

MALCATS

U-2L ✓ 73

DATE 04/26/73

VEHICLE 0207

TEST SIM FLT MAL OAT RUN /3 11

S1B S4B	IU	EST 19 33		
	IU	LDO 0735 ON	01.548	4860MODE CODE 3 IND
	IU	MDI 0728 ON	23.296	3428CHECKOUT LINE HALT IND
	IU	LDO 0728 ON	23.348	4853CHECKOUT LINE HALT IND
	IU	MDI 0728 OFF	23.520	3428CHECKOUT LINE HALT IND
	IU	LDO 0728 OFF	23.576	4853CHECKOUT LINE HALT IND
	IU	LDO 0735 OFF	23.588	4860MODE CODE 3 IND
	IU	LDO 0738 ON	23.588	4863MODE CODE 6 IND
	IU	LDO 0734 ON	23.656	4859MODE CODE 2 IND
	IU	LDO 0735 ON	23.656	4860MODE CODE 3 IND
	IU	LDO 0737 ON	23.656	4862MODE CODE 5 IND
	IU	LDO 0738 OFF	23.656	4863MODE CODE 6 IND
	IU	LDO 0735 OFF	25.684	4860MODE CODE 3 IND
	IU	LDO 0734 OFF	25.688	4859MODE CODE 2 IND
	IU	LDO 0737 OFF	25.688	4862MODE CODE 5 IND
	IU	MDI 0728 ON	26.072	3428CHECKOUT LINE HALT IND
	IU	LDO 0728 ON	26.124	4853CHECKOUT LINE HALT IND
	IU	MDI 0728 OFF	26.292	3428CHECKOUT LINE HALT IND
	IU	LDO 0728 OFF	26.352	4853CHECKOUT LINE HALT IND
	IU	LDO 0738 ON	26.360	4863MODE CODE 6 IND
	IU	LDO 0734 ON	26.428	4859MODE CODE 2 IND
	IU	LDO 0735 ON	26.428	4860MODE CODE 3 IND
	IU	LDO 0737 ON	26.428	4862MODE CODE 5 IND
	IU	LDO 0738 OFF	26.428	4863MODE CODE 6 IND
	IU	LDO 0735 OFF	28.452	4860MODE CODE 3 IND
	IU	LDO 0734 OFF	28.456	4859MODE CODE 2 IND
	IU	LDO 0737 OFF	28.456	4862MODE CODE 5 IND
S1B S4B	IU	EST 19 34		
	IU	MDI 0728 ON	26.556	3428CHECKOUT LINE HALT IND
	IU	LDO 0728 ON	26.608	4853CHECKOUT LINE HALT IND
	IU	MDI 0728 OFF	26.772	3428CHECKOUT LINE HALT IND
	IU	LDO 0728 OFF	26.828	4853CHECKOUT LINE HALT IND
	IU	LDO 0738 ON	26.828	4863MODE CODE 6 IND
	IU	LDO 0734 ON	26.912	4859MODE CODE 2 IND
	IU	LDO 0735 ON	26.912	4860MODE CODE 3 IND
	IU	LDO 0737 ON	26.912	4862MODE CODE 5 IND
	IU	LDO 0738 OFF	26.916	4863MODE CODE 6 IND
	IU	LDO 0735 OFF	28.940	4860MODE CODE 3 IND
	IU	LDO 0734 OFF	28.944	4859MODE CODE 2 IND
	IU	LDO 0737 OFF	28.944	4862MODE CODE 5 IND
S1B S4B	IU	EST 19 35		
	IU	LDI 2700 ON	00.472	0796COMMAND DECODER PWR ON
	IU	MDI 1854 ON	00.532	1647COMMAND DECODER PWR ON
	IU	MDI 0753 ON	00.540	3453COMD DECODER PWR ON
	IU	LDO 0753 ON	00.592	4877COMD DECODER PWR ON
S1B		LDI 2628 ON	01.904	1358SW SEL LVDA TEST

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	IU	MDO 0754 OFF 01.908 1877C SW SEL ALT ESE INPUT 2
	IU	MDO 0795 OFF 01.908 1907C SW SEL ALT INPUT NO1
	IU	MDI 0585 ON 01.908 3208SW SEL LVDA TEST
	IU	MDI 2311 ON 01.908 3298SW SEL LVDA TEST
S1B		LDO 0585 ON 01.988 5011SW SEL LVDA TEST
	IU	LDI 2709 OFF 05.792 0805SIM LIFTOFF OFF COMM
	IU	LDI 2708 ON 05.328 0804SIM LIFTOFF ON COMM
	IU	MDO 1858 ON 05.384 1651SIM LIFTOFF ON COMM
	IU	MDI 0580 ON 05.388 3170SIMULATION LIFTOFF
	IU	LDO 0580 ON 05.932 4363SIMULATION LIFTOFF
S1B		LDI 0967 ON 11.792 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 11.792 4136VJ0072-603
S1B		LDI 0966 ON 11.800 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 11.800 4137VJ0071-603
	IU	LDO 0737 ON 11.844 4862MODE CODE 5 IND
S1B		LDI 0967 OFF 11.852 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 11.852 4136VJ0072-603
S1B		DDA 2160 OFF 11.852 4137VJ0071-603
S1B		LDI 0966 OFF 11.856 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 11.968 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 11.968 4136VJ0072-603
S1B		LDI 0966 ON 11.976 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 11.976 4137VJ0071-603
S1B		LDI 0966 OFF 12.028 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 12.028 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 12.028 4136VJ0072-603
S1B		DDA 2160 OFF 12.028 4137VJ0071-603
S1B		LDI 0966 ON 12.052 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 12.052 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 12.052 4136VJ0072-603
S1B		DDA 2160 ON 12.052 4137VJ0071-603
S1B		LDI 0967 OFF 12.104 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 12.104 4136VJ0072-603
S1B		LDI 0967 ON 12.108 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 12.108 4136VJ0072-603
	IU	LDO 0737 OFF 12.108 4862MODE CODE 5 IND
S1B		DDA 2159 OFF 12.160 4136VJ0072-603
S1B		DDA 2160 OFF 12.160 4137VJ0071-603
S1B		LDI 0966 OFF 12.164 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 12.164 0422COMPT RESET PULSE NO. 2
S1B		LDI 0966 ON 13.252 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 13.252 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 13.252 4136VJ0072-603
S1B		DDA 2160 ON 13.252 4137VJ0071-603
	IU	LDO 0737 ON 13.300 4862MODE CODE 5 IND
S1B		LDI 0967 OFF 13.304 0422COMPT RESET PULSE NO. 2

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S1B		DDA 2159 OFF 13.304 4136VJ0072-603
S1B		LDI 0966 OFF 13.312 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 13.312 4137VJ0071-603
S1B		LDI 0966 ON 13.484 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 13.484 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 13.484 4136VJ0072-603
S1B		DDA 2160 ON 13.484 4137VJ0071-603
S1B		LDI 0967 OFF 13.536 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 13.536 4136VJ0072-603
S1B		LDI 0966 OFF 13.544 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 13.544 4137VJ0071-603
S1B		LDI 0966 ON 13.568 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 13.568 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 13.568 4136VJ0072-603
S1B		DDA 2160 ON 13.568 4137VJ0071-603
S1B		LDI 0967 OFF 13.620 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 13.620 4136VJ0072-603
S1B		LDI 0967 ON 13.624 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 13.624 4136VJ0072-603
	IU	LD0 0737 OFF 13.624 4862MODE CODE 5 IND
S1B		DDA 2159 OFF 13.668 4136VJ0072-603
S1B		DDA 2160 OFF 13.668 4137VJ0071-603
S1B		LDI 0966 OFF 13.672 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 13.672 0422COMPT RESET PULSE NO. 2
S1B		LDI 0967 ON 15.268 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 15.268 4136VJ0072-603
S1B		LDI 0966 ON 15.276 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 15.276 4137VJ0071-603
	IU	LD0 0737 ON 15.320 4862MODE CODE 5 IND
S1B		LDI 0966 OFF 15.328 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 15.328 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 15.328 4136VJ0072-603
S1B		DDA 2160 OFF 15.328 4137VJ0071-603
S1B		DDA 2159 ON 15.740 4136VJ0072-603
S1B		DDA 2160 ON 15.740 4137VJ0071-603
S1B		LDI 0966 ON 15.744 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 15.744 0422COMPT RESET PULSE NO. 2
S1B		LDI 0967 OFF 15.796 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 15.796 4136VJ0072-603
S1B		LDI 0966 OFF 15.804 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 15.804 4137VJ0071-603
S1B		LDI 0967 ON 15.816 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 15.816 4136VJ0072-603
S1B		LDI 0966 ON 15.824 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 15.824 4137VJ0071-603
	IU	LD0 0737 OFF 15.876 4862MODE CODE 5 IND

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TEST SIM FLT MAL OAT RUN /3 ||

S1B		LDI 0966 OFF 15.928 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 15.928 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 15.928 4136VJ0072-603
S1B		DDA 2160 OFF 15.928 4137VJ0071-603
S1B		LDI 0967 ON 17.392 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 17.392 4136VJ0072-603
S1B		LDI 0966 ON 17.400 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 17.400 4137VJ0071-603
	IU	LDO 0737 ON 17.444 4862MODE CODE 5 IND
S1B		LDI 0966 OFF 17.452 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 17.452 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 17.452 4136VJ0072-603
S1B		DDA 2160 OFF 17.452 4137VJ0071-603
S1B		LDI 0967 ON 17.708 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 17.708 4136VJ0072-603
S1B		LDI 0966 ON 17.716 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 17.716 4137VJ0071-603
S1B		LDI 0967 OFF 17.768 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 17.768 4136VJ0072-603
S1B		DDA 2160 OFF 17.768 4137VJ0071-603
S1B		LDI 0966 OFF 17.772 0421COMPT RESET PULSE NO. 1
S1B		LDI 0966 ON 17.792 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 17.792 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 17.792 4136VJ0072-603
S1B		DDA 2160 ON 17.792 4137VJ0071-603
S1B		LDI 0967 OFF 17.844 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 17.844 4136VJ0072-603
S1B		DDA 2159 ON 17.848 4136VJ0072-603
	IU	LDO 0737 OFF 17.848 4862MODE CODE 5 IND
S1B		LDI 0967 ON 17.852 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 17.892 4136VJ0072-603
S1B		LDI 0966 OFF 17.896 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 17.896 0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 OFF 17.896 4137VJ0071-603
S1B		LDI 0966 ON 28.048 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 28.048 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 28.048 4136VJ0072-603
S1B		DDA 2160 ON 28.048 4137VJ0071-603
	IU	LDO 0736 ON 28.096 4861MODE CODE 4 IND
	IU	LDO 0737 ON 28.096 4862MODE CODE 5 IND
S1B		LDI 0967 OFF 28.100 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 28.100 4136VJ0072-603
S1B		DDA 2160 OFF 28.108 4137VJ0071-603
S1B		LDI 0966 OFF 28.112 0421COMPT RESET PULSE NO. 1
S1B		LDI 0966 ON 29.464 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 29.464 0422COMPT RESET PULSE NO. 2

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S1B		DDA 2159 ON	29.464	4136VJ0072-603
S1B		DDA 2160 ON	29.464	4137VJ0071-603
	IU	LDO 0736 OFF	29.512	4861MODE CODE 4 IND
S1B		DDA 2159 OFF	29.524	4136VJ0072-603
S1B		DDA 2160 OFF	29.524	4137VJ0071-603
S1B		LDI 0966 OFF	29.528	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	29.528	0422COMPT RESET PULSE NO. 2
S1B		LDI 0966 ON	29.724	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	29.724	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	29.724	4136VJ0072-603
S1B		DDA 2160 ON	29.724	4137VJ0071-603
S1B		LDI 0967 OFF	29.776	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	29.776	4136VJ0072-603
S1B		LDI 0966 OFF	29.784	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	29.784	4137VJ0071-603
S1B		LDI 0966 ON	29.808	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	29.808	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	29.808	4136VJ0072-603
S1B		DDA 2160 ON	29.808	4137VJ0071-603
	IU	LDO 0736 ON	29.856	4861MODE CODE 4 IND
S1B		LDI 0967 OFF	29.860	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	29.860	4136VJ0072-603
S1B		LDI 0967 ON	29.864	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	29.864	4136VJ0072-603
S1B		LDI 0967 OFF	29.916	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	29.916	4136VJ0072-603
S1B		DDA 2160 OFF	29.916	4137VJ0071-603
S1B		LDI 0966 OFF	29.920	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	30.216	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	30.216	4136VJ0072-603
S1B		LDI 0966 ON	30.224	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	30.224	4137VJ0071-603
	IU	LDO 0736 OFF	30.268	4861MODE CODE 4 IND
S1B		LDI 0966 OFF	30.276	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	30.276	4137VJ0071-603
S1B		LDI 0967 OFF	30.284	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	30.284	4136VJ0072-603
S1B		LDI 0967 ON	30.380	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	30.380	4136VJ0072-603
S1B		DDA 2160 ON	30.388	4137VJ0071-603
S1B		LDI 0966 ON	30.392	0421COMPT RESET PULSE NO. 1
S1B		DDA 2159 OFF	30.440	4136VJ0072-603
S1B		LDI 0966 OFF	30.444	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	30.444	0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 OFF	30.444	4137VJ0071-603
S1B		LDI 0966 ON	30.456	0421COMPT RESET PULSE NO. 1

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S1B		LDI 0967 ON	30.456	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	30.456	4136VJ0072-603
S1B		DDA 2160 ON	30.456	4137VJ0071-603
S1B		LDI 0967 OFF	30.508	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	30.508	4136VJ0072-603
S1B		DDA 2160 OFF	30.516	4137VJ0071-603
S1B		LDI 0966 OFF	30.520	0421COMPT RESET PULSE NO. 1
	IU	LDO 0736 ON	30.544	4861MODE CODE 4 IND
S1B		LDI 0967 ON	30.548	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	30.548	4136VJ0072-603
S1B		LDI 0966 ON	30.556	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	30.556	4137VJ0071-603
S1B		LDI 0966 OFF	30.608	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	30.608	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	30.608	4136VJ0072-603
S1B		DDA 2160 OFF	30.608	4137VJ0071-603
S1B		LDI 0967 ON	30.840	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	30.840	4136VJ0072-603
S1B		LDI 0966 ON	30.848	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	30.848	4137VJ0071-603
	IU	LDO 0734 ON	30.892	4859MODE CODE 2 IND
	IU	LDO 0736 OFF	30.892	4861MODE CODE 4 IND
S1B		LDI 0966 OFF	30.900	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	30.900	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	30.900	4136VJ0072-603
S1B		DDA 2160 OFF	30.900	4137VJ0071-603
	IU	LDO 0736 ON	30.964	4861MODE CODE 4 IND
	IU	LDO 0734 OFF	30.968	4859MODE CODE 2 IND
S1B		LDI 0966 ON	30.972	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	30.972	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	30.972	4136VJ0072-603
S1B		DDA 2160 ON	30.972	4137VJ0071-603
S1B		LDI 0967 OFF	31.024	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	31.024	4136VJ0072-603
S1B		DDA 2160 OFF	31.032	4137VJ0071-603
S1B		LDI 0966 OFF	31.036	0421COMPT RESET PULSE NO. 1
S1B		LDI 0966 ON	31.864	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	31.864	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	31.864	4136VJ0072-603
S1B		DDA 2160 ON	31.864	4137VJ0071-603
	IU	LDO 0736 OFF	31.916	4861MODE CODE 4 IND
S1B		LDI 0967 OFF	31.924	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	31.924	4136VJ0072-603
S1B		DDA 2160 OFF	31.924	4137VJ0071-603
S1B		LDI 0966 OFF	31.928	0421COMPT RESET PULSE NO. 1
S1B		LDI 0966 ON	32.040	0421COMPT RESET PULSE NO. 1

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S1B		LDI 0967 ON	32.040	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	32.040	4136VJ0072-603
S1B		DDA 2160 ON	32.040	4137VJ0071-603
S1B		LDI 0967 OFF	32.092	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	32.092	4136VJ0072-603
S1B		LDI 0966 OFF	32.100	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	32.100	4137VJ0071-603
S1B		LDI 0967 ON	32.116	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	32.116	4136VJ0072-603
S1B		LDI 0966 ON	32.124	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	32.124	4137VJ0071-603
S1B		LDI 0966 OFF	32.176	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	32.176	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	32.176	4136VJ0072-603
S1B		DDA 2160 OFF	32.176	4137VJ0071-603
	IU	LDO 0736 ON	32.184	4861MODE CODE 4 IND
S1B		LDI 0967 ON	32.188	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	32.188	4136VJ0072-603
S1B		DDA 2160 ON	32.188	4137VJ0071-603
S1B		LDI 0966 ON	32.192	0421COMPT RESET PULSE NO. 1
S1B		DDA 2159 OFF	32.240	4136VJ0072-603
S1B		LDI 0967 OFF	32.244	0422COMPT RESET PULSE NO. 2
S1B		LDI 0966 OFF	32.252	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	32.252	4137VJ0071-603
S1B		LDI 0966 ON	34.348	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	34.348	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	34.348	4136VJ0072-603
S1B		DDA 2160 ON	34.348	4137VJ0071-603
S1B		LDI 0967 OFF	34.400	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	34.400	4136VJ0072-603
	IU	LDO 0736 OFF	34.400	4861MODE CODE 4 IND
S1B		DDA 2159 ON	34.404	4136VJ0072-603
S1B		LDI 0967 ON	34.408	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	34.456	4136VJ0072-603
S1B		LDI 0966 OFF	34.460	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	34.460	0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 OFF	34.460	4137VJ0071-603
S1B		DDA 2159 ON	34.512	4136VJ0072-603
S1B		LDI 0967 ON	34.516	0422COMPT RESET PULSE NO. 2
S1B		LDI 0966 ON	34.524	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	34.524	4137VJ0071-603
S1B		LDI 0966 OFF	34.576	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	34.576	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	34.576	4136VJ0072-603
S1B		DDA 2160 OFF	34.576	4137VJ0071-603
S1B		LDI 0967 ON	34.588	0422COMPT RESET PULSE NO. 2

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S1B		DDA 2159 ON	34.588	4136VJ0072-603	
S1B		DDA 2160 ON	34.596	4137VJ0071-603	
S1B		LDI 0966 ON	34.600	0421COMPT RESET PULSE NO. 1	
S1B		DDA 2159 OFF	34.648	4136VJ0072-603	
S1B		DDA 2160 OFF	34.648	4137VJ0071-603	
S1B		LDI 0966 OFF	34.652	0421COMPT RESET PULSE NO. 1	
S1B		LDI 0967 OFF	34.652	0422COMPT RESET PULSE NO. 2	
	IU	LDO 0736 ON	34.676	4861MODE CODE 4 IND	
S1B		LDI 0967 ON	34.680	0422COMPT RESET PULSE NO. 2	
S1B		DDA 2159 ON	34.680	4136VJ0072-603	
S1B		LDI 0966 ON	34.688	0421COMPT RESET PULSE NO. 1	
S1B		DDA 2160 ON	34.688	4137VJ0071-603	
S1B		LDI 0967 OFF	34.740	0422COMPT RESET PULSE NO. 2	
S1B		DDA 2159 OFF	34.740	4136VJ0072-603	
S1B		DDA 2160 OFF	34.740	4137VJ0071-603	
S1B		LDI 0966 OFF	34.744	0421COMPT RESET PULSE NO. 1	
S1B		LDI 0967 ON	34.972	0422COMPT RESET PULSE NO. 2	
S1B		DDA 2159 ON	34.972	4136VJ0072-603	
S1B		LDI 0966 ON	34.980	0421COMPT RESET PULSE NO. 1	
S1B		DDA 2160 ON	34.980	4137VJ0071-603	
	IU	LDO 0734 ON	35.028	4859MODE CODE 2 IND	
	IU	LDO 0736 OFF	35.028	4861MODE CODE 4 IND	
S1B		LDI 0967 OFF	35.032	0422COMPT RESET PULSE NO. 2	
S1B		DDA 2159 OFF	35.032	4136VJ0072-603	
S1B		DDA 2160 OFF	35.032	4137VJ0071-603	
S1B		LDI 0966 OFF	35.036	0421COMPT RESET PULSE NO. 1	
S1B		LDI 0966 ON	35.040	0421COMPT RESET PULSE NO. 1	
S1B		LDI 0967 ON	35.040	0422COMPT RESET PULSE NO. 2	
S1B		DDA 2159 ON	35.040	4136VJ0072-603	
S1B		DDA 2160 ON	35.040	4137VJ0071-603	
S1B		LDI 0966 OFF	35.092	0421COMPT RESET PULSE NO. 1	
S1B		LDI 0967 OFF	35.092	0422COMPT RESET PULSE NO. 2	
S1B		DDA 2159 OFF	35.092	4136VJ0072-603	
S1B		DDA 2160 OFF	35.092	4137VJ0071-603	
	IU	LDO 0736 ON	35.116	4861MODE CODE 4 IND	
S1B		DDA 2159 ON	35.120	4136VJ0072-603	
	IU	LDO 0734 OFF	35.120	4859MODE CODE 2 IND	
S1B		LDI 0966 ON	35.124	0421COMPT RESET PULSE NO. 1	
S1B		LDI 0967 ON	35.124	0422COMPT RESET PULSE NO. 2	
S1B		DDA 2160 ON	35.124	4137VJ0071-603	
S1B		LDI 0967 OFF	35.176	0422COMPT RESET PULSE NO. 2	
S1B		DDA 2159 OFF	35.176	4136VJ0072-603	
S1B		LDI 0966 OFF	35.184	0421COMPT RESET PULSE NO. 1	
S1B		DDA 2160 OFF	35.184	4137VJ0071-603	
S1B		DDA 2159 ON	35.220	4136VJ0072-603	
S1B		DDA 2160 ON	35.220	4137VJ0071-603	

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S1B		LDI 0966 ON	35.224	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	35.224	0422COMPT RESET PULSE NO. 2
S1B		LDI 0967 OFF	35.276	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	35.276	4136VJ0072-603
S1B		LDI 0966 OFF	35.284	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	35.284	4137VJ0071-603
S1B		LDI 0966 ON	35.856	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	35.856	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	35.856	4136VJ0072-603
S1B		DDA 2160 ON	35.856	4137VJ0071-603
	IU	LDO 0736 OFF	35.904	4861MODE CODE 4 IND
S1B		LDI 0966 OFF	35.916	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	35.916	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	35.916	4136VJ0072-603
S1B		DDA 2160 OFF	35.916	4137VJ0071-603
S1B		LDI 0967 ON	35.980	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	35.980	4136VJ0072-603
S1B		LDI 0966 ON	35.988	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	35.988	4137VJ0071-603
S1B		DDA 2160 OFF	36.040	4137VJ0071-603
S1B		LDI 0966 OFF	36.044	0421COMPT RESET PULSE NO. 1
S1B		DDA 2159 OFF	36.064	4136VJ0072-603
S1B		LDI 0967 OFF	36.068	0422COMPT RESET PULSE NO. 2
	IU	LDO 0736 ON	36.092	4861MODE CODE 4 IND
S1B		DDA 2159 ON	36.104	4136VJ0072-603
S1B		DDA 2160 ON	36.104	4137VJ0071-603
S1B		LDI 0966 ON	36.108	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	36.108	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	36.156	4136VJ0072-603
S1B		LDI 0967 OFF	36.160	0422COMPT RESET PULSE NO. 2
S1B		LDI 0966 OFF	36.168	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	36.168	4137VJ0071-603
S1B		LDI 0967 ON	39.564	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	39.564	4136VJ0072-603
S1B		LDI 0966 ON	39.572	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	39.572	4137VJ0071-603
	IU	LDO 0736 OFF	39.616	4861MODE CODE 4 IND
S1B		DDA 2160 OFF	39.648	4137VJ0071-603
S1B		LDI 0966 OFF	39.652	0421COMPT RESET PULSE NO. 1
S1B		DDA 2159 OFF	39.664	4136VJ0072-603
S1B		LDI 0967 OFF	39.668	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	39.720	4136VJ0072-603
S1B		LDI 0967 ON	39.724	0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 ON	39.728	4137VJ0071-603
S1B		LDI 0966 ON	39.732	0421COMPT RESET PULSE NO. 1
S1B		LDI 0966 OFF	39.816	0421COMPT RESET PULSE NO. 1

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11	DDA 2160 OFF 39.816 4137VJ0071-603
11	LDI 0967 OFF 39.824 0422COMPT RESET PULSE NO. 2
11	DDA 2159 OFF 39.824 4136VJ0072-603
11	DDA 2159 ON 39.836 4136VJ0072-603
11	LDI 0966 ON 39.840 0421COMPT RESET PULSE NO. 1
11	LDI 0967 ON 39.840 0422COMPT RESET PULSE NO. 2
S1B	DDA 2160 ON 39.840 4137VJ0071-603
S1B	LDI 0967 OFF 39.892 0422COMPT RESET PULSE NO. 2
S1B	DDA 2159 OFF 39.892 4136VJ0072-603
11	LDI 0966 OFF 39.900 0421COMPT RESET PULSE NO. 1
11	DDA 2160 OFF 39.900 4137VJ0071-603
11	LDO 0736 ON 39.916 4861MODE CODE 4 IND
11	DDA 2159 ON 39.928 4136VJ0072-603
11	LDI 0967 ON 39.932 0422COMPT RESET PULSE NO. 2
11	LDI 0966 ON 39.940 0421COMPT RESET PULSE NO. 1
11	DDA 2160 ON 39.940 4137VJ0071-603
11	LDI 0966 OFF 39.992 0421COMPT RESET PULSE NO. 1
11	LDI 0967 OFF 39.992 0422COMPT RESET PULSE NO. 2
11	DDA 2159 OFF 39.992 4136VJ0072-603
11	DDA 2160 OFF 39.992 4137VJ0071-603
S1B	LDI 0966 ON 40.204 0421COMPT RESET PULSE NO. 1
11	LDI 0967 ON 40.204 0422COMPT RESET PULSE NO. 2
11	DDA 2159 ON 40.204 4136VJ0072-603
11	DDA 2160 ON 40.204 4137VJ0071-603
11	LDO 0734 ON 40.252 4859MODE CODE 2 IND
11	LDO 0736 OFF 40.256 4861MODE CODE 4 IND
S1B	LDI 0966 OFF 40.284 0421COMPT RESET PULSE NO. 1
S1B	DDA 2160 OFF 40.284 4137VJ0071-603
S1B	LDI 0967 OFF 40.300 0422COMPT RESET PULSE NO. 2
S1B	DDA 2159 OFF 40.300 4136VJ0072-603
S1B	LDI 0967 ON 40.348 0422COMPT RESET PULSE NO. 2
S1B	DDA 2159 ON 40.348 4136VJ0072-603
11	LDO 0734 OFF 40.348 4859MODE CODE 2 IND
11	LDO 0736 ON 40.348 4861MODE CODE 4 IND
S1B	LDI 0966 ON 40.356 0421COMPT RESET PULSE NO. 1
S1B	DDA 2160 ON 40.356 4137VJ0071-603
S1B	LDI 0966 OFF 40.408 0421COMPT RESET PULSE NO. 1
S1B	DDA 2160 OFF 40.408 4137VJ0071-603
S1B	LDI 0967 OFF 40.416 0422COMPT RESET PULSE NO. 2
S1B	DDA 2159 OFF 40.416 4136VJ0072-603
S1B	LDI 0966 ON 40.464 0421COMPT RESET PULSE NO. 1
11	LDI 0967 ON 40.464 0422COMPT RESET PULSE NO. 2
11	DDA 2159 ON 40.464 4136VJ0072-603
11	DDA 2160 ON 40.464 4137VJ0071-603
11	LDI 0967 OFF 40.516 0422COMPT RESET PULSE NO. 2
11	DDA 2159 OFF 40.516 4136VJ0072-603

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11	LDI 0966 OFF 40.524 0421COMPT RESET PULSE NO. 1
11	DDA 2159 OFF 40.524 4137VJ0071-603
11	LDI 0966 ON 41.096 0421COMPT RESET PULSE NO. 1
11	LDI 0967 ON 41.096 0422COMPT RESET PULSE NO. 2
11	DDA 2159 ON 41.096 4136VJ0072-603
11	DDA 2160 ON 41.096 4137VJ0071-603
11	LDI 0967 OFF 41.148 0422COMPT RESET PULSE NO. 2
11	DDA 2159 OFF 41.148 4136VJ0072-603
11	LDI 0736 OFF 41.148 4861MODE CODE 4 IND
11	LDI 0967 ON 41.156 0422COMPT RESET PULSE NO. 2
11	DDA 2159 ON 41.156 4136VJ0072-603
11	LDI 0966 OFF 41.184 0421COMPT RESET PULSE NO. 1
11	DDA 2160 OFF 41.184 4137VJ0071-603
11	DDA 2159 OFF 41.184 4136VJ0072-603
11	LDI 0967 OFF 41.192 0422COMPT RESET PULSE NO. 2
11	LDI 0967 ON 41.248 0422COMPT RESET PULSE NO. 2
11	DDA 2159 ON 41.248 4136VJ0072-603
11	LDI 0966 ON 41.256 0421COMPT RESET PULSE NO. 1
11	DDA 2160 ON 41.256 4137VJ0071-603
11	LDI 0966 OFF 41.308 0421COMPT RESET PULSE NO. 1
11	LDI 0967 OFF 41.308 0422COMPT RESET PULSE NO. 2
11	DDA 2159 OFF 41.308 4136VJ0072-603
11	DDA 2160 OFF 41.308 4137VJ0071-603
11	DDA 2159 ON 41.328 4136VJ0072-603
11	DDA 2160 ON 41.328 4137VJ0071-603
11	LDI 0966 ON 41.332 0421COMPT RESET PULSE NO. 1
11	LDI 0967 ON 41.332 0422COMPT RESET PULSE NO. 2
11	DDA 2159 OFF 41.380 4136VJ0072-603
11	LDI 0967 OFF 41.384 0422COMPT RESET PULSE NO. 2
11	LDI 0736 ON 41.384 4861MODE CODE 4 IND
11	LDI 0966 OFF 41.392 0421COMPT RESET PULSE NO. 1
11	DDA 2159 OFF 41.392 4136VJ0072-603
11	LDI 0966 ON 41.396 0421COMPT RESET PULSE NO. 1
11	LDI 0967 ON 41.396 0422COMPT RESET PULSE NO. 2
11	DDA 2159 ON 41.396 4136VJ0072-603
11	DDA 2160 ON 41.396 4137VJ0071-603
11	LDI 0967 OFF 41.448 0422COMPT RESET PULSE NO. 2
11	DDA 2159 OFF 41.448 4136VJ0072-603
11	DDA 2160 OFF 41.456 4137VJ0071-603
11	LDI 0966 OFF 41.460 0421COMPT RESET PULSE NO. 1
11	DDA 2159 ON 49.976 4136VJ0072-603
11	LDI 0967 ON 49.988 0422COMPT RESET PULSE NO. 2
11	LDI 0966 ON 49.988 0421COMPT RESET PULSE NO. 1
11	DDA 2160 ON 49.988 4137VJ0071-603
11	LDI 0736 OFF 50.132 4861MODE CODE 4 IND
11	LDI 0966 OFF 50.132 0421COMPT RESET PULSE NO. 1

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S18	LDI 0967 OFF 50.040 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 50.040 4136VJ0072-603
S18	DDA 2160 OFF 50.040 4137VJ0071-603
S18	LDI 0966 ON 50.044 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 50.144 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 50.044 4136VJ0072-603
S18	DDA 2160 ON 50.044 4137VJ0071-603
S18	LDI 0967 OFF 50.088 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 50.088 4136VJ0072-603
S18	DDA 2160 OFF 50.088 4137VJ0071-603
S18	LDI 0966 OFF 50.092 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 OFF 50.192 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 50.152 4136VJ0072-603
S18	DDA 2160 ON 50.152 4137VJ0071-603
S18	LDI 0966 ON 50.164 0421COMPT RESET PULSE NO. 1
S18	DDA 2159 OFF 50.212 4136VJ0072-603
S18	LDI 0966 OFF 50.216 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 OFF 50.216 0422COMPT RESET PULSE NO. 2
S18	DDA 2160 OFF 50.216 4137VJ0071-603
S18	LDI 0966 ON 50.236 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 50.236 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 50.236 4136VJ0072-603
S18	DDA 2160 ON 50.236 4137VJ0071-603
S18	LDI 0967 OFF 50.288 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 50.288 4136VJ0072-603
S18	DDA 2160 OFF 50.288 4137VJ0071-603
S18	LDI 0966 OFF 50.300 0421COMPT RESET PULSE NO. 1
IU	LDO 0736 ON 50.320 4861MODE CODE 4 IND
S18	LDI 0966 ON 50.328 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 50.328 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 50.328 4136VJ0072-603
S18	DDA 2160 ON 50.328 4137VJ0071-603
S18	LDI 0967 OFF 50.380 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 50.380 4136VJ0072-603
S18	DDA 2160 OFF 50.380 4137VJ0071-603
S18	LDI 0966 OFF 50.392 0421COMPT RESET PULSE NO. 1
S18	LDI 0966 ON 50.704 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 50.704 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 50.704 4136VJ0072-603
S18	DDA 2160 ON 50.704 4137VJ0071-603
IU	LDO 0734 ON 50.752 4859MODE CODE 2 IND
IU	LDO 0736 OFF 50.752 4861MODE CODE 4 IND
S18	LDI 0967 OFF 50.756 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 50.756 4136VJ0072-603
S18	LDI 0967 ON 50.760 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 50.760 4136VJ0072-603

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S1B		DDA	2159	OFF	50.812	4136VJ0072-603	
S1B		LDI	0966	OFF	50.816	0421COMPT RESET PULSE NO. 1	
S1B		LDI	0967	OFF	50.816	0422COMPT RESET PULSE NO. 2	
S1B		DDA	2160	OFF	50.816	4137VJ0071-603	
S1B		LDI	0967	ON	50.844	0422COMPT RESET PULSE NO. 2	
S1B		DDA	2159	ON	50.844	4136VJ0072-603	
	IU	LDO	0734	OFF	50.844	4859MODE CODE 2 IND	
	IU	LDO	0736	ON	50.844	4861MODE CODE 4 IND	
S1B		LDI	0966	ON	50.852	0421COMPT RESET PULSE NO. 1	
S1B		DDA	2160	ON	50.852	4137VJ0071-603	
S1B		DDA	2159	OFF	50.804	4136VJ0072-603	
S1B		DDA	2160	OFF	50.804	4137VJ0071-603	
S1B		LDI	0966	OFF	50.908	0421COMPT RESET PULSE NO. 1	
S1B		LDI	0967	OFF	50.908	0422COMPT RESET PULSE NO. 2	
S1B		LDI	0967	ON	50.920	0422COMPT RESET PULSE NO. 2	
S1B		LDI	0966	ON	50.920	0421COMPT RESET PULSE NO. 1	
S1B		DDA	2160	ON	50.928	4137VJ0071-603	
S1B		LDI	0966	OFF	50.980	0421COMPT RESET PULSE NO. 1	
S1B		LDI	0967	OFF	50.980	0422COMPT RESET PULSE NO. 2	
S1B		DDA	2159	OFF	50.980	4136VJ0072-603	
S1B		DDA	2160	OFF	50.980	4137VJ0071-603	
S1B		LDI	0967	ON	51.596	0422COMPT RESET PULSE NO. 2	
S1B		DDA	2159	ON	51.596	4136VJ0072-603	
S1B		LDI	0966	ON	51.604	0421COMPT RESET PULSE NO. 1	
S1B		DDA	2160	ON	51.604	4137VJ0071-603	
	IU	LDO	0736	OFF	51.644	4861MODE CODE 4 IND	
S1B		LDI	0966	OFF	51.656	0421COMPT RESET PULSE NO. 1	
S1B		LDI	0967	OFF	51.656	0422COMPT RESET PULSE NO. 2	
S1B		DDA	2159	OFF	51.656	4136VJ0072-603	
S1B		DDA	2160	OFF	51.656	4137VJ0071-603	
S1B		LDI	0966	ON	51.728	0421COMPT RESET PULSE NO. 1	
S1B		LDI	0967	ON	51.728	0422COMPT RESET PULSE NO. 2	
S1B		DDA	2159	ON	51.728	4136VJ0072-603	
S1B		DDA	2160	ON	51.728	4137VJ0071-603	
S1B		LDI	0967	OFF	51.780	0422COMPT RESET PULSE NO. 2	
S1B		DDA	2159	OFF	51.780	4136VJ0072-603	
S1B		LDI	0966	OFF	51.788	0421COMPT RESET PULSE NO. 1	
S1B		DDA	2160	OFF	51.788	4137VJ0071-603	
S1B		LDI	0967	ON	51.812	0422COMPT RESET PULSE NO. 2	
S1B		DDA	2159	ON	51.812	4136VJ0072-603	
S1B		LDI	0966	ON	51.820	0421COMPT RESET PULSE NO. 1	
S1B		DDA	2160	ON	51.820	4137VJ0071-603	
S1B		LDI	0966	OFF	51.872	0421COMPT RESET PULSE NO. 1	
S1B		LDI	0967	OFF	51.872	0422COMPT RESET PULSE NO. 2	
S1B		DDA	2159	OFF	51.872	4136VJ0072-603	

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S1B		DDA 2160 OFF	51.872	4137VJ0071-603
	IU	LDO 0736 ON	51.900	4861MODE CODE 4 IND
S1B		LDI 0966 ON	51.912	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	51.912	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	51.912	4136VJ0072-603
S1B		DDA 2160 ON	51.912	4137VJ0071-603
S1B		LDI 0967 OFF	51.964	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	51.964	4136VJ0072-603
S1B		LDI 0966 OFF	51.972	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	51.972	4137VJ0071-603
S1B		LDI 0966 ON	54.736	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	54.736	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	54.736	4136VJ0072-603
S1B		DDA 2160 ON	54.736	4137VJ0071-603
	IU	LDO 0736 OFF	54.784	4861MODE CODE 4 IND
S1B		LDI 0967 OFF	54.788	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	54.788	4136VJ0072-603
S1B		LDI 0966 OFF	54.796	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	54.796	4137VJ0071-603
S1B		LDI 0967 ON	54.812	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	54.812	4136VJ0072-603
S1B		LDI 0966 ON	54.820	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	54.820	4137VJ0071-603
S1B		LDI 0966 OFF	54.872	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	54.872	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	54.872	4136VJ0072-603
S1B		DDA 2160 OFF	54.872	4137VJ0071-603
S1B		LDI 0966 ON	54.876	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	54.876	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	54.876	4136VJ0072-603
S1B		DDA 2160 ON	54.876	4137VJ0071-603
S1B		DDA 2159 OFF	54.928	4136VJ0072-603
S1B		LDI 0967 OFF	54.932	0422COMPT RESET PULSE NO. 2
S1B		LDI 0966 OFF	54.940	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	54.940	4137VJ0071-603
S1B		LDI 0967 ON	54.952	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	54.952	4136VJ0072-603
S1B		LDI 0966 ON	54.960	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	54.960	4137VJ0071-603
11		LDI 0967 OFF	55.012	0422COMPT RESET PULSE NO. 2
11		DDA 2159 OFF	55.012	4136VJ0072-603
11		DDA 2160 OFF	55.012	4137VJ0071-603
11		LDI 0966 OFF	55.016	0421COMPT RESET PULSE NO. 1
	IU	LDO 0736 ON	55.052	4861MODE CODE 4 IND
11		LDI 0966 ON	55.060	0421COMPT RESET PULSE NO. 1
11		LDI 0967 ON	55.060	0422COMPT RESET PULSE NO. 2

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S18	DDA	2159	ON	55.060	4136VJ0072-603	
S18	DDA	2160	ON	55.060	4137VJ0071-603	
S18	LDI	0967	OFF	55.112	0422COMPT RESET PULSE NO. 2	
S18	DDA	2159	OFF	55.112	4136VJ0072-603	
S18	DDA	2160	OFF	55.120	4137VJ0071-603	
S18	LDI	0966	OFF	55.124	0421COMPT RESET PULSE NO. 1	
S18	LDI	0966	ON	56.076	0421COMPT RESET PULSE NO. 1	
S18	LDI	0967	ON	56.076	0422COMPT RESET PULSE NO. 2	
S18	DDA	2159	ON	56.076	4136VJ0072-603	
S18	DDA	2160	ON	56.076	4137VJ0071-603	
S18	DDA	2159	OFF	56.128	4136VJ0072-603	
	IU	LDO	0734	ON	56.128	4859MODE CODE 2 IND
	IU	LDO	0736	OFF	56.128	4861MODE CODE 4 IND
S18	LDI	0967	OFF	56.132	0422COMPT RESET PULSE NO. 2	
S18	LDI	0967	ON	56.136	0422COMPT RESET PULSE NO. 2	
S18	DDA	2159	ON	56.136	4136VJ0072-603	
S18	LDI	0966	OFF	56.164	0421COMPT RESET PULSE NO. 1	
S18	DDA	2160	OFF	56.164	4137VJ0071-603	
S18	LDI	0967	OFF	56.172	0422COMPT RESET PULSE NO. 2	
S18	DDA	2159	OFF	56.172	4136VJ0072-603	
	IU	LDO	0734	OFF	56.224	4859MODE CODE 2 IND
	IU	LDO	0736	ON	56.224	4861MODE CODE 4 IND
S18	LDI	0966	ON	56.228	0421COMPT RESET PULSE NO. 1	
S18	LDI	0967	ON	56.228	0422COMPT RESET PULSE NO. 2	
S18	DDA	2159	ON	56.228	4136VJ0072-603	
S18	DDA	2160	ON	56.228	4137VJ0071-603	
S18	LDI	0966	OFF	56.288	0421COMPT RESET PULSE NO. 1	
S18	DDA	2160	OFF	56.288	4137VJ0071-603	
S18	LDI	0967	OFF	56.296	0422COMPT RESET PULSE NO. 2	
S18	DDA	2159	OFF	56.296	4136VJ0072-603	
S18	LDI	0966	ON	56.336	0421COMPT RESET PULSE NO. 1	
S18	LDI	0967	ON	56.336	0422COMPT RESET PULSE NO. 2	
S18	DDA	2159	ON	56.336	4136VJ0072-603	
S18	DDA	2160	ON	56.336	4137VJ0071-603	
S18	LDI	0966	OFF	56.396	0421COMPT RESET PULSE NO. 1	
S18	LDI	0967	OFF	56.396	0422COMPT RESET PULSE NO. 2	
S18	DDA	2159	OFF	56.396	4136VJ0072-603	
S18	DDA	2160	OFF	56.396	4137VJ0071-603	
S18	LDI	0966	ON	56.968	0421COMPT RESET PULSE NO. 1	
S18	LDI	0967	ON	56.968	0422COMPT RESET PULSE NO. 2	
S18	DDA	2159	ON	56.968	4136VJ0072-603	
S18	DDA	2160	ON	56.968	4137VJ0071-603	
	IU	LDO	0736	OFF	57.024	4861MODE CODE 4 IND
S18	LDI	0966	OFF	57.056	0421COMPT RESET PULSE NO. 1	
S18	DDA	2160	OFF	57.056	4137VJ0071-603	
S18	LDI	0967	OFF	57.064	0422COMPT RESET PULSE NO. 2	

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S1B	DDA	2159	OFF	57.064	4136VJ0072-603	
S1B	LDI	0966	ON	57.128	0421COMPT RESET PULSE NO. 1	
S1B	LDI	0967	ON	57.128	0422COMPT RESET PULSE NO. 2	
S1B	DDA	2159	ON	57.128	4136VJ0072-603	
S1B	DDA	2160	ON	57.128	4137VJ0071-603	
S1B	LDI	0967	OFF	57.180	0422COMPT RESET PULSE NO. 2	
S1B	DDA	2159	OFF	57.180	4136VJ0072-603	
S1B	LDI	0966	OFF	57.188	0421COMPT RESET PULSE NO. 1	
S1B	DDA	2160	OFF	57.188	4137VJ0071-603	
S1B	DDA	2159	ON	57.200	4136VJ0072-603	
S1B	LDI	0967	ON	57.204	0422COMPT RESET PULSE NO. 2	
S1B	LDI	0966	ON	57.212	0421COMPT RESET PULSE NO. 1	
S1B	DDA	2160	ON	57.212	4137VJ0071-603	
S1B	LDI	0967	OFF	57.264	0422COMPT RESET PULSE NO. 1	
S1B	LDI	0967	OFF	57.264	0422COMPT RESET PULSE NO. 2	
S1B	DDA	2160	OFF	57.264	4137VJ0071-603	
S1B	LDI	0736	ON	57.264	4861MODE CODE 4 IND	
S1B	LDI	0967	ON	57.268	0422COMPT RESET PULSE NO. 2	
S1B	DDA	2159	ON	57.268	4136VJ0072-603	
S1B	LDI	0966	ON	57.276	0421COMPT RESET PULSE NO. 1	
S1B	DDA	2160	ON	57.276	4137VJ0071-603	
S1B	DDA	2159	OFF	57.328	4136VJ0072-603	
S1B	DDA	2160	OFF	57.328	4137VJ0071-603	
S1B	LDI	0966	OFF	57.332	0421COMPT RESET PULSE NO. 1	
S1B	LDI	0967	OFF	57.332	0422COMPT RESET PULSE NO. 2	
S1B S4B IU	EST	19	36			
S1B	LDI	0966	ON	04.944	0421COMPT RESET PULSE NO. 1	
S1B	LDI	0967	ON	04.944	0422COMPT RESET PULSE NO. 2	
S1B	DDA	2159	ON	04.944	4136VJ0072-603	
S1B	DDA	2160	ON	04.944	4137VJ0071-603	
S1B	LDI	0967	OFF	04.996	0422COMPT RESET PULSE NO. 2	
S1B	DDA	2159	OFF	04.996	4136VJ0072-603	
S1B	LDI	0736	OFF	04.996	4861MODE CODE 4 IND	
S1B	LDI	0967	ON	05.000	0422COMPT RESET PULSE NO. 2	
S1B	DDA	2159	ON	05.000	4136VJ0072-603	
S1B	LDI	0967	OFF	05.052	0422COMPT RESET PULSE NO. 2	
S1B	DDA	2159	OFF	05.052	4136VJ0072-603	
S1B	DDA	2160	OFF	05.052	4137VJ0071-603	
S1B	LDI	0966	OFF	05.056	0421COMPT RESET PULSE NO. 1	
S1B	DDA	2159	ON	05.116	4136VJ0072-603	
S1B	DDA	2160	ON	05.116	4137VJ0071-603	
S1B	LDI	0966	ON	05.120	0421COMPT RESET PULSE NO. 1	
S1B	LDI	0967	ON	05.120	0422COMPT RESET PULSE NO. 2	
S1B	DDA	2159	OFF	05.168	4136VJ0072-603	
S1B	LDI	0967	OFF	05.172	0422COMPT RESET PULSE NO. 2	

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S1B		LDI 0966 OFF 05.180 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 05.180 4137VJ0071-603
S1B		LDI 0967 ON 05.184 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 05.184 4136VJ0072-603
S1B		LDI 0966 ON 05.192 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 05.192 4137VJ0071-603
S1B		LDI 0967 OFF 05.244 0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 OFF 05.244 4137VJ0071-603
S1B		LDI 0966 OFF 05.248 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 05.276 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 05.276 4136VJ0072-603
	IU	LDO 0736 ON 05.276 4861MODE CODE 4 IND
S1B		LDI 0966 ON 05.284 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 05.284 4137VJ0071-603
S1B		LDI 0966 OFF 05.336 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 05.336 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 05.336 4136VJ0072-603
S1B		DDA 2160 OFF 05.336 4137VJ0071-603
S1B		LDI 0967 ON 05.676 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 05.676 4136VJ0072-603
S1B		LDI 0966 ON 05.684 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 05.684 4137VJ0071-603
	IU	LDO 0734 ON 05.724 4859MODE CODE 2 IND
	IU	LDO 0736 OFF 05.728 4861MODE CODE 4 IND
S1B		DDA 2160 OFF 05.760 4137VJ0071-603
S1B		LDI 0966 OFF 05.764 0421COMPT RESET PULSE NO. 1
S1B		DDA 2159 OFF 05.768 4136VJ0072-603
S1B		LDI 0967 OFF 05.772 0422COMPT RESET PULSE NO. 2
	IU	LDO 0736 ON 05.820 4861MODE CODE 4 IND
	IU	LDO 0734 OFF 05.824 4859MODE CODE 2 IND
S1B		LDI 0966 ON 05.852 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 05.852 0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 ON 05.852 4137VJ0071-603
S1B		LDI 0967 OFF 05.904 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 05.904 4136VJ0072-603
S1B		LDI 0967 ON 05.908 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 05.908 4136VJ0072-603
S1B		DDA 2159 OFF 05.960 4136VJ0072-603
S1B		DDA 2160 OFF 05.960 4137VJ0071-603
S1B		LDI 0966 OFF 05.964 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 05.964 0422COMPT RESET PULSE NO. 2
S1B		LDI 0967 ON 06.576 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 06.576 4136VJ0072-603
S1B		LDI 0966 ON 06.584 0421COMPT RESET PULSE NO. 1

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1		DDA 2160 ON 06.628 4137VJ0071-603
	IU	LDO 0736 OFF 06.628 4861MODE CODE 4 IND
S1B		LDI 0966 OFF 06.636 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 06.636 4137VJ0071-603
S1B		LDI 0967 OFF 06.644 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 06.644 4136VJ0072-603
S1B		DDA 2159 ON 06.724 4136VJ0072-603
S1B		DDA 2160 ON 06.724 4137VJ0071-603
S1B		LDI 0966 ON 06.728 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 06.728 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 06.776 4136VJ0072-603
S1B		LDI 0967 OFF 06.780 0422COMPT RESET PULSE NO. 2
S1B		LDI 0966 OFF 06.788 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 06.788 4137VJ0071-603
S1B		LDI 0966 ON 06.816 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 06.816 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 06.816 4136VJ0072-603
S1B		DDA 2160 ON 06.816 4137VJ0071-603
S1B		DDA 2159 OFF 06.868 4136VJ0072-603
S1B		LDI 0967 OFF 06.872 0422COMPT RESET PULSE NO. 2
	IU	LDO 0736 ON 06.872 4861MODE CODE 4 IND
S1B		LDI 0967 ON 06.876 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 06.876 4136VJ0072-603
S1B		LDI 0966 OFF 06.880 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 06.880 4137VJ0071-603
S1B		LDI 0966 ON 06.884 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 06.884 4137VJ0071-603
S1B		LDI 0966 OFF 06.936 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 06.936 0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 OFF 06.936 4137VJ0071-603
S1B		LDI 0966 ON 09.792 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 09.792 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 09.792 4136VJ0072-603
S1B		DDA 2160 ON 09.792 4137VJ0071-603
S1B		LDI 0967 OFF 09.844 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 09.844 4136VJ0072-603
	IU	LDO 0736 OFF 09.844 4861MODE CODE 4 IND
S1B		LDI 0966 OFF 09.852 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 09.852 4137VJ0071-603
S1B		LDI 0967 ON 09.876 0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 ON 09.876 4137VJ0071-603
S1B		LDI 0966 ON 09.884 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 09.884 4137VJ0071-603
S1B		LDI 0966 OFF 09.936 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 09.936 0422COMPT RESET PULSE NO. 2

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S18	DDA 2159 OFF 09.936 4136VJ0072-603
S18	DDA 2160 OFF 09.936 4137VJ0071-603
S18	DDA 2159 ON 09.940 4136VJ0072-603
S18	DDA 2160 ON 09.940 4137VJ0071-603
S18	LDI 0966 ON 09.944 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 09.944 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 09.984 4136VJ0072-603
S18	LDI 0966 OFF 09.984 0421COMPT RESET PULSE NO. 2
S18	LDI 0966 OFF 09.996 0421COMPT RESET PULSE NO. 1
S18	DDA 2160 OFF 09.996 4137VJ0071-603
S18	LDI 0966 ON 10.016 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 10.016 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 10.016 4136VJ0072-603
S18	DDA 2160 ON 10.016 4137VJ0071-603
S18	LDI 0967 OFF 10.068 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 10.068 4136VJ0072-603
S18	DDA 2160 OFF 10.076 4137VJ0071-603
S18	LDI 0966 OFF 10.080 0421COMPT RESET PULSE NO. 1
IU	LDO 0736 ON 10.096 4861MODE CODE 4 IND
S18	LDI 0967 ON 10.108 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 10.108 4136VJ0072-603
S18	LDI 0966 ON 10.116 0421COMPT RESET PULSE NO. 1
S18	DDA 2160 ON 10.116 4137VJ0071-603
S18	LDI 0967 OFF 10.168 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 10.168 4136VJ0072-603
S18	DDA 2160 OFF 10.168 4137VJ0071-603
S18	LDI 0966 OFF 10.172 0421COMPT RESET PULSE NO. 1
S18	LDI 0966 OFF 10.184 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 10.384 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 10.384 4136VJ0072-603
S18	DDA 2160 ON 10.384 4137VJ0071-603
IU	LDO 0734 ON 10.432 4859MODE CODE 2 IND
S18	LDI 0967 OFF 10.436 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 10.436 4136VJ0072-603
IU	LDO 0736 OFF 10.436 4861MODE CODE 4 IND
S18	LDI 0967 ON 10.444 0422COMPT RESET PULSE NO. 2
S18	LDI 0966 OFF 10.460 0421COMPT RESET PULSE NO. 1
S18	DDA 2160 OFF 10.460 4137VJ0071-603
S18	DDA 2159 OFF 10.476 4136VJ0072-603
S18	LDI 0967 OFF 10.480 0422COMPT RESET PULSE NO. 2
IU	LDO 0736 ON 10.528 4861MODE CODE 4 IND
S18	LDI 0967 ON 10.532 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 10.532 4136VJ0072-603
S18	DDA 2160 ON 10.532 4137VJ0071-603
IU	LDO 0734 OFF 10.532 4859MODE CODE 2 IND

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S18	LDI 0966 ON	10.536	0421COMPT RESET PULSE NO. 1
S18	DDA 2159 OFF	10.592	4136VJ0072-603
S18	LDI 0966 OFF	10.596	0421COMPT RESET PULSE NO. 1
S18	LDI 0967 OFF	10.596	0422COMPT RESET PULSE NO. 2
S18	DDA 2160 OFF	10.596	4137VJ0071-603
S18	DDA 2159 ON	10.640	4136VJ0072-603
S18	LDI 0967 ON	10.644	0422COMPT RESET PULSE NO. 2
S18	DDA 2160 ON	10.648	4137VJ0071-603
S18	LDI 0966 ON	10.652	0421COMPT RESET PULSE NO. 1
S18	LDI 0966 OFF	10.704	0421COMPT RESET PULSE NO. 1
S18	LDI 0967 OFF	10.704	0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF	10.704	4136VJ0072-603
S18	DDA 2160 OFF	10.704	4137VJ0071-603
S18	LDI 0967 0	11.276	0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON	11.276	4136VJ0072-603
S18	LDI 0966 ON	11.284	0421COMPT RESET PULSE NO. 1
S18	DDA 2160 ON	11.284	4137VJ0071-603
IU	LDO 0736 OFF	11.328	4861MODE CODE 4 IND
S18	DDA 2160 OFF	11.368	4137VJ0071-603
S18	LDI 0966 OFF	11.372	0421COMPT RESET PULSE NO. 1
S18	LDI 0967 OFF	11.376	0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF	11.376	4136VJ0072-603
S18	LDI 0967 ON	11.424	0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON	11.424	4136VJ0072-603
S18	LDI 0966 ON	11.432	0421COMPT RESET PULSE NO. 1
S18	DDA 2160 ON	11.432	4137VJ0071-603
S18	DDA 2159 OFF	11.484	4136VJ0072-603
S18	DDA 2160 OFF	11.484	4137VJ0071-603
S18	LDI 0966 OFF	11.488	0421COMPT RESET PULSE NO. 1
S18	LDI 0967 OFF	11.488	0422COMPT RESET PULSE NO. 2
S18	LDI 0966 ON	11.508	0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON	11.508	0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON	11.508	4136VJ0072-603
S18	DDA 2160 ON	11.508	4137VJ0071-603
S18	LDI 0967 OFF	11.560	0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF	11.560	4136VJ0072-603
S18	DDA 2160 OFF	11.568	4137VJ0071-603
S18	LDI 0966 OFF	11.572	0421COMPT RESET PULSE NO. 1
S18	LDI 0966 ON	11.576	0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON	11.576	0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON	11.576	4136VJ0072-603
S18	DDA 2160 0	11.576	4137VJ0071-603
IU	LDO 0736 ON	11.584	4861MODE CODE 4 IND
S18	LDI 0967 OFF	11.628	0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF	11.628	4136VJ0072-603
S18	LDI 0966 OFF	11.636	0421COMPT RESET PULSE NO. 1

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Address	Port	Device	Value	Description
S18		DDA 2160	OFF 11.636	4137VJ0071-603
	IU	LDI 0982	OFF 18.544	0462COUNT CLOCK HOLDING
	IU	DDA 2160	OFF 11.636	4137VJ0071-603
S18 S48	IU	CDC	-00 06 00.000	
S18 S48	IU	CDC	-00 06 00.000	
S18		LDI 0967	ON 59.432	0422COMPT RESET PULSE NO. 2
S18		LDI 0966	ON 59.424	0421COMPT RESET PULSE NO. 1
S18		DDA 2160	ON 59.424	4137VJ0071-603
	IU	LDO 0736	OFF 59.376	4861MODE CODE 4 IND
S18		LDI 0966	OFF 59.372	0421COMPT RESET PULSE NO. 1
S18		LDI 0967	OFF 59.372	0422COMPT RESET PULSE NO. 2
S18		DDA 2159	OFF 59.372	4136VJ0072-603
S18		DDA 2160	OFF 59.372	4137VJ0071-603
S18		DDA 2159	ON 59.368	4136VJ0072-603
S18		DDA 2160	ON 59.368	4137VJ0071-603
S18		LDI 0966	ON 59.364	0421COMPT RESET PULSE NO. 1
S18		LDI 0967	ON 59.364	0422COMPT RESET PULSE NO. 2
S18		LDI 0967	OFF 59.320	0422COMPT RESET PULSE NO. 2
S18		DDA 2159	OFF 59.320	4136VJ0072-603
S18		DDA 2160	OFF 59.320	4137VJ0071-603
S18		LDI 0967	ON 59.240	0422COMPT RESET PULSE NO. 2
S18		DDA 2159	ON 59.240	4136VJ0072-603
S18		LDI 0966	ON 59.232	0421COMPT RESET PULSE NO. 1
S18		DDA 2160	ON 59.232	4137VJ0071-603
S18		LDI 0966	OFF 59.180	0421COMPT RESET PULSE NO. 1
S18		LDI 0967	OFF 59.180	0422COMPT RESET PULSE NO. 2
S18		DDA 2160	OFF 59.180	4137VJ0071-603
S18		DDA 2159	ON 59.176	4136VJ0072-603
S18		LDI 0967	ON 59.172	0422COMPT RESET PULSE NO. 2
S18		LDI 0966	ON 59.164	0421COMPT RESET PULSE NO. 1
S18		DDA 2160	ON 59.164	4137VJ0071-603
S18		LDI 0967	OFF 59.120	0422COMPT RESET PULSE NO. 2
S18		DDA 2159	OFF 59.120	4136VJ0072-603
S18		LDI 0966	OFF 59.112	0421COMPT RESET PULSE NO. 1
S18		DDA 2160	OFF 59.112	4137VJ0071-603
S18		DDA 2159	ON 59.084	4136VJ0072-603
	IU	LDO 0736	ON 59.084	4861MODE CODE 4 IND
S18		LDI 0967	ON 59.080	0422COMPT RESET PULSE NO. 2
S18		DDA 2160	ON 59.076	4137VJ0071-603
S18		LDI 0966	ON 59.072	0421COMPT RESET PULSE NO. 1
S18		LDI 0966	OFF 59.020	0421COMPT RESET PULSE NO. 1
S18		LDI 0967	OFF 59.020	0422COMPT RESET PULSE NO. 2

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S1	DDA 2159 OFF 59.020 4136VJ0072-603
S18	DDA 2160 OFF 59.020 4137VJ0071-603
S18	LDI 0967 ON 58.524 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 58.524 4136VJ0072-603
S18	LDI 0966 ON 58.516 0421COMPT RESET PULSE NO. 1
S18	DDA 2160 ON 58.516 4137VJ0071-603
	IU LDO 0734 ON 58.472 4859MODE CODE 2 IND
	IU LDO 0736 OFF 58.472 4861MODE CODE 4 IND
S18	DDA 2160 OFF 58.440 4137VJ0071-603
S18	LDI 0966 OFF 58.436 0421COMPT RESET PULSE NO. 1
S18	DDA 2159 OFF 58.432 4136VJ0072-603
S18	LDI 0967 OFF 58.428 0422COMPT RESET PULSE NO. 2
	IU LDO 0736 ON 58.364 4861MODE CODE 4 IND
	IU LDO 0734 OFF 58.360 4859MODE CODE 2 IND
S18	LDI 0966 ON 58.356 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 58.356 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 58.356 4136VJ0072-603
S18	DDA 2160 ON 58.356 4137VJ0071-603
S18	LDI 0967 OFF 58.304 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 58.304 4136VJ0072-603
S18	LDI 0967 ON 58.300 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 58.300 4136VJ0072-603
S18	DDA 2160 OFF 58.256 4137VJ0071-603
S18	LDI 0966 OFF 58.252 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 OFF 58.248 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 58.248 4136VJ0072-603
S18	LDI 0966 ON 58.240 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 58.240 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 58.240 4136VJ0072-603
S18	DDA 2160 ON 58.240 4137VJ0071-603
S18	LDI 0966 OFF 58.188 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 OFF 58.188 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 58.188 4136VJ0072-603
S18	DDA 2160 OFF 58.188 4137VJ0071-603
S18	LDI 0966 ON 57.256 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 57.256 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 57.256 4136VJ0072-603
S18	DDA 2160 ON 57.256 4137VJ0071-603
	IU LDO 0736 OFF 57.208 4861MODE CODE 4 IND
S18	LDI 0966 OFF 57.196 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 OFF 57.196 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 OFF 57.196 4136VJ0072-603
S18	DDA 2160 OFF 57.196 4137VJ0071-603
S18	LDI 0966 ON 57.100 0421COMPT RESET PULSE NO. 1
S18	LDI 0967 ON 57.100 0422COMPT RESET PULSE NO. 2
S18	DDA 2159 ON 57.100 4136VJ0072-603

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S18		DDA 2160 ON	57.100	4137VJ0071-603
S18		DDA 2160 OFF	57.040	4137VJ0071-603
S18		LDI 0966 OFF	57.036	0421COMPT RESET PULSE NO. 1
S18		DDA 2159 OFF	57.024	4136VJ0072-603
S18		LDI 0967 OFF	57.020	0422COMPT RESET PULSE NO. 2
	IU	LDO 0736 ON	56.976	4861MODE CODE 4 IND
S18		LDI 0966 ON	56.940	0421COMPT RESET PULSE NO. 1
S18		LDI 0967 ON	56.940	0422COMPT RESET PULSE NO. 2
S18		DDA 2159 ON	56.940	4136VJ0072-603
S18		DDA 2160 ON	56.940	4137VJ0071-603
S18		LDI 0967 OFF	56.888	0422COMPT RESET PULSE NO. 2
S18		DDA 2159 OFF	56.888	4136VJ0072-603
S18		LDI 0966 OFF	56.880	0421COMPT RESET PULSE NO. 1
S18		DDA 2160 OFF	56.880	4137VJ0071-603
S18	S4B	IU	CDC -00 05	
S18	S4B	IU	CDC -00 04	
S18		LDI 0281 ON	12.472	0530FIRING CMD ENABLE
S18		MDI 0360 ON	12.472	3180FIRING COMMAND ENABLED
S18		MDI 0281 ON	12.408	3178FIRING CMD ENABLE
S18		LDO 0360 ON	12.376	4264FIRING COMMAND ENABLED
S18		LDI 0281 OFF	09.456	0530FIRING CMD ENABLE
S18		MDI 0281 OFF	09.400	3178FIRING CMD ENABLE
S18		MDI 2110 ON	07.408	3769CLOCK SYNC (T-187)
S18		MDI 2207 ON	07.404	2600TCS START ENABLE IND
S18		DEE 1166 ON	07.404	4934TCS NO.2 START ENABLE
S18		DEE 1167 ON	07.404	4935TCS NO.3 START ENABLE
S18		DEE 1163 OFF	07.400	4931TCS NO.3 COUNTERS ZERO
S18		DEE 3213 OFF	07.400	5027DRSCR 2 CMD RF LINK CK
S18		DEE 3214 OFF	07.400	5028RDN ARM RETR CTL VLV 2
S18		MDI 2205 OFF	07.396	2598TCS COUNTERS ALL ZERO
S18		MDI 0000 OFF	07.396	2820TCS READY
S18		MDI 0006 OFF	07.396	2879TCS RESET IND
S18		MDI 0353 OFF	07.396	3135PREPARATION COMPLETE
S18		MDI 0360 OFF	07.392	3180FIRING COMMAND ENABLED
S18		MDI 2207 OFF	07.388	2600TCS START ENABLE IND
S18		DEE 1166 OFF	07.388	4934TCS NO.2 START ENABLE
S18		DEE 1167 OFF	07.388	4935TCS NO.3 START ENABLE
S18		LDO 0000 OFF	07.332	4140TCS READY
S18		LDO 0353 OFF	07.320	4617PREPARATION COMPLETE
S18		DEE 1124 ON	07.300	2575TCS NO.1 CH.46
S18		DEE 1125 ON	07.300	2576TCS NO.2 CH.46
S18		DEE 1126 ON	07.300	2577TCS NO.3 CH.46
S18		LDO 0006 OFF	07.280	4172TCS RESET IND
S18		LDO 0360 OFF	07.276	4264FIRING COMMAND ENABLED
S18		DEE 1124 OFF	07.200	2575TCS NO.1 CH.46
S18		DEE 1125 OFF	07.200	2576TCS NO.2 CH.46

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S18	DEE 1175	OFF	07.200	2577TCS NO.3 CH.46
S18	MDI 2110	OFF	06.408	3769CLOCK SYNC (T-187)
S18	MDI 2187	ON	06.400	2596TCS PULSE OK
S18	DEE 1021	OFF	06.400	3119TCS NO.1 CH.6
S18	DEE 1021	OFF	06.400	3887TCS NO.2 CH6
S18	DEE 1022	OFF	06.400	3888TCS NO.3 CH.6
S18	MDI 2187	ON	06.396	3181TCS OUTPUT
S18	DEE 1023	ON	06.396	3889TCS CH.6 VOTED
S18	MDI 0353	ON	06.392	3135PREPARATION COMPLETE
IU	DEE 3788	ON	06.388	5151YAW-PITCH 1 ENABLE
IU	DEE 3789	ON	06.388	5152YAW-PITCH 2 ENABLE
IU	DEE 3790	ON	06.388	5153YAW-PITCH 3 ENABLE
IU	DEE 3791	ON	06.388	5154ROLL 1 ENABLE
IU	DEE 3792	ON	06.388	5155ROLL 2 ENABLE
IU	DEE 3793	ON	06.388	5156ROLL 3 ENABLE
S18	DDA 0117	ON	06.376	5248VK0224-337
S18	DDA 0118	ON	06.376	5249VK0225-337
S18	DDA 0120	ON	06.376	5251VK0201-337
S18	LDO 0353	ON	06.344	4617PREPARATION COMPLETE
S18	LDO 0361	ON	06.328	4265TCS OUTPUT
S18	DDA 0271	ON	06.300	1470VK0212-337
S18	DDA 0272	ON	06.300	1471VK0211-337
S18	DDA 0119	ON	06.128	5250VK0200-337
S18	MDI 2187	ON	05.400	2596TCS PULSE OK
S18	DEE 1021	OFF	05.400	3119TCS NO.1 CH.6
S18	DEE 1021	OFF	05.400	3887TCS NO.2 CH6
S18	DEE 1022	OFF	05.400	3888TCS NO.3 CH.6
S18	MDI 0361	OFF	05.396	3181TCS OUTPUT
S18	DEE 1023	OFF	05.396	3889TCS CH.6 VOTED
S18	LDO 0361	OFF	05.340	4265TCS OUTPUT
S18	MDI 2187	OFF	04.768	2596TCS PULSE OK
S18	MDI 2187	ON	04.400	2596TCS PULSE OK
S18	MDI 2187	OFF	03.768	2596TCS PULSE OK
S18	MDI 2187	ON	03.400	2596TCS PULSE OK
S18	MDI 2187	OFF	02.768	2596TCS PULSE OK
S18	MDI 2187	ON	02.400	2596TCS PULSE OK
S18	MDI 2187	OFF	01.768	2596TCS PULSE OK
S18	MDI 2187	ON	01.400	2596TCS PULSE OK
S18	MDI 2187	OFF	00.768	2596TCS PULSE OK
S18	MDI 2187	ON	00.400	2596TCS PULSE OK
S18	MDI 2187	OFF	59.768	2596TCS PULSE OK
S18	MDI 2187	ON	59.400	2596TCS PULSE OK
S18	MDI 2187	OFF	58.768	2596TCS PULSE OK
S18	MDI 2187	ON	58.400	2596TCS PULSE OK

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S18	MDI 2187 OFF	57.768	2596TCS	PULSE	OK
S18	MDI 2187 ON	57.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	56.768	2596TCS	PULSE	OK
S18	MDI 2187 ON	56.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	55.768	2596TCS	PULSE	OK
S18	MDI 2187 ON	55.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	54.768	2596TCS	PULSE	OK
S18	MDI 2187 ON	54.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	53.768	2596TCS	PULSE	OK
S18	MDI 2187 ON	53.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	52.772	2596TCS	PULSE	OK
S18	MDI 2187 ON	52.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	51.772	2596TCS	PULSE	OK
S18	MDI 2187 ON	51.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	50.772	2596TCS	PULSE	OK
S18	MDI 2187 ON	50.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	49.772	2596TCS	PULSE	OK
S18	MDI 2187 ON	49.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	48.772	2596TCS	PULSE	OK
S18	MDI 2187 ON	48.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	47.772	2596TCS	PULSE	OK
S18	MDI 2187 ON	47.400	2596TCS	PULSE	OK
S18	DEE 1024 ON	47.400	3890TCS	NO.1	CH.4
S18	DEE 1025 ON	47.400	3891TCS	NO.2	CH.4
S18	DEE 1026 ON	47.400	3892TCS	NO.3	CH.4
S18	DEE 1027 ON	47.396	3893TCS	CH.4	VOTED
S4B	MDI 1730 ON	47.392	3106LOX	TANK	PRESSURIZED
S4B	LDO 1730 ON	47.304	4791LOX	TANK	PRESSURIZED
S18	MDI 2187 OFF	46.772	2596TCS	PULSE	OK
S18	MDI 2187 ON	46.400	2596TCS	PULSE	OK
S18	DEE 1024 OFF	46.400	3890TCS	NO.1	CH.4
S18	DEE 1025 OFF	46.400	3891TCS	NO.2	CH.4
S18	DEE 1026 OFF	46.400	3892TCS	NO.3	CH.4
S18	DEE 1027 OFF	46.400	3893TCS	CH.4	VOTED
S18	MDI 2187 OFF	45.772	2596TCS	PULSE	OK
S18	MDI 2187 ON	45.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	44.772	2596TCS	PULSE	OK
S18	MDI 2187 ON	44.400	2596TCS	PULSE	OK
S18	MDI 2187 OFF	43.772	2596TCS	PULSE	OK
S18	MDI 2187 ON	43.400	2596TCS	PULSE	OK
S18	DEE 1028 ON	43.400	3894TCS	NO.1	CH.1
S18	DEE 1029 ON	43.400	3895TCS	NO.2	CH.1
S18	DEE 1030 ON	43.400	3896TCS	NO.3	CH.1
S18	DEE 1031 ON	43.400	3897TCS	CH.1	VOTED
S18	MDO 0706 OFF	43.396	1513LOX	EMER	VENT SW
S18	MDI 2209 ON	43.396	2601T1163	(TCS)	

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S18	MDI 0361 ON 43.396 3181TCS OUTPUT
S18	MDI 2056 OFF 43.396 3726LOX RELIEF OPEN
S18	MDO 0698 OFF 43.392 1505LOX PRES INTERRUPT
S18	MDO 0699 OFF 43.392 1506FUEL PRES INTERRUPT
S18	MDI 2055 OFF 43.392 3725FUEL VENT CONT VLV OPEN
S18	MDI 2057 OFF 43.392 3727LOX VENT 2 + 4 OPEN
S18	MDI 2058 OFF 43.392 3728LOX VENT 1 + 3 OPEN
S18	MDI 0045 ON 43.388 2863FUEL VENT NO 1 CLS IND
S18	MDI 0046 ON 43.388 2864FUEL VENT NO 2 CLS IND
S18	MDI 0048 OFF 43.384 2866FUEL PRESSG VLV NO 1 CLS
S18	MDI 0049 OFF 43.384 2867FUEL PRESSG VLV NO 2 CLS
S18	LDI 0091 ON 43.348 0051LOX VENT VLV 2 CLSD IND
S18	LDI 0094 OFF 43.348 0054LOX VENT VLV 4 OPEN IND
S18	LDI 0095 ON 43.348 0055LOX VENT VLV 4 CLSD IND
S18	DDA 1146 OFF 43.348 5261VK0159-011
S18	DDA 1147 OFF 43.348 5262VK0159-011
S18	DDA 1149 OFF 43.348 5263VK0155-011
S18	DDA 1150 ON 43.348 5264VK0154-011
S18	LDI 0090 OFF 43.344 0050LOX VENT VLV 2 OPEN IND
S18	LDI 0089 ON 43.340 0049LOX VENT VLV 1 CLSD IND
S18	LDI 0093 ON 43.340 0053LOX VENT VLV 3 CLSD IND
S18	LDI 0096 ON 43.340 0056LOX RELIEF CLOSE IND
S18	DDA 1154 OFF 43.340 5268VK0157-11
S18	DDA 1155 OFF 43.340 5269VK0122-11
S18	DDA 1156 ON 43.340 5270VK0121-11
S18	DDA 1157 ON 43.340 5271VK0120-11
S18	DDA 1158 ON 43.340 5272VK0156-11
S18	LDI 0088 OFF 43.336 0048LOX VENT VLV 1 OPEN IND
S18	LDI 0092 OFF 43.336 0052LOX VENT VLV 3 OPEN IND
S18	LDO 0361 ON 43.336 4265TCS OUTPUT
S18	LDO 0045 ON 43.292 4184FUEL VENT NO 1 CLS IND
S18	LDO 0046 ON 43.292 4185FUEL VENT NO 2 CLS IND
S18	LDO 0048 OFF 43.280 4187FUEL PRESSG VLV NO 1 CLS
S18	LDO 0049 OFF 43.280 4188FUEL PRESSG VLV NO 2 CLS
S18	MDI 2187 OFF 42.772 2596TCS PULSE OK
S18	MDI 2187 ON 42.400 2596TCS PULSE OK
S18	DEE 1028 OFF 42.400 3894TCS NO.1 CH.1
S18	DEE 1029 OFF 42.400 3895TCS NO.2 CH.1
S18	DEE 1030 OFF 42.400 3896TCS NO.3 CH.1
S18	DEE 1031 OFF 42.400 3897TCS CH.1 VOTED
S18	MDI 0361 OFF 42.396 3181TCS OUTPUT
S18	LDO 0361 OFF 42.340 4265TCS OUTPUT
S18	MDI 2187 OFF 41.772 2596TCS PULSE OK
S18	MDI 2187 ON 41.400 2596TCS PULSE OK
S18	MDI 2187 OFF 40.772 2596TCS PULSE OK
S18	MDI 2187 ON 40.404 2596TCS PULSE OK

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S1	MDI 2187 OFF 39.772 2596TCS PULSE OK
S1	MDI 2187 ON 39.404 2596TCS PULSE OK
S1	MDI 2187 OFF 38.772 2596TCS PULSE OK
S1	MDI 2187 ON 38.404 2596TCS PULSE OK
S1	MDI 2187 OFF 37.772 2596TCS PULSE OK
S1	MDI 2187 ON 37.404 2596TCS PULSE OK
S1	MDI 2187 OFF 36.772 2596TCS PULSE OK
S1	MDI 2187 ON 36.404 2596TCS PULSE OK
S1	MDI 2187 OFF 35.772 2596TCS PULSE OK
S1	MDI 2187 ON 35.404 2596TCS PULSE OK
S1	MDI 2187 OFF 34.772 2596TCS PULSE OK
S1	MDI 2187 ON 34.404 2596TCS PULSE OK
S1	MDI 2187 OFF 33.772 2596TCS PULSE OK
S1	MDI 2187 ON 33.404 2596TCS PULSE OK
S1B	DEE 1032 ON 33.404 3898TCS NO.1 CH.3
S1B	DEE 1033 ON 33.404 3899TCS NO.2 CH.3
S1B	DEE 1034 ON 33.404 4937TCS NO. 3 CH.3
S1B	MDI 0361 ON 33.400 3181TCS OUTPUT
S1B	DEE 1035 ON 33.400 4939TCS CH.3 VOTED
S1B	MDI 2111 ON 33.388 3778LOX BUBBLING VLV A61460
S1B	MDI 0052 ON 33.384 2870LOX BUBBLING A61461 IND
S1B	LDO 0361 ON 33.336 4265TCS OUTPUT
S1B	LDO 0052 ON 33.300 4191LOX BUBBLING A61461 IND
S1B	MDI 2187 OFF 32.772 2596TCS PULSE OK
S1B	MDI 2187 ON 32.404 2596TCS PULSE OK
S1B	DEE 1032 OFF 32.404 3898TCS NO.1 CH.3
S1B	DEE 1033 OFF 32.404 3899TCS NO.2 CH.3
S1B	DEE 1034 OFF 32.404 4937TCS NO. 3 CH.3
S1B	DEE 1036 ON 32.400 1480TCS NO.1 CH.5
S1B	DEE 1037 ON 32.400 1481TCS NO.2 CH.5
S1B	DEE 1038 ON 32.400 1482TCS NO.3 CH.5
S1B	DEE 1039 ON 32.400 1483TCS CH.5 VOTED
S1B	MDI 0361 OFF 32.400 3181TCS OUTPUT
S1B	DEE 1035 OFF 32.400 4939TCS CH.3 VOTED
S1B	LDO 0361 OFF 32.332 4265TCS OUTPUT
S1	MDI 2187 OFF 31.772 2596TCS PULSE OK
S1	DEE 1036 OFF 31.404 1480TCS NO.1 CH.5
S1	DEE 1037 OFF 31.404 1481TCS NO.2 CH.5
S1	DEE 1038 OFF 31.404 1482TCS NO.3 CH.5
S1	MDI 2187 ON 31.404 2596TCS PULSE OK
S1	DEE 1039 OFF 31.400 1483TCS CH.5 VOTED
S1	MDI 2187 OFF 30.772 2596TCS PULSE OK
S1	MDI 2187 ON 30.404 2596TCS PULSE OK
S1	MDI 2187 OFF 29.772 2596TCS PULSE OK
S1	MDI 2187 ON 29.404 2596TCS PULSE OK
S1	MDI 2187 OFF 28.772 2596TCS PULSE OK

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S1B	MDI 2187 ON	28.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	27.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	27.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	26.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	26.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	25.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	25.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	24.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	24.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	23.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	23.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	22.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	22.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	21.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	21.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	20.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	20.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	19.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	19.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	18.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	18.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	17.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	17.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	16.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	16.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	15.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	15.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	14.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	14.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	13.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	13.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	12.772	2596TCS	PULSE	OK
S1B	MDI 2187 ON	12.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	11.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	11.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	10.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	10.404	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	09.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	09.404	2596TCS	PULSE	OK

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TEST SIM FLT MAL RAT 73 11

S1B	MDI 2187 OFF 08.776 2596TCS PULSE OK
S1B	MDI 2187 ON 08.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 07.776 2596TCS PULSE OK
S1B	MDI 2187 ON 07.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 06.776 2596TCS PULSE OK
S1B	MDI 2187 ON 06.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 05.776 2596TCS PULSE OK
S1B	MDI 2187 ON 05.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 04.776 2596TCS PULSE OK
S1B	MDI 2187 ON 04.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 03.776 2596TCS PULSE OK
S1B	MDI 2187 ON 03.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 02.776 2596TCS PULSE OK
S1B	MDI 2187 ON 02.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 01.776 2596TCS PULSE OK
S1B	MDI 2187 ON 01.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 00.776 2596TCS PULSE OK
S1B	DEE 1044 ON 00.404 1488TCS NO.1 CH.14
S1B	DEE 1045 ON 00.404 1489TCS NO.2 CH.14
S1B	DEE 1046 ON 00.404 1490TCS NO.3 CH.14
S1B	MDI 2187 ON 00.404 2596TCS PULSE OK
S1B	DEE 1047 ON 00.400 1491TCS CH.14 VOTED
S4B	MDI 1946 ON 00.396 3952LH TANK PRESSURIZED
S4B	MDI 1938 ON 00.392 3944LH TANK PRES COMMAND
S4B	MDO 1594 ON 00.388 1437LH TK GND PREPRES SV OP
S4B	LDO 1946 ON 00.328 4680LH TANK PRESSURIZED
S4B	LDO 1938 ON 00.316 4552LH TANK PRES COMMAND
S1B	MDI 2187 OFF 59.776 2596TCS PULSE OK
S1B	DEE 1044 OFF 59.404 1488TCS NO.1 CH.14
S1B	DEE 1045 OFF 59.404 1489TCS NO.2 CH.14
S1B	DEE 1046 OFF 59.404 1490TCS NO.3 CH.14
S1B	MDI 2187 ON 59.404 2596TCS PULSE OK
S1B	DEE 1047 OFF 59.400 1491TCS CH.14 VOTED
S1B	MDI 2187 OFF 58.776 2596TCS PULSE OK
S1B	MDI 2187 ON 58.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 57.776 2596TCS PULSE OK
S1B	MDI 2187 ON 57.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 56.776 2596TCS PULSE OK
S1B	MDI 2187 ON 56.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 55.776 2596TCS PULSE OK
S1B	MDI 2187 ON 55.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 54.776 2596TCS PULSE OK
S1B	MDI 2187 ON 54.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 53.776 2596TCS PULSE OK
S1B	MDI 2187 ON 53.404 2596TCS PULSE OK

DATE 04/24/76

VEHICLE 1207

TEST S14 FLT VAL DAT MAY 76 11

S1B	MDI 2187 OFF 52.776 2596TCS PULSE OK
S1B	MDI 2187 ON 52.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 51.776 2596TCS PULSE OK
S1B	MDI 2187 ON 51.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 50.776 2596TCS PULSE OK
S1B	MDI 2187 ON 50.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 49.776 2596TCS PULSE OK
S1B	MDI 2187 ON 49.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 48.776 2596TCS PULSE OK
S1B	MDI 2187 ON 48.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 47.776 2596TCS PULSE OK
S1B	MDI 2187 ON 47.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 46.776 2596TCS PULSE OK
S1B	MDI 2187 ON 46.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 45.776 2596TCS PULSE OK
S1B	MDI 2187 ON 45.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 44.776 2596TCS PULSE OK
S1B	MDI 2187 ON 44.404 2596TCS PULSE OK
S1B	MDI 2187 OFF 43.776 2596TCS PULSE OK
S1B	MDI 2187 ON 43.404 2596TCS PULSE OK
S1B	DEE 1040 ON 43.404 1484TCS NO.1 CH.13
S1B	DEE 1041 ON 43.404 1485TCS NO.2 CH.13
S1B	DEE 1042 ON 43.404 1486TCS NO.3 CH.13
S1B	MDI 0361 ON 43.404 3181TCS OUTPUT
S1B	DEE 1043 ON 43.400 1487TCS CH.13 VOTED
S1B	MDI 2111 OFF 43.396 3778LOX BUBBLING VLV A61460
S1B	MDI 0052 OFF 43.392 2870LOX BUBBLING A61461 IND
S1B	MDI 0053 ON 43.392 2871LOX PRESS VALVE OPEN IND
S1B	LDO 0051 ON 43.328 4190TIME TO END LOX BBLG IND
S1B	LDO 0052 OFF 43.288 4191LOX BUBBLING A61461 IND
S1B	LDO 0053 ON 43.288 4192LOX PRESS VALVE OPEN IND
S1B	MDI 2187 OFF 42.776 2596TCS PULSE OK
S1B	MDI 2187 ON 42.408 2596TCS PULSE OK
S1B	DEE 1040 OFF 42.404 1484TCS NO.1 CH.13
S1B	DEE 1041 OFF 42.404 1485TCS NO.2 CH.13
S1B	DEE 1042 OFF 42.404 1486TCS NO.3 CH.13
S1B	DEE 1043 OFF 42.400 1487TCS CH.13 VOTED
S1B	MDI 0361 OFF 42.400 3181TCS OUTPUT
S1B	LDO 0361 OFF 42.348 4265TCS OUTPUT
S1B	MDI 2187 OFF 41.776 2596TCS PULSE OK
S1B	MDI 2187 ON 41.408 2596TCS PULSE OK
S1B	MDI 2187 OFF 40.776 2596TCS PULSE OK
S1B	MDI 2187 ON 40.408 2596TCS PULSE OK
S1B	MDI 2187 OFF 39.776 2596TCS PULSE OK

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VEHICLE #207

TEST SIM FLT MFL CAT #31 24 11

11	MDI 2187 ON	39.408	2596TCS	PULSE	OK
11B	MDI 2187 OFF	38.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	38.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	37.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	37.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	36.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	36.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	35.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	35.408	2596TCS	PULSE	OK
11B	MDI 2187 OFF	34.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	34.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	33.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	33.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	32.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	32.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	31.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	31.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	30.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	30.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	29.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	29.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	28.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	28.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	27.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	27.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	26.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	26.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	25.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	25.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	24.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	24.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	23.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	23.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	22.776	2596TCS	PULSE	OK
S1B	MDI 2187 ON	22.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	21.780	2596TCS	PULSE	OK
S1B	MDI 2187 ON	21.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	20.780	2596TCS	PULSE	OK
S1B	MDI 2187 ON	20.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	19.780	2596TCS	PULSE	OK
S1B	MDI 2187 ON	19.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	18.780	2596TCS	PULSE	OK
S1B	MDI 2187 ON	18.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	17.780	2596TCS	PULSE	OK
S1B	MDI 2187 ON	17.408	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	16.780	2596TCS	PULSE	OK

DATE 04/26/73

VEHICLE 0207

TEST SIM FLT MAL DAT 000000 11

S18	DEE 1054 ON	00.408	1498TCS	NO.3 CH.19
S18	MDI 2187 ON	00.408	2596TCS	PULSE OK
S18	DEE 1055 ON	00.404	1499TCS	CH.19 VOTED
S18	MDI 0361 ON	00.404	3181TCS	OUTPUT
S18	LDO 0361 ON	00.356	4265TCS	OUTPUT
S18	MDI 2187 OFF	59.780	2596TCS	PULSE OK
S18	DEE 1052 OFF	59.408	1496TCS	NO.1 CH.19
S18	DEE 1053 OFF	59.408	1497TCS	NO.2 CH.19
S18	DEE 1054 OFF	59.408	1498TCS	NO.3 CH.19
S18	DEE 1055 OFF	59.408	1499TCS	CH.19 VOTED
S18	MDI 0361 OFF	59.408	3181TCS	OUTPUT
S18	LDO 0361 OFF	59.348	4265TCS	OUTPUT
S18	MDI 2187 OFF	58.780	2596TCS	PULSE OK
S18	MDI 2187 OFF	57.780	2596TCS	PULSE OK
S18	MDI 2187 OFF	56.780	2596TCS	PULSE OK
S18	MDI 2187 ON	56.408	2596TCS	PULSE OK
S18	MDI 2187 OFF	55.780	2596TCS	PULSE OK
S18	MDI 2187 OFF	54.780	2596TCS	PULSE OK
S18	MDI 2187 ON	54.408	2596TCS	PULSE OK
S18	MDI 2187 OFF	53.780	2596TCS	PULSE OK
S18	MDI 2187 OFF	52.780	2596TCS	PULSE OK
S18	MDI 2187 ON	52.408	2596TCS	PULSE OK
S18	MDI 2187 OFF	51.780	2596TCS	PULSE OK
S18	MDI 2187 ON	51.408	2596TCS	PULSE OK
S18	MDI 2187 OFF	50.780	2596TCS	PULSE OK
S18	MDI 2187 ON	50.408	2596TCS	PULSE OK
S18	DEE 1056 ON	50.408	2747TCS	NO.1 CH.23
S18	DEE 1057 ON	50.408	2748TCS	NO.2 CH.23
S18	DEE 1058 ON	50.408	2749TCS	NO.3 CH.23
S18	MDI 0064 ON	50.408	2944TIME	FOR PWR XFER IND
S18	MDI 0361 ON	50.408	3181TCS	OUTPUT
S18	DEE 1059 ON	50.404	2750TCS	CH.23 VOTED
S18	MDI 2059 ON	50.400	3729NO. 1	STAGE PWR XFER INT
S18	MDI 2060 ON	50.400	3730NO. 2	STAGE PWR XFER INT
S18	MDI 2610 ON	50.396	2652+1D20	INT PWR
S18	MDI 2611 ON	50.396	2653+1D10	INT PWR
S18	MDI 0873 ON	50.396	3561POWER	TRANSFER COMM IND
S4B	MDI 1953 OFF	50.396	3955+4D411	SUPERVISION
IU	MDI 2239 OFF	50.396	5022IU	READY FOR LAUNCH
IU	MDI 2240 OFF	50.396	5023IU	READY FOR LAUNCH

IDATE 04/26/73

VEHICLE 0207

TEST SIM FLT MAL DAT 0000 11

S4B	MDI 2669 OFF 50.396 52194D411 QAT SUPERVISION
S1B	MDO 1316 OFF 50.392 2153IU READY BYPASS
S1B	MDI 0042 OFF 50.392 2860IU READY IND
S1B	MDI 0353 OFF 50.392 3135PREPARATION COMPLETE
IU	MDI 0872 OFF 50.392 3560IU READY FOR LAUNCH
S1B	DDD 1538 ON 50.388 1538DDAS SPARE
S1B	MDI 2613 ON 50.376 2655+1D22 PWR XFER CMD
S1B	MDI 2617 ON 50.376 2659+1D12 ON
S1B	MDI 0084 ON 50.376 2964S-IB STAGE PWR IND
S1B	MDI 0075 ON 50.372 2955CALORIMETER PURGE ON IN
S1B	MDI 2059 OFF 50.372 3729NO. 1 STAGE PWR XFER INT
S1B	MDI 2060 OFF 50.372 3730NO. 2 STAGE PWR XFER INT
S4B	MDI 2707 ON 50.368 2732AFT BUS 2 ON INTR
S4B	MDI 2709 OFF 50.364 2734STG ON EXT PWR
S1B	MDI 0105 ON 50.364 2985TH CALIBRATION PWR ON IN
S1B	DDD 1537 ON 50.358 1537DDAS SPARE
S1B	DDD 1535 ON 50.352 1535DDAS SPARE
S1B	DDD 1536 ON 50.352 1536DDAS SPARE
S4B	MDI 2708 ON 50.348 2733FWD PWR ON INTR
S4B	MDI 2706 ON 50.344 2731AFT BUS 1 ON INTR
IU	MDI 0779 ON 50.344 3479IU STAGE POWER IND
S4B	MDI 1842 ON 50.344 3926STAGE ON INT POWER
S1B	LDO 0064 ON 50.336 4203TIME FOR PWR XFER IND
S1B	MDI 0004 OFF 50.324 2824+1D221 ON IND
S1B	LDO 0361 ON 50.324 4265TCS OUTPUT
S1B	MDO 1334 OFF 50.320 1391SAFETY SWITCH ARM
S1B	MDO 1297 OFF 50.320 2135MEAS SYSTEM ON
S1B	MDO 1298 OFF 50.320 2136TRANSMITTER P1 ON
S1B	MDI 0003 OFF 50.320 2823+1D121 ON IND
S1B	MDI 0065 OFF 50.320 2945GROUND POWER IND
S1B	MDI 0107 OFF 50.320 2987TRANSMITTER P1 ON IND
S1B	MDI 0108 OFF 50.320 2988RF BUS ON IND
S1B	MDI 2522 OFF 50.316 2689ANY S-IB TRANSMITTER ON
S1B	MDI 0150 ON 50.312 3030POWER TRANSFER COMPLETE
IU	MDO 1879 OFF 50.288 167256 VOLT SW ON
IU	MDO 1880 OFF 50.288 16738LOWER SW ON
IU	MDO 1882 OFF 50.288 1675GYROS SW ON
IU	MDO 1883 OFF 50.288 1676SERVO SW ON
IU	MDO 1884 OFF 50.288 1677X-SERVO ON
IU	MDO 1885 OFF 50.288 1678Y-SERVO ON
IU	MDO 1886 OFF 50.288 1679ACCEL SERVOS SW ON
S1B	LDO 0042 OFF 50.288 4181IU READY IND
IU	MDI 0781 OFF 50.284 3481GROUND POWER IND
IU	LDO 0873 ON 50.280 4658POWER TRANSFER COMM IND
IU	MDO 0733 OFF 50.276 1858MEAS RACK SEL PWR ON COM
IU	MDI 0872 OFF 50.276 4657IU READY FOR LAUNCH

DATE 04/26/73

VEHICLE 0207

TEST SIM FLT VAL CAT 42 73 11

S1B		MDI 0063 ON 50.268 2943IU POWER XFER OK IND
	IU	MDI 0777 ON 50.268 4477IU POWER XFER COMPLETE
S1B		LDO 0353 OFF 50.268 4617PREPARATION COMPLETE
S1B		MDI 0042 ON 50.264 2860IU READY IND
S1B	IU	MDI 0872 ON 50.264 3560IU READY FOR LAUNCH
	IU	MDI 2239 ON 50.264 5022IU READY FOR LAUNCH
	IU	MDI 0246 ON 50.264 5022IU READY FOR LAUNCH
S1B		MDI 0353 ON 50.260 3135PREPARATION COMPLETE
S4B		LDO 1953 OFF 50.220 4683?4D411 SUPERVISION
S1B		LDO 0075 ON 50.160 4214CALORIMETER PURGE ON IND
S1B		LDO 0084 ON 50.160 4223S-IB STAGE PWR IND
S1B		LDO 0105 ON 50.152 4244TM CALIBRATION PWR ON IN
	IU	LDO 0779 ON 50.144 4903IU STAGE POWER IND
S1B		LDO 0004 OFF 50.132 4144+1D221 ON IND
S1B		LDO 0065 OFF 50.084 4204GROUND POWER IND
S1B		LDO 0107 OFF 50.080 4246TRANSMITTER P1 ON IND
S1B		LDO 0108 OFF 50.076 4247RF BUS ON IND
S1B		LDO 0150 ON 50.068 4589POWER TRANSFER COMPLETE
	IU	LDO 0781 OFF 50.032 4905GROUND POWER IND
	IU	LDO 0777 ON 50.024 4901POWER TRANSFER COMPLETE
S1B		LDO 0063 ON 50.012 4202IU POWER XFER OK IND
S1B		LDO 0672 ON 50.004 4657IU READY FOR LAUNCH
S1B		LDO 0042 ON 49.968 4181IU READY IND
S1B		LDO 0353 ON 49.960 4617PREPARATION COMPLETE
S4B		LDO 1842 ON 49.872 4533STAGE ON INT POWER
S1B		MDI 2187 ON 49.412 2596TCS PULSE OK
S1B		DEE 1056 OFF 49.412 2747TCS NO.1 CH.23
S1B		DEE 1057 OFF 49.412 2748TCS NO.2 CH.23
S1B		DEE 1058 OFF 49.412 2749TCS NO.3 CH.23
S1B		DEE 1059 OFF 49.408 2750TCS CH.23 VOTED
S1B		MDI 0361 OFF 49.408 3181TCS OUTPUT
S4B		MDI 2655 ON 49.348 4985STG ON INT PWR PLUS 1SEC
S1B		DDA 3044 ON 49.340 5358VK0141-411
S1B		LDO 0361 OFF 49.324 4265TCS OUTPUT
S4B		MDI 1798 OFF 49.280 3828?4D211 SUPERVISION
S4B		MDI 2667 OFF 49.280 51204D211 OAT SUPERVISION
S4B		MDI 1980 OFF 49.276 39774D111 SUPERVISION
S4B		MDI 2666 OFF 49.276 51074D111 OAT SUPERVISION
S4B		MDI 1799 OFF 49.272 782224D311 SUPERVISION
S4B		MDI 1843 ON 49.268 3927PWR XFER COMPLETE
S1B		MDI 0042 ON 49.252 4942S-IVB POWER XFER OK IND
S1B		DDA 3044 OFF 49.252 5358VK0141-411
S1B		LDO 0062 ON 49.200 4201S-IVB POWER XFER OK IND

DATE 06/28/75

VEHICLE 0207

TEST SIM FLT MAL CAT 73 11

S4B	LDO	1798	OFF	49.188	449374D211 SUPERVISION
S4B	LDO	1799	OFF	49.144	449474D311 SUPERVISION
S4B	LDO	1980	OFF	49.136	47044D111 SUPERVISION
S4B	LDO	1843	ON	49.124	4534PWR XFER COMPLETE
S1B	MDI	2187	OFF	48.780	2596TCS PULSE OK
S1B	MDI	2187	ON	48.412	2596TCS PULSE OK
S1B	MDI	2187	OFF	47.780	2596TCS PULSE OK
S1B	MDI	2187	ON	47.412	2596TCS PULSE OK
S1B	DEE	1060	ON	47.408	2751TCS NO.1 CH.25
S1B	DEE	1061	ON	47.408	2752TCS NO.2 CH.25
S1B	DEE	1062	ON	47.408	2753TCS NO.3 CH.25
S1B	DEE	1063	ON	47.408	2754TCS CH.25 VOTED
IU	MDI	0577	ON	47.404	3205PRES SW REACTIVATE T-47
IU	LDO	0577	ON	47.352	4976PRES SW REACTIVATE T-47
S1B	MDI	2187	OFF	46.780	2596TCS PULSE OK
S1B	MDI	2187	ON	46.412	2596TCS PULSE OK
S1B	DEE	1060	OFF	46.412	2751TCS NO.1 CH.25
S1B	DEE	1061	OFF	46.412	2752TCS NO.2 CH.25
S1B	DEE	1062	OFF	46.412	2753TCS NO.3 CH.25
S1B	DEE	1063	OFF	46.408	2754TCS CH.25 VOTED
S1B	MDI	2187	OFF	45.780	2596TCS PULSE OK
S1B	MDI	2187	ON	45.412	2596TCS PULSE OK
S1B	MDI	2187	OFF	44.780	2596TCS PULSE OK
S1B	MDI	2187	ON	44.412	2596TCS PULSE OK
S1B	MDI	2187	OFF	43.780	2596TCS PULSE OK
S1B	MDI	2187	ON	43.412	2596TCS PULSE OK
S1B	MDI	2187	OFF	42.780	2596TCS PULSE OK
S1B	MDI	2187	ON	42.412	2596TCS PULSE OK
S1B	MDI	0056	ON	42.396	2874PROPELLANTS PRESO IND
S1B	MDI	2608	ON	42.396	3776S1B FUEL PRESSURE SW OK
S1B	MDI	0053	OFF	42.392	2871LOX PRESSG VALVE OPEN IND
S1B	MDI	0054	ON	42.392	2872LOX PRESSURIZED IND
S1B	LDO	0054	ON	42.312	4193LOX PRESSURIZED IND
S1B	LDO	0056	ON	42.312	4195PROPELLANTS PRESO IND
S1B	LDO	0053	OFF	42.300	4192LOX PRESSG VALVE OPEN IND
S1B	MDI	2187	OFF	41.780	2596TCS PULSE OK
S1B	MDI	2187	ON	41.412	2596TCS PULSE OK
S1B	MDI	2187	OFF	40.780	2596TCS PULSE OK
S1B	MDI	2187	ON	40.412	2596TCS PULSE OK
S1B	DEE	1064	ON	40.408	1547TCS NO.1 CH.11
S1B	DEE	1065	ON	40.408	1548TCS NO.2 CH.11
S1B	DEE	1066	ON	40.408	1549TCS NO.3 CH.11
S1B	DEE	1067	ON	40.408	1550TCS CH.11 VOTED
S1B	MDI	2187	OFF	39.780	2596TCS PULSE OK
S1B	DEE	1064	OFF	39.412	1547TCS NO.1 CH.11
S1B	DEE	1065	OFF	39.412	1548TCS NO.2 CH.11

IDATE 04/26/73

VEHICLE 0207

TEST SIM FLT MAL OAT RUN /3 ||

S1B	DEE 1066 OFF 39.412 1549TCS NO.3 CH.11
S1B	MDI 2187 ON 39.412 2596TCS PULSE OK
S1B	DEE 1067 OFF 39.408 1550TCS CH.11 VOTED
S4B	MDI 2651 OFF 39.372 2706LH DIRECTION VENT GND PO
S4B	MDO 1729 ON 39.368 2228DIRECT VENT BYPASS ON
S4B	MDI 1714 ON 39.368 3092LH DIR VENT IN FLT POS
S1B	MDI 0463 ON 39.368 3276S-IVB READY FOR LAUNCH
S4B	MDI 1966 ON 39.368 3967READY FOR LAUNCH
S1B	MDI 0078 ON 39.364 2958SIVB READY TO LAUNCH IND
S1B	LDO 0078 ON 39.284 4217SIVB READY TO LAUNCH IND
S4B	LDO 1714 ON 39.272 4775LH DIR VENT IN FLT POS
S4B	LDO 1966 ON 39.236 4695READY FOR LAUNCH
S1B	MDI 2187 OFF 38.780 2596TCS PULSE OK
S1B	MDI 2187 ON 38.412 2596TCS PULSE OK
S1B	MDI 2187 OFF 37.780 2596TCS PULSE OK
S1B	MDI 2187 ON 37.412 2596TCS PULSE OK
S1B	MDI 2187 OFF 36.780 2596TCS PULSE OK
S1B	MDI 2187 ON 36.412 2596TCS PULSE OK
S1B	MDI 2187 OFF 35.780 2596TCS PULSE OK
S1B	MDI 2187 ON 35.412 2596TCS PULSE OK
S1B	MDI 2187 OFF 34.780 2596TCS PULSE OK
S1B	MDI 2187 ON 34.412 2596TCS PULSE OK
S1B	MDI 2187 OFF 33.780 2596TCS PULSE OK
S1B	MDI 2187 ON 33.412 2596TCS PULSE OK
S1B	MDI 2187 OFF 32.780 2596TCS PULSE OK
S1B	MDI 2187 ON 32.412 2596TCS PULSE OK
S1B	MDI 2187 OFF 31.780 2596TCS PULSE OK
S1B	MDI 2187 ON 31.412 2596TCS PULSE OK
S1B	MDI 2187 OFF 30.784 2596TCS PULSE OK
S1B	DEE 1068 ON 30.412 1551TCS NO.1 CH.21
S1B	DEE 1069 ON 30.412 1552TCS NO.2 CH.21
S1B	DEE 1070 ON 30.412 1553TCS NO.3 CH.21
S1B	MDI 2187 ON 30.412 2596TCS PULSE OK
S1B	DEE 1071 ON 30.408 1554TCS CH.21 VOTED
S1B	MDI 0361 ON 30.408 3181TCS OUTPUT
S1B	LDO 0361 ON 30.344 4265TCS OUTPUT
S1B	MDI 2187 OFF 29.784 2596TCS PULSE OK
S1B	DEE 1068 OFF 29.412 1551TCS NO.1 CH.21
S1B	DEE 1069 OFF 29.412 1552TCS NO.2 CH.21
S1B	DEE 1070 OFF 29.412 1553TCS NO.3 CH.21
S1B	MDI 2187 ON 29.412 2596TCS PULSE OK
S1B	DEE 1071 OFF 29.408 1554TCS CH.21 VOTED
S1B	MDI 0361 OFF 29.408 3181TCS OUTPUT
S1B	LDO 0361 OFF 29.348 4265TCS OUTPUT
S1B	MDI 2187 OFF 28.784 2596TCS PULSE OK

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S1B	DEE 1072 ON	28.412	1555TCS NO.1 CH.24
S1B	DEE 1073 ON	28.412	1556TCS NO.2 CH.24
S1B	DEE 1074 ON	28.412	1557TCS NO.3 CH.24
S1B	MDI 2187 ON	28.412	2596TCS PULSE OK
S1B	DEE 1075 ON	28.408	1558TCS CH.24 VOTED
S1B	MDI 0361 ON	28.408	3181TCS OUTPUT
S1B	MDO 0560 ON	28.404	1827GG LOX INJECTOR PURGE ON
S1B	MDO 0562 ON	28.404	1829LOX DOME PURGE PRES ON
S1B	MDO 1280 ON	28.404	2118TC FUEL INJECTOR PRG ON
S1B	MDI 0067 ON	28.404	2947TIME FOR ENG PURGE IND
S1B	MDI 2121 ON	28.396	2770TC FUEL INJ PRG P A5317
S1B	MDI 2122 ON	28.396	2771TC FUEL INJ PRG P A5318
S1B	MDI 2123 ON	28.396	2772TC FUEL INJ PRG P A5319
S1B	MDI 2124 ON	28.396	2773TC FUEL INJ PRG P A5203
S1B	MDI 0071 ON	28.392	2951TC FUEL INJ PRG ON IND
S1B	LDO 0361 ON	28.348	4265TCS OUTPUT
S1B	LDO 0067 ON	28.336	4206TIME FOR ENG PURGE IND
S1B	LDO 0071 ON	28.296	4210TC FUEL INJ PRG ON IND
S1B	MDI 2187 OFF	27.784	2596TCS PULSE OK
S1B	DEE 1072 OFF	27.412	1555TCS NO.1 CH.24
S1B	DEE 1073 OFF	27.412	1556TCS NO.2 CH.24
S1B	DEE 1074 OFF	27.412	1557TCS NO.3 CH.24
S1B	MDI 2187 ON	27.412	2596TCS PULSE OK
S1B	DEE 1075 OFF	27.408	1558TCS CH.24 VOTED
S1B	MDI 0361 OFF	27.408	3181TCS OUTPUT
S1B	LDO 0361 OFF	27.364	4265TCS OUTPUT
S1B	MDI 2187 OFF	26.784	2596TCS PULSE OK
S1B	MDI 2187 ON	26.412	2596TCS PULSE OK
S1B	MDI 2187 OFF	25.784	2596TCS PULSE OK
S1B	MDI 2187 ON	25.412	2596TCS PULSE OK
S1B	MDI 2187 OFF	24.784	2596TCS PULSE OK
S1B	MDI 2187 ON	24.412	2596TCS PULSE OK
S1B	MDI 2187 OFF	23.784	2596TCS PULSE OK
S1B	MDI 2187 ON	23.412	2596TCS PULSE OK
S1B	MDI 2187 OFF	22.784	2596TCS PULSE OK
S1B	MDI 2187 ON	22.412	2596TCS PULSE OK
S1B	DEE 1076 ON	22.412	4940TCS NO.1 CH.27
S1B	DEE 1077 ON	22.412	4949TCS NO.2 CH.27
S1B	DEE 1078 ON	22.412	4950TCS NO.3 CH.27
S1B	DEE 1079 ON	22.408	4951TCS CH.27 VOTED
S1B	IO	MDO 0887 ON	22.400 2082PREP FOR GUID REL SIM
S1B	IO	MDO 1316 OFF	22.400 2153IU READY BYPASS
S1B	IO	MDI 0042 OFF	22.400 2860IU READY IND
S1B	IO	MDI 0870 ON	22.400 3558GUIDANCE ALERT
S1B	IO	MDI 0872 OFF	22.400 3560IU READY FOR LAUNCH

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	IU	MDI 2239 OFF 22.400	5022IU READY FOR LAUNCH
	IU	MDI 2240 OFF 22.400	5023IU READY FOR LAUNCH
S1B		LDO 0042 OFF 22.312	4181IU READY IND
S1B		LDO 0353 OFF 22.304	4617PREPARATION COMPLETE
	IU	LDO 0870 ON 22.296	4655GUIDANCE ALERT
S1B		LDO 0872 OFF 22.292	4657IU READY FOR LAUNCH
S1B		MDI 2187 OFF 21.784	2596TCS PULSE OK
S1B		MDI 2187 ON 21.412	2596TCS PULSE OK
S1B		DEE 1076 OFF 21.412	4940TCS NO.1 CH.27
S1B		DEE 1077 OFF 21.412	4949TCS NO.2 CH.27
S1B		DEE 1078 OFF 21.412	4950TCS NO.3 CH.27
S1B		DEE 1079 OFF 21.406	4951TCS CH.27 VOTED
S1B		MDI 2187 OFF 20.784	2596TCS PULSE OK
S1B		MDI 2187 ON 20.412	2596TCS PULSE OK
S1B		MDI 2113 ON 20.328	2762LOX DOME PRG HIGH PA5227
S1B		MDI 2114 ON 20.328	2763LOX DOME PRG HIGH PA5309
S1B		MDI 2115 ON 20.328	2764LOX DOME PRG HIGH PA5308
S1B		MDI 2116 ON 20.328	2765LOX DOME PRG HIGH PA5307
S1B		MDI 0073 ON 20.328	2953LOX DOME PURGE PRES IND
S1B		LDO 0073 ON 20.276	4212LOX DOME PURGE PRES IND
S1B		MDI 2187 OFF 19.784	2596TCS PULSE OK
S1B		MDI 2187 ON 19.412	2596TCS PULSE OK
S1B		MDI 2117 ON 19.248	2766GG LOX INJ PRG P A5322
S1B		MDI 2118 ON 19.248	2767GG LOX INJ PRG P A5321
S1B		MDI 2119 ON 19.248	2768GG LOX INJ PRG P A5320
S1B		MDI 2120 ON 19.248	2769GG LOX INJ PRG P A5215
S1B		MDI 0072 ON 19.244	2952GG LOX INJ PRG ON IND
S1B		LDO 0072 ON 19.196	4211GG LOX INJ PRG ON IND
S1B		MDI 2187 OFF 18.784	2596TCS PULSE OK
S1B		MDI 2187 ON 18.412	2596TCS PULSE OK
S1B		MDI 2187 OFF 17.784	2596TCS PULSE OK
S1B		MDI 2187 ON 17.412	2596TCS PULSE OK
S1B		DEE 1082 ON 17.412	3293TCS NO.3 CH.20
S1B		DEE 1080 ON 17.412	4957TCS NO.1 CH.20
S1B		DEE 1081 ON 17.412	4958TCS NO.2 CH.20
S1B		DEE 1083 ON 17.408	3294TCS CH.20 VOTED
	IU	MDI 0869 ON 17.404	3557GUIDANCE RELEASE
	IU	MDI 0884 ON 17.400	2079CMD GUIDANCE REL SIM
	IU	MDI 0666 OFF 17.384	3366AZM CONTROL ON IND
	IU	MDI 0673 OFF 17.380	3372ALIGNMENT SYSTEM IND
	IU	LDO 0869 ON 17.332	4654GUIDANCE RELEASE
	IU	LDO 0666 OFF 17.320	4433AZM CONTROL ON IND
	IU	LDO 0673 OFF 17.308	4439ALIGNMENT SYSTEM IND
S1B		DDA 0010 OFF 17.280	5196VK0260-338
S1B		DDA 0001 OFF 17.276	5187VK0251-338
S1B		DDA 0002 OFF 17.272	5188VK0252-338

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S18		DDA 0007 OFF 17.272 5193VK0257-338
S18		DDA 0105 OFF 17.252 5241VK0285-338
S18		DDA 0255 OFF 17.104 1454VK0265-338
S18		DDA 0256 OFF 17.104 1455VK0266-338
S18		DDA 0253 OFF 17.100 1452VK0263-338
S18		DDA 0258 OFF 17.100 1457VK0268-338
S18		DDA 0259 OFF 17.100 1458VK0269-338
S18		MDI 2187 OFF 16.784 2596TCS PULSE OK
S18		MDI 2187 ON 16.412 2596TCS PULSE OK
S18		DEE 1082 OFF 16.412 3293TCS NO.3 CH.20
S18		DEE 1080 OFF 16.412 4957TCS NO.1 CH.20
S18		DEE 1081 OFF 16.412 4958TCS NO.2 CH.20
S18		DEE 1083 OFF 16.408 3294TCS CH.20 VOTED
	IU	LDO 0738 ON 16.264 4863MODE CODE 6 IND
	IU	MDI 0579 ON 16.100 3169LVDA FIRE COMMIT ENABLE
	IU	MDI 0872 ON 16.100 3560IU READY FOR LAUNCH
	IU	MDI 2239 ON 16.100 5022IU READY FOR LAUNCH
	IU	MDI 2240 ON 16.100 5023IU READY FOR LAUNCH
S18		MDO 1316 ON 16.096 2153IU READY BYPASS
S18		MDI 0042 ON 16.096 2860IU READY IND
S18		MDI 0333 ON 16.096 3135PREPARATION COMPLETE
S18		MDI 0153 ON 16.092 3033READY FOR IGNITION
	IU	LDO 0579 ON 16.048 4727LVDA FIRE COMMIT ENABLE
S18		LDO 0042 ON 16.028 4181IU READY IND
S18		LDO 0872 ON 16.020 4657IU READY FOR LAUNCH
S18		LDO 0353 ON 15.980 4617PREPARATION COMPLETE
S18		LDO 0153 ON 15.972 4719READY FOR IGNITION
S18		MDI 2187 OFF 15.784 2596TCS PULSE OK
S18		MDI 2187 ON 15.412 2596TCS PULSE OK
S18		MDI 2187 OFF 14.784 2596TCS PULSE OK
S18		MDI 2187 ON 14.412 2596TCS PULSE OK
S18		MDI 2187 OFF 13.784 2596TCS PULSE OK
S18		MDI 2187 ON 13.412 2596TCS PULSE OK
S18		MDI 2187 OFF 12.784 2596TCS PULSE OK
S18		MDI 2187 ON 12.412 2596TCS PULSE OK
S18		MDI 2187 OFF 11.784 2596TCS PULSE OK
S18		MDI 2187 ON 11.412 2596TCS PULSE OK
S18		MDI 2187 OFF 10.784 2596TCS PULSE OK
S18		MDI 2187 ON 10.412 2596TCS PULSE OK
S18		LDI 1080 ON 10.340 1013ML BLOCK COMPUTER INHB
S18		MDI 2187 OFF 09.784 2596TCS PULSE OK
S18		MDI 2187 ON 09.412 2596TCS PULSE OK
S18		MDI 2187 OFF 08.784 2596TCS PULSE OK
S18		MDI 2187 ON 08.412 2596TCS PULSE OK
S18		DEE 1084 ON 08.412 4959TCS NO.1 CH.28
S18		DEE 1085 ON 08.412 4960TCS NO.2 CH.28

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S1B	DEE 1086 ON	08.412	4961TCS	NO.3 CH.28
S1B	DEE 1087 ON	08.412	4962TCS	CH.28 VOTED
S1B	MDI 0361 ON	08.408	3181TCS	OUTPUT
S1B	LDO 0361 ON	08.348	4265TCS	OUTPUT
S1B	MDI 2187 OFF	07.784	2596TCS	PULSE OK
S1B	DEE 1084 OFF	07.412	4959TCS	NO.1 CH.28
S1B	DEE 1085 OFF	07.412	4960TCS	NO.2 CH.28
S1B	DEE 1086 OFF	07.412	4961TCS	NO.3 CH.28
S1B	DEE 1087 OFF	07.412	4962TCS	CH.28 VOTED
S1B	MDI 0361 OFF	07.408	3181TCS	OUTPUT
S1B	LDO 0361 OFF	07.356	4265TCS	OUTPUT
S1B	MDI 2187 OFF	06.784	2596TCS	PULSE OK
S1B	MDI 2187 OFF	05.784	2596TCS	PULSE OK
S1B	MDI 2187 ON	05.412	2596TCS	PULSE OK
S1B	DEE 1088 ON	05.412	4963TCS	NO.1 CH.29
S1B	DEE 1089 ON	05.412	4964TCS	NO.2 CH.29
S1B	DEE 1090 ON	05.412	4965TCS	NO.3 CH.29
S1B	MDI 1303 ON	05.408	2141PD RSCR	S ENABLE
S1B	DEE 1091 ON	05.408	2500TCS	CH.29 VOTED
S1B	MDI 0361 ON	05.408	3181TCS	OUTPUT
S1B	MDI 0115 OFF	05.404	2995RSCR	1 PD BLOCKED IND
S1B	MDI 0116 OFF	05.404	2996RSCR	2 PD BLOCKED IND
S4B	MDI 1673 OFF	05.404	3065RSCR	2 PROP DISP BLOCKED
S4B	MDI 1674 OFF	05.404	3066RSCR	1 PROP DISP BLOCKED
IU	MDI 0847 OFF	05.384	3544S-IB	CONAX VALVE SAFE
S1B	LDO 0361 ON	05.360	4265TCS	OUTPUT
S1B	LDO 0115 OFF	05.308	4254RSCR	1 PD BLOCKED IND
S1B	LDO 0116 OFF	05.308	4255RSCR	2 PD BLOCKED IND
S4B	LDO 1673 OFF	05.300	4748RSCR	2 PROP DISP BLOCKED
S4B	LDO 1674 OFF	05.296	4749RSCR	1 PROP DISP BLOCKED
IU	LDO 0847 OFF	05.288	4640S-IB	CONAX VALVE SAFE
S1B	MDI 2187 OFF	04.784	2596TCS	PULSE OK
S1B	DEE 1088 OFF	04.416	4963TCS	NO.1 CH.29
S1B	DEE 1089 OFF	04.416	4964TCS	NO.2 CH.29
S1B	DEE 1090 OFF	04.416	4965TCS	NO.3 CH.29
S1B	DEE 1091 OFF	04.412	2500TCS	CH.29 VOTED
S1B	MDI 2187 ON	04.412	2596TCS	PULSE OK
S1B	LDO 0361 OFF	04.360	4265TCS	OUTPUT
S1B	MDI 2187 OFF	03.784	2596TCS	PULSE OK
S1B	DEE 1092 ON	03.512	2501TCS	NO.1 CH.22
S1B	DEE 1093 ON	03.512	2502TCS	NO.2 CH.22
S1B	DEE 1094 ON	03.512	2503TCS	NO.3 CH.22
S1B	DEE 1095 ON	03.508	2504TCS	CH.22 VOTED

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TEST S11 FLT MAL CAT 2 76 11

S1B		MDI 0076 ON	03.508	2956TIME FOR IGN COMD IND
S1B		MDI 0361 ON	03.508	3181TCS OUTPUT
S1B		MDI 2066 ON	03.508	3735IGNITION COMMAND IND
S1B		MDI 0008 OFF	03.504	2827GN2 3000 PSI ORIF BYPASS
S1B		MDI 0350 ON	03.504	3133IGNITION SEQUENCE ARMED
S1B		MDI 0359 ON	03.504	3141TCS IGNITION ENABLE
S1B		MDI 2093 ON	03.504	3749LAUNCH FAIL CUTOFF IND
S1B		MDI 2192 ON	03.504	4616IGN SEQ ARMED
S1B		MDI 2016 OFF	03.504	4988PAR FUEL SPHERES PRES
S4B		MDO 1594 OFF	03.500	1437LH TK GND PREPRES SV OP
S4B		MDO 1595 ON	03.500	1438LH TK PREPRES SV OPEN
S4B		MDO 1602 ON	03.500	2165COLD HE BOT SUP VENT OP
S1B		MDI 2135 ON	03.500	2784FUEL SPHERES VENT V IND
S1B		MDI 2137 OFF	03.500	2786+1D141 ON IND
	IU	MDI 0584 ON	03.500	3207IGNITION CMD
S4B		MDI 1787 OFF	03.500	3817ENG CONT BOT SUP VV CL
S4B		MDI 1788 ON	03.500	3818ENG CONT BOT SUP VV OPEN
S1B		MDI 2017 OFF	03.500	4989PAR CONT SPHERES PRES
S4B		MDI 1717 OFF	03.496	3095LH TK PREPRES SUP VNT CL
S4B		MDI 1726 OFF	03.496	3102COLD HE BOT SUP VENT CL
S4B		MDI 1794 OFF	03.496	3824ENG ST TK SUP VV CLOSED
S4B		MDI 1795 ON	03.496	3825ENG ST TK VV OPEN
S4B		MDI 1955 ON	03.496	3957LH TK GND PREPRES SLV OP
S4B		MDI 1957 ON	03.496	3959COLD HE BOT SUP LINE V O
S1B		LDO 0076 ON	03.440	4215TIME FOR IGN COMD IND
S1B		LDO 0361 ON	03.440	4216TCS OUTPUT
S1B		DDA 2104 OFF	03.420	5177VK0055-602
S1B		LDO 0008 OFF	03.416	4148GN2 3000 PSI ORIF BYPASS
S1B		DEE 1092 OFF	03.412	2501TCS NO.1 CH.22
S1B		DEE 1093 OFF	03.412	2502TCS NO.2 CH.22
S1B		DEE 1094 OFF	03.412	2503TCS NO.3 CH.22
S1B		DEE 1095 OFF	03.412	2504TCS CH.22 VOTED
S1B		DEE 1096 ON	03.412	2505TCS NO.1 CH.33
S1B		DEE 1097 ON	03.412	2506TCS NO.2 CH.33
S1B		DEE 1098 ON	03.412	2507TCS NO.3 CH.33
S1B		MDI 2187 ON	03.412	2596TCS PULSE OK
S1B		MDI 0361 OFF	03.412	3181TCS OUTPUT
S1B		DEE 1099 ON	03.408	2508TCS CH.33 VOTED
S1B		MDI 2169 ON	03.408	2818ENGS 5 + 7 START IGN CMD
S1B		MDI 0342 ON	03.408	3125ENGINES 5 + 7 START IND
S1B		MDI 2196 ON	03.408	4085ENG 5 + 7 START
S1B		DDA 1051 ON	03.380	2531VK0139-001
S1B		DDA 1052 ON	03.380	2532VK0152-008
S1B		DDA 1053 ON	03.380	2533VK0150-007
S1B		DDA 1054 ON	03.380	2534VK0148-006

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S1B	DDA 1056 ON 03.380 2535VK0146-005
S1B	DDA 1057 ON 03.380 2536VK0144-004
S1B	DDA 1059 ON 03.380 2538VK0140-002
S1B	DDA 1060 ON 03.380 2539VK0138-001
S1B	LDO 0359 ON 03.380 4263TCS IGNITION ENABLE
S1B	LDO 0350 ON 03.380 4614IGNITION SEQUENCE ARMED
S1B	DDA 1058 ON 03.376 2537VK0142-003
S1B	MDI 2598 ON 03.376 2640IGNITER ENG 5 SQUIB 1
S1B	MDI 0146 OFF 03.376 3026ENG 7 HYPERGOL INST IND
S1B	MDI 2593 ON 03.376 3877IGNITER ENG 7 SQUIB 2
S1B	MDI 2594 ON 03.376 3878IGNITER ENG 7 SQUIB 1
S1B	MDI 2597 ON 03.376 4013IGNITER ENG 5 SQUIB 2
S1B	MDI 0144 OFF 03.372 3024ENG 5 HYPERGOL INST IND
S1B	LDO 0584 ON 03.372 5010IGNITION CMD
S1B	DEE 1096 OFF 03.312 2505TCS NO.1 CH.33
S1B	DEE 1097 OFF 03.312 2506TCS NO.2 CH.33
S1B	DEE 1098 OFF 03.312 2507TCS NO.3 CH.33
S1B	DEE 1100 ON 03.312 2509TCS NO.1 CH.34
S1B	DEE 1101 ON 03.312 2510TCS NO.2 CH.34
S1B	DEE 1102 ON 03.312 2511TCS NO.3 CH.34
S4B	LDO 1786 OFF 03.312 4482ENG IGN POWER ON
S4B	LDO 1787 ON 03.312 4483ENG CONT BOT SUP VV CL
S1B	DEE 1099 OFF 03.308 2508TCS CH.33 VOTED
S1B	DEE 1103 ON 03.308 2512TCS CH.34 VOTED
S1B	MDI 2170 ON 03.308 2819ENGS 6 + 8 START IGN CMD
S1B	MDI 0343 ON 03.308 3126ENGINES 6 + 8 START IND
S1B	MDI 2169 OFF 03.304 2818ENGS 5 + 7 START IGN CMD
S1B	MDI 2196 OFF 03.304 4085ENG 5 + 7 START
S1B	MDI 2195 ON 03.304 4705ENG 6 + 8 START
S1B	DDA 1051 OFF 03.292 2530VK0141-002
S1B	DDA 1052 OFF 03.292 2531VK0139-001
S1B	DDA 1053 OFF 03.292 2532VK0152-008
S1B	DDA 1054 OFF 03.292 2533VK0150-007
S1B	DDA 1055 OFF 03.292 2534VK0148-006
S1B	DDA 1056 OFF 03.292 2535VK0146-005
S1B	DDA 1057 OFF 03.292 2536VK0144-004
S1B	DDA 1058 OFF 03.292 2537VK0142-003
S1B	DDA 1059 OFF 03.292 2538VK0140-002
S1B	DDA 1060 OFF 03.292 2539VK0138-001
S1B	MDI 2591 ON 03.280 3875IGNITER ENG 8 SQUIB 2
S1B	MDI 2592 ON 03.280 3876IGNITER ENG 8 SQUIB 1
S1B	MDI 2595 ON 03.280 3879IGNITER ENG 6 SQUIB 2
S1B	MDI 2596 ON 03.280 3881IGNITER ENG 6 SQUIB 1
S1B	MDI 0145 OFF 03.276 3025ENG 6 HYPERGOL INST IND
S1B	MDI 0147 OFF 03.276 3027ENG 8 HYPERGOL INST IND
S4B	LDO 1717 OFF 03.264 4778LH TK PREPRES SUP VNT CL

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S4B	LDO 1726	OFF	03.264	4787COLD HE BOT SUP VENT CL
S4B	LDO 1795	ON	03.256	4490ENG ST TK VV OPEN
S4B	LDO 1794	OFF	03.252	4489ENG ST TK SUP VV CLOSED
S4B	LDO 1955	ON	03.220	4685LH TK GND PREPRES SLV OP
S4B	LDO 1957	ON	03.220	4687COLD HE BOT SUP LINE V O
S1B	DEE 1101	OFF	03.212	2510TCS NO.2 CH.34
S1B	DEE 1102	OFF	03.212	2511TCS NO.3 CH.34
S1B	DEE 1104	ON	03.212	2513TCS NO.1 CH.38
S1B	DEE 1105	ON	03.212	2514TCS NO.2 CH.38
S1B	DEE 1106	ON	03.212	2515TCS NO.3 CH.38
S1B	DEE 1103	OFF	03.208	2512TCS CH.34 VOTED
S1B	DEE 1107	ON	03.208	2516TCS CH.38 VOTED
S1B	MDI 2171	ON	03.208	2580ENGS 2 + 4 START IGN CMD
S1B	MDI 0344	ON	03.208	3127ENGINES 2 + 4 START IND
S1B	MDI 2194	ON	03.208	4665ENG 2 + 4 START
S1B	MDI 2170	OFF	03.204	2819ENGS 6 + 8 START IGN CMD
S1B	MDI 2195	OFF	03.204	4705ENG 6 + 8 START
S1B	LDO 0361	OFF	03.200	4265TCS OUTPUT
S1B	LDO 0342	ON	03.192	4606ENGINES 5 + 7 START IND
S1B	MDI 2599	ON	03.188	2641IGNITER ENG 4 SQUIB 2
S1B	MDI 2600	ON	03.188	2642IGNITER ENG 4 SQUIB 1
S1B	MDI 2603	ON	03.188	2645IGNITER ENG 2 SQUIB 2
S1B	MDI 2604	ON	03.188	2646IGNITER ENG 2 SQUIB 1
S1B	MDI 0141	OFF	03.184	3021ENG 2 HYPERGOL INST IND
S1B	MDI 0143	OFF	03.184	3023ENG 4 HYPERGOL INST IND
S1B	DDA 1021	ON	03.180	2480SPARE
S1B	DDA 1022	ON	03.180	2481SPARE
S1B	DDA 1023	ON	03.180	2482VK0178-008
S1B	DDA 1024	ON	03.180	2483VK0177-007
S1B	DDA 1026	ON	03.180	2485VK0175-005
S1B	DDA 1027	ON	03.180	2486VK0174-004
S1B	DDA 1028	ON	03.180	2487VK0173-003
S1B	DDA 1029	ON	03.180	2488VK0172-002
S1B	DDA 1027	ON	03.180	2489VK0171-001
S1B	LDO 0144	OFF	03.152	4583ENG 5 HYPERGOL INST IND
S1B	LDO 0146	OFF	03.152	4585ENG 7 HYPERGOL INST IND
S1B	LDO 0343	ON	03.144	4607ENGINES 6 + 8 START IND
S1B	DEE 1104	OFF	03.112	2513TCS NO.1 CH.38
S1B	DEE 1105	OFF	03.112	2514TCS NO.2 CH.38
S1B	DEE 1106	OFF	03.112	2515TCS NO.3 CH.38
S1B	DEE 1107	OFF	03.112	2516TCS CH.38 VOTED
S1B	DEE 1108	ON	03.112	2517TCS NO.1 CH.39
S1B	DEE 1109	ON	03.112	2518TCS NO.2 CH.39
S1B	DEE 1110	ON	03.112	2519TCS NO.3 CH.39
S1B	DEE 1111	ON	03.108	2560TCS CH.39 VOTED

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S1B	MDI 2186 ON	03.108	2595	ENGS 1+3 START IGN CMD
S1B	MDI 0345 ON	03.108	3128	ENGINES 1 + 3 START IND
S1B	MDI 2193 ON	03.108	4649	ENG 1 + 3 START
S1B	MDI 2171 OFF	03.104	2580	ENGS 2 + 4 START IGN CMD
S1B	MDI 2194 OFF	03.104	4665	ENG 2 + 4 START
S1B	DDA 1011 OFF	03.092	2481	SPARE
S1B	DDA 1022 OFF	03.092	2482	VK0178-008
S1B	DDA 1023 OFF	03.092	2483	VK0177-007
S1B	DDA 1024 OFF	03.092	2483	VK0177-007
S1B	DDA 1026 OFF	03.092	2485	VK0175-005
S1B	DDA 1027 OFF	03.092	2486	VK0174-004
S1B	DDA 1028 OFF	03.092	2487	VK0173-003
S1B	DDA 1029 OFF	03.092	2488	VK0172-002
S1B	DDA 1030 OFF	03.092	2489	VK0171-001
S1B	LDI 0075 ON	03.080	0035	LOX PREVLV 2 CLOSED IND
S1B	LDI 0077 ON	03.080	0037	LOX PREVLV 3 CLOSED IND
S1B	LDI 0081 ON	03.080	0041	LOX PREVLV 5 CLOSED IND
S1B	LDI 0083 ON	03.080	0043	LOX PREVLV 6 CLOSED IND
S1B	LDI 0084 ON	03.080	0044	FUEL PREVLV 7 CLOSED IND
S1B	LDI 0085 ON	03.080	0045	LOX PREVLV 7 CLOSED IND
S1B	LDI 0086 ON	03.080	0046	FUEL PREVLV 8 CLOSED IND
S1B	LDI 0087 ON	03.080	0047	LOX PREVLV 8 CLOSED IND
S1B	LDI 0073 ON	03.080	0518	LOX PREVLV 1 CLOSED IND
S1B	DDA 1091 ON	03.080	4030	VK0098-009
S1B	DDA 1092 ON	03.080	4031	VK0097-009
S1B	DDA 1093 ON	03.080	4032	VK0096-009
S1B	DDA 1094 ON	03.080	4033	VK0095-009
S1B	DDA 1096 ON	03.080	4035	VK0093-009
S1B	DDA 1097 ON	03.080	4036	VK0092-009
S1B	DDA 1098 ON	03.080	4037	VK0091-009
S1B	DDA 1099 ON	03.080	4038	VK0090-009
S1B	DDA 1100 ON	03.080	4039	VK0089-009
S1B	MDI 2601 ON	03.076	2643	IGNITER ENG 3 SQUIB 2
S1B	MDI 2602 ON	03.076	2644	IGNITER ENG 3 SQUIB 1
S1B	MDI 2605 ON	03.076	2647	IGNITER ENG 1 SQUIB 2
S1B	MDI 2607 ON	03.076	2649	IGNITER ENG 1 SQUIB 1
S1B	MDI 0140 OFF	03.076	3020	ENG 1 HYPERGOL INST IND
S1B	MDI 0142 OFF	03.076	3022	ENG 3 HYPERGOL INST IND
S1B	LDO 0147 OFF	03.060	4586	ENG 8 HYPERGOL INST IND
S1B	LDO 0145 OFF	03.056	4584	ENG 6 HYPERGOL INST IND
S1B	LDO 0344 ON	03.048	4608	ENGINES 2 + 4 START IND
S1B	LDO 0143 OFF	03.040	4582	ENG 4 HYPERGOL INST IND
S1B	LDO 0141 OFF	03.036	4580	ENG 2 HYPERGOL INST IND
S1B	DEE 1108 OFF	03.012	2517	TCS NO.1 CH.39
S1B	DEE 1109 OFF	03.012	2518	TCS NO.2 CH.39
S1B	DEE 1110 OFF	03.012	2519	TCS NO.3 CH.39

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S18	DEE 1111	OFF	03.012	2560TCS	CH.39	VOTED
S18	DEE 1112	ON	03.012	2561TCS	NO.1	CH.44
S18	DEE 1113	ON	03.012	2562TCS	NO.2	CH.44
S18	DEE 1114	ON	03.012	2563TCS	NO.3	CH.44
S18	DEE 1115	ON	03.012	2564TCS	CH.44	VOTED
S18	MDI 2221	ON	03.012	2620T-2.59	(TCS)	
S18	MDI 2186	OFF	03.004	2595ENG	1+3	START IGN CMD
S18	MDI 2193	OFF	03.004	4649ENG	1 + 3	START
S18	LDI 0081	OFF	02.996	0041LOX	PREVLV 5	CLOSED IND
S18	LDI 0083	OFF	02.996	0043LOX	PREVLV 6	CLOSED IND
S18	LDI 0085	OFF	02.996	0045LOX	PREVLV 7	CLOSED IND
S18	LDI 0087	OFF	02.996	0047LOX	PREVLV 8	CLOSED IND
S18	DDA 1091	OFF	02.996	4030VK0098-009		
S18	DDA 1092	OFF	02.996	4031VK0097-009		
S18	DDA 1093	OFF	02.996	4032VK0096-009		
S18	DDA 1094	OFF	02.996	4033VK0095-009		
S18	DDA 1096	OFF	02.996	4035VK0093-009		
S18	DDA 1098	OFF	02.996	4037VK0091-009		
S18	DDA 1099	OFF	02.996	4038VK0090-009		
S18	DDA 1100	OFF	02.996	4039VK0089-009		
S18	LDI 0075	OFF	02.992	0035LOX	PREVLV 2	CLOSED IND
S18	LDI 0077	OFF	02.992	0037LOX	PREVLV 3	CLOSED IND
S18	LDI 0084	OFF	02.992	0044FUEL	PREVLV 7	CLOSED IND
S18	LDI 0086	OFF	02.992	0046FUEL	PREVLV 8	CLOSED IND
S18	LDI 0073	OFF	02.992	0518LOX	PREVLV 1	CLOSED IND
S18	DDA 1097	OFF	02.992	4036VK0092-009		
S18	DEE 1112	OFF	02.912	2561TCS	NO.1	CH.44
S18	DEE 1113	OFF	02.912	2562TCS	NO.2	CH.44
S18	DEE 1114	OFF	02.912	2563TCS	NO.3	CH.44
S18	DEE 1115	ON	02.912	2564TCS	CH.44	VOTED
S18	LDO 0345	ON	02.904	4609ENGINES	1 + 3	START IND
S18	LDO 0140	OFF	02.892	4579ENG	1	HYPERGOL INST IND
S18	LDO 0142	OFF	02.892	4581ENG	3	HYPERGOL INST IND
S18	MDI 2187	OFF	02.784	2596TCS	PULSE	OK
S18	MDI 2187	ON	02.412	2596TCS	PULSE	OK
S18	MDO 0703	ON	02.076	1510IGNITION		
IU	MDI 0604	ON	02.076	3304ENG	NO 2	THRUST OK NO 1
IU	MDI 0776	ON	02.076	3476ENG	NO. 7	THRUST OK NO.1
IU	MDI 0810	ON	02.076	3510ENG	NO. 7	THRUST OK NO.3
IU	MDI 0811	ON	02.076	3511ENG	NO. 8	THRUST OK NO.1
IU	MDI 0814	ON	02.076	3514ENG	NO. 8	THRUST OK NO.2
IU	MDI 0833	ON	02.076	3533ENG	NO. 8	THRUST OK NO.3
S18	MDI 2590	ON	02.076	3874IGNITION		
S18	MDI 0168	ON	02.072	2650COM	ENG 1	THRUST RELAY 1
S18	MDI 0169	ON	02.072	2651COM	ENG 2	THRUST RELAY 1
S18	MDI 0170	ON	02.072	2690COM	ENG 3	THRUST RELAY 1

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S1B	MDI 0171 ON	02.072	2691COM	ENG 4	THRUST RELAY 1
S1B	MDI 0172 ON	02.072	2692COM	ENG 5	THRUST RELAY 1
S1B	MDI 0173 ON	02.072	2693COM	ENG 6	THRUST RELAY 1
S1B	MDI 0174 ON	02.072	2694COM	ENG 7	THRUST RELAY 1
S1B	MDI 0175 ON	02.072	2695COM	ENG 8	THRUST RELAY 1
S1B	MDI 0176 ON	02.072	2696COM	ENG 1	THRUST RELAY 3
S1B	MDI 0177 ON	02.072	2697COM	ENG 2	THRUST RELAY 3
S1B	MDI 0178 ON	02.072	2698COM	ENG 3	THRUST RELAY 3
S1B	MDI 0179 ON	02.072	2699COM	ENG 4	THRUST RELAY 3
S1B	MDI 0180 ON	02.072	3050COM	ENG 5	THRUST RELAY 3
S1B	MDI 0181 ON	02.072	3051COM	ENG 6	THRUST RELAY 3
S1B	MDI 0182 ON	02.072	3052COM	ENG 7	THRUST RELAY 3
S1B	MDI 0183 ON	02.072	3053COM	ENG 8	THRUST RELAY 3
S1B	MDI 0184 ON	02.072	3054COM	ENG 1	THRUST RELAY 2
S1B	MDI 0185 ON	02.072	3055COM	ENG 2	THRUST RELAY 2
S1B	MDI 0186 ON	02.072	3056COM	ENG 3	THRUST RELAY 2
S1B	MDI 0187 ON	02.072	3057COM	ENG 4	THRUST RELAY 2
S1B	MDI 0188 ON	02.072	3058COM	ENG 5	THRUST RELAY 2
S1B	MDI 0189 ON	02.072	3059COM	ENG 6	THRUST RELAY 2
S1B	MDI 0190 ON	02.072	3227COM	ENG 7	THRUST RELAY 2
S1B	MDI 0191 ON	02.072	3228COM	ENG 8	THRUST RELAY 2
IU	MDI 0601 ON	02.072	3301ENG	NO 1	THRUST OK NO 1
IU	MDI 0602 ON	02.072	3302ENG	NO 1	THRUST OK NO 2
IU	MDI 0603 ON	02.072	3303ENG	NO 1	THRUST OK NO 3
IU	MDI 0605 ON	02.072	3305ENG	NO 2	THRUST OK NO 2
IU	MDI 0606 ON	02.072	3306ENG	NO 2	THRUST OK NO 3
IU	MDI 0607 ON	02.072	3307ENG	NO 3	THRUST OK NO 1
IU	MDI 0608 ON	02.072	3308ENG	NO 3	THRUST OK NO 2
IU	MDI 0609 ON	02.072	3309ENG	NO 3	THRUST OK NO 3
IU	MDI 0610 ON	02.072	3310ENG	NO 4	THRUST OK NO 1
IU	MDI 0611 ON	02.072	3311ENG	NO 4	THRUST OK NO 2
IU	MDI 0612 ON	02.072	3312ENG	NO 4	THRUST OK NO 3
IU	MDI 0613 ON	02.072	3313ENG	NO 5	THRUST OK NO 1
IU	MDI 0614 ON	02.072	3314ENG	NO 5	THRUST OK NO 2
IU	MDI 0615 ON	02.072	3315ENG	NO 5	THRUST OK NO 3
IU	MDI 0762 ON	02.072	3462ENG	NO. 6	THRUST OK NO.1
IU	MDI 0764 ON	02.072	3464ENG	NO. 6	THRUST OK NO.2
IU	MDI 0775 ON	02.072	3475ENG	NO. 6	THRUST OK NO.3
IU	MDI 0804 ON	02.072	3504ENG	NO. 7	THRUST OK NO.2
S1B	MDI 2070 ON	02.064	3738ENG	NO 2	THRUST OK IND
IU	MDI 0600 OFF	02.060	3300ONE	ENGINE OUT A	
IU	MDI 0662 OFF	02.060	3362ONE	ENGINE OUT B	
S1B	MDI 2069 ON	02.060	3737ENG	NO 1	THRUST OK IND
S1B	MDI 2071 ON	02.060	3739ENG	NO 3	THRUST OK IND
S1B	MDI 2072 ON	02.060	3740ENG	NO 4	THRUST OK IND
S1B	MDI 2073 ON	02.060	3741ENG	NO 5	THRUST OK IND

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S1B	MDI 2074 ON	02.060	3742ENG NO 6 THRUST OK IND
S1B	MDI 2075 ON	02.060	3743ENG NO 7 THRUST OK IND
S1B	MDI 2076 ON	02.060	3744ENG NO 8 THRUST OK IND
S1B	MDI 2077 ON	02.060	3745ALL ENGINES RUNNING
S1B	DDA 1049 ON	02.056	2528VK0145-004
S1B	DDA 1050 ON	02.056	2529VK0143-003
S1B	MDI 0038 OFF	02.056	2856COMPONENT HEATERS ON IND
S1B	MDI 0039 OFF	02.056	2857FUEL ADDITIVE HEATERS IN
S1B	DDA 1046 ON	02.052	2525VK0151-007
S1B	DDA 1047 ON	02.052	2526VK0149-006
S1B	DDA 1048 ON	02.052	2527VK0147-005
S1B	MDI 2121 OFF	02.052	2770TC FUEL INJ PRG P A5317
S1B	MDI 2122 OFF	02.052	2771TC FUEL INJ PRG P A53 8
S1B	MDI 2123 OFF	02.052	2772TC FUEL INJ PRG P A5319
S1B	MDI 2124 OFF	02.052	2773TC FUEL INJ PRG P A5203
S1B	MDI 0071 OFF	02.052	2951TC FUEL INJ PRG ON IND
S1B	MDI 0074 O	02.052	2954TC FUEL INJ PRG VENT IND
S1B	MDI 2064 ON	02.052	3733TC FUEL PURGE VENT A6300
S1B	MDI 2098 O	02.052	3754TC FUEL PURGE VENT A6301
S1B	DDA 2003 OFF	02.048	4062VK0009-602
S1B	DDA 1051 ON	02.044	2530VK0141-002
S1B	DDA 1052 ON	02.044	2531VK0139-001
S1B	DDA 1053 ON	02.044	2532VK0152-008
S1B	DDA 1054 ON	02.044	2533VK0150-007
S1B	DDA 1055 ON	02.044	2534VK0148-006
S1B	DDA 1056 ON	02.044	2535VK0146-005
S1B	DDA 1057 ON	02.044	2536VK0144-004
S1B	DDA 1058 ON	02.044	2537VK0142-003
S1B	DDA 1059 ON	02.044	2538VK0140-002
S1B	DDA 1060 ON	02.044	2539VK0138-001
S1B	DDA 2038 OFF	02.020	4089VK0011-602
S1B	DDA 2039 OFF	02.020	4090VK0010-602
S1B	DDA 2037 OFF	02.016	4088VK0012-602
S1B	DDA 1023 ON	02.012	2482VK0178-008
S1B	DDA 1024 ON	02.012	2483VK0177-007
S1B	DDA 1025 ON	02.012	2484VK0176-006
S1B	DDA 1026 ON	02.012	2485VK0175-005
S1B	DDA 1027 ON	02.012	2486VK0174-004
S1B	DDA 1028 ON	02.012	2487VK0173-003
S1B	DDA 1029 O	02.012	2488VK0172-002
S1B	DDA 1030 ON	02.012	2489VK0171-001
S1B	LDO 0168 ON	02.012	4218COM ENG 1 THRUST RELAY 1
S1B	LDO 0169 ON	02.012	4219COM ENG 2 THRUST RELAY 1
S1B	LDO 0170 ON	02.012	4290COM ENG 3 THRUST RELAY 1
S1B	LDO 0171 O	02.012	4291COM ENG 4 THRUST RELAY 1
S1B	LDO 0172 O	02.012	4292COM ENG 5 THRUST RELAY 1

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S1B		LDO 0173 ON	02.012	4293COM	ENG 6	THRUST RELAY 1
S1B		LDO 0174 ON	02.012	4296COM	ENG 7	THRUST RELAY 1
S1B		LDO 0175 ON	02.012	4444COM	ENG 8	THRUST RELAY 1
S1B		LDO 0176 ON	02.012	4445COM	ENG 1	THRUST RELAY 3
S1B		LDO 0177 ON	02.012	4449COM	ENG 2	THRUST RELAY 3
S1B		LDO 0179 ON	02.012	4451COM	ENG 4	THRUST RELAY 3
S1B		LDO 0180 ON	02.012	4452COM	ENG 5	THRUST RELAY 3
S1B		DDD 4453 ON	02.012	4453SPARE	12P	2003
S1B		LDO 0182 ON	02.012	4471COM	ENG 7	THRUST RELAY 3
S1B		LDO 0183 ON	02.012	4472COM	ENG 8	THRUST RELAY 3
S1B		LDO 0184 ON	02.012	4473COM	ENG 1	THRUST RELAY 2
S1B		LDO 0186 ON	02.012	4569COM	ENG 3	THRUST RELAY 2
S1B		LDO 0187 ON	02.012	4600COM	ENG 4	THRUST RELAY 2
S1B		LDO 0188 ON	02.012	4726COM	ENG 5	THRUST RELAY 2
S1B		LDO 0189 ON	02.012	4782COM	ENG 6	THRUST RELAY 2
S1B		LDO 0190 ON	02.012	4783COM	ENG 7	THRUST RELAY 2
S1B		LDO 0191 ON	02.012	4952COM	ENG 8	THRUST RELAY 2
	IU	LDO 0601 ON	02.004	4368ENG	NO 1	THRUST OK NO 1
	IU	LDO 0602 ON	02.004	4369ENG	NO 1	THRUST OK NO 2
	IU	LDO 0603 ON	02.004	4370ENG	NO 1	THRUST OK NO 3
	IU	LDO 0604 ON	02.004	4371ENG	NO 2	THRUST OK NO 1
	IU	LDO 0605 ON	02.004	4372ENG	NO 2	THRUST OK NO 2
	IU	LDO 0606 ON	02.004	4373ENG	NO 2	THRUST OK NO 3
	IU	LDO 0607 ON	02.004	4374ENG	NO 3	THRUST OK NO 1
	IU	LDO 0608 ON	02.004	4375ENG	NO 3	THRUST OK NO 2
	IU	LDO 0609 ON	02.004	4376ENG	NO 3	THRUST OK NO 3
	IU	LDO 0610 ON	02.004	4377ENG	NO 4	THRUST OK NO 1
	IU	LDO 0612 ON	02.004	4379ENG	NO 4	THRUST OK NO 3
	IU	LDO 0613 ON	02.004	4380ENG	NO 5	THRUST OK NO 1
	IU	LDO 0614 ON	02.004	4381ENG	NO 5	THRUST OK NO 2
	IU	LDO 0615 ON	02.004	4382ENG	NO 5	THRUST OK NO 3
	IU	LDO 0762 ON	01.992	4886ENG	NO. 6	THRUST OK NO.1
	IU	LDO 0764 ON	01.992	4888ENG	NO. 6	THRUST OK NO.2
S1B		DDA 1031 ON	01.980	2490VK0153-008		
	IU	LDO 0775 ON	01.956	4899ENG	NO. 6	THRUST OK NO.3
	IU	LDO 0776 ON	01.956	4900ENG	NO. 7	THRUST OK NO.1
	IU	LDO 0804 ON	01.948	4627ENG	NO. 7	THRUST OK NO.2
	IU	LDO 0810 ON	01.948	4633ENG	NO. 7	THRUST OK NO.3
	IU	LDO 0811 ON	01.948	4634ENG	NO. 8	THRUST OK NO.1
	IU	LDO 0814 ON	01.948	4635ENG	NO. 8	THRUST OK NO.2
	IU	LDO 0833 ON	01.936	4636ENG	NO. 8	THRUST OK NO.3
S1B		LDO 0038 OFF	01.896	4177COMPONENT	HEATERS ON	IND
S1B		LDO 0039 OFF	01.896	4178FUEL	ADDITIVE HEATERS IN	
	IU	LDO 0600 OFF	01.888	4367ONE	ENGINE OUT A	
	IU	LDO 0662 OFF	01.880	4429ONE	ENGINE OUT B	
S1B		LDO 0071 OFF	01.868	4210TC	FUEL INJ PRG ON	IND

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S1B	LDO 0074 ON	01.836	4213TC FUEL INJ PRG VENT IND
S1B	MDI 2187 OFF	01.784	2596TCS PULSE OK
S1B	MDI 2187 ON	01.412	2596TCS PULSE OK
S1B	MDI 2187 OFF	00.784	2596TCS PULSE OK
S1B	MDI 2080 ON	00.624	3236TMR 1 THRUST CHK
S1B	DEE 1116 ON	00.612	2565TCS NO.1 CH.42
S1B	DEE 1117 ON	00.612	2566TCS NO.2 CH.42
S1B	DEE 1118 ON	00.612	2567TCS NO.3 CH.42
S1B	MDI 2078 ON	00.608	3234TMR 2 THRUST CHK
S1B	MDI 2079 ON	00.608	3235TMR 1 + 2 THRUST CHK
S1B	MDI 2082 ON	00.608	3285TCS + TMR 2 THRUST CHK
S1B	MDI 2067 ON	00.608	3736TIME FOR THRUST CHECK
S1B	MDI 2092 ON	00.608	3748TCS + TMR 1 THRUST CHK
S1B	MDI 2175 ON	00.604	2584?1D34 SUPERVISION
S1B	MDI 0058 OFF	00.604	2876READY FOR SIB PWR XFER
S1B	MDI 0090 OFF	00.604	2970VEHICLE CUTOFF SAFE
S1B	MDI 0059 OFF	00.600	2877READY FOR SEQ PWR XFER
S1B	DDA 1043 ON	00.556	2522VK0208-009
S1B	DDA 1042 ON	00.552	2521VK0207-009
S1B	LDO 0058 OFF	00.528	4197READY FOR SIB PWR XFER
S1B	LDO 0090 OFF	00.516	4229VEHICLE CUTOFF SAFE
S1B	DEE 1116 OFF	00.512	2565TCS NO.1 CH.42
S1B	DEE 1117 OFF	00.512	2566TCS NO.2 CH.42
S1B	DEE 1118 OFF	00.512	2567TCS NO.3 CH.42
S1B	LDO 0059 OFF	00.464	4198READY FOR SEQ PWR XFER
S1B	EST 19 42	18.208	
S1B	LDI 0981 OFF	18.208	0461COUNT CLOCK COUNTING
S1B	LDI 0982 ON	18.208	0462COUNT CLOCK HOLDING
S1B	MDI 2083 ON	18.220	3286TMR 2 TIME FOR COMMIT
S1B	MDI 2084 ON	18.224	3287TMR 1+2 TIME FOR COMMIT
S1B	MDI 2086 ON	18.224	3289TMR 1 TIME FOR COMMIT
S1B	DEE 1120 ON	18.228	2569TCS NO.1 CH.43
S1B	DEE 1121 ON	18.228	2570TCS NO.2 CH.43
S1B	DEE 1122 ON	18.228	2571TCS NO.3 CH.43
S1B	MDI 2187 ON	18.228	2596TCS PULSE OK
S1B	MDI 0040 ON	18.228	2858TIME FOR COMMIT IND
S1B	MDI 2093 OFF	18.228	3749LAUNCH FAIL CUTOFF IND
S1B	MDI 2197 ON	18.228	4050COMMIT
S1B	MDI 2198 ON	18.228	4051COMMIT LOCKUP
S1B	MDI 2199 ON	18.228	4052COMMIT LOCKUP
S1B	MDO 1333 OFF	18.232	1390INDICATION BUS ON
S1B	DEE 1123 ON	18.232	2574TCS CH.43 VOTED
S1B	MDI 2210 ON	18.232	2602TIME FOR COMMIT(TCS)
S1B	MDI 2781 ON	18.232	2612COMMIT

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	IU	MDI 2782 ON 18.232 2613COMMIT
S1B		MDI 0048 OFF 18.232 2866FUEL PRESSG VLV NO 1 CLS
S1B		MDI 0049 OFF 18.232 2867FUEL PRESSG VLV NO 2 CLS
S1B		MDI 2085 ON 18.232 3288TMR 1+TCS TIME FOR CMT
S1B		MDI 2087 ON 18.232 3290TMR 2+TCS TIME FOR CMT
	IU	MDI 1713 OFF 18.232 3402READY FOR POWER IND
	IU	MDO 1856 OFF 18.236 1649STAGE POWER ON COMM
	IU	DEE 3797 ON 18.236 5159ENG OUT 3 ENABLE
S4B		MDI 2644 OFF 18.240 2639FWD BUS NO 1 VOLTAGE OK
S4B		MDI 2649 OFF 18.240 2704FWD BUS NO 2 VOLTAGE OK
S4B		MDI 2650 OFF 18.240 2705AFT BUS NO 1 VOLTAGE OK
S4B		MDI 2654 OFF 18.240 2709AFT BUS NO 2 VOLTAGE OK
	IU	MDO 1887 OFF 18.240 2880ALIGN SYSTEM ON
S4B		MDI 1730 OFF 18.240 3106LOX TANK PRESSURIZED
	IU	MDI 0655 ON 18.240 3352PUMP PRES SWITCH ACT IND
	IU	MDI 0678 OFF 18.240 3377SYSTEM READY ON IND
	IU	MDI 0780 OFF 18.240 3480IU READY FOR PT IND
S4B		MDI 1938 OFF 18.240 3944LH TANK PRES COMMAND
S4B		MDI 1946 OFF 18.240 3952LH TANK PRESSURIZED
	IU	DEE 3791 ON 18.240 5157ENG OUT 1 ENABLE
	IU	DEE 3796 ON 18.240 5158ENG OUT 2 ENABLE
S1B		MDO 0554 OFF 18.244 1821FUEL SPHERES PRESSURIZE
	IU	MDO 0884 OFF 18.244 2079CMD GUIDANCE REL SIM
	IU	MDO 0887 OFF 18.244 2082PREP FOR GUID REL SIM
S1B		MDO 1277 OFF 18.244 2115HEATERS ON
S1B		MDI 2211 OFF 18.244 2603+1D131 ON IND
S1B		MDI 0060 OFF 18.244 2940IU READY FOR PWR XFER
	IU	MDI 1844 ON 18.244 3061ULL RKT FIR UNIT ENABLE
S1B		MDO 0560 OFF 18.256 1827GG LOX INJECTOR PURGE ON
S1B		MDI 2185 OFF 18.256 2594COMMIT IND
S1B		MDI 2164 OFF 18.256 2813IGNITION ARM
S1B		MDI 2165 OFF 18.256 2814IGNITION ARM
S1B		MDI 0040 OFF 18.256 2858TIME FOR COMMIT IND
S1B		MDI 0046 OFF 18.256 2874PROPELLANTS PRES IND
S1B		MDI 0064 OFF 18.256 2944TIME FOR PWR XFER IND
S1B		MDI 0017 OFF 18.256 2947TIME FOR ENG PURGE IND
S1B		MDI 0076 OFF 18.256 2956TIME FOR IGN COMD IND
S1B		MDI 0159 OFF 18.256 3039LAUNCH INDICATION
S1B		MDI 0342 OFF 18.256 3125ENGINES 5 + 7 START IND
S1B		MDI 0343 OFF 18.256 3126ENGINES 6 + 8 START IND
S1B		MDI 0344 OFF 18.256 3127ENGINES 2 + 4 START IND
S1B		MDI 0345 OFF 18.256 3128ENGINES 1 + 3 START IND
S1B		MDI 0353 OFF 18.256 3135PREPARATION COMPLETE
S1B		MDI 0556 OFF 18.256 3162LOX LEAK NOT FAILED
S1B		MDI 2078 OFF 18.256 3234TMR 2 THRUST CHK
S1B		MDI 2079 OFF 18.256 3235TMR 1 + 2 THRUST CHK

