

ADB P1

ConnType	D 50P
PartNo	311P409-5P-B-12
Connector MIL-C No	311P409-5P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DD50908-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	- X LO PRI RTN	TWISTED W/ PIN 47		FJC P2	089	- X LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
02	+ Y UP PRI RTN	TWISTED W/ PIN 28		FJC P1	087	+ Y UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
03	+ X LO SEC RTN	TWISTED W/ PIN 31		FJC P1	093	+ X LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
04	+ Y LO PRI RTN	TWISTED W/ PIN 12		FJC P1	095	+ Y LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
05	+ X UP SEC RTN	TWISTED W/ PIN 16		FJC P1	085	+ X UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
06	+10V FRONT PANEL			N/C	N/C				
07	+5V FRONT PANEL			N/C	N/C				
08	SEP SENSE1 RTN	TWISTED W/ PIN 9		UMB J1	06-spl1	SEP LPBK1 RTN	22	TPJ	M27500/-22-SE-2-U-14
09	SEP SENSE1	TWISTED W/ PIN 8		UMB J1	05-spl1	SEP LPBK1	22	TPJ	M27500/-22-SE-2-U-14
10	+2.5V FRONT PANEL			N/C	N/C				
11	- Y LO PRI	TWISTED W/ PIN 21		FEP J1	15	- Y LO PRI IN	22	TPJ	M27500/-22-SE-2-U-14
12	+ Y LO PRI	TWISTED W/ PIN 4		FEP J1	13	+ Y LO PRI IN	22	TPJ	M27500/-22-SE-2-U-14
13	- Y UP PRI	TWISTED W/ PIN 19		FEP J1	07	- Y UP PRI IN	22	TPJ	M27500/-22-SE-2-U-14
14	- X LO SEC	TWISTED W/ PIN 20		FEP J1	29	- X LO SEC IN	22	TPJ	M27500/-22-SE-2-U-14
15	+ X UP PRI	TWISTED W/ PIN 35		FEP J1	01	+ X UP PRI IN	22	TPJ	M27500/-22-SE-2-U-14
16	+ X UP SEC	TWISTED W/ PIN 5		FEP J1	17	+ X UP SEC IN	22	TPJ	M27500/-22-SE-2-U-14
17	SPARE			N/C	N/C				
18	+ X LO PRI RTN	TWISTED W/ PIN 30		FJC P1	091	+ X LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
19	- Y UP PRI RTN	TWISTED W/ PIN 13		FJC P2	085	- Y UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
20	- X LO SEC RTN	TWISTED W/ PIN 14		FJC P2	091	- X LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
21	- Y LO PRI RTN	TWISTED W/ PIN 11		FJC P2	093	- Y LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
22	- X UP SEC RTN	TWISTED W/ PIN 48		FJC P2	083	- X UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
23	SEP SENSE TM1			PACI P1	009	DIG DIN6	24	SCJ	M27500/-24-SE-1-U-14
24	NEB1			N/C	N/C				
25	SEP SENSE2 RTN	TWISTED W/ PIN 26		UMB J1	08-spl1	SEP LPBK2 RTN	22	TPJ	M27500/-22-SE-2-U-14
26	SEP SENSE2	TWISTED W/ PIN 25		UMB J1	07-spl1	SEP LPBK2	22	TPJ	M27500/-22-SE-2-U-14
27	SEP SENSE TM2			PACI P1	011	DIG DIN7	24	SCJ	M27500/-24-SE-1-U-14
28	+ Y UP PRI	TWISTED W/ PIN 2		FEP J1	05	+ Y UP PRI IN	22	TPJ	M27500/-22-SE-2-U-14
29	- Y UP SEC	TWISTED W/ PIN 39		FEP J1	23	- Y UP SEC IN	22	TPJ	M27500/-22-SE-2-U-14
30	+ X LO PRI	TWISTED W/ PIN 18		FEP J1	09	+ X LO PRI IN	22	TPJ	M27500/-22-SE-2-U-14
31	+ X LO SEC	TWISTED W/ PIN 3		FEP J1	25	+ X LO SEC IN	22	TPJ	M27500/-22-SE-2-U-14
32	SPARE			N/C	N/C				
33	NEB1			N/C	N/C				
34	- X UP PRI RTN	TWISTED W/ PIN 49		FJC P2	081	- X UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
35	+ X UP PRI RTN	TWISTED W/ PIN 15		FJC P1	083	+ X UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
36	- Y LO SEC RTN	TWISTED W/ PIN 45		FJC P2	095	- Y LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
37	+ Y LO SEC RTN	TWISTED W/ PIN 44		FJC P1	097	+ Y LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
38	+ Y UP SEC RTN	TWISTED W/ PIN 46		FJC P1	089	+ Y UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
39	- Y UP SEC RTN	TWISTED W/ PIN 29		FJC P2	087	- Y UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
40	NEB1			N/C	N/C				
41	SEP SENSE3 RTN	TWISTED W/ PIN 42		UMB J1	10-spl1	SEP LPBK3 RTN	22	TPJ	M27500/-22-SE-2-U-14
42	SEP SENSE3	TWISTED W/ PIN 41		UMB J1	09-spl1	SEP LPBK3	22	TPJ	M27500/-22-SE-2-U-14
43	SEP SENSE TM3			PACI P1	012	DIG DIN8	24	SCJ	M27500/-24-SE-1-U-14
44	+ Y LO SEC	TWISTED W/ PIN 37		FEP J1	31	+ Y LO SEC IN	22	TPJ	M27500/-22-SE-2-U-14
45	- Y LO SEC	TWISTED W/ PIN 36		FEP J1	33	- Y LO SEC IN	22	TPJ	M27500/-22-SE-2-U-14
46	+ Y UP SEC	TWISTED W/ PIN 38		FEP J1	21	+ Y UP SEC IN	22	TPJ	M27500/-22-SE-2-U-14
47	- X LO PRI	TWISTED W/ PIN 1		FEP J1	11	- X LO PRI IN	22	TPJ	M27500/-22-SE-2-U-14
48	- X UP SEC	TWISTED W/ PIN 22		FEP J1	19	- X UP SEC IN	22	TPJ	M27500/-22-SE-2-U-14
49	- X UP PRI	TWISTED W/ PIN 34		FEP J1	03	- X UP PRI IN	22	TPJ	M27500/-22-SE-2-U-14
50	SPARE			N/C	N/C				

ADB P2

ConnType	D 37P
PartNo	311P409-4P-B-12
Connector MIL-C No	311P409-4P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DC50907-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	TQRX	TWISTED W/ PIN 2	PIN 33	TQRX P1	01	WINDING1 START	22	TPSJ	M27500/-22-SE-2-S-14
02	TQRX RTN	TWISTED W/ PIN 1	PIN 33	TQRX P1	08	WINDING1 FINISH	22	TPSJ	M27500/-22-SE-2-S-14
03	TQRY	TWISTED W/ PIN 4	PIN 28	TQRY P1	01	WINDING1 START	22	TPSJ	M27500/-22-SE-2-S-14
04	TQRY RTN	TWISTED W/ PIN 3	PIN 28	TQRY P1	08	WINDING1 FINISH	22	TPSJ	M27500/-22-SE-2-S-14
05	TQRZ PRI	TWISTED W/ PIN 6	PIN 9	TQRZ P1	01	WINDING1 START	22	TPSJ	M27500/-22-SE-2-S-14
06	TQRZ PRI RTN	TWISTED W/ PIN 5	PIN 9	TQRZ P1	08	WINDING1 FINISH	22	TPSJ	M27500/-22-SE-2-S-14
07	TQRZ SEC	TWISTED W/ PIN 8	PIN 9	TQRZ P1	03	WINDING2 START	22	TPSJ	M27500/-22-SE-2-S-14
08	TQRZ SEC RTN	TWISTED W/ PIN 7	PIN 9	TQRZ P1	06	WINDING2 FINISH	22	TPSJ	M27500/-22-SE-2-S-14
09	CHASSIS GND	SHLD RTN		N/C	N/C				
10	IDA1 A FINISH	TWISTED W/ PIN 11	PIN 14	IAD1 P1	1	PRI PHASE A + (YELLOW)	22	TPSJ	M27500/-22-SE-2-S-14
11	IDA1 A START	TWISTED W/ PIN 10	PIN 14	IAD1 P1	6	PRI PHASE A - (WHT/VIOL)	22	TPSJ	M27500/-22-SE-2-S-14
12	IDA1 B FINISH	TWISTED W/ PIN 13	PIN 14	IAD1 P1	2	PRI PHASE B + (BROWN)	22	TPSJ	M27500/-22-SE-2-S-14
13	IDA1 B START	TWISTED W/ PIN 12	PIN 14	IAD1 P1	7	PRI PHASE B - (RED/BLK)	22	TPSJ	M27500/-22-SE-2-S-14
14	CHASSIS GND	SHLD RTN		N/C	N/C				
15	IDA2 A FINISH	TWISTED W/ PIN 16	PIN 19	IAD2 P1	1	PRI PHASE A + (YELLOW)	22	TPSJ	M27500/-22-SE-2-S-14
16	IDA2 A START	TWISTED W/ PIN 15	PIN 19	IAD2 P1	6	PRI PHASE A - (WHT/VIOL)	22	TPSJ	M27500/-22-SE-2-S-14
17	IDA2 B FINISH	TWISTED W/ PIN 18	PIN 19	IAD2 P1	2	PRI PHASE B + (BROWN)	22	TPSJ	M27500/-22-SE-2-S-14
18	IDA2 B START	TWISTED W/ PIN 17	PIN 19	IAD2 P1	7	PRI PHASE B - (RED/BLK)	22	TPSJ	M27500/-22-SE-2-S-14
19	CHASSIS GND	SHLD RTN		N/C	N/C				
20	TQRX	TWISTED W/ PIN 21	PIN 33	TQRX P1	03	WINDING2 START	22	TPSJ	M27500/-22-SE-2-S-14
21	TQRX RTN	TWISTED W/ PIN 20	PIN 33	TQRX P1	06	WINDING2 FINISH	22	TPSJ	M27500/-22-SE-2-S-14
22	TQRY	TWISTED W/ PIN 23	PIN 28	TQRY P1	03	WINDING2 START	22	TPSJ	M27500/-22-SE-2-S-14
23	TQRY RTN	TWISTED W/ PIN 22	PIN 28	TQRY P1	06	WINDING2 FINISH	22	TPSJ	M27500/-22-SE-2-S-14
24	SPARE			N/C	N/C				
25	SPARE			N/C	N/C				
26	SPARE			N/C	N/C				
27	SPARE			N/C	N/C				
28	CHASSIS GND	SHLD RTN		N/C	N/C				
29	SPARE			N/C	N/C				
30	SPARE			N/C	N/C				
31	SPARE			N/C	N/C				
32	SPARE			N/C	N/C				
33	CHASSIS GND	SHLD RTN		N/C	N/C				
34	SPARE			N/C	N/C				
35	SPARE			N/C	N/C				
36	SPARE			N/C	N/C				
37	SPARE			N/C	N/C				

ADB P3

ConnType	D 37S
PartNo	311P409-4S-B-12
Connector MIL-C No	311P409-4S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DC50907-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	S/W RLSE PWR RTN	TWISTED W/ PIN 5		PCB P2	49	ADB +28V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
02	S/W RLSE PWR RTN	TWISTED W/ PIN 6		PCB P2	50	ADB +28V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
03	S/W RLSE PWR RTN	TWISTED W/ PIN 23		PCB P2	51	ADB +28V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
04	IAD2 PWR	TWISTED W/ PIN 29		PCB P2	11	IAD2 PWR	22	TPJ	M27500/-22-SE-2-U-14
05	S/W RLSE PWR	TWISTED W/ PIN 1		PCB P2	19	ADB +28V PWR	22	TPJ	M27500/-22-SE-2-U-14
06	S/W RLSE PWR	TWISTED W/ PIN 2		PCB P2	20	ADB +28V PWR	22	TPJ	M27500/-22-SE-2-U-14
07	IAD2 PWR RTN	TWISTED W/ PIN 26		PCB P2	33	IAD2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
08	IAD1 PWR	TWISTED W/ PIN 10		PCB P2	09	IAD1 PWR	22	TPJ	M27500/-22-SE-2-U-14
09	SPARE			N/C	N/C				
10	IAD1 PWR RTN	TWISTED W/ PIN 8		PCB P2	30	IAD1 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
11	+15V CPU RTN	TWISTED W/ PIN 15 & 34		SEM P2	21	+15VDC CPU RTN	22	SCJ	M27500/-22-SE-1-U-14
12	TQDR XZ PWR	TWISTED W/ PIN 21		PCB P2	41	TQDR XZ PWR	22	TPJ	M27500/-22-SE-2-U-14
13	SPARE			N/C	N/C				
14	TQDR XZ PWR	TWISTED W/ PIN 25		PCB P2	42	TQDR XZ PWR	22	TPJ	M27500/-22-SE-2-U-14
15	+15V CPU	TWISTED W/ PIN 11 & 34		SEM P2	37	+15VDC CPU	22	SCJ	M27500/-22-SE-1-U-14
16	TQDR YZ PWR	TWISTED W/ PIN 31		PCB P2	45	TQDR YZ PWR	22	TPJ	M27500/-22-SE-2-U-14
17	-15V CPU	TWISTED W/ PIN 30 & 36		SEM P2	05	-15VDC CPU	22	SCJ	M27500/-22-SE-1-U-14
18	TQDR YZ PWR	TWISTED W/ PIN 33		PCB P2	46	TQDR YZ PWR	22	TPJ	M27500/-22-SE-2-U-14
19	HCD FP1			N/C	N/C				
20	S/W RLSE PWR RTN	TWISTED W/ PIN 24		PCB P2	52	ADB +28V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
21	TQDR XZ PWR RTN	TWISTED W/ PIN 12		PCB P2	43	TQDR XZ PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
22	HCD FP2			N/C	N/C				
23	S/W RLSE PWR	TWISTED W/ PIN 3		PCB P2	21	ADB +28V PWR	22	TPJ	M27500/-22-SE-2-U-14
24	S/W RLSE PWR	TWISTED W/ PIN 20		PCB P2	40	ADB +28V PWR	22	TPJ	M27500/-22-SE-2-U-14
25	TQDR XZ PWR RTN	TWISTED W/ PIN 14		PCB P2	44	TQDR XZ PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
26	IAD2 PWR	TWISTED W/ PIN 7		PCB P2	12	IAD2 PWR	22	TPJ	M27500/-22-SE-2-U-14
27	IAD1 PWR	TWISTED W/ PIN 28		PCB P2	10	IAD1 PWR	22	TPJ	M27500/-22-SE-2-U-14
28	IAD1 PWR RTN	TWISTED W/ PIN 27		PCB P2	31	IAD1 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
29	IAD2 PWR RTN	TWISTED W/ PIN 4		PCB P2	32	IAD2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
30	-15V CPU RTN	TWISTED W/ PIN 17 & 36		SEM P2	22	-15VDC CPU RTN	22	SCJ	M27500/-22-SE-1-U-14
31	TQDR YZ PWR RTN	TWISTED W/ PIN 16		PCB P2	47	TQDR YZ PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
32	HCD FP3			N/C	N/C				
33	TQDR YZ PWR RTN	TWISTED W/ PIN 18		PCB P2	48	TQDR YZ PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
34	+15V CPU	TWISTED W/ PIN 11 & 15		SEM P2	04	+15VDC CPU	22	SCJ	M27500/-22-SE-1-U-14
35	SIGNAL RTN (GSE USE)			N/C	N/C				
36	-15V CPU	TWISTED W/ PIN 17 & 30		SEM P2	38	-15VDC CPU	22	SCJ	M27500/-22-SE-1-U-14
37	TQR ZR CURRENT		SHELL	PACI P2	097	GP ANALOG CH20	24	SCSJ	M27500/-24-SE-1-S-14

