

VI4-900208

SHEET 1.6

CIRCUIT COMPONENT
LOCATION LIST
(CONTROLS & DISPLAYS)

SC-008 DOWNEY & MSC	CODE IDENT NO. 03953	SIZE A	VI4-900208	
	SCALE		SHEET 1.6	

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		
	C14A7	ELECTRICAL POWER CIRCUIT BREAKER PANEL					
CB1		INVERTER PWR NO.3 MN B	C2 16	C4 24			
CB2		INVERTER PWR NO.3 MN A	C2 16	C4 24			
CB3		INVERTER PWR NO.2 MN B	C2 16	C4 24			
CB4		INVERTER PWR NO.1 MN A	C2 16	C4 24			
CB5		POST LDG MAIN B	C2 18				
CB6		POST LDG MAIN A	C2 18				
CB7		POST LDG BAT BUS B	C2 19				
CB8		POST LDG BAT BUS A	C2 19				
CB9		MAIN B BAT BUS B	C2 20				
CB10		MAIN B BAT C	C2 20				
CB11		MAIN A BAT C	C2 20				
CB12		MAIN A BAT BUS A	C2 20				
CB13		POST LDG BAT C	C2 19				
C14A13							
CB4		BATT BUS A 28VDC	C2 25	E4 7			
CB5		BATT BUS B 28VDC	C2 25	E4 7			
	C14A16	BATTERY CIRCUIT BREAKER					
CB14		SEQ A-PYRO A	C2 28	E5 29			

DEVICE	LOCATION	CIRCUIT COMPONENT	LOCATION	CONTACT LOCATION			REV
	DWG ZONE		FUNCTION	DWG ZONE	DWG ZONE	DWG ZONE	
C14A16 BATTERY CIRCUIT BREAKER							
CB15		RCS FUEL DUMP-PYRO A	C2 28	C9 12	R7 10		
CB16		RCS FUEL DUMP-PYRO B	C2 28	C9 12	R7A 33		
CB17		SEQ B-PYRO B	C2 28	E5 29			
CB18		HF ANT DEPLOY-PYRO B	C2 28				
CB19		BAT C POWER	C2 21				
CB20		BAT CHARGER	C2 21	C9 12	C10 3		
CB21		BAT A POWER	C2 27				
CB22		BAT B POWER	C2 27				
C15A5 R.H. CIRCUIT BREAKER PANEL 22							
CB1		INSTRUMENTS NON ESS BUS (SENS)	C2 3				
CB1		NON ESS BUS INSTR	T2 19				
CB2		POT H2O HEATER MN B	C2 4	F3 18			
CB3		POT H2O HEATER MN A	C2 4	F3 18			
CB4		MN B-CRYO SYS 02 TNK HTR	C2 4	F6 23			
CB5		MN A-CRYO SYS 02 TNK HTR	C2 4	F6 23			
CB6		MN B-CRYO SYS H2 TNK HTR	C2 5	F5 23			
CB7		MN B-CRYO SYS H2 TNK HTR	C2 5	F5 23			
CB8		XDUCER PRESS GROUP 1 MN B	C2 5	F1 12	F12 15		

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION				REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
	C15A5	R.H. CIRCUIT BREAKER PANEL 22						
CB9		XDUCER PRESS GROUP 1 MN A	C2 5	F1 12	F2 15			
CB10		XDUCER TEMP MN B	C2 5	F2 25				
CB11		XDUCER TEMP MN A	C2 5	F2 25				
CB12		BAT RLY BUS-BAT B	C2 24					
CB13		BAT RLY BUS-BAT A	C2 24					
CB14		DC SNSR SIG MN B	C2 6	C9 16				
CB15		DC SNSR SIG MN A	C2 6	C9 16				
CB18		MA EVENT SEQ CONT ARM B	C2 24	E6 24 29				
CB19		MA EVENT SEQ CONT ARM A	C2 24	E6 24 29				
CB20		MA EVENT SEQ CONT LOGIC B	C2 24	C9 16	E3 24			
CB21		MA EVENT SEQ CONT LOGIC A	C2 24	C9 16	E2 28			
CB22		GLYCØL PUMPS-AC 2 PHASE C	C4 10	F2 12				
CB23		GLYCØL PUMPS-AC 2 PHASE B	C4 10	F2 12				
CB24		GLYCØL PUMPS-AC 2 PHASE A	C4 10	F2 12	F3 18			
CB25		GLYCØL PUMPS-AC 1 PHASE C	C4 10	F2 12				
CB26		GLYCØL PUMPS-AC 1 PH B	C4 10	F2 12	F3 9			
CB27		GLYCØL PUMPS-AC 1 PHASE A	C4 10	F2 12				
CB28		AC 2 PHASE C-SUIT COMPR	C4 9	F1 11				

DEVICE	LOCATION DWG ZONE	CIRCUIT COMPONENT LOCATION		CONTACT LOCATION				REV
		FUNCTION	DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
	C15A5	R.H. CIRCUIT BREAKER PANEL 22						
CB29		AC 2 PHASE B-SUIT COMPR	C4 9	F1 11				
CB30		AC 2 PHASE A-SUIT COMPR	C4 9	F1 11				
CB31		AC 1 PHASE C-SUIT COMPR	C4 9	F1 11				
CB32		AC 1 PHASE B-SUIT COMPR	C4 9	F1 11				
CB33		AC 1 PHASE A-SUIT COMPR	C4 9	F1 11				
CB34		XDUCER PRESS GROUP 2 MN B	C2 6	F1 26				
CB37		INVERTER CONTROL 3	C2 23	C7 9				
CB38		INVERTER CONTROL 2	C2 23	C7 9				
CB39		INVERTER CONTROL 1	C2 23	C7 9				
CB40		INSRUMENTS ESS MN B	C2 6	M2 29				
CB41		INSRUMENTS ESS MN A	C2 6	M2 29				
CB42		INSRUMENTS NON ESS	C2 3	M3 16				
CB43		XDUCER PRESS GROUP 2 MN A	C2 6	F1 26				
CB44		AC 1 CRYO SYS QTY AMPL 1	C4 9	F5 11				
CB45		TELECOMM GRP 5	T7 16	T2 13	T13 23	M2 29		
CB45		TELECOM GROUP 5	C2 17	T6 9	T10 9	T9 12	T17 21	
CB46		TELECOM GROUP 4	C2 17	T2 13	T17 21			
CB47		TELECOM GROUP 3	C2 17	T2 13	T17 21			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
	C15A5	R.H. CIRCUIT BREAKER PANEL 22					
CB48		TELECOM GROUP 2	C4 11	T3 23	T20 17	T6 9	
CB49		TELECOMM GRP 1	T16 3	T22 12	T3 14	T13 22	
CB49		TELECOM GROUP 1	C4 12	T10 9			
CB50		TELECOM PCM TLM	T3 14	T9 11	C4 12	T5 4	
CB51		TELECOM SIG COND	T3 23	T20 11	M2 29	C4 11 T9 11 T6 9	
CB52		CENTRAL TIMING SYS MN B	C2 6	T2 19	T12 8		
CB53		CENTRAL TIMING SYS MN A	C2 6	T2 19	T12 8		
CB54		OPTICS MN B-G AND N	C2 7	G5 29			
CB55		OPTICS MN A-G AND N	C2 7 17	G5 29 5			
CB56		COMPUTER MN B-G AND N	C2 7	G6 22			
CB57		COMPUTER MN A-G AND N	C2 7	G6 22			
CB58		IMU MN B-G AND N	C2 7	G7 23			
CB59		IMU MN A-G AND N	C2 7	G7 23			
CB60		IMU HTR MN B-G AND N	C2 8	G7 24			
CB61		IMU HTR MN A-G AND N	C2 8	G7 24			
CB62		VIEWER AC 2-G AND N	C4 9	G4 23			
CB63		F/C 1 H2-02 VALVE	C2 23	C11 23			
CB64		F/C 1 CIR/SEP MTRS	C4 4	C11 14			

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CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION				REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
	C15A5	R.H. CIRCUIT BREAKER PANEL 22						
CB65		F/C 1 BUS CONT		C2 23	C3 22			
CB66		F/C 1 PURGE		C2 13	C11 14			
CB67		AC 2-ECS RAD VALVE 2A		C4 9	F2 25			
CB68		AC 2-ECS RAD VALVE 1B		C4 9	F2 25			
CB69		AC 1-ECS RAD VALVE 2B		C4 9	F2 25			
CB70		AC 1-ECS RAD VALVE 1A		C4 9	F2 25			
CB71		PHASE C CABIN AIR FAN 2		C4 8	F2 6			
CB72		PHASE B CABIN AIR FAN 2		C4 8	F2 6			
CB73		PHASE A CABIN AIR FAN 2		C4 8	F2 6			
CB74		PH C CABIN AIR FAN 1		C4 8	F3 9	F2 6		
CB75		PH B CABIN AIR FAN 1		C4 8	F3 9	F2 6		
CB76		PH A CABIN AIR FAN 1		C4 8	F3 9	F2 6		
CB77		BAT B CHARGE		C2 24	C10 3			
CB78		BAT A CHARGE		C2 24	C10 3			
CB79		MN B BATTERY CHARGER		C2 4	C10 16			
CB80		MN A BATTERY CHARGER		C2 4	C10 16			
CB81		AC PWR BATTERY CHARGER		C4 12	C10 15/16			
CB82		F/C 2 H2/O2 VALVE		C2 23	C12 23			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
	C15A5	R.H. CIRCUIT BREAKER PANEL 22					
CB83		F/C 2 CIR/SEP MTRS	C4 4	C12 14			
CB84		F/C 2 BUS CONT	C2 23	C3 23			
CB85		F/C 2 PURGE	C2 13	C12 14			
CB86		F/C 3 H2/O2 VALVE	C2 23	C13 23			
CB87		F/C 3 CIR/SEP MTRS	C4 4	C13 14			
CB88		F/C 3 BUS CONT	C2 23	C3 23			
CB89		F/C 3 PURGE	C2 13	C13 14			
CB90		AC 1 CRYO SYS QTY AMPL 2	C4 7	F5 11			
CB91		WASTE AND POT H2O MN B	C2 8	F3 22			
CB92		WASTE AND POT H2O MN A	C2 8	F3 22			
CB93		VIEWER AC 1G AND N	C4 9	G4 23			
CB94		ECS H2O ACCUM MN A	C2 8	F1 21			
CB95		ECS H2O ACCUM MN B	C2 8	F1 21			
CB96		NON ESS INSTR	T2 19	T16 4	C2 3		
CB97		SCIENTIFIC INSTR	C2 3				
CB98		PHASE C CRYO TK FAN	C4 7	F5 23			
CB99		PHASE B CRYO TK FAN MTRS	C4 7	F5 23			
CB100		PHASE A CRYO TK FAN MTRS	C4 7	F5 23			