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S1B		MDI 2080	OFF	18.256	3236TMR 1 THRUST CHK
S1B		MDI 2082	OFF	18.256	3285TCS + TMR 2 THRUST CHK
S1B		MDI 2083	OFF	18.256	3286TMR 2 TIME FOR COMMIT
S1B		MDI 2084	OFF	18.256	3287TMR 1+2 TIME FOR COMMIT
S1B		MDI 2085	OFF	18.256	3288TMR 1+TCS TIME FOR CMT
S1B		MDI 2086	OFF	18.256	3289TMR 1 TIME FOR COMMIT
S1B		MDI 2087	OFF	18.256	3290TMR 2+TCS TIME FOR CMT
S1B		MDI 2067	OFF	18.256	3736TIME FOR THRUST CHECK
S1B		MDI 2092	OFF	18.256	3748TCS + TMR 1 THRUST CHK
S1B		MDI 2197	OFF	18.256	4050COMMIT
S1B		MDI 2192	OFF	18.256	4616IGN SEQ ARMED
S1B	06	MDI 2051	OFF	18.260	4990+1D161 ON IND
S4B		MDI 1593	OFF	18.264	1436STAGE BAT. MON ENABLE
S1B		MDI 0562	OFF	18.264	1829LOX DOME PURGE PRES ON
S1B		MDI 1280	OFF	18.264	2118TC FUEL INJECTOR PRG ON
S1B		MDI 2113	OFF	18.264	2762LOX DOME PRG HIGH PA5227
S1B		MDI 2114	OFF	18.264	2763LOX DOME PRG HIGH PA5309
S1B		MDI 2115	OFF	18.264	2764LOX DOME PRG HIGH PA5308
S1B		MDI 2116	OFF	18.264	2765LOX DOME PRG HIGH PA5307
S1B		MDI 2117	OFF	18.264	2766GG LOX INJ PRG P A5322
S1B		MDI 2118	OFF	18.264	2767GG LOX INJ PRG P A5321
S1B		MDI 2119	OFF	18.264	2768GG LOX INJ PRG P A5320
S1B		MDI 2120	OFF	18.264	2769GG LOX INJ PRG P A5215
S1B		MDI 2167	OFF	18.264	2816S + A BOX ARMED
S1B		MDI 0051	OFF	18.264	2869TIME TO END LOX BBLG IND
S1B		MDI 0051	OFF	18.264	2941S-IVR READY FOR PWR XFER
S1B		MDI 0072	OFF	18.264	2952GG LOX INJ PRG ON IND
S1B		MDI 0073	OFF	18.264	2953LOX DOME PURGE PRES IND
S1B		MDI 0151	OFF	18.264	3031IGNITION ARMED IND
S1B		MDI 0153	OFF	18.264	3033READY FOR IGNITION
	IU	MDI 0577	OFF	18.264	3205PRES SW REACTIVATE T-47
	IU	MDI 0869	OFF	18.264	3557GUIDANCE RELEASE
	IU	MDI 0870	OFF	18.264	3558GUIDANCE ALERT
S4B		MDI 1838	OFF	18.264	39224D30 ON
S4B		MDI 1839	OFF	18.264	39234D20 ON
S4B		MDI 1840	OFF	18.264	39244D10 ON
S4B		MDI 1841	OFF	18.264	39254D40 ON
S1B		MDI 0149	OFF	18.268	3029IGN SEQUENCING READY IND
S1B		LDO 0040	ON	18.300	4179TIME FOR COMMIT IND
S1B		MDI 2163	ON	18.320	3028IGN SOURCE VOLTAGE OK
S1B		MDI 2163	ON	18.324	2812IGNITION SAFE INDICATION
S1B		LDO 0048	OFF	18.396	4187FUEL PRESSG VLV NO 1 CLS
S1B		LDO 0049	OFF	18.396	4188FUEL PRESSG VLV NO 2 CLS
	IU	LDO 0703	OFF	18.408	4829READY FOR POWER IND
	IU	LDO 0655	ON	18.472	4422PUMP PRES SWITCH ACT IND
S1B		LDO 0060	OFF	18.484	4199IU READY FOR PWR XFER

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S1B		DDA 0113 ON 18.484 5245VK0221-337
S1B		DDA 0114 ON 18.484 5246VK0222-337
	IU	LDO 0678 OFF 18.492 4804SYSTEM READY ON IND
	IU	LDO 0780 OFF 18.504 4904IU READY FOR PT IND
S1B		LDO 0342 OFF 18.536 4606ENGINES 5 + 7 START IND
S1B		LDO 0344 OFF 18.536 4608ENGINES 2 + 4 START IND
S1B		LDO 0345 OFF 18.536 4609ENGINES 1 + 3 START IND
S1B		LDO 0343 OFF 18.540 4607ENGINES 6 + 8 START IND
S1B		LDO 0343 OFF 18.540 4617PREPARATION COMPLETE
S1B		LDO 0558 OFF 18.548 4722LOX LEAK NOT FAILED
S1B		LDO 0040 OFF 18.560 4179TIME FOR COMMIT IND
S1B		LDO 0051 OFF 18.568 4190TIME TO END LOX BBLG IND
S1B		LDO 0056 OFF 18.568 4195PROPELLANTS PRESD IND
S1B		LDO 0064 OFF 18.568 4203TIME FOR PWR XFER IND
S1B		LDO 0067 OFF 18.568 4206TIME FOR ENG PURGE IND
S1B		LDO 0076 OFF 18.604 4215TIME FOR IGN COMD IND
S1B		LDO 0159 OFF 18.612 4593LAUNCH INDICATION
S1B		LDO 0153 OFF 18.612 4719READY FOR IGNITION
	IU	LDO 0577 OFF 18.624 4976PRES SW REACTIVATE T-47
S1B		LDO 0061 OFF 18.632 4200S-IVR READY FOR PWR XFER
S1B		LDO 0072 OFF 18.668 4211GG LOX INJ PRG ON IND
S1B		LDO 0073 OFF 18.668 4212LOX DOME PURGE PRES IND
S1B		LDO 0151 OFF 18.676 4590IGNITION ARMED IND
	IU	LDO 0869 OFF 18.688 4654GUIDANCE RELEASE
	IU	LDO 0870 OFF 18.688 4655GUIDANCE ALERT
S1B		LDO 0149 OFF 18.696 4588IGN SEQUENCING READY IND
S1B		LDO 0148 OFF 18.732 4587IGN SOURCE VOLTAGE OK
	S4B	LDO 1669 ON 18.744 4744ULL PKT FIR UNIT ENABLE
	S4B	LDO 1730 OFF 18.756 4791LOX TANK PRESSURIZED
	S4B	LDO 1938 OFF 18.796 4552LH TANK PRES COMMAND
	S4B	LDO 1946 OFF 18.804 4680LH TANK PRESSURIZED
S1B		MDI 2187 OFF 18.856 2596TCS PULSE OK
	S4B	LDO 1838 OFF 18.896 45294D30 ON
	S4B	LDO 1839 OFF 18.896 45304D20 ON
	S4B	LDO 1840 OFF 18.896 45314D10 ON
	S4B	LDO 1841 OFF 18.896 45324D40 ON
S1B		DEE 1120 OFF 19.228 2569TCS NO.1 CH.43
S1B		DEE 1121 OFF 19.228 2570TCS NO.2 CH.43
S1B		DEE 1122 OFF 19.228 2571TCS NO.3 CH.43
S1B		MDI 2187 ON 19.228 2596TCS PULSE OK
S1B		DEE 1123 OFF 19.232 2574TCS CH.43 VOTED
S1B		MDI 2187 OFF 19.356 2596TCS PULSE OK
S1B		LDI 1070 ON 20.092 0778SIMULATE LIFT-OFF ENABLE
	IU	MDO 0886 ON 20.100 2081CMD LIFTOFF A SIM
	IU	MDO 1804 ON 20.100 2260S-IB BURN SUB ON
S1B		MDO 0826 ON 20.100 2458CMD LIFTOFF B SIM

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TEST SIM FLT MAL TAT 11 11

	IU	MDI 2250 ON	20.100	2624	COMMAND/MEAS L/O SIM A
	IU	MDI 2251 ON	20.100	2625	COMMAND/MEAS L/O SIM B
	IU	MDI 0785 ON	20.100	3485	SIM LIFTOFF IND
	IU	MDI 0786 OFF	20.100	3486	LO COMM BLOCKED IND
	IU	MDI 0853 ON	20.100	3546	C.A.T OPERATE
S18		MDI 2176 ON	20.104	2585	LIFTOFF
S18		MDI 2616 ON	20.104	2658+1D11	AT LIFTOFF
S18		MDI 2619 ON	20.104	2661+1D11	AT LIFTOFF
S18		MDI 2059 ON	20.104	3729	NO. 1 STAGE PWR XFER INT
S18		MDI 2060 ON	20.104	3730	NO. 2 STAGE PWR XFER INT
S18		LDI 0972 ON	20.108	0521	LIFTOFF
S4B		MDO 1611 ON	20.108	1571	ULL ROCKET SYS ENABLE ON
	IU	LDI 0982 OFF	20.112	0462	COUNT CLOCK HOLDING
	IU	ESI	25.118		
S18 S4B	IU	CDC 27 38	57.000		
	IU	LDI 0981 ON	57.000	0461	COUNT CLOCK COUNTING
	IU	LDO 0785 ON	57.048	4908	SIM LIFTOFF IND
	IU	LDO 0786 OFF	57.048	4909	LO COMM BLOCKED IND
	IU	MDI 0579 OFF	57.052	3169	LVDA FIRE COMMIT ENABLE
S18		DDA 1042 OFF	57.056	2521	VK0207-009
S18		DDA 1043 OFF	57.056	2522	VK0208-009
S18		MDI 2187 ON	57.112	2596	TCS PULSE OK
	IU	LDO 0579 OFF	57.168	4727	LVDA FIRE COMMIT ENABLE
S18		MDI 2187 OFF	57.740	2596	TCS PULSE OK
S18		MDO 0715 OFF	58.016	1522	ENG 1 TOK 1
S18		MDI 0168 OFF	58.016	2650	COM ENG 1 THRUST RELAY 1
	IU	MDI 0601 OFF	58.016	3301	ENG NO 1 THRUST OK NO 1
S18		MDI 2069 OFF	58.020	3737	ENG NO 1 THRUST OK IND
S18		DDA 1060 OFF	58.064	2539	VK0138-001
	IU	LDO 0601 OFF	58.080	4348	ENG NO 1 THRUST OK NO 1
S18		LDO 0168 OFF	58.092	4218	COM ENG 1 THRUST RELAY 1
S18		MDI 2187 ON	58.112	2596	TCS PULSE OK
S18		MDO 0716 OFF	58.164	1522	ENG 1 TOK 2
S18		MDI 0184 OFF	58.164	3054	COM ENG 1 THRUST RELAY 2
	IU	MDI 0602 OFF	58.164	3302	ENG NO 1 THRUST OK NO 2
	IU	MDI 0600 ON	58.172	3300	ONE ENGINE OUT A
	IU	MDI 0662 ON	58.172	3362	ONE ENGINE OUT B
S18		MDI 2077 OFF	58.172	3745	ALL ENGINES RUNNING
S18		DDA 2003 ON	58.228	2521	VK0207-009
S18		DDA 1052 OFF	58.232	2522	VK0208-009
S18		LDO 0184 OFF	58.236	4473	COM ENG 1 THRUST RELAY 2
	IU	LDO 0602 OFF	58.248	4369	ENG NO 1 THRUST OK NO 2
S18		DDA 2039 ON	58.252	4090	VK0010-002
	IU	LDO 0600 ON	58.264	4367	ONE ENGINE OUT A
	IU	LDO 0662 ON	58.304	4429	ONE ENGINE OUT B
S18		MDI 2187 OFF	58.740	2596	TCS PULSE OK

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TEST SIM FLT MAL OAT RUN /3

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	IU	MDI 0852 OFF	58.980	3545C.A.T. ZERO
	IU	MDI 0898 OFF	58.980	3585FLT CONTROL SYS READY
	IU	LDO 0852 OFF	59.032	4641C.A.T. ZERO
S4B		LDO 0898 OFF	59.040	4742FLT CONTROL SYS READY
S1B		MDI 2187 ON	59.112	2596TCS PULSE OK
S1B		MDI 2108 ON	59.552	32917.5 SEC LAUNCH FAIL TMR
S1B		MDI 0093 ON	59.556	29737.5 SEC LAUNCH FAIL TMR
S1B		LDO 0093 ON	59.604	42327.5 SEC LAUNCH FAIL TMR
S1B		MDI 2187 OFF	59.740	2596TCS PULSE OK
S1B	IU	MDI 2304 ON	59.812	3764S-1B STAGE SEL
	IU	LDI 1101 ON	59.820	0515S-1B STAGE SELECTOR
S1B		MDI 0041 OFF	59.820	2859FLIGHT SEQ ZERO IND
	IU	MDI 0816 OFF	59.820	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	59.820	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	59.820	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF	59.820	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	59.820	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 OFF	59.820	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2090 ON	59.820	5165VXK0005-603
	IU	LDI 1090 ON	59.828	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	59.828	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	59.828	0507BIT NO 3 VERIFY
	IU	LDI 1095 ON	59.828	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	59.828	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	59.828	5166VXK0008-603
S1B		DDA 2094 ON	59.828	5167VXK0008-603
S1B		DDA 2098 ON	59.828	5171VXK0008-603
S1B		DDA 2099 ON	59.828	5172VXK0008-603
S1B		DDA 2100 ON	59.828	5173VXK0008-603
S1B	IU	MDI 2304 OFF	59.844	3764S-1B STAGE SEL
S1B	IU	MDI 2307 ON	59.844	3767RESET COMMAND
S1B	IU	-1- 1101 RESET	59.844	
	IU	MDI 0816 ON	59.848	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	59.848	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	59.848	3518REG CONT BIT 3 VERIFY IN
	IU	LDI 1091 OFF	59.852	0506BIT NO 2 VERIFY
	IU	LDI 1103 ON	59.852	0517RESET COMMAND
	IU	MDI 0821 ON	59.852	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	59.852	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 ON	59.852	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2084 ON	59.852	5160VXK0007-603
S1B		DDA 2099 OFF	59.852	5172VXK0008-603
	IU	LDI 1090 OFF	59.856	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	59.856	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	59.856	0512BIT NO 8 VERIFY
	IU	LDI 1101 OFF	59.856	0515S-1B STAGE SELECTOR

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S1B		MDI 0041 ON	59.856	2859FLIGHT SEQ ZERO IND
S1B	IU	MDI 2307 OFF	59.856	3767RESET COMMAND
S1B		DDA 2090 OFF	59.856	5165VXK0005-603
S1B		DDA 2093 OFF	59.856	5166VXK0008-603
S1B		DDA 2095 OFF	59.856	5168VXK0008-603
S1B		DDA 2098 OFF	59.856	5171VXK0008-603
S1B		DDA 2100 OFF	59.856	5173VXK0008-603
	IU	LDI 1101 ON	59.860	0515S-IB STAGE SEL
S1B	IU	MDI 2304 ON	59.860	3764S-IB STAGE SEL
	IU	LDI 1101 ON	59.868	0515S-IB STAGE SELECTOR
	IU	MDI 0817 OFF	59.868	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	59.868	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF	59.868	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	59.868	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 OFF	59.868	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2090 ON	59.868	5165VXK0005-603
	IU	LDI 1103 OFF	59.872	0517RESET COMMAND
S1B		MDI 0041 OFF	59.872	2859FLIGHT SEQ ZERO IND
	IU	MDI 0818 ON	59.872	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	59.872	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	59.872	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	59.872	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	59.872	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF	59.872	5160VXK0007-603
	IU	LDI 1091 ON	59.876	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	59.876	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	59.876	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	59.876	0511BIT NO 7 VERIFY
	IU	MDI 0821 ON	59.876	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2096 ON	59.876	5169VXK0008-603
S1B		DDA 2099 ON	59.876	5172VXK0008-603
S1B		LDO 0041 OFF	59.888	4180FLIGHT SEQ ZERO IND
S1B	IU	MDI 2308 ON	59.972	3768READ COMMAND
S1B S4B	IU	-1- 245 READ	59.972	
	IU	LDI 0983 ON	59.976	0463SW SEL READ
	IU	LDI 1102 ON	59.976	0516SW SEL READ
S1B		MDI 2583 ON	59.976	3231FUEL OR LOX DEPLETED
S1B		MDI 2090 ON	59.976	3746ANY ENGINES CUTOFF
S1B		LDO 0041 ON	59.976	4180FLIGHT SEQ ZERO IND
S1B		DEE 3211 ON	59.976	4995LIFTOFF +3 SEC
S1B		DDA 2085 ON	59.976	5161VXK0006-603
	IU	MDO 0879 ON	59.980	2076S-IB OUTBD ENG OUT
S1B		MDO 1314 ON	59.980	2913BOATTAIL DELUGE PURGE ON
S1B		MDI 0137 OFF	59.980	3017STAGE LOGIC ZERO IND

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S1B		MDI 0362 ON	59.980	3182+1D11 ENG NO 1 CUTOFF
S1B		MDI 0370 ON	59.980	3190+1D21 ENG NO.1 CUTOFF
S1B		MDI 2583 OFF	59.980	3231FUEL OR LOX DEPLETED
S1B		MDI 0379 OFF	59.984	3198ALL ENGS CUTOFF SAFE IND
S1B		MDI 2106 ON	59.984	3762DELUGE PRG ON CMD
S1B		MDI 2638 ON	59.988	2680CONAX NO. 2 ENG NO. 1
S1B		MDI 2639 ON	59.988	2681CONAX NO. 1 ENG NO. 1
S1B		MDI 2131 ON	59.988	2780DELUGE PRG P SW A2278
S1B		MDI 2132 ON	59.988	2781DELUGE PRG P SW A2277
S1B		MDI 2133 ON	59.988	2782DELUGE PRG P SW A2256
S1B		MDI 2134 ON	59.988	2783DELUGE PRG P SW A2276
S1B		MDI 2052 ON	59.988	372290ATTAIL DELUGE PURGE ON
S1B		MDI 2175 OFF	59.992	2584?1D34 SUPERVISION
S1B		MDI 0014 OFF	59.992	2833ENG 1 LOX PREVLV OPN IND
S1B		MDI 0090 ON	59.992	2970VEHICLE CUTOFF SAFE
S1B		MDI 0013 OFF	59.996	2832ENG 1 FUEL PREVLV OPN IN
S1B		MDI 0058 ON	59.996	2876READY FOR SIB PWR XFER
S1B	S4B IU	CDC 27 19		
S1B		MDI 0029 OFF	00.000	2848PREVALVES OPEN IND
S1B		LDO 0041 OFF	00.000	4180FLIGHT SEQ ZERO IND
S1B	IU	MDI 2304 OFF	00.012	3764S-IB STAGE SEL
S1B	IU	MDI 2308 OFF	00.012	3768READ COMMAND
	IU	LDI 0983 OFF	00.020	0463SW SEL READ
	IU	LDI 1102 OFF	00.020	0516SW SEL READ
S1B		DDA 2085 OFF	00.020	5161VXK0006-603
S1B		DDA 2090 OFF	00.020	5165VXK0005-603
	IU	LDI 1101 OFF	00.024	0515S-IB STAGE SELECTOR
	IU	MDI 0817 ON	00.024	3517REG CONT BIT 2 VERIFY IN
S1B		MDI 2065 ON	00.024	3734SWITCH SELECTOR ZERO IND
	IU	LDI 1091 OFF	00.028	0506BIT NO 2 VERIFY
	IU	MDI 0819 ON	00.028	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	00.028	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	00.028	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 1157 OFF	00.028	5172VXK0008-603
S1B		DDA 2099 OFF	00.028	5172VXK0008-603
	IU	LDI 1093 OFF	00.032	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	00.032	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	00.032	0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF	00.032	5167VXK0008-603
S1B		DDA 2096 OFF	00.032	5169VXK0008-603
S1B		DDA 1035 ON	00.036	2494VK0100-008
S1B		DDA 1036 ON	00.036	2495VK0100-007
S1B		DDA 1037 ON	00.036	2496VK0100-007
S1B		DDA 1038 ON	00.036	2497VK0099-007
S1B		DDA 1039 ON	00.036	2498VK0100-006
S1B		DDA 1040 ON	00.036	2499VK0099-006

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TEST SIM FLT MAL CAT PLW /S 11

S1B	DDA 1061 ON	00.036	2540VK0100-005
S1B	DDA 1062 ON	00.036	2541VK0099-005
S1B	DDA 1063 ON	00.036	2542VK0100-004
S1B	DDA 1064 ON	00.036	2543VK0099-004
S1B	DDA 1065 ON	00.036	2544VK0100-003
S1B	DDA 1066 ON	00.036	2545VK0099-003
S1B	DDA 1067 ON	00.036	2546VK0100-002
S1B	DDA 1068 ON	00.036	2547VK0099-002
S1B	DDA 1069 ON	00.036	2548VK0100-001
S1B	DDA 1070 ON	00.036	2549VK0099-001
S1B	MDI 0383 OFF	00.036	3202NO CONAX FIRED
S1B	DDA 1041 ON	00.052	2520VK0205-009
S1B	DDA 1042 ON	00.052	2521VK0207-009
S1B	MDI 2109 ON	00.080	32928.0 SEC LAUNCH FAIL TMR
S1B	MDI 2093 ON	00.084	3749LAUNCH FAIL CUTOFF IND
S1B	LDO 0137 OFF	00.096	4576STAGE LOGIC ZERO IND
S1B	LDO 0362 ON	00.104	4266+1D11 ENG NO 1 CUTOFF
S1B	LDO 0370 ON	00.104	4274+1D21 ENG NO.1 CUTOFF
S1B	MDI 2187 ON	00.108	2596TCS PULSE OK
S1B	LDO 0379 OFF	00.140	4283ALL ENGS CUTOFF SAFE IND
S1B	LDO 0090 ON	00.148	4229VEHICLE CUTOFF SAFE
S1B	LDO 0013 OFF	00.156	4153ENG 1 FUEL PREVLY OPN IN
S1B	LDO 0014 OFF	00.156	4154ENG 1 LOX PREVLY OPN IND
S1B	LDO 0058 ON	00.168	4197READY FOR SIB PWR XFER
S1B	LDO 0029 OFF	00.204	4169PREVALVES OPEN IND
S1B	LDO 0383 OFF	00.312	4287NO CONAX FIRED
S1B	MDI 2187 OFF	00.740	2596TCS PULSE OK
S1B	LDI 0073 ON	00.776	0518LOX PREVLY 1 CLOSED IND
S1B	DDA 1098 ON	00.776	4037VK0091-009
S1B	MDI 2187 ON	01.108	2596TCS PULSE OK
S1B	MDI 2187 OFF	01.740	2596TCS PULSE OK
S1B	LDI 0072 ON	01.768	0033FUEL PREVLY 1 CLOSED IND
S1B	DDA 1086 ON	01.768	4025VK0083-009
S1B	MDO 0711 ON	02.056	1518FUEL DEPL NO. 1
S1B	MDI 2585 OFF	02.056	3868FUEL DEPL SENS NO. 1
S1B	DDA 1088 ON	02.100	4027VK0081-0F4
S1B	LDI 0097 ON	02.104	0057FUEL DEP SENSOR NO 1
S1B	MDI 2187 ON	02.108	2596TCS PULSE OK
S1B	LDO 0378 ON	02.120	4282FUEL DEPLN SENSOR CUTOFF
S1B	LDO 0378 OFF	02.140	4282FUEL DEPLN SENSOR CUTOFF
S1B	MDO 0713 ON	02.280	1520FUEL DEPL NO. 2
S1B	MDI 2585 OFF	02.280	3867FUEL DEPL SENS NO. 2
S1B	MDI 0378 ON	02.284	2959FUEL DEPLN SENSOR CUTOFF
S1B	MDI 0378 OFF	02.288	2959FUEL DEPLN SENSOR CUTOFF
S1B	LDI 0098 ON	02.352	0058FUEL DEP SENSOR NO 2
S1B	DDA 1087 ON	02.352	4026VK0082-0F4

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S1B		LDO 0378 ON 02.376 4282FUEL DEPLN SENSOR CUTOFF
S1B		LDO 0378 OFF 02.396 4282FUEL DEPLN SENSOR CUTOFF
S1B		MDI 2187 OFF 02.740 2596TCS PULSE OK
S1B	IU	MDI 2305 ON 02.820 3765S-IVB STAGE SEL
	IU	MDI 0822 OFF 02.824 3522REG CONT BIT 7 VERIFY IN
S4B		MDI 1844 OFF 02.824 3928SW SEL ZERO
S1B		DDA 2088 ON 02.824 5164VXK0005-603
	IU	LDI 1099 ON 02.828 0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF 02.828 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 02.828 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 02.828 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF 02.828 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON 02.828 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 02.828 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON 02.836 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 02.836 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 02.836 0507BIT NO 3 VERIFY
	IU	LDI 1094 ON 02.836 0509BIT NO 5 VERIFY
	IU	LDI 1097 ON 02.836 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 02.836 5166VXK0008-603
S1B		DDA 2096 ON 02.836 5169VXK0008-603
S1B		DDA 2098 ON 02.836 5171VXK0008-603
S1B		DDA 2099 ON 02.836 5172VXK0008-603
S1B		DDA 2100 ON 02.836 5173VXK0008-603
S1B	IU	MDI 2305 OFF 02.860 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF 02.860 3767S-IVB STAGE SEL
S1B	S4B IU	-2- 150 RESET 02.860
	S4B	MDI 1844 ON 02.864 3928SW SEL ZERO
	IU	LDI 1091 OFF 02.868 0506BIT NO 2 VERIFY
	IU	LDI 1103 ON 02.868 0517RESET COMMAND
	IU	MDI 0816 ON 02.868 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 02.868 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 02.868 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON 02.868 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON 02.868 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON 02.868 5160VXK0007-603
S1B		DDA 2088 OFF 02.868 5164VXK0005-603
S1B		DDA 2099 OFF 02.868 5172VXK0008-603
	IU	LDI 1090 OFF 02.872 0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF 02.872 0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF 02.872 0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF 02.872 0512BIT NO 8 VERIFY
	IU	LDI 1099 OFF 02.872 0514S-IVB STAGE SELECTOR
S1B		DDA 2093 OFF 02.872 5166VXK0008-603
S1B		DDA 2096 OFF 02.872 5169VXK0008-603
S1B		DDA 2098 OFF 02.872 5171VXK0008-603

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S1B		DDA 2100 OFF 02.872 5173VXK0008-603
S1B	IU	MDI 2305 ON 02.876 3765S-IVR STAGE SEL
S1B	IU	MDI 2307 OFF 02.876 3767RESET COMMAND
	IU	LDI 1099 ON 02.884 0514S-IVB STAGE SELECTOR
S1B		DDA 2088 ON 02.884 5164VXK0005-603
	IU	LDI 1103 OFF 02.888 0517RESET COMMAND
	IU	MDI 0816 OFF 02.888 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 02.888 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 02.888 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 02.888 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 02.888 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF 02.888 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 02.888 3928SW SEL ZERO
S1B		DDA 2084 OFF 02.888 5160VXK0007-603
	IU	LDI 1091 ON 02.892 0508BIT NO 3 VERIFY
	IU	LDI 1093 ON 02.892 0508BIT NO 4 VERIFY
	IU	LDI 1096 ON 02.892 0511BIT NO 7 VERIFY
	IU	MDI 0816 ON 02.892 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 02.892 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 02.892 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 02.892 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 02.892 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 02.892 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 02.892 3523REG CONT BIT 8 VERIFY IN
S4B		LDO 1844 OFF 02.892 4535SW SEL ZERO
S1B		DDA 2094 ON 02.892 5167VXK0006-603
S1B		DDA 2095 ON 02.892 5168VXK0008-603
S1B		DDA 2099 ON 02.892 5172VXK0008-603
	IU	LDI 1093 ON 02.892 0511BIT NO 3 VERIFY
S4B		LDO 1844 ON 02.944 4535SW SEL ZERO
S1B	IU	MDI 2304 ON 02.944 3768READ COMMAND
S1B S4B	IU	-2- 225 READ 02.964
	IU	LDI 0983 ON 02.968 0463SW SEL READ
	IU	LDI 1102 ON 02.968 0516SW SEL READ
S1B		DDA 2029 ON 02.972 4080VXK0128-404
S1B	IU	MDI 2305 OFF 02.992 3765S-IVR STAGE SEL
S1B	IU	MDI 2308 OFF 02.992 3768READ COMMAND
	IU	LDI 0983 OFF 03.004 0463SW SEL READ
	IU	LDI 1099 OFF 03.004 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 03.004 0516SW SEL READ
	IU	MDI 0817 ON 03.004 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 03.004 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822 ON 03.004 3522REG CONT BIT 7 VERIFY IN
S4B		MDI 1844 ON 03.004 3928SW SEL ZERO
S1B		DDA 2085 OFF 03.004 5161VXK0006-603
S1B		DDA 2088 OFF 03.004 5164VXK0005-603

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S1B	IU	MDI 0821 ON 03.008 3521REG CONT BIT 6 VERIFY IN
		DDA 2029 OFF 03.008 4080VK0128-404
S1B	IU	LDI 1091 OFF 03.012 0506BIT NO 2 VERIFY
		DDA 2099 OFF 03.012 5172VXK0008-603
	IU	LDI 1093 OFF 03.016 0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF 03.016 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 03.016 0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF 03.016 5167VXK0008-603
S1B		DDA 2095 OFF 03.016 5168VXK0008-603
S4B		LDO 1844 OFF 03.020 4535SW SEL ZERO
S1B		MDI 2187 ON 03.108 2596TCS PULSE OK
S4B		LDO 1844 OFF 03.112 4535SW SEL ZERO
S1B		MDI 2187 OFF 03.740 2596TCS PULSE OK
S1B		DDA 2061 OFF 04.148 2535VK0146-005
S1B		MDI 0172 OFF 04.068 2692COM ENG 5 THRUST RELAY 1
	IU	MDI 0613 OFF 04.068 3313ENG NO 5 THRUST OK NO 1
S1B		MDI 2073 OFF 04.076 3741ENG NO 5 THRUST OK IND
S1B		MDI 2187 ON 04.108 2596TCS PULSE OK
S1B		LDO 0172 OFF 04.132 4292COM ENG 5 THRUST RELAY 1
	IU	LDO 0172 OFF 04.132 4292COM ENG 5 THRUST OK NO 1
S1B		DDA 1056 OFF 04.148 2535VK0146-005
S1B		MDI 0188 OFF 04.232 3058COM ENG 5 THRUST RELAY 2
	IU	MDI 0614 OFF 04.232 3314ENG NO 5 THRUST OK NO 2
	IU	MDI 0640 ON 04.240 3340ABORT NO 1A COMM TO SC
	IU	MDI 0641 ON 04.240 3341ABORT NO 1B COMM TO SC
	IU	MDI 0642 ON 04.240 3342ABORT NO 2A COMM TO SC
	IU	MDI 0643 ON 04.240 3343ABORT NO 2B COMM TO SC
	IU	MDI 0644 ON 04.240 3344ABORT NO 3A COMM TO SC
	IU	MDI 0645 ON 04.240 3345ABORT NO 3B COMM TO SC
	IU	MDI 0646 ON 04.240 3346ABORT BUS
	IU	LDI 1010 OFF 04.244 0487NO ABORT NO.1 FROM L/V
	IU	LDI 1011 OFF 04.244 0488NO ABORT NO.2 FROM L/V
	IU	LDI 1012 OFF 04.244 0489NO ABORT NO.3 FROM L/V
	IU	LDI 0895 ON 04.248 0427EDS ABORT B
	IU	LDI 1319 OFF 04.248 2156EDS READY BYPASS
S1B		MDO 1319 OFF 04.248 2156EDS READY BYPASS
	IU	MDI 2234 OFF 04.248 2614NOT EDS NOT READY A
	IU	MDI 2235 OFF 04.248 2615NOT EDS NOT READY B
	IU	MDI 2325 OFF 04.248 2687EDS READY A
	IU	MDI 2326 OFF 04.248 2688EDS READY B
	IU	MDI 0647 ON 04.248 3347EDS UNSAFE A
	IU	MDI 0648 ON 04.248 3348EDS UNSAFE B
S1B		DDA 2037 ON 04.248 4088VK0012-602
S1B		DDA 2038 ON 04.248 4089VK0011-602
	IU	DEE 3798 ON 04.248 4996EDS NOT READY

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	IU	DEE 3809 OFF	04.248	5001EDS READY
S1B		MDI 0157 OFF	04.252	3037EDS READY
S1B		LDO 0188 OFF	04.300	4726CON ENG 5 THRUST RELAY 2
S1B		DDA 1048 OFF	04.304	2527VK0147-005
S1B		DDA 2004 ON	04.308	4063VK0013-602
S1B		DDA 2008 ON	04.308	4067VR0032-602
S1B		DDA 2009 ON	04.308	4068VR0031-602
	IU	LDO 0614 OFF	04.308	4381ENG NO 5 THRUST OK NO 2
	IU	LDO 0640 ON	04.316	4407ABORT NO 1A COMM TO SC
	IU	LDO 0641 ON	04.316	4408ABORT NO 1B COMM TO SC
	IU	LDO 0642 ON	04.316	4409ABORT NO 2A COMM TO SC
	IU	LDO 0643 ON	04.316	4410ABORT NO 2B COMM TO SC
	IU	LDO 0644 ON	04.316	4411ABORT NO 3A COMM TO SC
	IU	LDO 0645 ON	04.316	4412ABORT NO 3B COMM TO SC
	IU	LDO 0646 ON	04.316	4413ABORT BUS
	IU	LDO 0647 ON	04.324	4414EDS UNSAFE A
	IU	LDO 0648 ON	04.360	4415EDS UNSAFE B
S1B		DDA 0112 ON	04.368	5244VK0220-337
S1B		LDO 0157 OFF	04.360	4720EDS READY
S1B		MDI 2187 OFF	04.740	2596TCS PULSE OK
S1B		MDI 2187 ON	05.108	2596TCS PULSE OK
S1B		MDI 2187 OFF	05.740	2596TCS PULSE OK
S1B S4B	IU	CDC	06.080	
S1B S4B	IU	CDC 00 00	10.000	
S1B		MDI 2187 ON	10.023	2596TCS PULSE OK
S1B		MDI 2187 OFF	10.660	2596TCS PULSE OK
S1B	IU	MDI 2304 ON	10.736	3764S-1B STAGE SEL
	IU	MDI 0817 OFF	10.740	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	10.740	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	10.740	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	10.740	3522REG CONT BIT 7 VERIFY IN
S1B		MDI 2065 OFF	10.740	3734SWITCH SELECTOR ZERO IND
	IU	MDI 0818 OFF	10.744	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON	10.744	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	10.744	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	10.744	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2090 ON	10.744	5165VXK0005-603
S1B		DDA 2093 0	10.744	5166VXK0008-603
S1B		DDA 2094 ON	10.744	5167VXK0008-603
S1B		DDA 2095 ON	10.744	5168VXK0008-603
S1B		DDA 2098 ON	10.744	5171VXK0008-603
S1B		DDA 2099 ON	10.744	5172VXK0008-603
	IU	LDI 1091 ON	10.748	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	10.748	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	10.748	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	10.748	0510BIT NO 6 VERIFY

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	IU	LDI 1096 ON	10.748	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	10.748	0512BIT NO 8 VERIFY
	IU	LDI 1101 ON	10.748	0515S-IB STAGE SELECTOR
S1B	IU	MDI 2308 ON	10.884	3768READ COMMAND
S1B S4B	IU	-1- 021 READ	10.884	
	IU	LDI 0983 ON	10.888	0463SW SEL READ
	IU	LDI 1102 ON	10.888	0516SW SEL READ
S1B		MDI 2204 OFF	10.888	2597BUS ?1D16 VOLTS ON
S1B		MDI 0090 OFF	10.888	2970VEHICLE CUTOFF SAFE
S1B		DDA 1109 ON	10.888	4048VK0001-012
S1B		DDA 2085 ON	10.888	5161VXK0006-603
	IU	MDI 0878 ON	10.892	2075S-IB INBD ENG OUT
S1B		MDI 2175 ON	10.892	2584?1D34 SUPERVISION
S1B		MDI 0058 OFF	10.892	2876READY FOR SIB PWR XFER
S1B		MDI 0366 ON	10.892	3186+1D11 ENG NO.5 CUTOFF
S1B		MDI 0374 ON	10.892	3194+1D21 ENG NO.5 CUTOFF
S1B		MDI 2630 ON	10.904	2672CONAX NO. 2 ENG NO. 5
S1B		MDI 2631 ON	10.904	2673CONAX NO. 1 ENG NO. 5
S1B		MDI 0021 OFF	10.908	2840ENG 5 FUEL PREVLV OPN IN
S1B		MDI 0022 OFF	10.908	2841ENG 5 LOX PREVLV OPN IND
S1B	IU	MDI 2304 OFF	10.920	3764S-IB STAGE SEL
S1B	IU	MDI 2308 OFF	10.920	3768READ COMMAND
	IU	LDI 0983 OFF	10.932	0463SW SEL READ
	IU	LDI 1101 OFF	10.932	0515S-IB STAGE SELECTOR
	IU	LDI 1102 OFF	10.932	0516SW SEL READ
	IU	MDI 0817 ON	10.932	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	10.932	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	10.932	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	10.932	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	10.932	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	10.932	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 ON	10.932	3734SWITCH SELECTOR ZERO IND
S1B		DDA 1109 OFF	10.932	4048VK0001-012
S1B		DDA 2085 OFF	10.932	5161VXK0006-603
S1B		DDA 2090 OFF	10.932	5165VXK0005-603
	IU	LDI 1091 OFF	10.940	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	10.940	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	10.940	0512BIT NO 8 VERIFY
S1B	IU	MDI 2304 ON	10.940	3764S-IB STAGE SEL
S1B		DDA 2093 OFF	10.940	5166VXK0008-603
S1B		DDA 2094 OFF	10.940	5167VXK0008-603
S1B		DDA 2098 OFF	10.940	5171VXK0008-603
S1B		DDA 2099 OFF	10.940	5172VXK0008-603
	IU	LDI 1094 OFF	10.944	0510BIT NO 4 VERIFY
	IU	LDI 1095 OFF	10.944	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	10.944	0511BIT NO 7 VERIFY

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S18		DDA 2090 ON	10.944	5165VXK0005-603
S18		DDA 2095 OFF	10.944	5168VXK0008-603
	IU	LDI 1101 ON	10.948	0515S-IB STAGE SELECTOR
	IU	MDI 0817 OFF	10.948	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	10.948	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	10.948	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	10.948	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	10.948	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	10.948	3523REG CONT BIT 8 VERIFY IN
S18		MDI 2065 OFF	10.948	3734SWITCH SELECTOR ZERO IND
	IU	MDI 0818 ON	10.952	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	10.952	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	10.952	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	10.952	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	10.952	3522REG CONT BIT 7 VERIFY IN
S18		DDA 2093 ON	10.952	5166VXK0008-603
S18		DDA 2096 ON	10.952	5169VXK0008-603
S18		DDA 2099 ON	10.952	5172VXK0008-603
	IU	LDI 1091 ON	10.956	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	10.956	0509BIT NO 5 VERIFY
	IU	LDI 1097 ON	10.956	0512BIT NO 8 VERIFY
S18		DDA 1043 ON	10.972	2522VK0208-009
S18		DDA 1044 ON	10.972	2523VK0206-009
S18	IU	MDI 2304 OFF	10.972	3764S-IB STAGE SEL
S18	IU	MDI 2307 ON	10.972	3767RESET COMMAND
S18 048	IU	-1- 155 RESET	10.972	
	IU	LDI 1103 OFF	10.980	0517RESET COMMAND
	IU	MDI 0817 ON	10.980	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	10.980	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	10.980	3523REG CONT BIT 8 VERIFY IN
S18		MDI 2065 ON	10.980	3734SWITCH SELECTOR ZERO IND
S18		DDA 2084 ON	10.980	5160VXK0007-603
S18		DDA 2090 OFF	10.980	5165VXK0005-603
	IU	LDI 1101 OFF	10.984	0515S-IB STAGE SELECTOR
	IU	LDI 1091 OFF	10.988	0506BIT NO 2 VERIFY
S18	IU	MDI 2304 ON	10.988	3764S-IB STAGE SEL
S18	IU	MDI 2307 OFF	10.988	3767RESET COMMAND
S18		DDA 2099 OFF	10.988	5172VXK0008-603
	IU	LDI 1094 OFF	10.992	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	10.992	0512BIT NO 8 VERIFY
S18		DDA 2093 OFF	10.992	5166VXK0008-603
S18		DDA 2096 OFF	10.992	5169VXK0008-603
	IU	LDI 1101 ON	10.996	0515S-IB STAGE SELECTOR
S18		LDO 0058 OFF	10.996	4197READY FOR SIB PWR XFER
S18		DDA 2090 ON	10.996	5165VXK0005-603
	IU	LDI 1103 OFF	11.000	0517RESET COMMAND

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	IU	MDI 0817 OFF	11.000	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	11.000	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF	11.000	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 OFF	11.000	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2084 OFF	11.000	5160VXK0007-603
	IU	LDI 1091 ON	11.004	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	11.004	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	11.004	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	11.004	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	11.004	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	11.004	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	11.004	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	11.004	0512BIT NO 8 VERIFY
	IU	MDI 0816 OFF	11.004	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF	11.004	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	11.004	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	11.004	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	11.004	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	11.004	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	11.004	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON	11.004	5166VXK0008-603
S1B		DDA 2094 ON	11.004	5167VXK0008-603
S1B		DDA 2095 ON	11.004	5168VXK0008-603
S1B		DDA 2096 ON	11.004	5169VXK0008-603
S1B		DDA 2098 ON	11.004	5171VXK0008-603
S1B		DDA 2099 ON	11.004	5172VXK0008-603
S1B		DDA 2100 ON	11.004	5173VXK0008-603
S1B		LDO 0090 OFF	11.008	4229VEHICLE CUTOFF SAFE
	IU	LDI 1094 OFF	11.016	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	11.016	0512BIT NO 8 VERIFY
S1B		LDO 0366 ON	11.016	4270+1D11 ENG NO.5 CUTOFF
S1B		LDO 0374 ON	11.016	4278+1D21 ENG NO.5 CUTOFF
S1B		DDA 2093 OFF	11.016	5166VXK0008-603
S1B		DDA 2098 OFF	11.016	5169VXK0008-603
S1B		MDI 2187 ON	11.028	2596TCS PULSE OK
S1B	IU	MDI 2308 ON	11.028	3768READ COMMAND
S1B S4B	IU	-1- 220 READ	11.028	
	IU	LDI 1102 ON	11.036	0516SW SEL READ
S1B		DDA 2085 ON	11.036	5161VXK0006-603
	IU	LDI 0983 ON	11.040	0463SW SEL READ
S1B		DDA 1109 ON	11.040	4048VK0001-012
S1B	IU	MDI 2304 OFF	11.068	3764S-1B STAGE SEL
S1B	IU	MDI 2308 OFF	11.068	3768READ COMMAND
S1B		LDO 0021 OFF	11.072	4161ENG 5 FUEL PREVLV OPN IN
S1B		LDO 0022 OFF	11.072	4162ENG 5 LOX PREVLV OPN IND
	IU	LDI 0983 OFF	11.080	0463SW SEL READ

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	IU	LDI 1102 OFF	11.080	0516SW SEL READ
	IU	MDI 0816 ON	11.080	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	11.080	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	11.080	3518REG CONT BIT 3 VERIFY IN
S1B		DDA 1109 OFF	11.080	4048VK0001-012
S1B		DDA 2069 OFF	11.080	5161VXK0000-603
S1B		DDA 2090 OFF	11.080	5165VXK0005-603
	IU	LDI 1101 OFF	11.084	0513S-1B STAGE SELECTOR
	IU	MDI 0819 ON	11.084	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	11.084	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	11.084	3522REG CONT BIT 7 VERIFY IN
S1B		MDI 2065 ON	11.084	3734SWITCH SELECTOR ZERO IND
	IU	LDI 1091 OFF	11.088	0506BIT NO 2 VERIFY
S1B		DDA 2098 OFF	11.088	5171VXK0008-603
S1B		DDA 2099 OFF	11.088	5172VXK0008-603
	IU	LDI 1090 OFF	11.092	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	11.092	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	11.092	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	11.092	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	11.092	0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF	11.092	5167VXK0008-603
S1B		DDA 2095 OFF	11.092	5168VXK0008-603
S1B		DDA 2100 OFF	11.092	5173VXK0008-603
	IU	MDO 1909 ON	11.420	1605EDS RG CMD GYRO SEL ON
	IU	MDI 0628 ON	11.420	3328EDS RG COMMAND SELECT
	IU	LDO 0628 ON	11.476	4395EDS RG COMMAND SELECT
	IU	MDO 1907 ON	11.584	1604EDS RG REF GYRO SEL ON
	IU	MDI 0627 ON	11.584	3327EDS RG REFERENCE SELECT
S1B		MDI 2187 OFF	11.660	2596TCS PULSE OK
	IU	LDO 0627 ON	11.680	4394EDS RG REFERENCE SELECT
S1B		LDI 0081 ON	11.696	0041LOX PREVLV 5 CLOSED IND
S1B		DDA 1082 ON	11.696	4021VK0007-009
	IU	MDO 1910 ON	11.904	2452EDS RG SPARE GYRO SEL ON
	IU	MDI 0629 ON	11.908	3329EDS RG SPARE SELECT
	IU	LDO 0629 ON	11.984	4396EDS RG SPARE SELECT
S1B		MDI 2187 ON	12.028	2596TCS PULSE OK
S1B		MDI 2187 OFF	12.660	2596TCS PULSE OK
S1B		LDI 0080 ON	12.772	0040FUEL PREVLV 5 CLOSED IND
S1B		DDA 1082 ON	12.772	4021VK0007-009
S1B		MDO 0718 OFF	12.964	1525ENG 2 TOK 1
S1B		MDI 0169 OFF	12.964	2651COM ENG 2 THRUST RELAY 1
	IU	MDI 0604 OFF	12.964	3304ENG NO 2 THRUST OK NO 1
S1B		MDI 2070 OFF	12.972	3738ENG NO 2 THRUST OK IND
S1B		DDA 1059 OFF	12.984	2538VK0140-002
S1B		MDI 2187 ON	13.028	2596TCS PULSE OK
S1B		LDO 0169 OFF	13.028	4219COM ENG 2 THRUST RELAY 1

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	IU	LDO 0604 OFF 13.040 4371ENG NO 2 THRUST OK NO 1
S1B		MDO 0717 OFF 13.160 1524ENG 2 TOK 3
S1B		MDI 0177 OFF 13.160 2697COM ENG 2 THRUST RELAY 3
	IU	MDI 0606 OFF 13.160 3306ENG NO 2 THRUST OK NO 3
S1B		MDI 2583 ON 13.168 3231FUEL OR LOX DEPLETED
S1B		MDI 0371 ON 13.172 3191+1D21 ENG NO.2 CUTOFF
S1B		MDI 2583 OFF 13.172 3231FUEL OR LOX DEPLETED
S1B		MDI 2636 ON 13.180 2678CONAX NO. 2 ENG NO. 2
S1B		MDI 2637 ON 13.180 2679CONAX NO. 1 ENG NO. 2
S1B		DDA 1029 OFF 13.184 2488VK0172-002
S1B		MDI 0016 OFF 13.184 2635ENG 2 LOX PREVLV OPN IND
S1B		MDI 0015 OFF 13.188 2834ENG 2 FUEL PREVLV OPN IN
S1B		LDO 0177 OFF 13.260 4449COM ENG 2 THRUST RELAY 3
	IU	LDO 0606 OFF 13.268 4373ENG NO 2 THRUST OK NO 3
S1B		LDO 0363 ON 13.276 4267+1D11 ENG NO.2 CUTOFF
S1B		LDO 0371 ON 13.276 4275+1D21 ENG NO.2 CUTOFF
S1B		MDI 0368 ON 13.304 3188+1D11 ENG NO.7 CUTOFF
S1B		MDI 0369 ON 13.304 3189+1D11 ENG NO.8 CUTOFF
S1B		MDI 0365 ON 13.308 3185+1D11 ENG NO.4 CUTOFF
S1B		MDI 0364 ON 13.312 3184+1D11 ENG NO.3 CUTOFF
S1B		MDI 0367 ON 13.312 3187+1D11 ENG NO.6 CUTOFF
S1B		LDO 0015 OFF 13.320 4155ENG 2 FUEL PREVLV OPN IN
S1B		LDO 0016 OFF 13.320 4156ENG 2 LOX PREVLV OPN IND
S1B		MDI 2187 OFF 13.660 2596TCS PULSE OK
S1B		DDA 1097 ON 13.944 4036VK0092-009
S1B		LDI 0075 ON 13.948 0035LOX PREVLV 2 CLOSED IND
	IU	MDO 1904 ON 13.956 1601EDS RG ROLL AXIS SEL ON
	IU	MDI 0632 ON 13.956 3332EDSRG ROLL AXIS SELECT
S1B		MDI 2187 ON 14.028 2596TCS PULSE OK
	IU	LDO 0632 ON 14.044 4399EDSRG ROLL AXIS SELECT
S1B		MDI 2187 OFF 14.660 2596TCS PULSE OK
S1B		LDI 0074 ON 15.020 0034FUEL PREVLV 2 CLOSED IND
S1B		DDA 1085 ON 15.020 4024VK0084-009
S1B		MDI 2187 ON 15.028 2596TCS PULSE OK
S1B		MDI 2187 OFF 15.660 2596TCS PULSE OK
	IU	MDO 0694 ON 15.956 2026RAMP POS
	IU	MDI 0889 ON 15.964 3577RAMP IND
	IU	MDI 2236 OFF 15.972 2605RAMP NO 1 ZERO
	IU	MDI 2237 OFF 15.976 2606RAMP NO 2 ZERO
	IU	MDI 2238 OFF 15.976 2607RAMP NO 3 ZERO
	IU	LDO 0889 ON 16.020 4674RAMP IND
S1B		MDI 2187 ON 16.028 2596TCS PULSE OK
S1B		DDA 2125 OFF 16.320 4119VR0029-602
S1B		MDI 2187 OFF 16.660 2596TCS PULSE OK
S1B		DDA 2126 OFF 16.736 4120VR0028-602

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S1B		MDI 2187 ON	17.028	2596TCS	PULSE OK
S1B		MDI 2187 OFF	17.660	2596TCS	PULSE OK
S1B		MDI 2187 ON	18.028	2596TCS	PULSE OK
S1B		MDI 2187 OFF	18.660	2596TCS	PULSE OK
S1B		MDI 2187 ON	19.028	2596TCS	PULSE OK
S1B		MDI 2187 OFF	19.660	2596TCS	PULSE OK
S1B		MDI 2187 ON	20.028	2596TCS	PULSE OK
S1B		MDI 2187 OFF	20.660	2596TCS	PULSE OK
S1B	IU	MDI 2304 ON	20.732	3764S-IB	STAGE SEL
	IU	LDI 1101 ON	20.736	0515S-IB	STAGE SELECTOR
	IU	MDI 0816 OFF	20.736	3516REG	CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	20.736	3517REG	CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	20.736	3518REG	CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	20.736	3519REG	CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	20.736	3521REG	CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	20.736	3522REG	CONT BIT 7 VERIFY IN
S1B		MDI 2065 OFF	20.736	3734SWITCH	SELECTOR ZERO IND
S1B		DDA 2090 ON	20.736	5165VXK0005-603	
	IU	MDI 0816 ON	20.740	3516REG	CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	20.740	3518REG	CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	20.740	3519REG	CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	20.740	3522REG	CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	20.740	3523REG	CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON	20.744	0506BIT	NO 2 VERIFY
	IU	LDI 1095 ON	20.744	0510BIT	NO 6 VERIFY
	IU	LDI 1097 ON	20.744	0512BIT	NO 8 VERIFY
S1B		DDA 2093 ON	20.744	5166VXK0008-603	
S1B		DDA 2095 ON	20.744	5168VXK0008-603	
S1B		DDA 2099 ON	20.744	5172VXK0008-603	
S1B	IU	MDI 2304 OFF	20.760	3764S-IB	STAGE SEL
S1B	IU	MDI 2307 ON	20.760	3767RESET	COMMAND
S1B S4B	IU	-1- 135 RESET	20.760		
	IU	LDI 1103 ON	20.768	0517RESET	COMMAND
	IU	MDI 0817 ON	20.768	3517REG	CONT BIT 2 VERIFY IN
	IU	MDI 0821 ON	20.768	3521REG	CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	20.768	3523REG	CONT BIT 8 VERIFY IN
S1B		MDI 2065 ON	20.768	3734SWITCH	SELECTOR ZERO IND
S1B		DDA 2094 ON	20.768	5167VXK0007-603	
S1B		DDA 2099 OFF	20.768	5172VXK0008-603	
	IU	LDI 1091 OFF	20.772	0506BIT	NO 2 VERIFY
	IU	LDI 1097 OFF	20.772	0512BIT	NO 8 VERIFY
	IU	LDI 1101 OFF	20.772	0515S-IB	STAGE SELECTOR
S1B		DDA 2090 OFF	20.772	5165VXK0005-603	
S1B		DDA 2093 OFF	20.772	5166VXK0008-603	
	IU	LDI 1095 OFF	20.776	0510BIT	NO 6 VERIFY
S1B	IU	MDI 2304 ON	20.776	3764S-IB	STAGE SEL

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S1B	IU	MDI 2307	OFF	20.776	3767RESET COMMAND
S1B		DDA 2095	OFF	20.776	5168VXK0008-603
S1B		DDA 2090	ON	20.784	5165VXK0005-603
	IU	LDI 1101	ON	20.788	0515S-IB STAGE SELECTOR
	IU	LDI 1103	OFF	20.788	0517RESET COMMAND
	IU	MDI 0817	OFF	20.788	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	20.788	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821	OFF	20.788	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	20.788	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	20.788	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065	OFF	20.788	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2084	OFF	20.788	5160VXK0007-603
	IU	MDI 0816	OFF	20.792	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819	OFF	20.792	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	20.792	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	ON	20.792	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823	ON	20.792	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2094	ON	20.792	5167VXK0008-603
S1B		DDA 2096	ON	20.792	5169VXK0008-603
S1B		DDA 2098	ON	20.792	5171VXK0008-603
S1B		DDA 2099	ON	20.792	5172VXK0008-603
S1B		DDA 2100	ON	20.792	5173VXK0008-603
	IU	LDI 1090	ON	20.796	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	20.796	0506BIT NO 2 VERIFY
	IU	LDI 1092	ON	20.796	0507BIT NO 3 VERIFY
	IU	LDI 1093	ON	20.796	0508BIT NO 4 VERIFY
	IU	LDI 1094	ON	20.796	0509BIT NO 5 VERIFY
	IU	LDI 1096	ON	20.796	0511BIT NO 7 VERIFY
S1B	IU	MDI 2308	ON	20.892	3768READ COMMAND
S1B S4B	IU	-1- 240	READ	20.892	
	IU	LDI 0983	ON	20.904	0463SW SEL READ
	IU	LDI 1102	OFF	20.904	0516SW SEL READ
S1B		DDA 1109	ON	20.904	4046VXK0001-012
S1B		DDA 2085	0	20.904	5161VXK0006-603
S1B	IU	MDI 2304	OFF	20.932	3764S-IB STAGE SEL
S1B	IU	MDI 2308	OFF	20.932	3768READ COMMAND
	IU	MDI 0816	ON	20.944	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	ON	20.944	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	ON	20.944	3518REG CONT BIT 3 VERIFY IN
S1B		DDA 2085	OFF	20.944	5161VXK0006-603
	IU	LDI 0983	OFF	20.948	0463SW SEL READ
	IU	LDI 1102	OFF	20.948	0516SW SEL READ
	IU	MDI 0819	ON	20.948	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	ON	20.948	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822	ON	20.948	3522REG CONT BIT 7 VERIFY IN
S1B		MDI 2065	OFF	20.948	3734SWITCH SELECTOR ZERO IND

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S1		DDA 1109 OFF 20.948 4048VK0001-012
S1B		DDA 2099 OFF 20.952 5172VXK0008-603
	IU	LDI 1090 OFF 20.956 0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF 20.956 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 20.956 0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF 20.956 0509BIT NO 5 VERIFY
	IU	LDI 1101 OFF 20.956 0515S-IB STAGE SELECTOR
S1B		DDA 2090 OFF 20.956 5165VXK0005-603
S1B		DDA 2094 OFF 20.956 5167VXK0008-603
S1B		DDA 2096 OFF 20.956 5169VXK0008-603
S1B		DDA 2098 OFF 20.956 5171VXK0008-603
S1B		DDA 2100 OFF 20.956 5173VXK0008-603
	IU	LDI 1093 OFF 20.960 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 20.960 0511BIT NO 7 VERIFY
S1B		MDI 2187 ON 21.028 2596TCS PULSE OK
	IU	MDO 0694 OFF 21.140 2026RAMP POS
	IU	MDI 0889 OFF 21.148 3577RAMP IND
	IU	LDO 0889 OFF 21.220 4674RAMP IND
S1B		DDA 2124 OFF 21.568 4118VR0030-602
S1B		MDI 2187 OFF 21.556 2596TCS PULSE OK
S1B		DDA 2124 ON 21.736 4118VR0030-602
S1B		DDA 2124 OFF 21.984 4118VR0030-602
S1B		MDI 2187 ON 22.028 2596TCS PULSE OK
S1B		DDA 2124 ON 22.400 4118VR0030-602
S1B		DDA 1109 ON 22.512 4048VK0001-012
S1B		DDA 1110 OFF 22.596 4049VK0001-012
S1B		DDA 1110 ON 22.596 4049VK0001-012
S1B		MDI 2187 OFF 22.656 2596TCS PULSE OK
S1B		DDA 1109 ON 22.764 4048VK0001-012
S1B		DDA 1109 OFF 22.348 4048VK0001-012
S1B		DDA 1110 OFF 22.348 4049VK0001-012
S1B		MDI 2187 ON 23.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 23.568 4118VR0030-602
S1B		MDI 2187 OFF 23.556 2596TCS PULSE OK
S1B		DDA 2124 ON 23.820 4118VR0030-602
S1B		MDI 2187 ON 24.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 24.152 4118VR0030-602
S1B		DDA 2124 ON 24.652 4118VR0030-602
S1B		MDI 2187 OFF 24.656 2596TCS PULSE OK
S1B		MDI 2187 ON 25.728 2596TCS PULSE OK
S1B		MDI 2187 OFF 25.656 2596TCS PULSE OK
S1B	IU	MDI 2304 ON 25.732 3764S-IB STAGE SEL
	IU	LDI 1101 ON 25.736 0515S-IB STAGE SELECTOR
	IU	MDI 0816 OFF 25.736 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 25.736 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 25.736 3518REG CONT BIT 3 VERIFY IN

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	IU	MDI 0819 OFF	25.736	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	25.736	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	25.736	3522REG CONT BIT 7 VERIFY IN
S1B		MDI 2065 OFF	25.736	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2090 ON	25.736	5165VXK0005-603
	IU	MDI 0816 ON	25.740	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	25.740	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	25.740	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	25.740	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	25.740	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON	25.744	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	25.744	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	25.744	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	25.744	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	25.744	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	25.744	5166VXK0008-603
S1B		DDA 2094 ON	25.744	5167VXK0008-603
S1B		DDA 2095 ON	25.744	5168VXK0008-603
S1B		DDA 2096 ON	25.744	5169VXK0008-603
S1B		DDA 2099 ON	25.744	5172VXK0008-603
S1B	IU	MDI 2304 OFF	25.764	3764S-IB STAGE SEL
S1B	IU	MDI 2307 ON	25.764	3767RESET COMMAND
S1B S4B	IU	-1- 015 RESET	25.764	
	IU	LDI 1103 ON	25.768	0517RESET COMMAND
	IU	MDI 0817 ON	25.768	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	25.768	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	25.768	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	25.768	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 ON	25.768	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2084 ON	25.768	5160VXK0007-603
	IU	LDI 1101 OFF	25.772	0515S-IB STAGE SELECTOR
	IU	MDI 0821 ON	25.772	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2090 OFF	25.772	5165VXK0005-603
S1B	IU	MDI 2307 OFF	25.776	3767RESET COMMAND
S1B		DDA 2099 OFF	25.776	5172VXK0008-603
	IU	LDI 1091 OFF	25.780	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	25.780	0512BIT NO 8 VERIFY
S1B	IU	MDI 2304 ON	25.780	3764S-IB STAGE SEL
S1B		DDA 2093 OFF	25.780	5166VXK0008-603
S1B		DDA 2094 OFF	25.780	5167VXK0008-603
S1B		DDA 2095 OFF	25.780	5168VXK0008-603
S1B		DDA 2096 OFF	25.780	5169VXK0008-603
	IU	LDI 1094 OFF	25.784	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	25.784	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	25.784	0511BIT NO 7 VERIFY
	IU	LDI 1101 ON	25.784	0515S-IB STAGE SELECTOR

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S1B		DDA 2090 ON	25.784	5165VXK0005-603
	IU	LDI 1103 OFF	25.788	0517RESET COMMAND
	IU	MDI 0817 OFF	25.788	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	25.788	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	25.788	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	25.788	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	25.788	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 OFF	25.788	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2084 OFF	25.788	5160VXK0007-603
	IU	LDI 1090 ON	25.792	0505BIT NO 1 VERIFY
	IU	MDI 0816 OFF	25.792	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF	25.792	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	25.792	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	25.792	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	25.792	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	25.792	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2095 ON	25.792	5168VXK0008-603
S1B		DDA 2098 ON	25.792	5171VXK0008-603
S1B		DDA 2099 ON	25.792	5172VXK0008-603
S1B		DDA 2100 ON	25.792	5173VXK0008-603
	IU	LDI 1091 ON	25.796	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	25.796	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	25.796	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	25.796	0510BIT NO 6 VERIFY
	IU	MDI 0821 ON	25.796	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1095 OFF	25.808	0510BIT NO 6 VERIFY
S1B		DDA 2095 OFF	25.808	5168VXK0008-603
S1B	IU	MDI 2308 ON	25.892	3768READ COMMAND
S1B S4B	IU	-1- 360 READ	25.892	
S1B		DDA 2085 ON	25.900	5161VXK0006-603
	IU	LDI 0983 ON	25.904	0463SW SEL READ
	IU	LDI 1102 ON	25.904	0516SW SEL READ
S1B		DDA 1109 ON	25.904	4048VK0001-012
S1B	IU	MDI 2304 OFF	25.932	3764S-IB STAGE SEL
S1B	IU	MDI 2308 OFF	25.932	3768READ COMMAND
S1B		DDA 1109 OFF	25.944	4048VK0001-012
S1B		DDA 2085 OFF	25.944	5161VXK0006-603
	IU	LDI 1101 OFF	25.948	0463SW SEL READ
	IU	LDI 1101 OFF	25.948	0515S-IB STAGE SELECTOR
	IU	LDI 1102 OFF	25.948	0516SW SEL READ
	IU	MDI 0816 ON	25.948	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	25.948	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	25.948	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	25.948	3519REG CONT BIT 4 VERIFY IN
S1B		MDI 2065 ON	25.948	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2090 OFF	25.948	5165VXK0005-603

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S1B	IU	LDI 1091 OFF	25.952	0506BIT NO 2 VERIFY	
		DDA 2099 OFF	25.952	5172VXK0008-603	
	IU	LDI 1090 OFF	25.956	0505BIT NO 1 VERIFY	
	IU	LDI 1092 OFF	25.956	0507BIT NO 3 VERIFY	
	IU	LDI 1093 OFF	25.956	0508BIT NO 4 VERIFY	
S1B		DDA 2098 OFF	25.956	5171VXK0008-603	
S1B		DDA 2100 OFF	25.956	5173VXK0008-603	
S1B		MDI 2187 ON	26.028	2596TCS PULSE OK	
	IU	MDO 1958 ON	26.172	2419PITCH SELECT ON	
	IU	MDI 0893 ON	26.176	3581PITCH SELECT ON IND	
	IU	LDO 0893 ON	26.224	4678PITCH SELECT ON IND	
S1B		MDI 2187 OFF	26.656	2596TCS PULSE OK	
S1B		MDI 2187 ON	27.028	2596TCS PULSE OK	
S1B		DDA 2124 ON	27.568	4118VR0030-602	
S1B		MDI 2187 OFF	27.656	2596TCS PULSE OK	
S1B	IU	MDI 2306 ON	27.748	3766IU STAGE SEL	
	IU	LDI 1098 ON	27.752	0513IU STAGE SELECTOR	
	IU	MDI 0817 OFF	27.752	3517REG CONT BIT 2 VERIFY IN	
	IU	MDI 0821 OFF	27.752	3521REG CONT BIT 6 VERIFY IN	
	IU	MDI 0822 OFF	27.752	3522REG CONT BIT 7 VERIFY IN	
S1B		DDA 2087 ON	27.752	5163VXK0005-603	
	IU	MDI 0782 OFF	27.756	3482SW SEL ZERO IND	
	IU	MDI 0816 OFF	27.756	3516REG CONT BIT 1 VERIFY IN	
	IU	MDI 0818 OFF	27.756	3518REG CONT BIT 3 VERIFY IN	
	IU	MDI 0819 OFF	27.756	3519REG CONT BIT 4 VERIFY IN	
	IU	MDI 0820 OFF	27.756	3520REG CONT BIT 5 VERIFY IN	
	IU	MDI 0821 ON	27.756	3521REG CONT BIT 6 VERIFY IN	
	IU	MDI 0823 OFF	27.756	3523REG CONT BIT 8 VERIFY IN	
	IU	LDI 1090 ON	27.760	0505BIT NO 1 VERIFY	
	IU	LDI 1091 ON	27.760	0506BIT NO 2 VERIFY	
	IU	LDI 1092 ON	27.760	0507BIT NO 3 VERIFY	
	IU	LDI 1093 ON	27.760	0508BIT NO 4 VERIFY	
	IU	LDI 1094 ON	27.760	0509BIT NO 5 VERIFY	
	IU	LDI 1096 ON	27.760	0511BIT NO 7 VERIFY	
	IU	LDI 1097 ON	27.760	0512BIT NO 8 VERIFY	
S1B		DDA 2086 OFF	27.760	5162VXK0003-603	
S1B		DDA 2093 ON	27.760	5166VXK0008-603	
S1B		DDA 2094 ON	27.760	5167VXK0008-603	
S1B		DDA 2096 ON	27.760	5169VXK0008-603	
S1B		DDA 2098 ON	27.760	5171VXK0008-603	
S1B		DDA 2099 ON	27.760	5172VXK0008-603	
S1B		DDA 2100 ON	27.760	5173VXK0008-603	
S1B	IU	MDI 2306 OFF	27.788	3766IU STAGE SEL	
S1B	IU	MDI 2307 ON	27.788	3767RESET COMMAND	
S1B S4B	IU	-3- 040 RESET	27.788		

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915	IO	LBI 1103 ON	27.792	0517RESET COMMAND
		DDA 2084 ON	27.792	5160VXK0007-603
	IO	LDI 1098 OFF	27.796	0513IU STAGE SELECTOR
	IO	MCI 0782 ON	27.796	3482SW SEL ZERO IND
	IO	MCI 0816 ON	27.796	3516REG CONT BIT 1 VERIFY IN
	IO	MCI 0817 ON	27.796	3517REG CONT BIT 2 VERIFY IN
	IO	MCI 0818 ON	27.796	3518REG CONT BIT 3 VERIFY IN
	IO	MCI 0819 ON	27.796	3519REG CONT BIT 4 VERIFY IN
	IO	MCI 0820 ON	27.796	3520REG CONT BIT 5 VERIFY IN
	IO	MCI 0822 ON	27.796	3522REG CONT BIT 7 VERIFY IN
	IO	MCI 0823 ON	27.796	3523REG CONT BIT 8 VERIFY IN
915		DDA 2087 OFF	27.796	5163VXK0005-603
915		DDA 2086 ON	27.800	5162VXK0003-603
	IO	LDI 1091 OFF	27.804	0506BIT NO 2 VERIFY
	IO	LDI 1092 OFF	27.804	0507BIT NO 3 VERIFY
	IO	LDI 1097 OFF	27.804	0512BIT NO 8 VERIFY
915	IO	MCI 2306 ON	27.804	3766IU STAGE SEL
915	IO	MCI 2307 OFF	27.804	3767RESET COMMAND
915		DDA 2093 OFF	27.804	5166VXK0008-603
915		DDA 2094 OFF	27.804	5167VXK0008-603
915		DDA 2096 OFF	27.804	5169VXK0008-603
915		DDA 2098 OFF	27.804	5171VXK0008-603
915		DDA 2099 OFF	27.804	5172VXK0008-603
915		DDA 2100 OFF	27.804	5173VXK0008-603
	IO	LDI 1090 OFF	27.808	0505BIT NO 1 VERIFY
	IO	LDI 1093 OFF	27.808	0508BIT NO 4 VERIFY
	IO	LDI 1094 OFF	27.808	0509BIT NO 5 VERIFY
	IO	LDI 1096 OFF	27.808	0511BIT NO 7 VERIFY
	IO	LDI 1098 ON	27.808	0513IU STAGE SELECTOR
915		DDA 2087 ON	27.808	5163VXK0005-603
915	IO	LBI 1103 OFF	27.812	0517RESET COMMAND
		DDA 2084 OFF	27.812	5160VXK0007-603
	IO	MCI 0782 OFF	27.816	3482SW SEL ZERO IND
	IO	MCI 0817 OFF	27.816	3517REG CONT BIT 2 VERIFY IN
	IO	MCI 0821 OFF	27.816	3521REG CONT BIT 6 VERIFY IN
915		DDA 2124 OFF	27.816	4118VR0030-602
915		DDA 2095 ON	27.816	5168VXK0008-603
915		DDA 2099 ON	27.816	5172VXK0008-603
915		DDA 2100 ON	27.816	5173VXK0008-603
	IO	LDI 1090 ON	27.820	0505BIT NO 1 VERIFY
	IO	LDI 1091 ON	27.820	0506BIT NO 2 VERIFY
	IO	LDI 1093 ON	27.820	0508BIT NO 4 VERIFY
	IO	LDI 1095 ON	27.820	0510BIT NO 6 VERIFY
915		DDA 2086 OFF	27.820	5162VXK0003-603
	IO	LDI 1090 OFF	27.832	0505BIT NO 1 VERIFY
	IO	LDI 1093 OFF	27.832	0508BIT NO 4 VERIFY

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Channel	Address	Value	Unit	Description
S1B	DDA 2100	OFF	27.832	5173VXK0008-603
S1B	MDI 2308	ON	27.880	3768READ COMMAND
S1B S4B	-3- 335	READ	27.880	
	LDI 1102	ON	27.884	0516SW SEL READ
S1B	DDA 2085	ON	27.884	5161VXK0006-603
S1B	DDA 2149	ON	27.892	4134VK0004-603
S1B	MDI 2306	OFF	27.916	3766IU STAGE SEL
S1B	MDI 2308	OFF	27.916	3768READ COMMAND
	LDI 0983	OFF	27.928	0463SW SEL READ
	LDI 1098	OFF	27.928	0513IU STAGE SELECTOR
	LDI 1102	OFF	27.928	0516SW SEL READ
S1B	DDA 2085	OFF	27.928	5161VXK0006-603
S1B	DDA 2087	OFF	27.928	5163VXK0005-603
	MDI 0782	ON	27.932	3482SW SEL ZERO IND
	MDI 0817	ON	27.932	3517REG CONT BIT 2 VERIFY IN
	MDI 0821	ON	27.932	3521REG CONT BIT 6 VERIFY IN
	LDI 1091	OFF	27.936	0506BIT NO 2 VERIFY
S1B	DDA 2149	OFF	27.936	4134VK0004-603
S1B	DDA 2086	ON	27.936	5162VXK0003-603
S1B	DDA 2099	OFF	27.936	5172VXK0008-603
	LDI 1095	OFF	27.940	0510BIT NO 6 VERIFY
S1B	DDA 2095	OFF	27.940	5168VXK0008-603
S1B	DDA 2124	ON	27.984	4118VR0030-602
S1B	MDI 2187	ON	28.028	2596TCS PULSE OK
S1B	MDI 2187	OFF	28.656	2596TCS PULSE OK
	MDI 0420	ON	28.936	1989NEG FORCE CMD ON
	MDI 0895	ON	28.940	3583NEG FORCE CMD ON IND
S4B	LDO 0895	ON	28.992	4740NEG FORCE CMD ON IND
S1B	MDI 2187	ON	29.028	2596TCS PULSE OK
S1B	DDA 2124	OFF	29.068	4118VR0030-602
S1B	DDA 2124	ON	29.152	4118VR0030-602
S1B	DDA 2124	OFF	29.568	4118VR0030-602
S1B	MDI 2187	OFF	29.656	2596TCS PULSE OK
	MDI 0420	OFF	29.936	1989NEG FORCE CMD ON
	MDI 0895	OFF	29.940	3583NEG FORCE CMD ON IND
S4B	LDO 0895	OFF	29.992	4740NEG FORCE CMD ON IND
S1B	MDI 2187	ON	30.028	2596TCS PULSE OK
S1B	DDA 2124	ON	30.316	4118VR0030-602
S1B	DDA 2124	OFF	30.492	4118VR0030-602
S1B	MDI 2187	OFF	30.656	2596TCS PULSE OK
S1B	DDA 2124	ON	30.900	4118VR0030-602
S1B	MDI 2187	ON	31.028	2596TCS PULSE OK
S1B	MDI 2187	OFF	31.656	2596TCS PULSE OK
S1B	MDI 2187	ON	32.028	2596TCS PULSE OK
S1B	DDA 2124	OFF	32.400	4118VR0030-602

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S1B		MDI 2187 OFF	32.656	2596TCS PULSE OK
S1B		DDA 2124 ON	32.732	4118VR0030-602
S1B	IU	MDI 2306 ON	32.744	3766IU STAGE SEL
S1B		DDA 2307 ON	32.744	5163VXK00005-603
	IU	LDI 1098 ON	32.752	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	32.752	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	32.752	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	32.752	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	32.752	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	32.752	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	32.752	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	32.752	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	32.752	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON	32.760	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	32.760	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	32.760	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	32.760	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	32.760	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	32.760	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	32.760	0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF	32.760	5162VXK00003-603
S1B		DDA 2093 ON	32.760	5166VXK00008-603
S1B		DDA 2094 ON	32.760	5167VXK00008-603
S1B		DDA 2095 ON	32.760	5168VXK00008-603
S1B		DDA 2098 ON	32.760	5171VXK00008-603
S1B		DDA 2099 ON	32.760	5172VXK00008-603
S1B		DDA 2100 ON	32.760	5173VXK00008-603
S1B	IU	MDI 2306 OFF	32.784	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	32.784	3767RESET COMMAND
S1B S4B	IU	-3- 020 RESET	32.784	
	IU	MDI 0782 ON	32.788	3482SW SEL ZERO IND
	IU	MDI 0816 ON	32.788	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	32.788	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	32.788	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	32.788	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	32.788	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	32.788	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1103 ON	32.792	0517RESET COMMAND
	IU	MDI 0821 ON	32.792	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2084 ON	32.792	5160VXK00007-603
S1B		DDA 2086 ON	32.792	5162VXK00003-603
S1B		DDA 2087 OFF	32.792	5163VXK00005-603
S1B		DDA 2099 OFF	32.792	5172VXK00008-603
	IU	LDI 1090 OFF	32.796	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	32.796	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	32.796	0507BIT NO 3 VERIFY

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	IU	LDI 1093	OFF	32.796	0508BIT NO 4 VERIFY
	IU	LDI 1097	OFF	32.796	0512BIT NO 8 VERIFY
	IU	LDI 1098	OFF	32.796	0513IU STAGE SELECTOR
S1B		DDA 2093	OFF	32.796	5166VXK0008-603
S1B		DDA 2094	OFF	32.796	5167VXK0008-603
S1B		DDA 2095	OFF	32.796	5168VXK0008-603
S1B		DDA 2098	OFF	32.796	5171VXK0008-603
S1B		DDA 2100	OFF	32.796	5173VXK0008-603
	IU	LDI 1095	OFF	32.800	0510BIT NO 6 VERIFY
	IU	LDI 1096	OFF	32.800	0511BIT NO 7 VERIFY
S1B	IU	MDI 2306	ON	32.800	3766IU STAGE SEL
S1B	IU	MDI 2307	OFF	32.800	3767RESET COMMAND
	IU	LDI 1098	ON	32.808	0513IU STAGE SELECTOR
	IU	MDI 0817	OFF	32.808	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	32.808	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	32.808	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	OFF	32.808	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	32.808	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	32.808	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087	ON	32.808	5163VXK0005-603
	IU	LDI 1103	OFF	32.812	0517RESET COMMAND
	IU	MDI 0782	OFF	32.812	3482SW SEL ZERO IND
	IU	MDI 0818	ON	32.812	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	32.812	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	32.812	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	ON	32.812	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	ON	32.812	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	ON	32.812	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084	OFF	32.812	5160VXK0007-603
S1B		DDA 2086	OFF	32.816	5162VXK0003-603
S1B		DDA 2096	ON	32.816	5169VXK0008-603
S1B		DDA 2099	ON	32.816	5172VXK0008-603
	IU	LDI 1091	ON	32.820	0506BIT NO 2 VERIFY
	IU	LDI 1094	ON	32.820	0509BIT NO 5 VERIFY
S1B	IU	MDI 2308	ON	32.880	3768READ COMMAND
S1B S4B	IU	-3- 355	READ	32.880	
	IU	LDI 0983	ON	32.884	0463SW SEL READ
	IU	LDI 1102	ON	32.884	0516SW SEL READ
S1B		DDA 2085	ON	32.884	5161VXK0006-603
S1B		DDA 2149	ON	32.888	4134VK0004-603
S1B	IU	MDI 2306	OFF	32.912	3766IU STAGE SEL
S1B	IU	MDI 2308	OFF	32.912	3768READ COMMAND
	IU	LDI 0983	OFF	32.920	0463SW SEL READ
	IU	LDI 1098	OFF	32.920	0513IU STAGE SELECTOR
	IU	LDI 1102	OFF	32.920	0516SW SEL READ
S1B		DDA 2085	OFF	32.920	5161VXK0006-603

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S1B		DDA 2087 OFF 32.920 5163VXK0005-603
	IU	MDI 0782 ON 32.928 3482SW SEL ZERO IND
	IU	MDI 0817 ON 32.928 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON 32.928 3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2086 ON 32.932 5162VXK0003-603
	IU	LDI 1091 OFF 32.936 0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF 32.936 4134VK0004-603
S1B		DDA 2096 OFF 32.936 5169VXK0008-603
S1B		DDA 2099 OFF 32.936 5172VXK0008-603
	IU	LDI 1094 OFF 32.940 0509BIT NO 5 VERIFY
S1B		MDI 2187 ON 33.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 33.568 4118VR0030-602
S1B		MDI 2187 OFF 33.656 2596TCS PULSE OK
S1B		DDA 2124 OFF 33.816 4118VR0030-602
S1B		MDI 2187 ON 34.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 34.484 4118VR0030-602
S1B		MDI 2187 OFF 34.656 2596TCS PULSE OK
S1B		DDA 2124 ON 34.732 4118VR0030-602
S1B		MDI 2187 ON 35.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 35.400 4118VR0030-602
S1B		MDI 2187 OFF 35.656 2596TCS PULSE OK
S1B		MDI 2187 ON 36.028 2596TCS PULSE OK
S1B		DDA 2124 ON 36.400 4118VR0030-602
S1B		MDI 2187 OFF 36.656 2596TCS PULSE OK
S1B		MDI 2187 ON 37.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 37.148 4118VR0030-602
S1B		DDA 2124 ON 37.648 4118VR0030-602
S1B		MDI 2187 OFF 37.656 2596TCS PULSE OK
S1B		MDI 2187 ON 38.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 38.564 4118VR0030-602
S1B		MDI 2187 OFF 38.656 2596TCS PULSE OK
S1B		DDA 2124 ON 38.816 4118VR0030-602
S1B		MDI 2187 ON 39.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 39.648 4118VR0030-602
S1B		MDI 2187 OFF 39.656 2596TCS PULSE OK
S1B		MDI 2187 ON 40.028 2596TCS PULSE OK
S1B		DDA 2124 ON 40.148 4118VR0030-602
S1B		DDA 2124 OFF 40.648 4118VR0030-602
S1B		MDI 2187 OFF 40.656 2596TCS PULSE OK
S1B		DDD 1540 ON 40.700 1540DDAS SPARE
	IU	MDI 0617 ON 40.704 3317S/C CUTOFF ENABLE B
S1B		DDA 2124 ON 40.732 4118VR0030-602
S1B	IU	MDI 2306 ON 40.748 3766IU STAGE SEL
S1B		DDA 2033 ON 40.748 4083VK0018-602
	IU	MDI 0817 OFF 40.752 3517REG CONT BIT 2 VERIFY IN
	IU	LDI 1098 ON 40.756 0513IU STAGE SELECTOR

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	IU	MDI 0782 OFF	40.756	3482SW SEL ZERO IND
	IU	MDI 0818 OFF	40.756	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	40.756	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	40.756	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	40.756	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	40.756	5167VXK0008-603
S1B		DDA 2087 ON	40.756	5163VXK0005-603
S1B		DDA 2093 ON	40.756	5166VXK0008-603
S1B		DDA 2094 ON	40.756	5167VXK0008-603
S1B		DDA 2098 ON	40.756	5171VXK0008-603
S1B		DDA 2099 ON	40.756	5172VXK0008-603
	IU	LDI 1091 ON	40.760	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	40.760	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	40.760	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	40.760	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	40.760	0512BIT NO 8 VERIFY
	IU	LDO 0617 OFF	40.768	4384S/C CUTOFF ENABLE B
S1B	IU	MDI 2308 ON	40.880	3768READ COMMAND
S1B S4B	IU	-3- 041 READ	40.880	
	IU	LDI 0983 ON	40.884	0463SW SEL READ
	IU	LDI 1102 ON	40.884	0516SW SEL READ
S1B		DDA 2085 ON	40.884	5161VXK0006-603
	IU	MDI 0616 ON	40.888	3316S/C CUTOFF ENABLE A
S1B		DDA 2149 ON	40.888	4134VK0004-603
S1B	IU	MDI 2306 OFF	40.912	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	40.912	3768READ COMMAND
S1B		DDA 2034 ON	40.916	4084VK0017-602
S1B		DDA 2087 OFF	40.924	5161VXK0006-603
	IU	LDI 0983 OFF	40.928	0463SW SEL READ
	IU	LDI 1098 OFF	40.928	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	40.928	0516SW SEL READ
	IU	MDI 0782 ON	40.928	3482SW SEL ZERO IND
	IU	MDI 0817 ON	40.928	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	40.928	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	40.928	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	40.928	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	40.928	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF	40.928	5161VXK0006-603
S1B		DDA 2149 OFF	40.932	4134VK0004-603
S1B		DDA 2086 ON	40.932	5162VXK0008-603
S1B		DDA 2099 OFF	40.932	5172VXK0008-603
	IU	LDI 1091 OFF	40.936	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	40.936	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	40.936	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	40.936	5166VXK0008-603
S1B		DDA 2094 OFF	40.936	5167VXK0008-603

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S1B		DDA 2098 OFF 40.936 5171VXK0008-603
IU		LDI 1093 OFF 40.940 0508BIT NO 4 VERIFY
IU		LDI 1096 OFF 40.940 0511BIT NO 7 VERIFY
IU		LDI 0616 ON 40.952 4383S/C CUTOFF ENABLE A
S1B		MDI 2187 ON 41.028 2596TCS PULSE OK
S1B		MDI 2187 OFF 41.656 2596TCS PULSE OK
S1B		DDA 2124 OFF 41.900 4118VR0030-602
S1B		MDI 2187 ON 42.028 2596TCS PULSE OK
S1B		MDI 2187 OFF 42.656 2596TCS PULSE OK
S1B		DDA 2124 ON 42.816 4118VR0030-602
S1B		MDI 2187 ON 43.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 43.064 4118VR0030-602
S1B		DDA 2124 ON 43.480 4118VR0030-602
S1B		MDI 2187 OFF 43.656 2596TCS PULSE OK
S1B		DDA 2124 OFF 43.980 4118VR0030-602
S1B		MDI 2187 ON 44.028 2596TCS PULSE OK
S1B		DDA 2124 ON 44.232 4118VR0030-602
S1B		MDI 2187 OFF 44.656 2596TCS PULSE OK
S1B		DDA 2124 OFF 44.732 4118VR0030-602
S1B		MDI 2187 ON 45.028 2596TCS PULSE OK
S1B		DDA 2124 ON 45.564 4118VR0030-602
S1B		MDI 2187 OFF 45.656 2596TCS PULSE OK
S1B		DDA 2124 OFF 45.896 4118VR0030-602
S1B		MDI 2187 ON 46.028 2596TCS PULSE OK
S1B		DDA 2124 ON 46.480 4118VR0030-602
S1B		MDI 2187 OFF 46.656 2596TCS PULSE OK
S1B		DDA 2124 OFF 46.732 4118VR0030-602
S1B		DDA 2124 ON 46.896 4118VR0030-602
S1B		MDI 2187 ON 47.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 47.232 4118VR0030-602
S1B		MDI 2187 OFF 47.656 2596TCS PULSE OK
S1B		MDI 2187 ON 48.028 2596TCS PULSE OK
S1B		DDA 2124 ON 48.148 4118VR0030-602
S1B		MDI 2187 OFF 48.656 2596TCS PULSE OK
S1B		DDA 2124 OFF 48.896 4118VR0030-602
S1B		DDA 2124 ON 48.980 4118VR0030-602
S1B		MDI 2187 ON 49.028 2596TCS PULSE OK
S1B		MDI 2187 OFF 49.656 2596TCS PULSE OK
S1B		MDI 2187 ON 50.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 50.312 4118VR0030-602
S1B		DDA 2124 ON 50.480 4118VR0030-602
S1B		MDI 2187 OFF 50.656 2596TCS PULSE OK
S1B		MDI 2187 ON 51.028 2596TCS PULSE OK
S1B		DDA 2124 OFF 51.648 4118VR0030-602
S1B		MDI 2187 OFF 51.656 2596TCS PULSE OK
S1B		DDA 2124 ON 51.732 4118VR0030-602

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	IU	MDI 0635 ON	51.968	3335EDSRG ZERO TORQUE COMM
S10		MDI 2187 ON	52.028	2596TCS PULSE OK
S18		DDA 2124 OFF	52.232	4118VR0030-602
S18		DDA 2124 ON	52.448	4118VR0030-602
S18		MDI 2187 OFF	52.556	2596TCS PULSE OK
S18		DDA 2124 OFF	52.312	4118VR0030-602
S18		DDA 2124 ON	52.396	4118VR0030-602
S18		MDI 2187 ON	53.028	2596TCS PULSE OK
S18		DDA 2124 OFF	53.148	4118VR0030-602
S18		DDA 2124 ON	53.564	4118VR0030-602
S18		MDI 2187 OFF	53.556	2596TCS PULSE OK
S18		MDI 2187 ON	54.028	2596TCS PULSE OK
S18		DDA 2124 OFF	54.064	4118VR0030-602
S18		DDA 2124 ON	54.228	4118VR0030-602
S18		DDA 2124 OFF	54.564	4118VR0030-602
S18		MDI 2187 OFF	54.656	2596TCS PULSE OK
S18		DDA 2124 ON	54.896	4118VR0030-602
S18		MDI 2187 ON	55.028	2596TCS PULSE OK
S18		MDI 2187 OFF	55.656	2596TCS PULSE OK
S18		MDI 2187 ON	56.028	2596TCS PULSE OK
S18		MDI 2187 OFF	56.656	2596TCS PULSE OK
S18		MDI 2187 ON	57.028	2596TCS PULSE OK
	IU	MDI 2238 ON	57.164	2607RAMP NO 3 ZERO
	IU	MDI 2236 ON	57.168	2605RAMP NO 1 ZERO
	IU	MDI 2237 ON	57.168	2606RAMP NO 2 ZERO
	IU	MDI 0635 OFF	57.172	3335EDSRG ZERO TORQUE COMM
	IU	MDC 1904 OFF	57.176	1601EDS RG ROLL AXIS SEL ON
	IU	MDI 0632 OFF	57.180	3332EDSRG ROLL AXIS SELECT
	IU	LDC 0632 OFF	57.272	4399EDSRG ROLL AXIS SELECT
S18		DDA 2126 ON	57.312	4120VR0028-602
S18		DDA 2125 ON	57.396	4119VR0029-602
S18		MDI 2187 OFF	57.656	2596TCS PULSE OK
S18		MDI 2187 ON	58.024	2596TCS PULSE OK
S18		MDI 2187 OFF	58.656	2596TCS PULSE OK
S18		MDI 2187 ON	59.024	2596TCS PULSE OK
S18		MDI 2187 OFF	59.656	2596TCS PULSE OK
S18 S48	IU	CDC 00 1		
S18		MDI 2187 ON	00.024	2596TCS PULSE OK
S18		MDI 2187 OFF	00.656	2596TCS PULSE OK
S18		MDI 2187 ON	01.024	2596TCS PULSE OK
S18		MDI 2187 OFF	01.656	2596TCS PULSE OK
S18		MDI 2187 ON	02.024	2596TCS PULSE OK
S18		MDI 2187 OFF	02.656	2596TCS PULSE OK
	IU	MDI 1969 OFF	02.756	3970MOV PRISM ACQ ON IND
	IU	LDC 1549 OFF	02.800	4698MOV PRISM ACQ ON IND
S18		MDI 2187 ON	03.024	2596TCS PULSE OK

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S1B		MDI 2187 OFF	03.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	04.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	04.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	05.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	05.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	06.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	06.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	07.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	07.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	08.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	08.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	09.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	09.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	10.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	10.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	11.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	11.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	12.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	12.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	13.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	13.656	2596TCS	PULSE	OK
	IU	MDO 1906 ON	13.932	1603EDS	RG PITCH	AXIS SEL ON
	IU	MDI 0631 ON	13.936	3331EDSRG	PITCH	AXIS SELECT
	IU	LDO 0631 ON	13.988	4398EDSRG	PITCH	AXIS SELECT
S1B		MDI 2187 ON	14.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	14.656	2596TCS	PULSE	OK
S1B		MDI 2187 ON	15.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	15.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	16.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	16.652	2596TCS	PULSE	OK
	IU	MDO 0695 ON	16.784	2027RAMP		NEG
	IU	MDI 0889 ON	16.992	3577RAMP		IND
	IU	MDI 2236 OFF	17.008	2605RAMP	NO 1	ZERO
	IU	MDI 2237 OFF	17.008	2606RAMP	NO 2	ZERO
	IU	MDI 2238 OFF	17.008	2607RAMP	NO 3	ZERO
S1B		MDI 2187 ON	17.124	2596TCS	PULSE	OK
	IU	LDO 0889 ON	17.144	4674RAMP		IND
S1B		MDI 2124 OFF	17.308	4118VR0030-602		
S1B		MDI 2187 OFF	17.652	2596TCS	PULSE	OK
	IU	MDO 0695 OFF	17.984	2027RAMP		NEG
	IU	MDI 0889 OFF	17.992	3577RAMP		IND
S1B		MDI 2187 ON	18.124	2596TCS	PULSE	OK
	IU	LDO 0889 OFF	18.152	4674RAMP		IND
S1B		MDI 2187 OFF	18.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	19.124	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	19.652	2596TCS	PULSE	OK

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S1B		MDI 2187 ON	20.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	20.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	21.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	21.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	22.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	22.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	23.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	23.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	24.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	24.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	25.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	25.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	26.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	26.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	27.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	27.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	28.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	28.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	29.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	29.652	2596TCS	PULSE	OK
S1B		MDI 2187 ON	30.024	2596TCS	PULSE	OK
S1B		MDI 2187 OFF	30.652	2596TCS	PULSE	OK
S1B	IU	MDI 2306 ON	30.924	3766IU	STAGE SEL	
	IU	LDI 1092 ON	30.932	0507BIT	NO 3 VERIFY	
	IU	LDI 1096 ON	30.932	0511BIT	NO 7 VERIFY	
	IU	LDI 1097 ON	30.932	0512BIT	NO 8 VERIFY	
	IU	LDI 1098 ON	30.932	0513IU	STAGE SELECTOR	
	IU	MDI 0782 OFF	30.932	3482SW	SEL ZERO IND	
	IU	MDI 0816 OFF	30.932	3516REG	CONT BIT 1 VERIFY	IN
	IU	MDI 0817 OFF	30.932	3517REG	CONT BIT 2 VERIFY	IN
	IU	MDI 0818 OFF	30.932	3518REG	CONT BIT 3 VERIFY	IN
	IU	MDI 0819 OFF	30.932	3519REG	CONT BIT 4 VERIFY	IN
	IU	MDI 0820 OFF	30.932	3520REG	CONT BIT 5 VERIFY	IN
	IU	MDI 0822 OFF	30.932	3522REG	CONT BIT 7 VERIFY	IN
	IU	MDI 0823 OFF	30.932	3523REG	CONT BIT 8 VERIFY	IN
S1B		DDA 2086 OFF	30.932	5162VXK	0003-603	
S1B		DDA 2087 ON	30.932	5163VXK	0005-603	
S1B		DDA 2093 ON	30.932	5166VXK	0008-603	
S1B		DDA 2094 ON	30.932	5167VXK	0008-603	
S1B		DDA 2098 ON	30.932	5171VXK	0008-603	
S1B		DDA 2099 ON	30.932	5172VXK	0008-603	
	IU	LDI 1091 ON	30.936	0506BIT	NO 2 VERIFY	
	IU	LDI 1093 ON	30.936	0508BIT	NO 4 VERIFY	
S1B		DDA 2096 ON	30.940	5169VXK	0008-603	
S1B		DDA 2100 ON	30.940	5173VXK	0008-603	
	IU	LDI 1090 ON	30.944	0505BIT	NO 1 VERIFY	

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	IU	LDI 1094 ON	30.944	0509BIT NO 5 VERIFY	
S1B	IU	MDI 2306 OFF	30.956	3766IU STAGE SEL	
S1B	IU	MDI 2307 ON	30.956	3767RESET COMMAND	
S1B S48	IU	-3- 040 RESET	30.956		
	IU	MDI 0782 ON	30.964	3482SW SEL ZERO IND	
	IU	MDI 0816 ON	30.964	3516REG CONT BIT 1 VERIFY	IN
	IU	MDI 0817 ON	30.964	3517REG CONT BIT 2 VERIFY	IN
	IU	MDI 0818 ON	30.964	3518REG CONT BIT 3 VERIFY	IN
	IU	MDI 0819 ON	30.964	3519REG CONT BIT 4 VERIFY	IN
	IU	MDI 0820 ON	30.964	3520REG CONT BIT 5 VERIFY	IN
	IU	MDI 0822 ON	30.964	3522REG CONT BIT 7 VERIFY	IN
	IU	MDI 0823 ON	30.964	3523REG CONT BIT 8 VERIFY	IN
S1B		DDA 2084 ON	30.964	5160VXK0007-603	
	IU	LDI 1091 OFF	30.968	0506BIT NO 2 VERIFY	
	IU	LDI 1098 OFF	30.968	0513IU STAGE SELECTOR	
	IU	LDI 1103 ON	30.968	0517RESET COMMAND	
S1B		DDA 2086 ON	30.968	5162VXK0003-603	
S1B		DDA 2087 OFF	30.968	5163VXK0005-603	
S1B		DDA 2093 OFF	30.968	5166VXK0008-603	
S1B		DDA 2098 OFF	30.968	5171VXK0008-603	
S1B		DDA 2099 OFF	30.968	5172VXK0008-603	
	IU	LDI 1090 OFF	30.972	0505BIT NO 1 VERIFY	
	IU	LDI 1092 OFF	30.972	0507BIT NO 3 VERIFY	
	IU	LDI 1093 OFF	30.972	0508BIT NO 4 VERIFY	
	IU	LDI 1094 OFF	30.972	0509BIT NO 5 VERIFY	
	IU	LDI 1096 OFF	30.972	0511BIT NO 7 VERIFY	
	IU	LDI 1097 OFF	30.972	0512BIT NO 8 VERIFY	
S1B	IU	MDI 2306 ON	30.972	3766IU STAGE SEL	
S1B	IU	MDI 2307 OFF	30.972	3767RESET COMMAND	
S1B		DDA 2087 ON	30.972	5163VXK0005-603	
S1B		DDA 2094 OFF	30.972	5167VXK0008-603	
S1B		DDA 2096 OFF	30.972	5169VXK0008-603	
S1B		DDA 2100 OFF	30.972	5173VXK0008-603	
	IU	LDI 1098 ON	30.976	0513IU STAGE SELECTOR	
	IU	MDI 0782 OFF	30.984	3482SW SEL ZERO IND	
	IU	MDI 0817 OFF	30.984	3517REG CONT BIT 2 VERIFY	IN
	IU	MDI 0821 OFF	30.984	3521REG CONT BIT 6 VERIFY	IN
S1B		DDA 2084 OFF	30.984	5160VXK0007-603	
	IU	LDI 1103 OFF	30.988	0517RESET COMMAND	
	IU	LDI 1091 ON	30.992	0506BIT NO 2 VERIFY	
	IU	LDI 1095 ON	30.992	0510BIT NO 6 VERIFY	
S1B		DDA 2086 OFF	30.992	5162VXK0003-603	
S1B		DDA 2095 ON	30.992	5168VXK0008-603	
S1B		DDA 2099 ON	30.992	5172VXK0008-603	
S1B		MDI 2187 ON	31.024	2596TCS PULSE OK	
S1B	IU	MDI 2308 ON	31.084	3768READ COMMAND	

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S1B S4B	IU	-3-	335	READ	31.084	
	IU	LDI	0983	ON	31.092	0463SW SEL READ
	IU	LDI	1102	ON	31.092	0516SW SEL READ
S1B		DDA	2085	ON	31.092	5161VXK0006-603
S1B		DDA	2149	ON	31.096	4134VK0004-603
S1B	IU	MDI	2306	OFF	31.128	3766IU STAGE SEL
S1B	IU	MDI	2308	OFF	31.128	3768READ COMMAND
	IU	LDI	0983	OFF	31.144	0463SW SEL READ
	IU	LDI	1098	OFF	31.144	0513IU STAGE SELECTOR
	IU	LDI	1102	OFF	31.144	0516SW SEL READ
	IU	MDI	0782	ON	31.144	3482SW SEL ZERO IND
	IU	MDI	0817	ON	31.144	3517REG CONT BIT 2 VERIFY IN
	IU	MDI	0821	ON	31.144	3521REG CONT BIT 6 VERIFY IN
S1B		DDA	2085	OFF	31.144	5161VXK0006-603
S1B		DDA	2087	OFF	31.144	5163VXK0005-603
S1B		DDA	2086	ON	31.148	5162VXK0003-603
	IU	LDI	1091	OFF	31.152	0506BIT NO 2 VERIFY
S1B		DDA	2149	OFF	31.152	4134VK0004-603
S1B		DDA	2099	OFF	31.152	5172VXK0008-603
	IU	LDI	1095	OFF	31.156	0510BIT NO 6 VERIFY
S1B		DDA	2095	OFF	31.156	5168VXK0008-603
S1B		MDI	2187	OFF	31.652	2596TCS PULSE OK
S1B		MDI	2187	ON	32.024	2596TCS PULSE OK
S1B		MDI	2187	OFF	32.652	2596TCS PULSE OK
S1B		MDI	2187	ON	33.024	2596TCS PULSE OK
S1B		MDI	2187	OFF	33.652	2596TCS PULSE OK
S1B		MDI	2187	ON	34.024	2596TCS PULSE OK
S1B		MDI	2187	OFF	34.652	2596TCS PULSE OK
S1B		MDI	2187	ON	35.024	2596TCS PULSE OK
S1B		MDI	2187	OFF	35.652	2596TCS PULSE OK
S1B	IU	MDI	2306	ON	35.928	3766IU STAGE SEL
	IU	LDI	1098	ON	35.932	0513IU STAGE SELECTOR
	IU	MDI	0817	OFF	35.932	3517REG CONT BIT 2 VERIFY IN
	IU	MDI	0821	OFF	35.932	3521REG CONT BIT 6 VERIFY IN
S1B		DDA	2087	ON	35.932	5163VXK0005-603
	IU	MDI	0782	OFF	35.936	3482SW SEL ZERO IND
	IU	MDI	0816	OFF	35.936	3516REG CONT BIT 1 VERIFY IN
	IU	MDI	0818	OFF	35.936	3518REG CONT BIT 3 VERIFY IN
	IU	MDI	0819	OFF	35.936	3519REG CONT BIT 4 VERIFY IN
	IU	MDI	0822	OFF	35.936	3522REG CONT BIT 7 VERIFY IN
	IU	MDI	0823	OFF	35.936	3523REG CONT BIT 8 VERIFY IN
	IU	LDI	1090	ON	35.940	0505BIT NO 1 VERIFY
	IU	LDI	1091	ON	35.940	0506BIT NO 2 VERIFY
	IU	LDI	1092	ON	35.940	0507BIT NO 3 VERIFY
	IU	LDI	1093	ON	35.940	0508BIT NO 4 VERIFY
	IU	LDI	1096	ON	35.940	0511BIT NO 7 VERIFY

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	IO	LDI 1097 ON	35.940	0512BIT NO 8 VERIFY
S18		DDA 2086 OFF	35.940	5162VXK0003-603
S18		DDA 2093 ON	35.940	5166VXK0008-603
S18		DDA 2094 ON	35.940	5167VXK0008-603
S18		DDA 2095 ON	35.940	5168VXK0008-603
S18		DDA 2096 ON	35.940	5171VXK0008-603
S18		DDA 2099 ON	35.940	5172VXK0008-603
S18		DDA 2100 ON	35.940	5173VXK0008-603
	IO	LDI 1095 ON	35.944	0510BIT NO 6 VERIFY
S18	IO	MDI 2306 OFF	35.960	3766IU STAGE SEL
S18	IO	MDI 2307 ON	35.960	3767RESET COMMAND
S18	IO	-3- 020 RESET	35.960	
S18		DDA 2084 ON	35.964	5160VXK0007-603
	IO	LDI 1098 OFF	35.968	0513IU STAGE SELECTOR
	IO	LDI 1103 ON	35.968	0517RESET COMMAND
	IO	MDI 0782 ON	35.968	3482SW SEL ZERO IND
	IO	MDI 0816 ON	35.968	3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0817 ON	35.968	3517REG CONT BIT 2 VERIFY IN
	IO	MDI 0818 ON	35.968	3518REG CONT BIT 3 VERIFY IN
	IO	MDI 0819 ON	35.968	3519REG CONT BIT 4 VERIFY IN
	IO	MDI 0821 ON	35.968	3521REG CONT BIT 6 VERIFY IN
	IO	MDI 0822 ON	35.968	3522REG CONT BIT 7 VERIFY IN
	IO	MDI 0823 ON	35.968	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2087 OFF	35.968	5163VXK0005-603
	IO	LDI 1091 OFF	35.976	0506BIT NO 2 VERIFY
S18	IO	MDI 2306 ON	35.976	3766IU STAGE SEL
S18	IO	MDI 2307 OFF	35.976	3767RESET COMMAND
S18		DDA 2086 ON	35.976	5162VXK0003-603
S18		DDA 2093 OFF	35.976	5166VXK0008-603
S18		DDA 2098 OFF	35.976	5171VXK0008-603
S18		DDA 2099 OFF	35.976	5172VXK0008-603
S18		DDA 2100 OFF	35.976	5173VXK0008-603
	IO	LDI 1090 OFF	35.980	0505BIT NO 1 VERIFY
	IO	LDI 1092 OFF	35.980	0507BIT NO 3 VERIFY
	IO	LDI 1093 OFF	35.980	0508BIT NO 4 VERIFY
	IO	LDI 1095 OFF	35.980	0510BIT NO 6 VERIFY
	IO	LDI 1096 OFF	35.980	0511BIT NO 7 VERIFY
	IO	LDI 1097 OFF	35.980	0512BIT NO 8 VERIFY
S18		DDA 2087 ON	35.980	5163VXK0005-603
S18		DDA 2094 OFF	35.980	5167VXK0008-603
S18		DDA 2095 OFF	35.980	5168VXK0008-603
	IO	LDI 1098 ON	35.984	0513IU STAGE SELECTOR
	IO	MDI 0818 OFF	35.984	3518REG CONT BIT 3 VERIFY IN
S18		DDA 2084 OFF	35.984	5160VXK0007-603
	IO	LDI 1103 OFF	35.988	0517RESET COMMAND
	IO	MDI 0782 OFF	35.988	3482SW SEL ZERO IND

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	IU	MDI 0817 OFF	35.988	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	35.988	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	35.988	3520REG CONT BIT 5 VERIFY IN
	IU	LDI 1091 ON	35.992	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	35.992	0509BIT NO 5 VERIFY
S1B		DDA 2086 OFF	35.992	5162VXK0003-603
S1B		DDA 2096 ON	35.992	5169VXK0008-603
S1B		DDA 2099 0	35.992	5172VXK0008-603
S1B		MDI 2187 ON	36.024	2596TCS PULSE OK
S1B	IU	MDI 2308 ON	36.092	3768READ COMMAND
S1B S4B	IU	-3- 355 READ	36.092	
	IU	LDI 0983 ON	36.100	0463SW SEL READ
	IU	LDI 1102 ON	36.100	0516SW SEL READ
		DDA 2149 ON	36.104	4134VK0004-603
S1B	IU	MDI 2306 OFF	36.132	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	36.132	3768READ COMMAND
	IU	LDI 0983 OFF	36.144	0463SW SEL READ
	IU	LDI 1098 OFF	36.144	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	36.144	0516SW SEL READ
	IU	MDI 0817 ON	36.144	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	36.144	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2085 OFF	36.144	5161VXK0006-603
S1B		DDA 2087 OFF	36.144	5163VXK0005-603
	IU	MDI 0782 ON	36.148	3482SW SEL ZERO IND
S1B		DDA 2149 OFF	36.148	4134VK0004-603
S1B		DDA 2086 ON	36.148	5162VXK0003-603
S1B		DDA 2099 OFF	36.148	5172VXK0008-603
	IU	LDI 1091 OFF	36.152	0506BIT NO 2 VERIFY
S1B		DDA 2096 OFF	36.152	5169VXK0008-603
	IU	LDI 1094 OFF	36.156	0509BIT NO 5 VERIFY
S1B		MDI 2187 OFF	36.652	2596TCS PULSE OK
S1B		MDI 2187 ON	37.024	2596TCS PULSE OK
S1B		MDI 2187 OFF	37.652	2596TCS PULSE OK
S1B		MDI 2187 ON	38.024	2596TCS PULSE OK
S1B		MDI 2187 OFF	38.652	2596TCS PULSE OK
S1B		MDI 2187 ON	39.024	2596TCS PULSE OK
S1B		MDI 2187 OFF	39.652	2596TCS PULSE OK
S1B		MDI 2187 ON	40.024	2596TCS PULSE OK
S1B		MDI 2187 OFF	40.652	2596TCS PULSE OK
S1B	IU	MDI 2306 ON	40.728	3766IU STAGE SEL
	IU	LDI 1098 ON	40.732	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	40.732	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	40.732	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	40.732	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2149 ON	40.732	4134VK0004-603

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	IU	MDI 0816	OFF	40.736	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0820	OFF	40.736	3521REG CONT BIT 2 VERIFY IN
	IU	MDI 0823	OFF	40.736	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090	ON	40.740	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	40.740	0506BIT NO 2 VERIFY
	IU	LDI 1097	ON	40.740	0512BIT NO 8 VERIFY
S1B		DDA 2086	OFF	40.740	5162VXK0003-603
S1B		DDA 2093	ON	40.740	5166VXK0008-603
S1B		DDA 2099	ON	40.740	5172VXK0008-603
S1B		DDA 2100	OFF	40.740	5173VXK0008-603
S1B	IU	MDI 2306	OFF	40.764	3766IU STAGE SEL
S1B	IU	MDI 2307	ON	40.764	3767RESET COMMAND
S1B S4B	IU	-3- 174	RESET	40.764	
	IU	LDI 1103	ON	40.772	0517RESET COMMAND
	IU	MDI 0782	ON	40.772	3482SW SEL ZERO IND
	IU	MDI 0816	ON	40.772	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	ON	40.772	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0823	ON	40.772	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084	ON	40.772	5160VXK0007-603
S1B		DDA 2086	ON	40.772	5162VXK0003-603
S1B		DDA 2099	OFF	40.772	5172VXK0008-603
	IU	LDI 1091	OFF	40.776	0506BIT NO 2 VERIFY
	IU	LDI 1097	OFF	40.776	0512BIT NO 8 VERIFY
	IU	LDI 1098	OFF	40.776	0513IU STAGE SELECTOR
S1B		DDA 2087	OFF	40.776	5163VXK0005-603
S1B		DDA 2093	OFF	40.776	5166VXK0008-603
S1B		DDA 2100	OFF	40.776	5173VXK0008-603
	IU	LDI 1090	OFF	40.780	0505BIT NO 1 VERIFY
S1B	IU	MDI 2306	ON	40.780	3766IU STAGE SEL
S1B	IU	MDI 2307	OFF	40.780	3767RESET COMMAND
S1B		DDA 2087	ON	40.788	5163VXK0005-603
	IU	LDI 1098	ON	40.792	0513IU STAGE SELECTOR
	IU	MDI 0782	OFF	40.792	3482SW SEL ZERO IND
	IU	MDI 0816	OFF	40.792	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	OFF	40.792	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	40.792	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822	OFF	40.792	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	40.792	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084	OFF	40.792	5160VXK0007-603
	IU	LDI 1103	OFF	40.796	0517RESET COMMAND
	IU	MDI 0816	ON	40.796	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819	OFF	40.796	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	40.796	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	OFF	40.796	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823	ON	40.796	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2094	ON	40.796	5167VXK0008-603

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S1B		DDA 2096 ON	40.796	5169VXK0008-603
S1B		DDA 2097 ON	40.796	5171VXK0008-603
S1B		DDA 2099 ON	40.796	5172VXK0008-603
	IU	LDI 1091 ON	40.800	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	40.800	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	40.800	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	40.800	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	40.800	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	40.800	0511BIT NO 7 VERIFY
S1B		DDA 2086 OFF	40.800	5162VXK0003-603
S1B		DDA 2095 ON	40.800	5168VXK0008-603
S1B	IU	MDI 2308 ON	40.876	3768READ COMMAND
S1B S4B	IU	-3- 201 READ	40.876	
	IU	MDI 0749 ON	40.880	3449SWITCH POINT 1 IND
	IU	MDI 0778 OFF	40.880	3478SWITCH POINT RESET IND
S1B		DDA 2085 ON	40.880	5161VXK0006-603
	IU	LDI 0983 ON	40.884	0463SW SEL READ
	IU	LDI 1102 ON	40.884	0516SW SEL READ
S1B		DDA 2149 ON	40.888	4134VK0004-603
S1B	IU	MDI 2306 OFF	40.908	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	40.908	3768READ COMMAND
	IU	LDI 0983 OFF	40.916	0463SW SEL READ
	IU	LDI 1098 OFF	40.916	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	40.916	0516SW SEL READ
S1B		DDA 2085 OFF	40.916	5161VXK0006-603
S1B		DDA 2087 OFF	40.916	5163VXK0005-603
	IU	MDI 0782 ON	40.920	3482SW SEL ZERO IND
	IU	MDI 0817 ON	40.920	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	40.920	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	40.920	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	40.920	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	40.920	3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1091 OFF	40.924	0506BIT NO 2 VERIFY
	IU	MDI 0821 ON	40.924	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2149 OFF	40.924	4134VK0004-603
S1B		DDA 2086 ON	40.924	5162VXK0003-603
S1B		DDA 2098 OFF	40.924	5171VXK0008-603
S1B		DDA 2099 OFF	40.924	5172VXK0008-603
	IU	LDI 1092 OFF	40.928	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	40.928	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	40.928	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	40.928	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	40.928	0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF	40.928	5167VXK0008-603
S1B		DDA 2095 OFF	40.928	5168VXK0008-603
S1B		DDA 2096 OFF	40.928	5169VXK0008-603

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S1B	IU	MDI 2306 ON	40.932	3766IU STAGE SEL
	IU	MDI 0817 OFF	40.936	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	40.936	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	40.936	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	40.936	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	40.936	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	40.936	3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1091 ON	40.940	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	40.940	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	40.940	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	40.940	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	40.940	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	40.940	0512BIT NO 8 VERIFY
	IU	LDI 1098 ON	40.940	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	40.940	3482SW SEL ZERO IND
	IU	MDI 0822 ON	40.940	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	40.940	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	40.940	5162VXK0003-603
S1B		DDA 2087 ON	40.940	5163VXK0005-603
S1B		DDA 2093 ON	40.940	5166VXK0008-603
S1B		DDA 2095 ON	40.940	5168VXK0008-603
S1B		DDA 2096 ON	40.940	5169VXK0008-603
S1B		DDA 2098 ON	40.940	5171VXK0008-603
S1B		DDA 2099 ON	40.940	5172VXK0008-603
	IU	LDO 0749 ON	40.976	4873SWITCH POINT 1 IND
	IU	LDO 0778 OFF	40.988	4902SWITCH POINT RESET IND
S1B		MDI 2187 ON	41.024	2596TCS PULSE OK
S1B	IU	MDI 2308 ON	41.080	3768READ COMMAND
S1B S4B	IU	-3- 101 READ	41.080	
	IU	MDI 0750 ON	41.084	3450SWITCH POINT 2 IND
S1B		DDA 2149 ON	41.088	4134VK0004-603
S1B		DDA 2085 ON	41.088	5161VXK0006-603
	IU	LDI 0983 ON	41.092	0463SW SEL READ
	IU	LDI 1102 ON	41.092	0516SW SEL READ
S1B	IU	MDI 2306 OFF	41.124	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	41.124	3768READ COMMAND
S1B		DDA 2085 OFF	41.132	5161VXK0006-603
S1B		DDA 2087 OFF	41.132	5163VXK0005-603
	IU	LDI 0983 OFF	41.136	0463SW SEL READ
	IU	LDI 1098 OFF	41.136	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	41.136	0516SW SEL READ
	IU	MDI 0782 ON	41.136	3482SW SEL ZERO IND
	IU	MDI 0817 ON	41.136	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	41.136	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	41.136	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	41.136	3520REG CONT BIT 5 VERIFY IN

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	IO	MDI 0821 ON 41.136 3521REG CONT BIT 6 VERIFY IN
	IO	MDI 0823 ON 41.136 3523REG CONT BIT 8 VERIFY IN
	IO	LDI 1091 OFF 41.140 0506BIT NO 2 VERIFY
S12		DDA 2149 OFF 41.140 4134VK0004-603
S13		DDA 2086 ON 41.140 5162VXK0003-603
S15		DDA 2099 OFF 41.140 5172VXK0008-603
	IO	LDI 1092 OFF 41.144 0507BIT NO 3 VERIFY
	IO	LDI 1093 OFF 41.144 0508BIT NO 4 VERIFY
	IO	LDI 1094 OFF 41.144 0509BIT NO 5 VERIFY
	IO	LDI 1097 OFF 41.144 0512BIT NO 6 VERIFY
S11		DDA 2093 OFF 41.144 5166VXK0008-603
S10		DDA 2095 OFF 41.144 5168VXK0008-603
S16		DDA 2096 OFF 41.144 5169VXK0008-603
S18		DDA 2098 OFF 41.144 5171VXK0008-603
	IO	LDI 1095 OFF 41.148 0510BIT NO 6 VERIFY
	IO	LDO 0750 ON 41.200 4874SWITCH POINT 2 IND
S12		MDI 2187 OFF 41.652 2596TCS PULSE OK
S17		MDI 2187 ON 42.024 2596TCS PULSE OK
S10		MDI 2187 OFF 42.652 2596TCS PULSE OK
S10		MDI 2187 ON 43.024 2596TCS PULSE OK
S12		MDI 2187 OFF 43.652 2596TCS PULSE OK
S10		MDI 2187 ON 44.024 2596TCS PULSE OK
S10		MDI 2187 OFF 44.652 2596TCS PULSE OK
S10		MDI 2187 ON 45.024 2596TCS PULSE OK
S16		MDI 2187 OFF 45.652 2596TCS PULSE OK
S12		MDI 2187 ON 46.024 2596TCS PULSE OK
S16		MDI 2187 OFF 46.652 2596TCS PULSE OK
S17		MDI 2187 ON 47.024 2596TCS PULSE OK
S12		MDI 2187 OFF 47.652 2596TCS PULSE OK
S12		MDI 2187 ON 48.024 2596TCS PULSE OK
S16		MDI 2187 OFF 48.652 2596TCS PULSE OK
S12		MDI 2187 ON 49.024 2596TCS PULSE OK
S16		MDI 2187 OFF 49.652 2596TCS PULSE OK
S12		MDI 2187 ON 50.024 2596TCS PULSE OK
S12		MDI 2187 OFF 50.652 2596TCS PULSE OK
	IO	MDO 0888 OFF 50.928 2080ENG 6 TOK 1
S12		MDI 0173 OFF 50.928 3462ENG NO. 6 THRUST RELAY 1
	IO	MDI 0762 OFF 50.928 3462ENG NO. 6 THRUST OK NO.1
S12		MDI 2074 OFF 50.936 3742ENG NO 6 THRUST OK IND
S10		DDA 1055 OFF 50.968 2534VK0148-006
S16		LDO 0173 OFF 50.996 4293COM ENG 6 THRUST RELAY 1
	IO	LDO 0762 OFF 51.004 4886ENG NO. 6 THRUST OK NO.1
S12		MDI 2187 ON 51.024 2596TCS PULSE OK
	IO	MDO 0885 OFF 51.108 2080ENG 6 TOK 3
S12		MDI 0181 OFF 51.108 3051COM ENG 6 THRUST RELAY 3
	IO	MDI 0775 OFF 51.108 3475ENG NO. 6 THRUST OK NO.3

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S1B		MDI 0375 ON	51.116	3195+1D21	ENG NO.6 CUTOFF
S1B		MDI 2628 ON	51.124	2670CONAX NO. 2	ENG NO. 6
S1B		MDI 2629 ON	51.124	2671CONAX NO. 1	ENG NO. 6
S1B		MDI 0023 OFF	51.128	2842ENG 6 FUEL PREV LV OPN IN	
S1B		MDI 0024 OFF	51.128	2843ENG 6 LOX PREV LV OPN IND	
S1B		MDI 2595 OFF	51.132	3879IGNITER ENG 6 SQUIB 2	
S1B		MDI 2596 OFF	51.132	3881IGNITER ENG 6 SQUIB 1	
S1B		MDI 0145 ON	51.136	3025ENG 6 HYPERGOL INST IND	
S1B		DDA 1025 OFF	51.168	2484VK0176-006	
S1B		DDD 4453 OFF	51.200	4453SPARE 12P 2003	
	IU	LDO 0775 OFF	51.208	4899ENG NO. 6 THRUST OK NO.3	
S1B		LDO 0367 ON	51.216	4271+1D11	ENG NO.6 CUTOFF
S1B		LDO 0375 ON	51.216	4279+1D21	ENG NO.6 CUTOFF
S1B		LDO 0023 OFF	51.260	4163ENG 6 FUEL PREV LV OPN IN	
S1B		LDO 0024 OFF	51.272	4164ENG 6 LOX PREV LV OPN IND	
S1B		LDO 0145 ON	51.280	4584ENG 6 HYPERGOL INST IND	
	IU	MDO 0898 OFF	51.408	2092ENG 7 TOK 2	
S1B		MDI 0190 OFF	51.412	3227COM ENG 7 THRUST RELAY 2	
	IU	MDI 0804 OFF	51.412	3504ENG NO. 7 THRUST OK NO.2	
S1B		MDI 2075 OFF	51.416	3743ENG NO 7 THRUST OK IND	
S1B		DDA 1046 OFF	51.460	2525VK0151-007	
S1B		LDO 0190 OFF	51.472	4783COM ENG 7 THRUST RELAY 2	
	IU	LDO 0804 OFF	51.480	4627ENG NO. 7 THRUST OK NO.2	
	IU	MDO 0893 OFF	51.640	2087ENG 7 TOK 3	
S1B		MDI 0182 OFF	51.640	3052COM ENG 7 THRUST RELAY 3	
	IU	MDI 0810 OFF	51.640	3510ENG NO. 7 THRUST OK NO.3	
S1B		MDI 0376 ON	51.648	3196+1D21	ENG NO.7 CUTOFF
S1B		MDI 2187 OFF	51.652	2596TCS PULSE OK	
S1B		MDI 2626 ON	51.660	2668CONAX NO. 2	ENG NO. 7
S1B		MDI 2627 ON	51.660	2669CONAX NO. 1	ENG NO. 7
S1B		MDI 0025 OFF	51.664	2844ENG 7 FUEL PREV LV OPN IN	
S1B		MDI 0026 OFF	51.664	2845ENG 7 LOX PREV LV OPN IND	
S1B		DDA 1024 OFF	51.668	2483VK0177-007	
S1B		MDI 2593 OFF	51.672	3877IGNITER ENG 7 SQUIB 2	
S1B		MDI 2594 OFF	51.672	3878IGNITER ENG 7 SQUIB 1	
S1B		MDI 0146 ON	51.676	3026ENG 7 HYPERGOL INST IND	
S1B		LDO 0182 OFF	51.704	4471COM ENG 7 THRUST RELAY 3	
	IU	LDO 0810 OFF	51.712	4633ENG NO. 7 THRUST OK NO.3	
S1B		LDO 0368 ON	51.724	4272+1D11	ENG NO.7 CUTOFF
S1B		LDO 0376 ON	51.724	4280+1D21	ENG NO.7 CUTOFF
S1B		LDO 0026 OFF	51.772	4166ENG 7 LOX PREV LV OPN IND	
S1B		LDO 0025 OFF	51.780	4165ENG 7 FUEL PREV LV OPN IN	
S1B		LDO 0146 ON	51.816	4585ENG 7 HYPERGOL INST IND	
S1B		LDI 0083 ON	51.932	0043LOX PREV LV 6 CLOSED IND	
S1B		DDA 1093 ON	51.932	4032VK0096-009	
S1B		MDI 2187 ON	52.024	2596TCS PULSE OK	

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S1B		LDI 0085 ON 52.432 0045LOX PREVLV 7 CLOSED IND
S1B		DDA 1092 ON 52.432 4031VK0097-009
S1B		MDI 2187 OFF 52.652 2596TCS PULSE OK
S1B		LDI 0082 ON 52.924 0042FUEL PREVLV 6 CLOSED IND
S1B		DDA 1081 ON 52.924 4020VK0088-009
	IU	MDI 0421 ON 52.928 1990ZERO CMD ON
	IU	MDI 0896 ON 52.932 3584ZERO CMD ON IND
S4B		LDO 0896 ON 52.984 4741ZERO CMD ON IND
S1B		MDI 2187 ON 53.020 2596TCS PULSE OK
S1B		LDI 0084 ON 53.516 0044FUEL PREVLV 7 CLOSED IND
S1B		DDA 1100 ON 53.516 4039VK0089-009
S1B		MDI 2187 OFF 53.652 2596TCS PULSE OK
	IU	MDI 0853 OFF 53.656 3546C.A.T OPERATE
	IU	MDO 0421 OFF 53.960 1990ZERO CMD ON
	IU	MDI 0896 OFF 53.964 3584ZERO CMD ON IND
S1B		MDI 2187 ON 54.020 2596TCS PULSE OK
S4B		LDO 0896 OFF 54.020 4741ZERO CMD ON IND
S1B		MDI 2187 OFF 54.652 2596TCS PULSE OK
	IU	MDO 1958 OFF 54.924 2419PITCH SELECT ON
	IU	MDI 0893 OFF 54.924 3581PITCH SELECT ON IND
	IU	LDO 0893 OFF 54.980 4678PITCH SELECT ON IND
S1B		MDI 2187 ON 55.020 2596TCS PULSE OK
S1B		MDI 2187 OFF 55.652 2596TCS PULSE OK
S1B		MDO 0707 ON 55.924 1514FUEL LEVEL SENS NO. 1
S1B		MDI 0388 ON 55.928 3203FUEL 1 LOX 2 SENSOR
S1B		MDI 2589 OFF 55.928 3872FUEL LEVEL SENS NO. 1
S1B		MDI 0388 OFF 55.932 3203FUEL 1 LOX 2 SENSOR
S1B		LDO 0388 ON 55.992 4288FUEL 1 LOX 2 SENSOR
S1B		DDA 1090 ON 56.004 4029VK0017-0F2
S1B		LDI 0120 ON 56.008 0071FUEL LEVEL CUTOFF IND N1
S1B		LDO 0388 OFF 56.008 4288FUEL 1 LOX 2 SENSOR
S1B		MDI 2187 ON 56.020 2596TCS PULSE OK
S1B		MDO 0855 OFF 56.136 1376ENGINE 3 TOK 1
S1B		MDI 0170 OFF 56.136 2690COM ENG 3 THRUST RELAY 1
	IU	MDI 0607 OFF 56.136 3307ENG NO 3 THRUST OK NO 1
S1B		MDI 2071 OFF 56.140 3739ENG NO 3 THRUST OK IND
S1B		DDA 1058 OFF 56.216 2537VK0142-003
S1B		LDO 0170 OFF 56.224 4290COM ENG 3 THRUST RELAY 1
	IU	LDO 0607 OFF 56.232 4374ENG NO 3 THRUST OK NO 1
S1B		MDO 0856 OFF 56.344 1377ENGINE 3 TOK 2
S1B		MDI 0186 OFF 56.344 3056COM ENG 3 THRUST RELAY 2
	IU	MDI 0608 OFF 56.344 3308ENG NO 3 THRUST OK NO 2
S1B		MDI 0372 ON 56.356 3192+1D21 ENG NO.3 CUTOFF
S1B		MDI 2634 ON 56.364 2676CONAX NO. 2 ENG NO. 3
S1B		MDI 2635 ON 56.364 2677CONAX NO. 1 ENG NO. 3
S1B		MDI 2598 OFF 56.368 2640IGNITER ENG 5 SQUIB 1

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S1B		MDI 2601 OFF 56.368 2643IGNITER ENG 3 SQUIB 2
S1B		MDI 2602 OFF 56.368 2644IGNITER ENG 3 SQUIB 1
S1B		MDI 2603 OFF 56.368 2645IGNITER ENG 2 SQUIB 2
S1B		MDI 2604 OFF 56.368 2646IGNITER ENG 2 SQUIB 1
S1B		MDI 2605 OFF 56.368 2647IGNITER ENG 1 SQUIB 2
S1B		MDI 2607 OFF 56.368 2649IGNITER ENG 1 SQUIB 1
S1B		MDI 0017 OFF 56.368 2836ENG 3 FUEL PREV LV OPN IN
S1B		MDI 0018 OFF 56.368 2837ENG 3 LOX PREV LV OPN IND
S1B		MDI 2597 OFF 56.368 4013IGNITER ENG 5 SQUIB 2
S1B		MDI 0140 ON 56.372 3020ENG 1 HYPERGOL INST IND
S1B		MDI 0141 ON 56.372 3021ENG 2 HYPERGOL INST IND
S1B		MDI 0142 ON 56.372 3022ENG 3 HYPERGOL INST IND
S1B		MDI 0144 ON 56.372 3024ENG 5 HYPERGOL INST IND
S1B		DDA 1050 OFF 56.376 2529VK0143-003
S1B		LDO 0186 OFF 56.436 4569COM ENG 3 THRUST RELAY 2
	IU	LDO 0608 OFF 56.444 4375ENG NO 3 THRUST OK NO 2
S1B		LDO 0364 ON 56.456 4268+1D11 ENG NO. 3 CUTOFF
S1B		LDO 0372 ON 56.456 4276+1D21 ENG NO.3 CUTOFF
S1B		LDO 0018 OFF 56.500 4158ENG 3 LOX PREV LV OPN IND
S1B		LDO 0017 OFF 56.512 4157ENG 3 FUEL PREV LV OPN IN
S1B		LDO 0140 ON 56.548 4579ENG 1 HYPERGOL INST IND
S1B		LDO 0141 ON 56.548 4580ENG 2 HYPERGOL INST IND
S1B		LDO 0142 ON 56.548 4581ENG 3 HYPERGOL INST IND
S1B		LDO 0144 ON 56.560 4583ENG 5 HYPERGOL INST IND
S1B		MDI 2187 OFF 56.652 2596TCS PULSE OK
S1B		MDI 2187 ON 57.020 2596TCS PULSE OK
S1B		DDA 1096 ON 57.096 4035VK0093-009
S1B		LDI 0077 ON 57.100 0037LOX PREV LV 3 CLOSED IND
S1B		MDI 2187 OFF 57.652 2596TCS PULSE OK
S1B		MDI 2187 ON 58.020 2596TCS PULSE OK
S1B		LDI 0076 ON 58.172 0036FUEL PREV LV 3 CLOSED IND
S1B		DDA 1084 ON 58.172 4023VK0085-009
S1B		MDI 2187 OFF 58.652 2596TCS PULSE OK
S1B		MDI 2187 ON 59.020 2596TCS PULSE OK
S1B		MDI 2187 OFF 59.652 2596TCS PULSE OK
S1B S4B	IU	CDC 00 02
S1B		MDI 2187 ON 00.020 2596TCS PULSE OK
S1B	IU	MDI 2304 ON 00.552 3764S-1B STAGE SEL
	IU	MDI 0817 OFF 00.556 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 00.556 3518REG CONT BIT 3 VERIFY IN
S1B		MDI 2065 OFF 00.556 3734SWITCH SELECTOR ZERO IND
	IU	MDI 0818 ON 00.560 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF 00.560 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 00.560 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2090 ON 00.560 5165VXK0005-603
S1B		DDA 2093 ON 00.560 5166VXK0008-603

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S1B		DDA 2099 ON	00.560	5172VXK0008-603
	IU	LDI 1091 ON	00.564	0506BIT NO 2 VERIFY
	IU	LDI 1095 ON	00.564	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	00.564	0512BIT NO 8 VERIFY
	IU	LDI 1101 ON	00.564	0515S-IB STAGE SELECTOR
S1B		DDA 2099 ON	00.564	5172VXK0008-603
S1B	IU	MDI 2304 OFF	00.600	3764S-IB STAGE SEL
S1B	IU	MDI 2307 ON	00.600	3767RESET COMMAND
S1B S4B	IU	-1- 135 RESET	00.600	
	IU	MDI 0817 ON	00.608	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0823 ON	00.608	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 ON	00.608	3734SWITCH SELECTOR ZERO IND
	IU	LDI 1091 OFF	00.612	0506BIT NO 2 VERIFY
	IU	LDI 1103 ON	00.612	0517RESET COMMAND
	IU	MDI 0821 ON	00.612	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2084 ON	00.612	5160VXK0007-603
S1B		DDA 2099 OFF	00.612	5172VXK0008-603
	IU	LDI 1097 OFF	00.616	0512BIT NO 8 VERIFY
	IU	LDI 1101 OFF	00.616	0515S-IB STAGE SELECTOR
S1B		DDA 2090 OFF	00.616	5165VXK0005-603
S1B		DDA 2093 OFF	00.616	5166VXK0008-603
S1B		DDA 2095 OFF	00.616	5168VXK0008-603
	IU	LDI 1095 OFF	00.620	0510BIT NO 6 VERIFY
S1B	IU	MDI 2304 ON	00.632	3764S-IB STAGE SEL
S1B	IU	MDI 2307 OFF	00.632	3767RESET COMMAND
	IU	LDI 1101 ON	00.636	0515S-IB STAGE SELECTOR
S1B		DDA 2090 ON	00.636	5165VXK0005-603
	IU	LDI 1103 OFF	00.640	0517RESET COMMAND
S1B		DDA 2084 OFF	00.640	5160VXK0007-603
	IU	LDI 1090 ON	00.644	0505BIT NO 1 VERIFY
	IU	LDI 1092 ON	00.644	0507BIT NO 3 VERIFY
	IU	LDI 1095 ON	00.644	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	00.644	0512BIT NO 8 VERIFY
	IU	MDI 0816 OFF	00.644	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	00.644	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	00.644	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	00.644	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	00.644	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	00.644	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	00.644	3522REG CONT BIT 7 VERIFY IN
S1B		MDI 2065 OFF	00.644	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2093 ON	00.644	5165VXK0005-603
S1B		DDA 2094 ON	00.644	5167VXK0008-603
S1B		DDA 2095 ON	00.644	5168VXK0008-603
S1B		DDA 2098 ON	00.644	5171VXK0008-603
S1B		DDA 2099 ON	00.644	5172VXK0008-603

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S1B		DDA 2100 ON	00.644	5173VXK0008-603
	IU	LDI 1091 ON	00.648	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	00.648	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	00.648	0510BIT NO 6 VERIFY
	IU	MDI 0821 ON	00.648	3521REG CONT BIT 6 VERIFY IN
S1B		MDI 2187 OFF	00.652	2596TCS PULSE OK
S1B		DDA 2096 ON	00.652	5169VXK0008-603
	IU	LDI 1094 ON	00.656	0509BIT NO 5 VERIFY
S1B		DDA 2093 OFF	00.656	5166VXK0008-603
	IU	LDI 1095 OFF	00.660	0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF	00.660	0512BIT NO 8 VERIFY
S1B		DDA 2095 OFF	00.660	5168VXK0008-603
S1B	IU	MDI 2308 ON	00.676	3768READ COMMAND
S1B S4B	IU	-1- 240 READ	00.676	
S1B		DDA 1109 ON	00.680	4048VK0001-012
	IU	LDI 0983 ON	00.688	0463SW SEL READ
	IU	LDI 1102 ON	00.688	0516SW SEL READ
S1B		DDA 2085 ON	00.688	5161VXK0006-603
S1B	IU	MDI 2304 OFF	00.708	3764S-1B STAGE SEL
S1B	IU	MDI 2308 OFF	00.708	3768READ COMMAND
	IU	LDI 1101 OFF	00.716	0515S-1B STAGE SELECTOR
S1B		DDA 2090 OFF	00.716	5165VXK0005-603
	IU	MDI 0816 ON	00.720	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	00.720	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	00.720	3518REG CONT BIT 3 VERIFY IN
S1B		DDA 2085 OFF	00.720	5161VXK0006-603
	IU	LDI 0983 OFF	00.724	0463SW SEL READ
	IU	LDI 1102 OFF	00.724	0516SW SEL READ
	IU	MDI 0819 ON	00.724	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	00.724	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	00.724	3522REG CONT BIT 7 VERIFY IN
S1B		MDI 2065 ON	00.724	3734SWITCH SELECTOR ZERO IND
S1B		DDA 1109 OFF	00.724	4048VK0001-012
S1B		DDA 2099 OFF	00.728	5172VXK0008-603
	IU	LDI 1090 OFF	00.732	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	00.732	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	00.732	0507BIT NO 3 VERIFY
S1B	IU	MDI 2306 ON	00.732	3766IU STAGE SEL
S1B		DDA 2094 OFF	00.732	5167VXK0008-603
S1B		DDA 2096 OFF	00.732	5169VXK0008-603
S1B		DDA 2098 OFF	00.732	5171VXK0008-603
S1B		DDA 2100 OFF	00.732	5173VXK0008-603
	IU	LDI 1093 OFF	00.736	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	00.736	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	00.736	0511BIT NO 7 VERIFY
	IU	LDI 1098 ON	00.736	0513IU STAGE SELECTOR

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	IU	MDI 0782 OFF 00.736 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 00.736 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 00.736 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 00.736 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 00.736 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 00.736 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 00.736 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 ON 00.736 5163VXK0005-603
	IU	MDI 0820 ON 00.740 3520REG CONT BIT 5 VERIFY IN
	IU	LDI 1091 ON 00.744 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 00.744 0507BIT NO 3 VERIFY
	IU	LDI 1097 ON 00.744 0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF 00.744 5162VXK0003-603
S1B		DDA 2093 ON 00.744 5166VXK0008-603
S1B		DDA 2095 ON 00.744 5168VXK0008-603
S1B		DDA 2098 ON 00.744 5171VXK0008-603
S1B		DDA 2099 ON 00.744 5172VXK0008-603
	IU	LDI 1093 ON 00.748 0508BIT NO 4 VERIFY
	IU	LDI 1095 ON 00.748 0510BIT NO 6 VERIFY
S1B	IU	MDI 2308 ON 00.896 3768READ COMMAND
S1B S4B	IU	-3- 121 READ 00.896
	IU	MDI 0751 ON 00.900 3451SWITCH POINT 3 IND
S1B		DDA 2149 ON 00.900 4134VK0004-603
	IU	LDI 0983 ON 00.904 0463SW SEL READ
	IU	LDI 1102 ON 00.904 0516SW SEL READ
S1B		DDA 2085 ON 00.904 5161VXK0006-603
S1B	IU	MDI 2306 OFF 00.932 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 00.932 3768READ COMMAND
	IU	LDI 1098 OFF 00.940 0513IU STAGE SELECTOR
S1B		DDA 2087 OFF 00.940 5163VXK0005-603
	IU	LDI 0983 OFF 00.948 0463SW SEL READ
	IU	LDI 1102 OFF 00.948 0516SW SEL READ
	IU	MDI 0782 ON 00.948 3482SW SEL ZERO IND
	IU	MDI 0817 ON 00.948 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 00.948 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 00.948 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON 00.948 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON 00.948 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF 00.948 5161VXK0006-603
S1B		DDA 2093 ON 00.956 5166VXK0008-603
	IU	LDI 1091 OFF 00.956 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 00.956 0507BIT NO 3 VERIFY
S1B	IU	MDI 2306 ON 00.956 3766IU STAGE SEL
S1B		DDA 2149 OFF 00.956 4134VK0004-603
S1B		DDA 2093 OFF 00.956 5166VXK0008-603
S1B		DDA 2098 OFF 00.956 5171VXK0008-603

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TEST S14 FLT MAL CAT 70 73 11

S14		DDA 2099 OFF 00.956 5172VXK0008-603
	IU	LDI 1093 OFF 00.960 0510BIT NO 2 VERIFY
	IU	LDI 1095 OFF 00.960 0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF 00.960 0512BIT NO 8 VERIFY
	IU	MDI 0818 OFF 00.960 3518REG CONT BIT 3 VERIFY IN
S1B		DDA 2087 ON 00.960 5163VXK0005-603
S1B		DDA 2095 OFF 00.960 5168VXK0008-603
	IU	LDI 1098 ON 00.964 0513IU STAGE SELECTOR
	IU	MDI 0782 OFF 00.964 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 00.964 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 00.964 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 00.964 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF 00.964 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON 00.968 5166VXK0008-603
S1B		DDA 2099 ON 00.968 5172VXK0008-603
	IU	LDI 1091 ON 00.972 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 00.972 0508BIT NO 4 VERIFY
	IU	LDI 1097 ON 00.972 0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF 00.972 5162VXK0003-603
	IU	LDO 0751 ON 00.992 4875SWITCH POINT 3 IND
S1B		MDI 2187 ON 01.020 2596TCS PULSE OK
S1B	IU	MDI 2308 ON 01.076 3768READ COMMAND
S1B S4B	IU	-3- 165 READ 01.076
	IU	LDI 0983 ON 01.080 0463SW SEL READ
	IU	LDI 1102 ON 01.080 0516SW SEL READ
S1B		DDA 2085 ON 01.080 5161VXK0006-603
S1B		DDA 2149 ON 01.084 4134VXK0004-603
	IU	MDI 0783 ON 01.088 3483STAGE LOGIC ZERO IND
S1B	IU	MDI 2306 OFF 01.108 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 01.108 3768READ COMMAND
S1B		DDA 2085 OFF 01.112 5161VXK0006-603
S1B		DDA 2087 OFF 01.112 5163VXK0005-603
	IU	LDI 0983 OFF 01.116 0463SW SEL READ
	IU	LDI 1098 OFF 01.116 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 01.116 0516SW SEL READ
	IU	MDI 0782 ON 01.120 3482SW SEL ZERO IND
	IU	MDI 0817 ON 01.120 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 01.120 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON 01.120 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2149 OFF 01.124 4134VXK0004-603
S1B		DDA 2086 ON 01.120 5162VXK0003-603
S1B		DDA 2099 OFF 01.120 5172VXK0008-603
	IU	LDI 1091 OFF 01.124 0506BIT NO 2 VERIFY
	IU	LDI 1093 OFF 01.124 0508BIT NO 4 VERIFY
	IU	LDI 1097 OFF 01.124 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 01.124 5166VXK0008-603

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	IU	LDO 0783 ON 01.148 4907STAGE LOGIC ZERO IND
S1B		DDA 2069 OFF 01.164 4103VK0032-601
S1B		MDO 0708 ON 01.288 1515FUEL LEVEL SENS NO. 2
S1B		MDI 2588 OFF 01.288 3871FUEL LEVEL SENS NO. 2
S1B		MDI 0389 ON 01.292 3204FUEL 2 LOX 3 SENSOR
S1B		MDI 0389 OFF 01.296 3204FUEL 2 LOX 3 SENSOR
S1B		LDI 0121 ON 01.340 0072FUEL LEVEL CUTOFF IND N2
S1B		DDA 1089 ON 01.340 4028VK0018-0F4
S1B		LDO 0389 ON 01.424 4289FUEL 2 LOX 3 SENSOR
S1B		LDO 0389 OFF 01.436 4289FUEL 2 LOX 3 SENSOR
S1B		MDI 2187 OFF 01.652 2596TCS PULSE OK
S1B		MDI 2187 ON 02.020 2596TCS PULSE OK
S1B		DDA 1109 ON 02.332 4048VK0001-012
S1B		DDA 1109 OFF 02.416 4048VK0001-012
S1B		DDA 1110 ON 02.416 4049VK0001-012
S1B		DDA 1109 ON 02.580 4048VK0001-012
S1B		MDI 2187 OFF 02.652 2596TCS PULSE OK
S1B		DDA 1109 OFF 02.664 4048VK0001-012
S1B		DDA 1110 OFF 02.664 4049VK0001-012
	IU	MDI 0635 ON 02.984 3335EDSRG ZERO TORQUE COMM
S1B		MDI 2187 ON 03.020 2596TCS PULSE OK
S1B		MDI 2187 OFF 03.652 2596TCS PULSE OK
	IU	MDI 2236 ON 03.988 2605RAMP NO 1 ZERO
	IU	MDI 2238 ON 03.988 2607RAMP NO 3 ZERO
	IU	MDI 2237 ON 03.992 2606RAMP NO 2 ZERO
	IU	MDI 0635 OFF 03.992 3335EDSRG ZERO TORQUE COMM
S1B		MDI 2187 ON 04.020 2596TCS PULSE OK
S1B		DDA 2124 ON 04.136 4118VR0030-602
S1B		MDI 2187 OFF 04.652 2596TCS PULSE OK
	IU	MDO 1906 OFF 04.992 1603EDS RG PITCH AXIS SEL ON
	IU	MDI 0631 OFF 04.992 3331EDSRG PITCH AXIS SELECT
S1B		MDI 2187 ON 05.020 2596TCS PULSE OK
	IU	LDO 0631 OFF 05.036 4398EDSRG PITCH AXIS SELECT
S1B	IU	MDI 2304 ON 05.528 3764S-1B STAGE SEL
	IU	LDI 1101 ON 05.536 0515S-1B STAGE SELECTOR
	IU	MDI 0817 OFF 05.536 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF 05.536 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 05.536 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 05.536 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 05.536 3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 OFF 05.536 3734SWITCH SELECTOR ZERO IND
S1B		DDA 2090 ON 05.536 5165VXK0005-603
	IU	LDI 1091 ON 05.544 0506BIT NO 2 VERIFY
	IU	LDI 1094 ON 05.544 0509BIT NO 5 VERIFY
	IU	LDI 1096 ON 05.544 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 05.544 0512BIT NO 8 VERIFY

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S18		DDA 2093 ON	05.544	5166VXK0008-603
S18		DDA 2094 ON	05.544	5167VXK0008-603
S18		DDA 2095 ON	05.544	5168VXK0008-603
S18		DDA 2096 ON	05.544	5169VXK0008-603
S18		DDA 2099 ON	05.544	5172VXK0008-603
	IU	LDI 1095 ON	05.548	0510BIT NO 6 VERIFY
S18	IU	MDI 2304 OFF	05.568	3764S-1B STAGE SEL
S18	IU	MDI 2307 ON	05.568	3767RESET COMMAND
S18 S4B	IU	-1- 015 RESET	05.568	
	IU	MDI 0817 ON	05.572	3517REG CONT BIT 2 VERIFY IN
S18		MDI 2065 ON	05.572	3734SWITCH SELECTOR ZERO IND
	IU	MDI 0820 ON	05.576	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	05.576	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	05.576	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	05.576	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2084 ON	05.576	5160VXK0007-603
	IU	LDI 1091 OFF	05.580	0506BIT NO 2 VERIFY
	IU	LDI 1103 ON	05.580	0517RESET COMMAND
S18	IU	MDI 2304 ON	05.580	3764S-1B STAGE SEL
S18	IU	MDI 2307 OFF	05.580	3767RESET COMMAND
S18		DDA 2090 OFF	05.580	5165VXK0005-603
S18		DDA 2093 OFF	05.580	5166VXK0008-603
S18		DDA 2096 OFF	05.580	5169VXK0008-603
S18		DDA 2099 OFF	05.580	5172VXK0008-603
	IU	LDI 1094 OFF	05.584	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	05.584	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	05.584	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	05.584	0512BIT NO 8 VERIFY
S18		DDA 2090 ON	05.584	5165VXK0005-603
S18		DDA 2094 OFF	05.584	5167VXK0008-603
S18		DDA 2095 OFF	05.584	5168VXK0008-603
S18		DDA 2084 OFF	05.588	5160VXK0007-603
	IU	LDI 1103 OFF	05.592	0517RESET COMMAND
	IU	MDI 0817 OFF	05.592	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	05.592	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	05.592	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	05.592	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	05.592	3523REG CONT BIT 8 VERIFY IN
S18		MDI 2065 OFF	05.592	3734SWITCH SELECTOR ZERO IND
S18		DDA 2093 ON	05.592	5166VXK0008-603
S18		DDA 2094 ON	05.592	5167VXK0008-603
S18		DDA 2096 ON	05.592	5169VXK0008-603
S18		DDA 2099 ON	05.592	5172VXK0008-603
	IU	LDI 1091 ON	05.596	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	05.596	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	05.596	0510BIT NO 6 VERIFY

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	IU	LDI 1096 ON	05.596	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	05.596	0512BIT NO 8 VERIFY
	IU	MDI 0816 OFF	05.596	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF	05.596	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	05.596	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	05.596	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	05.596	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	05.596	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	05.596	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2095 ON	05.596	5168VXK0008-603
	IU	LDI 1090 ON	05.604	0505BIT NO 1 VERIFY
	IU	LDI 1092 ON	05.604	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	05.604	0508BIT NO 4 VERIFY
S1B		DDA 2096 ON	05.604	5171VXK0008-603
S1B		DDA 2100 ON	05.604	5173VXK0008-603
	IU	LDI 1094 OFF	05.608	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	05.608	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	05.608	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	05.608	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	05.608	5166VXK0008-603
S1B		DDA 2094 OFF	05.608	5167VXK0008-603
S1B		DDA 2095 OFF	05.608	5168VXK0008-603
S1B		DDA 2096 OFF	05.608	5169VXK0008-603
S1B		MDI 2187 OFF	05.652	2596TCS PULSE OK
S1B	IU	MDI 2308 ON	05.676	3768READ COMMAND
S1B S4B	IU	-1- 360 READ	05.676	
S1B		DDA 2085 ON	05.676	5161VXK0006-603
	IU	LDI 0983 ON	05.680	0463SW SEL READ
	IU	LDI 1102 ON	05.680	0516SW SEL READ
S1B		DDA 1109 ON	05.680	4048VK0001-012
S1B	IU	MDI 2304 OFF	05.704	3764S-1B STAGE SEL
S1B	IU	MDI 2308 OFF	05.704	3768READ COMMAND
	IU	LDI 0983 OFF	05.712	0463SW SEL READ
	IU	LDI 1102 OFF	05.712	0516SW SEL READ
S1B		DDA 2085 OFF	05.712	5161VXK0006-603
S1B		DDA 2090 OFF	05.712	5165VXK0005-603
	IU	LDI 1101 OFF	05.716	0515S-1B STAGE SELECTOR
	IU	LDI 1091 OFF	05.720	0506BIT NO 2 VERIFY
	IU	MDI 0816 ON	05.720	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	05.720	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	05.720	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	05.720	3519REG CONT BIT 4 VERIFY IN
S1B		MDI 2065 ON	05.720	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2098 OFF	05.720	5171VXK0008-603
S1B		DDA 2099 OFF	05.720	5172VXK0008-603
	IU	LDI 1090 OFF	05.724	0505BIT NO 1 VERIFY

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	IU	LDI 1092	OFF	05.724	0507BIT NO 3 VERIFY
	IU	LDI 1093	OFF	05.724	0508BIT NO 4 VERIFY
S1B		DDA 1109	OFF	05.724	4048VK0001-012
S1B		DDA 2100	OFF	05.724	5173VXK0008-603
S1B		MDI 0710	ON	05.924	1517LOX LEVEL SENS NO. 3
S1B		MDI 0388	ON	05.928	3204FUEL 2 LOX 3 SENSOR
S1B		MDI 2586	OFF	05.928	3869LOX LEVEL SENS NO. 3
S1B		MDI 0389	OFF	05.932	3204FUEL 2 LOX 3 SENSOR
S1B		LDI 0124	ON	05.948	0074LOX LEVEL CUTOFF IND NO3
S1B		DDA 1032	ON	05.948	2491VXK0010-004
S1B		MDI 2187	ON	06.020	2596TCS PULSE OK
S1B		LDO 0389	ON	06.024	4289FUEL 2 LOX 3 SENSOR
S1B		LDO 0389	OFF	06.040	4289FUEL 2 LOX 3 SENSOR
S1B		MDI 2187	OFF	06.652	2596TCS PULSE OK
S1B	IU	MDI 2305	ON	06.828	3765S-IVB STAGE SEL
	IU	MDI 0817	OFF	06.832	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819	OFF	06.832	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	OFF	06.832	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	06.832	3522REG CONT BIT 7 VERIFY IN
S4B		MDI 1844	OFF	06.832	3928SW SEL ZERO
	IU	LDI 1090	ON	06.836	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	06.836	0506BIT NO 2 VERIFY
	IU	LDI 1092	ON	06.836	0507BIT NO 3 VERIFY
	IU	LDI 1093	ON	06.836	0508BIT NO 4 VERIFY
	IU	LDI 1094	ON	06.836	0509BIT NO 5 VERIFY
	IU	LDI 1095	ON	06.836	0510BIT NO 6 VERIFY
	IU	LDI 1096	ON	06.836	0511BIT NO 7 VERIFY
	IU	LDI 1097	ON	06.836	0512BIT NO 8 VERIFY
	IU	LDI 1099	ON	06.836	0514S-IVB STAGE SELECTOR
	IU	MDI 0816	OFF	06.836	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818	OFF	06.836	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	06.836	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	06.836	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822	ON	06.836	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	06.836	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088	ON	06.836	5164VXK0005-603
S1B		DDA 2093	ON	06.836	5166VXK0008-603
S1B		DDA 2094	ON	06.836	5167VXK0008-603
S1B		DDA 2095	ON	06.836	5168VXK0008-603
S1B		DDA 2096	ON	06.836	5169VXK0008-603
S1B		DDA 2098	ON	06.836	5171VXK0008-603
S1B		DDA 2100	ON	06.836	5173VXK0008-603
	IU	LDI 1093	OFF	06.848	0508BIT NO 4 VERIFY
S1B		DDA 2094	OFF	06.848	5167VXK0008-603
	IU	LDI 1099	OFF	06.852	0514BIT NO 7 VERIFY

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S1B	IU	MDI 2305 OFF	06.868	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	06.868	3767RESET COMMAND
S1B S4B	IU	-2- 110 RESET	06.868	
S4B		MDI 1844 ON	06.872	3928SW SEL ZERO
	IU	MDI 0816 ON	06.876	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	06.876	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	06.876	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON	06.876	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	06.876	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	06.876	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	06.876	5160VXK0007-603
	IU	LDI 1091 OFF	06.880	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	06.880	0507BIT NO 3 VERIFY
	IU	LDI 1099 OFF	06.880	0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON	06.880	0517RESET COMMAND
S1B		DDA 2088 OFF	06.880	5164VXK0005-603
S1B		DDA 2093 OFF	06.880	5166VXK0008-603
S1B		DDA 2096 OFF	06.880	5169VXK0008-603
S1B		DDA 2098 OFF	06.880	5171VXK0008-603
S1B		DDA 2099 OFF	06.880	5172VXK0008-603
S1B		DDA 2100 OFF	06.880	5173VXK0008-603
	IU	LDI 1090 OFF	06.884	0505BIT NO 1 VERIFY
	IU	LDI 1094 OFF	06.884	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	06.884	0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF	06.884	0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON	06.884	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	06.884	3767RESET COMMAND
S1B		DDA 2095 OFF	06.884	5168VXK0008-603
S4B		MDI 1844 OFF	06.892	3928SW SEL ZERO
S1B		DDA 2088 ON	06.892	5164VXK0005-603
	IU	LDI 1099 ON	06.896	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	06.896	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	06.896	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	06.896	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	06.896	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	06.896	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	06.896	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	06.896	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF	06.896	5160VXK0007-603
	IU	LDI 1103 OFF	06.900	0517RESET COMMAND
	IU	MDI 0816 ON	06.900	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	06.900	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	06.900	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	06.900	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	06.900	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	06.900	3523REG CONT BIT 8 VERIFY IN

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S1B		DDA 2094 ON	06.900	5167VXK0008-603
	IU	LDI 1091 ON	06.904	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	06.904	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	06.904	0511BIT NO 7 VERIFY
S1B		DDA 2099 ON	06.904	5172VXK0008-603
	S4B	LDO 1844 OFF	06.912	4535SW SEL ZERO
	S4B	LDO 1844 ON	06.972	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	06.976	3768READ COMMAND
S1B	S4B	IU	-2-	265 READ 06.976
S1B		DDA 2085 ON	06.984	5161VXK0006-603
	IU	LDI 0983 ON	06.988	0463SW SEL READ
	IU	LDI 1102 ON	06.988	0516SW SEL READ
S1B		DDA 2029 ON	06.988	4080VK0128-404
S1B		DDA 2029 OFF	07.000	4080VK0128-404
	S4B	LDI 0941 ON	07.004	0447SW SEL OUTPUT FAILURE
S1B	IU	MDI 2308 OFF	07.008	3768READ COMMAND
S1B	IU	MDI 1844 ON	07.016	3928SW SEL ZERO
	S4B	LDI 1091 OFF	07.020	0506BIT NO 2 VERIFY
S1B		MDI 2187 ON	07.020	2596TCS PULSE OK
	IU	MDI 0817 ON	07.020	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	07.020	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	07.020	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2088 OFF	07.020	5164VXK0005-603
S1B		DDA 2099 OFF	07.020	5172VXK0008-603
	IU	LDI 0983 OFF	07.024	0463SW SEL READ
	IU	LDI 1093 OFF	07.024	0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF	07.024	0511BIT NO 7 VERIFY
	IU	LDI 1099 OFF	07.024	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	07.024	0516SW SEL READ
S1B		DDA 2094 OFF	07.024	5167VXK0008-603
	S4B	LDO 1844 OFF	07.076	4535SW SEL ZERO
S1B		DDA 2029 ON	07.080	4080VK0128-404
	S4B	LDO 1844 ON	07.140	4535SW SEL ZERO
S1B		DDA 2030 ON	07.164	4081VK0128-404
S1B		DDA 2029 OFF	07.168	4080VK0128-404
S1B		DDA 2029 ON	07.172	4080VK0128-404
S1B		DDA 2030 OFF	07.176	4081VK0128-404
S1B		DDA 2029 ON	07.180	4081VK0128-404
S1B		DDA 2029 OFF	07.184	4080VK0128-404
S1B		DDA 2029 ON	07.196	4080VK0128-404
S1B		DDA 2030 OFF	07.204	4081VK0128-404
S1B		DDA 2030 ON	07.212	4081VK0128-404
S1B		DDA 2029 OFF	07.220	4080VK0128-404
S1B		DDA 2029 ON	07.232	4080VK0128-404

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S1B		DDA 2029 OFF 07.244 4080VK0128-404
S1B		DDA 2029 ON 07.332 4080VK0128-404
S1B		DDA 2029 OFF 07.420 4080VK0128-404
S1B		DDA 2030 OFF 07.420 4081VK0128-404
S1B		MDI 2187 OFF 07.648 2595TCS PULSE OK
S1B	IU	MDI 2305 ON 07.824 3765S-IVR STAGE SEL
S4B		MDI 1844 OFF 07.828 3928SW SEL ZERO
	IU	MDI 0817 OFF 07.832 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 07.832 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 07.832 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 07.832 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 07.832 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 07.832 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON 07.836 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 07.836 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 07.836 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 07.836 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 07.836 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 07.836 0512BIT NO 8 VERIFY
	IU	LDI 1099 ON 07.836 0514S-IVR STAGE SELECTOR
S1B		DDA 2088 ON 07.836 5164VXK0005-603
S1B		DDA 2093 ON 07.836 5166VXK0008-603
S1B		DDA 2094 ON 07.836 5167VXK0008-603
S1B		DDA 2095 ON 07.836 5168VXK0008-603
S1B		DDA 2096 ON 07.836 5169VXK0008-603
S1B		DDA 2099 ON 07.836 5172VXK0008-603
S1B	IU	MDI 2305 OFF 07.856 3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON 07.856 3767RESET COMMAND
S1B S4B	IU	-2- 005 RESET 07.856
	IU	LDI 1103 ON 07.860 0517RESET COMMAND
S4B		MDI 1844 ON 07.860 3928SW SEL ZERO
S1B		DDA 2084 ON 07.860 5160VXK0007-603
	IU	LDI 1099 OFF 07.864 0514S-IVR STAGE SELECTOR
	IU	MDI 0817 ON 07.864 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 07.864 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 07.864 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 07.864 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 07.864 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 07.864 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF 07.864 5164VXK0005-603
	IU	LDI 1091 OFF 07.872 0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF 07.872 0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON 07.872 3765S-IVR STAGE SEL
S1B	IU	MDI 2307 OFF 07.872 3767RESET COMMAND
S1B		DDA 2093 OFF 07.872 5166VXK0008-603
S1B		DDA 2094 OFF 07.872 5167VXK0008-603