BAT P1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27484T18F32P
Connector MIL-C No	MS27484T18F32P
MIL-C Pin No	M39029/58-363
Backshell Part No	NLS-RCT-18N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
-a	N/C			N/C	N/C				
-b	BAT BUS RTN	TWISTED W/ PIN Y		CCB P2	50	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
-c	BAT BUS RTN	TWISTED W/ PIN X		CCB P2	49	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
-d	BAT BUS RTN	TWISTED W/ PIN W		CCB P2	48	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
-e	BAT BUS RTN	TWISTED W/ PIN V		CCB P2	33	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
-f	N/C			N/C	N/C				
-g	N/C			N/C	N/C				
-h	N/C			N/C	N/C				
-j	N/C			N/C	N/C				
A	N/C			N/C	N/C				
B	BAT BUS	TWISTED W/ PIN S		BFP J1	T	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
C	BAT BUS	TWISTED W/ PIN R		BFP J1	A	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
D	BAT BUS	TWISTED W/ PIN P		BFP J1	S	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
E	BAT BUS	TWISTED W/ PIN N		BFP J1	B	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
F	BAT BUS	TWISTED W/ PIN M		BFP J1	R	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
G	BAT BUS	TWISTED W/ PIN L		BFP J1	U	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
H	N/C			N/C	N/C				
J	N/C			N/C	N/C				
K	N/C			N/C	N/C				
L	BAT BUS RTN	TWISTED W/ PIN G		CCB P2	32	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
M	BAT BUS RTN	TWISTED W/ PIN F		CCB P2	31	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
N	BAT BUS RTN	TWISTED W/ PIN E		CCB P2	17	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
P	BAT BUS RTN	TWISTED W/ PIN D		CCB P2	16	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
R	BAT BUS RTN	TWISTED W/ PIN C		CCB P2	15	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
S	BAT BUS RTN	TWISTED W/ PIN B		CCB P2	14	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
T	N/C			N/C	N/C				
U	N/C			N/C	N/C				
V	BAT BUS	TWISTED W/ PIN e		BFP J1	C	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
W	BAT BUS	TWISTED W/ PIN d		BFP J1	V	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
X	BAT BUS	TWISTED W/ PIN c		BFP J1	P	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
Y	BAT BUS	TWISTED W/ PIN b		BFP J1	D	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
Z	N/C			N/C	N/C				

BAT P2

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27484T14F35S
Connector MIL-C No	MS27484T14F35S
MIL-C Pin No	M39029/57-354
Backshell Part No	NLS-RCT-14N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	BAT TRICKLE CHG A			N/C	N/C				
02	BAT TRICKLE CHG B			N/C	N/C				
03	BAT VOLT SENSE	TWISTED W/ PIN 13		CCB P3	08	BAT VOLT SENSE	24	TPJ	M27500/-24-SE-2-U-14
04	BAT 1/2 VOLT SENSE			CCB P3	11	BAT 1/2 VOLT SENSE	24	SCJ	M27500/-24-SE-1-U-14
05	BAT STRN GUAGE PWR1	TWISTED W/ PIN 34		PCB P2	15	SPARE1 PWR	22	TPJ	M27500/-22-SE-2-U-14
06	BAT STRN GUAGE PWR2	TWISTED W/ PIN 35		PCB P2	16	SPARE1 PWR	22	TPJ	M27500/-22-SE-2-U-14
07	BAT HTR PWR1	TWISTED W/ PIN 32		PCB P3	42	BAT HTR1 PWR	22	TPJ	M27500/-22-SE-2-U-14
08	BAT HTR PWR2	TWISTED W/ PIN 33		PCB P2	13	BAT HTR2 PWR	22	TPJ	M27500/-22-SE-2-U-14
09	TSTAT SENSE1			N/C	N/C				
10	TSTAT SENSE2			N/C	N/C				
11	SPARE			N/C	N/C				
12	SPARE			N/C	N/C				
13	BAT SIG RTN	TWISTED W/ PIN 3		CCB P3	12	BAT SIG RTN	24	TPJ	M27500/-24-SE-2-U-14
14	CHASSIS GND			GND	GND	STRUCTURE GND	22	SCJ	M27500/-22-SE-1-U-14
15	BAT PRESS1 HI	TWISTED W/ PIN 16		CCB P3	19	BAT PRESS1 HI	24	TPJ	M27500/-24-SE-2-U-14
16	BAT PRESS1 LO	TWISTED W/ PIN 15		CCB P3	20	BAT PRESS1 LO	24	TPJ	M27500/-24-SE-2-U-14
17	SPARE			N/C	N/C				
18	BAT PRESS2 HI	TWISTED W/ PIN 19		CCB P3	23	BAT PRESS2 HI	24	TPJ	M27500/-24-SE-2-U-14
19	BAT PRESS2 LO	TWISTED W/ PIN 18		CCB P3	24	BAT PRESS2 LO	24	TPJ	M27500/-24-SE-2-U-14
20	BAT TEMP1 HI	TWISTED W/ PIN 21	PIN 22	CCB P3	01	BAT TEMP1 HI	24	TPSJ	M27500/-24-SE-2-S-14
21	BAT TEMP1 LO	TWISTED W/ PIN 20	PIN 22	CCB P3	02	BAT TEMP1 LO	24	TPSJ	M27500/-24-SE-2-S-14
22	BAT TEMP1 SHLD	SHLD CARRY THRU		N/C	N/C				
23	BAT TEMP2 HI	TWISTED W/ PIN 24	PIN 25	CCB P3	04	BAT TEMP2 HI	24	TPSJ	M27500/-24-SE-2-S-14
24	BAT TEMP2 LO	TWISTED W/ PIN 23	PIN 25	CCB P3	05	BAT TEMP2 LO	24	TPSJ	M27500/-24-SE-2-S-14
25	BAT TEMP2 SHLD	SHLD CARRY THRU		N/C	N/C				
26	BAT TEMP3 HI	TWISTED W/ PIN 27	PIN 28	PACI P3	091	PRT EXC1	24	TPSJ	M27500/-24-SE-2-S-14
27	BAT TEMP3 LO	TWISTED W/ PIN 26	PIN 28	PACI P3	081	PRT IN1	24	TPSJ	M27500/-24-SE-2-S-14
28	BAT TEMP3 SHLD	SHLD CARRY THRU		N/C	N/C				
29	BAT TEMP4 HI	TWISTED W/ PIN 30	PIN 31	TAC J1	L	TAC BAT TEMP	24	TPSJ	M27500/-24-SE-2-S-14
30	BAT TEMP4 LO	TWISTED W/ PIN 29	PIN 31	TAC J1	-a	TAC BAT TEMP RTN	24	TPSJ	M27500/-24-SE-2-S-14
31	BAT TEMP4 SHLD	SHLD CARRY THRU		N/C	N/C				
32	BAT HTR PWR1 RTN	TWISTED W/ PIN 7		PCB P3	62	BAT HTR1 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
33	BAT HTR PWR2 RTN	TWISTED W/ PIN 8		PCB P2	34	BAT HTR2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
34	AT STRN GUAGE PWR1 RT	TWISTED W/ PIN 5		PCB P2	36	SPARE1 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
35	AT STRN GUAGE PWR2 RT	TWISTED W/ PIN 6		PCB P2	37	SPARE1 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
36	BAT TRICKLE CHG RTN A			N/C	N/C				
37	BAT TRICKLE CHG RTN B			N/C	N/C				

BFP J1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27474T18F32S
Connector MIL-C No	MS27474T18F32S
MIL-C Pin No	M39029/57-357
Backshell Part No	NLS-RCT-18N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
-a	SPARE			N/C	N/C				
-b	SPARE			N/C	N/C				
-c	SPARE			N/C	N/C				
-d	SPARE			N/C	N/C				
-e	SPARE			N/C	N/C				
-f	SPARE			N/C	N/C				
-g	SPARE			N/C	N/C				
-h	SPARE			N/C	N/C				
-j	SPARE			N/C	N/C				
A	BAT BUS	TWIST WITH PIN J		BAT P1	C	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
B	BAT BUS	TWIST WITH PIN H		BAT P1	E	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
C	BAT BUS	TWIST WITH PIN G		BAT P1	V	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
D	BAT BUS	TWIST WITH PIN F		BAT P1	Y	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
E	BAT BUS	TWIST WITH PIN V		CCB P2	34	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
F	BAT BUS	TWIST WITH PIN D		CCB P2	36	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
G	BAT BUS	TWIST WITH PIN C		CCB P2	20	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
H	BAT BUS	TWIST WITH PIN B		CCB P2	04	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
J	BAT BUS	TWIST WITH PIN A		CCB P2	02	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
K	BAT BUS	TWIST WITH PIN T		CCB P2	01	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
L	BAT BUS	TWIST WITH PIN S		CCB P2	03	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
M	BAT BUS	TWIST WITH PIN R		CCB P2	18	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
N	BAT BUS	TWIST WITH PIN P		CCB P2	35	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
P	BAT BUS	TWIST WITH PIN N		BAT P1	X	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
R	BAT BUS	TWIST WITH PIN M		BAT P1	F	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
S	BAT BUS	TWIST WITH PIN L		BAT P1	D	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
T	BAT BUS	TWIST WITH PIN K		BAT P1	B	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
U	BAT BUS	TWIST WITH PIN Y		BAT P1	G	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
V	BAT BUS	TWIST WITH PIN E		BAT P1	W	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
W	SPARE			N/C	N/C				
X	SPARE			N/C	N/C				
Y	BAT BUS	TWIST WITH PIN U		CCB P2	19	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
Z	SPARE			N/C	N/C				

BFP P1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27484T18F32P
Connector MIL-C No	MS27484T18F32P
MIL-C Pin No	M39029/58-363
Backshell Part No	340FS001M18-3N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
-a	SPARE			N/C	N/C				
-b	SPARE			N/C	N/C				
-c	SPARE			N/C	N/C				
-d	SPARE			N/C	N/C				
-e	SPARE			N/C	N/C				
-f	SPARE			N/C	N/C				
-g	SPARE			N/C	N/C				
-h	SPARE			N/C	N/C				
-j	SPARE			N/C	N/C				
A	BAT BUS	JUMPER TO PIN J		BFP P1	J	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
B	BAT BUS	JUMPER TO PIN H		BFP P1	H	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
C	BAT BUS	JUMPER TO PIN G		BFP P1	G	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
D	BAT BUS	JUMPER TO PIN F		BFP P1	F	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
E	BAT BUS	JUMPER TO PIN V		BFP P1	V	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
F	BAT BUS	JUMPER TO PIN D		BFP P1	D	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
G	BAT BUS	JUMPER TO PIN C		BFP P1	C	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
H	BAT BUS	JUMPER TO PIN B		BFP P1	B	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
J	BAT BUS	JUMPER TO PIN A		BFP P1	A	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
K	BAT BUS	JUMPER TO PIN T		BFP P1	T	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
L	BAT BUS	JUMPER TO PIN S		BFP P1	S	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
M	BAT BUS	JUMPER TO PIN R		BFP P1	R	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
N	BAT BUS	JUMPER TO PIN P		BFP P1	P	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
P	BAT BUS	JUMPER TO PIN N		BFP P1	N	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
R	BAT BUS	JUMPER TO PIN M		BFP P1	M	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
S	BAT BUS	JUMPER TO PIN L		BFP P1	L	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
T	BAT BUS	JUMPER TO PIN K		BFP P1	K	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
U	BAT BUS	JUMPER TO PIN Y		BFP P1	Y	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
V	BAT BUS	JUMPER TO PIN E		BFP P1	E	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
W	SPARE			N/C	N/C				
X	SPARE			N/C	N/C				
Y	BAT BUS	JUMPER TO PIN U		BFP P1	U	BAT BUS	20	SCJ	M27500/20-SE-1-U-14
Z	SPARE			N/C	N/C				