DEVICE	LOCATION	CIRCUIT COMPONENT	LOCATION	CONTACT	LOCATION	REV
	DWG ZONE		FUNCTION		DWG ZONE	
	C15A5	R.H. CIRCUIT BREAKER PANEL 22				
CB101		PHASE C CRYO TK FAN MTRS	C4 7	F6 23		
CB102		PHASE B CRYO TK FAN MTRS	C4 7	F6 23		
CB103		PHASE A CRYO TK FAN MTRS	C4 7	F6 23		
CB116		AC 1 GAS ANAL	C4 5	M2 29		
CB117		SCIEN EQUIP SEB 1	C2 3	T2 19		
CB118		SCIEN EQUIP SEB 2	C2 3	T2 19		
CB119		SCIEN EQUIP HATCH	C2 3	T2 19		
S1		FUEL CELL PUMP 1	C4 10	C11 14		
S2		FUEL CELL PUMP 2	C4 10	C12 14		
S3		FUEL CELL PUMP 3	C4 10	C13 14		
S7		G AND N VIEWER	C4 9	G4 23		
S8		NON ESS BUS	C2 3	T2 19		
S9		BAT A AND C	C2 23	C10 8		
S10		BAT B AND C	C2 23	C10 8		
S11		BAT CHARGER	C4 13			
S12		TELECOM ESS	C4 13	T5 5		
S13		TELECOM NON ESS	C4 13	T4 5 T10 9		

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION		DWG ZONE	REV
	DWG ZONE			DWG ZONE	DWG ZONE		
	C15A6	L.H. CIRCUIT BREAKER PANEL 25					
CB7		ELS B-BAT B	C2 25	E4 29			
CB8		FLS A-BAT A	C2 25	E4 29	E4 9		
CB9		C/M-S/M TRANSFER MN B-RCS	C2 9	R7A 44			
CB10		C/M-S/M TRANSFER MN A-RCS	C2 9	R-7 21			
CB15		PROP ISOL MN B-RCS	C2 9	R2 19			
CB16		PROP ISOL MN A-RCS	C2 9	R2 19			
CB17		GAUGING MN B-RCS	C2 10	R13 17			
CB18		GAUGING MN A-RCS	C2 10	R13 17			
CB19		GAUGING AC 2-SPS	C4 15	P3 5			
CB20		GAUGING AC 1-SPS	C4 15	P3 5			
CB21		GAUGING MN B-SPS	C2 10	P3 4			
CB22		GAUGING MN A-SPS	C2 10	P3 4			
CB23		BAT B-GIMBOL MOT YAW 2	C2 25	F3 54	P1 12		
CB24		BAT A-GIMBOL MOT YAW 1	C2 25	F3 54	P1 12		
CB25		BAT B-GIMBOL MOT PITCH 2	C2 25	P1 12			
CB26		BAT A-GIMBOL MOT PITCH 1	C2 25	P1 12			
CB27		HE VALVE MN B-SPS	C2 10	P2 28			
CB28		HE VALVE MN A-SPS	C2 10	P2 28			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
	C15A6	L.H. CIRCUIT BREAKER PANEL 25					
CB31		YAW 2 MN B-SCS	C2 10	H6 3			
CB32		YAW 1 MN A-SCS	C2 10	H6 3			
CB33		B AND D ROLL MN B-SCS	C2 10	H5 3			
CB34		B AND D ROLL MN A-SCS	C2 10	H5 3			
CB35		A AND C ROLL MN B-SCS	C2 11	H5 3			
CB36		A AND C ROLL MN A-SCS	C2 11	H5 3			
CB37		FLOODLIGHTS MN B	C2 11				
CB38		FLOODLIGHTS MN A	C2 11				
CB39		PITCH 2 MN B-SCS	C2 11	H4 2			
CB40		PITCH 1 MN A-SCS	C2 11	H4 2			
CB41		DIRECT CONT MN B-SCS	C2 12	R8 23			
CB42		DIRECT CONT MN A-SCS	C2 12	R8 23			
CB43		SCS GROUP 1 MN B	C2 12	H2 28			
CB44		SCS GROUP 1 MN A	C2 12	H2 28			
CB45		SCS GROUP 1 AC 2	C4 15	H2 28			
CB46		SCS GROUP 1 AC 1	C4 15	H2 28			
CB47		AC SNSR SIG AC 2	C4 15	C8 15			
CB48		AC SNSR SIG AC 1	C4 15	C8 15			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION DWG ZONE	FUNCTION	CONTACT LOCATION				REV
			DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
	C15A6	L.H. CIRCUIT BREAKER PANEL 25					
CB50		CAUT/WARN MN A	A3 15	C2 12			
CB51		CAUT/WARN MN B	A3 15	C2 12			
CB52		EDS 1 BAT A	C2 25	T1 27	E2 26	T12 8	
CB53		EDS 3 BAT B	C2 25	E2 26	T1 28	T12 8	
CB54		EDS 2 BAT C	C2 20	E2 26			
CB57		EVENT TIMER MN A	C2 13	E2 26			
CB58		EVENT TIMER MN B	C2 13				
CB59		BIO-MED COMM MN A	C2 13				
CB60		BIO-MED COMM MN B	C2 13				
CB63		VENT FAN BAT C	C2 17	E4 9			
CB64		SCS GROUP 2 MN B	C2 13	H2 28			
CB65		SCS GROUP 2 MN A	C2 13	H2 28			
CB66		SCS GROUP 2 AC 2	C4 15	H2 28			
CB67		SCS GROUP 2 AC 1	C4 15	H2 28			
CB68		FLOAT BAG BAT C	C2 17	E4 9			
S1		G AND N SYNC	G2 3				
S6		SPS GAUGING	C4 15	P3 5			
S8		ANTENNA DEPLOY A	E5 25				

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		
	C15A6	L.H. CIRCUIT BREAKER PANEL 25					
S16		ANTENNA DEPLOY B	E5	12			
S9		BEACON LIGHTS					
S11		VENT FAN	C2	17	E4	8	
S12		FLOATING BAG 1	C2	17	E4	8	
S13		FLOATING BAG 2	C2	17	E4	8	
S14		FLOATING BAG 3	C2	17	E4	8	
S15		FDAI LTG	C4	15			
S15		FDAI LTG	H2	28			
S17		MESC LOGIC ARM A	E2	29			
S18		MESC LOGIC ARM B	E3	24			
	C22-1A34	CONTROL LOWER EQUIPMENT BAY PANEL 98					
R1		PRIMARY FLOODLIGHTS					
S1		SECONDARY FLOODLIGHTS					
	C22-2A51	ATTITUDE SET AND GIMBAL DISPLAY PANEL 6					
B1		ATT SET YAW	H7	19			
B2		ATT SET PITCH	H7	19			
B3		ATT SET ROLL	H7	19			
R1		GIMBAL YAW	H8	22			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION			REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE	
	C22-2A51	ATTITUDE SET AND GIMBAL DISPLAY PANEL 6					
R2		GIMBAL PITCH	H8 22				
R3		GIMBAL YAW	H8 22				
R4		GIMBAL PITCH	H8 22				
S1		FDAI ALIGN	H3 22				
S2		ATTITUDE SET	H3A 36				
	C22-2A55	EMERGENCY DETECTION SYSTEM SEQUENCER DISPLAY PANEL 5					
S6		ADPT SEP	E2 13	E3 13			
S8		DRØGUE DEPLOY	E4 22				
S9		MAIN DEPLOY	E4 22				
S11		NØ AUTO ABØRT	E2 24	E3 20			
S12		CANARD DEPLOY	E2 13	E3 13			
S13		LES MØTØR FIRE	E2 9	E3 9			
S14		APEX CØVER JETT	E4 23				
	C22-2A56 C22-2A91	MDC AUX CØNTRØL PANEL 2					
R1		FDAI BRIGHTNESS	H2 27				
S1		FDAI SELF TEST	H3A 36				
S2							
S3							

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	DWG ZONE	CONTACT LOCATION			REV
	DWG ZONE				DWG ZONE	DWG ZONE	DWG ZONE	
C22-2A57 EMERGENCY DETECTION/DRIVE CONTROL PANEL								
S1			SPS GIMBAL MOTORS YAW 1	P1	11			
S2			SPS GIMBAL MOTORS YAW 2	P1	11			
S3			SPS GIMBAL MOTORS PITCH 1	P1	11			
S4			SPS GIMBAL MOTORS PITCH 2	P1	11			
S5			MASTER ALARM	A3	6			
S7			SPS INJECT PRE-VALVE A	P2	26			
S8			SPS INJECT PRE-VALVE B	P2	26			
S9			L/VAOA/SPS PC	P2	2	M9	B	
C22-2A58 MISSION SEQUENCE CONTROL PANEL 24								
S1			EDS POWER	E2	26	T12	7	
S3			MESC PYRO ARM	E5	29			
S4			MESC LOGIC	E2	29	E3	24	
S9			BMAG POWER	H2	23			
S12			RATE GYRO POWER	H2	23			
S13			PARTAIL SCS POWER	H2	23			
S14			TVC 1 POWER	H2	23			
S15			TVC 2 POWER	H2	23			
S16			ROTATION CONTROL POWER	H2	23			
S17			MESC PYRO ARM	E5	29			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION			REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE	
	C22-2A59	L.H. AUDIO AND LIGHTING CONTROL PANEL 26					
R1		VOLUME	T17 6				
R2		INTERCOM BALANCE	T17 14				
R3		VOX SENS	T17 14				
R4		PRIMARY FLOODLIGHT	A5 11				
S1		S-BAND T/R-REC	T20 26	T21 8			
S2		HF T/R-REC	T24 8	T23 20	T23 16		
S3		VHF-AM T/R-REC	T18 21	T18 16	T19 6		
S4		INTERCOM T/R-REC	T17 14				
S5		POWER PTT/VOX	T2 18	T17 19	T17 14		
S6		SECONDARY FLOODLIGHTS	A5 11				
S7		EDS/SEQ LAMP TEST					
S9		HE DUMP	R7 19	R7A 43			
	C22-2A61	CREW SAFETY CONTROL PANEL 16					
S1		ABORT SYS OX DUMP	E2 7	E3 7			
S2		ABORT SYS EDS	E2 23	E3 20			
S3		RCS C/M PRESS	E2 11	E3 11			
S8		ABORT SYS 2 ENG OUT	E2 20	E3 19			
S9		ABORT SYS L/V RATES	E2 20	E3 19			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION DWG ZONE	FUNCTION	DWG ZONE	CONTACT LOCATION DWG ZONE	DWG ZONE	DWG ZONE	REV
C22-2A61 CREW SAFETY CONTROL PANEL 16							
S11		RCS COMMAND	E2 7	E3 7			
S14		RCS XFER	R7 19	R7A 43			
S15		ABORT SYS LES-SPS MODES	E2 7				
<i>S16</i>		<i>C/M S/M SEPERATE</i>	<i>E2 16</i>	<i>E3 16</i>			
S17		MAIN CHUTE RELEASE	E4 12				
S18		MAIN CHUTES RELEASE	E4 18				
S19		ABORT SYS LES-SPS MODES	E3 7				
C22-2A62 RADIATION AUDIO CRYOGENICS AND ECS SYS PANEL 13							
R1		VOLUME	T17 6				
R2		INTERCOM BALANCE	T17 14				
R3		VOX SENS	T17 14	<i>T11 17</i>			
R4		CABIN TEMP	F2 7				
S1		S-BAND REC T/R	T11 17	<i>T21 8</i>	<i>T20 26</i>		
S2		HF REC T/R	T11 17	<i>T23 20</i>	<i>T24 8</i>	<i>T23 16</i>	
S3		VHF-AM REC T/R	T11 17	<i>T18 16</i>	<i>T18 21</i>	<i>T19 6</i>	
S4		INTERCOM REC T/R	T11 17	<i>T17 14</i>			
S5		POWER VOX-PTT	T11 17	<i>T17 14</i>	<i>T2 18</i>	<i>T17 20</i>	
S8		SUIT EVAP	F3 9				
S10		H2O IND POT-WASTE	F3 20				