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S10		DDA 2096	OFF	07.872	5169VXK0008-603
S10		DDA 2099	OFF	07.872	5172VXK0008-603
	10	LDI 1093	OFF	07.876	0508BIT NO 4 VERIFY
	10	LDI 1094	OFF	07.876	0509BIT NO 5 VERIFY
	10	LDI 1095	OFF	07.876	0510BIT NO 6 VERIFY
	10	LDI 1096	OFF	07.876	0511BIT NO 7 VERIFY
	10	LDI 1099	ON	07.876	0514S-IVB STAGE SELECTOR
S10		DDA 2098	ON	07.876	5164VXK0005-603
S10		DDA 2097	OFF	07.876	5168VXK0008-603
	10	LDI 1103	OFF	07.880	0517RESET COMMAND
S10		DDA 2084	OFF	07.880	5160VXK0007-603
	10	MDI 0817	OFF	07.884	3517REG CONT BIT 2 VERIFY IN
	10	MDI 0819	OFF	07.884	3519REG CONT BIT 4 VERIFY IN
	10	MDI 0821	OFF	07.884	3521REG CONT BIT 6 VERIFY IN
	10	MDI 0822	OFF	07.884	3522REG CONT BIT 7 VERIFY IN
	10	MDI 0823	OFF	07.884	3523REG CONT BIT 8 VERIFY IN
S40		MDI 1844	OFF	07.884	3928SW SEL ZERO
	10	MDI 0816	OFF	07.888	3516REG CONT BIT 1 VERIFY IN
	10	MDI 0818	OFF	07.888	3518REG CONT BIT 3 VERIFY IN
	10	MDI 0819	ON	07.888	3519REG CONT BIT 4 VERIFY IN
	10	MDI 0821	ON	07.888	3521REG CONT BIT 6 VERIFY IN
	10	MDI 0822	ON	07.888	3522REG CONT BIT 7 VERIFY IN
	10	MDI 0823	ON	07.888	3523REG CONT BIT 8 VERIFY IN
S10		DDA 2098	ON	07.892	5171VXK0008-603
S10		DDA 2099	ON	07.892	5172VXK0008-603
S10		DDA 2100	ON	07.892	5173VXK0008-603
	10	LDI 1090	ON	07.896	0505BIT NO 1 VERIFY
	10	LDI 1091	ON	07.896	0506BIT NO 2 VERIFY
	10	LDI 1092	ON	07.896	0507BIT NO 3 VERIFY
S40		LDO 1844	OFF	07.912	4535SW SEL ZERO
S40		LDO 1844	ON	07.964	4535SW SEL ZERO
S10	10	MDI 2308	ON	07.988	3768READ COMMAND
S10	S40	-2- 370	READ	07.988	
S10		DDA 2085	OFF	07.992	5161VXK0006-603
	10	LDI 0983	OFF	07.996	0463SW SEL READ
	10	LDI 1102	ON	07.996	0516SW SEL READ
S10		DDA 2029	ON	07.996	4080VK0128-404
S10		MDI 2187	ON	08.020	2596TCS PULSE OK
S10	10	MDI 2305	OFF	08.028	3765S-IVB STAGE SEL
S10	10	MDI 2301	OFF	08.028	3768READ COMMAND
S10		DDA 2085	OFF	08.036	5161VXK0006-603
S10		DDA 2088	OFF	08.036	5164VXK0005-603
	10	LDI 0983	OFF	08.040	0463SW SEL READ
	10	LDI 1099	OFF	08.040	0514S-IVB STAGE SELECTOR
	10	LDI 1102	OFF	08.040	0516SW SEL READ
	10	MDI 0816	ON	08.040	3516REG CONT BIT 1 VERIFY IN

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	IU	MDI 0817 ON	08.040	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	08.040	3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844 ON	08.040	3928SW SEL ZERO
S1B		DDA 2099 OFF	08.048	5172VXK0008-603
	IU	LDI 1090 OFF	08.048	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	08.048	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	08.048	0507BIT NO 3 VERIFY
S1B		DDA 2090 OFF	08.048	5171VXK0008-603
S1B		DDA 2100 OFF	08.048	5173VXK0008-603
S1B		DDA 2089 OFF	08.056	3766IU STAGE SEL
S1B	IU	MDI 2306 ON	08.056	3766IU STAGE SEL
	IU	LDI 1098 ON	08.060	5163VXK0005-603
S1B		DDA 2087 ON	08.060	5163VXK0005-603
	IU	MDI 0782 OFF	08.064	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	08.064	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	08.064	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF	08.064	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON	08.068	0506BIT NO 2 VERIFY
	IU	LDI 1097 ON	08.068	0512BIT NO 8 VERIFY
	IU	MDI 0819 ON	08.068	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	08.068	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2086 OFF	08.068	5162VXK0003-603
S1B		DDA 2093 ON	08.068	5166VXK0008-603
S1B		DDA 2096 ON	08.068	5169VXK0008-603
S1B		DDA 2099 ON	08.068	5172VXK0008-603
	IU	LDI 1094 OFF	08.072	0509BIT NO 5 VERIFY
S4B		LDO 1844 OFF	08.080	4535SW SEL ZERO
S1B	IU	MDI 2306 OFF	08.088	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	08.088	3767RESET COMMAND
S1B S4B	IU	-3- 155 RESET	08.088	
S1B		DDA 2084 ON	08.092	5160VXK0007-603
	IU	LDI 1098 OFF	08.096	0513IU STAGE SELECTOR
	IU	LDI 1103 ON	08.096	0517RESET COMMAND
	IU	MDI 0782 ON	08.096	3482SW SEL ZERO IND
	IU	MDI 0817 ON	08.096	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	08.096	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	08.096	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 OFF	08.096	5163VXK0005-603
	IU	LDI 1091 OFF	08.104	0506BIT NO 2 VERIFY
S1B	IU	MDI 2306 ON	08.104	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	08.104	3767RESET COMMAND
S1B		DDA 2086 ON	08.104	5162VXK0003-603
S1B		DDA 2093 OFF	08.104	5166VXK0008-603
S1B		DDA 2099 OFF	08.104	5172VXK0008-603
	IU	LDI 1094 OFF	08.108	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	08.108	0512BIT NO 8 VERIFY

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S1B		DDA 2087 ON 08.108 5163VXK0005-603
S1B		DDA 2096 OFF 08.108 5169VXK0008-603
	IU	LDI 1098 ON 08.112 0513IU STAGE SELECTOR
S1B		DDA 2084 OFF 08.112 5160VXK0007-603
	IU	LDI 1103 OFF 08.116 0517RESET COMMAND
	IU	MDI 1787 OFF 08.116 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 08.116 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 08.116 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF 08.116 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF 08.116 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 08.116 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON 08.120 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 08.120 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 08.120 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 08.120 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 08.120 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 08.120 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 08.120 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 08.120 0512BIT NO 8 VERIFY
	IU	MDI 0816 OFF 08.120 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 OFF 08.120 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 08.120 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 08.120 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON 08.120 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF 08.120 5162VXK0003-603
S1B		DDA 2093 ON 08.120 5166VXK0008-603
S1B		DDA 2094 ON 08.120 5167VXK0008-603
S1B		DDA 2095 ON 08.120 5168VXK0008-603
S1B		DDA 2096 ON 08.120 5169VXK0008-603
S1B		DDA 2098 ON 08.120 5171VXK0008-603
S1B		DDA 2099 ON 08.120 5172VXK0008-603
S1B		DDA 2100 ON 08.120 5173VXK0008-603
	IU	LDI 1094 OFF 08.132 0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF 08.132 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 08.132 5166VXK0008-603
S1B		DDA 2096 OFF 08.132 5169VXK0008-603
S4B		LDO 1844 ON 08.160 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 08.180 3768READ COMMAND
S1B S4B	IU	-3- 220 READ 08.180
S1B		DDA 2085 ON 08.184 5161VXK0006-603
	IU	LDI 0983 ON 08.188 0463SW SEL READ
	IU	LDI 1188 ON 08.188 0518IU STAGE SELECTOR
	IU	MDI 0637 OFF 08.188 3337EDS ENABLE LOGIC ZERO
	IU	MDI 0783 OFF 08.192 3483STAGE LOGIC ZERO IND
S1B		DDA 2149 ON 08.192 4134VK0004-603
S1B	IU	MDI 2306 OFF 08.220 3766IU STAGE SEL

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S1B	IU	MDI 2308	OFF	08.220	3768READ COMMAND
S1B		DDA 2087	OFF	08.228	5163VXK0005-603
S1B	IU	LDI 0983	OFF	08.232	0463SW SEL READ
	IU	LDI 1098	OFF	08.232	0513IU STAGE SELECTOR
	IU	LDI 1102	OFF	08.232	0516SW SEL READ
	IU	LDI 1091	OFF	08.236	0506BIT NO 2 VERIFY
	IU	MDI 0782	ON	08.236	3482SW SEL ZERO IND
	IU	MDI 0816	ON	08.236	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	ON	08.236	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	ON	08.236	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	08.236	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	ON	08.236	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	ON	08.236	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2149	OFF	08.236	4134VK0004-603
S1B		DDA 2086	ON	08.236	5162VXK0003-603
S1B		DDA 2098	OFF	08.236	5171VXK0008-603
S1B		DDA 2099	OFF	08.236	5172VXK0008-603
	IU	LDI 1090	OFF	08.240	0505BIT NO 1 VERIFY
	IU	LDI 1092	OFF	08.240	0507BIT NO 3 VERIFY
	IU	LDI 1093	OFF	08.240	0508BIT NO 4 VERIFY
	IU	LDI 1096	OFF	08.240	0511BIT NO 7 VERIFY
S1B		DDA 2094	OFF	08.240	5167VXK0008-603
S1B		DDA 2095	OFF	08.240	5168VXK0008-603
S1B		DDA 2100	OFF	08.240	5173VXK0008-603
	IU	LDI 1095	OFF	08.244	0510BIT NO 6 VERIFY
S1B	IU	MDI 2306	ON	08.264	3766IU STAGE SEL
	IU	LDI 1098	ON	08.268	0513IU STAGE SELECTOR
S1B		DDA 2087	ON	08.268	5163VXK0005-603
	IU	MDI 0782	OFF	08.272	3482SW SEL ZERO IND
	IU	MDI 0817	OFF	08.272	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821	OFF	08.272	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823	OFF	08.272	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086	OFF	08.276	5162VXK0003-603
S1B		DDA 2093	ON	08.276	5166VXK0008-603
S1B		DDA 2095	ON	08.276	5168VXK0008-603
S1B		DDA 2099	ON	08.276	5172VXK0008-603
	IU	LDI 1091	ON	08.280	0506BIT NO 2 VERIFY
	IU	LDI 1095	ON	08.280	0510BIT NO 6 VERIFY
	IU	LDI 1097	ON	08.280	0512BIT NO 8 VERIFY
S1B	IU	MDI 2306	OFF	08.304	3766IU STAGE SEL
S1B	IU	MDI 2307	ON	08.304	3767RESET COMMAND
S1B S4B	IU	-3- 135	RESET	08.304	
	IU	MDI 0817	ON	08.308	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0823	ON	08.308	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2094	OFF	08.240	5167VXK0008-603

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	IU	LDI 1091 OFF 08.312 0506BIT NO 2 VERIFY
	IU	LDI 1098 OFF 08.312 0513IU STAGE SELECTOR
	IU	LDI 1103 ON 08.312 0517RESET COMMAND
	IU	MDI 0782 ON 08.312 3482SW SEL ZERO IND
	IU	MDI 0821 ON 08.312 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2086 OFF 08.312 5162VXK0003-603
S1B		DDA 2087 OFF 08.312 5163VXK0005-603
S1B		DDA 2088 OFF 08.312 5164VXK0006-603
S1B		DDA 2099 OFF 08.312 5172VXK0008-603
	IU	LDI 1095 OFF 08.316 0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF 08.316 0512BIT NO 8 VERIFY
S1B	IU	MDI 2307 OFF 08.316 3767RESET COMMAND
S1B		DDA 2095 OFF 08.316 5168VXK0008-603
S1B	IU	MDI 2306 ON 08.320 3766IU STAGE SEL
	IU	LDI 1098 ON 08.328 0513IU STAGE SELECTOR
	IU	MDI 0817 OFF 08.328 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF 08.328 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 08.328 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF 08.328 5160VXK0007-603
S1B		DDA 2087 ON 08.328 5163VXK0005-603
	IU	LDI 1103 OFF 08.332 0517RESET COMMAND
	IU	MDI 0782 OFF 08.332 3482SW SEL ZERO IND
	IU	MDI 0816 OFF 08.332 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF 08.332 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 08.332 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 08.332 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 08.332 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 08.332 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 08.332 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON 08.336 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 08.336 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 08.336 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 08.336 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 08.336 0509BIT NO 5 VERIFY
	IU	LDI 1096 ON 08.336 0511BIT NO 7 VERIFY
S1B		DDA 2086 OFF 08.336 5162VXK0003-603
S1B		DDA 2094 ON 08.336 5167VXK0008-603
S1B		DDA 2096 ON 08.336 5169VXK0008-603
S1B		DDA 2098 ON 08.336 5171VXK0008-603
S1B		DDA 2100 ON 08.336 5173VXK0008-603
	IU	LDO 0637 OFF 08.352 4404EDS ENABLE LOGIC ZERO
	IU	LDO 0783 OFF 08.364 4907STAGE LOGIC ZERO IND
S1B	IU	MDI 2308 ON 08.408 3768READ COMMAND
S1B S4B	IU	-3- 240 READ 08.408
S1B		DDA 2149 ON 08.416 4134VK0004-603

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	IU	DEE 3790 OFF 08.416 5153YAW-PITCH 3 ENABLE
	IU	LDI 0983 ON 08.420 0463SW SEL READ
	IU	LDI 1102 ON 08.420 0516SW SEL READ
	IU	DEE 3788 OFF 08.420 5151YAW-PITCH 1 ENABLE
	IU	DEE 3789 OFF 08.420 5152YAW-PITCH 2 ENABLE
	IU	DEE 3791 OFF 08.420 5154ROLL 1 ENABLE
	IU	DEE 3792 OFF 08.420 5155ROLL 2 ENABLE
	IU	DEE 3793 OFF 08.420 5156ROLL 3 ENABLE
S1B		DDA 2085 ON 08.420 5161VXK0006-603
S1B	IU	MDI 2306 OFF 08.460 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 08.460 3768READ COMMAND
S1B		DDA 2008 OFF 08.460 4067VR0032-602
S1B		DDA 2009 OFF 08.464 4068VR0031-602
S1B		DDA 2121 ON 08.468 4115VK0125-602
S1B		DDA 2122 ON 08.468 4116VK0124-602
S1B		DDA 2123 ON 08.468 4117VK0123-602
	IU	LDI 0983 OFF 08.472 0463SW SEL READ
	IU	LDI 1098 OFF 08.472 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 08.472 0516SW SEL READ
	IU	MDI 0782 ON 08.472 3482SW SEL ZERO IND
	IU	MDI 0816 ON 08.472 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 08.472 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 0 08.472 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 08.472 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 08.472 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON 08.472 3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2085 OFF 08.472 5161VXK0006-603
S1B		DDA 2087 OFF 08.472 5163VXK0005-603
S1B		DDA 2086 ON 08.476 5162VXK0003-603
	IU	LDI 1091 OFF 08.480 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 08.480 0507BIT NO 3 VERIFY
S1B		DDA 2149 OFF 08.480 4134VK0004-603
S1B		DDA 2094 OFF 08.480 5167VXK0008-603
S1B		DDA 2096 OFF 08.480 5169VXK0008-603
S1B		DDA 2098 OFF 08.480 5171VXK0008-603
S1B		DDA 2099 OFF 08.480 5172VXK0008-603
S1B		DDA 2100 OFF 08.480 5173VXK0008-603
	IU	LDI 1090 OFF 08.484 0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF 08.484 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 08.484 0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF 08.484 0511BIT NO 7 VERIFY
S1B	IU	MDI 2306 ON 08.496 3766IU STAGE SEL
	IU	MDI 0816 OFF 08.500 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 08.500 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 08.500 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 08.500 3519REG CONT BIT 4 VERIFY IN

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	IU	MDI 0820 OFF	08.500	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	08.500	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2087 ON	08.500	5163VXK0005-603
S1B		DDA 2094 ON	08.500	5167VXK0008-603
S1B		DDA 2098 ON	08.500	5171VXK0008-603
S1B		DDA 2099 ON	08.500	5172VXK0008-603
S1B		DDA 2100 ON	08.500	5173VXK0008-603
	IU	LDI 1090 OFF	08.504	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	08.504	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	08.504	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	08.504	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	08.504	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	08.504	0511BIT NO 7 VERIFY
	IU	LDI 1098 ON	08.504	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	08.504	3482SW SEL ZERO IND
	IU	MDI 0818 ON	08.504	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	08.504	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	08.504	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	08.504	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	08.504	5162VXK0003-603
S1B		DDA 2096 ON	08.504	5169VXK0008-603
	IU	LDI 1095 ON	08.512	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	08.512	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	08.512	5166VXK0008-603
S1B		DDA 2095 ON	08.512	5168VXK0008-603
S1B		DDA 2098 OFF	08.512	5171VXK0008-603
	IU	LDI 1092 OFF	08.516	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	08.516	0508BIT NO 4 VERIFY
S1B		DDA 0117 OFF	08.516	5248VK0224-337
S1B		DDA 0118 OFF	08.516	5249VK0225-337
S1B		DDA 0119 OFF	08.520	5250VK0200-337
S1B		DDA 0120 OFF	08.520	5251VK0201-337
S1B	IU	MDI 2306 OFF	08.528	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	08.528	3767RESET COMMAND
S1B S4B	IU	-3- 014 RESET	08.528	
	IU	LDI 1103 ON	08.536	0517RESET COMMAND
	IU	MDI 0782 ON	08.536	3482SW SEL ZERO IND
	IU	MDI 0816 ON	08.536	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	08.536	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	08.536	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	08.536	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	08.536	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	08.536	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	08.536	5160VXK0007-603
S1B		DDA 2087 OFF	08.536	5163VXK0005-603
	IU	LDI 1098 OFF	08.540	0513IU STAGE SELECTOR

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S1B	IU	MDI 2306 ON	08.544	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	08.544	3767RESET COMMAND
S1B		DDA 2086 ON	08.544	5162VXK0003-603
S1B		DDA 2099 OFF	08.544	5172VXK0008-603
	IU	LDI 1090 OFF	08.548	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	08.548	0506BIT NO 2 VERIFY
	IU	LDI 1094 OFF	08.548	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	08.548	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	08.548	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	08.548	5166VXK0008-603
S1B		DDA 2094 OFF	08.548	5167VXK0008-603
S1B		DDA 2095 OFF	08.548	5168VXK0008-603
S1B		DDA 2096 OFF	08.548	5169VXK0008-603
S1B		DDA 2100 OFF	08.548	5173VXK0008-603
	IU	LDI 1095 OFF	08.552	0510BIT NO 6 VERIFY
	IU	LDI 1098 ON	08.552	0513IU STAGE SELECTOR
S1B		DDA 2087 ON	08.552	5163VXK0005-603
	IU	LDI 1103 OFF	08.556	0517RESET COMMAND
	IU	MDI 0782 OFF	08.556	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	08.556	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	08.556	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	08.556	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF	08.556	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	08.556	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	08.556	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF	08.556	5160VXK0007-603
	IU	LDI 1091 ON	08.560	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	08.560	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	08.560	0508BIT NO 4 VERIFY
	IU	MDI 0816 ON	08.560	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 OFF	08.560	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	08.560	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	08.560	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	08.560	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	08.560	5162VXK0003-603
S1B		DDA 2098 ON	08.560	5171VXK0008-603
S1B		DDA 2099 ON	08.560	5172VXK0008-603
S1B	IU	MDI 2308 ON	08.584	3768READ COMMAND
S1B S4B	IU	-3- 361 READ	08.584	
S1B		DDA 2085 ON	08.584	5161VXK0006-603
	IU	LDI 0983 ON	08.588	0463SW SEL READ
	IU	LDI 1102 ON	08.588	0516SW SEL READ
S1B		DDA 2149 ON	08.592	4134VK0004-603
S1B		DDA 0271 OFF	08.596	1470VK0212-337
S1B		DDA 0272 OFF	08.596	1471VK0211-337
S1B	IU	MDI 2306 OFF	08.628	3766IU STAGE SEL

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S1B	IU	MDI 2308	OFF	08.628	3768READ COMMAND
S1B		DDA 2085	OFF	08.636	5161VXK0006-603
S1B		DDA 2087	OFF	08.636	5163VXK0005-603
	IU	LDI 0983	OFF	08.640	0463SW SEL READ
	IU	LDI 1098	OFF	08.640	0513IU STAGE SELECTOR
	IU	LDI 1100	OFF	08.640	0515SW SEL STA
	IU	MDI 0782	ON	08.640	3482SW SEL ZERO IND
	IU	MDI 0817	ON	08.640	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	ON	08.640	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	08.640	3519REG CONT BIT 4 VERIFY IN
S1B		DDA 2149	OFF	08.644	4134VK0004-603
S1B		DDA 2098	ON	08.644	5162VXK0003-603
S1B		DDA 2099	OFF	08.644	5172VXK0008-603
	IU	LDI 1091	OFF	08.648	0506BIT NO 2 VERIFY
	IU	LDI 1092	OFF	08.648	0507BIT NO 3 VERIFY
	IU	LDI 1093	OFF	08.648	0508BIT NO 4 VERIFY
S1B		MDI 2187	OFF	08.648	2596TCS PULSE OK
S1B		DDA 2098	ON	08.648	5171VXK0008-603
S1B	IU	MDI 2306	ON	08.672	3766IU STAGE SEL
	IU	LDI 1098	ON	08.676	0513IU STAGE SELECTOR
	IU	MDI 0782	OFF	08.676	3482SW SEL ZERO IND
	IU	MDI 0817	OFF	08.676	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	08.676	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	08.676	3519REG CONT BIT 4 VERIFY IN
S1B		DDA 2087	ON	08.676	5163VXK0005-603
S1B		DDA 2098	ON	08.676	5171VXK0008-603
S1B		DDA 2099	ON	08.676	5172VXK0008-603
	IU	LDI 1091	ON	08.680	0506BIT NO 2 VERIFY
	IU	LDI 1092	ON	08.680	0507BIT NO 3 VERIFY
	IU	LDI 1093	ON	08.680	0508BIT NO 4 VERIFY
	IU	MDI 0816	OFF	08.680	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818	ON	08.680	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	08.680	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	OFF	08.680	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	08.680	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	08.680	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093	ON	08.684	5166VXK0006-603
S1B		DDA 2094	ON	08.684	5167VXK0008-603
S1B		DDA 2100	ON	08.684	5173VXK0008-603
	IU	LDI 1090	ON	08.688	0505BIT NO 1 VERIFY
	IU	LDI 1092	OFF	08.688	0507BIT NO 3 VERIFY
	IU	LDI 1095	ON	08.688	0510BIT NO 6 VERIFY
	IU	LDI 1096	ON	08.688	0511BIT NO 7 VERIFY
	IU	LDI 1097	ON	08.688	0512BIT NO 8 VERIFY
S1B		DDA 2098	OFF	08.688	5162VXK0003-603
S1B		DDA 2095	ON	08.688	5168VXK0008-603

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S1		DDA 2098 OFF 08.688 5171VXK0008-603
	IU	LDI 1093 OFF 08.692 0508BIT NO 4 VERIFY
S1B	IU	MDI 2306 OFF 08.708 3766IU STAGE SEL
S1B	IU	MDI 2307 ON 08.708 3767RESET COMMAND
S1B S4B	IU	-3- 034 RESET 08.708
	IU	MDI 0782 ON 08.716 3482SW SEL ZERO IND
	IU	MDI 0816 ON 08.716 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 08.716 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 ON 08.716 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 08.716 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 08.716 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF 08.720 0506BIT NO 2 VERIFY
	IU	LDI 1098 OFF 08.720 0513IU STAGE SELECTOR
	IU	LDI 1103 ON 08.720 0517RESET COMMAND
S1B		DDA 2084 ON 08.720 5160VXK0007-603
S1B		DDA 2086 ON 08.720 5162VXK0003-603
S1B		DDA 2087 OFF 08.720 5163VXK0005-603
S1B		DDA 2091 OFF 08.720 5171VXK0008-603
	IU	LDI 1090 OFF 08.724 0505BIT NO 1 VERIFY
	IU	LDI 1095 OFF 08.724 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 08.724 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 08.724 0512BIT NO 8 VERIFY
S1B	IU	MDI 2306 ON 08.724 3766IU STAGE SEL
S1B	IU	MDI 2307 OFF 08.724 3767RESET COMMAND
S1B		DDA 2087 ON 08.724 5163VXK0005-603
S1B		DDA 2093 OFF 08.724 5166VXK0008-603
S1B		DDA 2094 OFF 08.724 5167VXK0008-603
S1B		DDA 2095 OFF 08.724 5168VXK0008-603
S1B		DDA 2100 OFF 08.724 5173VXK0008-603
	IU	LDI 1098 ON 08.728 0513IU STAGE SELECTOR
	IU	LDI 1090 ON 08.736 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 08.736 0506BIT NO 2 VERIFY
	IU	LDI 1095 ON 08.736 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 08.736 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 08.736 0512BIT NO 8 VERIFY
	IU	MDI 0782 OFF 08.736 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 08.736 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 08.736 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 08.736 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 08.736 3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2093 ON 08.736 5166VXK0008-603
S1B		DDA 2094 ON 08.736 5167VXK0008-603
S1B		DDA 2095 ON 08.736 5168VXK0008-603
S1B		DDA 2099 ON 08.736 5172VXK0008-603
S1B		DDA 2100 ON 08.736 5173VXK0008-603
	IU	LDI 1103 OFF 08.740 0517RESET COMMAND

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S1B		DDA 2084 OFF 08.740 5160VXK0007-603
	IU	LDI 1092 ON 08.744 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 08.744 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 08.744 0509BIT NO 5 VERIFY
S1B		DDA 2086 OFF 08.744 5162VXK0003-603
S1B		DDA 2096 ON 08.744 5169VXK0008-603
S1B		DDA 2098 ON 08.744 5171VXK0008-603
	IU	LDI 1090 OFF 08.748 0505BIT NO 1 VERIFY
	IU	LDI 1096 OFF 08.748 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 08.748 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 08.748 5166VXK0008-603
S1B		DDA 2094 OFF 08.748 5167VXK0008-603
S1B		DDA 2095 OFF 08.748 5168VXK0008-603
S1B		DDA 2100 OFF 08.748 5173VXK0008-603
	IU	LDI 1095 OFF 08.752 0510BIT NO 6 VERIFY
S1B	IU	MDI 2308 ON 08.776 3768READ COMMAND
S1B S4B	IU	-3- 341 READ 08.776
	IU	MDI 0641 OFF 08.784 3341ABORT NO 1B COMM TO SC
	IU	MDI 0642 OFF 08.784 3342ABORT NO 2A COMM TO SC
	IU	MDI 0643 OFF 08.784 3343ABORT NO 2B COMM TO SC
	IU	MDI 0644 OFF 08.784 3344ABORT NO 3A COMM TO SC
	IU	MDI 0645 OFF 08.784 3345ABORT NO 3B COMM TO SC
	IU	MDI 0646 OFF 08.784 3346ABORT BUS
S1B		DDA 3149 OFF 08.784 5154VXK0004-603
	IU	DEE 3795 OFF 08.784 5157ENG OUT 1 ENABLE
	IU	DEE 3796 OFF 08.784 5158ENG OUT 2 ENABLE
	IU	DEE 3797 OFF 08.784 5159ENG OUT 3 ENABLE
S1B		DDA 2085 OFF 08.784 5161VXK0006-603
	IU	LDI 0983 ON 08.788 0463SW SEL READ
	IU	LDI 1102 ON 08.788 0516SW SEL READ
	IU	MDI 0640 OFF 08.788 3340ABORT NO 1A COMM TO SC
	IU	MDI 0647 OFF 08.788 3347EDS UNSAFE A
	IU	MDI 0648 OFF 08.788 3348EDS UNSAFE B
	IU	LDI 0895 OFF 08.792 0427EDS ABORT B
	IU	LDI 1010 ON 08.792 0487NO ABORT NO.1 FROM L/V
	IU	LDI 1011 ON 08.792 0488NO ABORT NO.2 FROM L/V
	IU	LDI 1012 ON 08.792 0489NO ABORT NO.3 FROM L/V
	IU	LDI 1029 OFF 08.792 0496EDS ABORT A
S1B		DDA 2004 OFF 08.796 4063VXK0013-602
S1B	IU	MDI 2306 OFF 08.804 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 08.804 3768READ COMMAND
	IU	LDI 0983 OFF 08.812 0463SW SEL READ
	IU	LDI 1098 OFF 08.812 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 08.812 0516SW SEL READ
S1B		DDA 2085 OFF 08.812 5161VXK0006-603
S1B		DDA 2087 OFF 08.812 5163VXK0005-603

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	IU	MDI 0702 ON	08.820	3482SW SEL ZERO IND
	IU	MDI 0817 ON	08.820	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	08.820	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	08.820	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	08.820	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2147 OFF	08.828	4134VXK0004-603
	IU	LDI 1091 OFF	08.828	0506BIT NO 2 VERIFY
S1B	IU	MDI 2304 ON	08.828	3764S-IB STAGE SEL
S1B		DDA 2086 ON	08.828	5162VXK0003-603
S1B		DDA 2098 OFF	08.828	5171VXK0008-603
S1B		DDA 2099 OFF	08.828	5172VXK0008-603
	IU	LDI 1092 OFF	08.832	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	08.832	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	08.832	0509BIT NO 5 VERIFY
S1B		DDA 2096 OFF	08.832	5169VXK0008-603
	IU	LDI 1101 ON	08.836	0515S-IB STAGE SELECTOR
	IU	MDI 0817 OFF	08.836	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	08.836	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF	08.836	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 OFF	08.836	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2090 ON	08.836	5165VXK0005-603
	IU	LDI 1091 ON	08.844	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	08.844	0508BIT NO 4 VERIFY
	IU	LDI 1097 ON	08.844	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	08.844	5166VXK0008-603
S1B		DDA 2099 ON	08.844	5172VXK0008-603
S1B	IU	MDI 2304 OFF	08.860	3764S-IB STAGE SEL
S1B	IU	MDI 2307 ON	08.860	3767RESET COMMAND
S1B S4B	IU	-1- 165 RESET	08.860	
	IU	LDI 1103 ON	08.868	0517RESET COMMAND
	IU	MDI 0817 ON	08.868	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	08.868	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	08.868	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 ON	08.868	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2084 ON	08.868	5160VXK0007-603
S1B		DDA 2099 OFF	08.868	5172VXK0008-603
	IU	LDI 1091 OFF	08.872	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	08.872	0512BIT NO 8 VERIFY
	IU	LDI 1101 OFF	08.872	0515S-IB STAGE SELECTOR
S1B		DDA 2093 OFF	08.872	5166VXK0008-603
S1B		DDA 2093 OFF	08.872	5166VXK0008-603
	IU	LDI 1093 OFF	08.876	0508BIT NO 4 VERIFY
S1B	IU	MDI 2304 ON	08.876	3764S-IB STAGE SEL
S1B	IU	MDI 2307 OFF	08.876	3767RESET COMMAND
S1B		DDA 2090 ON	08.884	5165VXK0005-603
	IU	LDI 1101 ON	08.888	0515S-IB STAGE SELECTOR

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	IU	LDI 1103 OFF 08.888 0517RESET COMMAND
	IU	MDI 0816 OFF 08.888 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 08.888 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 08.888 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF 08.888 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 08.888 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 08.888 3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 OFF 08.888 3734SWITCH SELECTOR ZERO IND
S1B		DDA 2084 OFF 08.888 5160VXK0007-603
	IU	MDI 0820 OFF 08.892 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON 08.892 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2094 ON 08.892 5167VXK0008-603
S1B		DDA 2096 ON 08.892 5169VXK0008-603
S1B		DDA 2098 ON 08.892 5171VXK0008-603
S1B		DDA 2099 ON 08.892 5172VXK0008-603
S1B		DDA 2100 ON 08.892 5173VXK0008-603
	IU	LDI 1090 ON 08.896 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 08.896 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 08.896 0507BIT NO 3 VERIFY
	IU	LDI 1094 ON 08.896 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 08.896 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 08.896 0511BIT NO 7 VERIFY
S1B		DDA 2095 ON 08.896 5168VXK0008-603
S1B	IU	MDI 2308 ON 08.892 3768READ COMMAND
S1B S4B	IU	-1- 210 READ 08.892
S1B		MDI 2220 ON 08.896 2609ENG 518 CUTOFF
S1B		DDA 1109 ON 08.896 4048VK0001-012
S1B		DDA 2085 ON 09.100 5161VXK0006-603
	IU	LDI 0983 ON 09.104 0463SW SEL READ
	IU	LDI 1102 ON 09.104 0516SW SEL READ
S1B		DDA 0113 OFF 09.116 5245VK0221-337
S1B		DDA 0114 OFF 09.116 5246VK0222-337
S1B		MDI 2187 ON 09.120 2596TCS PULSE OK
S1B	IU	MDI 2304 OFF 09.132 3764S-IB STAGE SEL
S1B	IU	MDI 2308 OFF 09.132 3768READ COMMAND
S1B		DDA 2085 OFF 09.136 5161VXK0006-603
	IU	LDI 0983 OFF 09.140 0463SW SEL READ
	IU	LDI 1101 OFF 09.140 0515S-IB STAGE SELECTOR
	IU	LDI 1102 OFF 09.140 0516SW SEL READ
	IU	LDO 0640 OFF 09.140 4407ABORT NO 1A COMM TO SC
	IU	LDO 0641 OFF 09.140 4408ABORT NO 1B COMM TO SC
	IU	LDO 0642 OFF 09.140 4409ABORT NO 2A COMM TO SC
	IU	LDO 0643 OFF 09.140 4410ABORT NO 2B COMM TO SC
	IU	LDO 0644 OFF 09.140 4411ABORT NO 3A COMM TO SC
	IU	LDO 0645 OFF 09.140 4412ABORT NO 3B COMM TO SC
	IU	LDO 0646 OFF 09.140 4413ABORT BUS

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S1B		DDA 2080 OFF	09.040	5165VXK0005-603
	IU	MDI 0816 ON	09.044	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	09.044	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	09.044	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON	09.044	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	09.044	3522REG CONT BIT 7 VERIFY IN
S1B		MDI 2065 ON	09.044	3734SWITCH SELECTOR ZERO IND
	IU	MDI 0821 ON	09.044	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 1109 OFF	09.048	5166VXK0006-603
	IU	LDO 0647 OFF	09.052	4414EDS UNSAFE A
S1B		DDA 2099 OFF	09.052	5172VXK0008-603
	IU	LDI 1090 OFF	09.056	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	09.056	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	09.056	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	09.056	0509BIT NO 5 VERIFY
S1B		DDA 2094 OFF	09.056	5167VXK0007-603
S1B		DDA 2095 OFF	09.056	5168VXK0008-603
S1B		DDA 2096 OFF	09.056	5169VXK0008-603
S1B		DDA 2098 OFF	09.056	5171VXK0008-603
S1B		DDA 2100 OFF	09.056	5173VXK0008-603
	IU	LDI 1095 OFF	09.060	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	09.060	0511BIT NO 7 VERIFY
	IU	LDO 0648 OFF	09.084	4415EDS UNSAFE B
	IU	MDO 1904 ON	09.448	1601EDS RG ROLL AXIS SEL ON
	IU	MDI 0632 ON	09.448	3332EDSRG ROLL AXIS SELECT
	IU	LDO 0632 ON	09.540	4399EDSRG ROLL AXIS SELECT
S1B		MDI 2187 OFF	09.648	2596TCS PULSE OK
S1B		MDI 2187 ON	10.020	2596TCS PULSE OK
S1B		MDI 2187 OFF	10.648	2596TCS PULSE OK
	IU	MDO 0694 ON	10.960	2026RAMP POS
	IU	MDI 0889 ON	10.968	3577RAMP IND
	IU	MDI 2236 OFF	10.976	2605RAMP NO 1 ZERO
	IU	MDI 2237 OFF	10.980	2606RAMP NO 2 ZERO
	IU	MDI 2238 OFF	10.980	2607RAMP NO 3 ZERO
S1B		MDI 2187 ON	11.020	2596TCS PULSE OK
	IU	LDO 0889 ON	11.056	4417EDS UNSAFE C
S1B		DDA 2125 OFF	11.388	4119VR0029-602
S1B		MDI 2187 OFF	11.648	2596TCS PULSE OK
S1B		DDA 2126 OFF	11.720	4120VR0028-602
S1B		MDI 2187 ON	12.020	2596TCS PULSE OK
S1B		MDI 2187 OFF	12.648	2596TCS PULSE OK
S1B		MDI 2187 ON	13.020	2596TCS PULSE OK
S1B		MDI 2187 OFF	13.648	2596TCS PULSE OK
S1B		MDI 2187 ON	14.020	2596TCS PULSE OK
S1B		MDO 0709 ON	14.024	1516LOX LEVEL SENS NO. 2
S1B		MDI 0388 ON	14.024	3203FUEL 1 LOX 2 SENSOR

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S1A		MDI 2587 OFF	14.024	3870LOX LEVEL SENS NO. 2
	IU	MDO 0894 ON	14.028	2088CMD 1B LEVEL S DRY SIM A
S1A	IU	MDI 2306 ON	14.060	3766IU STAGE SEL
	IU	LDI 1091 ON	14.068	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	14.068	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	14.068	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	14.068	0509BIT NO 5 VERIFY
	IU	LDI 1098 ON	14.068	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	14.068	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	14.068	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	14.068	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	14.068	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	14.068	3523REG CONT BIT 8 VERIFY IN
S1A		DDA 2087 ON	14.068	5169VXK0008-603
S1B		DDA 2096 ON	14.068	5169VXK0008-603
S1B		DDA 2098 ON	14.068	5171VXK0008-603
S1B		DDA 2099 ON	14.068	5172VXK0008-603
	IU	LDI 1097 ON	14.076	0512BIT NO 8 VERIFY
S1B		LDO 0388 ON	14.076	4288FUEL 1 LOX 2 SENSOR
S1B		DDA 2086 OFF	14.076	5162VXK0003-603
S1B		DDA 2093 ON	14.076	5166VXK0008-603
S1B		DDA 2095 ON	14.076	5168VXK0008-603
	IU	LDI 1092 OFF	14.080	0507BIT NO 3 VERIFY
	IU	LDI 1095 ON	14.080	0510BIT NO 6 VERIFY
S1B		DDA 2098 OFF	14.080	5171VXK0008-603
	IU	LDI 1093 OFF	14.084	0508BIT NO 4 VERIFY
S1B	IU	MDI 2306 OFF	14.104	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	14.104	3767RESET COMMAND
S1B S4B	IU	-3- 115 RESET	14.104	
	IU	MDI 0817 ON	14.108	3517REG CONT BIT 2 VERIFY IN
S1B		DDA 2084 ON	14.108	5160VXK0007-603
S1B		LDI 0122 ON	14.112	0073LOX LEVEL CUTOFF IND NO2
	IU	LDI 1091 OFF	14.112	0506BIT NO 2 VERIFY
	IU	LDI 1098 OFF	14.112	0513IU STAGE SELECTOR
	IU	LDI 1103 ON	14.112	0517RESET COMMAND
S1B		DDA 1033 ON	14.112	2492VXK0013-032
	IU	MDI 0782 ON	14.112	3482SW SEL ZERO IND
	IU	MDI 0820 ON	14.112	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	14.112	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	14.112	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 OFF	14.112	5163VXK0005-603
S1B		DDA 2093 OFF	14.112	5166VXK0008-603
S1B		DDA 2096 OFF	14.112	5169VXK0008-603
S1B		DDA 2099 OFF	14.112	5172VXK0008-603
	IU	LDI 1094 OFF	14.116	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	14.116	0510BIT NO 6 VERIFY

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	IU		LDI 1097 OFF 14.116 0512BIT NO 8 VERIFY
S1B			DDA 2095 OFF 14.116 5168VXK0008-603
S1B	IU		MDI 2306 ON 14.120 3766IU STAGE SEL
S1B	IU		MDI 2307 OFF 14.120 3767RESET COMMAND
S1B			DDA 2086 ON 14.120 5162VXK0003-603
S1B			DDA 2087 ON 14.124 5163VXK0005-603
	IU		LDI 1098 ON 14.128 0513IU STAGE SELECTOR
S1B			DDA 2084 OFF 14.128 5160VXK0007-603
	IU		LDI 1103 OFF 14.132 0517RESET COMMAND
	IU		MDI 0782 OFF 14.132 3482SW SEL ZERO IND
	IU		MDI 0816 OFF 14.132 3516REG CONT BIT 1 VERIFY IN
	IU		MDI 0817 OFF 14.132 3517REG CONT BIT 2 VERIFY IN
	IU		MDI 0818 OFF 14.132 3518REG CONT BIT 3 VERIFY IN
	IU		MDI 0819 OFF 14.132 3519REG CONT BIT 4 VERIFY IN
	IU		MDI 0822 OFF 14.132 3522REG CONT BIT 7 VERIFY IN
S1B			DDA 2094 ON 14.132 5167VXK0008-603
	IU		LDI 1090 ON 14.136 0505BIT NO 1 VERIFY
	IU		LDI 1091 ON 14.136 0506BIT NO 2 VERIFY
	IU		LDI 1092 ON 14.136 0507BIT NO 3 VERIFY
	IU		LDI 1093 ON 14.136 0508BIT NO 4 VERIFY
	IU		LDI 1096 ON 14.136 0511BIT NO 7 VERIFY
S1B			DDA 2086 OFF 14.136 5162VXK0003-603
S1B			DDA 2098 ON 14.136 5171VXK0008-603
S1B			DDA 2099 ON 14.136 5172VXK0008-603
S1B			DDA 2100 ON 14.136 5173VXK0008-603
S1B	IU		MDI 2308 ON 14.192 3768READ COMMAND
S1B S4B	IU	-3-	260 READ 14.192
S1B			DDA 2149 ON 14.200 4134VK0004-603
S1B			DDA 2085 ON 14.200 5161VXK0006-603
	IU		LDI 0983 ON 14.204 0463SW SEL READ
	IU		LDI 1102 ON 14.204 0516SW SEL READ
S1B	IU		MDI 2306 OFF 14.232 3766IU STAGE SEL
S1B	IU		MDI 2308 OFF 14.232 3768READ COMMAND
S1B			DDA 2085 OFF 14.244 5161VXK0006-603
S1B			DDA 2087 OFF 14.244 5163VXK0005-603
	IU		LDI 0983 OFF 14.248 0463SW SEL READ
	IU		LDI 1098 OFF 14.248 0513IU STAGE SELECTOR
	IU		LDI 1102 OFF 14.248 0516SW SEL READ
	IU		MDI 0782 ON 14.248 3482SW SEL ZERO IND
	IU		MDI 0816 ON 14.248 3516REG CONT BIT 1 VERIFY IN
	IU		MDI 0817 ON 14.248 3517REG CONT BIT 2 VERIFY IN
	IU		MDI 0818 ON 14.248 3518REG CONT BIT 3 VERIFY IN
	IU		MDI 0819 ON 14.248 3519REG CONT BIT 4 VERIFY IN
	IU		MDI 0822 ON 14.248 3522REG CONT BIT 7 VERIFY IN
	IU		LDI 1091 OFF 14.252 0506BIT NO 2 VERIFY
S1B			DDA 2149 OFF 14.252 4134VK0004-603

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S1B		DDA 2086 ON	14.252	5162VXK0003-603
S1B		DDA 2098 OFF	14.252	5171VXK0008-603
S1B		DDA 2099 OFF	14.252	5172VXK0008-603
	IU	LDI 1090 OFF	14.256	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	14.256	0507BIT NO 3 VERIFY
	IU	LDI 1096 OFF	14.256	0511BIT NO 7 VERIFY
S1B	IU	MDI 2306 ON	14.256	3766IU STAGE SEL
S1B		DDA 2094 OFF	14.256	5167VXK0008-603
S1B		DDA 2100 OFF	14.256	5173VXK0008-603
	IU	LDI 1098 ON	14.260	0513IU STAGE SELECTOR
S1B		DDA 2087 ON	14.260	5163VXK0005-603
	IU	MDI 0782 OFF	14.264	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	14.264	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	14.264	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	14.264	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF	14.264	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON	14.268	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	14.268	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	14.268	0508BIT NO 4 VERIFY
	IU	LDI 1097 ON	14.268	0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF	14.268	5162VXK0003-603
S1B		DDA 2093 ON	14.268	5166VXK0008-603
S1B		DDA 2098 ON	14.268	5171VXK0008-603
S1B		DDA 2099 ON	14.268	5172VXK0008-603
S1B	IU	MDI 2308 ON	14.384	3768READ COMMAND
S1B S4B	IU	-3- 161 READ	14.384	
	IU	LDI 0983 ON	14.392	0463SW SEL READ
	IU	LDI 1102 ON	14.392	0516SW SEL READ
S1B		DDA 2085 ON	14.392	5161VXK0006-603
S1B		DDA 2149 ON	14.400	4134VK0004-603
S1B	IU	MDI 2306 OFF	14.416	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	14.416	3768READ COMMAND
	IU	LDI 0983 OFF	14.428	0463SW SEL READ
	IU	LDI 1098 OFF	14.428	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	14.428	0516SW SEL READ
	IU	MDI 0782 ON	14.428	3482SW SEL ZERO IND
	IU	MDI 0817 ON	14.428	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	14.428	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	14.428	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	14.428	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 OFF	14.428	5163VXK0005-603
S1B	IU	LDI 1091 OFF	14.436	0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF	14.436	4134VK0004-603
S1B		DDA 2086 OFF	14.436	5162VXK0003-603

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S1B		DDA 2093 OFF 14.436 5166VXK0008-603
S1B		DDA 2098 OFF 14.436 5171VXK0008-603
S1B		DDA 2099 OFF 14.436 5172VXK0008-603
	IU	LDI 1092 OFF 14.440 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 14.440 0508BIT NO 4 VERIFY
	IU	LDI 1097 OFF 14.440 0512BIT NO 8 VERIFY
S1B		MDI 2187 OFF 14.648 2596TCS PULSE OK
S1B		MDI 2187 ON 15.020 2596TCS PULSE OK
S1B		MDI 2187 OFF 15.648 2596TCS PULSE OK
	IU	MDO 0694 OFF 15.952 2026RAMP POS
	IU	MDI 0889 OFF 15.960 3577RAMP IND
	IU	LDO 0889 OFF 16.016 4674RAMP IND
S1B		MDI 2187 ON 16.020 2596TCS PULSE OK
S1B		MDI 2187 OFF 16.648 2596TCS PULSE OK
S1B	IU	MDI 2304 ON 16.836 3764S-IB STAGE SEL
	IU	LDI 1101 ON 16.844 0515S-IB STAGE SELECTOR
	IU	MDI 0816 OFF 16.844 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 16.844 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 16.844 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 16.844 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 16.844 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 16.844 3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 OFF 16.844 3734SWITCH SELECTOR ZERO IND
S1B		DDA 2090 ON 16.844 5165VXK0005-603
	IU	LDI 1090 ON 16.852 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 16.852 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 16.852 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 16.852 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 16.852 0510BIT NO 6 VERIFY
	IU	LDI 1097 ON 16.852 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 16.852 5166VXK0008-603
S1B		DDA 2095 ON 16.852 5168VXK0008-603
S1B		DDA 2096 ON 16.852 5169VXK0008-603
S1B		DDA 2099 ON 16.852 5172VXK0008-603
S1B		DDA 2100 ON 16.852 5173VXK0008-603
S1B		DDA 2124 OFF 16.884 4118VR0030-602
S1B	IU	MDI 2308 ON 16.992 3768READ COMMAND
S1B	IU	-1- 104 16.992
S1B		MDI 0089 ON 16.996 2969ENG 5-8 CUTOFF
S1B		MDI 0180 OFF 16.996 3050COM ENG 5 THRUST RELAY 3
S1B		MDI 0183 OFF 16.996 3053COM ENG 8 THRUST RELAY 3
S1B		MDI 0189 OFF 16.996 3059COM ENG 6 THRUST RELAY 2
S1B		MDI 0191 OFF 16.996 3228COM ENG 8 THRUST RELAY 2
	IU	MDI 0615 OFF 16.996 3315ENG NO 5 THRUST OK NO 3
	IU	MDI 0764 OFF 16.996 3464ENG NO. 6 THRUST OK NO.2
	IU	MDI 0776 OFF 16.996 3476ENG NO. 7 THRUST OK NO.1

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	IU	MDI 0811 OFF 16.996 3511ENG NO. 8 THRUST OK NO.1
	IU	MDI 0814 OFF 16.996 3514ENG NO. 8 THRUST OK NO.2
	IU	MDI 0833 OFF 16.996 3533ENG NO. 8 THRUST OK NO.3
S1B		MDI 2582 ON 16.996 3866INBD CUTOFF
S1B		DDA 1109 ON 16.996 4048VK0001-012
	IU	LDI 0983 ON 17.000 0463SW SEL READ
	IU	LDI 1102 ON 17.000 0516SW SEL READ
S1B		MDI 0174 OFF 17.000 2694COM ENG 7 THRUST RELAY 1
S1B		MDI 0175 OFF 17.000 2695COM ENG 8 THRUST RELAY 1
S1B		MDI 0377 ON 17.000 3197+1D21 ENG NO 8 CUTOFF
S1B		MDI 0389 ON 17.000 3204FUEL 2 LOX 3 SENSOR
S1B		MDI 2076 OFF 17.000 3744ENG NO 8 THRUST OK IND
S1B		DDA 2085 ON 17.000 5161VXK0006-603
	IU	MDO 0895 ON 17.004 2089CMD 1B LEVEL S DRY SIM B
S1B		MDI 2624 ON 17.012 2666CONAX NO. 2 ENG NO. 8
S1B		MDI 2625 ON 17.012 2667CONAX NO. 1 ENG NO. 8
S1B		MDI 2591 OFF 17.012 3875IGNITER ENG 8 SQUIB 2
S1B		MDI 2592 OFF 17.012 3876IGNITER ENG 8 SQUIB 1
S1B		MDI 0027 OFF 17.016 2846ENG 8 FUEL PREVLV OPN IN
S1B		MDI 0028 OFF 17.016 2847ENG 8 LOX PREVLV OPN IND
S1B		MDI 0147 ON 17.016 3027ENG 8 HYPERGOL INST IND
S1B		MDI 2187 ON 17.020 2596TCS PULSE OK
S1B		DDA 1031 OFF 17.032 2490VK0153-008
S1B	IU	MDI 2304 OFF 17.032 3764S-1B STAGE SEL
S1B	IU	MDI 2308 OFF 17.032 3768READ COMMAND
S1B		DDA 1047 OFF 17.040 2526VK0149-006
	IU	LDI 0983 OFF 17.044 0463SW SEL READ
	IU	LDI 1102 OFF 17.044 0516SW SEL READ
	IU	MDI 0816 ON 17.044 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 17.044 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 17.044 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 17.044 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON 17.044 3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 ON 17.044 3734SWITCH SELECTOR ZERO IND
S1B		DDA 2085 OFF 17.044 5161VXK0006-603
S1B		DDA 2090 OFF 17.044 5165VXK0005-603
	IU	LDI 1101 OFF 17.048 0515S-1B STAGE SELECTOR
S1B		DDA 1054 OFF 17.048 2533VK0150-007
	IU	MDI 0821 ON 17.048 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 1109 OFF 17.048 4048VK0001-012
S1B		LDO 0089 ON 17.048 4228ENG 5-8 CUTOFF
	IU	LDI 1091 OFF 17.052 0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF 17.052 5172VXK0008-603
S1B		DDA 1142 ON 17.052 5257VK0211-012
S1B		DDA 1145 ON 17.052 5260VK0212-012

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	IU	LDI 1091	OFF	17.056	0505BIT NO 1 VERIFY
	IU	LDI 1092	OFF	17.056	0508BIT NO 4 VERIFY
	IU	LDI 1094	OFF	17.056	0509BIT NO 5 VERIFY
	IU	LDI 1095	OFF	17.056	0510BIT NO 6 VERIFY
	IU	LDI 1097	OFF	17.056	0512BIT NO 8 VERIFY
S1B	IU	MDI 2306	ON	17.056	3766IU STAGE SEL
S1B		DDA 2093	OFF	17.056	5166VXK0008-603
S1B		DDA 2094	OFF	17.056	5168VXK0008-603
S1B		DDA 2096	OFF	17.056	5169VXK0008-603
S1B		DDA 2100	OFF	17.056	5173VXK0008-603
	IU	LDI 1098	ON	17.060	0513IU STAGE SELECTOR
	IU	MDI 0817	OFF	17.060	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	17.060	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	17.060	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823	OFF	17.060	3523REG CONT BIT 8 VERIFY IN
S1B		LDO 0174	OFF	17.060	4296COM ENG 7 THRUST RELAY 1
S1B		LDO 0175	OFF	17.060	4444COM ENG 8 THRUST RELAY 1
S1B		LDO 0180	OFF	17.060	4452COM ENG 5 THRUST RELAY 3
S1B		LDO 0183	OFF	17.060	4472COM ENG 8 THRUST RELAY 3
S1B		LDO 0189	OFF	17.060	4782COM ENG 6 THRUST RELAY 2
S1B		LDO 0191	OFF	17.060	4952COM ENG 8 THRUST RELAY 2
S1B		DDA 2087	ON	17.060	5163VXK0005-603
	IU	MDI 0782	OFF	17.064	3482SW SEL ZERO IND
	IU	MDI 0821	OFF	17.064	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	17.064	3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1091	ON	17.068	0506BIT NO 2 VERIFY
	IU	LDI 1092	ON	17.068	0507BIT NO 3 VERIFY
	IU	LDI 1093	ON	17.068	0508BIT NO 4 VERIFY
	IU	LDI 1095	ON	17.068	0510BIT NO 6 VERIFY
	IU	LDI 1096	ON	17.068	0511BIT NO 7 VERIFY
	IU	LDI 1097	ON	17.068	0512BIT NO 8 VERIFY
S1B		DDA 2086	OFF	17.068	5162VXK0003-603
S1B		DDA 2093	ON	17.068	5166VXK0008-603
S1B		DDA 2094	ON	17.068	5167VXK0008-603
S1B		DDA 2095	ON	17.068	5168VXK0008-603
S1B		DDA 2098	ON	17.068	5171VXK0008-603
S1B		DDA 2099	ON	17.068	5172VXK0008-603
S1B		DDA 1023	OFF	17.080	2482VK0178-008
S1B		DDA 1026	OFF	17.084	2485VK0175-005
	IU	LDO 0615	OFF	17.104	4382ENG NO 5 THRUST OK NO 3
	IU	LDO 0764	OFF	17.116	4888ENG NO. 6 THRUST OK NO.2
	IU	LDO 0811	OFF	17.128	4634ENG NO. 8 THRUST OK NO.1
	IU	LDO 0814	OFF	17.128	4635ENG NO. 8 THRUST OK NO.2
	IU	LDO 0833	OFF	17.136	4636ENG NO. 8 THRUST OK NO.3
S1B		LDO 0365	ON	17.176	4269+1D11 ENG NO.4 CUTOFF

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S18		LDO 0369 ON	17.176	4273+1D11 ENG NO.8 CUTOFF
S18		LDO 0377 ON	17.176	4281+1D21 ENG NO 8 CUTOFF
S18		LDO 0027 OFF	17.188	4167ENG 8 FUEL PREVLY OPN IN
S18		LDO 0028 OFF	17.188	4168ENG 8 LOX PREVLY OPN IND
S18		LDO 0147 ON	17.224	4586ENG 8 HYPERGOL INST IND
S18		LDO 0365 OFF	17.232	4269+1D11 ENG NO.4 CUTOFF
S18		LDO 0365 ON	17.244	4269+1D11 ENG NO.4 CUTOFF
S18		LDO 0365 OFF	17.292	4269+1D11 ENG NO.4 CUTOFF
S18	IO	MDI 2308 ON	17.388	3768READ COMMAND
S18 948	IO	-8- 021 READ	17.388	
	IO	LDI 0983 ON	17.392	0463SW SEL READ
	IO	LDI 1102 ON	17.392	0516SW SEL READ
S18		DDA 2085 ON	17.392	5161VXK0006-603
S18		DDA 2149 ON	17.400	4134VK0004-603
S18	IO	MDI 2306 OFF	17.428	3766IU STAGE SEL
S18	IO	MDI 2308 OFF	17.428	3768READ COMMAND
	IO	LDI 0983 OFF	17.436	0463SW SEL READ
	IO	LDI 1098 OFF	17.436	0513IU STAGE SELECTOR
	IO	LDI 1102 OFF	17.436	0516SW SEL READ
S18		DDA 2085 OFF	17.436	5161VXK0006-603
S18		DDA 2087 OFF	17.436	5163VXK0005-603
	IO	LDI 1091 OFF	17.444	0506BIT NO 2 VERIFY
	IO	MDI 0782 ON	17.444	3482SW SEL ZERO IND
	IO	MDI 0817 ON	17.444	3517REG CONT BIT 2 VERIFY IN
	IO	MDI 0818 ON	17.444	3518REG CONT BIT 3 VERIFY IN
	IO	MDI 0819 ON	17.444	3519REG CONT BIT 4 VERIFY IN
	IO	MDI 0821 ON	17.444	3521REG CONT BIT 6 VERIFY IN
	IO	MDI 0822 ON	17.444	3522REG CONT BIT 7 VERIFY IN
	IO	MDI 0823 ON	17.444	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2149 OFF	17.444	4134VK0004-603
S18		DDA 2093 OFF	17.444	5166VXK0008-603
S18		DDA 2098 OFF	17.444	5171VXK0008-603
S18		DDA 2099 OFF	17.444	5172VXK0008-603
	IO	LDI 1092 OFF	17.448	0507BIT NO 3 VERIFY
	IO	LDI 1093 OFF	17.448	0508BIT NO 4 VERIFY
	IO	LDI 1095 OFF	17.448	0510BIT NO 6 VERIFY
	IO	LDI 1096 OFF	17.448	0511BIT NO 7 VERIFY
	IO	LDI 1097 OFF	17.448	0512BIT NO 8 VERIFY
S18		DDA 2094 OFF	17.448	5167VXK0008-603
S18		DDA 2095 OFF	17.448	5168VXK0008-603
S18	IO	MDI 2305 ON	17.452	3765S-IVR STAGE SEL
S18		DDA 2086 ON	17.456	4134VK0004-603
	IO	MDI 1844 OFF	17.456	3928SW SEL ZERO
	IO	LDI 1099 ON	17.460	0514S-IVR STAGE SELECTOR
	IO	MDI 0816 OFF	17.460	3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0817 OFF	17.460	3517REG CONT BIT 2 VERIFY IN

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	IU	MDI 0819 OFF 17.460 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF 17.460 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON 17.460 5164VXK0005-603
	IU	LDI 1090 ON 17.468 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 17.468 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 17.468 0508BIT NO 4 VERIFY
	IU	LDI 1097 ON 17.468 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 17.468 5166VXK0008-603
S1B		DDA 2099 ON 17.468 5172VXK0008-603
S1B		DDA 2100 ON 17.468 5173VXK0008-603
S4B		LDQ 1844 OFF 17.564 4535SW SEL ZERO
	IU	LDQ 0776 OFF 17.600 4900ENG NO. 7 THRUST OK NO.1
S1B	IU	MDI 2308 ON 17.604 3768READ COMMAND
S1B S4B	IU	-2- 164 READ 17.604
S4B		MDO 1729 OFF 17.608 2228DIRECT VENT BYPASS ON
S4B		MDO 1730 OFF 17.608 2229PWR XFER BYPASS ON
S4B		MDO 1732 OFF 17.608 2230ORDNANCE SYS BYPASS ON
S4B		MDO 1733 OFF 17.608 2231APS SYSTEM BYPASS ON
S4B		MDI 1668 OFF 17.608 3060ULL ROCKET PLT RLY RESET
S4B		MDI 1966 OFF 17.608 3967READY FOR LAUNCH
S1B		DDA 2085 ON 17.608 5161VXK0006-603
	IU	LDI 0983 ON 17.612 0463SW SEL READ
	IU	LDI 1102 ON 17.612 0516SW SEL READ
S1B		MDO 1317 OFF 17.612 2154S-IVB SYSTEM READY BYPAS
S1B		MDI 0043 OFF 17.612 2861S-IVB SYSTEMS READY IND
S1B		MDI 0078 OFF 17.612 2958SIVB READY TO LAUNCH IND
S1B		MDI 0463 OFF 17.612 3276S-IVB READY FOR LAUNCH
S4B		MDI 1947 OFF 17.612 3953S-IVB PREP COMPLETE
S1B		DDA 2029 ON 17.612 4080VXK0128-404
S1B	IU	MDI 2305 OFF 17.644 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 17.644 3768READ COMMAND
S1B		MDI 2187 OFF 17.648 2596TCS PULSE OK
	IU	LDI 0983 OFF 17.652 0463SW SEL READ
	IU	LDI 1099 OFF 17.652 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 17.652 0516SW SEL READ
S4B		MDI 1844 ON 17.652 3928SW SEL ZERO
S1B		DDA 2085 OFF 17.652 5161VXK0006-603
S1B		DDA 2088 OFF 17.652 5164VXK0005-603
	IU	MDI 0816 ON 17.656 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 17.656 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 17.656 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON 17.656 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF 17.660 0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF 17.660 5172VXK0008-603
	IU	LDI 1090 OFF 17.664 0505BIT NO 1 VERIFY

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	IU	LDI 1093 OFF 17.664 0508BIT NO 4 VERIFY
	IU	LDI 1097 OFF 17.664 0512BIT NO 8 VERIFY
S1B		LDO 0043 OFF 17.664 4182S-IVB SYSTEMS READY IND
S1B		DDA 2093 OFF 17.664 5166VXK0008-603
S1B		DDA 2100 OFF 17.664 5173VXK0008-603
S1B	IU	MDI 2306 ON 17.668 3766IU STAGE SEL
S1B		DDA 2029 OFF 17.668 4080VXK0128-404
	IU	MDI 0817 OFF 17.672 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 17.672 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822 OFF 17.672 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 17.672 3523REG CONT BIT 8 VERIFY IN
S1B		LDO 0078 OFF 17.672 4217SIVB READY TO LAUNCH IND
	IU	LDI 1091 ON 17.676 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 17.676 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 17.676 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 17.676 0509BIT NO 5 VERIFY
	IU	LDI 1096 ON 17.676 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 17.676 0512BIT NO 8 VERIFY
	IU	LDI 1098 ON 17.676 0513IU STAGE SELECTOR
	IU	MDI 0782 OFF 17.676 3482SW SEL ZERO IND
	IU	MDI 0818 ON 17.676 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822 ON 17.676 3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2086 OFF 17.676 5162VXK0003-603
S1B		DDA 2087 ON 17.676 5163VXK0005-603
S1B		DDA 2093 ON 17.676 5166VXK0008-603
S1B		DDA 2094 ON 17.676 5167VXK0008-603
S1B		DDA 2095 ON 17.676 5168VXK0008-603
S1B		DDA 2096 ON 17.676 5171VXK0008-603
S1B		DDA 2099 ON 17.676 5172VXK0008-603
	IU	LDI 1092 OFF 17.688 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 17.688 0508BIT NO 4 VERIFY
S1B		DDA 2094 OFF 17.688 5167VXK0008-603
S1B		DDA 2095 OFF 17.688 5168VXK0008-603
S1B		DDA 2098 OFF 17.688 5171VXK0008-603
	IU	LDI 1095 OFF 17.692 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 17.692 0511BIT NO 7 VERIFY
S1B	IU	MDI 2306 OFF 17.700 3766IU STAGE SEL
S1B	IU	MDI 2307 OFF 17.700 3767IU STAGE SEL
S1B S4B	IU	-3- 175 RESET 17.700
	IU	MDI 0817 OFF 17.704 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0823 ON 17.704 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1103 ON 17.708 0517RESET COMMAND
	IU	MDI 0782 ON 17.708 3482SW SEL ZERO IND
S1B		DDA 2084 ON 17.708 5160VXK0007-603
S1B		DDA 2086 ON 17.708 5162VXK0003-603
S1B		DDA 2099 OFF 17.708 5172VXK0008-603

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	IU	LDI 1091 OFF 17.712 0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF 17.712 0512BIT NO 8 VERIFY
	IU	LDI 1098 OFF 17.712 0513IU STAGE SELECTOR
S1B	IU	MDI 2306 ON 17.712 3766IU STAGE SEL
S1B	IU	MDI 2307 OFF 17.712 3767RESET COMMAND
S1B		DDA 2087 OFF 17.712 5163VXK0005-603
S1B		DDA 2093 OFF 17.712 5166VXK0008-603
	IU	LDI 1098 ON 17.716 0513IU STAGE SELECTOR
S1B		DDA 2087 ON 17.716 5163VXK0005-603
S4B		LDO 1668 OFF 17.720 4743ULL ROCKET PLT RLY RESET
	IU	MDI 0817 OFF 17.724 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 17.724 3518REG CONT BIT 3 VERIFY IN
S1B		DDA 2093 ON 17.724 5166VXK0008-603
S1B		DDA 2094 ON 17.724 5167VXK0008-603
	IU	LDI 1091 ON 17.728 0506BIT NO 2 VERIFY
	IU	LDI 1097 ON 17.728 0512BIT NO 8 VERIFY
	IU	LDI 1103 OFF 17.728 0517RESET COMMAND
	IU	MDI 0782 OFF 17.728 3482SW SEL ZERO IND
	IU	MDI 0816 OFF 17.728 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF 17.728 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 17.728 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 17.728 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 17.728 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 17.728 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 17.728 3523REG CONT BIT 8 VERIFY IN
S4B		LDO 1947 OFF 17.728 4681S-IVB PREP COMPLETE
S4B		LDO 1966 OFF 17.728 4695READY FOR LAUNCH
S1B		DDA 2084 OFF 17.728 5160VXK0007-603
S1B		DDA 2094 ON 17.732 5167VXK0008-603
S1B		DDA 2100 ON 17.732 5173VXK0008-603
	IU	LDI 1090 ON 17.736 0505BIT NO 1 VERIFY
	IU	LDI 1092 ON 17.736 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 17.736 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 17.736 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 17.736 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 17.736 0511BIT NO 7 VERIFY
S1B		DDA 2086 OFF 17.736 5162VXK0003-603
S1B		DDA 2093 OFF 17.736 5166VXK0008-603
S1B		DDA 2095 ON 17.736 5168VXK0008-603
S1B		DDA 2096 ON 17.736 5169VXK0008-603
	IU	LDI 1097 OFF 17.740 0512BIT NO 8 VERIFY
S4B		LDO 1844 ON 17.744 4535SW SEL ZERO
S1B		DDA 1971 ON 17.740 4570VXK0008-079
S1B		LDI 0087 ON 17.764 0047LOX PREV LV 8 CLOSED IND
S1B		DDA 2174 OFF 17.700 5118VXK0012-603

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TEST SIM FLT MAL OAT RUN /3

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S1B		DDA 2124 ON	17.968	4118VR0030-602
S1B	IU	MDI 2308 ON	17.988	3768READ COMMAND
S1B	IU	-3- 200 READ	17.988	
	IU	LDI 0983 ON	17.992	0463SW SEL READ
	IU	LDI 1102 ON	17.992	0516SW SEL READ
S1B		DDA 2085 ON	17.992	5161VXK0006-603
S1B		DDA 2149 ON	18.000	4134VXK0004-603
S1B		MDI 2187 ON	18.020	3506T2- PULSE IN
S1B	IU	MDI 2306 OFF	18.032	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	18.032	3768READ COMMAND
	IU	LDI 1098 OFF	18.036	0513IU STAGE SELECTOR
S1B		DDA 2087 OFF	18.036	5163VXK0005-603
	IU	LDI 0983 OFF	18.044	0463SW SEL READ
	IU	LDI 1102 OFF	18.044	0516SW SEL READ
	IU	MDI 0782 ON	18.044	3482SW SEL ZERO IND
	IU	MDI 0816 ON	18.044	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	18.044	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	18.044	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	18.044	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	18.044	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	18.044	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	18.044	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2085 OFF	18.044	5161VXK0006-603
	IU	LDI 1091 OFF	18.052	0506BIT NO 2 VERIFY
S1B	IU	MDI 2305 ON	18.052	3765S-IVB STAGE SEL
S1B		DDA 2148 OFF	18.052	4134VXK0004-603
S1B		DDA 2086 ON	18.052	5162VXK0003-603
S1B		DDA 2088 OFF	18.052	5171VXK0001-603
S1B		DDA 2099 OFF	18.052	5172VXK0008-603
	IU	LDI 1090 OFF	18.056	0508BIT NO 1 VERIFY
	IU	LDI 1092 OFF	18.056	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	18.056	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	18.056	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	18.056	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	18.056	0511BIT NO 7 VERIFY
S4B		DDA 2094 OFF	18.056	5167VXK0008-603
S1B		DDA 2095 OFF	18.056	5168VXK0008-603
S1B		DDA 2096 OFF	18.056	5169VXK0008-603
S1B		DDA 2100 OFF	18.056	5170VXK0001-603
	IU	LDI 1099 ON	18.060	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	18.060	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	18.060	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	18.060	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	18.060	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF	18.060	3523REG CONT BIT 8 VERIFY IN

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S10		MDI 0816 ON	18.060	5164VXK0005-603
	IO	MDI 0819 ON	18.064	3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0820 OFF	18.064	3519REG CONT BIT 4 VERIFY IN
	IO	MDI 1091 ON	18.068	3520REG CONT BIT 5 VERIFY IN
	IO	LDI 1091 ON	18.068	0506BIT NO 2 VERIFY
	IO	LDI 1092 ON	18.068	0507BIT NO 3 VERIFY
	IO	LDI 1094 OFF	18.068	0509BIT NO 5 VERIFY
	IO	LDI 1097 ON	18.068	0512BIT NO 8 VERIFY
S11		DDA 2093 ON	18.068	5166VXK0008-603
S12		DDA 2096 ON	18.068	5169VXK0008-603
S13		DDA 2098 ON	18.068	5171VXK0008-603
S14		DDA 2099 ON	18.068	5172VXK0008-603
S43		LDI 1844 OFF	18.192	4535SW SEL ZERO
S15	IO	MDI 2308 ON	18.288	3768READ COMMAND
S16	IO	-2- 151 READ	18.288	
	IO	LDI 0983 ON	18.292	0463SW SEL READ
	IO	LDI 1102 ON	18.292	0516SW SEL READ
S17		MDI 2085 ON	18.296	5161VXK0006-603
S44		MDI 2647 OFF	18.296	2702LOX PREVALVE CLOSED
S45		MDI 2648 OFF	18.296	2703LH PREVALVE CLOSED
S18		MDI 2029 ON	18.296	4080VK0128-404
S19	IO	MDI 2305 OFF	18.328	3765S-IVB STAGE SEL
S20	IO	MDI 2308 OFF	18.328	3768READ COMMAND
	IO	LDI 0983 OFF	18.336	0463SW SEL READ
	IO	LDI 1099 OFF	18.336	0514S-IVB STAGE SELECTOR
	IO	LDI 1102 OFF	18.336	0516SW SEL READ
S46		MDI 1844 ON	18.336	3928SW SEL ZERO
S21		MDI 2085 OFF	18.336	5162VXK0006-603
S22		MDI 2088 OFF	18.336	5164VXK0005-603
	IO	MDI 0817 ON	18.340	3517REG CONT BIT 2 VERIFY IN
	IO	MDI 0818 ON	18.340	3518REG CONT BIT 3 VERIFY IN
	IO	MDI 0820 ON	18.340	3520REG CONT BIT 5 VERIFY IN
	IO	MDI 0823 ON	18.340	3523REG CONT BIT 8 VERIFY IN
S23		DDA 2029 OFF	18.340	4080VK0128-404
	IO	LDI 1091 OFF	18.344	0506BIT NO 2 VERIFY
S24		DDA 2093 OFF	18.344	5166VXK0008-603
S25		DDA 2098 OFF	18.344	5171VXK0008-603
S26		DDA 2099 OFF	18.344	5172VXK0008-603
	IO	LDI 1092 OFF	18.348	0507BIT NO 3 VERIFY
	IO	LDI 1094 OFF	18.348	0509BIT NO 5 VERIFY
	IO	LDI 1097 OFF	18.348	0512BIT NO 8 VERIFY
S27	IO	MDI 2304 ON	18.348	3764S-IB STAGE SEL
S28		DDA 2096 OFF	18.348	5169VXK0008-603
	IO	MDI 0816 OFF	18.356	3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0817 OFF	18.356	3517REG CONT BIT 2 VERIFY IN
	IO	MDI 0819 OFF	18.356	3519REG CONT BIT 4 VERIFY IN

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10	MDI 0820 OFF	18.356	3520REG CONT BIT 5 VERIFY IN
10	MDI 0821 OFF	18.356	3521REG CONT BIT 6 VERIFY IN
10	MDI 0823 OFF	18.356	3523REG CONT BIT 8 VERIFY IN
810	MDI 2065 OFF	18.356	3734SWITCH SELECTOR ZERO IND
10	LDI 1090 ON	18.360	0505BIT NO 1 VERIFY
10	LDI 1091 ON	18.360	0506BIT NO 2 VERIFY
10	LDI 1093 ON	18.360	0508BIT NO 4 VERIFY
10	LDI 1094 ON	18.360	0509BIT NO 5 VERIFY
10	LDI 1095 ON	18.360	0510BIT NO 6 VERIFY
10	LDI 1096 ON	18.360	0511BIT NO 7 VERIFY
10	LDI 1097 ON	18.360	0512BIT NO 8 VERIFY
10	LDI 1101 ON	18.360	0515S-IB STAGE SELECTOR
10	MDI 0822 OFF	18.360	3522REG CONT BIT 7 VERIFY IN
810	DDA 2090 ON	18.360	5165VXK0005-603
810	DDA 2093 ON	18.360	5166VXK0008-603
810	DDA 2094 ON	18.360	5167VXK0008-603
810	DDA 2095 ON	18.360	5168VXK0008-603
810	DDA 2096 ON	18.360	5169VXK0008-603
810	DDA 2099 ON	18.360	5172VXK0008-603
810	DDA 2100 ON	18.360	5173VXK0008-603
810	MDI 2304 OFF	18.380	3764S-IB STAGE SEL
810	MDI 2307 ON	18.380	3767RESET COMMAND
810 040	-1- 004 RESET	18.380	
10	LDI 1103 ON	18.384	0517RESET COMMAND
810	DDA 2084 ON	18.384	5160VXK0007-603
10	MDI 0816 ON	18.388	3516REG CONT BIT 1 VERIFY IN
10	MDI 0817 ON	18.388	3517REG CONT BIT 2 VERIFY IN
10	MDI 0819 ON	18.388	3519REG CONT BIT 4 VERIFY IN
10	MDI 0820 ON	18.388	3520REG CONT BIT 5 VERIFY IN
10	MDI 0821 ON	18.388	3521REG CONT BIT 6 VERIFY IN
10	MDI 0822 ON	18.388	3522REG CONT BIT 7 VERIFY IN
10	MDI 0823 ON	18.388	3523REG CONT BIT 8 VERIFY IN
810	MDI 2065 ON	18.388	3734SWITCH SELECTOR ZERO IND
810	DDA 2099 OFF	18.392	5172VXK0008-603
10	LDI 1090 OFF	18.396	0505BIT NO 1 VERIFY
10	LDI 1091 OFF	18.396	0506BIT NO 2 VERIFY
10	LDI 1094 OFF	18.396	0509BIT NO 5 VERIFY
10	LDI 1097 OFF	18.396	0512BIT NO 8 VERIFY
10	LDI 1101 OFF	18.396	0515S-IB STAGE SELECTOR
810	MDI 2304 ON	18.396	3764S-IB STAGE SEL
810	MDI 2307 OFF	18.396	3767RESET COMMAND
810	DDA 2090 OFF	18.396	5165VXK0005-603
810	DDA 2093 OFF	18.396	5166VXK0008-603
810	DDA 2094 OFF	18.396	5167VXK0008-603
810	DDA 2095 OFF	18.396	5168VXK0008-603
810	DDA 2096 OFF	18.396	5169VXK0008-603

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S1B		DDA 2100 OFF 18.396 5173VXK0008-603
IU		LDI 1093 OFF 18.400 0508BIT NO 4 VERIFY
IU		LDI 1095 OFF 18.400 0510BIT NO 6 VERIFY
IU		LDI 1096 OFF 18.400 0511BIT NO 7 VERIFY
IU		LDI 1101 ON 18.400 0515S-1B STAGE SELECTOR
S1		DDA 2078 ON 18.400 5165VXK0005-603
IU		MDI 0816 OFF 18.408 3516REG CONT BIT 1 VERIFY IN
IU		MDI 0817 OFF 18.408 3517REG CONT BIT 2 VERIFY IN
IU		MDI 0819 OFF 18.408 3519REG CONT BIT 4 VERIFY IN
IU		MDI 0820 OFF 18.408 3520REG CONT BIT 5 VERIFY IN
IU		MDI 0821 OFF 18.408 3521REG CONT BIT 6 VERIFY IN
IU		MDI 0822 OFF 18.408 3522REG CONT BIT 7 VERIFY IN
IU		MDI 0823 OFF 18.408 3523REG CONT BIT 8 VERIFY IN
S1		MDI 2065 OFF 18.408 3734SWITCH SELECTOR ZERO IND
IU		LDI 1103 OFF 18.412 0517RESET COMMAND
IU		MDI 0816 ON 18.412 3516REG CONT BIT 1 VERIFY IN
IU		MDI 0818 OFF 18.412 3518REG CONT BIT 3 VERIFY IN
IU		MDI 0819 ON 18.412 3519REG CONT BIT 4 VERIFY IN
IU		MDI 0820 ON 18.412 3520REG CONT BIT 5 VERIFY IN
IU		MDI 0822 ON 18.412 3522REG CONT BIT 7 VERIFY IN
IU		MDI 0823 ON 18.412 3523REG CONT BIT 8 VERIFY IN
S1		DDA 2084 OFF 18.412 5160VXK0007-603
IU		MDI 0821 ON 18.416 3521REG CONT BIT 6 VERIFY IN
S1		DDA 2096 ON 18.416 5171VXK0008-603
S1		DDA 2099 ON 18.416 5172VXK0008-603
IU		LDI 1091 ON 18.420 0506BIT NO 2 VERIFY
IU		LDI 1092 ON 18.420 0507BIT NO 3 VERIFY
140		LDI 1844 ON 18.456 4535SW SEL ZERO
S1		MDI 2308 ON 18.496 3768READ COMMAND
S1 140		-1- 371 READ 18.496
IU		LDI 0983 ON 18.500 0463SW SEL READ
IU		LDI 1102 ON 18.500 0516SW SEL READ
S1		DDA 2085 ON 18.500 5161VXK0006-603
S1B		MDI 2219 ON 18.504 2608ENG 1'4 CUTOFF
S1		DDA 1109 ON 18.504 4048VK0001-012
S1	IU	MDI 2304 OFF 18.528 3764S-1B STAGE SEL
S1	IU	MDI 2308 OFF 18.528 3768READ COMMAND
IU		LDI 0983 OFF 18.536 0463SW SEL READ
IU		LDI 1102 OFF 18.536 0516SW SEL READ
S1		DDA 1109 OFF 18.536 4048VK0001-012
S1		DDA 2085 OFF 18.536 5161VXK0006-603
S1		DDA 2090 OFF 18.536 5165VXK0005-603
IU		LDI 1101 OFF 18.540 0515S-1B STAGE SELECTOR
IU		MDI 0817 ON 18.540 3517REG CONT BIT 2 VERIFY IN
IU		MDI 0818 ON 18.540 3518REG CONT BIT 3 VERIFY IN
S1		MDI 2065 ON 18.540 3734SWITCH SELECTOR ZERO IND

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S1B		DDA 2100 OFF 18.596 5173VXK0008-603
S1B	IU	MDI 2304 ON 18.616 3764S-IB STAGE SEL
S1B	IU	MDI 2307 OFF 18.616 3767RESET COMMAND
S1B		DDA 2090 ON 18.624 5165VXK0005-603
	IU	LDI 1101 ON 18.628 0515S-IB STAGE SELECTOR
	IU	LDI 1103 OFF 18.628 0517RESET COMMAND
	IU	MDI 0816 OFF 18.628 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 18.628 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 18.628 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF 18.628 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF 18.628 3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 OFF 18.628 3734SWITCH SELECTOR ZERO IND
S1B		DDA 2084 OFF 18.628 5160VXK0007-603
	IU	MDI 0816 ON 18.632 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON 18.632 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 18.632 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 18.632 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 18.632 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 18.632 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 18.632 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2124 ON 18.632 4118VR0030-602
S1B		DDA 2098 ON 18.632 5167VXK0006-603
S1B		DDA 2099 ON 18.632 5172VXK0008-603
	IU	LDI 1091 ON 18.636 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 18.636 0508BIT NO 4 VERIFY
	IU	LDI 1095 ON 18.636 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 18.636 0511BIT NO 7 VERIFY
S1B		DDA 2095 ON 18.636 5168VXK0008-603
S1B		MDI 2187 OFF 18.648 2596TCS PULSE OK
S1B		LDI 0086 ON 18.844 0046FUEL PREVLY 8 CLOSED IND
S1B		DDA 1099 ON 18.844 4038VK0090-009
	IU	MDI 0635 ON 18.964 3335EDSRG ZERO TORQUE COMM
S1B	IU	MDI 2308 ON 18.984 3768READ COMMAND
S1B S4B	IU	-1- 225 READ 18.984
	IU	LDI 0983 ON 18.992 0463SW SEL READ
	IU	LDI 1102 ON 18.992 0516SW SEL READ
S1B		DDA 2085 ON 18.992 5161VXK0006-603
S1B	IU	MDI 2304 OFF 19.016 3764S-IB STAGE SEL
S1B	IU	MDI 2308 OFF 19.016 3768READ COMMAND
S1B		MDI 2187 ON 19.020 2596TCS PULSE OK
	IU	LDI 0983 OFF 19.028 0463SW SEL READ
	IU	LDI 1101 OFF 19.028 0515S-IB STAGE SELECTOR
	IU	LDI 1102 OFF 19.028 0516SW SEL READ
	IU	MDI 0817 ON 19.028 3517REG CONT BIT 2 VERIFY IN
1		DDA 1109 OFF 19.028 4048VK0001-012

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S1B		DDA 2085 OFF 19.028 5161VXK0006-603
S1B		DDA 2090 OFF 19.028 5165VXK0005-603
	IU	MDI 0819 ON 19.032 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON 19.032 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 19.032 3522REG CONT BIT 7 VERIFY IN
S1B		MDI 2065 ON 19.032 3734SWITCH SELECTOR ZERO IND
	IU	LDI 1091 OFF 19.036 0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF 19.036 5172VXK0008-603
	IU	LDI 1093 OFF 19.040 0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF 19.040 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 19.040 0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF 19.040 5167VXK0008-603
S1B		DDA 2095 OFF 19.040 5168VXK0008-603
S1B		DDA 2124 OFF 20.300 4118VR0030-602
S1B		MDI 2187 OFF 19.648 2596TCS PULSE OK
S1B		MDI 2187 ON 20.020 2596TCS PULSE OK
	S4B	MDI 1710 ON 20.056 3088LOX PREVALVE OPEN
	S4B	MDI 1711 ON 20.108 4771LOX PREVALVE OPEN
	S4B	LDO 1710 ON 20.108 4771LOX PREVALVE OPEN
	S4B	LDO 1711 ON 20.108 4772LH PREVALVE OPEN
S1B		DDA 2124 ON 20.300 4118VR0030-602
S1B		DDA 2124 OFF 20.468 4118VR0030-602
S1B		MDI 2187 OFF 20.648 2596TCS PULSE OK
S1B		DDA 2124 ON 20.716 4118VR0030-602
S1B		MDI 2187 ON 21.020 2596TCS PULSE OK
S1B		DDA 2124 OFF 21.384 4118VR0030-602
S1B		DDA 2124 ON 21.548 4118VR0030-602
S1B		MDI 2187 OFF 21.648 2596TCS PULSE OK
S1B		MDI 2187 ON 22.020 2596TCS PULSE OK
S1B		MDI 2187 OFF 22.648 2596TCS PULSE OK
S1B		MDI 2187 ON 23.020 2596TCS PULSE OK
S1B		MDI 2187 OFF 23.648 2596TCS PULSE OK
	IU	MDI 2236 ON 23.964 2605RAMP NO 1 ZERO
	IU	MDI 2238 ON 23.968 2607RAMP NO 3 ZERO
	IU	MDI 2237 ON 23.972 2606RAMP NO 2 ZERO
	IU	MDI 0635 OFF 23.976 3335EDSRG ZERO TORQUE COMM
S1B		MDI 2187 ON 24.020 2596TCS PULSE OK
S1B		DDA 2126 ON 24.048 4120VR0028-602
S1B		DDA 2125 ON 24.216 4119VR0029-602
S1B		MDI 2187 OFF 24.648 2596TCS PULSE OK
	IU	MDO 1904 OFF 24.936 1601EDS RG ROLL AXIS SEL ON
	IU	MDI 0632 OFF 24.936 3332EDSRG ROLL AXIS SELECT
	IU	LDO 0632 OFF 25.004 4399EDSRG ROLL AXIS SELECT
S1B		MDI 2187 ON 25.020 2596TCS PULSE OK
S1B		MDI 2187 OFF 25.648 2596TCS PULSE OK
S1B		MDI 2187 ON 26.020 2596TCS PULSE OK

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S1B		MDI 2187 OFF 26.648 2596TCS PULSE OK
S1B	IU	MDI 2304 OFF 26.738 3764S-IB STAGE SEL
	IU	MDI 0822 OFF 26.740 3522REG CONT BIT 7 VERIFY IN
S1B		MDI 2065 OFF 26.740 3734SWITCH_SELECTOR ZERO IND
S1B		DDA 2090 OFF 26.740 5165VXK0005-603
	IU	LDI 1101 ON 26.744 0515S-IB STAGE SELECTOR
	IU	MDI 0817 OFF 26.744 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 26.744 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 26.744 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF 26.744 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON 26.748 5166VXK0008-603
S1B		DDA 2094 ON 26.748 5167VXK0008-603
S1B		DDA 2098 ON 26.748 5171VXK0008-603
S1B		DDA 2099 ON 26.748 5172VXK0008-603
	IU	LDI 1091 ON 26.752 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 26.752 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 26.752 0508BIT NO 4 VERIFY
	IU	LDI 1096 ON 26.752 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 26.752 0512BIT NO 8 VERIFY
S1B	IU	MDI 2304 OFF 26.768 3764S-IB STAGE SEL
S1B	IU	MDI 2307 OFF 26.768 3767RESET COMMAND
S1B	IU	-1- DDA 2084 ON 26.772 5160VXK0007-603
	IU	LDI 1103 ON 26.776 0517RESET COMMAND
	IU	MDI 0817 ON 26.776 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 26.776 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 26.776 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON 26.776 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 26.776 3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 ON 26.776 3734SWITCH_SELECTOR ZERO IND
S1B		DDA 2090 OFF 26.776 5165VXK0005-603
	IU	LDI 1101 OFF 26.780 0515S-IB STAGE SELECTOR
	IU	LDI 1091 OFF 26.784 0506BIT NO 2 VERIFY
S1B	IU	MDI 2304 ON 26.784 3764S-IB STAGE SEL
S1B	IU	MDI 2307 OFF 26.784 3767RESET COMMAND
S1B		DDA 2093 OFF 26.784 5166VXK0008-603
S1B		DDA 2098 OFF 26.784 5171VXK0008-603
S1B		DDA 2099 OFF 26.784 5172VXK0008-603
	IU	LDI 1092 OFF 26.788 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 26.788 0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF 26.788 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 26.788 0512BIT NO 8 VERIFY
S1B		DDA 2094 OFF 26.788 5167VXK0008-603
	IU	LDI 1101 ON 26.792 0515S-IB STAGE SELECTOR
S1B		DDA 2084 OFF 26.792 5160VXK0007-603
S1B		DDA 2090 ON 26.792 5165VXK0005-603

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	IU	LDI 1103	OFF	26.796	0517RESET COMMAND
	IU	MDI 0816	OFF	26.796	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	OFF	26.796	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	26.796	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820	OFF	26.796	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	OFF	26.796	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	26.796	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	26.796	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065	OFF	26.796	3734SWITCH SELECTOR ZERO IND
	IU	LDI 1090	ON	26.800	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	26.800	0506BIT NO 2 VERIFY
	IU	LDI 1094	ON	26.800	0509BIT NO 5 VERIFY
	IU	LDI 1095	ON	26.800	0510BIT NO 6 VERIFY
	IU	MDI 0816	ON	26.800	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822	0	26.800	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	ON	26.800	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2095	ON	26.800	5168VXK0008-603
S1B		DDA 2096	ON	26.800	5169VXK0008-603
S1B		DDA 2099	ON	26.800	5172VXK0008-603
S1B		DDA 2100	ON	26.800	5173VXK0008-603
S1B	IU	MDI 2308	ON	26.900	3768READ COMMAND
S1B	IU			26.900	
S1B		MDI 0378	ON	26.904	2959FUEL DEPLN SENSOR CUTOFF
S1B		MDI 2583	ON	26.904	3231FUEL OR LOX DEPLETED
	IU	LDI 0983	ON	26.908	0463SW SEL READ
	IU	LDI 1102	ON	26.908	0516SW SEL READ
S1B		MDI 0171	OFF	26.908	2691COM ENG 4 THRUST RELAY 1
S1B		MDI 0176	OFF	26.908	2696COM ENG 1 THRUST RELAY 3
S1B		MDI 0178	OFF	26.908	2698COM ENG 3 THRUST RELAY 3
S1B		MDI 0179	OFF	26.908	2699COM ENG 4 THRUST RELAY 3
S1B		MDI 0185	OFF	26.908	3055COM ENG 2 THRUST RELAY 2
S1B		MDI 0187	OFF	26.908	3057COM ENG 4 THRUST RELAY 2
	IU	MDI 0603	OFF	26.908	3303ENG NO 1 THRUST OK NO 3
	IU	MDI 0605	OFF	26.908	3305ENG NO 2 THRUST OK NO 2
	IU	MDI 0609	OFF	26.908	3309ENG NO 3 THRUST OK NO 3
	IU	MDI 0610	OFF	26.908	3310ENG NO 4 THRUST OK NO 1
	IU	MDI 0611	OFF	26.908	3311ENG NO 4 THRUST OK NO 2
	IU	MDI 0612	OFF	26.908	3312ENG NO 4 THRUST OK NO 3
S1B		MDI 2581	ON	26.908	3865OUTBD CUTOFF
S1B		DDA 2085	ON	26.908	5161VXK0006-603
S1B		MDI 0373	ON	26.912	3193+1021 ENG NO.4 CUTOFF
S1B		MDI 2072	OFF	26.916	3740ENG NO 4 THRUST OK IND
S1B		MDI 2599	OFF	26.920	2641IGNITER ENG 4 SQUIB 2
S1B		MDI 2600	OFF	26.920	2642IGNITER ENG 4 SQUIB 1
S1B		MDI 2632	ON	26.920	2674CONAX NO. 2 ENG NO. 4

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S1B		MDI 2633 ON	26.920	2675CONAX NO. 1 ENG NO. 4
S1B		MDI 0019 OFF	26.924	2838ENG 4 FUEL PREV LV OPN IN
S1B		MDI 0020 OFF	26.924	2839ENG 4 LOX PREV LV OPN IND
S1B		MDI 0143 ON	26.924	3023ENG 4 HYPERGOL INST IND
S1B	IU	MDI 2304 OFF	26.940	3764S-IB STAGE SEL
S1B	IU	MDI 2308 OFF	26.940	3768READ COMMAND
	IU	LDI 0983 OFF	26.952	0463SW SEL READ
	IU	LDI 1101 OFF	26.952	0515S-IB STAGE SELECTOR
	IU	LDI 1102 OFF	26.952	0516SW SEL READ
S1B		DDA 1049 OFF	26.952	2528VK0145-004
	IU	MDI 0816 ON	26.952	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	26.952	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	26.952	3520REG CONT BIT 5 VERIFY IN
S1B		MDI 2065 ON	26.952	3734SWITCH SELECTOR ZERO IND
S1B		DDA 1109 OFF	26.952	4046VK0001-012
S1B		DDA 2085 OFF	26.952	5161VXK0006-603
S1B		DDA 2090 OFF	26.952	5165VXK0005-603
	IU	MDI 0821 ON	26.956	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1091 OFF	26.960	0506BIT NO 2 VERIFY
S1B		DDA 2096 OFF	26.960	5169VXK0008-603
S1B		DDA 2099 OFF	26.960	5172VXK0008-603
S1B		DDA 2100 OFF	26.960	5173VXK0008-603
	IU	LDI 1090 OFF	26.964	0505BIT NO 1 VERIFY
	IU	LDI 1094 OFF	26.964	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	26.964	0510BIT NO 6 VERIFY
S1B		DDA 1057 OFF	26.964	2536VK0144-004
S1B		DDA 2095 OFF	26.964	5168VXK0008-603
S1B		DDA 1141 ON	26.968	5256VK0214-012
S1B		DDA 1142 ON	26.968	5257VK0214-012
S1B		LDO 0378 ON	26.972	4282FUEL DEPLN SENSOR CUTOFF
S1B		DDA 1159 ON	26.976	5273VK0216-12
S1B		DDA 1160 ON	26.976	5274VK0215-12
S1B		DDA 1027 OFF	26.996	2486VK0174-004
S1B		DDA 1030 OFF	26.996	2489VK0171-001
S1B		DDA 1028 OFF	27.000	2487VK0173-003
S1B		LDO 0176 OFF	27.016	4445COM ENG 1 THRUST RELAY 3
S1B		LDO 0179 OFF	27.016	4451COM ENG 4 THRUST RELAY 3
S1B		MDI 2187 ON	27.020	2596TCS PULSE OK
S1B		LDO 0171 OFF	27.020	4291COM ENG 4 THRUST RELAY 1
S1B		LDO 0187 OFF	27.020	4600COM ENG 4 THRUST RELAY 2
S1B		LDO 0365 ON	27.024	4269+1D11 ENG NO.4 CUTOFF
	IU	LDO 0603 OFF	27.036	4370ENG NO 1 THRUST OK NO 3
	IU	LDO 0605 OFF	27.036	4372ENG NO 2 THRUST OK NO 2
	IU	LDO 0609 OFF	27.036	4376ENG NO 3 THRUST OK NO 3
	IU	LDO 0610 OFF	27.036	4377ENG NO 4 THRUST OK NO 1

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	IU	LDO 0612 OFF 27.036 4379ENG NO 4 THRUST OK NO 3
	IU	LDO 0373 ON 27.044 4277+1D21 ENG NO.4 CUTOFF
	IU	MDI 2304 ON 27.052 3764S-IB STAGE SEL
	IU	DDA 2090 ON 27.056 5165VXK0005-603
	IU	LDI 1101 ON 27.060 0515S-IB STAGE SELECTOR
	IU	MDI 0817 OFF 27.060 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 27.060 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 27.060 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 27.060 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 27.060 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 27.060 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 27.060 3523REG CONT BIT 8 VERIFY IN
S1B	IU	MDI 2065 OFF 27.060 3734SWITCH SELECTOR ZERO IND
	IU	MDI 0820 ON 27.064 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 27.064 3521REG CONT BIT 6 VERIFY IN
		DDA 2094 ON 27.064 5167VXK0008-603
S1B		DDA 2098 ON 27.064 5171VXK0008-603
S1B		DDA 2099 ON 27.064 5172VXK0008-603
	IU	LDI 1091 ON 27.068 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 27.068 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 27.068 0508BIT NO 4 VERIFY
	IU	LDI 1096 ON 27.068 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 27.068 0512BIT NO 8 VERIFY
S1B		LDO 0019 OFF 27.092 4159ENG 4 FUEL PREVLV OPN IN
S1B		LDO 0020 OFF 27.092 4160ENG 4 LOX PREVLV OPN IND
S1B	IU	MDI 2304 OFF 27.096 3764S-IB STAGE SEL
S1B	IU	MDI 2304 OFF 27.096 3764S-IB STAGE SEL
S1B S4B	IU	-1- 061 RESET 27.096
	IU	LDI 1103 ON 27.100 0517RESET COMMAND
S1B		LDO 0143 ON 27.100 4582ENG 4 HYPERGOL INST IND
		DDA 2090 OFF 27.104 5165VXK0005-603
	IU	LDI 1101 OFF 27.104 0515S-IB STAGE SELECTOR
	IU	MDI 0817 ON 27.104 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 27.104 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 27.104 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON 27.104 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 27.104 3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 ON 27.104 3734SWITCH SELECTOR ZERO IND
S1B		DDA 2090 OFF 27.104 5165VXK0005-603
	IU	LDI 1091 OFF 27.108 0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF 27.108 5172VXK0008-603
	IU	LDI 1092 OFF 27.112 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 27.112 0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF 27.112 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 27.112 0512BIT NO 8 VERIFY

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71	10	MDI 2304 ON	27.112	3764S-IB STAGE SEL
91	10	MDI 2307 OFF	27.112	3767RESET COMMAND
91		DDA 2093 OFF	27.112	5166VXK0008-603
91		DDA 2094 OFF	27.112	5167VXK0008-603
91		DDA 2098 OFF	27.112	5171VXK0008-603
	10	LDI 1101 ON	27.116	0515S-IB STAGE SELECTOR
91		DDA 2090 ON	27.116	5165VXK0005-603
	10	LDI 1103 OFF	27.120	0517RESET COMMAND
	10	MDI 0818 OFF	27.120	3518REG CONT BIT 3 VERIFY IN
91		MDI 2014 OFF	27.124	5169VXK0007-603
	10	LDI 1090 ON	27.124	0505BIT NO 1 VERIFY
	10	LDI 1091 ON	27.124	0506BIT NO 2 VERIFY
	10	LDI 1092 ON	27.124	0507BIT NO 3 VERIFY
	10	LDI 1093 ON	27.124	0508BIT NO 4 VERIFY
	10	LDI 1096 ON	27.124	0511BIT NO 7 VERIFY
	10	LDI 1097 ON	27.124	0512BIT NO 8 VERIFY
	10	MDI 0816 OFF	27.124	3516REG CONT BIT 1 VERIFY IN
	10	MDI 0817 OFF	27.124	3517REG CONT BIT 2 VERIFY IN
	10	MDI 0818 ON	27.124	3518REG CONT BIT 3 VERIFY IN
	10	MDI 0819 OFF	27.124	3519REG CONT BIT 4 VERIFY IN
	10	MDI 0821 OFF	27.124	3521REG CONT BIT 6 VERIFY IN
91		MDI 2065 OFF	27.124	3734SWITCH SELECTOR ZERO IND
91		DDA 2093 ON	27.124	5166VXK0008-603
91		DDA 2094 ON	27.124	5167VXK0008-603
91		DDA 2098 ON	27.124	5171VXK0008-603
91		DDA 2100 ON	27.124	5173VXK0008-603
	10	LDI 1094 ON	27.132	0509BIT NO 5 VERIFY
91		DDA 2095 ON	27.132	5168VXK0008-603
91		DDA 2096 ON	27.132	5169VXK0008-603
	10	LDI 1092 OFF	27.136	0507BIT NO 3 VERIFY
	10	LDI 1095 ON	27.136	0510BIT NO 6 VERIFY
	10	LDI 1097 OFF	27.136	0512BIT NO 8 VERIFY
91		DDA 2093 OFF	27.136	5166VXK0008-603
91		DDA 2094 OFF	27.136	5167VXK0008-603
91		DDA 2098 OFF	27.136	5171VXK0008-603
	10	LDI 1093 OFF	27.140	0508BIT NO 4 VERIFY
	10	LDI 1094 OFF	27.140	0511BIT NO 7 VERIFY
91	10	MDI 2308 ON	27.148	3768READ COMMAND
91	10	DDA 2085 ON	27.148	5161VXK0006-603
91	10	LDI 1102 ON	27.152	0516SW SEL READ
91	10	DDA 1109 ON	27.152	4048VK0001-012
91	10	MDI 2304 OFF	27.184	3764S-IB STAGE SEL
91	10	MDI 2308 OFF	27.184	3768READ COMMAND

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11		DDA 2085 OFF 27.192 5161VXK0006-603
	IU	LDI 0983 OFF 27.196 0463SW SEL READ
	IU	LDI 1101 OFF 27.196 0515S-IB STAGE SELECTOR
	IU	LDI 1102 OFF 27.196 0516SW SEL READ
	IU	MDI 0816 ON 27.196 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 27.196 3517REG CONT BIT 2 VERIFY IN
S1B		MDI 2065 ON 27.196 3734SWITCH SELECTOR ZERO IND
S1B		DDA 1199 OFF 27.196 4048VXK0001-012
S1B		DDA 2090 OFF 27.196 5165VXK0005-603
	IU	LDI 1091 OFF 27.200 0506BIT NO 2 VERIFY
	IU	MDI 0820 ON 27.200 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 27.200 3521REG CONT BIT 6 VERIFY IN
11B		DDA 2099 OFF 27.200 5172VXK0008-603
	IU	LDI 1090 OFF 27.204 0505BIT NO 1 VERIFY
	IU	LDI 1094 OFF 27.204 0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF 27.204 0510BIT NO 6 VERIFY
S1B		DDA 2095 OFF 27.204 5168VXK0008-603
S1B		DDA 2096 OFF 27.204 5169VXK0008-603
S1B		DDA 2100 OFF 27.204 5173VXK0008-603
S1B	IU	MDI 2305 ON 27.208 3765S-IVB STAGE SEL
	IU	MDI 0817 OFF 27.212 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 27.212 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF 27.212 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF 27.212 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 27.212 3928SW SEL ZERO
	IU	LDI 1090 ON 27.216 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 27.216 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 27.216 0507BIT NO 3 VERIFY
	IU	LDI 1097 ON 27.216 0512BIT NO 8 VERIFY
	IU	LDI 1099 ON 27.216 0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF 27.216 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0820 ON 27.216 3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2088 ON 27.216 5164VXK0005-603
S1B		DDA 2093 ON 27.216 5166VXK0008-603
S1B		DDA 2098 ON 27.216 5171VXK0008-603
S1B		DDA 2099 ON 27.216 5172VXK0008-603
S1B		DDA 2100 ON 27.216 5173VXK0008-603
S1B	IU	MDI 2305 OFF 27.236 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON 27.236 3767RESET COMMAND
S1B 149	IU	-2- 176 27.240
	IU	LDI 1103 ON 27.240 0517RESET COMMAND
S4B		MDI 1844 ON 27.240 3928SW SEL ZERO
S1B		DDA 2084 ON 27.240 5160VXK0007-603
	IU	LDI 1099 OFF 27.244 0514S-IVB STAGE SELECTOR
	IU	MDI 0816 ON 27.244 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 27.244 3517REG CONT BIT 2 VERIFY IN

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	IU	MDI 0818 ON	27.244	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0823 ON	27.244	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF	27.244	5164VXK0005-603
	IU	LDI 1091 OFF	27.252	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	27.252	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	27.252	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	27.252	5166VXK0008-603
S1B		DDA 2098 OFF	27.252	5171VXK0008-603
S1B		DDA 2099 OFF	27.252	5172VXK0008-603
S1B		DDA 211 OFF	27.252	5173VXK0008-603
	IU	LDI 1096 OFF	27.256	0505BIT NO 1 VERIFY
S1B	IU	MDI 2305 ON	27.256	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 OFF	27.256	3767RESET COMMAND
	IU	MDI 1004 OFF	27.264	3104FLT PRES+CST PER REL RST
S1B		DDA 2088 ON	27.264	5164VXK0005-603
	IU	LDI 1099 ON	27.268	0514S-IVR STAGE SELECTOR
	IU	MDI 0816 OFF	27.268	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	27.268	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	27.268	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822 OFF	27.268	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	27.268	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF	27.268	5160VXK0007-603
	IU	LDI 1103 OFF	27.272	0517RESET COMMAND
	IU	MDI 0816 ON	27.272	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	27.272	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	27.272	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	27.272	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	27.272	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	27.272	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2099 ON	27.272	5172VXK0008-603
	IU	LDI 1091 ON	27.276	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	27.276	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	27.276	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	27.276	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	27.276	0511BIT NO 7 VERIFY
S1B		DDA 2095 ON	27.276	5168VXK0008-603
S1B		DDA 2096 ON	27.276	5169VXK0008-603
S1B	IU	MDI 2308 ON	27.292	3768READ COMMAND
S1B S4B	IU	-2- 205 READ	27.292	
S4B		MDI 1734 ON	27.296	3110FLT PRES+CST PER REL RST
	IU	LDI 1102 ON	27.300	0516SW SEL READ
S1B		DDA 2085 ON	27.300	5161VXK0006-603
S1B		DDA 2029 ON	27.304	4080VK0128-404
S1B	IU	MDI 2308 OFF	27.308	3768T-IVR STAGE SEL

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S1	I	MDI 2308 OFF	27.328	3768READ COMMAND
	IU	MDI 0817 ON	27.340	3517REG CONT BIT 2 VERIFY IN
S4B		MDI 1844 ON	27.340	3928SW SEL ZERO
	IU	LDI 0983 OFF	27.344	0463SW SEL READ
	IU	LDI 1099 OFF	27.344	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	27.344	0516SW SEL READ
	IU	MDI 0819 ON	27.344	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	27.344	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	27.344	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	27.344	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2085 OFF	27.344	5161VXK0006-603
S1B		DDA 2086 OFF	27.344	5164VXK0005-603
S1B		DDA 2029 OFF	27.348	4080VK0128-404
	IU	LDI 1091 OFF	27.352	0506BIT NO 2 VERIFY
S1B	IU	MDI 2305 ON	27.352	3765S-IVB STAGE SEL
S1B		DDA 2094 OFF	27.352	5167VXK0008-603
S1B		DDA 2096 OFF	27.352	5169VXK0008-603
S1B		DDA 2099 OFF	27.352	5172VXK0008-603
	IU	LDI 1093 OFF	27.356	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	27.356	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	27.356	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	27.356	0511BIT NO 7 VERIFY
	IU	LDI 1099 ON	27.356	0514S-IVB STAGE SELECTOR
	IU	MDI 0817 OFF	27.356	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	27.356	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	27.356	3522REG CONT BIT 7 VERIFY IN
S4B		MDI 1844 OFF	27.356	3928SW SEL ZERO
S1B		DDA 2088 ON	27.356	5164VXK0005-603
S1B		DDA 2095 OFF	27.356	5168VXK0008-603
	IU	MDI 0818 OFF	27.360	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	27.360	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	27.360	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	27.360	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON	27.364	5166VXK0008-603
S1B		DDA 2098 ON	27.364	5171VXK0008-603
S1B		DDA 2099 ON	27.364	5172VXK0008-603
	IU	LDI 1091 ON	27.368	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	27.368	0507BIT NO 3 VERIFY
	IU	LDI 1097 ON	27.368	0512BIT NO 8 VERIFY
S1B	IU	MDI 2308 ON	27.388	3768READ COMMAND
S1B S4B	IU	-2- 171 READ	27.388	
	IU	LDI 0983 ON	27.392	0463SW SEL READ
	IU	LDI 1102 ON	27.392	0516SW SEL READ
S4B		MDI 1734 OFF	27.392	3110FLT PRES+CST PER REL RST
S1B		DDA 2029 ON	27.392	4080VK0128-404
S1B		DDA 2085 ON	27.392	5161VXK0006-603

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S1B	IU	MDI 2305 OFF	27.424	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	27.424	3768READ COMMAND
	IU	LDI 0983 OFF	27.436	0463SW SEL READ
	IU	LDI 1099 OFF	27.436	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	27.436	0516SW SEL READ
	IU	MDI 0817 ON	27.436	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	27.436	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	27.436	3519REG CONT BIT 4 VERIFY IN
S4B		MDI 1844 ON	27.436	3928SW SEL ZERO
S1B		DDA 2085 OFF	27.436	5161VXK0006-603
S1B		DDA 2088 OFF	27.436	5164VXK0005-603
S1B		DDA 2029 OFF	27.440	4080VK0128-404
	IU	LDI 1091 OFF	27.444	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	27.444	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	27.444	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	27.444	5166VXK0008-603
S1B		DDA 2098 OFF	27.444	5171VXK0008-603
S1B		DDA 2099 OFF	27.444	5172VXK0008-603
S1B	IU	MDI 2305 ON	27.448	3765S-IVB STAGE SEL
S4B		MDI 1844 OFF	27.452	3928SW SEL ZERO
	IU	MDI 0816 OFF	27.456	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	27.456	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	27.456	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	27.456	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF	27.456	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON	27.456	5166VXK0008-603
S1B		DDA 2098 ON	27.456	5171VXK0008-603
S1B		DDA 2099 ON	27.456	5172VXK0008-603
S1B		DDA 2100 ON	27.456	5173VXK0008-603
	IU	LDI 1090 ON	27.460	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	27.460	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	27.460	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	27.460	0508BIT NO 4 VERIFY
	IU	LDI 1097 ON	27.460	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	27.460	0514S-IVB STAGE SELECTOR
S1B	IU	MDI 2305 OFF	27.480	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	27.480	3768READ COMMAND
S1B S4B	IU	-2- 160 RESE	27.480	
	IU	LDI 1103 ON	27.484	0517RESET COMMAND
S4B		MDI 1844 ON	27.484	3928SW SEL ZERO
S1B		DDA 2084 ON	27.484	5160VXK0007-603
	IU	MDI 0816 ON	27.488	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	27.488	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	27.488	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	27.488	3519REG CONT BIT 4 VERIFY IN

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	IU	MDI 0823 ON	27.488	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF	27.492	0506BIT NO 2 VERIFY
S1B		DDA 2088 OFF	27.492	5164VXK0005-603
S1B		DDA 2098 OFF	27.492	5171VXK0008-603
S1B		DDA 2099 OFF	27.492	5172VXK0008-603
	IU	LDI 1090 OFF	27.496	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	27.496	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	27.496	0508BIT NO 4 VERIFY
	IU	LDI 1097 OFF	27.496	0512BIT NO 8 VERIFY
	IU	LDI 1099 OFF	27.496	0514S-IVB STAGE SELECTOR
S1B	IU	MDI 2305 ON	27.496	3765S-IVB STAGE SEL
S1B	IU	DDA 2088 ON	27.496	5164VXK0005-603
S1B		DDA 2093 OFF	27.496	5166VXK0008-603
S1B		DDA 2100 OFF	27.496	5173VXK0008-603
	IU	LDI 1099 ON	27.500	0514S-IVB STAGE SELECTOR
	IU	LDI 1103 OFF	27.504	0517RESET COMMAND
S1B		DDA 2084 OFF	27.504	5160VXK0007-603
	IU	MDI 0816 OFF	27.508	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	27.508	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	27.508	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	27.508	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	27.508	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	27.508	3523REG CONT BIT 8 VERIFY IN
	IU	MDI 0816 ON	27.512	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	27.512	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	27.512	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	27.512	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	27.512	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	27.512	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON	27.516	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	27.516	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	27.516	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	27.516	0511BIT NO 7 VERIFY
S1B		DDA 2094 ON	27.516	5167VXK0008-603
S1B		DDA 2095 ON	27.516	5168VXK0008-603
S1B		DDA 2096 ON	27.516	5169VXK0008-603
S1B		DDA 2099 ON	27.516	5172VXK0008-603
S1B	IU	MDI 2308 ON	27.532	3766READ COMMAND
S1B S4B	IU	-2- 215 READ	27.532	
	IU	LDI 0983 ON	27.540	0463SW SEL READ
	IU	LDI 1079 OFF	27.540	0504SIVB ENG CUTOFF
	IU	LDI 1102 ON	27.540	0516SW SEL READ
S4B		MDO 1722 OFF	27.540	2222ENGINE STG LOGIC BYP ON
S4B		MDI 2766 OFF	27.540	2736SIVB ENG CUTOFF

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S4B		LDO 1844 OFF 27.540 4535SW SEL ZERO
S1B		DDA 2085 ON 27.540 5161VXK0006-603
S1B		DDA 2029 ON 27.544 4080VK0128-404
S1B	IU	MDI 2305 OFF 27.568 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 27.568 3768READ COMMAND
	IU	LDI 0983 OFF 27.576 0463SW SEL READ
	IU	LDI 1099 OFF 27.576 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 27.576 0516SW SEL READ
S1B		DDA 2085 OFF 27.576 5161VXK0006-603
S1B		DDA 2088 OFF 27.576 5164VXK0005-603
	IU	MDI 0817 ON 27.580 3517REG CONT BIT 2 VERIFY IN
S4B		MDI 1844 ON 27.580 3928SW SEL ZERO
	IU	LDI 1091 OFF 27.584 0506BIT NO 2 VERIFY
	IU	MDI 0820 ON 27.584 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 27.584 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 27.584 3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2099 OFF 27.584 5172VXK0008-603
	IU	LDI 1094 OFF 27.588 0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF 27.588 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 27.588 0511BIT NO 7 VERIFY
S1B		DDA 2029 OFF 27.588 4080VK0128-404
S4B		LDO 1844 ON 27.588 4535SW SEL ZERO
S1B		DDA 2094 OFF 27.588 5167VXK0008-603
S1B		DDA 2096 OFF 27.588 5169VXK0008-603
S1B	IU	MDI 2305 ON 27.592 3765S-IVB STAGE SEL
S4B		MDI 1844 OFF 27.596 3928SW SEL ZERO
	IU	LDI 1099 ON 27.600 0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF 27.600 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 27.600 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF 27.600 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 27.600 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 27.600 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 27.600 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON 27.600 5164VXK0005-603
	IU	LDI 1090 ON 27.608 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 27.608 0506BIT NO 2 VERIFY
	IU	LDI 1094 ON 27.608 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 27.608 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 27.608 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 27.608 0512BIT NO 8 VERIFY
S4B		LDO 1844 OFF 27.608 4535SW SEL ZERO
S1B		DDA 2093 ON 27.608 5166VXK0008-603
S1B		DDA 2094 ON 27.608 5167VXK0008-603
S1B		DDA 2095 ON 27.608 5168VXK0008-603
S1B		DDA 2096 ON 27.608 5169VXK0008-603

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S1		DDA 2099 ON	27.608	5172VXK0008-603
S1		DDA 2100 ON	27.608	5173VXK0008-603
S1	IU	MDI 2308 ON	27.624	3768READ COMMAND
S1	S40 IU	-2- 014 READ	27.624	
	IU	LDI 0983 ON	27.632	0463SW SEL READ
	IU	LDI 1102 ON	27.632	0516SW SEL READ
S1B		DDA 2085 ON	27.632	5161VXK0006-603
S1		DDA 2029 ON	27.636	4080VK0128-404
S1		MDI 2187 OFF	27.648	2596TCS PULSE OK
	S40	LDO 1734 ON	27.652	4795FLT PRES+CST PER REL RST
S1	IU	MDI 2305 OFF	27.660	3765S-IVR STAGE SEL
S1	IU	MDI 2308 OFF	27.660	3768READ COMMAND
	IU	LDI 0983 OFF	27.668	0463SW SEL READ
	IU	LDI 1102 OFF	27.668	0516SW SEL READ
	S40	DDA 2085 OFF	27.668	5161VXK0006-603
S1		DDA 2088 OFF	27.668	5164VXK0005-603
	IU	MDI 0816 ON	27.672	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	27.672	3517REG CONT BIT 2 VERIFY IN
	S40	MDI 1844 ON	27.672	3928SW SEL ZERO
S1		LDI 0079 ON	27.676	0039LOX PREVLV 4 CLOSED IND
	IU	LDI 1091 OFF	27.676	0506BIT NO 2 VERIFY
	IU	MDI 0820 ON	27.676	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	27.676	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	27.676	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	27.676	3523REG CONT BIT 8 VERIFY IN
S1		DDA 1835 ON	27.676	4034VK0094-009
S1		DDA 2093 OFF	27.676	5166VXK0008-603
S1		DDA 2094 OFF	27.676	5169VXK0008-603
S1		DDA 2095 OFF	27.676	5172VXK0008-603
S1		DDA 2100 OFF	27.676	5173VXK0008-603
	IU	LDI 1091 OFF	27.680	0505BIT NO 1 VERIFY
	IU	LDI 1094 OFF	27.680	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	27.680	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	27.680	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	27.680	0512BIT NO 8 VERIFY
S1		DDA 2029 OFF	27.680	4080VK0128-404
S1		DDA 2094 OFF	27.680	5167VXK0008-603
S1		DDA 2095 OFF	27.680	5168VXK0008-603
S1	IU	MDI 2305 ON	27.684	3765S-IVR STAGE SEL
	IU	LDI 1099 ON	27.692	0514S-IVR STAGE SELECTOR
	IU	MDI 0816 OFF	27.692	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	27.692	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	27.692	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	27.692	3519REG CONT BIT 4 VERIFY IN

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	IU	MDI 0820 OFF	27.692	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	27.692	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	27.692	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	27.692	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	27.592	5164VXK0005-603
	IU	LDI 1090 ON	27.700	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	27.700	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	27.700	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	27.700	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	27.700	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	27.700	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	27.700	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	27.700	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	27.700	5166VXK0008-603
S1B		DDA 2094 ON	27.700	5167VXK0008-603
S1B		DDA 2095 ON	27.700	5168VXK0008-603
S1B		DDA 2096 ON	27.700	5169VXK0008-603
S1B		DDA 2097 ON	27.700	5170VXK0008-603
S1B		DDA 2098 ON	27.700	5171VXK0008-603
S1B		DDA 2099 ON	27.700	5172VXK0008-603
S1B		DDA 2100 ON	27.700	5173VXK0008-603
S1B	IU	MDI 2305 OFF	27.716	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	27.716	3767RESET COMMAND
S1B S4B	IU	-2- 000 RESET	27.716	
	IU	LDI 1103 ON	27.724	0517RESET COMMAND
	IU	MDI 0816 ON	27.724	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	27.724	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	27.724	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	27.724	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	27.724	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	27.724	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	27.724	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	27.724	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	27.724	5160VXK0007-603
S1B		DDA 2099 OFF	27.724	5172VXK0008-603
	IU	LDI 1090 OFF	27.728	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	27.728	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	27.728	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	27.728	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	27.728	0512BIT NO 8 VERIFY
	IU	LDI 1099 OFF	27.728	0514S-IVB STAGE SELECTOR
S1B		DDA 2088 OFF	27.728	5164VXK0005-603
S1B		DDA 2093 OFF	27.728	5166VXK0008-603
S1B		DDA 2094 OFF	27.728	5167VXK0008-603
S1B		DDA 2095 OFF	27.728	5168VXK0008-603
S1B		DDA 2096 OFF	27.728	5169VXK0008-603
S1B		DDA 2097 OFF	27.728	5170VXK0008-603

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S1B		DDA 2100	OFF	27.728	5173VXK0008-603
	IU	LDI 1093	OFF	27.732	0508BIT NO 4 VERIFY
	IU	LDI 1095	OFF	27.732	0510BIT NO 6 VERIFY
	IU	LDI 1096	OFF	27.732	0511BIT NO 7 VERIFY
S1B	IU	MDI 2305	ON	27.732	3765S-IVB STAGE SEL
S1B	IU	MDI 2307	OFF	27.732	3767RESET COMMAND
	IU	LDI 1099	ON	27.740	0514S-IVB STAGE SELECTOR
S4B		MDI 1844	OFF	27.740	3928SW SEL ZERO
S1B		DDA 2088	ON	27.740	5164VXK0005-603
	IU	LDI 1103	OFF	27.744	0517RESET COMMAND
	IU	MDI 0816	OFF	27.744	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	OFF	27.744	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	27.744	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	27.744	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	27.744	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	OFF	27.744	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	27.744	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	27.744	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084	OFF	27.744	5160VXK0007-603
	IU	MDI 0816	ON	27.748	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818	ON	27.748	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	27.748	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	ON	27.748	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	ON	27.748	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	ON	27.748	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	ON	27.748	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2099	ON	27.748	5172VXK0008-603
	IU	LDI 1091	ON	27.752	0506BIT NO 2 VERIFY
S1B	IU	MDI 2308	ON	27.768	3768READ COMMAND
1- 842	IU	-2- 375	27.744		
S4B		MDI 1677	OFF	27.772	3069MRCV RELAYS RESET
S1B		DDA 2085	ON	27.772	5161VXK0006-603
	IU	LDI 0983	ON	27.776	0463SW SEL READ
	IU	LDI 1102	ON	27.776	0516SW SEL READ
S1B		DDA 2029	ON	27.776	4080VK0128-404
S1B	IU	MDI 2305	OFF	27.808	3765S-IVB STAGE SEL
S1B	IU	MDI 2308	OFF	27.808	3768READ COMMAND
S4B		MDI 1844	ON	27.816	3928SW SEL ZERO
S1B		DDA 2085	OFF	27.816	5161VXK0006-603
	IU	LDI 0983	OFF	27.820	0463SW SEL READ
	IU	LDI 1099	OFF	27.820	0514S-IVB STAGE SELECTOR
	IU	LDI 1102	OFF	27.820	0516SW SEL READ
	IU	MDI 0817	ON	27.820	3517REG CONT BIT 2 VERIFY IN
S1B		DDA 2029	OFF	27.824	4080VK0128-404
S1B		DDA 2099	OFF	27.824	5172VXK0008-603

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	IU		LDI 1091 OFF 27.828 0506BIT NO 2 VERIFY
S1B	IU		MDI 2305 ON 27.828 3765S-IVB STAGE SEL
S4B			MDI 1844 OFF 27.832 3928SW SEL ZERO
	IU		MDI 0817 OFF 27.836 3517REG CONT BIT 2 VERIFY IN
	IU		LDI 1091 ON 27.840 0506BIT NO 2 VERIFY
	IU		LDI 1097 ON 27.840 0512BIT NO 8 VERIFY
	IU		LDI 1099 ON 27.840 0514S-IVB STAGE SELECTOR
	IU		MDI 0820 OFF 27.840 3520REG CONT BIT 5 VERIFY IN
	IU		MDI 0821 OFF 27.840 3521REG CONT BIT 6 VERIFY IN
	IU		MDI 0823 OFF 27.840 3523REG CONT BIT 8 VERIFY IN
S1B			DDA 2088 ON 27.840 5164VXK0005-603
S1B			DDA 2093 ON 27.840 5166VXK0008-603
S1B			DDA 2095 ON 27.840 5168VXK0008-603
S1B			DDA 2096 ON 27.840 5169VXK0008-603
S1B			DDA 2099 ON 27.840 5172VXK0008-603
	IU		LDI 1094 ON 27.844 0509BIT NO 5 VERIFY
	IU		LDI 1095 ON 27.844 0510BIT NO 6 VERIFY
S4B			LDO 1844 OFF 27.848 4535SW SEL ZERO
S1B	IU		MDI 2305 OFF 27.864 3765S-IVB STAGE SEL
S1B	IU		MDI 2307 ON 27.864 3767RESET COMMAND
S1B S4B	IU	-2-	115 RESET 27.864
S4B			LDO 1734 OFF 27.864 4795FLT PRES+CST PER REL RST
S4B			MDI 1844 ON 27.868 3928SW SEL ZERO
	IU		MDI 0817 ON 27.872 3517REG CONT BIT 2 VERIFY IN
	IU		MDI 0820 ON 27.872 3520REG CONT BIT 5 VERIFY IN
	IU		MDI 0821 ON 27.872 3521REG CONT BIT 6 VERIFY IN
	IU		MDI 0823 ON 27.872 3523REG CONT BIT 8 VERIFY IN
S1B			DDA 2084 ON 27.872 5160VXK0007-603
	IU		LDI 1091 OFF 27.876 0506BIT NO 2 VERIFY
	IU		LDI 1099 OFF 27.876 0514S-IVB STAGE SELECTOR
	IU		LDI 1103 ON 27.876 0517RESET COMMAND
S1B			DDA 2088 OFF 27.876 5164VXK0005-603
S1B			DDA 2093 OFF 27.876 5166VXK0008-603
S1B			DDA 2099 OFF 27.876 5172VXK0008-603
	IU		LDI 1094 OFF 27.880 0509BIT NO 5 VERIFY
	IU		LDI 1095 OFF 27.880 0510BIT NO 6 VERIFY
	IU		LDI 1097 OFF 27.880 0512BIT NO 8 VERIFY
S1B	IU		MDI 2305 ON 27.880 3765S-IVB STAGE SEL
S1B	IU		MDI 2307 OFF 27.880 3767RESET COMMAND
S1B			DDA 2088 ON 27.880 5164VXK0005-603
S1B			DDA 2095 OFF 27.880 5168VXK0008-603
S1B			DDA 2096 OFF 27.880 5169VXK0008-603
	IU		LDI 1099 ON 27.884 0514S-IVB STAGE SELECTOR
S1B			DDA 2084 OFF 27.884 5160VXK0007-603
	IU		LDI 1103 OFF 27.888 0517RESET COMMAND
S4B			MDI 1844 OFF 27.888 3928SW SEL ZERO

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	IU	MDI 0817 OFF	27.892	3517REG	CONT BIT 2	VERIFY IN
	IU	MDI 0818 OFF	27.892	3518REG	CONT BIT 3	VERIFY IN
	IU	MDI 0820 OFF	27.892	3520REG	CONT BIT 5	VERIFY IN
	IU	MDI 0821 OFF	27.892	3521REG	CONT BIT 6	VERIFY IN
	IU	MDI 0822 OFF	27.892	3522REG	CONT BIT 7	VERIFY IN
	IU	MDI 0823 OFF	27.892	3523REG	CONT BIT 8	VERIFY IN
	IU	MDI 0816 OFF	27.896	3516REG	CONT BIT 1	VERIFY IN
	IU	MDI 0819 OFF	27.896	3519REG	CONT BIT 4	VERIFY IN
	IU	MDI 0820 ON	27.896	3520REG	CONT BIT 5	VERIFY IN
	IU	MDI 0821 ON	27.896	3521REG	CONT BIT 6	VERIFY IN
	IU	MDI 0823 ON	27.896	3523REG	CONT BIT 8	VERIFY IN
	IU	LDI 1090 ON	27.900	0505BIT	NO 1	VERIFY
	IU	LDI 1091 ON	27.900	0506BIT	NO 2	VERIFY
	IU	LDI 1092 0	27.900	0507BIT	NO 3	VERIFY
	IU	LDI 1093 ON	27.900	0508BIT	NO 4	VERIFY
	IU	LDI 1096 ON	27.900	0511BIT	NO 7	VERIFY
S4B		LDO 1844 ON	27.900	4535SW	SEL ZERO	
S1B		DDA 2094 ON	27.900	5167VXK0008-603		
S1B		DDA 2098 ON	27.900	5171VXK0008-603		
S1B		DDA 2099 ON	27.900	5172VXK0008-603		
S1B		DDA 2100 ON	27.900	5173VXK0008-603		
S1B	IU	MDI 2308 ON	27.916	3768READ	COMMAND	
S1B S4B	IU	-2- 260 READ	27.916			
S4B		LDO 1844 OFF	27.916	4535SW	SEL ZERO	
	IU	LDI 0983 ON	27.924	0463SW	SEL READ	
	IU	LDI 1102 ON	27.924	0516SW	SEL READ	
S1B		DDA 2085 ON	27.924	5161VXK0006-603		
S1B		DDA 2029 ON	27.928	4080VK0128-404		
S1B	IU	MDI 2305 OFF	27.956	3765S-IVB	STAGE SEL	
S1B	IU	MDI 2308 OFF	27.956	3768READ	COMMAND	
S4B		MDI 1844 ON	27.964	3928SW	SEL ZERO	
S4B		LDO 1844 ON	27.964	4535SW	SEL ZERO	
	IU	LDI 0983 OFF	27.968	0463SW	SEL READ	
	IU	LDI 1099 OFF	27.968	0514S-IVB	STAGE SELECTOR	
	IU	LDI 1102 OFF	27.968	0516SW	SEL READ	
	IU	MDI 0816 ON	27.968	3516REG	CONT BIT 1	VERIFY IN
	IU	MDI 0817 ON	27.968	3517REG	CONT BIT 2	VERIFY IN
	IU	MDI 0818 ON	27.968	3518REG	CONT BIT 3	VERIFY IN
	IU	MDI 0819 ON	27.968	3519REG	CONT BIT 4	VERIFY IN
	IU	MDI 0822 ON	27.968	3522REG	CONT BIT 7	VERIFY IN
S1B		DDA 2085 OFF	27.968	5161VXK0006-603		
S1B		DDA 2088 OFF	27.968	5164VXK0005-603		
S1B		DDA 2029 OFF	27.972	4080VK0128-404		
	IU	LDI 1091 OFF	27.976	0506BIT	NO 2	VERIFY
S1B		DDA 2098 OFF	27.976	5171VXK0008-603		
S1B		DDA 2099 OFF	27.976	5172VXK0008-603		

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S1B		DDA 2100 OFF 27.976 5173VXK0008-603
	IU	LDI 1090 OFF 27.980 0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF 27.980 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 27.980 0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF 27.980 0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF 27.980 5167VXK0008-603
S1B	IU	MDI 2305 ON 27.984 3765S-IVB STAGE SEL
	IU	MDI 0816 OFF 27.988 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 27.988 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 27.988 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 27.988 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF 27.988 3522REG CONT BIT 7 VERIFY IN
S4B		MDI 1844 OFF 27.988 3928SW SEL ZERO
	IU	LDI 1090 ON 27.992 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 27.992 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 27.992 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 27.992 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 27.992 0509BIT NO 5 VERIFY
	IU	LDI 1099 ON 27.992 0514S-IVB STAGE SELECTOR
	IU	MDI 0818 ON 27.992 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF 27.992 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 27.992 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 27.992 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON 27.992 5164VXK0005-603
S1B		DDA 2094 ON 27.992 5167VXK0008-603
S1B		DDA 2098 ON 27.992 5171VXK0008-603
S1B		DDA 2099 ON 27.992 5172VXK0008-603
S1B		DDA 2100 ON 27.992 5173VXK0008-603
	IU	LDI 1095 ON 28.000 0510BIT NO 6 VERIFY
	IU	LDI 1097 ON 28.000 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 28.000 5166VXK0008-603
S1B		DDA 2095 ON 28.000 5168VXK0008-603
	IU	LDI 1092 OFF 28.004 0507BIT NO 3 VERIFY
	IU	LDI 1096 OFF 28.004 0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF 28.004 5167VXK0008-603
S1B		DDA 2098 OFF 28.004 5171VXK0008-603
S4B		LDO 1844 OFF 28.012 4535SW SEL ZERO
S1B	IU	MDI 2306 ON 28.016 3768READ COMMAND
S1B S4B	IU	-2- 124 READ 28.016
S1B		MDI 2187 ON 28.020 2596TCS PULSE OK
	IU	LDI 0983 ON 28.024 0463SW SEL READ
	IU	LDI 1102 ON 28.024 0516SW SEL READ
S4B		DEE 3110 ON 28.024 4941ULL ROCKET NO 1 ING NO 1
S4B		DEE 3111 ON 28.024 4942ULL ROCKET NO 1 ING NO 2
S4B		DEE 3114 ON 28.024 4945ULL ROCKET NO 3 IGN NO 2
S4B		DEE 3115 ON 28.024 4946ULL ROCKET NO 2 IGN NO 1

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S4B	DEE 3116 ON	28.024	4947ULL ROCKET NO 2 IGN NO 2
S4B	DEE 3117 ON	28.024	4948ULL ROCKET NO 3 IGN NO 1
S1B	DDA 2085 ON	28.024	5161VXK0006-603
S1B	DDA 2029 ON	28.028	4080VK0128-404
S1B	IU MDI 2305 OFF	28.056	3765S-IV8 STAGE SEL
S1B	IU MDI 2308 OFF	28.056	3768READ COMMAND
	MDI 1844 ON	28.064	3928SW SEL ZERO
	LDI 0883 OFF	28.068	3443SW SEL READ
	LDI 1092 OFF	28.068	0514S-IB STAGE SELECTOR
	LDI 1093 OFF	28.068	0515S-IB STAGE SELECTOR
	MDI 0816 ON	28.068	3516REG CONT BIT 1 VERIFY IN
	MDI 0817 ON	28.068	3517REG CONT BIT 2 VERIFY IN
	MDI 0819 ON	28.068	3519REG CONT BIT 4 VERIFY IN
	MDI 0821 ON	28.068	3521REG CONT BIT 6 VERIFY IN
	IU MDI 0823 ON	28.068	3523REG CONT BIT 8 VERIFY IN
S1B	DDA 2085 OFF	28.068	5161VXK0006-603
S1B	DDA 2088 OFF	28.068	5164VXK0005-603
S1B	DDA 2029 OFF	28.072	4080VK0128-404
	IU LDI 1091 OFF	28.076	0506BIT NO 2 VERIFY
	DDA 2099 OFF	28.076	5172VXK0008-603
S1B	DDA 2100 OFF	28.076	5173VXK0008-603
	IU LDI 1090 OFF	28.080	0505BIT NO 1 VERIFY
	IU LDI 1093 OFF	28.080	0508BIT NO 4 VERIFY
	IU LDI 1095 OFF	28.080	0510BIT NO 6 VERIFY
	IU LDI 1097 OFF	28.080	0512BIT NO 8 VERIFY
S1B	IU MDI 2304 ON	28.080	3764S-IB STAGE SEL
S1B	DDA 3041 ON	28.080	5355VK0144-404
S1B	DDA 3042 ON	28.080	5356VK0146-404
	IU LDI 1101 ON	28.084	0515S-IB STAGE SELECTOR
	IU MDI 0816 OFF	28.084	3516REG CONT BIT 1 VERIFY IN
	IU MDI 0817 OFF	28.084	3517REG CONT BIT 2 VERIFY IN
	IU MDI 0820 OFF	28.084	3520REG CONT BIT 5 VERIFY IN
	IU MDI 0821 OFF	28.084	3521REG CONT BIT 6 VERIFY IN
S1B	MDI 2065 OFF	28.084	3734SWITCH SELECTOR ZERO IND
S1B	DDA 2090 ON	28.084	5165VXK0005-603
	IU MDI 0818 OFF	28.088	3518REG CONT BIT 3 VERIFY IN
	IU MDI 0819 OFF	28.088	3519REG CONT BIT 4 VERIFY IN
	IU MDI 0821 ON	28.088	3521REG CONT BIT 6 VERIFY IN
	IU MDI 0822 OFF	28.088	3522REG CONT BIT 7 VERIFY IN
	IU MDI 0823 OFF	28.088	3523REG CONT BIT 8 VERIFY IN
S1B	DDA 3054 ON	28.088	5366VK0148-404
S1B	DDA 3055 ON	28.088	5367VK0147-404
S1B	DDA 3056 ON	28.088	5368VK0146-404
S1B	DDA 3057 ON	28.088	5369VK0145-404

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	IU	LDI 1090 ON	28.092	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	28.092	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	28.092	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	28.092	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	28.092	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	28.092	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	28.092	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	28.092	5166VXK0008-603
S1B		DDA 2094 ON	28.092	5167VXK0008-603
S1B		DDA 2096 ON	28.092	5169VXK0008-603
S1B		DDA 2098 ON	28.092	5171VXK0008-603
S1B		DDA 2099 ON	28.092	5172VXK0008-603
S1B		DDA 2100 ON	28.092	5173VXK0008-603
S1B	IU	MDI 2304 OFF	28.112	3764S-IB STAGE SEL
S1B	IU	MDI 2307 ON	28.112	3767RESET COMMAND
S1B	IU	-1- 347 RESET	28.112	
	IU	LDI 1103 ON	28.116	0517RESET COMMAND
	IU	MDI 0816 ON	28.116	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	28.116	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	28.116	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	28.116	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	28.116	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 ON	28.116	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2084 ON	28.116	5160VXK0007-603
	IU	LDI 1101 OFF	28.120	0515S-IB STAGE SELECTOR
	IU	MDI 0820 ON	28.120	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	28.120	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2090 OFF	28.120	5165VXK0005-603
S1B		DDA 2099 OFF	28.124	5172VXK0008-603
	IU	LDI 1090 OFF	28.128	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	28.128	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	28.128	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	28.128	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	28.128	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	28.128	5166VXK0008-603
S1B		DDA 2094 OFF	28.128	5167VXK0008-603
S1B		DDA 2096 OFF	28.128	5169VXK0008-603
S1B		DDA 2098 OFF	28.128	5171VXK0008-603
S1B		DDA 2100 OFF	28.128	5173VXK0008-603
	IU	LDI 1093 OFF	28.132	0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF	28.132	0511BIT NO 7 VERIFY
S1B	IU	MDI 2304 ON	28.144	3764S-IB STAGE SEL
S1B	IU	MDI 2307 OFF	28.144	3767RESET COMMAND
S1B		DDA 2090 ON	28.148	5165VXK0005-603
	IU	LDI 1101 ON	28.152	0515S-IB STAGE SELECTOR
	IU	LDI 1103 OFF	28.152	0517RESET COMMAND

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11		MDI 2084 OFF	28.156	5166VXK0008-603
	IU	MDI 0814 OFF	28.156	3514REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	28.156	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	28.156	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	28.156	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	28.156	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	28.156	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	28.156	3523REG CONT BIT 8 VERIFY IN
S1B		MDI 2065 OFF	28.156	3734SWITCH SELECTOR ZERO IND
S1B		DDA 2094 ON	28.156	5167VXK0008-603
S1B		DDA 2095 ON	28.156	5168VXK0008-603
S1B		DDA 2096 ON	28.156	5171VXK0008-603
S1B		DDA 2100 ON	28.156	5173VXK0008-603
	IU	LDI 1090 OFF	28.160	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	28.160	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	28.160	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	28.160	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	28.160	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	28.160	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	28.160	0512BIT NO 8 VERIFY
	IU	MDI 0816 ON	28.160	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	28.160	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	28.160	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	28.160	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	28.160	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	28.160	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	28.160	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1095 ON	28.168	0510BIT NO 6 VERIFY
S1B		DDA 2093 OFF	28.168	5166VXK0008-603
S1B		DDA 2095 ON	28.168	5168VXK0008-603
S1B		DDA 2098 OFF	28.168	5171VXK0008-603
S1B		DDA 2100 ON	28.168	5173VXK0008-603
	IU	LDI 1090 OFF	28.172	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	28.172	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	28.172	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	28.172	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	28.172	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	28.172	0512BIT NO 8 VERIFY
S1B		DDA 2094 OFF	28.172	5167VXK0008-603
S1B		DDA 2096 OFF	28.172	5169VXK0008-603
S1B	IU	MDI 2308 ON	28.180	3768READ COMMAND
S1B	IU	-1- 335 READ	28.180	
S1B		DDA 1109 ON	28.188	4048VR0001-012
	IU	LDI 0983 ON	28.192	0463SW SEL READ

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S18		LDI	0115	ON	28.236	0066RETRU 4 FIRED F UNIT 2
S18		LDI	0116	ON	28.236	0067SEP BOLTS FIRED F UNIT 1
S18		LDI	0117	ON	28.236	0068SEP BOLTS FIRED F UNIT 2
S18		LDI	0937	ON	28.236	0445SW SEL OUTPUT FAILURE
S18			1004	ON	28.236	2463VK0133-400
S18			1005	ON	28.236	2464VK0132-400
S18			1006	ON	28.236	2465VK0131-400
S18			1007	ON	28.236	2466VK0133-400
S18			1008	ON	28.236	2467VK0129-400
S18			1009	ON	28.236	2468VK0128-400
S18			1010	ON	28.236	2469VK0127-400
S18			2037	OFF	28.236	4088VK0012-602
S18			2038	OFF	28.236	4089VK0011-602
	IU		0983	OFF	28.244	0463SW SEL READ
	IU		1102	OFF	28.244	0516SW SEL READ
S18			1021	ON	28.244	2480SPARE
S18			1022	ON	28.244	2481SPARE
S18			2085	OFF	28.244	5161VXK0006-603
	IU		1101	OFF	28.252	0515S-IB STAGE SELECTOR
S18			2090	OFF	28.252	5165VXK0005-603
S18			2117	OFF	28.260	5185VK0063-602
S18	IU		2306	ON	28.264	3766IU STAGE SEL
	IU		0762	OFF	28.272	3482SW SEL ZERO IND
	IU		0817	OFF	28.272	3517REG CONT BIT 2 VERIFY IN
	IU		0818	OFF	28.272	3518REG CONT BIT 3 VERIFY IN
	IU		0819	OFF	28.272	3519REG CONT BIT 4 VERIFY IN
	IU		0820	OFF	28.272	3520REG CONT BIT 5 VERIFY IN
	IU		0822	OFF	28.272	3522REG CONT BIT 7 VERIFY IN
	IU		0823	OFF	28.272	3523REG CONT BIT 8 VERIFY IN
S18		DDA	2087	ON	28.272	5163VXK0005-603
S18		DDA	2093	ON	28.272	5166VXK0008-603
S18		DDA	2094	U	28.272	5167VXK0008-603
S18		DDA	2096	ON	28.272	5169VXK0008-603
S18		DDA	2098	ON	28.272	5171VXK0008-603
S18		DDA	2099	ON	28.272	5172VXK0008-603
	IU	LDI	1091	ON	28.276	0506BIT NO 2 VERIFY
	IU	LDI	1092	ON	28.276	0507BIT NO 3 VERIFY
	IU	LDI	1093	ON	28.276	0508BIT NO 4 VERIFY
	IU	LDI	1094	ON	28.276	0509BIT NO 5 VERIFY
	IU	LDI	1096	ON	28.276	0511BIT NO 7 VERIFY
	IU	LDI	1097	ON	28.276	0512BIT NO 8 VERIFY
	IU	LDI	1098	ON	28.276	0513IU STAGE SELECTOR
S18		DDA	2086	OFF	28.276	5162VXK0003-603
S18		DDA	2003	OFF	28.288	4062VK0009-602
S18	IU	MDI	2308	ON	28.300	3768READ COMMAND
S18	S4B IU		041	READ	28.300	

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S1A		DDA 2149 ON 28.304 4134VK0004-603
	IU	LDI 0983 ON 28.308 0463SW SEL READ
	IU	LDI 1102 ON 28.308 0516SW SEL READ
S1A		DDA 2085 ON 28.308 5161VXK0006-603
S1B	IU	MDI 2306 OFF 28.336 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 28.336 3768READ COMMAND
	IU	LDI 0983 OFF 28.352 0463SW SEL READ
	IU	LDI 1098 OFF 28.352 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 28.352 0516SW SEL READ
	IU	MDI 0782 ON 28.352 3482SW SEL ZERO IND
	IU	MDI 0817 ON 28.352 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 28.352 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 28.352 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 28.352 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON 28.352 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 28.352 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF 28.352 5161VXK0006-603
S1B		DDA 2087 OFF 28.352 5163VXK0005-603
S1B		DDA 2086 ON 28.356 5162VXK0003-603
	IU	LDI 1091 OFF 28.360 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 28.360 0507BIT NO 3 VERIFY
S1A		DDA 2093 OFF 28.360 5166VXK0008-603
S1B		DDA 2096 OFF 28.360 5169VXK0008-603
S1B		DDA 2098 OFF 28.360 5171VXK0008-603
S1B		DDA 2099 OFF 28.360 5172VXK0008-603
	IU	LDI 1093 OFF 28.364 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 28.364 0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF 28.364 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 28.364 0512BIT NO 8 VERIFY
S1B	IU	MDI 2306 ON 28.364 3766IU STAGE SEL
S4B		LDO 1844 ON 28.364 4535SW SEL ZERO
S1B		DDA 2094 OFF 28.364 5167VXK0008-603
	IU	MDI 0782 OFF 28.372 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 28.372 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 28.372 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 28.372 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF 28.372 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 28.372 3523REG CONT BIT 8 VERIFY IN
S1A		DDA 2093 ON 28.372 5166VXK0008-603
S1B		DDA 2094 ON 28.372 5167VXK0008-603
S1B		DDA 2096 ON 28.372 5169VXK0008-603
S1B		DDA 2098 ON 28.372 5171VXK0008-603
S1B		DDA 2099 ON 28.372 5172VXK0008-603
	IU	LDI 1091 ON 28.376 0506BIT NO 2 VERIFY

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	IU	LDI 1092 ON	28.376	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	28.376	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	28.376	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	28.376	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	28.376	0512BIT NO 8 VERIFY
	IU	LDI 1098 ON	28.376	0513IU STAGE SELECTOR
	IU	MDI 0819 ON	28.376	3519REG CONT BIT 4 VERIFY IN
S1B		DDA 2086 OFF	28.376	5162VXK0003-603
S1B		DDA 2098 OFF	28.384	5171VXK0008-603
	IU	LDI 1092 OFF	28.388	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	28.388	0508BIT NO 4 VERIFY
S1B	IU	MDI 2308 ON	28.400	3768READ COMMAND
S1B S4B	IU	-3- 055 READ	28.400	
S4B		LDO 1844 OFF	28.404	4535SW SEL ZERO
	IU	LDI 0983 ON	28.408	0463SW SEL READ
	IU	LDI 1102 ON	28.408	0516SW SEL READ
S1B		DDA 2085 ON	28.408	5161VXK0006-603
S1B		DDA 2149 ON	28.412	4134VK0004-603
S1B		DDA 2110 ON	28.416	5183VK0020-602
S1B		DDA 2111 OFF	28.428	5184VK0021-602
S1B	IU	MDI 2306 OFF	28.436	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	28.436	3768READ COMMAND
	IU	LDI 0983 OFF	28.444	0463SW SEL READ
	IU	LDI 1098 OFF	28.444	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	28.444	0516SW SEL READ
S1B		DDA 2087 OFF	28.444	5163VXK0005-603
S1B	IU	MDI 0782 ON	28.452	3482SW SEL ZERO IND
	IU	MDI 0817 ON	28.452	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	28.452	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	28.452	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	28.452	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 ON	28.456	5162VXK0003-603
	IU	LDI 1091 OFF	28.460	0506BIT NO 2 VERIFY
S1B	IU	MDI 2305 ON	28.460	3765S-IVB STAGE SEL
S1B		DDA 2149 OFF	28.460	4134VK0004-603
	S4B	LDO 1844 ON	28.460	4535SW SEL ZERO
S1B		DDA 2093 OFF	28.460	5166VXK0008-603
S1B		DDA 2094 OFF	28.460	5167VXK0008-603
S1B		DDA 2096 OFF	28.460	5169VXK0008-603
S1B		DDA 2099 OFF	28.460	5172VXK0008-603
	IU	LDI 1094 OFF	28.464	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	28.464	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	28.464	0512BIT NO 8 VERIFY
S4B		MDI 1844 OFF	28.464	3928SW SEL ZERO
11		DDA 2086 ON	28.464	5164VXK0005-603

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	IU	LDI 1099 ON	28.468	0514S-IVR STAGE SELECTOR
	IU	MDI 0817 OFF	28.468	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	28.468	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	28.468	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	28.468	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF	28.468	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON	28.472	5168VXK0008-603
S1B		DDA 2098 ON	28.472	5171VXK0008-603
	IU	LDI 1091 ON	28.476	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	28.476	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	28.476	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	28.476	0509BIT NO 5 VERIFY
	IU	LDI 1097 ON	28.476	0512BIT NO 8 VERIFY
S1B		DDA 2099 ON	28.476	5172VXK0008-603
S4B		LDO 1677 OFF	28.520	4752MRCV RELAYS RESET
S1B	IU	MDI 2305 OFF	28.532	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON	28.532	3767RESET COMMAND
S1B S4B	IU	-2- 141 RESET	28.532	
S4B		MDI 1844 ON	28.536	3928SW SEL ZERO
	IU	LDI 1103 ON	28.540	0517RESET COMMAND
	IU	MDI 0817 ON	28.540	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	28.540	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	28.540	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	28.540	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	28.540	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2099 OFF	28.540	5172VXK0008-603
	IU	LDI 1092 OFF	28.544	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	28.544	0512BIT NO 8 VERIFY
	IU	LDI 1099 OFF	28.544	0514S-IVR STAGE SELECTOR
S1B		DDA 2088 OFF	28.544	5164VXK0005-603
S1B		DDA 2093 OFF	28.544	5166VXK0008-603
S1B		DDA 2096 OFF	28.544	5169VXK0008-603
S1B		DDA 2098 OFF	28.544	5171VXK0008-603
	IU	LDI 1093 OFF	28.548	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	28.548	0509BIT NO 5 VERIFY
	IU	MDI 0863 OFF	28.548	3435CTL VOLTAGE OK A
S1B	IU	MDI 2305 ON	28.548	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 OFF	28.548	3767RESET COMMAND
	IU	MDI 2248 OFF	28.552	2619CONTROL VOLTAGE A/C
S1B		MDI 0103 OFF	28.552	2983OK TO START HYD PUMPS IN
S1B		MDO 1286 OFF	28.552	3211HYD RDY BYPASS ON
	IU	LDI 1099 ON	28.556	0514S-IVR STAGE SELECTOR

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S4B	MDI 1844 OFF 28.556 3928SW SEL ZERO
S1B	DDA 2086 ON 28.556 5164VXK0005-603
IU	LDI 1103 OFF 28.560 0517RESET COMMAND
IU	MDI 0816 OFF 28.560 3516REG CONT BIT 1 VERIFY IN
IU	MDI 0817 OFF 28.560 3517REG CONT BIT 2 VERIFY IN
IU	MDI 0818 OFF 28.560 3518REG CONT BIT 3 VERIFY IN
IU	MDI 0819 OFF 28.560 3519REG CONT BIT 4 VERIFY IN
IU	MDI 0822 OFF 28.560 3522REG CONT BIT 7 VERIFY IN
IU	MDI 0823 OFF 28.560 3523REG CONT BIT 8 VERIFY IN
S1B	DDA 2084 OFF 28.560 5160VXK0007-603
IU	MDI 0818 ON 28.564 3518REG CONT BIT 3 VERIFY IN
IU	MDI 0819 ON 28.564 3519REG CONT BIT 4 VERIFY IN
IU	MDI 0821 OFF 28.564 3521REG CONT BIT 6 VERIFY IN
IU	MDI 0823 ON 28.564 3523REG CONT BIT 8 VERIFY IN
S1B	DDA 2099 ON 28.564 5172VXK0008-603
IU	LDI 1090 ON 28.568 0505BIT NO 1 VERIFY
IU	LDI 1091 ON 28.568 0506BIT NO 2 VERIFY
IU	LDI 1095 ON 28.568 0510BIT NO 6 VERIFY
IU	LDI 1096 ON 28.568 0511BIT NO 7 VERIFY
S1B	DDA 2095 0 28.568 5168VXK0008-603
S4B	LDO 1844 OFF 28.580 4535SW SEL ZERO
S1B	MDI 2308 ON 28.584 3768READ COMMAND
S1B S4B	-2- 234 READ 28.584
IU	MDI 2247 OFF 28.588 2618CONTROL VOLT A/B OR B/C
IU	MDI 0708 OFF 28.588 3407CNTL VOLTAGE OK B
IU	MDI 2243 OFF 28.588 5104GUID PWR OK A
IU	LDI 0983 ON 28.592 0463SW SEL READ
IU	LDI 1102 ON 28.592 0516SW SEL READ
S1B	MDI 1316 OFF 28.592 2153IU READY BYPASS
S1B	MDI 0042 OFF 28.592 2860IU READY IND
IU	MDI 0812 OFF 28.592 3512CONTROL VOLTAGE OK C
IU	MDI 0872 OFF 28.592 3560IU READY FOR LAUNCH
S1B	DDA 2029 ON 28.592 4080VK0128-404
IU	MDI 2239 OFF 28.592 5022IU READY FOR LAUNCH
IU	MDI 2240 OFF 28.592 5023IU READY FOR LAUNCH
S1B	DDA 2085 ON 28.592 5161VXK0006-603
S1B	MDI 2305 OFF 28.620 3765S-IVB STAGE SEL
S1B	MDI 2308 OFF 28.620 3768READ COMMAND
S4B	MDI 1844 ON 28.628 3928SW SEL ZERO
S4B	LDO 1844 ON 28.628 4535SW SEL ZERO
IU	MDI 0816 ON 28.632 3516REG CONT BIT 1 VERIFY IN
IU	MDI 0817 ON 28.632 3517REG CONT BIT 2 VERIFY IN

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	IU	MDI 0821 ON	28.632	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	28.632	3522REG CONT BIT 7 VERIFY IN
S11		DDA 2099 OFF	28.632	5172VXK0008-603
	IU	LDI 0983 OFF	28.636	0463SW SEL READ
	IU	LDI 1090 OFF	28.636	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	28.636	0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF	28.636	0514S-IVR STAGE SELECTOR
	IU	LDI 1102 OFF	28.636	0516SW SEL READ
S18		DDA 2085 OFF	28.636	5161VXK0006-603
S18		DDA 2088 OFF	28.636	5164VXK0005-603
S18		DDA 2094 OFF	28.636	5167VXK0008-603
S18		DDA 2095 OFF	28.636	5168VXK0008-603
S18		DDA 2100 OFF	28.636	5173VXK0008-603
	IU	LDI 1095 OFF	28.640	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	28.640	0511BIT NO 7 VERIFY
S18		DDA 2029 OFF	28.640	4080VK0128-404
S18	IU	MDI 2305 ON	28.644	3765S-IVR STAGE SEL
S4B		LDO 1844 OFF	28.644	4535SW SEL ZERO
	IU	LDI 1099 ON	28.648	0514S-IVR STAGE SELECTOR
S18		MDI 2187 OFF	28.648	2596TCS PULSE OK
	IU	MDI 0817 OFF	28.648	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 OFF	28.648	3522REG CONT BIT 7 VERIFY IN
S4B		MDI 1844 OFF	28.648	3928SW SEL ZERO
S18		DDA 2088 ON	28.648	5164VXK0005-603
	IU	MDI 0818 OFF	28.652	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	28.652	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	28.652	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	28.652	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2093 ON	28.656	5166VXK0008-603
S18		DDA 2096 ON	28.656	5169VXK0008-603
S18		DDA 2098 ON	28.656	5171VXK0008-603
S18		DDA 2099 ON	28.656	5172VXK0008-603
	IU	LDI 1091 ON	28.660	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	28.660	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	28.660	0509BIT NO 5 VERIFY
	IU	LDI 1097 ON	28.660	0512BIT NO 8 VERIFY
S18	IU	MDI 2305 OFF	28.676	3765S-IVR STAGE SEL
S18	IU	MDI 2307 ON	28.676	3767RESET COMMAND
S18 S4B	IU	-2- 151 RESET	28.676	
	IU	MDI 0817 ON	28.680	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	28.680	3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844 ON	28.680	3928SW SEL ZERO
S18		DDA 2084 ON	28.680	5160VXK0007-603
	IU	LDI 1091 OFF	28.684	0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF	28.684	0514S-IVR STAGE SELECTOR
	IU	LDI 1103 ON	28.684	0517RESET COMMAND

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TEST S18 FLT MAL CAT 100 70 11

	IU	MDI 0820 ON	28.684	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	28.684	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2093 OFF	28.684	5166VXK0008-603
S18		DDA 2098 OFF	28.684	5171VXK0008-603
S18		DDA 2099 OFF	28.684	5172VXK0008-603
	IU	LDI 1092 OFF	28.688	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	28.688	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	28.688	0512BIT NO 8 VERIFY
S4B		LDO 1844 ON	28.688	4535SW SEL ZERO
S18		DDA 2096 OFF	28.688	5169VXK0008-603
S18	IU	MDI 2307 OFF	28.692	3767RESET COMMAND
S18	IU	LDI 1099 0	28.700	0514S-IVB STAGE SELECTOR
S4B		MDI 1844 OFF	28.700	3928SW SEL ZERO
S18		DDA 2088 ON	28.700	5164VXK0005-603
S18	IU	LDI 1103 OFF	28.704	0517RESET COMMAND
	IU	MDI 0816 OFF	28.704	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	28.704	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	28.704	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822 OFF	28.704	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	28.704	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON	28.708	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	28.708	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	28.708	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	28.708	0511BIT NO 7 VERIFY
	IU	MDI 0818 ON	28.708	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF	28.708	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	28.708	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2094 ON	28.708	5167VXK0008-603
S18		DDA 2095 ON	28.708	5168VXK0008-603
S18		DDA 2100 ON	28.708	5173VXK0008-603
S18	IU	MDI 2308 ON	28.723	3768READ COMMAND
S18 S4B	IU	-2- 224 READ	28.728	
	IU	LDI 0983 ON	28.732	0463SW SEL READ
	IU	LDI 1102 ON	28.732	0516SW SEL READ
S4B		MDI 1713 OFF	28.732	3091LH CLDN PUMP INV PWR ON
S4B		MDI 1832 ON	28.732	3916LH CLDN RLY RESET
S18		DDA 2085 ON	28.732	5161VXK0006-603
S18		DDA 2029 ON	28.736	4080VK0128-404
S18		DDA 1083 ON	28.752	4022VK0086-009

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TEST SIM FLT MAL CAT 11

S17	IU	MDI 2305	OFF	28.764	3765S-IVB STAGE SEL
S17	IU	MDI 2306	OFF	28.764	3768READ COMMAND
S48	IU	MDI 1844	ON	28.772	3928SW SEL ZERO
	IU	LDI 0983	OFF	28.776	0463SW SEL READ
	IU	LDI 1099	OFF	28.776	0514S-IVB STAGE SELECTOR
	IU	LDI 1102	OFF	28.776	0516SW SEL READ
	IU	MDI 0816	ON	28.776	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	ON	28.776	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819	ON	28.776	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	ON	28.776	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	ON	28.776	3522REG CONT BIT 7 VERIFY IN
S18		DDA 2085	OFF	28.776	5161VXK0006-603
S18		DDA 2088	OFF	28.776	5164VXK0005-603
S18		DDA 2029	OFF	28.780	4080VK0128-404
	IU	LDI 1091	OFF	28.784	0506BIT NO 2 VERIFY
S18		DDA 2099	OFF	28.784	5172VXK0008-603
	IU	LDI 1090	OFF	28.788	0505BIT NO 1 VERIFY
	IU	LDI 1093	OFF	28.788	0508BIT NO 4 VERIFY
	IU	LDI 1095	OFF	28.788	0510BIT NO 6 VERIFY
	IU	LDI 1096	OFF	28.788	0511BIT NO 7 VERIFY
S18		DDA 2094	OFF	28.788	5167VXK0008-603
S18		DDA 2099	OFF	28.788	5172VXK0008-603
S18		DDA 2100	OFF	28.788	5173VXK0008-603
S18	IU	MDI 2305	ON	28.792	3765S-IVB STAGE SEL
S48	IU	MDI 1844	OFF	28.796	3928SW SEL ZERO
	IU	LDI 1091	ON	28.800	0506BIT NO 2 VERIFY
	IU	LDI 1093	ON	28.800	0508BIT NO 4 VERIFY
	IU	LDI 1095	ON	28.800	0510BIT NO 6 VERIFY
	IU	LDI 1096	ON	28.800	0511BIT NO 7 VERIFY
	IU	LDI 1099	ON	28.800	0514S-IVB STAGE SELECTOR
	IU	MDI 0816	OFF	28.800	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	OFF	28.800	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	28.800	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	28.800	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	28.800	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822	OFF	28.800	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	28.800	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2088	ON	28.800	5164VXK0005-603
S18		DDA 2094	ON	28.800	5167VXK0008-603
S18		DDA 2095	ON	28.800	5168VXK0008-603
S18		DDA 2099	ON	28.800	5172VXK0008-603
S18		DDA 2100	ON	28.800	5173VXK0008-603
	IU	LDI 1092	ON	28.808	0507BIT NO 3 VERIFY
	IU	LDI 1094	ON	28.808	0509BIT NO 5 VERIFY
	IU	LDI 1097	ON	28.808	0512BIT NO 8 VERIFY