CCB P1

ConnType	HDD 62P
PartNo	311P407-4P-B-12
Connector MIL-C No	311P407-4P-B-12
MIL-C Pin No	G-08-P1
Backshell Part No	DC50907-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	WING1 PWR CKT 1/2 RTN	TWISTED W/ PIN 57		FJC P2	050	S/W 1 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
02	WING1 PWR CKT 1/2 RTN	TWISTED W/ PIN 58		FJC P2	051	S/W 1 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
03	WING1 PWR CKT 3/4 RTN	TWISTED W/ PIN 59		FJC P1	044	S/W 1 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
04	WING1 PWR CKT 3/4 RTN	TWISTED W/ PIN 60		FJC P1	045	S/W 1 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
05	WING2 PWR CKT 1/2 RTN	TWISTED W/ PIN 61		FJC P1	054	S/W 2 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
06	SPARE			N/C	N/C				
07	SPARE			N/C	N/C				
08	SPARE			N/C	N/C				
09	SPARE			N/C	N/C				
10	SPARE			N/C	N/C				
11	SPARE			N/C	N/C				
12	WING4 PWR CKT 3/4	TWISTED W/ PIN 46		FJC P2	064	S/W 4 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
13	WING4 PWR CKT 3/4	TWISTED W/ PIN 47		FJC P2	065	S/W 4 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
14	WING4 PWR CKT 1/2	TWISTED W/ PIN 44		FJC P2	056	S/W 4 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
15	WING4 PWR CKT 1/2	TWISTED W/ PIN 45		FJC P2	057	S/W 4 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
16	WING3 PWR CKT 3/4	TWISTED W/ PIN 27		FJC P2	072	S/W 3 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
17	WING3 PWR CKT 3/4	TWISTED W/ PIN 43		FJC P2	073	S/W 3 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
18	WING3 PWR CKT 1/2	TWISTED W/ PIN 25		FJC P1	072	S/W 3 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
19	WING3 PWR CKT 1/2	TWISTED W/ PIN 26		FJC P1	073	S/W 3 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
20	WING2 PWR CKT 3/4	TWISTED W/ PIN 23		FJC P1	061	S/W 2 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
21	WING2 PWR CKT 3/4	TWISTED W/ PIN 24		FJC P1	062	S/W 2 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
22	WING2 PWR CKT 1/2 RTN	TWISTED W/ PIN 62		FJC P1	055	S/W 2 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
23	WING2 PWR CKT 3/4 RTN	TWISTED W/ PIN 20		FJC P1	064	S/W 2 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
24	WING2 PWR CKT 3/4 RTN	TWISTED W/ PIN 21		FJC P1	065	S/W 2 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
25	WING3 PWR CKT 1/2 RTN	TWISTED W/ PIN 18		FJC P1	075	S/W 3 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
26	WING3 PWR CKT 1/2 RTN	TWISTED W/ PIN 19		FJC P1	076	S/W 3 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
27	WING3 PWR CKT 3/4 RTN	TWISTED W/ PIN 16		FJC P2	074	S/W 3 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
28	SPARE			N/C	N/C				
29	BUS CURRENT MON	TWISTED W/ PIN 30	SHELL	TAC J1	-g	BUS CURRENT MON			
30	BUS CURRENT RTN	TWISTED W/ PIN 29	SHELL	TAC J1	-h	BUS CURRENT RTN			
31	BUS VOLTAGE MON	TWISTED W/ PIN 32	SHELL	TAC J1	U	BUS VOLTAGE MON	24	TPSJ	M27500/-24-SE-2-S-14
32	BUS VOLTAGE RTN	TWISTED W/ PIN 31	SHELL	TAC J1	Z	BUS VOLTAGE RTN	24	TPSJ	M27500/-24-SE-2-S-14
33	SPARE			N/C	N/C				
34	SPARE			N/C	N/C				
35	SPARE			N/C	N/C				
36	SPARE			N/C	N/C				
37	SPARE			N/C	N/C				
38	SPARE			N/C	N/C				
39	SPARE			N/C	N/C				
40	SPARE			N/C	N/C				
41	SPARE			N/C	N/C				
42	SPARE			N/C	N/C				
43	WING3 PWR CKT 3/4 RTN	TWISTED W/ PIN 17		FJC P2	075	S/W 3 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
44	WING4 PWR CKT 1/2 RTN	TWISTED W/ PIN 14		FJC P2	058	S/W 4 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
45	WING4 PWR CKT 1/2 RTN	TWISTED W/ PIN 15		FJC P2	059	S/W 4 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
46	WING4 PWR CKT 3/4 RTN	TWISTED W/ PIN 12		FJC P2	066	S/W 4 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
47	WING4 PWR CKT 3/4 RTN	TWISTED W/ PIN 13		FJC P2	067	S/W 4 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
48	SPARE			N/C	N/C				
49	SPARE			N/C	N/C				
50	SPARE			N/C	N/C				

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51	SPARE			N/C	N/C				
52	SPARE			N/C	N/C				
53	SPARE			N/C	N/C				
54	SPARE			N/C	N/C				
55	SPARE			N/C	N/C				
56	SPARE			N/C	N/C				
57	WING1 PWR CKT 1/2	TWISTED W/ PIN 1		FJC P2	048	SW 1 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
58	WING1 PWR CKT 1/2	TWISTED W/ PIN 2		FJC P2	049	SW 1 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
59	WING1 PWR CKT 3/4	TWISTED W/ PIN 3		FJC P1	041	SW 1 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
60	WING1 PWR CKT 3/4	TWISTED W/ PIN 4		FJC P1	042	SW 1 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
61	WING2 PWR CKT 1/2	TWISTED W/ PIN 5		FJC P1	051	SW 2 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
62	WING2 PWR CKT 1/2	TWISTED W/ PIN 22		FJC P1	052	SW 2 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14

CCB P2

ConnType	D 50S
PartNo	311P409-5S-B-12
Connector MIL-C No	311P409-5S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DD50908-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	BAT BUS	TWISTED W/ PIN 14		BFP J1	K	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
02	BAT BUS	TWISTED W/ PIN 15		BFP J1	J	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
03	BAT BUS	TWISTED W/ PIN 16		BFP J1	L	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
04	BAT BUS	TWISTED W/ PIN 17		BFP J1	H	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
05	PCB BUS	TWISTED W/ PIN 11		PCB P1	01	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
06	PCB BUS	TWISTED W/ PIN 12		PCB P1	02	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
07	PCB BUS	TWISTED W/ PIN 13		PCB P1	03	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
08	+28VDC UMB PWR	TWISTED W/ PIN 10		EPD	2	COMMON CATHODE	20	SCJ	M27500/-20-SE-1-U-14
09	SPARE			N/C	N/C				
10	+28VDC UMB PWR RTN	TWISTED W/ PIN 8		TAC J1	-b	TAC EXT PWR RTN	20	SCJ	M27500/-20-SE-1-U-14
10-spl1	+28VDC UMB PWR RTN	TWISTED W/ PIN 8		UMB J1	02	UMB +28V EXT PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
11	PCB BUS RTN	TWISTED W/ PIN 5		PCB P1	15	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
12	PCB BUS RTN	TWISTED W/ PIN 6		PCB P1	16	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
13	PCB BUS RTN	TWISTED W/ PIN 7		PCB P1	17	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
14	BAT BUS RTN	TWISTED W/ PIN 1		BAT P1	S	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
15	BAT BUS RTN	TWISTED W/ PIN 2		BAT P1	R	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
16	BAT BUS RTN	TWISTED W/ PIN 3		BAT P1	P	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
17	BAT BUS RTN	TWISTED W/ PIN 4		BAT P1	N	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
18	BAT BUS	TWISTED W/ PIN 31		BFP J1	M	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
19	BAT BUS	TWISTED W/ PIN 32		BFP J1	Y	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
20	BAT BUS	TWISTED W/ PIN 33		BFP J1	G	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
21	PCB BUS	TWISTED W/ PIN 28		PCB P1	04	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
22	PCB BUS	TWISTED W/ PIN 29		PCB P1	05	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
23	PCB BUS	TWISTED W/ PIN 30		PCB P1	20	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
24	SPARE			N/C	N/C				
25	+28VDC UMB PWR	TWISTED W/ PIN 27		EPD	2	COMMON CATHODE	20	SCJ	M27500/-20-SE-1-U-14
26	SPARE			N/C	N/C				
27	+28VDC UMB PWR RTN	TWISTED W/ PIN 25		TAC J1	-c	TAC EXT PWR RTN	20	SCJ	M27500/-20-SE-1-U-14
27-spl1	+28VDC UMB PWR RTN	TWISTED W/ PIN 25		UMB J1	04	UMB +28V EXT PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
28	PCB BUS RTN	TWISTED W/ PIN 21		PCB P1	18	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
29	PCB BUS RTN	TWISTED W/ PIN 22		PCB P1	19	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
30	PCB BUS RTN	TWISTED W/ PIN 23		PCB P1	33	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
31	BAT BUS RTN	TWISTED W/ PIN 18		BAT P1	M	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
32	BAT BUS RTN	TWISTED W/ PIN 19		BAT P1	L	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
33	BAT BUS RTN	TWISTED W/ PIN 20		BAT P1	-e	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
34	BAT BUS	TWISTED W/ PIN 48		BFP J1	E	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
35	BAT BUS	TWISTED W/ PIN 49		BFP J1	N	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
36	BAT BUS	TWISTED W/ PIN 50		BFP J1	F	BAT BUS	20	TPJ	M27500/-20-SE-2-U-14
37	PCB BUS	TWISTED W/ PIN 44		PCB P1	21	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
38	PCB BUS	TWISTED W/ PIN 45		PCB P1	22	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
39	PCB BUS	TWISTED W/ PIN 46		PCB P1	23	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
40	PCB BUS	TWISTED W/ PIN 47		PCB P1	24	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
41	+28VDC UMB PWR	TWISTED W/ PIN 43		EPD	2	COMMON CATHODE	20	SCJ	M27500/-20-SE-1-U-14
42	SPARE			N/C	N/C				
43	+28VDC UMB PWR RTN	TWISTED W/ PIN 41		TAC J1	-d	TAC EXT PWR RTN	20	SCJ	M27500/-20-SE-1-U-14
44	PCB BUS RTN	TWISTED W/ PIN 37		PCB P1	34	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
45	PCB BUS RTN	TWISTED W/ PIN 38		PCB P1	35	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
46	PCB BUS RTN	TWISTED W/ PIN 39		PCB P1	36	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
47	PCB BUS RTN	TWISTED W/ PIN 40		PCB P1	37	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
48	BAT BUS RTN	TWISTED W/ PIN 34		BAT P1	-d	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14

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49	BAT BUS RTN	TWISTED W/ PIN 35		BAT P1	-c	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14
50	BAT BUS RTN	TWISTED W/ PIN 36		BAT P1	-b	BAT BUS RTN	20	TPJ	M27500/-20-SE-2-U-14

CCB P3

ConnType	D 25P
PartNo	311P409-3P-B-12
Connector MIL-C No	311P409-3P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DB50906-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	BAT TEMP1 HI	TWISTED W/ PIN 2	SHELL	BAT P2	20	BAT TEMP1 HI	24	TPSJ	M27500/-24-SE-2-S-14
02	BAT TEMP1 LO	TWISTED W/ PIN 1	SHELL	BAT P2	21	BAT TEMP1 LO	24	TPSJ	M27500/-24-SE-2-S-14
03	MISSION MODE RLY PWR	TWISTED W/ PIN 16		PCB P2	17	SPARE2 PWR	22	TPJ	M27500/-22-SE-2-U-14
04	BAT TEMP2 HI	TWISTED W/ PIN 5	SHELL	BAT P2	23	BAT TEMP2 HI	24	TPSJ	M27500/-24-SE-2-S-14
05	BAT TEMP2 LO	TWISTED W/ PIN 4	SHELL	BAT P2	24	BAT TEMP2 LO	24	TPSJ	M27500/-24-SE-2-S-14
06	EB CNV ON	TWISTED W/ PIN 9		SEM P2	07	VME ON	22	TPJ	M27500/-22-SE-2-U-14
07	EB CNV ON	TWISTED W/ PIN 10		SEM P2	08	VME ON	22	TPJ	M27500/-22-SE-2-U-14
08	BAT VOLT SENSE	TWISTED W/ PIN 12		BAT P2	03	BAT VOLT SENSE	24	TPJ	M27500/-24-SE-2-U-14
09	EB CNV ON RTN	TWISTED W/ PIN 6		SEM P2	24	VME ON RTN	22	TPJ	M27500/-22-SE-2-U-14
10	EB CNV ON RTN	TWISTED W/ PIN 7		SEM P2	25	VME ON RTN	22	TPJ	M27500/-22-SE-2-U-14
11	BAT 1/2 VOLT SENSE			BAT P2	04	BAT 1/2 VOLT SENSE	24	SCJ	M27500/-24-SE-1-U-14
12	BAT SIG RTN	TWISTED W/ PIN 8		BAT P2	13	BAT SIG RTN	24	TPJ	M27500/-24-SE-2-U-14
13	TLMA BAT PRESS1			PACI P2	056	GP ANALOG CH3	24	SCJ	M27500/-24-SE-1-U-14
14	MISSION MODE RLY PWR	TWISTED W/ PIN 15		PCB P2	18	SPARE2 PWR	22	TPJ	M27500/-22-SE-2-U-14
15	SSION MODE RLY PWR RT	TWISTED W/ PIN 14		PCB P2	39	SPARE2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
16	SSION MODE RLY PWR RT	TWISTED W/ PIN 3		PCB P2	38	SPARE2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
17	TLMA BAT PRESS2			PACI P2	057	GP ANALOG CH4	24	SCJ	M27500/-24-SE-1-U-14
18	SPARE			N/C	N/C				
19	BAT PRESS1 HI	TWISTED W/ PIN 20		BAT P2	15	BAT PRESS1 HI	24	TPJ	M27500/-24-SE-2-U-14
20	BAT PRESS1 LO	TWISTED W/ PIN 19		BAT P2	16	BAT PRESS1 LO	24	TPJ	M27500/-24-SE-2-U-14
21	MISSION MODE ST		OPEN	PACI P1	022	DIG DOUT1	24	SCSJ	M27500/-24-SE-1-S-14
22	MISSION MODE SE		OPEN	PACI P1	021	DIG DOUT0	24	SCSJ	M27500/-24-SE-1-S-14
23	BAT PRESS2 HI	TWISTED W/ PIN 24		BAT P2	18	BAT PRESS2 HI	24	TPJ	M27500/-24-SE-2-U-14
24	BAT PRESS2 LO	TWISTED W/ PIN 23		BAT P2	19	BAT PRESS2 LO	24	TPJ	M27500/-24-SE-2-U-14
25	MISSION MODE CE		OPEN	PACI P1	024	DIG DOUT2	24	SCSJ	M27500/-24-SE-1-S-14