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
C22-2A62 RADIATION AUDIO CRYOGENICS AND ECS SYS PANEL 13							
S12		CABIN TEMP	F2	7			
S14		02 HEATER 1	F6	21			
S15		02 HEATER 2	F6	21			
S16		H2 HEATER 1	F5	21			
S17		H2 HEATER 2	F5	21			
S22		GLY EVAP H2O FLOW	F3	15	E3	17	
S23		GLY EVAP BACK PRESS	F3	14			
S24		GLY EVAP BACK PRESS	F3	14			
S25		GLY EVAP TEMP IN	F2	22			
S26		H2O ACCUM AUTO/MAN	F1	20			
S27		H2O ACCUM 1 OR 2 ON	F1	20			
S28		02 PRESS IND	F1	24	F6	3	
S31		02 FAN 1	F6	21			
S32		02 FAN 2	F6	21			
S33		H2 FAN 1	F5	21			
S34		H2 FAN 2	F5	21			
S35		C/W LAMP MODE	A3	8			
S36		WASTE H2O TK REFILL	F3	20			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION		REV
	DWG ZONE			DWG ZONE	DWG ZONE	
	C22-2A63	REACTION CONTROL SYS AND GMT PANEL 12				
S2		RCS INDICATORS	R13	13		
	C22-2A64	REACTION CONTROL SYSTEM PANEL 15				
S1		S/M QTY GAGING POWER	R13	16		
S2		S/M QTY GAGING TEST	R13	16		
S3		S/M RCS A HELIUM NO 1	R3	17		
S4		S/M RCS B HELIUM NO 1	R4	17		
S5		S/M RCS C HELIUM NO 1	R5	17		
S6		S/M RCS D HELIUM NO 1	R6	17		
S7		S/M RCS HELIUM A	R2	2B		
S8		S/M RCS HELIUM B	R2	2B		
S9		S/M RCS A HELIUM NO 2	R3	16		
S10		S/M RCS B HELIUM NO 2	R4	16		
S11		S/M RCS C HELIUM NO 2	R5	16		
S12		S/M RCS D HELIUM NO 2	R6	16		
S13		C/M RCS PROPELLANT A	R2	16		
S14		C/M RCS PROPELLANT B	R2	16		
S15		S/M RCS A PROPELLANT	R3	9		
S16		S/M RCS B PROPELLANT	R4	9		
S17		S/M RCS C PROPELLANT	R5	9		
S18		S/M RCS D PROPELLANT	R6	9		

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
	C22-2A65	REACTION CONTROL SYSTEM PANEL 17					
S1		UHF ANTENNA HF ANTENNA		T24 20	T23 5		
	C22-2A66	R.H. MASTER CAUTION PANEL 11					
S1		CAUTION/WARNING POWER	A3	10			
S2		CAUTION/WARNING MODE	A3	10			
	C22-2A67	FUEL CELL AND ELECT PWR PNL 18					
S1		F/C 02/H2 PURGE F/C NO 1	C11	13			
S2		F/C 02/H2 PURGE F/C NO 2	C12	13			
S3		F/C 02/H2 PURGE F/C NO 3	C13	13			
S4		F/C 1 REACTANTS	C11	22			
S5		F/C 2 REACTANTS	C12	22			
S6		F/C 3 REACTANTS	C13	22			
S7		FUEL CELL INDICATORS	C14	17			
S10		BATTERY CHARGER	C10	7			
S11		MASTER ALARM	A3	12			
S12		F/C 1 MAIN BUS A	C3	20			
S13		F/C 2 MAIN BUS A	C3	20			
S14		F/C 3 MAIN BUS A	C3	20			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		
C22-2A67 FUEL CELL AND ELECT PWR PNL 18							
S15		MAIN BUS A RESET/OFF	C9	4			
S16		F/C 1 MAIN BUS B	C3	19			
S17		F/C 2 MAIN BUS B	C3	19			
S18		F/C 3 MAIN BUS B	C3	19			
S19		MAIN BUS B RESET/OFF	C9	4			
S20		DC INDICATORS	C9	11			
S22		AC INVERTER 1 ON/OFF	C7	7			
S23		AC INVERTER 2 ON/OFF	C7	7			
S24		AC INVERTER 3 ON/OFF	C7	8			
S25		AC BUS 1 RESET/OFF	C8	11 7			
S26		INV 1-AC BUS 1	C7	7			
S27		INV 2-AC BUS 1	C7	7			
S28		INV 3-AC BUS 1	C7	7			
S29		AC BUS 2 RESET/OFF	C8	11 7			
S30		INV 1-AC BUS 2	C7	7			
S31		INV 2-AC BUS 2	C7	7			
S32		INV 3-AC BUS 2	C7	7			
S33		AC INDICATORS	C8	11			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		
C22-2A68 COMM, DATA LINK, SPS AND S-BAND ANTENNA SELECT PANEL 20							
R1		SQUELCH	T19 8				
S1		S-BAND XPONDER/XPONDER PWR	T2 11 T21 20	T11 10 T20 12	T6 9 T15 5	T12 19	
S2		S-BAND PWR AMPL-HIGH/LOW	T4 4	T11 10	T20 6	T15 9	
S3		S-BAND OSC-PRIM/SEC	T4 7	T20 21	T6 15	T11 11	
S4		S-BAND EMERG-VOICE/KEY	T2 11 T11 14	T6 15 T6 22	T6 21	T20 21	
S5		S-BAND VOICE-RNG/RNG ONLY	T15 35	T11 16	T11 14 T6 17	T20 21 T6 15	
S6		S-BAND VOICE-TAPE/ANLG	T15 17 T14 14	T6 16 T11 14	T6 18 T10 6	T14 17 T5 5	
S7		S-BAND VOICE-TV/PLSS	T15 14 T15 14	T6 16 T15 10	T11 14 T14 14	T19 16 T5 7	T6 19
S8		UP DATA S-BAND/UHF	T2 11	T4 6	T12 13		
S9		RECOVERY HF	T11 14	T23 20	T23 5	T24 9	
S10		RECOVERY HF-ON/OFF	T2 11	T24 21	T23 14	T2 3	
S11		RECOVERY VHF-BCN-ON/OFF	T2 11	T4 15			
S12		VHF-FM-ON/OFF	T2 11	T22 12	T10 4	T6 10	T10 8
S13		C-BAND-1 PULSE/2 PULSE	T2 11	T4 5	T7 14		
S14		VHF-AM T/R-REC	T2 11	T19 17	T18 15		
S15		VHF-AM RCVR	T19 14				
S16		TAPE RECORDER-RECORD/PLAY	T2 11	T13 22	T11 14	T10 8	T6 19
S17		TAPE RECORDER-FWD/REV	T2 11	T13 22	T11 13	T10 8	

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		
C22-2A68 COMM, DATA LINK, SPS AND S-BAND ANTENNA SELECT PANEL 20							
S18		TAPE RECORDER SPEED	T2 11	T11 13			
S19		TAPE RECORDER PLAY	T45 7	T6 18	T14 17	T10 6	
S20		TLM INPUTS PCM	T5 10	T13 14	T13 22		
S21		TLM INPUTS ANALOG	T4 10	T6 21			
S22		POWER SCE	T2 11	T9 11	M2 28		
S23		POWER PMP	T2 11	T6 9	T20 21	T13 23	T6 22
S24		TLM INPUTS BIOMED	M8 11				
S26		SPS HELIUM A-AUTO/ON	P2 26				
S27		SPS HELIUM B-AUTO/ON	P2 26				
S32		S-BAND ANTENNA	T2 11 T6 9	T5 3 T20 12	T14 8 T21 20	T11 8 T12 19	T6 3 T15 5
S35		VHF ANTENNA	T2 11 T10 1	T14 10 T19 21	T13 4 T18 7	T11 12 T12 18	T22 8 T5 3
S36		SPS TANK PRESS	P2 10				
S101							
S102		VALVE SENSOR PRI/AUX	P3				
S103		VALVE SENSOR PRI/SEC	P3				
S104		OX FLOW INC/DECR	P3				

C22-2A70 R.H. SIDE CONSOLE BUS SWITCHING PANEL 21

CB1 RCS HEATERS A MN A C2 ~~18~~ 13 ~~R7A 45~~

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		
C22-2A70 R.H. SIDE CONSOLE BUS SWITCHING PANEL 21							
CB2		RCS HEATERS B MN B	C2	X/13	R7	21	
CB3		RCS HEATERS C MN B	C2	X/13	R5	3	
CB4		RCS HEATERS D MN A	C2	X/13	R6	3	
CB5		SNSR UNIT DC BUS A	C2	22	C9	9	
CB6		SNSR UNIT DC BUS B	C2	22	C9	9	
CB7		SNSR UNIT AC BUS 1	C2	22	C8	X/9	
CB8		SNSR UNIT AC BUS 2	C2	22	C8	X/9	
S2		SUIT COMPRESSOR	F1	10			
S7		ECS RADIATOR 1 A	F2	26			
S8		ECS RADIATOR 1 B	F2	26			
S9		ECS RADIATOR 2 A	F2	26			
S10		ECS RADIATOR 2 B	F2	26			
S13		POT H2O HEATER	F3	17			
S14		ECS GLYCOL	F2	11			
S16		CABIN AIR FAN 1	F2	5			
S17		CABIN AIR FAN 2	F2	5			