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TEST SIM FLT MAL DAT 73 11

S1B		DDA 2093 ON	28.808	5166VXK0008-603
S1B		DDA 2096 ON	28.808	5169VXK0008-603
S1B		DDA 2098 ON	28.808	5171VXK0008-603
	IO	LDI 1095 OFF	28.812	0510BIT NO 6 VERIFY
S1B		DDA 2095 OFF	28.812	5168VXK0008-603
S1B	IO	MDI 2305 OFF	28.824	3765S-IVB STAGE SEL
S1B	IO	MDI 2307 ON	28.824	3767RESET COMMAND
S1B S4B	IO	-2- 040 RESET	28.824	
	S4B	MDI 1844 ON	28.828	3928SW SEL ZERO
	IO	LDI 1103 ON	28.832	0517RESET COMMAND
	IO	MDI 0816 ON	28.832	3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0817 ON	28.832	3517REG CONT BIT 2 VERIFY IN
	IO	MDI 0818 ON	28.832	3518REG CONT BIT 3 VERIFY IN
	IO	MDI 0819 ON	28.832	3519REG CONT BIT 4 VERIFY IN
	IO	MDI 0820 ON	28.832	3520REG CONT BIT 5 VERIFY IN
	IO	MDI 0822 ON	28.832	3522REG CONT BIT 7 VERIFY IN
	IO	MDI 0823 ON	28.832	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	28.832	5160VXK0007-603
S1B		DDA 2099 OFF	28.832	5172VXK0008-603
	IO	LDI 1090 OFF	28.836	0505BIT NO 1 VERIFY
	IO	LDI 1091 OFF	28.836	0506BIT NO 2 VERIFY
	IO	LDI 1092 OFF	28.836	0507BIT NO 3 VERIFY
	IO	LDI 1094 OFF	28.836	0509BIT NO 5 VERIFY
	IO	LDI 1097 OFF	28.836	0512BIT NO 8 VERIFY
	IO	LDI 1099 OFF	28.836	0514S-IVB STAGE SELECTOR
S1B		DDA 2088 OFF	28.836	5164VXK0005-603
S1B		DDA 2093 OFF	28.836	5166VXK0008-603
S1B		DDA 2094 OFF	28.836	5167VXK0008-603
S1B		DDA 2096 OFF	28.836	5169VXK0008-603
S1B		DDA 2100 OFF	28.836	5173VXK0008-603
	IO	LDI 1093 OFF	28.840	0508BIT NO 4 VERIFY
	IO	LDI 1096 OFF	28.840	0511BIT NO 7 VERIFY
S1B	IO	MDI 2305 ON	28.840	3765S-IVB STAGE SEL
S1B	IO	MDI 2307 OFF	28.840	3767RESET COMMAND
	IO	LDI 1099 ON	28.848	0514S-IVB STAGE SELECTOR
	S4B	MDI 1844 OFF	28.848	3928SW SEL ZERO
S1B		DDA 2088 ON	28.848	5164VXK0005-603
	IO	LDI 1103 OFF	28.852	0517RESET COMMAND
	IO	MDI 0816 OFF	28.852	3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0817 OFF	28.852	3517REG CONT BIT 2 VERIFY IN
	IO	MDI 0818 OFF	28.852	3518REG CONT BIT 3 VERIFY IN
	IO	MDI 0819 OFF	28.852	3519REG CONT BIT 4 VERIFY IN
	IO	MDI 0822 OFF	28.852	3522REG CONT BIT 7 VERIFY IN
	IO	MDI 0823 OFF	28.852	3523REG CONT BIT 8 VERIFY IN
1		DDA 2084 OFF	28.852	5160VXK 7-603

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TEST SIM FLT MAL RAT 000 75 11

	IU	MDI 0816 ON	28.356	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	28.356	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	28.356	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	28.356	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	28.356	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	28.356	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2095 ON	28.356	5168VXK0008-603
S1B		DDA 2095 OFF	28.356	5168VXK0008-603
	IU	LDI 1091 ON	28.360	0506BIT NO 2 VERIFY
	IU	LDI 1095 OFF	28.360	0510BIT NO 6 VERIFY
S1B	IU	MDI 2308 ON	28.372	3768READ COMMAND
S1B S4B	IU	-2- 335 READ	28.372	
S4B		MDI 1712 OFF	28.376	3090LOX CLDN PUMP INV PWR ON
S1B		LDO 0044 OFF	28.376	4183S-IB/S-IVB SEPARATION
S4B		MDI 1833 ON	28.380	3917LOX CLDN RELAY RESET
	IU	LDI 0983 ON	28.384	0463SW SEL READ
	IU	LDI 1102 ON	28.384	0516SW SEL READ
S1B		DDA 2029 ON	28.384	4080VK0128-404
	IU	LDO 0704 OFF	28.384	4830PLUGS CONNECTED
S1B		DDA 2085 ON	28.384	5161VXK0006-603
S1B	IU	MDI 2305 OFF	28.912	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	28.912	3768READ COMMAND
	IU	LDO 0600 OFF	28.912	4367ONE ENGINE OUT A
S4B		MDI 1844 ON	28.920	3928SW SEL ZERO
	IU	MDI 0817 ON	28.924	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	28.924	3518REG CONT BIT 3 VERIFY IN
S1B		DDA 2085 OFF	28.924	5161VXK0006-603
S1B		DDA 2085 OFF	28.924	5161VXK0006-603
	IU	LDI 0983 OFF	28.928	0463SW SEL READ
	IU	LDI 1091 OFF	28.928	0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF	28.928	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	28.928	0516SW SEL READ
S1B		DDA 2088 OFF	28.928	5164VXK0005-603
S1B		DDA 2088 OFF	28.928	5164VXK0005-603
	IU	LDI 1095 OFF	28.932	0510BIT NO 6 VERIFY
S1B		DDA 2029 OFF	28.932	4080VK0128-404
S1B	IU	MDI 2306 ON	28.936	3766IU STAGE SEL
	IU	LDI 1091 ON	28.940	0514S-IVB STAGE SELECTOR
	IU	MDI 0822 OFF	28.940	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2087 ON	28.940	5163VXK0005-603
	IU	MDI 0782 OFF	28.944	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	28.944	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	28.944	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	28.944	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	28.944	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	28.944	3523REG CONT BIT 8 VERIFY IN

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TEST SIM FLT MAL CAT 02 73 11

	IU	LDI 1092 ON	28.948	0507BIT NO 3 VERIFY
	IU	LDI 1096 ON	28.948	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	28.948	0512BIT NO 8 VERIFY
	IU	LDI 0662 OFF	28.948	4429ONE ENGINE OUT B
S1B		DDA 2086 OFF	28.948	5162VXK0003-603
S1B		DDA 2093 ON	28.948	5166VXK0008-603
S1B		DDA 2094 ON	28.948	5167VXK0008-603
S1B		DDA 2095 ON	28.948	5168VXK0008-603
S1B		DDA 2098 ON	28.948	5171VXK0008-603
S1B		DDA 2099 ON	28.948	5172VXK0008-603
	IU	LDI 1091 ON	28.952	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	28.952	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	28.952	0510BIT NO 6 VERIFY
S1B	IU	MDI 2306 OFF	28.968	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	28.968	3767RESET COMMAND
S1B S4B	IU	-3- 021 RESET	28.968	
	IU	MDI 0817 ON	28.972	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	28.972	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	28.972	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	28.972	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	28.972	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	28.972	5160VXK0007-603
	IU	LDI 1091 OFF	28.976	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	28.976	0507BIT NO 3 VERIFY
	IU	LDI 1103 ON	28.976	0517RESET COMMAND
	IU	MDI 0782 ON	28.976	3482SW SEL ZERO IND
	IU	MDI 0821 ON	28.976	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2086 ON	28.976	5162VXK0003-603
S1B		DDA 2087 OFF	28.976	5163VXK0005-603
S1B		DDA 2093 OFF	28.976	5166VXK0008-603
S1B		DDA 2098 OFF	28.976	5171VXK0008-603
S1B		DDA 2099 OFF	28.976	5172VXK0008-603
	IU	LDI 1092 OFF	28.980	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	28.980	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	28.980	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	28.980	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	28.980	0512BIT NO 8 VERIFY
S1B	IU	MDI 2306 ON	28.980	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	28.980	3767RESET COMMAND
S1B		DDA 2094 OFF	28.980	5167VXK0008-603
S1B		DDA 2095 OFF	28.980	5168VXK0008-603
	IU	LDI 1098 ON	28.992	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	28.992	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	28.992	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	28.992	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	28.992	3519REG CONT BIT 4 VERIFY IN

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TEST SIM FLT MAL CAT SUB 73 11

	IU	MDI 0821	OFF	28.992	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	28.992	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	28.992	3523REG CONT BIT 8 VERIFY IN
11		DDA 2084	OFF	28.992	5160VXK0007-603
11		DDA 2087	ON	28.992	5163VXK0005-603
	IU	LDI 1103	OFF	28.996	0517RESET COMMAND
	IU	MDI 0816	OFF	28.996	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818	ON	28.996	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	28.996	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	28.996	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	ON	28.996	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	ON	28.996	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	ON	28.996	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090	ON	29.000	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	29.000	0506BIT NO 2 VERIFY
	IU	LDI 1094	ON	29.000	0509BIT NO 5 VERIFY
11		DDA 2086	OFF	29.000	5162VXK0003-603
S1B		DDA 2096	ON	29.000	5169VXK0008-603
S1B		DDA 2099	ON	29.000	5172VXK0008-603
S1B		DDA 2100	ON	29.000	5173VXK0008-603
S1B	IU	MDI 2308	ON	29.016	3768READ COMMAND
11 148	IU				
S1B		MDI 2187	ON	29.020	2596TCS PULSE OK
11		DDA 2149	ON	29.023	4134VK0004-603
	IU	LDI 0983	ON	29.024	0463SW SEL READ
	IU	LDI 1102	ON	29.024	0516SW SEL READ
	IU	MDI 0636	OFF	29.024	3336SEQUENCE LOGIC ZERO
S1B		DDA 2085	ON	29.024	5161VXK0006-603
S1B	IU	MDI 2306	OFF	29.056	3766IU STAGE SEL
S1B	IU	MDI 2308	OFF	29.056	3768READ COMMAND
	IU	LDI 0983	OFF	29.068	0463SW SEL READ
	IU	LDI 1098	OFF	29.068	0513IU STAGE SELECTOR
	IU	LDI 1102	OFF	29.068	0516SW SEL READ
	IU	MDI 0782	ON	29.068	3482SW SEL ZERO IND
	IU	MDI 0816	ON	29.068	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	ON	29.068	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820	ON	29.068	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2085	OFF	29.068	5161VXK0006-603
S1B		DDA 2087	OFF	29.068	5163VXK0005-603
	IU	LDI 1091	OFF	29.076	0506BIT NO 2 VERIFY
S1B	IU	MDI 2306	ON	29.076	3766IU STAGE SEL
S1B		DDA 2149	OFF	29.076	4134VK0004-603
S1B		DDA 2086	ON	29.076	5162VXK0003-603
S1B		DDA 2096	OFF	29.076	5169VXK0008-603
S1B		DDA 2099	OFF	29.076	5172VXK0008-603
S1B		DDA 2100	OFF	29.076	5173VXK0008-603

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TEST S14 FLT HAL DAT RUN 73 11

	IU	LDI 1090 OFF 29.080 0505BIT NO 1 VERIFY
	IU	LDI 1094 OFF 29.080 0509BIT NO 5 VERIFY
S14		DDA 2087 ON 29.080 5163VXK0005-603
	IU	LDI 1098 ON 29.084 0513IU STAGE SELECTOR
	IU	MDI 0782 OFF 29.084 3482SW SEL ZERO IND
	IU	MDI 0816 OFF 29.084 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 29.084 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF 29.084 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF 29.084 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 29.084 3523REG CONT BIT 8 VERIFY IN
	IU	MDI 0820 ON 29.088 3520REG CONT BIT 5 VERIFY IN
	IU	LDI 1090 ON 29.092 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 29.092 0506BIT NO 2 VERIFY
	IU	LDI 1096 ON 29.092 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 29.092 0512BIT NO 8 VERIFY
S14		DDA 2093 ON 29.092 5166VXK0008-603
S1B		DDA 2094 ON 29.092 5167VXK0008-603
S1B		DDA 2099 ON 29.092 5172VXK0008-603
S1B		DDA 2100 ON 29.092 5173VXK0008-603
S1B		DDA 0220 OFF 29.116 2359SPARE
S1B		LDO 0863 OFF 29.184 5013CTL VOLTAGE OK A
S1B	IU	MDI 2308 ON 29.188 3768READ COMMAND
S1B S48	IU	-3- 074 READ 29.188
	IU	LDI 0983 ON 29.192 0463SW SEL READ
	IU	LDI 1102 ON 29.192 0516SW SEL READ
S14		DDA 2085 ON 29.192 5161VXK0006-603
S14		DDA 2149 ON 29.196 4134VK0004-603
S14		LDO 0103 OFF 29.224 4242OK TO START HYD PUMPS IN
S14	IU	MDI 2308 OFF 29.228 3768READ COMMAND
S14	IU	LDI 0983 OFF 29.236 0463SW SEL READ
	IU	LDI 1098 OFF 29.236 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 29.236 0516SW SEL READ
S14		DDA 2087 OFF 29.236 5163VXK0005-603
	IU	MDI 0782 ON 29.240 3482SW SEL ZERO IND
	IU	MDI 0816 ON 29.240 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 29.240 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 ON 29.240 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 29.240 3523REG CONT BIT 8 VERIFY IN
S14		DDA 2149 OFF 29.240 4134VK0004-603
S14		DDA 2099 OFF 29.240 5172VXK0008-603
	IU	LDI 1090 OFF 29.244 0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF 29.244 0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF 29.244 0512BIT NO 8 VERIFY

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TEST SIM FLT MAL DAT 000 73 11

S11		DDA 2093 OFF 29.244 5166VXK0008-603
S11		DDA 2094 OFF 29.244 5167VXK0008-603
S11		DDA 2100 OFF 29.244 5173VXK0008-603
	IU	LDI 1096 OFF 29.248 0511BIT NO 7 VERIFY
	IU	LDO 0708 OFF 29.248 4728CNTL VOLTAGE OK B
S11		DDA 2086 ON 29.248 5162VXK0003-603
S11	IU	MDI 2305 ON 29.252 3765S-IVB STAGE SEL
	IU	MDI 0817 OFF 29.256 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF 29.256 3521REG CONT BIT 6 VERIFY IN
		MDI 1844 OFF 29.256 3928SW SEL ZERO
S11		LDO 0042 OFF 29.256 4181IU READY IND
S11		DDA 2088 ON 29.256 5164VXK0005-603
	IU	LDI 1099 ON 29.260 0514S-IVB STAGE SELECTOR
	IU	MDI 0818 OFF 29.260 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 29.260 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF 29.260 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 29.260 3523REG CONT BIT 8 VERIFY IN
S11		DDA 2093 ON 29.264 5166VXK0008-603
S11		DDA 2094 ON 29.264 5167VXK0008-603
S11		DDA 2098 ON 29.264 5171VXK0008-603
S11		DDA 2099 ON 29.264 5172VXK0008-603
	IU	LDI 1091 ON 29.268 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 29.268 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 29.268 0508BIT NO 4 VERIFY
	IU	LDI 1095 ON 29.268 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 29.268 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 29.268 0512BIT NO 8 VERIFY
S11		DDA 2095 ON 29.268 5168VXK0008-603
S11	IU	MDI 2305 OFF 29.280 3765S-IVB STAGE SEL
S11	IU	MDI 2307 ON 29.280 3767RESET COMMAND
S11	IU	-2- 021 RESET 29.280
		MDI 1844 ON 29.284 3928SW SEL ZERO
	IU	MDI 0817 ON 29.288 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 29.288 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 29.288 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON 29.288 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 29.288 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF 29.292 0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF 29.292 0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON 29.292 0517RESET COMMAND
	IU	MDI 0821 ON 29.292 3521REG CONT BIT 6 VERIFY IN
S18		LDO 0812 OFF 29.292 5017CONTROL VOLTAGE OK C
S11		DDA 2084 ON 29.292 5160VXK0007-603
S11		DDA 2086 OFF 29.292 5164VXK0005-603
S11		DDA 2093 OFF 29.292 5166VXK0008-603
S11		DDA 2096 OFF 29.292 5171VXK0008-603

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S14		DDA 2099 OFF 29.292 5172VXK0008-603
	IU	LDI 1092 OFF 29.296 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 29.296 0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF 29.296 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 29.296 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 29.296 0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON 29.296 3765S-IVR STAGE SEL
S1B	IU	MDI 2307 OFF 29.296 3767RESET COMMAND
S1B		DDA 2094 OFF 29.296 5167VXK0008-603
S1B		DDA 2095 OFF 29.296 5168VXK0008-603
S1B		LDO 0872 OFF 29.300 4657IU READY FOR LAUNCH
	IU	LDI 1099 ON 29.308 0514S-IVR STAGE SELECTOR
	IU	MDI 0817 OFF 29.308 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 29.308 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 29.308 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF 29.308 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 29.308 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 29.308 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 29.308 3928SW SEL ZERO
S1B		DDA 2084 OFF 29.308 5160VXK0007-603
S1B		DDA 2088 ON 29.308 5164VXK0005-603
	IU	LDI 1103 OFF 29.312 0517RESET COMMAND
	IU	MDI 0816 OFF 29.312 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON 29.312 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 29.312 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 29.312 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 29.312 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 29.312 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 29.312 3523REG CONT BIT 8 VERIFY IN
S4B		LDO 1844 OFF 29.312 4535SW SEL ZERO
	IU	LDI 1090 ON 29.316 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 29.316 0506BIT NO 2 VERIFY
	IU	LDI 1094 ON 29.316 0509BIT NO 5 VERIFY
S1B		DDA 2096 ON 29.316 5169VXK0008-603
S1B		DDA 2099 ON 29.316 5172VXK0008-603
S1B		DDA 2100 ON 29.316 5173VXK0008-603
S1B	IU	MDI 2308 ON 29.332 3768READ COMMAND
S1B S4B	IU	-2- 354 READ 29.332
S4B		MDI 1818 OFF 29.336 3906ENG START RELAYS RESET
	IU	LDI 0983 ON 29.340 0463SW SEL READ
	IU	LDI 1102 ON 29.340 0516SW SEL READ
S4B		MDI 1803 OFF 29.340 3836ENG HE CONT SOL ENERGIZE
S4B		MDI 1806 ON 29.340 3836ENG HE CONT SOL ENERGIZE
S4B		MDI 1933 OFF 29.340 3942ENGINE READY
S4B		MDI 2741 ON 29.340 4986SPARK SYS 1 TEST ON
S4B		MDI 2742 ON 29.340 4987SPARK SYS 2 TEST ON

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S1B		DDA 2085 ON	29.340	5161VXK0006-603
S1B		DDA 2029 ON	29.344	4080VK0128-404
S1B		DDA 3004 ON	29.344	5341VK0011-401
S1B		DDA 3005 ON	29.344	5342VK0010-401
S1B		DDA 3010 ON	29.344	5346VK0021-404
S4B		MDI 1809 OFF	29.348	3839MAIN FUEL VLV CLOSED
S1B		DDA 3008 ON	29.352	5344VK0006-401
S1B	IO	MDI 2305 OFF	29.368	3765S-IVB STAGE SEL
S1B	IO	MDI 2308 OFF	29.368	3768READ COMMAND
S4B		LDO 1844 ON	29.368	4535SW SEL ZERO
	IO	LDI 0983 OFF	29.376	0463SW SEL READ
	IO	LDI 1099 OFF	29.376	0514S-IVB STAGE SELECTOR
	IO	LDI 1102 OFF	29.376	0516SW SEL READ
S1B		DDA 2088 OFF	29.376	5164VXK0005-603
S1B		MDI 1844 ON	29.380	3928SW SEL ZERO
	IO	LDI 1091 OFF	29.384	0506BIT NO 2 VERIFY
	IO	MDI 0816 ON	29.384	3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0817 ON	29.384	3517REG CONT BIT 2 VERIFY IN
	IO	MDI 0820 ON	29.384	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2099 OFF	29.384	5172VXK0008-603
S1B		DDA 2100 OFF	29.384	5173VXK0008-603
	IO	LDI 1090 OFF	29.388	0505BIT NO 1 VERIFY
	IO	LDI 1094 OFF	29.388	0509BIT NO 5 VERIFY
S4B		MDI 1811 ON	29.388	3721ASI NO.1/MUX ON
S4B		MDI 1813 ON	29.388	3901ASI NO.2/MUX ON
S1B		DDA 2029 OFF	29.388	4080VK0128-404
S1B		DDA 2096 OFF	29.388	5169VXK0008-603
S1B	IO	MDI 2305 ON	29.392	3765S-IVB STAGE SEL
S4B		MDI 1812 ON	29.396	3900GG NO.1/MUX ON
S4B		MDI 1814 ON	29.396	3902GG NO2 OK
S4B		MDI 1844 OFF	29.396	3928SW SEL ZERO
	IO	LDI 1099 ON	29.400	0514S-IVB STAGE SELECTOR
	IO	MDI 0817 OFF	29.400	3517REG CONT BIT 2 VERIFY IN
	IO	MDI 0821 OFF	29.400	3521REG CONT BIT 6 VERIFY IN
	IO	MDI 0823 OFF	29.400	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	29.400	5164VXK0005-603
	IO	LDI 1091 ON	29.408	0506BIT NO 2 VERIFY
	IO	LDI 1095 ON	29.408	0510BIT NO 6 VERIFY
	IO	LDI 1097 ON	29.408	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	29.408	5166VXK0008-603
S1B		DDA 2095 ON	29.408	5168VXK0008-603
S1B		DDA 2099 ON	29.408	5172VXK0008-603
S1B		DDA 3045 ON	29.412	5359VK0216-404
S4B		MDI 1807 ON	29.420	3837FUEL BLEED VALVE CLOSED
S4B		MDI 1709 OFF	29.424	3087LH CLDN PUMP READY TO ST

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S4B		MDI 1708 OFF 29.428 3006LOX CLDN PUMP RDY TO ST
S4B		MDI 1808 ON 29.428 3838LOX BLEED VALVE CLOSED
S4B		MDI 1810 ON 29.448 3720ASI LOX VLV OPEN
S1B		DDA 3036 ON 29.488 5351VK0118-401
S4B		LDO 1723 OFF 29.512 4784ENGINE START DISABLE
S4B		LDO 1844 OFF 29.564 4535SW SEL ZERO
S4B		LDO 1844 ON 29.572 4535SW SEL ZERO
S4B		LDO 1844 OFF 29.616 4535SW SEL ZERO
S1B		MDI 2187 OFF 29.648 2596TCS PULSE OK
S1B	IU	MDI 2305 ON 29.788 3768READ COMMAND
S1B	S4B IU	-2- 135 READ 29.788
	S4B	MDI 1818 ON 29.792 3906ENG START RELAYS RESET
	IU	LDI 0983 ON 29.800 0463SW SEL READ
	IU	LDI 1102 ON 29.800 0516SW SEL READ
S1B		DDA 2029 ON 29.800 4080VK0128-404
S1B		DDA 2085 ON 29.800 5161VXK0006-603
S1B		DDA 3010 OFF 29.804 5346VK0021-404
S1B	IU	MDI 2305 OFF 29.828 3765S-IVR STAGE SEL
S1B	IU	MDI 2308 OFF 29.828 3768READ COMMAND
S1B		DDA 3045 OFF 29.832 5359VK0216-404
	IU	MDI 0817 ON 29.840 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0823 ON 29.840 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 ON 29.840 3928SW SEL ZERO
	IU	LDI 0983 OFF 29.844 0463SW SEL READ
	IU	LDI 1099 OFF 29.844 0514S-IVR STAGE SELECTOR
	IU	LDI 1102 OFF 29.844 0516SW SEL READ
	IU	MDI 0821 ON 29.844 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2085 OFF 29.844 5161VXK0006-603
S1B		DDA 2088 OFF 29.844 5164VXK0005-603
S1B		DDA 2029 OFF 29.848 4080VK0128-404
S1B		DDA 2099 OFF 29.848 5172VXK0008-603
	IU	LDI 1091 OFF 29.852 0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF 29.852 0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON 29.852 3765S-IVR STAGE SEL
S1B		DDA 2093 OFF 29.852 5166VXK0008-603
	IU	LDI 1095 OFF 29.856 0510BIT NO 6 VERIFY
	IU	LDI 1099 ON 29.856 0514S-IVR STAGE SELECTOR
S4B		MDI 1844 OFF 29.856 3928SW SEL ZERO
S1B		DDA 2088 ON 29.856 5164VXK0005-603
S1B		DDA 2095 OFF 29.856 5168VXK0008-603
	IU	MDI 0817 OFF 29.860 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 29.860 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 29.860 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF 29.860 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON 29.864 5166VXK0008-603
S1B		DDA 2098 ON 29.864 5171VXK0008-603

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S1		DDA 2099 ON	29.864	5172VXK0008-603
	IU	LDI 1092 ON	29.868	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	29.868	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	29.868	0508BIT NO 4 VERIFY
	IU	LDI 1097 ON	29.868	0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 OFF	29.884	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	29.884	3767RESET COMMAND
S1B S4B	IU	-2- 161 RESET	29.884	
	S4B	MDI 1844 ON	29.888	3928SW SEL ZERO
S1B		DDA 2084 ON	29.888	5160VXK0007-603
	IU	LDI 1099 OFF	29.892	0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON	29.892	0517RESET COMMAND
	IU	MDI 0817 ON	29.892	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	29.892	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	29.892	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	29.892	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF	29.892	5164VXK0005-603
	IU	LDI 1091 OFF	29.900	0506BIT NO 2 VERIFY
S1B		DDA 2098 OFF	29.900	5171VXK0008-603
S1B		DDA 2099 OFF	29.900	5172VXK0008-603
	IU	LDI 1092 OFF	29.904	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	29.904	0508BIT NO 4 VERIFY
	IU	LDI 1097 OFF	29.904	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	29.904	5166VXK0008-603
S1B	IU	MDI 2305 ON	29.920	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	29.920	3767RESET COMMAND
	IU	LDI 1099 ON	29.932	0514S-IVB STAGE SELECTOR
	IU	MDI 0818 OFF	29.932	3518REG CONT BIT 3 VERIFY IN
	S4B	MDI 1844 OFF	29.932	3928SW SEL ZERO
S1B		DDA 2084 OFF	29.932	5160VXK0007-603
	IU	LDI 1103 OFF	29.936	0517RESET COMMAND
	IU	MDI 0816 OFF	29.936	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	29.936	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	29.936	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	29.936	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	29.936	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	29.936	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2084 OFF	29.936	5160VXK0007-603
	IU	LDI 1090 ON	29.940	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	29.940	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	29.940	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	29.940	0511BIT NO 7 VERIFY
S1B		DDA 2094 ON	29.940	5167VXK0008-603
S1B		DDA 2095 ON	29.940	5168VXK0008-603
S1B		DDA 2096 ON	29.940	5169VXK0008-603
S1B		DDA 2099 ON	29.940	5172VXK0008-603

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S1B		DDA 2100 ON	29.940	5173VXK0008-603
	IU	LDI 1095 ON	29.944	0510BIT NO 6 VERIFY
	IU	LDO 0636 OFF	29.960	4403SEQUENCE LOGIC ZERO
S1B		MDI 2187 ON	30.020	2596TCS PULSE OK
	S4B	LDO 1844 ON	30.152	4535SW SEL ZERO
	S4B	LDO 1844 OFF	30.188	4535SW SEL ZERO
	S4B	LDO 1844 ON	30.204	4535SW SEL ZERO
	S4B	LDO 1844 OFF	30.215	4535SW SEL ZERO
	S4B	LDO 1713 OFF	30.224	4774LH CLDN PUMP INV PWR ON
	S4B	LDO 1844 ON	30.237	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	30.284	3768READ COMMAND
S1B	S4B	-2- 214 READ	30.284	
	S4B	LDO 1844 ON	30.284	4535SW SEL ZERO
	S4B	MDI 1763 ON	30.288	3797MAINSTG ENABLE REL SET
	IU	LDI 0983 ON	30.292	0463SW SEL READ
	IU	LDI 1102 ON	30.292	0516SW SEL READ
	S4B	MDI 1700 ON	30.292	2205PRELAUNCH C/O GRP PWR ON
	S4B	MDI 1670 ON	30.292	3062STATUS SAFETY BUS ON
S1B		DDA 2029 ON	30.292	4080VXK0128-404
S1B		DDA 2085 ON	30.292	5161VXK0006-603
	S4B	LDO 1844 OFF	30.296	4535SW SEL ZERO
	S4B	MDI 1815 OFF	30.300	3903START TANK DSC VLV CLOSE
S1B		DDA 3002 ON	30.304	5340VXK0096-401
	S4B	LDO 1844 ON	30.312	4535SW SEL ZERO
S1B	IU	MDI 2305 OFF	30.320	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	30.320	3768READ COMMAND
	S4B	LDO 1844 OFF	30.324	4535SW SEL ZERO
	IU	MDI 0816 ON	30.332	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	30.332	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	30.332	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	30.332	3522REG CONT BIT 7 VERIFY IN
	S4B	MDI 1844 ON	30.332	3928SW SEL ZERO
S1B		DDA 2085 OFF	30.332	5161VXK0006-603
	IU	LDI 0983 OFF	30.336	0463SW SEL READ
	IU	LDI 1099 OFF	30.336	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	30.336	0516SW SEL READ
	IU	MDI 0821 ON	30.336	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2088 OFF	30.336	5164VXK0005-603
S1B		DDA 2029 OFF	30.340	4080VXK0128-404
S1B		DDA 2099 OFF	30.340	5172VXK0008-603
	IU	LDI 1090 OFF	30.344	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	30.344	0506BIT NO 2 VERIFY
S1B		DDA 2094 OFF	30.344	5167VXK0008-603
S1B		DDA 2095 OFF	30.344	5168VXK0008-603
S1B		DDA 2096 OFF	30.344	5169VXK0008-603
S1B		DDA 2100 OFF	30.344	5173VXK0008-603

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	LDI 1094 OFF 30.348 0509BIT NO 5 VERIFY
	LDI 1095 OFF 30.348 0510BIT NO 6 VERIFY
	LDI 1096 OFF 30.348 0511BIT NO 7 VERIFY
S4B	LDO 1712 OFF 30.356 4773LOX CLDN PUMP INV PWR ON
S4B	LDO 1833 ON 30.368 4524LOX CLDN RELAY RESET
S4B	LDO 1844 ON 30.376 4535SW SEL ZERO
S4B	LDO 1844 OFF 30.420 4535SW SEL ZERO
S4B	LDO 1844 ON 30.424 4535SW SEL ZERO
S4B	LDO 1844 OFF 30.440 4535SW SEL ZERO
S4B	LDO 1818 OFF 30.448 4513ENG START RELAYS RESET
S4B	LDO 1806 ON 30.480 4501ENG HE CONT SOL ENERGIZE
S1B	DDA 3032 ON 30.488 5349VK0122-401
S4B	LDO 1933 OFF 30.496 4550ENGINE READY
S4B	LDO 1809 OFF 30.548 4504MAIN FUEL VLV CLOSED
S4B	LDO 1844 ON 30.552 4535SW SEL ZERO
S1B	LDO 1811 ON 30.560 4506ASI NO.1/MUX ON
S1B	LDO 1812 ON 30.612 4507GG NO.1/MUX ON
S4B	LDO 1814 ON 30.612 4509GG NO2 OK
S4B	LDO 1844 OFF 30.624 4535SW SEL ZERO
S4B	LDO 1807 ON 30.628 4502FUEL BLEED VALVE CLOSED
S4B	LDO 1709 OFF 30.640 4770LH CLDN PUMP READY TO ST
S1B	MDI 2187 OFF 30.648 2596TCS PULSE OK
S4B	LDO 1808 ON 30.676 4503LOX BLEED VALVE CLOSED
S4B	LDO 1708 OFF 30.688 4769LOX CLDN PUMP RDY TO ST
S4B	LDO 1810 ON 30.696 4505ASI LOX VLV OPEN
S4B	LDO 1818 ON 30.828 4513ENG START RELAYS RESET
S4B	LDO 1844 ON 30.840 4535SW SEL ZERO
S4B	LDO 1844 OFF 30.876 4535SW SEL ZERO
S4B	LDO 1844 ON 30.884 4535SW SEL ZERO
S4B	LDO 1844 OFF 30.896 4535SW SEL ZERO
S4B	LDO 1763 ON 30.944 4462MAINSTG ENABLE REL SET
S4B	LDO 1815 OFF 30.960 4510START TANK DSC VLV CLOSE
S4B	LDO 1844 ON 30.968 4535SW SEL ZERO
S1B	MDI 2187 ON 31.020 2596TCS PULSE OK
S4B	MDO 1700 OFF 31.084 2205PRELAUNCH C/O GRP PWR ON
S4B	MDI 1670 OFF 31.084 3062STATUS SAFETY BUS ON
S4B	MDI 1816 OFF 31.092 3904GG VLV CLOSED
S4B	MDI 1817 OFF 31.092 3905MAIN LOX VLV CLOSED
S1B	DDA 3009 ON 31.092 5345VK0005-401
S4B	MDI 1815 ON 31.096 3903START TANK DSC VLV CLOSE
S1B	DDA 3002 OFF 31.096 5340VK0096-401
S1B	DDA 3032 OFF 31.172 5349VK0122-401
S4B	LDO 1816 OFF 31.204 4511GG VLV CLOSED
S4B	LDO 1817 OFF 31.208 4512MAIN LOX VLV CLOSED

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S4B	LDO 1815 ON	31.212	4510START TANK DSC VLV CLOSE
S1B	DDA 3037 ON	31.240	5352VK0117-401
IU	MDO 1906 ON	31.320	1603EDS RG PITCH AXIS SEL ON
IU	MDI 0631 ON	31.324	3331EDSRG PITCH AXIS SELECT
IU	LDO 0631 ON	31.384	4398EDSRG PITCH AXIS SELECT
S1B	MDI 2167 OFF	31.648	2596TCS PULSE OK
S1B	IU MDI 2305 ON	31.736	3765S-IVB STAGE SEL
IU	LDI 1099 ON	31.740	0514S-IVB STAGE SELECTOR
S4B	MDI 1844 OFF	31.740	3928SW SEL ZERO
S1B	DDA 2088 ON	31.740	5164VXK0005-603
IU	MDI 0817 OFF	31.744	3517REG CONT BIT 2 VERIFY IN
IU	MDI 0818 OFF	31.744	3518REG CONT BIT 3 VERIFY IN
IU	MDI 0821 OFF	31.744	3521REG CONT BIT 6 VERIFY IN
IU	MDI 0822 OFF	31.744	3522REG CONT BIT 7 VERIFY IN
IU	MDI 0823 OFF	31.744	3523REG CONT BIT 8 VERIFY IN
IU	LDI 1091 ON	31.748	0506BIT NO 2 VERIFY
IU	LDI 1092 ON	31.748	0507BIT NO 3 VERIFY
IU	LDI 1096 ON	31.748	0511BIT NO 7 VERIFY
IU	LDI 1097 ON	31.748	0512BIT NO 8 VERIFY
S1B	DDA 2093 ON	31.748	5166VXK0008-603
S1B	DDA 2094 ON	31.748	5167VXK0008-603
S1B	DDA 2095 ON	31.748	5168VXK0008-603
S1B	DDA 2098 ON	31.748	5171VXK0008-603
S1B	DDA 2099 ON	31.748	5172VXK0008-603
IU	LDI 1095 ON	31.752	0510BIT NO 6 VERIFY
S4B	LDO 1844 OFF	31.796	4535SW SEL ZERO
S1B	IU MDI 2308 ON	31.872	3768READ COMMAND
S1B	S4B IU -2- Q31 READ	31.872	
S1B	DDA 2085 ON	31.880	5161VXK0006-603
IU	LDI 0983 ON	31.884	0463SW SEL READ
IU	LDI 1102 ON	31.884	0516SW SEL READ
S1B	DDA 2029 ON	31.884	4080VK0128-404
S1B	IU MDI 2305 OFF	31.904	3765S-IVB STAGE SEL
S1B	IU MDI 2308 OFF	31.904	3768READ COMMAND
S4B	MDI 1844 ON	31.912	3928SW SEL ZERO
IU	MDI 0817 ON	31.916	3517REG CONT BIT 2 VERIFY IN
IU	MDI 0818 ON	31.916	3518REG CONT BIT 3 VERIFY IN
IU	MDI 0821 ON	31.916	3521REG CONT BIT 6 VERIFY IN
IU	MDI 0822 ON	31.916	3522REG CONT BIT 7 VERIFY IN
IU	MDI 0823 ON	31.916	3523REG CONT BIT 8 VERIFY IN
S1B	DDA 2085 OFF	31.916	5161VXK0006-603
IU	LDI 0983 OFF	31.920	0463SW SEL READ
IU	LDI 1099 OFF	31.920	0514S-IVB STAGE SELECTOR
IU	LDI 1102 OFF	31.920	0516SW SEL READ
IU	LDI 1091 OFF	31.924	0506BIT NO 2 VERIFY

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S16		DDA 2029	OFF	31.924	4080VK0128-404
S18		DDA 2099	OFF	31.924	5172VXK0008-603
	IU	LDI 1092	OFF	31.928	0507BIT NO 3 VERIFY
	IU	LDI 1096	OFF	31.928	0511BIT NO 7 VERIFY
	IU	LDI 1097	OFF	31.928	0512BIT NO 6 VERIFY
		DDA 2093	OFF	31.928	5166VXK0008-603
		DDA 2094	OFF	31.928	5167VXK0008-603
		DDA 2095	OFF	31.928	5168VXK0008-603
		DDA 2098	OFF	31.928	5171VXK0008-603
	IU	LDI 1095	OFF	31.932	0510BIT NO 6 VERIFY
	348	LDO 1844	ON	31.964	4535SW SEL ZERO
		MDI 2187	ON	32.020	2596TCS PULSE OK
		DDA 3004	OFF	32.072	5341VK0011-401
		DDA 3005	OFF	32.072	5342VK0010-401
	348	MDI 1813	OFF	32.100	3901ASI NO.2/MUX ON
	348	MDI 1812	OFF	32.104	3900GG NO.1/MUX ON
	348	MDI 1811	OFF	32.120	3721ASI NO.1/MUX ON
	348	MDI 1814	OFF	32.140	3902GG NO2 OK
		LDO 1813	OFF	32.156	4508ASI NO.2/MUX ON
		LDO 1812	OFF	32.168	4507GG NO.1/MUX ON
		LDO 1811	OFF	32.216	4506ASI NO.1/MUX ON
	348	LDO 1814	OFF	32.264	4509GG NO2 OK
	IU	MDO 0891	OFF	32.500	2085CMD SIVB ENG OUT SIM B
	IU	MDO 0897	OFF	32.500	2091CMD SIVB ENG OUT SIM A
	348	LDI 1036	ON	32.572	0497MAIN STAGE NO 1 OK
	348	DDA 3038	ON	32.572	5353VK0014-401
		LDI 1037	ON	32.580	0498MAIN STAGE NO 2 OK
		MDI 2187	OFF	32.648	2596TCS PULSE OK
		MDI 2187	ON	33.020	2596TCS PULSE OK
	IU	MDO 0695	ON	33.088	2027RAMP NEG
	IU	MDI 0889	OFF	33.092	3577RAMP IND
	IU	MDI 2236	OFF	33.112	2605RAMP NO 1 ZERO
	IU	MDI 2237	OFF	33.112	2606RAMP NO 2 ZERO
	IU	MDI 2238	OFF	33.112	2607RAMP NO 3 ZERO
	IU	LDO 0889	ON	33.144	4674RAMP IND
		DDA 2124	OFF	33.464	4118VR0030-602
S18		MDI 2187	OFF	33.648	2596TCS PULSE OK
S18	IU	LDO 0734	ON	33.680	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	33.720	4859MODE CODE 2 IND
S18		MDI 2187	ON	34.020	2596TCS PULSE OK
S18		MDI 2187	OFF	34.648	2596TCS PULSE OK
	IU	LDO 0734	ON	34.772	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	34.812	4859MODE CODE 2 IND
		MDI 2187	ON	35.020	2596TCS PULSE OK
	IU	MDI 2305	ON	35.120	3765S-IVB STAGE SEL

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S4B		MDI 1844 OFF 35.124 3928SW SEL ZERO
IU		MDI 0817 OFF 35.128 3517REG CONT BIT 2 VERIFY IN
IU		MDI 0820 OFF 35.128 3520REG CONT BIT 5 VERIFY IN
IU		MDI 0822 OFF 35.128 3522REG CONT BIT 7 VERIFY IN
IU		MDI 0823 OFF 35.128 3523REG CONT BIT 8 VERIFY IN
IU		LDI 1091 ON 35.132 0506BIT NO 2 VERIFY
IU		LDI 1094 ON 35.132 0509BIT NO 5 VERIFY
IU		LDI 1096 ON 35.132 0511BIT NO 7 VERIFY
IU		LDI 1097 ON 35.132 0512BIT NO 8 VERIFY
IU		LDI 1099 ON 35.132 0514S-IVB STAGE SELECTOR
S1B		DDA 2088 ON 35.132 5164VXK0005-603
S1B		DDA 2093 ON 35.132 5166VXK0008-603
S1B		DDA 2094 ON 35.132 5167VXK0008-603
S1B		DDA 2096 ON 35.132 5169VXK0008-603
S1B		DDA 2099 ON 35.132 5172VXK0008-603
S4B		LDO 1844 OFF 35.176 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 35.272 3768READ COMMAND
S1B	S4B IU	-2- 055 READ 35.272
S1B		DDA 2085 ON 35.280 5161VXK0006-603
	IU	LDI 0983 ON 35.284 0463SW SEL READ
	IU	LDI 1102 ON 35.284 0516SW SEL READ
S1B		DDA 2029 ON 35.284 4080VK0128-404
S1B	IU	MDI 2305 OFF 35.316 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 35.316 3768READ COMMAND
S4B		MDI 1844 ON 35.324 3928SW SEL ZERO
S1B		DDA 2085 OFF 35.324 5161VXK0006-603
S1B		DDA 2088 OFF 35.324 5164VXK0005-603
	IU	LDI 0983 OFF 35.328 0463SW SEL READ
	IU	LDI 1099 OFF 35.328 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 35.328 0516SW SEL READ
	IU	MDI 0817 ON 35.328 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON 35.328 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON 35.328 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 35.328 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF 35.332 0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF 35.332 5172VXK0008-603
	IU	LDI 1094 OFF 35.336 0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF 35.336 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 35.336 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 35.336 5166VXK0008-603
S1B		DDA 2094 OFF 35.336 5167VXK0008-603
S1B		DDA 2096 OFF 35.336 5169VXK0008-603
S1B	IU	MDI 2305 ON 35.340 3765S-IVB STAGE SEL
S1B		DDA 2029 OFF 35.340 4080VK0128-404
	IU	MDI 0817 OFF 35.344 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF 35.344 3520REG CONT BIT 5 VERIFY IN

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	IU	MDI 0822 OFF	35.344	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	35.344	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	35.344	3928SW SEL ZERO
	IU	LDI 1090 ON	35.348	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	35.348	0506BIT NO 2 VERIFY
	IU	LDI 1095 ON	35.348	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	35.348	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	35.348	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	35.348	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	35.348	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0820 ON	35.348	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	35.348	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2088 ON	35.348	5164VXK0005-603
S1B		DDA 2093 ON	35.348	5166VXK0008-603
S1B		DDA 2094 ON	35.348	5167VXK0008-603
S1B		DDA 2095 ON	35.348	5168VXK0008-603
S1B		DDA 2099 ON	35.348	5172VXK0008-603
S1B		DDA 2100 ON	35.348	5173VXK0008-603
S1B	IU	MDI 2305 OFF	35.372	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	35.372	3767RESET COMMAND
S1B S4B	IU	-2- 034 RESET	35.372	
S4B		MDI 1844 ON	35.376	3928SW SEL ZERO
	IU	LDI 1103 ON	35.380	0517RESET COMMAND
	IU	MDI 0816 ON	35.380	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	35.380	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 ON	35.380	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	35.380	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	35.380	3523REG CONT BIT 8 VERIFY IN
S4B		LDI 1844 ON	35.380	4535SW SEL ZERO
S1B		DDA 2084 ON	35.380	5160VXK0007-603
	IU	LDI 1091 OFF	35.384	0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF	35.384	0514S-IVB STAGE SELECTOR
S1B		DDA 2088 OFF	35.384	5164VXK0005-603
S1B		DDA 2093 OFF	35.384	5166VXK0008-603
S1B		DDA 2099 OFF	35.384	5172VXK0008-603
S1B		DDA 2100 OFF	35.384	5173VXK0008-603
	IU	LDI 1090 OFF	35.388	0505BIT NO 1 VERIFY
	IU	LDI 1095 OFF	35.388	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	35.388	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	35.388	0512BIT NO 8 VERIFY
S1B		DDA 2094 OFF	35.388	5167VXK0008-603
S1B		DDA 2095 OFF	35.388	5168VXK0008-603
S1B	IU	MDI 2305 ON	35.396	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	35.396	3767RESET COMMAND
	IU	LDI 1099 ON	35.408	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	35.408	3516REG CONT BIT 1 VERIFY IN

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	IU	MDI 0817 OFF 35.408 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 35.408 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF 35.408 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 35.408 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 35.408 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 35.408 3928SW SEL ZERO
S1B		DDA 2084 OFF 35.408 5160VXK0007-603
S1B		DDA 2085 OFF 35.408 5161VXK0005-603
	IU	LDI 1103 OFF 35.412 0517RESET COMMAND
	IU	MDI 0816 ON 35.412 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 OFF 35.412 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 35.412 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 35.412 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 35.412 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 35.412 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF 35.416 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 35.416 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 35.416 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 35.416 0509BIT NO 5 VERIFY
S1B		DDA 2086 OFF 35.416 5162VXK0008-603
S1B		DDA 2098 ON 35.416 5171VXK0008-603
S1B		DDA 2099 ON 35.416 5172VXK0008-603
S4B		LDO 1844 OFF 35.420 4535SW SEL ZERO
S4B		LDO 1844 ON 35.468 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 35.472 3768READ COMMAND
S1B S4B	IU	-2- 341 READ 35.472
S4B		MDI 1677 ON 35.476 3069MRCV RELAYS RESET
S4B		LDO 1844 OFF 35.480 4535SW SEL ZERO
S1B		DDA 2085 ON 35.480 5161VXK0006-603
	IU	LDI 0981 ON 35.484 0516SW SEL READ
	IU	LDI 1102 ON 35.484 0516SW SEL READ
S1B		DDA 2029 OFF 35.484 4080VXK0128-404
S1B	IU	MDI 2305 OFF 35.508 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 35.508 3768READ COMMAND
	IU	LDI 0983 OFF 35.516 0463SW SEL READ
	IU	LDI 1099 OFF 35.516 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 35.516 0516SW SEL READ
S1B		DDA 2085 OFF 35.516 5161VXK0004-603
S1B		DDA 2088 OFF 35.516 5164VXK0005-603
	IU	MDI 0817 ON 35.520 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 35.520 3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844 ON 35.520 3928SW SEL ZERO
	IU	LDI 1091 OFF 35.524 0506BIT NO 2 VERIFY
	IU	MDI 0819 ON 35.524 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 35.524 3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2098 OFF 35.524 5171VXK0008-603

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S1B		DDA 2099 OFF 35.524 5172VXK0008-603
	IU	LDI 1092 OFF 35.528 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 35.528 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 35.528 0509BIT NO 5 VERIFY
S4B		LDO 1677 ON 35.528 4752MRCV RELAYS RESET
S1B		DDA 2096 OFF 35.528 5169VXK0008-603
S1B		DDA 2029 OFF 35.532 4080VK0128-404
S4B		LDO 1844 ON 35.572 4535SW SEL ZERO
S1B		MDI 2187 OFF 35.648 2596TCS PULSE OK
	IU	LDO 0734 ON 35.928 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 35.972 4859MODE CODE 2 IND
S1B		MDI 2187 ON 36.020 2596TCS PULSE OK
S1B	IU	MDI 2305 ON 36.620 3765S-IVB STAGE SEL
S4B		MDI 1844 OFF 36.624 3928SW SEL ZERO
	IU	MDI 0816 OFF 36.628 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 36.628 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 36.628 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 36.628 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF 36.628 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON 36.632 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 36.632 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 36.632 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 36.632 0509BIT NO 5 VERIFY
	IU	LDI 1097 ON 36.632 0512BIT NO 8 VERIFY
	IU	LDI 1099 ON 36.632 0514S-IVB STAGE SELECTOR
S1B		DDA 2088 ON 36.632 5164VXK0005-603
S1B		DDA 2093 ON 36.632 5166VXK0008-603
S1B		DDA 2098 ON 36.632 5168VXK0008-603
S1B		DDA 2099 ON 36.632 5172VXK0008-603
S1B		DDA 2100 ON 36.632 5173VXK0008-603
S1B		MDI 2187 OFF 36.648 2596TCS PULSE OK
S4B		LDO 1844 OFF 36.676 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 36.772 3768READ COMMAND
S1B	S4B	IU -2- 144 READ 36.772
S1B		DDA 2085 ON 36.780 5161VXK0006-603
	IU	LDI 0983 ON 36.784 0463SW SEL READ
	IU	LDI 1102 ON 36.784 0516SW SEL READ
S1B		DDA 2029 ON 36.784 4080VK0128-404
S1B	IU	MDI 2305 OFF 36.812 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 36.812 3768READ COMMAND
S4B		MDI 1844 ON 36.820 3928SW SEL ZERO
	IU	LDI 0983 OFF 36.824 0463SW SEL READ
	IU	LDI 1099 OFF 36.824 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 36.824 0516SW SEL READ
	IU	MDI 0816 ON 36.824 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 36.824 3517REG CONT BIT 2 VERIFY IN

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	IU	MDI 0819 ON 36.824 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 36.824 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON 36.824 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF 36.824 5161VXK0006-603
S1B		DDA 2088 OFF 36.824 5164VXK0005-603
	IU	LDI 1091 OFF 36.832 0506BIT NO 2 VERIFY
S1B		DDA 2029 OFF 36.832 4080VK0128-404
S1B		DDA 2099 OFF 36.832 5172VXK0008-603
	IU	LDI 1090 OFF 36.836 0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF 36.836 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 36.836 0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF 36.836 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 36.836 5166VXK0008-603
S1B		DDA 2094 OFF 36.836 5167VXK0008-603
S1B		DDA 2100 OFF 36.836 5173VXK0008-603
S1B		MDI 2187 ON 37.020 2596TCS PULSE OK
	IU	LDO 0734 ON 37.120 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 37.160 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 37.648 2596TCS PULSE OK
	IU	MDO 0695 OFF 38.000 2027RAMP NEG
S1B		MDI 2187 ON 38.020 2596TCS PULSE OK
	IU	LDO 0889 OFF 38.076 4674RAMP IND
	IU	LDO 0734 ON 38.160 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 38.200 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 38.648 2596TCS PULSE OK
S4B		MDI 1784 ON 38.888 3814SPARK SYS NO 2 INH
S4B		MDI 1847 ON 38.912 3930SPARK SYS NO 1 INH
S4B		LDO 1782 ON 38.932 4479LOX TANK NOT OVERFILLED
S4B		LDO 1847 ON 38.972 4537SPARK SYS NO 1 INH
S1B		MDI 2187 ON 39.020 2596TCS PULSE OK
	IU	LDO 0734 ON 39.172 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 39.212 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 39.648 2596TCS PULSE OK
S1B	IU	MDI 2305 ON 39.720 3765S-IVB STAGE SEL
S1B	IU	MDI 1844 OFF 39.724 3928SW SEL ZERO
	IU	MDI 0817 OFF 39.728 3517REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 39.728 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 39.728 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 39.728 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 39.728 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF 39.728 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 39.728 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON 39.732 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 39.732 0506BIT NO 2 VERIFY

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	IU	LDI 1092 ON	39.732	0507BIT NO 3 VERIFY
	IU	LDI 1095 ON	39.732	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	39.732	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	39.732	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	39.732	0514S-IVB STAGE SELECTOR
	IU	MDI 0819 ON	39.732	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	39.732	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	39.732	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2088 ON	39.732	5164VXK0005-603
S1B		DDA 2093 ON	39.732	5166VXK0008-603
S1B		DDA 2094 ON	39.732	5167VXK0008-603
S1B		DDA 2095 ON	39.732	5168VXK0008-603
S1B		DDA 2098 ON	39.732	5171VXK0008-603
S1B		DDA 2099 ON	39.732	5172VXK0008-603
S1B		DDA 2100 ON	39.732	5173VXK0008-603
S1B	IU	MDI 2305 ON	39.752	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	39.752	3767RESET COMMAND
S1B S4B	IU	-2- 3767RESET COMMAND		
S4B		MDI 1844 ON	39.756	3928SW SEL ZERO
	IU	MDI 0816 ON	39.760	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	39.760	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	39.760	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 ON	39.760	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	39.760	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	39.760	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1103 OFF	39.768	0517RESET COMMAND
S1B		DDA 2084 ON	39.764	5160VXK0007-603
S1B		DDA 2088 OFF	39.764	5164VXK0005-603
S1B		DDA 2099 OFF	39.764	5172VXK0008-603
	IU	LDI 1090 OFF	39.768	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	39.768	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	39.768	0507BIT NO 3 VERIFY
	IU	LDI 1096 OFF	39.768	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	39.768	0512BIT NO 8 VERIFY
	IU	LDI 1099 OFF	39.768	0514S-IVB STAGE SELECTOR
S1B		DDA 2093 OFF	39.768	5166VXK0008-603
S1B		DDA 2094 OFF	39.768	5167VXK0008-603
S1B		DDA 2098 OFF	39.768	5171VXK0008-603
S1B		DDA 2100 OFF	39.768	5173VXK0008-603
	IU	LDI 1095 OFF	39.772	0510BIT NO 6 VERIFY
S1B	IU	MDI 2305 ON	39.776	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	39.776	3767RESET COMMAND
	IU	LDI 1099 ON	39.780	0514S-IVB STAGE SELECTOR
S1B		DDA 2088 ON	39.780	5164VXK0005-603
	IU	LDI 1103 OFF	39.784	0517RESET COMMAND

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S1B		DDA 2084	OFF	39.784	5160VXK0007-603
	IU	MDI 0816	OFF	39.788	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	OFF	39.788	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	39.788	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821	OFF	39.788	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	39.788	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	39.788	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844	OFF	39.788	3928SW SEL ZERO
S4B		LDO 1844	OFF	39.788	4535SW SEL ZERO
	IU	MDI 0816	ON	39.792	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818	ON	39.792	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	39.792	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	39.792	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	ON	39.792	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	ON	39.792	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	ON	39.792	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2096	ON	39.796	5169VXK0008-603
S1B		DDA 2099	ON	39.796	5172VXK0008-603
	IU	LDI 1091	ON	39.800	0506BIT NO 2 VERIFY
	IU	LDI 1093	ON	39.800	0508BIT NO 4 VERIFY
	IU	LDI 1094	ON	39.800	0509BIT NO 5 VERIFY
S4B		LDO 1844	ON	39.836	4535SW SEL ZERO
S1B	IU	MDI 2308	ON	39.872	3768READ COMMAND
S1B S4B	IU	-2- 345	READ	39.872	
S4B		LDO 1844	OFF	39.876	4535SW SEL ZERO
S4B		DEE 3112	ON	39.876	4943ULL ROCKET JETT NO 1
S4B		DEE 3113	ON	39.876	4944ULL ROCKET JETT NO 2
	IU	LDI 0983	ON	39.880	0463SW SEL READ
	IU	LDI 1102	ON	39.880	0516SW SEL READ
S1B		DDA 2085	ON	39.880	5161VXK0006-603
S1B		DDA 2029	ON	39.884	4080VK0128-404
S1B	IU	MDI 2305	OFF	39.900	3765S-IVB STAGE SEL
S1B	IU	MDI 2308	OFF	39.900	3768READ COMMAND
	IU	LDI 0983	OFF	39.908	0463SW SEL READ
	IU	LDI 1099	OFF	39.908	0514S-IVB STAGE SELECTOR
	IU	LDI 1102	OFF	39.908	0516SW SEL READ
S4B		MDI 1844	ON	39.908	3928SW SEL ZERO
S1B		DDA 2085	OFF	39.908	5161VXK0006-603
S1B		DDA 2086	OFF	39.908	5164VXK0005-603
	IU	MDI 0817	ON	39.912	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819	ON	39.912	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	ON	39.912	3520REG CONT BIT 5 VERIFY IN
	IU	LDI 1091	OFF	39.916	0506BIT NO 2 VERIFY
S1B		DDA 2099	OFF	39.916	5172VXK0008-603
	IU	LDI 1093	OFF	39.920	0508BIT NO 4 VERIFY
	IU	LDI 1094	OFF	39.920	0509BIT NO 5 VERIFY

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S1B		DDA 2029 OFF 39.920 4080VK0128-404
S1B		DDA 2096 OFF 39.920 5169VXK0008-603
S1B		DDA 3052 ON 39.920 5364VK0150-404
S1B		DDA 3053 ON 39.920 5365VK0149-404
S1B	IU	MDI 2305 ON 39.924 3765S-IVB STAGE SEL
	IU	MDI 0817 OFF 39.928 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 39.928 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 39.928 3520REG CONT BIT 5 VERIFY IN
S4B		MDI 1844 OFF 39.928 3928SW SEL ZERO
	IU	LDI 1091 ON 39.932 0508BIT NO 2 VERIFY
	IU	LDI 1093 ON 39.932 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 39.932 0509BIT NO 5 VERIFY
	IU	LDI 1099 ON 39.932 0514S-IVB STAGE SELECTOR
	IU	MDI 0818 OFF 39.932 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON 39.932 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 39.932 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 39.932 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 39.932 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON 39.932 5164VXK0005-603
S1B		DDA 2096 ON 39.932 5169VXK0008-603
S1B		DDA 2099 ON 39.932 5172VXK0008-603
	IU	LDI 1092 ON 39.940 0507BIT NO 3 VERIFY
	IU	LDI 1095 ON 39.940 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 39.940 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 39.940 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 39.940 5166VXK0008-603
S1B		DDA 2094 ON 39.940 5167VXK0008-603
S1B		DDA 2095 ON 39.940 5168VXK0008-603
S1B		DDA 2098 ON 39.940 5171VXK0008-603
	IU	LDI 1094 OFF 39.944 0509BIT NO 5 VERIFY
S1B		DDA 2096 OFF 39.944 5169VXK0008-603
S4B		LDO 1844 ON 39.956 4535SW SEL ZERO
S4B		LDO 1844 OFF 39.996 4535SW SEL ZERO
S1B		MDI 2187 ON 40.020 2596TCS PULSE OK
S1B	IU	MDI 2308 ON 40.272 3768READ COMMAND
S4B	IU	-2- MDI 1763 OFF 40.276 3797MAINSTG ENABLE REL SET
	IU	LDI 1102 ON 40.280 0516SW SEL READ
S1B		DDA 2085 ON 40.280 5161VXK0006-603
S1B		DDA 2029 ON 40.284 4080VK0128-404
S1B	IU	MDI 2305 OFF 40.316 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 40.316 3768READ COMMAND
	IU	LDI 0983 OFF 40.324 0463SW SEL READ
	IU	LDI 1099 OFF 40.324 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 40.324 0516SW SEL READ

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	MDI 1844 ON 40.324 3928SW SEL ZERO
S18	DDA 2085 OFF 40.324 5161VXK0006-603
S18	DDA 2088 OFF 40.324 5164VXK0005-603
IU	MDI 0817 ON 40.328 3517REG CONT BIT 2 VERIFY IN
IU	MDI 0818 ON 40.328 3518REG CONT BIT 3 VERIFY IN
IU	MDI 0819 ON 40.328 3519REG CONT BIT 4 VERIFY IN
IU	MDI 0821 ON 40.328 3521REG CONT BIT 6 VERIFY IN
IU	MDI 0822 ON 40.328 3522REG CONT BIT 7 VERIFY IN
IU	MDI 0823 ON 40.328 3523REG CONT BIT 8 VERIFY IN
IU	LDI 1091 OFF 40.332 0506BIT NO 2 VERIFY
S18	DDA 2098 OFF 40.332 5171VXK0008-603
S18	DDA 2099 OFF 40.332 5172VXK0008-603
IU	LDI 1092 OFF 40.336 0507BIT NO 3 VERIFY
IU	LDI 1093 OFF 40.336 0508BIT NO 4 VERIFY
IU	LDI 1095 OFF 40.336 0510BIT NO 6 VERIFY
IU	LDI 1096 OFF 40.336 0511BIT NO 7 VERIFY
IU	LDI 1097 OFF 40.336 0512BIT NO 8 VERIFY
S18	DDA 2029 OFF 40.336 4080VK0128-404
S18	DDA 2093 OFF 40.336 5166VXK0008-603
S18	DDA 2094 OFF 40.336 5167VXK0008-603
S18	DDA 2095 OFF 40.336 5168VXK0008-603
S48	LDO 1763 OFF 40.388 4462MAINSTG ENABLE REL SET
S48	LDO 1844 ON 40.424 4535SW SEL ZERO
IU	LDO 0734 ON 40.460 4859MODE CODE 2 IND
IU	LDO 0734 OFF 40.472 4859MODE CODE 2 IND
S18	MDI 2187 OFF 40.648 2596TCS PULSE OK
S18	MDI 2187 ON 41.020 2596TCS PULSE OK
IU	MDI 0635 ON 41.036 3335EDSRG ZERO TORQUE COMM
IU	LDO 0734 ON 41.428 4859MODE CODE 2 IND
IU	LDO 0734 OFF 41.472 4859MODE CODE 2 IND
S18	MDI 2187 OFF 41.648 2596TCS PULSE OK
S18	DDA 3046 ON 41.660 5360VK0125-401
S18	DDA 3047 OFF 41.664 5361VK0124-401
S18	MDI 2187 ON 42.020 2596TCS PULSE OK
IU	LDO 0734 ON 42.444 4859MODE CODE 2 IND
IU	LDO 0734 OFF 42.484 4859MODE CODE 2 IND
S18	MDI 2187 OFF 42.648 2596TCS PULSE OK
S18	MDI 2187 ON 43.020 2596TCS PULSE OK
IU	LDO 0734 ON 43.520 4859MODE CODE 2 IND
IU	LDO 0734 OFF 43.560 4859MODE CODE 2 IND
S18	MDI 2187 OFF 43.648 2596TCS PULSE OK
S18	MDI 2187 ON 44.020 2596TCS PULSE OK
IU	LDO 0734 ON 44.556 4859MODE CODE 2 IND
IU	LDO 0734 OFF 44.596 4859MODE CODE 2 IND
S18	MDI 2187 OFF 44.648 2596TCS PULSE OK
S18	MDI 2187 ON 45.020 2596TCS PULSE OK

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	IU	LDO 0734 ON	45.596	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	45.636	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	45.648	2596TCS PULSE OK
S1B	IU	MDI 2305 ON	45.720	3765S-IVR STAGE SEL
S4B		MDI 1844 OFF	45.724	3928SW SEL ZERO
	IU	MDI 0816 OFF	45.728	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	45.728	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF	45.728	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	45.728	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	45.728	5164VXK0005-603
S1B		DDA 2093 ON	45.728	5166VXK0008-603
S1B		DDA 2099 ON	45.728	5172VXK0008-603
S1B		DDA 2100 ON	45.728	5173VXK0008-603
	IU	LDI 1090 ON	45.732	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	45.732	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	45.732	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	45.732	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	45.732	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	45.732	0514S-IVR STAGE SELECTOR
S1B		DDA 2095 ON	45.732	5168VXK0008-603
	IU	LDI 1093 OFF	45.744	0508BIT NO 4 VERIFY
S4B		LDO 1844 OFF	45.804	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	45.872	3768READ COMMAND
S1B S4B	IU	-2- 134 READ	45.872	
	IU	LDI 0983 ON	45.880	0463SW SEL READ
	IU	LDI 1102 ON	45.880	0516SW SEL READ
S1B		DDA 2085 ON	45.880	5161VXK0006-603
S1B		DDA 2029 ON	45.884	4080VK0128-404
S1B	IU	MDI 2305 OFF	45.912	3765S-IVR STAGE SEL
S1B	IU	MDI 2308 OFF	45.912	3768READ COMMAND
	IU	LDI 0983 OFF	45.924	0463SW SEL READ
	IU	LDI 1099 OFF	45.924	0514S-IVR STAGE SELECTOR
	IU	LDI 1102 OFF	45.924	0516SW SEL READ
	IU	MDI 0816 ON	45.924	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	45.924	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0823 ON	45.924	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 ON	45.924	3928SW SEL ZERO
S1B		DDA 2085 OFF	45.924	5161VXK0006-603
S1B		DDA 2088 OFF	45.924	5164VXK0005-603
	IU	MDI 0821 ON	45.928	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2029 OFF	45.928	4080VK0128-404
	IU	LDI 1091 OFF	45.932	0506BIT NO 2 VERIFY
S1B		DDA 2093 OFF	45.932	5166VXK0008-603
S1B		DDA 2099 OFF	45.932	5172VXK0008-603
S1B		DDA 2100 OFF	45.932	5173VXK0008-603
	IU	LDI 1090 OFF	45.936	0505BIT NO 1 VERIFY

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	IU	LDI 1095 OFF	45.936	0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF	45.936	0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON	45.936	3765S-IVB STAGE SEL
S1B		DDA 2095 OFF	45.936	5168VXKU0008-603
S4B		MDI 1844 OFF	45.940	3928SW SEL ZERO
	IU	MDI 0817 OFF	45.944	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	45.944	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	45.944	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	45.944	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	45.944	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	45.944	5164VXKU0005-603
S1B		DDA 2093 ON	45.944	5166VXKU0008-603
S1B		DDA 2094 ON	45.944	5167VXKU0008-603
S1B		DDA 2098 ON	45.944	5171VXKU0008-603
S1B		DDA 2099 ON	45.944	5172VXKU0008-603
	IU	LDI 1091 ON	45.948	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	45.948	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	45.948	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	45.948	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	45.948	0512BIT NO 8 VERIFY
S1B		LDI 1099 ON	45.948	0514S-IVB STAGE SELECTOR
	IU	DDA 2096 ON	45.948	5169VXKU0008-603
	IU	MDI 2238 ON	45.956	2607RAMP NO 3 ZERO
	IU	MDI 2237 ON	45.960	2606RAMP NO 2 ZERO
S4B		MDI 0635 OFF	45.964	3335EDSRG ZERO TORQUE COMM
	IU	LDO 1844 ON	45.964	4535SW SEL ZERO
S1B	IU	MDI 2305 OFF	45.968	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	45.968	3767RESET COMMAND
S1B S4B	IU	-2- 051 RESET	45.968	
	IU	LDI 1103 ON	45.972	0517RESET COMMAND
	IU	MDI 0817 ON	45.972	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	45.972	3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844 ON	45.972	3928SW SEL ZERO
S1B		DDA 2084 ON	45.972	5160VXKU0007-603
S1B		DDA 2088 OFF	45.972	5164VXKU0005-603
	IU	LDI 1099 OFF	45.976	0514S-IVB STAGE SELECTOR
	IU	MDI 0820 ON	45.976	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	45.976	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	45.976	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2099 OFF	45.980	5172VXKU0008-603
	IU	LDI 1091 OFF	45.984	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	45.984	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	45.984	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	45.984	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	45.984	0512BIT NO 8 VERIFY

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S1B	IU	MDI 2305 ON	45.984	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	45.984	3767RESET COMMAND
S1B		DDA 2093 OFF	45.984	5166VXK0008-603
S1B		DDA 2094 OFF	45.984	5167VXK0008-603
S1B		DDA 2096 OFF	45.984	5169VXK0008-603
S1B		DDA 2098 OFF	45.984	5171VXK0008-603
	IU	LDI 1099 ON	45.988	0514S-IVB STAGE SELECTOR
S1B		DDA 2098 OFF	45.988	5171VXK0008-603
	IU	LDI 1103 OFF	45.992	0517RESET COMMAND
S1B		DDA 2084 OFF	45.992	5160VXK0007-603
	IU	MDI 0817 OFF	45.996	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	45.996	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	45.996	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	45.996	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	45.996	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	45.996	3928SW SEL ZERO
	IU	MDI 0816 OFF	46.000	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	46.000	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	46.000	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	46.000	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	46.000	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	46.000	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	46.000	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON	46.004	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	46.004	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	46.004	0508BIT NO 4 VERIFY
S1B		DDA 2095 ON	46.004	5168VXK0008-603
S1B		DDA 2099 ON	46.004	5172VXK0008-603
S1B		DDA 2100 ON	46.004	5173VXK0008-603
	IU	LDI 1095 ON	46.008	0510BIT NO 6 VERIFY
S4B		LDO 1844 OFF	46.008	4535SW SEL ZERO
S1B		MDI 2187 ON	46.020	2596TCS PULSE OK
	S4B	LDO 1844 ON	46.056	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	46.072	3768READ COMMAND
S1B S4B	IU	-2- 324 READ	46.072	
	IU	LDI 0983 ON	46.080	0463SW SEL READ
	IU	LDI 1102 ON	46.080	0516SW SEL READ
S4B		MDI 1668 ON	46.080	3060ULL ROCKET PLT RLY RESET
S1B		DDA 2085 ON	46.080	5161VXK0006-603
S1B		DDA 2085 ON	46.084	5161VXK0006-603
S1B	IU	MDI 2305 OFF	46.104	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	46.104	3768READ COMMAND
	S4B	MDI 1844 ON	46.112	3928SW SEL ZERO
	IU	LDI 0983 OFF	46.116	0463SW SEL READ
	IU	LDI 1099 OFF	46.116	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	46.116	0516SW SEL READ

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	IU	MDI 0816 ON 46.116 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 46.116 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 46.116 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON 46.116 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2085 OFF 46.116 5161VXK0006-603
S1B		DDA 2088 OFF 46.116 5164VXK0005-603
S1B		DDA 2029 OFF 46.120 4080VK0128-404
S4B		LDO 1844 OFF 46.120 4535SW SEL ZERO
	IU	LDI 1091 OFF 46.124 0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF 46.124 5172VXK0008-603
S1B		DDA 2100 OFF 46.124 5173VXK0008-603
	IU	LDI 1090 OFF 46.128 0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF 46.128 0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF 46.128 0510BIT NO 6 VERIFY
S1B		DDA 2124 ON 46.128 4118VR0030-602
S1B		DDA 2095 OFF 46.128 5168VXK0008-603
S4B		LDO 1668 ON 46.176 4743ULL ROCKET PLT RLY RESET
	IU	MDO 1906 OFF 46.204 1603EDS RG PITCH AXIS SEL ON
	IU	MDI 0631 OFF 46.204 3331EDSRG PITCH AXIS SELECT
S4B		LDO 1844 ON 46.212 4535SW SEL ZERO
	IU	LDO 0631 OFF 46.284 4398EDSRG PITCH AXIS SELECT
S1B		MDI 2187 OFF 46.648 2596TCS PULSE OK
	IU	LDO 0734 ON 46.844 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 46.888 4859MODE CODE 2 IND
S1B		MDI 2187 ON 47.016 2596TCS PULSE OK
S1B		MDI 2187 OFF 47.648 2596TCS PULSE OK
	IU	LDO 0734 ON 47.884 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 47.928 4859MODE CODE 2 IND
S1B		MDI 2187 ON 48.016 2596TCS PULSE OK
S1B		MDI 2187 OFF 48.648 2596TCS PULSE OK
	IU	LDO 0734 ON 48.924 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.964 4859MODE CODE 2 IND
S1B		MDI 2187 ON 49.016 2596TCS PULSE OK
S1B		MDI 2187 OFF 49.648 2596TCS PULSE OK
	IU	LDO 0734 ON 50.008 4859MODE CODE 2 IND
S1B		MDI 2187 ON 50.016 2596TCS PULSE OK
	IU	LDO 0734 OFF 50.048 4859MODE CODE 2 IND
S1B		MDI 2305 ON 50.428 3765S-IVB STAGE SEL
S4B		MDI 1844 OFF 50.432 3928SW SEL ZERO
	IU	MDI 0817 OFF 50.436 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 50.436 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 50.436 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF 50.436 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON 50.436 5164VXK0005-603
S1B		DDA 2093 ON 50.436 5166VXK0008-603
S1B		DDA 2098 ON 50.436 5171VXK0008-603

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S1B		DDA 2099 ON	50.436	5172VXK0008-603
	IU	LDI 1091 ON	50.440	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	50.440	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	50.440	0508BIT NO 4 VERIFY
	IU	LDI 1097 ON	50.440	0512BIT NO 8 VERIFY
	IU	LDI 1098 ON	50.440	0514S-IVR STAGE SELECTOR
S4B		LDO 1844 OFF	50.480	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	50.588	3768READ COMMAND
S1B S4B	IU	-2- 161 READ	50.588	
	IU	LDI 0983 ON	50.596	0463SW SEL READ
	IU	LDI 1102 ON	50.596	0516SW SEL READ
S1B		DDA 2085 ON	50.596	5161VXK0006-603
S1B		DDA 2029 ON	50.600	4080VK0128-404
S1B	IU	MDI 2305 OFF	50.628	3765S-IVR STAGE SEL
S1B	IU	MDI 2308 OFF	50.628	3768READ COMMAND
	IU	LDI 0983 OFF	50.640	0463SW SEL READ
	IU	LDI 1099 OFF	50.640	0514S-IVR STAGE SELECTOR
	IU	LDI 1102 OFF	50.640	0516SW SEL READ
	IU	MDI 0817 ON	50.640	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	50.640	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	50.640	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	50.640	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 ON	50.640	3928SW SEL ZERO
S1B		DDA 2085 OFF	50.640	5161VXK0006-603
S1B		DDA 2088 OFF	50.640	5164VXK0005-603
S1B		DDA 2029 OFF	50.644	4080VK0128-404
	IU	LDI 1091 OFF	50.648	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	50.648	0507BIT NO 3 VERIFY
S1B		MDI 2187 OFF	50.648	2596TCS PULSE OK
S1B		DDA 2093 OFF	50.648	5166VXK0008-603
S1B		DDA 2098 OFF	50.648	5171VXK0008-603
S1B		DDA 2099 OFF	50.648	5172VXK0008-603
	IU	LDI 1093 OFF	50.652	0508BIT NO 4 VERIFY
	IU	LDI 1097 OFF	50.652	0512BIT NO 8 VERIFY
S4B		LDO 1844 ON	50.680	4535SW SEL ZERO
S1B		MDI 2187 ON	51.016	2596TCS PULSE OK
	IU	LDO 0734 ON	51.136	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	51.180	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	51.648	2596TCS PULSE OK
S1B	IU	MDI 2306 ON	51.820	3766IU STAGE SEL
	IU	LDI 1090 ON	51.828	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	51.828	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	51.828	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	51.828	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	51.828	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	51.828	0511BIT NO 7 VERIFY

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	IU	LDI 1097 ON	51.828	0512BIT NO 8 VERIFY
	IU	LDI 1098 ON	51.828	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	51.828	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	51.828	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	51.828	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	51.828	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	51.828	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	51.828	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	51.828	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	51.828	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	51.828	5162VXK0003-603
S1B		DDA 2087 ON	51.828	5163VXK0005-603
S1B		DDA 2093 ON	51.828	5166VXK0008-603
S1B		DDA 2094 ON	51.828	5167VXK0008-603
S1B		DDA 2096 ON	51.828	5169VXK0008-603
S1B		DDA 2098 ON	51.828	5171VXK0008-603
S1B		DDA 2099 ON	51.828	5172VXK0008-603
S1B		DDA 2100 ON	51.828	5173VXK0008-603
S1B	IU	MDI 2306 OFF	51.852	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	51.852	3767RESET COMMAND
S1B S4B	IU	-3- 040 RESET	51.852	
S1B		DDA 2084 ON	51.852	5160VXK0007-603
	IU	LDI 1103 ON	51.856	0517RESET COMMAND
	IU	MDI 0816 ON	51.856	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	51.856	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	51.856	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0782 ON	51.860	3482SW SEL ZERO IND
	IU	MDI 0819 ON	51.860	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	51.860	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	51.860	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	51.860	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF	51.864	0506BIT NO 2 VERIFY
	IU	LDI 1098 OFF	51.864	0513IU STAGE SELECTOR
S1B		DDA 2086 OFF	51.864	5162VXK0003-603
S1B		DDA 2087 OFF	51.864	5163VXK0005-603
S1B		DDA 2093 OFF	51.864	5166VXK0008-603
S1B		DDA 2098 OFF	51.864	5171VXK0008-603
S1B		DDA 2099 OFF	51.864	5172VXK0008-603
S1B		DDA 2100 OFF	51.864	5173VXK0008-603
	IU	LDI 1090 OFF	51.868	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	51.868	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	51.868	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	51.868	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	51.868	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	51.868	0512BIT NO 8 VERIFY
S1B	IU	MDI 2306 ON	51.868	3766IU STAGE SEL

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S1B	IU	MDI 2307 OFF	51.868	3767RESET COMMAND
S1B		DDA 2087 ON	51.868	5163VXK0005-603
S1B		DDA 2094 OFF	51.868	5167VXK0008-603
S1B		DDA 2096 OFF	51.868	5169VXK0008-603
	IU	LDI 1098 ON	51.872	0513IU STAGE SELECTOR
S1B		DDA 2084 OFF	51.872	5160VXK0007-603
	IU	LDI 1103 OFF	51.876	0517RESET COMMAND
	IU	MDI 0816 OFF	51.876	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	51.876	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	51.876	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	51.876	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	51.876	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	51.876	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 OFF	51.880	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	51.880	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	51.880	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	51.880	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	51.880	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	51.880	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	51.880	0512BIT NO 8 VERIFY
	IU	MDI 0782 OFF	51.880	3482SW SEL ZERO IND
	IU	MDI 0816 ON	51.880	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	51.880	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	51.880	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	51.880	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	51.880	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	51.880	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	51.880	5162VXK0003-603
S1B		DDA 2093 ON	51.880	5166VXK0008-603
S1B		DDA 2094 ON	51.880	5167VXK0008-603
S1B		DDA 2096 ON	51.880	5169VXK0008-603
S1B		DDA 2098 ON	51.880	5171VXK0008-603
S1B		DDA 2099 ON	51.880	5172VXK0008-603
S1B		DDA 2100 ON	51.880	5173VXK0008-603
	IU	LDI 1095 ON	51.888	0510BIT NO 6 VERIFY
S1B		DDA 2095 ON	51.888	5168VXK0008-603
S1B		DDA 2098 OFF	51.888	5171VXK0008-603
	IU	LDI 1091 OFF	51.892	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	51.892	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	51.892	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	51.892	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	51.892	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	51.892	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	51.892	5166VXK0008-603
S1B		DDA 2094 OFF	51.892	5167VXK0008-603
S1B		DDA 2096 OFF	51.892	5169VXK0008-603

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S18		DDA 2100 OFF 51.892 5173VXK0008-603
S18	IU	MDI 2308 ON 51.980 3768READ COMMAND
S18	IU	-3- 335 READ 51.980
	IU	LDI 0983 ON 51.988 0463SW SEL READ
	IU	LDI 1102 ON 51.988 0516SW SEL READ
S18		DDA 2085 ON 51.988 5161VXK0006-603
S18		DDA 2149 ON 51.992 4134VK0004-603
S18		MDI 2187 ON 52.016 2596TCS PULSE OK
S18	IU	MDI 2306 OFF 52.020 3766IU STAGE SEL
S18	IU	MDI 2308 OFF 52.020 3768READ COMMAND
S18		DDA 2087 OFF 52.028 5163VXK0005-603
	IU	LDI 0983 OFF 52.032 0463SW SEL READ
	IU	LDI 1098 OFF 52.032 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 52.032 0516SW SEL READ
	IU	MDI 0817 ON 52.032 3517REG CONT BIT 2 VERIFY IN
S18		DDA 2085 OFF 52.036 5161VXK0006-603
	IU	MDI 0782 ON 52.036 3482SW SEL ZERO IND
	IU	MDI 0821 ON 52.036 3521REG CONT BIT 6 VERIFY IN
S18		DDA 2149 OFF 52.036 4134VK0004-603
S18		DDA 2087 OFF 52.036 5163VXK0005-603
S18		DDA 2099 OFF 52.036 5172VXK0008-603
	IU	LDI 1098 OFF 52.044 0513IU STAGE SELECTOR
	IU	LDI 1095 OFF 52.044 0510BIT NO 6 VERIFY
S18		DDA 2095 OFF 52.044 5168VXK0008-603
	IU	LDO 0734 ON 52.296 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 52.336 4859MODE CODE 2 IND
S18		MDI 2187 OFF 52.648 2596TCS PULSE OK
	IU	MDI 0630 ON 53.004 3330EDSRG YAW AXIS SELECT
S18		MDI 2187 ON 53.016 2596TCS PULSE OK
	IU	LDO 0630 ON 53.056 4397EDSRG YAW AXIS SELECT
	IU	LDO 0734 ON 53.328 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 53.372 4859MODE CODE 2 IND
S18		MDI 2187 OFF 53.648 2596TCS PULSE OK
S18		MDI 2187 ON 54.016 2596TCS PULSE OK
	IU	LDO 0734 ON 54.348 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 54.388 4859MODE CODE 2 IND
S18		MDI 2187 OFF 54.648 2596TCS PULSE OK
S18		MDI 2187 ON 55.016 2596TCS PULSE OK
	IU	LDO 0734 ON 55.380 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 55.420 4859MODE CODE 2 IND
S18		MDI 2187 OFF 55.648 2596TCS PULSE OK
S18		MDI 2187 ON 56.016 2596TCS PULSE OK
	IU	MDO 0695 ON 56.064 2027RAMP NEG
	IU	MDI 0889 ON 56.068 3577RAMP IND
	IU	MDI 2236 OFF 56.084 2605RAMP NO 1 ZERO
	IU	MDI 2237 OFF 56.084 2606RAMP NO 2 ZERO

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	IU	MDI 2236 OFF	56.084	2607RAMP NO 3 ZERO
	IU	LDO 0889 ON	56.140	4674RAMP 1
	IU	LDO 0734 ON	56.452	4859MODE CODE 2 IND
S18		DDA 2126 OFF	56.460	4120VXR0028-602
	IU	LDO 0734 OFF	56.496	4859MODE CODE 2 IND
S18		MDI 2187 OFF	56.648	2596TCS PULSE OK
S18	IU	MDI 2306 ON	56.820	3766IU STAGE SEL
	IU	MDI 0782 OFF	56.824	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	56.824	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	56.824	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF	56.824	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1090 ON	56.828	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	56.828	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	56.828	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	56.828	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	56.828	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	56.828	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	56.828	0512BIT NO 8 VERIFY
	IU	LDI 1098 ON	56.828	0513IU STAGE SELECTOR
	IU	MDI 0816 OFF	56.828	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 OFF	56.828	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	56.828	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	56.828	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2086 OFF	56.828	5162VXK0003-603
S18		DDA 2087 ON	56.828	5163VXK0005-603
S18		DDA 2093 ON	56.828	5166VXK0008-603
S18		DDA 2094 ON	56.828	5167VXK0008-603
S18		DDA 2095 ON	56.828	5168VXK0008-603
S18		DDA 2098 ON	56.828	5171VXK0008-603
S18		DDA 2099 ON	56.828	5172VXK0008-603
S18		DDA 2100 ON	56.828	5173VXK0008-603
S18	IU	MDI 2306 OFF	56.852	3766IU STAGE SEL
S18	IU	MDI 2307 ON	56.852	3767RESET COMMAND
S18 S4B	IU	-3- 020 RESET	56.852	
	IU	LDI 1103 ON	56.860	0517RESET COMMAND
	IU	MDI 0782 ON	56.860	3482SW SEL ZERO IND
	IU	MDI 0816 ON	56.860	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	56.860	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	56.860	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	56.860	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	56.860	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	56.860	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	56.860	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2084 ON	56.860	5160VXK0007-603
S18		DDA 2086 ON	56.860	5162VXK0003-603
	IU	LDI 1091 OFF	56.864	0506BIT NO 2 VERIFY

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	IU	LDI 1092 OFF 56.864 0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF 56.864 0512BIT NO 8 VERIFY
	IU	LDI 1098 OFF 56.864 0513IU STAGE SELECTOR
S18		DDA 2087 OFF 56.864 5163VXK0005-603
S18		DDA 2093 OFF 56.864 5166VXK0008-603
S18		DDA 2098 OFF 56.864 5171VXK0008-603
S18		DDA 2099 OFF 56.864 5172VXK0008-603
S18		DDA 2100 OFF 56.864 5173VXK0008-603
	IU	LDI 1090 OFF 56.868 0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF 56.868 0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF 56.868 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 56.868 0511BIT NO 7 VERIFY
S18		DDA 2094 OFF 56.868 5167VXK0008-603
S18		DDA 2095 OFF 56.868 5168VXK0008-603
S18	IU	MDI 2306 ON 56.888 3766IU STAGE SEL
S18	IU	MDI 0807 OFF 56.888 3767READ COMMAND
	IU	LDI 1098 ON 56.896 0513IU STAGE SELECTOR
	IU	MDI 0818 OFF 56.896 3518REG CONT BIT 3 VERIFY IN
S18		DDA 2084 OFF 56.896 5160VXK0007-603
S18		DDA 2087 OFF 56.896 5163VXK0005-603
	IU	LDI 1103 OFF 56.900 0517RESET COMMAND
	IU	MDI 0782 OFF 56.900 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 56.900 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 56.900 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF 56.900 3520REG CONT BIT 5 VERIFY IN
	IU	LDI 1091 ON 56.904 0506BIT NO 2 VERIFY
	IU	LDI 1094 ON 56.904 0509BIT NO 5 VERIFY
S18		DDA 2086 OFF 56.904 5162VXK0006-603
S18		DDA 2096 ON 56.904 5169VXK0008-603
S18		DDA 2099 ON 56.904 5172VXK0008-603
S18	IU	MDI 2308 ON 56.988 3768READ COMMAND
S18	IU	LDI 0983 ON 56.996 0463SW SEL READ
S18	IU	LDI 1102 ON 56.996 0516SW SEL READ
S18		DDA 2085 ON 56.996 5161VXK0006-603
S18		DDA 2149 ON 57.000 4134VK0004-603
S18		MDI 2187 ON 57.016 2596TCS PULSE OK
S18	IU	MDI 2306 OFF 57.020 3766IU STAGE SEL
S18	IU	MDI 2308 OFF 57.020 3768READ COMMAND
S18		DDA 2085 OFF 57.028 5161VXK0006-603
S18		DDA 2087 OFF 57.028 5163VXK0005-603
	IU	LDI 0983 OFF 57.032 0463SW SEL READ
	IU	LDI 1098 OFF 57.032 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 57.032 0516SW SEL READ
	IU	MDI 0782 ON 57.032 3482SW SEL ZERO IND
	IU	MDI 0817 ON 57.032 3517REG CONT BIT 2 VERIFY IN

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	IU	MDI 0820 ON 57.032 3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2149 OFF 57.036 4134VK0004-603
S1B		DDA 2086 ON 57.036 5162VXK0003-603
S1B		DDA 2099 OFF 57.036 5172VXK0008-603
	IU	LDI 1091 OFF 57.040 0506BIT NO 2 VERIFY
	IU	LDI 1094 OFF 57.040 0509BIT NO 5 VERIFY
S1B		DDA 2096 OFF 57.040 5169VXK0008-603
	IU	LDO 0734 ON 57.564 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 57.604 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 57.648 2596TCS PULSE OK
S1B		MDI 2187 ON 58.016 2596TCS PULSE OK
	IU	LDO 0734 ON 58.600 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 58.644 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 58.648 2596TCS PULSE OK
S1B		MDI 2187 ON 59.016 2596TCS PULSE OK
S1B		MDI 2187 OFF 59.048 2596TCS PULSE OK
	IU	LDO 0734 ON 59.676 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 59.752 4859MODE CODE 2 IND
S1B S4B	IU	CDC 00 03
S1B		MDI 2187 ON 00.016 2596TCS PULSE OK
S1B		MDI 2187 OFF 00.648 2596TCS PULSE OK
	IU	LDO 0734 ON 00.728 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 00.768 4859MODE CODE 2 IND
S1B		MDI 2187 ON 01.016 2596TCS PULSE OK
	IU	MDO 0695 OFF 01.092 2027RAMP NEG
	IU	MDI 0889 OFF 01.096 3577RAMP IND
	IU	LDO 0889 OFF 01.156 4674RAMP IND
S1B		MDI 2187 OFF 01.144 2596TCS PULSE OK
	IU	LDO 0734 ON 01.796 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 01.840 4859MODE CODE 2 IND
S1B		MDI 2187 ON 02.016 2596TCS PULSE OK
	IU	LDO 0734 ON 02.052 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 02.064 4859MODE CODE 2 IND
	IU	LDO 0734 ON 02.148 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 02.288 4859MODE CODE 2 IND
	IU	LDO 0734 ON 02.292 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 02.572 4859MODE CODE 2 IND
	IU	LDO 0734 ON 02.670 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 02.644 2596TCS PULSE OK
	IU	LDO 0734 OFF 02.652 4859MODE CODE 2 IND
S1B		MDI 2187 ON 03.016 2596TCS PULSE OK
	IU	LDO 0734 ON 03.480 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 03.528 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 03.644 2596TCS PULSE OK
	IU	LDO 0734 ON 03.760 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 03.772 4859MODE CODE 2 IND

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	IU	LDO 0734 ON	03.808	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	03.972	4859MODE CODE 2	IND
	IU	LDO 0734 ON	03.980	4859MODE CODE 2	IND
S1B		MDI 2187 ON	04.016	2596TCS PULSE	OK
	IU	LDO 0734 OFF	04.220	4859MODE CODE 2	IND
	IU	LDO 0734 ON	04.256	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	04.332	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	04.644	2596TCS PULSE	OK
S1B		MDI 2187 ON	05.016	2596TCS PULSE	OK
	IU	LDO 0734 ON	05.164	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	05.224	4859MODE CODE 2	IND
	IU	LDO 0734 ON	05.420	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	05.436	4859MODE CODE 2	IND
	IU	LDO 0734 ON	05.488	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	05.644	2596TCS PULSE	OK
	IU	LDO 0734 ON	05.664	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	05.904	4859MODE CODE 2	IND
	IU	LDO 0734 ON	05.940	4859MODE CODE 2	IND
S1B		MDI 2187 ON	06.016	2596TCS PULSE	OK
	IU	LDO 0734 OFF	06.064	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	06.644	2596TCS PULSE	OK
	IU	LDO 0734 ON	06.888	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	06.932	4859MODE CODE 2	IND
S1B		MDI 2187 ON	07.016	2596TCS PULSE	OK
	IU	LDO 0734 ON	07.128	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	07.144	4859MODE CODE 2	IND
	IU	LDO 0734 ON	07.176	4859MODE CODE 2	IND
S1B	IU	MDI 2306 ON	07.320	3766IU STAGE SEL	
S1B		DDA 2087 ON	07.324	5163VXK0005-603	
	IU	LDI 1098 ON	07.328	0513IU STAGE SELECTOR	
	IU	MDI 0782 OFF	07.328	3482SW SEL ZERO	IND
	IU	MDI 0817 OFF	07.328	3517REG CONT BIT 2	VERIFY IN
	IU	MDI 0819 OFF	07.328	3519REG CONT BIT 4	VERIFY IN
	IU	MDI 0820 OFF	07.328	3520REG CONT BIT 5	VERIFY IN
	IU	MDI 0823 OFF	07.328	3523REG CONT BIT 8	VERIFY IN
	IU	LDI 1091 ON	07.336	0506BIT NO 2	VERIFY
	IU	LDI 1093 ON	07.336	0508BIT NO 4	VERIFY
	IU	LDI 1094 ON	07.336	0509BIT NO 5	VERIFY
	IU	LDI 1097 ON	07.336	0512BIT NO 8	VERIFY
S1B		DDA 2086 OFF	07.336	5162VXK0003-603	
S1B		DDA 2093 ON	07.336	5166VXK0008-603	
S1B		DDA 2096 ON	07.336	5169VXK0008-603	
S1B		DDA 2099 ON	07.336	5172VXK0008-603	
	IU	LDO 0734 OFF	07.344	4859MODE CODE 2	IND
	IU	LDO 0734 ON	07.348	4859MODE CODE 2	IND

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S1B	IU	MDI 2308 ON	07.480	3768READ COMMAND
S1B S4B	IU	-3- 145 READ	07.480	
	IU	LDI 0983 ON	07.484	0463SW SEL READ
	IU	LDI 1102 ON	07.484	0516SW SEL READ
S1B		DDA 2085 ON	07.484	5161VXK0006-603
S1B		DDA 2149 ON	07.492	4134VK0004-603
S1B	IU	MDI 2306 OFF	07.516	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	07.516	3768READ COMMAND
	IU	LDI 0983 OFF	07.528	0463SW SEL READ
	IU	LDI 1098 OFF	07.528	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	07.528	0516SW SEL READ
	IU	LDO 0734 OFF	07.528	4859MODE CODE 2 IND
S1B		DDA 2085 OFF	07.528	5161VXK0006-603
S1B		DDA 2087 OFF	07.528	5163VXK0005-603
	IU	MDI 0782 ON	07.532	3482SW SEL ZERO IND
	IU	MDI 0817 ON	07.532	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	07.532	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	07.532	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	07.532	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF	07.536	0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF	07.536	4134VK0004-603
S1B		DDA 2086 ON	07.536	5162VXK0003-603
S1B		DDA 2093 OFF	07.536	5166VXK0008-603
S1B		DDA 2099 OFF	07.536	5172VXK0008-603
	IU	LDI 1093 OFF	07.540	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	07.540	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	07.540	0512BIT NO 8 VERIFY
S1B		DDA 2096 OFF	07.540	5169VXK0008-603
	IU	LDO 0734 ON	07.620	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	07.644	2596TCS PULSE OK
	IU	LDO 0734 OFF	07.728	4859MODE CODE 2 IND
	IU	LDO 0734 ON	07.736	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	07.828	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	07.716	2596TCS PULSE OK
S1B	IU	MDI 2306 ON	08.416	3766IU STAGE SEL
	IU	MDI 0782 OFF	08.424	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	08.424	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	08.424	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	08.424	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	08.424	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF	08.424	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 ON	08.424	5163VXK0005-603
S1B		DDA 2093 ON	08.424	5166VXK0008-603
S1B		DDA 2096 ON	08.424	5169VXK0008-603
S1B		DDA 2098 ON	08.424	5171VXK0008-603
S1B		DDA 2099 ON	08.424	5172VXK0008-603

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	IU	LDI 1091 ON	08.428	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	08.428	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	08.428	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	08.428	0509BIT NO 5 VERIFY
	IU	LDI 1097 ON	08.428	0512BIT NO 8 VERIFY
	IU	LDI 1098 ON	08.428	0513IU STAGE SELECTOR
S1B		DDA 2086 OFF	08.428	5162VXK0003-603
S1B	IU	MDI 2308 ON	08.568	3768READ COMMAND
S1B S4B	IU	-3- 141 READ	08.568	
	IU	MDI 0752 ON	08.572	3452SWITCH POINT 4 IND
	IU	LDI 0983 ON	08.576	0463SW SEL READ
	IU	LDI 1102 ON	08.576	0516SW SEL READ
S1B		DDA 2085 ON	08.576	5161VXK0006-603
S1B		DDA 2149 ON	08.580	4134VK0004-603
S1B	IU	MDI 2306 OFF	08.608	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	08.608	3768READ COMMAND
	IU	LDI 0983 OFF	08.620	0463SW SEL READ
	IU	LDI 1098 OFF	08.620	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	08.620	0516SW SEL READ
	IU	MDI 0782 ON	08.620	3482SW SEL ZERO IND
	IU	MDI 0817 ON	08.620	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	08.620	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	08.620	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	08.620	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	08.620	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF	08.620	5161VXK0006-603
S1B		DDA 2087 OFF	08.620	5163VXK0005-603
	IU	LDI 1091 OFF	08.628	0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF	08.628	4134VK0004-603
S1B		DDA 2086 ON	08.628	5162VXK0003-603
S1B		DDA 2093 OFF	08.628	5166VXK0008-603
S1B		DDA 2096 OFF	08.628	5171VXK0008-603
S1B		DDA 2099 OFF	08.628	5172VXK0008-603
	IU	LDI 1092 OFF	08.632	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	08.632	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	08.632	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	08.632	0512BIT NO 8 VERIFY
S1B		DDA 2096 OFF	08.632	5169VXK0008-603
	IU	LDO 0752 ON	08.640	4876SWITCH POINT 4 IND
S1B		MDI 2187 OFF	08.644	2596TCS PULSE OK
	IU	LDO 0734 ON	08.748	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	08.788	4859MODE CODE 2 IND
	IU	LDO 0734 ON	08.968	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	08.980	4859MODE CODE 2 IND
S1B		MDI 2187 ON	09.016	2596TCS PULSE OK
	IU	LDO 0734 ON	09.036	4859MODE CODE 2 IND

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	IU	LDO 0734 OFF	09.240	4859MODE CODE 2	IND
	IU	LDO 0734 ON	09.248	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	09.488	4859MODE CODE 2	IND
	IU	LDO 0734 ON	09.520	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	09.604	4859MODE CODE 2	IND
S18		MDI 2187 OFF	10.016	2596TCS PULSE	OK
S18		MDI 2187 ON	10.016	2596TCS PULSE	OK
	IU	LDO 0734 ON	10.428	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	10.472	4859MODE CODE 2	IND
S18		MDI 2187 OFF	10.644	2596TCS PULSE	OK
	IU	LDO 0734 ON	10.668	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	10.684	4859MODE CODE 2	IND
	IU	LDO 0734 ON	10.752	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	10.920	4859MODE CODE 2	IND
	IU	LDO 0734 ON	10.928	4859MODE CODE 2	IND
S18		MDI 2187 ON	11.016	2596TCS PULSE	OK
	IU	LDO 0734 OFF	11.168	4859MODE CODE 2	IND
	IU	LDO 0734 ON	11.204	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	11.280	4859MODE CODE 2	IND
S18		MDI 2187 OFF	11.644	2596TCS PULSE	OK
S18		MDI 2187 ON	12.016	2596TCS PULSE	OK
	IU	LDO 0734 ON	12.120	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.132	4859MODE CODE 2	IND
	IU	LDO 0734 ON	12.324	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.336	4859MODE CODE 2	IND
	IU	LDO 0734 ON	12.392	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.572	4859MODE CODE 2	IND
	IU	LDO 0734 ON	12.608	4859MODE CODE 2	IND
S18		MDI 2187 OFF	12.644	2596TCS PULSE	OK
	IU	LDO 0734 OFF	12.852	4859MODE CODE 2	IND
	IU	LDO 0734 ON	12.860	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.964	4859MODE CODE 2	IND
S18		MDI 2187 ON	13.016	2596TCS PULSE	OK
	IU	MDI 0635 ON	13.100	3335EDSRG ZERO TORQUE COMM	
S18		MDI 2187 OFF	13.644	2596TCS PULSE	OK
	IU	LDO 0734 ON	13.788	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	13.832	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.004	4859MODE CODE 2	IND
S18		MDI 2187 ON	14.016	2596TCS PULSE	OK
	IU	LDO 0734 OFF	14.040	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.124	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.288	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.296	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.536	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.568	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.640	4859MODE CODE 2	IND

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S18		MDI 2187 OFF	14.644	2596TCS PULSE OK
S18		MDI 2187 ON	15.016	2596TCS PULSE OK
	IU	LDO 0734 ON	15.448	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	15.488	4859MODE CODE 2 IND
S18		MDI 2187 OFF	15.644	2596TCS PULSE OK
	IU	LDO 0734 ON	15.668	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	15.680	4859MODE CODE 2 IND
	IU	LDO 0734 ON	15.768	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	15.936	4859MODE CODE 2 IND
	IU	LDO 0734 ON	15.944	4859MODE CODE 2 IND
S18		MDI 2187 ON	16.016	2596TCS PULSE OK
	IU	LDO 0734 OFF	16.136	4859MODE CODE 2 IND
	IU	LDO 0734 ON	16.220	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	16.300	4859MODE CODE 2 IND
S18		MDI 2187 OFF	16.644	2596TCS PULSE OK
S18		MDI 2187 ON	17.016	2596TCS PULSE OK
	IU	LDO 0734 ON	17.112	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	17.152	4859MODE CODE 2 IND
	IU	LDO 0734 ON	17.356	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	17.368	4859MODE CODE 2 IND
	IU	LDO 0734 ON	17.428	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	17.480	4859MODE CODE 2 IND
	IU	LDO 0734 ON	17.604	4859MODE CODE 2 IND
S18		MDI 2187 OFF	17.644	2596TCS PULSE OK
	IU	LDO 0734 OFF	17.844	4859MODE CODE 2 IND
	IU	LDO 0734 ON	17.880	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	17.956	4859MODE CODE 2 IND
S18		MDI 2187 ON	18.016	2596TCS PULSE OK
	IU	MDI 2236 ON	18.136	2605RAMP NO 1 ZERO
	IU	MDI 2237 ON	18.136	2606RAMP NO 2 ZERO
	IU	MDI 2238 ON	18.136	2607RAMP NO 3 ZERO
	IU	MDI 0635 OFF	18.140	3335EDSRG ZERO TORQUE COMM
	IU	MDI 0630 OFF	18.144	3330EDSRG YAW AXIS SELECT
S18		DDA 2126 ON	18.208	4120VR0028-602
	IU	LDO 0630 OFF	18.220	4397EDSRG YAW AXIS SELECT
S18		MDI 2187 OFF	18.644	2596TCS PULSE OK
	IU	LDO 0734 ON	18.760	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	18.804	4859MODE CODE 2 IND
	IU	LDO 0734 ON	19.012	4859MODE CODE 2 IND
S18		MDI 2187 ON	19.016	2596TCS PULSE OK
	IU	LDO 0734 OFF	19.024	4859MODE CODE 2 IND
	IU	LDO 0734 ON	19.100	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	19.244	4859MODE CODE 2 IND
	IU	LDO 0734 ON	19.256	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	19.520	4859MODE CODE 2 IND
	IU	LDO 0734 0	19.528	4859MODE CODE 2 IND

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	IU	LDO 0734 OFF	19.604	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	19.644	2596TCS PULSE OK
S1B		MDI 2187 ON	20.016	2596TCS PULSE OK
	IU	LDO 0734 ON	20.408	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	20.448	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	20.844	2596TCS PULSE OK
	IU	LDO 0734 ON	20.660	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	20.676	4859MODE CODE 2 IND
	IU	LDO 0734 ON	20.740	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	20.892	4859MODE CODE 2 IND
	IU	LDO 0734 ON	20.900	4859MODE CODE 2 IND
S1B		MDI 2187 ON	21.016	2596TCS PULSE OK
	IU	LDO 0734 OFF	21.140	4859MODE CODE 2 IND
	IU	LDO 0734 ON	21.176	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	21.256	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	21.448	2596TCS PULSE OK
S1B		MDI 2187 ON	22.016	2596TCS PULSE OK
	IU	LDO 0734 ON	22.096	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	22.136	4859MODE CODE 2 IND
	IU	LDO 0734 ON	22.344	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	22.360	4859MODE CODE 2 IND
	IU	LDO 0734 ON	22.472	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	22.580	4859MODE CODE 2 IND
	IU	LDO 0734 ON	22.584	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	22.644	2596TCS PULSE OK
	IU	LDO 0734 OFF	22.852	4859MODE CODE 2 IND
	IU	LDO 0734 ON	22.856	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	22.976	4859MODE CODE 2 IND
S1B		MDI 2187 ON	23.016	2596TCS PULSE OK
S1B		MDI 2187 OFF	23.488	2596TCS PULSE OK
	IU	LDO 0734 ON	23.808	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	23.848	4859MODE CODE 2 IND
S1B		MDI 2187 ON	24.016	2596TCS PULSE OK
	IU	LDO 0734 ON	24.028	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	24.040	4859MODE CODE 2 IND
	IU	LDO 0734 ON	24.108	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	24.264	4859MODE CODE 2 IND
	IU	LDO 0734 ON	24.268	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	24.532	4859MODE CODE 2 IND
	IU	LDO 0734 ON	24.540	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	24.644	2596TCS PULSE OK
	IU	LDO 0734 OFF	24.664	4859MODE CODE 2 IND
S1B		MDI 2187 ON	25.016	2596TCS PULSE OK
	IU	LDO 0734 ON	25.488	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	25.528	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	25.644	2596TCS PULSE OK

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	IU	LDO 0734 ON	25.732	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	25.744	4859MODE CODE 2	IND
	IU	LDO 0734 ON	25.784	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	25.956	4859MODE CODE 2	IND
	IU	LDO 0734 ON	25.964	4859MODE CODE 2	IND
S1B		MDI 2187 ON	26.016	2596TCS PULSE	OK
	IU	LDO 0734 OFF	26.232	4859MODE CODE 2	IND
	IU	LDO 0734 ON	26.264	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	26.344	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	26.644	2596TCS PULSE	OK
S1B		MDI 2187 ON	27.016	2596TCS PULSE	OK
	IU	LDO 0734 ON	27.220	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	27.264	4859MODE CODE 2	IND
	IU	LDO 0734 ON	27.480	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	27.492	4859MODE CODE 2	IND
	IU	LDO 0734 ON	27.548	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	27.644	2596TCS PULSE	OK
	IU	LDO 0734 OFF	27.728	4859MODE CODE 2	IND
	IU	LDO 0734 ON	27.764	4859MODE CODE 2	IND
S1B		MDI 2187 ON	28.016	2596TCS PULSE	OK
	IU	LDO 0734 OFF	28.028	4859MODE CODE 2	IND
	IU	LDO 0734 ON	28.040	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	28.124	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	28.644	2596TCS PULSE	OK
	IU	LDO 0734 ON	28.952	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	28.992	4859MODE CODE 2	IND
S1B		MDI 2187 ON	29.016	2596TCS PULSE	OK
	IU	LDO 0734 ON	29.176	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	29.192	4859MODE CODE 2	IND
	IU	LDO 0734 ON	29.240	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	29.440	4859MODE CODE 2	IND
	IU	LDO 0734 ON	29.448	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	29.644	2596TCS PULSE	OK
	IU	LDO 0734 OFF	29.696	4859MODE CODE 2	IND
	IU	LDO 0734 ON	29.740	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	29.800	4859MODE CODE 2	IND
S1B		MDI 2187 ON	30.016	2596TCS PULSE	OK
	IU	LDO 0734 ON	30.608	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	30.644	2596TCS PULSE	OK
	IU	LDO 0734 OFF	30.652	4859MODE CODE 2	IND
	IU	LDO 0734 ON	30.900	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	30.912	4859MODE CODE 2	IND
	IU	LDO 0734 ON	30.996	4859MODE CODE 2	IND
S1B		MDI 2187 ON	31.016	2596TCS PULSE	OK
	IU	LDO 0734 OFF	31.172	4859MODE CODE 2	IND
	IU	LDO 0734 ON	31.176	4859MODE CODE 2	IND

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	IU	LDO 0734 OFF	31.446	4859MODE CODE 2	IND
	IU	LDO 0734 ON	31.456	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	31.560	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	31.566	2596TCS PULSE	OK
S1B		MDI 2187 ON	32.016	2596TCS PULSE	OK
	IU	LDO 0734 ON	32.372	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	32.412	4859MODE CODE 2	IND
	IU	LDO 0734 ON	32.624	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	32.636	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	32.644	2596TCS PULSE	OK
	IU	LDO 0734 ON	32.696	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	32.864	4859MODE CODE 2	IND
	IU	LDO 0734 ON	32.872	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	33.116	2596TCS PULSE	OK
	IU	LDO 0734 OFF	33.136	4859MODE CODE 2	IND
	IU	LDO 0734 ON	33.140	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	33.224	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	33.644	2596TCS PULSE	OK
S1B		MDI 2187 ON	34.016	2596TCS PULSE	OK
	IU	LDO 0734 ON	34.028	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	34.080	4859MODE CODE 2	IND
	IU	LDO 0734 ON	34.280	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	34.292	4859MODE CODE 2	IND
	IU	LDO 0734 ON	34.348	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	34.520	4859MODE CODE 2	IND
	IU	LDO 0734 ON	34.524	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	34.644	2596TCS PULSE	OK
	IU	LDO 0734 OFF	34.788	4859MODE CODE 2	IND
	IU	LDO 0734 ON	34.796	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	34.880	4859MODE CODE 2	IND
S1B		MDI 2187 ON	35.016	2596TCS PULSE	OK
S1B		MDI 2187 OFF	35.164	2596TCS PULSE	OK
	IU	LDO 0734 ON	35.724	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	35.764	4859MODE CODE 2	IND
	IU	LDO 0734 ON	35.976	4859MODE CODE 2	IND
S1B		MDI 2187 ON	36.016	2596TCS PULSE	OK
	IU	LDO 0734 OFF	36.016	4859MODE CODE 2	IND
	IU	LDO 0734 ON	36.052	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	36.200	4859MODE CODE 2	IND
	IU	LDO 0734 ON	36.208	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	36.468	4859MODE CODE 2	IND
	IU	LDO 0734 ON	36.476	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	36.560	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	36.644	2596TCS PULSE	OK
S1B		MDI 2187 ON	37.016	2596TCS PULSE	OK
	IU	LDO 0734 ON	37.384	4859MODE CODE 2	IND

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S1B	IU	LDO 0734 OFF	37.440	4859MODE CODE 2 IND
		MDI 2187 OFF	37.644	2596TCS PULSE OK
S1B	IU	LDO 0734 ON	37.644	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	37.660	4859MODE CODE 2 IND
	IU	LDO 0734 ON	37.728	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	37.880	4859MODE CODE 2 IND
	IU	LDO 0734 ON	37.888	4859MODE CODE 2 IND
		MDI 2187 ON	38.016	2596TCS PULSE OK
S1B	IU	LDO 0734 OFF	38.152	4859MODE CODE 2 IND
	IU	LDO 0734 ON	38.156	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	38.276	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	38.644	2596TCS PULSE OK
S1B		MDI 2187 ON	39.016	2596TCS PULSE OK
	IU	LDO 0734 ON	39.104	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	39.148	4859MODE CODE 2 IND
	IU	LDO 0734 ON	39.328	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	39.340	4859MODE CODE 2 IND
	IU	LDO 0734 ON	39.392	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	39.560	4859MODE CODE 2 IND
	IU	LDO 0734 ON	39.888	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	39.644	2596TCS PULSE OK
	IU	LDO 0734 OFF	39.848	4859MODE CODE 2 IND
	IU	LDO 0734 ON	39.880	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	39.964	4859MODE CODE 2 IND
S1B		MDI 2187 ON	40.016	2596TCS PULSE OK
S1B		MDI 2187 OFF	40.644	2596TCS PULSE OK
	IU	LDO 0734 ON	40.792	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	40.832	4859MODE CODE 2 IND
S1B	IU	LDO 0734 ON	41.012	4859MODE CODE 2 IND
		MDI 2187 ON	41.016	2596TCS PULSE OK
	IU	LDO 0734 OFF	41.024	4859MODE CODE 2 IND
	IU	LDO 0734 ON	41.096	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	41.248	4859MODE CODE 2 IND
	IU	LDO 0734 ON	41.256	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	41.560	4859MODE CODE 2 IND
	IU	LDO 0734 ON	41.564	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	41.644	2596TCS PULSE OK
S1B	IU	LDO 0734 OFF	41.648	4859MODE CODE 2 IND
		MDI 2187 ON	42.012	2596TCS PULSE OK
S1B	IU	LDO 0734 ON	42.480	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	42.524	4859MODE CODE 2 IND
		MDI 2187 OFF	42.644	2596TCS PULSE OK
S1B	IU	LDO 0734 ON	42.704	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	42.724	4859MODE CODE 2 IND
	IU	LDO 0734 ON	42.772	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	42.948	4859MODE CODE 2 IND

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TEST SIM FLT VAL CAT 400 73 11

S1B	IU	LDO 0734 ON	42.956	4859MODE CODE 2 IND
		MDI 2187 ON	43.012	2596TCS PULSE OK
S1B	IU	LDO 0734 OFF	43.244	4859MODE CODE 2 IND
	IU	LDO 0734 ON	43.248	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	43.332	4859MODE CODE 2 IND
		MDI 2187 OFF	43.644	2596TCS PULSE OK
S1B		MDI 2187 ON	44.012	2596TCS PULSE OK
	IU	LDO 0734 ON	44.100	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	44.216	4859MODE CODE 2 IND
	IU	LDO 0734 ON	44.380	4859MODE CODE 2 IND
S1B	IU	LDO 0734 OFF	44.420	4859MODE CODE 2 IND
	IU	LDO 0734 ON	44.452	4859MODE CODE 2 IND
		MDI 2187 OFF	44.644	2596TCS PULSE OK
	IU	LDO 0734 OFF	44.656	4859MODE CODE 2 IND
S1B	IU	LDO 0734 ON	44.660	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	44.912	4859MODE CODE 2 IND
	IU	LDO 0734 ON	44.944	4859MODE CODE 2 IND
		MDI 2187 ON	45.012	2596TCS PULSE OK
S1B	IU	LDO 0734 OFF	45.024	4859MODE CODE 2 IND
		MDI 2187 OFF	45.644	2596TCS PULSE OK
	IU	LDO 0734 ON	45.844	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	45.884	4859MODE CODE 2 IND
S1B		MDI 2187 ON	46.012	2596TCS PULSE OK
	IU	LDO 0734 ON	46.060	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	46.080	4859MODE CODE 2 IND
	IU	LDO 0734 ON	46.136	4859MODE CODE 2 IND
S1B	IU	LDO 0734 OFF	46.336	4859MODE CODE 2 IND
	IU	LDO 0734 ON	46.344	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	46.588	4859MODE CODE 2 IND
	IU	LDO 0734 ON	46.624	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	46.644	2596TCS PULSE OK
	IU	LDO 0734 OFF	46.704	4859MODE CODE 2 IND
S1B		MDI 2187 ON	47.012	2596TCS PULSE OK
	IU	LDO 0734 ON	47.508	4859MODE CODE 2 IND
S1B	IU	LDO 0734 OFF	47.548	4859MODE CODE 2 IND
		MDI 2187 OFF	47.644	2596TCS PULSE OK
	IU	LDO 0734 ON	47.748	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	47.760	4859MODE CODE 2 IND
S1B	IU	LDO 0734 ON	47.816	4859MODE CODE 2 IND
		MDI 2187 ON	48.012	2596TCS PULSE OK
	IU	LDO 0734 OFF	48.020	4859MODE CODE 2 IND
	IU	LDO 0734 ON	48.028	4859MODE CODE 2 IND
S1B	IU	LDO 0734 OFF	48.280	4859MODE CODE 2 IND
	IU	LDO 0734 ON	48.312	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	48.388	4859MODE CODE 2 IND
		MDI 2187 OFF	48.644	2596TCS PULSE OK

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TEST SIM FLT MAL CAT 23 11

S1B		MDI 2187 ON 49.012 2596TCS PULSE OK
	IU	LDO 0734 ON 49.216 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 49.256 4859MODE CODE 2 IND
	IU	LDO 0734 ON 49.432 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 49.444 4859MODE CODE 2 IND
	IU	LDO 0734 ON 49.532 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 49.644 2596TCS PULSE OK
	IU	LDO 0734 OFF 49.700 4859MODE CODE 2 IND
	IU	LDO 0734 ON 49.712 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 49.952 4859MODE CODE 2 IND
	IU	LDO 0734 ON 49.988 4859MODE CODE 2 IND
S1B		MDI 2187 ON 50.012 2596TCS PULSE OK
	IU	LDO 0734 OFF 50.068 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 50.644 2596TCS PULSE OK
	IU	LDO 0734 ON 50.872 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 50.912 4859MODE CODE 2 IND
S1B		MDI 2187 ON 51.012 2596TCS PULSE OK
	IU	LDO 0734 ON 51.128 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 51.136 4859MODE CODE 2 IND
	IU	LDO 0734 ON 51.192 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 51.364 4859MODE CODE 2 IND
	IU	LDO 0734 ON 51.368 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 51.608 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 51.644 2596TCS PULSE OK
	IU	LDO 0734 ON 51.644 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 51.732 4859MODE CODE 2 IND
S1B		MDI 2187 ON 52.012 2596TCS PULSE OK
	IU	LDO 0734 ON 52.528 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 52.568 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 52.644 2596TCS PULSE OK
	IU	LDO 0734 ON 52.800 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 52.840 4859MODE CODE 2 IND
	IU	LDO 0734 ON 52.872 4859MODE CODE 2 IND
S1B		MDI 2187 ON 53.012 2596TCS PULSE OK
	IU	LDO 0734 OFF 53.020 4859MODE CODE 2 IND
	IU	LDO 0734 ON 53.324 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 53.292 4859MODE CODE 2 IND
	IU	LDO 0734 ON 53.296 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 53.380 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 53.644 2596TCS PULSE OK
S1B		MDI 2187 ON 54.012 2596TCS PULSE OK
	IU	LDO 0734 ON 54.212 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 54.252 4859MODE CODE 2 IND
	IU	LDO 0734 ON 54.476 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 54.516 4859MODE CODE 2 IND
	IU	LDO 0734 ON 54.552 4859MODE CODE 2 IND

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TEST SIM FLT MAL DAT 700 70 11

S1B		MDI 2187 OFF 54.644 2596TCS PULSE OK
	IU	LDO 0734 OFF 54.700 4859MODE CODE 2 IND
	IU	LDO 0734 ON 54.712 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 54.972 4859MODE CODE 2 IND
	IU	LDO 0734 ON 54.980 4859MODE CODE 2 IND
S1B		MDI 2187 ON 55.012 2596TCS PULSE OK
	IU	LDO 0734 OFF 55.072 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 55.640 2596TCS PULSE OK
	IU	LDO 0734 ON 55.924 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 55.964 4859MODE CODE 2 IND
S1B		MDI 2187 ON 56.012 2596TCS PULSE OK
	IU	LDO 0734 ON 56.148 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 56.160 4859MODE CODE 2 IND
	IU	LDO 0734 ON 56.212 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 56.380 4859MODE CODE 2 IND
	IU	LDO 0734 ON 56.388 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 56.640 2596TCS PULSE OK
	IU	LDO 0734 OFF 56.656 4859MODE CODE 2 IND
	IU	LDO 0734 ON 56.664 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 56.780 4859MODE CODE 2 IND
S1B		MDI 2187 ON 57.012 2596TCS PULSE OK
	IU	LDO 0734 ON 57.608 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 57.640 2596TCS PULSE OK
	IU	LDO 0734 OFF 57.652 4859MODE CODE 2 IND
	IU	LDO 0734 ON 57.832 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 57.844 4859MODE CODE 2 IND
	IU	LDO 0734 ON 57.896 4859MODE CODE 2 IND
S1B		MDI 2187 ON 58.012 2596TCS PULSE OK
	IU	LDO 0734 OFF 58.068 4859MODE CODE 2 IND
	IU	LDO 0734 ON 58.080 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 58.380 4859MODE CODE 2 IND
	IU	LDO 0734 ON 58.384 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 58.468 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 58.640 2596TCS PULSE OK
S1B		MDI 2187 ON 59.012 2596TCS PULSE OK
	IU	LDO 0734 ON 59.292 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 59.336 4859MODE CODE 2 IND
	IU	LDO 0734 ON 59.512 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 59.552 4859MODE CODE 2 IND
	IU	LDO 0734 ON 59.588 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 59.640 2596TCS PULSE OK
	IU	LDO 0734 OFF 59.752 4859MODE CODE 2 IND
	IU	LDO 0734 ON 59.760 4859MODE CODE 2 IND
S1 940	IU	CDC 00 04
S1		MDI 2187 ON 00.012 2596TCS PULSE OK
	IU	LDO 0734 OFF 00.068 4859MODE CODE 2 IND

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TEST S14 FLT MAL CAT 73 11

	IU	LDO 0734 ON	00.072	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	00.152	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	00.640	2596TCS PULSE	OK
	IU	LDO 0734 ON	00.984	4859MODE CODE 2	IND
S1B		MDI 2187 ON	01.012	2596TCS PULSE	OK
	IU	LDO 0734 OFF	01.028	4859MODE CODE 2	IND
	IU	LDO 0734 ON	01.208	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	01.220	4859MODE CODE 2	IND
	IU	LDO 0734 ON	01.268	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	01.436	4859MODE CODE 2	IND
	IU	LDO 0734 ON	01.444	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	01.640	2596TCS PULSE	OK
	IU	LDO 0734 OFF	01.748	4859MODE CODE 2	IND
	IU	LDO 0734 ON	01.756	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	01.840	4859MODE CODE 2	IND
S1B		MDI 2187 ON	02.012	2596TCS PULSE	OK
S1B		MDI 2187 OFF	02.640	2596TCS PULSE	OK
	IU	LDO 0734 ON	02.672	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	02.744	4859MODE CODE 2	IND
	IU	LDO 0734 ON	02.896	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	02.908	4859MODE CODE 2	IND
	IU	LDO 0734 ON	02.956	4859MODE CODE 2	IND
S1B		MDI 2187 ON	03.012	2596TCS PULSE	OK
	IU	LDO 0734 OFF	03.164	4859MODE CODE 2	IND
	IU	LDO 0734 ON	03.172	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	03.444	4859MODE CODE 2	IND
	IU	LDO 0734 ON	03.452	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	03.528	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	03.640	2596TCS PULSE	OK
S1B		MDI 2187 ON	04.012	2596TCS PULSE	OK
	IU	LDO 0734 ON	04.356	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	04.396	4859MODE CODE 2	IND
	IU	LDO 0734 ON	04.580	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	04.592	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	04.640	2596TCS PULSE	OK
	IU	LDO 0734 ON	04.744	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	04.852	4859MODE CODE 2	IND
	IU	LDO 0734 ON	04.860	4859MODE CODE 2	IND
S1B		MDI 2187 ON	05.012	2596TCS PULSE	OK
	IU	LDO 0734 OFF	05.120	4859MODE CODE 2	IND
	IU	LDO 0734 ON	05.128	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	05.212	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	05.640	2596TCS PULSE	OK
S1B		MDI 2187 ON	06.012	2596TCS PULSE	OK
	IU	LDO 0734 ON	06.040	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	06.080	4859MODE CODE 2	IND

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	IU	LDO 0734 ON	06.260	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	06.272	4859MODE CODE 2	IND
	IU	LDO 0734 ON	06.324	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	06.532	4859MODE CODE 2	IND
	IU	LDO 0734 ON	06.540	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	06.640	2596TCS PULSE	OK
	IU	LDO 0734 OFF	06.784	4859MODE CODE 2	IND
	IU	LDO 0734 ON	06.820	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	06.896	4859MODE CODE 2	IND
S1B		MDI 2187 ON	07.012	2596TCS PULSE	OK
S1B		MDI 2187 OFF	07.640	2596TCS PULSE	OK
	IU	LDO 0734 ON	07.736	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	07.776	4859MODE CODE 2	IND
	IU	LDO 0734 ON	07.948	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	07.964	4859MODE CODE 2	IND
S1B		MDI 2187 ON	08.012	2596TCS PULSE	OK
	IU	LDO 0734 ON	08.040	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	08.112	4859MODE CODE 2	IND
	IU	LDO 0734 ON	08.220	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	08.448	4859MODE CODE 2	IND
	IU	LDO 0734 ON	08.496	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	08.580	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	08.640	2596TCS PULSE	OK
S1B		MDI 2187 ON	09.012	2596TCS PULSE	OK
	IU	LDO 0734 ON	09.412	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	09.452	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	09.640	2596TCS PULSE	OK
	IU	LDO 0734 ON	09.656	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	09.696	4859MODE CODE 2	IND
	IU	LDO 0734 ON	09.736	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	09.900	4859MODE CODE 2	IND
	IU	LDO 0734 ON	09.908	4859MODE CODE 2	IND
S1B		MDI 2187 ON	10.012	2596TCS PULSE	OK
	IU	LDO 0734 OFF	10.172	4859MODE CODE 2	IND
	IU	LDO 0734 ON	10.180	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	10.264	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	10.640	2596TCS PULSE	OK
S1B		MDI 2187 ON	11.012	2596TCS PULSE	OK
	IU	LDO 0734 ON	11.096	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	11.136	4859MODE CODE 2	IND
	IU	LDO 0734 ON	11.344	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	11.356	4859MODE CODE 2	IND
	IU	LDO 0734 ON	11.412	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	11.580	4859MODE CODE 2	IND
	IU	LDO 0734 ON	11.588	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	11.640	2596TCS PULSE	OK

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	IU	LDO 0734 OFF	11.852	4859MODE CODE 2	IND
	IU	LDO 0734 ON	11.860	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	11.944	4859MODE CODE 2	IND
S1B		MDI 2187 ON	12.012	2596TCS PULSE	OK
S1B		MDI 2187 OFF	12.540	2596TCS PULSE	OK
	IU	LDO 0734 ON	12.768	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.808	4859MODE CODE 2	IND
S1B		MDI 2187 ON	13.012	2596TCS PULSE	OK
	IU	LDO 0734 ON	13.028	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	13.040	4859MODE CODE 2	IND
	IU	LDO 0734 ON	13.108	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	13.268	4859MODE CODE 2	IND
	IU	LDO 0734 ON	13.276	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	13.532	4859MODE CODE 2	IND
	IU	LDO 0734 ON	13.540	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	13.640	2596TCS PULSE	OK
	IU	LDO 0734 OFF	13.660	4859MODE CODE 2	IND
S1B		MDI 2187 ON	14.012	2596TCS PULSE	OK
	IU	LDO 0734 ON	14.492	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.532	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	14.640	2596TCS PULSE	OK
	IU	LDO 0734 ON	14.728	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.740	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.784	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.948	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.956	4859MODE CODE 2	IND
S1B		MDI 2187 ON	15.012	2596TCS PULSE	OK
	IU	LDO 0734 OFF	15.212	4859MODE CODE 2	IND
	IU	LDO 0734 ON	15.260	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	15.344	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	15.640	2596TCS PULSE	OK
S1B		MDI 2187 ON	15.612	2596TCS PULSE	OK
	IU	LDO 0734 ON	16.176	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	16.216	4859MODE CODE 2	IND
	IU	LDO 0734 ON	16.396	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	16.408	4859MODE CODE 2	IND
	IU	LDO 0734 ON	16.464	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	16.628	4859MODE CODE 2	IND
	IU	LDO 0734 ON	16.636	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	16.840	2596TCS PULSE	OK
	IU	LDO 0734 OFF	16.944	4859MODE CODE 2	IND
	IU	LDO 0734 ON	16.952	4859MODE CODE 2	IND
S1B		MDI 2187 ON	17.012	2596TCS PULSE	OK
	IU	LDO 0734 OFF	17.032	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	17.640	2596TCS PULSE	OK
	IU	LDO 0734 ON	17.864	4859MODE CODE 2	IND

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TEST SIM FLT MAL OAT RUN /3

	IU	LDO 0734 OFF	17.908	4859MODE CODE 2 IND
S1B		MDI 2187 ON	18.112	2596TCS PULSE OK
	IU	LDO 0734 ON	18.104	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	18.116	4859MODE CODE 2 IND
	IU	LDO 0734 ON	18.156	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	18.320	4859MODE CODE 2 IND
	IU	LDO 0734 ON	18.324	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	18.536	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	18.640	2596TCS PULSE OK
	IU	LDO 0734 ON	18.640	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	18.740	4859MODE CODE 2 IND
S1B		MDI 2187 ON	19.012	2596TCS PULSE OK
	IU	LDO 0734 ON	19.548	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	19.588	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	19.640	2596TCS PULSE OK
	IU	LDO 0734 ON	19.772	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	19.784	4859MODE CODE 2 IND
	IU	LDO 0734 ON	19.848	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	20.008	4859MODE CODE 2 IND
S1B		MDI 2187 ON	20.012	2596TCS PULSE OK
	IU	LDO 0734 ON	20.016	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	20.292	4859MODE CODE 2 IND
	IU	LDO 0734 ON	20.328	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	20.404	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	20.640	2596TCS PULSE OK
S1B		MDI 2187 ON	21.112	2596TCS PULSE OK
	IU	LDO 0734 ON	21.112	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	21.372	4859MODE CODE 2 IND
	IU	LDO 0734 ON	21.448	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	21.488	4859MODE CODE 2 IND
	IU	LDO 0734 ON	21.524	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	21.640	2596TCS PULSE OK
	IU	LDO 0734 OFF	21.732	4859MODE CODE 2 IND
	IU	LDO 0734 ON	21.740	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	22.000	4859MODE CODE 2 IND
	IU	LDO 0734 ON	22.008	4859MODE CODE 2 IND
S1B		MDI 2187 ON	22.012	2596TCS PULSE OK
	IU	LDO 0734 OFF	22.096	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	22.640	2596TCS PULSE OK
	IU	LDO 0734 ON	22.920	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	22.960	4859MODE CODE 2 IND
S1B		MDI 2187 ON	23.012	2596TCS PULSE OK
	IU	LDO 0734 ON	23.140	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	23.180	4859MODE CODE 2 IND
	IU	LDO 0734 ON	23.216	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	23.412	4859MODE CODE 2 IND

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S18	IU	LDO 0734 ON	23.416	4859MODE CODE 2 IND
		MDI 2187 OFF	23.640	2596TCS PULSE OK
	IU	LDO 0734 OFF	23.692	4859MODE CODE 2 IND
	IU	LDO 0734 ON	23.700	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	23.780	4859MODE CODE 2 IND
S18		MDI 2187 ON	24.012	2596TCS PULSE OK
	IU	LDO 0734 ON	24.608	4859MODE CODE 2 IND
S18		MDI 2187 OFF	24.640	2596TCS PULSE OK
	IU	LDO 0734 OFF	24.648	4859MODE CODE 2 IND
	IU	LDO 0734 ON	24.828	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	24.840	4859MODE CODE 2 IND
	IU	LDO 0734 ON	24.928	4859MODE CODE 2 IND
S18		MDI 2187 ON	25.012	2596TCS PULSE OK
	IU	LDO 0734 OFF	25.104	4859MODE CODE 2 IND
	IU	LDO 0734 ON	25.112	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	25.352	4859MODE CODE 2 IND
	IU	LDO 0734 ON	25.388	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	25.460	4859MODE CODE 2 IND
S18		MDI 2187 OFF	25.640	2596TCS PULSE OK
S18		MDI 2187 ON	26.012	2596TCS PULSE OK
	IU	LDO 0734 ON	26.292	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	26.332	4859MODE CODE 2 IND
	IU	LDO 0734 ON	26.544	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	26.556	4859MODE CODE 2 IND
	IU	LDO 0734 ON	26.616	4859MODE CODE 2 IND
S18		MDI 2187 OFF	26.640	2596TCS PULSE OK
	IU	LDO 0734 OFF	26.784	4859MODE CODE 2 IND
	IU	LDO 0734 ON	26.792	4859MODE CODE 2 IND
S18		MDI 2187 ON	27.012	2596TCS PULSE OK
	IU	LDO 0734 OFF	27.064	4859MODE CODE 2 IND
	IU	LDO 0734 ON	27.068	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	27.148	4859MODE CODE 2 IND
S18		MDI 2187 OFF	27.640	2596TCS PULSE OK
	IU	LDO 0734 ON	27.956	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	27.996	4859MODE CODE 2 IND
S18		MDI 2187 ON	28.012	2596TCS PULSE OK
	IU	LDO 0734 ON	28.204	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	28.216	4859MODE CODE 2 IND
	IU	LDO 0734 ON	28.268	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	28.440	4859MODE CODE 2 IND
	IU	LDO 0734 ON	28.448	4859MODE CODE 2 IND
S18		MDI 2187 OFF	28.640	2596TCS PULSE OK
	IU	LDO 0734 OFF	28.692	4859MODE CODE 2 IND
	IU	LDO 0734 ON	28.732	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	28.800	4859MODE CODE 2 IND
S18		MDI 2187 ON	29.012	2596TCS PULSE OK

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	IU	LDO 0734 ON	29.636	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	29.640	2596TCS PULSE	OK
	IU	LDO 0734 OFF	29.676	4859MODE CODE 2	IND
	IU	LDO 0734 ON	29.892	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	29.904	4859MODE CODE 2	IND
	IU	LDO 0734 ON	29.960	4859MODE CODE 2	IND
S1B		MDI 2187 ON	30.012	2596TCS PULSE	OK
	IU	LDO 0734 OFF	30.128	4859MODE CODE 2	IND
	IU	LDO 0734 ON	30.132	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	30.400	4859MODE CODE 2	IND
	IU	LDO 0734 ON	30.408	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	30.428	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	30.640	2596TCS PULSE	OK
S1B		MDI 2187 ON	31.012	2596TCS PULSE	OK
	IU	LDO 0734 ON	31.356	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	31.400	4859MODE CODE 2	IND
	IU	LDO 0734 ON	31.596	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	31.600	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	31.640	2596TCS PULSE	OK
	IU	LDO 0734 ON	31.848	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	31.812	4859MODE CODE 2	IND
	IU	LDO 0734 ON	31.816	4859MODE CODE 2	IND
S1B		MDI 2187 ON	32.012	2596TCS PULSE	OK
	IU	LDO 0734 OFF	32.128	4859MODE CODE 2	IND
	IU	LDO 0734 ON	32.136	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	32.212	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	32.640	2596TCS PULSE	OK
S1B		MDI 2187 ON	33.012	2596TCS PULSE	OK
	IU	LDO 0734 ON	33.056	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	33.100	4859MODE CODE 2	IND
	IU	LDO 0734 ON	33.264	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	33.304	4859MODE CODE 2	IND
	IU	LDO 0734 ON	33.340	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	33.508	4859MODE CODE 2	IND
	IU	LDO 0734 ON	33.512	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	33.640	2596TCS PULSE	OK
	IU	LDO 0734 OFF	33.816	4859MODE CODE 2	IND
	IU	LDO 0734 ON	33.820	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	33.904	4859MODE CODE 2	IND
S1B		MDI 2187 ON	34.012	2596TCS PULSE	OK
S1B		MDI 2187 OFF	34.640	2596TCS PULSE	OK
	IU	LDO 0734 ON	34.740	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	34.752	4859MODE CODE 2	IND
	IU	LDO 0734 ON	34.948	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	34.960	4859MODE CODE 2	IND
S1B		MDI 2187 ON	35.012	2596TCS PULSE	OK

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	IU	LDO 0734 ON	35.016	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	35.184	4859MODE CODE 2	IND
	IU	LDO 0734 ON	35.192	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	35.496	4859MODE CODE 2	IND
	IU	LDO 0734 ON	35.504	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	35.588	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	35.640	2596TCS PULSE	OK
S1B		MDI 2187 ON	36.008	2596TCS PULSE	OK
	IU	LDO 0734 ON	36.412	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	36.456	4859MODE CODE 2	IND
	IU	LDO 0734 ON	36.636	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	36.640	2596TCS PULSE	OK
	IU	LDO 0734 OFF	36.676	4859MODE CODE 2	IND
	IU	LDO 0734 ON	36.712	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	36.864	4859MODE CODE 2	IND
	IU	LDO 0734 ON	36.872	4859MODE CODE 2	IND
S1B		MDI 2187 ON	37.008	2596TCS PULSE	OK
	IU	LDO 0734 OFF	37.180	4859MODE CODE 2	IND
	IU	LDO 0734 ON	37.184	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	37.268	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	37.640	2596TCS PULSE	OK
S1B		MDI 2187 ON	38.008	2596TCS PULSE	OK
	IU	LDO 0734 ON	38.104	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	38.152	4859MODE CODE 2	IND
	IU	LDO 0734 ON	38.324	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	38.364	4859MODE CODE 2	IND
	IU	LDO 0734 ON	38.400	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	38.588	4859MODE CODE 2	IND
	IU	LDO 0734 ON	38.596	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	38.640	2596TCS PULSE	OK
	IU	LDO 0734 OFF	38.904	4859MODE CODE 2	IND
	IU	LDO 0734 ON	38.912	4859MODE CODE 2	IND
S1B		MDI 2187 ON	39.008	2596TCS PULSE	OK
	IU	LDO 0734 OFF	39.016	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	39.640	2596TCS PULSE	OK
	IU	LDO 0734 ON	39.892	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	39.932	4859MODE CODE 2	IND
S1B		MDI 2187 ON	40.008	2596TCS PULSE	OK
	IU	LDO 0734 ON	40.152	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	40.164	4859MODE CODE 2	IND
	IU	LDO 0734 ON	40.228	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	40.400	4859MODE CODE 2	IND
	IU	LDO 0734 ON	40.408	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	40.640	2596TCS PULSE	OK
	IU	LDO 0734 OFF	40.684	4859MODE CODE 2	IND
	IU	LDO 0734 ON	40.692	4859MODE CODE 2	IND

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	IU	LDO 0734 OFF 40.792 4859MODE CODE 2 IND
S1B		MDI 2187 ON 41.008 2596TCS PULSE OK
S1B		DDA 0023 OFF 41.304 5201VK0353-340
S1B		MDI 2187 OFF 41.640 2596TCS PULSE OK
	IU	LDO 0734 ON 41.688 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 41.736 4859MODE CODE 2 IND
	IU	LDO 0734 ON 41.952 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 41.968 4859MODE CODE 2 IND
S1B		MDI 2187 ON 42.008 2596TCS PULSE OK
	IU	LDO 0734 ON 42.020 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 42.184 4859MODE CODE 2 IND
	IU	LDO 0734 ON 42.220 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 42.472 4859MODE CODE 2 IND
	IU	LDO 0734 ON 42.504 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 42.624 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 42.640 2596TCS PULSE OK
S1B		MDI 2187 ON 43.008 2596TCS PULSE OK
	IU	LDO 0734 ON 43.504 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 43.576 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 43.640 2596TCS PULSE OK
	IU	LDO 0734 ON 43.772 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 43.784 4859MODE CODE 2 IND
	IU	LDO 0734 ON 43.824 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 43.988 4859MODE CODE 2 IND
	IU	LDO 0734 ON 43.996 4859MODE CODE 2 IND
S1B		MDI 2187 ON 44.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 44.276 4859MODE CODE 2 IND
	IU	LDO 0734 ON 44.316 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 44.392 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 44.640 2596TCS PULSE OK
S1B		MDI 2187 ON 45.008 2596TCS PULSE OK
	IU	LDO 0734 ON 45.024 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 45.268 4859MODE CODE 2 IND
	IU	LDO 0734 ON 45.456 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 45.496 4859MODE CODE 2 IND
	IU	LDO 0734 ON 45.532 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 45.640 2596TCS PULSE OK
	IU	LDO 0734 OFF 45.676 4859MODE CODE 2 IND
	IU	LDO 0734 ON 45.684 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 45.988 4859MODE CODE 2 IND
	IU	LDO 0734 ON 45.996 4859MODE CODE 2 IND
S1B		MDI 2187 ON 46.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 46.088 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 46.640 2596TCS PULSE OK
	IU	LDO 0734 ON 46.904 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 46.944 4859MODE CODE 2 IND

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S18		MDI 2187 ON 47.008 2596TCS PULSE OK
	IU	LDO 0734 ON 47.124 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 47.136 4859MODE CODE 2 IND
	IU	LDO 0734 ON 47.188 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 47.396 4859MODE CODE 2 IND
	IU	LDO 0734 ON 47.404 4859MODE CODE 2 IND
S18		MDI 2187 OFF 47.640 2596TCS PULSE OK
	IU	LDO 0734 OFF 47.672 4859MODE CODE 2 IND
	IU	LDO 0734 ON 47.676 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 47.768 4859MODE CODE 2 IND
S18		MDI 2187 ON 48.008 2596TCS PULSE OK
	IU	LDO 0734 ON 48.592 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.636 4859MODE CODE 2 IND
S18		MDI 2187 OFF 48.640 2596TCS PULSE OK
	IU	LDO 0734 ON 48.832 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.844 4859MODE CODE 2 IND
	IU	LDO 0734 ON 48.884 4859MODE CODE 2 IND
S18		MDI 2187 ON 49.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 49.092 4859MODE CODE 2 IND
	IU	LDO 0734 ON 49.100 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 49.264 4859MODE CODE 2 IND
	IU	LDO 0734 ON 49.368 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 49.452 4859MODE CODE 2 IND
S18		MDI 2187 OFF 49.640 2596TCS PULSE OK
S18		MDI 2187 ON 50.008 2596TCS PULSE OK
	IU	LDO 0734 ON 50.288 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 50.328 4859MODE CODE 2 IND
	IU	LDO 0734 ON 50.528 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 50.540 4859MODE CODE 2 IND
	IU	LDO 0734 ON 50.612 4859MODE CODE 2 IND
S18		MDI 2187 OFF 50.636 2596TCS PULSE OK
	IU	LDO 0734 OFF 50.776 4859MODE CODE 2 IND
	IU	LDO 0734 ON 50.812 4859MODE CODE 2 IND
S18		MDI 2187 ON 51.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 51.060 4859MODE CODE 2 IND
	IU	LDO 0734 ON 51.100 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 51.172 4859MODE CODE 2 IND
S18		MDI 2187 OFF 51.636 2596TCS PULSE OK
	IU	LDO 0734 ON 51.976 4859MODE CODE 2 IND
S18		MDI 2187 ON 52.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 52.016 4859MODE CODE 2 IND
S18		DDA 0023 ON 52.136 5201VK0353-340
	IU	LDO 0734 ON 52.212 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 52.256 4859MODE CODE 2 IND
	IU	LDO 0734 ON 52.308 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 52.472 4859MODE CODE 2 IND

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	IU	LDO 0734 ON	52.480	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	52.636	2596TCS PULSE OK
	IU	LDO 0734 OFF	52.748	4859MODE CODE 2 IND
	IU	LDO 0734 ON	52.756	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	52.836	4859MODE CODE 2 IND
S1B		MDI 2187 ON	53.008	2596TCS PULSE OK
S1B		MDI 2187 OFF	53.636	2596TCS PULSE OK
	IU	LDO 0734 ON	53.668	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	53.740	4859MODE CODE 2 IND
	IU	LDO 0734 ON	53.920	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	53.964	4859MODE CODE 2 IND
	IU	LDO 0734 ON	54.000	4859MODE CODE 2 IND
S1B		MDI 2187 ON	54.008	2596TCS PULSE OK
	IU	LDO 0734 OFF	54.160	4859MODE CODE 2 IND
	IU	LDO 0734 ON	54.168	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	54.436	4859MODE CODE 2 IND
	IU	LDO 0734 ON	54.444	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	54.524	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	54.636	2596TCS PULSE OK
S1B		MDI 2187 ON	55.008	2596TCS PULSE OK
	IU	LDO 0734 ON	55.356	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	55.404	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	55.636	2596TCS PULSE OK
	IU	LDO 0734 ON	55.652	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	55.664	4859MODE CODE 2 IND
	IU	LDO 0734 ON	55.700	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	55.844	4859MODE CODE 2 IND
	IU	LDO 0734 ON	55.880	4859MODE CODE 2 IND
S1B		MDI 2187 ON	56.008	2596TCS PULSE OK
	IU	LDO 0734 OFF	56.132	4859MODE CODE 2 IND
	IU	LDO 0734 ON	56.140	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	56.276	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	56.636	2596TCS PULSE OK
S1B		MDI 2187 ON	57.008	2596TCS PULSE OK
	IU	LDO 0734 ON	57.156	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	57.196	4859MODE CODE 2 IND
	IU	LDO 0734 ON	57.388	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	57.428	4859MODE CODE 2 IND
	IU	LDO 0734 ON	57.464	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	57.616	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	57.636	2596TCS PULSE OK
	IU	LDO 0734 ON	57.652	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	57.964	4859MODE CODE 2 IND
	IU	LDO 0734 ON	57.972	4859MODE CODE 2 IND
S1B		MDI 2187 ON	58.008	2596TCS PULSE OK
	IU	LDO 0734 OFF	58.080	4859MODE CODE 2 IND

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S1B		MDI 2187 OFF 58.636 2596TCS PULSE OK
	IU	LDO 0734 ON 58.948 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 58.992 4859MODE CODE 2 IND
S1B		MDI 2187 ON 59.008 2596TCS PULSE OK
	IU	LDO 0734 ON 59.176 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 59.216 4859MODE CODE 2 IND
	IU	LDO 0734 ON 59.252 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 59.408 4859MODE CODE 2 IND
	IU	LDO 0734 ON 59.440 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 59.636 2596TCS PULSE OK
	IU	LDO 0734 OFF 59.736 4859MODE CODE 2 IND
	IU	LDO 0734 ON 59.744 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 59.848 4859MODE CODE 2 IND
S1B 048	IU	CPC 00 00
S1B		MDI 2187 ON 00.008 2596TCS PULSE OK
S1B		MDI 2187 OFF 00.636 2596TCS PULSE OK
	IU	LDO 0734 ON 00.732 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 00.776 4859MODE CODE 2 IND
	IU	LDO 0734 ON 00.956 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 00.972 4859MODE CODE 2 IND
S1B		MDI 2187 ON 01.008 2596TCS PULSE OK
	IU	LDO 0734 ON 01.024 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 01.228 4859MODE CODE 2 IND
	IU	LDO 0734 ON 01.264 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 01.516 4859MODE CODE 2 IND
	IU	LDO 0734 ON 01.552 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 01.632 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 01.636 2596TCS PULSE OK
S1B		MDI 2187 ON 02.008 2596TCS PULSE OK
	IU	LDO 0734 ON 02.460 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 02.504 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 02.736 2596TCS PULSE OK
	IU	LDO 0734 ON 02.732 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 02.744 4859MODE CODE 2 IND
	IU	LDO 0734 ON 02.792 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 02.956 4859MODE CODE 2 IND
	IU	LDO 0734 ON 02.964 4859MODE CODE 2 IND
S1B		MDI 2187 ON 03.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 03.228 4859MODE CODE 2 IND
	IU	LDO 0734 ON 03.236 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 03.320 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 03.636 2596TCS PULSE OK
	IU	MDO 1904 ON 03.980 1601EDS RG ROLL AXIS SEL ON
	IU	MDI 0632 ON 03.984 3332EDSRG ROLL AXIS SELECT
S1B		MDI 2187 ON 04.008 2596TCS PULSE OK
	IU	LDO 0632 ON 04.036 4399EDSRG ROLL AXIS SELECT

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	IU	LDO 0734 ON	04.160	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	04.200	4859MODE CODE 2	IND
	IU	LDO 0734 ON	04.416	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	04.456	4859MODE CODE 2	IND
	IU	LDO 0734 ON	04.492	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	04.636	2596TCS PULSE	OK
	IU	LDO 0734 OFF	04.644	4859MODE CODE 2	IND
	IU	LDO 0734 ON	04.688	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	04.920	4859MODE CODE 2	IND
	IU	LDO 0734 ON	04.924	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	05.004	4859MODE CODE 2	IND
S1B		MDI 2187 ON	05.008	2596TCS PULSE	OK
S1B		MDI 2187 OFF	05.636	2596TCS PULSE	OK
	IU	LDO 0734 ON	05.832	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	05.880	4859MODE CODE 2	IND
S1B		MDI 2187 ON	06.008	2596TCS PULSE	OK
	IU	LDO 0734 ON	06.108	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	06.148	4859MODE CODE 2	IND
	IU	LDO 0734 ON	06.184	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	06.328	4859MODE CODE 2	IND
	IU	LDO 0734 ON	06.332	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	06.600	4859MODE CODE 2	IND
	IU	LDO 0734 ON	06.608	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	06.636	2596TCS PULSE	OK
	IU	LDO 0734 OFF	06.736	4859MODE CODE 2	IND
	IU	MDI 0695 ON	06.972	2027RAMP	NEG
	IU	MDI 0889 ON	06.980	3577RAMP	IND
	IU	MDI 2236 OFF	06.996	2605RAMP NO 1	ZERO
	IU	MDI 2237 OFF	06.996	2606RAMP NO 2	ZERO
	IU	MDI 2238 OFF	06.996	2607RAMP NO 3	ZERO
S1B		MDI 2187 ON	07.008	2596TCS PULSE	OK
	IU	LDO 0889 ON	07.028	4674RAMP	IND
S1B		DDA 2125 OFF	07.360	4119VR0029-602	
S1B		DDA 2126 OFF	07.440	4120VR0028-602	
	IU	LDO 0734 ON	07.560	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	07.604	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	07.636	2596TCS PULSE	OK
	IU	LDO 0734 ON	07.780	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	07.792	4859MODE CODE 2	IND
	IU	LDO 0734 ON	07.844	4859MODE CODE 2	IND
	IU	MDI 0695 OFF	08.004	2027RAMP	NEG
S1B		MDI 2187 ON	08.008	2596TCS PULSE	OK
	IU	MDI 0889 OFF	08.012	3577RAMP	IND
	IU	LDO 0734 OFF	08.016	4859MODE CODE 2	IND
	IU	LDO 0734 ON	08.024	4859MODE CODE 2	IND
	IU	LDO 0889 OFF	08.092	4674RAMP	IND

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	IU	LDO 0734 OFF 08.300 4859MODE CODE 2 IND
	IU	LDO 0734 ON 08.336 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 08.420 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 08.636 2596TCS PULSE OK
S1B		MDI 2187 ON 09.008 2596TCS PULSE OK
	IU	LDO 0734 ON 09.244 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 09.284 4859MODE CODE 2 IND
	IU	LDO 0734 ON 09.468 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 09.480 4859MODE CODE 2 IND
	IU	LDO 0734 ON 09.532 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 09.636 2596TCS PULSE OK
	IU	LDO 0734 OFF 09.708 4859MODE CODE 2 IND
	IU	LDO 0734 ON 09.712 4859MODE CODE 2 IND
S1B		MDI 2187 ON 10.108 2596TCS PULSE OK
	IU	LDO 0734 OFF 10.116 4859MODE CODE 2 IND
	IU	LDO 0734 ON 10.020 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 10.108 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 10.636 2596TCS PULSE OK
S1B		DDA 0023 OFF 10.636 5201VK0353-340
	IU	LDO 0734 ON 10.928 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 10.968 4859MODE CODE 2 IND
S1B		MDI 2187 ON 11.008 2596TCS PULSE OK
	IU	LDO 0734 ON 11.148 4859MODE CODE 2 IND
	IU	MDI 0635 ON 11.180 3335EDSRG ZERO TORQUE COMM
	IU	LDO 0734 OFF 11.188 4859MODE CODE 2 IND
	IU	LDO 0734 ON 11.228 4859MODE CODE 2 IND
S1B		DDA 2126 ON 11.356 4120VR0028-602
	IU	LDO 0734 OFF 11.380 4859MODE CODE 2 IND
	IU	LDO 0734 ON 11.388 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 11.636 2596TCS PULSE OK
	IU	LDO 0734 OFF 11.696 4859MODE CODE 2 IND
	IU	LDO 0734 ON 11.732 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 11.788 4859MODE CODE 2 IND
S1B		MDI 2187 ON 12.008 2596TCS PULSE OK
	IU	MDI 2236 ON 12.216 2605RAMP NO 1 ZERO
	IU	MDI 2238 ON 12.216 2607RAMP NO 3 ZERO
	IU	MDI 2237 ON 12.220 2606RAMP NO 2 ZERO
	IU	MDI 0635 OFF 12.220 3335EDSRG ZERO TORQUE COMM
S1B		DDA 2125 ON 12.440 4119VR0029-602
	IU	LDO 0734 ON 12.524 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 12.636 2596TCS PULSE OK
	IU	LDO 0734 OFF 12.664 4859MODE CODE 2 IND
	IU	LDO 0734 ON 12.836 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 12.848 4859MODE CODE 2 IND
	IU	LDO 0734 ON 12.900 4859MODE CODE 2 IND
	IU	MDO 1904 OFF 12.976 1601EDS RG ROLL AXIS SEL ON

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	IU	MDI 0632 OFF 12.976 3332EDSRG ROLL AXIS SELECT
S1B		MDI 2187 ON 13.008 2596TCS PULSE OK
	IU	LDO 0632 OFF 13.036 4399EDSRG ROLL AXIS SELECT
	IU	LDO 0734 OFF 13.080 4859MODE CODE 2 IND
	IU	LDO 0734 ON 13.116 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 13.384 4859MODE CODE 2 IND
	IU	LDO 0734 ON 13.388 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 13.472 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 13.636 2596TCS PULSE OK
S1B		MDI 2187 ON 14.008 2596TCS PULSE OK
	IU	LDO 0734 ON 14.308 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 14.360 4859MODE CODE 2 IND
	IU	LDO 0734 ON 14.528 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 14.540 4859MODE CODE 2 IND
	IU	LDO 0734 ON 14.588 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 14.636 2596TCS PULSE OK
	IU	LDO 0734 OFF 14.796 4859MODE CODE 2 IND
	IU	LDO 0734 ON 14.800 4859MODE CODE 2 IND
S1B		MDI 2187 ON 15.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 15.088 4859MODE CODE 2 IND
	IU	LDO 0734 ON 15.096 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 15.164 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 15.636 2596TCS PULSE OK
	IU	LDO 0734 ON 15.992 4859MODE CODE 2 IND
S1B		MDI 2187 ON 16.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 16.032 4859MODE CODE 2 IND
	IU	LDO 0734 ON 16.208 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 16.224 4859MODE CODE 2 IND
	IU	LDO 0734 ON 16.276 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 16.484 4859MODE CODE 2 IND
	IU	LDO 0734 ON 16.492 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 16.636 2596TCS PULSE OK
	IU	LDO 0734 OFF 16.736 4859MODE CODE 2 IND
	IU	LDO 0734 ON 16.772 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 16.848 4859MODE CODE 2 IND
S1B		MDI 2187 ON 17.008 2596TCS PULSE OK
S1B		MDI 2187 OFF 17.636 2596TCS PULSE OK
	IU	LDO 0734 ON 17.684 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 17.728 4859MODE CODE 2 IND
	IU	LDO 0734 ON 17.900 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 17.912 4859MODE CODE 2 IND
	IU	LDO 0734 ON 17.996 4859MODE CODE 2 IND
S1B		MDI 2187 ON 18.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 18.168 4859MODE CODE 2 IND
	IU	LDO 0734 ON 18.176 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 18.448 4859MODE CODE 2 IND

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TEST SIM FLT MAL OAT RUN /3 11

	IU	LDO 0734 ON	18.456	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	18.536	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	18.636	2596TCS PULSE	OK
S1B		MDI 2187 ON	19.008	2596TCS PULSE	OK
	IU	LDO 0734 ON	19.364	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	19.408	4859MODE CODE 2	IND
	IU	LDO 0734 ON	19.628	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	19.636	2596TCS PULSE	OK
	IU	LDO 0734 OFF	19.640	4859MODE CODE 2	IND
	IU	LDO 0734 ON	19.720	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	19.864	4859MODE CODE 2	IND
	IU	LDO 0734 ON	19.872	4859MODE CODE 2	IND
S1B		MDI 2187 ON	20.008	2596TCS PULSE	OK
	IU	LDO 0734 OFF	20.140	4859MODE CODE 2	IND
	IU	LDO 0734 ON	20.148	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	20.228	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	20.636	2596TCS PULSE	OK
S1B		MDI 2187 ON	21.008	2596TCS PULSE	OK
	IU	LDO 0734 ON	21.068	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	21.116	4859MODE CODE 2	IND
	IU	LDO 0734 ON	21.316	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	21.328	4859MODE CODE 2	IND
	IU	LDO 0734 ON	21.384	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	21.552	4859MODE CODE 2	IND
	IU	LDO 0734 ON	21.560	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	21.636	2596TCS PULSE	OK
	IU	LDO 0734 OFF	21.832	4859MODE CODE 2	IND
	IU	LDO 0734 ON	21.840	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	21.920	4859MODE CODE 2	IND
S1B		MDI 2187 ON	22.008	2596TCS PULSE	OK
S1B		MDI 2187 OFF	22.636	2596TCS PULSE	OK
	IU	LDO 0734 ON	22.780	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	22.824	4859MODE CODE 2	IND
	IU	LDO 0734 ON	23.000	4859MODE CODE 2	IND
S1B		MDI 2187 ON	23.008	2596TCS PULSE	OK
	IU	LDO 0734 OFF	23.012	4859MODE CODE 2	IND
	IU	LDO 0734 ON	23.092	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	23.236	4859MODE CODE 2	IND
	IU	LDO 0734 ON	23.240	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	23.512	4859MODE CODE 2	IND
	IU	LDO 0734 ON	23.520	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	23.636	2596TCS PULSE	OK
	IU	LDO 0734 OFF	23.640	4859MODE CODE 2	IND
S1B		MDI 2187 ON	24.008	2596TCS PULSE	OK
	IU	LDO 0734 ON	24.464	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	24.508	4859MODE CODE 2	IND

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TEST SIM FLT MAL OAT RUN /3 11

S1B		MDI 2187 OFF 24.636 2596TCS PULSE OK
	IU	LDO 0734 ON 24.676 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 24.720 4859MODE CODE 2 IND
	IU	LDO 0734 ON 24.760 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 24.920 4859MODE CODE 2 IND
	IU	LDO 0734 ON 24.928 4859MODE CODE 2 IND
S1B		MDI 2187 ON 25.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 25.236 4859MODE CODE 2 IND
	IU	LDO 0734 ON 25.244 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 25.328 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 25.636 2596TCS PULSE OK
S1B		MDI 2187 ON 26.008 2596TCS PULSE OK
	IU	LDO 0734 ON 26.156 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 26.200 4859MODE CODE 2 IND
	IU	LDO 0734 ON 26.380 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 26.392 4859MODE CODE 2 IND
	IU	LDO 0734 ON 26.444 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 26.612 4859MODE CODE 2 IND
	IU	LDO 0734 ON 26.616 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 26.636 2596TCS PULSE OK
	IU	LDO 0734 OFF 26.924 4859MODE CODE 2 IND
	IU	LDO 0734 ON 26.932 4859MODE CODE 2 IND
S1B		MDI 2187 ON 27.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 27.016 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 27.636 2596TCS PULSE OK
	IU	LDO 0734 ON 27.848 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 27.888 4859MODE CODE 2 IND
S1B		MDI 2187 ON 28.008 2596TCS PULSE OK
	IU	LDO 0734 ON 28.064 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 28.112 4859MODE CODE 2 IND
	IU	LDO 0734 ON 28.144 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 28.300 4859MODE CODE 2 IND
	IU	LDO 0734 ON 28.308 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 28.620 4859MODE CODE 2 IND
	IU	LDO 0734 ON 28.628 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 28.636 2596TCS PULSE OK
	IU	LDO 0734 OFF 28.720 4859MODE CODE 2 IND
S1B		MDI 2187 ON 29.008 2596TCS PULSE OK
	IU	LDO 0734 ON 29.340 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 29.580 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 29.636 2596TCS PULSE OK
	IU	LDO 0734 ON 29.756 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 29.768 4859MODE CODE 2 IND
	IU	LDO 0734 ON 29.820 4859MODE CODE 2 IND
S1B		MDI 2187 ON 30.008 2596TCS PULSE OK
	IU	LDO 0734 OFF 30.028 4859MODE CODE 2 IND