CIB P1

ConnType	MICRO D 100P Keyed @ 39
PartNo	MM41210016181WQAS9
Connector MIL-C No	NONE
MIL-C Pin No	NONE
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
001	TLM DAT TX HI	TWISTED W/ PIN 2	SHELL	XPD P11	19	TLM DAT IN HI	24	TPSJ	M27500/-24-SE-2-S-14
002	TLM DAT TX LO	TWISTED W/ PIN 1	SHELL	XPD P11	20	TLM DAT IN LO	24	TPSJ	M27500/-24-SE-2-S-14
003	DGND	SHLD RTN		N/C	N/C				
004	TLM CLK TX HI	TWISTED W/ PIN 5	SHELL	XPD P11	22	TLM CLK IN HI	24	TPSJ	M27500/-24-SE-2-S-14
005	TLM CLK TX LO	TWISTED W/ PIN 4	SHELL	XPD P11	23	TLM CLK IN LO	24	TPSJ	M27500/-24-SE-2-S-14
006	DGND	SHLD RTN		N/C	N/C				
007	PLY CLK SSR HI	TWISTED W/ PIN 8	SHELL	FJC P3	086	SSR PLYBK CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
008	PLY CLK SSR LO	TWISTED W/ PIN 7	SHELL	FJC P3	087	SSR PLYBK CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
009	DGND			N/C	N/C				
010	RDY SSR TX HI	TWISTED W/ PIN 11	SHELL	FJC P3	088	SSR PLYBK RDY HI	24	TPSJ	M27500/-24-SE-2-S-14
011	RDY SSR TX LO	TWISTED W/ PIN 10	SHELL	FJC P3	089	SSR PLYBK RDY LO	24	TPSJ	M27500/-24-SE-2-S-14
012	DGND	TWISTED W/ PIN 13	OPEN	XPD P9	02	DAT A RTN	24	TPSJ	M27500/-24-SE-2-S-14
013	UPLK DAT RX A HI	TWISTED W/ PIN 12	OPEN	XPD P9	01	DAT A	24	TPSJ	M27500/-24-SE-2-S-14
014	UPLK DAT RX A LO			N/C	N/C				
015	DGND	TWISTED W/ PIN 16	OPEN	XPD P9	04	CLK A RTN	24	TPSJ	M27500/-24-SE-2-S-14
016	UPLK CLK RX A HI	TWISTED W/ PIN 15	OPEN	XPD P9	03	CLK A	24	TPSJ	M27500/-24-SE-2-S-14
017	UPLK CLK RX A LO			N/C	N/C				
018	DGND	TWISTED W/ PIN 19	OPEN	XPD P9	20	CDU LOCK A RTN	24	TPSJ	M27500/-24-SE-2-S-14
019	UPLK ENA RX A HI	TWISTED W/ PIN 18	OPEN	XPD P9	19	CDU LOCK A	24	TPSJ	M27500/-24-SE-2-S-14
020	UPLK ENA RX A LO			N/C	N/C				
021	DGND	TWISTED W/ PIN 22	OPEN	XPD P9	06	DAT B RTN	24	TPSJ	M27500/-24-SE-2-S-14
022	UPLK DAT RX B HI	TWISTED W/ PIN 21	OPEN	XPD P9	05	DAT B	24	TPSJ	M27500/-24-SE-2-S-14
023	UPLK DAT RX B LO			N/C	N/C				
024	DGND	TWISTED W/ PIN 25	OPEN	XPD P9	08	CLK B RTN	24	TPSJ	M27500/-24-SE-2-S-14
025	UPLK CLK RX B HI	TWISTED W/ PIN 24	OPEN	XPD P9	07	CLK B	24	TPSJ	M27500/-24-SE-2-S-14
026	UPLK CLK RX B LO			N/C	N/C				
027	DGND	TWISTED W/ PIN 28	OPEN	XPD P9	24	CDU LOCK B RTN	24	TPSJ	M27500/-24-SE-2-S-14
028	UPLK ENA RX B HI	TWISTED W/ PIN 27	OPEN	XPD P9	23	CDU LOCK B	24	TPSJ	M27500/-24-SE-2-S-14
029	UPLK ENA RX B LO			N/C	N/C				
030	DGND			N/C	N/C				
031	RPLY CLK RX HI	TWISTED W/ PIN 32	OPEN	FJC P3	063	SSR PLYBK CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
032	RPLY CLK RX LO	TWISTED W/ PIN 31	OPEN	FJC P3	064	SSR PLYBK CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
033	RPLY VALF RX HI	TWISTED W/ PIN 34	OPEN	FJC P3	065	SSR PLYBK VAL HI	24	TPSJ	M27500/-24-SE-2-S-14
034	RPLY VALF RX LO	TWISTED W/ PIN 33	OPEN	FJC P3	066	SSR PLYBK VAL LO	24	TPSJ	M27500/-24-SE-2-S-14
035	RPLY DAT0 RX HI	TWISTED W/ PIN 36	OPEN	FJC P3	082	SSR PLYBK DAT 0 HI	24	TPSJ	M27500/-24-SE-2-S-14
036	RPLY DAT0 RX LO	TWISTED W/ PIN 35	OPEN	FJC P3	083	SSR PLYBK DAT 0 LO	24	TPSJ	M27500/-24-SE-2-S-14
037	RPLY DAT1 RX HI	TWISTED W/ PIN 38	OPEN	FJC P3	080	SSR PLYBK DAT 1 HI	24	TPSJ	M27500/-24-SE-2-S-14
038	RPLY DAT1 RX LO	TWISTED W/ PIN 37	OPEN	FJC P3	081	SSR PLYBK DAT 1 LO	24	TPSJ	M27500/-24-SE-2-S-14
039	KEYFILLED			N/C	N/C				
040	RPLY DAT2 RX HI	TWISTED W/ PIN 41	OPEN	FJC P3	078	SSR PLYBK DAT 2 HI	24	TPSJ	M27500/-24-SE-2-S-14
041	RPLY DAT2 RX LO	TWISTED W/ PIN 40	OPEN	FJC P3	079	SSR PLYBK DAT 2 LO	24	TPSJ	M27500/-24-SE-2-S-14
042	RPLY DAT3 RX HI	TWISTED W/ PIN 43	OPEN	FJC P3	075	SSR PLYBK DAT 3 HI	24	TPSJ	M27500/-24-SE-2-S-14
043	RPLY DAT3 RX LO	TWISTED W/ PIN 42	OPEN	FJC P3	076	SSR PLYBK DAT 3 LO	24	TPSJ	M27500/-24-SE-2-S-14
044	RPLY DAT4 RX HI	TWISTED W/ PIN 45	OPEN	FJC P3	073	SSR PLYBK DAT 4 HI	24	TPSJ	M27500/-24-SE-2-S-14
045	RPLY DAT4 RX LO	TWISTED W/ PIN 44	OPEN	FJC P3	074	SSR PLYBK DAT 4 LO	24	TPSJ	M27500/-24-SE-2-S-14
046	RPLY DAT5 RX HI	TWISTED W/ PIN 47	OPEN	FJC P3	071	SSR PLYBK DAT 5 HI	24	TPSJ	M27500/-24-SE-2-S-14
047	RPLY DAT5 RX LO	TWISTED W/ PIN 46	OPEN	FJC P3	072	SSR PLYBK DAT 5 LO	24	TPSJ	M27500/-24-SE-2-S-14
048	RPLY DAT6 RX HI	TWISTED W/ PIN 49	OPEN	FJC P3	069	SSR PLYBK DAT 6 HI	24	TPSJ	M27500/-24-SE-2-S-14
049	RPLY DAT6 RX LO	TWISTED W/ PIN 48	OPEN	FJC P3	070	SSR PLYBK DAT 6 LO	24	TPSJ	M27500/-24-SE-2-S-14
050	RPLY DAT7 RX HI	TWISTED W/ PIN 51	OPEN	FJC P3	067	SSR PLYBK DAT 7 HI	24	TPSJ	M27500/-24-SE-2-S-14

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051	RPLY DAT7 RX LO	TWISTED W/ PIN 50	OPEN	FJC P3	068	SSR PLYBK DAT 7 LO	24	TPSJ	M27500/-24-SE-2-S-14
052	DGND			FJC P3	092	DGND	24	SCJ	M27500/-24-SE-1-U-14
053	DGND			FJC P3	091	DGND	24	SCJ	M27500/-24-SE-1-U-14
054	SPARE1 RX			N/C	N/C				
055	SPARE1 RX			N/C	N/C				
056	SPARE1 TX			N/C	N/C				
057	SPARE1 TX			N/C	N/C				
058	DGND			N/C	N/C				
059	SPARE2 TX			N/C	N/C				
060	SPARE2 TX			N/C	N/C				
061	DGND			N/C	N/C				
062	SPARE			N/C	N/C				
063	CRC21			SEM P2	01	EEPROM WRENA	24	SCJ	M27500/-24-SE-1-U-14
064	CRC22			N/C	N/C				
065	CRC23			N/C	N/C				
066	SPARE			N/C	N/C				
067	SPARE			N/C	N/C				
068	SPARE			N/C	N/C				
069	SPARE			N/C	N/C				
070	SPARE			N/C	N/C				
071	SPARE			N/C	N/C				
072	SPARE			N/C	N/C				
073	SPARE			N/C	N/C				
074	SPARE			N/C	N/C				
075	SPARE			N/C	N/C				
076	SPARE			N/C	N/C				
077	SPARE			N/C	N/C				
078	SPARE			N/C	N/C				
079	SPARE			N/C	N/C				
080	SPARE			N/C	N/C				
081	SPARE			N/C	N/C				
082	SPARE			N/C	N/C				
083	SPARE			N/C	N/C				
084	SPARE			N/C	N/C				
085	SPARE			N/C	N/C				
086	SPARE			N/C	N/C				
087	SPARE			N/C	N/C				
088	SPARE			N/C	N/C				
089	SPARE			N/C	N/C				
090	SPARE			N/C	N/C				
091	SPARE			N/C	N/C				
092	SPARE			N/C	N/C				
093	SPARE			N/C	N/C				
094	SPARE			N/C	N/C				
095	SPARE			N/C	N/C				
096	SPARE			N/C	N/C				
097	SPARE			N/C	N/C				
098	SPARE			N/C	N/C				
099	SPARE			N/C	N/C				
100	SPARE			N/C	N/C				

CIB P2

ConnType	MICRO D 25P
PartNo	MQ21202516141WQ
Connector MIL-C No	NONE
MIL-C Pin No	NONE
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	N/C			N/C	N/C				
02	GSE DAT TX HI	TWISTED W/ PIN 3	SHELL	TAC J1	X	TAC HARD TLM	24	TPSJ	M27500/-24-SE-2-S-14
03	GSE DAT TX LO	TWISTED W/ PIN 2	SHELL	TAC J1	Y	TAC HARD TLM RTN	24	TPSJ	M27500/-24-SE-2-S-14
04	DGND	SHLD RTN		N/C	N/C				
05	GSE CLK TX HI	TWISTED W/ PIN 6	SHELL	TAC J1	G	TAC HARD CLK	24	TPSJ	M27500/-24-SE-2-S-14
06	GSE CLK TX LO	TWISTED W/ PIN 5	SHELL	TAC J1	H	TAC HARD CLK RTN	24	TPSJ	M27500/-24-SE-2-S-14
07	DGND	SHLD RTN		N/C	N/C				
08	GSE CLK RX HI	TWISTED W/ PIN 9	SHELL	TAC J1	C	TAC HARD CLK	24	TPSJ	M27500/-24-SE-2-S-14
09	GSE CLK RX LO	TWISTED W/ PIN 8	SHELL	TAC J1	D	TAC HARD CLK RTN	24	TPSJ	M27500/-24-SE-2-S-14
10	DGND			N/C	N/C				
11	GSE DAT RX HI	TWISTED W/ PIN 12	SHELL	TAC J1	A	TAC HARD CMD	24	TPSJ	M27500/-24-SE-2-S-14
12	GSE DAT RX LO	TWISTED W/ PIN 11	SHELL	TAC J1	B	TAC HARD CMD RTN	24	TPSJ	M27500/-24-SE-2-S-14
13	N/C			N/C	N/C				
14	DGND			N/C	N/C				
15	GSE ENA RX HI	TWISTED W/ PIN 16	SHELL	TAC J1	E	TAC HARD ENA	24	TPSJ	M27500/-24-SE-2-S-14
16	GSE ENA RX LO	TWISTED W/ PIN 15	SHELL	TAC J1	F	TAC HARD ENA RTN	24	TPSJ	M27500/-24-SE-2-S-14
17	DGND			N/C	N/C				
18	DGND			N/C	N/C				
19	DGND			N/C	N/C				
20	DGND	TWISTED W/ PIN 21	SHELL	TAC J1	W	CIB GSE ENA RTN	24	TPSJ	M27500/-24-SE-2-S-14
21	GSE SEL	TWISTED W/ PIN 20	SHELL	TAC J1	V	CIB GSE ENA	24	TPSJ	M27500/-24-SE-2-S-14
22	SPARE			N/C	N/C				
23	SPARE			N/C	N/C				
24	SPARE			N/C	N/C				
25	SPARE			N/C	N/C				