C22-2A71 R.H. AUDIO AND LIGHTING CONTROL PANEL 23

R1	VOLUME	T17 6
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CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION			REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE	
C22-2A71 R.H. AUDIO AND LIGHTING CONTROL PANEL 23							
R2		INTERCOM BALANCE	T17 14				
R3		VØX SENS	T17 14				
R4		PRIMARY FLOODLIGHTS	A5 11				
S1		S-BAND T/R-REC	T20 26	T21 8			
S2		HF T/R-REC	T24 8	T23 20	T23 16		
S3		VHF/AM T/R-REC	T18 21	T18 16	T19 6		
S4		INTERCOM T/R-REC	T17 14				
S5		POWER PTT/VØX	T2 18	T17 19	T17 14		
S6		SECONDARY FLOODLIGHTS	A5 11				
S7		LAMP TEST	A3 7				
C22-2A85 ELS/SCS CREW SAFETY CONTROL PANEL 8							
S1		ATTITUDE/ENTRY MONITOR	H3 25				
S2		DELTA V	H3 24				
S3		G/N SCS XFER	H3 26				
S4		SCS ATTITUDE	H3 24				
S5		.05G BACKUP	H3 25				
S6		LIMIT CYCLE	H3A 37				
S7		ATT DEADBAND	H3 25				

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION DWG ZONE	FUNCTION	DWG ZONE	CONTACT LOCATION			REV
				DWG ZONE	DWG ZONE	DWG ZONE	
C22-2A85 ELS/SCS CREW SAFETY CONTROL PANEL 8							
S8		RATE GYRO ROLL	H3 25				
S9		RATE GYRO PITCH	H3 25				
S10		RATE GYRO YAW	H3 26				
S11		SCS AC ROLL	H5 4	H5 22			
S12		SCS BD ROLL	H5 4	H5 22			
S13		SCS PITCH	H4 20	H4 3			
S14		SCS YAW	H4 21	H6 3	H6 20		
S15		DIRECT RCS	H2 27	R8 22			
S16		ELS LOGIC	E4 28				
S17		DIGITAL EVENT TIMER RESET					
S18		DIGITAL EVENT TIMER START					
S19		DIGITAL EVENT TIMER MIN					
S20		DIGITAL EVENT TIMER SEC					
S21		COUCH UNLOCK					
S22		C/M PROP JET LOGIC	R7 18	R7A 42			
S23		C/M PROP JET DUMP	R7 18	R7A 42			
S24		C/M PROP JET PURGE	R7 18	R7A 43			

C22-2A91 SEE PAGE 13

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		
C23							
CB23		ECS HEATER	C2	14			
CB24		ECS HEATER	C2	14 15			
S1		ATTITUDE SWITCH OPEN	E4	7			
S2		MANUAL VENT OPEN BACKUP	E4	7			
C26-4A44 AUXILIARY DISPLAY PANEL 97							
S1		FUNCTION SELECT	C14	15			
S2		TEST SELECT	C14	15			
S3		CM RCS HTRS	R7	16	R7A	40	
C27-1A17 G AND N OPTICS CONTROL PANEL							
S19		MINIMUM IMPULSE SWITCH	H6	21	H4	21	H5 22
C27-1A27 IMU CONTROL PANEL 101							
S3		MANUAL ALIGN					
S4		TRANSFER COMPUTER/MANUAL	G3	4			
S5		ZERO ENCODER	G3	4			
S6		COURSE ALIGN	G3	4			
S7		CDU MANUAL	G3	4			
S8		FINE ALIGN	G3	4			
S9		ATT CONT	G3	4			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION DWG ZONE	FUNCTION	CONTACT LOCATION				REV
			DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
	C27-1A27	IMU CONTROL PANEL 101					
S10		ENTRY	G3	4			
	C27-1A28	CDU CONTROL PANEL 102					
A3S1		OUTER GIMBAL	G3	5			
A4S1		INNER GIMBAL	G3	5			
A5S1		MIDDLE GIMBAL	G3	5			
	C27-1A31	G AND N OPTICS CONTROL PANEL 105					
R1		PANEL BRIGHTNESS	G4	15			
S1		CHECK CONDITION LAMPS	G4	19	G6	19	G10 22
S2		CHECK COOLANT	G4	19			
S3		CONTROLLER SPEED	G3	4	G5	9	
S4		TRACKER POWER	G5	23			
S7		IMU TEMP MODE ZERO					
S8		IMU TEMP MODE PIPA					
S10		ATTITUDE IMPULSE ENABLE	H3A	38			
S11		OPTICS - MODE	G5	23			
S12		OPTICS-TRACK	G4	19			
S14		SLAVE TELESCOPE	G3	4			
S15		OPTICS MODE	G3	4			
S16		IMU TEMP MODE	G3	4			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		

C27-1A31 G AND N OPTICS CONTROL PANEL 105

S17		CHECK MODE LAMPS					
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G4 19

S18		POWER AND BRIGHTNESS					
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S19		ATTITUDE IMPULSE					
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S20		FILM DRIVE/SINGLE FRAME					
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S21							
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S23		IRIG					
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S24		MARK					
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G4 19

C27-1A32 AGC COMPUTER DISPLAY AND KEYBOARD PANEL 106

R1		BRIGHTNESS					
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S1							
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S2							
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S3							
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S4							
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S5							
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S6							
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S7							
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S8							
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S9							
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CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION				REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE		

C27-1A32 AGC COMPUTER DISPLAY AND KEYBOARD PANEL 106

S10

S11

S12

S13

S14

S15

S16

S17

ERROR RESET

S18

TEST ALARM

S19

KEY RELEASE

C27-2A60 GUIDANCE AND NAVIGATION COMPUTER CONTROL PANEL 14

R1

BRIGHTNESS

S1

S2

S3

S4

S5

S6

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION				REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE		

C27-2A60 GUIDANCE AND NAVIGATION COMPUTER CONTROL PANEL 14

S7

S8

S9

S10

S11

S12

S13

S14

S15

S16

S17

ERROR RESET

S18

TEST ALARM

S19

KEY RELEASE

C28A25 DC POWER CONTROL MODULE

CB1

M2 27

CB2

M2 27

CB3

M2 27

CB8

M3 15

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		

C28A25 DC POWER CONTROL MODULE

CB9

M3 15

C29-2A50 DELTA V DISPLAY PANEL 7

S1
A1S1
S2
A3S1
A3S2
A3S3
A3S4
A3S5

DELTA V SET
THRUST ON
NORMAL/DIRECT ON
DIRECT ULLAGE
DIRECT ULLAGE
DIRECT ULLAGE
DIRECT ULLAGE
DIRECT ULLAGE

H9 25
H9 18
H9 7
R8 22
R8 22
R8 22
R8 22
R8 22
~~R8 22~~

SS

AGC PANEL 107

~~AGC PANEL 107~~

S1

AGC MODE

A2 7

S14A1

CB9

S/M MN BUS 'B' SIGNAL

C3 10

CB10

S/M MN BUS 'A' SIGNAL

C3 10

CIRCUIT COMPONENT

LOCATION LIST

(RELAYS, TIME DELAYS & MOTOR SWITCHES)

SC-008 DOWNEY & MSC	CODE IDENT NO. 03953	SIZE A	VI4-900208 VOL. I	
	SCALE		SHEET	1.7

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION				REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
C14								
S2	C7	6	DC BUS B INV 2 CONT	C2	16	C4	23	C7 6
S3	C7	4	DC BUS A INV 3 CONT	C7	5	C4	23	C2 16
S01	C7	6	DC BUS A INV 1 CONT	C2	16	C4	23	C7 6
C14A1 AC CONTROL BOX								
K20	C17 05		AC BUS 2 INV DISCONNECT	C7	5			
K21	C17 15		AC BUS 1 INV DISCONNECT	C7	5			
S4	C7	4	INV 1-BUS 2	C7	4	C7	5	C4 17
S5	C7	4	INV 1-BUS 1	C7	4	C7	5	C4 17
S6	C7	4	INV 2-BUS 2	C7	4	C4	17	
S7	C7	4	INV 2-BUS 1	C7	4	C4	17	
S8	C7	4	INV 3-BUS 2	C7	4	C7	5	C4 17
S9	C7	4	INV 3-BUS 1	C7	4	C7	5	C4 17
C14A2 DC CONTROL BOX								
S4	C10	4	BAT BUS B	C10	4	C2	19	
S5	C10	5	BAT BUS A	C10	5	C2	19	
C14A3								
S1	C7	4	DC BUS B INVERTER 3	C7	5	C2	16	C4 23

DEVICE	LOCATION		FUNCTION	CIRCUIT COMPONENT LOCATION				REV
	DWG	ZONE		DWG	ZONE	CONTACT LOCATION	DWG	

C14A13 UPRIGHTING CONTROL UNIT

K1	E4	6	FLOTATION PUMP UNIT A	E4	6		
K2	E4	6	FLOTATION PUMP UNIT B	E4	6		
S1	E4	6	FLOTATION PUMP UNIT A	E4	6		
S2	E4	6	FLOTATION PUMP UNIT B	E4	6		

C14 *SEE PAGE 1*

S2	C7	6	DC BUS B INV 2	C7	6	C2	16
S3	C7	4	DC BUS A INV 3	C7	4	C7	5 C2 16
S6	C7	6	DC BUS A INV 1	C7	6	C2	16

C15A1 CIRCUIT UTILIZATION BOX

K1	T2	8	S POWER AMPL	T3	22	T6	8	
K2	T2	8	UNIFIED S BAND EQUIP	T2	8	T3	22	T6 8 T20 16
K3	T2	7	C BAND TRANSPONDER	T3	11	T7	13	
K4	C10	12	BATTERY CHARGE CONT	C10	12			
K5	T2	8		T2	8	T7	13	
K7	H9	16	FLT COMB CONTROL	H9	16			

C18A1 MASTER EVENT SEQUENCE CONTROLLER SYS A

Z1K1	E2	17	EDS ABORT 2	E2	23	E5 6 6
Z1K2	E2	17	EDS ABORT 1	E2	23	E7 6 6

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION		REV
	DWG	ZONE	DWG	ZONE	DWG	ZONE
C18A1 MASTER EVENT SEQUENCE CONTROLLER SYS A						
Z2K1	E2	17	EDS ABORT 3	E2	23	E6 6
Z2K2	E2	24	EDS BUS CHANGE OVER	E2	24	E6 10
Z3K1	E2	4	E/T SEPARATE	E2	16	E2 27 E6 6
Z3K2	E2	4	E/T SEPARATE	E2	16	E2 27 E6 6
Z4K1	E2	22	AUTO ABORT ENABLE	E2	22	E2 26 E3 19 E6 10
Z4K2	E2	22	AUTO ABORT ENABLE	E2	22	E2 25 E3 19 E6 10
Z5K1	E2	18	BOOSTER CUTOFF	E2	18	E2 16 E6 8
Z5K2	E2	18	BOOSTER CUTOFF	E2	18	E2 16 E6 7
Z6K1	E2	15	LES ABORT	E2	15	E2 16 15 E6 9
Z6K2	E2	15	LES ABORT	E2	15	E2 16 15 E6 8
Z7K1	E2	9	CM RCS PRESSURE	E5	24	E6 11
Z7K2	E2	9	CM RCS PRESSURE	E5	24	E6 11
Z8K1	E2	11	CM/SM DEADFACE	E2	11	E5 23 E6 11
Z8K2	E2	11	CM/SM DEADFACE	E2	11	E5 23 E6 10
Z9K1	E2	8	CM/SM SEPARATE	E2	8	E5 21 E5 22 E6 10
Z9K2	E2	8	CM/SM SEPARATE	E2	8	E5 21 E5 22 E6 10
Z10K1	E2	7	LES MTR FIRE	E5	20	E6 9
Z10K2	E2	7	LES MTR FIRE	E5	20	E6 9