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TEST SIM FLT MAL OAT RUN /3 11

	IU	LDO 0734 0	30.132	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	30.300	4859MODE CODE 2	IND
	IU	LDO 0734 0	30.310	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	30.396	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	30.636	2596TCS PULSE	OK
S1B		MDI 2187 0	31.004	2596TCS PULSE	OK
	IU	LDO 0734 0	31.220	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	31.264	4859MODE CODE 2	IND
	IU	LDO 0734 0	31.436	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	31.480	4859MODE CODE 2	IND
	IU	LDO 0734 0	31.516	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	31.636	2596TCS PULSE	OK
	IU	LDO 0734 OFF	31.720	4859MODE CODE 2	IND
	IU	LDO 0734 0	31.728	4859MODE CODE 2	IND
S1B		MDI 2187 0	32.004	2596TCS PULSE	OK
	IU	LDO 0734 OFF	32.004	4859MODE CODE 2	IND
	IU	LDO 0734 0	32.012	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	32.020	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	32.636	2596TCS PULSE	OK
	IU	LDO 0734 0	32.916	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	32.960	4859MODE CODE 2	IND
S1B		MDI 2187 0	33.004	2596TCS PULSE	OK
	IU	LDO 0734 0	33.156	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	33.168	4859MODE CODE 2	IND
	IU	LDO 0734 0	33.204	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	33.408	4859MODE CODE 2	IND
	IU	LDO 0734 0	33.416	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	33.636	2596TCS PULSE	OK
	IU	LDO 0734 OFF	33.688	4859MODE CODE 2	IND
	IU	LDO 0734 0	33.696	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	33.788	4859MODE CODE 2	IND
S1B		MDI 2187 0	34.004	2596TCS PULSE	OK
	IU	LDO 0734 0	34.604	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	34.636	2596TCS PULSE	OK
	IU	LDO 0734 OFF	34.648	4859MODE CODE 2	IND
	IU	LDO 0734 0	34.816	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	34.856	4859MODE CODE 2	IND
	IU	LDO 0734 0	34.916	4859MODE CODE 2	IND
S1B		MDI 2187 0	35.004	2596TCS PULSE	OK
	IU	LDO 0734 OFF	35.092	4859MODE CODE 2	IND
	IU	LDO 0734 0	35.100	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	35.360	4859MODE CODE 2	IND
	IU	LDO 0734 0	35.368	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	35.452	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	35.636	2596TCS PULSE	OK
S1B		MDI 2187 0	36.004	2596TCS PULSE	OK

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TEST SIM FLT MAL OAT RUN /3 11

	IU	LDO 0734 ON	36.276	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	36.316	4859MODE CODE 2 IND
	IU	LDO 0734 ON	36.532	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	36.544	4859MODE CODE 2 IND
	IU	LDO 0734 ON	36.604	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	36.636	2596TCS PULSE OK
	IU	LDO 0734 OFF	36.772	4859MODE CODE 2 IND
	IU	LDO 0734 ON	36.780	4859MODE CODE 2 IND
	IU	MDO 1906 ON	36.968	1603EDS RG PITCH AXIS SEL ON
	IU	MDI 0631 ON	36.972	3331EDSRG PITCH AXIS SELECT
S1B		MDI 2187 ON	37.004	2596TCS PULSE OK
	IU	LDO 0631 ON	37.024	4398EDSRG PITCH AXIS SELECT
	IU	LDO 0734 OFF	37.064	4859MODE CODE 2 IND
	IU	LDO 0734 ON	37.072	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	37.136	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	37.636	2596TCS PULSE OK
	IU	LDO 0734 ON	37.936	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	37.980	4859MODE CODE 2 IND
S1B		MDI 2187 ON	38.004	2596TCS PULSE OK
	IU	LDO 0734 ON	38.196	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	38.212	4859MODE CODE 2 IND
	IU	LDO 0734 ON	38.264	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	38.436	4859MODE CODE 2 IND
	IU	LDO 0734 ON	38.444	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	38.636	2596TCS PULSE OK
	IU	LDO 0734 OFF	38.716	4859MODE CODE 2 IND
	IU	LDO 0734 ON	38.724	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	38.796	4859MODE CODE 2 IND
S1B		MDI 2187 ON	39.004	2596TCS PULSE OK
	IU	LDO 0734 ON	39.628	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	39.636	2596TCS PULSE OK
	IU	LDO 0734 OFF	39.672	4859MODE CODE 2 IND
	IU	LDO 0734 ON	39.888	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	39.900	4859MODE CODE 2 IND
	IU	LDO 0734 ON	39.948	4859MODE CODE 2 IND
	IU	MDO 0695 ON	39.996	2027RAMP NEG
	IU	MDI 0889 ON	40.000	3577RAMP IND
S1B		MDI 2187 ON	40.004	2596TCS PULSE OK
	IU	MDI 2236 OFF	40.016	2605RAMP NO 1 ZERO
	IU	MDI 2237 OFF	40.016	2606RAMP NO 2 ZERO
	IU	MDI 2238 OFF	40.016	2607RAMP NO 3 ZERO
	IU	LDO 0889 ON	40.068	4674RAMP IND
	IU	LDO 0734 OFF	40.128	4859MODE CODE 2 IND
	IU	LDO 0734 ON	40.136	4859MODE CODE 2 IND
S1B		DDA 2124 OFF	40.352	4118VR0030-602
	IU	LDO 0734 OFF	40.396	4859MODE CODE 2 IND

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TEST SIM FLT MAL OAT RUN /3 II

	IU	LDO 0734 ON	40.404	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	40.488	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	40.636	2596TCS PULSE OK
S1B		MDI 2187 ON	41.004	2596TCS PULSE OK
	IU	LDO 0734 ON	41.348	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	41.348	4859MODE CODE 2 IND
	IU	LDO 0734 ON	41.576	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	41.576	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	41.636	2596TCS PULSE OK
	IU	LDO 0734 ON	41.652	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	41.804	4859MODE CODE 2 IND
	IU	LDO 0734 ON	41.812	4859MODE CODE 2 IND
S1B		MDI 2187 ON	42.004	2596TCS PULSE OK
	IU	LDO 0734 OFF	42.088	4859MODE CODE 2 IND
	IU	LDO 0734 ON	42.096	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	42.204	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	42.636	2596TCS PULSE OK
S1B		MDI 2187 ON	43.004	2596TCS PULSE OK
	IU	LDO 0734 ON	43.040	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	43.116	4859MODE CODE 2 IND
	IU	LDO 0734 ON	43.260	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	43.272	4859MODE CODE 2 IND
	IU	LDO 0734 ON	43.324	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	43.496	4859MODE CODE 2 IND
	IU	LDO 0734 ON	43.504	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	43.636	2596TCS PULSE OK
	IU	LDO 0734 OFF	43.812	4859MODE CODE 2 IND
	IU	LDO 0734 ON	43.816	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	43.912	4859MODE CODE 2 IND
S1B		MDI 2187 ON	44.004	2596TCS PULSE OK
S1B		MDI 2187 OFF	44.632	2596TCS PULSE OK
	IU	LDO 0734 ON	44.736	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	44.776	4859MODE CODE 2 IND
	IU	LDO 0734 ON	44.948	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	44.960	4859MODE CODE 2 IND
S1B		MDI 2187 ON	45.004	2596TCS PULSE OK
	IU	LDO 0734 ON	45.032	4859MODE CODE 2 IND
	IU	MDO 0695 OFF	45.060	2027RAMP NEG
	IU	MDI 0889 OFF	45.068	3577RAMP IND
	IU	LDO 0889 OFF	45.124	4674RAMP IND
	IU	LDO 0734 OFF	45.184	4859MODE CODE 2 IND
	IU	LDO 0734 ON	45.192	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	45.504	4859MODE CODE 2 IND
	IU	LDO 0734 ON	45.508	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	45.592	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	45.632	2596TCS PULSE OK

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TEST SIM FLT MAL OAT RUN /3 11

S1B		MDI 2187 ON	46.004	2596TCS PULSE OK
	IU	LDO 0734 ON	46.424	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	46.464	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	46.632	2596TCS PULSE OK
	IU	LDO 0734 ON	46.644	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	46.656	4859MODE CODE 2 IND
	IU	LDO 0734 ON	46.728	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	46.880	4859MODE CODE 2 IND
	IU	LDO 0734 ON	46.888	4859MODE CODE 2 IND
S1B		MDI 2187 ON	47.004	2596TCS PULSE OK
	IU	LDO 0734 OFF	47.196	4859MODE CODE 2 IND
	IU	LDO 0734 ON	47.200	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	47.284	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	47.632	2596TCS PULSE OK
S1B		MDI 2187 ON	48.004	2596TCS PULSE OK
	IU	LDO 0734 ON	48.120	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	48.160	4859MODE CODE 2 IND
	IU	LDO 0734 ON	48.336	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	48.348	4859MODE CODE 2 IND
	IU	LDO 0734 ON	48.400	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	48.608	4859MODE CODE 2 IND
	IU	LDO 0734 ON	48.612	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	48.632	2596TCS PULSE OK
	IU	LDO 0734 OFF	48.880	4859MODE CODE 2 IND
	IU	LDO 0734 ON	48.884	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	48.968	4859MODE CODE 2 IND
S1B		MDI 2187 ON	49.004	2596TCS PULSE OK
S1B		MDI 2187 OFF	49.632	2596TCS PULSE OK
	IU	LDO 0734 ON	49.800	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	49.840	4859MODE CODE 2 IND
S1B		MDI 2187 ON	50.004	2596TCS PULSE OK
	IU	LDO 0734 ON	50.024	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	50.036	4859MODE CODE 2 IND
	IU	LDO 0734 ON	50.104	4859MODE CODE 2 IND
S1B		MDI 2306 ON	50.116	3766IU STAGE SEL
	IU	MDI 0817 OFF	50.120	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	50.120	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0823 OFF	50.120	3523REG CONT BIT 8 VERIFY IN
	IU	MDI 0782 OFF	50.124	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	50.124	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 OFF	50.124	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	50.124	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2087 ON	50.124	5166VXK00008-603
S1B		DDA 2093 ON	50.124	5166VXK00008-603
S1B		DDA 2094 ON	50.124	5167VXK00008-603
S1B		DDA 2098 ON	50.124	5171VXK00008-603

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TEST SIM FLT MAL CAT RUN /3 11

S1B		DDA 2099 ON	50.124	5172VXK0008-603
S1B		DDA 2100 ON	50.124	5173VXK0008-603
	IU	LDI 1090 ON	50.128	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	50.128	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	50.128	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	50.128	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	50.128	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	50.128	0512BIT NO 8 VERIFY
	IU	LDI 1098 ON	50.128	0513IU STAGE SELECTOR
S1B		DDA 2086 OFF	50.128	5162VXK0003-603
S1B	IU	MDI 2306 OFF	50.160	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	50.160	3767RESET COMMAND
S1B S4B	IU	-3- 060 RESET	50.160	
	IU	LDI 1103 ON	50.168	0517RESET COMMAND
	IU	MDI 0782 ON	50.168	3482SW SEL ZERO IND
	IU	MDI 0816 ON	50.168	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	50.168	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	50.168	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	50.168	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	50.168	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	50.168	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	50.168	5160VXK0007-603
S1B		DDA 2086 ON	50.168	5162VXK0003-603
S1B		DDA 2087 OFF	50.168	5163VXK0005-603
S1B		DDA 2099 OFF	50.168	5172VXK0008-603
	IU	LDI 1090 OFF	50.172	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	50.172	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	50.172	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	50.172	0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF	50.172	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	50.172	0512BIT NO 8 VERIFY
	IU	LDI 1098 OFF	50.172	0513IU STAGE SELECTOR
S1B		DDA 2093 OFF	50.172	5166VXK0008-603
S1B		DDA 2094 OFF	50.172	5167VXK0008-603
S1B		DDA 2098 OFF	50.172	5171VXK0008-603
S1B		DDA 2100 OFF	50.172	5173VXK0008-603
S1B	IU	MDI 2306 ON	50.176	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	50.176	3767RESET COMMAND
	IU	LDI 1098 ON	50.184	0513IU STAGE SELECTOR
S1B		DDA 2087 OFF	50.184	5163VXK0005-603
	IU	LDI 1103 OFF	50.188	0517RESET COMMAND
	IU	MDI 0782 OFF	50.188	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	50.188	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	50.188	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	50.188	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2084 OFF	50.188	5160VXK0007-603

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	IU	LDI 1091 ON	50.192	0506BIT NO 2 VERIFY
S1B		DDA 2098 OFF	50.192	5162VXK0003-603
S1B		DDA 2095 ON	50.192	5168VXK0008-603
S1B		DDA 2098 OFF	50.192	5169VXK0008-603
S1B		DDA 2099 ON	50.192	5172VXK0008-603
	IU	LDI 1094 OFF	50.196	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	50.196	0510BIT NO 6 VERIFY
S1B	IU	MDI 2308 OFF	50.256	3768READ COMMAND
S1B S4B	IU	-3- 315 READ	50.256	
	IU	MDI 0763 ON	50.260	3463SWITCH POINT 5 ON IND
S1B		DDA 2149 ON	50.264	4134VK0004-603
	IU	LDI 0983 ON	50.268	0463SW SEL READ
	IU	LDI 1102 ON	50.268	0516SW SEL READ
S1B		DDA 2085 ON	50.268	5161VXK0006-603
S1B	IU	MDI 2306 OFF	50.288	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	50.288	3768READ COMMAND
	IU	LDI 0983 OFF	50.304	0463SW SEL READ
	IU	LDI 1098 OFF	50.304	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	50.304	0516SW SEL READ
	IU	MDI 0782 ON	50.304	3482SW SEL ZERO IND
	IU	MDI 0817 ON	50.304	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	50.304	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	50.304	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2085 OFF	50.304	5161VXK0006-603
S1B		DDA 2087 OFF	50.304	5163VXK0005-603
	IU	LDI 1091 OFF	50.312	0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF	50.312	4134VK0004-603
	IU	LDO 0734 OFF	50.312	4859MODE CODE 2 IND
S1B		DDA 2086 ON	50.312	5162VXK0003-603
S1B		DDA 2098 OFF	50.312	5169VXK0008-603
S1B		DDA 2099 OFF	50.312	5172VXK0008-603
	IU	LDI 1094 OFF	50.316	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	50.316	0510BIT NO 6 VERIFY
S1B		DDA 2095 OFF	50.316	5168VXK0008-603
	IU	LDO 0763 ON	50.320	4887SWITCH POINT 5 ON IND
	IU	LDO 0734 ON	50.400	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	50.412	4859MODE CODE 2 IND
	IU	LDO 0734 ON	50.448	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	50.632	2596TCS PULSE OK
	IU	LDO 0734 OFF	50.688	4859MODE CODE 2 IND
	IU	LDO 0734 ON	50.728	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	50.796	4859MODE CODE 2 IND
S1B		MDI 2187 ON	51.004	2596TCS PULSE OK
	IU	LDO 0734 ON	51.604	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	51.632	2596TCS PULSE OK
	IU	LDO 0734 OFF	51.644	4859MODE CODE 2 IND

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S1B	IU	MDI 2306 ON	51.808	3766IU STAGE SEL
	IU	MDI 0817 OFF	51.812	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	51.812	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	51.812	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1098 ON	51.816	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	51.816	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	51.816	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF	51.816	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	51.816	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	51.816	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	51.816	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	51.816	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	51.816	5162VXK0003-603
S1B		DDA 2087 ON	51.816	5163VXK0005-603
S1B		DDA 2093 ON	51.816	5166VXK0008-603
S1B		DDA 2094 ON	51.816	5167VXK0008-603
S1B		DDA 2096 ON	51.816	5169VXK0008-603
S1B		DDA 2098 ON	51.816	5171VXK0008-603
S1B		DDA 2099 ON	51.816	5172VXK0008-603
S1B		DDA 2100 ON	51.816	5173VXK0008-603
	IU	LDI 1090 ON	51.820	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	51.820	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	51.820	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	51.820	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	51.820	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	51.820	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	51.820	0512BIT NO 8 VERIFY
S1B	IU	MDI 2306 OFF	51.840	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	51.840	3767RESET COMMAND
S1B S4B	IU	-3- 040 RESET	51.840	
S1B		DDA 2084 ON	51.840	5160VXK0007-603
	IU	LDI 1103 ON	51.844	0517RESET COMMAND
	IU	MDI 0816 ON	51.844	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	51.844	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	51.844	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0782 ON	51.848	3482SW SEL ZERO IND
	IU	MDI 0819 ON	51.848	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	51.848	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	51.848	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	51.848	3523REG CONT BIT 8 VERIFY IN
	IU	LDO 0734 ON	51.848	4859MODE CODE 2 IND
	IU	LDI 1091 OFF	51.852	0506BIT NO 2 VERIFY
	IU	LDI 1098 OFF	51.852	0513IU STAGE SELECTOR
S1B	IU	MDI 2306 ON	51.852	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	51.852	3767RESET COMMAND
S1B		DDA 2086 ON	51.852	5162VXK0003-603

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S1B		DDA 2087 OFF 51.852 5163VXK0005-603
S1B		DDA 2098 OFF 51.852 5171VXK0008-603
S1B		DDA 2099 OFF 51.852 5172VXK0008-603
	IU	LDI 1090 OFF 51.856 0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF 51.856 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 51.856 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 51.856 0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF 51.856 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 51.856 0512BIT NO 8 VERIFY
S1B		DDA 2087 ON 51.856 5163VXK0005-603
S1B		DDA 2093 OFF 51.856 5166VXK0008-603
S1B		DDA 2094 OFF 51.856 5167VXK0008-603
S1B		DDA 2096 OFF 51.856 5169VXK0008-603
S1B		DDA 2100 OFF 51.856 5173VXK0008-603
	IU	LDI 1098 ON 51.860 0513IU STAGE SELECTOR
	IU	LDI 1103 OFF 51.864 0517RESET COMMAND
	IU	MDI 0816 OFF 51.864 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 51.864 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 51.864 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 51.864 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 51.864 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF 51.864 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 51.864 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF 51.864 5160VXK0007-603
	IU	LDI 1090 ON 51.868 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 51.868 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 51.868 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 51.868 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 51.868 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 51.868 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 51.868 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 51.868 0512BIT NO 8 VERIFY
	IU	MDI 0782 OFF 51.868 3482SW SEL ZERO IND
	IU	MDI 0816 ON 51.868 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON 51.868 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 51.868 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 51.868 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 51.868 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 51.868 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 51.868 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF 51.868 5162VXK0003-603
S1B		DDA 2093 ON 51.868 5166VXK0008-603
S1B		DDA 2094 ON 51.868 5167VXK0008-603
S1B		DDA 2095 ON 51.868 5168VXK0008-603
S1B		DDA 2096 ON 51.868 5169VXK0008-603
S1B		DDA 2098 ON 51.868 5171VXK0008-603

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S1B		DDA 2099 ON	51.868	5172VXK0008-603
S1B		DDA 2100 ON	51.868	5173VXK0008-603
	IU	LDI 1090 OFF	51.880	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	51.880	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	51.880	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	51.880	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	51.880	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	51.880	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	51.880	5166VXK0008-603
S1B		DDA 2094 OFF	51.880	5167VXK0008-603
S1B		DDA 2096 OFF	51.880	5169VXK0008-603
S1B		DDA 2098 OFF	51.880	5171VXK0008-603
S1B		DDA 2100 OFF	51.880	5173VXK0008-603
	IU	LDI 0734 OFF	51.880	4859MODE CODE 2 IND
S1B	IU	MDI 2308 ON	51.968	3768READ COMMAND
S1B S4B	IU	-3- 335 READ	51.968	
S1B		DDA 2149 ON	51.972	4134VK0004-603
	IU	LDI 0983 ON	51.976	0463SW SEL READ
	IU	LDI 1102 ON	51.976	0516SW SEL READ
S1B		DDA 2085 ON	51.976	5161VXK0006-603
	IU	LDO 0734 ON	51.992	4859MODE CODE 2 IND
S1B		MDI 2187 ON	52.004	2596TCS PULSE OK
S1B	IU	MDI 2306 OFF	52.008	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	52.008	3768READ COMMAND
	IU	LDI 0983 OFF	52.020	0463SW SEL READ
	IU	LDI 1098 OFF	52.020	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	52.020	0516SW SEL READ
S1B		DDA 2086 OFF	52.020	5162VXK0003-603
S1B		DDA 2087 OFF	52.020	5163VXK0005-603
	IU	MDI 0782 ON	52.024	3482SW SEL ZERO IND
	IU	MDI 0817 ON	52.024	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 ON	52.024	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1091 OFF	52.028	0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF	52.028	4134VK0004-603
S1B		DDA 2086 ON	52.028	5162VXK0003-603
S1B		DDA 2099 OFF	52.028	5172VXK0008-603
	IU	LDI 1095 OFF	52.032	0510BIT NO 6 VERIFY
	IU	LDO 0734 OFF	52.032	4859MODE CODE 2 IND
S1B		DDA 2095 OFF	52.032	5168VXK0008-603
	IU	LDO 0734 ON	52.112	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	52.200	4859MODE CODE 2 IND
	IU	LDO 0734 ON	52.232	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	52.484	4859MODE CODE 2 IND
	IU	LDO 0734 ON	52.492	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	52.596	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	52.632	2596TCS PULSE OK

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S17		MDI 2187 ON 53.004 2596TCS PULSE OK
	IU	LDO 0734 ON 53.404 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 53.476 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 53.632 2596TCS PULSE OK
	IU	LDO 0734 ON 53.676 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 53.688 4859MODE CODE 2 IND
	IU	LDO 0734 ON 53.756 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 53.900 4859MODE CODE 2 IND
	IU	LDO 0734 ON 53.908 4859MODE CODE 2 IND
S1B		MDI 2187 ON 54.004 2596TCS PULSE OK
	IU	LDO 0734 OFF 54.180 4859MODE CODE 2 IND
	IU	LDO 0734 ON 54.184 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 54.312 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 54.632 2596TCS PULSE OK
	IU	MDI 0635 ON 54.968 3335EDSRG ZERO TORQUE COMM
S1B		MDI 2187 ON 55.004 2596TCS PULSE OK
	IU	LDO 0734 ON 55.140 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 55.184 4859MODE CODE 2 IND
	IU	LDO 0734 ON 55.368 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 55.444 4859MODE CODE 2 IND
	IU	LDO 0734 ON 55.444 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 55.592 4859MODE CODE 2 IND
	IU	LDO 0734 ON 55.600 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 55.632 2596TCS PULSE OK
	IU	LDO 0734 OFF 55.876 4859MODE CODE 2 IND
	IU	LDO 0734 ON 55.912 4859MODE CODE 2 IND
S1B		MDI 2187 ON 56.004 2596TCS PULSE OK
	IU	LDO 0734 OFF 56.008 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 56.632 2596TCS PULSE OK
S1B	IU	MDI 2306 ON 56.808 3766IU STAGE SEL
	IU	LDI 1091 ON 56.816 0506BIT NO 2 VERIFY
	IU	LDI 1098 ON 56.816 0513IU STAGE SELECTOR
	IU	MDI 0782 OFF 56.816 3482SN SEL ZERO IND
	IU	MDI 0816 OFF 56.816 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 56.816 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 56.816 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 56.816 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF 56.816 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 56.816 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 56.816 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF 56.816 5162VXK0003-603
S1B		DDA 2087 ON 56.816 5163VXK0003-603
S1B		DDA 2095 ON 56.816 5168VXK0008-603
S1B		DDA 2099 ON 56.816 5172VXK0008-603
	IU	LDI 1095 ON 56.820 0510BIT NO 6 VERIFY
	IU	LDO 0734 ON 56.820 4859MODE CODE 2 IND

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	IU	LDI 1090 ON	56.824	0505BIT NO 1 VERIFY
	IU	LDI 1096 ON	56.824	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	56.824	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	56.824	5166VXK0008-603
S1B		DDA 2094 ON	56.824	5167VXK0008-603
S1B		DDA 2098 ON	56.824	5171VXK0008-603
S1B		DDA 2100 ON	56.824	5173VXK0008-603
	IU	LDI 1092 ON	56.828	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	56.828	0508BIT NO 4 VERIFY
S1B	IU	MDI 2306 OFF	56.848	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	56.848	3767RESET COMMAND
S1B S4B	IU	-3- 020 RESET	56.848	
S1B		DDA 2084 ON	56.848	5160VXK0007-603
	IU	LDI 1103 ON	56.852	0517RESET COMMAND
	IU	MDI 0816 ON	56.852	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	56.852	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	56.852	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0782 ON	56.856	3482SW SEL ZERO IND
	IU	MDI 0819 ON	56.856	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	56.856	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	56.856	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	56.856	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF	56.860	0506BIT NO 2 VERIFY
	IU	LDI 1098 OFF	56.860	0513IU STAGE SELECTOR
	IU	LDO 0734 OFF	56.860	4859MODE CODE 2 IND
S1B		DDA 2086 ON	56.860	5162VXK0003-603
S1B		DDA 2087 OFF	56.860	5163VXK0005-603
S1B		DDA 2093 OFF	56.860	5166VXK0008-603
S1B		DDA 2098 OFF	56.860	5171VXK0008-603
S1B		DDA 2099 OFF	56.860	5172VXK0008-603
	IU	LDI 1090 OFF	56.864	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	56.864	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	56.864	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	56.864	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	56.864	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	56.864	0512BIT NO 8 VERIFY
S1B	IU	MDI 2306 ON	56.864	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	56.864	3767RESET COMMAND
S1B		DDA 2087 ON	56.864	5163VXK0005-603
S1B		DDA 2094 OFF	56.864	5167VXK0008-603
S1B		DDA 2095 OFF	56.864	5168VXK0008-603
S1B		DDA 2100 OFF	56.864	5173VXK0008-603
	IU	LDI 1098 ON	56.868	0513IU STAGE SELECTOR
S1B		DDA 2084 OFF	56.868	5160VXK0007-603
	IU	LDI 1103 OFF	56.872	0517RESET COMMAND
	IU	MDI 0816 OFF	56.872	3516REG CONT BIT 1 VERIFY IN

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	IU	MDI 0817 OFF	56.872	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	56.872	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	56.872	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	56.872	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	56.872	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	56.872	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON	56.876	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	56.876	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	56.876	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	56.876	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	56.876	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	56.876	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	56.876	0512BIT NO 8 VERIFY
	IU	MDI 0782 OFF	56.876	3482SW SEL ZERO IND
	IU	MDI 0816 ON	56.876	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	56.876	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	56.876	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	56.876	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	56.876	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	56.876	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	56.876	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	56.876	5162VXK0003-603
S1B		DDA 2093 ON	56.876	5166VXK0008-603
S1B		DDA 2094 ON	56.876	5167VXK0008-603
S1B		DDA 2095 ON	56.876	5168VXK0008-603
S1B		DDA 2098 ON	56.876	5171VXK0008-603
S1B		DDA 2099 ON	56.876	5172VXK0008-603
S1B		DDA 2100 ON	56.876	5173VXK0008-603
	IU	LDI 1094 ON	56.884	0509BIT NO 5 VERIFY
S1B		DDA 2096 ON	56.884	5169VXK0008-603
	IU	LDI 1090 OFF	56.888	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	56.888	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	56.888	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	56.888	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	56.888	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	56.888	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	56.888	5166VXK0008-603
S1B		DDA 2094 OFF	56.888	5167VXK0008-603
S1B		DDA 2095 OFF	56.888	5168VXK0008-603
S1B		DDA 2098 OFF	56.888	5171VXK0008-603
S1B		DDA 2100 OFF	56.888	5173VXK0008-603
S1B	IU	MDI 2308 ON	56.960	3768READ COMMAND
S1B S4B	IU	-3- 355 READ	56.960	
S1B		DDA 2149 ON	56.964	4134VK0004-603
	IU	LDI 0983 ON	56.968	0463SW SEL READ
	IU	LDI 1102 ON	56.968	0516SW SEL READ

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S1B		DDA 2085 ON 56.968 5161VXK0006-603
S1B	IU	MDI 2306 OFF 56.988 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 56.988 3768READ COMMAND
S1B		DDA 2085 OFF 57.000 5161VXK0006-603
S1B		DDA 2087 OFF 57.000 5163VXK0005-603
	IU	LDI 0983 OFF 57.004 0463SW SEL READ
	IU	LDI 1098 OFF 57.004 0513IU STAGE SELECTOR
	IU	LDI 1107 OFF 57.004 0515SW SEL READ
S1B		MDI 2187 ON 57.004 2596TCS PULSE OK
	IU	MDI 0782 ON 57.004 3482SW SEL ZERO IND
	IU	MDI 0817 ON 57.004 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON 57.004 3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2149 OFF 57.008 4134VK0004-603
S1B		DDA 2099 OFF 57.008 5172VXK0008-603
	IU	LDI 1091 OFF 57.012 0506BIT NO 2 VERIFY
S1B		DDA 2096 OFF 57.012 5169VXK0008-603
	IU	LDI 1094 OFF 57.016 0509BIT NO 5 VERIFY
	IU	LDO 0734 ON 57.144 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 57.160 4859MODE CODE 2 IND
	IU	LDO 0734 ON 57.208 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 57.380 4859MODE CODE 2 IND
	IU	LDO 0734 ON 57.388 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 57.632 2596TCS PULSE OK
	IU	LDO 0734 OFF 57.716 4859MODE CODE 2 IND
	IU	LDO 0734 ON 57.724 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 57.788 4859MODE CODE 2 IND
S1B		MDI 2187 ON 58.004 2596TCS PULSE OK
	IU	LDO 0734 ON 58.616 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 58.632 2596TCS PULSE OK
	IU	LDO 0734 OFF 58.660 4859MODE CODE 2 IND
	IU	LDO 0734 ON 58.844 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 58.856 4859MODE CODE 2 IND
	IU	LDO 0734 ON 58.908 4859MODE CODE 2 IND
S1B		MDI 2187 ON 59.004 2596TCS PULSE OK
	IU	LDO 0734 OFF 59.112 4859MODE CODE 2 IND
	IU	LDO 0734 ON 59.116 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 59.384 4859MODE CODE 2 IND
	IU	LDO 0734 ON 59.392 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 59.476 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 59.632 2596TCS PULSE OK
S1B S4B	IU	CDC 00 06
S1B		MDI 2187 ON 00.004 2596TCS PULSE OK
	IU	MDI 2236 ON 00.040 2605RAMP NO 1 ZERO
	IU	MDI 2237 ON 00.040 2606RAMP NO 2 ZERO
	IU	MDI 2238 ON 00.040 2607RAMP NO 3 ZERO

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	IU	MDI 0635	OFF	00.044	3335EDSRG ZERO TORQUE COMM
	IU	MDO 1906	OFF	00.048	1603EDS RG PITCH AXIS SEL ON
	IU	MDI 0631	OFF	00.052	3331EDSRG PITCH AXIS SELECT
S1B	IU	LDO 0631	OFF	00.124	4398EDSRG PITCH AXIS SELECT
		DDA 2124	ON	00.184	4118VR0030-602
	IU	LDO 0734	ON	00.304	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	00.348	4859MODE CODE 2 IND
	IU	LDO 0734	ON	00.328	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	00.540	4859MODE CODE 2 IND
S1B	IU	LDO 0734	ON	00.592	4859MODE CODE 2 IND
		MDI 2187	OFF	00.632	2596TCS PULSE OK
	IU	LDO 0734	OFF	00.796	4859MODE CODE 2 IND
	IU	LDO 0734	ON	00.804	4859MODE CODE 2 IND
S1B		MDI 2187	ON	01.004	2596TCS PULSE OK
	IU	LDO 0734	OFF	01.088	4859MODE CODE 2 IND
	IU	LDO 0734	ON	01.092	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	01.160	4859MODE CODE 2 IND
S1B		MDI 2187	OFF	01.632	2596TCS PULSE OK
	IU	LDO 0734	ON	01.988	4859MODE CODE 2 IND
S1B		MDI 2187	ON	02.004	2596TCS PULSE OK
	IU	LDO 0734	OFF	02.028	4859MODE CODE 2 IND
	IU	LDO 0734	ON	02.208	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	02.220	4859MODE CODE 2 IND
	IU	LDO 0734	ON	02.272	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	02.448	4859MODE CODE 2 IND
	IU	LDO 0734	ON	02.484	4859MODE CODE 2 IND
S1B		MDI 2187	OFF	02.632	2596TCS PULSE OK
	IU	LDO 0734	OFF	02.736	4859MODE CODE 2 IND
	IU	LDO 0734	ON	02.772	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	02.848	4859MODE CODE 2 IND
S1B		MDI 2187	ON	03.004	2596TCS PULSE OK
S1B		MDI 2187	OFF	03.632	2596TCS PULSE OK
	IU	LDO 0734	ON	03.676	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	03.724	4859MODE CODE 2 IND
	IU	LDO 0734	ON	03.896	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	03.908	4859MODE CODE 2 IND
	IU	LDO 0734	ON	03.992	4859MODE CODE 2 IND
S1B		MDI 2187	ON	04.004	2596TCS PULSE OK
	IU	LDO 0734	OFF	04.160	4859MODE CODE 2 IND
	IU	LDO 0734	ON	04.188	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	04.444	4859MODE CODE 2 IND
	IU	LDO 0734	ON	04.452	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	04.556	4859MODE CODE 2 IND
S1B		MDI 2187	OFF	04.632	2596TCS PULSE OK
S1B		MDI 2187	ON	05.004	2596TCS PULSE OK
	IU	LDO 0734	ON	05.368	4859MODE CODE 2 IND

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	IU	LDO 0734 OFF 05.412 4859MODE CODE 2 IND
S1B	IU	LDO 0734 ON 05.628 4859MODE CODE 2 IND
		MDI 2187 OFF 05.632 2596TCS PULSE OK
	IU	LDO 0734 OFF 05.640 4859MODE CODE 2 IND
	IU	LDO 0734 ON 05.720 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 05.864 4859MODE CODE 2 IND
S1B	IU	LDO 0734 ON 05.868 4859MODE CODE 2 IND
		MDI 2187 ON 06.004 2596TCS PULSE OK
	IU	LDO 0734 OFF 06.140 4859MODE CODE 2 IND
	IU	LDO 0734 ON 06.148 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 06.232 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 06.632 2596TCS PULSE OK
		MDI 2187 ON 07.004 2596TCS PULSE OK
	IU	LDO 0734 ON 07.056 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 07.100 4859MODE CODE 2 IND
	IU	LDO 0734 ON 07.312 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 07.324 4859MODE CODE 2 IND
	IU	LDO 0734 ON 07.388 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 07.548 4859MODE CODE 2 IND
S1B	IU	LDO 0734 ON 07.796 4859MODE CODE 2 IND
		MDI 2187 OFF 07.632 2596TCS PULSE OK
	IU	LDO 0734 OFF 07.824 4859MODE CODE 2 IND
	IU	LDO 0734 ON 07.832 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 07.916 4859MODE CODE 2 IND
S1B	IU	MDI 0630 ON 07.976 3330EDSRG YAW AXIS SELECT
		MDI 2187 ON 08.004 2596TCS PULSE OK
	IU	LDO 0630 ON 08.036 4397EDSRG YAW AXIS SELECT
S1B		MDI 2187 OFF 08.432 2596TCS PULSE OK
	IU	LDO 0734 ON 08.776 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 08.816 4859MODE CODE 2 IND
	IU	LDO 0734 ON 08.992 4859MODE CODE 2 IND
S1B		MDI 2187 ON 09.004 2596TCS PULSE OK
	IU	LDO 0734 OFF 09.004 4859MODE CODE 2 IND
	IU	LDO 0734 ON 09.060 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 09.228 4859MODE CODE 2 IND
	IU	LDO 0734 ON 09.236 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 09.504 4859MODE CODE 2 IND
	IU	LDO 0734 ON 09.512 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 09.632 2596TCS PULSE OK
	IU	LDO 0734 OFF 09.636 4859MODE CODE 2 IND
S1B		MDI 2187 ON 10.004 2596TCS PULSE OK
	IU	LDO 0734 ON 10.464 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 10.508 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 10.632 2596TCS PULSE OK
	IU	LDO 0734 ON 10.696 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 10.712 4859MODE CODE 2 IND

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TEST SIN FLT MAL CAT RUN 73 11

	IU	LDO 0734 ON	10.764	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	10.924	4859MODE CODE 2 IND
	IU	LDO 0734 ON	10.932	4859MODE CODE 2 IND
	IU	MDO 0695 ON	10.992	2027RAMP NEG
	IU	MDI 0889 ON	10.996	3577RAMP IND
S1B		MDI 2187 ON	11.004	2596TCS PULSE OK
	IU	MDI 2236 OFF	11.016	2605RAMP NO 1 ZERO
	IU	MDI 2237 OFF	11.016	2606RAMP NO 2 ZERO
	IU	MDI 2238 OFF	11.016	2607RAMP NO 3 ZERO
	IU	LDO 0889 ON	11.056	4674RAMP IND
	IU	LDO 0734 OFF	11.244	4859MODE CODE 2 IND
	IU	LDO 0734 ON	11.248	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	11.332	4859MODE CODE 2 IND
S1B		DDA 2126 OFF	11.432	4120VR0028-602
S1B		MDI 2187 OFF	11.632	2596TCS PULSE OK
S1B		MDI 2187 ON	12.004	2596TCS PULSE OK
	IU	LDO 0734 ON	12.164	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	12.204	4859MODE CODE 2 IND
	IU	LDO 0734 ON	12.380	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	12.420	4859MODE CODE 2 IND
	IU	LDO 0734 ON	12.456	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	12.616	4859MODE CODE 2 IND
	IU	LDO 0734 ON	12.620	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	12.632	2596TCS PULSE OK
	IU	LDO 0734 OFF	12.928	4859MODE CODE 2 IND
	IU	LDO 0734 ON	12.936	4859MODE CODE 2 IND
S1B		MDI 2187 ON	13.004	2596TCS PULSE OK
	IU	LDO 0734 OFF	13.040	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	13.632	2596TCS PULSE OK
	IU	LDO 0734 ON	13.852	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	13.892	4859MODE CODE 2 IND
S1B		MDI 2187 ON	14.004	2596TCS PULSE OK
	IU	LDO 0734 ON	14.064	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	14.104	4859MODE CODE 2 IND
	IU	LDO 0734 ON	14.140	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	14.304	4859MODE CODE 2 IND
	IU	LDO 0734 ON	14.312	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	14.620	4859MODE CODE 2 IND
	IU	LDO 0734 ON	14.624	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	14.632	2596TCS PULSE OK
	IU	LDO 0734 OFF	14.716	4859MODE CODE 2 IND
S1B		MDI 2187 ON	15.004	2596TCS PULSE OK
	IU	LDO 0734 ON	15.536	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	15.580	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	15.632	2596TCS PULSE OK
	IU	LDO 0734 ON	15.780	4859MODE CODE 2 IND

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	LD0	0734	OFF	15.792	4859MODE CODE 2 IND
	LD0	0734	ON	15.828	4859MODE CODE 2 IND
	MD0	0695	OFF	15.960	2027RAMP NEG
	MDI	0889	OFF	15.968	3577RAMP IND
913	MDI	2187	ON	16.004	2596TCS PULSE OK
	LD0	0889	OFF	16.036	4674RAMP IND
	LD0	0734	OFF	16.048	4859MODE CODE 2 IND
	LD0	0734	ON	16.056	4859MODE CODE 2 IND
	LD0	0734	OFF	16.316	4859MODE CODE 2 IND
	LD0	0734	ON	16.324	4859MODE CODE 2 IND
	LD0	0734	OFF	16.424	4859MODE CODE 2 IND
913	MDI	2187	OFF	16.632	2596TCS PULSE OK
913	MDI	2187	ON	17.004	2596TCS PULSE OK
	LD0	0734	ON	17.252	4859MODE CODE 2 IND
	LD0	0734	OFF	17.296	4859MODE CODE 2 IND
	LD0	0734	ON	17.480	4859MODE CODE 2 IND
	LD0	0734	OFF	17.524	4859MODE CODE 2 IND
	LD0	0734	ON	17.556	4859MODE CODE 2 IND
913	MDI	2187	OFF	17.632	2596TCS PULSE OK
	LD0	0734	OFF	17.744	4859MODE CODE 2 IND
	LD0	0734	ON	17.752	4859MODE CODE 2 IND
913	MDI	2187	ON	18.004	2596TCS PULSE OK
	LD0	0734	OFF	18.032	4859MODE CODE 2 IND
	LD0	0734	ON	18.036	4859MODE CODE 2 IND
	LD0	0734	OFF	18.136	4859MODE CODE 2 IND
913	MDI	2187	OFF	18.632	2596TCS PULSE OK
	LD0	0734	ON	18.952	4859MODE CODE 2 IND
	LD0	0734	OFF	18.996	4859MODE CODE 2 IND
913	MDI	2187	ON	19.004	2596TCS PULSE OK
	LD0	0734	ON	19.184	4859MODE CODE 2 IND
	LD0	0734	OFF	19.224	4859MODE CODE 2 IND
	LD0	0734	ON	19.268	4859MODE CODE 2 IND
	LD0	0734	OFF	19.440	4859MODE CODE 2 IND
	LD0	0734	ON	19.448	4859MODE CODE 2 IND
	MDI	0635	ON	19.492	3335EDSRG ZERO TORQUE COMM
913	MDI	2187	OFF	19.632	2596TCS PULSE OK
	LD0	0734	OFF	19.724	4859MODE CODE 2 IND
	LD0	0734	ON	19.732	4859MODE CODE 2 IND
	LD0	0734	OFF	19.804	4859MODE CODE 2 IND
913	MDI	2187	ON	20.004	2596TCS PULSE OK
913	MDI	2187	OFF	20.632	2596TCS PULSE OK
	LD0	0734	ON	20.632	4859MODE CODE 2 IND
	LD0	0734	OFF	20.676	4859MODE CODE 2 IND
	LD0	0734	ON	20.880	4859MODE CODE 2 IND
	LD0	0734	OFF	20.920	4859MODE CODE 2 IND
	LD0	0734	ON	20.956	4859MODE CODE 2 IND

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S10		MDI 2187 ON 21.004 2596TCS PULSE OK
	IU	LDO 0734 OFF 21.120 4859MODE CODE 2 IND
	IU	LDO 0734 ON 21.128 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 21.400 4859MODE CODE 2 IND
	IU	LDO 0734 ON 21.408 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 21.512 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 21.632 2596TCS PULSE OK
S1B		MDI 2187 ON 22.004 2596TCS PULSE OK
	IU	LDO 0734 ON 22.336 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 22.380 4859MODE CODE 2 IND
	IU	LDO 0734 ON 22.596 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 22.608 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 22.632 2596TCS PULSE OK
	IU	LDO 0734 ON 22.660 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 22.832 4859MODE CODE 2 IND
	IU	LDO 0734 ON 22.836 4859MODE CODE 2 IND
S1B		MDI 2187 ON 23.004 2596TCS PULSE OK
	IU	LDO 0734 OFF 23.100 4859MODE CODE 2 IND
	IU	LDO 0734 ON 23.144 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 23.224 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 23.632 2596TCS PULSE OK
S1B		MDI 2187 ON 24.004 2596TCS PULSE OK
	IU	LDO 0734 ON 24.096 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 24.136 4859MODE CODE 2 IND
	IU	LDO 0734 ON 24.312 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 24.324 4859MODE CODE 2 IND
	IU	LDO 0734 ON 24.376 4859MODE CODE 2 IND
	IU	MDI 2236 ON 24.464 2605RAMP NO 1 ZERO
	IU	MDI 2237 ON 24.464 2606RAMP NO 2 ZERO
	IU	MDI 2238 ON 24.464 2607RAMP NO 3 ZERO
	IU	MDI 0635 OFF 24.468 3335EDSRG ZERO TORQUE COMM
	IU	MDI 0630 OFF 24.476 3330EDSRG YAW AXIS SELECT
	IU	LDO 0630 OFF 24.540 4397EDSRG YAW AXIS SELECT
	IU	LDO 0734 OFF 24.580 4859MODE CODE 2 IND
	IU	LDO 0734 ON 24.584 4859MODE CODE 2 IND
S1B		DDA 2126 ON 24.596 4120VR0028-602
S1B		MDI 2187 OFF 24.632 2596TCS PULSE OK
	IU	LDO 0734 OFF 24.832 4859MODE CODE 2 IND
	IU	LDO 0734 ON 24.840 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 24.976 4859MODE CODE 2 IND
S1B		MDI 2187 ON 25.000 2596TCS PULSE OK
S1B		MDI 2187 OFF 25.632 2596TCS PULSE OK
	IU	LDO 0734 ON 25.808 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 25.848 4859MODE CODE 2 IND
S1B		MDI 2187 ON 26.000 2596TCS PULSE OK
	IU	LDO 0734 ON 26.020 4859MODE CODE 2 IND

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TEST S18 FLT MAL DAT 001 73 11

	IU	LDO 0734 OFF	26.060	4859MODE CODE 2	IND
	IU	LDO 0734 ON	26.100	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	26.264	4859MODE CODE 2	IND
	IU	LDO 0734 ON	26.272	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	26.584	4859MODE CODE 2	IND
	IU	LDO 0734 ON	26.592	4859MODE CODE 2	IND
S18		MDI 2187 OFF	26.632	2596TCS PULSE	OK
	IU	LDO 0734 OFF	26.712	4859MODE CODE 2	IND
S18		MDI 2187 ON	27.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	27.508	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	27.548	4859MODE CODE 2	IND
S18		MDI 2187 OFF	27.632	2596TCS PULSE	OK
	IU	LDO 0734 ON	27.736	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	27.776	4859MODE CODE 2	IND
	IU	LDO 0734 ON	27.812	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	27.964	4859MODE CODE 2	IND
	IU	LDO 0734 ON	27.968	4859MODE CODE 2	IND
S18		MDI 2187 ON	28.000	2596TCS PULSE	OK
	IU	LDO 0734 OFF	28.284	4859MODE CODE 2	IND
	IU	LDO 0734 ON	28.288	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	28.392	4859MODE CODE 2	IND
S18		MDI 2187 OFF	28.632	2596TCS PULSE	OK
S18		MDI 2187 ON	29.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	29.224	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	29.268	4859MODE CODE 2	IND
	IU	LDO 0734 ON	29.448	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	29.460	4859MODE CODE 2	IND
	IU	LDO 0734 ON	29.508	4859MODE CODE 2	IND
S18		MDI 2187 OFF	29.632	2596TCS PULSE	OK
	IU	LDO 0734 OFF	29.684	4859MODE CODE 2	IND
	IU	LDO 0734 ON	29.692	4859MODE CODE 2	IND
S18		MDI 2187 ON	30.000	2596TCS PULSE	OK
	IU	LDO 0734 OFF	30.000	4859MODE CODE 2	IND
	IU	LDO 0734 ON	30.008	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	30.120	4859MODE CODE 2	IND
S18		MDI 2187 OFF	30.512	2596TCS PULSE	OK
	IU	LDO 0734 ON	30.940	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	30.980	4859MODE CODE 2	IND
S18		MDI 2187 ON	31.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	31.172	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	31.184	4859MODE CODE 2	IND
	IU	LDO 0734 ON	31.232	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	31.440	4859MODE CODE 2	IND
	IU	LDO 0734 ON	31.444	4859MODE CODE 2	IND
S18		MDI 2187 OFF	31.632	2596TCS PULSE	OK
	IU	LDO 0734 OFF	31.728	4859MODE CODE 2	IND

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	IU	LDO 0734 ON	31.736	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	31.832	4859MODE CODE 2 IND
S1B		MDI 2187 ON	32.000	2596TCS PULSE OK
S1B		MDI 2187 OFF	32.632	2596TCS PULSE OK
	IU	LDO 0734 ON	32.660	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	32.700	4859MODE CODE 2 IND
	IU	LDO 0734 ON	32.884	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	32.995	4859MODE CODE 2 IND
	IU	LDO 0734 ON	32.948	4859MODE CODE 2 IND
S1B		MDI 2187 ON	33.000	2596TCS PULSE OK
	IU	LDO 0734 OFF	33.156	4859MODE CODE 2 IND
	IU	LDO 0734 ON	33.164	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	33.444	4859MODE CODE 2 IND
	IU	LDO 0734 ON	33.448	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	33.552	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	33.632	2596TCS PULSE OK
S1B		MDI 2187 ON	34.000	2596TCS PULSE OK
	IU	LDO 0734 ON	34.360	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	34.400	4859MODE CODE 2 IND
	IU	LDO 0734 ON	34.580	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	34.592	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	34.632	2596TCS PULSE OK
	IU	LDO 0734 ON	34.680	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	34.852	4859MODE CODE 2 IND
	IU	LDO 0734 ON	34.856	4859MODE CODE 2 IND
S1B		MDI 2187 ON	35.000	2596TCS PULSE OK
	IU	LDO 0734 OFF	35.136	4859MODE CODE 2 IND
	IU	LDO 0734 ON	35.144	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	35.244	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	35.332	2596TCS PULSE OK
S1B		MDI 2187 ON	36.000	2596TCS PULSE OK
	IU	LDO 0734 ON	36.076	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	36.120	4859MODE CODE 2 IND
	IU	LDO 0734 ON	36.316	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	36.328	4859MODE CODE 2 IND
	IU	LDO 0734 ON	36.388	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	36.552	4859MODE CODE 2 IND
	IU	LDO 0734 ON	36.556	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	36.632	2596TCS PULSE OK
	IU	LDO 0734 OFF	36.832	4859MODE CODE 2 IND
	IU	LDO 0734 ON	36.840	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	36.940	4859MODE CODE 2 IND
S1B		MDI 2187 ON	37.000	2596TCS PULSE OK
S1B		MDI 2187 OFF	37.632	2596TCS PULSE OK
	IU	LDO 0734 ON	37.748	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	37.792	4859MODE CODE 2 IND

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TEST SIM FLT MAL CAT 1/3 11

S1B		MDI 2187 ON	38.000	2596TCS PULSE OK
	IU	LDO 0734 ON	38.012	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	38.024	4859MODE CODE 2 IND
	IU	LDO 0734 ON	38.088	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	38.244	4859MODE CODE 2 IND
	IU	LDO 0734 ON	38.248	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	38.528	4859MODE CODE 2 IND
	IU	LDO 0734 ON	38.536	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	38.628	2596TCS PULSE OK
	IU	LDO 0734 OFF	38.680	4859MODE CODE 2 IND
S1B		MDI 2187 ON	39.000	2596TCS PULSE OK
	IU	LDO 0734 ON	39.512	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	39.548	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	39.772	2596TCS PULSE OK
	IU	LDO 0734 ON	39.724	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	39.740	4859MODE CODE 2 IND
	IU	LDO 0734 ON	39.792	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	39.964	4859MODE CODE 2 IND
	IU	LDO 0734 ON	39.972	4859MODE CODE 2 IND
S1B		MDI 2187 ON	40.000	2596TCS PULSE OK
	IU	LDO 0734 OFF	40.284	4859MODE CODE 2 IND
	IU	LDO 0734 ON	40.292	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	40.396	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	40.628	2596TCS PULSE OK
S1B		MDI 2187 ON	41.000	2596TCS PULSE OK
	IU	LDO 0734 ON	41.232	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	41.272	4859MODE CODE 2 IND
	IU	LDO 0734 ON	41.448	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	41.464	4859MODE CODE 2 IND
	IU	LDO 0734 ON	41.512	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	41.628	2596TCS PULSE OK
	IU	LDO 0734 OFF	41.688	4859MODE CODE 2 IND
	IU	LDO 0734 ON	41.700	4859MODE CODE 2 IND
S1B		MDI 2187 ON	42.000	2596TCS PULSE OK
	IU	LDO 0734 OFF	42.004	4859MODE CODE 2 IND
	IU	LDO 0734 ON	42.012	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	42.116	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	42.628	2596TCS PULSE OK
	IU	LDO 0734 ON	42.944	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	42.988	4859MODE CODE 2 IND
S1B		MDI 2187 ON	43.000	2596TCS PULSE OK
	IU	LDO 0734 ON	43.180	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	43.220	4859MODE CODE 2 IND
	IU	LDO 0734 ON	43.252	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	43.400	4859MODE CODE 2 IND
	IU	LDO 0734 ON	43.404	4859MODE CODE 2 IND

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S1B		MDI 2187 OFF 43.628 2596TCS PULSE OK
	IU	LDO 0734 OFF 43.732 4859MODE CODE 2 IND
	IU	LDO 0734 ON 43.740 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 43.836 4859MODE CODE 2 IND
S1B		MDI 2187 ON 44.000 2596TCS PULSE OK
S1B		MDI 2187 OFF 44.428 2596TCS PULSE OK
	IU	LDO 0734 ON 44.664 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 44.708 4859MODE CODE 2 IND
	IU	LDO 0734 ON 44.884 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 44.948 4859MODE CODE 2 IND
	IU	LDO 0734 ON 44.948 4859MODE CODE 2 IND
S1B		MDI 2187 ON 45.000 2596TCS PULSE OK
	IU	LDO 0734 OFF 45.160 4859MODE CODE 2 IND
	IU	LDO 0734 ON 45.164 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 45.444 4859MODE CODE 2 IND
	IU	LDO 0734 ON 45.452 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 45.552 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 45.628 2596TCS PULSE OK
S1B		MDI 2187 ON 46.000 2596TCS PULSE OK
	IU	LDO 0734 ON 46.160 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 46.420 4859MODE CODE 2 IND
	IU	LDO 0734 ON 46.604 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 46.616 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 46.628 2596TCS PULSE OK
	IU	LDO 0734 ON 46.676 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 46.876 4859MODE CODE 2 IND
	IU	LDO 0734 ON 46.884 4859MODE CODE 2 IND
S1B		MDI 2187 ON 47.000 2596TCS PULSE OK
	IU	LDO 0734 OFF 47.160 4859MODE CODE 2 IND
	IU	LDO 0734 ON 47.168 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 47.272 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 47.628 2596TCS PULSE OK
S1B		MDI 2187 ON 48.000 2596TCS PULSE OK
	IU	LDO 0734 ON 48.088 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.128 4859MODE CODE 2 IND
	IU	LDO 0734 ON 48.304 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.316 4859MODE CODE 2 IND
	IU	LDO 0734 ON 48.400 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.568 4859MODE CODE 2 IND
	IU	LDO 0734 ON 48.576 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 48.628 2596TCS PULSE OK
	IU	LDO 0734 OFF 48.856 4859MODE CODE 2 IND
	IU	LDO 0734 ON 48.864 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.964 4859MODE CODE 2 IND
S1B		MDI 2187 ON 49.000 2596TCS PULSE OK
S1B		MDI 2187 OFF 49.628 2596TCS PULSE OK

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	IU	LDO 0734 ON	49.776	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	49.816	4859MODE CODE 2	IND
S1B		MDI 2187 ON	50.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	50.036	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	50.048	4859MODE CODE 2	IND
	IU	LDO 0734 ON	50.116	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	50.268	4859MODE CODE 2	IND
	IU	LDO 0734 ON	50.276	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	50.556	4859MODE CODE 2	IND
	IU	LDO 0734 ON	50.564	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	50.628	2596TCS PULSE	OK
	IU	LDO 0734 OFF	50.664	4859MODE CODE 2	IND
S1B		MDI 2187 ON	51.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	51.472	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	51.516	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	51.520	2596TCS PULSE	OK
	IU	LDO 0734 ON	51.724	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	51.736	4859MODE CODE 2	IND
	IU	LDO 0734 ON	51.792	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	51.844	4859MODE CODE 2	IND
	IU	LDO 0734 ON	51.972	4859MODE CODE 2	IND
S1B		MDI 2187 ON	52.000	2596TCS PULSE	OK
	IU	LDO 0734 OFF	52.240	4859MODE CODE 2	IND
	IU	LDO 0734 ON	52.276	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	52.392	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	52.628	2596TCS PULSE	OK
S1B		MDI 2187 ON	53.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	53.224	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	53.264	4859MODE CODE 2	IND
	IU	LDO 0734 ON	53.468	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	53.480	4859MODE CODE 2	IND
	IU	LDO 0734 ON	53.516	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	53.628	2596TCS PULSE	OK
	IU	LDO 0734 OFF	53.680	4859MODE CODE 2	IND
	IU	LDO 0734 ON	53.720	4859MODE CODE 2	IND
S1B		MDI 2187 ON	54.000	2596TCS PULSE	OK
	IU	LDO 0734 OFF	54.004	4859MODE CODE 2	IND
	IU	LDO 0734 ON	54.012	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	54.112	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	54.628	2596TCS PULSE	OK
	IU	LDO 0734 ON	54.940	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	54.996	4859MODE CODE 2	IND
S1B		MDI 2187 ON	55.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	55.160	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	55.172	4859MODE CODE 2	IND
	IU	LDO 0734 ON	55.224	4859MODE CODE 2	IND

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	IU	LDO 0734 OFF	55.396	4859MODE CODE 2	IND
	IU	LDO 0734 ON	55.400	4859MODE CODE 2	IND
S18		MDI 2187 OFF	55.628	2596TCS PULSE	OK
	IU	LDO 0734 OFF	55.724	4859MODE CODE 2	IND
	IU	LDO 0734 ON	55.732	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	55.828	4859MODE CODE 2	IND
S18		MDI 2187 ON	56.000	2596TCS PULSE	OK
S18		MDI 2187 OFF	56.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	56.676	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	56.688	4859MODE CODE 2	IND
	IU	LDO 0734 ON	56.880	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	56.892	4859MODE CODE 2	IND
	IU	LDO 0734 ON	56.944	4859MODE CODE 2	IND
S18		MDI 2187 ON	57.000	2596TCS PULSE	OK
	IU	LDO 0734 OFF	57.116	4859MODE CODE 2	IND
	IU	LDO 0734 ON	57.120	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	57.436	4859MODE CODE 2	IND
	IU	LDO 0734 ON	57.440	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	57.544	4859MODE CODE 2	IND
S18		MDI 2187 OFF	57.628	2596TCS PULSE	OK
S18		MDI 2187 ON	58.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	58.376	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	58.416	4859MODE CODE 2	IND
	IU	LDO 0734 ON	58.604	4859MODE CODE 2	IND
S18		MDI 2187 OFF	58.628	2596TCS PULSE	OK
	IU	LDO 0734 OFF	58.644	4859MODE CODE 2	IND
	IU	LDO 0734 ON	58.680	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	58.868	4859MODE CODE 2	IND
	IU	LDO 0734 ON	58.876	4859MODE CODE 2	IND
S18		MDI 2187 ON	59.000	2596TCS PULSE	OK
	IU	LDO 0734 OFF	59.148	4859MODE CODE 2	IND
	IU	LDO 0734 ON	59.180	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	59.264	4859MODE CODE 2	IND
S18		MDI 2187 OFF	59.628	2596TCS PULSE	OK
S18 S48	IU	CDC 00 07			
S18		MDI 2187 ON	00.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	00.100	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	00.140	4859MODE CODE 2	IND
	IU	LDO 0734 ON	00.316	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	00.328	4859MODE CODE 2	IND
	IU	LDO 0734 ON	00.380	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	00.588	4859MODE CODE 2	IND
	IU	LDO 0734 ON	00.596	4859MODE CODE 2	IND
S18		MDI 2187 OFF	00.628	2596TCS PULSE	OK
	IU	LDO 0734 OFF	00.876	4859MODE CODE 2	IND
	IU	LDO 0734 ON	00.880	4859MODE CODE 2	IND

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S18	IU	LDO 0734 OFF 00.984 4859MODE CODE 2 IND
S18		MDI 2187 ON 01.000 2596TCS PULSE OK
S18		MDI 2187 OFF 01.628 2596TCS PULSE OK
	IU	LDO 0734 ON 01.796 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 01.848 4859MODE CODE 2 IND
S18		MDI 2187 ON 02.000 2596TCS PULSE OK
	IU	LDO 0734 ON 02.020 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 02.032 4859MODE CODE 2 IND
	IU	LDO 0734 ON 02.116 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 02.288 4859MODE CODE 2 IND
	IU	LDO 0734 ON 02.296 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 02.572 4859MODE CODE 2 IND
	IU	LDO 0734 ON 02.580 4859MODE CODE 2 IND
S18		MDI 2187 OFF 02.628 2596TCS PULSE OK
	IU	LDO 0734 OFF 02.684 4859MODE CODE 2 IND
S18		MDI 2187 ON 03.000 2596TCS PULSE OK
	IU	LDO 0734 ON 03.496 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 03.540 4859MODE CODE 2 IND
S18		MDI 2187 OFF 03.628 2596TCS PULSE OK
	IU	LDO 0734 ON 03.752 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 03.764 4859MODE CODE 2 IND
	IU	LDO 0734 ON 03.816 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 03.988 4859MODE CODE 2 IND
	IU	LDO 0734 ON 03.992 4859MODE CODE 2 IND
S18		MDI 2187 ON 04.000 2596TCS PULSE OK
	IU	LDO 0734 OFF 04.272 4859MODE CODE 2 IND
	IU	LDO 0734 ON 04.276 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 04.380 4859MODE CODE 2 IND
S18		MDI 2187 OFF 04.628 2596TCS PULSE OK
S18		MDI 2187 ON 05.000 2596TCS PULSE OK
	IU	LDO 0734 ON 05.188 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 05.228 4859MODE CODE 2 IND
	IU	LDO 0734 ON 05.448 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 05.460 4859MODE CODE 2 IND
	IU	LDO 0734 ON 05.508 4859MODE CODE 2 IND
S17		MDI 2187 OFF 05.872 2596TCS PULSE OK
	IU	LDO 0734 OFF 05.684 4859MODE CODE 2 IND
	IU	LDO 0734 ON 05.696 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 05.968 4859MODE CODE 2 IND
	IU	LDO 0734 ON 05.976 4859MODE CODE 2 IND
S18		MDI 2187 ON 06.000 2596TCS PULSE OK
	IU	LDO 0734 OFF 06.112 4859MODE CODE 2 IND
S18		MDI 2187 OFF 06.628 2596TCS PULSE OK
	IU	LDO 0734 ON 06.948 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 06.988 4859MODE CODE 2 IND
S18		MDI 2187 ON 07.000 2596TCS PULSE OK

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	IU	LDO 0734 ON	07.180	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	07.224	4859MODE CODE 2	IND
	IU	LDO 0734 ON	07.256	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	07.404	4859MODE CODE 2	IND
	IU	LDO 0734 ON	07.412	4859MODE CODE 2	IND
S17		MDI 2187 OFF	07.424	2596TCS PULSE	OK
	IU	LDO 0734 OFF	07.736	4859MODE CODE 2	IND
	IU	LDO 0734 ON	07.744	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	07.832	4859MODE CODE 2	IND
S18		MDI 2187 ON	08.000	2596TCS PULSE	OK
S18		MDI 2187 OFF	08.628	2596TCS PULSE	OK
	IU	LDO 0734 ON	08.664	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	08.736	4859MODE CODE 2	IND
	IU	LDO 0734 ON	08.892	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	08.904	4859MODE CODE 2	IND
	IU	LDO 0734 ON	08.956	4859MODE CODE 2	IND
S18		MDI 2187 ON	09.000	2596TCS PULSE	OK
	IU	LDO 0734 OFF	09.116	4859MODE CODE 2	IND
	IU	LDO 0734 ON	09.124	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	09.444	4859MODE CODE 2	IND
	IU	LDO 0734 ON	09.448	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	09.552	4859MODE CODE 2	IND
S18		MDI 2187 OFF	09.628	2596TCS PULSE	OK
S18		MDI 2187 ON	10.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	10.380	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	10.424	4859MODE CODE 2	IND
	IU	LDO 0734 ON	10.608	4859MODE CODE 2	IND
S17		MDI 2187 OFF	10.624	2596TCS PULSE	OK
	IU	LDO 0734 OFF	10.648	4859MODE CODE 2	IND
	IU	LDO 0734 ON	10.684	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	10.836	4859MODE CODE 2	IND
	IU	LDO 0734 ON	10.844	4859MODE CODE 2	IND
S18		MDI 2187 ON	11.000	2596TCS PULSE	OK
	IU	LDO 0734 OFF	11.152	4859MODE CODE 2	IND
	IU	LDO 0734 ON	11.188	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	11.272	4859MODE CODE 2	IND
S18		MDI 2187 OFF	11.628	2596TCS PULSE	OK
S18		MDI 2187 ON	12.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	12.100	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.140	4859MODE CODE 2	IND
	IU	LDO 0734 ON	12.320	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.332	4859MODE CODE 2	IND
	IU	LDO 0734 ON	12.384	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.588	4859MODE CODE 2	IND
	IU	LDO 0734 ON	12.596	4859MODE CODE 2	IND
S17		MDI 2187 OFF	12.628	2596TCS PULSE	OK

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	IU	LDO 0734 OFF	12.876	4859MODE CODE 2	IND
	IU	LDO 0734 ON	12.912	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.984	4859MODE CODE 2	IND
S1B		MDI 2187 ON	13.000	2596TCS PULSE	OK
S1B		MDI 2187 OFF	13.628	2596TCS PULSE	OK
	IU	LDO 0734 ON	13.812	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	13.852	4859MODE CODE 2	IND
S1B		MDI 2187 ON	14.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	14.032	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.044	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.112	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.308	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.316	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.592	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	14.628	2596TCS PULSE	OK
	IU	LDO 0734 ON	14.628	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.712	4859MODE CODE 2	IND
S1B		MDI 2187 ON	15.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	15.516	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	15.556	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	15.628	2596TCS PULSE	OK
	IU	LDO 0734 ON	15.764	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	15.804	4859MODE CODE 2	IND
	IU	LDO 0734 ON	15.844	4859MODE CODE 2	IND
S1B		MDI 2187 ON	16.000	2596TCS PULSE	OK
	IU	LDO 0734 OFF	16.008	4859MODE CODE 2	IND
	IU	LDO 0734 ON	16.016	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	16.288	4859MODE CODE 2	IND
	IU	LDO 0734 ON	16.320	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	16.400	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	16.628	2596TCS PULSE	OK
S1B		MDI 2187 ON	17.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	17.204	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	17.244	4859MODE CODE 2	IND
	IU	LDO 0734 ON	17.484	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	17.496	4859MODE CODE 2	IND
	IU	LDO 0734 ON	17.532	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	17.628	2596TCS PULSE	OK
	IU	LDO 0734 OFF	17.708	4859MODE CODE 2	IND
	IU	LDO 0734 ON	17.744	4859MODE CODE 2	IND
S1B		MDI 2187 ON	18.000	2596TCS PULSE	OK
	IU	LDO 0734 OFF	18.012	4859MODE CODE 2	IND
	IU	LDO 0734 ON	18.020	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	18.104	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	18.628	2596TCS PULSE	OK
	IU	LDO 0734 ON	18.928	4859MODE CODE 2	IND

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	IU	LDO 0734 OFF	18.968	4859MODE CODE 2	IND
S1B		MDI 2187 ON	19.000	2596TCS PULSE	OK
	IU	LDO 0734 ON	19.176	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	19.188	4859MODE CODE 2	IND
	IU	LDO 0734 ON	19.248	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	19.416	4859MODE CODE 2	IND
	IU	LDO 0734 ON	19.424	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	19.628	2596TCS PULSE	OK
	IU	LDO 0734 OFF	19.708	4859MODE CODE 2	IND
	IU	LDO 0734 ON	19.744	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	19.844	4859MODE CODE 2	IND
S1B		MDI 2187 ON	19.996	2596TCS PULSE	OK
S1B		MDI 2187 OFF	20.628	2596TCS PULSE	OK
	IU	LDO 0734 ON	20.676	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	20.720	4859MODE CODE 2	IND
	IU	LDO 0734 ON	20.896	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	20.912	4859MODE CODE 2	IND
	IU	LDO 0734 ON	20.976	4859MODE CODE 2	IND
S1B		MDI 2187 ON	20.996	2596TCS PULSE	OK
	IU	LDO 0734 OFF	21.136	4859MODE CODE 2	IND
	IU	LDO 0734 ON	21.144	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	21.452	4859MODE CODE 2	IND
	IU	LDO 0734 ON	21.488	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	21.564	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	21.628	2596TCS PULSE	OK
S1B		MDI 2187 ON	21.996	2596TCS PULSE	OK
	IU	LDO 0734 ON	22.396	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	22.440	4859MODE CODE 2	IND
	IU	LDO 0734 ON	22.616	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	22.628	2596TCS PULSE	OK
	IU	LDO 0734 OFF	22.628	4859MODE CODE 2	IND
	IU	LDO 0734 ON	22.684	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	22.852	4859MODE CODE 2	IND
	IU	LDO 0734 ON	22.860	4859MODE CODE 2	IND
S1B		MDI 2187 ON	22.996	2596TCS PULSE	OK
	IU	LDO 0734 OFF	23.176	4859MODE CODE 2	IND
	IU	LDO 0734 ON	23.184	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	23.284	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	23.628	2596TCS PULSE	OK
S1B		MDI 2187 ON	23.996	2596TCS PULSE	OK
	IU	LDO 0734 ON	24.120	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	24.160	4859MODE CODE 2	IND
	IU	LDO 0734 ON	24.336	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	24.348	4859MODE CODE 2	IND
	IU	LDO 0734 ON	24.400	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	24.572	4859MODE CODE 2	IND

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S1B	IU	LDO 0734 ON	24.580	4859MODE CODE 2 IND
		MDI 2187 OFF	24.628	2596TCS PULSE OK
	IU	LDO 0734 OFF	24.896	4859MODE CODE 2 IND
	IU	LDO 0734 ON	24.900	4859MODE CODE 2 IND
S1B		MDI 2187 ON	24.996	2596TCS PULSE OK
	IU	LDO 0734 OFF	25.004	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	25.628	2596TCS PULSE OK
	IU	LDO 0734 ON	25.808	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	25.852	4859MODE CODE 2 IND
		MDI 2187 ON	25.896	2596TCS PULSE OK
	IU	LDO 0734 ON	26.044	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	26.056	4859MODE CODE 2 IND
	IU	LDO 0734 ON	26.104	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	26.304	4859MODE CODE 2 IND
	IU	LDO 0734 ON	26.312	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	26.588	4859MODE CODE 2 IND
	IU	LDO 0734 ON	26.624	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	26.628	2596TCS PULSE OK
	IU	LDO 0734 OFF	26.712	4859MODE CODE 2 IND
		MDI 2187 ON	26.796	2596TCS PULSE OK
	IU	LDO 0734 ON	27.528	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	27.568	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	27.628	2596TCS PULSE OK
	IU	LDO 0734 ON	27.748	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	27.760	4859MODE CODE 2 IND
	IU	LDO 0734 ON	27.812	4859MODE CODE 2 IND
S1B		MDI 2187 ON	27.996	2596TCS PULSE OK
	IU	LDO 0734 OFF	28.016	4859MODE CODE 2 IND
	IU	LDO 0734 ON	28.024	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	28.308	4859MODE CODE 2 IND
	IU	LDO 0734 ON	28.316	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	28.412	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	28.628	2596TCS PULSE OK
S1B		MDI 2187 ON	28.996	2596TCS PULSE OK
	IU	LDO 0734 ON	29.224	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	29.264	4859MODE CODE 2 IND
S1B	IU	MDI 2305 ON	29.300	3765S-IVB STAGE SEL
S48		MDI 1844 OFF	29.304	3928SW SEL ZERO
	IU	MDI 0817 OFF	29.308	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	29.308	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	29.308	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	29.308	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	29.308	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON	29.312	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	29.312	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	29.312	0509BIT NO 5 VERIFY

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	IU	LDI 1096 ON	29.312	0511BIT NO 7 VERIFY	
	IU	LDI 1097 ON	29.312	0512BIT NO 8 VERIFY	
	IU	LDI 1099 ON	29.312	0514S-IVB STAGE SELECTOR	
S1B		DDA 2088 ON	29.312	5164VXK0005-603	
S1B		DDA 2093 ON	29.312	5166VXK0008-603	
S1B		DDA 2094 ON	29.312	5167VXK0008-603	
S1B		DDA 2096 ON	29.312	5169VXK0008-603	
S1B		DDA 2098 ON	29.312	5171VXK0008-603	
S1B		DDA 2099 ON	29.312	5172VXK0008-603	
S4B		LDO 1844 OFF	29.356	4535SW SEL ZERO	
S1B	IU	MDI 2308 ON	29.456	3768READ COMMAND	
S1B	S4B IU	-2- 051 READ	29.456		
	IU	LDI 0983 ON	29.460	0463SW SEL READ	
	IU	LDI 1102 ON	29.460	0516SW SEL READ	
S1B		DDA 2085 ON	29.460	5161VXK0006-603	
S1B		DDA 2088 ON	29.460	5164VXK0005-603	
	IU	LDO 0734 ON	29.488	4859MODE CODE 2 IND	
	IU	MDI 2308 OFF	29.496	3768READ COMMAND	
S1B	IU	MDI 2308 OFF	29.496	3768READ COMMAND	
	IU	LDI 0983 OFF	29.504	0463SW SEL READ	
	IU	LDI 1099 OFF	29.504	0514S-IVB STAGE SELECTOR	
	IU	LDI 1102 OFF	29.504	0516SW SEL READ	
S4B		MDI 1844 ON	29.504	3928SW SEL ZERO	
S1B		DDA 2085 OFF	29.504	5161VXK0006-603	
S1B		DDA 2088 OFF	29.504	5164VXK0005-603	
	IU	MDI 0817 ON	29.508	3517REG CONT BIT 2 VERIFY IN	
	IU	MDI 0818 ON	29.508	3518REG CONT BIT 3 VERIFY IN	
	IU	MDI 0820 ON	29.508	3520REG CONT BIT 5 VERIFY IN	
	IU	MDI 0822 ON	29.508	3522REG CONT BIT 7 VERIFY IN	
	IU	MDI 0823 ON	29.508	3523REG CONT BIT 8 VERIFY IN	
S1B		DDA 2029 OFF	29.508	4080VK0128-404	
	IU	LDI 1091 OFF	29.512	0506BIT NO 2 VERIFY	
S1B		DDA 2098 OFF	29.512	5171VXK0008-603	
S1B		DDA 2099 OFF	29.512	5172VXK0008-603	
	IU	LDI 1092 OFF	29.516	0507BIT NO 3 VERIFY	
	IU	LDI 1094 OFF	29.516	0509BIT NO 5 VERIFY	
	IU	LDI 1096 OFF	29.516	0511BIT NO 7 VERIFY	
	IU	LDI 1097 OFF	29.516	0512BIT NO 8 VERIFY	
S1B		DDA 2093 OFF	29.516	5166VXK0008-603	
S1B		DDA 2094 OFF	29.516	5167VXK0008-603	
S1B		DDA 2096 OFF	29.516	5169VXK0008-603	
S4B		LDO 1844 ON	29.548	4535SW SEL ZERO	
S1B		MDI 2187 OFF	29.628	2596TCS PULSE ON	
	IU	LDO 0734 ON	29.488	4859MODE CODE 2 IND	
	IU	LDO 1774 OFF	29.504	4859MODE CODE 2 IND	

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S18	IU	LDO 0734 ON	29.812	4859MODE CODE 2 IND
		MDI 2187 ON	29.996	2596TCS PULSE OK
	IU	LDO 0734 OFF	30.092	4859MODE CODE 2 IND
	IU	LDO 0734 ON	30.128	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	30.204	4859MODE CODE 2 IND
S18		MDI 2187 OFF	30.530	2596TCS PULSE OK
		MDI 2187 ON	30.996	2596TCS PULSE OK
	IU	LDO 0734 ON	31.008	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	31.056	4859MODE CODE 2 IND
	IU	LDO 0734 ON	31.268	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	31.312	4859MODE CODE 2 IND
	IU	LDO 0734 ON	31.344	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	31.500	4859MODE CODE 2 IND
S18		MDI 2187 OFF	31.624	2596TCS PULSE OK
	IU	LDO 0734 ON	31.780	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	31.812	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	31.888	4859MODE CODE 2 IND
S18		MDI 2187 ON	31.996	2596TCS PULSE OK
S18		MDI 2187 OFF	32.624	2596TCS PULSE OK
	IU	LDO 0734 ON	32.760	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	32.800	4859MODE CODE 2 IND
S18		MDI 2187 ON	32.996	2596TCS PULSE OK
	IU	LDO 0734 ON	32.996	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	33.012	4859MODE CODE 2 IND
	IU	LDO 0734 ON	33.060	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	33.220	4859MODE CODE 2 IND
	IU	LDO 0734 ON	33.228	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	33.504	4859MODE CODE 2 IND
	IU	LDO 0734 ON	33.536	4859MODE CODE 2 IND
S18		MDI 2187 OFF	33.624	2596TCS PULSE OK
	IU	LDO 0734 OFF	33.652	4859MODE CODE 2 IND
S18		MDI 2187 ON	33.996	2596TCS PULSE OK
	IU	LDO 0734 ON	34.484	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	34.524	4859MODE CODE 2 IND
S18		MDI 2187 OFF	34.624	2596TCS PULSE OK
	IU	LDO 0734 ON	34.720	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	34.732	4859MODE CODE 2 IND
	IU	LDO 0734 ON	34.772	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	34.936	4859MODE CODE 2 IND
S18		MDI 2187 ON	34.996	2596TCS PULSE OK
	IU	LDO 0734 OFF	35.264	4859MODE CODE 2 IND
	IU	LDO 0734 ON	35.268	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	35.372	4859MODE CODE 2 IND
S18		MDI 2187 OFF	35.624	2596TCS PULSE OK

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S18		MDI 2187 ON	35.996	2596TCS PULSE OK
	IU	LDO 0734 ON	36.200	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	36.244	4859MODE CODE 2 IND
	IU	LDO 0734 ON	36.420	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	36.432	4859MODE CODE 2 IND
	IU	LDO 0734 ON	36.484	4859MODE CODE 2 IND
S18		MDI 2187 OFF	36.624	2596TCS PULSE OK
	IU	LDO 0734 OFF	36.660	4859MODE CODE 2 IND
	IU	LDO 0734 ON	36.668	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	36.976	4859MODE CODE 2 IND
S18		MDI 2187 ON	36.996	2596TCS PULSE OK
	IU	LDO 0734 ON	37.016	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	37.096	4859MODE CODE 2 IND
S18		MDI 2187 OFF	37.624	2596TCS PULSE OK
	IU	LDO 0734 ON	37.920	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	37.960	4859MODE CODE 2 IND
S18		MDI 2187 ON	37.996	2596TCS PULSE OK
	IU	LDO 0734 ON	38.144	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	38.156	4859MODE CODE 2 IND
	IU	LDO 0734 ON	38.216	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	38.412	4859MODE CODE 2 IND
	IU	LDO 0734 ON	38.420	4859MODE CODE 2 IND
S18		MDI 2187 OFF	38.624	2596TCS PULSE OK
	IU	LDO 0734 OFF	38.704	4859MODE CODE 2 IND
	IU	LDO 0734 ON	38.740	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	38.812	4859MODE CODE 2 IND
S18		MDI 2187 ON	38.996	2596TCS PULSE OK
S18		MDI 2187 OFF	39.624	2596TCS PULSE OK
	IU	LDO 0734 ON	39.640	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	39.684	4859MODE CODE 2 IND
	IU	LDO 0734 ON	39.860	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	39.872	4859MODE CODE 2 IND
	IU	LDO 0734 ON	39.924	4859MODE CODE 2 IND
S18		MDI 2187 ON	39.996	2596TCS PULSE OK
	IU	LDO 0734 OFF	40.140	4859MODE CODE 2 IND
	IU	LDO 0734 ON	40.148	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	40.416	4859MODE CODE 2 IND
	IU	LDO 0734 ON	40.452	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	40.532	4859MODE CODE 2 IND
S18		MDI 2187 OFF	40.624	2596TCS PULSE OK
S18		MDI 2187 ON	40.996	2596TCS PULSE OK
	IU	LDO 0734 ON	41.340	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	41.384	4859MODE CODE 2 IND
	IU	LDO 0734 ON	41.568	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	41.608	4859MODE CODE 2 IND
S18		MDI 2187 OFF	41.624	2596TCS PULSE OK

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	IU	LDO 0734 ON	41.672	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	41.832	4859MODE CODE 2	IND
	IU	LDO 0734 ON	41.840	4859MODE CODE 2	IND
S17		MDI 2187 ON	41.996	2596TCS PULSE	OK
	IU	LDO 0734 OFF	42.112	4859MODE CODE 2	IND
	IU	LDO 0734 ON	42.148	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	42.228	4859MODE CODE 2	IND
S17		MDI 2187 OFF	42.624	2596TCS PULSE	OK
S17		MDI 2187 ON	42.996	2596TCS PULSE	OK
	IU	LDO 0734 ON	43.040	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	43.088	4859MODE CODE 2	IND
	IU	LDO 0734 ON	43.288	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	43.304	4859MODE CODE 2	IND
	IU	LDO 0734 ON	43.352	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	43.520	4859MODE CODE 2	IND
	IU	LDO 0734 ON	43.556	4859MODE CODE 2	IND
S18		MDI 2187 OFF	43.624	2596TCS PULSE	OK
	IU	LDO 0734 OFF	43.832	4859MODE CODE 2	IND
	IU	LDO 0734 ON	43.836	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	43.928	4859MODE CODE 2	IND
S18		MDI 2187 ON	43.996	2596TCS PULSE	OK
S18		MDI 2187 OFF	44.624	2596TCS PULSE	OK
	IU	LDO 0734 ON	44.748	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	44.792	4859MODE CODE 2	IND
S18		MDI 2187 ON	44.996	2596TCS PULSE	OK
	IU	LDO 0734 ON	45.000	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	45.040	4859MODE CODE 2	IND
	IU	LDO 0734 ON	45.108	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	45.244	4859MODE CODE 2	IND
	IU	LDO 0734 ON	45.252	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	45.528	4859MODE CODE 2	IND
	IU	LDO 0734 ON	45.560	4859MODE CODE 2	IND
S18		MDI 2187 OFF	45.624	2596TCS PULSE	OK
	IU	LDO 0734 OFF	45.680	4859MODE CODE 2	IND
S18		MDI 2187 ON	45.996	2596TCS PULSE	OK
	IU	LDO 0734 ON	46.568	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	46.552	4859MODE CODE 2	IND
S18		MDI 2187 OFF	46.624	2596TCS PULSE	OK
	IU	LDO 0734 ON	46.728	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	46.740	4859MODE CODE 2	IND
	IU	LDO 0734 ON	46.792	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	46.968	4859MODE CODE 2	IND
	IU	LDO 0734 ON	46.972	4859MODE CODE 2	IND
S18		MDI 2187 ON	46.996	2596TCS PULSE	OK
	IU	LDO 0734 OFF	47.284	4859MODE CODE 2	IND
	IU	LDO 0734 ON	47.320	4859MODE CODE 2	IND

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	IU	LDO 0734 OFF 47.400 4859MODE CODE 2 IND
S18		MDI 2187 OFF 47.624 2596TCS PULSE OK
S18		MDI 2187 ON 47.996 2596TCS PULSE OK
	IU	LDO 0734 ON 48.228 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.272 4859MODE CODE 2 IND
	IU	LDO 0734 ON 48.448 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.460 4859MODE CODE 2 IND
	IU	LDO 0734 ON 48.512 4859MODE CODE 2 IND
S18		MDI 2187 OFF 48.624 2596TCS PULSE OK
	IU	LDO 0734 OFF 48.664 4859MODE CODE 2 IND
	IU	LDO 0734 ON 48.716 4859MODE CODE 2 IND
S18		MDI 2187 ON 48.996 2596TCS PULSE OK
	IU	LDO 0734 OFF 49.004 4859MODE CODE 2 IND
	IU	LDO 0734 ON 49.040 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 49.128 4859MODE CODE 2 IND
S18		MDI 2187 OFF 49.128 2596TCS PULSE OK
	IU	LDO 0734 ON 49.948 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 49.992 4859MODE CODE 2 IND
S18		MDI 2187 ON 49.996 2596TCS PULSE OK
	IU	LDO 0734 ON 50.176 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 50.188 4859MODE CODE 2 IND
	IU	LDO 0734 ON 50.240 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 50.408 4859MODE CODE 2 IND
	IU	LDO 0734 ON 50.412 4859MODE CODE 2 IND
S18		MDI 2187 OFF 50.624 2596TCS PULSE OK
	IU	LDO 0734 OFF 50.728 4859MODE CODE 2 IND
	IU	LDO 0734 ON 50.764 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 50.836 4859MODE CODE 2 IND
S18		MDI 2187 ON 50.996 2596TCS PULSE OK
S18		MDI 2187 OFF 51.624 2596TCS PULSE OK
	IU	LDO 0734 ON 51.680 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 51.696 4859MODE CODE 2 IND
	IU	LDO 0734 ON 51.888 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 51.900 4859MODE CODE 2 IND
	IU	LDO 0734 ON 51.952 4859MODE CODE 2 IND
S18		MDI 2187 ON 51.996 2596TCS PULSE OK
	IU	LDO 0734 OFF 52.160 4859MODE CODE 2 IND
	IU	LDO 0734 ON 52.168 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 52.448 4859MODE CODE 2 IND
	IU	LDO 0734 ON 52.484 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 52.560 4859MODE CODE 2 IND
S18		MDI 2187 OFF 52.624 2596TCS PULSE OK
S18		MDI 2187 ON 52.996 2596TCS PULSE OK
	IU	LDO 0734 ON 53.388 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 53.432 4859MODE CODE 2 IND
	IU	LDO 0734 ON 53.608 4859MODE CODE 2 IND

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	IU	LDO 0734 OFF	53.620	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	53.624	2596TCS PULSE OK
	IU	LDO 0734 ON	53.716	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	53.884	4859MODE CODE 2 IND
	IU	LDO 0734 ON	53.892	4859MODE CODE 2 IND
S1B		MDI 2187 ON	53.996	2596TCS PULSE OK
	IU	LDO 0734 OFF	54.168	4859MODE CODE 2 IND
	IU	LDO 0734 ON	54.204	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	54.260	4859MODE CODE 2 IND
S1B	IU	MDI 2305 ON	54.532	3765S-IVB STAGE SEL
	IU	LDI 1091 ON	54.540	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	54.540	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	54.540	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	54.540	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	54.540	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	54.540	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	54.540	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	54.540	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	54.540	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	54.540	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	54.540	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	54.540	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	54.540	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	54.540	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	54.540	5164VXK0005-603
S1B		DDA 2093 ON	54.540	5166VXK0008-603
S1B		DDA 2094 ON	54.540	5167VXK0008-603
S1B		DDA 2096 ON	54.540	5169VXK0008-603
S1B		DDA 2098 ON	54.540	5171VXK0008-603
S1B		DDA 2099 ON	54.540	5172VXK0008-603
	IU	LDI 1090 ON	54.548	0505BIT NO 1 VERIFY
	IU	LDI 1093 ON	54.548	0508BIT NO 4 VERIFY
S1B		DDA 2095 ON	54.548	5168VXK0008-603
S1B		DDA 2100 ON	54.548	5173VXK0008-603
	IU	LDI 1095 ON	54.552	0510BIT NO 6 VERIFY
S1B	IU	MDI 2305 OFF	54.584	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	54.584	3767RESET COMMAND
S1B S4B	IU	-2- 000 RESET	54.584	
S1B		DDA 2084 ON	54.588	5160VXK0007-603
	IU	LDI 1091 OFF	54.592	0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF	54.592	0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON	54.592	0517RESET COMMAND
	IU	MDI 0816 ON	54.592	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	54.592	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	54.592	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	54.592	3519REG CONT BIT 4 VERIFY IN

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	IU	MDI 0820 ON	54.592	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	54.592	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	54.592	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	54.592	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF	54.592	5164VXK0005-603
S1B		DDA 2098 OFF	54.592	5171VXK0008-603
S1B		DDA 2099 OFF	54.592	5172VXK0008-603
S1B		DDA 2100 OFF	54.592	5173VXK0008-603
	IU	LDI 1090 OFF	54.596	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	54.596	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	54.596	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	54.596	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	54.596	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	54.596	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	54.596	0512BIT NO 8 VERIFY
S1B		DDA 2094 OFF	54.596	5167VXK0008-603
S1B		DDA 2095 OFF	54.596	5168VXK0008-603
S1B		DDA 2096 OFF	54.596	5169VXK0008-603
S1B	IU	MDI 2305 ON	54.612	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	54.612	3767RESET COMMAND
	IU	LDI 1099 ON	54.616	0514S-IVB STAGE SELECTOR
S1B		DDA 2088 ON	54.616	5164VXK0005-603
S1B		MDI 2187 OFF	54.624	2596TCS PULSE OK
	IU	MDI 0816 OFF	54.624	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	54.624	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	54.624	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	54.624	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	54.624	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	54.624	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	54.624	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	54.624	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	54.624	3928SW SEL ZERO
	IU	LDI 1103 OFF	54.628	0517RESET COMMAND
	IU	MDI 0816 ON	54.628	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	54.628	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	54.628	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	54.628	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	54.628	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	54.628	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	54.628	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF	54.628	5160VXK0007-603
	IU	LDI 1091 ON	54.632	0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF	54.632	5172VXK0008-603
S1B	IU	MDI 2308 ON	54.652	3768READ COMMAND
S1B S4B	IU	-2- 375 PEAD	54.652	

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	IU	LDI 0983 ON	54.656	0463SW SEL READ
	IU	LDI 1102 ON	54.656	0516SW SEL READ
S4B		MDI 1677 OFF	54.656	3069MRCV RELAYS RESET
S1B		DDA 2085 ON	54.656	5161VXK0006-603
S1B		DDA 2029 ON	54.660	4080VK0128-404
S1B	IU	MDI 2305 OFF	54.688	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	54.688	3768READ COMMAND
	S4B	MDI 1844 ON	54.696	3928SW SEL ZERO
	S4B	LDO 1844 OFF	54.696	4535SW SEL ZERO
	IU	LDI 0983 OFF	54.700	0463SW SEL READ
	IU	LDI 1099 OFF	54.700	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	54.700	0516SW SEL READ
	IU	MDI 0817 ON	54.700	3517REG CONT BIT 2 VERIFY IN
S1B		DDA 2085 OFF	54.700	5161VXK0006-603
S1B		DDA 2088 OFF	54.700	5164VXK0005-603
S1B		DDA 2029 OFF	54.704	4080VK0128-404
	IU	LDI 1091 OFF	54.708	0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF	54.708	5172VXK0008-603
S1B	IU	MDI 2305 ON	54.716	3765S-IVB STAGE SEL
	IU	MDI 0817 OFF	54.720	3517REG CONT BIT 2 VERIFY IN
	S4B	MDI 1844 OFF	54.720	3928SW SEL ZERO
	IU	LDI 1091 ON	54.724	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	54.724	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	54.724	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	54.724	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	54.724	0514S-IVB STAGE SELECTOR
	IU	MDI 0820 OFF	54.724	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	54.724	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	54.724	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	54.724	5164VXK0005-603
S1B		DDA 2093 ON	54.724	5166VXK0008-603
S1B		DDA 2095 ON	54.724	5168VXK0008-603
S1B		DDA 2096 ON	54.724	5169VXK0008-603
S1B		DDA 2099 ON	54.724	5172VXK0008-603
S1B	IU	MDI 2305 OFF	54.744	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	54.744	3767RESET COMMAND
S1B S4B	IU	-2- 115 RESET	54.744	
	IU	LDI 1103 ON	54.748	0517RESET COMMAND
	S4B	MDI 1844 ON	54.748	3928SW SEL ZERO
S1B		DDA 2084 ON	54.748	5160VXK0007-603
	IU	MDI 0817 ON	54.752	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	54.752	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	54.752	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	54.752	3523REG CONT BIT 8 VERIFY IN
	S4B	LDO 1677 OFF	54.752	4752MRCV RELAYS RESET
	IU	LDI 1091 OFF	54.760	0506BIT NO 2 VERIFY

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	IU	LDI 1097	OFF	54.760	0512BIT NO 8 VERIFY
	IU	LDI 1099	OFF	54.760	0514S-IVB STAGE SELECTOR
S1B	IU	MDI 2305	ON	54.760	3765S-IVB STAGE SEL
S1B	IU	MDI 2307	OFF	54.760	3767RESET COMMAND
S1B		DDA 2088	OFF	54.760	5164VXK0005-603
S1B		DDA 2093	OFF	54.760	5166VXK0008-603
S1B		DDA 2095	OFF	54.760	5168VXK0008-603
S1B		DDA 2096	OFF	54.760	5169VXK0008-603
S1B		DDA 2099	OFF	54.760	5172VXK0008-603
	IU	LDI 1094	OFF	54.764	0509BIT NO 5 VERIFY
	IU	LDI 1095	OFF	54.764	0510BIT NO 6 VERIFY
	IU	LDI 1099	ON	54.764	0514S-IVB STAGE SELECTOR
S1B		DDA 2088	ON	54.764	5164VXK0005-603
S4B		MDI 1844	OFF	54.772	3928SW SEL ZERO
	IU	LDI 1103	OFF	54.776	0517RESET COMMAND
	IU	MDI 0816	OFF	54.776	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	OFF	54.776	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	54.776	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	54.776	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822	OFF	54.776	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2084	OFF	54.776	5160VXK0007-603
S1B		DDA 2094	ON	54.780	5167VXK0008-603
S1B		DDA 2098	ON	54.780	5171VXK0008-603
S1B		DDA 2099	ON	54.780	5172VXK0008-603
S1B		DDA 2100	ON	54.780	5173VXK0008-603
	IU	LDI 1090	ON	54.784	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	54.784	0506BIT NO 2 VERIFY
	IU	LDI 1092	ON	54.784	0507BIT NO 3 VERIFY
	IU	LDI 1093	ON	54.784	0508BIT NO 4 VERIFY
	IU	LDI 1096	ON	54.784	0511BIT NO 7 VERIFY
S4B		LDO 1844	ON	54.800	4535SW SEL ZERO
S4B		LDO 1844	OFF	54.812	4535SW SEL ZERO
S1B	IU	MDI 2308	ON	54.848	3768READ COMMAND
S1B S4B	IU	-2- 260	READ	54.848	
S4B		LDO 1844	ON	54.848	4535SW SEL ZERO
	IU	LDI 0983	ON	54.856	0463SW SEL READ
	IU	LDI 1102	ON	54.856	0516SW SEL READ
S1B		DDA 2088	ON	54.860	5164VXK0005-603
S1B		DDA 2029	ON	54.860	4080VK0128-404
S4B		LDO 1844	OFF	54.860	4535SW SEL ZERO
S1B	IU	MDI 2305	OFF	54.880	3765S-IVB STAGE SEL
S1B	IU	MDI 2308	OFF	54.880	3768READ COMMAND
S4B		MDI 1844	ON	54.888	3928SW SEL ZERO
	IU	LDI 1093	OFF	54.892	0508BIT NO 4 VERIFY
	IU	LDI 1099	OFF	54.892	0514S-IVB STAGE SELECTOR
	IU	LDI 1102	OFF	54.892	0516SW SEL READ

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	IU	MDI 0816 ON	54.892	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	54.892	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	54.892	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	54.892	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	54.892	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2085 OFF	54.892	5161VXK0006-603
S1B		DDA 2088 OFF	54.892	5164VXK0005-603
S1B		DDA 2029 OFF	54.896	4080VXK0128-404
	IU	LDI 1091 OFF	54.900	0506BIT NO 2 VERIFY
S1B		DDA 2098 OFF	54.900	5171VXK0008-603
S1B		DDA 2099 OFF	54.900	5172VXK0008-603
	IU	LDI 1090 OFF	54.904	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	54.904	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	54.904	0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF	54.904	0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF	54.904	5167VXK0008-603
S1B		DDA 2100 OFF	54.904	5173VXK0008-603
S4B		LDO 1844 ON	54.932	4535SW SEL ZERO
S1B		MDI 2187 ON	54.996	2596TCS PULSE OK
	IU	LDO 0734 ON	55.376	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	55.416	4859MODE CODE 2 IND
	IU	LDO 0734 ON	55.600	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	55.624	2596TCS PULSE OK
	IU	LDO 0734 OFF	55.640	4859MODE CODE 2 IND
	IU	LDO 0734 ON	55.676	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	55.800	4859MODE CODE 2 IND
	IU	LDO 0734 ON	55.836	4859MODE CODE 2 IND
S1B		MDI 2187 ON	55.996	2596TCS PULSE OK
	IU	LDO 0734 OFF	56.156	4859MODE CODE 2 IND
	IU	LDO 0734 ON	56.164	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	56.240	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	56.624	2596TCS PULSE OK
S1B		MDI 2187 ON	56.996	2596TCS PULSE OK
S1B	IU	MDI 2306 ON	57.040	3766IU STAGE SEL
	IU	LDI 1091 ON	57.048	0506BIT NO 2 VERIFY
	IU	LDI 1098 ON	57.048	0513BIT NO 3 VERIFY
	IU	LDI 1098 ON	57.048	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	57.048	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	57.048	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	57.048	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	57.048	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	57.048	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	57.048	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	57.048	5162VXK0003-603
S1B		DDA 2087 ON	57.048	5163VXK0005-603
S1B		DDA 2096 ON	57.048	5169VXK0008-603

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S1B		DDA 2099 ON	57.048	5172VXK0008-603
	IU	LDI 1093 ON	57.056	0508BIT NO 4 VERIFY
	IU	LDI 1097 ON	57.056	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	57.056	5166VXK0008-603
S1B		DDA 2095 ON	57.056	5168VXK0008-603
	IU	LDI 1095 ON	57.060	0510BIT NO 6 VERIFY
S1B	IU	MDI 2308 ON	57.072	3768READ COMMAND
S1B S4B	IU	-3- 105 READ	57.072	
S1B		DDA 2149 ON	57.080	4134VK0004-603
(1)		DDA 2088 ON	57.080	5161VXK0006-603
	IU	LDI 0983 ON	57.084	0463SW SEL READ
	IU	LDI 1102 ON	57.084	0516SW SEL READ
S1B		DDA 2080 ON	57.088	4114VXG0005-601
S1B	IU	MDI 2306 OFF	57.108	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	57.108	3768READ COMMAND
	IU	LDI 0983 OFF	57.116	0463SW SEL READ
	IU	LDI 1098 OFF	57.116	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	57.116	0516SW SEL READ
S1B		DDA 2085 OFF	57.116	5161VXK0006-603
S1B		DDA 2087 OFF	57.116	5163VXK0007-603
	IU	LDI 1091 OFF	57.124	0506BIT NO 2 VERIFY
	IU	MDI 0782 ON	57.124	3482SW SEL ZERO IND
	IU	MDI 0817 ON	57.124	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	57.124	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	57.124	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	57.124	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	57.124	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 ON	57.124	5162VXK0003-603
S1B		DDA 2099 OFF	57.124	5172VXK0008-603
	IU	LDI 1093 OFF	57.128	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	57.128	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	57.128	0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF	57.128	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	57.128	5166VXK0008-603
S1B		DDA 2095 OFF	57.128	5168VXK0008-603
S1B		DDA 2096 OFF	57.128	5169VXK0008-603
S1B		DDA 2097 OFF	57.128	5170VXK0009-603
	IU	LDO 0734 ON	57.204	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	57.244	4859MODE CODE 2 IND
	IU	LDO 0734 ON	57.440	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	57.480	4859MODE CODE 2 IND
	IU	LDO 0734 ON	57.516	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	57.624	2596TCS PULSE OK
	IU	LDO 0734 OFF	57.624	4859MODE CODE 2 IND
	IU	LDO 0734 ON	57.660	4859MODE CODE 2 IND

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	IU	LDO 0734 OFF	57.984	4859MODE CODE 2	IND
	IU	LDO 0734 ON	57.992	4859MODE CODE 2	IND
S1B		MDI 2187 ON	57.996	2596TCS PULSE	OK
	IU	LDO 0734 OFF	58.100	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	58.624	2596TCS PULSE	OK
	IU	LDO 0734 ON	58.904	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	58.944	4859MODE CODE 2	IND
S1B		MDI 2187 ON	58.996	2596TCS PULSE	OK
	IU	LDO 0734 ON	59.124	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	59.164	4859MODE CODE 2	IND
	IU	LDO 0734 ON	59.200	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	59.240	4859MODE CODE 2	IND
	IU	LDO 0734 ON	59.400	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	59.624	2596TCS PULSE	OK
	IU	LDO 0734 OFF	59.684	4859MODE CODE 2	IND
	IU	LDO 0734 ON	59.696	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	59.792	4859MODE CODE 2	IND
S1B		MDI 2187 ON	59.996	2596TCS PULSE	OK
S1B S4B	IU	CDC 00 08			
	IU	LDO 0734 ON	00.620	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	00.624	2596TCS PULSE	OK
	IU	LDO 0734 OFF	00.664	4859MODE CODE 2	IND
S1B		LDO 0400 ON	00.812	4297TIME BASE 3	ENABLE
	IU	LDO 0734 ON	00.840	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	00.880	4859MODE CODE 2	IND
	IU	LDO 0734 ON	00.916	4859MODE CODE 2	IND
S1B		MDI 2187 ON	00.996	2596TCS PULSE	OK
	IU	LDO 0734 OFF	01.088	4859MODE CODE 2	IND
	IU	LDO 0734 ON	01.092	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	01.132	4859MODE CODE 2	IND
	IU	LDO 0734 ON	01.400	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	01.484	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	01.624	2596TCS PULSE	OK
S1B		MDI 2187 ON	01.996	2596TCS PULSE	OK
	IU	LDO 0734 ON	02.312	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	02.352	4859MODE CODE 2	IND
	IU	LDO 0734 ON	02.536	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	02.580	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	02.624	2596TCS PULSE	OK
	IU	LDO 0734 ON	02.644	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	02.764	4859MODE CODE 2	IND
	IU	LDO 0734 ON	02.800	4859MODE CODE 2	IND
S1B		MDI 2187 ON	02.996	2596TCS PULSE	OK
	IU	LDO 0734 OFF	03.092	4859MODE CODE 2	IND
	IU	LDO 0734 ON	03.100	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	03.196	4859MODE CODE 2	IND

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S1B		MDI 2187 OFF 03.624 2596TCS PULSE OK
S1B		MDI 2187 ON 03.996 2596TCS PULSE OK
	IU	LDO 0734 ON 04.000 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 04.052 4859MODE CODE 2 IND
	IU	LDO 0734 ON 04.252 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 04.304 4859MODE CODE 2 IND
	IU	LDO 0734 ON 04.332 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 04.456 4859MODE CODE 2 IND
	IU	LDO 0734 ON 04.492 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 04.624 2596TCS PULSE OK
	IU	LDO 0734 OFF 04.780 4859MODE CODE 2 IND
	IU	LDO 0734 ON 04.784 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 04.884 4859MODE CODE 2 IND
S1B		MDI 2187 ON 04.996 2596TCS PULSE OK
S1B		MDI 2187 OFF 05.624 2596TCS PULSE OK
	IU	LDO 0734 ON 05.704 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 05.744 4859MODE CODE 2 IND
	IU	LDO 0734 ON 05.948 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 05.988 4859MODE CODE 2 IND
S1B		MDI 2187 ON 06.000 2596TCS PULSE OK
	IU	LDO 0734 ON 06.020 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 06.152 4859MODE CODE 2 IND
	IU	LDO 0734 ON 06.160 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 06.460 4859MODE CODE 2 IND
	IU	LDO 0734 ON 06.468 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 06.552 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 06.624 2596TCS PULSE OK
S1B		MDI 2187 ON 06.996 2596TCS PULSE OK
	IU	LDO 0734 ON 07.360 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 07.424 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 07.624 2596TCS PULSE OK
	IU	LDO 0734 ON 07.660 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 07.700 4859MODE CODE 2 IND
	IU	LDO 0734 ON 07.736 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 07.864 4859MODE CODE 2 IND
	IU	LDO 0734 ON 07.868 4859MODE CODE 2 IND
S1B		MDI 2187 ON 07.996 2596TCS PULSE OK
	IU	LDO 0734 OFF 08.152 4859MODE CODE 2 IND
	IU	LDO 0734 ON 08.184 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 08.300 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 08.624 2596TCS PULSE OK
S1B		MDI 2187 ON 08.996 2596TCS PULSE OK
	IU	LDO 0734 ON 09.136 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 09.176 4859MODE CODE 2 IND
	IU	LDO 0734 ON 09.372 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 09.412 4859MODE CODE 2 IND

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	IU	LDO 0734 ON	09.448	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	09.556	4859MODE CODE 2	IND
	IU	LDO 0734 ON	09.564	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	09.624	2596TCS PULSE	OK
	IU	LDO 0734 OFF	09.908	4859MODE CODE 2	IND
	IU	LDO 0734 ON	09.916	4859MODE CODE 2	IND
S1B		MDI 2187 ON	09.996	2596TCS PULSE	OK
	IU	LDO 0734 OFF	09.996	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	10.624	2596TCS PULSE	OK
	IU	LDO 0734 ON	10.824	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	10.864	4859MODE CODE 2	IND
S1B		MDI 2187 ON	10.996	2596TCS PULSE	OK
	IU	LDO 0734 ON	11.048	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	11.092	4859MODE CODE 2	IND
	IU	LDO 0734 ON	11.128	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	11.268	4859MODE CODE 2	IND
	IU	LDO 0734 ON	11.272	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	11.600	4859MODE CODE 2	IND
	IU	LDO 0734 ON	11.604	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	11.624	2596TCS PULSE	OK
	IU	LDO 0734 OFF	11.716	4859MODE CODE 2	IND
S1B		MDI 2187 ON	11.996	2596TCS PULSE	OK
	IU	LDO 0734 ON	12.520	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.560	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	12.624	2596TCS PULSE	OK
	IU	LDO 0734 ON	12.756	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.796	4859MODE CODE 2	IND
	IU	LDO 0734 ON	12.832	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	12.960	4859MODE CODE 2	IND
	IU	LDO 0734 ON	12.964	4859MODE CODE 2	IND
S1B		MDI 2187 ON	12.996	2596TCS PULSE	OK
	IU	LDO 0734 OFF	13.292	4859MODE CODE 2	IND
	IU	LDO 0734 ON	13.300	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	13.404	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	13.624	2596TCS PULSE	OK
S1B		MDI 2187 ON	13.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	14.232	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.272	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.448	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	14.492	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.528	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	14.624	2596TCS PULSE	OK
	IU	LDO 0734 OFF	14.700	4859MODE CODE 2	IND
	IU	LDO 0734 ON	14.736	4859MODE CODE 2	IND
S1B		MDI 2187 ON	14.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	15.004	4859MODE CODE 2	IND

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	IU	LDO 0734 ON	15.012	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	15.100	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	15.624	2596TCS PULSE	OK
	IU	LDO 0734 ON	15.924	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	15.968	4859MODE CODE 2	IND
S1B		MDI 2187 ON	15.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	16.152	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	16.192	4859MODE CODE 2	IND
	IU	LDO 0734 ON	16.224	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	16.388	4859MODE CODE 2	IND
	IU	LDO 0734 ON	16.396	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	16.424	2596TCS PULSE	OK
	IU	LDO 0734 OFF	16.704	4859MODE CODE 2	IND
	IU	LDO 0734 ON	16.708	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	16.784	4859MODE CODE 2	IND
S1B		MDI 2187 ON	16.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	17.608	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	17.624	2596TCS PULSE	OK
	IU	LDO 0734 OFF	17.652	4859MODE CODE 2	IND
	IU	LDO 0734 ON	17.828	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	17.868	4859MODE CODE 2	IND
	IU	LDO 0734 ON	17.928	4859MODE CODE 2	IND
S1B		MDI 2187 ON	17.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	18.076	4859MODE CODE 2	IND
	IU	LDO 0734 ON	18.084	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	18.380	4859MODE CODE 2	IND
	IU	LDO 0734 ON	18.388	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	18.472	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	18.624	2596TCS PULSE	OK
S1B		MDI 2187 ON	18.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	19.304	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	19.344	4859MODE CODE 2	IND
	IU	LDO 0734 ON	19.548	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	19.588	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	19.624	2596TCS PULSE	OK
	IU	LDO 0734 ON	19.628	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	19.752	4859MODE CODE 2	IND
	IU	LDO 0734 ON	19.788	4859MODE CODE 2	IND
S1B		MDI 2187 ON	19.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	20.080	4859MODE CODE 2	IND
	IU	LDO 0734 ON	20.088	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	20.164	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	20.624	2596TCS PULSE	OK
S1B		MDI 2187 ON	20.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	20.992	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	21.048	4859MODE CODE 2	IND

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	IU	LDO 0734 ON	21.248	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	21.288	4859MODE CODE 2 IND
	IU	LDO 0734 ON	21.324	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	21.444	4859MODE CODE 2 IND
	IU	LDO 0734 ON	21.480	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	21.624	2596TCS PULSE 0
	IU	LDO 0734 OFF	21.768	4859MODE CODE 2 IND
	IU	LDO 0734 ON	21.772	4859MODE CODE 2 IND
S1B	IU	MDI 2306 ON	21.796	3766IU STAGE SEL
	IU	MDI 0782 OFF	21.804	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	21.804	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	21.804	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	21.804	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	21.804	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	21.804	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	21.804	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	21.804	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 ON	21.804	5163VXK0005-603
	IU	LDI 1090 ON	21.812	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	21.812	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	21.812	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	21.812	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	21.812	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	21.812	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	21.812	0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF	21.812	5162VXK0003-603
S1B		DDA 2093 ON	21.812	5165VXK0006-603
S1B		DDA 2094 ON	21.812	5167VXK0008-603
S1B		DDA 2095 ON	21.812	5168VXK0009-603
S1B		DDA 2098 ON	21.812	5171VXK0008-603
S1B		DDA 2099 ON	21.812	5172VXK0008-603
S1B		DDA 2100 ON	21.812	5173VXK0008-603
S1B	IU	MDI 2306 OFF	21.828	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	21.828	3767RESET COMMAND
S1B S4B	IU	-3- 040 RESET	21.828	
	IU	LDI 1103 ON	21.836	0517RESET COMMAND
	IU	MDI 0782 ON	21.836	3482SW SEL ZERO IND
	IU	MDI 0816 ON	21.836	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	21.836	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	21.836	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	21.836	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	21.836	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	21.836	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	21.836	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	21.836	5160VXK0007-603

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S1B		DDA 2086 ON	21.836	5162VXK0003-603
S1B		DDA 2087 OFF	21.836	5163VXK0005-603
S1B		DDA 2099 OFF	21.836	5172VXK0008-603
	IU	LDI 1090 OFF	21.840	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	21.840	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	21.840	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	21.840	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	21.840	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	21.840	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	21.840	0512BIT NO 8 VERIFY
	IU	LDI 1098 OFF	21.840	0513IU STAGE SELECTOR
S1B	IU	MDI 2306 ON	21.840	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	21.840	3767RESET COMMAND
S1B		DDA 2093 OFF	21.840	5166VXK0008-603
S1B		DDA 2094 OFF	21.840	5167VXK0008-603
S1B		DDA 2098 OFF	21.840	5171VXK0008-603
S1B		DDA 2099 OFF	21.840	5172VXK0008-603
	IU	LDI 1098 ON	21.852	0513IU STAGE SELECTOR
	IU	MDI 0816 OFF	21.852	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	21.852	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	21.852	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	21.852	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	21.852	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	21.852	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	21.852	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 OFF	21.852	5163VXK0005-603
	IU	LDI 1103 OFF	21.856	0517RESET COMMAND
	IU	MDI 0782 OFF	21.856	3482SW SEL ZERO IND
	IU	MDI 0816 ON	21.856	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	21.856	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	21.856	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	21.856	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	21.856	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	21.856	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	21.856	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF	21.856	5160VXK0007-603
S1B		DDA 2086 OFF	21.860	5162VXK0003-603
S1B		DDA 2095 ON	21.860	5166VXK0008-603
S1B		DDA 2099 ON	21.860	5172VXK0008-603
	IU	LDI 1091 ON	21.864	0506BIT NO 2 VERIFY
	IU	LDI 1095 ON	21.864	0510BIT NO 6 VERIFY
S1B	IU	MDI 2308 ON	21.956	3768READ COMMAND
S1B S4B	IU	-3- 335 READ	21.956	
	IU	LDI 0983 ON	21.960	0463SW SEL READ
	IU	LDI 1102 ON	21.960	0516SW SEL READ

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S17		DDA 2085 ON 21.960 5161VXK0006-603
S17		DDA 2149 ON 21.968 4134VK0004-603
	IU	LDO 0734 OFF 21.984 4859MODE CODE 2 IND
S17		MDI 2187 ON 21.992 2596TCS PULSE OK
S17	IU	MDI 2306 OFF 21.996 3766IU STAGE SEL
S17	IU	MDI 2311 OFF 21.998 3766IU STAGE SEL
	IU	LDI 0983 OFF 22.004 0463SW SEL READ
	IU	LDI 1098 OFF 22.004 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 22.004 0516SW SEL READ
S17		DDA 2085 OFF 22.004 5161VXK0006-603
S17		DDA 2087 OFF 22.004 5163VXK0005-603
	IU	MDI 0817 ON 22.008 3517REG CONT BIT 2 VERIFY IN
	IU	LDI 1091 OFF 22.012 0506BIT NO 2 VERIFY
	IU	MDI 0782 ON 22.012 3482SW SEL ZERO IND
	IU	MDI 0821 ON 22.012 3521REG CONT BIT 6 VERIFY IN
S17		DDA 2149 OFF 22.012 4134VK0004-603
S17		DDA 2086 OFF 22.012 5162VXK0003-603
S17		DDA 2099 OFF 22.012 5172VXK0008-603
	IU	LDI 1095 OFF 22.016 0510BIT NO 6 VERIFY
S17		DDA 2095 OFF 22.016 5166VXK0008-603
S17		DDA 0023 ON 22.104 5201VK0353-340
S17		MDI 2187 OFF 22.624 2596TCS PULSE OK
	IU	LDO 0734 ON 22.852 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 22.892 4859MODE CODE 2 IND
S17		MDI 2187 ON 22.992 2596TCS PULSE OK
	IU	LDO 0734 ON 23.088 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 23.128 4859MODE CODE 2 IND
	IU	LDO 0734 ON 23.164 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 23.206 4859MODE CODE 2 IND
	IU	LDO 0734 ON 23.304 4859MODE CODE 2 IND
S17		MDI 2187 OFF 23.624 2596TCS PULSE OK
	IU	LDO 0734 OFF 23.632 4859MODE CODE 2 IND
	IU	LDO 0734 ON 23.640 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 23.740 4859MODE CODE 2 IND
S18		MDI 2187 ON 23.992 2596TCS PULSE OK
	IU	LDO 0734 ON 24.584 4859MODE CODE 2 IND
S17		MDI 2187 OFF 24.624 2596TCS PULSE OK
	IU	LDO 0734 OFF 24.628 4859MODE CODE 2 IND
	IU	LDO 0734 ON 24.808 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 24.848 4859MODE CODE 2 IND
	IU	LDO 0734 ON 24.884 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 24.988 4859MODE CODE 2 IND
S17		MDI 2187 ON 24.992 2596TCS PULSE OK
	IU	LDO 0734 ON 25.028 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 25.352 4859MODE CODE 2 IND
	IU	LDO 0734 ON 25.360 4859MODE CODE 2 IND

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	IU	LDO 0734	OFF	25.460	4859MODE CODE 2 IND
S1B		MDI 2187	OFF	25.624	2596TCS PULSE OK
S1B		MDI 2187	ON	25.992	2596TCS PULSE OK
	IU	LDO 0734	ON	26.276	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	26.316	4859MODE CODE 2 IND
	IU	LDO 0734	ON	26.492	4859MODE CODE 2 IND
	IU	LDO 0734	OFF	26.532	4859MODE CODE 2 IND
	IU	LDO 0734	ON	26.568	4859MODE CODE 2 IND
S1B		MDI 2187	OFF	26.620	2596TCS PULSE OK
	IU	LDO 0734	OFF	26.732	4859MODE CODE 2 IND
	IU	LDO 0734	ON	26.764	4859MODE CODE 2 IND
S1B	IU	MDI 2306	ON	26.796	3766IU STAGE SEL
S1B		DDA 2087	0	26.800	5163VXK0005-603
	IU	LDI 1096	ON	26.804	0513IU STAGE SELECTOR
	IU	MDI 0782	OFF	26.804	3482SW SEL ZERO IND
	IU	MDI 0816	OFF	26.804	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	OFF	26.804	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	26.804	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	26.804	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	OFF	26.804	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	26.804	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	26.804	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093	ON	26.808	5166VXK0008-603
S1B		DDA 2094	0	26.808	5167VXK0008-603
	IU	LDI 1090	ON	26.812	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	26.812	0506BIT NO 2 VERIFY
	IU	LDI 1092	ON	26.812	0507BIT NO 3 VERIFY
	IU	LDI 1093	ON	26.812	0508BIT NO 4 VERIFY
	IU	LDI 1095	ON	26.812	0510BIT NO 6 VERIFY
	IU	LDI 1096	0	26.812	0511BIT NO 7 VERIFY
	IU	LDI 1097	ON	26.812	0512BIT NO 8 VERIFY
S1B		DDA 2086	OFF	26.812	5162VXK0003-603
S1B		DDA 2095	ON	26.812	5165VXK0008-603
S1B		DDA 2098	ON	26.812	5171VXK0008-603
S1B		DDA 2099	0	26.812	5172VXK0008-603
S1B		DDA 2100	ON	26.812	5173VXK0008-603
S1B	IU	MDI 2306	OFF	26.828	3766IU STAGE SEL
S1B	IU	MDI 2307	ON	26.828	3767RESET COMMAND
S1B S4B	IU	-3- 020	RESET	26.828	
	IU	LDI 1193	0	26.836	0517RESET COMMAND
	IU	MDI 0782	ON	26.836	3482SW SEL ZERO IND
	IU	MDI 0816	0	26.836	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	ON	26.836	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	ON	26.836	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	26.836	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	ON	26.836	3521REG CONT BIT 6 VERIFY IN

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	IU	MDI 0822 ON	26.836	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	26.836	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	26.836	5160VXK0007-603
S1B		DDA 2087 OFF	26.836	5163VXK0005-603
	IU	LDI 1098 OFF	26.840	0513IU STAGE SELECTOR
	IU	LDI 1091 OFF	26.844	0506BIT NO 2 VERIFY
S1B	IU	MDI 2306 ON	26.844	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	26.844	3767RESET COMMAND
S1B		DDA 2086 ON	26.844	5162VXK0003-603
S1B		DDA 2099 OFF	26.844	5172VXK0008-603
	IU	LDI 1090 OFF	26.848	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	26.848	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	26.848	0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF	26.848	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	26.848	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	26.848	5166VXK0007-603
S1B		DDA 2094 OFF	26.848	5167VXK0008-603
S1B		DDA 2095 OFF	26.848	5168VXK0009-603
S1B		DDA 2098 OFF	26.848	5171VXK0008-603
S1B		DDA 2100 OFF	26.848	5173VXK0008-603
	IU	LDI 1095 OFF	26.852	0510BIT NO 6 VERIFY
	IU	LDI 1098 ON	26.852	0513IU STAGE SELECTOR
S1B		DDA 2087 ON	26.852	5163VXK0005-603
	IU	LDI 1100 OFF	26.856	3482SW SEL ZERO IND
	IU	MDI 0782 OFF	26.856	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0816 OFF	26.856	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0817 OFF	26.856	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0818 OFF	26.856	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0819 OFF	26.856	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	26.856	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	26.856	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	26.856	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF	26.856	5160VXK0007-603
	IU	LDI 1091 ON	26.860	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	26.860	0509BIT NO 5 VERIFY
	IU	MDI 0816 ON	26.860	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	26.860	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	26.860	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	26.860	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	26.860	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	26.860	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	26.860	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	26.860	5162VXK0003-603
S1B		DDA 2096 ON	26.860	5169VXK0008-603
S1B		DDA 2099 ON	26.860	5172VXK0008-603
S1B	IU	MDI 2308 ON	26.960	3768READ COMMAND

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S1B	S4B	IU	-3-	355	READ	26.960
S1B				DDA 2149	ON	26.964 4134VK0004-603
		IU		LDI 0983	ON	26.968 0463SW SEL READ
		IU		LDI 1102	ON	26.968 0516SW SEL READ
S1B				DDA 2085	ON	26.968 5161VXK0006-603
S1B				MDI 2187	ON	26.992 2596TCS PULSE OK
S1B		IU		MDI 2306	OFF	27.000 3766IU STAGE SEL
S1B		IU		MDI 2306	OFF	27.000 3766IU STAGE SEL
		IU		LDO 0734	OFF	27.008 4859MODE CODE 2 IND
		IU		LDI 0983	OFF	27.012 0463SW SEL READ
		IU		LDI 1098	OFF	27.012 0513IU STAGE SELECTOR
		IU		LDI 1102	OFF	27.012 0516SW SEL READ
		IU		MDI 0782	ON	27.012 3482SW SEL ZERO IND
		IU		MDI 0817	ON	27.012 3517REG CONT BIT 2 VERIFY IN
		IU		MDI 0820	ON	27.012 3520REG CONT BIT 5 VERIFY IN
S1B				DDA 2085	OFF	27.012 5161VXK0006-603
S1B				DDA 2087	OFF	27.012 5163VXK0005-603
		IU		LDI 1091	OFF	27.020 0506BIT NO 2 VERIFY
S1B				DDA 2149	OFF	27.020 4134VK0004-603
S1B				DDA 2086	ON	27.020 5162VXK0003-603
S1B				DDA 2099	OFF	27.020 5172VXK0008-603
		IU		LDI 1094	OFF	27.024 0509BIT NO 5 VERIFY
S1B				DDA 2096	OFF	27.024 5169VXK0008-603
		IU		LDO 0734	ON	27.048 4859MODE CODE 2 IND
		IU		LDO 0734	OFF	27.184 4859MODE CODE 2 IND
		IU		LDO 0734	ON	27.192 4859MODE CODE 2 IND
		IU		LDO 0734	OFF	27.276 4859MODE CODE 2 IND
S1B				MDI 2187	OFF	27.620 2596TCS PULSE OK
S1B				MDI 2187	ON	27.992 2596TCS PULSE OK
		IU		LDO 0734	ON	28.108 4859MODE CODE 2 IND
		IU		LDO 0734	OFF	28.152 4859MODE CODE 2 IND
		IU		LDO 0734	ON	28.320 4859MODE CODE 2 IND
		IU		LDO 0734	OFF	28.360 4859MODE CODE 2 IND
		IU		LDO 0734	ON	28.424 4859MODE CODE 2 IND
		IU		LDO 0734	OFF	28.564 4859MODE CODE 2 IND
		IU		LDO 0734	ON	28.596 4859MODE CODE 2 IND
S1B				MDI 2187	OFF	28.620 2596TCS PULSE OK
		IU		LDO 0734	OFF	28.880 4859MODE CODE 2 IND
		IU		LDO 0734	ON	28.916 4859MODE CODE 2 IND
S1B				MDI 2187	ON	28.992 2596TCS PULSE OK
		IU		LDO 0734	OFF	28.996 4859MODE CODE 2 IND
S1B				MDI 2187	OFF	29.620 2596TCS PULSE OK
		IU		LDO 0734	ON	29.804 4859MODE CODE 2 IND
		IU		LDO 0734	OFF	29.844 4859MODE CODE 2 IND
S1B				MDI 2187	ON	29.992 2596TCS PULSE OK
		IU		LDO 0734	ON	30.080 4859MODE CODE 2 IND

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	IU	LDO 0734 OFF	30.120	4859MODE CODE 2	IND
	IU	LDO 0734 ON	30.156	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	30.288	4859MODE CODE 2	IND
	IU	LDO 0734 ON	30.296	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	30.600	4859MODE CODE 2	IND
	IU	LDO 0734 ON	30.608	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	30.620	2596TCS PULSE	OK
	IU	LDO 0734 OFF	30.704	4859MODE CODE 2	IND
S1B		MDI 2187 ON	30.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	31.524	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	31.564	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	31.620	2596TCS PULSE	OK
	IU	LDO 0734 ON	31.792	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	31.832	4859MODE CODE 2	IND
	IU	LDO 0734 ON	31.864	4859MODE CODE 2	IND
S1B		MDI 2187 ON	31.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	32.004	4859MODE CODE 2	IND
	IU	LDO 0734 ON	32.012	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	32.296	4859MODE CODE 2	IND
	IU	LDO 0734 ON	32.328	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	32.448	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	32.620	2596TCS PULSE	OK
S1B		MDI 2187 ON	32.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	33.280	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	33.332	4859MODE CODE 2	IND
	IU	LDO 0734 ON	33.516	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	33.556	4859MODE CODE 2	IND
	IU	LDO 0734 ON	33.588	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	33.620	2596TCS PULSE	OK
	IU	LDO 0734 OFF	33.700	4859MODE CODE 2	IND
	IU	LDO 0734 ON	33.736	4859MODE CODE 2	IND
S1B		MDI 2187 ON	33.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	34.048	4859MODE CODE 2	IND
	IU	LDO 0734 ON	34.084	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	34.164	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	34.620	2596TCS PULSE	OK
S1B		MDI 2187 ON	34.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	35.000	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	35.044	4859MODE CODE 2	IND
	IU	LDO 0734 ON	35.212	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	35.252	4859MODE CODE 2	IND
	IU	LDO 0734 ON	35.288	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	35.440	4859MODE CODE 2	IND
	IU	LDO 0734 ON	35.448	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	35.620	2596TCS PULSE	OK
	IU	LDO 0734 OFF	35.772	4859MODE CODE 2	IND

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	IU	LDO 0734 ON	35.804	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	35.888	4859MODE CODE 2	IND
S1B		MDI 2187 ON	35.992	2596TCS PULSE	OK
S1B		MDI 2187 OFF	36.620	2596TCS PULSE	OK
	IU	LDO 0734 ON	36.720	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	36.760	4859MODE CODE 2	IND
	IU	LDO 0734 ON	36.932	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	36.972	4859MODE CODE 2	IND
S1B		MDI 2187 ON	36.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	37.108	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	37.164	4859MODE CODE 2	IND
	IU	LDO 0734 ON	37.168	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	37.496	4859MODE CODE 2	IND
	IU	LDO 0734 ON	37.532	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	37.608	4859MODE CODE 2	IND
S1B		MDI 2187 ON	37.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	38.440	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	38.480	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	38.620	2596TCS PULSE	OK
	IU	LDO 0734 ON	38.652	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	38.692	4859MODE CODE 2	IND
	IU	LDO 0734 ON	38.728	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	38.892	4859MODE CODE 2	IND
	IU	LDO 0734 ON	38.928	4859MODE CODE 2	IND
S1B		MDI 2187 ON	38.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	39.216	4859MODE CODE 2	IND
	IU	LDO 0734 ON	39.224	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	39.324	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	39.620	2596TCS PULSE	OK
S1B		MDI 2187 ON	39.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	40.156	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	40.196	4859MODE CODE 2	IND
	IU	LDO 0734 ON	40.368	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	40.408	4859MODE CODE 2	IND
	IU	LDO 0734 ON	40.472	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	40.612	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	40.620	2596TCS PULSE	OK
	IU	LDO 0734 ON	40.644	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	40.932	4859MODE CODE 2	IND
	IU	LDO 0734 ON	40.968	4859MODE CODE 2	IND
S1B		MDI 2187 ON	40.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	41.048	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	41.620	2596TCS PULSE	OK
	IU	LDO 0734 ON	41.848	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	41.888	4859MODE CODE 2	IND

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S1		MDI 2187 OFF 47.620 2596TCS PULSE OK
	IU	LDO 0734 OFF 47.776 4859MODE CODE 2 IND
	IU	LDO 0734 ON 47.812 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 47.888 4859MODE CODE 2 IND
S1B		MDI 2187 ON 47.992 2596TCS PULSE OK
S1		MDI 2187 OFF 48.620 2596TCS PULSE OK
	IU	LDO 0734 ON 48.724 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.768 4859MODE CODE 2 IND
	IU	LDO 0734 ON 48.940 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 48.980 4859MODE CODE 2 IND
S1B		MDI 2187 ON 48.992 2596TCS PULSE OK
	IU	LDO 0734 ON 49.016 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 49.164 4859MODE CODE 2 IND
	IU	LDO 0734 ON 49.172 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 49.500 4859MODE CODE 2 IND
	IU	LDO 0734 ON 49.536 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 49.612 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 49.620 2596TCS PULSE OK
S1B		MDI 2187 ON 49.992 2596TCS PULSE OK
	IU	LDO 0734 ON 50.444 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 50.484 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 50.620 2596TCS PULSE OK
	IU	LDO 0734 ON 50.656 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 50.696 4859MODE CODE 2 IND
	IU	LDO 0734 ON 50.736 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 50.864 4859MODE CODE 2 IND
	IU	LDO 0734 ON 50.924 4859MODE CODE 2 IND
S1B		MDI 2187 ON 50.992 2596TCS PULSE OK
	IU	LDO 0734 OFF 51.224 4859MODE CODE 2 IND
	IU	LDO 0734 ON 51.260 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 51.336 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 51.620 2596TCS PULSE OK
S1B		MDI 2187 ON 51.992 2596TCS PULSE OK
	IU	LDO 0734 ON 52.168 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 52.212 4859MODE CODE 2 IND
	IU	LDO 0734 ON 52.392 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 52.432 4859MODE CODE 2 IND
	IU	LDO 0734 ON 52.468 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 52.620 2596TCS PULSE OK
	IU	LDO 0734 OFF 52.628 4859MODE CODE 2 IND
	IU	LDO 0734 ON 52.664 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 52.976 4859MODE CODE 2 IND
	IU	LDO 0734 ON 52.984 4859MODE CODE 2 IND
S1B		MDI 2187 ON 52.992 2596TCS PULSE OK
	IU	LDO 0734 OFF 53.076 4859MODE CODE 2 IND
S1		MDI 2187 OFF 53.620 2596TCS PULSE OK

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	IU	LDO 0734 ON	53.896	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	53.936	4859MODE CODE 2	IND
S1B		MDI 2187 ON	53.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	54.140	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	54.184	4859MODE CODE 2	IND
	IU	LDO 0734 ON	54.220	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	54.348	4859MODE CODE 2	IND
	IU	LDO 0734 ON	54.384	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	54.620	2596TCS PULSE	OK
	IU	LDO 0734 OFF	54.712	4859MODE CODE 2	IND
	IU	LDO 0734 ON	54.720	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	54.792	4859MODE CODE 2	IND
S1B		MDI 2187 ON	54.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	55.616	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	55.620	2596TCS PULSE	OK
	IU	LDO 0734 OFF	55.660	4859MODE CODE 2	IND
	IU	LDO 0734 ON	55.880	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	55.920	4859MODE CODE 2	IND
	IU	LDO 0734 ON	55.956	4859MODE CODE 2	IND
S1B		MDI 2187 ON	55.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	56.100	4859MODE CODE 2	IND
	IU	LDO 0734 ON	56.104	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	56.416	4859MODE CODE 2	IND
	IU	LDO 0734 ON	56.424	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	56.504	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	56.620	2596TCS PULSE	OK
S1B		MDI 2187 ON	56.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	57.364	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	57.404	4859MODE CODE 2	IND
	IU	LDO 0734 ON	57.592	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	57.620	2596TCS PULSE	OK
	IU	LDO 0734 OFF	57.632	4859MODE CODE 2	IND
	IU	LDO 0734 ON	57.668	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	57.784	4859MODE CODE 2	IND
	IU	LDO 0734 ON	57.820	4859MODE CODE 2	IND
S1B		MDI 2187 ON	57.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	58.132	4859MODE CODE 2	IND
	IU	LDO 0734 ON	58.140	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	58.260	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	58.620	2596TCS PULSE	OK
S1B		MDI 2187 ON	58.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	59.096	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	59.136	4859MODE CODE 2	IND
	IU	LDO 0734 ON	59.304	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	59.344	4859MODE CODE 2	IND
	IU	LDO 0734 ON	59.380	4859MODE CODE 2	IND

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	IU	LDO 0734 OFF	59.508	4859MODE CODE 2	IND
	IU	LDO 0734 ON	59.544	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	59.620	2596TCS PULSE	OK
	IU	LDO 0734 OFF	59.868	4859MODE CODE 2	IND
	IU	LDO 0734 ON	59.904	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	59.980	4859MODE CODE 2	IND
S1B		MDI 2187 ON	59.992	2596TCS PULSE	OK
S1B S4B	IU	CDC 00 09			
S1B		MDI 2187 OFF	00.620	2596TCS PULSE	OK
	IU	LDO 0734 ON	00.852	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	00.852	4859MODE CODE 2	IND
S1B		MDI 2187 ON	00.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	01.028	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	01.068	4859MODE CODE 2	IND
	IU	LDO 0734 ON	01.108	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	01.228	4859MODE CODE 2	IND
	IU	LDO 0734 ON	01.264	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	01.596	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	01.620	2596TCS PULSE	OK
	IU	LDO 0734 ON	01.628	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	01.716	4859MODE CODE 2	IND
S1B		MDI 2187 ON	01.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	02.532	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	02.576	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	02.620	2596TCS PULSE	OK
	IU	LDO 0734 ON	02.748	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	02.792	4859MODE CODE 2	IND
	IU	LDO 0734 ON	02.828	4859MODE CODE 2	IND
S1B		MDI 2187 ON	02.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	03.108	4859MODE CODE 2	IND
	IU	LDO 0734 ON	03.028	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	03.344	4859MODE CODE 2	IND
	IU	LDO 0734 ON	03.348	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	03.428	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	03.620	2596TCS PULSE	OK
S1B		MDI 2187 ON	03.992	2596TCS PULSE	OK
	IU	LDO 0734 ON	04.252	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	04.296	4859MODE CODE 2	IND
	IU	LDO 0734 ON	04.464	4859MODE CODE 2	IND
	IU	LDO 0734 OFF	04.508	4859MODE CODE 2	IND
	IU	LDO 0734 ON	04.544	4859MODE CODE 2	IND
S1B		MDI 2187 OFF	04.620	2596TCS PULSE	OK
	IU	LDO 0734 OFF	04.720	4859MODE CODE 2	IND
	IU	LDO 0734 ON	04.728	4859MODE CODE 2	IND
S1B		MDI 2187 ON	04.992	2596TCS PULSE	OK
	IU	LDO 0734 OFF	05.040	4859MODE CODE 2	IND

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	IU	LDO 0734 ON	05.048	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	05.144	4859MODE CODE 2 IND
S1B		MDI 2187 OFF	05.620	2596TCS PULSE OK
	IU	LDO 0734 ON	05.976	4859MODE CODE 2 IND
S1B		MDI 2187 ON	05.992	2596TCS PULSE OK
	IU	LDO 0734 OFF	06.016	4859MODE CODE 2 IND
	IU	LDO 0734 ON	06.224	4859MODE CODE 2 IND
	IU	LDO 0734 OFF	06.264	4859MODE CODE 2 IND
	IU	LDO 0734 ON	06.300	4859MODE CODE 2 IND
S1B	IU	MDI 2305 ON	06.412	3765S-IVR STAGE SEL
S4B		MDI 1844 OFF	06.412	3928SW SEL ZERO
	IU	MDI 0816 OFF	06.416	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	06.416	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	06.416	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	06.416	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	06.416	3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1090 ON	06.420	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	06.420	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	06.420	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	06.420	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	06.420	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	06.420	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	06.420	0514S-IVR STAGE SELECTOR
	IU	MDI 0818 ON	06.420	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	06.420	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	06.420	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	06.420	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	06.420	5164VXK0005-603
S1B		DDA 2093 ON	06.420	5166VXK0008-603
S1B		DDA 2094 ON	06.420	5167VXK0008-603
S1B		DDA 2095 ON	06.420	5168VXK0008-603
S1B		DDA 2096 ON	06.420	5169VXK0008-603
S1B		DDA 2099 ON	06.420	5170VXK0008-603
S1B		DDA 2100 ON	06.420	5173VXK0008-603
	IU	LDI 1100 ON	06.424	0510BIT NO 6 VERIFY
	IU	LDO 0734 OFF	06.436	4859MODE CODE 2 IND
S1B	IU	MDI 2305 OFF	06.448	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON	06.452	3767RESET COMMAND
S1B S4B	IU	-2- 004 RESET	06.452	
S4B		MDI 1844 ON	06.452	3928SW SEL ZERO
S1B		DDA 2084 ON	06.452	5160VXK0007-603
	IU	LDI 1099 OFF	06.456	0514S-IVR STAGE SELECTOR
	IU	LDI 1100 ON	06.456	0517RESET COMMAND
	IU	MDI 0816 ON	06.456	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	06.456	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	06.456	3519REG CONT BIT 4 VERIFY IN

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	IU	MDI 0820 ON	06.456	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	06.456	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	06.456	3523REG CONT BIT 8 VERIFY IN
71		DDA 2088 OFF	06.456	5164VXK0005-603
	IU	MDI 0821 ON	06.460	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1091 OFF	06.464	0508BIT NO 2 VERIFY
71	IU	MDI 2307 OFF	06.464	3767RESET COMMAND
S1B		DDA 2093 OFF	06.464	5166VXK0008-603
S1B		DDA 2099 OFF	06.464	5172VXK0008-603
	IU	LDI 1092 OFF	06.468	0508BIT NO 3 VERIFY
	IU	LDI 1093 OFF	06.468	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	06.468	0510BIT NO 5 VERIFY
	IU	LDI 1095 OFF	06.468	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	06.468	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	06.468	0512BIT NO 8 VERIFY
71	IU	MDI 2308 ON	06.468	3768READ COMMAND
S1B		DDA 2088 ON	06.468	5164VXK0005-603
71B		DDA 2094 OFF	06.468	5167VXK0008-603
S1B		DDA 2095 OFF	06.468	5168VXK0008-603
S1B		DDA 2096 OFF	06.468	5169VXK0008-603
S1B		DDA 2100 OFF	06.468	5173VXK0008-603
	IU	LDI 1099 ON	06.472	0514S-IVR STAGE SELECTOR
S1B		DDA 2084 OFF	06.472	5160VXK0007-603
	IU	LDI 1103 OFF	06.476	0517RESET COMMAND
S4B		MDI 1844 OFF	06.476	3928SW SEL ZERO
S4B		LDO 1844 OFF	06.476	4535SW SEL ZERO
	IU	MDI 0816 OFF	06.480	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	06.480	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	06.480	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	06.480	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	06.480	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	06.480	3523REG CONT BIT 8 VERIFY IN
	IU	MDI 0816 ON	06.484	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 ON	06.484	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	06.484	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	06.484	3523REG CONT BIT 8 VERIFY IN
	IU	LDO 0734 ON	06.484	4859MODE CODE 2 IND
	IU	LDI 1091 ON	06.488	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	06.488	0507BIT NO 3 VERIFY
71		DDA 2098 ON	06.488	5171VXK0008-603
71		DDA 2099 ON	06.488	5172VXK0008-603
	S4B	LDO 1844 ON	06.524	4535SW SEL ZERO
71	IU	MDI 2308 ON	06.544	3768READ COMMAND
71	S4B	-2- 371 READ	06.544	
71		DDA 2085 ON	06.552	5161VXK0006-603
	IU	LDI 1093 ON	06.554	0517RESET COMMAND

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TEST SIG FLT MAL OAT RUN /3 11

S1B	IU	LDI 1102 ON 06.556 0516SW SEL READ
		MDI 2029 ON 06.556 4080VK0128-404
S4B		LDO 1844 OFF 06.572 4535SW SEL ZERO
S1B	IU	MDI 2305 OFF 06.580 3765S-IV8 STAGE SEL
S1B	IU	MDI 2308 OFF 06.580 3768READ COMMAND
S1B		DDA 2085 OFF 06.588 5161VXK0006-603
S1B		DDA 2086 OFF 06.588 5164VXK0005-603
	IU	LDI 0983 OFF 06.592 0463SW SEL READ
	IU	LDI 1099 OFF 06.592 0514S-IV8 STAGE SELECTOR
	IU	LDI 1102 OFF 06.592 0516SW SEL READ
	IU	MDI 0817 ON 06.592 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 06.592 3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844 ON 06.592 3928SW SEL ZERO
S1B		DDA 2099 OFF 06.596 5172VXK0008-603
	IU	LDI 1091 OFF 06.600 0506BIT NO 2 VERIFY
	IU	LDI 1091 OFF 06.600 0506BIT NO 3 VERIFY
S1B		DDA 2098 OFF 06.600 5171VXK0008-603
S1B		DDA 2029 OFF 06.604 4080VK0128-404
	IU	LDO 0734 OFF 06.608 4859MODE CODE 2 IND
	IU	LDO 0734 ON 06.616 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 06.620 2596TCS PULSE OK
S4B		LDO 1844 ON 06.652 4535SW SEL ZERO
	IU	LDO 0734 OFF 06.892 4859MODE CODE 2 IND
	IU	LDO 0734 ON 06.900 4859MODE CODE 2 IND
S1B		MDI 2187 ON 06.992 2596TCS PULSE OK
	IU	LDO 0734 OFF 07.040 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 07.620 2596TCS PULSE OK
	IU	LDO 0734 ON 07.872 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 07.912 4859MODE CODE 2 IND
S1B		MDI 2187 ON 07.988 2596TCS PULSE OK
	IU	LDO 0734 ON 08.088 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 08.128 4859MODE CODE 2 IND
	IU	LDO 0734 ON 08.164 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 08.316 4859MODE CODE 2 IND
	IU	LDO 0734 ON 08.324 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 08.620 2596TCS PULSE OK
	IU	LDO 0734 OFF 08.680 4859MODE CODE 2 IND
	IU	LDO 0734 ON 08.716 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 08.772 4859MODE CODE 2 IND
S1B		MDI 2187 ON 08.988 2596TCS PULSE OK
	IU	LDO 0734 ON 09.300 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 09.320 2596TCS PULSE OK
	IU	LDO 0734 OFF 09.640 4859MODE CODE 2 IND
	IU	LDO 0734 ON 09.840 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 09.852 4859MODE CODE 2 IND
	IU	LDO 0734 ON 09.908 4859MODE CODE 2 IND

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TEST SIM FLT MAL CAT POP 43 11

S18		MDI 2187	ON	10.988	2596TCS PULSE	OK
	IU	LDO 0734	OFF	10.356	4859MODE CODE	2 IND
	IU	LDO 0734	ON	10.404	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	10.408	4859MODE CODE	2 IND
	IU	LDO 0734	ON	11.320	4859MODE CODE	2 IND
S18		MDI 2187	OFF	10.620	2596TCS PULSE	OK
S18		MDI 2187	ON	10.988	2596TCS PULSE	OK
	IU	LDO 0734	ON	11.320	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	11.360	4859MODE CODE	2 IND
	IU	LDO 0734	ON	11.536	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	11.540	4859MODE CODE	2 IND
	IU	LDO 0734	ON	11.516	4859MODE CODE	2 IND
S18		MDI 2187	OFF	11.520	2596TCS PULSE	OK
	IU	LDO 0734	OFF	11.744	4859MODE CODE	2 IND
	IU	LDO 0734	ON	11.740	4859MODE CODE	2 IND
S18		MDI 2187	ON	11.988	2596TCS PULSE	OK
	IU	LDO 0734	OFF	12.128	4859MODE CODE	2 IND
	IU	LDO 0734	ON	12.136	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	12.220	4859MODE CODE	2 IND
S18		MDI 2187	OFF	12.620	2596TCS PULSE	OK
S18		MDI 2187	ON	12.988	2596TCS PULSE	OK
	IU	LDO 0734	ON	13.044	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	13.088	4859MODE CODE	2 IND
	IU	LDO 0734	ON	13.264	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	13.304	4859MODE CODE	2 IND
	IU	LDO 0734	ON	13.340	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	13.500	4859MODE CODE	2 IND
	IU	LDO 0734	ON	13.536	4859MODE CODE	2 IND
S18		MDI 2187	OFF	13.620	2596TCS PULSE	OK
	IU	LDO 0734	OFF	13.852	4859MODE CODE	2 IND
	IU	LDO 0734	ON	13.856	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	13.940	4859MODE CODE	2 IND
S18		MDI 2187	ON	13.988	2596TCS PULSE	OK
S18		MDI 2187	OFF	14.620	2596TCS PULSE	OK
	IU	LDO 0734	ON	14.776	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	14.816	4859MODE CODE	2 IND
S18		MDI 2187	ON	14.988	2596TCS PULSE	OK
	IU	LDO 0734	ON	14.988	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	15.028	4859MODE CODE	2 IND
	IU	LDO 0734	ON	15.096	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	15.228	4859MODE CODE	2 IND
	IU	LDO 0734	ON	15.264	4859MODE CODE	2 IND
	IU	LDO 0734	OFF	15.580	4859MODE CODE	2 IND
	IU	LDO 0734	ON	15.588	4859MODE CODE	2 IND
S18		MDI 2187	OFF	15.620	2596TCS PULSE	OK

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	IU	LDO 0734 OFF 15.676 4859MODE CODE 2 IND
S1B		MDI 2187 ON 15.988 2596TCS PULSE OK
	IU	LDO 0734 ON 16.500 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 16.544 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 16.620 2596TCS PULSE OK
	IU	LDO 0734 ON 16.752 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 16.792 4859MODE CODE 2 IND
	IU	LDO 0734 ON 16.828 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 16.980 4859MODE CODE 2 IND
S1B		MDI 2187 ON 16.988 2596TCS PULSE OK
	IU	LDO 0734 ON 16.988 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 17.300 4859MODE CODE 2 IND
	IU	LDO 0734 ON 17.308 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 17.392 4859MODE CODE 2 IND
S1B		MDI 2187 OFF 17.620 2596TCS PULSE OK
S1B		MDI 2187 ON 17.988 2596TCS PULSE OK
	IU	LDO 0734 ON 18.228 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 18.268 4859MODE CODE 2 IND
	IU	LDO 0734 ON 18.472 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 18.516 4859MODE CODE 2 IND
	IU	LDO 0734 ON 18.552 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 18.704 4859MODE CODE 2 IND
	IU	LDO 0734 ON 18.708 4859MODE CODE 2 IND
	IU	MDI 0799 ON 18.844 1911CMD 76D91 PWR FAIL SIM
	IU	MDI 0616 OFF 18.848 3316S/C CUTOFF ENABLE A
	IU	DEE 3782 OFF 18.848 5145 649 4 N
	IU	DEE 3785 ON 18.848 5148CUTOFF CMD 1 FROM S/C
	IU	MDI 2232 ON 18.852 5021EDS CUTOFF NO.1 OR NO.2
S1B		DDA 2007 OFF 18.892 4066VM0021-602
	IU	LDO 0616 OFF 18.908 4383S/C CUTOFF ENABLE A
S1B		DDA 2034 OFF 18.920 4084VK0017-602
	IU	MDI 2187 ON 18.988 2596TCS PULSE OK
S1B		DDA 0275 ON 19.028 1474VK0208-337
	IU	LDO 0734 OFF 19.028 4859MODE CODE 2 IND
S1B		DDA 0278 OFF 19.032 1477VK0216-337
	IU	LDO 0734 ON 19.036 4859MODE CODE 2 IND
	IU	LDO 0734 OFF 19.160 4859MODE CODE 2 IND
	IU	MDI 2187 OFF 19.620 2596TCS PULSE OK
	IU	MDI 0801 ON 19.840 1913CMD 76D93 PWR FAIL SIM
	IU	MDI 2232 OFF 19.844 5021EDS CUTOFF NO.1 OR NO.2
	IU	DEE 3784 OFF 19.844 5147+6D93 BUS ON
	IU	DEE 3787 ON 19.844 5150CUTOFF CMD 3 FROM S/CN
	IU	MDI 2233 ON 19.848 5106EDS CUTOFF NO. 2 OR NO.3
S4B		MDI 1785 OFF 19.852 3615ENG CONT PWR ON
S4B		MDI 1810 OFF 19.856 3720ASI LOX VLV OPEN

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840		MDI 1806 OFF 19.968 4501ENG HE CONT SOL ENERGIZE
840		MDI 1741 OFF 19.968 4479LOX TANK NOT OVERFILLED
840		MDI 2742 OFF 19.856 4987SPARK SYS 2 TEST UN
	IU	MDO 0897 ON 19.860 2091CMD SIVB ENG OUT SIM A
840		MDI 1784 OFF 19.860 3814SPARK SYS NO 2 INH
840		MDI 1847 OFF 19.860 3930SPARK SYS NO 1 INH
810		DDA 3008 OFF 19.860 5344VK0006-401
810		DDA 3006 OFF 19.864 5343VK0008-401
810		DDA 3009 OFF 19.864 5345VK0005-401
810		DDA 3046 OFF 19.864 5360VK0125-401
840		LDI 1037 OFF 19.868 0498MAIN STAGE NO 2 OK
810		DDA 2002 OFF 19.892 4061VM0023-602
840		LDO 1784 OFF 19.916 4480SPARK SYS NO 2 INH
810		DDA 2031 ON 19.920 4082VK0091-602
840		LDI 1036 OFF 19.940 0497MAIN STAGE NO 1 OK
810		DDA 3036 OFF 19.940 5351VK0118-401
810		DDA 3037 OFF 19.940 5352VK0117-401
810		DDA 3038 OFF 19.940 5353VK0014-401
810		DDA 3034 OFF 19.948 5350VK0120-401
840		LDI 1806 OFF 19.968 4501ENG HE CONT SOL ENERGIZE
840		LDI 1810 OFF 19.968 4505ASI LOX VLV OPEN
840		LDI 1782 OFF 19.980 4479LOX TANK NOT OVERFILLED
810		MDI 2187 ON 19.988 2596TCS PULSE OK
840		LDI 1847 OFF 19.988 4537SPARK SYS NO 1 INH
840		LDI 1817 ON 19.996 3905MAIN LOX VLV CLOSED
	IU	LDI 0734 ON 20.024 4859MODE CODE 2 IND
810		LDI 0273 ON 20.028 1472VK0210-337
810		LDI 0276 OFF 20.028 1475VK0214-337
	IU	LDO 0734 OFF 20.064 4859MODE CODE 2 IND
840		LDO 1817 ON 20.088 4512MAIN LOX VLV CLOSED
840		MDI 1809 ON 20.128 3839MAIN FUEL VLV CLOSED
840		LDI 1809 ON 20.128 3839MAIN FUEL VLV CLOSED
	IU	LDO 0734 ON 20.240 4859MODE CODE 2 IND
	IU	LDI 0734 OFF 20.252 4859MODE CODE 2 IND
	IU	LDO 0734 ON 20.288 4859MODE CODE 2 IND
848		MDI 1816 ON 20.320 3904GG VLV CLOSED
848		LDO 1816 ON 20.376 4511GG VLV CLOSED
	IU	LDO 0734 OFF 20.436 4859MODE CODE 2 IND
	IU	LDO 0734 ON 20.444 4859MODE CODE 2 IND
810		MDI 2187 OFF 20.616 2596TCS PULSE OK
	IU	MDO 0799 OFF 20.744 1911CMD ?6091 PWR FAIL SIM
	IU	MDO 0891 ON 20.748 2085CMD SIVB ENG OUT SIM B
	IU	MDI 0616 ON 20.748 3316S/C CUTOFF ENABLE A
	IU	DEE 3782 ON 20.748 5145 649 4 N
	IU	DEE 3785 OFF 20.748 5148CUTOFF CMD 1 FROM S/C
810		DDA 2034 ON 20.752 4084VK0017-602

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TEST SIM FLT MAL CAT SW 73 11

S1A		DDA 0275	OFF	20.776	1474VK0208-337
S1A		DDA 0278	ON	20.776	1477VK0216-337
S1A		DDA 2007	ON	20.808	4066VM0021-602
	IU	LDO 0734	OFF	20.808	4859MODE CODE 2 IND
	IU	LDO 0616	ON	20.816	4383S/C CUTOFF ENABLE A
S1A		DDA 2031	OFF	20.836	4082VK0091-602
	IU	LDO 0734	ON	20.852	4859MODE CODE 2 IND
	IU	MDO 0801	OFF	20.932	1913CMD 76D93 PWR FAIL SIM
	IU	LDO 0734	OFF	20.940	4859MODE CODE 2 IND
	IU	DEE 2233	OFF	20.940	5147+6D93 BUS ON
	IU	DEE 3784	ON	20.940	5150CUTOFF CMD 3 FROM S/CN
	IU	DEE 3787	OFF	20.940	5150CUTOFF CMD 3 FROM S/CN
S1B		DDA 2002	ON	20.976	4061VM0023-602
S1B		MDI 2187	ON	20.988	2596TCS PULSE OK
S1B		DDA 0273	OFF	21.024	1472VK0210-337
S1B		MDI 2187	OFF	21.616	2596TCS PULSE OK
S1B	IU	MDI 2305	ON	21.624	3765S-IVB STAGE SEL
	IU	LDI 1099	ON	21.628	0514S-IVB STAGE SELECTOR
	IU	MDI 0817	OFF	21.628	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	21.628	3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844	OFF	21.628	3928SW SEL ZERO
S1B		DDA 2088	ON	21.628	5164VXK0005-603
	IU	MDI 0818	ON	21.632	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820	OFF	21.632	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	OFF	21.632	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823	OFF	21.632	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091	ON	21.636	0506BIT NO 2 VERIFY
	IU	LDI 1094	ON	21.636	0509BIT NO 5 VERIFY
	IU	LDI 1097	ON	21.636	0512BIT NO 8 VERIFY
S1B		DDA 2093	ON	21.636	5168VXK0008-603
S1B		DDA 2095	ON	21.636	5168VXK0008-603
S1B		DDA 2096	ON	21.636	5169VXK0008-603
S1B		DDA 2099	ON	21.636	5172VXK0008-603
S1B	IU	MDI 2308	ON	21.676	3768READ COMMAND
S1B S4B	IU	-2- 115	READ	21.676	
	IU	LDI 1102	ON	21.684	0516SW SEL READ
S1B		DDA 2085	ON	21.684	5161VXK0006-603
	IU	LDI 0983	ON	21.688	0463SW SEL READ
S1B		LDI 1079	ON	21.688	0504SIVB ENG CUTOFF
S4B		MDI 2766	ON	21.688	2738SIVB ENG CUTOFF
S1B		DDA 2029	ON	21.688	4080VK0128-404
S4B		LDO 1844	OFF	21.712	4535SW SEL ZERO
S1A	IU	MDI 2305	OFF	21.716	3765S-IVB STAGE SEL
S1A	IU	MDI 2305	OFF	21.716	3765S-IVB STAGE SEL

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TEST S18 FLT VAL DAT 73 11

S4B		MDI 1844 ON	21.724	3928SW SEL ZERO
	IU	LDI 0983 OFF	21.728	0463SW SEL READ
	IU	LDI 1091 OFF	21.728	0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF	21.728	0514S-IVR STAGE SELECTOR
	IU	LDI 1102 OFF	21.728	0516SW SEL READ
	IU	MDI 0817 ON	21.728	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	21.728	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	21.728	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	21.728	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF	21.728	5164VXK0005-603
S1B		DDA 2093 OFF	21.728	5166VXK0008-603
S1B		DDA 2099 OFF	21.728	5172VXK0008-603
	IU	LDI 1094 OFF	21.732	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	21.732	0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF	21.732	0512BIT NO 8 VERIFY
S1B		DDA 2095 OFF	21.732	5168VXK0008-603
S1B		DDA 2096 OFF	21.732	5169VXK0008-603
S1B	IU	MDI 2305 ON	21.736	3765S-IVR STAGE SEL
S1B		DDA 2088 OFF	21.736	5164VXK0005-603
S4B		MDI 1844 OFF	21.740	3928SW SEL ZERO
	IU	LDI 1099 ON	21.744	0514S-IVR STAGE SELECTOR
	IU	MDI 0816 OFF	21.744	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	21.744	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	21.744	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	21.744	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	21.744	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	21.744	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	21.744	5164VXK0005-603
	IU	MDI 0821 ON	21.748	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1090 ON	21.752	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	21.752	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	21.752	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	21.752	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	21.752	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	21.752	5166VXK0008-603
S1B		DDA 2094 ON	21.752	5167VXK0008-603
S1B		DDA 2096 ON	21.752	5169VXK0008-603
S1B		DDA 2099 ON	21.752	5172VXK0008-603
S1B		DDA 2100 ON	21.752	5173VXK0008-603
S1B	IU	MDI 2308 ON	21.772	3768READ COMMAND
S1B S4B	IU	-2- 054 READ	21.772	
	IU	LDI 0983 ON	21.776	0463SW SEL READ
	IU	LDI 1102 ON	21.776	0516SW SEL READ
S4B		LDO 1844 ON	21.776	4535SW SEL ZERO
S1B		DDA 2085 ON	21.776	5161VXK0006-603