CPC P1

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CRYO PWR	TWISTED W/ PIN 6		FJC J2	005	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
01-spl1	CRYO PWR	TWISTED W/ PIN 6		FJC J2	006	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
01-spl2	CRYO PWR	TWISTED W/ PIN 6		FJC J2	007	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
01-spl3	CRYO PWR	TWISTED W/ PIN 6		FJC J2	008	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
02	CRYO PWR	TWISTED W/ PIN 7		FJC J2	009	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
02-spl1	CRYO PWR	TWISTED W/ PIN 7		FJC J2	010	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
02-spl2	CRYO PWR	TWISTED W/ PIN 7		FJC J2	011	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
02-spl3	CRYO PWR	TWISTED W/ PIN 7		FJC J2	012	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
03	SPARE			N/C	N/C				
04	CPC TEMP SENSOR	TWISTED W/ PIN 8	OPEN	FJC J2	001	CPC TEMP SENSOR	24	TPSJ	M27500/-24-SE-2-S-14
05	SPECT TEMP SENSOR	TWISTED W/ PIN 9	OPEN	FJC J2	003	CPC TEMP SENSOR	24	TPSJ	M27500/-24-SE-2-S-14
06	CRYO PWR RTN	TWISTED W/ PIN 1		FJC J2	013	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
06-spl1	CRYO PWR RTN	TWISTED W/ PIN 1		FJC J2	014	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
06-spl2	CRYO PWR RTN	TWISTED W/ PIN 1		FJC J2	015	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
06-spl3	CRYO PWR RTN	TWISTED W/ PIN 1		FJC J2	016	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
07	CRYO PWR RTN	TWISTED W/ PIN 2		FJC J2	017	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
07-spl1	CRYO PWR RTN	TWISTED W/ PIN 2		FJC J2	018	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
07-spl2	CRYO PWR RTN	TWISTED W/ PIN 2		FJC J2	019	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
07-spl3	CRYO PWR RTN	TWISTED W/ PIN 2		FJC J2	020	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
08	CPC TEMP SENSOR RTN	TWISTED W/ PIN 4	OPEN	FJC J2	002	CPC TEMP SENSOR RTN	24	TPSJ	M27500/-24-SE-2-S-14
09	SPECT TEMP SENSOR RTN	TWISTED W/ PIN 5	OPEN	FJC J2	004	CPC TEMP SENSOR RTN	24	TPSJ	M27500/-24-SE-2-S-14

EPD

ConnType	Solder Terminals
PartNo	IR162CMQ030
Connector MIL-C No	N/A
MIL-C Pin No	N/A
Backshell Part No	N/A

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	DIODE 1 ANODE			TAC J1	M	TAC EXT PWR	20	SCJ	M27500/-20-SE-1-U-14
1	DIODE 1 ANODE			TAC J1	N	TAC EXT PWR	20	SCJ	M27500/-20-SE-1-U-14
1	DIODE 1 ANODE			TAC J1	P	TAC EXT PWR	20	SCJ	M27500/-20-SE-1-U-14
2	COMMON CATHODE			CCB P2	25	+28VDC UMB PWR	20	SCJ	M27500/-20-SE-1-U-14
2	COMMON CATHODE			CCB P2	41	+28VDC UMB PWR	20	SCJ	M27500/-20-SE-1-U-14
2	COMMON CATHODE			CCB P2	08	+28VDC UMB PWR	20	SCJ	M27500/-20-SE-1-U-14
3	DIODE 2 ANODE			UMB J1	01	UMB +28V EXT PWR	22	SCJ	M27500/-22-SE-1-U-14
3	DIODE 2 ANODE			UMB J1	03	UMB +28V EXT PWR	22	SCJ	M27500/-22-SE-1-U-14

FEP J1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27474T16F42SA
Connector MIL-C No	MS27474T16F42SA
MIL-C Pin No	M39029/57-354
Backshell Part No	NLS-RCT-16N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	+ X UP PRI IN			ADB P1	15	+ X UP PRI	22	TPJ	M27500/-22-SE-2-U-14
02	+ X UP PRI OUT			FJC P1	082	+ X UP PRI	22	TPJ	M27500/-22-SE-2-U-14
03	- X UP PRI IN			ADB P1	49	- X UP PRI	22	TPJ	M27500/-22-SE-2-U-14
04	- X UP PRI OUT			FJC P2	080	- X UP PRI	22	TPJ	M27500/-22-SE-2-U-14
05	+ Y UP PRI IN			ADB P1	28	+ Y UP PRI	22	TPJ	M27500/-22-SE-2-U-14
06	+ Y UP PRI OUT			FJC P1	086	+ Y UP PRI	22	TPJ	M27500/-22-SE-2-U-14
07	- Y UP PRI IN			ADB P1	13	- Y UP PRI	22	TPJ	M27500/-22-SE-2-U-14
08	- Y UP PRI OUT			FJC P2	084	- Y UP PRI	22	TPJ	M27500/-22-SE-2-U-14
09	+ X LO PRI IN			ADB P1	30	+ X LO PRI	22	TPJ	M27500/-22-SE-2-U-14
10	+ X LO PRI OUT			FJC P1	090	+ X LO PRI	22	TPJ	M27500/-22-SE-2-U-14
11	- X LO PRI IN			ADB P1	47	- X LO PRI	22	TPJ	M27500/-22-SE-2-U-14
12	- X LO PRI OUT			FJC P2	088	- X LO PRI	22	TPJ	M27500/-22-SE-2-U-14
13	+ Y LO PRI IN			ADB P1	12	+ Y LO PRI	22	TPJ	M27500/-22-SE-2-U-14
14	+ Y LO PRI OUT			FJC P1	094	+ Y LO PRI	22	TPJ	M27500/-22-SE-2-U-14
15	- Y LO PRI IN			ADB P1	11	- Y LO PRI	22	TPJ	M27500/-22-SE-2-U-14
16	- Y LO PRI OUT			FJC P2	092	- Y LO PRI	22	TPJ	M27500/-22-SE-2-U-14
17	+ X UP SEC IN			ADB P1	16	+ X UP SEC	22	TPJ	M27500/-22-SE-2-U-14
18	+ X UP SEC OUT			FJC P1	084	+ X UP SEC	22	TPJ	M27500/-22-SE-2-U-14
19	- X UP SEC IN			ADB P1	48	- X UP SEC	22	TPJ	M27500/-22-SE-2-U-14
20	- X UP SEC OUT			FJC P2	082	- X UP SEC	22	TPJ	M27500/-22-SE-2-U-14
21	+ Y UP SEC IN			ADB P1	46	+ Y UP SEC	22	TPJ	M27500/-22-SE-2-U-14
22	+ Y UP SEC OUT			FJC P1	088	+ Y UP SEC	22	TPJ	M27500/-22-SE-2-U-14
23	- Y UP SEC IN			ADB P1	29	- Y UP SEC	22	TPJ	M27500/-22-SE-2-U-14
24	- Y UP SEC OUT			FJC P2	086	- Y UP SEC	22	TPJ	M27500/-22-SE-2-U-14
25	+ X LO SEC IN			ADB P1	31	+ X LO SEC	22	TPJ	M27500/-22-SE-2-U-14
26	+ X LO SEC OUT			FJC P1	092	+ X LO SEC	22	TPJ	M27500/-22-SE-2-U-14
27	SPARE			N/C	N/C				
28	SPARE			N/C	N/C				
29	- X LO SEC IN			ADB P1	14	- X LO SEC	22	TPJ	M27500/-22-SE-2-U-14
30	- X LO SEC OUT			FJC P2	090	- X LO SEC	22	TPJ	M27500/-22-SE-2-U-14
31	+ Y LO SEC IN			ADB P1	44	+ Y LO SEC	22	TPJ	M27500/-22-SE-2-U-14
32	+ Y LO SEC OUT			FJC P1	096	+ Y LO SEC	22	TPJ	M27500/-22-SE-2-U-14
33	- Y LO SEC IN			ADB P1	45	- Y LO SEC	22	TPJ	M27500/-22-SE-2-U-14
34	- Y LO SEC OUT			FJC P2	094	- Y LO SEC	22	TPJ	M27500/-22-SE-2-U-14
35	XMT ON/OFF IN			PCB P3	53	XPD ON/OFF	22	SCJ	M27500/-22-SE-1-U-14
36	XMT ON/OFF OUT			XPD P11	05	XMT ON/OFF	22	SCJ	M27500/-22-SE-1-U-14
37	XMT ON/OFF IN			PCB P3	53-spl1	XPD ON/OFF	22	SCJ	M27500/-22-SE-1-U-14
38	XMT ON/OFF OUT			XPD P11	05-spl1	XMT ON/OFF	22	SCJ	M27500/-22-SE-1-U-14
39	SPARE			N/C	N/C				
40	SPARE			N/C	N/C				
41	SPARE			N/C	N/C				
42	SPARE			N/C	N/C				

FEP P1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27484T16F42PA
Connector MIL-C No	MS27484T16F42PA
MIL-C Pin No	M39029/58-360
Backshell Part No	340FS001M16-3N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	+ X UP PRI IN	JUMPER TO PIN 2		FEP P1	02	+ X UP PRI OUT	22	SCJ	M27500/22-SE-1-U-14
02	+ X UP PRI OUT	JUMPER TO PIN 1		FEP P1	01	+ X UP PRI IN	22	SCJ	M27500/22-SE-1-U-14
03	- X UP PRI IN	JUMPER TO PIN 4		FEP P1	04	- X UP PRI OUT	22	SCJ	M27500/22-SE-1-U-14
04	- X UP PRI OUT	JUMPER TO PIN 3		FEP P1	03	- X UP PRI IN	22	SCJ	M27500/22-SE-1-U-14
05	+ Y UP PRI IN	JUMPER TO PIN 6		FEP P1	06	+ Y UP PRI OUT	22	SCJ	M27500/22-SE-1-U-14
06	+ Y UP PRI OUT	JUMPER TO PIN 5		FEP P1	05	+ Y UP PRI IN	22	SCJ	M27500/22-SE-1-U-14
07	- Y UP PRI IN	JUMPER TO PIN 8		FEP P1	08	- Y UP PRI OUT	22	SCJ	M27500/22-SE-1-U-14
08	- Y UP PRI OUT	JUMPER TO PIN 7		FEP P1	07	- Y UP PRI IN	22	SCJ	M27500/22-SE-1-U-14
09	+ X LO PRI IN	JUMPER TO PIN 10		FEP P1	10	+ X LO PRI OUT	22	SCJ	M27500/22-SE-1-U-14
10	+ X LO PRI OUT	JUMPER TO PIN 9		FEP P1	09	+ X LO PRI IN	22	SCJ	M27500/22-SE-1-U-14
11	- X LO PRI IN	JUMPER TO PIN 12		FEP P1	12	- X LO PRI OUT	22	SCJ	M27500/22-SE-1-U-14
12	- X LO PRI OUT	JUMPER TO PIN 11		FEP P1	11	- X LO PRI IN	22	SCJ	M27500/22-SE-1-U-14
13	+ Y LO PRI IN	JUMPER TO PIN 14		FEP P1	14	+ Y LO PRI OUT	22	SCJ	M27500/22-SE-1-U-14
14	+ Y LO PRI OUT	JUMPER TO PIN 13		FEP P1	13	+ Y LO PRI IN	22	SCJ	M27500/22-SE-1-U-14
15	- Y LO PRI IN	JUMPER TO PIN 16		FEP P1	16	- Y LO PRI OUT	22	SCJ	M27500/22-SE-1-U-14
16	- Y LO PRI OUT	JUMPER TO PIN 15		FEP P1	15	- Y LO PRI IN	22	SCJ	M27500/22-SE-1-U-14
17	+ X UP SEC IN	JUMPER TO PIN 18		FEP P1	18	+ X UP SEC OUT	22	SCJ	M27500/22-SE-1-U-14
18	+ X UP SEC OUT	JUMPER TO PIN 17		FEP P1	17	+ X UP SEC IN	22	SCJ	M27500/22-SE-1-U-14
19	- X UP SEC IN	JUMPER TO PIN 20		FEP P1	20	- X UP SEC OUT	22	SCJ	M27500/22-SE-1-U-14
20	- X UP SEC OUT	JUMPER TO PIN 19		FEP P1	19	- X UP SEC IN	22	SCJ	M27500/22-SE-1-U-14
21	+ Y UP SEC IN	JUMPER TO PIN 22		FEP P1	22	+ Y UP SEC OUT	22	SCJ	M27500/22-SE-1-U-14
22	+ Y UP SEC OUT	JUMPER TO PIN 21		FEP P1	21	+ Y UP SEC IN	22	SCJ	M27500/22-SE-1-U-14
23	- Y UP SEC IN	JUMPER TO PIN 24		FEP P1	24	- Y UP SEC OUT	22	SCJ	M27500/22-SE-1-U-14
24	- Y UP SEC OUT	JUMPER TO PIN 23		FEP P1	23	- Y UP SEC IN	22	SCJ	M27500/22-SE-1-U-14
25	+ X LO SEC IN	JUMPER TO PIN 26		FEP P1	26	+ X LO SEC OUT	22	SCJ	M27500/22-SE-1-U-14
26	+ X LO SEC OUT	JUMPER TO PIN 25		FEP P1	25	+ X LO SEC IN	22	SCJ	M27500/22-SE-1-U-14
27	N/C			N/C	N/C				
28	N/C			N/C	N/C				
29	- X LO SEC IN	JUMPER TO PIN 30		FEP P1	30	- X LO SEC OUT	22	SCJ	M27500/22-SE-1-U-14
30	- X LO SEC OUT	JUMPER TO PIN 29		FEP P1	29	- X LO SEC IN	22	SCJ	M27500/22-SE-1-U-14
31	+ Y LO SEC IN	JUMPER TO PIN 32		FEP P1	32	+ Y LO SEC OUT	22	SCJ	M27500/22-SE-1-U-14
32	+ Y LO SEC OUT	JUMPER TO PIN 31		FEP P1	31	+ Y LO SEC IN	22	SCJ	M27500/22-SE-1-U-14
33	- Y LO SEC IN	JUMPER TO PIN 34		FEP P1	34	- Y LO SEC OUT	22	SCJ	M27500/22-SE-1-U-14
34	- Y LO SEC OUT	JUMPER TO PIN 33		FEP P1	33	- Y LO SEC IN	22	SCJ	M27500/22-SE-1-U-14
35	XMT ON/OFF IN	JUMPER TO PIN 36		FEP P1	36	XMT ON/OFF OUT	22	SCJ	M27500/22-SE-1-U-14
36	XMT ON/OFF OUT	JUMPER TO PIN 35		FEP P1	35	XMT ON/OFF IN	22	SCJ	M27500/22-SE-1-U-14
37	XMT ON/OFF IN	JUMPER TO PIN 38		FEP P1	38	XMT ON/OFF OUT	22	SCJ	M27500/22-SE-1-U-14
38	XMT ON/OFF OUT	JUMPER TO PIN 37		FEP P1	37	XMT ON/OFF IN	22	SCJ	M27500/22-SE-1-U-14
39	N/C			N/C	N/C				
40	N/C			N/C	N/C				
41	N/C			N/C	N/C				
42	N/C			N/C	N/C				