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	DWG ZONE	CONTACT LOCATION		REV
	DWG	ZONE			DWG ZONE	DWG ZONE	
C18A1 MASTER EVENT SEQUENCE CONTROLLER SYS A							
Z11K1	E2	11	CANARD DEPLOY	E2	11	E5 19 E6 8	
Z11K2	E2	11	CANARD DEPLOY	E2	11	E5 19 E6 8	
Z12K1	E4	19	ELS ACTIVATE	E4	19	E4 24	
Z12K2	E4	19	ELS ACTIVATE	E4	19	E4 24	
Z13K1	E2	4	E/T JETT FIRE-TWR BOLTS	E5	17	E6 5 E6 4	
Z13K2	E2	4	E/T JETT FIRE-TWR BOLTS	E5	17	E6 5 E6 4	
Z14K1	E4	20	APEX COVER JETT	E2	6	E5 17 E5 16 E6 7	
Z14K2	E4	20	APEX COVER JETT	E2	5	E5 17 E5 16 E6 7	
Z16K1	E2	13	ULLAGE	E6	5	R8 19	
Z16K2	E2	13	ULLAGE	E6	5	R8 18	
Z17K1	E2	11	ADAPTER SEP	E2	11	E5 16 E6 6	
Z17K2	E2	11	ADAPTER SEP	E2	11	E5 16 E6 6	
Z18K1	E2	9	DSIF ANT.	E2	9	E5 16 E6 5	
Z18K2	E2	9	DSIF ANT.	E2	9	E5 16 E6 4	
Z19K1	E2	3	RCS ENABLE (L)	E6	7		
Z19K1	E2	5	RCS ENABLE SAFE (UL)	E6	7	H4 22 H5 22	
Z19K2	E2	3	RCS ENABLE (L)	E6	8		
Z19K2	E2	5	RCS ENABLE SAFE (UL)	E6	8	H4 22 H5 22	

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION		REV
	DWG	ZONE		DWG	ZONE	
C18A1 MASTER EVENT SEQUENCE CONTROLLER SYS A						
Z20K1	E2	28	MESC LOGIC	E2	28	E6 17 R8 19
Z20K2	E2	28	MESC LOGIC	E2	28	E6 16 R8 19
Z21K1	E5	29	MESC PYRO ARM	E5	29	E6 15 R7 9
Z21K2	E5	29	MESC PYRO ARM	E5	29	E6 15 R7 9
Z23K1	E2	45	PYRO CUTOUT	E2	7	E2 12 E5 21 E5 20
Z23K2	E2	45	PYRO CUTOUT	E2	7	E2 12 E5 20
Z24K1	E2	4	PCM MOTORS FIRE	E5	19	E6 6
Z24K2	E2	4	PCM MOTORS FIRE	E5	19	E6 6
C18A2 MASTER EVENT SEQUENCER CONTROLLER SYS B						
Z1K1	E2	18	EDS ABORT 2	E3	22	E6 6
Z1K2	E2	18	EDS ABORT 1	E3	22	E6 6
Z2K1	E2	18	EDS ABORT 3	E3	22	E6 6
Z2K2	E3	23	EDS BUS CHANGEDOVER	E3	23	E6 10
Z3K1	E3	4	E/T SEPARATE	E3	16	E3 23 E6 6
Z3K2	E3	4	E/T SEPARATE	E3	16	E3 23 E6 6
Z4K1	E3	19	AUTO ABORT ENABLE	E3	22	E6 10
Z4K2	E3	19	AUTO ABORT ENABLE	E3	22	E6 10
Z5K1	E3	18	BOOSTER CUTOFF	E2	18	E3 18 E6 8

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	DWG ZONE	CONTACT LOCATION		DWG ZONE	REV			
	DWG ZONE				DWG ZONE	DWG ZONE					
C18A2 MASTER EVENT SEQUENCER CONTROLLER SYS B											
Z5K2	E3	18	BOOSTER CUTOFF	E2	18	E3	18	E6	7		
Z6K1	E3	15	LES ABORT	E3	15	E3	16	E6	9		
Z6K2	E3	15	LES ABORT	E3	15	E3	16	E6	8		
Z7K1	E3	10	CM RCS PRESSURE	E5	11	E6	11				
Z7K2	E3	10	CM RCS PRESSURE	E5	11	E6	11				
Z8K1	E3	11	CM/SM DEADFACE	E3	11	E5	9	E5	10	E6	11
Z8K2	E3	11	CM/SM DEADFACE	E3	11	E5	9	E5	10	E6	10
Z9K1	E3	8	CM/SM SEPARATE	E3	8	E5	8	E5	9	E6	10
Z9K2	E3	8	CM/SM SEPARATE	E3	8	E5	8	E5	9	E6	9
Z10K1	E3	7	LES MTR FIRE	E5	7	E6	9				
Z10K2	E3	7	LES MTR FIRE	E5	7	E6	9				
Z11K1	E3	11	CANARD DEPLOY	E3	11	E5	6	E6	8		
Z11K2	E3	11	CANARD DEPLOY	E3	11	E5	6	E6	8		
Z12K1	E4	19	ELS ACTIVATE	E4	19	E4	24				
Z12K2	E4	19	ELS ACTIVATE	E4	19	E4	24				
Z13K1	E3	4	E/T JETT FIRE-TWR BOLTS	E5	4	E5	5	E6	5		
Z13K2	E3	4	E/T JETT FIRE-TWR BOLTS	E5	4	E5	5	E6	5		
Z14K1	E4	20	APEX COVER JETT	E3	6	E5	3	E6	7		

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION		REV
	DWG	ZONE	DWG	ZONE	DWG	ZONE
C18A2 MASTER EVENT SEQUENCER CONTROLLER SYS B						
Z14K2	F4	20	APEX COVER JETT	E3	6	E5 3 E6 7
Z16K1	E3	13	ULLAGE	E6	5	R8 21
Z16K2	E3	13	ULLAGE	E6	5	R8 21
Z17K1	F3	11	ADAPTER SEP	E3	11	E5 3 E6 7
Z17K2	E3	11	ADAPTER SEP	E3	11	E5 3 E6 6
Z18K1	E3	9	DSIF ANT.	E3	9	E5 3 E6 5
Z18K2	E3	9	DSIF ANT.	E3	9	E5 3 E6 5
Z19K1	E3	3	RCS ENABLE (L)	E6	7	
Z19K1	E3	5	RCS ENABLE SAFE (UL)	E6	7	H4 22 H5 23
Z19K2	E3	3	RCS ENABLE (L)	E6	7	
Z19K2	E3	5	RCS ENABLE SAFE (UL)	E6	7	H4 22 H5 23
Z20K1	E3	23	MESC LOGIC	E3	23	E6 15 E6 16 R8 22
Z20K2	E3	23	MESC LOGIC	E3	23	E6 15 E6 16 R8 21
Z21K1	E5	29	MESC PYRO ARM	E5	29	E6 17 R7A 33
Z21K2	E5	29	MESC PYRO ARM	E5	29	E6 17 R7A 33
Z23K1	F3	6	PYRO CUTOUT	E3	15	E3 12 E5 8 E5 7
Z23K2	F3	6	PYRO CUTOUT	E3	15	E3 12 E5 7
Z24K1	F3	4	PCM MOTORS FIRE	E5	6	E6 6

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	DWG ZONE	CONTACT LOCATION				REV
	DWG	ZONE			DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
C18A2 MASTER EVENT SEQUENCER CONTROLLER SYS B									
Z24K2	E3	4	PCM MOTORS FIRE	E5	6	E6	6		
C19A1 RCS CONTROL BOX									
K1	R7	12	CM PROPELLANT JET LOGIC	E2	6	R7	14	R7 15	
K3	E2	6		C10	7	R7	13		
K4	E2	6		R2	15 14	R7	7	R7	14 13
K5	E2	6		R2	15	R7	8	R7	14 13
K6	R7	12	INTERCONNECT	R7	7	R7	15 12		
K7	R7	12	INTERCONNECT	R7	8	R7	15 12		
K8	R7	14	CM PROPELLANT JETT PURGE	R7	7	R7	12		
K9	R7	14	CM PROPELLANT JETT PURGE	R7	8	R7	14 11		
K10	R7	13	CM PROPELLANT JETT LOGIC	R7	14	R7	15		
K11	R7	13	CM PROPELLANT JETT LOGIC	R7	14				
K12	R7	13	10 SEC TIMER	R7	8	R7	14		
K13	R7	13	10 SEC TIMER	R7	8	R7	14		
S1	R7	12	RCS TRANSFER	R10	21	R9	14	R10	5
				R7	11	R7 15		R10	16
				R11	18	R8	12	H6	5
				H2	27	H5	5	H4	6

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION				REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	

C19A2 RCS CONTROL BOX

K1	R7A 27	CM PROP JETT LOGIC	F3 6	R7A 36 R7A 39		
K3	F3 6		C10 7	R7A 37		
K4	E3 6		R2 14	R7A 32	R7A 37	
K5	E3 6		R2 14 15	R7A 32	R7A 37	
K6	R7A 36	INTERCONNECT	R7A 32	R7A 36		
K7	R7A 36	INTERCONNECT	R7A 32	R7A 36		
K8	R7A 38	CM PROPELLANT JETT PURGE	R7A 32	R7A 36		
K9	R7A 37	CM PROPELLANT JETT PURGE	R7A 32	R7A 35		
K10	R7A 37	CM PROPELLANT JETT LOGIC	R7A 37	R7A 39		
K11	R7A 37	CM PROPELLANT JETT LOGIC	R7A 37	R7A 38		
K12	R7A 37	18 SEC TIMER	R7A 32	R7A 37	R7A 38	
K13	R7A 37	18 SEC TIMER	R7A 32	R7A 37		
S1	R7A 36	RCS TRANSFER	R10 21	R9 14 15	R10 5	R10 10
			R8 12	R11 15	R11 18	R10 16
			R7A 35	R7A 39	H6 5	H4 6
			H2 27	H5 5		