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S1B		DDA 2029 ON	21.780	4080VK0128-404
S1B	IU	MDI 2305 OFF	21.808	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	21.808	3768READ COMMAND
	IU	LDI 0983 OFF	21.820	0463SW SEL READ
	IU	LDI 1099 OFF	21.820	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	21.820	0516SW SEL READ
	IU	MDI 0816 ON	21.820	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	21.820	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	21.820	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	21.820	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	21.820	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 ON	21.820	3928SW SEL ZERO
S4B		LDO 1844 OFF	21.820	4535SW SEL ZERO
S1P		DDA 2085 OFF	21.820	5161VXK0006-603
S1B		DDA 2088 OFF	21.820	5164VXK0005-603
S1B		DDA 2029 OFF	21.824	4080VK0128-404
S1B		LDI 0967 ON	21.828	0422COMPT RESET PULSE NO. 2
	IU	LDI 1091 OFF	21.828	0506BIT NO 2 VERIFY
S1B		DDA 2159 ON	21.828	4136VJ0072-603
S1B		DDA 2093 OFF	21.828	5166VXK0008-603
S1B		DDA 2099 OFF	21.828	5172VXK0008-603
	IU	LDI 1094 OFF	21.832	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	21.832	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	21.832	0512BIT NO 8 VERIFY
S1B		DDA 2094 OFF	21.832	5167VXK0008-603
S1B		DDA 2096 OFF	21.832	5169VXK0008-603
S1B		DDA 2100 OFF	21.832	5173VXK0008-603
S1B		LDI 0966 ON	21.836	0421COMPT RESET PULSE NO. 1
S1B	IU	MDI 2305 ON	21.836	3765S-IVB STAGE SEL
S1B		DDA 2160 ON	21.836	4137VJ0071-603
	IU	MDI 0816 OFF	21.840	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	21.840	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 OFF	21.840	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	21.840	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	21.840	3928SW SEL ZERO
	IU	LDI 1090 ON	21.844	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	21.844	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	21.844	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	21.844	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	21.844	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	21.844	0514S-IVB STAGE SELECTOR
	IU	MDI 0819 OFF	21.844	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	21.844	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2088 ON	21.844	5164VXK0005-603
S1B		DDA 2093 ON	21.844	5166VXK0008-603

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TEST S14 FLT VAL CAT 11 11

S14		DDA 2094 ON	21.844	5167VXK0008-603	
S14		DDA 2096 ON	21.844	5169VXK0008-603	
S14		DDA 2099 ON	21.844	5172VXK0008-603	
S14		DDA 2100 ON	21.844	5173VXK0008-603	
	IU	LDI 1093 ON	21.852	0508BIT NO 4 VERIFY	
	IU	LDI 1095 ON	21.852	0510BIT NO 6 VERIFY	
S18		DDA 2095 ON	21.852	5168VXK0008-603	
	IU	LDI 1094 OFF	21.856	0509BIT NO 5 VERIFY	
S18		DDA 2096 OFF	21.856	5169VXK0008-603	
S18	IU	MDI 2305 OFF	21.868	3765S-IVR STAGE SEL	
S18	IU	MDI 2307 ON	21.868	3767RESET COMMAND	
S14	IJ	-2- 124 125	21.868		
S4B		LDO 1844 ON	21.868	4535SW SEL ZERO	
	IU	MDI 0816 ON	21.872	3516REG CONT BIT 1 VERIFY IN	
	IU	MDI 0817 ON	21.872	3517REG CONT BIT 2 VERIFY IN	
	IU	MDI 0823 ON	21.872	3523REG CONT BIT 8 VERIFY IN	
S4B		MDI 1844 ON	21.872	3928SW SEL ZERO	
	IU	LDI 1103 ON	21.876	0517RESET COMMAND	
	IU	MDI 0819 ON	21.876	3519REG CONT BIT 4 VERIFY IN	
	IU	MDI 0821 ON	21.876	3521REG CONT BIT 6 VERIFY IN	
	IU	MDI 0822 ON	21.876	3522REG CONT BIT 7 VERIFY IN	
S18		DDA 2084 ON	21.876	5160VXK0007-603	
S18		DDA 2099 OFF	21.876	5172VXK0008-603	
	IU	LDI 1090 OFF	21.880	0505BIT NO 1 VERIFY	
	IU	LDI 1091 OFF	21.880	0506BIT NO 2 VERIFY	
	IU	LDI 1097 OFF	21.880	0512BIT NO 8 VERIFY	
	IU	LDI 1099 OFF	21.880	0514S-IVR STAGE SELECTOR	
S18		DDA 2088 OFF	21.880	5164VXK0005-603	
S18		DDA 2093 OFF	21.880	5166VXK0008-603	
S18		DDA 2094 OFF	21.880	5167VXK0008-603	
S18		DDA 2100 OFF	21.880	5173VXK0008-603	
	IU	LDI 1093 OFF	21.884	0508BIT NO 4 VERIFY	
	IU	LDI 1095 OFF	21.884	0510BIT NO 6 VERIFY	
	IU	LDI 1096 OFF	21.884	0511BIT NO 7 VERIFY	
S18	IU	MDI 2305 ON	21.884	3765S-IVR STAGE SEL	
S18	IU	MDI 2307 OFF	21.884	3767RESET COMMAND	
S18		DDA 2095 OFF	21.884	5168VXK0008-603	
S18		LDI 0966 OFF	21.888	0421COMPT RESET PULSE NO. 1	
S18		LDI 0967 OFF	21.888	0422COMPT RESET PULSE NO. 2	
S18		DDA 2159 OFF	21.888	4136VJ0072-603	
S18		DDA 2160 OFF	21.888	4137VJ0071-603	
	IU	LDI 1099 ON	21.892	0514S-IVR STAGE SELECTOR	
S18		DDA 2088 ON	21.892	5164VXK0005-603	
	IU	LDI 1103 OFF	21.896	0517RESET COMMAND	
	IU	MDI 0816 OFF	21.896	3516REG CONT BIT 1 VERIFY IN	
	IU	MDI 0817 OFF	21.896	3517REG CONT BIT 2 VERIFY IN	

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	IU	MDI 0819 OFF 21.896 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF 21.896 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 21.896 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 21.896 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 21.896 3928SW SEL ZERO
S1B		MDI 2084 OFF 21.896 5164VXK0007-603
	IU	MDI 0816 ON 21.900 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF 21.900 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 21.900 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 21.900 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 21.900 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 21.900 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 21.900 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2098 ON 21.900 5171VXK0008-603
S1B		DDA 2099 ON 21.900 5172VXK0008-603
	IU	LDI 1091 ON 21.904 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 21.904 0507BIT NO 3 VERIFY
	IU	LDI 1094 ON 21.904 0509BIT NO 5 VERIFY
S4B		MDI 1844 OFF 21.912 3928SW SEL ZERO
S1B	IU	MDI 2308 ON 21.920 3768READ COMMAND
S1B	IU	LDI 0983 ON 21.928 0463SW SEL READ
	IU	LDI 1102 OFF 21.928 0516SW SEL READ
S1B		DDA 2029 ON 21.928 4080VK0128-404
S1B		DDA 2085 ON 21.928 5161VXK0006-603
S4B		MDI 1710 OFF 21.932 3088LOX PREVALVE OPEN
S4B		MDI 1711 OFF 21.932 3088LOX PREVALVE OPEN
S4B		LDO 1844 ON 21.952 4535SW SEL ZERO
S1B	IU	MDI 2305 OFF 21.956 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 21.956 3768READ COMMAND
	IU	MDI 0817 ON 21.968 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 21.968 3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844 OFF 21.968 3928SW SEL ZERO
S1B		DDA 2085 OFF 21.968 5161VXK0006-603
	IU	LDI 0983 OFF 21.972 0463SW SEL READ
	IU	LDI 1099 OFF 21.972 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 21.972 0516SW SEL READ
	IU	MDI 0820 ON 21.972 3520REG CONT BIT 5 VERIFY IN
S4B		LDO 1844 OFF 21.972 4535SW SEL ZERO
S1B		DDA 2088 OFF 21.972 5164VXK0005-603
S1B		DDA 2029 OFF 21.976 4080VK0128-404
S1B		DDA 2099 OFF 21.976 5172VXK0008-603
	IU	LDI 1091 OFF 21.980 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 21.980 0507BIT NO 3 VERIFY
S4B	IU	MDI 2305 ON 21.980 3765S-IVB STAGE SEL

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S1B		DDA 2096 OFF 21.980 5169VXK0008-603
S1B		DDA 2098 OFF 21.980 5171VXK0008-603
	IU	LDI 1094 OFF 21.984 0509BIT NO 5 VERIFY
	IU	LDI 1099 ON 21.984 0514S-IVB STAGE SELECTOR
S4B		MDI 1844 OFF 21.984 3928SW SEL ZERO
S1B		DDA 2088 ON 21.984 5164VXK0005-603
S1B		MDI 2187 ON 21.988 2596TCS PULSE OK
	IU	MDI 0816 OFF 21.988 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 21.988 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF 21.988 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 21.988 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2095 ON 21.992 5168VXK0008-603
S1B		DDA 2100 ON 21.992 5173VXK0008-603
	IU	LDI 1090 ON 21.996 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 21.996 0506BIT NO 2 VERIFY
	IU	LDI 1095 ON 21.996 0510BIT NO 6 VERIFY
	IU	LDI 1097 ON 21.996 0512BIT NO 8 VERIFY
S1B		MDI 2307 ON 22.012 3767RESET COMMAND
S4B		MDI 1844 ON 22.016 3928SW SEL ZERO
S1B		DDA 2084 ON 22.016 5160VXK0007-603
	IU	LDI 1091 OFF 22.020 0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF 22.020 0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON 22.020 0517RESET COMMAND
	IU	MDI 0816 ON 22.020 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 22.020 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 ON 22.020 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON 22.020 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 OFF 22.020 5166VXK0008-603
S1B		DDA 2099 OFF 22.020 5172VXK0008-603
	IU	LDI 1090 OFF 22.024 0505BIT NO 1 VERIFY
	IU	LDI 1095 OFF 22.024 0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF 22.024 0512BIT NO 8 VERIFY
S1B		DDA 2095 OFF 22.024 5168VXK0008-603
S1B		DDA 2100 OFF 22.024 5173VXK0008-603
S1B	IU	MDI 2305 ON 22.028 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF 22.028 3767RESET COMMAND
S1B	IU	LDI 1103 ON 22.036 0517RESET COMMAND
S1B		DDA 2084 OFF 22.036 5160VXK0007-603
S1B		DDA 2088 ON 22.036 5164VXK0005-603
	IU	LDI 1103 OFF 22.040 0517RESET COMMAND
	IU	MDI 0816 OFF 22.040 3516REG CONT BIT 1 VERIFY IN

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	IU	MDI 0817 OFF 22.040 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 22.040 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF 22.040 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 22.040 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 22.040 3928SW SEL ZERO
S4B		LDO 1710 OFF 22.040 4771LOX PREVALVE OPEN
S4B		LDO 1711 OFF 22.040 4772LH PREVALVE OPEN
	IU	LDI 1090 ON 22.044 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 22.044 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 22.044 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 22.044 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 22.044 0509BIT NO 5 VERIFY
	IU	LDI 1096 ON 22.044 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 22.044 0512BIT NO 8 VERIFY
	IU	MDI 0816 ON 22.044 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 OFF 22.044 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 22.044 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 22.044 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 22.044 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 22.044 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON 22.044 5166VXK0008-603
S1B		DDA 2094 ON 22.044 5167VXK0008-603
S1B		DDA 2096 ON 22.044 5169VXK0008-603
S1B		DDA 2098 ON 22.044 5171VXK0008-603
S1B		DDA 2099 ON 22.044 5172VXK0008-603
S1B		DDA 2100 ON 22.044 5173VXK0008-603
S4B		LDO 1844 ON 22.048 4535SW SEL ZERO
	IU	LDI 1090 OFF 22.056 0505BIT NO 1 VERIFY
	IU	LDI 1097 OFF 22.056 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 22.056 5166VXK0008-603
S1B		DDA 2100 OFF 22.056 5173VXK0008-603
S4B		LDO 1844 OFF 22.064 4535SW SEL ZERO
S4B		LDO 1844 ON 22.100 4535SW SEL ZERO
S4B		LDO 1844 OFF 22.140 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 22.152 3768READ COMMAND
S1B S4B	IU	-2- 241 READ 22.152
	IU	LDI 0983 ON 22.160 0463SW SEL READ
	IU	LDI 1102 ON 22.160 0513SW SEL READ
S1B		DDA 2085 ON 22.160 5161VXK0006-603
S4B		MDI 1676 OFF 22.164 3068LOX TK NPV VLV FULL CL
S1B		DDA 2029 ON 22.164 4080VK0128-404
S1B	IU	MDI 2305 OFF 22.184 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 22.184 3768READ COMMAND
S4B		MDI 1844 ON 22.192 3928SW SEL ZERO
	IU	LDI 0983 OFF 22.196 0463SW SEL READ
	IU	LDI 1099 OFF 22.196 0514S-IVB STAGE SELECTOR

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	IU	LDI 1102	OFF	22.196	0516SW SEL READ
	IU	MDI 0817	ON	22.196	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	ON	22.196	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	22.196	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	ON	22.196	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822	ON	22.196	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2085	OFF	22.196	5161VXK0006-603
S1B		DDA 2086	OFF	22.196	5164VXK0005-603
S1B		DDA 2029	OFF	22.200	4080VK0128-404
	IU	LDI 1091	OFF	22.204	0506BIT NO 2 VERIFY
	IU	LDI 1092	OFF	22.204	0507BIT NO 3 VERIFY
S1B		DDA 2096	OFF	22.204	5169VXK0008-603
S1B		DDA 2098	OFF	22.204	5171VXK0008-603
S1B		DDA 2099	OFF	22.204	5172VXK0008-603
	IU	LDI 1093	OFF	22.208	0508BIT NO 4 VERIFY
	IU	LDI 1094	OFF	22.208	0509BIT NO 5 VERIFY
	IU	LDI 1096	OFF	22.208	0511BIT NO 7 VERIFY
S1B	IU	MDI 2305	ON	22.208	3765S-IVR STAGE SEL
S4B		MDI 1844	OFF	22.208	3928SW SEL ZERO
S1B		DDA 2088	ON	22.208	5164VXK0005-603
S1B		DDA 2094	OFF	22.208	5167VXK0008-603
	IU	LDI 1099	ON	22.212	0514S-IVR STAGE SELECTOR
	IU	MDI 0817	OFF	22.212	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	22.212	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	22.212	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	22.212	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822	OFF	22.212	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0816	OFF	22.216	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819	ON	22.216	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822	ON	22.216	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	22.216	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2096	ON	22.216	5169VXK0008-603
S1B		DDA 2098	ON	22.216	5171VXK0008-603
S1B		DDA 2099	ON	22.216	5172VXK0008-603
S1B		DDA 2100	ON	22.216	5173VXK0008-603
	IU	LDI 1090	ON	22.220	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	22.220	0506BIT NO 2 VERIFY
	IU	LDI 1092	ON	22.220	0507BIT NO 3 VERIFY
	IU	LDI 1094	ON	22.220	0509BIT NO 5 VERIFY
	IU	LDI 1097	ON	22.220	0512BIT NO 8 VERIFY
S1B		DDA 2096	ON	22.220	5169VXK0008-603
S4B		MDI 1675	ON	22.228	3067LOX TK NPV VLV FULL OPEN
S1B	IU	MDI 2305	OFF	22.236	3765S-IVR STAGE SEL
S1B	IU	MDI 2307	ON	22.236	3767RESET COMMAND
S1B	S4B IU	-2- 150	RESET	22.236	
S4B		MDI 1844	ON	22.240	3928SW SEL ZERO

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	IU	LDI 1103 ON	22.244	0517RESET COMMAND
	IU	MDI 0816 ON	22.244	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	22.244	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	22.244	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON	22.244	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	22.244	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	22.244	5160VXK0007-603
S1B		DDA 2088 OFF	22.244	5164VXK0005-603
	IU	LDI 1099 OFF	22.248	0514S-IVB STAGE SELECTOR
	IU	LDI 1091 OFF	22.252	0506BIT NO 2 VERIFY
S1B	IU	MDI 2305 ON	22.252	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	22.252	3767RESET COMMAND
S1B		DDA 2099 OFF	22.252	5172VXK0008-603
	IU	LDI 1090 OFF	22.256	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	22.256	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	22.256	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	22.256	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	22.256	5166VXK0008-603
S1B		DDA 2096 OFF	22.256	5167VXK0007-603
S1B		DDA 2098 OFF	22.256	5171VXK0008-603
S1B		DDA 2100 OFF	22.256	5173VXK0008-603
	IU	LDI 1099 ON	22.260	0514S-IVB STAGE SELECTOR
S1B		DDA 2088 ON	22.260	5164VXK0005-603
	IU	LDI 1103 OFF	22.264	0517RESET COMMAND
	IU	MDI 0816 OFF	22.264	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	22.264	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	22.264	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	22.264	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF	22.264	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	22.264	3928SW SEL ZERO
S1B		DDA 2084 OFF	22.264	5160VXK0007-603
	IU	LDI 1090 ON	22.268	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	22.268	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	22.268	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	22.268	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	22.268	0512BIT NO 8 VERIFY
	IU	MDI 0816 ON	22.268	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	22.268	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	22.268	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	22.268	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	22.268	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	22.268	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	22.268	3523REG CONT BIT 8 VERIFY IN
S4B		LDO 1676 OFF	22.268	4751LOX TK NPV VLV FULL CL
S1B		DDA 2093 ON	22.268	5166VXK0008-603
S1B		DDA 2094 ON	22.268	5167VXK0008-603

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S1B		DDA 2095 ON	22.268	5168VXK0008-603
S1B		DDA 2099 ON	22.268	5172VXK0008-603
S1B		DDA 2100 ON	22.268	5173VXK0008-603
	IU	LDI 1095 ON	22.272	0510BIT NO 6 VERIFY
	IU	LDI 1090 OFF	22.280	0505BIT NO 1 VERIFY
	IU	LDI 1097 OFF	22.280	0512BIT NO 8 VERIFY
S4B		LDO 1844 ON	22.280	4535SW SEL ZERO
S1B		DDA 2095 OFF	22.280	5168VXK0008-603
S1B		DDA 2100 OFF	22.280	5173VXK0008-603
	S4B	LDO 1844 OFF	22.328	4535SW SEL ZERO
	S4B	LDO 1675 ON	22.336	4750LOX TK NPV VLV FULL OPEN
	S4B	LDO 1844 ON	22.344	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	22.368	3768READ COMMAND
S1B	S4B	-2- 225 READ	22.368	
	IU	LDI 0983 ON	22.376	0463SW SEL READ
	IU	LDI 1102 ON	22.376	0514S-IVB STAGE SELECTOR
S1B		DDA 2085 ON	22.376	5161VXK0006-603
S1B		DDA 2029 OFF	22.380	4080VXK0128-404
	S4B	LDO 1844 OFF	22.384	4535SW SEL ZERO
S1B	IU	MDI 2305 OFF	22.408	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	22.408	3768READ COMMAND
	S4B	MDI 1844 ON	22.416	3928SW SEL ZERO
	IU	LDI 0983 OFF	22.420	0463SW SEL READ
	IU	LDI 1099 OFF	22.420	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	22.420	0516SW SEL READ
	IU	MDI 0817 ON	22.420	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	22.420	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	22.420	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	22.420	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2085 OFF	22.420	5161VXK0006-603
S1B		DDA 2088 OFF	22.420	5164VXK0005-603
S1B		DDA 2095 OFF	22.428	5168VXK0008-603
	IU	LDI 1091 OFF	22.428	0506BIT NO 2 VERIFY
	IU	MDI 2305 OFF	22.432	3765S-IVB STAGE SEL
S1B		DDA 2099 OFF	22.428	5172VXK0008-603
	IU	LDI 1093 OFF	22.432	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	22.432	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	22.432	0511BIT NO 7 VERIFY
S4B		MDI 1844 OFF	22.432	3928SW SEL ZERO
S1B		DDA 2088 ON	22.432	5164VXK0005-603
S1B		DDA 2094 OFF	22.432	5167VXK0008-603
S1B		DDA 2095 OFF	22.432	5168VXK0008-603
	IU	LDI 1099 ON	22.436	0514S-IVB STAGE SELECTOR
	IU	MDI 0817 OFF	22.436	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	22.436	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF	22.436	3523REG CONT BIT 8 VERIFY IN

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	IU	LDI 1091 ON	22.444	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	22.444	0508BIT NO 4 VERIFY
	IU	LDI 1097 ON	22.444	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	22.444	5166VXK0008-603
S1B		DDA 2099 ON	22.444	5172VXK0008-603
S1B	IU	MDI 2305 OFF	22.460	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON	22.460	3767RESET COMMAND
S1B S4B	IU	-2- 165 RESET	22.460	
S4B		MDI 1844 ON	22.464	3928SW SEL ZERO
	IU	LDI 1103 ON	22.468	0517RESET COMMAND
	IU	MDI 0817 ON	22.468	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	22.468	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	22.468	3523REG CONT BIT 8 VERIFY IN
S4B		LDO 1844 ON	22.468	4535SW SEL ZERO
S1B		DDA 2084 ON	22.468	5160VXK0007-603
S1B		DDA 2099 OFF	22.468	5172VXK0008-603
	IU	LDI 1091 OFF	22.472	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	22.472	0512BIT NO 8 VERIFY
	IU	LDI 1099 OFF	22.472	0514S-IVR STAGE SELECTOR
S1B		DDA 2093 OFF	22.472	5166VXK0008-603
	IU	LDI 1093 OFF	22.476	0508BIT NO 4 VERIFY
S1B	IU	MDI 2305 ON	22.476	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 OFF	22.476	3767RESET COMMAND
	IU	LDI 1099 ON	22.484	0514S-IVR STAGE SELECTOR
S1B		DDA 2088 ON	22.484	5164VXK0005-603
	IU	LDI 1103 OFF	22.488	0517RESET COMMAND
	IU	MDI 0817 OFF	22.488	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	22.488	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	22.488	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	22.488	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	22.488	3523PEG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	22.488	3928SW SEL ZERO
S1B		DDA 2084 OFF	22.488	5160VXK0007-603
	IU	MDI 0816 OFF	22.492	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 ON	22.492	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	22.492	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	22.492	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	22.492	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2095 ON	22.492	5168VXK0008-603
S1B		DDA 2096 ON	22.492	5169VXK0008-603
S1B		DDA 2098 ON	22.492	5171VXK0008-603
S1B		DDA 2099 ON	22.492	5172VXK0008-603
S1B		DDA 2100 ON	22.492	5173VXK0008-603
	IU	LDI 1090 ON	22.496	0505BIT NO 1 VERIFY

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	IU	LDI 1091 ON	22.496	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	22.496	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	22.496	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	22.496	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	22.496	0511BIT NO 7 VERIFY
S4B		LDO 1844 OFF	22.508	4535SW SEL ZERO
S4B		LDO 1844 ON	22.544	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	22.552	3768READ COMMAND
S1B	IU	-2- 210 READ	22.552	
S4B		LDO 1844 OFF	22.508	4535SW SEL ZERO
	IU	LDI 0983 ON	22.560	0463SW SEL READ
	IU	LDI 1102 ON	22.560	0516SW SEL READ
S1B		DDA 2085 ON	22.560	5161VXK0006-603
S1B		DDA 2088 OFF	22.560	5164VXK0005-603
S1B	IU	MDI 2305 OFF	22.588	3765S-IVR STAGE SEL
S1B	IU	MDI 2308 OFF	22.588	3768READ COMMAND
	IU	MDI 0816 ON	22.600	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	22.600	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	22.600	3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844 ON	22.600	3928SW SEL ZERO
	IU	LDI 0983 OFF	22.604	0463SW SEL READ
	IU	LDI 1091 OFF	22.604	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	22.604	0507BIT NO 3 VERIFY
	IU	LDI 1099 OFF	22.604	0514S-IVR STAGE SELECTOR
	IU	LDI 1102 OFF	22.604	0516SW SEL READ
	IU	MDI 0820 ON	22.604	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	22.604	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	22.604	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2085 OFF	22.604	5161VXK0006-603
S1B		DDA 2088 OFF	22.604	5164VXK0005-603
S1B		DDA 2096 OFF	22.604	5169VXK0008-603
S1B		DDA 2098 OFF	22.604	5171VXK0008-603
S1B		DDA 2099 OFF	22.604	5172VXK0008-603
S1B		DDA 2100 OFF	22.604	5173VXK0008-603
	IU	LDI 1090 OFF	22.608	0505BIT NO 1 VERIFY
	IU	LDI 1094 OFF	22.608	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	22.608	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	22.608	0511BIT NO 7 VERIFY
S1B		DDA 2029 OFF	22.608	4080VXK0128-404
S1B		DDA 2094 OFF	22.608	5167VXK0008-603
S1B		DDA 2095 OFF	22.608	5168VXK0008-603
S1B		MDI 2187 OFF	22.616	2596TCS PULSE OK
S4B		LDO 1844 ON	22.660	4535SW SEL ZERO
S1B		LDO 0400 OFF	22.824	4297TIME BASE 3 ENABLE
S4B		DI 2648 ON	22.892	2703LH PREVALVE CLOSED
S4B		DI 2647 ON	22.900	2702LOX PREVALVE CLOSED

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S1B		MDI 2187 ON	22.988	2596TCS PULSE OK
S1B	IU	MDI 2305 ON	23.212	3765S-IVB STAGE SEL
S1B	S4B	MDI 1844 OFF	23.216	3928SW SEL ZERO
S1B		DDA 2088 ON	23.216	5164VXK0005-603
	IU	LDI 1099 ON	23.220	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	23.220	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	23.220	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	23.220	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	23.220	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	23.220	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	23.220	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON	23.228	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	23.228	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	23.228	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	23.228	0509BIT NO 5 VERIFY
	IU	LDI 1097 ON	23.228	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	23.228	5166VXK0008-603
S1B		DDA 2095 ON	23.228	5168VXK0008-603
S1B		DDA 2096 ON	23.228	5169VXK0008-603
S1B		DDA 2099 ON	23.228	5172VXK0008-603
S1B	S4B	LDI 1844 OFF	23.264	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	23.368	3768READ COMMAND
S1B	S4B	-2- 104 READ	23.368	
	IU	LDI 0983 ON	23.376	0463SW SEL READ
	IU	LDI 1102 ON	23.376	0516SW SEL READ
S1B		DDA 2085 ON	23.376	5161VXK0006-603
S1B		DDA 2029 ON	23.380	4080VK0128-404
S1B	IU	MDI 2308 OFF	23.408	3768READ COMMAND
S1B	S4B	MDI 1844 ON	23.416	3928SW SEL ZERO
	IU	LDI 0983 OFF	23.420	0463SW SEL READ
	IU	LDI 1099 OFF	23.420	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	23.420	0516SW SEL READ
	IU	MDI 0817 ON	23.420	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 ON	23.420	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	23.420	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	23.420	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	23.420	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2085 OFF	23.420	5161VXK0006-603
S1B		DDA 2088 OFF	23.420	5164VXK0005-603
S1B		DDA 2029 OFF	23.424	4080VK0128-404
	IU	LDI 1091 OFF	23.428	0506BIT NO 2 VERIFY
S1B	IU	MDI 2305 ON	23.428	3765S-IVB STAGE SEL

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S1B		DDA 2093 OFF 23.428 5166VXK0008-603
S1B		DDA 2099 OFF 23.428 5172VXK0008-603
	IU	LDI 1090 OFF 23.432 0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF 23.432 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 23.432 0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF 23.432 0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF 23.432 0512BIT NO 8 VERIFY
	S4B	MDI 1844 OFF 23.432 3928SW SEL ZERO
S1B		DDA 2088 ON 23.432 5164VXK0005-603
S1B		DDA 2095 OFF 23.432 5168VXK0003-603
S1B		DDA 2096 OFF 23.432 5169VXK0008-603
S1B		DDA 2100 OFF 23.432 5173VXK0008-603
	IU	LDI 1099 ON 23.436 0514S-IVB STAGE SELECTOR
	IU	MDI 0814 OFF 23.436 3514REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 23.436 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF 23.436 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 23.436 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 23.436 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 23.436 3523REG CONT BIT 8 VERIFY IN
	IU	MDI 0816 ON 23.440 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0821 ON 23.440 3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1091 ON 23.444 0506BIT NO 2 VERIFY
	IU	LDI 1094 ON 23.444 0509BIT NO 5 VERIFY
	IU	LDI 1096 ON 23.444 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 23.444 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 23.444 5166VXK0008-603
S1B		DDA 2094 ON 23.444 5167VXK0008-603
S1B		DDA 2096 ON 23.444 5169VXK0008-603
S1B		DDA 2099 ON 23.444 5172VXK0008-603
	S4B	LDI 1844 ON 23.448 4535SW SEL ZERO
	S4B	LDI 1844 OFF 23.500 4535SW SEL ZERO
S1B		MDI 2187 OFF 23.616 2596TCS PULSE OK
S1B	IU	MDI 2308 ON 23.752 3768READ COMMAND
S1B	IU	MDI 2308 OFF 23.752 3768READ COMMAND
	IU	LDI 0983 ON 23.760 0463SW SEL READ
	IU	LDI 1102 ON 23.760 0516SW SEL READ
S1B		DDA 2085 ON 23.760 5161VXK0006-603
S1B		DDA 2029 ON 23.764 4080VK0128-404
S1B	IU	MDI 2305 OFF 23.784 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 23.784 3768READ COMMAND
	S4B	MDI 1844 ON 23.792 3928SW SEL ZERO
	IU	LDI 0983 OFF 23.796 0463SW SEL READ
	IU	LDI 1099 OFF 23.796 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 23.796 0516SW SEL READ
	IU	MDI 0817 ON 23.796 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON 23.796 3520REG CONT BIT 5 VERIFY IN

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	IU	MDI 0822 ON	23.796	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	23.796	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF	23.796	5161VXK0006-603
S1B		DDA 2088 OFF	23.796	5164VXK0005-603
S1B		DDA 2029 OFF	23.800	4080VK0128-404
	IU	LDI 1091 OFF	23.804	0506BIT NO 2 VERIFY
S1B		DDA 2093 OFF	23.804	5166VXK0008-603
S1B		DDA 2096 OFF	23.804	5169VXK0008-603
S1B		DDA 2099 OFF	23.804	5172VXK0008-603
	IU	LDI 1094 OFF	23.808	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	23.808	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	23.808	0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON	23.808	3765S-IVR STAGE SEL
S1B		DDA 2094 OFF	23.808	5167VXK0008-603
	IU	MDI 0822 OFF	23.812	3522REG CONT BIT 7 VERIFY IN
S4B		MDI 1844 OFF	23.812	3928SW SEL ZERO
	IU	MDI 0816 OFF	23.816	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	23.816	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF	23.816	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	23.816	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	23.816	5164VXK0005-603
S1B		DDA 2093 ON	23.816	5166VXK0008-603
S1B		DDA 2094 ON	23.816	5167VXK0008-603
S1B		DDA 2099 ON	23.816	5172VXK0008-603
S1B		DDA 2100 ON	23.816	5173VXK0008-603
	IU	LDI 1090 ON	23.820	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	23.820	0506BIT NO 2 VERIFY
	IU	LDI 1095 ON	23.820	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	23.820	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	23.820	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	23.820	0514S-IVB STAGE SELECTOR
S1B		DDA 2095 ON	23.820	5168VXK0008-603
S1B	IU	MDI 2305 OFF	23.840	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON	23.840	3767RESET COMMAND
S1B S4B	IU	-2- 034 RESET	23.840	
	IU	LDI 1103 ON	23.844	0517RESET COMMAND
S4B		MDI 1844 ON	23.844	3928SW SEL ZERO
		DDA 2084 ON	23.844	5160VXK0007-603
	IU	MDI 0816 ON	23.848	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	23.848	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 ON	23.848	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	23.848	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	23.848	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF	23.852	0506BIT NO 2 VERIFY
S1B	IU	MDI 2307 OFF	23.852	3767RESET COMMAND
S1B		DDA 2086 OFF	23.852	5164VXK0005-603

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S18		DDA	2099	OFF	23.852	5172VXK0008-603
	IU	LDI	1090	OFF	23.856	0505BIT NO 1 VERIFY
	IU	LDI	1095	OFF	23.856	0510BIT NO 6 VERIFY
	IU	LDI	1096	OFF	23.856	0511BIT NO 7 VERIFY
	IU	LDI	1097	OFF	23.856	0512BIT NO 8 VERIFY
	IU	LDI	1099	OFF	23.856	0514S-IVR STAGE SELECTOR
S18	IU	DDA	2305	ON	23.856	3765S-IVR STAGE SEL
S18		DDA	2093	OFF	23.856	5166VXK0008-603
S18		DDA	2094	OFF	23.856	5167VXK0008-603
S18		DDA	2095	OFF	23.856	5168VXK0008-603
S18		DDA	2100	OFF	23.856	5173VXK0008-603
	IU	LDI	1099	ON	23.860	0514S-IVR STAGE SELECTOR
S18		DDA	2088	ON	23.860	5164VXK0005-603
	IU	LDI	1103	OFF	23.864	0517RESET COMMAND
		LDI	1844	OFF	23.864	3928SW SEL ZERO
S18		DDA	2084	OFF	23.864	5160VXK0007-603
	IU	LDI	1090	ON	23.868	0505BIT NO 1 VERIFY
	IU	LDI	1091	ON	23.868	0506BIT NO 2 VERIFY
	IU	LDI	1095	ON	23.868	0510BIT NO 6 VERIFY
	IU	LDI	1096	ON	23.868	0511BIT NO 7 VERIFY
	IU	LDI	1097	ON	23.868	0512BIT NO 8 VERIFY
	IU	LDI	0816	OFF	23.868	3516REG CONT BIT 1 VERIFY IN
	IU	LDI	0817	OFF	23.868	3517REG CONT BIT 2 VERIFY IN
	IU	LDI	0818	OFF	23.868	3518REG CONT BIT 3 VERIFY IN
	IU	LDI	0819	OFF	23.868	3519REG CONT BIT 4 VERIFY IN
	IU	LDI	0820	OFF	23.868	3520REG CONT BIT 5 VERIFY IN
	IU	LDI	0822	OFF	23.868	3522REG CONT BIT 7 VERIFY IN
	IU	LDI	0823	OFF	23.868	3523REG CONT BIT 8 VERIFY IN
S18		DDA	2093	ON	23.868	5166VXK0008-603
S18		DDA	2094	ON	23.868	5167VXK0008-603
S18		DDA	2095	ON	23.868	5168VXK0008-603
S18		DDA	2099	ON	23.868	5172VXK0008-603
S18		DDA	2100	ON	23.868	5173VXK0008-603
	IU	LDI	0816	ON	23.872	3516REG CONT BIT 1 VERIFY IN
	IU	LDI	0822	ON	23.872	3522REG CONT BIT 7 VERIFY IN
	IU	LDI	0823	ON	23.872	3523REG CONT BIT 8 VERIFY IN
	IU	LDI	1092	ON	23.876	0507BIT NO 3 VERIFY
	IU	LDI	1093	ON	23.876	0508BIT NO 4 VERIFY
	IU	LDI	1094	ON	23.876	0509BIT NO 5 VERIFY
S18		DDA	2096	ON	23.876	5169VXK0008-603
S18		DDA	2098	ON	23.876	5171VXK0008-603
	IU	LDI	1090	OFF	23.880	0505BIT NO 1 VERIFY
	IU	LDI	1097	OFF	23.880	0512BIT NO 8 VERIFY
S18		DDA	2093	OFF	23.880	5166VXK0008-603
S18		DDA	2094	OFF	23.880	5167VXK0008-603
S18		DDA	2095	OFF	23.880	5168VXK0008-603

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11		2100	OFF	23.880	5173VXK0008-603
	IU	LDI	1095	OFF	23.884 0510BIT NO 6 VERIFY
	IU	LDI	1096	OFF	23.884 0511BIT NO 7 VERIFY
S4B		LDO	1844	ON	23.892 4535SW SEL ZERO
S4B		LDO	1844	OFF	23.904 4535SW SEL ZERO
S4B		LDO	1844	ON	23.940 4535SW SEL ZERO
S4B		LDO	1844	OFF	23.952 4535SW SEL ZERO
11	IU	MDI	2308	ON	23.968 3768READ COMMAND
S1B	S4B		-2- 341	READ	23.968
S4B		MDI	1677	ON	23.972 3069MRCV RELAYS RESET
	IU	LDI	0983	ON	23.976 0463SW SEL READ
	IU	LDI	1102	ON	23.976 0516SW SEL READ
S1B		DDA	2085	ON	23.976 5161VXK0006-603
11					
S1B		MDI	2187	ON	23.988 2596TCS PULSE OK
S1B	IU	MDI	2305	OFF	24.012 3765S-IVR STAGE SEL
S1B	IU	MDI	2308	OFF	24.012 3768READ COMMAND
	IU	LDI	0983	OFF	24.020 0463SW SEL READ
	IU	LDI	1099	OFF	24.020 0514S-IVR STAGE SELECTOR
	IU	LDI	1102	OFF	24.020 0516SW SEL READ
S4B		MDI	1844	ON	24.020 3928SW SEL ZERO
11					
S1B		DDA	2088	OFF	24.020 5164VXK0005-603
	IU	MDI	0817	ON	24.024 3517REG CONT BIT 2 VERIFY IN
	IU	MDI	0818	ON	24.024 3518REG CONT BIT 3 VERIFY IN
	IU	MDI	0819	ON	24.024 3519REG CONT BIT 4 VERIFY IN
	IU	MDI	0820	ON	24.024 3520REG CONT BIT 5 VERIFY IN
S1B		DDA	2029	OFF	24.024 4080VK0128-404
	IU	LDI	1091	OFF	24.028 0506BIT NO 2 VERIFY
S1B		DDA	2098	OFF	24.028 5171VXK0008-603
S1B		DDA	2099	OFF	24.028 5172VXK0008-603
	IU	LDI	1092	OFF	24.032 0507BIT NO 3 VERIFY
	IU	LDI	1093	OFF	24.032 0508BIT NO 4 VERIFY
	IU	LDI	1094	OFF	24.032 0509BIT NO 5 VERIFY
11					
S4B		LDO	1677	ON	24.048 4752MRCV RELAYS RESET
S4B		LDO	1844	ON	24.088 4535SW SEL ZERO
S1B		MDI	2187	OFF	24.616 2596TCS PULSE OK
S1B	IU	MDI	2306	ON	24.904 3766IU STAGE SEL
	IU	LDI	1098	ON	24.908 0513IU STAGE SELECTOR
	IU	MDI	0782	OFF	24.908 3482SW SEL ZERO IND
	IU	MDI	0817	OFF	24.908 3517REG CONT BIT 2 VERIFY IN
	IU	MDI	0820	OFF	24.908 3520REG CONT BIT 5 VERIFY IN
11		DDA	2086	OFF	24.908 5162VXK0003-603
11		DDA	2087	ON	24.908 5163VXK0005-603
11		DDA	2096	ON	24.908 5169VXK0008-603

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S1*		DDA 2093 ON	24.908	5172VXK0008-603
	IU	LDI 1091 ON	24.912	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	24.912	0509BIT NO 5 VERIFY
	IU	MDI 0821 OFF	24.912	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	24.912	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON	24.916	5166VXK0008-603
	IU	LDI 1095 ON	24.920	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	24.920	0512BIT NO 8 VERIFY
S1B		DDA 2095 ON	24.920	5168VXK0008-603
S1B		DDA 2097 ON	24.924	5170VXK0008-603
S1B	IU	MDI 2308 ON	25.060	3768READ COMMAND
S1B S4B	IU	-3- 115 READ	25.060	
S1B		DDA 2149 ON	25.064	4134VK0004-603
	IU	LDI 0983 ON	25.068	0463SW SEL READ
	IU	LDI 1102 ON	25.068	0516SW SEL READ
S1B		DDA 2085 ON	25.068	5161VXK0006-603
S1B	IU	MDI 2306 OFF	25.100	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	25.100	3768READ COMMAND
S1B		DDA 2110 OFF	25.100	5183VK0020-602
	IU	LDI 0983 OFF	25.112	0463SW SEL READ
	IU	LDI 1098 OFF	25.112	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	25.112	0516SW SEL READ
	IU	MDI 0782 ON	25.112	3482SW SEL ZERO IND
	IU	MDI 0817 ON	25.112	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	25.112	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	25.112	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	25.112	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF	25.112	5161VXK0006-603
S1B		DDA 2087 OFF	25.112	5163VXK0005-603
	IU	LDI 1091 OFF	25.120	0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF	25.120	4134VK0004-603
S1B		DDA 2086 ON	25.120	5162VXK0003-603
S1B		DDA 2093 OFF	25.120	5166VXK0008-603
S1B		DDA 2096 OFF	25.120	5169VXK0008-603
S1B		DDA 2099 OFF	25.120	5172VXK0008-603
	IU	LDI 1094 OFF	25.124	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	25.124	0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF	25.124	0512BIT NO 8 VERIFY
S1B	IU	MDI 2306 ON	25.124	3766IU STAGE SEL
S1B		DDA 2095 OFF	25.124	5168VXK0008-603
	IU	LDI 1098 ON	25.128	0513IU STAGE SELECTOR
	IU	MDI 0817 OFF	25.128	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	25.128	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	25.128	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	25.128	3523REG CONT BIT 8 VERIFY IN

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	IU	MDI 0816 OFF	25.132	3516REG	CONT BIT 1	VERIFY IN
	IU	MDI 0818 OFF	25.132	3518REG	CONT BIT 3	VERIFY IN
	IU	MDI 0819 OFF	25.132	3519REG	CONT BIT 4	VERIFY IN
	IU	MDI 0822 OFF	25.132	3522REG	CONT BIT 7	VERIFY IN
	IU	LDI 1090 ON	25.136	0505BIT	NO 1	VERIFY
	IU	LDI 1091 ON	25.136	0506BIT	NO 2	VERIFY
	IU	LDI 1092 ON	25.136	0507BIT	NO 3	VERIFY
	IU	LDI 1093 ON	25.136	0508BIT	NO 4	VERIFY
	IU	LDI 1094 ON	25.136	0509BIT	NO 5	VERIFY
	IU	LDI 1095 ON	25.136	0510BIT	NO 6	VERIFY
	IU	LDI 1096 ON	25.136	0511BIT	NO 7	VERIFY
	IU	LDI 1097 ON	25.136	0512BIT	NO 8	VERIFY
S1B		DDA 2093 ON	25.136	5166VXK0008-603		
S1B		DDA 2094 ON	25.136	5167VXK0008-603		
S1B		DDA 2095 ON	25.136	5168VXK0008-603		
S1B		DDA 2096 ON	25.136	5169VXK0008-603		
S1B		DDA 2098 ON	25.136	5171VXK0008-603		
S1B		DDA 2099 ON	25.136	5172VXK0008-603		
S1B		DDA 2100 ON	25.136	5173VXK0008-603		
S1B	IU	MDI 2306 OFF	25.156	3766IU	STAGE SEL	
S1B	IU	MDI 2307 ON	25.156	3767RESET	COMMAND	
S1B S4B	IU	-3- 000 RESET	25.156			
	IU	LDI 1103 ON	25.160	0517RESET	COMMAND	
		DDA 2087 OFF	25.160	5163VXK0005-603		
S1B		LDI 1098 OFF	25.164	0513IU	STAGE SELECTOR	
	IU	MDI 0816 ON	25.164	3516REG	CONT BIT 1	VERIFY IN
	IU	MDI 0817 ON	25.164	3517REG	CONT BIT 2	VERIFY IN
	IU	MDI 0818 ON	25.164	3518REG	CONT BIT 3	VERIFY IN
	IU	MDI 0819 ON	25.164	3519REG	CONT BIT 4	VERIFY IN
	IU	MDI 0820 ON	25.164	3520REG	CONT BIT 5	VERIFY IN
	IU	MDI 0821 ON	25.164	3521REG	CONT BIT 6	VERIFY IN
	IU	MDI 0822 ON	25.164	3522REG	CONT BIT 7	VERIFY IN
	IU	LDI 1091 OFF	25.168	0506BIT	NO 2	VERIFY
		DDA 2093 OFF	25.172	5166VXK0008-603		
	IU	LDI 1090 OFF	25.172	0505BIT	NO 1	VERIFY
	IU	LDI 1092 OFF	25.172	0507BIT	NO 3	VERIFY
	IU	LDI 1093 OFF	25.172	0508BIT	NO 4	VERIFY
	IU	LDI 1094 OFF	25.172	0509BIT	NO 5	VERIFY
	IU	LDI 1096 OFF	25.172	0511BIT	NO 7	VERIFY
	IU	LDI 1097 OFF	25.172	0512BIT	NO 8	VERIFY
S1B	IU	MDI 2306 ON	25.172	3766IU	STAGE SEL	
S1B	IU	MDI 2307 OFF	25.172	3767RESET	COMMAND	
S1B		DDA 2093 OFF	25.172	5166VXK0008-603		
S1B		DDA 2094 OFF	25.172	5167VXK0008-603		

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S18		DDA 2095 OFF 25.172 5168VXK0008-603
S18		DDA 2096 OFF 25.172 5169VXK0008-603
S18		DDA 2098 OFF 25.172 5171VXK0008-603
S18		DDA 2100 OFF 25.172 5173VXK0008-603
	IU	LDI 1095 OFF 25.176 0510BIT NO 6 VERIFY
	IU	LDI 1098 ON 25.176 0513IU STAGE SELECTOR
S18		DDA 2087 ON 25.176 5163VXK0005-603
	IU	LDI 1103 OFF 25.180 0517RESET COMMAND
	IU	MDI 0818 OFF 25.180 3518REG CONT BIT 3 VERIFY IN
S18		DDA 2084 OFF 25.180 5160VXK0007-603
	IU	LDI 1090 ON 25.184 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 25.184 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 25.184 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 25.184 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 25.184 0509BIT NO 5 VERIFY
	IU	LDI 1096 ON 25.184 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 25.184 0512BIT NO 8 VERIFY
	IU	MDI 0782 OFF 25.184 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 25.184 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 25.184 3518REG CONT BIT 3 VERIFY IN
S18		DDA 2086 OFF 25.184 5162VXK0003-603
S18		DDA 2093 ON 25.184 5166VXK0008-603
S18		DDA 2094 ON 25.184 5167VXK0008-603
S18		DDA 2095 ON 25.184 5168VXK0008-603
S18		DDA 2096 ON 25.184 5169VXK0008-603
S18		DDA 2098 ON 25.184 5171VXK0008-603
S18		DDA 2099 ON 25.184 5172VXK0008-603
S18		DDA 2100 ON 25.184 5173VXK0008-603
	IU	LDI 1095 ON 25.188 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 25.196 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 25.196 0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF 25.196 0512BIT NO 8 VERIFY
S18		DDA 2093 OFF 25.196 5166VXK0008-603
S18		DDA 2094 OFF 25.196 5167VXK0008-603
S18		DDA 2096 OFF 25.196 5169VXK0008-603
S18		DDA 2098 OFF 25.196 5171VXK0008-603
S18		DDA 2100 OFF 25.196 5173VXK0008-603
	IU	LDI 1093 OFF 25.200 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 25.200 0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF 25.200 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 25.200 0511BIT NO 7 VERIFY
S18		DDA 2095 OFF 25.200 5168VXK0008-603
S18	IU	MDI 2308 ON 25.252 3768READ COMMAND
S18 142	IU	-3- 375 READ 25.252
	IU	LDI 0983 ON 25.260 0463SW SEL READ
	IU	LDI 1102 ON 25.260 0516SW SEL READ

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S18		DDA 2085 ON	25.260	5161VXK0006-603
S18		DDA 2149 ON	25.264	4134VK0004-603
S18	IU	MDI 2306 OFF	25.288	3766IU STAGE SEL
S18	IU	MDI 2308 OFF	25.288	3768READ COMMAND
	IU	LDI 0983 OFF	25.304	0463SW SEL READ
	IU	LDI 1098 OFF	25.304	0516SW SEL READ
	IU	MDI 0782 ON	25.304	3482SW SEL ZERO IND
	IU	MDI 0817 ON	25.304	3517REG CONT BIT 2 VERIFY IN
S18		DDA 2085 OFF	25.304	5161VXK0006-603
S18		DDA 2087 OFF	25.304	5163VXK0005-603
S18		DDA 2088 ON	25.304	5164VXK0005-603
	IU	LDI 1091 OFF	25.312	0506BIT NO 2 VERIFY
S18	IU	MDI 2305 ON	25.312	3765S-IVB STAGE SEL
S18		DDA 2149 OFF	25.312	4134VK0004-603
S18		DDA 2099 OFF	25.312	5172VXK0008-603
S4B		MDI 1844 OFF	25.316	3928SW SEL ZERO
S18		DDA 2088 ON	25.316	5164VXK0005-603
	IU	LDI 1099 ON	25.320	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	25.320	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	25.320	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 OFF	25.320	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	25.320	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2094 ON	25.324	5167VXK0006-603
	IU	LDI 1090 ON	25.328	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	25.328	0506BIT NO 2 VERIFY
	IU	LDI 1096 ON	25.328	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	25.328	0512BIT NO 8 VERIFY
S18		DDA 2099 ON	25.328	5172VXK0008-603
S18		DDA 2100 ON	25.328	5173VXK0008-603
S4B		LDO 1844 OFF	25.368	4535SW SEL ZERO
S18	IU	MDI 2308 ON	25.484	3768READ COMMAND
S18	S4B IU	-2- 074 READ	25.484	
S4B		MDI 1704 ON	25.488	3082AUX HYD PUMP FLT REL RSE
S4B		MDI 1705 OFF	25.488	3083AUX HYD PUMP POWER ON
S4B		MDI 1837 ON	25.488	3921RDY FOR 4D411 PWR
S4B		MDI 1992 OFF	25.488	3984AUX HYD P FLT REL RS OFF
	IU	LDI 0983 ON	25.492	0463SW SEL READ
	IU	LDI 1102 ON	25.492	0516SW SEL READ
S18		DDA 2085 ON	25.492	5161VXK0006-603
S18		DDA 2029 ON	25.496	4080VK0128-404
S18	IU	MDI 2305 OFF	25.532	3765S-IVP STAGE SEL
S18	IU	MDI 2308 OFF	25.532	3768READ COMMAND
S4B		MDI 1844 ON	25.540	3928SW SEL ZERO
S4B		LDO 1704 ON	25.540	4765AUX HYD PUMP FLT REL RSE

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S4B		LDO 1705 OFF 25.540 4766AUX HYD PUMP POWER ON
	IU	LDI 0983 OFF 25.544 0463SW SEL READ
	IU	LDI 1099 OFF 25.544 0514S-IVR STAGE SELECTOR
	IU	LDI 1102 OFF 25.544 0516SW SEL READ
	IU	MDI 0816 ON 25.544 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 25.544 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 ON 25.544 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 25.544 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF 25.544 5161VXK0006-603
S1B		DDA 2088 OFF 25.544 5164VXK0005-603
	S4B	LDO 1837 ON 25.548 4528RCY FOR 4D411 PWR
	IU	LDI 1091 OFF 25.552 0505BIT NO 1 VERIFY
S1B		DDA 2029 OFF 25.552 4080VK0128-404
	IU	LDI 1090 OFF 25.556 0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF 25.556 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 25.556 0512BIT NO 8 VERIFY
S1B		DDA 2094 OFF 25.556 5167VXK0008-603
S1B		DDA 2100 OFF 25.556 5173VXK0008-603
	S4B	LDO 1992 OFF 25.564 4712AUX HYD P FLT REL RS OFF
	IU	MDI 2187 OFF 25.616 2596TCS PULSE OK
S1B		MDI 2306 ON 26.404 3766IU STAGE SEL
	IU	LDI 1091 OFF 26.408 0511BIT NO 7 VERIFY
	IU	MDI 0817 OFF 26.408 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0782 OFF 26.412 3482SW SEL ZERO IND
	IU	MDI 0818 OFF 26.412 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 26.412 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF 26.412 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 26.412 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2094 ON 26.416 5167VXK0008-603
S1B		DDA 2099 ON 26.416 5172VXK0008-603
	IU	LDI 1091 ON 26.420 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 26.420 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 26.420 0508BIT NO 4 VERIFY
	IU	LDI 1096 ON 26.420 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 26.420 0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF 26.420 5162VXK0003-603
S1B	IU	MDI 2306 OFF 26.440 3766IU STAGE SEL
S1B	IU	MDI 2307 ON 26.440 3767RESET COMMAND
S1B S4B	IU	-3- 061 RESET 26.440

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	IU	MDI 0782 ON	26.448	3482SW SEL ZERO IND
	IU	MDI 0817 ON	26.448	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	26.448	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	26.448	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	26.448	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	26.448	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF	26.452	0506BIT NO 2 VERIFY
	IU	LDI 1103 ON	26.452	0517RESET COMMAND
S1B		DDA 2084 ON	26.452	5160VXK0007-603
S1B		DDA 2086 ON	26.452	5162VXK0003-603
S1B		DDA 2087 OFF	26.452	5163VXK0005-603
S1B		DDA 2098 OFF	26.452	5171VXK0008-603
S1B		DDA 2099 OFF	26.452	5172VXK0008-603
	IU	LDI 1092 OFF	26.456	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	26.456	0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF	26.456	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	26.456	0512BIT NO 8 VERIFY
	IU	LDI 1098 OFF	26.456	0513IU STAGE SELECTOR
S1B	IU	MDI 2306 0	26.456	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	26.456	3767RESET COMMAND
S1B		DDA 2087 ON	26.456	5163VXK0005-603
S1B		DDA 2092 ON	26.456	5164VXK0008-603
S1B		DDA 2094 OFF	26.456	5167VXK0008-603
	IU	LDI 1098 ON	26.468	0513IU STAGE SELECTOR
	IU	LDI 1091 ON	26.468	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	26.468	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	26.468	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	26.468	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	26.468	0512BIT NO 8 VERIFY
	IU	MDI 0782 OFF	26.468	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	26.468	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	26.468	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	26.468	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	26.468	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2093 ON	26.468	5166VXK0008-603
S1B		DDA 2094 ON	26.468	5167VXK0008-603
S1B		DDA 2098 ON	26.468	5171VXK0008-603
S1B		DDA 2099 ON	26.468	5172VXK0008-603
	IU	LDI 1103 OFF	26.472	0517RESET COMMAND
S1B		DDA 2084 OFF	26.472	5160VXK0007-603
	IU	LDI 1090 ON	26.476	0505BIT NO 1 VERIFY
	IU	LDI 1094 ON	26.476	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	26.476	0510BIT NO 6 VERIFY
S1B		DDA 2086 OFF	26.476	5162VXK0003-603
S1B		DDA 2095 ON	26.476	5168VXK0008-603
S1B		DDA 2096 ON	26.476	5169VXK0008-603

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118		DDA 2100 ON 26.476 5173VXK0008-603
	IU	LDI 1092 OFF 26.480 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 26.480 0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF 26.480 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 26.480 0512BIT NO 8 VERIFY
S18		DDA 2093 OFF 26.480 5166VXK0008-603
S18		DDA 2094 OFF 26.480 5167VXK0008-603
S18		DDA 2098 OFF 26.480 5171VXK0008-603
S18	IU	MDI 2308 ON 26.572 3768READ COMMAND
118	IU	-3- 314 READ 26.572
	IU	LDI 0983 ON 26.576 0463SW SEL READ
	IU	LDI 1102 ON 26.576 0516SW SEL READ
S18		DDA 2085 OFF 26.576 5161VXK0006-603
S18		DDA 2149 OFF 26.580 4134VXK0004-603
S18		MDI 2187 OFF 26.616 2596TCS PULSE OK
S18	IU	MDI 2306 OFF 26.628 3766IU STAGE SEL
S18	IU	MDI 2308 OFF 26.628 3768READ COMMAND
	IU	LDI 0983 OFF 26.636 0463SW SEL READ
	IU	LDI 1096 OFF 26.636 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 26.636 0516SW SEL READ
S18		DDA 2085 OFF 26.636 5161VXK0006-603
S18		DDA 2087 OFF 26.636 5163VXK0005-603
	IU	MDI 0816 ON 26.640 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 26.640 3517REG CONT BIT 2 VERIFY IN
	IU	LDI 1091 OFF 26.644 0506BIT NO 2 VERIFY
	IU	MDI 0782 ON 26.644 3482SW SEL ZERO IND
	IU	MDI 0820 ON 26.644 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 26.644 3521REG CONT BIT 6 VERIFY IN
S18		DDA 2149 OFF 26.644 4134VXK0004-603
S18		DDA 2099 OFF 26.644 5172VXK0008-603
S18		DDA 2111 OFF 26.648 0505BIT NO 1 VERIFY
	IU	LDI 1090 OFF 26.648 0510BIT NO 6 VERIFY
	IU	LDI 1094 OFF 26.648 0511BIT NO 7 VERIFY
	IU	LDI 1095 OFF 26.648 0512BIT NO 8 VERIFY
S18		DDA 2095 OFF 26.648 5168VXK0008-603
S18		DDA 2096 OFF 26.648 5169VXK0008-603
S18		MDI 2187 ON 26.988 2596TCS PULSE OK
S18	IU	MDI 2306 ON 27.404 3766IU STAGE SEL
	IU	LDI 1098 ON 27.408 0513IU STAGE SELECTOR
S18		DDA 2087 OFF 27.408 5163VXK0005-603
	IU	MDI 0782 OFF 27.412 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 27.412 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF 27.412 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 27.412 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 27.412 3523REG CONT BIT 8 VERIFY IN

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		DDA 2093 ON	27.416	5166VXK0008-603
		DDA 2094 ON	27.416	5167VXK0008-603
		DDA 2099 ON	27.416	5172VXK0008-603
	IU	LDI 1091 ON	27.420	0506BIT NO 2 VERIFY
	IU	LDI 1095 ON	27.420	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	27.420	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	27.420	0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF	27.420	5162VXK0003-603
S1B		DDA 2095 ON	27.420	5168VXK0008-603
S1B	IU	MDI 2306 OFF	27.448	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	27.448	3767RESET COMMAND
S1B S4B	IU	-3- 035 RESE	27.448	
	IU	LDI 1098 OFF	27.452	0513IU STAGE SELECTOR
	IU	MDI 0817 ON	27.452	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0823 ON	27.452	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF	27.452	5160VXK0007-603
S1B		DDA 2087 OFF	27.452	5163VXK0005-603
	IU	MDI 0782 ON	27.456	3482SW SEL ZERO IND
	IU	MDI 0821 ON	27.456	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	27.456	3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1091 OFF	27.460	0506BIT NO 2 VERIFY
S1B	IU	MDI 2306 ON	27.460	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	27.460	3767RESET COMMAND
S1B		DDA 2086 ON	27.460	5162VXK0003-603
S1B		DDA 2099 OFF	27.460	5172VXK0008-603
	IU	LDI 1095 OFF	27.464	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	27.464	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	27.464	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	27.464	5166VXK0008-603
S1B		DDA 2094 OFF	27.464	5167VXK0008-603
S1B		DDA 2095 OFF	27.464	5168VXK0008-603
	IU	LDI 1098 ON	27.468	0513IU STAGE SELECTOR
S1B		DDA 2087 ON	27.468	5163VXK0005-603
	IU	MDI 0782 OFF	27.472	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	27.472	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	27.472	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF	27.472	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	27.472	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	27.472	3523REG CONT BIT 8 VERIFY IN
		DDA 2084 OFF	27.472	5160VXK0007-603
	IU	LDI 1090 ON	27.476	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	27.476	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	27.476	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	27.476	0508BIT NO 4 VERIFY

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	IU	LDI 1094 ON	27.476	0509BIT NO 5 VERIFY	
	IU	MDI 0816 OFF	27.476	3516REG CONT BIT 1 VERIFY IN	
	IU	MDI 0819 OFF	27.476	3519REG CONT BIT 4 VERIFY IN	
	IU	MDI 0820 OFF	27.476	3520REG CONT BIT 5 VERIFY IN	
	IU	MDI 0821 ON	27.476	3521REG CONT BIT 6 VERIFY IN	
	IU	MDI 0822 ON	27.476	3522REG CONT BIT 7 VERIFY IN	
	IU	MDI 0823 ON	27.476	3523REG CONT BIT 8 VERIFY IN	
S1B		DDA 2086 OFF	27.476	5162VXK0003-603	
S1B		DDA 2096 ON	27.476	5169VXK0008-603	
S1B		DDA 2098 ON	27.476	5171VXK0008-603	
S1B		DDA 2099 ON	27.476	5172VXK0008-603	
S1B		DDA 2100 ON	27.476	5173VXK0008-603	
S1B	IU	MDI 2308 ON	27.552	3768READ COMMAND	
S1B	IU	-3- 398 0242	27.792		
	IU	LDI 0983 ON	27.560	0463SW SEL READ	
	IU	LDI 1102 ON	27.560	0516SW SEL READ	
S1B		DDA 2085 ON	27.560	5161VXK0006-603	
S1B		DDA 2149 OFF	27.596	4134VXK0004-603	
S1B	IU	MDI 2306 OFF	27.564	3766IU STAGE SEL	
S1B	IU	MDI 2308 OFF	27.564	3768READ COMMAND	
	IU	LDI 0983 OFF	27.596	0463SW SEL READ	
	IU	LDI 1098 OFF	27.596	0513IU STAGE SELECTOR	
	IU	LDI 1102 OFF	27.596	0516SW SEL READ	
	IU	MDI 0782 ON	27.596	3482SW SEL ZERO IND	
	IU	MDI 0816 ON	27.596	3516REG CONT BIT 1 VERIFY IN	
	IU	MDI 0817 ON	27.596	3517REG CONT BIT 2 VERIFY IN	
	IU	MDI 0818 ON	27.596	3518REG CONT BIT 3 VERIFY IN	
	IU	MDI 0819 ON	27.596	3519REG CONT BIT 4 VERIFY IN	
	IU	MDI 0820 ON	27.596	3520REG CONT BIT 5 VERIFY IN	
S1B		DDA 2087 OFF	27.596	5163VXK0005-603	
S1B		DDA 2149 OFF	27.600	4134VXK0004-603	
S1B		DDA 2086 ON	27.600	5162VXK0003-603	
S1B		DDA 2099 OFF	27.600	5172VXK0008-603	
	IU	LDI 1090 OFF	27.604	0505BIT NO 1 VERIFY	
	IU	LDI 1091 OFF	27.604	0506BIT NO 2 VERIFY	
	IU	LDI 1092 OFF	27.604	0507BIT NO 3 VERIFY	
S1B		DDA 2096 OFF	27.604	5169VXK0008-603	
S1B		DDA 2098 OFF	27.604	5171VXK0008-603	
S1B		DDA 2100 OFF	27.604	5173VXK0008-603	
	IU	LDI 1093 OFF	27.608	0508BIT NO 4 VERIFY	
	IU	LDI 1094 OFF	27.608	0509BIT NO 5 VERIFY	
S1B		MDI 2187 OFF	27.616	2596TCS PULSE OK	
S1B		MDI 2187 ON	27.988	2596TCS PULSE OK	
S1B		MDI 2187 OFF	28.616	2596TCS PULSE OK	
S1B		MDI 2187 ON	28.988	2596TCS PULSE OK	

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S1		MDI 2187 OFF	29.616	2596TCS PULSE OK
S1		MDI 2187 ON	29.988	2596TCS PULSE OK
S1		MDI 2187 OFF	30.616	2596TCS PULSE OK
S1		MDI 2187 ON	30.988	2596TCS PULSE OK
S1	IU	MDI 2306 ON	31.404	3766IU STAGE SEL
	IU	LDI 1098 ON	31.408	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	31.408	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	31.408	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	31.408	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	31.408	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	31.408	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	31.408	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2087 ON	31.408	5163VXK0005-603
	IU	MDI 0823 OFF	31.412	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON	31.416	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	31.416	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	31.416	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	31.416	0508BIT NO 4 VERIFY
	IU	LDI 1097 ON	31.416	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	31.416	5166VXK0008-603
S1B		DDA 2098 ON	31.416	5171VXK0008-603
S1B		DDA 2100 ON	31.416	5173VXK0008-603
	IU	LDI 1094 ON	31.420	0509BIT NO 5 VERIFY
S1B	IU	MDI 2306 OFF	31.436	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	31.436	3767RESET COMMAND
S1B S4B	IU	-3- 140 RESET	31.436	
S1		DDA 2087 OFF	31.444	5163VXK0005-603
	IU	LDI 1098 OFF	31.444	0513IU STAGE SELECTOR
	IU	LDI 1103 ON	31.444	0517RESET COMMAND
	IU	MDI 0782 ON	31.444	3482SW SEL ZERO IND
	IU	MDI 0816 ON	31.444	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	31.444	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	31.444	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	31.444	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	31.444	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	31.444	3523REG CONT BIT 8 VERIFY IN
S1		DDA 2087 OFF	31.444	5163VXK0005-603
	IU	LDI 1091 OFF	31.452	0506BIT NO 2 VERIFY
S1	IU	MDI 2306 ON	31.452	3766IU STAGE SEL
S1	IU	MDI 2307 OFF	31.452	3767RESET COMMAND
S1		DDA 2086 ON	31.452	5162VXK0003-603
S1		DDA 2093 OFF	31.452	5166VXK0008-603
S1		DDA 2098 OFF	31.452	5171VXK0008-603

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S1B		DDA 2099 OFF 31.452 5172VXK0008-603
S1B		DDA 2100 OFF 31.452 5173VXK0008-603
	IU	LDI 1090 OFF 31.456 0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF 31.456 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 31.456 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 31.456 0510BIT NO 5 VERIFY
	IU	LDI 1097 OFF 31.456 0512BIT NO 8 VERIFY
S1B		DDA 2087 ON 31.456 5163VXK0005-603
S1B		DDA 2096 OFF 31.456 5169VXK0008-603
	IU	LDI 1098 ON 31.460 0513IU STAGE SELECTOR
S1B		DDA 2084 OFF 31.460 5160VXK0007-603
	IU	LDI 1103 OFF 31.464 0517RESET COMMAND
	IU	MDI 0782 OFF 31.464 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 31.464 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF 31.464 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 31.464 3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1091 ON 31.468 0506BIT NO 2 VERIFY
	IU	LDI 1096 ON 31.468 0511BIT NO 7 VERIFY
S1B		DDA 2086 OFF 31.468 5162VXK0003-603
S1B		DDA 2094 ON 31.468 5167VXK0008-603
S1B		DDA 2095 ON 31.468 5168VXK0008-603
S1B		DDA 2099 ON 31.468 5172VXK0008-603
S1B	IU	MDI 2308 ON 31.568 3768READ COMMAND
S1B S4B	IU	-3- 235 READ 31.568
S1B		DDA 2149 ON 31.572 4134VK0004-603
	IU	LDI 0983 ON 31.576 0463SW SEL READ
	IU	LDI 1102 ON 31.576 0516SW SEL READ
S1B		DDA 2085 ON 31.576 5161VXK0006-603
S1B	IU	MDI 2306 OFF 31.608 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 31.608 3768READ COMMAND
S1B		MDI 2187 OFF 31.616 2596TCS PULSE OK
	IU	LDI 0983 OFF 31.620 0463SW SEL READ
	IU	LDI 1098 OFF 31.620 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 31.620 0516SW SEL READ
	IU	MDI 0782 ON 31.620 3482SW SEL ZERO IND
	IU	MDI 0817 ON 31.620 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 ON 31.620 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 31.620 3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2085 OFF 31.620 5161VXK0006-603
S1B		DDA 2087 OFF 31.620 5163VXK0005-603
S1B		DDA 2086 ON 31.624 5162VXK0003-603
S1B		DDA 2099 OFF 31.624 5172VXK0008-603
	IU	LDI 1091 OFF 31.628 0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF 31.628 4134VK0004-603
S1B		DDA 2094 OFF 31.628 5167VXK0008-603

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	IU	LDI 1095 OFF	31.632	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	31.632	0511BIT NO 7 VERIFY
S1B	IU	MDI 2305 ON	31.632	3765S-IVB STAGE SEL
S1B		DDA 2095 OFF	31.632	5168VXK0008-603
	IU	MDI 0816 OFF	31.636	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	31.636	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 OFF	31.636	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	31.636	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	31.636	3928SW SEL ZERO
	IU			
	IU	MDI 0821 OFF	31.640	3521REG CONT BIT 6 VERIFY IN
	IU			
S1B		DDA 2088 ON	31.640	5164VXK0005-603
S1B		DDA 2093 ON	31.640	5166VXK0008-603
S1B		DDA 2099 ON	31.640	5172VXK0008-603
S1B		DDA 2100 ON	31.640	5173VXK0008-603
	IU	LDI 1090 ON	31.644	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	31.644	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	31.644	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	31.644	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	31.644	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	31.644	0514S-IVB STAGE SELECTOR
S1B		DDA 2095 ON	31.644	5168VXK0008-603
S1B	IU	MDI 2305 OFF	31.660	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	31.660	3767RESET COMMAND
S1B S4B	IU	-2- 124 RESET	31.660	
S4B		MDI 1844 ON	31.664	3928SW SEL ZERO
	IU	LDI 1099 OFF	31.668	0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON	31.668	0517RESET COMMAND
	IU	MDI 0816 ON	31.668	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	31.668	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	31.668	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	31.668	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	31.668	5160VXK0007-603
S1B		DDA 2088 OFF	31.668	5164VXK0005-603
	IU	MDI 0821 ON	31.672	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1091 OFF	31.676	0506BIT NO 2 VERIFY
S1B	IU	MDI 2305 ON	31.676	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	31.676	3767RESET COMMAND
S1B		DDA 2099 OFF	31.676	5172VXK0008-603
	IU	LDI 1090 OFF	31.680	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	31.680	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	31.680	0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF	31.680	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	31.680	5166VXK0008-603
S1B		DDA 2095 OFF	31.680	5168VXK0008-603

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S1B		LDI 1099 ON	31.684	55145-IVR STAGE SELECTOR
S4B		LDO 1844 OFF	31.684	4535SW SEL ZERO
S1B		DDA 2088 ON	31.684	5164VXK0005-603
S4B		LDI 1103 OFF	31.688	0517RESET COMMAND
S1B		MDI 1844 OFF	31.688	3928SW SEL ZERO
		DDA 2084 OFF	31.688	5160VXK0007-603
	IU	LDI 1090 ON	31.692	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	31.692	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	31.692	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	31.692	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	31.692	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	31.692	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	31.692	0511BIT NO 7 VERIFY
	IU	MDI 0816 OFF	31.692	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	31.692	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	31.692	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	31.692	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	31.692	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	31.692	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	31.692	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2093 ON	31.692	5166VXK0008-603
S1B		DDA 2095 ON	31.692	5168VXK0008-603
S1B		DDA 2099 ON	31.692	5172VXK0008-603
S1B		DDA 2100 ON	31.692	5173VXK0008-603
	IU	LDI 1090 ON	31.700	0505BIT NO 1 VERIFY
	IU	LDI 1092 ON	31.700	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	31.700	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	31.700	0511BIT NO 7 VERIFY
S1B		DDA 2094 ON	31.700	5167VXK0008-603
S1B		DDA 2096 ON	31.700	5169VXK0008-603
S1B		DDA 2098 ON	31.700	5171VXK0008-603
	IU	LDI 1090 OFF	31.704	0505BIT NO 1 VERIFY
	IU	LDI 1097 OFF	31.704	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	31.704	5166VXK0008-603
S1B		DDA 2095 OFF	31.704	5168VXK0008-603
S1B		DDA 2100 OFF	31.704	5173VXK0008-603
	IU	LDI 1093 OFF	31.708	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	31.708	0510BIT NO 6 VERIFY
S4B		LDO 1844 ON	31.720	4535SW SEL ZERO
S4B		LDO 1844 OFF	31.760	4535SW SEL ZERO
S1B		MDI 2308 ON	31.964	3768READ COMMAND
S1B S4B	IU	-2- 251 READ	31.964	
	IU	LDI 0983 ON	31.968	0463SW SEL READ
	IU	LDI 1102 ON	31.968	0516SW SEL READ
S1B		DDA 2029 ON	31.968	4080VXK0128-404
S1B		DDA 2085 ON	31.968	5161VXK0006-603
S4B		MDI 1931 ON	31.980	3941LH LATCH RLF VLV OPEN
S1B		MDI 2305 OFF	32.012	3768S-IVR STAGE SEL

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S1B	IU	MDI 2308	OFF	32.012	3768READ COMMAND
	IU	LDI 0983	OFF	32.020	0463SW SEL READ
	IU	LDI 1099	OFF	32.020	0514S-IVR STAGE SELECTOR
S4B	IU	LDI 1102	OFF	32.020	0516SW SEL READ
		MDI 1844	ON	32.020	3928SW SEL ZERO
S1B		DDA 2085	OFF	32.020	5161VXK0006-603
		DDA 2088	OFF	32.020	5164VXK0005-603
	IU	MDI 0817	ON	32.024	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	ON	32.024	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820	ON	32.024	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822	ON	32.024	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2099	OFF	32.024	5172VXK0008-603
	IU	LDI 1091	OFF	32.028	0506BIT NO 2 VERIFY
	IU	LDI 1092	OFF	32.028	0507BIT NO 3 VERIFY
S1B		DDA 2094	OFF	32.028	5167VXK0008-603
S1B		DDA 2098	OFF	32.028	5171VXK0008-603
	IU	LDI 1094	OFF	32.032	0509BIT NO 5 VERIFY
	IU	LDI 1096	OFF	32.032	0511BIT NO 7 VERIFY
S1B		DDA 2029	OFF	32.032	4080VK0128-404
S4B		LDO 1931	ON	32.046	4549LH LATCH RLF VLV OPEN
S1B		MDI 2187	OFF	32.616	2596TCS PULSE OK
S1B		MDI 2187	ON	32.988	2596TCS PULSE OK
S1B		MDI 2187	OFF	33.616	2596TCS PULSE OK
S1B	IU	MDI 2305	ON	33.804	3765S-IVR STAGE SEL
	IU	LDI 1099	OFF	33.808	0514S-IVR STAGE SELECTOR
S4B		MDI 1844	OFF	33.808	3928SW SEL ZERO
S1B		DDA 2088	ON	33.808	5164VXK0005-603
	IU	MDI 0816	OFF	33.812	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	OFF	33.812	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820	OFF	33.812	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822	OFF	33.812	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	33.812	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090	OFF	33.816	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	33.816	0506BIT NO 2 VERIFY
	IU	LDI 1094	ON	33.816	0509BIT NO 5 VERIFY
	IU	LDI 1096	ON	33.816	0511BIT NO 7 VERIFY
	IU	LDI 1097	ON	33.816	0512BIT NO 8 VERIFY
		DDA 2093	ON	33.816	5166VXK0008-603
		DDA 2094	ON	33.816	5167VXK0008-603
		DDA 2096	ON	33.816	5169VXK0008-603
		DDA 2099	ON	33.816	5172VXK0008-603
		DDA 2100	ON	33.816	5173VXK0008-603
S1B	IU	MDI 2305	OFF	33.844	3765S-IVR STAGE SEL
S1B	IU	MDI 2307	ON	33.844	3767RESET COMMAND

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311	048	IN	-2-	054	RESET	33.844	
	048			MDI	1844 ON	33.848	3928SW SEL ZERO
312				DDA	2084 ON	33.848	5160VXK0007-603
		IN		LDI	1099 OFF	33.852	0514S-IVB STAGE SELECTOR
		IN		LDI	1103 ON	33.852	0517RESET COMMAND
		IN		MDI	0816 ON	33.852	3516REG CONT BIT 1 VERIFY IN
		IN		MDI	0817 ON	33.852	3517REG CONT BIT 2 VERIFY IN
		IN		MDI	0820 ON	33.852	3520REG CONT BIT 5 VERIFY IN
		IN		MDI	0822 ON	33.852	3522REG CONT BIT 7 VERIFY IN
		IN		MDI	0823 ON	33.852	3523REG CONT BIT 8 VERIFY IN
313				DDA	2088 OFF	33.852	5164VXK0005-603
		IN		LDI	1091 OFF	33.860	0506BIT NO 2 VERIFY
314		IN		MDI	2305 ON	33.860	3765S-IVB STAGE SEL
315		IN		MDI	2307 OFF	33.860	3767RESET COMMAND
	048			LDO	1844 OFF	33.860	4535SW SEL ZERO
316				DDA	2093 OFF	33.860	5167VXK0008-603
317				DDA	2099 OFF	33.860	5172VXK0008-603
318				DDA	2100 OFF	33.860	5173VXK0008-603
		IN		LDI	1090 OFF	33.864	0505BIT NO 1 VERIFY
		IN		LDI	1094 OFF	33.864	0509BIT NO 5 VERIFY
		IN		LDI	1096 OFF	33.864	0511BIT NO 7 VERIFY
		IN		LDI	1097 OFF	33.864	0512BIT NO 8 VERIFY
319				DDA	2088 ON	33.864	5164VXK0005-603
320				DDA	2094 OFF	33.864	5167VXK0008-603
321				DDA	2096 OFF	33.864	5169VXK0008-603
		IN		LDI	1099 ON	33.868	0514S-IVB STAGE SELECTOR
322				DDA	2084 OFF	33.868	5160VXK0007-603
		IN		LDI	1103 OFF	33.872	0517RESET COMMAND
		IN		MDI	0816 OFF	33.872	3516REG CONT BIT 1 VERIFY IN
		IN		MDI	0817 OFF	33.872	3517REG CONT BIT 2 VERIFY IN
		IN		MDI	0820 OFF	33.872	3520REG CONT BIT 5 VERIFY IN
		IN		MDI	0822 OFF	33.872	3522REG CONT BIT 7 VERIFY IN
		IN		MDI	0823 OFF	33.872	3523REG CONT BIT 8 VERIFY IN
	048			MDI	1844 OFF	33.872	3928SW SEL ZERO
		IN		LDI	1090 ON	33.876	0505BIT NO 1 VERIFY
		IN		LDI	1091 ON	33.876	0506BIT NO 2 VERIFY
		IN		LDI	1094 ON	33.876	0509BIT NO 5 VERIFY
		IN		LDI	1096 ON	33.876	0511BIT NO 7 VERIFY
		IN		LDI	1097 ON	33.876	0512BIT NO 8 VERIFY
		IN		MDI	0816 ON	33.876	3516REG CONT BIT 1 VERIFY IN
		IN		MDI	0818 OFF	33.876	3518REG CONT BIT 3 VERIFY IN
		IN		MDI	0819 OFF	33.876	3519REG CONT BIT 4 VERIFY IN
		IN		MDI	0820 ON	33.876	3520REG CONT BIT 5 VERIFY IN
		IN		MDI	0821 OFF	33.876	3521REG CONT BIT 6 VERIFY IN
		IN		MDI	0822 ON	33.876	3522REG CONT BIT 7 VERIFY IN
		IN		MDI	0823 ON	33.876	3523REG CONT BIT 8 VERIFY IN

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		2093 ON	33.876	5166VXK0008-603
		2094 ON	33.876	5167VXK0008-603
		DDA 2096 ON	33.876	5169VXK0008-603
		2099 ON	33.876	5172VXK0008-603
		DDA 2100 ON	33.876	5173VXK0008-603
	IU	LDI 1092 ON	33.884	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	33.884	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	33.884	0510BIT NO 6 VERIFY
S1B		DDA 2095 ON	33.884	5168VXK0008-603
		2098 ON	33.888	5171VXK0008-603
	IU	LDI 1090 OFF	33.888	0505BIT NO 1 VERIFY
	IU	LDI 1094 OFF	33.888	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	33.888	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	33.888	0512BIT NO 8 VERIFY
S1B		2097 OFF	33.888	5166VXK0008-603
S1B		2098 OFF	33.888	5167VXK0008-603
S1B		2099 OFF	33.888	5169VXK0008-603
S1B		2100 OFF	33.888	5173VXK0008-603
	S4B	1844 ON	33.900	4535SW SEL ZERO
	S4B	1844 OFF	33.940	4535SW SEL ZERO
S1B	IU	2091 ON	33.952	3768READ COMMAND
S1B	S4B IU	-2- 321 READ	33.952	
	S4B	MDI 1929 OFF	33.956	3939LH VLVS BC, L/R LTCH RST
		2095 ON	33.958	5161VXK0006-603
	IU	LDI 0983 ON	33.960	0463SW SEL READ
	IU	LDI 1102 ON	33.960	0516SW SEL READ
S1B		DDA 2029 ON	33.960	4080VXK0128-404
S1B	IU	MDI 2305 OFF	33.984	3765S-IVR STAGE SEL
S1B	IU	MDI 2308 OFF	33.984	3768READ COMMAND
		MDI 1847 ON	33.992	3928SW SEL ZERO
	S4B	MDI 1844 ON	33.992	3928SW SEL ZERO
S1B		DDA 2085 OFF	33.992	5161VXK0006-603
S1B		DDA 2088 OFF	33.992	5164VXK0005-603
	IU	LDI 1099 OFF	33.996	0514S-IVR STAGE SELECTOR
	IU	LDI 1102 OFF	33.996	0516SW SEL READ
	IU	MDI 0817 ON	33.996	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	33.996	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	33.996	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	33.996	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1091 OFF	34.000	0506BIT NO 2 VERIFY
		DDA 2099 OFF	34.000	5172VXK0008-603
	IU	LDI 1092 OFF	34.004	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	34.004	0508BIT NO 4 VERIFY
S1B		DDA 2095 OFF	34.004	5168VXK0008-603
S1B		DDA 2098 OFF	34.004	5171VXK0008-603

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	IU	LDI 1095 OFF 34.008 0510BIT NO 6 VERIFY
S1B		DDA 2029 OFF 34.008 4080VK0128-404
S4B		LDO 1929 OFF 34.032 4547LH VLVS RC, L/R LTCH RST
S4B		LDO 1844 ON 34.068 4535SW SEL ZERO
S1B		MDI 2187 OFF 34.616 2596TCS PULSE OK
S1B		MDI 2187 ON 34.988 2596TCS PULSE OK
S1B	IU	MDI 2305 ON 35.004 3765S-IVR STAGE SEL
S4B		MDI 1844 OFF 35.004 3928SW SEL ZERO
	IU	LDI 1099 ON 35.008 0514S-IVR STAGE SELECTOR
	IU	MDI 0817 OFF 35.008 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 35.008 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 35.008 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF 35.008 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2088 ON 35.008 5164VXK0005-603
	IU	MDI 0816 OFF 35.012 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 ON 35.012 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF 35.012 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON 35.016 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 35.016 0507BIT NO 3 VERIFY
	IU	LDI 1097 ON 35.016 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 35.016 5166VXK0008-603
S1B		DDA 2095 ON 35.016 5168VXK0008-603
S1B		DDA 2096 ON 35.016 5171VXK0008-603
S1B		DDA 2099 ON 35.016 5172VXK0008-603
S1B		DDA 2100 ON 35.016 5173VXK0008-603
	IU	LDI 1095 ON 35.020 0510BIT NO 6 VERIFY
S1B	IU	MDI 2305 OFF 35.040 3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON 35.040 3767RESET COMMAND
S1B S4B	IU	-2- 130 RESET 35.040
S4B		MDI 1844 ON 35.044 3928SW SEL ZERO
	IU	MDI 0816 ON 35.048 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 35.048 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 35.048 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 ON 35.048 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON 35.048 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON 35.048 5160VXK0007-603
	IU	LDI 1091 OFF 35.052 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 35.052 0507BIT NO 3 VERIFY
	IU	LDI 1099 OFF 35.052 0514S-IVR STAGE SELECTOR
	IU	LDI 1103 ON 35.052 0517RESET COMMAND
		DDA 2088 OFF 35.052 5164VXK0005-603
		DDA 2093 OFF 35.052 5166VXK0008-603
		DDA 2096 OFF 35.052 5171VXK0008-603
		DDA 2099 OFF 35.052 5172VXK0008-603
		DDA 2100 OFF 35.052 5173VXK0008-603

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	IU	LDI 1090 OFF 35.056 0505BIT NO 1 VERIFY
	IU	LDI 1095 OFF 35.056 0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF 35.056 0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON 35.056 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF 35.056 3767RESET COMMAND
S1B		DDA 2095 OFF 35.056 5168VXK0008-603
S1B		DDA 2088 ON 35.064 5164VXK0005-603
	IU	LDI 1099 ON 35.068 0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF 35.068 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 35.068 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 35.068 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF 35.068 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 35.068 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 35.068 3928SW SEL ZERO
S1B		DDA 2084 OFF 35.068 5160VXK0007-603
	IU	LDI 1103 OFF 35.072 0517RESET COMMAND
	IU	MDI 0816 ON 35.072 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON 35.072 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 35.072 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 35.072 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 35.072 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 35.072 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 35.072 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON 35.076 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 35.076 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 35.076 0509BIT NO 5 VERIFY
	IU	LDI 1096 ON 35.076 0511BIT NO 7 VERIFY
S1B		DDA 2094 ON 35.076 5167VXK0008-603
S1B		DDA 2096 ON 35.076 5169VXK0008-603
S1B		DDA 2099 ON 35.076 5172VXK0008-603
S4B		LDO 1844 OFF 35.084 4535SW SEL ZERO
S4B		LDO 1844 ON 35.120 4535SW SEL ZERO
S4B		LDO 1844 OFF 35.160 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 35.168 3768READ COMMAND
S1B S4B	IU	-2- 245 READ 35.168
	IU	LDI 0983 ON 35.176 0463SW SEL READ
	IU	LDI 1102 ON 35.176 0516SW SEL READ
S4B		MDI 1931 OFF 35.176 3941LH LATCH RLF VLV OPEN
S1		DDA 2029 ON 35.176 4080VK0128-404
S1		DDA 2085 ON 35.176 5161VXK0006-603
S1	IU	MDI 2305 OFF 35.200 3765S-IVB STAGE SEL
S1	IU	MDI 2308 OFF 35.200 3768READ COMMAND
S4B		MDI 1844 ON 35.208 3928SW SEL ZERO
S1		DDA 2085 OFF 35.208 5161VXK0006-603
S1		DDA 2088 OFF 35.208 5164VXK0005-603
	IU	LDI 0983 OFF 35.212 0463SW SEL READ

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	IU	LDI 1099 OFF 35.212 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 35.212 0516SW SEL READ
	IU	MDI 0817 ON 35.212 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 35.212 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 35.212 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON 35.212 3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1091 OFF 35.216 0506BIT NO 2 VERIFY
S1B		DDA 2029 OFF 35.216 4080VXK0128-404
S1B		DDA 2099 OFF 35.216 5172VXK0008-603
	IU	LDI 1094 OFF 35.220 0509BIT NO 5 VERIFY
S1B		DDA 2094 OFF 35.220 5167VXK0008-603
S1B		DDA 2096 OFF 35.220 5169VXK0008-603
	IU	LDI 1093 OFF 35.224 0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF 35.224 0511BIT NO 7 VERIFY
S4B		LDO 1931 OFF 35.228 4549LH LATCH RLF VLV OPEN
S1B		MDI 2187 OFF 35.616 2596TCS PULSE OK
S1B		MDI 2187 ON 36.208 3765S-IVB STAGE SEL
S1B	IU	MDI 1844 OFF 36.208 3928SW SEL ZERO
S4B		MDI 0817 OFF 36.212 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 36.212 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 36.212 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF 36.212 3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1090 ON 36.216 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 36.216 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 36.216 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 36.216 0508BIT NO 4 VERIFY
	IU	LDI 1095 ON 36.216 0510BIT NO 6 VERIFY
	IU	LDI 1097 ON 36.216 0512BIT NO 8 VERIFY
	IU	LDI 1099 ON 36.216 0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF 36.216 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF 36.216 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON 36.216 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 36.216 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 36.216 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 36.216 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON 36.216 5164VXK0005-603
S1B		DDA 2093 ON 36.216 5166VXK0008-603
S1B		DDA 2095 ON 36.216 5168VXK0008-603
S1B		DDA 2098 ON 36.216 5171VXK0008-603
S1B		DDA 2099 ON 36.216 5172VXK0008-603
S1B		DDA 2100 ON 36.216 5173VXK0008-603
S1B	IU	MDI 2305 OFF 36.256 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON 36.256 3767RESET COMMAND
S1B S4B	IU	-2- 120 RESET 36.256

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S4B	MDI 1844 ON	36.260	3928SW SEL ZERO	
S4B	LDO 1844 OFF	36.260	4535SW SEL ZERO	
IU	MDI 0816 ON	36.264	3516REG CONT BIT 1 VERIFY IN	
IU	MDI 0817 ON	36.264	3517REG CONT BIT 2 VERIFY IN	
IU	MDI 0818 ON	36.264	3518REG CONT BIT 3 VERIFY IN	
IU	MDI 0819 ON	36.264	3519REG CONT BIT 4 VERIFY IN	
IU	MDI 0821 ON	36.264	3521REG CONT BIT 6 VERIFY IN	
IU	MDI 0823 ON	36.264	3523REG CONT BIT 8 VERIFY IN	
S1B	DDA 2084 ON	36.264	5160VXK0007-603	
IU	LDI 1091 OFF	36.268	0506BIT NO 2 VERIFY	
IU	LDI 1099 OFF	36.268	0514S-IVR STAGE SELECTOR	
IU	LDI 1103 ON	36.268	0517RESET COMMAND	
S1B	DDA 2088 OFF	36.268	5164VXK0005-603	
S1B	DDA 2093 OFF	36.268	5166VXK0008-603	
S1B	DDA 2098 OFF	36.268	5171VXK0008-603	
S1B	DDA 2099 OFF	36.268	5172VXK0008-603	
S1B	DDA 2100 OFF	36.268	5173VXK0008-603	
IU	LDI 1090 OFF	36.272	0505BIT NO 1 VERIFY	
IU	LDI 1092 OFF	36.272	0507BIT NO 3 VERIFY	
IU	LDI 1093 OFF	36.272	0508BIT NO 4 VERIFY	
IU	LDI 1095 OFF	36.272	0510BIT NO 6 VERIFY	
IU	LDI 1097 OFF	36.272	0512BIT NO 8 VERIFY	
S1B	DDA 2095 OFF	36.272	5168VXK0008-603	
S1B	IU	MDI 2307 OFF	36.284	3767RESET COMMAND
S1B	IU	MDI 2305 ON	36.288	3765S-IVR STAGE SEL
IU	LDI 1099 ON	36.292	0514S-IVR STAGE SELECTOR	
S1B	DDA 2084 OFF	36.292	5160VXK0007-603	
S1B	DDA 2088 ON	36.292	5164VXK0005-603	
IU	LDI 1103 OFF	36.296	0517RESET COMMAND	
S4B	MDI 1844 OFF	36.296	3928SW SEL ZERO	
IU	LDI 1090 ON	36.300	0505BIT NO 1 VERIFY	
IU	LDI 1091 ON	36.300	0506BIT NO 2 VERIFY	
IU	LDI 1092 ON	36.300	0507BIT NO 3 VERIFY	
IU	LDI 1093 ON	36.300	0508BIT NO 4 VERIFY	
IU	LDI 1094 ON	36.300	0509BIT NO 5 VERIFY	
IU	LDI 1095 ON	36.300	0510BIT NO 6 VERIFY	
IU	LDI 1096 ON	36.300	0511BIT NO 7 VERIFY	
IU	LDI 1097 ON	36.300	0512BIT NO 8 VERIFY	
IU	MDI 0816 OFF	36.300	3516REG CONT BIT 1 VERIFY IN	
IU	MDI 0817 OFF	36.300	3517REG CONT BIT 2 VERIFY IN	
IU	MDI 0819 OFF	36.300	3519REG CONT BIT 4 VERIFY IN	
IU	MDI 0820 OFF	36.300	3520REG CONT BIT 5 VERIFY IN	
IU	MDI 0822 OFF	36.300	3522REG CONT BIT 7 VERIFY IN	
S1B	DDA 2093 ON	36.300	5166VXK0008-603	
S1B	DDA 2094 ON	36.300	5167VXK0008-603	
S1B	DDA 2095 ON	36.300	5168VXK0008-603	

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S1B		DDA 2096 ON 36.300 5169VXK0008-603
S1B		DDA 2098 ON 36.300 5171VXK0008-603
S1B		DDA 2099 ON 36.300 5172VXK0008-603
S1B		DDA 2100 ON 36.300 5173VXK0008-603
	IU	MDI 0816 ON 36.304 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 ON 36.304 3519REG CONT BIT 4 VERIFY IN
	IU	LDI 1090 OFF 36.312 0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF 36.312 0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF 36.312 0508BIT NO 4 VERIFY
	IU	LDI 1097 OFF 36.312 0512BIT NO 8 VERIFY
S4B		LDO 1844 ON 36.312 4535SW SEL ZERO
S1B		DDA 2093 OFF 36.312 5166VXK0008-603
S1B		DDA 2095 OFF 36.312 5168VXK0008-603
S1B		DDA 2098 OFF 36.312 5171VXK0008-603
S1B		DDA 2100 OFF 36.312 5173VXK0008-603
	IU	LDI 1099 OFF 36.312 0514S-IV8 STAGE SELECTOR
S1B	IU	MDI 2308 ON 36.364 3768READ COMMAND
S1B	S4B IU	-2- 255 READ 36.364
	S4B	LDO 1844 OFF 36.364 4535SW SEL ZERO
S1B		DDA 2085 ON 36.364 5161VXK0006-603
	IU	LDI 0983 ON 36.368 0463SW SEL READ
	IU	LDI 1102 ON 36.368 0516SW SEL READ
S4B		MDI 1929 ON 36.368 3939LH VLVS RC, L/R LTCH RST
S1B		DDA 2029 ON 36.368 4080VK0128-404
S1B	IU	MDI 2305 OFF 36.404 3765S-IV8 STAGE SEL
S1B	IU	MDI 2306 OFF 36.404 3768READ COMMAND
	IU	MDI 0817 ON 36.416 3517REG CONT BIT 2 VERIFY IN
S1B		DDA 2085 OFF 36.416 5161VXK0006-603
S1B		DDA 2096 OFF 36.416 5169VXK0008-603
	IU	LDI 0983 OFF 36.420 0463SW SEL READ
	IU	LDI 1099 OFF 36.420 0514S-IV8 STAGE SELECTOR
	IU	LDI 1102 OFF 36.420 0516SW SEL READ
	IU	MDI 0820 ON 36.420 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON 36.420 3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2029 OFF 36.424 4080VK0128-404
S1B		DDA 2099 OFF 36.424 5172VXK0008-603
	IU	LDI 1091 OFF 36.428 0506BIT NO 2 VERIFY
S1B		DDA 2094 OFF 36.428 5167VXK0008-603
S1B		DDA 2096 OFF 36.428 5169VXK0008-603
	IU	LDI 1094 OFF 36.432 0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF 36.432 0511BIT NO 7 VERIFY
S4B		LDO 1929 ON 36.436 4547LH VLVS RC, L/R LTCH RST
S4B		LDO 1844 ON 36.476 4535SW SEL ZERO
S1B		MDI 2187 OFF 36.988 2596TCS PULSE OK
S1B		MDI 2187 ON 36.988 2596TCS PULSE OK

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S18		MDI 2187 OFF 37.616 2596TCS PULSE OK
S18		MDI 2187 ON 37.988 2596TCS PULSE OK
S18		MDI 2187 OFF 38.616 2596TCS PULSE OK
S18		MDI 2187 ON 38.988 2596TCS PULSE OK
S18		MDI 2187 OFF 39.616 2596TCS PULSE OK
S18		MDI 2187 ON 39.988 2596TCS PULSE OK
S18		MDI 2187 OFF 40.616 2596TCS PULSE OK
S18		MDI 2187 ON 40.988 2596TCS PULSE OK
S18	IU	MDI 2305 ON 41.404 3765S-IVR STAGE SEL
S18	S48	MDI 1844 OFF 41.404 3928SW SEL ZERO
S18	IU	LDI 1099 ON 41.408 0514S-IVR STAGE SELECTOR
S18	IU	MDI 0817 OFF 41.408 3517REG CONT BIT 2 VERIFY IN
S18	IU	MDI 0820 OFF 41.408 3520REG CONT BIT 5 VERIFY IN
S18	IU	MDI 0822 OFF 41.408 3522REG CONT BIT 7 VERIFY IN
S18		DDA 2088 ON 41.408 5164VXK0005-603
S18	IU	MDI 0819 OFF 41.412 3519REG CONT BIT 4 VERIFY IN
S18	IU	MDI 0820 ON 41.412 3520REG CONT BIT 5 VERIFY IN
S18	IU	MDI 0821 OFF 41.412 3521REG CONT BIT 6 VERIFY IN
S18	IU	MDI 0822 ON 41.412 3522REG CONT BIT 7 VERIFY IN
S18	IU	MDI 0823 OFF 41.412 3523REG CONT BIT 8 VERIFY IN
S18	IU	LDI 1091 ON 41.416 0506BIT NO 2 VERIFY
S18	IU	LDI 1093 ON 41.416 0508BIT NO 4 VERIFY
S18	IU	LDI 1095 ON 41.416 0510BIT NO 6 VERIFY
S18	IU	LDI 1097 ON 41.416 0512BIT NO 8 VERIFY
S18		DDA 2093 ON 41.416 5166VXK0008-603
S18		DDA 2094 ON 41.416 5167VXK0009-603
S18		DDA 2099 ON 41.416 5172VXK0008-603
S18	S48	LDO 1844 OFF 41.456 4535SW SEL ZERO
S18	IU	MDI 2308 ON 41.572 3768READ COMMAND
S18	S48	-2- 125 READ 41.572
S18		DDA 2085 ON 41.572 5161VXK0006-603
S18	IU	LDI 0983 ON 41.576 0463SW SEL READ
S18	IU	LDI 1102 ON 41.576 0516SW SEL READ
S18		DDA 2029 ON 41.576 4080VXK0128-404
S18	S48	MDI 2645 ON 41.580 2700LOX CLDN VALVE CLOSED
S18	S48	MDI 2646 ON 41.580 2701LH CLDN VALVE CLOSED
S18	S48	MDI 1706 OFF 41.580 3084LOX CLDN VALVE OPEN
S18	S48	MDI 1707 OFF 41.580 3085LH CLDN VALVE OPEN
S18	IU	MDI 2305 OFF 41.600 3765S-IVR STAGE SEL
S18	IU	MDI 2308 OFF 41.600 3768READ COMMAND
S18	S48	MDI 1844 ON 41.608 3928SW SEL ZERO
S18		DDA 2085 OFF 41.608 5161VXK0006-603
S18		DDA 2112 OFF 41.608 5164VXK0005-603
S18	IU	LDI 0983 OFF 41.612 0463SW SEL READ
S18	IU	LDI 1099 OFF 41.612 0514S-IVR STAGE SELECTOR
S18	IU	LDI 1102 OFF 41.612 0516SW SEL READ

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	IU	MDI 0817 ON	41.612	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	41.612	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	41.612	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	41.612	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2029 OFF	41.612	4080VXK0128-404
	IU	LDI 1091 OFF	41.616	0506BIT NO 2 VERIFY
S1B		MDI 2187 OFF	41.616	2596TCS PULSE OK
S1B		MDI 2187 OFF	41.616	2596TCS PULSE OK
	IU	LDI 1093 OFF	41.620	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	41.620	0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF	41.620	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	41.620	5166VXK0008-603
S1B		DDA 2095 OFF	41.620	5168VXK0008-603
	S4B	LDO 1706 OFF	41.640	4767LOX CLDN VALVE OPEN
	S4B	LDO 1707 OFF	41.640	4768LH CLDN VALVE OPEN
	S4B	LDO 1844 ON	41.676	4535SW SEL ZERO
S1B		MDI 2187 ON	41.988	2596TCS PULSE OK
S1B		MDI 2187 OFF	42.616	2596TCS PULSE OK
S1B		MDI 2187 ON	42.988	2596TCS PULSE OK
S1B		MDI 2187 OFF	43.616	2596TCS PULSE OK
S1B		MDI 2187 ON	43.988	2596TCS PULSE OK
S1B		MDI 2187 OFF	44.616	2596TCS PULSE OK
S1B		MDI 2187 ON	44.988	2596TCS PULSE OK
S1B		MDI 2187 OFF	45.616	2596TCS PULSE OK
S1B		MDI 2187 ON	45.988	2596TCS PULSE OK
S1B		MDI 2187 OFF	46.616	2596TCS PULSE OK
S1B		MDI 2187 ON	46.988	2596TCS PULSE OK
S1B		MDI 2187 OFF	47.616	2596TCS PULSE OK
S1B		MDI 2187 ON	47.988	2596TCS PULSE OK
S1B		MDI 2187 OFF	48.616	2596TCS PULSE OK
S1B		MDI 2187 ON	48.988	2596TCS PULSE OK
S1B		MDI 2187 OFF	49.616	2596TCS PULSE OK
S1B		MDI 2187 ON	49.988	2596TCS PULSE OK
	S4B	MDI 1808 OFF	50.220	3838LOX BLEED VALVE CLOSED
	S4B	LDO 1808 OFF	50.264	4503LOX BLEED VALVE CLOSED
	S4B	MDI 1807 OFF	50.428	3837FUEL BLEED VALVE CLOSED
	S4B	LDO 1807 OFF	50.472	4502FUEL BLEED VALVE CLOSED
S1B		MDI 2187 OFF	50.616	2596TCS PULSE OK
S1B		MDI 2187 ON	50.988	2596TCS PULSE OK
S1B	IU	MDI 2305 ON	51.404	3765S-IVR STAGE SEL
	S4B	MDI 1844 OFF	51.404	3928SW SEL ZERO
S1B		DDA 2088 ON	51.404	5164VXK0005-603
	IU	LDI 1099 ON	51.408	0514S-IVR STAGE SELECTOR
	IU	MDI 0817 OFF	51.408	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	51.408	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	51.408	3521REG CONT BIT 6 VERIFY IN

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	IU	MDI 0823	OFF	51.408	3523REG CONT BIT 8 VERIFY IN
	IU	MDI 0819	ON	51.412	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	ON	51.412	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	51.412	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2093	ON	51.412	5166VXK0008-603
S1B		DDA 2094	ON	51.412	5167VXK0008-603
S1B		DDA 2099	ON	51.412	5172VXK0008-603
	IU	LDI 1091	ON	51.416	0506BIT NO 2 VERIFY
	IU	LDI 1096	ON	51.416	0511BIT NO 7 VERIFY
	IU	LDI 1097	ON	51.416	0512BIT NO 8 VERIFY
S1B	IU	MDI 2305	OFF	51.440	3765S-IVB STAGE SEL
S1B	IU	MDI 2307	ON	51.440	3767RESET COMMAND
S1B S4B	IU	-2- 075	RESET	51.440	
	IU	MDI 0817	ON	51.444	3517REG CONT BIT 2 VERIFY IN
S4B		MDI 1844	ON	51.444	3928SW SEL ZERO
	IU	LDI 1091	OFF	51.448	0506BIT NO 2 VERIFY
	IU	LDI 1103	ON	51.448	0517RESET COMMAND
	IU	MDI 0822	ON	51.448	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	ON	51.448	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084	ON	51.448	5160VXK0007-603
S1B		DDA 2088	OFF	51.448	5164VXK0005-603
S1B		DDA 2093	OFF	51.448	5166VXK0008-603
	IU	LDI 1096	OFF	51.452	0511BIT NO 7 VERIFY
	IU	LDI 1097	OFF	51.452	0512BIT NO 8 VERIFY
	IU	LDI 1099	OFF	51.452	0514S-IVB STAGE SELECTOR
S1B	IU	MDI 2307	OFF	51.452	3767RESET COMMAND
S4B		LDO 1844	OFF	51.452	4535SW SEL ZERO
S1B		DDA 2093	OFF	51.452	5166VXK0008-603
S1B		DDA 2094	OFF	51.452	5167VXK0008-603
S1B	IU	MDI 2305	ON	51.456	3765S-IVB STAGE SEL
	IU	LDI 1099	ON	51.464	0514S-IVB STAGE SELECTOR
S4B		MDI 1844	OFF	51.464	3928SW SEL ZERO
S1B		DDA 2088	ON	51.464	5164VXK0005-603
	IU	LDI 1103	OFF	51.468	0517RESET COMMAND
	IU	MDI 0816	OFF	51.468	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	OFF	51.468	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	51.468	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	51.468	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	51.468	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	OFF	51.468	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	51.468	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	51.468	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084	OFF	51.468	5160VXK0007-603
	IU	LDI 1090	ON	51.472	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	51.472	0506BIT NO 2 VERIFY
	IU	LDI 1092	ON	51.472	0507BIT NO 3 VERIFY

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	IU	LDI 1093 ON	51.472	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	51.472	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	51.472	0510BIT NO 6 VERIFY
	IU	MDI 0822 ON	51.472	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	51.472	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2095 ON	51.472	5168VXK0008-603
S1B		DDA 2096 0	51.472	5169VXK0008-603
S1B		DDA 2097 0	51.472	5170VXK0008-603
S1B		DDA 2099 ON	51.472	5172VXK0008-603
S1B		DDA 2100 0	51.472	5173VXK0008-603
S4B		LDO 1844 ON	51.492	4535SW SEL ZERO
S4B		LDO 1844 OFF	51.492	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	51.552	3768READ COMMAND
S1B	IU			
	IU	LDI 0983 ON	51.556	0463SW SEL READ
	IU	LDI 1102 ON	51.556	0514S-IVB STAGE SELECTOR
S4B		MDI 1828 OFF	51.556	3914PU OVEN INV PWR ON
S1B		DDA 2085 ON	51.556	5161VXK0006-603
S1B		DDA 2029 0	51.560	4080VXK0128-404
S1B	IU	MDI 2308 OFF	51.580	3768READ COMMAND
S4B		MDI 1844 ON	51.588	3928SW SEL ZERO
	IU	LDI 0983 OFF	51.592	0463SW SEL READ
	IU	LDI 1099 OFF	51.592	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	51.592	0516SW SEL READ
	IU	MDI 0816 ON	51.592	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	51.592	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	51.592	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	51.592	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	51.592	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	51.592	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2088 OFF	51.592	5164VXK0005-603
S1B		DDA 2089 OFF	51.596	5165VXK0005-603
S1B		DDA 2099 OFF	51.596	5172VXK0008-603
	IU	LDI 1090 OFF	51.600	0506BIT NO 2 VERIFY
	IU	LDI 1091 OFF	51.600	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	51.600	0507BIT NO 3 VERIFY
S1B		DDA 2096 OFF	51.600	5169VXK0008-603
S1B		DDA 2098 OFF	51.600	5171VXK0008-603
S1B		DDA 2100 OFF	51.600	5173VXK0008-603
	IU	LDI 1093 OFF	51.604	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	51.604	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	51.604	0510BIT NO 6 VERIFY
S4B		LDO 1828 OFF	51.604	4521PU OVEN INV PWR ON
S1B		DDA 2095 OFF	51.604	5168VXK0008-603

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S17		MDI 2187 OFF	51.616	2596TCS PULSE OK
S4B		LDO 1844 ON	51.640	4535SW SEL ZERO
S17		MDI 2187 ON	51.988	2596TCS PULSE OK
S17	IU	MDI 2305 ON	52.000	3765S-IVB STAGE SEL
S4B		MDI 1844 OFF	52.004	3928SW SEL ZERO
S17		DDA 2088 ON	52.004	5164VXK0005-603
	IU	LDI 1099 OFF	52.008	0514S-IVB STAGE SELECTOR
	IU	MDI 0817 OFF	52.008	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	52.008	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	52.008	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	52.008	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	52.008	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	52.008	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	52.008	3523REG CONT BIT 8 VERIFY IN
S17		DDA 2093 ON	52.012	5166VXK0008-603
S1B		DDA 2094 ON	52.012	5167VXK0008-603
S1B		DDA 2096 ON	52.012	5169VXK0008-603
S1B		DDA 2098 ON	52.012	5171VXK0008-603
S1B		DDA 2099 ON	52.012	5172VXK0008-603
	IU	LDI 1091 ON	52.016	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	52.016	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	52.016	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	52.016	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	52.016	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	52.016	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	52.016	0512BIT NO 8 VERIFY
S1B		DDA 2095 ON	52.016	5168VXK0008-603
S4B		LDO 1844 OFF	52.068	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	52.152	3768READ COMMAND
S1B	S4B	-2- 001 READ	52.152	
	IU	LDI 0983 ON	52.156	0463SW SEL READ
	IU	LDI 1102 ON	52.156	0516SW SEL READ
S1B		DDA 2085 ON	52.156	5161VXK0006-603
S4B		MDI 1675 OFF	52.160	3067LOX TK NPV VLV FULL OPEN
S1B		DDA 2029 ON	52.160	4080VK0128-404
S1B	IU	MDI 2305 OFF	52.180	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	52.180	3768READ COMMAND
S4B		MDI 1844 ON	52.188	3928SW SEL ZERO
	IU	LDI 0983 OFF	52.192	0463SW SEL READ
	IU	LDI 1099 OFF	52.192	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	52.192	0516SW SEL READ
	IU	MDI 0817 ON	52.192	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	52.192	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	52.192	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	52.192	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	52.192	3521REG CONT BIT 6 VERIFY IN

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	IU	LDI 1091 ON	52.192	0506BIT NO 2 VERIFY IN
	IU	LDI 1092 ON	52.192	0507BIT NO 3 VERIFY IN
S1B		DDA 2085 OFF	52.192	5161VXK0006-603
S1B		DDA 2088 OFF	52.192	5164VXK0005-603
S1B		DDA 2029 OFF	52.196	4080VK0128-404
S1B		DDA 2099 OFF	52.196	5172VXK0008-603
	IU	LDI 1091 OFF	52.200	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	52.200	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	52.200	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	52.200	5166VXK0008-603
S1B		DDA 2094 OFF	52.200	5167VXK0008-603
S1B		DDA 2096 OFF	52.200	5169VXK0008-603
S1B		DDA 2098 OFF	52.200	5171VXK0008-603
	IU	LDI 1093 OFF	52.204	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	52.204	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	52.204	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	52.204	0511BIT NO 7 VERIFY
S1B		DDA 2095 OFF	52.204	5168VXK0008-603
S4B		LDO 1675 OFF	52.224	4750LOX TK NPV VLV FULL OPEN
S4B		LDO 1844 ON	52.260	4535SW SEL ZERO
S1B		MDI 2187 OFF	52.616	2596TCS PULSE OK
S1B		MDI 2187 ON	52.988	2596TCS PULSE OK
S4B		MDI 1676 ON	53.128	3068LOX TK NPV VLV FULL CL
S4B		LDO 1676 ON	53.172	4751LOX TK NPV VLV FULL CL
S1B		MDI 2187 OFF	53.616	2596TCS PULSE OK
S1B		MDI 2187 ON	54.144	2596TCS PULSE OK
S1B		MDI 2187 OFF	54.616	2596TCS PULSE OK
S1B		MDI 2187 ON	54.988	2596TCS PULSE OK
S1B	IU	MDI 2305 ON	55.000	3765S-IVR STAGE SEL
	IU	LDI 1099 ON	55.004	0514S-IVR STAGE SELECTOR
S4B		MDI 1844 OFF	55.004	3928SW SEL ZERO
S1B		DDA 2088 ON	55.004	5164VXK0005-603
	IU	MDI 0817 OFF	55.008	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	55.008	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822 OFF	55.008	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	55.008	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1096 ON	55.012	0511BIT NO 7 VERIFY
S1B		DDA 2093 ON	55.012	5166VXK0008-603
S1B		DDA 2094 ON	55.012	5167VXK0008-603
S1B		DDA 2096 ON	55.012	5169VXK0008-603
S1B		DDA 2098 ON	55.012	5171VXK0008-603
	IU	LDI 1091 ON	55.016	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	55.016	0507BIT NO 3 VERIFY
	IU	LDI 1097 ON	55.016	0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 OFF	55.020	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON	55.024	3767RESET COMMAND

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11	S4B	IU	-2-	071	0817	ON	55.024	
	S4B			1844	OFF		55.024	3928SW SEL ZERO
		IU		MDI	0817	ON	55.028	3517REG CONT BIT 2 VERIFY IN
		IU		MDI	0818	ON	55.028	3518REG CONT BIT 3 VERIFY IN
		IU		MDI	0822	ON	55.028	3522REG CONT BIT 7 VERIFY IN
		IU		MDI	0823	ON	55.028	3523REG CONT BIT 8 VERIFY IN
S1B				DDA	2084	ON	55.028	5160VXK0007-603
		IU		LDI	1091	OFF	55.032	0506BIT NO 2 VERIFY
		IU		LDI	1099	OFF	55.032	0514S-IVB STAGE SELECTOR
		IU		LDI	1103	OFF	55.032	0517RESET COMMAND
S1B				DDA	2088	OFF	55.032	5164VXK0005-603
S1B				DDA	2093	OFF	55.032	5166VXK0008-603
S1B				DDA	2098	OFF	55.032	5171VXK0008-603
S1B				DDA	2099	OFF	55.032	5172VXK0008-603
		IU		LDI	1092	OFF	55.036	0507BIT NO 3 VERIFY
		IU		LDI	1096	OFF	55.036	0511BIT NO 7 VERIFY
		IU		LDI	1097	OFF	55.036	0512BIT NO 8 VERIFY
S1B		IU		MDI	2307	OFF	55.036	3767RESET COMMAND
S1B		IU		DDA	2094	OFF	55.036	5167VXK0008-603
S1B				DDA	2088	ON	55.044	5164VXK0005-603
		IU		LDI	1099	ON	55.048	0514S-IVB STAGE SELECTOR
		IU		MDI	0817	OFF	55.048	3517REG CONT BIT 2 VERIFY IN
		IU		MDI	0818	OFF	55.048	3518REG CONT BIT 3 VERIFY IN
		IU		MDI	0822	OFF	55.048	3522REG CONT BIT 7 VERIFY IN
		IU		MDI	0823	OFF	55.048	3523REG CONT BIT 8 VERIFY IN
	S4B			MDI	1844	OFF	55.048	3928SW SEL ZERO
11				DDA	2084	ON	55.048	5160VXK0007-603
		IU		LDI	1103	OFF	55.052	0517RESET COMMAND
		IU		MDI	0816	OFF	55.052	3516REG CONT BIT 1 VERIFY IN
		IU		MDI	0818	ON	55.052	3518REG CONT BIT 3 VERIFY IN
		IU		MDI	0819	OFF	55.052	3519REG CONT BIT 4 VERIFY IN
		IU		MDI	0820	OFF	55.052	3520REG CONT BIT 5 VERIFY IN
		IU		MDI	0821	OFF	55.052	3521REG CONT BIT 6 VERIFY IN
		IU		MDI	0822	ON	55.052	3522REG CONT BIT 7 VERIFY IN
		IU		MDI	0823	ON	55.052	3523REG CONT BIT 8 VERIFY IN
		IU		LDI	1090	ON	55.056	0505BIT NO 1 VERIFY
		IU		LDI	1091	ON	55.056	0506BIT NO 2 VERIFY
		IU		LDI	1093	ON	55.056	0508BIT NO 4 VERIFY
		IU		LDI	1094	ON	55.056	0509BIT NO 5 VERIFY
		IU		LDI	1095	ON	55.056	0510BIT NO 6 VERIFY
S1B				DDA	2096	ON	55.056	5169VXK0008-603
S1B				DDA	2099	ON	55.056	5172VXK0008-603
S1B				DDA	2100	ON	55.056	5173VXK0008-603
	S4B			LDO	1844	OFF	55.064	4535SW SEL ZERO

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S4B		LDO 1844 ON	55.100	4535SW SEL ZERO
S4B		LDO 1844 OFF	55.140	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	55.172	3768READ COMMAND
S1B	IU	-E- 304 READ	55.172	
S4B		MDI 1735 OFF	55.176	3111LOX V/NPV RC-OP LTCH RST
	IU	LDI 0983 ON	55.180	0463SW SEL READ
	IU	LDI 1102 ON	55.180	0516SW SEL READ
S1B		DDA 2085 ON	55.180	5161VXK0006-603
S1B		DDA 2029 ON	55.184	4080VK0128-404
S1B	IU	MDI 2305 OFF	55.200	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	55.200	3768READ COMMAND
	IU	LDI 1099 OFF	55.208	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	55.208	0516SW SEL READ
S4B		MDI 1844 ON	55.208	3928SW SEL ZERO
S1B		DDA 2085 OFF	55.208	5161VXK0006-603
S1B		DDA 2088 OFF	55.208	5164VXK0005-603
	IU	MDI 0816 ON	55.212	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	55.212	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	55.212	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	55.212	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	55.212	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1091 OFF	55.216	0506BIT NO 2 VERIFY
S1B		DDA 2096 OFF	55.216	5169VXK0008-603
S1B		DDA 2099 OFF	55.216	5172VXK0008-603
S1B		DDA 2102 OFF	55.216	5175VXK0008-603
	IU	LDI 1090 OFF	55.220	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	55.220	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	55.220	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	55.220	0510BIT NO 6 VERIFY
S1B		DDA 2029 OFF	55.220	4080VK0128-404
S4B		LDO 1735 OFF	55.220	4796LOX V/NPV RC-OP LTCH RST
S1B		DDA 2095 OFF	55.220	5168VXK0008-603
S4B		LDO 1844 ON	55.256	4535SW SEL ZERO
S1B		MDI 2187 OFF	55.616	2596TCS PULSE OK
S1B		MDI 2187 ON	55.988	2596TCS PULSE OK
S1B		MDI 2187 OFF	56.616	2596TCS PULSE OK
S1B		MDI 2187 ON	56.988	2596TCS PULSE OK
S1B	IU	MDI 2305 ON	57.000	3765S-IVB STAGE SEL
	IU	LDI 1099 ON	57.004	0514S-IVB STAGE SELECTOR
S4B		MDI 1844 OFF	57.004	3928SW SEL ZERO
S1B		DDA 2088 ON	57.004	5164VXK0005-603
	IU	MDI 0817 OFF	57.008	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	57.008	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF	57.008	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	57.008	3522REG CONT BIT 7 VERIFY IN

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	IU	MDI 0823 OFF 57.008 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON 57.012 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 57.012 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 57.012 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 57.012 0512BIT NO 8 VERIFY
S1B		DDA 2094 ON 57.012 5167VXK0008-603
S1B		DDA 2095 ON 57.012 5168VXK0008-603
S1B		DDA 2098 ON 57.012 5171VXK0008-603
S1B		DDA 2099 ON 57.012 5172VXK0008-603
	IU	LDI 1095 ON 57.016 0510BIT NO 6 VERIFY
S1B	IU	MDI 2305 OFF 57.020 3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON 57.024 3767RESET COMMAND
S1B	IU	-2- MDI 0817 ON 57.028 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 57.028 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822 ON 57.028 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 57.028 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 ON 57.028 3928SW SEL ZERO
S1B		DDA 2084 ON 57.028 5160VXK0007-603
	IU	LDI 1091 OFF 57.032 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 57.032 0507BIT NO 3 VERIFY
	IU	LDI 1099 OFF 57.032 0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON 57.032 0517RESET COMMAND
	IU	MDI 0821 ON 57.032 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2088 OFF 57.032 5164VXK0005-603
S1B		DDA 2093 OFF 57.032 5166VXK0008-603
S1B		DDA 2098 OFF 57.032 5171VXK0008-603
S1B		DDA 2099 OFF 57.032 5172VXK0008-603
	IU	LDI 1095 OFF 57.036 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 57.036 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 57.036 0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON 57.036 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF 57.040 3767RESET COMMAND
S1B		DDA 2094 OFF 57.036 5167VXK0008-603
S1B		DDA 2095 OFF 57.036 5168VXK0008-603
S1B		DDA 2088 ON 57.044 5164VXK0005-603
	IU	LDI 1099 OFF 57.048 0514S-IVB STAGE SELECTOR
	IU	MDI 0817 OFF 57.048 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 57.048 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822 OFF 57.048 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 57.048 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 57.048 3928SW SEL ZERO
S1B		DDA 2084 OFF 57.048 5160VXK0007-603
	IU	LDI 1103 OFF 57.052 0517RESET COMMAND
	IU	MDI 0819 OFF 57.052 3519REG CONT BIT 1 VERIFY IN

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	IU	MDI 0818 ON	57.052	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	57.052	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	57.052	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	57.052	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	57.052	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON	57.056	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	57.056	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	57.056	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	57.056	0509BIT NO 5 VERIFY
S1B		DDA 2096 ON	57.056	5169VXK0008-603
S1B		DDA 2099 ON	57.056	5172VXK0008-603
S1B		DDA 2100 OFF	57.056	5173VXK0008-603
S4B		LDO 1844 OFF	57.064	4535SW SEL ZERO
S4B		LDO 1844 ON	57.100	4535SW SEL ZERO
S4B		LDO 1844 OFF	57.140	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	57.152	3768READ COMMAND
S1B S4B	IU	-2- 344 READ	57.152	
	IU	LDI 0983 ON	57.156	0463SW SEL READ
	IU	LDI 1102 ON	57.156	0516SW SEL READ
S4B		MDI 1735 ON	57.156	3111LOX V/NPV BC-OP LTCH RST
S1B		DDA 2029 ON	57.156	4080VK0128-404
S1B		DDA 2085 ON	57.156	5161VXK0005-603
S1B	IU	MDI 2305 OFF	57.192	3765S-IVR STAGE SEL
S1B	IU	MDI 2308 OFF	57.192	3768READ COMMAND
	IU	LDI 0983 OFF	57.200	0463SW SEL READ
	IU	LDI 1099 OFF	57.200	0514S-IVR STAGE SELECTOR
	IU	LDI 1102 OFF	57.200	0516SW SEL READ
S4B		MDI 1844 ON	57.200	3928SW SEL ZERO
S4B		LDO 1735 ON	57.200	4796LOX V/NPV BC-OP LTCH RST
S1B		DDA 2085 OFF	57.200	5161VXK0005-603
S1B		DDA 2088 OFF	57.200	5164VXK0005-603
	IU	MDI 0816 ON	57.204	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	57.204	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	57.204	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	57.204	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2099 OFF	57.204	5172VXK0008-603
	IU	LDI 1090 OFF	57.208	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	57.208	0506BIT NO 2 VERIFY
S1B		DDA 2096 OFF	57.208	5169VXK0008-603
S1B		DDA 2100 OFF	57.208	5173VXK0008-603
	IU	LDI 1093 OFF	57.212	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	57.212	0509BIT NO 5 VERIFY
S1B		DDA 2029 OFF	57.212	4080VK0128-404
S4B		LDO 1844 ON	57.252	4535SW SEL ZERO
S1B		MDI 2187 OFF	57.416	2596TCS PULSE OK
S1B		MDI 2187 ON	57.488	2596TCS PULSE OK

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S1B	MDI 2187 OFF	58.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	58.988	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	59.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	59.988	2596TCS	PULSE	OK
S1B S4B IU	CDC 00 10				
S1B	MDI 2187 OFF	00.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	00.988	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	01.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	01.988	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	02.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	02.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	03.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	03.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	04.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	04.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	05.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	05.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	06.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	06.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	07.616	2596TCS	PULSE	OK
S1B	DDA 0023 OFF	07.840	5201VK0353-340		
S1B	MDI 2187 ON	07.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	08.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	08.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	09.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	09.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	10.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	10.988	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	11.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	11.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	12.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	12.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	13.616	2596TCS	PULSE	OK
S1B	MDI 2187 ON	13.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	14.612	2596TCS	PULSE	OK
S1B	MDI 2187 ON	14.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	15.612	2596TCS	PULSE	OK
S1B	MDI 2187 ON	15.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	16.612	2596TCS	PULSE	OK
S1B	MDI 2187 ON	16.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	17.612	2596TCS	PULSE	OK
S1B	MDI 2187 ON	17.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	18.612	2596TCS	PULSE	OK
S1B	MDI 2187 ON	18.984	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	19.612	2596TCS	PULSE	OK
S1B	MDI 2187 ON	19.984	2596TCS	PULSE	OK

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TEST S11 FLT MAL CAT 300 73 11

S11	MDI 2187 OFF 20.612 2596TCS PULSE OK
S11	MDI 2187 ON 20.984 2596TCS PULSE OK
S11	MDI 2187 OFF 21.612 2596TCS PULSE OK
S11	MDI 2187 ON 21.984 2596TCS PULSE OK
S11	MDI 2187 OFF 22.612 2596TCS PULSE OK
S11	MDI 2187 ON 22.984 2596TCS PULSE OK
S11	MDI 2187 OFF 23.612 2596TCS PULSE OK
S11	MDI 2187 ON 23.984 2596TCS PULSE OK
S11	MDI 2187 OFF 24.612 2596TCS PULSE OK
S11	MDI 2187 ON 24.984 2596TCS PULSE OK
S11	MDI 2187 OFF 25.612 2596TCS PULSE OK
S11	MDI 2187 ON 25.984 2596TCS PULSE OK
S11	MDI 2187 OFF 26.612 2596TCS PULSE OK
S11	MDI 2187 ON 26.984 2596TCS PULSE OK
S11	MDI 2187 OFF 27.612 2596TCS PULSE OK
S11	MDI 2187 ON 27.984 2596TCS PULSE OK
S11	MDI 2187 OFF 28.612 2596TCS PULSE OK
S11	MDI 2187 ON 28.984 2596TCS PULSE OK
S11	MDI 2187 OFF 29.612 2596TCS PULSE OK
S11	MDI 2187 ON 29.984 2596TCS PULSE OK
S11	MDI 2187 OFF 30.612 2596TCS PULSE OK
S11	MDI 2187 ON 30.984 2596TCS PULSE OK
S11	MDI 2187 OFF 31.612 2596TCS PULSE OK
S11	MDI 2187 ON 31.984 2596TCS PULSE OK
S11	MDI 2187 OFF 32.612 2596TCS PULSE OK
S11	MDI 2187 ON 32.984 2596TCS PULSE OK
S11	MDI 2187 OFF 33.612 2596TCS PULSE OK
S11	MDI 2187 ON 33.984 2596TCS PULSE OK
S11	MDI 2187 OFF 34.612 2596TCS PULSE OK
S11	MDI 2187 ON 34.984 2596TCS PULSE OK
S11	MDI 2187 OFF 35.612 2596TCS PULSE OK
S11	MDI 2187 ON 35.984 2596TCS PULSE OK
S11	MDI 2187 OFF 36.612 2596TCS PULSE OK
S11	MDI 2187 ON 36.984 2596TCS PULSE OK
S11	MDI 2187 OFF 37.612 2596TCS PULSE OK
S11	MDI 2187 ON 37.984 2596TCS PULSE OK
S11	MDI 2187 OFF 38.612 2596TCS PULSE OK
S11	MDI 2187 ON 38.984 2596TCS PULSE OK
S11	MDI 2187 OFF 39.612 2596TCS PULSE OK
S11	MDI 2187 ON 39.984 2596TCS PULSE OK
S11	MDI 2187 OFF 40.612 2596TCS PULSE OK
S11	MDI 2187 ON 40.984 2596TCS PULSE OK
S11	MDI 2187 OFF 41.612 2596TCS PULSE OK
S11	MDI 2187 ON 41.984 2596TCS PULSE OK
S11	MDI 2187 OFF 42.612 2596TCS PULSE OK
S11	MDI 2187 ON 42.984 2596TCS PULSE OK

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S1B		MDI 2187 OFF 43.612 2596TCS PULSE OK
S1B		MDI 2187 ON 43.984 2596TCS PULSE OK
S1B		MDI 2187 OFF 44.612 2596TCS PULSE OK
S1B	IU	MDI 2306 ON 44.696 3766IU STAGE SEL
	IU	MDI 0817 OFF 44.700 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF 44.700 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 44.700 3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1098 ON 44.704 0513IU STAGE SELECTOR
	IU	MDI 0782 OFF 44.704 3482SW SEL ZERO IND
	IU	MDI 0816 OFF 44.704 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF 44.704 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 44.704 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 44.704 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 44.704 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 44.704 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 ON 44.704 5163VXK0005-603
S1B		DDA 2093 ON 44.704 5166VXK0008-603
S1B		DDA 2094 ON 44.704 5167VXK0008-603
S1B		DDA 2098 ON 44.704 5171VXK0008-603
S1B		DDA 2099 ON 44.704 5172VXK0008-603
S1B		DDA 2100 ON 44.704 5173VXK0008-603
	IU	LDI 1090 ON 44.708 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 44.708 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 44.708 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 44.708 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 44.708 0509BIT NO 5 VERIFY
	IU	LDI 1096 ON 44.708 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 44.708 0512BIT NO 8 VERIFY
S1B	IU	MDI 2306 OFF 44.724 3766IU STAGE SEL
S1B	IU	MDI 2307 ON 44.728 3767RESET COMMAND
S1B S4B	IU	-3- 040 RESET 44.728
S1B		DDA 2084 ON 44.728 5160VXK0007-603
	IU	LDI 1098 OFF 44.732 0513IU STAGE SELECTOR
	IU	LDI 1099 ON 44.732 0514BIT NO 9 VERIFY
	IU	MDI 0782 ON 44.732 3482SW SEL ZERO IND
	IU	MDI 0816 ON 44.732 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 44.732 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 44.732 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 44.732 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 44.732 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON 44.732 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 44.732 3523REG CONT BIT 8 VERIFY IN
		DDA 2087 OFF 44.732 5163VXK0005-603
	IU	LDI 1091 OFF 44.740 0506BIT NO 2 VERIFY

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S1B		DDA 2086 ON	44.740	5162VXK0003-603
S1B		DDA 2098 OFF	44.740	5171VXK0008-603
S1B		DDA 2099 OFF	44.740	5172VXK0008-603
	IU	LDI 1090 OFF	44.744	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	44.744	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	44.744	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	44.744	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	44.744	0510BIT NO 7 VERIFY
	IU	LDI 1097 OFF	44.744	0512BIT NO 8 VERIFY
S1B		DDA 2094 OFF	44.744	5167VXK0008-603
S1B		DDA 2096 OFF	44.744	5169VXK0008-603
S1B		DDA 2100 OFF	44.744	5173VXK0008-603
S1B	IU	MDI 2306 ON	44.756	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	44.756	3767RESET COMMAND
	IU	LDI 1098 OFF	44.764	0513IU STAGE SELECTOR
	IU	MDI 0818 OFF	44.764	3518REG CONT BIT 3 VERIFY IN
S1B		DDA 2087 ON	44.764	5163VXK0005-603
	IU	LDI 1103 OFF	44.768	0517RESET COMMAND
	IU	MDI 0782 OFF	44.768	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	44.768	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	44.768	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF	44.768	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2084 OFF	44.768	5160VXK0007-603
	IU	LDI 1091 ON	44.772	0506BIT NO 2 VERIFY
	IU	LDI 1095 ON	44.772	0510BIT NO 6 VERIFY
S1B		DDA 2086 OFF	44.772	5162VXK0003-603
S1B		DDA 2095 ON	44.772	5168VXK0008-603
S1B		DDA 2099 ON	44.772	5172VXK0008-603
S1B	IU	MDI 2308 ON	44.828	3768READ COMMAND
S1B S4B	IU	-3- 335 READ	44.828	
	IU	LDI 0983 ON	44.832	0463SW SEL READ
	IU	LDI 1102 OFF	44.832	0516SW SEL READ
S1B		DDA 2149 ON	44.836	4134VK0004-603
S1B	IU	MDI 2306 OFF	44.856	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	44.856	3768READ COMMAND
S1B		DDA 2087 OFF	44.864	5163VXK0005-603
S1B	IU	LDI 0983 OFF	44.868	0463SW SEL READ
	IU	LDI 1098 OFF	44.868	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	44.868	0516SW SEL READ
	IU	MDI 0817 ON	44.868	3517REG CONT BIT 2 VERIFY IN
	IU	LDI 1091 OFF	44.872	0506BIT NO 2 VERIFY
	IU	MDI 0782 ON	44.872	3482SW SEL ZERO IND
	IU	MDI 0821 ON	44.872	3521REG CONT BIT 6 VERIFY IN

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S1B		DDA 2149 OFF 44.872 4134VXK0004-603
S1B		DDA 2086 ON 44.872 5162VXK0003-603
S1B		DDA 2099 OFF 44.872 5172VXK0008-603
S1B		DDA 2095 OFF 44.876 5168VXK0008-603
	IU	LDI 1095 OFF 44.880 0510BIT NO 6 VERIFY
S1B		MDI 2187 ON 44.984 2596TCS PULSE OK
S1B		MDI 2187 OFF 45.612 2596TCS PULSE OK
S1B		MDI 2187 ON 45.984 2596TCS PULSE OK
S1B		MDI 2187 OFF 46.612 2596TCS PULSE OK
S1B		MDI 2187 ON 46.984 2596TCS PULSE OK
S1B		MDI 2187 OFF 47.612 2596TCS PULSE OK
S1B	IU	MDI 2305 ON 47.684 3765S-IVR STAGE SEL
	IU	LDI 1099 ON 47.688 0514S-IVR STAGE SELECTOR
S4B		MDI 1844 OFF 47.688 3928SW SEL ZERO
S1B		DDA 2088 ON 47.688 5164VXK0005-603
	IU	MDI 0816 OFF 47.692 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 47.692 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 47.692 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF 47.692 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 47.692 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 47.692 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON 47.696 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 47.696 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 47.696 0507BIT NO 3 VERIFY
	IU	LDI 1094 ON 47.696 0509BIT NO 5 VERIFY
	IU	LDI 1097 ON 47.696 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 47.696 5166VXK0008-603
S1B		DDA 2095 ON 47.696 5168VXK0008-603
S1B		DDA 2096 ON 47.696 5169VXK0008-603
S1B		DDA 2098 ON 47.696 5171VXK0008-603
S1B		DDA 2099 ON 47.696 5172VXK0008-603
S1B		DDA 2100 ON 47.696 5173VXK0008-603
	IU	LDI 1095 ON 47.700 0510BIT NO 6 VERIFY
S1B	IU	MDI 2305 OFF 47.716 3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON 47.716 3767RESET COMMAND
S1B	IU	MDI 1844 ON 47.720 3928SW SEL ZERO
S4B		DDA 2084 ON 47.720 5160VXK0007-603
S1B		LDI 1099 OFF 47.724 0514S-IVR STAGE SELECTOR
	IU	LDI 1103 ON 47.724 0517RESET COMMAND
	IU	MDI 0816 ON 47.724 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 47.724 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 47.724 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON 47.724 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 47.724 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON 47.724 3523REG CONT BIT 8 VERIFY IN

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S1B		DDA 2088	OFF	47.724	5164VXK0005-603	
	IU	LDI 1091	OFF	47.732	0506BIT NO 2 VERIFY	
S1B		DDA 2093	OFF	47.732	5166VXK0008-603	
S1B		DDA 2098	OFF	47.732	5171VXK0008-603	
S1B		DDA 2099	OFF	47.732	5172VXK0008-603	
S1B		DDA 2100	OFF	47.732	5173VXK0008-603	
	IU	LDI 1090	OFF	47.736	0505BIT NO 1 VERIFY	
	IU	LDI 1092	OFF	47.736	0507BIT NO 3 VERIFY	
	IU	LDI 1094	OFF	47.736	0509BIT NO 5 VERIFY	
	IU	LDI 1095	OFF	47.736	0510BIT NO 6 VERIFY	
	IU	LDI 1097	OFF	47.736	0512BIT NO 8 VERIFY	
S4B		LDO 1844	OFF	47.736	4535SW SEL ZERO	
S1B		DDA 2095	OFF	47.736	5168VXK0008-603	
S1B		DDA 2096	OFF	47.736	5169VXK0008-603	
S1B	IU	MDI 2305	ON	47.748	3765S-IVB STAGE SEL	
S1B	IU	MDI 2307	OFF	47.748	3767RESET COMMAND	
	IU	LDI 1099	ON	47.756	0514S-IVB STAGE SELECTOR	
S1B		DDA 2084	OFF	47.756	5160VXK0007-603	
S1B		DDA 2088	ON	47.756	5164VXK0005-603	
	IU	LDI 1103	OFF	47.760	0517RESET COMMAND	
	IU	MDI 0816	OFF	47.760	3516REG CONT BIT 1 VERIFY IN	
	IU	MDI 0817	OFF	47.760	3517REG CONT BIT 2 VERIFY IN	
	IU	MDI 0818	OFF	47.760	3518REG CONT BIT 3 VERIFY IN	
	IU	MDI 0820	OFF	47.760	3520REG CONT BIT 5 VERIFY IN	
	IU	MDI 0821	OFF	47.760	3521REG CONT BIT 6 VERIFY IN	
	IU	MDI 0823	OFF	47.760	3523REG CONT BIT 8 VERIFY IN	
S4B		MDI 1844	OFF	47.760	3928SW SEL ZERO	
	IU	LDI 1090	ON	47.764	0505BIT NO 1 VERIFY	
	IU	LDI 1091	ON	47.764	0506BIT NO 2 VERIFY	
	IU	LDI 1093	ON	47.764	0508BIT NO 4 VERIFY	
	IU	LDI 1096	ON	47.764	0511BIT NO 7 VERIFY	
	IU	LDI 1097	ON	47.764	0512BIT NO 8 VERIFY	
	IU	MDI 0816	ON	47.764	3516REG CONT BIT 1 VERIFY IN	
	IU	MDI 0818	ON	47.764	3518REG CONT BIT 3 VERIFY IN	
	IU	MDI 0819	OFF	47.764	3519REG CONT BIT 4 VERIFY IN	
	IU	MDI 0820	ON	47.764	3520REG CONT BIT 5 VERIFY IN	
	IU	MDI 0821	ON	47.764	3521REG CONT BIT 6 VERIFY IN	
	IU	MDI 0822	OFF	47.764	3522REG CONT BIT 7 VERIFY IN	
	IU	MDI 0823	ON	47.764	3523REG CONT BIT 8 VERIFY IN	
S1B		DDA 2094	ON	47.764	5167VXK0008-603	
S1B		DDA 2099	ON	47.764	5172VXK0008-603	
S1B		DDA 2100	ON	47.764	5173VXK0008-603	
	IU	LDI 1090	OFF	47.776	0505BIT NO 1 VERIFY	
	IU	LDI 1097	OFF	47.776	0512BIT NO 8 VERIFY	
S1B		DDA 2093	OFF	47.776	5166VXK0008-603	

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S10		DDA 2100 OFF 47.776 5173VXK0008-603
S4B		LDO 1844 ON 47.788 4535SW SEL ZERO
S10	IU	MDI 2308 ON 47.828 3768READ COMMAND
S10	IU	-2- 265 READ 47.828
S10		DDA 2085 ON 47.828 5161VXK0006-603
	IU	LDI 0983 ON 47.832 0463SW SEL READ
	IU	LDI 1102 ON 47.832 0516SW SEL READ
S10		DDA 2085 ON 47.832 4080VXK0128-404
S4B		LDO 1844 OFF 47.832 4535SW SEL ZERO
S18	IU	MDI 2305 OFF 47.860 3765S-IVB STAGE SEL
S18	IU	MDI 2308 OFF 47.860 3768READ COMMAND
	S4B	MDI 1844 ON 47.868 3928SW SEL ZERO
	IU	MDI 0817 ON 47.872 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 47.872 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON 47.872 3522REG CONT BIT 7 VERIFY IN
S18		DDA 2085 OFF 47.872 5161VXK0006-603
S18		DDA 2088 OFF 47.872 5164VXK0005-603
	IU	LDI 1099 OFF 47.876 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 47.876 0516SW SEL READ
S18		DDA 2029 OFF 47.880 4080VXK0128-404
S18		DDA 2099 OFF 47.880 5172VXK0008-603
	IU	LDI 1091 OFF 47.884 0506BIT NO 2 VERIFY
	IU	LDI 1093 OFF 47.884 0508BIT NO 4 VERIFY
S18		DDA 2094 OFF 47.884 5167VXK0008-603
	IU	LDI 1091 OFF 47.884 0513BIT NO 7 VERIFY
S4B		LDO 1844 ON 47.916 4535SW SEL ZERO
S18		MDI 2187 ON 47.984 2596TCS PULSE OK
S18		DDA 2029 ON 48.000 4080VXK0128-404
S18		DDA 2030 ON 48.084 4081VXK0128-404
S18		DDA 2029 OFF 48.088 4080VXK0128-404
S18		DDA 2029 ON 48.248 4080VXK0128-404
S18		DDA 2029 OFF 48.336 4080VXK0128-404
S18		DDA 2030 OFF 48.340 4081VXK0128-404
S18		MDI 2187 OFF 48.612 2596TCS PULSE OK
	IU	DDA 1906 ON 48.652 1603EDS RG PITCH AXIS SEL ON
	IU	MDI 0631 ON 48.652 3331EDSRG PITCH AXIS SELECT
S10	IU	MDI 2305 ON 48.676 3765S-IVB STAGE SEL
	IU	LDI 1099 ON 48.680 0514S-IVB STAGE SELECTOR
	IU	MDI 0822 OFF 48.680 3522REG CONT BIT 7 VERIFY IN
S4B		MDI 1844 OFF 48.680 3928SW SEL ZERO
S10		DDA 2088 ON 48.680 5164VXK0005-603
	IU	MDI 0817 OFF 48.684 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 48.684 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 48.684 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 48.684 3521REG CONT BIT 6 VERIFY IN

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	IU	MDI 0823 OFF	48.684	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON	48.688	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	48.688	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	48.688	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	48.688	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	48.688	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	48.688	5166VXK0008-603
S1B		DDA 2094 ON	48.688	5167VXK0008-603
S1B		DDA 2095 ON	48.688	5168VXK0008-603
S1B		DDA 2096 ON	48.688	5169VXK0008-603
S1B		DDA 2099 ON	48.688	5172VXK0008-603
	IU	LDI 1095 ON	48.692	0510BIT NO 6 VERIFY
S1B	IU	MDI 2305 OFF	48.696	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	48.696	3767RESET COMMAND
S1B S4B	IU	-2- 005 RESET	48.696	
S4B		MDI 1844 ON	48.700	3928SW SEL ZERO
	IU	LDI 1103 ON	48.704	0517RESET COMMAND
	IU	MDI 0817 ON	48.704	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	48.704	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	48.704	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	48.704	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	48.704	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	48.704	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	48.704	5160VXK0007-603
S1B		DDA 2099 OFF	48.704	5172VXK0008-603
	IU	LDI 1091 OFF	48.708	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	48.708	0512BIT NO 8 VERIFY
	IU	LDI 1099 OFF	48.708	0514S-IVB STAGE SELECTOR
S1B		DDA 2088 OFF	48.708	5164VXK0005-603
S1B		DDA 2094 OFF	48.708	5167VXK0008-603
S1B		DDA 2096 OFF	48.708	5169VXK0008-603
	IU	LDI 1093 OFF	48.712	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	48.712	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	48.712	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	48.712	0511BIT NO 7 VERIFY
S1B	IU	MDI 2305 ON	48.712	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	48.712	3767RESET COMMAND
S1B		DDA 2095 OFF	48.712	5168VXK0008-603
	IU	LDI 0631 ON	48.716	4398EDSRG PITCH AXIS SELECT
	IU	LDI 1099 ON	48.720	0514S-IVB STAGE SELECTOR
S4B		MDI 1844 OFF	48.720	3928SW SEL ZERO
S1B		DDA 2088 ON	48.720	5164VXK0005-603
	IU	LDI 1103 OFF	48.724	0517RESET COMMAND
	IU	MDI 0817 OFF	48.724	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	48.724	3516REG CONT BIT 3 VERIFY IN

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	IU	MDI 0819 OFF 48.724 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF 48.724 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 48.724 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 48.724 3523REG CONT BIT 8 VERIFY IN
S1	DDA 2084 OFF 48.724 5160VXK0007-603	
	IU	MDI 0816 OFF 48.728 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 48.728 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF 48.728 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 48.728 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 48.728 3523REG CONT BIT 8 VERIFY IN
S1B	DDA 2085 OFF 48.728 5171VXK0008-603	
S1B	DDA 2099 OFF 48.728 5172VXK0008-603	
S1B	DDA 2100 OFF 48.728 5173VXK0008-603	
	IU	LDI 1090 OFF 48.732 0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF 48.732 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 48.732 0507BIT NO 3 VERIFY
S4B	LDO 1844 OFF 48.752 4535SW SEL ZERO	
S4B	LDO 1844 OFF 48.760 4535SW SEL ZERO	
S4B	LDO 1844 OFF 48.800 4535SW SEL ZERO	
S1B	IU	MDI 2308 OFF 48.828 3768READ COMMAND
S1B S4B	IU	-2- 370 48.828
	IU	LDI 0983 ON 48.840 0463SW SEL READ
	IU	LDI 1102 ON 48.840 0516SW SEL READ
S1B	DDA 2029 ON 48.840 4080VK0128-404	
S1B	DDA 2085 ON 48.840 5161VXK0006-603	
S1B	IU	MDI 2305 OFF 48.864 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 48.864 3768READ COMMAND
S4B	MDI 1844 ON 48.872 3928SW SEL ZERO	
S1B	DDA 2085 OFF 48.872 5161VXK0006-603	
S1B	DDA 2088 OFF 48.872 5164VXK0005-603	
	IU	LDI 0983 OFF 48.876 0463SW SEL READ
	IU	LDI 1099 OFF 48.876 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 48.876 0516SW SEL READ
	IU	MDI 0816 ON 48.876 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 48.876 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 48.876 3518REG CONT BIT 3 VERIFY IN
S1B	DDA 2099 OFF 48.880 5172VXK0008-603	
	IU	LDI 1090 OFF 48.884 0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF 48.884 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 48.884 0507BIT NO 3 VERIFY
S1B	DDA 2098 OFF 48.884 5171VXK0008-603	
S1B	DDA 2100 OFF 48.884 5173VXK0008-603	
S1B	DDA 2029 OFF 48.888 4080VK0128-404	
S4B	LDO 1844 ON 48.916 4535SW SEL ZERO	
S1B	MDI 2187 ON 48.984 2596TCS PULSE OK	
S1B	MDI 2187 OFF 49.612 2596TCS PULSE OK	

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S1B	IU	MDI 2306 ON	49.708	3766IU STAGE SEL
	IU	LDI 1098 ON	49.712	0513IU STAGE SELECTOR
	IU	MDI 0817 OFF	49.712	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF	49.712	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2087 ON	49.712	5163VXK0005-603
	IU	MDI 0782 OFF	49.716	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	49.716	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF	49.716	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	49.716	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	49.716	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	49.716	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2094 ON	49.720	5167VXK0008-603
S1B		DDA 2098 ON	49.720	5171VXK0008-603
S1B		DDA 2099 ON	49.720	5172VXK0008-603
S1B		DDA 2100 ON	49.720	5173VXK0008-603
	IU	LDI 1090 ON	49.724	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	49.724	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	49.724	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	49.724	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	49.724	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	49.724	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	49.724	0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF	49.724	5162VXK0003-603
S1B		DDA 2095 ON	49.724	5168VXK0008-603
S1B	IU	MDI 2306 OFF	49.740	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	49.740	3767RESET COMMAND
S1B S4B	IU	-3- 020 RESET	49.740	
	IU	MDI 0782 ON	49.744	3482SW SEL ZERO IND
	IU	MDI 0816 ON	49.744	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	49.744	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	49.744	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	49.744	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	49.744	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	49.744	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	49.744	5160VXK0007-603
	IU	LDI 1091 OFF	49.748	0506BIT NO 2 VERIFY
	IU	LDI 1103 OFF	49.748	0517RESET COMMAND
	IU	LDI 1103 ON	49.748	0517RESET COMMAND
	IU	MDI 0821 ON	49.748	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2086 ON	49.748	5162VXK0003-603
S1B		DDA 2087 OFF	49.748	5163VXK0005-603
S1B		DDA 2093 OFF	49.748	5166VXK0008-603
S1B		DDA 2098 OFF	49.748	5171VXK0008-603
S1B		DDA 2099 OFF	49.748	5172VXK0008-603
	IU	LDI 1090 OFF	49.752	0505BIT NO 1 VERIFY

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	IU	LDI 1092	OFF	49.752	0507BIT NO 3 VERIFY
	IU	LDI 1093	OFF	49.752	0508BIT NO 4 VERIFY
	IU	LDI 1095	OFF	49.752	0510BIT NO 6 VERIFY
	IU	LDI 1096	OFF	49.752	0511BIT NO 7 VERIFY
	IU	LDI 1097	OFF	49.752	0512BIT NO 8 VERIFY
S1B	IU	MDI 2306	ON	49.752	3766IU STAGE SEL
S1B	IU	MDI 2307	OFF	49.752	3767RESET COMMAND
S1B		DDA 2094	OFF	49.752	5167VXK0008-603
S1B		DDA 2095	OFF	49.752	5168VXK0008-603
S1B		DDA 2100	OFF	49.752	5173VXK0008-603
	IU	LDI 1098	ON	49.764	0513IU STAGE SELECTOR
	IU	MDI 0816	OFF	49.764	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817	OFF	49.764	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	49.764	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	49.764	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	OFF	49.764	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	49.764	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	OFF	49.764	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084	OFF	49.764	5160VXK0007-603
S1B		DDA 2087	ON	49.764	5163VXK0005-603
	IU	LDI 1103	OFF	49.768	0517RESET COMMAND
	IU	MDI 0782	OFF	49.768	3482SW SEL ZERO IND
	IU	MDI 0816	ON	49.768	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818	ON	49.768	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	49.768	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820	OFF	49.768	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821	ON	49.768	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	ON	49.768	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823	ON	49.768	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1094	ON	49.772	0509BIT NO 5 VERIFY
S1B		DDA 2086	OFF	49.772	5162VXK0003-603
S1B		DDA 2096	ON	49.772	5169VXK0008-603
S1B		DDA 2099	ON	49.772	5172VXK0008-603
S1B	IU	MDI 2308	ON	49.828	3768READ COMMAND
S1B S4B	IU	-3- 355	READ	49.828	
S1B		DDA 2085	ON	49.828	5161VXK0006-603
	IU	LDI 0983	ON	49.832	0463SW SEL READ
	IU	LDI 1102	ON	49.832	0516SW SEL READ
S1B		DDA 2149	ON	49.836	4134VK0004-603
S1B	IU	MDI 2306	OFF	49.856	3766IU STAGE SEL
S1B	IU	MDI 2308	OFF	49.856	3768READ COMMAND
S1B		DDA 2085	OFF	49.864	5161VXK0006-603
S1B		DDA 2087	OFF	49.864	5163VXK0005-603
	IU	LDI 0983	OFF	49.868	0463SW SEL READ
	IU	LDI 1098	OFF	49.868	0513IU STAGE SELECTOR

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	IU	LDI 1102 OFF 49.868 0516SW SEL READ
	IU	MDI 0817 ON 49.868 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON 49.868 3520REG CONT BIT 5 VERIFY IN
	IU	LDI 1091 OFF 49.872 0506BIT NO 2 VERIFY
	IU	MDI 0782 ON 49.872 3482SW SEL ZERO IND
S1B		DDA 2149 OFF 49.872 4134VK0004-603
S1B		DDA 2086 ON 49.872 5162VXK0003-603
S1B		DDA 2099 OFF 49.872 5172VXK0008-603
	IU	LDI 1094 OFF 49.876 0509BIT NO 5 VERIFY
S1B		DDA 2194 OFF 49.876 5169VXK0008-603
S1B		MDI 2187 ON 49.984 2596TCS PULSE OK
S1B		MDI 2187 OFF 50.812 2596TCS PULSE OK
S1B		MDI 2187 ON 50.984 2596TCS PULSE OK
S1B		DDA 2073 ON 51.548 4201VX0003-602
S1B		MDI 2187 OFF 51.612 2596TCS PULSE OK
	IU	MDI 0889 ON 51.700 3577RAMP IND
	IU	MDI 2236 OFF 51.712 2605RAMP NO 1 ZERO
	IU	MDI 2237 OFF 51.716 2606RAMP NO 2 ZERO
	IU	MDI 2238 OFF 51.720 2607RAMP NO 3 ZERO
	IU	LDO 0889 ON 51.776 4674RAMP IND
S1B		MDI 2187 ON 51.984 2596TCS PULSE OK
S1B		DDA 2124 OFF 52.052 4118VR0030-602
S1B		MDI 2187 OFF 52.612 2596TCS PULSE OK
S1B		MDI 2187 ON 52.984 2596TCS PULSE OK
S1B		MDI 2187 OFF 53.612 2596TCS PULSE OK
S1B		MDI 2187 ON 53.984 2596TCS PULSE OK
S1B		MDI 2187 OFF 54.612 2596TCS PULSE OK
S1B		MDI 2187 ON 54.984 2596TCS PULSE OK
S1B		MDI 2187 OFF 55.612 2596TCS PULSE OK
S1B		MDI 2187 ON 55.984 2596TCS PULSE OK
S1B		MDI 2187 OFF 56.612 2596TCS PULSE OK
S1B		MDI 2187 ON 56.984 2596TCS PULSE OK
S1B		MDI 2187 OFF 57.612 2596TCS PULSE OK
S1B		MDI 2187 ON 57.980 2596TCS PULSE OK
S1B		MDI 2187 OFF 58.612 2596TCS PULSE OK
S1B		MDI 2187 ON 58.980 2596TCS PULSE OK
S1B		MDI 2187 OFF 59.612 2596TCS PULSE OK
S1B		MDI 2187 ON 59.980 2596TCS PULSE OK
S1B 342	IU	LDO 0620 ON 00.612 4387RATE EXCES PITCH SPARE
S1B		MDI 2187 OFF 00.612 2596TCS PULSE OK
	IU	MDI 0620 ON 00.612 3320RATE EXCES PITCH SPARE
S1B		DDA 2079 ON 00.644 4113VR0016-602
	IU	MDI 0618 ON 00.658 4310RATE EXCES PITCH REF
	IU	LDO 0620 ON 00.664 4387RATE EXCES PITCH SPARE
S1B		DDA 2008 ON 00.712 4067VR0032-602

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	IU	LDO 0618 ON	00.716	4385RATE EXCES PITCH REF
S1B		DDA 2073 ON	00.728	4107VR0022-602
	IU	MDI 0619 ON	00.760	3319RATE EXCES PITCH COMMAND
S1B		DDA 2076 ON	00.812	4110VR0019-602
	IU	LDO 0619 ON	00.848	4386RATE EXCES PITCH COMMAND
S1B		MDI 2187 ON	00.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	01.612	2596TCS PULSE OK
	IU	MDO 0695 OFF	01.672	2027RAMP NEG
	IU	MDO 0889 OFF	01.680	3577RAMP IND
	IU	LDO 0889 OFF	01.740	4674RAMP IND
S1B		MDI 2187 ON	01.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	02.812	2596TCS PULSE OK
S1B		MDI 2187 ON	02.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	03.612	2596TCS PULSE OK
S1B		MDI 2187 ON	03.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	04.612	2596TCS PULSE OK
	IU	MDI 0635 ON	04.656	3335EDSRG ZERO TORQUE COMM
S1B		DDA 2124 ON	04.968	4118VR0030-602
S1B		MDI 2187 ON	04.980	2596TCS PULSE OK
S1B		DDA 2124 OFF	05.384	4118VR0030-602
S1B		MDI 2187 OFF	05.612	2596TCS PULSE OK
	IU	MDI 0619 OFF	05.752	3319RATE EXCES PITCH COMMAND
S1B		DDA 2076 OFF	05.812	4110VR0019-602
	IU	LDO 0619 OFF	05.820	4386RATE EXCES PITCH COMMAND
	IU	MDI 0618 OFF	05.864	3318RATE EXCES PITCH REF
S1B		DDA 2008 OFF	05.880	4067VR0032-602
S1B		DDA 2073 OFF	05.896	4107VR0022-602
	IU	MDI 0620 OFF	05.904	3320RATE EXCES PITCH SPARE
	IU	LDO 0618 OFF	05.912	4385RATE EXCES PITCH REF
	IU	LDO 0620 OFF	05.960	4387RATE EXCES PITCH SPARE
S1B		MDI 2187 ON	05.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	06.800	4118VR0030-602
S1B		MDI 2187 OFF	06.612	2596TCS PULSE OK
S1B		MDI 2187 ON	06.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	07.612	2596TCS PULSE OK
S1B		MDI 2187 ON	07.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	08.612	2596TCS PULSE OK
S1B		MDI 2187 ON	08.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	09.608	2596TCS PULSE OK
S1B		MDI 2187 ON	09.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	10.608	2596TCS PULSE OK
S1B		MDI 2187 ON	10.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	11.608	2596TCS PULSE OK
S1B		MDI 2187 ON	11.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	12.608	2596TCS PULSE OK
S1B		MDI 2187 ON	12.980	2596TCS PULSE OK

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S1A		MDI 2187 OFF	13.608	2596TCS PULSE OK
S1A		MDI 2187 ON	13.980	2596TCS PULSE OK
S1A		MDI 2187 OFF	14.608	2596TCS PULSE OK
	IU	MDI 2236 ON	14.636	2605RAMP NO 1 ZERO
	IU	MDI 2237 ON	14.640	2606RAMP NO 2 ZERO
	IU	MDI 2238 ON	14.640	2607RAMP NO 3 ZERO
	IU	MDI 0635 OFF	14.644	3335EDSRG ZERO TORQUE COMM
	IU	MDI 1906 OFF	14.704	1603EDS RG PITCH AXIS SEL ON
	IU	MDI 0631 OFF	14.704	3331EDSRG PITCH AXIS SELECT
S1B		DDA 2124 ON	14.800	4118VR0030-602
	IU	LDO 0631 OFF	14.800	4398EDSRG PITCH AXIS SELECT
S1B		MDI 2187 OFF	15.608	2596TCS PULSE OK
S1B		MDI 2187 OFF	15.608	2596TCS PULSE OK
S1B		MDI 2187 OFF	16.608	2596TCS PULSE OK
	IU	LDO 0630 ON	16.736	4397EDSRG YAW AXIS SELECT
S1B		MDI 2187 ON	16.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	17.608	2596TCS PULSE OK
S1B		MDI 2187 ON	17.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	18.608	2596TCS PULSE OK
S1B		MDI 2187 ON	18.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	19.608	2596TCS PULSE OK
	IU	MDI 0889 ON	19.700	3577RAMP IND
	IU	MDI 2236 OFF	19.716	2605RAMP NO 1 ZERO
	IU	MDI 2237 OFF	19.716	2606RAMP NO 2 ZERO
	IU	MDI 2238 OFF	19.716	2607RAMP NO 3 ZERO
	IU	LDO 0889 ON	19.748	4674RAMP IND
S1B		DDA 2126 OFF	20.132	4120VR0028-602
S1B		MDI 2187 OFF	20.608	2596TCS PULSE OK
S1B		MDI 2187 ON	20.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	21.608	2596TCS PULSE OK
S1B		MDI 2187 ON	21.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	22.608	2596TCS PULSE OK
S1B		MDI 2187 ON	22.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	23.608	2596TCS PULSE OK
S1B		MDI 2187 ON	23.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	24.608	2596TCS PULSE OK
S1B		MDI 2187 ON	24.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	25.608	2596TCS PULSE OK
S1B		MDI 2187 ON	25.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	26.608	2596TCS PULSE OK
S1B		MDI 2187 ON	26.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	27.608	2596TCS PULSE OK