FJC J1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27497T22F35S
Connector MIL-C No	MS27497T22F35S
MIL-C Pin No	M39029/57-354
Backshell Part No	NLS-FCT-22N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
001	IDPU HTR PWR	TWISTED W/ PIN 4		IPC P1	01	IDPU HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
002	IDPU HTR PWR	TWISTED W/ PIN 5		IPC P1	01-spl1	IDPU HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
003	SPARE			N/C	N/C				
004	IDPU HTR PWR RTN	TWISTED W/ PIN 1		IPC P1	06	HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
005	IDPU HTR PWR RTN	TWISTED W/ PIN 2		IPC P1	06-spl1	HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
006	SPARE			N/C	N/C				
007	SPARE			N/C	N/C				
008	IDPU PWR	TWISTED W/ PIN 11		IPC P1	02	IDPU PWR	22	TPJ	M27500/-22-SE-2-U-14
009	IDPU PWR	TWISTED W/ PIN 12		IPC P1	02-spl1	IDPU PWR	22	TPJ	M27500/-22-SE-2-U-14
010	SPARE			N/C	N/C				
011	IDPU PWR RTN	TWISTED W/ PIN 8		IPC P1	07	IDPU PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
012	IDPU PWR RTN	TWISTED W/ PIN 9		IPC P1	07-spl1	IDPU PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
013	SPARE			N/C	N/C				
014	SPARE			N/C	N/C				
015	SPARE			N/C	N/C				
016	IDPU SW PWR	TWISTED W/ PIN 19		IPC P1	03	IDPU SW PWR	22	TPJ	M27500/-22-SE-2-U-14
017	IDPU SW PWR	TWISTED W/ PIN 20		IPC P1	03-spl1	IDPU SW PWR	22	TPJ	M27500/-22-SE-2-U-14
018	SPARE			N/C	N/C				
019	IDPU SW PWR RTN	TWISTED W/ PIN 16		IPC P1	08	IDPU SW PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
020	IDPU SW PWR RTN	TWISTED W/ PIN 17		IPC P1	08-spl1	IDPU SW PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
021	MLI AD590 +	TWISTED W/ PIN 24	PIN 100	MLI ICP1	A	MLI AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
022	IPC TEMP	TWISTED W/ PIN 23	PIN 100	IPC P1	05	IPC TEMP	24	TPSJ	M27500/-24-SE-2-S-14
023	IPC TEMP RTN	TWISTED W/ PIN 22	PIN 100	IPC P1	09	IPC TEMP RTN	24	TPSJ	M27500/-24-SE-2-S-14
024	MLI AD590 -	TWISTED W/ PIN 21	PIN 100	MLI ICP1	B	MLI AD590 -	24	TPSJ	M27500/-24-SE-2-S-14
025	MAG +15V PWR	TWISTED W/ PIN 30		MAG P1	01	PWR +15VDC	22	TPJ	M27500/-22-SE-2-U-14
026	MAG +15V PWR	TWISTED W/ PIN 31		MAG P1	01-spl1	PWR +15VDC	22	TPJ	M27500/-22-SE-2-U-14
027	MAG -15V PWR	TWISTED W/ PIN 32		MAG P1	09	PWR -15VDC	22	TPJ	M27500/-22-SE-2-U-14
028	MAG -15V PWR	TWISTED W/ PIN 33		MAG P1	09-spl1	PWR -15VDC	22	TPJ	M27500/-22-SE-2-U-14
029	SPARE			N/C	N/C				
030	MAG +15V PWR RTN	TWISTED W/ PIN 25		MAG P1	04	PWR GND	22	TPJ	M27500/-22-SE-2-U-14
031	MAG +15V PWR RTN	TWISTED W/ PIN 26		MAG P1	04-spl2	PWR GND	22	TPJ	M27500/-22-SE-2-U-14
032	MAG -15V PWR RTN	TWISTED W/ PIN 27		MAG P1	04-spl1	PWR GND	22	TPJ	M27500/-22-SE-2-U-14
033	MAG -15V PWR RTN	TWISTED W/ PIN 28		MAG P1	04-spl3	PWR GND	22	TPJ	M27500/-22-SE-2-U-14
034	SPARE			N/C	N/C				
035	TLMA MAG TEMP	TWISTED W/ PIN 36	PIN 98	MAG P1	02	TEMP MON	24	TPSJ	M27500/-24-SE-2-S-14
036	SIG RTN	TWISTED W/ PIN 35	PIN 98	MAG P1	03	SIG GND	24	TPSJ	M27500/-24-SE-2-S-14
037	TLMA MAG Y OUTPUT		PIN 98	MAG P1	05	Y OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
038	TLMA MAG X OUTPUT		PIN 98	MAG P1	06	X OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
039	TLMA MAG Z OUTPUT		PIN 98	MAG P1	08	Z OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
040	SPARE			N/C	N/C				
041	S/W 1 PWR CKT 3/4	TWISTED W/ PIN 44		SW1 J2	03	CKT 3/4 PWR	22	TPJ	M27500/-22-SE-2-U-14
042	S/W 1 PWR CKT 3/4	TWISTED W/ PIN 45		SW1 J2	11	CKT 3/4 PWR	22	TPJ	M27500/-22-SE-2-U-14
043	SPARE			N/C	N/C				
044	S/W 1 PWR CKT 3/4 RTN	TWISTED W/ PIN 41		SW1 J2	01	CKT 3/4 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
045	S/W 1 PWR CKT 3/4 RTN	TWISTED W/ PIN 42		SW1 J2	09	CKT 3/4 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
046	TEMP SENSOR 1	TWISTED W/ PIN 47	PIN 99	SW1 J2	06	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
047	TEMP SENSOR 1 RTN	TWISTED W/ PIN 46	PIN 99	SW1 J2	13	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
048	SUN SENSOR 2	TWISTED W/ PIN 49	PIN 100	SW1 J2	07	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
049	SUN SENSOR 2 RTN	TWISTED W/ PIN 48	PIN 100	SW1 J2	15	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
050	SPARE			N/C	N/C				

051	S/W 2 PWR CKT 1/2	TWISTED W/ PIN 54		SW2 J1	03	CKT 1/2 PWR	22	TPJ	M27500/-22-SE-2-U-14
052	S/W 2 PWR CKT 1/2	TWISTED W/ PIN 55		SW2 J1	11	CKT 1/2 PWR	22	TPJ	M27500/-22-SE-2-U-14
053	SPARE			N/C	N/C				
054	S/W 2 PWR CKT 1/2 RTN	TWISTED W/ PIN 51		SW2 J1	01	CKT 1/2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
055	S/W 2 PWR CKT 1/2 RTN	TWISTED W/ PIN 52		SW2 J1	09	CKT 1/2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
056	DAMPER 2 HTR	TWISTED W/ PIN 57		SW2 J1	06	DAMPER HTR	22	TPJ	M27500/-22-SE-2-U-14
057	DAMPER 2 HTR RTN	TWISTED W/ PIN 56		SW2 J1	13	DAMPER HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
058	SUN SENSOR 1	TWISTED W/ PIN 59	PIN 100	SW2 J1	07	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
059	SUN SENSOR 1 RTN	TWISTED W/ PIN 58	PIN 100	SW2 J1	15	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
060	SPARE			N/C	N/C				
061	S/W 2 PWR CKT 3/4	TWISTED W/ PIN 64		SW2 J2	03	CKT 3/4 PWR	22	TPJ	M27500/-22-SE-2-U-14
062	S/W 2 PWR CKT 3/4	TWISTED W/ PIN 65		SW2 J2	11	CKT 3/4 PWR	22	TPJ	M27500/-22-SE-2-U-14
063	SPARE			N/C	N/C				
064	S/W 2 PWR CKT 3/4 RTN	TWISTED W/ PIN 61		SW2 J2	01	CKT 3/4 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
065	S/W 2 PWR CKT 3/4 RTN	TWISTED W/ PIN 62		SW2 J2	09	CKT 3/4 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
066	SPARE			N/C	N/C				
067	TEMP SENSOR 1	TWISTED W/ PIN 68	PIN 99	SW2 J2	06	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
068	TEMP SENSOR 1 RTN	TWISTED W/ PIN 67	PIN 99	SW2 J2	13	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
069	SUN SENSOR 2	TWISTED W/ PIN 70	PIN 100	SW2 J2	07	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
070	SUN SENSOR 2 RTN	TWISTED W/ PIN 69	PIN 100	SW2 J2	15	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
071	SPARE			N/C	N/C				
072	S/W 3 PWR CKT 1/2	TWISTED W/ PIN 75		SW3 J1	03	CKT 1/2 PWR	22	TPJ	M27500/-22-SE-2-U-14
073	S/W 3 PWR CKT 1/2	TWISTED W/ PIN 76		SW3 J1	11	CKT 1/2 PWR	22	TPJ	M27500/-22-SE-2-U-14
074	SPARE			N/C	N/C				
075	S/W 3 PWR CKT 1/2 RTN	TWISTED W/ PIN 72		SW3 J1	01	CKT 1/2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
076	S/W 3 PWR CKT 1/2 RTN	TWISTED W/ PIN 73		SW3 J1	09	CKT 1/2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
077	DAMPER 3 HTR	TWISTED W/ PIN 78		SW3 J1	06	DAMPER HTR	22	TPJ	M27500/-22-SE-2-U-14
078	DAMPER 3 HTR RTN	TWISTED W/ PIN 77		SW3 J1	13	DAMPER HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
079	SUN SENSOR 1	TWISTED W/ PIN 80	PIN 100	SW3 J1	07	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
080	SUN SENSOR 1 RTN	TWISTED W/ PIN 79	PIN 100	SW3 J1	15	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
081	SPARE			N/C	N/C				
082	+ X UP PRI	TWISTED W/ PIN 83		FPC P1	2	+ X UP PRI	22	TPJ	M27500/-22-SE-2-U-14
083	+ X UP PRI RTN	TWISTED W/ PIN 82		FPC P1	9	+ X UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
084	+ X UP SEC	TWISTED W/ PIN 85		FPC P1	7	+ X UP SEC	22	TPJ	M27500/-22-SE-2-U-14
085	+ X UP SEC RTN	TWISTED W/ PIN 84		FPC P1	5	+ X UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
086	+ Y UP PRI	TWISTED W/ PIN 87		FPC P3	2	+ Y UP PRI	22	TPJ	M27500/-22-SE-2-U-14
087	+ Y UP PRI RTN	TWISTED W/ PIN 86		FPC P3	9	+ Y UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
088	+ Y UP SEC	TWISTED W/ PIN 89		FPC P3	7	+ Y UP SEC	22	TPJ	M27500/-22-SE-2-U-14
089	+ Y UP SEC RTN	TWISTED W/ PIN 88		FPC P3	5	+ Y UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
090	+ X LO PRI	TWISTED W/ PIN 91		FPC P5	2	+ X LO PRI	22	TPJ	M27500/-22-SE-2-U-14
091	+ X LO PRI RTN	TWISTED W/ PIN 90		FPC P5	9	+ X LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
092	+ X LO SEC	TWISTED W/ PIN 93		FPC P5	7	+ X LO SEC	22	TPJ	M27500/-22-SE-2-U-14
093	+ X LO SEC RTN	TWISTED W/ PIN 92		FPC P5	5	+ X LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
094	+ Y LO PRI	TWISTED W/ PIN 95		FPC P7	2	+ Y LO PRI	22	TPJ	M27500/-22-SE-2-U-14
095	+ Y LO PRI RTN	TWISTED W/ PIN 94		FPC P7	9	+ Y LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
096	+ Y LO SEC	TWISTED W/ PIN 97		FPC P7	7	+ Y LO SEC	22	TPJ	M27500/-22-SE-2-U-14
097	+ Y LO SEC RTN	TWISTED W/ PIN 96		FPC P7	5	+ Y LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
098	SHLD	SHLD CARRY THRU		N/C	N/C				
099	SHLD	SHLD CARRY THRU		N/C	N/C				
100	SHLD	SHLD CARRY THRU		N/C	N/C				