C20A1 EARTH LANDING SEQUENCE CONT

K1	E4 16	25000 FT LOCK UP	E4 16	E4 17	E6 17
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DEVICE	LOCATION		CIRCUIT COMPONENT	LOCATION		CONTACT LOCATION			REV		
	DWG	ZONE		DWG	ZONE	DWG	ZONE	DWG		ZONE	
C20A1 EARTH LANDING SEQUENCE CONT											
K2	E4	14	DROGUE IGNITER	E5	14	E5	15	E5	28	E6	17
K3	E4	11	CHUTE DEPLOY / DROGUE REL	E5	13	E 15 14		E5	27	E6	17
K4	E4	11	MAIN CHUTE DISCONNECT	E5	25	E6	17				
S1	F4	17	25000 FT BARO SW	E4	17						
S2	E4	17	25000 FT BARO SW	E4	17						
S3	E4	14	15000 FT BARO SW	E4	14						
S4	E4	14	15000 FT BARO SW	E4	14						
TD1	E4	16		E4	16						
TD2	E4	15	DROGUE IGNITE DELAY	E4	15						
TD3	E4	14		E4	14						
TD4	E4	14		E4	14						
C20A2 EARTH LANDING SEQUENCE CONT											
K1	E4	16	25000 FT LOCK UP	E4	16	E4	17	E6	17		
K2	E4	14	DROGUE IGNITER	E5	15	E5	27	E5	28	E6	17
K3	E4	11	CHUTE DEPLOY / DROGUE REL	E5	13	E5	26	E5	27	E6	17
K4	E4	11	MAIN CHUTE DISCONNECT	E5	12	E6	17				
S1	E4	17	25000 FT BARO SW	E4	17						
S2	E4	17	25000 FT BARO SW	E4	17						

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION				REV
	DWG	ZONE		DWG	ZONE	DWG	ZONE	
C20A2 EARTH LANDING SEQUENCE CONT								
S3	E4	13	15000 FT BARO SW	E4	13			
S4	E4	13	15000 FT BARO SW	E4	13			
TD1	E4	16		E4	16			
TD2	E4	15		E4	15			
TD3	E4	14		E4	14			
TD4	F4	14		E4	14			
C20A4 PYRO CONTINUITY VERIFICATION BOX								
Z1K1	E4	21	DROGUE CHUTES DEPLOY	E4 5 11 13	E5 15	E6 16		
Z1K2	E4	21	MAIN CHUTES INITIATE	E4 4 11 21	E6 16			
Z1K3	E4	11	MAIN CHUTE DISCONNECT	E5 12	E6 16			
Z1K4	E4	21	MAIN CHUTES DEPLOY	E5 13	E6 16			
Z2K1	E4	21	DROGUE CHUTES DEPLOY	E4 5 11 26	E5 28	E6 16		
Z2K2	E4	21	MAIN CHUTES INITIATE	E4 4 11 21	E6 16			
Z2K3	E4	11	MAIN CHUTE DISCONNECT	E5 25	E6 16			
Z2K4	E4	21	MAIN CHUTE DEPLOY	E5 26	E6 16			
C22-2A57 EMERGENCY DETENTION/DRIVE CONTRL PNL3								
S9		L/VAOA		M9 8	P2 2			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		
C22-2A58 MISSION SEQUENCE CONTROL PNL 24							
S1	EDS POWER		T12 7	E2 26			
C22-2A59 COMMANDERS AUDIO CONTROL PNL 26							
S1	S BAND		T20 26	T21 8			
S2	HF		T23 20	T24 8	T23 16		
S3	VHF/AM		T18 21	T18 16	T19 7		
S4	INTERCOM		T17 14				
S5	POWER		T17 14	T17 20			
MS5 A2	VOICE		T2 18				
C22-2A62 NAVIGATOR AUDIO CONTROL PNL 13							
S1	S BAND		T20 26	T21 8	T11 17		
S2	HF		T23 20	T24 8	T11 17	T23 16	
S3	VHF/AM		T18 21	T18 16	T19 6	T11 17	
S4	INTERCOM		T17 14	T11 17			
S5	POWER		T17 14	T11 17	T17 20		
MS5 A1	VOICE		T2 18				
C22-2A68 COMMUNICATIONS AND SPS PNL 20							
S1	S BAND XPONDER		T2 11	T12 19	T20 12	T11 10	T6 9
S4	S BAND EMERGENCY		T21 20	T15 5			
			T20 21	T6 21	T11 14	T6 22	T6 15

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION DWG ZONE	FUNCTION	DWG ZONE	CONTACT DWG ZONE	LOCATION DWG ZONE	DWG ZONE	REV
C22-2A68 COMMUNICATIONS AND SPS PNL 20							
S4A		KEY	T2 11				
S7		S BAND VOICE	T19 16 T15 10	T6 16 T14 14	T11 14 T5 7	T6 19 T5 5	T15 14
S8		UP DATA	T2 11	T12 13			
S10		RECOVERY HF	T23 14	T24 21			
S10A		RECOVERY HF	T2 11				
S10B		RECOVERY HF	T2 3				
S11		RECOVERY VHF-BCN	T2 11	T4 15			
S13A		PULSE	T2 11				
S14		VHF/AM	T19 17	T2 11	T18 15		
S15		VHF-AM RCVR	T19 14				
S16A		TAPE RECORD PLAY	T2 11				
S17		TAPE RECORD REV	T2 11	T13 22	T11 13	T10 8	
S22		POWER SCE	T2 11	M2 28	T9 11		
S23		POWER PMP	T20 21	T2 11	T6 9	T13 23	T6 22
S32		S BAND ANTENNA	T21 20 T11 8	T20 12 T2 11	T12 19 T5 3	T15 5 T6 3	T14 8 T6 9
S35		VHF ANTENNA	T22 8 T13 4	T18 7 T2 11	T12 18 T11 12	T19 21 T10 1	T14 10 T5 3

~~C22-2A69 ANTENNA CONTROL SYSTEM PNL 19~~~~S11~~ ~~FLT QUAL RECORD~~ ~~T16 5~~

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION		REV
	DWG ZONE			DWG ZONE	DWG ZONE	

~~C22-2A69 ANTENNA CONTROL SYSTEM PNL 19~~

S12	UP TLM CMD	T12 7	T12 4
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C22-2A71 ENGINEERS AUDIO CONTROL PNL 23

S1	S BAND	T20 26	T21 8
S2	HF	T23 20	T24 8 <i>T23 16</i>
S3	VHF/AM	T18 21	T18 16 T19 20 6
S4	INTERCOM	T17 14	
S5	POWER	T17 14	<i>T17 20</i>
S5 <i>A3</i>	VOICE	T2 18	

C28-1A1 PRE-MODULATION PROCESSOR

A2K1	T2 6	POWER SUPPLY
A14K1	T2 6	SPEECH CLIPPER

C28-1A4 DATA STORAGE EQUIP

K1	POWER SUPPLY ON	T3 6
K2	REEL AND CAPSTAN	T3 6
K3	FWD REV	T3 5

C28-1A5 SIG CONDITIONER

K1(L)	T2 6	T2 6	T9 10
K1(UL)	T2 6	T2 6	T9 10

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION				REV
	DWG	ZONE		DWG	ZONE	DWG	ZONE	
	C28-1A9A1	VHF-AM	XCVR					
A3K1	<i>T18 22</i>	XMTR		T19	13	T18	22 //	
	C28-1A13	VHF/FM	XMTR					
K1				T3	7			
K2				T3	7			
	C281A13A1	VHF/FM	XMTR					
K1	T2	6		T22	11			
K2	T2	6		T22	11			
	C28-1A13A2	HF	XCVR					
K3	<i>T23 22</i>			T23	12	T24	19	
A1K1	T23	22	POWER AMPL	T24	19			
A1K3	T23 22	POWER AMPL						
	C28-1A14	S BAND	PWR AMPL					
K1(L)	T20	7		T20	8	T6	5	
K1(UL)	T20	7		T20	7	T6	5	
K2(L)	T20	7		T20	7	T6	6	
K2(UL)	T20	7		T20	8	T6	6	
K3(L)	T20	8		T20	8	T6	6	<i>T3 20</i>
K3(UL)	T20	8		T20	8	T6	7	<i>T3 20</i>

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	DWG ZONE	CONTACT LOCATION		DWG ZONE	REV
	DWG	ZONE			DWG ZONE	DWG ZONE		
C28-1A14 S BAND PWR AMPL								
K3	T2	5		T2 5	T3	21		
K4(L)	T20	7		T20	8	T6	5	
K4(UL)	T20	7		T20	7	T6	5	T3 20
K4	T2	5		T2	5			
K5	T20	9	THERMAL RELAY	T20	9	T2	5	T6 7 T3 20
C28-1A43 FLT QUAL RECORD								
K1			POWER ON	T3	4			
K2			POWER ON	T3	4			
K4			FWD REV	T3	3			
POST LANDING VENT CONTROLLER								
K1	E4	7		E4	7			
C28-1A60 RELAY BOX								
K1			UDL ABORT REQUEST A	E3	21			
K1			UDL ABORT REQ A	T12	6			
K2			UDL ABORT REQUEST B	E3	21			
K2			UDL ABORT REQ B	T12	6			
C29-1A19 ROLL ECA								
A13K1	H3A	39	RJC ATTITUDE SWITCHING	H5	16			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION				REV
	DWG	ZONE		DWG	ZONE	DWG	ZONE	
C29-1A19 ROLL ECA								
A13K2	H3A	39	AUTO CONTROL INTERRUPT	H5	20			
A13K3	H3A	39	G AND N SYNC					
A15K1	H3A	39	G AND N MIN IMPULSE	H5	14			
A15K2	H3A	39	PSEUDO RATE CUTOFF	H5	14			
A21K1	H3A	39	ENTRY GAIN	H5	17			
A21K2	H3A	39	ENTRY GAIN	H5	17			
A21K3	H3A	39	DEAD BAND CHANGE	H5	17			
A24K1	H3A	39	B/U RATE TRANS	H2	11			
A24K2	H3A	39	ENTRY GAIN	H5	20	H5	19	
A26K1	H3A	39	RATE INPUT TRANSFER	H5	20			
A26K2	H3A	39	G AND N ATTITUDE INPUT	H5	19			
A26K3	H3A	39	AGAD ^A ATTITUDE INPUT	H5	19			
C29-1A22 DISPLAY AGAD ^A ECA								
A5K1	H3	9	WARMUP	H2	16			
A5K2	H3	9	WARMUP	H2	16	H3	14	
A5K3	H3	9	OUTBAND	H3	9			
A8K1	H3	15	AGCU CAGE 1	H7	15	H2	16	
A8K2	H3	15	AGCU CAGE 1	H7	15			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	LOCATION		CONTACT LOCATION			REV
	DWG	ZONE		DWG	ZONE	DWG	ZONE	DWG	
C29-1A22 DISPLAY AGAP ECA									
A8K3	H3	15	AGCU CAGE 1	H2	16	H2	15 15		
A8K4	H3	15	AGCU CAGE 1	H7	15	H7	12		
A8K5	H3	15	AGCU CAGE 1	H7	12				
A8K6	H3	15	AGCU ALIGN	H3	17	H7	27		
A8K7	H3	15	AGCU ALIGN	H7	27				
A8K8	H3	15	ENTRY	H7	27	H8	19		
A9K1	H3	15	ROLL BACKUP RATE	H7	12				
A9K2	H3	15	ROLL BACKUP RATE	H7	28	H5	23		
A9K3	H3	19	MTV RATE OUT	H3	15				
A11K1	H3	15	YAW BACKUP RATE	H7	12				
A11K2	H3	15	YAW BACKUP RATE	H7	28	H6	20		
A11K3	H3	19	MTV RATE OUT	H3	15	H6	20	H7	27
A13K1	H3	15	PITCH BACKUP RATE	H7	12				
A13K2	H3	15	PITCH BACKUP RATE	H7	28	H4	20		
A13K3	H3	19	MTV RATE OUT	H3	15	H7	27	H4	20
16A3K1	H3A	34	28VAC PWR ROLL ATT SCALE <i>FACTOR</i>	H7	8				
A16A3K3	H3A	34	G AND N ROLL ATTITUDE COS						
16A3K4	H3A	34	SCS ROLL ATTITUDE COS	H7	10				