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S18		MDI 2187 ON	27.980	2596TCS PULSE OK
	IU	MDI 0621 ON	28.572	3321RATE EXCES YAW REF
S18		MDI 2187 OFF	28.608	2596TCS PULSE OK
	IU	LDO 0621 ON	28.624	4388RATE EXCES YAW REF
S18		DDA 2078 ON	28.640	4112VR0017-602
	IU	MDI 0622 ON	28.880	3322RATE EXCES YAW SPARE
	IU	MDI 0623 ON	28.884	3323RATE EXCES YAW COMMAND
S18		DDA 2072 ON	28.888	4106VR0023-602
S18		DDA 2075 ON	28.888	4109VR0020-602
	IU	LDO 0623 ON	28.944	4390RATE EXCES YAW SPARE
	IU	LDO 0623 ON	28.944	4390RATE EXCES YAW COMMAND
S18		DDA 2008 ON	28.956	4067VR0032-602
S18		MDI 2187 ON	28.980	2596TCS PULSE OK
S18		MDI 2187 OFF	29.608	2596TCS PULSE OK
	IU	MDI 0695 OFF	29.680	2027RAMP NEG
	IU	MDI 0889 OFF	29.688	3577RAMP IND
	IU	LDO 0889 OFF	29.756	4674RAMP IND
S18		MDI 2187 ON	29.980	2596TCS PULSE OK
S18		MDI 2187 OFF	30.608	2596TCS PULSE OK
S18		MDI 2187 ON	30.608	2596TCS PULSE OK
S18		MDI 2187 OFF	31.608	2596TCS PULSE OK
S18		MDI 2187 ON	31.980	2596TCS PULSE OK
S18		MDI 2187 OFF	32.608	2596TCS PULSE OK
	IU	MDI 0635 ON	32.684	3335EDSRG ZERO TORQUE COMM
S18		DDA 2126 ON	32.796	4120VR0028-602
S18		MDI 2187 ON	32.980	2596TCS PULSE OK
S18		MDI 2187 OFF	33.608	2596TCS PULSE OK
	IU	MDI 0622 OFF	33.656	3322RATE EXCES YAW SPARE
	IU	MDI 0623 OFF	33.664	3323RATE EXCES YAW COMMAND
S18		DDA 2008 OFF	33.708	4067VR0032-602
	IU	LDO 0622 OFF	33.716	4389RATE EXCES YAW SPARE
S18		DDA 2075 OFF	33.724	4109VR0020-602
S18		LDO 0623 OFF	33.728	4390RATE EXCES YAW COMMAND
	IU	MDI 0621 OFF	33.976	3321RATE EXCES YAW REF
S18		MDI 2187 ON	33.980	2596TCS PULSE OK
	IU	LDO 0621 OFF	34.028	4388RATE EXCES YAW REF
S18		DDA 2126 OFF	34.296	4120VR0028-602
S18		MDI 2187 OFF	34.608	2596TCS PULSE OK
S18		MDI 2187 ON	34.980	2596TCS PULSE OK
S18		DDA 2126 OFF	35.296	4120VR0028-602
S18		MDI 2187 OFF	35.608	2596TCS PULSE OK
S18		DDA 2126 ON	35.880	4120VR0028-602
S18		MDI 2187 ON	35.980	2596TCS PULSE OK
S18		DDA 2126 OFF	36.296	4120VR0028-602
S18		MDI 2187 OFF	36.608	2596TCS PULSE OK

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S1A		DDA 2126 ON	36.712	4120VR0028-602
S1A		DDA 2126 OFF	36.964	4120VR0028-602
S1A		MDI 2187 ON	36.980	2596TCS PULSE OK
S1A		MDI 2187 OFF	37.137	4120VR0028-602
S1A		DDA 0023 OFF	37.160	5201VK0353-340
P1A		DDA 2126 OFF	37.296	4120VR0028-602
P1A		MDI 2187 OFF	37.608	2596TCS PULSE OK
P1A		MDI 2187 ON	37.980	2596TCS PULSE OK
P1A		MDI 2187 OFF	38.608	2596TCS PULSE OK
P1A		MDI 2187 ON	39.188	2596TCS PULSE OK
S1A		MDI 2187 OFF	39.608	2596TCS PULSE OK
S1A		MDI 2187 ON	39.980	2596TCS PULSE OK
S1A		MDI 2187 OFF	40.608	2596TCS PULSE OK
S1A		MDI 2187 ON	40.980	2596TCS PULSE OK
S1A		MDI 2187 OFF	41.608	2596TCS PULSE OK
S1A		MDI 2187 ON	41.980	2596TCS PULSE OK
S1A		MDI 2187 OFF	42.608	2596TCS PULSE OK
	IU	MDI 2236 ON	42.676	2605RAMP NO 1 ZERO
	IU	MDI 2237 ON	42.676	2606RAMP NO 2 ZERO
	IU	MDI 2238 ON	42.676	2607RAMP NO 3 ZERO
	IU	MDI 0635 OFF	42.680	3335EDSRG ZERO TORQUE COMM
	IU	MDI 0630 OFF	42.732	3330EDSRG YAW AXIS SELECT
S1B		DDA 2126 ON	42.796	4120VR0028-602
	IU	LDO 0630 OFF	42.816	4397EDSRG YAW AXIS SELECT
S1B		MDI 2187 ON	42.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	43.608	2596TCS PULSE OK
S1B		MDI 2187 ON	43.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	44.608	2596TCS PULSE OK
	IU	MDO 1904 ON	44.640	1601EDSRG ROLL AXIS SEL ON
	IU	MDI 0632 ON	44.644	3332EDSRG ROLL AXIS SELECT
	IU	LDO 0632 ON	44.708	4399EDSRG ROLL AXIS SELECT
S1A		MDI 2187 ON	44.980	2596TCS PULSE OK
S1B		DDA 0023 ON	45.236	5201VK0353-340
S1B		MDI 2187 OFF	45.608	2596TCS PULSE OK
S1B		MDI 2187 ON	45.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	46.608	2596TCS PULSE OK
S1B		MDI 2187 ON	46.980	2596TCS PULSE OK
S1B		MDI 2187 OFF	47.608	2596TCS PULSE OK
	IU	MDO 0695 ON	47.664	2027RAMP NEG
	IU	MDI 0889 ON	47.668	3577RAMP IND
	IU	MDI 2236 OFF	47.688	2605RAMP NO 1 ZERO
	IU	MDI 2237 OFF	47.688	2606RAMP NO 2 ZERO
	IU	MDI 2238 OFF	47.688	2607RAMP NO 3 ZERO
	IU	LDO 0889 ON	47.740	4674RAMP IND
S1B		MDI 2187 ON	47.980	2596TCS PULSE OK
S1B		DDA 2125 OFF	48.048	4119VR0029-602

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S1A	DDA 2126 OFF 48.128 4120VR0028-602
S1A	MDI 2187 OFF 48.608 2596TCS PULSE OK
S1A	MDI 2187 ON 48.976 2596TCS PULSE OK
S1A	MDI 2187 OFF 49.608 2596TCS PULSE OK
S1A	MDI 2187 ON 49.980 2596TCS PULSE OK
S1A	MDI 2187 OFF 50.608 2596TCS PULSE OK
S1A	MDI 2187 ON 50.980 2596TCS PULSE OK
S1A	MDI 2187 OFF 51.608 2596TCS PULSE OK
S1A	MDI 2187 ON 51.976 2596TCS PULSE OK
S1A	DDA 2126 ON 52.544 4120VR0028-602
S1A	MDI 2187 OFF 52.608 2596TCS PULSE OK
S1A	DDA 2126 OFF 52.796 4120VR0028-602
S1A	MDI 2187 ON 52.976 2596TCS PULSE OK
S1A	DDA 2126 ON 53.460 4120VR0028-602
S1B	MDI 2187 OFF 53.608 2596TCS PULSE OK
S1B	DDA 2126 OFF 53.796 4120VR0028-602
S1B	MDI 2187 ON 53.976 2596TCS PULSE OK
S1A	DDA 2126 ON 54.128 4120VR0028-602
S1A	MDI 2187 OFF 54.608 2596TCS PULSE OK
S1A	MDI 2187 ON 54.976 2596TCS PULSE OK
S1A	MDI 2187 OFF 55.608 2596TCS PULSE OK
S1A	MDI 2187 ON 55.976 2596TCS PULSE OK
S1A	MDI 2187 OFF 56.608 2596TCS PULSE OK
S1A	MDI 2187 ON 56.976 2596TCS PULSE OK
S1A	MDI 2187 OFF 57.608 2596TCS PULSE OK
S1A	MDI 2187 ON 57.976 2596TCS PULSE OK
S1A	DDA 0023 OFF 58.404 5201VK0353-340
S1B	MDI 2187 OFF 58.608 2596TCS PULSE OK
S1A	MDI 2187 ON 58.976 2596TCS PULSE OK
S1A	DDA 0023 ON 58.976 5201VK0353-340
S1A	MDI 2187 OFF 59.608 2596TCS PULSE OK
S1A	MDI 2187 ON 59.976 2596TCS PULSE OK
S1B S4B IU	CDC 00 12
S1B	MDI 2187 OFF 00.608 2596TCS PULSE OK
S1B	MDI 2187 ON 00.976 2596TCS PULSE OK
S1B	MDI 2187 OFF 01.608 2596TCS PULSE OK
S1B	MDI 2187 ON 01.976 2596TCS PULSE OK
S1B	MDI 2187 OFF 02.608 2596TCS PULSE OK
S1B	MDI 2187 ON 02.976 2596TCS PULSE OK
S1B	MDI 2187 OFF 03.604 2596TCS PULSE OK
S1B	MDI 2187 ON 03.976 2596TCS PULSE OK
S1B	MDI 2187 OFF 04.604 2596TCS PULSE OK
S1B	MDI 2187 ON 04.976 2596TCS PULSE OK
S1B	MDI 2187 OFF 05.604 2596TCS PULSE OK
S1B	MDI 2187 ON 05.976 2596TCS PULSE OK
S1B	DDA 2125 ON 06.208 4119VR0029-602

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S1B		MDI 2187 OFF	06.604	2596TCS PULSE OK
S1B		MDI 2187 ON	06.976	2596TCS PULSE OK
	IU	MDI 0625 0	07.424	3325RATE EXCES ROLL REF
S1B		DDA 2074 ON	07.468	4108VR0021-602
	IU	LDO 0625 ON	07.476	4392RATE EXCES ROLL REF
S1B		MDI 2187 OFF	07.604	2596TCS PULSE OK
S1B		MDI 2187 ON	07.976	2596TCS PULSE OK
	IU	MDI 0624 ON	08.028	3324RATE EXCES ROLL COMMAND
S1B		DDA 2009 ON	08.036	4068VR0031-602
	IU	MDI 0626 ON	08.040	3326RATE EXCES ROLL SPARE
S1B		DDA 2071 ON	08.052	4105VR0024-602
S1B		DDA 2077 ON	08.052	4111VR0018-602
	IU	LDO 0624 ON	08.076	4391RATE EXCES ROLL COMMAND
	IU	LDO 0626 ON	08.116	4393RATE EXCES ROLL SPARE
S1B		MDI 2187 OFF	08.604	2596TCS PULSE OK
S1B		MDI 2187 ON	08.976	2596TCS PULSE OK
S1B		MDI 2187 OFF	09.604	2596TCS PULSE OK
S1B		MDI 2187 ON	09.976	2596TCS PULSE OK
S1B		MDI 2187 OFF	10.604	2596TCS PULSE OK
	IU	MDI 0695 OFF	10.692	2027RAMP NEG
	IU	MDI 0889 OFF	10.700	3577RAMP IND
	IU	LDO 0889 OFF	10.768	4674RAMP IND
S1B		MDI 2187 ON	10.976	2596TCS PULSE OK
S1B		MDI 2187 OFF	11.604	2596TCS PULSE OK
S1B		MDI 2187 ON	11.976	2596TCS PULSE OK
S1B		MDI 2187 OFF	12.604	2596TCS PULSE OK
S1B		MDI 2187 ON	12.976	2596TCS PULSE OK
S1B		MDI 2187 OFF	13.604	2596TCS PULSE OK
	IU	MDI 0635 ON	13.676	3335EDSRG ZERO TORQUE COMM
S1B		MDI 2187 ON	13.976	2596TCS PULSE OK
S1B		MDI 2187 OFF	14.604	2596TCS PULSE OK
S1B		MDI 2187 ON	14.976	2596TCS PULSE OK
S1B		MDI 2187 OFF	15.604	2596TCS PULSE OK
S1B		MDI 2187 ON	15.976	2596TCS PULSE OK
	IU	MDI 0626 OFF	16.412	3326RATE EXCES ROLL SPARE
	IU	MDI 0624 OFF	16.424	3324RATE EXCES ROLL COMMAND
S1B		DDA 2009 OFF	16.452	4068VR0031-602
	IU	LDO 0626 OFF	16.460	4393RATE EXCES ROLL SPARE
S1B		DDA 2071 OFF	16.468	4105VR0024-602
S1B		DDA 2077 OFF	16.468	4111VR0018-602
	IU	LDO 0624 OFF	16.496	4391RATE EXCES ROLL COMMAND
S1B		MDI 2187 OFF	16.604	2596TCS PULSE OK
S1B		MDI 2187 ON	16.976	2596TCS PULSE OK
	IU	MDI 0625 OFF	16.984	3325RATE EXCES ROLL REF
S1B		DDA 2074 OFF	17.052	4108VR0021-602
	IU	LDO 0625 OFF	17.052	4392RATE EXCES ROLL REF

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S17	MDI 2187 OFF	17.604	2596TCS	PULSE OK
S17	MDI 2187 ON	17.976	2596TCS	PULSE OK
S17	MDI 2187 OFF	18.604	2596TCS	PULSE OK
S17	MDI 2187 ON	18.976	2596TCS	PULSE OK
S17	DDA 2125 OFF	19.460	4119VR0029-602	
S17	MDI 2187 OFF	19.604	2596TCS	PULSE OK
S18	DDA 2125 ON	19.792	4119VR0029-602	
S18	DDA 0023 OFF	19.900	5201VK0353-340	
S18	MDI 2187 ON	19.976	2596TCS	PULSE OK
S18	DDA 0023 ON	19.980	5201VK0353-340	
S18	DDA 2125 OFF	20.208	4119VR0029-602	
S18	MDI 2187 OFF	20.604	2596TCS	PULSE OK
S18	MDI 2187 ON	20.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	21.604	2596TCS	PULSE OK
S18	MDI 2187 ON	21.976	2596TCS	PULSE OK
S18	DDA 0023 OFF	22.484	5201VK0353-340	
S18	MDI 2187 OFF	22.604	2596TCS	PULSE OK
S18	MDI 2187 ON	22.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	23.604	2596TCS	PULSE OK
S18	MDI 2187 ON	23.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	24.604	2596TCS	PULSE OK
S18	MDI 2187 ON	24.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	25.604	2596TCS	PULSE OK
S18	MDI 2187 ON	25.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	26.604	2596TCS	PULSE OK
S18	MDI 2187 ON	26.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	27.604	2596TCS	PULSE OK
S18	MDI 2187 ON	27.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	28.604	2596TCS	PULSE OK
S18	MDI 2187 ON	28.976	2596TCS	PULSE OK
S18	DDA 0023 ON	29.064	5201VK0353-340	
S18	MDI 2187 OFF	29.604	2596TCS	PULSE OK
S18	MDI 2187 ON	29.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	30.604	2596TCS	PULSE OK
S18	MDI 2187 ON	30.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	31.604	2596TCS	PULSE OK
S18	MDI 2187 ON	31.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	32.604	2596TCS	PULSE OK
S18	MDI 2187 ON	32.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	33.604	2596TCS	PULSE OK
S18	MDI 2187 ON	33.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	34.604	2596TCS	PULSE OK
S18	MDI 2187 ON	34.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	35.604	2596TCS	PULSE OK
S18	MDI 2187 ON	35.976	2596TCS	PULSE OK
S18	MDI 2187 OFF	36.604	2596TCS	PULSE OK

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IU	MDI 2236 ON	36.708	2605RAMP NO 1 ZERO
IU	MDI 2237 ON	36.708	2606RAMP NO 2 ZERO
IU	MDI 2238 ON	36.708	2607RAMP NO 3 ZERO
IU	MDI 0635 OFF	36.712	3335EDSRG ZERO TORQUE COMM
IU	MDI 1904 OFF	36.716	1601EDS RG ROLL AXIS SEL ON
IU	MDI 0632 OFF	36.716	3332EDSRG ROLL AXIS SELECT
IU	LDO 0632 OFF	36.812	4399EDSRG ROLL AXIS SELECT
S1B	DDA 2125 ON	36.956	4119VR0029-602
S1B	MDI 2187 ON	36.976	2596TCS PULSE OK
S1B	MDI 2187 OFF	37.604	2596TCS PULSE OK
S1B	MDI 2187 ON	37.976	2596TCS PULSE OK
S1B	MDI 2187 OFF	38.604	2596TCS PULSE OK
S1B	MDI 2187 ON	38.976	2596TCS PULSE OK
S1B	MDI 2187 OFF	39.604	2596TCS PULSE OK
S1B	MDI 2187 ON	39.976	2596TCS PULSE OK
S1B	MDI 2187 OFF	40.604	2596TCS PULSE OK
S1B	MDI 2187 ON	40.976	2596TCS PULSE OK
S1B	DDA 0023 OFF	41.148	5201VK0353-340
S1B	MDI 2187 OFF	41.604	2596TCS PULSE OK
S1B	MDI 2187 ON	41.976	2596TCS PULSE OK
S1B	MDI 2187 OFF	42.604	2596TCS PULSE OK
S1B	MDI 2187 ON	42.976	2596TCS PULSE OK
S1B	MDI 2187 OFF	43.604	2596TCS PULSE OK
S1B	MDI 2187 ON	43.976	2596TCS PULSE OK
S1B	MDI 2187 OFF	44.604	2596TCS PULSE OK
S1B	MDI 2187 ON	44.976	2596TCS PULSE OK
S1B	MDI 2187 OFF	45.604	2596TCS PULSE OK
S1B	MDI 2187 ON	45.976	2596TCS PULSE OK
S1B	MDI 2187 OFF	46.604	2596TCS PULSE OK
S1B	MDI 2187 ON	46.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	47.604	2596TCS PULSE OK
S1B	MDI 2187 ON	47.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	48.604	2596TCS PULSE OK
S1B	MDI 2187 ON	48.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	49.604	2596TCS PULSE OK
S1B	MDI 2187 ON	49.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	50.604	2596TCS PULSE OK
S1B	MDI 2187 ON	50.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	51.604	2596TCS PULSE OK
S1B	MDI 2187 ON	51.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	52.604	2596TCS PULSE OK
S1B	MDI 2187 ON	52.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	53.604	2596TCS PULSE OK
S1B	MDI 2187 ON	53.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	54.604	2596TCS PULSE OK
S1B	MDI 2187 ON	54.972	2596TCS PULSE OK

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S1B	MDI 2187 OFF	55.604	2596TCS	PULSE	OK
S1B	MDI 2187 ON	55.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	56.604	2596TCS	PULSE	OK
S1B	MDI 2187 ON	56.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	57.604	2596TCS	PULSE	OK
S1B	MDI 2187 ON	57.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	58.600	2596TCS	PULSE	OK
S1B	DDA 0023 ON	58.724	5201VK0353-340		
S1B	MDI 2187 ON	58.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	59.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	59.972	2596TCS	PULSE	OK
S1B S4B IU	CDC 00 13				
S1B	DDA 0023 OFF	00.312	5201VK0353-340		
S1B	MDI 2187 OFF	00.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	00.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	01.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	01.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	02.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	02.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	03.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	03.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	04.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	04.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	05.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	05.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	06.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	06.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	07.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	07.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	08.600	2596TCS	PULSE	OK
S1B	DDA 0023 ON	08.640	5201VK0353-340		
S1B	MDI 2187 ON	08.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	09.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	09.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	10.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	10.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	11.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	11.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	12.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	12.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	13.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	13.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	14.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	14.972	2596TCS	PULSE	OK
S1B	MDI 2187 OFF	15.600	2596TCS	PULSE	OK
S1B	MDI 2187 ON	15.972	2596TCS	PULSE	OK

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TEST SIN FLT NAL CAT 20 73 11

S1B	MDI 2187 OFF	16.600	2596TCS PULSE OK
S1B	MDI 2187 ON	16.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	17.600	2596TCS PULSE OK
S1B	MDI 2187 ON	17.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	18.600	2596TCS PULSE OK
S1B	DDA 0023 OFF	18.892	5201VK0353-340
S1B	MDI 2187 ON	18.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	19.600	2596TCS PULSE OK
S1B	MDI 2187 0	19.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	20.600	2596TCS PULSE OK
S1B	MDI 2187 ON	20.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	21.600	2596TCS PULSE OK
S1B	MDI 2187 ON	21.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	22.600	2596TCS PULSE OK
S1B	MDI 2187 ON	22.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	23.600	2596TCS PULSE OK
S1B	MDI 2187 ON	23.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	24.600	2596TCS PULSE OK
S1B	MDI 2187 ON	24.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	25.600	2596TCS PULSE OK
S1B	MDI 2187 ON	25.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	26.600	2596TCS PULSE OK
S1B	MDI 2187 ON	26.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	27.600	2596TCS PULSE OK
S1B	MDI 2187 ON	27.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	28.600	2596TCS PULSE OK
S1B	MDI 2187 ON	28.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	29.600	2596TCS PULSE OK
S1B	MDI 2187 ON	29.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	30.600	2596TCS PULSE OK
S1B	MDI 2187 ON	30.972	2596TCS PULSE OK
S1B	MDI 2187 OFF	31.600	2596TCS PULSE OK
S1B S4B IU	CDC 00 14		
S1B	DDA 0023 OFF	29.216	5201VK0353-340
S1B	DDA 0023 ON	51.708	5201VK0353-340
S1B S4B IU	CDC 00 15		
S1B	DDA 0023 OFF	18.956	5201VK0353-340
S1B	DDA 0023 ON	39.200	5201VK0353-340
S1B S4B IU	CDC 00 16		
S1B	DDA 0023 OFF	03.452	5201VK0353-340
S1B	DDA 0023 ON	58.272	5201VK0353-340
S1B S4B IU	CDC 00 17		
S1B	DDA 0023 OFF	08.776	5201VK0353-340
S1B S4B IU	CDC 00 18		
S1B S4B IU	CDC 00 19		

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S18		DDA 0023 ON 00.752 5201VK0353-340
S18 S4B	IU	CDC 00 20
	IU	MDI 0696 OFF 17.012 3395Z-SERVO ON IND
	IU	MDI 0697 OFF 17.012 3396X-SERVO ON IND
	IU	MDI 0698 OFF 17.012 3397Y-SERVO ON IND
S18		DDA 2159 ON 17.016 4136VJ0072-603
S18		LDI 0967 ON 17.020 0422COMPT RESET PULSE NO. 2
S18		DDA 2160 ON 17.024 4137VJ0071-603
S18		LDI 0966 ON 17.028 0421COMPT RESET PULSE NO. 1
	IU	LDO 0697 OFF 17.056 4823X-SERVO ON IND
	IU	LDO 0696 OFF 17.060 4822Z-SERVO ON IND
	IU	LDO 0698 OFF 17.060 4824Y-SERVO ON IND
S18		LDI 0966 OFF 17.080 0421COMPT RESET PULSE NO. 1
S18		LDI 0967 OFF 17.080 0422COMPT RESET PULSE NO. 2
S18		DDA 2159 OFF 17.080 4136VJ0072-603
S18		DDA 2160 OFF 17.080 4137VJ0071-603
S18	IU	MDI 2305 ON 41.356 3765S-IVB STAGE SEL
S4B		MDI 1844 OFF 41.360 3928SW SEL ZERO
	IU	LDI 1099 ON 41.364 0514S-IVB STAGE SELECTOR
	IU	MDI 0817 OFF 41.364 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 41.364 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF 41.364 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF 41.364 3523REG CONT BIT 8 VERIFY IN
S18		DDA 2088 ON 41.364 5164VXK0005-603
	IU	LDI 1091 ON 41.372 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 41.372 0507BIT NO 3 VERIFY
	IU	LDI 1094 ON 41.372 0509BIT NO 5 VERIFY
	IU	LDI 1097 ON 41.372 0512BIT NO 8 VERIFY
S18		DDA 2093 ON 41.372 5166VXK0008-603
S18		DDA 2094 ON 41.372 5167VXK0008-603
S18		DDA 2098 ON 41.372 5171VXK0008-603
S18		DDA 2099 ON 41.372 5172VXK0008-603
S4B		LDO 1844 OFF 41.412 4535SW SEL ZERO
S18	IU	MDI 2308 ON 41.508 3768READ COMMAND
S18 S4B	IU	-2- 151 READ 41.508
S18		DDA 2085 ON 41.512 5161VXK0006-603
	IU	LDI 0983 ON 41.516 0463SW SEL READ
	IU	LDI 1102 ON 41.516 0516SW SEL READ
S4B		MDI 2647 OFF 41.516 2702LOX PREVALVE CLOSED
S4B		MDI 2648 OFF 41.516 2703LH PREVALVE CLOSED
S18		DDA 2029 ON 41.516 4080VK0128-404
S18	IU	MDI 2305 OFF 41.536 3765S-IVB STAGE SEL
S18	IU	MDI 2308 OFF 41.536 3768READ COMMAND
S4B		MDI 1844 ON 41.544 3928SW SEL ZERO
	IU	LDI 0983 OFF 41.548 0463SW SEL READ
	IU	LDI 1099 OFF 41.548 0514S-IVB STAGE SELECTOR

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	IU	LDI 1102 OFF	41.548	0516SW SEL READ
	IU	MDI 0817 ON	41.548	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	41.548	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON	41.548	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 0	41.548	3523REG CONT BIT 8 VERIFY IN
318		DDA 2085 OFF	41.548	5161VXK0006-603
318		DDA 2088 OFF	41.548	5164VXK0005-603
	IU	LDI 1091 OFF	41.556	0506BIT NO 2 VERIFY
318		DDA 2029 OFF	41.556	4080VK0128-404
318		DDA 2098 OFF	41.556	5171VXK0008-603
318		DDA 2099 OFF	41.556	5172VXK0008-603
	IU	LDI 1092 OFF	41.560	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	41.560	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	41.560	0512BIT NO 8 VERIFY
318	IU	MDI 2305 ON	41.560	3765S-IVR STAGE SEL
318		DDA 2093 OFF	41.560	5166VXK0008-603
318		DDA 2096 OFF	41.560	5169VXK0008-603
	IU	LDI 1099 ON	41.564	0514S-IVR STAGE SELECTOR
	IU	MDI 0817 OFF	41.564	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	41.564	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	41.564	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF	41.564	3523REG CONT BIT 8 VERIFY IN
348		MDI 1844 OFF	41.564	3928SW SEL ZERO
318		DDA 2088 ON	41.564	5164VXK0005-603
	IU	MDI 0818 ON	41.568	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	41.568	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	41.568	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	41.568	3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1091 ON	41.572	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	41.572	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	41.572	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	41.572	0512BIT NO 8 VERIFY
318		DDA 2093 ON	41.572	5166VXK0008-603
318		DDA 2094 ON	41.572	5167VXK0008-603
318		DDA 2099 ON	41.572	5172VXK0008-603
348		LOC 1844 ON	41.612	4535SW SEL ZERO
348		LOC 1844 OFF	41.660	4535SW SEL ZERO
318	IU	MDI 2308 ON	41.720	3768READ COMMAND
318	IU	-2- 385 READ	41.720	
348		MDI 2645 OFF	41.724	2700LOX CLDN VALVE CLOSED
348		MDI 2646 OFF	41.724	2701LH CLDN VALVE CLOSED
348		MDI 1706 ON	41.728	3084LOX CLDN VALVE OPEN
348		MDI 1707 ON	41.728	3085LH CLDN VALVE OPEN
348		MDI 1708 ON	41.728	3086LOX CLDN PUMP RDY TO ST
348		MDI 1709 ON	41.728	3087LH CLDN PUMP READY TO ST
318		DDA 2085 ON	41.728	5161VXK0006-603

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	IU	LDI 0983 ON 41.732 0463SW SEL READ
	IU	LDI 1102 ON 41.732 0516SW SEL READ
S1B		DDA 2029 ON 41.732 4080VK0128-404
S1B	IU	MDI 2305 OFF 41.756 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 41.756 3768READ COMMAND
S4B		MDI 1844 ON 41.764 3928SW SEL ZERO
S1B		DDA 2085 OFF 41.764 5161VXK00006-603
S1B		DDA 2088 OFF 41.764 5164VXK00005-603
	IU	LDI 0983 OFF 41.768 0463SW SEL READ
	IU	LDI 1099 OFF 41.768 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 41.768 0516SW SEL READ
	IU	MDI 0817 ON 41.768 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 41.768 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON 41.768 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 41.768 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF 41.772 0506BIT NO 2 VERIFY
S1B		DDA 2029 OFF 41.772 4080VK0128-404
S1B		DDA 2099 OFF 41.772 5172VXK00008-603
	IU	LDI 1093 OFF 41.776 0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF 41.776 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 41.776 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 41.776 5166VXK00008-603
S1B		DDA 2094 OFF 41.776 5167VXK00008-603
S1B	IU	MDI 2305 ON 41.780 3765S-IVB STAGE SEL
S4B		LDO 1709 ON 41.780 4770LH CLDN PUMP READY TO ST
	IU	MDI 0817 OFF 41.784 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 41.784 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF 41.784 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 41.784 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 41.784 3928SW SEL ZERO
S4B		LDO 1706 ON 41.784 4767LOX CLDN VALVE OPEN
S4B		LDO 1707 ON 41.784 4768LH CLDN VALVE OPEN
	IU	LDI 1090 ON 41.788 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 41.788 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 41.788 0508BIT NO 4 VERIFY
	IU	LDI 1097 ON 41.788 0512BIT NO 8 VERIFY
	IU	LDI 1099 ON 41.788 0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF 41.788 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0821 OFF 41.788 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 41.788 3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2088 ON 41.788 5164VXK00005-603
S1B		DDA 2093 ON 41.788 5166VXK00008-603
S1B		DDA 2095 ON 41.788 5168VXK00008-603
S1B		DDA 2099 ON 41.788 5172VXK00008-603
S1B		DDA 2100 ON 41.788 5173VXK00008-603
	IU	LDI 1090 ON 41.788 0505BIT NO 1 VERIFY

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S4B		LDO 1708 ON	41.792	4769LOX CLDN PUMP RDY TO ST
S1B	IU	MDI 2305 OFF	41.800	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON	41.800	3767RESET COMMAND
S1B S4B	IU	-2- 124 RESET	41.800	
	IU	LDI 1103 ON	41.804	0517RESET COMMAND
S4B		MDI 1844 ON	41.804	3928SW SEL ZERO
S1B		DDA 2084 ON	41.804	5160VXK0007-603
	IU	LDI 1099 OFF	41.808	0514S-IVR STAGE SELECTOR
	IU	MDI 0816 ON	41.808	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 0	41.808	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	41.808	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	41.808	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	41.808	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF	41.808	5164VXK0005-603
	IU	LDI 1091 OFF	41.816	0506BIT NO 2 VERIFY
S1B		DDA 2093 OFF	41.816	5166VXK0008-603
S1B		DDA 2099 OFF	41.816	5172VXK0008-603
S1B		DDA 2100 OFF	41.816	5173VXK0008-603
	IU	LDI 1090 OFF	41.820	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	41.820	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	41.820	0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF	41.820	0512BIT NO 8 VERIFY
S1B		DDA 2095 OFF	41.820	5168VXK0008-603
S1B	IU	MDI 2305 ON	41.832	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 OFF	41.832	3767RESET COMMAND
	IU	LDI 1099 ON	41.840	0514S-IVR STAGE SELECTOR
S4B		MDI 1844 OFF	41.840	3928SW SEL ZERO
S4B		LDO 1844 ON	41.840	4535SW SEL ZERO
S1B		DDA 2084 OFF	41.840	5160VXK0007-603
S1B		DDA 2088 ON	41.840	5164VXK0005-603
	IU	LDI 1103 OFF	41.844	0517RESET COMMAND
	IU	MDI 0816 OFF	41.844	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	41.844	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	41.844	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	41.844	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	41.844	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	41.844	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	41.844	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON	41.848	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	41.848	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	41.848	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	41.848	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	41.848	0511BIT NO 7 VERIFY
	IU	MDI 0816 ON	41.848	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 ON	41.848	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	41.848	3523REG CONT BIT 8 VERIFY IN

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S1B		DDA 2094 ON	41.848	5167VXK0008-603
S1B		DDA 2096 ON	41.848	5169VXK0008-603
S1B		DDA 2098 ON	41.848	5171VXK0008-603
S1B		DDA 2099 ON	41.848	5172VXK0008-603
S1B		DDA 2100 ON	41.848	5173VXK0008-603
	IU	LDI 1090 OFF	41.860	0505BIT NO 1 VERIFY
S1B		DDA 2100 OFF	41.860	5173VXK0008-603
	S4B	LDO 1844 OFF	41.880	4535SW SEL ZERO
	S4B	LDO 1844 ON	41.884	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	41.908	3768READ COMMAND
S1B	S4B IU	-2- 251 READ	41.908	
S1B		DDA 2083 ON	41.912	5161VXK0006-603
	IU	LDI 0983 ON	41.916	0463SW SEL READ
	IU	LDI 1102 ON	41.916	0516SW SEL READ
S1B		DDA 2029 ON	41.916	4080VK0128-404
	S4B	MDI 1931 ON	41.924	3941LH LATCH RLF VLV OPEN
S1B	IU	MDI 2305 OFF	41.940	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	41.940	3768READ COMMAND
	S4B	LDO 1844 OFF	41.944	4535SW SEL ZERO
	IU	LDI 0983 OFF	41.948	0463SW SEL READ
	IU	LDI 1099 OFF	41.948	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	41.948	0516SW SEL READ
S1B		DDA 2085 OFF	41.948	5161VXK0006-603
S1B		DDA 2088 OFF	41.948	5164VXK0005-603
	IU	MDI 0817 ON	41.952	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	41.952	3518REG CONT BIT 3 VERIFY IN
	S4B	MDI 1844 ON	41.952	3928SW SEL ZERO
	IU	LDI 1091 OFF	41.956	0507BIT NO 3 VERIFY
	IU	MDI 0820 ON	41.956	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	41.956	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2098 OFF	41.956	5171VXK0008-603
S1B		DDA 2099 OFF	41.956	5172VXK0008-603
	IU	LDI 1092 OFF	41.960	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	41.960	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	41.960	0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF	41.960	5167VXK0008-603
S1B		DDA 2096 OFF	41.960	5169VXK0008-603
S1B		DDA 2029 OFF	41.964	4080VK0128-404
	S4B	LDO 1931 ON	41.976	4549LH LATCH RLF VLV OPEN
	S4B	LDO 1844 ON	42.012	4535SW SEL ZERO
S1B	IU	MDI 2305 ON	42.760	3765S-IVB STAGE SEL
	IU	LDI 1099 ON	42.764	0514S-IVB STAGE SELECTOR
	IU	MDI 0818 OFF	42.764	3518REG CONT BIT 3 VERIFY IN
	S4B	MDI 1844 OFF	42.764	3928SW SEL ZERO
S1B		DDA 2088 ON	42.764	5164VXK0005-603
	IU	MDI 0816 OFF	42.768	3516REG CONT BIT 1 VERIFY IN

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	IU	MDI 0817 OFF	42.768	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF	42.768	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	42.768	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON	42.772	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	42.772	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	42.772	0507BIT NO 3 VERIFY
	IU	LDI 1095 ON	42.772	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	42.772	0512BIT NO 8 VERIFY
S1B		DDA 2093 0	42.772	5166VXK0008-603
S1B		DDA 2095 ON	42.772	5168VXK0008-603
S1B		DDA 2098 ON	42.772	5171VXK0008-603
S1B		DDA 2099 ON	42.772	5172VXK0008-603
S1B		DDA 2100 ON	42.772	5173VXK0008-603
S1B	IU	MDI 2305 OFF	42.780	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	42.780	3767RESET COMMAND
S1B S4B	IU	-2- 130 RESET	42.780	
S4B		MDI 1844 ON	42.784	3928SW SEL ZERO
	IU	LDI 1103 ON	42.788	0517RESET COMMAND
	IU	MDI 0816 ON	42.788	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	42.788	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	42.788	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0823 ON	42.788	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	42.788	5160VXK0007-603
	IU	LDI 1099 OFF	42.792	0514S-IVB STAGE SELECTOR
	IU	MDI 0821 ON	42.792	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2088 OFF	42.792	5164VXK0005-603
S1B	IU	MDI 2305 ON	42.796	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	42.796	3767RESET COMMAND
S1B		DDA 2099 OFF	42.796	5172VXK0008-603
	IU	LDI 1090 OFF	42.800	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	42.800	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	42.800	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	42.800	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	42.800	5166VXK0008-603
S1B		DDA 2098 OFF	42.800	5171VXK0008-603
S1B		DDA 2100 OFF	42.800	5173VXK0008-603
	IU	LDI 1095 OFF	42.804	0510BIT NO 6 VERIFY
	IU	LDI 1099 ON	42.804	0514S-IVB STAGE SELECTOR
S1B		DDA 2088 ON	42.804	5164VXK0005-603
S1B		DDA 2095 OFF	42.804	5168VXK0008-603
	IU	LDI 1103 OFF	42.808	0517RESET COMMAND
	IU	MDI 0816 OFF	42.808	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	42.808	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	42.808	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF	42.808	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	42.808	3523REG CONT BIT 8 VERIFY IN

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S4B	MDI 1844	OFF	42.808	3928SW SEL ZERO
S1B	DDA 2084	OFF	42.808	5160VXK0007-603
IU	MDI 0816	ON	42.812	3516REG CONT BIT 1 VERIFY IN
IU	MDI 0818	ON	42.812	3518REG CONT BIT 3 VERIFY IN
IU	MDI 0819	OFF	42.812	3519REG CONT BIT 4 VERIFY IN
IU	MDI 0820	OFF	42.812	3520REG CONT BIT 5 VERIFY IN
IU	MDI 0821	ON	42.812	3521REG CONT BIT 6 VERIFY IN
IU	MDI 0822	OFF	42.812	3522REG CONT BIT 7 VERIFY IN
IU	MDI 0823	0	42.812	3523REG CONT BIT 8 VERIFY IN
S1B	DDA 2094	ON	42.812	5167VXK0008-603
S1B	DDA 2096	ON	42.812	5169VXK0008-603
S1B	DDA 2099	ON	42.812	5172VXK0008-603
IU	LDI 1091	ON	42.816	0506BIT NO 2 VERIFY
IU	LDI 1093	ON	42.816	0508BIT NO 4 VERIFY
IU	LDI 1094	ON	42.816	0509BIT NO 5 VERIFY
IU	LDI 1096	ON	42.816	0511BIT NO 7 VERIFY
S4B	LDO 1844	OFF	42.824	4535SW SEL ZERO
S4B	LDO 1844	ON	42.856	4535SW SEL ZERO
S4B	LDO 1844	OFF	42.896	4535SW SEL ZERO
S1B	MDI 2308	ON	42.908	3768READ COMMAND
S1B S4B	-2- 245	READ	42.908	
S1B	DDA 2085	ON	42.912	5161VXK0006-603
IU	LDI 0983	ON	42.916	0463SW SEL READ
IU	LDI 1102	ON	42.916	0516SW SEL READ
S4B	MDI 1931	OFF	42.916	3941LH LATCH RLF VLV OPEN
S1B	DDA 2029	ON	42.916	4080VK0128-404
S1B	MDI 2305	OFF	42.936	3765S-IVB STAGE SEL
S1B	MDI 2308	OFF	42.936	3768READ COMMAND
S4B	MDI 1844	ON	42.944	3928SW SEL ZERO
IU	LDI 0983	OFF	42.948	0463SW SEL READ
IU	LDI 1099	OFF	42.948	0514S-IVB STAGE SELECTOR
IU	LDI 1102	OFF	42.948	0516SW SEL READ
IU	MDI 0817	ON	42.948	3517REG CONT BIT 2 VERIFY IN
IU	MDI 0819	ON	42.948	3519REG CONT BIT 4 VERIFY IN
IU	MDI 0820	ON	42.948	3520REG CONT BIT 5 VERIFY IN
IU	MDI 0822	ON	42.948	3522REG CONT BIT 7 VERIFY IN
S1B	DDA 2085	OFF	42.948	5161VXK0006-603
S1B	DDA 2086	OFF	42.948	5164VXK0005-603
IU	LDI 1091	OFF	42.956	0506BIT NO 2 VERIFY
S1B	DDA 2029	OFF	42.956	4080VK0128-404
S1B	DDA 2099	OFF	42.956	5172VXK0008-603
IU	LDI 1093	OFF	42.960	0508BIT NO 4 VERIFY
IU	LDI 1094	OFF	42.960	0509BIT NO 5 VERIFY
IU	LDI 1096	OFF	42.960	0511BIT NO 7 VERIFY
S4B	LDO 1931	OFF	42.960	4549LH LATCH RLF VLV OPEN
S1B	DDA 2094	OFF	42.960	5167VXK0008-603

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S1B		DDA 2096 OFF 42.960 5169VXK0008-603
S4B		LDO 1844 ON 43.000 4535SW SEL ZERO
S4B		MDI 1710 ON 43.276 3088LOX PREVALVE OPEN
S4B		MDI 1711 ON 43.276 3089LH PREVALVE OPEN
S4B		LDO 1710 ON 43.328 4771LOX PREVALVE OPEN
S4B		LDO 1711 ON 43.336 4772LH PREVALVE OPEN
S4B		MDI 1930 ON 43.896 3940LH LATCH RLF VLV CLOSE
S4B		LDO 1930 ON 43.940 4548LH LATCH RLF VLV CLOSE
S1B	IU	MDI 2305 ON 45.756 3765S-IVB STAGE SEL
S4B		MDI 1844 OFF 45.760 3928SW SEL ZERO
	IU	LDI 1099 ON 45.764 0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF 45.764 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 45.764 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 45.764 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 45.764 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF 45.764 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON 45.764 5164VXK0005-603
	IU	LDI 1090 ON 45.772 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 45.772 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 45.772 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 45.772 0509BIT NO 5 VERIFY
	IU	LDI 1097 ON 45.772 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 45.772 5166VXK0008-603
S1B		DDA 2096 ON 45.772 5169VXK0008-603
S1B		DDA 2099 ON 45.772 5172VXK0008-603
S1B		DDA 2100 ON 45.772 5173VXK0008-603
S1B	IU	MDI 2305 OFF 45.788 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON 45.788 3767RESET COMMAND
S1B	S4B IU	-2- 144 RESEL 45.788
	S4B	MDI 1844 ON 45.792 3928SW SEL ZERO
	IU	LDI 1103 ON 45.796 0517RESET COMMAND
	IU	MDI 0816 ON 45.796 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 45.796 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 45.796 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 45.796 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON 45.796 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON 45.796 5160VXK0007-603
S1B		DDA 2088 OFF 45.796 5164VXK0005-603
S1B		DDA 2099 OFF 45.796 5172VXK0008-603
	IU	LDI 1090 OFF 45.800 0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF 45.800 0506BIT NO 2 VERIFY
	IU	LDI 1094 OFF 45.800 0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF 45.800 0512BIT NO 8 VERIFY
	IU	LDI 1099 OFF 45.800 0514S-IVB STAGE SELECTOR
S1B		DDA 2093 OFF 45.800 5166VXK0008-603
S1B		DDA 2096 OFF 45.800 5169VXK0008-603

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S1B		DDA 2100 OFF 45.800 5173VXK0008-603
	IU	LDI 1093 OFF 45.804 0508BIT NO 4 VERIFY
S1B	IU	MDI 2305 ON 45.804 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF 45.804 3767RESET COMMAND
	IU	LDI 1099 ON 45.812 0514S-IVB STAGE SELECTOR
S4B		LDO 1844 OFF 45.812 4535SW SEL ZERO
S1B		DDA 2088 ON 45.812 5164VXK0005-603
	IU	LDI 1103 OFF 45.816 0517RESET COMMAND
	IU	MDI 0816 OFF 45.816 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 45.816 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 45.816 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 45.816 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF 45.816 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 45.816 3928SW SEL ZERO
S1B		DDA 2084 OFF 45.816 5160VXK0007-603
	IU	LDI 1096 ON 45.820 0511BIT NO 7 VERIFY
	IU	MDI 0816 ON 45.820 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF 45.820 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 45.820 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 45.820 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 45.820 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 45.820 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 45.820 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2094 ON 45.820 5167VXK0008-603
S1B		DDA 2095 ON 45.820 5168VXK0008-603
S1B		DDA 2098 ON 45.820 5171VXK0008-603
S1B		DDA 2099 ON 45.820 5172VXK0008-603
	IU	LDI 1091 ON 45.824 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 45.824 0507BIT NO 3 VERIFY
	IU	LDI 1095 ON 45.824 0510BIT NO 6 VERIFY
S4B		LDO 1844 ON 45.848 4535SW SEL ZERO
S4B		LDO 1844 OFF 45.868 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 45.908 3768READ COMMAND
S1B S4B	IU	-2- 231 READ 45.908
	IU	LDI 0983 ON 45.912 0463SW SEL READ
	IU	LDI 1102 ON 45.912 0516SW SEL READ
S4B		MDI 1929 OFF 45.912 3939LH VLVS BC, L/R LTCH RST
S1B		DDA 2029 ON 45.916 4080VK0128-404
S1B	IU	MDI 2305 OFF 45.936 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 45.936 3768READ COMMAND
S4B		MDI 1844 ON 45.944 3928SW SEL ZERO
	IU	LDI 0983 OFF 45.948 0463SW SEL READ
	IU	LDI 1099 OFF 45.948 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 45.948 0516SW SEL READ
	IU	MDI 0817 ON 45.948 3517REG CONT BIT 2 VERIFY IN

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	IU	MDI 0818 ON	45.948	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 ON	45.948	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	45.948	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2088 OFF	45.948	5164VXK0005-603
S1B		DDA 2029 OFF	45.952	4080VK0128-404
	IU	LDI 1091 OFF	45.956	0506BIT NO 2 VERIFY
S4B		LDO 1929 OFF	45.956	4547LH VLVS RC, L/R LTCH RST
S1B		DDA 2098 OFF	45.956	5171VXK0008-603
S1B		DDA 2099 OFF	45.956	5172VXK0008-603
	IU	LDI 1092 OFF	45.960	0507BIT NO 3 VERIFY
	IU	LDI 1095 OFF	45.960	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	45.960	0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF	45.960	5167VXK0008-603
S1B		DDA 2095 OFF	45.960	5168VXK0008-603
S4B		LDO 1844 ON	45.996	4535SW SEL ZERO
S1B	IU	MDI 2305 ON	47.756	3765S-IVB STAGE SEL
S4B		MDI 1844 OFF	47.760	3928SW SEL ZERO
	IU	LDI 1099 ON	47.764	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	47.764	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	47.764	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	47.764	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 OFF	47.764	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	47.764	5164VXK0005-603
	IU	LDI 1090 ON	47.772	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	47.772	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	47.772	0508BIT NO 4 VERIFY
	IU	LDI 1097 ON	47.772	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	47.772	5166VXK0008-603
S1B		DDA 2099 ON	47.772	5172VXK0008-603
S1B		DDA 2100 ON	47.772	5173VXK0008-603
S1B	IU	MDI 2305 OFF	47.788	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	47.788	3767RESET COMMAND
S1B S4B	IU	-2- 1844 RESET	47.788	
S4B		MDI 1844 ON	47.792	3928SW SEL ZERO
	IU	LDI 1103 ON	47.796	0517RESET COMMAND
	IU	MDI 0816 ON	47.796	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	47.796	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	47.796	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	47.796	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	47.796	5160VXK0007-603
S1B		DDA 2088 OFF	47.796	5164VXK0005-603
	IU	LDI 1099 OFF	47.800	0514S-IVB STAGE SELECTOR
S1B	IU	MDI 2305 ON	47.804	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	47.804	3767RESET COMMAND
S1B		DDA 2099 OFF	47.804	5172VXK0008-603

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	IU	LBI 1090 OFF	47.808	0505BIT NO 1 VERIFY
	IU	LBI 1091 OFF	47.808	0506BIT NO 2 VERIFY
	IU	LBI 1092 OFF	47.808	0512BIT NO 8 VERIFY
S18		DDA 2083 OFF	47.808	5166VXK0008-603
S18		DDA 2100 OFF	47.808	5173VXK0008-603
	IU	LBI 1093 OFF	47.812	0508BIT NO 4 VERIFY
	IU	LBI 1094 ON	47.812	0514S-IVB STAGE SELECTOR
S43		LDO 1844 OFF	47.812	4535SW SEL ZERO
S18		DDA 2084 ON	47.812	5164VXK0005-603
	IU	LBI 1103 OFF	47.816	0517RESET COMMAND
	IU	MDI 0816 OFF	47.816	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	47.816	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	47.816	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	47.816	3523REG CONT BIT 5 VERIFY IN
S48		MDI 1844 OFF	47.816	3928SW SEL ZERO
S18		DDA 2084 OFF	47.816	5164VXK0005-603
	IU	LBI 1091 ON	47.820	0506BIT NO 2 VERIFY
	IU	LBI 1092 ON	47.820	0507BIT NO 3 VERIFY
	IU	LBI 1093 ON	47.820	0511BIT NO 7 VERIFY
	IU	MDI 0816 ON	47.820	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	47.820	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0818 ON	47.820	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	47.820	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	47.820	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	47.820	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	47.820	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2094 ON	47.820	5167VXK0008-603
S18		DDA 2095 ON	47.820	5168VXK0008-603
S18		DDA 2096 ON	47.820	5169VXK0008-603
S18		DDA 2097 ON	47.820	5171VXK0008-603
S18		DDA 2099 ON	47.820	5172VXK0008-603
	IU	LBI 1094 ON	47.824	0509BIT NO 5 VERIFY
	IU	LBI 1095 ON	47.824	0510BIT NO 6 VERIFY
S43		LDO 1844 ON	47.856	4535SW SEL ZERO
S48		LDO 1844 OFF	47.896	4535SW SEL ZERO
S18	IU	MDI 2308 ON	47.908	3768READ COMMAND
S18 S48	IU	-2- 211 READ	47.908	
	IU	LBI 0983 ON	47.912	0463SW SEL READ
	IU	LBI 1102 ON	47.912	0516SW SEL READ
S43		MDI 1929 ON	47.912	3939LH VLVS RC, L/R LTCH RST
S18		DDA 2085 ON	47.912	5161VXK0005-603
S18		DDA 2029 ON	47.916	4080VK0128-404
S18	IU	MDI 2305 OFF	47.936	3765S-IVB STAGE SEL
S18	IU	MDI 2308 OFF	47.936	3768READ COMMAND
S48		MDI 1844 ON	47.944	3928SW SEL ZERO
	IU	LBI 0983 OFF	47.948	0463SW SEL READ

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	IU	LDI 1099 OFF	47.948	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	47.948	0516SW SEL READ
	IU	MDI 0817 ON	47.948	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	47.948	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON	47.948	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	47.948	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	47.948	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2085 OFF	47.948	5161VXK0008-603
S1B		DDA 2088 OFF	47.948	5164VXK0008-603
S1B		DDA 2029 OFF	47.956	4080VK0128-404
	IU	LDI 1091 OFF	47.956	0506BIT NO 2 VERIFY
S4B		LDO 1929 ON	47.956	4547LH VLVS BC, L/R LTCH RST
S1B		DDA 2098 OFF	47.956	5171VXK0008-603
S1B		DDA 2099 OFF	47.956	5172VXK0008-603
	IU	LDI 1092 OFF	47.960	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	47.960	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	47.960	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	47.960	0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF	47.960	5167VXK0008-603
S1B		DDA 2095 OFF	47.960	5168VXK0008-603
S1B		DDA 2096 OFF	47.960	5169VXK0008-603
	S4B	LDO 1844 ON	47.996	4535SW SEL ZERO
S1B	S4B	IU		CDC 00 21
S1B		DDA 0023 OFF	25.152	5201VK0353-340
S1B	S4B	IU		CDC 00 22
S1B	S4B	IU		CDC 00 23
S1B	S4B	IU		CDC 00 24
S1B	S4B	IU		CDC 00 25
S1B	S4B	IU		CDC 00 26
S1B	S4B	IU		CDC 00 27
S1B	S4B	IU		CDC 00 28
S1B	S4B	IU		CDC 00 29
S1B	S4B	IU		CDC 00 30
S1B	S4B	IU		CDC 00 31
S1B		DDA 0023 ON	40.636	5201VK0353-340
S1B	S4B	IU		CDC 00 32
S1B	S4B	IU		CDC 00 33
S1B	S4B	IU		CDC 00 34
S1B	S4B	IU		CDC 00 35
S1B	S4B	IU		CDC 00 36
S1B	S4B	IU		CDC 00 37
S1B	S4B	IU		CDC 00 38
S1B	S4B	IU		CDC 00 39
S1B		LDI 0964 ON	22.676	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON	22.676	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON	22.676	4070VJ0070-603

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S18		DDA 2020 0	22.676	4071VJ0069-603
S18		LDI 0966 0	22.716	0421COMPT RESET PULSE NO. 1
S18		LDI 0967 0	22.716	0422COMPT RESET PULSE NO. 2
S18		DDA 2159 0	22.716	4136VJ0072-603
S18		DDA 2160 0	22.716	4137VJ0071-603
S18		LDI 0965 OFF	22.728	0420ADDRESS VERI PULSE NO. 2
S18		DDA 2019 OFF	22.728	4070VJ0070-603
S18		LDI 0964 OFF	22.744	0419ADDRESS VERI PULSE NO. 1
S18		DDA 2020 OFF	22.744	4071VJ0069-603
	IU	LDO 0735 0	22.752	4860MODE CODE 3 IND
S18		DDA 2159 OFF	22.768	4136VJ0072-603
S18		LDI 0967 OFF	22.772	0422COMPT RESET PULSE NO. 2
S18		LDI 0966 OFF	22.780	0421COMPT RESET PULSE NO. 1
S18		DDA 2160 OFF	22.780	4137VJ0071-603
S18		LDI 0965 0	23.116	0420ADDRESS VERI PULSE NO. 2
S18		DDA 2019 0	23.116	4070VJ0070-603
S18		LDI 0964 0	23.124	0419ADDRESS VERI PULSE NO. 1
S18		DDA 2020 0	23.124	4071VJ0069-603
S18		DDA 2159 0	23.140	4136VJ0072-603
S18		DDA 2160 0	23.140	4137VJ0071-603
S18		LDI 0966 0	23.144	0421COMPT RESET PULSE NO. 1
S18		LDI 0967 0	23.144	0422COMPT RESET PULSE NO. 2
S18		LDI 0965 OFF	23.176	0420ADDRESS VERI PULSE NO. 2
S18		DDA 2019 OFF	23.176	4070VJ0070-603
S18		LDI 0964 OFF	23.192	0419ADDRESS VERI PULSE NO. 1
S18		DDA 2020 OFF	23.192	4071VJ0069-603
S18		DDA 2159 OFF	23.192	4136VJ0072-603
S18		LDI 0966 OFF	23.196	0421COMPT RESET PULSE NO. 1
S18		LDI 0967 OFF	23.196	0422COMPT RESET PULSE NO. 2
S18		DDA 2160 OFF	23.196	4137VJ0071-603
	IU	LDO 0735 OFF	23.308	4860MODE CODE 3 IND
S18		LDI 0965 0	23.416	0420ADDRESS VERI PULSE NO. 2
S18		DDA 2019 0	23.416	4070VJ0070-603
S18		LDI 0964 0	23.424	0419ADDRESS VERI PULSE NO. 1
S18		DDA 2020 0	23.424	4071VJ0069-603
S18	IU	MDI 2306 0	23.448	3766IU STAGE SEL
S18		DDA 2087 0	23.448	5163VXK0005-603
	IU	LDI 1091 0	23.452	0513IU STAGE SELECTOR
	IU	MDI 0817 OFF	23.452	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	23.452	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0782 OFF	23.456	3482SW SEL ZERO IND
	IU	MDI 0818 OFF	23.456	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0826 0	23.456	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF	23.456	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2093 0	23.456	5166VXK0008-603
S18		DDA 2094 0	23.456	5171VXK0008-603

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S1B		DDA 2099 ON	23.456	5172VXK0008-603
S1B		LDI 0967 ON	23.460	0422COMPT RESET PULSE NO. 2
	IU	LDI 1091 ON	23.460	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	23.460	0507BIT NO 3 VERIFY
	IU	LDI 1097 ON	23.460	0512BIT NO 8 VERIFY
S1B		DDA 2159 ON	23.460	4136VJ0072-603
S1B		DDA 2086 OFF	23.460	5162VXK0003-603
S1B		LDI 0966 ON	23.468	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	23.468	4137VJ0071-603
	IU	LDO 0735 ON	23.468	4860MODE CODE 3 IND
S1B		LDI 0965 OFF	23.476	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 OFF	23.476	4070VJ0070-603
S1B		LDI 0964 OFF	23.492	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	23.492	4071VJ0069-603
S1B	IU	MDI 2308 ON	23.504	3768READ COMMAND
S1B S4B	IU	-3- 171 READ	23.504	
	IU	LDI 0983 ON	23.508	0463SW SEL READ
	IU	LDI 1102 ON	23.508	0516SW SEL READ
S1B		DDA 2085 ON	23.508	5161VXK0006-603
S1B		DDA 2149 ON	23.512	4134VK0004-603
S1B		LDI 0966 OFF	23.520	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	23.520	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	23.520	4136VJ0072-603
S1B		DDA 2160 OFF	23.520	4137VJ0071-603
	IU	LDO 0735 OFF	23.524	4860MODE CODE 3 IND
S1B	IU	MDI 2306 OFF	23.532	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	23.532	3768READ COMMAND
	IU	LDI 0983 OFF	23.544	0463SW SEL READ
	IU	LDI 1098 OFF	23.544	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	23.544	0516SW SEL READ
	IU	MDI 0782 ON	23.544	3482SW SEL ZERO IND
	IU	MDI 0817 ON	23.544	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	23.544	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0823 ON	23.544	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF	23.544	5161VXK0006-603
S1B		DDA 2087 OFF	23.544	5163VXK0005-603
	IU	LDI 1091 OFF	23.552	0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF	23.552	4134VK0004-603
S1B		DDA 2086 ON	23.552	5162VXK0003-603
S1B		DDA 2093 OFF	23.552	5166VXK0008-603
S1B		DDA 2098 OFF	23.552	5171VXK0008-603
S1B		DDA 2099 OFF	23.552	5172VXK0008-603
	IU	LDI 1092 OFF	23.556	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	23.556	0512BIT NO 8 VERIFY
S1B		DDA 2019 ON	25.148	4070VJ0070-603
S1B		LDI 0965 ON	25.152	0420ADDRESS VERI PULSE NO. 2

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S1B		DDA 2020 ON	25.156	4071VJ0069-603
S1B		LDI 0964 ON	25.160	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0966 ON	25.176	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	25.176	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	25.176	4136VJ0072-603
S1B		DDA 2160 ON	25.176	4137VJ0071-603
	IU	LDO 0735 ON	25.200	4860MODE CODE 3 IND
S1B		LDI 0965 OFF	25.212	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 OFF	25.212	4070VJ0070-603
S1B		LDI 0964 OFF	25.224	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	25.224	4071VJ0069-603
S1B		LDI 0967 OFF	25.228	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	25.228	4136VJ0072-603
S1B		LDI 0966 OFF	25.236	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	25.236	4137VJ0071-603
	IU	LDO 0735 OFF	25.316	4860MODE CODE 3 IND
S1B		LDI 0964 ON	25.508	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON	25.508	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON	25.508	4070VJ0070-603
S1B		DDA 2020 ON	25.508	4071VJ0069-603
S1B		LDI 0967 ON	25.524	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	25.524	4136VJ0072-603
S1B		DDA 2160 ON	25.532	4137VJ0071-603
S1B		LDI 0966 ON	25.536	0421COMPT RESET PULSE NO. 1
S1B		LDI 0965 OFF	25.560	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 OFF	25.560	4070VJ0070-603
	IU	LDO 0735 ON	25.568	4860MODE CODE 3 IND
S1B		LDI 0964 OFF	25.576	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	25.576	4071VJ0069-603
S1B		DDA 2159 OFF	25.584	4136VJ0072-603
S1B		LDI 0966 OFF	25.588	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	25.588	0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 OFF	25.588	4137VJ0071-603
	IU	LDO 0735 OFF	25.608	4860MODE CODE 3 IND
S1B		DDA 2020 ON	25.964	4071VJ0069-603
S1B		LDI 0964 ON	25.968	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON	25.968	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON	25.968	4070VJ0070-603
S1B	IU	MDI 2306 ON	25.992	3766IU STAGE SEL
	IU	LDI 1091 ON	26.000	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	26.000	0507BIT NO 3 VERIFY
	IU	LDI 1097 ON	26.000	0512BIT NO 8 VERIFY
	IU	LDI 1098 ON	26.000	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	26.000	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	26.000	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	26.000	3517REG CONT BIT 2 VERIFY IN

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	IU	MDI 0819 OFF	26.000	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	26.000	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	26.000	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 ON	26.000	5163VXK0005-603
S1B		DDA 2093 ON	26.000	5166VXK0008-603
S1B		DDA 2098 ON	26.000	5171VXK0008-603
S1B		DDA 2099 ON	26.000	5172VXK0008-603
	IU	LDI 1090 ON	26.008	0505BIT NO 1 VERIFY
	IU	LDI 1093 ON	26.008	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	26.008	0511BIT NO 7 VERIFY
S1B		DDA 2086 OFF	26.008	5162VXK0003-603
S1B		DDA 2094 ON	26.008	5167VXK0008-603
S1B		DDA 2100 ON	26.008	5173VXK0008-603
	IU	LDI 1092 OFF	26.012	0507BIT NO 3 VERIFY
	IU	LDO 0735 ON	26.012	4860MODE CODE 3 IND
S1B		DDA 2098 OFF	26.012	5171VXK0008-603
S1B		LDI 0965 OFF	26.020	0420ADDRESS VERI PULSE NO. 2
S1B	IU	MDI 2306 OFF	26.020	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	26.020	3767RESET COMMAND
S1B S4B	IU	-3- 064 RESET	26.020	
S1B		DDA 2019 OFF	26.020	4070VJ0070-603
	IU	MDI 0816 ON	26.028	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	26.028	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	26.028	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	26.028	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	26.028	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1103 ON	26.032	0517RESET COMMAND
	IU	MDI 0782 ON	26.032	3482SW SEL ZERO IND
S1B		DDA 2020 OFF	26.032	4071VJ0069-603
S1B		DDA 2159 ON	26.032	4136VJ0072-603
S1B		DDA 2084 ON	26.032	5160VXK0007-603
S1B		DDA 2086 ON	26.032	5162VXK0003-603
S1B		DDA 2099 OFF	26.032	5172VXK0008-603
S1B		LDI 0964 OFF	26.036	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0967 ON	26.036	0422COMPT RESET PULSE NO. 2
	IU	LDI 1090 OFF	26.036	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	26.036	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	26.036	0512BIT NO 8 VERIFY
	IU	LDI 1098 OFF	26.036	0513IU STAGE SELECTOR
S1B		DDA 2087 OFF	26.036	5163VXK0005-603
S1B		DDA 2093 OFF	26.036	5166VXK0008-603
S1B		DDA 2094 OFF	26.036	5167VXK0008-603
S1B		DDA 2100 OFF	26.036	5173VXK0008-603
	IU	LDI 1093 OFF	26.040	0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF	26.040	0511BIT NO 7 VERIFY
S1B	IU	MDI 2306 ON	26.040	3766IU STAGE SEL

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S1B	IU	MDI 2307 OFF	26.040	3767RESET COMMAND
S1B		DDA 2160 ON	26.040	4137VJ0071-603
S1B		LDI 0966 ON	26.044	0421COMPT RESET PULSE NO. 1
	IU	LDI 1098 ON	26.048	0513IU STAGE SELECTOR
	IU	MDI 0822 OFF	26.048	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2087 ON	26.048	5163VXK0005-603
	IU	LDI 1103 OFF	26.052	0517RESET COMMAND
	IU	MDI 0782 OFF	26.052	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	26.052	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	26.052	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	26.052	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	26.052	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	26.052	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2084 OFF	26.052	5164VXK0007-603
S1B		DDA 2096 ON	26.056	5169VXK0008-603
S1B		DDA 2098 ON	26.056	5171VXK0009-603
S1B		DDA 2099 ON	26.056	5172VXK0008-603
	IU	LDI 1091 ON	26.060	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	26.060	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	26.060	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	26.060	0510BIT NO 6 VERIFY
S1B		DDA 2086 OFF	26.060	5162VXK0003-603
S1B		DDA 2095 ON	26.060	5168VXK0008-603
S1B	IU	MDI 2308 ON	26.064	3768READ COMMAND
S1B S4B	IU	-3- 311 READ	26.064	
S1B		DDA 2149 ON	26.072	4134VXK0004-603
	IU	LDI 0983 ON	26.076	0463SW SEL READ
	IU	LDI 1102 ON	26.076	0516SW SEL READ
S1B		DDA 2085 ON	26.076	5161VXK0006-603
S1B	IU	MDI 2306 OFF	26.092	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	26.092	3768READ COMMAND
S1B		DDA 2159 OFF	26.092	4136VJ0072-603
S1B		LDI 0966 OFF	26.096	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	26.096	0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 OFF	26.096	4137VJ0071-603
S1B		DDA 2085 OFF	26.100	5161VXK0006-603
S1B		DDA 2087 OFF	26.100	5163VXK0005-603
	IU	LDI 0983 OFF	26.104	0463SW SEL READ
	IU	LDI 1098 OFF	26.104	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	26.104	0516SW SEL READ
	IU	MDI 0817 ON	26.104	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	26.104	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0782 ON	26.108	3482SW SEL ZERO IND
	IU	MDI 0820 ON	26.108	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	26.108	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2149 OFF	26.108	4134VXK0004-603

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S1B		DDA 2086 ON	26.108	5162VXK0003-603
S1B		DDA 2099 OFF	26.112	5172VXK0001-603
	IU	LDI 1091 OFF	26.112	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	26.112	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	26.112	0509BIT NO 5 VERIFY
	IU	LDO 0735 OFF	26.112	4860MODE CODE 3 IND
S1B		DDA 2095 OFF	26.112	5168VXK0008-603
S1B		DDA 2096 OFF	26.112	5169VXK0008-603
S1B		DDA 2098 OFF	26.112	5171VXK0008-603
	IU	LDI 1095 OFF	26.116	0510BIT NO 6 VERIFY
S1B		LDI 0964 0	27.476	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 0	27.476	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 0	27.476	4070VJ0070-603
S1B		DDA 2020 0	27.476	4071VJ0069-603
S1B		LDI 0967 0	27.492	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 0	27.492	4136VJ0072-603
S1B		LDI 0966 0	27.500	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 0	27.500	4137VJ0071-603
S1B		LDI 0965 0	27.528	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 0	27.528	4070VJ0070-603
S1B		DDA 2020 0	27.540	4071VJ0069-603
S1B		LDI 0964 0	27.544	0419ADDRESS VERI PULSE NO. 1
	IU	LDO 0735 0	27.548	4860MODE CODE 3 IND
S1B		LDI 0966 0	27.552	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 0	27.552	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 0	27.552	4136VJ0072-603
S1B		DDA 2160 0	27.552	4137VJ0071-603
	IU	LDO 0735 0	27.592	4860MODE CODE 3 IND
S1B		DDA 2019 0	27.948	4070VJ0070-603
S1B		LDI 0965 0	27.952	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2020 0	27.956	4071VJ0069-603
S1B		LDI 0964 0	27.960	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0966 0	27.976	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 0	27.976	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 0	27.976	4136VJ0072-603
S1B		DDA 2160 0	27.976	4137VJ0071-603
	IU	LDO 0735 0	28.004	4860MODE CODE 3 IND
S1B		DDA 2019 0	28.008	4070VJ0070-603
S1B		LDI 0965 0	28.012	0420ADDRESS VERI PULSE NO. 2
S1B		LDI 0964 0	28.024	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 0	28.024	4071VJ0069-603
S1B		LDI 0967 0	28.028	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 0	28.028	4136VJ0072-603
S1B		LDI 0966 0	28.036	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 0	28.036	4137VJ0071-603
	IU	LDO 0735 0	28.312	4860MODE CODE 3 IND

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S1B		LDI 0965 ON	28.340	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON	28.340	4070VJ0070-603
S1B		LDI 0964 ON	28.348	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 ON	28.348	4071VJ0069-603
S1B	IU	MDI 2306 ON	28.384	3766IU STAGE SEL
	IU	LDI 1098 ON	28.392	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	28.392	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	28.392	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	28.392	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	28.392	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	28.392	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	28.392	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	28.392	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 ON	28.392	5163VXK0005-603
S1B		LDI 0965 OFF	28.400	0420ADDRESS VERI PULSE NO. 2
S1B		LDI 0966 ON	28.400	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	28.400	0422COMPT RESET PULSE NO. 2
	IU	LDI 1090 ON	28.400	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	28.400	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	28.400	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	28.400	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	28.400	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	28.400	0512BIT NO 8 VERIFY
S1B		DDA 2019 OFF	28.400	4070VJ0070-603
S1B		DDA 2159 ON	28.400	4136VJ0072-603
S1B		DDA 2160 ON	28.400	4137VJ0071-603
S1B		DDA 2086 OFF	28.400	5162VXK0003-603
S1B		DDA 2093 ON	28.400	5166VXK0008-603
S1B		DDA 2094 ON	28.400	5167VXK0008-603
S1B		DDA 2096 ON	28.400	5169VXK0008-603
S1B		DDA 2099 ON	28.400	5172VXK0008-603
S1B		DDA 2100 ON	28.400	5173VXK0008-603
S1B		LDI 0964 OFF	28.408	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	28.408	4071VJ0069-603
	IU	LDO 0735 ON	28.408	4860MODE CODE 3 IND
S1B		LDI 0967 OFF	28.452	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	28.452	4136VJ0072-603
S1B	IU	MDI 2306 OFF	28.456	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	28.456	3767RESET COMMAND
S1B	IU	LDI 0966 OFF	28.460	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	28.460	4137VJ0071-603
	IU	MDI 0782 ON	28.464	3482SW SEL ZERO IND
	IU	MDI 0816 ON	28.464	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	28.464	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	28.464	3519REG CONT BIT 4 VERIFY IN

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	IU	MDI 0820 ON	28.464	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	28.464	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	28.464	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	28.464	5160VXK0007-603
S1B		DDA 2086 ON	28.464	5162VXK0003-603
	IU	LDI 1091 OFF	28.468	0506BIT NO 2 VERIFY
	IU	LDI 1098 OFF	28.468	0513IU STAGE SELECTOR
	IU	LDI 1103 ON	28.468	0517RESET COMMAND
S1B		DDA 2087 OFF	28.468	5163VXK0005-603
S1B		DDA 2093 OFF	28.468	5166VXK0008-603
S1B		DDA 2099 OFF	28.468	5172VXK0008-603
S1B		DDA 2100 OFF	28.468	5173VXK0008-603
	IU	LDI 1090 OFF	28.472	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	28.472	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	28.472	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	28.472	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	28.472	0512BIT NO 8 VERIFY
	IU	LDI 1098 ON	28.472	0513IU STAGE SELECTOR
S1B	IU	MDI 2306 ON	28.472	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	28.472	3767RESET COMMAND
S1B		DDA 2087 ON	28.472	5163VXK0005-603
S1B		DDA 2094 OFF	28.472	5167VXK0008-603
S1B		DDA 2096 OFF	28.472	5169VXK0008-603
	IU	LDI 1090 ON	28.484	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	28.484	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	28.484	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	28.484	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	28.484	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	28.484	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	28.484	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	28.484	0512BIT NO 8 VERIFY
	IU	MDI 0782 OFF	28.484	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	28.484	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	28.484	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF	28.484	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2084 OFF	28.484	5160VXK0007-603
S1B		DDA 2093 ON	28.484	5166VXK0008-603
S1B		DDA 2094 ON	28.484	5167VXK0008-603
S1B		DDA 2095 ON	28.484	5168VXK0008-603
S1B		DDA 2096 ON	28.484	5169VXK0008-603
S1B		DDA 2098 ON	28.484	5171VXK0008-603
S1B		DDA 2099 ON	28.484	5172VXK0008-603
S1B		DDA 2100 ON	28.484	5173VXK0008-603
	IU	LDI 1103 OFF	28.488	0517RESET COMMAND
S1B		DDA 2086 OFF	28.492	5162VXK0003-603
	IU	LDI 1090 OFF	28.496	0505BIT NO 1 VERIFY

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	IU	LDI 1093 OFF	28.496	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	28.496	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	28.496	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	28.496	0512BIT NO 8 VERIFY
S1B	IU	MDI 2308 ON	28.496	3768READ COMMAND
S1B S4B	IU	-3- 331 READ	28.496	
S1B		DDA 2093 OFF	28.496	5166VXK0008-603
S1B		DDA 2094 OFF	28.496	5167VXK0008-603
S1B		DDA 2096 OFF	28.496	5169VXK0008-603
S1B		DDA 2100 OFF	28.496	5173VXK0008-603
S1B		DDA 2149 ON	28.504	4134VK0004-603
	IU	LDI 0983 ON	28.508	0463SW SEL READ
	IU	LDI 1102 ON	28.508	0516SW SEL READ
S1B		DDA 2085 OFF	28.508	5161VXK0006-603
S1B	IU	MDI 2306 OFF	28.524	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	28.524	3768READ COMMAND
S1B		DDA 2087 OFF	28.532	5163VXK0005-603
	IU	LDI 0983 OFF	28.536	0463SW SEL READ
	IU	LDI 1098 OFF	28.536	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	28.536	0516SW SEL READ
S1B		DDA 2085 OFF	28.536	5161VXK0006-603
	IU	MDI 0782 ON	28.540	3482SW SEL ZERO IND
	IU	MDI 0817 ON	28.540	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	28.540	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 ON	28.540	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2149 OFF	28.540	4134VK0004-603
S1B		DDA 2086 ON	28.540	5162VXK0003-603
S1B		DDA 2099 OFF	28.540	5172VXK0008-603
	IU	LDI 1091 OFF	28.544	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	28.544	0507BIT NO 3 VERIFY
	IU	LDO 0735 OFF	28.544	4860MODE CODE 3 IND
S1B		DDA 2098 OFF	28.544	5171VXK0008-603
	IU	LDI 1095 OFF	28.548	0510BIT NO 6 VERIFY
S1B		DDA 2095 OFF	28.548	5168VXK0008-603
S1B		DDA 2019 ON	29.956	4070VJ0070-603
S1B		DDA 2020 ON	29.956	4071VJ0069-603
S1B		LDI 0964 ON	29.960	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON	29.960	0420ADDRESS VERI PULSE NO. 2
S1B		LDI 0967 ON	29.992	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	29.992	4136VJ0072-603
S1B		LDI 0966 ON	30.000	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	30.000	4137VJ0071-603
S1B		DDA 2019 OFF	30.008	4070VJ0070-603
S1B		LDI 0965 OFF	30.012	0420ADDRESS VERI PULSE NO. 2
S1B		LDI 0964 OFF	30.024	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	30.024	4071VJ0069-603

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	IU	LDO 0735 ON	30.032	4860MODE CODE 3 IND
S1B		LDI 0966 OFF	30.052	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	30.052	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	30.052	4136VJ0072-603
S1B		DDA 2160 OFF	30.052	4137VJ0071-603
	IU	LDO 0735 OFF	30.332	4860MODE CODE 3 IND
S1B		DDA 2019 ON	30.464	4070VJ0070-603
S1B		DDA 2020 ON	30.464	4071VJ0069-603
S1B		LDI 0964 ON	30.468	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON	30.468	0420ADDRESS VERI PULSE NO. 2
S1B		LDI 0966 ON	30.500	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	30.500	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	30.500	4136VJ0072-603
S1B		DDA 2160 ON	30.500	4137VJ0071-603
S1B		DDA 2019 OFF	30.516	4070VJ0070-603
S1B		LDI 0965 OFF	30.520	0420ADDRESS VERI PULSE NO. 2
S1B		LDI 0964 OFF	30.532	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	30.532	4071VJ0069-603
S1B		LDI 0966 OFF	30.560	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	30.560	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	30.560	4136VJ0072-603
S1B		DDA 2160 OFF	30.560	4137VJ0071-603
	IU	LDO 0735 ON	30.572	4860MODE CODE 3 IND
	IU	LDO 0735 OFF	30.588	4860MODE CODE 3 IND
S1B		LDI 0964 ON	30.932	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON	30.932	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON	30.932	4070VJ0070-603
S1B		DDA 2020 ON	30.932	4071VJ0069-603
S1B	IU	MDI 2306 ON	30.960	3766IU STAGE SEL
	IU	LDI 1098 ON	30.964	0513IU STAGE SELECTOR
	IU	MDI 0818 OFF	30.964	3518REG CONT BIT 3 VERIFY IN
S1B		DDA 2087 ON	30.964	5163VXK0005-603
	IU	MDI 0782 OFF	30.968	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	30.968	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	30.968	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF	30.968	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	30.968	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2098 ON	30.972	5164VXK0004-603
S1B		DDA 2098 ON	30.972	5171VXK0008-603
S1B		DDA 2099 ON	30.972	5172VXK0008-603
S1B		DDA 2100 ON	30.972	5173VXK0008-603
S1B		LDI 0966 ON	30.976	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	30.976	0422COMPT RESET PULSE NO. 2
	IU	LDI 1090 ON	30.976	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	30.976	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	30.976	0507BIT NO 3 VERIFY

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	IU		LDI 1095 ON	30.976	0510BIT NO 6 VERIFY
	IU		LDI 1097 ON	30.976	0512BIT NO 8 VERIFY
S1B			DDA 2159 ON	30.976	4136VJ0072-603
S1B			DDA 2160 ON	30.976	5177VJ0071-603
S1B			DDA 2086 OFF	30.976	5162VXK0003-603
S1B			DDA 2095 ON	30.976	5168VXK0008-603
S1B			LDI 0965 OFF	30.984	0420ADDRESS VERI PULSE NO. 2
S1B			DDA 2019 OFF	30.984	4070VJ0070-603
	IU		LDO 0735 ON	30.984	4866MODE CODE 3 IND
S1B	IU		MDI 2306 OFF	30.996	3766IU STAGE SEL
S1B	IU		MDI 2307 ON	30.996	3767RESET COMMAND
S1B S4B	IU	-3-	130 RESET	30.996	
S1B			LDI 0964 OFF	31.000	0419ADDRESS VERI PULSE NO. 1
S1B			DDA 2020 OFF	31.000	4071VJ0069-603
	IU		MDI 0782 ON	31.004	3482SW SEL ZERO IND
	IU		MDI 0816 ON	31.004	3516REG CONT BIT 1 VERIFY IN
	IU		MDI 0817 ON	31.004	3517REG CONT BIT 2 VERIFY IN
	IU		MDI 0818 ON	31.004	3518REG CONT BIT 3 VERIFY IN
	IU		MDI 0821 ON	31.004	3521REG CONT BIT 6 VERIFY IN
	IU		MDI 0823 ON	31.004	3523REG CONT BIT 8 VERIFY IN
	IU		LDI 1091 OFF	31.008	0506BIT NO 2 VERIFY
	IU		LDI 1103 ON	31.008	0517RESET COMMAND
S1B			DDA 2084 ON	31.008	5160VXK0007-603
S1B			DDA 2086 ON	31.008	5162VXK0003-603
S1B			DDA 2087 OFF	31.008	5163VXK0005-603
S1B			DDA 2098 OFF	31.008	5171VXK0008-603
S1B			DDA 2099 OFF	31.008	5172VXK0008-603
	IU		LDI 1090 OFF	31.012	0505BIT NO 1 VERIFY
	IU		LDI 1092 OFF	31.012	0507BIT NO 3 VERIFY
	IU		LDI 1095 OFF	31.012	0510BIT NO 6 VERIFY
	IU		LDI 1097 OFF	31.012	0512BIT NO 8 VERIFY
	IU		LDI 1098 OFF	31.012	0513IU STAGE SELECTOR
S1B	IU		MDI 2306 ON	31.012	3766IU STAGE SEL
S1B	IU		MDI 2307 OFF	31.012	3767RESET COMMAND
S1B			DDA 2093 OFF	31.012	5166VXK0008-603
S1B			DDA 2095 OFF	31.012	5168VXK0008-603
S1B			DDA 2100 OFF	31.012	5173VXK0008-603
	IU		LDI 1098 ON	31.024	0513IU STAGE SELECTOR
	IU		MDI 0782 OFF	31.024	3482SW SEL ZERO IND
	IU		MDI 0817 OFF	31.024	3517REG CONT BIT 2 VERIFY IN
	IU		MDI 0818 OFF	31.024	3518REG CONT BIT 3 VERIFY IN
	IU		MDI 0821 OFF	31.024	3521REG CONT BIT 6 VERIFY IN
	IU		MDI 0822 OFF	31.024	3522REG CONT BIT 7 VERIFY IN
	IU		MDI 0823 OFF	31.024	3523REG CONT BIT 8 VERIFY IN
S1B			DDA 2159 OFF	31.024	4136VJ0072-603
S1B			DDA 2087 ON	31.024	5163VXK0005-603

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S1B		LDI 0967 OFF 31.028 0422COMPT RESET PULSE NO. 2
	IU	LDI 1103 OFF 31.028 0517RESET COMMAND
	IU	MDI 0818 ON 31.028 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 31.028 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 31.028 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 31.028 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON 31.028 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2094 OFF 31.032 5167VXK0008-603
	IU	LDI 1091 ON 31.032 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 31.032 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 31.032 0509BIT NO 5 VERIFY
	IU	LDI 1096 ON 31.032 0511BIT NO 7 VERIFY
S1B		DDA 2086 OFF 31.032 5162VXK0003-603
S1B		DDA 2094 OFF 31.032 5167VXK0008-603
S1B		DDA 2096 ON 31.032 5169VXK0008-603
S1B		DDA 2099 ON 31.032 5172VXK0008-603
S1B		LDI 0966 OFF 31.036 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 31.036 4137VJ0071-603
S1B	IU	MDI 2308 ON 31.040 3768READ COMMAND
S1B S4B	IU	-3- 245 READ 31.040
	IU	LDI 0983 ON 31.048 0463SW SEL READ
	IU	LDI 1103 ON 31.048 0513IU STAGE SELECTOR
S1B		DDA 2149 ON 31.048 4134VK0004-603
S1B		DDA 2085 ON 31.048 5161VXK0006-603
S1B	IU	MDI 2306 OFF 31.068 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 31.068 3768READ COMMAND
	IU	LDI 0983 OFF 31.076 0463SW SEL READ
	IU	LDI 1096 OFF 31.076 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 31.076 0516SW SEL READ
S1B		DDA 2087 OFF 31.076 5163VXK0005-603
	IU	MDI 0782 ON 31.080 3482SW SEL ZERO IND
	IU	MDI 0817 ON 31.080 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 31.080 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 31.080 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON 31.080 3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1091 OFF 31.084 0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF 31.084 4134VK0004-603
S1B		DDA 2086 ON 31.084 5162VXK0003-603
S1B		DDA 2099 OFF 31.084 5172VXK0008-603
	IU	LDI 1093 OFF 31.088 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 31.088 0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF 31.088 0511BIT NO 7 VERIFY
	IU	LDO 0735 OFF 31.088 4860MODE CODE 3 IND
S1B		DDA 2094 OFF 31.088 5167VXK0008-603
S1B		DDA 2096 OFF 31.088 5169VXK0008-603

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S1B	S4B	IU	CDC	00	40	
S1B	S4B	IU	CDC	00	41	
S1B	S4B	IU	CDC	00	42	
S1B	S4B	IU	CDC	00	43	
S1B	S4B	IU	CDC	00	44	
S1B	S4B	IU	MDI	2308	ON	41.268 3768S-IVB STAGE SEL
	S4B		MDI	1844	OFF	41.264 3928SW SEL ZERO
		IU	LDI	1091	ON	41.268 0506BIT NO 2 VERIFY
		IU	LDI	1092	ON	41.268 0507BIT NO 3 VERIFY
		IU	LDI	1094	ON	41.268 0509BIT NO 5 VERIFY
		IU	LDI	1095	ON	41.268 0510BIT NO 6 VERIFY
		IU	LDI	1096	ON	41.268 0511BIT NO 7 VERIFY
		IU	LDI	1099	ON	41.268 0514S-IVB STAGE SELECTOR
		IU	MDI	0816	OFF	41.268 3516REG CONT BIT 1 VERIFY IN
		IU	MDI	0817	OFF	41.268 3517REG CONT BIT 2 VERIFY IN
		IU	MDI	0823	OFF	41.268 3523REG CONT BIT 8 VERIFY IN
S1B			DDA	2088	ON	41.268 5164VXK0005-603
S1B			DDA	2094	ON	41.268 5167VXK0008-603
S1B			DDA	2095	0	41.268 5168VXK0008-603
S1B			DDA	2098	ON	41.268 5171VXK0008-603
S1B			DDA	2099	ON	41.268 5172VXK0008-603
		IU	LDI	1090	ON	41.276 0505BIT NO 1 VERIFY
		IU	LDI	1097	ON	41.276 0512BIT NO 8 VERIFY
S1B			DDA	2093	ON	41.276 5166VXK0008-603
S1B			DDA	2100	ON	41.276 5173VXK0008-603
		IU	LDI	1092	OFF	41.280 0507BIT NO 3 VERIFY
S1B			DDA	2094	OFF	41.280 5167VXK0008-603
S1B			DDA	2095	OFF	41.280 5168VXK0008-603
S1B			DDA	2096	OFF	41.280 5169VXK0008-603
S1B			DDA	2098	OFF	41.280 5171VXK0008-603
		IU	LDI	1094	OFF	41.284 0509BIT NO 5 VERIFY
		IU	LDI	1095	OFF	41.284 0510BIT NO 6 VERIFY
		IU	LDI	1096	OFF	41.284 0511BIT NO 7 VERIFY
	S4B		LDO	1844	OFF	41.312 4535SW SEL ZERO
S1B		IU	MDI	2308	ON	41.412 3768READ COMMAND
S1B	S4B	IU	-2-	174	READ	41.412
	S4B		MDI	1704	OFF	41.416 3082AUX HYD PUMP FLT REL RSE
S1B			DDA	2085	ON	41.416 5161VXK0006-603
		IU	LDI	0983	ON	41.420 0463SW SEL READ
		IU	LDI	1102	ON	41.420 0516SW SEL READ
	S4B		MDI	1705	ON	41.420 3083AUX HYD PUMP POWER ON
	S4B		MDI	1837	OFF	41.420 3921RDY FOR 40411 PWR
	S4B		MDI	1992	ON	41.420 3984AUX HYD P FLT REL RS OFF
S1B			DDA	2029	0	41.420 4080VK0128-404
S1B		IU	MDI	2305	OFF	41.448 3765S-IVB STAGE SEL

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S1B	IU	MDI 2308 OFF	41.448	3768READ COMMAND
S1B		DDA 2085 OFF	41.452	5161VXK0006-603
S1B		DDA 2088 OFF	41.452	5164VXK0005-603
	IU	LDI 0983 OFF	41.456	0463SW SEL READ
	IU	LDI 1099 OFF	41.456	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	41.456	0516SW SEL READ
S4B		MDI 1844 ON	41.456	3928SW SEL ZERO
	IU	LDI 1091 OFF	41.460	0506BIT NO 2 VERIFY
	IU	MDI 0816 ON	41.460	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	41.460	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0823 ON	41.460	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2099 OFF	41.460	5172VXK0008-603
	IU	LDI 1090 OFF	41.464	0505BIT NO 1 VERIFY
	IU	LDI 1097 OFF	41.464	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	41.464	5166VXK0008-603
S1B		DDA 2100 OFF	41.464	5173VXK0008-603
S1B		DDA 2029 OFF	41.468	4060VK0128-404
S4B		LDO 1704 OFF	41.472	4765AUX HYD PUMP FLT REL RSE
S4B		LDO 1705 ON	41.472	4766AUX HYD PUMP POWER ON
S4B		LDO 1992 ON	41.480	4712AUX HYD P FLT REL RS OFF
S4B		LDO 1837 OFF	41.496	4528RDY FOR 4D411 PWR
S4B		LDO 1844 ON	41.536	4535SW SEL ZERO
S1B S4B	IU	CDC	00 45	
S1B S4B	IU	CDC	00 46	
S1B S4B	IU	CDC	00 47	
S1B S4B	IU	CDC	00 48	
S1B S4B	IU	CDC	00 49	
S1B S4B	IU	CDC	00 50	
S1B S4B	IU	CDC	00 51	
S1B S4B	IU	CDC	00 52	
S1B	IU	MDI 2305 ON	41.228	3765S-IVB STAGE SEL
S4B		MDI 1844 OFF	41.232	3928SW SEL ZERO
	IU	LDI 1090 ON	41.236	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	41.236	0506BIT NO 2 VERIFY
	IU	LDI 1097 ON	41.236	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	41.236	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	41.236	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	41.236	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 OFF	41.236	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	41.236	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	41.236	5164VXK0005-603
S1B		DDA 2093 ON	41.236	5166VXK0008-603
S1B		DDA 2099 ON	41.236	5172VXK0008-603
S1B		DDA 2100 ON	41.236	5173VXK0008-603
	IU	LDI 1096 ON	41.244	0511BIT NO 7 VERIFY
S1B		DDA 2094 ON	41.244	5174VXK0008-603

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S4B		LDO 1844 OFF	41.280	4535SW SEL ZERO
S1B S4B	IU	MDI 2308 ON	41.380	3768READ COMMAND
S1B S4B	IU	-2- 074 READ	41.380	
S4B		MDI 1704 ON	41.384	3082AUX HYD PUMP FLT REL RSE
S4B		MDI 1705 OFF	41.384	3083AUX HYD PUMP POWER ON
	IU	LDI 0983 ON	41.388	0463SW SEL READ
	IU	LDI 1102 ON	41.388	0516SW SEL READ
S4B		MDI 1837 ON	41.388	3921RDY FOR 4D411 PWR
S4B		MDI 1992 OFF	41.388	3984AUX HYD P FLT REL RS OFF
S1B		DDA 2029 ON	41.388	4080VK0128-404
S1B		DDA 2085 ON	41.388	5161VXK0006-603
S1B	IU	MDI 2305 OFF	41.416	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	41.416	3768READ COMMAND
S1B		MDI 2308 OFF	41.420	5162VXK0008-603
	IU	LDI 0983 OFF	41.424	0463SW SEL READ
	IU	LDI 1099 OFF	41.424	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	41.424	0516SW SEL READ
S4B		MDI 1844 ON	41.424	3928SW SEL ZERO
S1B		DDA 2088 OFF	41.424	5164VXK0005-603
	IU	LDI 1091 OFF	41.428	0506BIT NO 2 VERIFY
	IU	MDI 0816 ON	41.428	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	41.428	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 ON	41.428	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	41.428	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2099 OFF	41.428	5172VXK0008-603
	IU	LDI 1097 OFF	41.432	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	41.432	5166VXK0008-603
S1B		DDA 2094 OFF	41.432	5167VXK0008-603
S1B		DDA 2094 OFF	41.432	5173VXK0008-603
	IU	LDI 1096 OFF	41.436	0511BIT NO 7 VERIFY
S1B		DDA 2029 OFF	41.436	4080VK0128-404
S4B		LDO 1704 ON	41.440	4765AUX HYD PUMP FLT REL RSE
S4B		LDO 1705 OFF	41.452	4766AUX HYD PUMP POWER ON
S4B		LDO 1837 ON	41.460	4528RDY FOR 4D411 PWR
S4B		LDO 1992 OFF	41.472	4712AUX HYD P FLT REL RS OFF
S4B		LDO 1844 ON	41.504	4535SW SEL ZERO
S1B S4B	IU	CTC 00 53		
S1B S4B	IU	CDC 00 54		
S1B S4B	IU	CDC 00 55		
S1B S4B	IU	CDC 00 56		
S1B S4B	IU	CDC 00 57		
S1B S4B	IU	CDC 00 58		
S1B S4B	IU	CDC 00 59		
S1B S4B	IU	CDC 01 00		
S1B	IU	MDI 2306 ON	12.420	3766IU STAGE SEL

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	IU	MDI 0817 OFF	12.424	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	12.424	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	12.424	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2087 ON	12.424	5163VXK0005-603
S1B		DDA 2094 ON	12.424	5167VXK0008-603
	IU	LDI 1091 ON	12.428	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	12.428	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	12.428	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	12.428	0511BIT NO 7 VERIFY
	IU	LDI 1098 ON	12.428	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	12.428	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	12.428	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF	12.428	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	12.428	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF	12.428	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2096 ON	12.428	5169VXK0008-603
S1B		DDA 2099 ON	12.428	5172VXK0008-603
	IU	LDI 1090 ON	12.436	0505BIT NO 1 VERIFY
	IU	LDI 1092 ON	12.436	0507BIT NO 3 VERIFY
	IU	LDI 1097 ON	12.436	0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF	12.436	5162VXK0003-603
S1B		DDA 2093 ON	12.436	5166VXK0008-603
S1B		DDA 2098 ON	12.436	5171VXK0008-603
S1B		DDA 2100 ON	12.436	5173VXK0008-603
S1B	IU	MDI 2306 OFF	12.440	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	12.440	3767RESET COMMAND
S1B S4B	IU	-3- 040 RESET	12.440	
	IU	MDI 0782 ON	12.448	3482SW SEL ZERO IND
	IU	MDI 0816 ON	12.448	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	12.448	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	12.448	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	12.448	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	12.448	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	12.448	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	12.448	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF	12.452	0506BIT NO 2 VERIFY
	IU	LDI 1103 ON	12.452	0517RESET COMMAND
S1B		DDA 2084 ON	12.452	5160VXK0007-603
S1B		DDA 2086 ON	12.452	5162VXK0003-603
S1B		DDA 2087 OFF	12.452	5163VXK0005-603
S1B		DDA 2099 OFF	12.452	5172VXK0008-603
	IU	LDI 1091 OFF	12.456	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	12.456	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	12.456	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	12.456	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	12.456	0511BIT NO 7 VERIFY

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	IU	LDI 1097 OFF 12.456 0512BIT NO 8 VERIFY
	IU	LDI 1098 OFF 12.456 0513IU STAGE SELECTOR
S1B	IU	MDI 2306 ON 12.456 3766IU STAGE SEL
S1B	IU	MDI 2307 OFF 12.456 3767RESET COMMAND
S1B		DDA 2093 OFF 12.456 5166VXK0008-603
S1B		DDA 2094 OFF 12.456 5167VXK0008-603
S1B		DDA 2096 OFF 12.456 5169VXK0008-603
S1B		DDA 2098 OFF 12.456 5171VXK0008-603
S1B		DDA 2100 OFF 12.456 5173VXK0008-603
	IU	LDI 1098 ON 12.468 0513IU STAGE SELECTOR
	IU	MDI 0782 OFF 12.468 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 12.468 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 12.468 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 12.468 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF 12.468 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 12.468 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 ON 12.468 5163VXK0005-603
	IU	LDI 1103 OFF 12.472 0517RESET COMMAND
	IU	MDI 0818 ON 12.472 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 12.472 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON 12.472 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF 12.472 5160VXK0007-603
	IU	LDI 1091 ON 12.476 0506BIT NO 2 VERIFY
	IU	LDI 1095 ON 12.476 0510BIT NO 6 VERIFY
S1B		DDA 2086 OFF 12.476 5162VXK0003-603
S1B		DDA 2095 ON 12.476 5168VXK0008-603
S1B		DDA 2099 ON 12.476 5172VXK0008-603
S1B	IU	MDI 2308 ON 12.576 3768READ COMMAND
S1B S4B	IU	-3- 335 READ 12.576
S1B		DDA 2149 ON 12.580 4134VK0004-603
	IU	LDI 0983 ON 12.584 0463SW SEL READ
	IU	LDI 1102 ON 12.584 0516SW SEL READ
S1B		DDA 2085 ON 12.584 5161VXK0006-603
S1B	IU	MDI 2306 OFF 12.604 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 12.604 3768READ COMMAND
	IU	LDI 0983 OFF 12.620 0463SW SEL READ
	IU	LDI 1098 OFF 12.620 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 12.620 0516SW SEL READ
	IU	MDI 0782 ON 12.620 3482SW SEL ZERO IND
	IU	MDI 0817 ON 12.620 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 ON 12.620 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2087 OFF 12.620 5163VXK0005-603
S1B	IU	LDI 1091 OFF 12.628 0506BIT NO 2 VERIFY
S1B		DDA 2149 OFF 12.628 4134VK0004-603
S1B		DDA 2086 ON 12.628 5162VXK0003-603

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S18		DDA 2099 OFF 12.628 5172VXK0008-603
	10	LDI 1095 OFF 12.632 0510BIT NO 6 VERIFY
S18		DDA 2095 OFF 12.632 5168VXK0008-603
S18	10	MDI 2305 ON 15.408 3765S-IVB STAGE SEL
	10	MDI 0816 OFF 15.412 3516REG CONT BIT 1 VERIFY IN
	10	MDI 0817 OFF 15.412 3517REG CONT BIT 2 VERIFY IN
	10	MDI 0822 OFF 15.412 3522REG CONT BIT 7 VERIFY IN
	10	MDI 0823 OFF 15.412 3523REG CONT BIT 8 VERIFY IN
S48		MDI 1844 OFF 15.412 3928SW SEL ZERO
	10	MDI 0818 OFF 15.416 3518REG CONT BIT 3 VERIFY IN
	10	MDI 0820 OFF 15.416 3520REG CONT BIT 5 VERIFY IN
	10	MDI 0821 OFF 15.416 3521REG CONT BIT 6 VERIFY IN
	10	MDI 0822 ON 15.416 3522REG CONT BIT 7 VERIFY IN
S18		DDA 2088 ON 15.416 5164VXK0005-603
S18		DDA 2093 ON 15.416 5166VXK0008-603
S18		DDA 2095 ON 15.416 5168VXK0008-603
S18		DDA 2096 ON 15.416 5169VXK0008-603
S18		DDA 2098 ON 15.416 5171VXK0008-603
S18		DDA 2099 ON 15.416 5172VXK0008-603
S18		DDA 2100 ON 15.416 5173VXK0008-603
	10	LDI 1090 ON 15.420 0505BIT NO 1 VERIFY
	10	LDI 1091 ON 15.420 0506BIT NO 2 VERIFY
	10	LDI 1092 ON 15.420 0507BIT NO 3 VERIFY
	10	LDI 1094 ON 15.420 0509BIT NO 5 VERIFY
	10	LDI 1095 ON 15.420 0510BIT NO 6 VERIFY
	10	LDI 1097 ON 15.420 0512BIT NO 8 VERIFY
	10	LDI 1099 ON 15.420 0514S-IVB STAGE SELECTOR
S18	10	MDI 2305 OFF 15.444 3765S-IVB STAGE SEL
S18	10	MDI 2307 ON 15.444 3767RESET COMMAND
S18 S48	10	-2- 110 RESET 15.444
S48		MDI 1844 ON 15.448 3928SW SEL ZERO
	10	LDI 1099 OFF 15.452 0514S-IVB STAGE SELECTOR
	10	LDI 1103 ON 15.452 0517RESET COMMAND
	10	MDI 0816 ON 15.452 3516REG CONT BIT 1 VERIFY IN
	10	MDI 0817 ON 15.452 3517REG CONT BIT 2 VERIFY IN
	10	MDI 0818 ON 15.452 3518REG CONT BIT 3 VERIFY IN
	10	MDI 0820 ON 15.452 3520REG CONT BIT 5 VERIFY IN
	10	MDI 0821 ON 15.452 3521REG CONT BIT 6 VERIFY IN
	10	MDI 0823 ON 15.452 3523REG CONT BIT 8 VERIFY IN
S18		DDA 2084 ON 15.452 5160VXK0007-603
S18		DDA 2088 OFF 15.452 5164VXK0005-603
	10	LDI 1091 OFF 15.460 0506BIT NO 2 VERIFY
S18	10	MDI 2305 ON 15.460 3765S-IVB STAGE SEL
S18	10	MDI 2307 OFF 15.460 3767RESET COMMAND
S18		DDA 2093 OFF 15.460 5166VXK0008-603
S18		DDA 2095 OFF 15.460 5168VXK0008-603

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	IU	LDI 1090	OFF	15.464	0505BIT NO 1 VERIFY
	IU	LDI 1092	OFF	15.464	0507BIT NO 3 VERIFY
	IU	LDI 1094	OFF	15.464	0509BIT NO 5 VERIFY
	IU	LDI 1095	OFF	15.464	0510BIT NO 6 VERIFY
	IU	LDI 1097	OFF	15.464	0512BIT NO 8 VERIFY
S1B		DDA 2093	OFF	15.464	5166VXK0008-603
S1B		DDA 2095	OFF	15.464	5168VXK0008-603
S1B		DDA 2096	OFF	15.464	5169VXK0008-603
S1B		DDA 2100	OFF	15.464	5173VXK0008-603
	IU	LDI 1099	ON	15.468	0514S-IVB STAGE SELECTOR
S1B		DDA 2088	ON	15.468	5164VXK0005-603
	IU	LDI 1103	OFF	15.472	0517RESET COMMAND
	IU	MDI 0818	OFF	15.472	3516REG CONT BIT 3 VERIFY IN
S4B		MDI 1844	OFF	15.472	3928SW SEL ZERO
S1B		DDA 2084	OFF	15.472	5160VXK0007-603
	IU	LDI 1090	ON	15.476	0505BIT NO 1 VERIFY
	IU	LDI 1091	ON	15.476	0506BIT NO 2 VERIFY
	IU	LDI 1092	ON	15.476	0507BIT NO 3 VERIFY
	IU	LDI 1094	ON	15.476	0509BIT NO 5 VERIFY
	IU	LDI 1095	ON	15.476	0510BIT NO 6 VERIFY
	IU	LDI 1097	ON	15.476	0512BIT NO 8 VERIFY
	IU	MDI 0817	OFF	15.476	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	ON	15.476	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	15.476	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822	OFF	15.476	3522REG CONT BIT 7 VERIFY IN
S4B		LDO 1844	OFF	15.476	4535SW SEL ZERO
S1B		DDA 2093	ON	15.476	5166VXK0008-603
S1B		DDA 2095	ON	15.476	5168VXK0008-603
S1B		DDA 2096	ON	15.476	5169VXK0008-603
S1B		DDA 2098	ON	15.476	5171VXK0008-603
S1B		DDA 2099	ON	15.476	5172VXK0008-603
S1B		DDA 2100	ON	15.476	5173VXK0008-603
	IU	LDI 1093	ON	15.484	0508BIT NO 4 VERIFY
	IU	LDI 1096	ON	15.484	0511BIT NO 7 VERIFY
S1B		DDA 2094	ON	15.484	5167VXK0008-603
	IU	LDI 1090	OFF	15.488	0505BIT NO 1 VERIFY
	IU	LDI 1092	OFF	15.488	0507BIT NO 3 VERIFY
	IU	LDI 1094	OFF	15.488	0509BIT NO 5 VERIFY
	IU	LDI 1097	OFF	15.488	0512BIT NO 8 VERIFY
S1B		DDA 2093	OFF	15.488	5166VXK0008-603
S1B		DDA 2095	OFF	15.488	5168VXK0008-603
S1B		DDA 2096	OFF	15.488	5169VXK0008-603
S1B		DDA 2098	OFF	15.488	5171VXK0008-603
S1B		DDA 2100	OFF	15.488	5173VXK0008-603
	IU	LDI 1095	OFF	15.492	0510BIT NO 6 VERIFY
S4B		LDO 1844	ON	15.508	4535SW SEL ZERO

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	S4B		LDI 1844 OFF	15.552	4535SW SEL ZERO
S1B	IU		MDI 2308 ON	15.568	3768READ COMMAND
S1B	S4B	IU	-2- 265 READ	15.568	
		IU	LDI 0983 ON	15.576	0463SW SEL READ
		IU	LDI 1102 ON	15.576	0516SW SEL READ
S1B			DDA 2085 ON	15.576	5161VXK0006-603
S1B			DDA 2029 ON	15.580	4080VK0128-404
S1B	IU		MDI 2305 OFF	15.596	3765S-IVB STAGE SEL
S1B	IU		MDI 2308 OFF	15.596	3768READ COMMAND
		IU	LDI 0983 OFF	15.604	0463SW SEL READ
		IU	LDI 1099 OFF	15.604	0514S-IVB STAGE SELECTOR
		IU	LDI 1102 OFF	15.604	0516SW SEL READ
	S4B		MDI 1844 ON	15.604	3928SW SEL ZERO
S1B			DDA 2085 OFF	15.604	5161VXK0006-603
S1B			DDA 2088 OFF	15.604	5164VXK0005-603
		IU	MDI 0817 ON	15.608	3517REG CONT BIT 2 VERIFY IN
		IU	MDI 0819 ON	15.608	3519REG CONT BIT 4 VERIFY IN
		IU	MDI 0822 ON	15.608	3522REG CONT BIT 7 VERIFY IN
S1B			DDA 2099 OFF	15.608	5172VXK0008-603
		IU	LDI 1091 OFF	15.612	0506BIT NO 2 VERIFY
S1B			DDA 2094 OFF	15.612	5167VXK0008-603
		IU	LDI 1093 OFF	15.616	0508BIT NO 4 VERIFY
		IU	LDI 1096 OFF	15.616	0511BIT NO 7 VERIFY
S1B			DDA 2029 OFF	15.616	4080VK0128-404
	S4B		LDO 1844 ON	15.660	4535SW SEL ZERO
S1B			DDA 2029 ON	15.712	4080VK0128-404
S1B			DDA 2030 ON	15.796	4081VK0128-404
S1B			DDA 2029 OFF	15.800	4080VK0128-404
S1B			DDA 2029 ON	15.964	4080VK0128-404
S1B			DDA 2029 OFF	16.048	4080VK0128-404
S1B			DDA 2030 OFF	16.052	4081VK0128-404
S1B	IU		MDI 2305 ON	16.404	3765S-IVB STAGE SEL
	IU		LDI 1099 ON	16.408	0514S-IVB STAGE SELECTOR
	S4B		MDI 1844 OFF	16.408	3928SW SEL ZERO
S1B			DDA 2088 ON	16.408	5164VXK0005-603
		IU	MDI 0817 OFF	16.412	3517REG CONT BIT 2 VERIFY IN
		IU	MDI 0819 OFF	16.412	3519REG CONT BIT 4 VERIFY IN
		IU	MDI 0822 OFF	16.412	3522REG CONT BIT 7 VERIFY IN
		IU	MDI 0823 OFF	16.412	3523REG CONT BIT 8 VERIFY IN
		IU	LDI 1099 ON	16.416	0511BIT NO 7 VERIFY
		IU	MDI 0820 OFF	16.416	3520REG CONT BIT 5 VERIFY IN
		IU	MDI 0821 OFF	16.416	3521REG CONT BIT 6 VERIFY IN
S1B			DDA 2093 ON	16.416	5166VXK0008-603
S1B			DDA 2094 ON	16.416	5167VXK0008-603
S1B			DDA 2095 ON	16.416	5168VXK0008-603
S1B			DDA 2096 ON	16.416	5169VXK0008-603

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S1B		DDA 2099 ON	16.416	5172VXK0008-603	
	IU	LDI 1091 ON	16.420	0506BIT NO 2 VERIFY	
	IU	LDI 1093 ON	16.420	0508BIT NO 4 VERIFY	
	IU	LDI 1094 ON	16.420	0509BIT NO 5 VERIFY	
	IU	LDI 1095 ON	16.420	0510BIT NO 6 VERIFY	
	IU	LDI 1097 ON	16.420	0512BIT NO 8 VERIFY	
S1B	IU	MDI 2305 OFF	16.428	3765S-IVB STAGE SEL	
S1B	IU	MDI 2307 ON	16.428	3767RESET COMMAND	
S1B S4B	IU	-2- 005 RESET	16.428		
	S4B	MDI 1844 ON	16.432	3928SW SEL ZERO	
S1B		DDA 2084 ON	16.432	5160VXK0007-603	
	IU	LDI 1099 OFF	16.436	0514S-IVB STAGE SELECTOR	
	IU	LDI 1103 ON	16.436	0517RESET COMMAND	
	IU	MDI 0817 ON	16.436	3517REG CONT BIT 2 VERIFY IN	
	IU	MDI 0819 ON	16.436	3519REG CONT BIT 4 VERIFY IN	
	IU	MDI 0820 ON	16.436	3520REG CONT BIT 5 VERIFY IN	
	IU	MDI 0821 ON	16.436	3521REG CONT BIT 6 VERIFY IN	
	IU	MDI 0822 ON	16.436	3522REG CONT BIT 7 VERIFY IN	
	IU	MDI 0823 ON	16.436	3523REG CONT BIT 8 VERIFY IN	
S1B		DDA 2088 OFF	16.436	5164VXK0005-603	
	IU	LDI 1091 OFF	16.444	0506BIT NO 2 VERIFY	
S1B		DDA 2093 OFF	16.444	5166VXK0008-603	
S1B		DDA 2099 OFF	16.444	5172VXK0008-603	
	IU	LDI 1093 OFF	16.448	0508BIT NO 4 VERIFY	
	IU	LDI 1094 OFF	16.448	0509BIT NO 5 VERIFY	
	IU	LDI 1095 OFF	16.448	0510BIT NO 6 VERIFY	
	IU	LDI 1096 OFF	16.448	0511BIT NO 7 VERIFY	
	IU	LDI 1097 OFF	16.448	0512BIT NO 8 VERIFY	
S1B		DDA 2094 OFF	16.448	5167VXK0008-603	
S1B		DDA 2095 OFF	16.448	5168VXK0008-603	
S1B		DDA 2096 OFF	16.448	5169VXK0008-603	
S1B	IU	MDI 2305 OFF	16.456	3765S-IVB STAGE SEL	
S1B	IU	MDI 2307 OFF	16.456	3767RESET COMMAND	
	S4B	LDI 1844 OFF	16.460	4535SW SEL ZERO	
	IU	LDI 1099 ON	16.468	0514S-IVB STAGE SELECTOR	
	IU	MDI 0817 OFF	16.468	3517REG CONT BIT 2 VERIFY IN	
	IU	MDI 0819 OFF	16.468	3519REG CONT BIT 4 VERIFY IN	
	IU	MDI 0820 OFF	16.468	3520REG CONT BIT 5 VERIFY IN	
	IU	MDI 0821 OFF	16.468	3521REG CONT BIT 6 VERIFY IN	
	IU	MDI 0822 OFF	16.468	3522REG CONT BIT 7 VERIFY IN	
	IU	MDI 0823 OFF	16.468	3523REG CONT BIT 8 VERIFY IN	
	S4B	MDI 1844 OFF	16.468	3928SW SEL ZERO	
S1B		DDA 2084 OFF	16.468	5160VXK0007-603	
S1B		DDA 2088 ON	16.468	5164VXK0005-603	
	IU	LDI 1103 OFF	16.472	0517RESET COMMAND	
	IU	MDI 0816 OFF	16.472	3516REG CONT BIT 1 VERIFY IN	

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	IU	MDI 0818 OFF	16.472	3516REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	16.472	3517REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	16.472	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	16.472	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	16.472	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	16.472	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 0	16.476	0505BIT NO 1 VERIFY
	IU	LDI 1091 0	16.476	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	16.476	0507BIT NO 3 VERIFY
S1B		DDA 2098 ON	16.476	5171VXK0008-603
S1B		DDA 2099 ON	16.476	5172VXK0008-603
S1B		DDA 2100 0	16.476	5173VXK0008-603
	S4B	LDO 1844 ON	16.496	4535SW SEL ZERO
	S4B	LDO 1844 OFF	16.536	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	16.560	3768READ COMMAND
S1B S4B	IU	-2- 370 READ	16.560	
	IU	LDI 0983 ON	16.568	0463SW SEL READ
	IU	LDI 1102 ON	16.568	0516SW SEL READ
S1B		DDA 2029 ON	16.568	4080VK0128-404
S1B		DDA 2085 ON	16.568	5161VXK0006-603
S1B	IU	MDI 2305 OFF	16.588	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	16.588	3768READ COMMAND
S1B		DDA 2085 OFF	16.592	5161VXK0006-603
	IU	LDI 0983 OFF	16.596	0463SW SEL READ
	IU	LDI 1099 OFF	16.596	0514S-IVB STAGE SELECTOR
	IU	LDI 1114 OFF	16.596	0516SW SEL READ
	S4B	MDI 1844 ON	16.596	3928SW SEL ZERO
S1B		DDA 2098 OFF	16.600	5171VXK0008-603
	IU	MDI 0816 ON	16.600	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	16.600	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	16.600	3518REG CONT BIT 3 VERIFY IN
S1B		DDA 2099 OFF	16.600	5172VXK0008-603
	IU	LDI 1090 OFF	16.604	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	16.604	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	16.604	0507BIT NO 3 VERIFY
S1B		DDA 2098 OFF	16.604	5171VXK0008-603
S1B		DDA 2100 OFF	16.604	5173VXK0008-603
S1B		DDA 2029 OFF	16.608	4080VK0128-404
	S4B	LDO 1844 ON	16.652	4535SW SEL ZERO
S1B	IU	MDI 2306 ON	17.408	3766IU STAGE SEL
	IU	MDI 0817 OFF	17.412	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF	17.412	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1090 ON	17.416	0505BIT NO 1 VERIFY
	IU	LDI 1092 ON	17.416	0507BIT NO 3 VERIFY
	IU	LDI 1096 ON	17.416	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	17.416	0512BIT NO 8 VERIFY

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	IU	LDI 1098 ON	17.416	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	17.416	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	17.416	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF	17.416	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	17.416	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	17.416	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	17.416	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 ON	17.416	5163VXK0005-603
S1B		DDA 2093 ON	17.416	5166VXK0008-603
S1B		DDA 2094 ON	17.416	5167VXK0008-603
S1B		DDA 2095 ON	17.416	5168VXK0008-603
S1B		DDA 2098 ON	17.416	5171VXK0008-603
S1B		DDA 2100 ON	17.416	5173VXK0008-603
	IU	LDI 1091 ON	17.420	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	17.420	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	17.420	0510BIT NO 6 VERIFY
S1B	IU	MDI 2306 OFF	17.428	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	17.428	3767RESET COMMAND
S1B S4B	IU	-3- 020 RESET	17.428	
S1B		DDA 2084 ON	17.432	5160VXK0007-603
	IU	LDI 1098 OFF	17.436	0513IU STAGE SELECTOR
	IU	LDI 1103 ON	17.436	0517RESET COMMAND
	IU	MDI 0782 ON	17.436	3482SW SEL ZERO IND
	IU	MDI 0816 ON	17.436	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	17.436	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	17.436	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	17.436	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	17.436	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	17.436	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	17.436	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 OFF	17.436	5163VXK0005-603
	IU	LDI 1091 OFF	17.444	0506BIT NO 2 VERIFY
S1B	IU	MDI 2306 ON	17.444	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	17.444	3767RESET COMMAND
S1B		DDA 2086 ON	17.444	5162VXK0003-603
S1B		DDA 2093 OFF	17.444	5166VXK0008-603
S1B		DDA 2098 OFF	17.444	5171VXK0008-603
S1B		DDA 2099 OFF	17.444	5172VXK0008-603
S1B		DDA 2100 OFF	17.444	5173VXK0008-603
	IU	LDI 1090 OFF	17.448	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	17.448	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	17.448	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	17.448	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	17.448	0511BIT NO 7 VERIFY

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	IU	LDI 1097 OFF 17.448 0512BIT NO 8 VERIFY
S1B		DDA 2087 ON 17.448 5163VXK0005-603
S1B		DDA 2094 OFF 17.448 5167VXK0008-603
S1B		DDA 2095 OFF 17.448 5168VXK0008-603
	IU	LDI 1098 ON 17.452 0513IU STAGE SELECTOR
S1B		DDA 2084 OFF 17.452 5160VXK0007-603
	IU	LDI 1103 OFF 17.456 0517RESET COMMAND
	IU	MDI 0782 OFF 17.456 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 17.456 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF 17.456 3520REG CONT BIT 5 VERIFY IN
	IU	LDI 1091 ON 17.460 0506BIT NO 2 VERIFY
	IU	LDI 1094 ON 17.460 0509BIT NO 5 VERIFY
S1B		DDA 2086 OFF 17.460 5162VXK0003-603
S1B		DDA 2096 ON 17.460 5169VXK0008-603
S1B		DDA 2099 ON 17.460 5172VXK0008-603
S1B	IU	MDI 2308 ON 17.556 3768READ COMMAND
S1B S4B	IU	-3- 355 READ 17.556
S1B		DDA 2149 ON 17.564 4134VXK0004-603
	IU	LDI 0983 ON 17.568 0463SW SEL READ
	IU	LDI 1102 ON 17.568 0516SW SEL READ
S1B		DDA 2085 ON 17.568 5161VXK0006-603
S1B	IU	MDI 2306 OFF 17.592 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 17.592 3768READ COMMAND
	IU	LDI 0983 OFF 17.604 0463SW SEL READ
	IU	LDI 1098 OFF 17.604 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 17.604 0516SW SEL READ
S1B		DDA 2085 OFF 17.604 5161VXK0006-603
S1B		DDA 2087 OFF 17.604 5163VXK0005-603
	IU	MDI 0782 ON 17.608 3482SW SEL ZERO IND
	IU	MDI 0817 ON 17.608 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON 17.608 3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2149 OFF 17.608 4134VXK0004-603
S1B		DDA 2086 ON 17.608 5162VXK0003-603
S1B		DDA 2099 OFF 17.608 5172VXK0008-603
	IU	LDI 1091 OFF 17.612 0506BIT NO 2 VERIFY
S1B		DDA 2096 OFF 17.612 5169VXK0008-603
	IU	LDI 1094 OFF 17.616 0509BIT NO 5 VERIFY
S1B S4B	IU	CDC 01 01
S1B S4B	IU	CDC 01 02
S1B S4B	IU	CDC 01 03
S1B	IU	MDI 2306 ON 08.424 3766IU STAGE SEL
	IU	LDI 1090 ON 08.432 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 08.432 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 08.432 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 08.432 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 08.432 0509BIT NO 5 VERIFY

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	IU	LDI 1096 ON	08.432	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	08.432	0512BIT NO 8 VERIFY
	IU	LDI 1098 ON	08.432	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	08.432	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	08.432	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	08.432	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	08.432	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	08.432	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	08.432	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	08.432	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	08.432	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	08.432	5162VXK0003-603
S1B		DDA 2087 ON	08.432	5163VXK0005-603
S1B		DDA 2093 ON	08.432	5166VXK0008-603
S1B		DDA 2094 ON	08.432	5167VXK0008-603
S1B		DDA 2096 ON	08.432	5169VXK0008-603
S1B		DDA 2098 ON	08.432	5171VXK0008-603
S1B		DDA 2099 ON	08.432	5172VXK0008-603
S1B		DDA 2100 ON	08.432	5173VXK0008-603
S1B	IU	MDI 2306 OFF	08.444	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	08.444	3767RESET COMMAND
S1B S4B	IU	-3- 040 RESET	08.444	
	IU	LDI 1103 ON	08.448	0517RESET COMMAND
S1B		DDA 2084 ON	08.448	5160VXK0007-603
	IU	LDI 1098 OFF	08.452	0513IU STAGE SELECTOR
	IU	MDI 0782 ON	08.452	3482SW SEL ZERO IND
	IU	MDI 0816 ON	08.452	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	08.452	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	08.452	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	08.452	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	08.452	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	08.452	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	08.452	3523REG CONT BIT 8 VERIFY IN
T1		DDA 2087 OFF	08.452	5163VXK0005-603
	IU	LDI 1091 OFF	08.460	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	08.460	0507BIT NO 3 VERIFY
S1B	IU	MDI 2306 ON	08.460	3766IU STAGE SEL
T1	IU	MDI 2307 OFF	08.460	3767RESET COMMAND
S1B		DDA 2086 ON	08.460	5162VXK0003-603
S1B		DDA 2093 OFF	08.460	5166VXK0008-603
S1B		DDA 2096 OFF	08.460	5169VXK0008-603
S1B		DDA 2098 OFF	08.460	5171VXK0008-603
S1B		DDA 2099 OFF	08.460	5172VXK0008-603
S1B		DDA 2100 OFF	08.460	5173VXK0008-603
	IU	LDI 1090 OFF	08.464	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	08.464	0508BIT NO 4 VERIFY

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	IU	LDI 1094 OFF 08.464 0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF 08.464 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 08.464 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 08.464 5163VXK0005-603
S1B		DDA 2094 OFF 08.464 5167VXK0008-603
	IU	LDI 1098 ON 08.464 0513IU STAGE SELECTOR
S1B		DDA 2084 OFF 08.468 5160VXK0007-603
	IU	LDI 1103 OFF 08.472 0517RESET COMMAND
	IU	MDI 0782 OFF 08.472 3482SW SEL ZERO IND
	IU	MDI 0817 OFF 08.472 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 08.472 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF 08.472 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2093 ON 08.472 5166VXK0008-603
S1B		DDA 2094 ON 08.472 5172VXK0008-603
S1B		DDA 2100 ON 08.472 5173VXK0008-603
	IU	LDI 1090 ON 08.476 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 08.476 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 08.476 0508BIT NO 4 VERIFY
	IU	LDI 1095 ON 08.476 0510BIT NO 6 VERIFY
	IU	LDI 1097 ON 08.476 0512BIT NO 8 VERIFY
	IU	MDI 0818 ON 08.476 3518REG CONT BIT 3 VERIFY IN
S1B		DDA 2086 OFF 08.476 5162VXK0003-603
S1B		DDA 2095 ON 08.476 5168VXK0008-603
	IU	LDI 1090 OFF 08.488 0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF 08.488 0508BIT NO 4 VERIFY
	IU	LDI 1097 OFF 08.488 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 08.488 5166VXK0008-603
S1B		DDA 2100 OFF 08.488 5173VXK0008-603
S1B	IU	MDI 2308 ON 08.576 3768READ COMMAND
S1B 942	IU	-3- 08.576 3768READ COMMAND
S1B		DDA 2149 ON 08.580 4134VK0004-603
	IU	LDI 0983 ON 08.584 0463SW SEL READ
	IU	LDI 1102 ON 08.584 0516SW SEL READ
S1B		DDA 2085 ON 08.584 5161VXK0006-603
S1B	IU	MDI 2306 OFF 08.604 3766IU STAGE SEL
S1B	IU	MDI 2308 OFF 08.604 3768READ COMMAND
	IU	MDI 0817 ON 08.616 3517REG CONT BIT 2 VERIFY IN
S1B		DDA 2085 OFF 08.616 5161VXK0006-603
S1B		DDA 2087 OFF 08.616 5163VXK0005-603
	IU	LDI 0983 OFF 08.620 0463SW SEL READ
	IU	LDI 1098 OFF 08.620 0513IU STAGE SELECTOR
	IU	LDI 1102 OFF 08.620 0516SW SEL READ
	IU	MDI 0782 ON 08.620 3482SW SEL ZERO IND
	IU	MDI 0821 ON 08.620 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2149 OFF 08.624 4134VK0004-603
S1B		DDA 2086 ON 08.624 5162VXK0003-603

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S1B		DDA 2099 OFF 08.624 5172VXK0008-603
	IU	LDI 1091 OFF 08.624 0506BIT NO 2 VERIFY
S1B		DDA 2095 OFF 08.628 5168VXK0008-603
	IU	LDI 1095 OFF 08.632 0507BIT NO 3 VERIFY
S1B	IU	MDI 2305 ON 11.448 3765S-IVB STAGE SEL
S4B		MDI 1844 OFF 11.448 3928SW SEL ZERO
	IU	MDI 0816 OFF 11.452 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 11.452 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 11.452 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF 11.456 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 11.456 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 11.456 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON 11.456 5164VXK0005-603
S1B		DDA 2093 ON 11.456 5166VXK0008-603
S1B		DDA 2095 ON 11.456 5168VXK0008-603
S1B		DDA 2096 ON 11.456 5169VXK0008-603
S1B		DDA 2098 ON 11.456 5171VXK0008-603
S1B		DDA 2099 ON 11.456 5172VXK0008-603
S1B		DDA 2100 ON 11.456 5173VXK0008-603
	IU	LDI 1090 ON 11.460 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 11.460 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 11.460 0507BIT NO 3 VERIFY
	IU	LDI 1094 ON 11.460 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 11.460 0510BIT NO 6 VERIFY
	IU	LDI 1097 ON 11.460 0512BIT NO 8 VERIFY
	IU	LDI 1099 ON 11.460 0514S-IVB STAGE SELECTOR
S1B	IU	MDI 2305 OFF 11.476 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON 11.476 3767RESET COMMAND
S1B S4B	IU	-2- 110 RESET 11.476
S4B		MDI 1844 ON 11.480 3928SW SEL ZERO
S1B		DDA 2084 ON 11.480 5160VXK0007-603
	IU	LDI 1099 OFF 11.484 0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON 11.484 0517RESET COMMAND
	IU	MDI 0816 ON 11.484 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 11.484 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 11.484 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON 11.484 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 11.484 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON 11.484 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF 11.484 5164VXK0005-603
	IU	LDI 1091 OFF 11.492 0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF 11.492 5172VXK0008-603
	IU	LDI 1095 OFF 11.496 0507BIT NO 3 VERIFY
	IU	LDI 1092 OFF 11.496 0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF 11.496 0509BIT NO 5 VERIFY

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	IU		LDI 1095 OFF 11.496 0510BIT NO 6 VERIFY
	IU		LDI 1097 OFF 11.496 0512BIT NO 8 VERIFY
S1B			DDA 2093 OFF 11.496 5166VXK0008-603
S1B			DDA 2095 OFF 11.496 5168VXK0008-603
S1B			DDA 2096 OFF 11.496 5169VXK0008-603
S1B			DDA 2100 OFF 11.496 5171VXK0008-603
S4B			LDO 1844 OFF 11.500 4535SW SEL ZERO
S1B	IU		MDI 2307 OFF 11.504 3767RESET COMMAND
S1B	IU		MDI 2305 ON 11.508 3765S-IVR STAGE SEL
	IU		LDI 1099 ON 11.516 0514S-IVR STAGE SELECTOR
S4B			MDI 1844 OFF 11.516 3928SW SEL ZERO
S1B			DDA 2088 ON 11.516 5164VXK0005-603
	IU		LDI 1103 OFF 11.520 0517RESET COMMAND
	IU		MDI 0816 OFF 11.520 3516REG CONT BIT 1 VERIFY IN
	IU		MDI 0817 OFF 11.520 3517REG CONT BIT 2 VERIFY IN
	IU		MDI 0819 OFF 11.520 3519REG CONT BIT 4 VERIFY IN
	IU		MDI 0822 OFF 11.520 3522REG CONT BIT 7 VERIFY IN
S1B			DDA 2084 OFF 11.520 5160VXK0007-603
	IU		LDI 1091 ON 11.524 0506BIT NO 2 VERIFY
	IU		LDI 1093 ON 11.524 0508BIT NO 4 VERIFY
	IU		LDI 1096 ON 11.524 0511BIT NO 7 VERIFY
	IU		MDI 0816 ON 11.524 3516REG CONT BIT 1 VERIFY IN
S1B			DDA 2094 ON 11.524 5167VXK0008-603
S1B			DDA 2099 ON 11.524 5172VXK0008-603
S4B			LDO 1844 ON 11.536 4535SW SEL ZERO
S1B	IU		MDI 2308 ON 11.576 3768READ COMMAND
S1B S4B	IU	-2-	265 READ 11.576
S4B			LDO 1844 OFF 11.576 4535SW SEL ZERO
	IU		LDI 0983 ON 11.584 0463SW SEL READ
	IU		LDI 1102 ON 11.584 0516SW SEL READ
S1B			DDA 2029 ON 11.584 4080VK0128-404
S1B			DDA 2085 ON 11.584 5161VXK0006-603
S1B	IU		MDI 2305 OFF 11.604 3765S-IVR STAGE SEL
S1B	IU		MDI 2308 OFF 11.604 3768READ COMMAND
S1B			DDA 2029 OFF 11.604 4080VK0128-404
	IU		MDI 0817 ON 11.616 3517REG CONT BIT 2 VERIFY IN
	IU		MDI 0819 ON 11.616 3519REG CONT BIT 4 VERIFY IN
S4B			MDI 1844 ON 11.616 3928SW SEL ZERO
S1B			DDA 2085 OFF 11.616 5161VXK0006-603
S1B			DDA 2088 OFF 11.616 5164VXK0005-603
	IU		LDI 0983 OFF 11.620 0463SW SEL READ
	IU		LDI 1099 OFF 11.620 0514S-IVR STAGE SELECTOR
	IU		LDI 1102 OFF 11.620 0516SW SEL READ
	IU		MDI 0822 ON 11.620 3522REG CONT BIT 7 VERIFY IN
S1B			DDA 2099 OFF 11.624 5172VXK0008-603
	IU		LDI 1091 OFF 11.628 0506BIT NO 2 VERIFY

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	IU	LDI 1093 OFF 11.628 0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF 11.628 0511BIT NO 7 VERIFY
S18		DDA 2094 OFF 11.628 5167VXK0008-603
S18		DDA 2029 ON 11.684 4080VK0128-404
	S4B	LDO 1844 ON 11.708 4535SW SEL ZERO
S18		DDA 2030 OFF 11.744 4081VK0128-404
S18		DDA 2029 OFF 11.772 4080VK0128-404
S18		DDA 2029 ON 11.936 4080VK0128-404
S18		DDA 2029 OFF 12.024 4080VK0128-404
S18		DDA 2030 OFF 12.024 4081VK0128-404
S18	IU	MDI 2305 ON 12.424 3765S-IVB STAGE SEL
	S4B	MDI 1844 OFF 12.424 3928SW SEL ZERO
	IU	MDI 0817 OFF 12.428 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 12.428 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF 12.428 3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1093 ON 12.432 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 12.432 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 12.432 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 12.432 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 12.432 0512BIT NO 8 VERIFY
	IU	LDI 1099 ON 12.432 0514S-IVB STAGE SELECTOR
	IU	MDI 0820 OFF 12.432 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 12.432 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 12.432 3523REG CONT BIT 8 VERIFY IN
S18		DDA 2093 ON 12.432 5166VXK0008-603
S18		DDA 2094 ON 12.432 5167VXK0008-603
S18		DDA 2095 ON 12.432 5168VXK0008-603
S18		DDA 2096 ON 12.432 5169VXK0008-603
S18		DDA 2099 ON 12.432 5172VXK0008-603
S18	IU	MDI 2305 OFF 12.444 3765S-IVB STAGE SEL
S18	IU	MDI 2307 ON 12.444 3767RESET COMMAND
S18 S4B	IU	-2- 005 RESEI 12.444
	IU	LDI 1103 ON 12.448 0517RESET COMMAND
	S4B	MDI 1844 ON 12.448 3928SW SEL ZERO
S18		DDA 2084 ON 12.448 5160VXK0007-603
	IU	LDI 1099 OFF 12.452 0514S-IVB STAGE SELECTOR
	IU	MDI 0817 ON 12.452 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 12.452 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 12.452 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 12.452 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 12.452 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 12.452 3523REG CONT BIT 8 VERIFY IN
(1)		DDA 2088 OFF 12.452 5164VXK0005-603
	IU	LDI 1091 OFF 12.460 0506BIT NO 2 VERIFY

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	IU	LDI 1097 OFF 12.460 0512BIT NO 8 VERIFY
S18		DDA 2093 OFF 12.460 5166VXK0008-603
S18		DDA 2094 OFF 12.460 5167VXK0008-603
S18		DDA 2095 OFF 12.460 5168VXK0008-603
S18		DDA 2099 OFF 12.460 5172VXK0008-603
	IU	LDI 1093 OFF 12.464 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 12.464 0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF 12.464 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 12.464 0511BIT NO 7 VERIFY
S18		DDA 2095 OFF 12.464 5168VXK0008-603
S48		LDO 1844 OFF 12.472 4535SW SEL ZERO
S18	IU	MDI 2305 ON 12.476 3765S-IVR STAGE SEL
S18	IU	MDI 2307 OFF 12.476 3767RESET COMMAND
S18		DDA 2088 ON 12.480 5164VXK0005-603
	IU	LDI 1099 ON 12.484 0514S-IVR STAGE SELECTOR
S18		DDA 2084 OFF 12.484 5160VXK0007-603
	IU	LDI 1103 OFF 12.488 0517RESET COMMAND
	IU	MDI 0817 OFF 12.488 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 12.488 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 12.488 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 12.488 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 12.488 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 12.488 3523REG CONT BIT 8 VERIFY IN
S48		MDI 1844 OFF 12.488 3928SW SEL ZERO
S18		DDA 2093 ON 12.488 5166VXK0008-603
S18		DDA 2094 ON 12.488 5167VXK0008-603
S18		DDA 2099 ON 12.488 5172VXK0008-603
	IU	LDI 1091 ON 12.492 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 12.492 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 12.492 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 12.492 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 12.492 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 12.492 0512BIT NO 8 VERIFY
	IU	MDI 0816 OFF 12.492 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF 12.492 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 12.492 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 12.492 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 12.492 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 12.492 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 12.492 3523REG CONT BIT 8 VERIFY IN
S18		DDA 2095 ON 12.492 5168VXK0008-603
S18		DDA 2096 ON 12.492 5169VXK0008-603
	IU	LDI 1090 ON 12.500 0505BIT NO 1 VERIFY
	IU	LDI 1092 ON 12.500 0507BIT NO 3 VERIFY
S18		DDA 2098 ON 12.500 5171VXK0008-603
S18		DDA 2100 ON 12.500 5173VXK0008-603

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	IU	LDI 1093 OFF 12.504 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 12.504 0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF 12.504 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 12.504 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 12.504 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 12.504 5166VXK0008-603
S1B		DDA 2094 OFF 12.504 5167VXK0008-603
S1B		DDA 2095 OFF 12.504 5168VXK0008-603
S1B		DDA 2096 OFF 12.504 5169VXK0008-603
S4B		LDO 1844 ON 12.508 4535SW SEL ZERO
S4B		LDO 1844 OFF 12.548 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 12.576 3768READ COMMAND
S1B	S4B	-2- 370 READ 12.576
S1B		DDA 2085 ON 12.580 5161VXK0006-603
	IU	LDI 0983 ON 12.584 0463SW SEL READ
	IU	LDI 1102 ON 12.584 0516SW SEL READ
S1B		DDA 2029 OFF 12.584 4080VK0128-404
S1B	IU	MDI 2305 OFF 12.604 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 12.604 3768READ COMMAND
	IU	MDI 0816 ON 12.616 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 12.616 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 12.616 3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844 ON 12.616 3928SW SEL ZERO
S1B		DDA 2085 OFF 12.616 5161VXK0006-603
S1B		DDA 2088 OFF 12.616 5164VXK0005-603
	IU	LDI 0983 OFF 12.620 0463SW SEL READ
	IU	LDI 1099 OFF 12.620 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 12.620 0516SW SEL READ
	IU	LDI 1091 OFF 12.624 0506BIT NO 2 VERIFY
S1B		DDA 2029 OFF 12.624 4080VK0128-404
S1B		DDA 2099 OFF 12.624 5172VXK0008-603
	IU	LDI 1090 OFF 12.628 0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF 12.628 0507BIT NO 3 VERIFY
S1B		DDA 2098 OFF 12.628 5171VXK0008-603
S1B		DDA 2100 OFF 12.628 5173VXK0008-603
S4B		LDO 1844 OFF 12.664 4535SW SEL ZERO
S1B	IU	MDI 2306 ON 13.424 3766IU STAGE SEL
	IU	LDI 1091 ON 13.432 0506BIT NO 2 VERIFY
	IU	LDI 1095 OFF 13.432 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 13.432 0513IU STAGE SELECTOR
	IU	MDI 0782 OFF 13.432 3482SW SEL ZERO IND
	IU	MDI 0816 OFF 13.432 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 13.432 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 13.432 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 13.432 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF 13.432 3521REG CONT BIT 6 VERIFY IN

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	IU	MDI 0822 OFF	13.432	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	13.432	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	13.432	5162VXK0003-603
S1B		DDA 2087 ON	13.432	5163VXK0005-603
S1B		DDA 2095 ON	13.432	5168VXK0008-603
S1B		DDA 2099 ON	13.432	5172VXK0008-603
	IU	LDI 1090 ON	13.440	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	13.440	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	13.440	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	13.440	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	13.440	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	13.440	5166VXK0008-603
S1B		DDA 2094 ON	13.440	5167VXK0008-603
S1B		DDA 2098 ON	13.440	5171VXK0008-603
S1B		DDA 2100 ON	13.440	5173VXK0008-603
S1B	IU	MDI 2306 OFF	13.468	3766IU STAGE SEL
S1B	IU	MDI 2307 ON	13.468	3767RESET COMMAND
S1B S4B	IU	-3- 020 RESET	13.468	
S1B		DDA 2084 ON	13.472	5160VXK0007-603
	IU	LDI 1098 OFF	13.476	0513IU STAGE SELECTOR
	IU	LDI 1103 ON	13.476	0517RESET COMMAND
	IU	MDI 0782 ON	13.476	3482SW SEL ZERO IND
	IU	MDI 0816 ON	13.476	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	13.476	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	13.476	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	13.476	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	13.476	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	13.476	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	13.476	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 OFF	13.476	5163VXK0005-603
	IU	LDI 1091 OFF	13.484	0506BIT NO 2 VERIFY
S1B		DDA 2093 OFF	13.484	5166VXK0008-603
S1B		DDA 2098 OFF	13.484	5171VXK0008-603
S1B		DDA 2099 OFF	13.484	5172VXK0008-603
S1B		DDA 2100 OFF	13.484	5173VXK0008-603
	IU	LDI 1090 OFF	13.488	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	13.488	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	13.488	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	13.488	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	13.488	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	13.488	0512BIT NO 8 VERIFY
S1B		DDA 2094 OFF	13.488	5167VXK0008-603
S1B		DDA 2095 OFF	13.488	5168VXK0008-603
S1B	IU	MDI 2306 ON	13.496	3766IU STAGE SEL
S1B	IU	MDI 2307 OFF	13.496	3767RESET COMMAND

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	IU	LDI 1098 ON	13.508	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	13.508	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	13.508	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	13.508	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2084 OFF	13.508	5160VXK0007-603
S1B		DDA 2087 ON	13.508	5163VXK0005-603
	IU	LDI 1103 OFF	13.512	0517RESET COMMAND
	IU	LDI 1091 ON	13.516	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	13.516	0509BIT NO 5 VERIFY
S1B		DDA 2086 OFF	13.516	5162VXK0003-603
S1B		DDA 2096 ON	13.516	5169VXK0008-603
S1B		DDA 2099 ON	13.516	5172VXK0006-603
S1B	IU	MDI 2308 ON	13.576	3768READ COMMAND
S1B S4B	IU	-3- 355 READ	13.576	
S1B		DDA 2149 ON	13.580	4134VK0004-603
S1B		DDA 2085 ON	13.580	5161VXK0006-603
	IU	LDI 0983 ON	13.584	0463SW SEL READ
	IU	LDI 1102 ON	13.584	0516SW SEL READ
S1B	IU	MDI 2306 OFF	13.608	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	13.608	3768READ COMMAND
S1B		DDA 2085 OFF	13.616	5161VXK0006-603
S1B		DDA 2087 OFF	13.616	5163VXK0005-603
	IU	LDI 0983 OFF	13.620	0463SW SEL READ
	IU	LDI 1098 OFF	13.620	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	13.620	0516SW SEL READ
	IU	LDI 1091 OFF	13.624	0506BIT NO 2 VERIFY
	IU	MDI 0782 ON	13.624	3482SW SEL ZERO IND
	IU	MDI 0817 ON	13.624	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	13.624	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2149 OFF	13.624	4134VK0004-603
S1B		DDA 2086 ON	13.624	5162VXK0003-603
S1B		DDA 2099 OFF	13.624	5172VXK0006-603
	IU	LDI 1094 OFF	13.628	0509BIT NO 5 VERIFY
S1B		DDA 2096 OFF	13.628	5169VXK0008-603
S1B S4B	IU	CDC 01 04		
S1B S4B	IU	CDC 01 05		
S1B S4B	IU	CDC 01 06		
S1B S4B	IU	CDC 01 07		
S1B S4B	IU	CDC 01 08		
S1B S4B	IU	CDC 01 09		
S1B S4B	IU	CDC 01 10		
S1B S4B	IU	CDC 01 11		
S1B S4B	IU	CDC 01 12		
S1B S4B	IU	CDC 01 13		
S1B S4B	IU	CDC 01 14		
S1B S4B	IU	CDC 01 15		

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S1B	S4B	IU	CDC	01	16	
S1B	S4B	IU	CDC	01	17	
S1B	S4B	IU	CDC	01	18	
S1B	S4B	IU	CDC	01	19	
S1B	S4B	IU	CDC	01	20	
S1B	S4B	IU	CDC	01	21	
S1B	S4B	IU	CDC	01	22	
S1B	S4B	IU	CDC	01	23	
S1B	S4B	IU	CDC	01	24	
S1B	S4B	IU	CDC	01	25	
S1B	S4B	IU	CDC	01	26	
S1B	S4B	IU	CDC	01	27	
S1B	S4B	IU	CDC	01	28	
S1B	S4B	IU	CDC	01	29	
S1B			LDI	0965	ON	52.280 0420ADDRESS VERI PULSE NO. 2
S1B			DDA	2019	ON	52.280 4070VJ0070-603
S1B			LDI	0964	ON	52.288 0419ADDRESS VERI PULSE NO. 1
S1B			DDA	2020	ON	52.288 4071VJ0069-603
S1B			LDI	0966	ON	52.324 0421COMPT RESET PULSE NO. 1
S1B			LDI	0967	ON	52.324 0422COMPT RESET PULSE NO. 2
S1B			DDA	2159	ON	52.324 4136VJ0072-603
S1B			DDA	2160	ON	52.324 4137VJ0071-603
S1B			LDI	0965	OFF	52.340 0420ADDRESS VERI PULSE NO. 2
S1B			DDA	2019	OFF	52.340 4070VJ0070-603
S1B			LDI	0964	OFF	52.348 0419ADDRESS VERI PULSE NO. 1
S1B			DDA	2020	OFF	52.348 4071VJ0069-603
	IU		LDO	0735	ON	52.356 4860MODE CODE 3 IND
S1B			LDI	0967	OFF	52.376 0422COMPT RESET PULSE NO. 2
S1B			DDA	2159	OFF	52.376 4136VJ0072-603
S1B			LDI	0966	OFF	52.384 0421COMPT RESET PULSE NO. 1
S1B			DDA	2160	OFF	52.384 4137VJ0071-603
	IU		LDO	0735	OFF	52.396 4860MODE CODE 3 IND
S1B			LDI	0964	ON	52.756 0419ADDRESS VERI PULSE NO. 1
S1B			LDI	0965	0	52.756 0420ADDRESS VERI PULSE NO. 2
S1B			DDA	2019	ON	52.756 4070VJ0070-603
S1B			DDA	2020	ON	52.756 4071VJ0069-603
S1B			LDI	0966	ON	52.772 0421COMPT RESET PULSE NO. 1
S1B			LDI	0967	ON	52.772 0422COMPT RESET PULSE NO. 2
S1B			DDA	2159	ON	52.772 4136VJ0072-603
S1B			DDA	2160	ON	52.772 4137VJ0071-603
	IU		LDO	0735	ON	52.804 4860MODE CODE 3 IND
S1B			LDI	0965	OFF	52.808 0420ADDRESS VERI PULSE NO. 2
S1B			DDA	2019	OFF	52.808 4070VJ0070-603
S1B			LDI	0964	OFF	52.824 0419ADDRESS VERI PULSE NO. 1
S1B			LDI	0967	OFF	52.824 0422COMPT RESET PULSE NO. 2
S1B			DDA	2020	OFF	52.824 4071VJ0069-603

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S18		DDA 2159 OFF 52.824 4136VJ0072-603
S18		DDA 2160 OFF 52.832 4137VJ0071-603
S18		LDI 0966 OFF 52.836 0421COMPT RESET PULSE NO. 1
	IU	LDO 0735 OFF 52.848 4860MODE CODE 3 IND
S18		LDI 0964 ON 53.096 0419ADDRESS VERI PULSE NO. 1
S18		LDI 0965 ON 53.096 0420ADDRESS VERI PULSE NO. 2
S18		DDA 2019 ON 53.096 4070VJ0070-603
S18		DDA 2020 ON 53.096 4071VJ0069-603
S18		LDI 0966 ON 53.132 0421COMPT RESET PULSE NO. 1
S18		LDI 0967 ON 53.132 0422COMPT RESET PULSE NO. 2
S18		DDA 2159 ON 53.132 4136VJ0072-603
S18		DDA 2160 ON 53.132 4137VJ0071-603
S18		LDI 0965 OFF 53.148 0420ADDRESS VERI PULSE NO. 2
S18		DDA 2159 OFF 53.148 4136VJ0072-603
	IU	LDO 0735 ON 53.160 4860MODE CODE 3 IND
S18		LDI 0964 OFF 53.164 0419ADDRESS VERI PULSE NO. 1
S18		DDA 2020 OFF 53.164 4071VJ0069-603
S18		LDI 0967 OFF 53.184 0422COMPT RESET PULSE NO. 2
S18		DDA 2159 OFF 53.184 4136VJ0072-603
S18		LDI 0966 OFF 53.192 0421COMPT RESET PULSE NO. 1
S18		DDA 2160 OFF 53.192 4137VJ0071-603
	IU	LDO 0735 OFF 53.200 4860MODE CODE 3 IND
S18		DDA 2019 ON 53.504 4070VJ0070-603
S18		DDA 2020 ON 53.504 4071VJ0069-603
S18		LDI 0964 ON 53.508 0419ADDRESS VERI PULSE NO. 1
S18		LDI 0965 ON 53.508 0420ADDRESS VERI PULSE NO. 2
S18		LDI 0967 ON 53.540 0422COMPT RESET PULSE NO. 2
S18		DDA 2159 ON 53.540 4136VJ0072-603
S18		LDI 0966 ON 53.548 0421COMPT RESET PULSE NO. 1
S18		DDA 2160 ON 53.548 4137VJ0071-603
S18		DDA 2019 OFF 53.556 4070VJ0070-603
S18		LDI 0965 OFF 53.560 0420ADDRESS VERI PULSE NO. 2
S18		LDI 0964 OFF 53.572 0419ADDRESS VERI PULSE NO. 1
S18		DDA 2020 OFF 53.572 4071VJ0069-603
	IU	LDO 0735 ON 53.576 4860MODE CODE 3 IND
S18		LDI 0966 OFF 53.600 0421COMPT RESET PULSE NO. 1
S18		LDI 0967 OFF 53.600 0422COMPT RESET PULSE NO. 2
S18		DDA 2159 OFF 53.600 4136VJ0072-603
S18		DDA 2160 OFF 53.600 4137VJ0071-603
S18		LDI 0965 ON 53.864 0420ADDRESS VERI PULSE NO. 2
S18		DDA 2019 ON 53.864 4070VJ0070-603
S18		LDI 0964 ON 53.872 0419ADDRESS VERI PULSE NO. 1
S18		DDA 2020 ON 53.872 4071VJ0069-603
S18		LDI 0967 ON 53.880 0422COMPT RESET PULSE NO. 2
S18		DDA 2159 ON 53.880 4136VJ0072-603
S18		LDI 0966 ON 53.888 0421COMPT RESET PULSE NO. 1

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S1B		DDA 2160 ON	53.888	4137VJ0071-603
S1B		LDI 0965 OFF	53.924	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 OFF	53.924	4070VJ0070-603
S1B		LDI 0964 OFF	53.932	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	53.932	4071VJ0069-603
S1B		DDA 2159 OFF	53.940	4136VJ0072-603
S1B		DDA 2160 OFF	53.940	4137VJ0071-603
S1B		LDI 0966 OFF	53.944	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	53.944	0422COMPT RESET PULSE NO. 2
	IU	LDO 0735 OFF	54.124	4860MODE CODE 3 IND
S1B		LDI 0964 ON	54.172	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON	54.172	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON	54.172	4070VJ0070-603
S1B		DDA 2020 ON	54.172	4071VJ0069-603
S1B		LDI 0967 ON	54.188	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	54.188	4136VJ0072-603
S1B		DDA 2160 ON	54.196	4137VJ0071-603
S1B		LDI 0966 ON	54.200	0421COMPT RESET PULSE NO. 1
	IU	LDO 0735 ON	54.220	4860MODE CODE 3 IND
S1B		LDI 0965 OFF	54.224	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 OFF	54.224	4070VJ0070-603
S1B		LDI 0964 OFF	54.240	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	54.240	4071VJ0069-603
S1B		DDA 2159 OFF	54.248	4136VJ0072-603
S1B		LDI 0966 OFF	54.252	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	54.252	0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 OFF	54.252	4137VJ0071-603
	IU	LDO 0735 OFF	54.296	4860MODE CODE 3 IND
S1B		LDI 0964 ON	54.956	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON	54.956	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON	54.956	4070VJ0070-603
S1B		DDA 2020 ON	54.956	4071VJ0069-603
S1B		LDI 0967 ON	54.980	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	54.980	4136VJ0072-603
S1B		LDI 0966 ON	54.988	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	54.988	4137VJ0071-603
	IU	LDO 0735 ON	55.000	4860MODE CODE 3 IND
S1B		LDI 0965 OFF	55.008	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 OFF	55.008	4070VJ0070-603
S1B		LDI 0964 OFF	55.024	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	55.024	4071VJ0069-603
S1B		DDA 2159 OFF	55.040	4136VJ0072-603
S1B		DDA 2160 OFF	55.040	4137VJ0071-603
S1B		LDI 0966 OFF	55.044	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	55.044	0422COMPT RESET PULSE NO. 2
	IU	LDO 0735 OFF	55.112	4860MODE CODE 3 IND

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S1B S4B IU	CDC 01 30	
S1B	LDI 0964 ON	52.280 0419ADDRESS VERI PULSE NO. 1
S1B	LDI 0965 ON	52.280 0420ADDRESS VERI PULSE NO. 2
S1B	DDA 2019 ON	52.280 4070VJ0070-603
S1B	DDA 2020 ON	52.280 4071VJ0069-603
S1B	DDA 2159 ON	52.312 4136VJ0072-603
S1B	LDI 0967 ON	52.316 0422COMPT RESET PULSE NO. 2
S1B	DDA 2160 ON	52.320 4137VJ0071-603
S1B	LDI 0966 ON	52.324 0421COMPT RESET PULSE NO. 1
S1B	LDI 0965 OFF	52.332 0420ADDRESS VERI PULSE NO. 2
S1B	DDA 2019 OFF	52.332 4070VJ0070-603
S1B	LDI 0964 OFF	52.348 0419ADDRESS VERI PULSE NO. 1
S1B	DDA 2020 OFF	52.348 4071VJ0069-603
IU	LDO 0735 ON	52.360 4860MODE CODE 3 IND
S1B	LDI 0966 OFF	52.376 0421COMPT RESET PULSE NO. 1
S1B	LDI 0967 OFF	52.376 0422COMPT RESET PULSE NO. 2
S1B	DDA 2159 OFF	52.376 4136VJ0072-603
S1B	DDA 2160 OFF	52.376 4137VJ0071-603
IU	LDO 0735 OFF	52.400 4860MODE CODE 3 IND
S1B	LDI 0964 ON	52.664 0419ADDRESS VERI PULSE NO. 1
S1B	LDI 0965 ON	52.664 0420ADDRESS VERI PULSE NO. 2
S1B	DDA 2019 ON	52.664 4070VJ0070-603
S1B	DDA 2020 ON	52.664 4071VJ0069-603
S1B	LDI 0966 ON	52.680 0421COMPT RESET PULSE NO. 1
S1B	LDI 0967 ON	52.680 0422COMPT RESET PULSE NO. 2
S1B	DDA 2159 ON	52.680 4136VJ0072-603
S1B	DDA 2160 ON	52.680 4137VJ0071-603
IU	LDO 0735 ON	52.708 4860MODE CODE 3 IND
S1B	LDI 0965 OFF	52.716 0420ADDRESS VERI PULSE NO. 2
S1B	DDA 2019 OFF	52.716 4070VJ0070-603
S1B	LDI 0964 OFF	52.732 0419ADDRESS VERI PULSE NO. 1
S1B	LDI 0967 OFF	52.732 0422COMPT RESET PULSE NO. 2
S1B	DDA 2020 OFF	52.732 4071VJ0069-603
S1B	DDA 2159 OFF	52.732 4136VJ0072-603
S1B	DDA 2160 OFF	52.740 4137VJ0071-603
S1B	LDI 0966 OFF	52.744 0421COMPT RESET PULSE NO. 1
S1B	LDI 0964 ON	53.004 0419ADDRESS VERI PULSE NO. 1
S1B	LDI 0965 ON	53.004 0420ADDRESS VERI PULSE NO. 2
S1B	DDA 2019 ON	53.004 4070VJ0070-603
S1B	DDA 2020 ON	53.004 4071VJ0069-603
S1B	LDI 0966 ON	53.040 0421COMPT RESET PULSE NO. 1
S1B	LDI 0967 ON	53.040 0422COMPT RESET PULSE NO. 2
S1B	DDA 2159 ON	53.040 4136VJ0072-603
S1B	DDA 2160 ON	53.040 4137VJ0071-603
S1B	LDI 0965 OFF	53.056 0420ADDRESS VERI PULSE NO. 2
S1B	DDA 2019 OFF	53.056 4070VJ0070-603

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S1B		LDI 0964 OFF 53.072 0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF 53.072 4071VJ0069-603
S1B		LDI 0967 OFF 53.092 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 53.092 4136VJ0072-603
S1B		LDI 0966 OFF 53.100 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 53.100 4137VJ0071-603
	IU	LDO 0735 OFF 53.112 4860MODE CODE 3 IND
S1B		LDI 0965 ON 53.348 0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON 53.348 4070VJ0070-603
S1B		LDI 0964 ON 53.356 0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 ON 53.356 4071VJ0069-603
S1B		LDI 0967 ON 53.372 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 53.372 4136VJ0072-603
S1B		LDI 0966 ON 53.380 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON 53.380 4137VJ0071-603
S1B		LDI 0965 OFF 53.408 0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 OFF 53.408 4070VJ0070-603
S1B		DDA 2020 OFF 53.412 4071VJ0069-603
	IU	LDO 0735 ON 53.412 4860MODE CODE 3 IND
S1B		LDI 0964 OFF 53.416 0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0966 OFF 53.432 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF 53.432 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 53.432 4136VJ0072-603
S1B		DDA 2160 OFF 53.432 4137VJ0071-603
	IU	LDO 0735 OFF 53.484 4860MODE CODE 3 IND
S1B		DDA 2020 ON 53.736 4071VJ0069-603
S1B		LDI 0964 ON 53.740 0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON 53.740 0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON 53.740 4070VJ0070-603
S1B		LDI 0966 ON 53.756 0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON 53.756 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON 53.756 4136VJ0072-603
S1B		DDA 2160 ON 53.756 4137VJ0071-603
	IU	LDO 0735 ON 53.784 4860MODE CODE 3 IND
S1B		DDA 2019 OFF 53.788 4070VJ0070-603
S1B		LDI 0965 OFF 53.792 0420ADDRESS VERI PULSE NO. 2
S1B		LDI 0964 OFF 53.804 0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF 53.804 4071VJ0069-603
S1B		LDI 0967 OFF 53.808 0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF 53.808 4136VJ0072-603
S1B		LDI 0966 OFF 53.816 0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF 53.816 4137VJ0071-603
S1B		LDI 0964 ON 54.080 0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON 54.080 0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON 54.080 4070VJ0070-603
S1B		DDA 2020 ON 54.080 4071VJ0069-603

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S1B		LDI 0967 ON	54.096	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	54.096	4136VJ0072-603
S1B		LDI 0966 ON	54.104	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 ON	54.104	4137VJ0071-603
	IU	LDO 0735 OFF	54.116	4860MODE CODE 3 IND
S1B		LDI 0965 OFF	54.132	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 OFF	54.132	4070VJ0070-603
S1B		LDI 0964 OFF	54.148	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	54.148	4071VJ0069-603
S1B		DDA 2159 OFF	54.156	4136VJ0072-603
S1B		DDA 2160 OFF	54.156	4137VJ0071-603
	IU	LDO 0735 ON	54.156	4860MODE CODE 3 IND
S1B		LDI 0966 OFF	54.160	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	54.160	0422COMPT RESET PULSE NO. 2
	IU	LDO 0735 OFF	54.196	4860MODE CODE 3 IND
S1B		LDI 0964 ON	54.464	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON	54.464	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON	54.464	4070VJ0070-603
S1B		DDA 2020 ON	54.464	4071VJ0069-603
S1B		LDI 0966 ON	54.488	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	54.488	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	54.488	4136VJ0072-603
S1B		DDA 2160 ON	54.488	4137VJ0071-603
S1B		LDI 0965 OFF	54.516	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 OFF	54.516	4070VJ0070-603
	IU	LDO 0735 ON	54.524	4860MODE CODE 3 IND
S1B		DDA 2020 OFF	54.528	4071VJ0069-603
S1B		LDI 0964 OFF	54.532	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0967 OFF	54.540	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	54.540	4136VJ0072-603
S1B		DDA 2160 OFF	54.548	4137VJ0071-603
S1B		LDI 0966 OFF	54.552	0421COMPT RESET PULSE NO. 1
	IU	LDO 0735 OFF	54.560	4860MODE CODE 3 IND
	IU	LDO 0735 ON	54.600	4860MODE CODE 3 IND
	IU	LDO 0735 OFF	55.112	4860MODE CODE 3 IND
S1B S4B	IU	CDC 01 01		
S1B S4B	IU	CDC 01 32		
S1B	IU	MDI 2305 ON	31.072	3765S-IVB STAGE SEL
	S4B	MDI 1844 OFF	31.076	3928SW SEL ZERO
	IU	MDI 0817 OFF	31.080	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	31.080	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	31.080	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	31.080	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	31.080	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	31.080	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	31.080	5164VXK0005-603