FJC J2

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27497T22F35SA
Connector MIL-C No	MS27497T22F35SA
MIL-C Pin No	M39029/57-354
Backshell Part No	NLS-FCT-22N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
001	CPC TEMP SENSOR	TWISTED W/ PIN 2	PIN 99	CPC P1	04	CPC TEMP SENSOR	24	TPSJ	M27500/-24-SE-2-S-14
002	CPC TEMP SENSOR RTN	TWISTED W/ PIN 1	PIN 99	CPC P1	08	CPC TEMP SENSOR RTN	24	TPSJ	M27500/-24-SE-2-S-14
003	CPC TEMP SENSOR	TWISTED W/ PIN 4	PIN 99	CPC P1	05	SPECT TEMP SENSOR	24	TPSJ	M27500/-24-SE-2-S-14
004	CPC TEMP SENSOR RTN	TWISTED W/ PIN 3	PIN 99	CPC P1	09	SPECT TEMP SENSOR RTN	24	TPSJ	M27500/-24-SE-2-S-14
005	CRYO PWR	TWISTED W/ PIN 13		CPC P1	01	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
006	CRYO PWR	TWISTED W/ PIN 14		CPC P1	01-spl1	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
007	CRYO PWR	TWISTED W/ PIN 15		CPC P1	01-spl2	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
008	CRYO PWR	TWISTED W/ PIN 16		CPC P1	01-spl3	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
009	CRYO PWR	TWISTED W/ PIN 17		CPC P1	02	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
010	CRYO PWR	TWISTED W/ PIN 18		CPC P1	02-spl1	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
011	CRYO PWR	TWISTED W/ PIN 19		CPC P1	02-spl2	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
012	CRYO PWR	TWISTED W/ PIN 20		CPC P1	02-spl3	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
013	CRYO PWR RTN	TWISTED W/ PIN 5		CPC P1	06	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
014	CRYO PWR RTN	TWISTED W/ PIN 6		CPC P1	06-spl1	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
015	CRYO PWR RTN	TWISTED W/ PIN 7		CPC P1	06-spl2	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
016	CRYO PWR RTN	TWISTED W/ PIN 8		CPC P1	06-spl3	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
017	CRYO PWR RTN	TWISTED W/ PIN 9		CPC P1	07	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
018	CRYO PWR RTN	TWISTED W/ PIN 10		CPC P1	07-spl1	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
019	CRYO PWR RTN	TWISTED W/ PIN 11		CPC P1	07-spl2	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
020	CRYO PWR RTN	TWISTED W/ PIN 12		CPC P1	07-spl3	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
021	FSE PWR	TWISTED W/ PIN 23		FSE P1	01	FSE PWR	22	TPJ	M27500/-22-SE-2-U-14
022	FSE PWR	TWISTED W/ PIN 24		FSE P1	01-spl1	FSE PWR	22	TPJ	M27500/-22-SE-2-U-14
023	FSE PWR RTN	TWISTED W/ PIN 21		FSE P1	03	FSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
024	FSE PWR RTN	TWISTED W/ PIN 22		FSE P1	03-spl1	FSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
025	SUN PRESENCE OUT	TWISTED W/ PIN 26	PIN 98	FSE P1	17	SUN PRESENCE OUTPUT	24	TPSJ	M27500/-24-SE-2-S-14
026	SIG RTN	TWISTED W/ PIN 25	PIN 98	FSE P1	05	SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
027	SENSITIVITY CNTL	TWISTED W/ PIN 28		FSE P1	22	SENSITIVITY CNTL	22	TPJ	M27500/-22-SE-2-U-14
028	SENSITIVITY CNTL RTN	TWISTED W/ PIN 27		FSE P1	25	CHASSIS GND	22	TPJ	M27500/-22-SE-2-U-14
029	TLMA FSE VOLT MON	TWISTED W/ PIN 30	PIN 99	FSE P1	12	VOLTAGE MON	24	TPSJ	M27500/-24-SE-2-S-14
030	SIG RTN	TWISTED W/ PIN 29	PIN 99	N/C	N/C		24	TPSJ	M27500/-24-SE-2-S-14
031	FSE SERIAL DAT - CLK		PIN 100	FSE P1	06	CLOCK	24	SCSJ	M27500/-24-SE-1-S-14
032	FSE SERIAL DAT - ENA		PIN 100	FSE P1	08	ENA GATE	24	SCSJ	M27500/-24-SE-1-S-14
033	FSE SERIAL DAT - OUT		PIN 100	FSE P1	13	SERIAL OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
034	SIN OUTPUT		PIN 99	FSE P1	23	SIN OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
035	COS OUTPUT		PIN 99	FSE P1	24	COS OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
036	FSE HTR PWR	TWISTED W/ PIN 38		FSE ICP1	A	FSE HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
037	FSE HTR PWR	TWISTED W/ PIN 39		FSE ICP1	D	FSE HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
038	FSE HTR PWR RTN	TWISTED W/ PIN 36		FSE ICP1	C	FSE HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
039	FSE HTR PWR RTN	TWISTED W/ PIN 37		FSE ICP1	B	FSE HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
040	FSE AD590 +	TWISTED W/ PIN 41	PIN 99	FSE ICP2	A	FSE AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
041	FSE AD590 -	TWISTED W/ PIN 40	PIN 99	FSE ICP2	B	FSE AD590 -	24	TPSJ	M27500/-24-SE-2-S-14
042	POS1 +28V PWR	TWISTED W/ PIN 44		XSW P4	1	POS1 28V PWR	22	SCJ	M27500/-22-SE-1-U-14
043	POS2 +28V PWR	TWISTED W/ PIN 45		XSW P4	2	POS2 28V PWR	22	SCJ	M27500/-22-SE-1-U-14
044	28V PWR RTN	TWISTED W/ PIN 42		XSW P4	3	28V PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
045	28V PWR RTN	TWISTED W/ PIN 43		XSW P4	3-spl1	28V PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
046	POS1 IND	TWISTED W/ PIN 47	PIN 98	XSW P4	4	POS1 IND	24	TPSJ	M27500/-24-SE-2-S-14
047	POS1 IND RTN	TWISTED W/ PIN 46	PIN 98	XSW P4	6	POS IND RTN	24	TPSJ	M27500/-24-SE-2-S-14
048	S/W 1 PWR CKT 1/2	TWISTED W/ PIN 50		SW1 J1	03	CKT 1/2 PWR	22	TPJ	M27500/-22-SE-2-U-14
049	S/W 1 PWR CKT 1/2	TWISTED W/ PIN 51		SW1 J1	11	CKT 1/2 PWR	22	TPJ	M27500/-22-SE-2-U-14
050	S/W 1 PWR CKT 1/2 RTN	TWISTED W/ PIN 48		SW1 J1	01	CKT 1/2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14

051	S/W 1 PWR CKT 1/2 RTN	TWISTED W/ PIN 49		SW1 J1	09	CKT 1/2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
052	DAMPER 1 HTR	TWISTED W/ PIN 53		SW1 J1	06	DAMPER HTR	22	TPJ	M27500/-22-SE-2-U-14
053	DAMPER 1 HTR RTN	TWISTED W/ PIN 52		SW1 J1	13	DAMPER HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
054	SUN SENSOR 1	TWISTED W/ PIN 55	PIN 99	SW1 J1	07	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
055	SUN SENSOR 1 RTN	TWISTED W/ PIN 54	PIN 99	SW1 J1	15	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
056	S/W 4 PWR CKT 1/2	TWISTED W/ PIN 58		SW4 J1	03	CKT 1/2 PWR	22	TPJ	M27500/-22-SE-2-U-14
057	S/W 4 PWR CKT 1/2	TWISTED W/ PIN 59		SW4 J1	11	CKT 1/2 PWR	22	TPJ	M27500/-22-SE-2-U-14
058	S/W 4 PWR CKT 1/2 RTN	TWISTED W/ PIN 56		SW4 J1	01	CKT 1/2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
059	S/W 4 PWR CKT 1/2 RTN	TWISTED W/ PIN 57		SW4 J1	09	CKT 1/2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
060	DAMPER 4 HTR	TWISTED W/ PIN 61		SW4 J1	06	DAMPER HTR	22	TPJ	M27500/-22-SE-2-U-14
061	DAMPER 4 HTR RTN	TWISTED W/ PIN 60		SW4 J1	13	DAMPER HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
062	SUN SENSOR 1	TWISTED W/ PIN 63	PIN 99	SW4 J1	07	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
063	SUN SENSOR 1 RTN	TWISTED W/ PIN 62	PIN 99	SW4 J1	15	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
064	S/W 4 PWR CKT 3/4	TWISTED W/ PIN 66		SW4 J2	03	CKT 3/4 PWR	22	TPJ	M27500/-22-SE-2-U-14
065	S/W 4 PWR CKT 3/4	TWISTED W/ PIN 67		SW4 J2	11	CKT 3/4 PWR	22	TPJ	M27500/-22-SE-2-U-14
066	S/W 4 PWR CKT 3/4 RTN	TWISTED W/ PIN 64		SW4 J2	01	CKT 3/4 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
067	S/W 4 PWR CKT 3/4 RTN	TWISTED W/ PIN 65		SW4 J2	09	CKT 3/4 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
068	TEMP SENSOR 1	TWISTED W/ PIN 69	PIN 100	SW4 J2	06	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
069	TEMP SENSOR 1 RTN	TWISTED W/ PIN 68	PIN 100	SW4 J2	13	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
070	SUN SENSOR 2	TWISTED W/ PIN 71	PIN 99	SW4 J2	07	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
071	SUN SENSOR 2 RTN	TWISTED W/ PIN 70	PIN 99	SW4 J2	15	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
072	S/W 3 PWR CKT 3/4	TWISTED W/ PIN 74		SW3 J2	03	CKT 3/4 PWR	22	TPJ	M27500/-22-SE-2-U-14
073	S/W 3 PWR CKT 3/4	TWISTED W/ PIN 75		SW3 J2	11	CKT 3/4 PWR	22	TPJ	M27500/-22-SE-2-U-14
074	S/W 3 PWR CKT 3/4 RTN	TWISTED W/ PIN 72		SW3 J2	01	CKT 3/4 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
075	S/W 3 PWR CKT 3/4 RTN	TWISTED W/ PIN 73		SW3 J2	09	CKT 3/4 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
076	TEMP SENSOR 1	TWISTED W/ PIN 77	PIN 100	SW3 J2	06	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
077	TEMP SENSOR 1 RTN	TWISTED W/ PIN 76	PIN 100	SW3 J2	13	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
078	SUN SENSOR 2	TWISTED W/ PIN 79	PIN 99	SW3 J2	07	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
079	SUN SENSOR 2 RTN	TWISTED W/ PIN 78	PIN 99	SW3 J2	15	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
080	- X UP PRI	TWISTED W/ PIN 81		FPC P2	2	- X UP PRI	22	TPJ	M27500/-22-SE-2-U-14
081	- X UP PRI RTN	TWISTED W/ PIN 80		FPC P2	9	- X UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
082	- X UP SEC	TWISTED W/ PIN 83		FPC P2	7	- X UP SEC	22	TPJ	M27500/-22-SE-2-U-14
083	- X UP SEC RTN	TWISTED W/ PIN 82		FPC P2	5	- X UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
084	- Y UP PRI	TWISTED W/ PIN 85		FPC P4	2	- Y UP PRI	22	TPJ	M27500/-22-SE-2-U-14
085	- Y UP PRI RTN	TWISTED W/ PIN 84		FPC P4	9	- Y UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
086	- Y UP SEC	TWISTED W/ PIN 87		FPC P4	7	- Y UP SEC	22	TPJ	M27500/-22-SE-2-U-14
087	- Y UP SEC RTN	TWISTED W/ PIN 86		FPC P4	5	- Y UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
088	- X LO PRI	TWISTED W/ PIN 89		FPC P6	2	- X LO PRI	22	TPJ	M27500/-22-SE-2-U-14
089	- X LO PRI RTN	TWISTED W/ PIN 88		FPC P6	9	- X LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
090	- X LO SEC	TWISTED W/ PIN 91		FPC P6	7	- X LO SEC	22	TPJ	M27500/-22-SE-2-U-14
091	- X LO SEC RTN	TWISTED W/ PIN 90		FPC P6	5	- X LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
092	- Y LO PRI	TWISTED W/ PIN 93		FPC P8	2	- Y LO PRI	22	TPJ	M27500/-22-SE-2-U-14
093	- Y LO PRI RTN	TWISTED W/ PIN 92		FPC P8	9	- Y LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
094	- Y LO SEC	TWISTED W/ PIN 95		FPC P8	7	- Y LO SEC	22	TPJ	M27500/-22-SE-2-U-14
095	- Y LO SEC RTN	TWISTED W/ PIN 94		FPC P8	5	- Y LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
096	SPARE			N/C	N/C				
097	SPARE			N/C	N/C				
098	SHLD	SHLD CARRY THRU		N/C	N/C				
099	SHLD	SHLD CARRY THRU		N/C	N/C				
100	SHLD	SHLD CARRY THRU		N/C	N/C				