DEVICE	LOCATION		CIRCUIT COMPONENT LOCATION		CONTACT LOCATION				REV
	DWG	ZONE	FUNCTION	DWG	ZONE	DWG	ZONE	DWG	ZONE
C29-1A22 DISPLAY AGAP ECA									
A16A3K5	H3A 34		G AND N ROLL ATTITUDE SIN						
16A3K6	H3A	33	SCS ROLL ATTITUDE SIN	H7	10				
17A3K1	H3A	33	28VAC PWR/PITCH ATT SF	H7	7	H2	16		
A17A3K2	H3A	33	ROLL ATT ST/PITCH ATT						
A17A3K3	H3A	33	G AND N PITCH ATT COS						
17A3K4	H3A	33	SCS ^{GEN} PITCH ATTITUDE COS	H7	10				
A17A3K5	H3A	32	G AND N PITCH ATT SIN						
17A3K6	H3A	32	SCS PITCH ATTITUDE SIN	H7	10				
A18A3K1	H3A	32	28VAC PWR/YAW ATT SF SIN	H2	16	H7	7		
A18A3K2	H3A	33	1VAC ST/YAW ATT ST	H2	16				
A18A3K3	H3A	32	G AND N YAW ATTITUDE COS						
18A3K4	H3A	32	SCS ^{GEN} YAW ATTITUDE COS	H7	10				
A18A3K5	H3A	32	G AND N YAW ATTITUDE SIN						
18A3K6	H3A	32	SCS YAW ATTITUDE SIN	H7	10				
19A2K1	H3A	33	ROLL ERROR SF	H7	3				
19A2K2	H3	15	TEMPORARY HOLD	H3A	34				
19A2K3	H3A	33	GIMBAL POS AMPL DEMOD PWR	H2	16				
19A2K4	H3A	33	ATTITUDE MOT EXCITATION	H2	16				

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION		REV
	DWG	ZONE	DWG	ZONE	DWG	ZONE
C29-1A22 DISPLAY AGAP ECA						
A19A2K5	H3A	33	ATT VEL GEN/AMPL DEMOD	H2	16	
19A2K6	H3A	32	ATTITUDE POWER	H2	16	H2 19
A19A3K2	H3	35	TEMP HOLD	H2	16	
A20A3K1	H3A	33	GEN PITCH ERR SCALE FACTOR	H7	4	
20A3K2	H3A	33	YAW/PITCH G AND N OFFSET GEN YAW ERR STAB	H7	4	
20A3K3	H3A	33	P ERROR G AND N	H7	4	
20A3K4	H3A	33	P ERROR AGA 0 A	H7	4	
20A3K5	H3A	33	P BACKUP RATE	H7	4	H7 4
20A3K6	H9 H3A 34 7		P RATE ECA THRUST ON	H7		H9 7
A21A3K1	H3A	33	GEN YAW ERR SCALE FACTOR	H7	4	
21A3K2	H3A	32	AGCU P/YAW ERROR	H7	4	
21A3K3	H3A	34	YAW ERROR G AND N BODY	H7	4	
21A3K4	H3A	32	YAW ERROR AGA 0 A	H7	4	
21A3K5	H3A	33	0 YAW BACKUP RATE	H7	4	
21A3K6	H9 H3A 34 29		YAW RATE DELTA V INHIBIT	H9 0 19		
22A3K1	H3A	33	YAW/P RATE SCALE FACTOR	H7	4	H6 3
22A3K2	H3A	32	ROLL ERROR AGCU	H7	4	
A22A3K3	H3A	34	ROLL ERROR/AGCU INHIBIT	H3A	33	H6 4
A22A3K4	H3A	32	ROLL ERROR/AGCU INHIBIT	H3A	33	H6 4 H3A 35
22A3K5	H3A	33	ROLL ERROR AGA 0 A	H7	4	

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION				REV
	DWG	ZONE		DWG	ZONE	DWG	ZONE	
C29-1A22 DISPLAY AGAP ECA								
			<i>FDAI SELF TEST</i>					
22A3K6	H3A	34	G AND ERROR INHIBIT	H3A	35	H7 3	H2	16
22A5K1			WARM UP	H2	16			
22A5K2			WARM UP	H2	16			
22A8K1			AGCU CAGE	H2	15			
22A8K3			AGCU CAGE	H2	15			
A23A2K1	H3A	33	RATE GYRO PWR <i>ROLL RATE REF</i>	H2	16			
23A2K2			AGAP/SCS PWR	H2 16	H3A 34	H7 4		
A23A2K3	H3A	33	AGAP PWR <i>PITCH RATE REF</i>	H2	16			
A23A3K1	H3A	33	AGAP/RATE GYRO PWR <i>YAW RATE REF</i>	H2	16			
A23A3K2	H3A	33	ROLL TO YAW COUPLING	H7	4			
A23A3K3	H3A	33	ROLL RATE SCALE FACTOR	H7	4			
23A3K4	H3A	33	ROLL BACKUP RATE	H7	4			
23A3K5	H3A	34	ROLL RATE GEN ERR INHIBIT	H7 4	H3A	33		
³ 20 A3K6	<i>H3A</i>	<i>33</i>	DELTA MOT DRIVE <i>FDAI SELF TEST</i>	H7 3	H7	3	H2	16
A24A1K1	H3A	32	GPX EXC					
A24A1K2	H3A	32	AV ST					
A24A3K6			DELTA MOT DRIVE	H8	16			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION DWG ZONE	FUNCTION	DWG ZONE	CONTACT DWG ZONE	LOCATION DWG ZONE	DWG ZONE	REV
C29-1A23 YAW ECA							
A11K1	H3A 44	RJC ATT SWITCHING	H4 12	H6	14		
A11K2	H3A 43	ROLL-YAW RATE COUPLING	H4 16	H6	17		
A11K3	H3A 43	AUTO CONTROL INTERRUPT	H4 14	H6	18		
A13K1	H3A 44	G AND N MIN IMPULSE ENABLE	H4 11	H6	13		
A13K2	H3A 43	PSEUDO RATE CUTOUT	H4 10	H6	13		
A14K1	H3A 43	SVO NO.1 ENGAGE	H8	16			
A14K1		FDAI ALIGN	H7	26			
A14K2		FDAI ALIGN	H7	26			
A14K3		ORBIT RATE	H7 22				
A15K1	H3A 44	ENTRY GAIN	H4 13	H6	15		
A15K2	H3A 43	ENTRY GAIN	H4 12	H6	14		
A15K3	H3A 43	DB CHANGE	H4 13	H6	14		
A17K1	H3A 44	R/U RATE REF TRANS					
A17K2	H3A 44	ENTRY GAIN	H6	17	H6	18	H2 4
A18K1	H3A 44	SVO NO.2 ENGAGE	H8	16			
A18K2	H3A 44	MTVC ENGAGE	H8	17	H8 15		
A19K1	H3A 43	RATE IN TRANS	H4 17	H6	18		
A19K2	H3A 43	ENTRY GAIN GEN ATT IN	H4 16	H6	17		
A19K3	H3A 43	AGAP ATT IN	H4 16	H6	17		

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	CONTACT LOCATION				REV
	DWG ZONE		DWG ZONE	DWG ZONE	DWG ZONE		
C29-1A23 YAW FCA							
A20K3	H3A 44	SYS GRD CHECK					
A21K1	H3A 44	SCS DELTA V MODE	H3A 44	H8	18		
A21K2	H3A 44	ENGINE IGNITION	H8 20				
A21K3	H3A 44	SYS GRD CHECK	H8 20	H8	20		
A25K1	H3A 43	TVC ELECT TRANS	H4 17	H8	4		
A27K1	H3A 43	ENG IGN	H8 18	H6	17		
A27K2		ENG GAIN	H4 16				
C29-1A24 AUX ECA							
24A1K1		STEP MOT INTERLOCK	H2 13				
C29-1A25 PITCH ECA							
A11K1	H3A 48	RJC ATT SWITCHING	H4 14	H4 13			
A11K3	H3A 48	AUTO CONTROL INTERRUPT	H4 18				
A13K1	H3A 48	G AND N MIN IMPULSE ENABLE	H4 13				
A13K2	H3A 48	PSUEDO RATE CUTOFF	H4 13				
A14K1	H3A 48	SVO NO.1 ENGAGE	H8	X 16			
A15K1	H3A 48	ENTRY GAIN	H4 14	H4	15		
A15K2	H3A 48	ENTRY GAIN	H4 14				
A15K3	H3A 48	DB CHANGE	H4 15				
A17K1	H3A 48	B/U RATE REF TRANS	H2 8				

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION				REV
	DWG	ZONE		DWG	ZONE	DWG	ZONE	
C29-1A25 PITCH ECA								
A17K2	H3A	48	ENTRY GAIN	H4	17			
A18K1	H3A	48	SVO NO.2 ENGAGE	H8	18 16			
A18K2	H3A	48	MTVC ENGAGE	H8	18 17			
A19K1	H3A	48	RATE TRANSFER	H4	18 H4 16			
A19K2	H3A	48	G AND N ATT IN	H4	16			
A19K3	H3A	48	AGAO ^A ATT IN	H4	17			
A21K1	H3A	48	SCS DELTA V MODE	H8	4	H3A	48	
A21K2	H3A	48	ENG IGNITION	H3A 48		H8	19	
A21K3	H3A	48	SYS GRD CHECK	H8 19				
A25K1	H3A	48	TVC ELECT TRANS	H8	4			
A27K1	H3A	48	ENG IGNITION	H8	18 H4 16	H4	17	
A27K3			ENG IGNITION	H4	16			
S14A1 POWER DISTRIBUTION BOX								
K1	H9	5	SPS GAUGING CONT	P3	4	P3	5	
K2	H9	5	SPS GAUGING CONT	P3	4	P3	5	
S1	P1	7	PRI PITCH OVERCURRENT REL	P1	7			
S2	P1	7	AUX PITCH OVERCURRENT REL	P1	7			
S3	P1	7	PRI YAW OVERCURRENT REL	P1	7			