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S1B		DDA 2098 ON	31.080	5171VXK0008-603
S1B		DDA 2099 ON	31.080	5172VXK0008-603
S1B		DDA 2100 ON	31.080	5173VXK0008-603
	IU	LDI 1090 ON	31.084	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	31.084	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	31.084	0507BIT NO 3 VERIFY
	IU	LDI 1099 ON	31.084	0514S-IVB STAGE SELECTOR
S1B		DDA 2093 ON	31.088	5166VXK0008-603
S1B		DDA 2094 ON	31.088	5167VXK0008-603
S1B		DDA 2095 ON	31.088	5168VXK0008-603
	IU	LDI 1093 ON	31.092	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	31.092	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	31.092	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	31.092	0512BIT NO 8 VERIFY
S1B		DDA 2100 OFF	31.092	5173VXK0008-603
	IU	LDI 1090 OFF	31.096	0505BIT NO 1 VERIFY
S4B		LDO 1844 OFF	31.136	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	31.224	3768READ COMMAND
S1B S4B	IU	-2- 041 READ	31.224	
	IU	LDI 0983 ON	31.232	0463SW SEL READ
	IU	LDI 1102 ON	31.232	0516SW SEL READ
S4B		MDI 1785 ON	31.232	3815ENG CONT PWR ON
S1B		DDA 2085 ON	31.232	5161VXK0006-603
S1B		DDA 2029 ON	31.236	4080VK0128-404
S1B		DDA 3006 ON	31.240	5343VK0008-401
S4B		MDO 1722 ON	31.244	2222ENGINE STG LOGIC BYP ON
S4B		MDO 1729 ON	31.244	2228DIRECT VENT BYPASS ON
S4B		MDO 1730 ON	31.244	2229PWR XFER BYPASS ON
S4B		MDO 1732 ON	31.244	2230ORDNANCE SYS BYPASS ON
S4B		MDO 1733 ON	31.244	2231APS SYSTEM BYPASS ON
S4B		MDI 1805 ON	31.244	3835ENG READY
S4B		MDI 1933 ON	31.244	3942ENGINE READY
S4B		MDI 1947 ON	31.244	3953S-IVB PREP COMPLETE
S4B		MDI 1966 ON	31.244	3967READY FOR LAUNCH
S1B		DDA 3040 ON	31.244	5354VXK0013-401
S1B		MDO 1317 ON	31.248	2154S-IVB SYSTEM READY BYPAS
S1B		MDI 0043 ON	31.248	2861S-IVB SYSTEMS READY IND
S1B		MDI 0078 ON	31.248	2958SIVB READY TO LAUNCH IND
S1B		MDI 0463 ON	31.248	3276S-IVB READY FOR LAUNCH
S1B	IU	MDI 2305 OFF	31.252	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	31.252	3768READ COMMAND
S1B		DDA 3047 ON	31.252	5361VK0124-401
	IU	MDI 0817 ON	31.264	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	31.264	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	31.264	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	31.264	3520REG CONT BIT 5 VERIFY IN

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	IU	MDI 0822 ON	31.264	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	31.264	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 ON	31.264	3928SW SEL ZERO
	IU	LDI 0983 OFF	31.268	0463SW SEL READ
	IU	LDI 1099 OFF	31.268	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	31.268	0515SW SEL READ
S1B		DDA 2085 OFF	31.268	5161VXK0006-603
S1B		DDA 2088 OFF	31.268	5164VXK0005-603
S1B		DDA 2029 OFF	31.272	4080VXK0128-404
	IU	LDI 1091 OFF	31.276	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	31.276	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	31.276	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	31.276	5166VXK0008-603
S1B		DDA 2094 OFF	31.276	5167VXK0008-603
S1B		DDA 2096 OFF	31.276	5169VXK0008-603
S1B		DDA 2098 OFF	31.276	5171VXK0008-603
S1B		DDA 2099 OFF	31.276	5172VXK0008-603
	IU	LDI 1093 OFF	31.280	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	31.280	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	31.280	0511BIT NO 7 VERIFY
S1B		LDO 1690 OFF	31.280	4971ENG CONT PWR GND CONT EN
S4B		LDO 1784 ON	31.288	4480SPARK SYS NO 2 INH
S1B		DDA 3040 OFF	31.328	5354VXK0013-401
S1B		LDO 0043 ON	31.332	4182S-IVB SYSTEMS READY IND
S1B		LDO 0078 ON	31.344	4217SIVB READY TO LAUNCH IND
S4B		LDO 1805 ON	31.352	4500ENG READY
S4B		LDO 1933 ON	31.388	4550ENGINE READY
S4B		LDO 1966 ON	31.396	4695READY FOR LAUNCH
S4B		LDO 1947 ON	31.408	4681S-IVB PREP COMPLETE
S4B		LDO 1844 ON	31.464	4535SW SEL ZERO
S1B	IU	MDI 2305 ON	41.072	3765S-IVB STAGE SEL
S4B		MDI 1844 OFF	41.076	3928SW SEL ZERO
	IU	LDI 1091 ON	41.080	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	41.080	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	41.080	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	41.080	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	41.080	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	41.080	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	41.080	0514S-IVB STAGE SELECTOR
	IU	MDI 0817 OFF	41.080	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	41.080	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	41.080	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF	41.080	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	41.080	5164VXK0005-603
S1B		DDA 2093 ON	41.080	5166VXK0008-603
S1B		DDA 2094 ON	41.080	5167VXK0008-603

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S1B		DDA 2096 ON	41.080	5169VXK0008-603
S1B		DDA 2097 ON	41.080	5171VXK0008-603
S1B		DDA 2099 ON	41.080	5172VXK0008-603
	IU	LDI 1092 OFF	41.092	0507BIT NO 3 VERIFY
S1B	IU	MDI 2305 OFF	41.092	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON	41.092	3767RESET COMMAND
S1B S4B	IU	-2- 145 RESET	41.092	
S1B		DDA 2094 OFF	41.092	5167VXK0008-603
S1B		DDA 2098 OFF	41.092	5171VXK0008-603
	IU	LDI 1096 OFF	41.096	0511BIT NO 7 VERIFY
	IU	LDI 1103 ON	41.096	0517RESET COMMAND
S4B		MDI 1844 ON	41.096	3928SW SEL ZERO
S1B		DDA 2084 ON	41.096	5160VXK0007-603
	IU	MDI 0817 ON	41.100	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	41.100	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	41.100	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	41.100	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF	41.108	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	41.108	0512BIT NO 8 VERIFY
	IU	LDI 1099 OFF	41.108	0514S-IVR STAGE SELECTOR
S1B		DDA 2088 OFF	41.108	5164VXK0005-603
S1B		DDA 2093 OFF	41.108	5166VXK0008-603
S1B		DDA 2096 OFF	41.108	5169VXK0008-603
S1B		DDA 2099 OFF	41.108	5172VXK0008-603
	IU	LDI 1093 OFF	41.112	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	41.112	0509BIT NO 5 VERIFY
S1B	IU	MDI 2305 ON	41.124	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 OFF	41.124	3767RESET COMMAND
S4B		LDI 1844 OFF	41.128	4535SW SEL ZERO
S1B		DDA 2088 ON	41.128	5164VXK0005-603
	IU	LDI 1099 ON	41.132	0514S-IVR STAGE SELECTOR
S1B		DDA 2084 OFF	41.132	5160VXK0007-603
	IU	LDI 1103 OFF	41.136	0517RESET COMMAND
	IU	MDI 0817 OFF	41.136	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	41.136	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	41.136	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF	41.136	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	41.136	3928SW SEL ZERO
S1B		DDA 2093 ON	41.136	5166VXK0008-603
S1B		DDA 2096 ON	41.136	5169VXK0008-603
S1B		DDA 2099 ON	41.136	5172VXK0008-603
	IU	LDI 1091 ON	41.140	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	41.140	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	41.140	0509BIT NO 5 VERIFY
	IU	LDI 1097 ON	41.140	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	41.140	0514S-IVR STAGE SELECTOR

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	IU	MDI 0818 OFF	41.140	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	41.140	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	41.140	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	41.140	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	41.140	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	41.140	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON	41.148	0505BIT NO 1 VERIFY
	IU	LDI 1092 ON	41.148	0507BIT NO 3 VERIFY
	IU	LDI 1095 ON	41.148	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	41.148	0511BIT NO 7 VERIFY
S1B		DDA 2094 ON	41.148	5167VXK0008-603
S1B		DDA 2095 ON	41.148	5168VXK0008-603
S1B		DDA 2098 ON	41.148	5171VXK0008-603
S1B		DDA 2100 ON	41.148	5173VXK0008-603
	IU	LDI 1093 OFF	41.152	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	41.152	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	41.152	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	41.152	5166VXK0008-603
S1B		DDA 2096 OFF	41.152	5169VXK0008-603
	S4B	LDO 1844 ON	41.164	4535SW SEL ZERO
	S4B	LDO 1844 OFF	41.204	4535SW SEL ZERO
S1B	IU	MDI 2308 0	41.224	3768READ COMMAND
S1B S4B	IU	-2- 230 READ	41.224	
S1B		DDA 2085 ON	41.228	5161VXK0006-603
	IU	LDI 0983 ON	41.232	0463SW SEL READ
	IU	LDI 1102 ON	41.232	0516SW SEL READ
	S4B	MDI 1762 OFF	41.232	3796PASSIVATION RELAYS RESET
S1B		DDA 2029 ON	41.232	4080VK0128-404
S1B	IU	MDI 2305 OFF	41.252	3765S-IVR STAGE SEL
S1B	IU	MDI 2308 OFF	41.252	3768READ COMMAND
	S4B	MDI 1844 ON	41.260	3928SW SEL ZERO
	IU	MDI 0816 ON	41.264	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	41.264	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	41.264	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822 ON	41.264	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2085 OFF	41.264	5161VXK0006-603
S1B		DDA 2088 OFF	41.264	5164VXK0005-603
	IU	LDI 0983 OFF	41.268	0463SW SEL READ
	IU	LDI 1099 OFF	41.268	0514S-IVR STAGE SELECTOR
	IU	LDI 1102 OFF	41.268	0516SW SEL READ
	IU	MDI 0821 ON	41.268	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1091 OFF	41.272	0506BIT NO 2 VERIFY
S1B		DDA 2029 OFF	41.272	4080VK0128-404
S1B		DDA 2099 OFF	41.272	5172VXK0008-603
	IU	LDI 1090 OFF	41.276	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	41.276	0507BIT NO 3 VERIFY

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	IU	LDI 1096 OFF 41.276 0511BIT NO 7 VERIFY
S4B		LDO 1762 OFF 41.276 4461PASSIVATION RELAYS RESET
S1B		DDA 2094 OFF 41.276 5167VXK0008-603
S1B		DDA 2095 OFF 41.276 5168VXK0008-603
S1B		DDA 2098 OFF 41.276 5171VXK0008-603
S1B		DDA 2100 OFF 41.276 5173VXK0008-603
	IU	LDI 1095 OFF 41.280 0510BIT NO 6 VERIFY
S4B		LDO 1844 ON 41.312 4535SW SEL ZERO
S1B S4B	IU	CDC 01 3
S1B	IU	MDI 2305 ON 25.248 3765S-IVB STAGE SEL
S4B		MDI 1844 OFF 25.248 3928SW SEL ZERO
	IU	MDI 0816 OFF 25.252 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 25.252 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF 25.252 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 25.252 3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1090 ON 25.256 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 25.256 0506BIT NO 2 VERIFY
	IU	LDI 1097 ON 25.256 0512BIT NO 3 VERIFY
	IU	LDI 1099 ON 25.256 0514S-IVB STAGE SELECTOR
	IU	MDI 0821 ON 25.256 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 25.256 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 25.256 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON 25.256 5164VXK0005-603
S1B		DDA 2093 ON 25.256 5166VXK0008-603
S1B		DDA 2099 ON 25.256 5172VXK0008-603
S1B		DDA 2100 ON 25.256 5173VXK0008-603
S4B		LDO 1844 OFF 25.312 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 25.400 3768READ COMMAND
S1B S4B	IU	-2- 174 3082AUX HYD PUMP FLT REL RSE
S4B		MDI 1704 OFF 25.404 3082AUX HYD PUMP FLT REL RSE
	IU	LDI 0983 ON 25.408 0463SW SEL READ
	IU	LDI 1102 ON 25.408 0516SW SEL READ
S4B		MDI 1705 ON 25.408 3083AUX HYD PUMP POWER ON
S4B		MDI 1837 OFF 25.408 3921RDY FOR 4D411 PWR
S4B		MDI 1992 ON 25.408 3984AUX HYD P FLT REL RS OFF
S1B		DDA 2029 ON 25.408 4080VK0128-404
S1B		DDA 2085 ON 25.408 5161VXK0006-603
S1B	IU	MDI 2305 OFF 25.432 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 25.432 3768READ COMMAND
S1B		DDA 2085 OFF 25.440 5161VXK0006-603
	IU	LDI 0983 OFF 25.444 0463SW SEL READ
	IU	LDI 1099 OFF 25.444 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 25.444 0516SW SEL READ
	IU	MDI 0816 ON 25.444 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 25.444 3517REG CONT BIT 2 VERIFY IN

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	IO	MDI 0823 ON	25.444	3523REG CONT BIT 8 VERIFY IN
S17	848	MDI 1844 ON	25.444	3928SW SEL ZERO
		DDA 2088 OFF	25.444	5164VXK0005-603
S18	IO	LDI 1091 OFF	25.448	0506BIT NO 2 VERIFY
		DDA 2099 OFF	25.448	5172VXK0002-603
	IO	LDI 1091 OFF	25.452	0505BIT NO 1 VERIFY
S17	IO	LDI 1097 OFF	25.452	0512BIT NO 8 VERIFY
S17		DDA 2093 OFF	25.452	5166VXK0008-603
S17		DDA 2100 OFF	25.452	5173VXK0008-603
S17		DDA 2029 OFF	25.456	4080VK0128-404
	848	LDC 1704 OFF	25.456	4765AUX HYD PUMP FLT REL RSE
	848	LDC 1992 OFF	25.468	4712AUX HYD P FLT REL RS OFF
	848	LDC 1705 OFF	25.468	4766AUX HYD PUMP POWER ON
	848	LDC 1837 OFF	25.496	4528RDY FOR 4D411 PWR
	848	LDC 1844 ON	25.532	4535SW SEL ZERO
S17		LDC 0400 OFF	25.768	4297TIME BASE 3 ENABLE
S17		LDC 0400 OFF	25.768	4297TIME BASE 3 ENABLE
S17	IO	MDI 2305 OFF	52.260	3765S-IVB STAGE SEL
	IO	MDI 0816 OFF	52.264	3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0817 OFF	52.264	3517REG CONT BIT 2 VERIFY IN
	IO	MDI 0823 OFF	52.264	3523REG CONT BIT 8 VERIFY IN
	848	MDI 1844 OFF	52.264	3928SW SEL ZERO
	IO	LDI 1099 OFF	52.268	0514S-IVB STAGE SELECTOR
	IO	MDI 0816 OFF	52.268	3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0818 OFF	52.268	3518REG CONT BIT 3 VERIFY IN
	IO	MDI 0820 OFF	52.268	3520REG CONT BIT 5 VERIFY IN
S17		LDC 2088 OFF	52.268	5164VXK0005-603
S17		DDA 2093 OFF	52.268	5166VXK0008-603
S17		DDA 2096 OFF	52.268	5169VXK0008-603
S17		DDA 2098 OFF	52.268	5171VXK0008-603
S17		DDA 2099 OFF	52.268	5172VXK0002-603
	IO	LDI 1091 OFF	52.272	0506BIT NO 2 VERIFY
	IO	LDI 1092 OFF	52.272	0507BIT NO 3 VERIFY
	IO	LDI 1094 OFF	52.272	0509BIT NO 5 VERIFY
	IO	LDI 1097 OFF	52.272	0512BIT NO 8 VERIFY
	848	LDC 1844 OFF	52.312	4535SW SEL ZERO
S17	IO	MDI 2308 OFF	52.396	3766READ COMMAND
S17	848	-2- 151 READ	52.396	
	IO	LDI 0983 ON	52.404	0463SW SEL READ
	IO	LDI 1102 ON	52.404	0516SW SEL READ
S17		DDA 2029 OFF	52.404	4080VK0128-404
S17		DDA 2085 ON	52.404	5161VXK0006-603
S17	IO	MDI 2305 OFF	52.424	3765S-IVB STAGE SEL
S17	IO	MDI 2308 OFF	52.424	3766READ COMMAND
S17		DDA 2085 OFF	52.428	5161VXK0006-603
S17		DDA 2088 OFF	52.428	5164VXK0005-603

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	IU	LDI 0983 OFF 52.432 0463SW SEL READ
	IU	LDI 1099 OFF 52.432 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 52.432 0516SW SEL READ
S4B		MDI 1844 ON 52.432 3928SW SEL ZERO
	IU	MDI 0817 ON 52.436 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 52.436 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON 52.436 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON 52.436 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2099 OFF 52.436 5172VXK0008-603
	IU	LDI 1091 OFF 52.440 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 52.440 0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF 52.440 0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF 52.440 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 52.440 5166VXK0008-603
S1B		DDA 2096 OFF 52.440 5169VXK0008-603
S1B		DDA 2098 OFF 52.440 5171VXK0008-603
S1B		DDA 2029 OFF 52.444 4080VK0128-404
	S4B	LDO 1844 ON 52.476 4535SW SEL ZERO
S1B	IU	MDI 2305 ON 53.240 3765S-IVB STAGE SEL
	S4B	MDI 1844 OFF 53.244 3928SW SEL ZERO
	IU	MDI 0817 OFF 53.248 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF 53.248 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF 53.248 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 53.248 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON 53.252 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 53.252 0508BIT NO 4 VERIFY
	IU	LDI 1096 ON 53.252 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 53.252 0512BIT NO 8 VERIFY
	IU	LDI 1099 ON 53.252 0514S-IVB STAGE SELECTOR
	IU	MDI 0819 OFF 53.252 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 53.252 3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2088 ON 53.252 5161VXK0006-603
S1B		DDA 2093 ON 53.252 5166VXK0008-603
S1B		DDA 2094 ON 53.252 5167VXK0008-603
S1B		DDA 2099 ON 53.252 5172VXK0008-603
	S4B	LDO 1844 OFF 53.316 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 53.408 3768READ COMMAND
S1B	S4B	IU -2- 065 READ 53.408
	IU	LDI 0983 ON 53.420 0463SW SEL READ
	IU	LDI 1102 ON 53.420 0516SW SEL READ
S1B		DDA 2029 ON 53.420 4080VK0128-404
S1B		DDA 2085 ON 53.420 5161VXK0006-603
S1B	IU	MDI 2305 OFF 53.444 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 53.444 3768READ COMMAND
	S4B	MDI 1844 ON 53.452 3928SW SEL ZERO
S1B		DDA 2085 OFF 53.452 5161VXK0006-603

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	IU	LDI 0983 OFF 53.456 0463SW SEL READ
	IU	LDI 1099 OFF 53.456 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 53.456 0516SW SEL READ
	IU	MDI 0817 ON 53.456 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 53.456 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON 53.456 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 53.456 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF 53.456 5164VXK0005-603
S1B		DDA 2029 OFF 53.460 4080VK0128-404
S1B		DDA 2099 OFF 53.460 5172VXK0008-603
	IU	LDI 1091 OFF 53.464 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 53.464 0512BIT NO 4 VERIFY
S1B		DDA 2093 OFF 53.464 5166VXK0008-603
S1B		DDA 2094 OFF 53.464 5167VXK0008-603
	IU	LDI 1093 OFF 53.468 0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF 53.468 0511BIT NO 7 VERIFY
S4B		LDO 1844 ON 53.512 4535SW SEL ZERO
S1B	IU	MDI 2305 ON 54.644 3765S-IVB STAGE SEL
	IU	MDI 0817 OFF 54.648 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 54.648 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF 54.648 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 54.648 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 54.648 3928SW SEL ZERO
	IU	LDI 1091 ON 54.652 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 54.652 0512BIT NO 4 VERIFY
	IU	LDI 1094 ON 54.652 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 54.652 0510BIT NO 6 VERIFY
	IU	LDI 1096 ON 54.652 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 54.652 0512BIT NO 8 VERIFY
	IU	LDI 1099 ON 54.652 0514S-IVB STAGE SELECTOR
	IU	MDI 0817 OFF 54.652 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF 54.652 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 54.652 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2088 ON 54.652 5164VXK0005-603
S1B		DDA 2093 ON 54.652 5165VXK0005-603
S1B		DDA 2094 ON 54.652 5167VXK0008-603
S1B		DDA 2095 ON 54.652 5168VXK0008-603
S1B		DDA 2096 ON 54.652 5169VXK0008-603
S1B		DDA 2099 ON 54.652 5172VXK0008-603
S1B		DDA 2100 ON 54.652 5173VXK0008-603
S4B		LDO 1844 OFF 54.696 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 54.796 3768READ COMMAND
S1B	IU	-2- 004 READ 54.796
	IU	LDI 0983 ON 54.804 0463SW SEL READ
	IU	LDI 1102 ON 54.804 0516SW SEL READ

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S1B		DDA 2075 ON	54.804	4080VK0128-404
S1B		DDA 2085 ON	54.804	5161VXK0006-603
S4B		MDO 1722 OFF	54.808	2222ENGINE STG LOGIC BYP ON
S4B		MDO 1729 OFF	54.808	2228DIRECT VENT BYPASS ON
S4B		MDO 1730 OFF	54.808	2229PWR XFER BYPASS ON
S4B		MDO 1731 OFF	54.808	2230APPS BYPASS ON
S4B		MDO 1733 OFF	54.808	2231APS SYSTEM BYPASS ON
S4B		MDO 1734 OFF	54.808	2232APS BYPASS ON
S4B		MDI 1933 OFF	54.808	3942ENGINE READY
S4B		MDI 1966 OFF	54.808	3967READY FOR LAUNCH
S1B		MDO 1317 OFF	54.812	2154S-IVB SYSTEM READY BYPAS
S1B		MDI 0043 OFF	54.812	2861S-IVB SYSTEMS READY IND
S1B		MDI 0078 OFF	54.812	2958SIVB READY TO LAUNCH IND
S1B		MDI 0463 OFF	54.812	3276S-IVB READY FOR LAUNCH
S4B		MDI 1947 OFF	54.812	3953S-IVB PREP COMPLETE
S1B		DDA 3009 ON	54.812	5345VK0005-401
S1B		DDA 3040 ON	54.816	5354VXK0013-401
S1B	IU	MDI 2305 OFF	54.824	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	54.824	3768READ COMMAND
S1B		DDA 2085 OFF	54.828	5161VXK0006-603
S1B		DDA 2088 OFF	54.828	5164VXK0005-603
	IU	LDI 0983 OFF	54.832	0463SW SEL READ
	IU	LDI 1099 OFF	54.832	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	54.832	0516SW SEL READ
S4B		MDI 1844 ON	54.832	3928SW SEL ZERO
	IU	LDI 1091 OFF	54.836	0506BIT NO 2 VERIFY
	IU	MDI 0816 ON	54.836	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	54.836	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	54.836	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	54.836	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	54.836	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	54.836	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	54.836	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2099 OFF	54.836	5172VXK0008-603
	IU	LDI 1090 OFF	54.840	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	54.840	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	54.840	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	54.840	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	54.840	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	54.840	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	54.840	5166VXK0008-603
S1B		DDA 2094 OFF	54.840	5167VXK0008-603
S1B		DDA 2095 OFF	54.840	5168VXK0008-603
S1B		DDA 2096 OFF	54.840	5169VXK0008-603
S1B		DDA 2100 OFF	54.840	5173VXK0008-603
S1B		DDA 2029 OFF	54.844	4080VK0128-404

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S1B	IU	MDI 2306 ON	54.848	3766IU STAGE SEL
	IU	LDI 1098 ON	54.852	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	54.852	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	54.852	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	54.852	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF	54.852	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2087 ON	54.852	5163VXK0005-603
	IU	MDI 0819 OFF	54.856	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	54.856	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	54.856	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON	54.860	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	54.860	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	54.860	0508BIT NO 4 VERIFY
	IU	LDI 1094 ON	54.860	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	54.860	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	54.860	0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF	54.860	5162VXK0003-603
S1B		DDA 2093 ON	54.860	5166VXK0008-603
S1B		DDA 2094 ON	54.860	5167VXK0008-603
S1B		DDA 2096 ON	54.860	5169VXK0008-603
S1B		DDA 2098 ON	54.860	5171VXK0008-603
S1B		DDA 2099 ON	54.860	5172VXK0008-603
	S4B	LDO 1933 OFF	54.872	4550ENGINE READY
	S4B	LDO 1966 OFF	54.884	4695READY FOR LAUNCH
S1B		LDO 0043 OFF	54.892	4182S-IVB SYSTEMS READY IND
S1B		LDO 0078 OFF	54.928	4217SIVB READY TO LAUNCH IND
	S4B	LDO 1805 OFF	54.940	4500ENG READY
	S4B	LDO 1947 OFF	54.948	4681S-IVB PREP COMPLETE
	S4B	LDO 1844 ON	54.956	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	54.996	3768READ COMMAND
S1B	S4B	IU	-3-	041 READ 54.996
S1B		DDA 2149 ON	55.000	4134VXK0004-603
S1B		DDA 2085 ON	55.000	5161VXK0006-603
	IU	LDI 0983 OFF	55.004	0463SW SEL READ
	IU	LDI 1102 ON	55.004	0516SW SEL READ
S1B	IU	MDI 2306 OFF	55.024	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	55.024	3768READ COMMAND
	IU	LDI 1102 OFF	55.028	0463SW SEL READ
S1B		DDA 2085 OFF	55.028	5161VXK0006-603
S1B		DDA 2087 OFF	55.028	5163VXK0005-603
	IU	LDI 0983 OFF	55.032	0463SW SEL READ
	IU	LDI 1098 OFF	55.032	0513IU STAGE SELECTOR
	IU	MDI 0782 ON	55.036	3482SW SEL ZERO IND
	IU	MDI 0817 ON	55.036	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	55.036	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	55.036	3519REG CONT BIT 4 VERIFY IN

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	IU	MDI 0820 ON	55.036	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	55.036	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	55.036	3523REG CONT BIT 8 VERIFY IN
S1	IU	MDI 2306 ON	55.044	3766IU STAGE SEL
S1B		DDA 2149 OFF	55.044	4134VK0004-603
S1B		DDA 2086 ON	55.044	5162VXK0003-603
S1B		DDA 2099 OFF	55.044	5172VXK0008-603
	IU	LDI 1091 OFF	55.048	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	55.048	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	55.048	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	55.048	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	55.048	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	55.048	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	55.048	5166VXK0008-603
S1B		DDA 2094 OFF	55.048	5167VXK0008-603
S1B		DDA 2096 OFF	55.048	5169VXK0008-603
S1B		DDA 2098 OFF	55.048	5171VXK0008-603
	IU	LDI 1098 ON	55.052	0513IU STAGE SELECTOR
	IU	MDI 0782 OFF	55.052	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	55.052	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	55.052	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	55.052	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	55.052	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	55.052	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 ON	55.052	5163VXK0005-603
	IU	MDI 0819 ON	55.056	3519REG CONT BIT 4 VERIFY IN
	IU	LDI 1091 ON	55.060	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	55.060	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	55.060	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	55.060	0512BIT NO 8 VERIFY
S1B		DDA 2086 OFF	55.060	5162VXK0003-603
S1B		DDA 2093 ON	55.060	5166VXK0008-603
S1B		DDA 2094 ON	55.060	5167VXK0008-603
S1B		DDA 2096 ON	55.060	5169VXK0008-603
S1B		DDA 2099 ON	55.060	5172VXK0008-603
S1B	IU	MDI 2306 OFF	55.196	3766IU STAGE SEL
S1B S4B	IU	-3- 055 READ	55.196	
S1B		DDA 2085 ON	55.200	5161VXK0006-603
	IU	LDI 0983 ON	55.204	0463SW SEL READ
	IU	LDI 1102 ON	55.204	0516SW SEL READ
S1B		DDA 2149 ON	55.208	4134VK0004-603
S1B	IU	MDI 2306 OFF	55.224	3766IU STAGE SEL
S1	IU	MDI 2308 OFF	55.224	3768READ COMMAND
	IU	MDI 0817 ON	55.236	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	55.236	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	55.236	3522REG CONT BIT 7 VERIFY IN

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	IU	MDI 0823 ON	55.236	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF	55.236	5161VXK0006-603
S1B		DDA 2087 OFF	55.236	5163VXK0005-603
	IU	LDI 1093 OFF	55.240	0463SW SEL READ
	IU	LDI 1093 OFF	55.240	0513IU STAGE SELECTOR
	IU	LDI 1103 OFF	55.240	0516SW SEL READ
	IU	MDI 0782 ON	55.240	3482SW SEL ZERO IND
S1B		DDA 2149 OFF	55.244	4134VK0004-603
S1B		DDA 2086 ON	55.244	5162VXK0003-603
S1B		DDA 2099 OFF	55.244	5172VXK0008-603
S1B		DDA 2110 ON	55.244	5183VK0020-602
	IU	LDI 1091 OFF	55.248	0506BIT NO 2 VERIFY
	IU	LDI 1094 OFF	55.248	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	55.248	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	55.248	0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON	55.248	3765S-IVB STAGE SEL
S1B		DDA 2093 OFF	55.248	5166VXK0008-603
S1B		DDA 2094 OFF	55.248	5167VXK0008-603
S1B		DDA 2096 OFF	55.248	5169VXK0008-603
	IU	LDI 1099 ON	55.252	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	55.252	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	55.252	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	55.252	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	55.252	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	55.252	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	55.252	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	55.252	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	55.252	3928SW SEL ZERO
S1B		DDA 2088 ON	55.252	5164VXK0005-603
	IU	MDI 0820 ON	55.256	3520REG CONT BIT 5 VERIFY IN
	IU	LDI 1091 ON	55.260	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	55.260	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	55.260	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	55.260	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	55.260	5166VXK0008-603
S1B		DDA 2094 ON	55.260	5167VXK0008-603
S1B		DDA 2095 ON	55.260	5168VXK0008-603
S1B		DDA 2099 ON	55.260	5172VXK0008-603
	IU	LDI 1095 ON	55.264	0510BIT NO 6 VERIFY
S4B		LDO 1844 OFF	55.296	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	55.400	3768READ COMMAND
S1B	S4B	-2- 025 READ	55.400	
S1B		DDA 2085 ON	55.400	5161VXK0006-603
	IU	LDI 0983 ON	55.404	0463SW SEL READ
	IU	LDI 1102 ON	55.404	0516SW SEL READ

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S1B	S4B	MDI 1806 ON	55.404	3836ENG HE CONT SOL ENERGIZE
		DDA 2029 ON	55.404	4080VK0128-404
	S4B	MDI 2741 ON	55.404	4986SPARK SYS 1 TEST ON
	S4B	MDI 2742 ON	55.404	4987SPARK SYS 2 TEST ON
	S4B	MDI 1816 OFF	55.412	3904GG VLV CLOSED
	S4B	MDI 1817 OFF	55.412	3905MAIN LOX VLV CLOSED
S1B	IU	MDI 2305 OFF	55.444	3765S-IVR STAGE SEL
S1B	IU	MDI 2306 OFF	55.444	3766READ COMMAND
	S4B	MDI 1844 ON	55.452	3928SW SEL ZERO
S1B		DDA 2085 OFF	55.452	5161VXK0006-603
	IU	LDI 0983 OFF	55.456	0463SW SEL READ
	IU	LDI 1098 OFF	55.456	0514S-IVR STAGE SELECTION
	IU	LDI 1102 OFF	55.456	0516SW SEL READ
	IU	MDI 0817 ON	55.456	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	55.456	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	55.456	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	55.456	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	55.456	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF	55.456	5164VXK0005-603
S1B		DDA 2029 OFF	55.460	4080VK0128-404
S1B		DDA 2099 OFF	55.460	5172VXK0008-603
	IU	LDI 1091 OFF	55.464	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	55.464	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	55.464	5166VXK0008-603
S1B		DDA 2094 OFF	55.464	5167VXK0008-603
S1B		DDA 2095 OFF	55.464	5168VXK0008-603
	IU	LDI 1093 OFF	55.468	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	55.468	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	55.468	0511BIT NO 7 VERIFY
	S4B	LDO 1806 ON	55.480	4501ENG HE CONT SOL ENERGIZE
	S4B	MDI 1807 ON	55.488	3837FUEL BLEED VALVE CLOSED
	S4B	MDI 1708 OFF	55.492	3007H CLDN PUMP READY TO ST
	S4B	MDI 1808 ON	55.492	3838LOX BLEED VALVE CLOSED
	S4B	MDI 1708 OFF	55.496	3036LOX CLDN PUMP RDY TO ST
	S4B	LDO 1816 OFF	55.496	4511GG VLV CLOSED
	S4B	LDO 1817 OFF	55.500	4512MAIN LOX VLV CLOSED
	S4B	LDO 1844 ON	55.532	4535SW SEL ZERO
	S4B	LDO 1807 ON	55.564	4502FUEL BLEED VALVE CLOSED
S1B		DDA 3037 ON	55.568	5352VK0117-401
	S4B	LDO 1709 OFF	55.576	4770LH CLDN PUMP READY TO ST
	S4B	LDO 1808 ON	55.584	4503LOX BLEED VALVE CLOSED
	S4B	LDO 1708 OFF	55.588	4762LOX CLDN PUMP RDY TO ST
S1B		DDA 3034 ON	57.564	5350VK0120-401
S1B	S4B IU	CDC 01 34		
	S4B	MDI 1784 ON	04.952	3814SPARK SYS NO 2 INH
	S4B	MDI 1847 ON	04.980	3930SPARK SYS NO 1 INH

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S4B		LDO 1782 ON	04.996	4479LOX TANK NOT OVERFILLED
S4B		LDO 1847 ON	05.032	4537SPARK SYS NO 1 INH
S1B		DDA 3046 ON	06.072	5360VK0125-401
S1B		TDA 3247 ON	06.076	5361VK0125-401
S1B S4B	IU	CDC 01 16		
S1B S4B	IU	CDC 01 18		
S1B S4B	IU	CDC 01 17		
S1B S4B	IU	CDC 01 18		
S1B S4B	IU	CDC 01 19		
S1B S4B	IU	CDC 01 19		
S1B S4B	IU	CDC 01 21		
S1B S4B	IU	CDC 01 22		
S1B S4B	IU	CDC 01 42		
S1B		MDI 2305 ON	05.420	3765S-IVB STAGE SEL
S4B		MDI 1844 OFF	05.420	3928SW SEL ZERO
	IU	MDI 0817 OFF	05.424	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	05.424	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	05.424	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	05.424	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	05.424	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1098 ON	05.428	0506BIT NO 1 VERIFY
	IU	LDI 1091 ON	05.428	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	05.428	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	05.428	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	05.428	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	05.428	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	05.428	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	05.428	3516REG CONT BIT 1 VERIFY IN
S1B		DDA 2093 ON	05.428	5166VXK0008-603
S1B		DDA 2094 ON	05.428	5167VXK0008-603
S1B		DDA 2095 ON	05.428	5168VXK0008-603
S1B		DDA 2100 ON	05.428	5173VXK0008-603
S1B	IU	MDI 2308 ON	05.464	3768READ COMMAND
S1B S4B	IU	-2- 024 READ	05.464	
S1B		LDI 0983 ON	05.472	0463SW SEL READ
S1B	IU	LDI 1112 ON	05.472	0463SW SEL READ
S1B		DDA 2029 ON	05.472	4080VK0128-404
S4B		MDI 1805 ON	05.476	3835ENG READY
S4B		MDI 1933 ON	05.476	3942ENGINE READY
S4B		MDI 1966 ON	05.476	3967READY FOR LAUNCH
S1B		MDO 1317 ON	05.480	2154S-IVB SYSTEM READY BYPAS
S4B		MDO 1722 ON	05.480	2222ENGINE STG LOGIC BYP ON
S4B		MDO 1729 ON	05.480	2228DIRECT VENT BYPASS ON
S4B		MDO 1730 ON	05.480	2229PWR XFER BYPASS ON

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S4B		MDI 1732 ON	05.480	2230ORDNANCE SYS BYPASS ON
S4B		MDI 1733 ON	05.480	2231APS SYSTEM BYPASS ON
S1B		MDI 0463 ON	05.480	3276S-IVB READY FOR LAUNCH
S4B		MDI 1947 ON	05.480	3953S-IVB PREP COMPLETE
S1B		DDA 3009 OFF	05.480	5345VK0005-401
S1B		MDI 0043 ON	05.484	2861S-IVB SYSTEMS READY IND
S1B		MDI 0078 ON	05.484	2958SIVB READY TO LAUNCH IND
S1B	IU	MDI 2305 OFF	05.492	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	05.492	3768READ COMMAND
S4B		MDI 1844 ON	05.500	3928SW SEL ZERO
S4B		LDO 1844 OFF	05.500	4535SW SEL ZERO
	IU	LDI 0983 OFF	05.504	0463SW SEL READ
	IU	LDI 1099 OFF	05.504	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	05.504	0516SW SEL READ
	IU	MDI 0816 ON	05.504	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	05.504	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	05.504	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	05.504	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	05.504	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	05.504	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF	05.504	5161VXK0006-603
S1B		DDA 2088 OFF	05.504	5164VXK0005-603
S1B		DDA 3040 OFF	05.504	5354VXK0013-401
S1B		DDA 3037 OFF	05.508	5352VK0117-401
	IU	LDI 1091 OFF	05.512	0506BIT NO 2 VERIFY
S1B		DDA 2029 OFF	05.512	5171VXK0007-603
S1B		DDA 2099 OFF	05.512	5172VXK0008-603
	IU	LDI 1090 OFF	05.516	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	05.516	0506BIT NO 4 VERIFY
	IU	LDI 1095 OFF	05.516	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	05.516	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	05.516	0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON	05.516	3765S-IVB STAGE SEL
S1B		DDA 2093 OFF	05.516	5166VXK0008-603
S1B		DDA 2094 OFF	05.516	5167VXK0009-603
S1B		DDA 2095 OFF	05.516	5168VXK0010-603
S1B		DDA 2100 OFF	05.516	5173VXK0008-603
S1B		DDA 3034 OFF	05.516	5350VK0120-401
	IU	LDI 1099 ON	05.520	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	05.520	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	05.520	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	05.520	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	05.520	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	05.520	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	05.520	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	05.520	3928SW SEL ZERO

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S1B		DDA 2088 ON	05.520	5164VXK0005-603
	IU	MDI 0821 ON	05.524	3521REG CONT BIT 6 VERIFY IN
	IU	LDI 1090 ON	05.528	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	05.528	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	05.528	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	05.528	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	05.528	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	05.528	5166VXK0008-603
S1B		DDA 2094 ON	05.528	5167VXK0008-603
S1B		DDA 2100 ON	05.528	5173VXK0008-603
S4B		LDO 1933 ON	05.556	4550ENGINE READY
S4B		LDO 1966 ON	05.568	4695READY FOR LAUNCH
S1B		LDO 0043 ON	05.604	4182S-IVB SYSTEMS READY IND
S4B		MDI 1817 ON	05.612	3905MAIN LOX VLV CLOSED
S1B		LDO 0078 ON	05.612	4217SIVB READY TO LAUNCH IND
S4B		LDO 1947 ON	05.620	4681S-IVB PREP COMPLETE
S4B		LDO 1844 ON	05.632	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	05.660	3768READ COMMAND
S1B	S4B IU	-2- 064 READ	05.660	
S4B		MDI 1806 OFF	05.668	3836ENG HE CONT SOL ENERGIZE
S4B		LDO 1844 OFF	05.668	4535SW SEL ZERO
S4B		MDI 2741 OFF	05.668	4986SPARK SYS 1 TEST ON
S4B		MDI 2742 OFF	05.668	4987SPARK SYS 2 TEST ON
S1B		DDA 2085 ON	05.668	5161VXK0006-603
	IU	LDI 0983 ON	05.672	0463SW SEL READ
	IU	LDI 1102 ON	05.672	0516SW SEL READ
S4B		MDI 1784 OFF	05.672	3814SPARK SYS NO 2 INH
S4B		MDI 1817 OFF	05.672	3815SPARK SYS NO 1 INH
S1B		DDA 2029 ON	05.672	4080VK0128-404
S1B	IU	MDI 2305 OFF	05.688	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	05.688	3768READ COMMAND
	IU	LDI 0983 OFF	05.696	0463SW SEL READ
	IU	LDI 1099 OFF	05.696	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	05.696	0516SW SEL READ
S4B		MDI 1844 OFF	05.696	3928SW SEL ZERO
S1B		DDA 2085 OFF	05.696	5161VXK0006-603
S1B		DDA 2088 OFF	05.696	5164VXK0005-603
	IU	MDI 0816 ON	05.700	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	05.700	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	05.700	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	05.700	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	05.700	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 OFF	05.704	0506BIT NO 2 VERIFY
S4B		LDO 1817 ON	05.704	4512MAIN LOX VLV CLOSED

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S1B		DDA 2099 OFF 05.704 5172VXK0008-603
	IU	LDI 1090 OFF 05.708 0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF 05.708 0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF 05.708 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 05.708 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 05.708 5166VXK0008-603
S1B		DDA 2094 OFF 05.708 5167VXK0008-603
S1B		DDA 2095 OFF 05.708 5168VXK0008-603
S1B		DDA 2029 OFF 05.712 4080VK0128-404
	S4B	LDO 1806 OFF 05.748 4501ENG HE CONT SOL ENERGIZE
	S4B	LDO 1782 OFF 05.760 4479LOX TANK NOT OVERFILLED
	S4B	LDO 1847 OFF 05.768 4537SPARK SYS NO 1 INH
	S4B	LDO 1844 ON 05.804 4535SW SEL ZERO
	S4B	MDI 1816 ON 05.932 3904GG VLV CLOSED
	S4B	LDO 1816 ON 05.980 4511GG VLV CLOSED
S1B		DDA 3047 ON 10.596 5361VK0124-401
S1B		DDA 3046 OFF 10.600 5360VK0125-401
S1B	IU	MDI 2305 ON 35.108 3765S-IVR STAGE SEL
	S4B	MDI 1844 OFF 35.112 3928SW SEL ZERO
	IU	LDI 1097 ON 35.116 0512BIT NO 8 VERIFY
	IU	MDI 0816 OFF 35.116 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 35.116 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 35.116 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 35.116 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 35.116 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF 35.116 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON 35.116 5164VXK0005-603
	IU	LDI 1090 ON 35.124 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 35.124 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 35.124 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 35.124 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 35.124 0509BIT NO 5 VERIFY
	IU	LDI 1097 ON 35.124 0512BIT NO 8 VERIFY
S1B		DDA 2096 ON 35.124 5169VXK0008-603
S1B		DDA 2098 ON 35.124 5171VXK0008-603
S1B		DDA 2099 ON 35.124 5172VXK0008-603
S1B		DDA 2100 ON 35.124 5173VXK0008-603
S1B	IU	MDI 2305 OFF 35.128 3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON 35.132 3767RESET COMMAND
S1B	S4B	-2- 140 RESET 35.132
	S4B	MDI 1844 ON 35.132 3928SW SEL ZERO
	IU	MDI 0816 ON 35.136 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 35.136 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 35.136 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 35.136 3519REG CONT BIT 4 VERIFY IN

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	IU	MDI 0820 ON	35.136	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	35.136	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1103 ON	35.140	0517RESET COMMAND
S1B		DDA 2084 ON	35.140	5160VXK0007-603
S1B		DDA 2088 OFF	35.140	5164VXK0005-603
S1B		DDA 2099 OFF	35.140	5172VXK0008-603
	IU	LDI 1090 OFF	35.144	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	35.144	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	35.144	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	35.144	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	35.144	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	35.144	0512BIT NO 6 VERIFY
	IU	LDI 1099 OFF	35.144	0514S-IVB STAGE SELECTOR
S1B	IU	MDI 2305 ON	35.144	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	35.144	3767RESET COMMAND
S1B		DDA 2093 OFF	35.144	5166VXK0008-603
S1B		DDA 2096 OFF	35.144	5169VXK0008-603
S1B		DDA 2098 OFF	35.144	5171VXK0008-603
S1B		DDA 2100 OFF	35.144	5173VXK0008-603
	IU	LDI 1099 OFF	35.144	0514S-IVB STAGE SELECTOR
S4B		MDI 1844 OFF	35.156	3928SW SEL ZERO
S1B		DDA 2088 ON	35.156	5164VXK0005-603
	IU	LDI 1103 OFF	35.160	0517RESET COMMAND
	IU	MDI 0817 OFF	35.160	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	35.160	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	35.160	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	35.160	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	35.160	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF	35.160	5160VXK0007-603
	IU	LDI 1096 ON	35.164	0511BIT NO 7 VERIFY
	IU	MDI 0819 ON	35.164	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	35.164	3523REG CONT BIT 8 VERIFY IN
S4B		LDO 1844 OFF	35.164	4535SW SEL ZERO
S1B		DDA 2095 ON	35.164	5168VXK0008-603
S1B		DDA 2099 ON	35.164	5172VXK0008-603
	IU	LDI 1095 ON	35.168	0510BIT NO 6 VERIFY
S4B		LDO 1844 ON	35.200	4535SW SEL ZERO
S4B		LDO 1844 OFF	35.240	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	35.260	3768READ COMMAND
S1B	IU	-2- 235 READ	35.260	
	IU	LDI 1102 ON	35.264	0516SW SEL READ
S1B		DDA 2085 ON	35.264	5161VXK0006-603
	IU	LDI 0983 ON	35.268	0463SW SEL READ
S1B		DDA 2029 ON	35.268	4080VK0128-404

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S4B		MDI 1722	OFF	35.272	2222ENGINE STG LOGIC BYP ON
S4B		MDI 1729	OFF	35.272	2228DIRECT VENT BYPASS ON
S4B		MDI 1730	OFF	35.272	2229PWR XFER BYPASS ON
S4B		MDI 1732	OFF	35.272	2230ORDNANCE SYS BYPASS ON
S4B		MDI 1733	OFF	35.272	2231APS SYSTEM BYPASS ON
S1B		MDI 0463	OFF	35.272	3276S-IVB READY FOR LAUNCH
S4B		MDI 1805	OFF	35.272	3835ENG READY
S4B		MDI 1933	OFF	35.272	3942ENGINE READY
S4B		MDI 1947	OFF	35.272	3953S-IVB PREP COMPLETE
S4B		MDI 1966	OFF	35.272	3967READY FOR LAUNCH
S1B		MDI 1317	OFF	35.276	2154S-IVB SYSTEM READY BYPAS
S1B		MDI 0043	OFF	35.276	2861S-IVB SYSTEMS READY IND
S1B		MDI 0076	OFF	35.276	2956SIVB READY TO LAUNCH IND
S1B		DDA 3008	ON	35.276	5344VK0006-401
S1B	IU	MDI 2305	OFF	35.300	3765S-IVB STAGE SEL
S1B	IU	MDI 2308	OFF	35.300	3768READ COMMAND
	IU	LDI 0983	OFF	35.308	0463SW SEL READ
	IU	LDI 1099	OFF	35.308	0514S-IVB STAGE SELECTOR
	IU	LDI 1102	OFF	35.308	0516SW SEL READ
S4B		MDI 1844	ON	35.308	3928SW SEL ZERO
S1B		DDA 2085	OFF	35.308	5161VXK0006-603
S1B		DDA 2088	OFF	35.308	5164VXK0005-603
	IU	MDI 0817	ON	35.312	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821	ON	35.312	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	ON	35.312	3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1091	OFF	35.316	0510BIT NO 6 VERIFY
S1B		DDA 2099	OFF	35.316	5172VXK0008-603
	IU	LDI 1095	OFF	35.320	0510BIT NO 6 VERIFY
	IU	LDI 1096	OFF	35.320	0511BIT NO 7 VERIFY
S1B		DDA 2094	OFF	35.320	5167VXK0008-603
S1B		DDA 2095	OFF	35.320	5168VXK0008-603
S1B	IU	MDI 2305	ON	35.324	3765S-IVB STAGE SEL
S1B		DDA 2029	OFF	35.324	4080VK0128-404
	IU	MDI 0817	OFF	35.328	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821	OFF	35.328	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	35.328	3522REG CONT BIT 7 VERIFY IN
S4B		MDI 1844	OFF	35.328	3928SW SEL ZERO
	IU	LDI 1091	ON	35.332	0508BIT NO 4 VERIFY
	IU	LDI 1093	ON	35.332	0508BIT NO 4 VERIFY
	IU	LDI 1095	ON	35.332	0510BIT NO 6 VERIFY
	IU	LDI 1096	ON	35.332	0511BIT NO 7 VERIFY
	IU	LDI 1097	ON	35.332	0512BIT NO 8 VERIFY
	IU	LDI 1099	ON	35.332	0514S-IVB STAGE SELECTOR
	IU	MDI 0819	OFF	35.332	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823	OFF	35.332	3523REG CONT BIT 8 VERIFY IN
	IU	DDA 2088	ON	35.332	5164VXK0005-603

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S18		DDA 2093 ON	35.332	5166VXK0008-603
S18		DDA 2094 ON	35.332	5167VXK0008-603
S18		DDA 2095 ON	35.332	5168VXK0008-603
S18		DDA 2099 ON	35.332	5172VXK0008-603
S18		DDA 3040 ON	35.336	5354VXK0013-401
S4B		LDO 1933 OFF	35.348	4550ENGINE READY
S4B		LDO 1947 OFF	35.360	4681S-IVB PREP COMPLETE
S4B		LDO 1966 OFF	35.360	4695READY FOR LAUNCH
S18		LDO 0043 OFF	35.368	4182S-IVB SYSTEMS READY IND
S18		LDO 0078 OFF	35.404	4217SIVB READY TO LAUNCH IND
S4B		LDO 1805 OFF	35.428	4500ENG READY
S4B		LDO 1844 ON	35.432	4535SW SEL ZERO
S18	IU	MDI 2308 ON	35.472	3768READ COMMAND
S18	S4B	-2- 025 READ	35.472	
S18		DDA 2029 ON	35.476	4080VK0128-404
S4B		MDI 2741 ON	35.476	4986SPARK SYS 1 TEST ON
S4B		MDI 2742 ON	35.476	4907SPARK SYS 2 TEST ON
S4B		MDI 1806 ON	35.480	3836ENG HE CONT SOL ENERGIZE
S18		DDA 2085 ON	35.480	5161VXK0006-603
	IU	LDI 0983 ON	35.484	0463SW SEL READ
	IU	LDI 1102 ON	35.484	0516SW SEL READ
S4B		MDI 1809 OFF	35.484	3839MAIN FUEL VLV CLOSED
S4B		LDO 1844 OFF	35.500	4535SW SEL ZERO
S18	IU	MDI 2305 OFF	35.508	3765S-IVB STAGE SEL
S18	IU	MDI 2308 OFF	35.508	3768READ COMMAND
	IU	LDI 1102 OFF	35.516	0516SW SEL READ
	IU	MDI 1844 ON	35.516	3928SW SEL ZERO
S4B		DDA 2085 OFF	35.516	5161VXK0006-603
S18		DDA 2088 OFF	35.516	5164VXK0005-603
	IU	LDI 1099 OFF	35.520	0514S-IVB STAGE SELECTOR
	IU	MDI 0817 ON	35.520	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	35.520	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	35.520	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	35.520	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	35.520	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2029 OFF	35.520	4080VK0128-404
S18		LDI 1091 OFF	35.524	0506BIT NO 2 VERIFY
	IU	DDA 2099 OFF	35.524	5172VXK0008-603
	IU	LDI 1093 OFF	35.528	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	35.528	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	35.528	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	35.528	0512BIT NO 8 VERIFY
S18		DDA 2093 OFF	35.528	5166VXK0008-603
S18		DDA 2094 OFF	35.528	5167VXK0008-603
S18		DDA 2095 OFF	35.528	5168VXK0008-603

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S4B		LDO	1806	ON	35.548	4501ENG HE CONT SOL ENERGIZE
S4B		LDO	1809	OFF	35.580	4504MAIN FUEL VLV CLOSED
S4B		MDI	1810	ON	35.584	3720ASI LOX VLV OPEN
S4B		LDO	1844	ON	35.608	4535SW SEL ZERO
S4B		LDO	1810	ON	35.652	4505ASI LOX VLV OPEN
S1B		DDA	3036	ON	35.668	5351VK0118-401
S4B		MDI	1784	ON	44.996	3814SPARK SYS NO 2 INH
S4B		MDI	1847	ON	45.028	3930SPARK SYS NO 1 INH
S4B		LDO	1782	ON	45.044	4479LOX TANK NOT OVERFILLED
S4B		LDO	1847	ON	45.080	4537SPARK SYS NO 1 INH
S1B	S4B	IU				CDC 01 13
S1B		IU				MDI 2305 ON 20.744 3765S-IVB STAGE SEL
S4B						MDI 1844 OFF 20.748 3928SW SEL ZERO
S1B						DDA 2088 ON 20.748 5164VXK0005-603
						LDI 1099 ON 20.752 0514S-IVB STAGE SELECTOR
						MDI 0817 OFF 20.752 3517REG CONT BIT 2 VERIFY IN
						MDI 0818 OFF 20.752 3518REG CONT BIT 3 VERIFY IN
						MDI 0819 OFF 20.752 3519REG CONT BIT 4 VERIFY IN
						MDI 0820 OFF 20.752 3520REG CONT BIT 5 VERIFY IN
						MDI 0823 OFF 20.752 3523REG CONT BIT 6 VERIFY IN
S1B						DDA 2093 ON 20.756 5166VXK0008-603
S1B						DDA 2094 ON 20.756 5171VXK0008-603
						LDI 1091 ON 20.760 0506BIT NO 2 VERIFY
						LDI 1092 ON 20.760 0507BIT NO 3 VERIFY
						LDI 1093 ON 20.760 0508BIT NO 4 VERIFY
						LDI 1094 ON 20.760 0509BIT NO 5 VERIFY
						LDI 1097 ON 20.760 0512BIT NO 6 VERIFY
S1B						DDA 2096 ON 20.760 5169VXK0008-603
S1B						DDA 2099 ON 20.760 5172VXK0008-603
S1B	IU					MDI 2308 ON 20.788 3768READ COMMAND
S1B	S4B	IU				-2- 141 READ 20.788
	S4B					MDI 1810 OFF 20.796 3720ASI LOX VLV OPEN
S1B						DDA 2029 ON 20.796 4080VK0128-404
						LDI 0983 ON 20.800 0463SW SEL READ
						LDI 1102 ON 20.800 0516SW SEL READ
S4B						MDO 1722 ON 20.800 2222ENGINE STG LOGIC BYP ON
S4B						MDO 1729 ON 20.800 2228DIRECT VENT BYPASS ON
S4B						MDO 1730 ON 20.800 2229PWR XFER BYPASS ON
S4B						MDO 1732 ON 20.800 2230ORDNANCE SYS BYPASS ON
S4B						MDO 1733 ON 20.800 2231APS SYSTEM BYPASS ON
S4B						MDI 1805 ON 20.800 3835ENG READY
S4B						MDI 1933 ON 20.800 3942ENGINE READY
S4B						MDI 1966 ON 20.800 3967READY FOR LAUNCH
S1B						DDA 2085 ON 20.800 5161VXK0006-603
S1B						MDO 1317 ON 20.804 2154S-IVB SYSTEM READY BYPAS
S1B						MDI 0463 ON 20.804 3276S-IVB READY FOR LAUNCH

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S4B		MDI 1947 ON	20.304	3953S-IVB PREP COMPLETE
S1B		DDA 3008 OFF	20.304	5344VXK0006-401
S1B		MDI 0043 ON	20.308	2861S-IVB SYSTEMS READY IND
S1B		MDI 0078 ON	20.308	2958SIVB READY TO LAUNCH IND
S1B	IU	MDI 2305 OFF	20.316	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	20.316	3768READ COMMAND
		MDI 1844 ON	20.324	3928SW SEL ZERO
		LDO 1844 OFF	20.324	4535SW SEL ZERO
	IU	LDI 0983 OFF	20.328	0463SW SEL READ
	IU	LDI 1099 OFF	20.328	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	20.328	0516SW SEL READ
	IU	MDI 0817 ON	20.328	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	20.328	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	20.328	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	20.328	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	20.328	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF	20.328	5161VXK0006-603
S1B		DDA 2088 OFF	20.328	5164VXK0005-603
S1B		DDA 2029 OFF	20.332	4080VXK0128-404
S1B		DDA 3036 OFF	20.332	5351VXK0118-401
S1B		DDA 3040 OFF	20.332	5354VXK0013-401
	IU	LDI 1091 OFF	20.336	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	20.336	0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF	20.336	0512BIT NO 3 VERIFY
S1B		DDA 2093 OFF	20.336	5166VXK0008-603
S1B		DDA 2098 OFF	20.336	5171VXK0008-603
S1B		DDA 2099 OFF	20.336	5172VXK0008-603
	IU	LDI 1093 OFF	20.340	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	20.340	0509BIT NO 5 VERIFY
S1B	IU	MDI 2305 ON	20.340	3765S-IVB STAGE SEL
	IU	MDI 0817 OFF	20.344	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	20.344	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	20.344	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	20.344	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 OFF	20.344	3523REG CONT BIT 8 VERIFY IN
		MDI 1844 OFF	20.344	3928SW SEL ZERO
	IU	MDI 0816 OFF	20.348	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON	20.348	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON	20.348	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	20.348	3522REG CONT BIT 7 VERIFY IN
		DDA 2088 ON	20.348	5164VXK0005-603
		DDA 2093 ON	20.348	5166VXK0008-603
		DDA 2094 ON	20.348	5167VXK0008-603
		DDA 2099 ON	20.348	5172VXK0008-603
		DDA 2100 ON	20.348	5173VXK0008-603

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	IU	LDI 1090 ON	20.852	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	20.852	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	20.852	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	20.852	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	20.852	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	20.852	0514S-IVB STAGE SELECTOR
	S4B	LDO 1805 ON	20.860	4500ENG READY
	S4B	LDO 1810 OFF	20.864	4505ASI LOX VLV OPEN
	S4B	LDO 1933 ON	20.868	4550ENGINE READY
	S4B	LDO 1966 ON	20.880	4695READY FOR LAUNCH
S1B		LDO 0043 ON	20.888	4182S-IVB SYSTEMS READY IND
S1B		LDO 0078 ON	20.936	4217SIVB READY TO LAUNCH IND
	S4B	LDO 1947 ON	20.944	4681S-IVB PREP COMPLETE
	S4B	LDO 1844 ON	20.956	4535SW SEL ZERO
S1B	IU	MDI 2303 ON	20.988	3768READ COMMAND
S1B	S4B	IU	-2- 064 READ	20.988
	IU	LDI 0983 ON	20.992	0463SW SEL READ
	IU	LDI 1102 ON	20.992	0516SW SEL READ
	S4B	LDO 1844 OFF	20.992	4535SW SEL ZERO
	S4B	MDI 2742 OFF	20.992	4987SPARK SYS 2 TEST ON
S1B		DDA 2085 ON	20.992	5161VXK0006-603
	S4B	MDI 1806 OFF	20.996	3836ENG HE CONT SOL ENERGIZE
S1B		DDA 2029 ON	20.996	4080VK0128-404
	S4B	MDI 2741 OFF	20.996	4986SPARK SYS 1 TEST ON
	S4B	MDI 1784 OFF	21.000	3814SPARK SYS NO 2 INH
	S4B	MDI 1847 OFF	21.000	3930SPARK SYS NO 1 INH
S1B	IU	MDI 2305 OFF	21.016	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	21.016	3768READ COMMAND
	S4B	MDI 1844 ON	21.024	3928SW SEL ZERO
	IU	LDI 0983 OFF	21.028	0463SW SEL READ
	IU	LDI 1099 OFF	21.028	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	21.028	0516SW SEL READ
	IU	MDI 0816 ON	21.028	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	21.028	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	21.028	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON	21.028	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	21.028	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2085 OFF	21.028	5161VXK0006-603
S1B		DDA 2088 OFF	21.028	5164VXK0005-603
S1B		DDA 2029 OFF	21.032	4080VK0128-404
	IU	LDI 1091 OFF	21.036	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	21.036	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	21.036	5166VXK0008-603
S1B		DDA 2094 OFF	21.036	5167VXK0008-603
S1B		DDA 2099 OFF	21.036	5172VXK0008-603
S1B		DDA 2100 OFF	21.036	5173VXK0008-603

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	IU	LDI 1090 OFF	21.040	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	21.040	0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF	21.040	0511BIT NO 7 VERIFY
S1	IU	MDI 2306 ON	21.040	3766IU STAGE SEL
	IU	MDI 0782 OFF	21.048	3482SW SEL ZERO IND
	IU	MDI 0817 OFF	21.048	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	21.048	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	21.048	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	21.048	3523REG CONT BIT 8 VERIFY IN
S1		DDA 2093 ON	21.048	5166VXK0008-603
S1		DDA 2096 ON	21.048	5169VXK0008-603
S1		DDA 2099 ON	21.048	5172VXK0008-603
	IU	LDI 1094 ON	21.052	0509BIT NO 5 VERIFY
	IU	LDI 1095 ON	21.052	0510BIT NO 6 VERIFY
	IU	LDI 1097 ON	21.052	0512BIT NO 8 VERIFY
	IU	DDA 2086 OFF	21.052	5162VXK0003-603
	IU	DDA 2095 ON	21.052	5168VXK0008-603
S4B		LDO 1806 OFF	21.064	4501ENG HE CONT SOL ENERGIZE
S4B		MDI 1809 ON	21.068	3839MAIN FUEL VLV CLOSED
S4B		LDO 1782 OFF	21.076	4479LOX TANK NOT OVERFILLED
S4B		LDO 1844 ON	21.120	4535SW SEL ZERO
S4B		LDO 1809 ON	21.156	4504MAIN FUEL VLV CLOSED
S1B	IU	MDI 2308 ON	21.188	3768READ COMMAND
S1B	IU	LDI 0983 ON	21.192	0463SW SEL READ
	IU	LDI 1102 ON	21.192	0516SW SEL READ
S1B		DDA 2085 ON	21.192	5161VXK0006-603
S1B		DDA 2149 ON	21.196	4134VK0004-603
S1B	IU	MDI 2306 OFF	21.216	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	21.216	3768READ COMMAND
	IU	LDI 0983 OFF	21.228	0463SW SEL READ
	IU	LDI 1098 OFF	21.228	0513IU STAGE SELECTOR
	IU	LDI 1102 OFF	21.228	0516SW SEL READ
	IU	MDI 0817 OFF	21.228	3517REG CONT BIT 2 VERIFY IN
S1B		DDA 2085 OFF	21.228	5161VXK0006-603
S1B		DDA 2087 OFF	21.228	5163VXK0005-603
	IU	MDI 0782 ON	21.232	3482SW SEL ZERO IND
	IU	MDI 0820 ON	21.232	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON	21.232	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	21.232	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2149 OFF	21.232	4134VK0004-603
S1B		DDA 2086 OFF	21.232	5162VXK0003-603

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S1B		DDA 2099 OFF 21.232 5172VXK0008-603
	IU	LDI 1091 OFF 21.236 0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF 21.236 0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF 21.236 5166VXK0008-603
S1B		DDA 2096 OFF 21.236 5169VXK0008-603
	IU	LDI 1094 OFF 21.240 0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF 21.240 0510BIT NO 6 VERIFY
S1B	IU	MDI 2306 ON 21.240 3766IU STAGE SEL
S1B		DDA 2095 OFF 21.240 5168VXK0008-603
S1B		DDA 2110 OFF 21.240 5183VXK0020-602
	IU	MDI 0816 OFF 21.248 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 21.248 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 21.248 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 21.248 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 21.248 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 21.248 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 21.248 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 21.248 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2087 ON 21.248 5163VXK0005-603
S1B		DDA 2090 ON 21.248 5165VXK0008-603
S1B		DDA 2096 ON 21.248 5169VXK0008-603
S1B		DDA 2099 ON 21.248 5172VXK0008-603
S1B		DDA 2100 ON 21.248 5173VXK0008-603
	IU	LDI 1091 ON 21.252 0506BIT NO 2 VERIFY
	IU	LDI 1094 ON 21.252 0509BIT NO 5 VERIFY
	IU	LDI 1095 ON 21.252 0510BIT NO 6 VERIFY
	IU	LDI 1097 ON 21.252 0512BIT NO 8 VERIFY
	IU	LDI 1098 ON 21.252 0513IU STAGE SELECTOR
S1B		DDA 2095 ON 21.252 5168VXK0008-603
S1B		DDA 2094 ON 21.256 5167VXK0008-603
S1B		DDA 2093 ON 21.256 5166VXK0008-603
	IU	LDI 1092 ON 21.260 0507BIT NO 3 VERIFY
	IU	LDI 1093 ON 21.260 0508BIT NO 4 VERIFY
	IU	LDI 1096 ON 21.260 0511BIT NO 7 VERIFY
S1B	IU	MDI 2306 OFF 21.276 3766IU STAGE SEL
S1B	IU	MDI 2307 ON 21.276 3767RESET COMMAND
S1B 241	IU	-3- 000 RESET 21.276
	IU	LDI 1103 ON 21.284 0517RESET COMMAND
	IU	MDI 0816 ON 21.284 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 21.284 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 21.284 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 21.284 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 21.284 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 21.284 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 21.284 3522REG CONT BIT 7 VERIFY IN

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	IU	MDI 0823 ON	21.284	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON	21.284	5160VXK0007-603
S1B		DDA 2087 OFF	21.284	5163VXK0005-603
	IU	LDI 1098 OFF	21.288	0513IU STAGE SELECTOR
	IU	LDI 1091 OFF	21.292	0506BIT NO 2 VERIFY
S1B	IU	MDI 2307 OFF	21.292	3767RESET COMMAND
S1B	IU	DDA 2099 OFF	21.292	5172VXK0008-603
	IU	LDI 1090 OFF	21.296	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	21.296	0507BIT NO 3 VERIFY
	IU	LDI 1093 OFF	21.296	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	21.296	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	21.296	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	21.296	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	21.296	0512BIT NO 8 VERIFY
S1B		DDA 2094 OFF	21.296	5167VXK0008-603
S1B		DDA 2095 OFF	21.296	5168VXK0008-603
S1B		DDA 2096 OFF	21.296	5169VXK0008-603
S1B		DDA 2098 OFF	21.296	5171VXK0008-603
S1B		DDA 2100 OFF	21.296	5173VXK0008-603
	IU	LDI 1098 ON	21.300	0513IU STAGE SELECTOR
S1B		DDA 2087 ON	21.300	5163VXK0005-603
	IU	LDI 1103 OFF	21.304	0517RESET COMMAND
	IU	MDI 0782 OFF	21.304	3482SW SEL ZERO IND
	IU	MDI 0816 OFF	21.304	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	21.304	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	21.304	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	21.304	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	21.304	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	21.304	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	21.304	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF	21.304	5160VXK0007-603
	IU	LDI 1091 ON	21.308	0506BIT NO 2 VERIFY
	IU	MDI 0816 ON	21.308	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	21.308	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	21.308	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	21.308	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	21.308	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	21.308	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 OFF	21.308	5162VXK0003-603
S1B		DDA 2099 ON	21.308	5172VXK0008-603
S1B	IU	MDI 2308 ON	21.388	3768READ COMMAND
S1B S4B	IU	-3- 375 READ	21.388	
S1B		DDA 2149 ON	21.396	4134VXK0004-603
	IU	LDI 0983 ON	21.400	0463SW SEL READ

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	IU	LDI 1102 ON	21.400	0516SW SEL READ
S1B		DDA 2085 ON	21.400	5161VXK0006-603
S1B	IU	MDI 2306 OFF	21.416	3766IU STAGE SEL
S1B	IU	MDI 2308 OFF	21.416	3768READ COMMAND
	IU	LDI 0983 OFF	21.428	0463SW SEL READ
	IU	LDI 1099 OFF	21.428	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	21.428	0516SW SEL READ
S1B		DDA 2087 OFF	21.428	5163VXK0005-603
S1B		DDA 2087 OFF	21.428	5163VXK0005-603
	IU	MDI 0782 ON	21.432	3482SW SEL ZERO IND
	IU	MDI 0817 ON	21.432	3517REG CONT BIT 2 VERIFY IN
S1B		DDA 2149 OFF	21.432	4134VXK0004-603
S1B		DDA 2086 ON	21.432	5162VXK0003-603
S1B		DDA 2099 OFF	21.432	5172VXK0008-603
	IU	LDI 1091 OFF	21.436	0506BIT NO 2 VERIFY
S1B	IU	MDI 2305 ON	21.460	3765S-IVB STAGE SEL
S4B		MDI 1844 OFF	21.464	3928SW SEL ZERO
	IU	LDI 1099 ON	21.468	0514S-IVB STAGE SELECTOR
	IU	MDI 0816 OFF	21.468	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	21.468	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 OFF	21.468	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	21.468	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	21.468	5164VXK0005-603
	IU	LDI 1090 ON	21.476	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	21.476	0506BIT NO 2 VERIFY
	IU	LDI 1096 ON	21.476	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	21.476	0512BIT NO 8 VERIFY
S1B		DDA 2093 ON	21.476	5167VXK0008-603
S1B		DDA 2094 ON	21.476	5167VXK0008-603
S1B		DDA 2099 ON	21.476	5172VXK0008-603
S1B		DDA 2100 ON	21.476	5173VXK0008-603
S4B		LDI 1844 OFF	21.516	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	21.592	3768READ COMMAND
S1B	S4B IU	-2- 074 READ	21.592	
	S4B	MDI 1704 ON	21.596	3082AUX HYD PUMP FLT REL RSE
	S4B	MDI 1705 OFF	21.596	3083AUX HYD PUMP POWER ON
	S4B	MDI 1992 OFF	21.596	3984AUX HYD P FLT REL RS OFF
	IU	LDI 0983 ON	21.500	0463SW SEL READ
	IU	LDI 1102 ON	21.500	0516SW SEL READ
S4B		MDI 1837 ON	21.500	3921RDY FOR 4D411. PWR
S1B		DDA 2085 ON	21.500	5161VXK0006-603
S1B		DDA 2029 ON	21.504	4080VXK0128-404
S1B	IU	MDI 2305 OFF	21.520	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	21.520	3768READ COMMAND
	IU	LDI 0983 OFF	21.528	0463SW SEL READ
	IU	LDI 1099 OFF	21.528	0514S-IVB STAGE SELECTOR

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	IU	LDI 1102 OFF	21.628	0516SW SEL READ
S4B		MDI 1844 ON	21.628	3928SW SEL ZERO
S1B		DDA 2085 OFF	21.628	5161VXK0006-603
S1B		DDA 2088 OFF	21.628	5164VXK0005-603
	IU	MDI 0816 ON	21.632	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	21.632	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 ON	21.632	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	21.632	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 OFF	21.636	0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF	21.636	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	21.636	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	21.636	5166VXK0008-603
S1B		DDA 2094 OFF	21.636	5167VXK0008-603
S1B		DDA 2099 OFF	21.636	5172VXK0008-603
S1B		DDA 2100 OFF	21.636	5173VXK0008-603
	IU	LDI 1096 OFF	21.640	0511BIT NO 7 VERIFY
S1B	IU	MDI 2305 ON	21.640	3765S-IVB STAGE SEL
S1B		DDA 2029 OFF	21.640	4080VXK0128-404
	S4B	MDI 1844 OFF	21.644	3928SW SEL ZERO
	IU	MDI 0816 OFF	21.648	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	21.648	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0821 OFF	21.648	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	21.648	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON	21.648	5166VXK0008-603
S1B		DDA 2094 ON	21.648	5167VXK0008-603
S1B		DDA 2099 ON	21.648	5172VXK0008-603
S1B		DDA 2100 ON	21.648	5173VXK0008-603
	IU	LDI 1090 ON	21.652	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	21.652	0506BIT NO 2 VERIFY
	IU	LDI 1096 ON	21.652	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	21.652	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	21.652	0514S-IVB STAGE SELECTOR
	IU	LDI 1095 ON	21.660	0510BIT NO 6 VERIFY
S1B	IU	MDI 2305 OFF	21.660	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	21.660	3767RESET COMMAND
S1B	S4B	-2- 134 RESET	21.660	
	S4B	LDO 1704 ON	21.660	4765AUX HYD PUMP FLT REL RSE
S1B		DDA 2095 ON	21.660	5168VXK0008-603
	IU	LDI 1096 OFF	21.664	0511BIT NO 7 VERIFY
	S4B	MDI 1844 ON	21.664	3928SW SEL ZERO
	S4B	LDO 1705 OFF	21.664	4766AUX HYD PUMP POWER ON
S1B		DDA 2084 ON	21.664	5160VXK0007-603
S1B		DDA 2094 OFF	21.664	5167VXK0008-603
	IU	LDI 1099 OFF	21.668	0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON	21.668	0517RESET COMMAND

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	10	MDI 0816 ON	21.668	3516REG CONT BIT 1 VERIFY IN
	10	MDI 0817 ON	21.668	3517REG CONT BIT 2 VERIFY IN
	10	MDI 0823 ON	21.668	3523REG CONT BIT 8 VERIFY IN
310		DDA 2088 OFF	21.668	5164VXK0005-603
	10	MDI 0821 ON	21.672	3521REG CONT BIT 6 VERIFY IN
340		LDT 1837 ON	21.672	4528RDY FOR 4D411 PWR
	10	LDT 1091 OFF	21.676	0506BIT NO 2 VERIFY
310		DDA 2099 OFF	21.676	5167VXK0008-603
	10	LDT 1090 OFF	21.680	0505BIT NO 1 VERIFY
	10	LDT 1095 OFF	21.680	0510BIT NO 6 VERIFY
	10	LDT 1097 OFF	21.680	0512BIT NO 8 VERIFY
310		DDA 2093 OFF	21.680	5166VXK0008-603
310		DDA 2095 OFF	21.680	5168VXK0008-603
310		MDI 2100 OFF	21.680	5173VXK0008-603
340		LDT 1992 OFF	21.684	4712AUX HYD P FLT REL RS OFF
310	10	MDI 2305 ON	21.692	3765S-IVR STAGE SEL
310	10	MDI 2307 OFF	21.692	3767RESET COMMAND
	10	LDT 1099 ON	21.700	0514S-IVR STAGE SELECTOR
340		MDI 1844 OFF	21.700	3928SW SEL ZERO
310		DDA 2088 ON	21.700	5164VXK0005-603
	10	LDT 1103 OFF	21.704	0517RESET COMMAND
	10	MDI 0816 OFF	21.704	3516REG CONT BIT 1 VERIFY IN
	10	MDI 0817 OFF	21.704	3517REG CONT BIT 2 VERIFY IN
	10	MDI 0818 OFF	21.704	3518REG CONT BIT 3 VERIFY IN
	10	MDI 0819 OFF	21.704	3519REG CONT BIT 4 VERIFY IN
	10	MDI 0820 OFF	21.704	3520REG CONT BIT 5 VERIFY IN
	10	MDI 0822 OFF	21.704	3522REG CONT BIT 7 VERIFY IN
	10	MDI 0823 OFF	21.704	3523REG CONT BIT 8 VERIFY IN
310		DDA 2084 OFF	21.704	5160VXK0007-603
	10	LDT 1091 ON	21.708	0506BIT NO 2 VERIFY
	10	LDT 1092 ON	21.708	0507BIT NO 3 VERIFY
	10	LDT 1093 ON	21.708	0508BIT NO 4 VERIFY
	10	LDT 1094 ON	21.708	0509BIT NO 5 VERIFY
	10	LDT 1095 ON	21.708	0511BIT NO 7 VERIFY
	10	MDI 0816 ON	21.708	3516REG CONT BIT 1 VERIFY IN
	10	MDI 0823 ON	21.708	3523REG CONT BIT 8 VERIFY IN
310		DDA 2094 ON	21.708	5167VXK0008-603
310		DDA 2096 ON	21.708	5169VXK0008-603
310		DDA 2098 ON	21.708	5171VXK0008-603
310		DDA 2099 ON	21.708	5172VXK0008-603
340		LDO 1844 ON	21.720	4535SW SEL ZERO
340		LDO 1844 OFF	21.732	4535SW SEL ZERO
340		LDO 1844 ON	21.764	4535SW SEL ZERO
340		LDO 1844 OFF	21.776	4535SW SEL ZERO
310	10	MDI 2306 ON	21.792	3768READ COMMAND
310	340	10	21.792	3768READ COMMAND

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	IU	LDI 0983 ON	21.800	0463SW SEL READ
	IU	LDI 1102 ON	21.800	0516SW SEL READ
S4B		MDI 1676 OFF	21.800	3068LOX TK NPV VLV FULL CL
S1B		DDA 2085 ON	21.800	5161VXK0006-603
S1B		DDA 2029 ON	21.804	4080VK0128-404
S1B	IU	MDI 2305 OFF	21.820	3765S-IVR STAGE SEL
S1B	IU	MDI 2308 OFF	21.820	3768READ COMMAND
	IU	LDI 0983 OFF	21.828	0463SW SEL READ
	IU	LDI 1099 OFF	21.828	0514S-IVR STAGE SELECTOR
	IU	LDI 1172 OFF	21.828	0514S-IVR STAGE SELECTOR
S4B		MDI 1844 ON	21.828	3928SW SEL ZERO
S1B		DDA 2085 OFF	21.828	5161VXK0006-603
S1B		DDA 2086 OFF	21.828	5164VXK0005-603
	IU	MDI 0817 ON	21.832	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	21.832	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	21.832	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON	21.832	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	21.832	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2099 OFF	21.832	5172VXK0008-603
	IU	LDI 1091 OFF	21.836	0507BIT NO 2 VERIFY
	IU	LDI 1092 OFF	21.836	0507BIT NO 3 VERIFY
S1B		DDA 2094 OFF	21.836	5167VXK0008-603
S1B		DDA 2096 OFF	21.836	5169VXK0008-603
S1B		DDA 2098 OFF	21.836	5171VXK0008-603
	IU	LDI 1093 OFF	21.840	0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF	21.840	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	21.840	0511BIT NO 7 VERIFY
S1B		DDA 2029 OFF	21.840	4080VK0128-404
S1B		DDA 2029 OFF	21.840	4080VK0128-404
S4B		MDI 1844 OFF	21.844	3928SW SEL ZERO
S4B		LDO 1676 OFF	21.844	4751LOX TK NPV VLV FULL CL
	IU	MDI 0816 OFF	21.848	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	21.848	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	21.848	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	21.848	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	21.848	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 ON	21.848	5164VXK0005-603
S1B		DDA 2093 ON	21.848	5166VXK0008-603
S1B		DDA 2094 ON	21.848	5167VXK0008-603
S1B		DDA 2098 ON	21.848	5171VXK0008-603
S1B		DDA 2099 ON	21.848	5172VXK0008-603
S1B		DDA 2100 ON	21.848	5173VXK0008-603
	IU	LDI 1090 ON	21.852	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	21.852	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	21.852	0507BIT NO 3 VERIFY

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	IU	LDI 1093 ON	21.852	0506BIT NO 4 VERIFY
	IU	LDI 1094 ON	21.852	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	21.852	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	21.852	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	21.852	0514S-IVB STAGE SELECTOR
	IU	LDI 1095 ON	21.860	0510BIT NO 6 VERIFY
S1B	IU	MDI 2305 OFF	21.860	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	21.860	3767RESET COMMAND
S1B S4B	IU	-2- 124 RESET	21.860	
S1B		DDA 2095 ON	21.860	5168VXK0008-603
S1B		DDA 2098 OFF	21.860	5171VXK0008-603
	IU	LDI 1092 OFF	21.864	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	21.864	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	21.864	0511BIT NO 7 VERIFY
S4B		MDI 1844 ON	21.864	3928SW SEL ZERO
S1B		DDA 2084 ON	21.864	5160VXK0007-603
S1B		DDA 2094 OFF	21.864	5167VXK0008-603
S1B		DDA 2096 OFF	21.864	5169VXK0008-603
	IU	LDI 1099 OFF	21.868	0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON	21.868	0517RESET COMMAND
S4B		MDI 1675 ON	21.868	3067LOX TK NFV VLV FULL OPEN
	IU	MDI 0816 ON	21.868	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	21.868	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	21.868	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	21.868	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON	21.868	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF	21.868	5164VXK0005-603
	IU	LDI 1091 OFF	21.876	0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF	21.876	5172VXK0008-603
	IU	LDI 1090 OFF	21.880	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	21.880	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	21.880	0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF	21.880	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	21.880	5166VXK0008-603
S1B		DDA 2095 OFF	21.880	5168VXK0008-603
S1B		DDA 2097 OFF	21.880	5170VXK0008-603
S4B		LDI 1844 ON	21.884	4535SW SEL ZERO
S1B	IU	MDI 2305 ON	21.892	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF	21.892	3767RESET COMMAND
	IU	LDI 1099 ON	21.900	0514S-IVB STAGE SELECTOR
S4B		MDI 1844 OFF	21.900	3928SW SEL ZERO
S1B		DDA 2088 ON	21.900	5164VXK0005-603
	IU	LDI 1103 OFF	21.904	0517RESET COMMAND
	IU	MDI 0816 OFF	21.904	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	21.904	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	21.904	3518REG CONT BIT 3 VERIFY IN

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	IU	MDI 0819 OFF	21.904	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	21.904	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	21.904	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2084 OFF	21.904	5160VXK0007-603
	IU	LDI 1091 ON	21.908	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	21.908	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	21.908	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	21.908	0511BIT NO 7 VERIFY
	IU	MDI 0816 ON	21.908	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0819 ON	21.908	3519REG CONT BIT 4 VERIFY IN
S1B		DDA 2094 ON	21.908	5167VXK0008-603
S1B		DDA 2098 ON	21.908	5171VXK0008-603
S1B		DDA 2099 ON	21.908	5172VXK0008-603
S1B		LDO 1844 OFF	21.924	4535SW SEL ZERO
		LDO 1675 ON	21.932	4750LOX TK NPV VLV FULL OPEN
		LDO 1844 ON	21.940	4535SW SEL ZERO
		LDO 1844 OFF	21.940	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	21.992	3768READ COMMAND
S1B S4B	IU	-2- 251 READ	21.992	
	IU	LDI 0983 ON	22.000	0463SW SEL READ
	IU	LDI 1102 ON	22.000	0516SW SEL READ
		MDI 1930 OFF	22.000	3940LH LATCH RLF VLV CLOSE
S1B		DDA 2085 ON	22.000	5161VXK0006-603
S1B		DDA 2029 ON	22.004	4080VK0128-404
S1B	IU	MDI 2305 OFF	22.020	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	22.020	3768READ COMMAND
	IU	LDI 0983 OFF	22.028	0463SW SEL READ
	IU	LDI 1099 OFF	22.028	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	22.028	0516SW SEL READ
S4B		MDI 1844 ON	22.028	3928SW SEL ZERO
S1B		DDA 2085 OFF	22.028	5161VXK0006-603
S1B		DDA 2088 OFF	22.028	5164VXK0005-603
	IU	MDI 0817 ON	22.032	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	22.032	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON	22.032	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	22.032	3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1091 OFF	22.036	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	22.036	0507BIT NO 3 VERIFY
S1B		DDA 2094 OFF	22.036	5167VXK0008-603
S1B		DDA 2096 OFF	22.036	5169VXK0008-603
S1B		DDA 2098 OFF	22.036	5171VXK0008-603
S1B		DDA 2099 OFF	22.036	5172VXK0008-603
	IU	LDI 1094 OFF	22.040	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	22.040	0511BIT NO 7 VERIFY
S1B		DDA 2029 OFF	22.040	4080VK0128-404

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S4B		LDO 1930 OFF	22.048	4548LH LATCH RLF VLV CLOSE
S4B		MDI 1931 ON	22.064	3941LH LATCH RLF VLV OPEN
S4B		LDO 1844 ON	22.080	4535SW SEL ZERO
S4B		LDO 1931 ON	22.116	4549LH LATCH RLF VLV OPEN
S1B	IU	MDI 2305 ON	22.636	3765S-IVB STAGE SEL
	IU	LDI 1099 ON	22.640	0514S-IVB STAGE SELECTOR
S4B		MDI 1844 OFF	22.640	3928SW SEL ZERO
S1B		DDA 2088 ON	22.640	5164VXK0005-603
	IU	MDI 0816 OFF	22.644	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	22.644	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	22.644	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	22.644	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	22.644	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	22.644	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON	22.648	5166VXK0008-603
S1B		DDA 2094 ON	22.648	5167VXK0008-603
S1B		DDA 2099 ON	22.648	5172VXK0008-603
S1B		DDA 2100 ON	22.648	5173VXK0008-603
	IU	LDI 1090 ON	22.652	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	22.652	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	22.652	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	22.652	0510BIT NO 6 VERIFY
	IU	LDI 1096 ON	22.652	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	22.652	0512BIT NO 8 VERIFY
S1B		DDA 2095 ON	22.652	5168VXK0008-603
S1B	IU	MDI 2305 OFF	22.660	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	22.660	3767RESET COMMAND
S1B S4B	IU	-2- 024 RESET	22.660	
S4B		MDI 1844 ON	22.664	3928SW SEL ZERO
S1B		DDA 2084 ON	22.664	5160VXK0007-603
	IU	LDI 1091 OFF	22.668	0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF	22.668	0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON	22.668	0517RESET COMMAND
	IU	MDI 0816 ON	22.668	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	22.668	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	22.668	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 ON	22.668	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	22.668	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	22.668	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF	22.668	5164VXK0005-603
S1B		DDA 2093 OFF	22.668	5166VXK0008-603
S1B		DDA 2094 OFF	22.668	5167VXK0008-603
S1B		DDA 2100 OFF	22.668	5173VXK0008-603
	IU	LDI 1090 OFF	22.672	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	22.672	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	22.672	0510BIT NO 6 VERIFY

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	IU	LDI 1096 OFF 22.672 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 22.672 0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 ON 22.672 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF 22.672 3767RESET COMMAND
S1B		DDA 2094 OFF 22.672 5167VXK0008-603
S1B		DDA 2095 OFF 22.672 5168VXK0008-603
	IU	LDI 1099 ON 22.684 0514S-IVB STAGE SELECTOR
S4B		MDI 1844 OFF 22.684 3928SW SEL ZERO
S1B		DDA 2084 OFF 22.684 5160VXK0007-603
S1B		DDA 2088 ON 22.684 5164VXK0005-603
	IU	LDI 1103 OFF 22.688 0517RESET COMMAND
	IU	MDI 0817 OFF 22.688 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 22.688 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 OFF 22.688 3520REG CONT BIT 5 VERIFY IN
S4B		LDO 1844 OFF 22.688 4535SW SEL ZERO
	IU	LDI 1091 ON 22.692 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 22.692 0507BIT NO 3 VERIFY
	IU	LDI 1094 ON 22.692 0509BIT NO 5 VERIFY
S1B		DDA 2096 ON 22.692 5169VXK0008-603
S1B		DDA 2098 ON 22.692 5171VXK0008-603
S1B		DDA 2099 ON 22.692 5172VXK0008-603
S4B		LDO 1844 ON 22.724 4535SW SEL ZERO
S4B		LDO 1844 OFF 22.764 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 22.808 3766READ COMMAND
S1B S4B	IU	-2- 351 READ 22.808
	IU	LDI 0983 ON 22.816 0463SW SEL READ
	IU	LDI 1102 ON 22.816 0516SW SEL READ
S1B		DDA 2085 ON 22.816 5161VXK0006-603
S4B		MDI 1710 OFF 22.820 3088LOX PREVALVE OPEN
S4B		MDI 1711 OFF 22.820 3089LH PREVALVE OPEN
S1B		DDA 2029 ON 22.820 4080VK0128-404
S1B	IU	MDI 2305 OFF 22.836 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 22.836 3766READ COMMAND
	IU	LDI 0983 OFF 22.844 0463SW SEL READ
	IU	LDI 1099 OFF 22.844 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 22.844 0516SW SEL READ
S4B		MDI 1844 ON 22.844 3928SW SEL ZERO
S1B		DDA 2085 OFF 22.844 5161VXK0006-603
S1B		DDA 2088 OFF 22.844 5164VXK0005-603
	IU	MDI 0817 ON 22.848 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 22.848 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON 22.848 3520REG CONT BIT 5 VERIFY IN
	IU	LDI 1091 OFF 22.852 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 22.852 0507BIT NO 3 VERIFY
S1B		DDA 2096 OFF 22.852 5169VXK0008-603
S1B		DDA 2098 OFF 22.852 5171VXK0008-603

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S1B		DDA 2099 OFF 22.852 5172VXK0008-603
	IU	LDI 1094 OFF 22.856 0509BIT NO 5 VERIFY
S1B		DDA 2029 OFF 22.856 4080VK0128-404
S1B	IU	MDI 2305 ON 22.860 3765S-IVB STAGE SEL
	IU	MDI 0817 OFF 22.864 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 22.864 3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844 OFF 22.864 3928SW SEL ZERO
S4B		LDO 1710 OFF 22.864 4771LOX PREVALVE OPEN
S4B		LDO 1711 OFF 22.864 4772LH PREVALVE OPEN
S1B		DDA 2088 ON 22.864 5164VXK0005-603
S1B		DDA 2096 ON 22.864 5169VXK0008-603
S1B		DDA 2098 ON 22.864 5171VXK0008-603
S1B		DDA 2099 ON 22.864 5172VXK0008-603
	IU	LDI 1091 ON 22.868 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 22.868 0507BIT NO 3 VERIFY
	IU	LDI 1094 ON 22.868 0509BIT NO 5 VERIFY
	IU	LDI 1099 ON 22.868 0514S-IVB STAGE SELECTOR
	IU	MDI 0818 ON 22.868 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 22.868 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF 22.868 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 22.868 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1093 ON 22.876 0508BIT NO 4 VERIFY
	IU	LDI 1095 ON 22.876 0510BIT NO 6 VERIFY
	IU	LDI 1097 ON 22.876 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 22.876 5166VXK0008-603
S1B		DDA 2095 ON 22.876 5168VXK0008-603
S1B		DDA 2096 OFF 22.876 5171VXK0008-603
	IU	LDI 1092 OFF 22.880 0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF 22.880 0509BIT NO 5 VERIFY
S1B		DDA 2096 OFF 22.880 5169VXK0008-603
S4B		LDO 1844 ON 22.900 4535SW SEL ZERO
S4B		LDO 1844 OFF 22.944 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 23.324 3768READ COMMAND
S1B S4B	IU	-2- 125 READ 23.324
	IU	LDI 0983 ON 23.332 0463SW SEL READ
	IU	LDI 1102 ON 23.332 0516SW SEL READ
S4B		MDI 1706 OFF 23.332 3084LOX CLDN VALVE OPEN
S4B		MDI 1707 OFF 23.332 3085LH CLDN VALVE OPEN
S1B		DDA 2085 ON 23.332 5161VXK0006-603
S4B		MDI 2645 ON 23.336 2700LOX CLDN VALVE CLOSED
S4B		MDI 2646 ON 23.336 2701LH CLDN VALVE CLOSED
S1B		DDA 2099 ON 23.336 5172VXK0008-603
S1B	IU	MDI 2305 OFF 23.356 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 23.356 3768READ COMMAND
	IU	LDI 0983 OFF 23.368 0463SW SEL READ
	IU	LDI 1099 OFF 23.368 0514S-IVB STAGE SELECTOR

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	IU	LDI 1102 OFF 23.368 0516SW SEL READ
	IU	MDI 0817 ON 23.368 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 23.368 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON 23.368 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 ON 23.368 3928SW SEL ZERO
S1B		DDA 2085 OFF 23.368 5161VXK0006-603
S1B		DDA 2088 OFF 23.368 5164VXK0005-603
	IU	MDI 0821 ON 23.372 3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2029 OFF 23.372 4080VK0128-404
	IU	LDI 1091 OFF 23.376 0506BIT NO 2 VERIFY
S1B		DDA 2093 OFF 23.376 5166VXK0008-603
S1B		DDA 2099 OFF 23.376 5172VXK0008-603
	IU	LDI 1093 OFF 23.380 0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF 23.380 0510BIT NO 6 VERIFY
	IU	LDI 1097 OFF 23.380 0512BIT NO 8 VERIFY
S1B		DDA 2095 OFF 23.380 5168VXK0008-603
S4B		LDO 1707 OFF 23.384 4768LH CLDN VALVE OPEN
S4B		LDO 1706 OFF 23.388 4767LOX CLDN VALVE OPEN
S1B	IU	MDI 2305 ON 23.396 3765S-IVB STAGE SEL
S4B		MDI 1844 OFF 23.396 3928SW SEL ZERO
	IU	LDI 1099 ON 23.400 0514S-IVB STAGE SELECTOR
	IU	MDI 0817 OFF 23.400 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 23.400 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF 23.400 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF 23.400 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2086 ON 23.400 5164VXK0005-603
	IU	MDI 0816 OFF 23.404 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0821 ON 23.404 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF 23.404 3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1090 ON 23.408 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 23.408 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 23.408 0508BIT NO 4 VERIFY
	IU	LDI 1096 ON 23.408 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 23.408 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 23.408 5166VXK0008-603
S1B		DDA 2094 ON 23.408 5167VXK0008-603
S1B		DDA 2099 ON 23.408 5172VXK0008-603
S1B		DDA 2100 ON 23.408 5173VXK0008-603
S4B		LDO 1844 ON 23.424 4535SW SEL ZERO
S1B	IU	MDI 2305 OFF 23.428 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON 23.428 3767RESET COMMAND
S1B S4B	IU	-2- 064 RESET 23.428
	IU	LDI 1103 ON 23.432 0517RESET COMMAND
S4B		MDI 1844 ON 23.432 3928SW SEL ZERO
S1B		DDA 2084 ON 23.432 5160VXK0007-603
	IU	LDI 1099 OFF 23.436 0514S-IVB STAGE SELECTOR

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	IU	MDI 0816 ON	23.436	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	23.436	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	23.436	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 0	23.436	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	23.436	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2088 OFF	23.436	5164VXK0005-603
	IU	LDI 1091 OFF	23.444	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	23.444	0512BIT NO 8 VERIFY
S18	IU	MDI 2305 ON	23.444	3765S-IVB STAGE SEL
S18	IU	MDI 2307 OFF	23.444	3767RESET COMMAND
S18		DDA 2093 OFF	23.444	5166VXK0008-603
S18		DDA 2094 OFF	23.444	5167VXK0008-603
S18		DDA 2099 OFF	23.444	5172VXK0008-603
S18		DDA 2100 OFF	23.444	5173VXK0008-603
	IU	LDI 1090 OFF	23.448	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	23.448	0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF	23.448	0511BIT NO 7 VERIFY
	IU	LDI 1099 ON	23.448	0514S-IVB STAGE SELECTOR
S18		DDA 2088 ON	23.448	5164VXK0005-603
	IU	LDI 1091 OFF	23.452	0517BIT NO 3 VERIFY
S18		DDA 2084 OFF	23.452	5160VXK0007-603
	IU	MDI 0816 OFF	23.456	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	23.456	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	23.456	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	23.456	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	23.456	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF	23.456	3928SW SEL ZERO
S18		DDA 2093 ON	23.456	5166VXK0008-603
S18		DDA 2094 ON	23.456	5167VXK0008-603
S18		DDA 2099 ON	23.456	5172VXK0008-603
S18		DDA 2100 ON	23.456	5173VXK0008-603
	IU	LDI 1090 ON	23.460	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	23.460	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	23.460	0508BIT NO 4 VERIFY
	IU	LDI 1096 ON	23.460	0511BIT NO 7 VERIFY
	IU	LDI 1097 0	23.460	0512BIT NO 8 VERIFY
	IU	MDI 0816 ON	23.460	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 OFF	23.460	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	23.460	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF	23.460	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF	23.460	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	23.460	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	23.460	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2098 ON	23.464	5171VXK0008-603
	IU	LDI 1092 ON	23.468	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	23.468	0509BIT NO 5 VERIFY

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	IU	LDI 1095 ON	23.468	0510BIT NO 6 VERIFY
S1B		DDA 2093 OFF	23.468	5166VXK0008-603
S1B		DDA 2095 OFF	23.468	5167VXK0008-603
S1B		DDA 2096 ON	23.468	5169VXK0008-603
S1B		DDA 2100 OFF	23.468	5173VXK0008-603
	IU	LDI 1092 OFF	23.472	0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF	23.472	0508BIT NO 4 VERIFY
	IU	LDI 1096 OFF	23.472	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	23.472	0512BIT NO 8 VERIFY
S4B		LDO 1844 OFF	23.472	4535SW SEL ZERO
S1B		DDA 2094 OFF	23.472	5167VXK0008-603
S4B		LDO 1844 ON	23.505	4535SW SEL ZERO
S4B		LDO 1844 OFF	23.560	4535SW SEL ZERO
S4B		MDI 2648	23.787	2702LOX PREVALVE CLOSED
S4B		MDI 2647 ON	23.788	2702LOX PREVALVE CLOSED
S1B	IU	MDI 2308 ON	23.788	3768READ COMMAND
S1B	S4B	IU	-2- 311	READ 23.788
	S4B	MDI 1735 OFF	23.792	3111LOX V/NPV BC-OP LTCH RST
	IU	LDI 0983 ON	23.800	0463SW SEL READ
	IU	LDI 1102 ON	23.800	0516SW SEL READ
		DDA 2095 ON	23.800	5161VXK0006-603
S1B		DDA 2029 ON	23.804	4080VK0128-404
S1B	IU	MDI 2305 OFF	23.824	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	23.824	3768READ COMMAND
	S4B	MDI 1844 ON	23.832	3928SW SEL ZERO
	IU	LDI 0983 OFF	23.836	0463SA SEL READ
	IU	LDI 1099 OFF	23.836	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	23.836	0516SW SEL READ
	IU	MDI 0817 ON	23.836	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	23.836	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON	23.836	3520REG CONT BIT 5 VERIFY IN
S1B		DDA 2085 OFF	23.836	5161VXK0006-603
S1B		DDA 2088 OFF	23.836	5164VXK0005-603
	IU	MDI 0821 ON	23.840	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2029 OFF	23.840	4080VK0128-404
	IU	LDI 1091 OFF	23.844	0507BIT NO 3 VERIFY
	IU	LDI 1092 OFF	23.844	0507BIT NO 3 VERIFY
S4B		LDO 1735 OFF	23.844	4796LOX V/NPV BC-OP LTCH RST
S1B		DDA 2096 OFF	23.844	5169VXK0008-603
S1B		DDA 2098 OFF	23.844	5171VXK0008-603
S1B		DDA 2099 OFF	23.844	5172VXK0008-603
	IU	LDI 1094 OFF	23.848	0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF	23.848	0510BIT NO 6 VERIFY
	IU	MDI 2305 ON	23.848	3765S-IVB STAGE SEL
		DDA 2095 OFF	23.848	5168VXK0008-603
		MDI 1844 OFF	23.852	3928SW SEL ZERO

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	IU	MDI 0816 OFF	23.856	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	23.856	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 OFF	23.856	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF	23.856	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	23.856	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2088 ON	23.856	5164VXK0005-603
S18		DDA 2093 ON	23.856	5166VXK0008-603
S18		DDA 2094 ON	23.856	5167VXK0008-603
S18		DDA 2096 ON	23.856	5169VXK0008-603
S18		DDA 2099 ON	23.856	5172VXK0008-603
S18		DDA 2100 ON	23.856	5173VXK0008-603
	IU	LDI 1090 ON	23.860	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	23.860	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	23.860	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	23.860	0511BIT NO 7 VERIFY
	IU	LDI 1097 ON	23.860	0512BIT NO 8 VERIFY
	IU	LDI 1099 ON	23.860	0514S-IVB STAGE SELECTOR
S18	IU	MDI 2305 OFF	23.868	3765S-IVB STAGE SEL
S18	IU	MDI 2307 ON	23.868	3767RESET COMMAND
S18 S4B	IU	-2- 054 RESET	23.868	
S4B		MDI 1844 ON	23.872	3928SW SEL ZERO
S18		DDA 2084 ON	23.872	5160VXK0007-603
	IU	LDI 1099 OFF	23.876	0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON	23.876	0517RESET COMMAND
	IU	MDI 0816 ON	23.876	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	23.876	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0820 ON	23.876	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON	23.876	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	23.876	3523REG CONT BIT 8 VERIFY IN
S18		DDA 2088 OFF	23.876	5164VXK0005-603
	IU	LDI 1091 OFF	23.884	0506BIT NO 2 VERIFY
S18	IU	MDI 2305 ON	23.884	3765S-IVB STAGE SEL
S18	IU	MDI 2307 OFF	23.884	3767RESET COMMAND
	S4B	LDO 1844 ON	23.884	4535SW SEL ZERO
S18		DDA 2093 OFF	23.884	5166VXK0008-603
S18		DDA 2099 OFF	23.884	5172VXK0008-603
	IU	LDI 1090 OFF	23.888	0505BIT NO 1 VERIFY
	IU	LDI 1094 OFF	23.888	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	23.888	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	23.888	0512BIT NO 8 VERIFY
		DDA 2094 OFF	23.888	5167VXK0008-603
		DDA 2096 OFF	23.888	5169VXK0008-603
		DDA 2100 OFF	23.888	5173VXK0008-603
	IU	LDI 1099 ON	23.892	0514S-IVB STAGE SELECTOR
		DDA 2084 OFF	23.892	5160VXK0007-603
		DDA 2088 ON	23.892	5164VXK0005-603

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	IU	LDI 1103 OFF	23.896	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0817 OFF	23.896	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0822 OFF	23.896	3523REG CONT BIT 8 VERIFY IN
S4B	IU	MDI 1844 OFF	23.896	3928SW SEL ZERO
	IU	LDI 1090 ON	23.900	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	23.900	0506BIT NO 2 VERIFY
	IU	LDI 1094 ON	23.900	0509BIT NO 5 VERIFY
	IU	LDI 1096 ON	23.900	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	23.900	0512BIT NO 8 VERIFY
	IU	MDI 0818 OFF	23.900	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	23.900	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	23.900	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	23.900	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON	23.900	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2093 ON	23.900	5166VXK0008-603
S1B		DDA 2094 ON	23.900	5167VXK0008-603
S1B		DDA 2095 ON	23.900	5168VXK0008-603
S1B		DDA 2099 ON	23.900	5172VXK0008-603
S1B		DDA 2100 OFF	23.900	5173VXK0008-603
	IU	LDI 1092 ON	23.908	0507BIT NO 3 VERIFY
	IU	LDI 1093 ON	23.908	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	23.908	0510BIT NO 6 VERIFY
S1B		DDA 2096 OFF	23.908	5169VXK0008-603
S1B		DDA 2098 ON	23.908	5171VXK0008-603
	IU	LDI 1090 OFF	23.912	0505BIT NO 1 VERIFY
	IU	LDI 1094 OFF	23.912	0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF	23.912	0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF	23.912	0512BIT NO 8 VERIFY
S1B		DDA 2094 OFF	23.912	5167VXK0008-603
S1B		DDA 2096 OFF	23.912	5169VXK0008-603
S1B		DDA 2100 OFF	23.912	5173VXK0008-603
S4B		LDO 1844 OFF	23.920	4535SW SEL ZERO
S4B		LDO 1844 ON	23.956	4535SW SEL ZERO
S4B		LDO 1844 OFF	23.968	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	23.988	3768READ COMMAND
S1B S4B	IU	-2- 321 READ	23.988	
	IU	LDI 0983 ON	23.992	0463SW SEL READ
	IU	LDI 1102 ON	23.992	0516SW SEL READ
S4B		MDI 1929 OFF	23.992	3939LH VLVS RC, L/R LTCH RST
S1B		DDA 2029 ON	23.992	4080VXK0128-404
S1B		DDA 2085 ON	24.002	5181VXK0008-603
S1B	IU	MDI 2305 OFF	24.024	3765S-IVE STAGE SEL
S1B	IU	MDI 2308 OFF	24.024	3768READ COMMAND
S4B		MDI 1844 ON	24.032	3926SW SEL ZERO

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	IU	LDI 0983	OFF	24.036	0463SW SEL READ
	IU	LDI 1099	OFF	24.036	0514S-IVR STAGE SELECTOR
	IU	LDI 1102	OFF	24.036	0516SW SEL READ
	IU	MDI 0817	ON	24.036	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	ON	24.036	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	ON	24.036	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	ON	24.036	3521REG CONT BIT 6 VERIFY IN
S4B		LDO 1929	OFF	24.036	4547LH VLVS BC, L/R LTCH RST
S18		DDA 2085	OFF	24.036	5161VXK0006-603
S18		DDA 2088	OFF	24.036	5164VXK0005-603
S18		DDA 2029	OFF	24.040	4080VK0128-404
	IU	LDI 1091	OFF	24.044	0506BIT NO 2 VERIFY
	IU	LDI 1092	OFF	24.044	0507BIT NO 3 VERIFY
S18		DDA 2098	OFF	24.044	5171VXK0008-603
S18		DDA 2099	OFF	24.044	5172VXK0008-603
	IU	LDI 1093	OFF	24.048	0508BIT NO 4 VERIFY
	IU	LDI 1095	OFF	24.048	0510BIT NO 6 VERIFY
S18		DDA 2095	OFF	24.048	5168VXK0008-603
S4B		LDO 1844	ON	24.083	4535SW SEL ZERO
S18	IU	MDI 2305	ON	24.636	3765S-IVR STAGE SEL
	IU	LDI 1099	OFF	24.640	0514S-IVR STAGE SELECTOR
S4B		MDI 1844	OFF	24.640	3928SW SEL ZERO
S18		DDA 2088	ON	24.640	5164VXK0005-603
	IU	MDI 0817	OFF	24.644	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818	OFF	24.644	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819	OFF	24.644	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821	OFF	24.644	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822	OFF	24.644	3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1096	ON	24.648	0511BIT NO 7 VERIFY
	IU	MDI 0823	OFF	24.648	3523REG CONT BIT 8 VERIFY IN
	IU	DDA 2094	ON	24.648	5167VXK0008-603
S18		DDA 2095	ON	24.648	5168VXK0008-603
S18		DDA 2096	ON	24.648	5169VXK0008-603
S18		DDA 2098	ON	24.648	5171VXK0008-603
S18		DDA 2099	ON	24.648	5172VXK0008-603
	IU	LDI 1091	ON	24.652	0506BIT NO 2 VERIFY
	IU	LDI 1092	ON	24.652	0507BIT NO 3 VERIFY
	IU	LDI 1093	ON	24.652	0508BIT NO 4 VERIFY
	IU	LDI 1094	ON	24.652	0509BIT NO 5 VERIFY
	IU	LDI 1095	ON	24.652	0510BIT NO 6 VERIFY
	IU	LDI 1097	ON	24.652	0512BIT NO 8 VERIFY
S4B		LDO 1844	OFF	24.692	4535SW SEL ZERO
S18	IU	MDI 2308	ON	24.788	3768READ COMMAND
S18	IU	-2-	001	READ	24.788

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	LDI 1102	ON	24.792	0516SW SEL READ
	DDA 2029	ON	24.792	4080VK0128-404
	DDA 2085	ON	24.792	5161VXK0006-603
S48	MDI 1675	OFF	24.796	3067LOX TK NPV VLV FULL OPEN
	MDI 2305	OFF	24.824	3765S-IVB STAGE SEL
	MDI 2308	OFF	24.824	3766READ COMMAND
	LDI 0983	OFF	24.836	0463SW SEL READ
	LDI 1099	OFF	24.836	0514S-IVB STAGE SELECTOR
	LDI 1102	OFF	24.836	0516SW SEL READ
	MDI 0817	OFF	24.836	3517REG CONT BIT 2 VERIFY IN
	MDI 0818	OFF	24.836	3518REG CONT BIT 3 VERIFY IN
	MDI 0819	OFF	24.836	3519REG CONT BIT 4 VERIFY IN
	MDI 0820	OFF	24.836	3520REG CONT BIT 5 VERIFY IN
	MDI 0822	OFF	24.836	3522REG CONT BIT 7 VERIFY IN
	MDI 0823	OFF	24.836	3523REG CONT BIT 8 VERIFY IN
S49	MDI 1844	OFF	24.836	3928SW SEL ZERO
	DDA 2085	OFF	24.836	5161VXK0006-603
	DDA 2088	OFF	24.836	5164VXK0005-603
	MDI 0821	OFF	24.840	3521REG CONT BIT 6 VERIFY IN
S49	LDO 1675	OFF	24.840	4750LOX TK NPV VLV FULL OPEN
	DDA 2099	OFF	24.840	5172VXK0008-603
	LDI 1091	OFF	24.844	0506BIT NO 2 VERIFY
	LDI 1092	OFF	24.844	0507BIT NO 3 VERIFY
	LDI 1097	OFF	24.844	0512BIT NO 8 VERIFY
	DDA 2093	OFF	24.844	5166VXK0008-603
	DDA 2094	OFF	24.844	5167VXK0008-603
	DDA 2096	OFF	24.844	5169VXK0008-603
	DDA 2098	OFF	24.844	5171VXK0008-603
	LDI 1093	OFF	24.848	0508BIT NO 4 VERIFY
	LDI 1094	OFF	24.848	0509BIT NO 5 VERIFY
	LDI 1095	OFF	24.848	0510BIT NO 6 VERIFY
	LDI 1096	OFF	24.848	0511BIT NO 7 VERIFY
	MDI 2305	OFF	24.848	3765S-IVB STAGE SEL
	DDA 2095	OFF	24.848	4080VK0128-404
	DDA 2095	OFF	24.848	5168VXK0008-603
S48	MDI 0818	OFF	24.852	3518REG CONT BIT 3 VERIFY IN
	MDI 1844	OFF	24.852	3928SW SEL ZERO
	MDI 0816	OFF	24.856	3516REG CONT BIT 1 VERIFY IN
	MDI 0817	OFF	24.856	3517REG CONT BIT 2 VERIFY IN
	MDI 0821	OFF	24.856	3521REG CONT BIT 6 VERIFY IN
	MDI 0823	OFF	24.856	3523REG CONT BIT 8 VERIFY IN
	DDA 2088	ON	24.856	5164VXK0005-603
	DDA 2093	ON	24.856	5166VXK0008-603
	DDA 2095	ON	24.856	5168VXK0008-603
	DDA 2098	ON	24.856	5171VXK0008-603

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S1B		DDA 2099 ON	24.856	5172VXK0008-603	
S1B		DDA 2100 ON	24.856	5173VXK0008-603	
	IU	LDI 1090 ON	24.860	0505BIT NO 1 VERIFY	
	IU	LDI 1091 ON	24.860	0506BIT NO 2 VERIFY	
	IU	LDI 1092 ON	24.860	0507BIT NO 3 VERIFY	
	IU	LDI 1095 ON	24.860	0510BIT NO 6 VERIFY	
	IU	LDI 1097 ON	24.860	0512BIT NO 8 VERIFY	
	IU	LDI 1099 ON	24.860	0514S-IVR STAGE SELECTOR	
S1B	IU	MDI 2305 OFF	24.868	3765S-IVR STAGE SEL	
S1B	IU	MDI 2307 ON	24.868	3767RESET COMMAND	
S1B S4B	IU	-2- 130 RESET	24.868		
		MDI 1844 ON	24.872	3928SW SEL ZERO	
S1B		DDA 2084 ON	24.872	5160VXK0007-603	
	IU	LDI 1099 OFF	24.876	0514S-IVR STAGE SELECTOR	
	IU	LDI 1103 ON	24.876	0517RESET COMMAND	
	IU	MDI 0816 ON	24.876	3516REG CONT BIT 1 VERIFY IN	
	IU	MDI 0817 ON	24.876	3517REG CONT BIT 2 VERIFY IN	
	IU	MDI 0818 ON	24.876	3518REG CONT BIT 3 VERIFY IN	
	IU	MDI 0821 ON	24.876	3521REG CONT BIT 6 VERIFY IN	
	IU	MDI 0823 ON	24.876	3523REG CONT BIT 8 VERIFY IN	
S1B		DDA 2088 OFF	24.876	5164VXK0005-603	
	IU	LDI 1091 OFF	24.884	0506BIT NO 2 VERIFY	
S1B	IU	MDI 2305 ON	24.884	3765S-IVR STAGE SEL	
S1B	IU	MDI 2307 OFF	24.884	3767RESET COMMAND	
S1B		DDA 2093 OFF	24.884	5166VXK0008-603	
S1B		DDA 2096 OFF	24.884	5171VXK0008-603	
S1B		DDA 2099 OFF	24.884	5172VXK0008-603	
	IU	LDI 1090 OFF	24.888	0505BIT NO 1 VERIFY	
	IU	LDI 1092 OFF	24.888	0507BIT NO 3 VERIFY	
	IU	LDI 1097 OFF	24.888	0512BIT NO 8 VERIFY	
S1B		DDA 2088 ON	24.888	5164VXK0005-603	
S1B		DDA 2095 OFF	24.888	5168VXK0008-603	
S1B		DDA 2100 OFF	24.888	5173VXK0008-603	
	IU	LDI 1099 ON	24.892	0514S-IVR STAGE SELECTOR	
		MDI 1844 ON	24.892	3928SW SEL ZERO	
S1B		DDA 2084 OFF	24.892	5160VXK0007-603	
	IU	LDI 1103 OFF	24.896	0517RESET COMMAND	
	IU	MDI 0816 OFF	24.896	3516REG CONT BIT 1 VERIFY IN	
	IU	MDI 0817 OFF	24.896	3517REG CONT BIT 2 VERIFY IN	
	IU	MDI 0818 OFF	24.896	3518REG CONT BIT 3 VERIFY IN	
	IU	MDI 0821 OFF	24.896	3521REG CONT BIT 6 VERIFY IN	
	IU	MDI 0822 OFF	24.896	3522REG CONT BIT 7 VERIFY IN	
	IU	MDI 0823 OFF	24.896	3523REG CONT BIT 8 VERIFY IN	
		MDI 1844 OFF	24.896	3928SW SEL ZERO	
	IU	LDI 1090 ON	24.900	0505BIT NO 1 VERIFY	

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	IU	LDI	1091	ON	24.900	0506BIT	NO 2	VERIFY	
	IU	LDI	1092	ON	24.900	0507BIT	NO 3	VERIFY	
	IU	LDI	1093	ON	24.900	0508BIT	NO 4	VERIFY	
	IU	LDI	1094	ON	24.900	0509BIT	NO 5	VERIFY	
	IU	LDI	1096	ON	24.900	0511BIT	NO 7	VERIFY	
	IU	LDI	1097	ON	24.900	0512BIT	NO 8	VERIFY	
	IU	MDI	0816	ON	24.900	3516REG	CONT BIT 1	VERIFY	IN
	IU	MDI	0818	ON	24.900	3518REG	CONT BIT 3	VERIFY	IN
	IU	MDI	0819	OFF	24.900	3519REG	CONT BIT 4	VERIFY	IN
	IU	MDI	0820	OFF	24.900	3520REG	CONT BIT 5	VERIFY	IN
	IU	MDI	0821	ON	24.900	3521REG	CONT BIT 6	VERIFY	IN
	IU	MDI	0823	ON	24.900	3523REG	CONT BIT 8	VERIFY	IN
S1B		DDA	2093	ON	24.900	5166VXK0008-603			
S1B		DDA	2094	ON	24.900	5167VXK0008-603			
S1B		DDA	2096	ON	24.900	5169VXK0008-603			
S1B		DDA	2098	ON	24.900	5171VXK0008-603			
S1B		DDA	2099	ON	24.900	5172VXK0008-603			
S1B		DDA	2100	ON	24.900	5173VXK0008-603			
	IU	LDI	1090	OFF	24.912	0505BIT	NO 1	VERIFY	
	IU	LDI	1092	OFF	24.912	0507BIT	NO 3	VERIFY	
	IU	LDI	1097	OFF	24.912	0512BIT	NO 8	VERIFY	
S1B		DDA	2093	OFF	24.912	5166VXK0008-603			
S1B		DDA	2098	OFF	24.912	5171VXK0008-603			
S1B		DDA	2100	OFF	24.912	5173VXK0008-603			
	S4B	LDO	1844	OFF	24.952	4535SW	SEL ZERO		
	S4B	LDO	1844	OFF	24.952	4535SW	SEL ZERO		
S1B	IU	MDI	2308	ON	24.988	3768READ	COMMAND		
S1B	S4B	IU	-2-	245	READ	24.988			
	S4B	MDI	1931	OFF	24.996	3941LH	LATCH RLF VLV OPEN		
	S4B	MDI	1931	OFF	24.996	3941LH	LATCH RLF VLV OPEN		
	IU	LDI	0983	ON	25.000	0463SW	SEL READ		
	IU	LDI	1102	ON	25.000	0516SW	SEL READ		
S1B		DDA	2029	ON	25.000	4080VK0128-404			
S1B		DDA	2085	ON	25.000	5161VXK0006-603			
S1B	IU	MDI	2305	OFF	25.028	3765S-IVR	STAGE SEL		
S1B	IU	MDI	2308	OFF	25.028	3768READ	COMMAND		
	IU	LDI	0983	OFF	25.036	0463SW	SEL READ		
	IU	LDI	1099	OFF	25.036	0514S-IVR	STAGE SELECTOR		
	IU	LDI	1102	OFF	25.036	0516SW	SEL READ		
	S4B	MDI	1844	ON	25.036	3928SW	SEL ZERO		
S1B		DDA	2085	OFF	25.036	5161VXK0006-603			
S1B		DDA	2086	OFF	25.036	5164VXK0005-603			
	IU	MDI	0817	ON	25.040	3517REG	CONT BIT 2	VERIFY	IN
	IU	MDI	0819	ON	25.040	3519REG	CONT BIT 4	VERIFY	IN
	IU	MDI	0820	ON	25.040	3520REG	CONT BIT 5	VERIFY	IN
	IU	MDI	0822	ON	25.040	3522REG	CONT BIT 7	VERIFY	IN

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S1A		DDA 2099 OFF 25.040 5172VXK0008-603
	IU	LDI 1091 OFF 25.044 0506BIT NO 2 VERIFY
S1B		DDA 2094 OFF 25.044 5167VXK0008-603
S1C		DDA 2098 OFF 25.048 5169VXK0008-603
	IU	LDI 1093 OFF 25.048 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 25.048 0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF 25.048 0511BIT NO 7 VERIFY
S1B		DDA 2029 OFF 25.048 4080VK0128-404
S4B		LDO 1931 OFF 25.072 4549LH LATCH RLF VLV OPEN
S4B		LDO 1844 ON 25.108 4535SH SEL ZERO
S1B	IU	MDI 2305 ON 25.636 3765S-IVB STAGE SEL
	IU	LDI 1099 ON 25.640 0514S-IVB STAGE SELECTOR
S4B		MDI 1844 OFF 25.640 3928SW SEL ZERO
S1A		DDA 2092 OFF 25.640 5164VXK0007-603
	IU	MDI 0816 OFF 25.644 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 25.644 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 25.644 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 25.644 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 OFF 25.644 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 25.644 3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1090 ON 25.648 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 25.648 0506BIT NO 2 VERIFY
	IU	LDI 1096 ON 25.648 0511BIT NO 7 VERIFY
	IU	LDI 1097 ON 25.648 0512BIT NO 8 VERIFY
S1B		DDA 2093 ON 25.648 5166VXK0008-603
S1B		DDA 2094 ON 25.648 5167VXK0008-603
S1B		DDA 2096 ON 25.648 5169VXK0008-603
S1B		DDA 2099 ON 25.648 5172VXK0008-603
S1B		DDA 2100 ON 25.648 5173VXK0008-603
	IU	LDI 1093 ON 25.652 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 25.652 0509BIT NO 5 VERIFY
S1A	IU	MDI 2305 ON 25.660 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON 25.660 3767RESET COMMAND
S1A S4B	IU	MDI 0816 ON 25.664 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 25.664 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON 25.664 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 25.664 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0822 ON 25.664 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 25.664 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 ON 25.664 3928SW SEL ZERO
S1B		DDA 2084 OFF 25.664 5160VXK0007-603
	IU	LDI 1091 OFF 25.668 0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF 25.668 0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON 25.668 0517RESET COMMAND
S1A		DDA 2088 OFF 25.668 5164VXK0005-603

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S1B		DDA 2093 OFF 25.668 5166VXK0008-603
S1B		DDA 2096 OFF 25.668 5169VXK0008-603
S1B		DDA 2099 OFF 25.668 5172VXK0008-603
S1B		DDA 2100 OFF 25.668 5173VXK0008-603
	IU	LDI 1090 OFF 25.672 0505BIT NO 1 VERIFY
	IU	LDI 1093 OFF 25.672 0506BIT NO 4 VERIFY
	IU	LDI 1094 OFF 25.672 0509BIT NO 5 VERIFY
	IU	LDI 1096 OFF 25.672 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 25.672 0512BIT NO 8 VERIFY
S1B	IU	MDI 2307 ON 25.672 3766S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF 25.672 3767RESET COMMAND
S1B		DDA 2094 OFF 25.672 5167VXK0008-603
S1B		DDA 2088 ON 25.680 5164VXK0005-603
	IU	LDI 1099 ON 25.684 0514S-IVB STAGE SELECTOR
	IU	MDI 0817 OFF 25.684 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0822 OFF 25.684 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 25.684 3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 OFF 25.684 3928SW SEL ZERO
S1B		DDA 2084 OFF 25.684 5160VXK0007-603
	IU	LDI 1103 OFF 25.688 0517RESET COMMAND
	IU	MDI 0818 OFF 25.688 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0821 OFF 25.688 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 25.688 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 ON 25.688 3523REG CONT BIT 8 VERIFY IN
S4B		LDO 1844 OFF 25.688 4535SW SEL ZERO
	IU	LDI 1091 ON 25.692 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 25.692 0507BIT NO 3 VERIFY
	IU	LDI 1095 ON 25.692 0510BIT NO 6 VERIFY
S1B		DDA 2095 ON 25.692 5168VXK0008-603
S1B		DDA 2098 ON 25.692 5171VXK0008-603
S1B		DDA 2099 ON 25.692 5172VXK0008-603
	S4B	LDO 1844 ON 25.724 4535SW SEL ZERO
	S4B	LDO 1844 OFF 25.764 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 25.788 3768PEAD COMMAND
S1B S4B	IU	-2- 331 READ 25.788
	IU	LDI 0983 ON 25.792 0463SW SEL READ
	IU	LDI 1102 ON 25.792 0516SW SEL READ
	IU	MDI 1102 ON 25.792 0516SW SEL READ
S1B		DDA 2029 ON 25.792 4080VK0128-404
S1B		DDA 2100 ON 25.792 5173VXK0008-603
S1B	IU	MDI 2305 OFF 25.828 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 25.828 3768PEAD COMMAND
	IU	LDI 0983 OFF 25.836 0463SW SEL READ
	IU	LDI 1099 OFF 25.836 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 25.836 0516SW SEL READ
	IU	MDI 0817 ON 25.836 3517REG CONT BIT 2 VERIFY IN

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	IU	MDI 0818 ON	25.836	3518REG CONT BIT 3 VERIFY IN
S4B		MDI 1844 ON	25.836	3928SW SEL ZERO
S4B		LDO 1735 ON	25.836	4796LOX V/NPV BC-OP LTCH RST
S1B		DDA 2085 OFF	25.836	5161VXK0006-603
S1B		DDA 2086 OFF	25.836	5164VXK0005-603
	IU	MDI 0821 ON	25.840	3521REG CONT BIT 6 VERIFY IN
S1B		DDA 2099 OFF	25.840	5172VXK0008-603
	IU	LDI 1091 OFF	25.844	0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF	25.844	0507BIT NO 3 VERIFY
		DDA 2098 OFF	25.844	5171VXK0008-603
	IU	LDI 1095 OFF	25.848	0510BIT NO 6 VERIFY
	IU	MDI 2305 ON	25.848	3765S-IVR STAGE SEL
S1B		DDA 2029 OFF	25.848	4080VK0128-404
S1B		DDA 2084 OFF	25.848	5160VXK0005-603
	S4B	MDI 1844 OFF	25.852	3928SW SEL ZERO
	IU	MDI 0817 OFF	25.856	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF	25.856	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF	25.856	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	25.856	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 OFF	25.856	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 ON	25.856	5164VXK0005-603
S1B		DDA 2098 ON	25.856	5171VXK0008-603
S1B		DDA 2098 ON	25.856	5171VXK0008-603
	IU	LDI 1091 ON	25.860	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	25.860	0507BIT NO 3 VERIFY
	IU	LDI 1095 ON	25.860	0510BIT NO 6 VERIFY
	IU	LDI 1099 ON	25.860	0514S-IVR STAGE SELECTOR
	IU	MDI 0816 OFF	25.860	3516REG CONT BIT 1 VERIFY IN
S1B		DDA 2100 ON	25.864	5173VXK0008-603
	IU	LDI 1090 ON	25.868	0505BIT NO 1 VERIFY
	IU	LDI 1093 ON	25.868	0508BIT NO 4 VERIFY
	IU	LDI 1097 ON	25.868	0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 OFF	25.868	3765S-IVR STAGE SEL
S1B	IU	MDI 2307 ON	25.872	3767RESET COMMAND
S1B	IU	DDA 2084 ON	25.872	5160VXK0007-603
	IU	LDI 1099 OFF	25.876	0514S-IVR STAGE SELECTOR
	IU	LDI 1103 ON	25.876	0517RESET COMMAND
	IU	MDI 0816 ON	25.876	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	25.876	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	25.876	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON	25.876	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	25.876	3523REG CONT BIT 8 VERIFY IN
		MDI 1844 ON	25.876	3928SW SEL ZERO

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91		DDA 2088 OFF 25.876 5164VXK0005-603
	IO	I 0821 ON 25.880 3521REG CONT BIT 6 VERIFY IN
	IO	LDI 1091 OFF 25.884 0506BIT NO 2 VERIFY
91	IO	MDI 2305 ON 25.884 3765S-IV8 STAGE SEL
91	IO	MDI 2307 OFF 25.884 3767RESET COMMAND
	948	LDO 1844 OFF 25.884 4535SW SEL ZERO
91		DDA 2093 OFF 25.884 5166VXK0008-603
91		DDA 2098 OFF 25.884 5171VXK0008-603
91		DDA 2099 OFF 25.884 5172VXK0008-603
91		DDA 2100 OFF 25.884 5173VXK0008-603
	IO	LDI 1090 OFF 25.888 0505BIT NO 1 VERIFY
	IO	LDI 1091 OFF 25.888 0507BIT NO 3 VERIFY
	IO	LDI 1093 OFF 25.888 0508BIT NO 4 VERIFY
	IO	LDI 1095 OFF 25.888 0510BIT NO 6 VERIFY
	IO	LDI 1097 OFF 25.888 0512BIT NO 8 VERIFY
91		DDA 2088 ON 25.888 5164VXK0005-603
91		DDA 2095 OFF 25.888 5168VXK0008-603
	IO	LDI 1099 ON 25.892 0514S-IV8 STAGE SELECTOR
91		DDA 2084 OFF 25.892 5160VXK0007-603
	IO	LDI 1103 OFF 25.896 0517RESET COMMAND
	948	MDI 1844 OFF 25.896 3925SW SEL ZERO
	IO	MDI 0816 OFF 25.900 3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0817 OFF 25.900 3517REG CONT BIT 2 VERIFY IN
	IO	MDI 0819 OFF 25.900 3519REG CONT BIT 4 VERIFY IN
	IO	MDI 0820 OFF 25.900 3520REG CONT BIT 5 VERIFY IN
	IO	MDI 0822 OFF 25.900 3522REG CONT BIT 7 VERIFY IN
	IO	MDI 0816 ON 25.904 3516REG CONT BIT 1 VERIFY IN
	IO	MDI 0819 ON 25.904 3519REG CONT BIT 4 VERIFY IN
	IO	LDI 1091 ON 25.908 0506BIT NO 2 VERIFY
	IO	LDI 1094 ON 25.908 0509BIT NO 5 VERIFY
	IO	LDI 1096 ON 25.908 0511BIT NO 7 VERIFY
S18		DDA 2094 ON 25.908 5167VXK0008-603
S18		DDA 2096 ON 25.908 5169VXK0008-603
91		DDA 2098 ON 25.908 5171VXK0008-603
	S48	LDO 1844 OFF 25.924 4535SW SEL ZERO
	948	LDO 1844 OFF 25.960 4535SW SEL ZERO
	948	LDO 1844 OFF 25.972 4535SW SEL ZERO
S18	IO	MDI 2308 ON 25.988 3768READ COMMAND
S18	IO	-2- 255 READ 25.988
	IO	LDI 0983 ON 25.992 0463SW SEL READ
	IO	LDI 1102 ON 25.992 0516SW SEL READ
	948	MDI 1929 ON 25.992 3939LH VLVS RC, L/R LTCH RST
91		DDA 2029 ON 25.992 4080VK0128-404
91		DDA 2085 ON 25.992 5161VXK0006-603
91	IO	MDI 2305 OFF 26.024 3765S-IV8 STAGE SEL
91	IO	MDI 2306 OFF 26.024 3768READ COMMAND

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	LDI	0983	OFF	26.036	0463SW SEL READ
	LDI	1099	OFF	26.036	0514S-IVB STAGE SELECTOR
	LDI	1102	OFF	26.036	0516SW SEL READ
	MDI	0817	ON	26.036	3517REG CONT BIT 2 VERIFY IN
	MDI	0820	ON	26.036	3520REG CONT BIT 5 VERIFY IN
	MDI	0822	ON	26.036	3522REG CONT BIT 7 VERIFY IN
040	MDI	1844	ON	26.036	3928SW SEL ZERO
040	LDO	1929	ON	26.036	4547LH VLVS BC, L/R LTCH RST
S1B	DDA	2085	OFF	26.036	5161VXK0006-603
S1B	DDA	2088	OFF	26.036	5164VXK0005-603
S1B	DDA	2099	OFF	26.040	5172VXK0008-603
	LDI	1091	ON	26.044	0506BIT NO 2 VERIFY
S1B	DDA	2094	OFF	26.044	5167VXK0008-603
S1B	DDA	2096	OFF	26.044	5169VXK0008-603
	LDI	1094	ON	26.048	0509BIT NO 5 VERIFY
	LDI	1096	ON	26.048	0511BIT NO 7 VERIFY
S1B		2029	OFF	26.048	4080VK0128-404
040	LDI	1844	ON	26.088	4535SW SEL ZERO
040	LDI	1808	OFF	51.388	3838LOX BLEED VALVE CLOSED
040	LDI	1808	OFF	51.388	4503LOX BLEED VALVE CLOSED
040	LDI	1807	OFF	51.532	3837FUEL BLEED VALVE CLOSED
040	LDI	1807	OFF	51.584	4502FUEL BLEED VALVE CLOSED
S1B	LDI	2305	ON	20.632	3765S-IVB STAGE SEL
S1B	LDI	1844	OFF	20.636	3928SW SEL ZERO
	LDI	1091	ON	20.640	0506BIT NO 2 VERIFY
	LDI	1094	ON	20.640	0509BIT NO 5 VERIFY
	LDI	1096	ON	20.640	0511BIT NO 7 VERIFY
	LDI	1099	ON	20.640	0514S-IVB STAGE SELECTOR
	MDI	0817	OFF	20.640	3517REG CONT BIT 2 VERIFY IN
	MDI	0819	OFF	20.640	3519REG CONT BIT 4 VERIFY IN
	MDI	0821	OFF	20.640	3521REG CONT BIT 6 VERIFY IN
	MDI	0822	OFF	20.640	3522REG CONT BIT 7 VERIFY IN
	MDI	0823	OFF	20.640	3523REG CONT BIT 8 VERIFY IN
S1B	DDA	2094	ON	20.640	5164VXK0005-603
S1B	DDA	2096	ON	20.640	5167VXK0008-603
S1B	DDA	2096	ON	20.640	5169VXK0008-603
	DDA	2099	ON	20.640	5172VXK0008-603
	LDI	1097	ON	20.648	0512BIT NO 8 VERIFY
S1B	DDA	2093	ON	20.648	5166VXK0008-603
S1B	DDA	2095	ON	20.648	5168VXK0008-603
	LDI	1093	ON	20.652	0508BIT NO 4 VERIFY
	LDI	1095	ON	20.652	0510BIT NO 6 VERIFY
S1B	DDA	2096	OFF	20.652	5169VXK0008-603
	LDI	1094	OFF	20.656	0509BIT NO 5 VERIFY
	LDO	1844	OFF	20.688	4535SW SEL ZERO

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TEST 010 FLT MAL CAT 22 11

S1B	IU	MDI 2308 ON	20.788	3768READ COMMAND
S1B S4B	IU	-2- 025 READ	20.788	
S4B		MDI 1806 ON	20.796	3836ENG HE CONT SOL ENERGIZE
S4B		MDI 2741 ON	20.796	4986SPARK SYS 1 TEST ON
S4B		MDI 2742 ON	20.796	4987SPARK SYS 2 TEST ON
	IU	LDI 0983 ON	20.800	0463SW SEL READ
	IU	LDI 1102 ON	20.800	0516SW SEL READ
S1B		DDA 2085 ON	20.800	4080VVK0128-404
S1B		DDA 2085 ON	20.800	5161VXK0006-603
S1B	IU	MDI 2305 OFF	20.816	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	20.816	3768READ COMMAND
S1B		DDA 2085 OFF	20.824	5161VXK0006-603
	IU	LDI 0983 OFF	20.828	0463SW SEL READ
	IU	LDI 1099 OFF	20.828	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	20.828	0516SW SEL READ
	IU	MDI 0817 ON	20.828	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 ON	20.828	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0823 ON	20.828	3523REG CONT BIT 8 VERIFY IN
S4B		MDI 1844 ON	20.828	3928SW SEL ZERO
S1B		DDA 2088 OFF	20.828	5164VXK0005-603
	IU	MDI 0821 ON	20.832	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON	20.832	3522REG CONT BIT 7 VERIFY IN
S1B		DDA 2099 OFF	20.832	5172VXK0008-603
	IU	LDI 1091 OFF	20.836	0506BIT NO 2 VERIFY
	IU	LDI 1097 OFF	20.836	0512BIT NO 8 VERIFY
S1B		DDA 2093 OFF	20.836	5166VXK0008-603
S1B		DDA 2094 OFF	20.836	5167VXK0008-603
S1B		DDA 2095 OFF	20.836	5168VXK0008-603
	IU	LDI 1093 OFF	20.840	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	20.840	0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF	20.840	0511BIT NO 7 VERIFY
S1B		DDA 2029 OFF	20.840	4080VVK0128-404
S4B		LDO 1806 ON	20.844	4501ENG HE CONT SOL ENERGIZE
S4B		MDI 1807 ON	20.880	3837FUEL BLEED VALVE CLOSED
S4B		MDI 1808 ON	20.884	3838LOX BLEED VALVE CLOSED
S4B		LDO 1844 ON	20.884	4535SW SEL ZERO
S4B		LDO 1807 ON	20.936	4502FUEL BLEED VALVE CLOSED
S4B		LDO 1807 ON	20.948	4503LOX BLEED VALVE CLOSED
S4B		MDI 1784 ON	30.328	3814SPARK SYS NO 2 INH
S4B		MDI 1847 ON	30.356	3930SPARK SYS NO 1 INH
S4B		LDO 1782 ON	30.376	4479LOX TANK NOT OVERFILLED
S4B		LDO 1847 ON	30.416	4537SPARK SYS NO 1 INH
S1B		LDI 0965 ON	52.620	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 ON	52.620	4070VJ0070-603
S1B		LDI 0964 ON	52.628	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 ON	52.628	4071VJ0069-603

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S1B		DDA 2159 ON	52.660	4136VJ0072-603
S1B		LDI 0967 ON	52.664	0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 ON	52.668	4137VJ0071-603
S1B		LDI 0966 ON	52.672	0421COMPT RESET PULSE NO. 1
S1B		LDI 0965 OFF	52.680	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2159 OFF	52.684	4136VJ0072-603
	IU	LDO 0735 ON	52.692	4860MODE CODE 3 IND
S1B		LDI 0964 OFF	52.696	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	52.696	4071VJ0069-603
S1B		DDA 2159 OFF	52.720	4136VJ0072-603
S1B		LDI 0966 OFF	52.724	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 OFF	52.724	0422COMPT RESET PULSE NO. 2
S1B		DDA 2160 OFF	52.724	4137VJ0071-603
S1B		DDA 2019 ON	52.984	4070VJ0070-603
S1B		DDA 2020 ON	52.984	4071VJ0069-603
S1B		LDI 0964 0	52.988	0419ADDRESS VERI PULSE NO. 1
S1B		LDI 0965 ON	52.988	0420ADDRESS VERI PULSE NO. 2
S1B		LDI 0966 ON	53.004	0421COMPT RESET PULSE NO. 1
S1B		LDI 0967 ON	53.004	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 ON	53.004	4136VJ0072-603
S1B		DDA 2160 ON	53.004	4137VJ0071-603
S1B		DDA 2019 OFF	53.036	4070VJ0070-603
S1B		LDI 0965 OFF	53.040	0420ADDRESS VERI PULSE NO. 2
S1B		LDI 0964 OFF	53.052	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 OFF	53.052	4071VJ0069-603
S1B		LDI 0967 OFF	53.056	0422COMPT RESET PULSE NO. 2
S1B		DDA 2159 OFF	53.056	4136VJ0072-603
S1B		LDI 0966 OFF	53.064	0421COMPT RESET PULSE NO. 1
S1B		DDA 2160 OFF	53.064	4137VJ0071-603
	IU	LDO 0735 OFF	53.064	4860MODE CODE 3 IND
S1B		LDI 0965 ON	53.328	0420ADDRESS VERI PULSE NO. 2
S1B		DDA 2019 0	53.328	4070VJ0070-603
S1B		LDI 0964 ON	53.336	0419ADDRESS VERI PULSE NO. 1
S1B		DDA 2020 ON	53.336	4071VJ0069-603
S1B		LDI 0965 OFF	53.388	0420ADDRESS VERI PULSE NO. 2
S1B	IU	MDI 2305 ON	53.388	3765S-IVR STAGE SEL
S1B		DDA 2019 OFF	53.388	4070VJ0070-603
	S4B	MDI 1844 OFF	53.392	3928SN SEL ZERO
S1B		DDA 2088 0	53.392	5164VXKU0005-603
S1B		LDI 1099 OFF	53.396	0514S-IVR STAGE SELECTOR
	IU	LDI 1099 ON	53.396	0514S-IVR STAGE SELECTOR
	IU	MDI 0816 OFF	53.396	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	53.396	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	53.396	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF	53.396	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	53.396	3523REG CONT BIT 8 VERIFY IN

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TEST 914 FLT TOL DAT 000 73 11

		2020	OFF	53.396	4071VJ0069-603
S1B		0966	ON	53.404	0421COMPT RESET PULSE NO. 1
S1B		0967	ON	53.404	0422COMPT RESET PULSE NO. 2
	IU	1090	ON	53.404	0505BIT NO 1 VERIFY
	IU	1091	ON	53.404	0506BIT NO 2 VERIFY
	IU	1093	ON	53.404	0508BIT NO 4 VERIFY
	IU	1096	ON	53.404	0511BIT NO 7 VERIFY
	IU	1097	ON	53.404	0512BIT NO 8 VERIFY
S1B		2159	ON	53.404	4136VJ0072-603
S1B		2160	ON	53.404	4137VJ0071-603
S1B		2093	ON	53.404	5166VXK0008-603
S1B		2094	ON	53.404	5167VXK0008-603
S1B		2099	ON	53.404	5172VXK0008-603
S1B		2100	ON	53.404	5173VXK0008-603
	IU	0735	ON	53.416	4860MODE CODE 3 IND
S1B		0967	OFF	53.456	0422COMPT RESET PULSE NO. 2
S1B		2159	OFF	53.456	4136VJ0072-603
S1B	IU	2308	ON	53.460	3766READ COMMAND
S1B	S4B	-2- 064	READ	53.460	
	S4B	1844	OFF	53.460	4535SW SEL ZERO
S1B		0966	OFF	53.464	0421COMPT RESET PULSE NO. 1
	040	1806	OFF	53.464	3836ENG HE CONT SOL ENERGIZE
S1B		2160	OFF	53.464	4137VJ0071-603
S1B		2085	ON	53.468	5161VXK0006-603
	IU	0983	ON	53.472	0463SW SEL READ
	IU	1102	ON	53.472	0516SW SEL READ
S1B		2029	ON	53.472	4080VK0128-404
S1B	IU	2305	OFF	53.488	3765S-IVB STAGE SEL
S1B	IU	2308	OFF	53.488	3766READ COMMAND
	IU	0983	OFF	53.496	0463SW SEL READ
	IU	1099	OFF	53.496	0514S-IVB STAGE SELECTOR
	IU	1102	OFF	53.496	0516SW SEL READ
	S4B	1844	ON	53.496	3928SW SEL ZERO
S1B		2085	OFF	53.496	5161VXK0006-603
S1B		2088	OFF	53.496	5164VXK0005-603
	IU	0816	ON	53.500	3516REG CONT BIT 1 VERIFY IN
	IU	0817	ON	53.500	3517REG CONT BIT 2 VERIFY IN
	IU	0819	ON	53.500	3519REG CONT BIT 4 VERIFY IN
	IU	0822	ON	53.500	3522REG CONT BIT 7 VERIFY IN
	IU	0823	ON	53.500	3523REG CONT BIT 8 VERIFY IN
	IU	1091	OFF	53.504	0506BIT NO 2 VERIFY
	IU	0735	OFF	53.504	4860MODE CODE 3 IND
S1B		2093	OFF	53.504	5166VXK0008-603
S1B		2099	OFF	53.504	5172VXK0008-603
	IU	1090	OFF	53.508	0505BIT NO 1 VERIFY
	IU	1093	OFF	53.508	0508BIT NO 4 VERIFY

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TEST SITE FLT -AL DAT 73 11

	IU	LDI 1096 OFF 53.508 0511BIT NO 7 VERIFY
	IU	LDI 1097 OFF 53.508 0512BIT NO 8 VERIFY
S1B		DDA 2029 OFF 53.508 4080VXK0128-404
S1B		DDA 2094 OFF 53.508 5167VXK0008-603
S1B		DDA 2100 OFF 53.508 5173VXK0008-603
S4B		LDO 1806 OFF 53.584 4501ENG HE CONT SOL ENERGIZE
S4B		LDO 1844 ON 53.620 4535SW SEL ZERO
		CDC 01 25
	IU	MDI 2305 ON 00.632 3765S-IV8 STAGE SEL
	IU	LDI 1099 ON 00.636 0514S-IV8 STAGE SELECTOR
	IU	MDI 0816 OFF 00.636 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 00.636 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF 00.636 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 OFF 00.636 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 00.636 3523REG CONT BIT 8 VERIFY IN
		MDI 1844 OFF 00.636 3928SW SEL ZERO
		MDI 2088 ON 00.636 5164VXK0005-603
	IU	MDI 0818 OFF 00.640 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 ON 00.640 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0822 ON 00.640 3522REG CONT BIT 7 VERIFY IN
	IU	LDI 1090 ON 00.644 0505BIT NO 1 VERIFY
	IU	LDI 1091 ON 00.644 0506BIT NO 2 VERIFY
	IU	LDI 1092 ON 00.644 0507BIT NO 3 VERIFY
	IU	LDI 1097 ON 00.644 0512BIT NO 8 VERIFY
		DDA 2093 ON 00.644 5166VXK0008-603
		DDA 2098 ON 00.644 5171VXK0008-603
		DDA 2099 ON 00.644 5172VXK0008-603
		DDA 2100 ON 00.644 5173VXK0008-603
	IU	MDI 2305 OFF 00.652 3765S-IV8 STAGE SEL
	IU	MDI 2307 ON 00.652 3767RESET COMMAND
		-2- 170 RESET 00.652
		MDI 1844 ON 00.656 3928SW SEL ZERO
	IU	LDI 1103 ON 00.660 0517RESET COMMAND
	IU	MDI 0816 ON 00.660 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON 00.660 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON 00.660 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0823 ON 00.660 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 ON 00.660 5160VXK0007-603
S1B		DDA 2088 OFF 00.660 5164VXK0005-603
S1B		DDA 2099 OFF 00.660 5172VXK0008-603
	IU	LDI 1090 OFF 00.664 0505BIT NO 1 VERIFY
	IU	LDI 1091 OFF 00.664 0506BIT NO 2 VERIFY
	IU	LDI 1092 OFF 00.664 0507BIT NO 3 VERIFY
	IU	LDI 1097 OFF 00.664 0512BIT NO 8 VERIFY
	IU	LDI 1099 OFF 00.664 0514S-IV8 STAGE SELECTOR
S1B		DDA 2093 OFF 00.664 5166VXK0008-603

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TEST S1B FLT HAL CAT 22 11

S1B		DDA 2098 OFF 00.664 5171VXK0008-603
S1B		DDA 2099 ON 00.664 5172VXK0008-603
S1B	IU	MDI 2305 ON 00.668 3765S-IVB STAGE SEL
S1B	IU	MDI 2307 OFF 00.668 3767RESET COMMAND
	IU	LDI 1099 ON 00.676 0514S-IVB STAGE SELECTOR
S4B		MDI 1844 OFF 00.676 3928SW SEL ZERO
S1B		DDA 2088 ON 00.676 5164VXK0005-603
	IU	LDI 1103 OFF 00.680 0517RESET COMMAND
	IU	MDI 0816 OFF 00.680 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF 00.680 3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 OFF 00.680 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0822 OFF 00.680 3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF 00.680 3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2084 OFF 00.680 5160VXK0007-603
	IU	LDI 1091 ON 00.684 0506BIT NO 2 VERIFY
	IU	LDI 1093 ON 00.684 0508BIT NO 4 VERIFY
	IU	LDI 1094 ON 00.684 0509BIT NO 5 VERIFY
	IU	LDI 1096 ON 00.684 0511BIT NO 7 VERIFY
	IU	MDI 0816 ON 00.684 3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0818 ON 00.684 3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0819 OFF 00.684 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 OFF 00.684 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 OFF 00.684 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0823 ON 00.684 3523REG CONT BIT 8 VERIFY IN
S4B		LD0 1844 OFF 00.684 4535SW SEL ZERO
S1B		DDA 2095 ON 00.684 5168VXK0008-603
S1B		DDA 2096 ON 00.684 5169VXK0008-603
S1B		DDA 2099 ON 00.684 5172VXK0008-603
	IU	LDI 1095 ON 00.688 0510BIT NO 6 VERIFY
S4B		LD0 1844 ON 00.720 4535SW SEL ZERO
S4B		LD0 1844 OFF 00.760 4535SW SEL ZERO
S1B	IU	MDI 2308 ON 00.780 3768READ COMMAND
S1B S4B	IU	-2- 205 READ 00.780
	IU	LDI 0983 ON 00.784 0463SW SEL READ
	IU	LDI 1102 ON 00.784 0516SW SEL READ
S4B		MDI 1734 ON 00.784 3110FLT PRES+CST PER REL RST
S1B		DDA 2085 ON 00.784 5161VXK0006-603
S1B		DDA 2029 ON 00.788 4080VXK0128-404
S1B	IU	MDI 2305 OFF 00.816 3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF 00.816 3768READ COMMAND
S4B		MDI 1844 ON 00.824 3928SW SEL ZERO
	IU	LDI 0983 OFF 00.828 0463SW SEL READ
	IU	LDI 1099 OFF 00.828 0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF 00.828 0516SW SEL READ
	IU	MDI 0817 ON 00.828 3517REG CONT BIT 2 VERIFY IN

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TEST SIM FLT MAL OAT RUN /3 II

	IU	MDI 0819 ON 00.828 3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0820 ON 00.828 3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0821 ON 00.828 3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 ON 00.828 3522REG CONT BIT 7 VERIFY IN
S4B		LDO 1734 ON 00.828 4795FLT PRES+CST PER REL RST
S1B		DDA 2085 OFF 00.828 5161VXK0006-603
S1B		DDA 2088 OFF 00.828 5164VXK0005-603
S1B		DDA 2029 OFF 00.832 4080VK0128-404
	IU	LDI 1091 OFF 00.836 0506BIT NO 2 VERIFY
S1B		DDA 2099 OFF 00.836 5172VXK0008-603
	IU	LDI 1093 OFF 00.840 0508BIT NO 4 VERIFY
	IU	LDI 1094 OFF 00.840 0509BIT NO 5 VERIFY
	IU	LDI 1095 OFF 00.840 0510BIT NO 6 VERIFY
	IU	LDI 1096 OFF 00.840 0511BIT NO 7 VERIFY
S1B		DDA 2094 OFF 00.840 5167VXK0008-603
S1B		DDA 2095 OFF 00.840 5168VXK0008-603
S1B		DDA 2096 OFF 00.840 5169VXK0008-603
S4B		LDO 1844 ON 00.876 4535SW SEL ZERO
S4B		MDI 2742 OFF 03.108 4987SPARK SYS 2 TEST ON
S4B		MDI 1784 OFF 03.112 3814SPARK SYS NO 2 INH
S4B		LDO 1782 OFF 03.164 4479LOX TANK NOT OVERFILLED
S4B		MDI 2741 OFF 03.472 4986SPARK SYS 1 TEST ON
S4B		MDI 1847 OFF 03.476 3930SPARK SYS NO 1 INH
S4B		LDO 1847 OFF 03.528 4537SPARK SYS NO 1 INH
S4B		MDI 1808 OFF 23.708 3838LOX BLEED VALVE CLOSED
S4B		LDO 1808 OFF 23.760 4503LOX BLEED VALVE CLOSED
S4B		MDI 1807 OFF 23.964 3837FUEL BLEED VALVE CLOSED
S4B		LDO 1807 OFF 24.016 4502FUEL BLEED VALVE CLOSED
S1B S4B	IU	CDC 01 46
S1B S4B	IU	CDC 01 47
S1B S4B	IU	CDC 01 48
S1B S4B	IU	CDC 01 49
S1B S4B	IU	CDC 01 50
S1B S4B	IU	CDC 01 51
S1B S4B	IU	CDC 01 52
S1B S4B	IU	CDC 01 53
S1B S4B	IU	CDC 01 54
S1B S4B	IU	CDC 01 55
S1B S4B	IU	CDC 01 56
S1B S4B	IU	CDC 01 57
S1B S4B	IU	CDC 01 58
S1B S4B	IU	CDC 01 59
S1B S4B	IU	CDC 02 00
S1B S4B	IU	CDC 02 01
S1B S4B	IU	CDC 02 02
S1B S4B	IU	CDC 02 03

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TEST SIM FLT MAL OAT RUN /3 11

S1B S4B	IU	CDC	02	04	
S1B S4B	IU	CDC	02	05	
S1B S4B	IU	CDC	02	06	
S1B S4B	IU	CDC	02	07	
S1B S4B	IU	CDC	02	08	
S1B S4B	IU	CDC	02	09	
S1B S4B	IU	CDC	02	10	
S1B S4B	IU	CDC	02	11	
S1B S4B	IU	CDC	02	12	
S1B S4B	IU	CDC	02	13	
S1B S4B	IU	CDC	02	14	
S1B S4B	IU	CDC	02	15	
S1B S4B	IU	CDC	02	16	
S1B S4B	IU	CDC	02	17	
S1B S4B	IU	CDC	02	18	
S1B S4B	IU	CDC	02	19	
S1B S4B	IU	CDC	02	20	
S1B S4B	IU	CDC	02	21	
S1B S4B	IU	CDC	02	22	
S1B S4B	IU	CDC	02	23	
S1B S4B	IU	CDC	02	24	
S1B S4B	IU	CDC	02	25	
S1B S4B	IU	CDC	02	26	
S1B S4B	IU	CDC	02	27	
S1B S4B	IU	CDC	02	28	
S1B S4B	IU	CDC	02	29	
S1B S4B	IU	CDC	02	30	
S1B S4B	IU	CDC	02	31	
S1B	IU	MDI	2305	ON	40.448 3765S-IVB STAGE SEL
S4B		MDI	1844	OFF	40.452 3928SW SEL ZERO
S1B		DDA	2088	ON	40.452 5164VXK0005-603
	IU	LDI	1099	ON	40.456 0514S-IVB STAGE SELECTOR
	IU	MDI	0817	OFF	40.456 3517REG CONT BIT 2 VERIFY IN
	IU	MDI	0818	OFF	40.456 3518REG CONT BIT 3 VERIFY IN
	IU	MDI	0819	OFF	40.456 3519REG CONT BIT 4 VERIFY IN
	IU	MDI	0820	OFF	40.456 3520REG CONT BIT 5 VERIFY IN
	IU	MDI	0821	OFF	40.456 3521REG CONT BIT 6 VERIFY IN
	IU	MDI	0822	OFF	40.456 3522REG CONT BIT 7 VERIFY IN
	IU	MDI	0823	OFF	40.456 3523REG CONT BIT 8 VERIFY IN
	IU	MDI	0816	OFF	40.460 3516REG CONT BIT 1 VERIFY IN
	IU	MDI	0819	ON	40.460 3519REG CONT BIT 4 VERIFY IN
	IU	MDI	0821	ON	40.460 3521REG CONT BIT 6 VERIFY IN
	IU	MDI	0822	ON	40.460 3522REG CONT BIT 7 VERIFY IN
S1B		DDA	2093	ON	40.460 5166VXK0008-603
S1B		DDA	2096	ON	40.460 5169VXK0008-603
S1B		DDA	2098	ON	40.460 5171VXK0008-603

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S1B		DDA 2099 ON	40.460	5172VXK0008-603
S1B		DDA 2100 ON	40.460	5173VXK0008-603
	IU	LDI 1090 ON	40.464	0505BIT NO 1 VERIFY
	IU	LDI 1091 ON	40.464	0506BIT NO 2 VERIFY
	IU	LDI 1092 ON	40.464	0507BIT NO 3 VERIFY
	IU	LDI 1094 ON	40.464	0509BIT NO 5 VERIFY
	IU	LDI 1097 ON	40.464	0512BIT NO 8 VERIFY
S1B	IU	MDI 2305 OFF	40.472	3765S-IVB STAGE SEL
S1B	IU	MDI 2307 ON	40.472	3767RESET COMMAND
S1B S4B	IU	-2- 150 RESET	40.472	
	S4B	MDI 1844 ON	40.476	3928SW SEL ZERO
S1B		DDA 2084 ON	40.476	5160VXK0007-603
	IU	LDI 1091 OFF	40.480	0506BIT NO 2 VERIFY
	IU	LDI 1099 OFF	40.480	0514S-IVB STAGE SELECTOR
	IU	LDI 1103 ON	40.480	0517RESET COMMAND
	IU	MDI 0816 ON	40.480	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 ON	40.480	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0818 ON	40.480	3518REG CONT BIT 3 VERIFY IN
	IU	MDI 0820 ON	40.480	3520REG CONT BIT 5 VERIFY IN
	IU	MDI 0823 ON	40.480	3523REG CONT BIT 8 VERIFY IN
S1B		DDA 2088 OFF	40.480	5164VXK0005-603
S1B		DDA 2093 OFF	40.480	5166VXK0008-603
S1B		DDA 2098 OFF	40.480	5171VXK0008-603
S1B		DDA 2099 OFF	40.480	5172VXK0008-603
	IU	LDI 1090 OFF	40.484	0505BIT NO 1 VERIFY
	IU	LDI 1092 OFF	40.484	0507BIT NO 3 VERIFY
	IU	LDI 1094 OFF	40.484	0509BIT NO 5 VERIFY
	IU	LDI 1097 OFF	40.484	0512BIT NO 8 VERIFY
S1B	IU	MDI 2307 OFF	40.484	3767RESET COMMAND
S1B		DDA 2096 OFF	40.484	5169VXK0008-603
S1B		DDA 2100 OFF	40.484	5173VXK0008-603
S1B	IU	MDI 2305 ON	40.488	3765S-IVB STAGE SEL
	IU	LDI 1099 ON	40.496	0514S-IVB STAGE SELECTOR
	S4B	MDI 1844 OFF	40.496	3928SW SEL ZERO
S1B		DDA 2084 OFF	40.496	5160VXK0007-603
S1B		DDA 2088 ON	40.496	5164VXK0005-603
	IU	LDI 1103 OFF	40.500	0517RESET COMMAND
	IU	MDI 0816 OFF	40.500	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0817 OFF	40.500	3517REG CONT BIT 2 VERIFY IN
	IU	MDI 0819 OFF	40.500	3519REG CONT BIT 4 VERIFY IN
	IU	MDI 0821 OFF	40.500	3521REG CONT BIT 6 VERIFY IN
	IU	MDI 0822 OFF	40.500	3522REG CONT BIT 7 VERIFY IN
	IU	MDI 0823 OFF	40.500	3523REG CONT BIT 8 VERIFY IN
	IU	LDI 1091 ON	40.504	0506BIT NO 2 VERIFY
	IU	LDI 1093 ON	40.504	0508BIT NO 4 VERIFY
	IU	LDI 1095 ON	40.504	0510BIT NO 6 VERIFY

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	IU	LDI 1096 ON	40.504	0511BIT NO 7 VERIFY
	IU	MDI 0816 ON	40.504	3516REG CONT BIT 1 VERIFY IN
	IU	MDI 0823 ON	40.504	3523REG CONT BIT 8 VERIFY IN
S4B		LDO 1844 OFF	40.504	4535SW SEL ZERO
S1B		DDA 2094 ON	40.504	5167VXK0008-603
S1B		DDA 2095 ON	40.504	5168VXK0008-603
S1B		DDA 2099 ON	40.504	5172VXK0008-603
	S4B	LDO 1844 ON	40.540	4535SW SEL ZERO
	S4B	LDO 1844 OFF	40.580	4535SW SEL ZERO
S1B	IU	MDI 2308 ON	40.600	3768READ COMMAND
S1B	S4B	IU	-2-	225 READ 40.600
	S4B	MDI 1734 OFF	40.604	3110FLT PRES+CST PER REL RST
	IU	LDI 0983 ON	40.612	0463SW SEL READ
	IU	LDI 1102 ON	40.612	0516SW SEL READ
S1B		DDA 2085 ON	40.612	5161VXK0006-603
S1B		DDA 2029 ON	40.616	4080VK0128-404
S1B	IU	MDI 2305 OFF	40.636	3765S-IVB STAGE SEL
S1B	IU	MDI 2308 OFF	40.636	3768READ COMMAND
	S4B	MDI 1844 ON	40.644	3928SW SEL ZERO
	IU	LDI 0983 OFF	40.648	0463SW SEL READ
	IU	LDI 1099 OFF	40.648	0514S-IVB STAGE SELECTOR
	IU	LDI 1102 OFF	40.648	0516SW SEL READ
	IU	MDI 0817 ON	40.648	3517REG CONT BIT 2 VERIFY IN
	IU	LDI 1093 OFF	40.660	0508BIT NO 4 VERIFY
	IU	LDI 1095 OFF	40.660	0510BIT NO 6 VERIFY