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION		FUNCTION	CONTACT LOCATION				REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE	DWG ZONE	
S14A1			POWER DISTRIBUTION BOX					
S4	P1	7	AUX YAW OVERCURRENT REL	P1	7			
S5	C3	12	FUEL CELL 3-SYS A AUTO	C3	12			
S6	C3	12	FUEL CELL 2-SYS B AUTO	C3	12			
S7	C3	12	FUEL CELL 1-SYS A AUTO	C3	12			
S8	C3	12	FUEL CELL 3-SYS B AUTO	C3	12			
S9	C3	12	FUEL CELL 2-SYS A AUTO	C3	12			
S10	C3	12	FUEL CELL 1-SYS B AUTO	C3	12			
S11	C3	12	GRD PWR DISC	C3	12			
S14A4 FUEL CELL SWITCH PANEL								
S1			FC 1 REMOTE CONT	C11	10			
S2			FC 2 REMOTE CONT	C12	10			
S3			FC 3 REMOTE CONT	C13	10			
S4			IN LINE HEATER CONT	C11	4	F8 4	F9 4	
S19A7 RCS SEQUENCER								
Z1K1	E2	12	SM SEQ START ARM (L)	E6	17			
Z1K1	E2	12	SM SEQ START SAFE (UL)	R9	9	R8	6	
Z1K2	E2	12	SM SEQ START ARM (L)	E6	16			
Z1K2	E2	12	SM SEQ START SAFE (UL)	R9	9	R8	6	

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION DWG ZONE	FUNCTION	DWG ZONE	CONTACT DWG ZONE	LOCATION DWG ZONE	DWG ZONE	REV
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S19A7 RCS SEQUENCER

Z2K1	R9 8	ROLL SOLENOID INITIATE	E6 16	R9 8	R9 9		
Z2K2	R9 8	ROLL SOLENOID INITIATE	E6 16	R9 8			
Z3K1	R9 7	ROLL SOLENOID DEACTIVATE	E6 15	R9 7			
Z3K2	R9 6	ROLL SOLENOID DEACTIVATE	E6 15	R9 6	R9 7		

S19A8 RCS SEQUENCER

Z1K1	E3 12	SM SEQ START ARM (L)	E6 17				
Z1K1	E3 12	SM SEQ START SAFE (UL)	R9 9	R8 6			
Z1K2	E3 12	SM SEQ START ARM (L)	F6 16				
Z1K2	E3 12	SM SEQ START SAFE (UL)	R9 9	R8 6			
Z2K1	R9 8	ROLL SOLENOID INITIATE	E6 16	R9 8	R9 9		
Z2K2	R9 8	ROLL SOLENOID INITIATE	E6 16	R9 8			
Z3K1	R9 7	ROLL SOLENOID DEACTIVATE	E6 15	R9 7			
Z3K2	R9 6	ROLL SOLENOID DEACTIVATE	E6 15	R9 6	R9 7		

~~S31A3 SUMMING LOGIC ASSY~~

K1	H9 2	FLT COMB LOGIC CONT	H9 2				
K2	H9 2	FLT COMB LOGIC CONT	H9 2				
K3	H9 2	FLT COMB LOGIC CONT	H9 2				

CIRCUIT COMPONENT LOCATION

DEVICE	LOCATION	FUNCTION	DWG ZONE	CONTACT LOCATION			REV
	DWG ZONE			DWG ZONE	DWG ZONE	DWG ZONE	
	S48A9 CRYOGENIC CONTROL BOX						
S1	F5 16			F5 17			
S2	F6 16			F6 17			

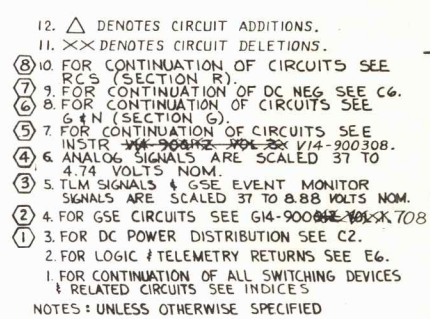
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CIRCUITS SEE
DC NEG SEE C6.
CIRCUITS SEE
OF CIRCUITS SEE
V14-900308.
ARE SCALED 37 TO
M.
SE EVENT MONITOR
LALED 37 TO 8.88 VOLTS NOM. B
ITS SEE G14-900042-708
ER DISTRIBUTION SEE C2.
#TELEMETRY RETURNS SEE E6.
NUATION OF ALL SWITCHING DEVICES
D CIRCUITS SEE INDICES
UNLESS OTHERWISE SPECIFIED

DR BY	JIM ELLIS	6-26-66	NORTH AMERICAN AVIATION, INC. OFFICE and INFORMATION SYSTEMS DIVISION 1881A LAKEWOOD BLVD., DOWNEY, CALIFORNIA	
CHK BY	697-406	3861-2		
APPROVED BY			SECS - LAUNCH ESCAPE SYSTEM A	
STEVENSON	<i>[Signature]</i>	6-30-65		
MATTSON	<i>[Signature]</i>	6-30-65		
CODE IDENT NO			03953	SHEET 1.25
SCALE			J	V14-900208
SC 008			DOMNEY & M.S.C.	

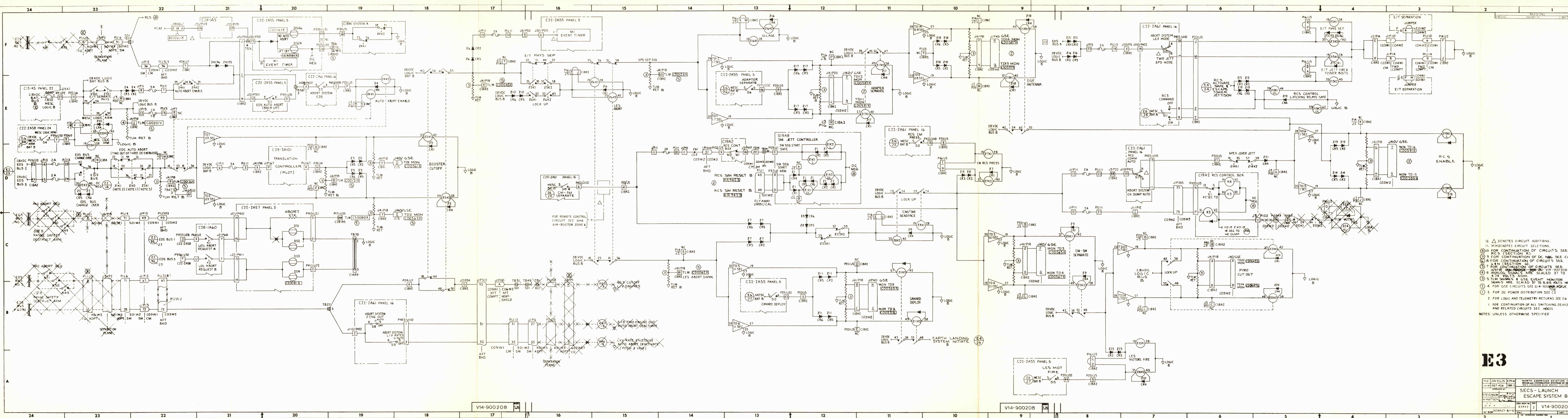
E2

V14-900208
V14-900208
V14-900208

(M) 4f



DR BY	JIM ELLIS	6-28-66	NORTH AMERICAN AVIATION, INC. SPACE AND INFORMATION SYSTEMS DIVISION 1000 UNIVERSITY BLVD., BOWEN, CALIFORNIA	
CHK BY	697-406	380-2		
APPROVED BY			SECS -	
STEVENSON			LAUNCH ESCAPE	
MATTSON			SYSTEM A	
bld. 4246			CODE IDENT NO	SER
			03953	V14-90020
SC00B & MSC			SCALE	SHEET 1/2
LWS INFORMATION SYSTEMS DIV				



12. Δ DENOTES CIRCUIT ADDITIONS.
11. ✕ DENOTES CIRCUIT DELETIONS.
⑩ FOR CONTINUATION OF CIRCUITS SEE C2 (SECTION 2).
⑨ FOR CONTINUATION OF CIRCUITS SEE C3 (SECTION 3).
⑧ FOR CONTINUATION OF CIRCUITS SEE C4 (SECTION 4).
⑦ FOR CONTINUATION OF CIRCUITS SEE C5 (SECTION 5).
⑥ ANALOG SIGNALS ARE SCALED 31 TO 14 VOLTS NOM.
⑤ 5 TLM SIGNALS & GSE EVENT MONITOR SIGNALS ARE SCALED 31 TO 8.8 VOLTS NOM.
④ FOR GSE CIRCUITS SEE 614-900708 PDR.
③ FOR DC POWER DISTRIBUTION SEE C2.
② FOR LOGIC AND TELEMETRY RETURNS SEE E6.
① FOR CONTINUATION OF ALL SWITCHING DEVICES AND RELATED CIRCUITS SEE INDEX.
- NOTES: UNLESS OTHERWISE SPECIFIED

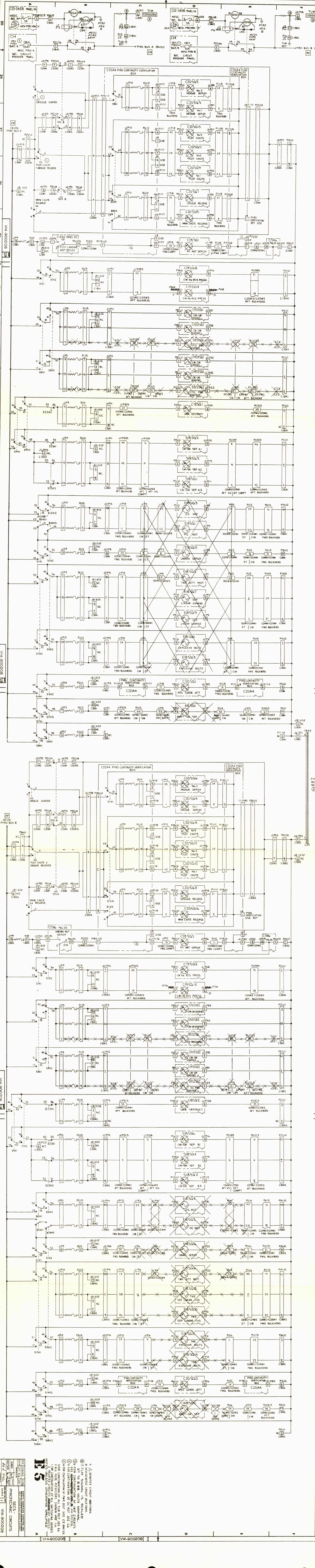
E3

APPROVED BY	DATE	REVISIONS
JIM ELLIS	4/29/84	1
STEVENSON	4/29/84	2
MATTHEWS	4/29/84	3
SCOTT	4/29/84	4
DOWNNEY	4/29/84	5

03953 J V14-900208

2





LEGEND

1. 7-TLM SIGNAL IS SO CALLED
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3. 3-TLM SIGNAL IS SO CALLED
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