FJC J3

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27497T22F35SB
Connector MIL-C No	MS27497T22F35SB
MIL-C Pin No	M39029/57-354
Backshell Part No	NLS-FCT-22N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
001	SSR PWR	TWISTED W/ PIN 5		SSR P1	01	+28V PWR	22	TPJ	M27500/-22-SE-2-U-14
002	SSR PWR	TWISTED W/ PIN 6		SSR P1	02	+28V PWR	22	TPJ	M27500/-22-SE-2-U-14
003	SPARE			N/C	N/C				
004	SPARE			N/C	N/C				
005	SSR PWR RTN	TWISTED W/ PIN 1		SSR P1	06	+28V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
006	SSR PWR RTN	TWISTED W/ PIN 2		SSR P1	07	+28V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
007	SPARE			N/C	N/C				
008	+ 5V TLM	TWISTED W/ PIN 9	PIN 90	SSR P2	02	+5V TLM	24	TPSJ	M27500/-24-SE-2-S-14
009	AGND	TWISTED W/ PIN 8	PIN 90	N/C	N/C		24	TPSJ	M27500/-24-SE-2-S-14
010	+ 3.3V TLM	TWISTED W/ PIN 11	PIN 90	SSR P2	04	+3.3V TLM	24	TPSJ	M27500/-24-SE-2-S-14
011	AGND	TWISTED W/ PIN 10	PIN 90	N/C	N/C		24	TPSJ	M27500/-24-SE-2-S-14
012	SSR TEMP	TWISTED W/ PIN 13	PIN 99	SSR P2	05	AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
013	SSR TEMP RTN	TWISTED W/ PIN 12	PIN 99	SSR P2	09	AD590 -	24	TPSJ	M27500/-24-SE-2-S-14
014	SPARE			N/C	N/C				
015	SPARE			N/C	N/C				
016	SSR TX CMD CLK HI	TWISTED W/ PIN 17	PIN 84	SSR P3	01	CMD CLK	24	TPSJ	M27500/-24-SE-2-S-14
017	SSR TX CMD CLK LO	TWISTED W/ PIN 16	PIN 84	SSR P3	16	CMD CLK RTN	24	TPSJ	M27500/-24-SE-2-S-14
018	SSR TX CMD VAL HI	TWISTED W/ PIN 19	PIN 84	SSR P3	03	CMD VALID	24	TPSJ	M27500/-24-SE-2-S-14
019	SSR TX CMD VAL LO	TWISTED W/ PIN 18	PIN 84	SSR P3	18	CMD VALID RTN	24	TPSJ	M27500/-24-SE-2-S-14
020	SSR TX CMD DAT HI	TWISTED W/ PIN 21	PIN 84	SSR P3	04	CMD DATA	24	TPSJ	M27500/-24-SE-2-S-14
021	SSR TX CMD DAT LO	TWISTED W/ PIN 20	PIN 84	SSR P3	19	CMD DATA RTN	24	TPSJ	M27500/-24-SE-2-S-14
022	SPARE			N/C	N/C				
023	SSR REC CLK HI	TWISTED W/ PIN 24	PIN 77	SSR P3	05	REC CLK	24	TPSJ	M27500/-24-SE-2-S-14
024	SSR REC CLK LO	TWISTED W/ PIN 23	PIN 77	SSR P3	20	REC CLK RTN	24	TPSJ	M27500/-24-SE-2-S-14
025	SPARE			N/C	N/C				
026	SSR REC VAL HI	TWISTED W/ PIN 27	PIN 77	SSR P3	06	REC VALID	24	TPSJ	M27500/-24-SE-2-S-14
027	SSR REC VAL LO	TWISTED W/ PIN 26	PIN 77	SSR P3	21	REC VALID RTN	24	TPSJ	M27500/-24-SE-2-S-14
028	SPARE			N/C	N/C				
029	SSR REC READY HI	TWISTED W/ PIN 30	PIN 85	SSR P3	37	RECDR READY	24	TPSJ	M27500/-24-SE-2-S-14
030	SSR REC READY LO	TWISTED W/ PIN 29	PIN 85	SSR P3	38	RECRD READY RTN	24	TPSJ	M27500/-24-SE-2-S-14
031	SPARE			N/C	N/C				
032	SSR CMD RDY FLAG HI	TWISTED W/ PIN 33	PIN 85	SSR P3	39	CMD READY	24	TPSJ	M27500/-24-SE-2-S-14
033	SSR CMD RDY FLAG LO	TWISTED W/ PIN 32	PIN 85	SSR P3	40	CMD READY RTN	24	TPSJ	M27500/-24-SE-2-S-14
034	SPARE			N/C	N/C				
035	SSR REC DAT 7 HI	TWISTED W/ PIN 36	PIN 77	SSR P3	09	REC DAT7	24	TPSJ	M27500/-24-SE-2-S-14
036	SSR REC DAT 7 LO	TWISTED W/ PIN 35	PIN 77	SSR P3	24	REC DAT7 RTN	24	TPSJ	M27500/-24-SE-2-S-14
037	SSR REC DAT 6 HI	TWISTED W/ PIN 38	PIN 77	SSR P3	10	REC DAT6	24	TPSJ	M27500/-24-SE-2-S-14
038	SSR REC DAT 6 LO	TWISTED W/ PIN 37	PIN 77	SSR P3	25	REC DAT6 RTN	24	TPSJ	M27500/-24-SE-2-S-14
039	SSR REC DAT 5 HI	TWISTED W/ PIN 40	PIN 77	SSR P3	11	REC DAT5	24	TPSJ	M27500/-24-SE-2-S-14
040	SSR REC DAT 5 LO	TWISTED W/ PIN 39	PIN 77	SSR P3	26	REC DAT5 RTN	24	TPSJ	M27500/-24-SE-2-S-14
041	SSR REC DAT 4 HI	TWISTED W/ PIN 42	PIN 77	SSR P3	27	REC DAT4	24	TPSJ	M27500/-24-SE-2-S-14
042	SSR REC DAT 4 LO	TWISTED W/ PIN 41	PIN 77	SSR P3	12	REC DAT4 RTN	24	TPSJ	M27500/-24-SE-2-S-14
043	SSR REC DAT 3 HI	TWISTED W/ PIN 44	PIN 77	SSR P3	13	REC DAT3	24	TPSJ	M27500/-24-SE-2-S-14
044	SSR REC DAT 3 LO	TWISTED W/ PIN 43	PIN 77	SSR P3	28	REC DAT3 RTN	24	TPSJ	M27500/-24-SE-2-S-14
045	SPARE			N/C	N/C				
046	SPARE			N/C	N/C				
047	SPARE			N/C	N/C				
048	SSR REC DAT 2 HI	TWISTED W/ PIN 49	PIN 77	SSR P3	15	REC DAT2	24	TPSJ	M27500/-24-SE-2-S-14
049	SSR REC DAT 2 LO	TWISTED W/ PIN 48	PIN 77	SSR P3	30	REC DAT2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
050	SSR REC DAT 1 HI	TWISTED W/ PIN 51	PIN 77	SSR P3	33	REC DAT1	24	TPSJ	M27500/-24-SE-2-S-14

051	SSR REC DAT 1 LO	TWISTED W/ PIN 50	PIN 77	SSR P3	34	REC DAT1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
052	SSR REC DAT 0 HI	TWISTED W/ PIN 53	PIN 77	SSR P3	35	REC DAT0	24	TPSJ	M27500/-24-SE-2-S-14
053	SSR REC DAT 0 LO	TWISTED W/ PIN 52	PIN 77	SSR P3	36	REC DAT0 RTN	24	TPSJ	M27500/-24-SE-2-S-14
054	DGND			SSR P3	02	DGND	24	SCJ	M27500/-24-SE-1-U-14
055	DGND			SSR P3	17	DGND	24	SCJ	M27500/-24-SE-1-U-14
056	SSR TLM CLK HI	TWISTED W/ PIN 57	PIN 84	SSR P4	01	TLM CLK	24	TPSJ	M27500/-24-SE-2-S-14
057	SSR TLM CLK LO	TWISTED W/ PIN 56	PIN 84	SSR P4	16	TLM CLK RTN	24	TPSJ	M27500/-24-SE-2-S-14
058	SSR TLM VAL HI	TWISTED W/ PIN 59	PIN 100	SSR P4	03	RECDR TLM VALID	24	TPSJ	M27500/-24-SE-2-S-14
059	SSR TLM VAL LO	TWISTED W/ PIN 58	PIN 100	SSR P4	18	RECDR TLM VALID RTN	24	TPSJ	M27500/-24-SE-2-S-14
060	SSR TLM DAT HI	TWISTED W/ PIN 61	PIN 100	SSR P4	04	RECDR TLM DATA	24	TPSJ	M27500/-24-SE-2-S-14
061	SSR TLM DAT LO	TWISTED W/ PIN 60	PIN 100	SSR P4	19	RECDR TLM DATA RTN	24	TPSJ	M27500/-24-SE-2-S-14
062	DGND			SSR P4	17	DGND	24	SCJ	M27500/-24-SE-1-U-14
063	SSR PLYBK CLK HI	TWISTED W/ PIN 64	PIN 100	SSR P4	05	RECDR PLYBK CLK	24	TPSJ	M27500/-24-SE-2-S-14
064	SSR PLYBK CLK LO	TWISTED W/ PIN 63	PIN 100	SSR P4	20	RECDR PLYBK CLK RTN	24	TPSJ	M27500/-24-SE-2-S-14
065	SSR PLYBK VAL HI	TWISTED W/ PIN 66	PIN 100	SSR P4	06	RECDR PLYBK VALID	24	TPSJ	M27500/-24-SE-2-S-14
066	SSR PLYBK VAL LO	TWISTED W/ PIN 65	PIN 100	SSR P4	21	RECDR PLYBK VALID RTN	24	TPSJ	M27500/-24-SE-2-S-14
067	SSR PLYBK DAT 7 HI	TWISTED W/ PIN 68	PIN 100	SSR P4	07	RECDR PLYBK DAT7	24	TPSJ	M27500/-24-SE-2-S-14
068	SSR PLYBK DAT 7 LO	TWISTED W/ PIN 67	PIN 100	SSR P4	22	RECDR PLYBK DAT7 RTN	24	TPSJ	M27500/-24-SE-2-S-14
069	SSR PLYBK DAT 6 HI	TWISTED W/ PIN 70	PIN 100	SSR P4	09	RECDR PLYBK DAT6	24	TPSJ	M27500/-24-SE-2-S-14
070	SSR PLYBK DAT 6 LO	TWISTED W/ PIN 69	PIN 100	SSR P4	24	RECDR PLYBK DAT6 RTN	24	TPSJ	M27500/-24-SE-2-S-14
071	SSR PLYBK DAT 5 HI	TWISTED W/ PIN 72	PIN 100	SSR P4	10	RECDR PLYBK DAT5	24	TPSJ	M27500/-24-SE-2-S-14
072	SSR PLYBK DAT 5 LO	TWISTED W/ PIN 71	PIN 100	SSR P4	25	RECDR PLYBK DAT5 RTN	24	TPSJ	M27500/-24-SE-2-S-14
073	SSR PLYBK DAT 4 HI	TWISTED W/ PIN 74	PIN 100	SSR P4	11	RECDR PLYBK DAT4	24	TPSJ	M27500/-24-SE-2-S-14
074	SSR PLYBK DAT 4 LO	TWISTED W/ PIN 73	PIN 100	SSR P4	26	RECDR PLYBK DAT4 RTN	24	TPSJ	M27500/-24-SE-2-S-14
075	SSR PLYBK DAT 3 HI	TWISTED W/ PIN 76	PIN 100	SSR P4	12	RECDR PLYBK DAT3	24	TPSJ	M27500/-24-SE-2-S-14
076	SSR PLYBK DAT 3 LO	TWISTED W/ PIN 75	PIN 100	SSR P4	27	RECDR PLYBK DAT3 RTN	24	TPSJ	M27500/-24-SE-2-S-14
077	SHLD	SHLD CARRY THRU		N/C	N/C				
078	SSR PLYBK DAT 2 HI	TWISTED W/ PIN 79	PIN 100	SSR P4	13	RECDR PLYBK DAT2	24	TPSJ	M27500/-24-SE-2-S-14
079	SSR PLYBK DAT 2 LO	TWISTED W/ PIN 78	PIN 100	SSR P4	28	RECDR PLYBK DAT2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
080	SSR PLYBK DAT 1 HI	TWISTED W/ PIN 81	PIN 100	SSR P4	15	RECDR PLYBK DAT1	24	TPSJ	M27500/-24-SE-2-S-14
081	SSR PLYBK DAT 1 LO	TWISTED W/ PIN 80	PIN 100	SSR P4	30	RECDR PLYBK DAT1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
082	SSR PLYBK DAT 0 HI	TWISTED W/ PIN 83	PIN 100	SSR P4	33	RECDR PLYBK DAT0	24	TPSJ	M27500/-24-SE-2-S-14
083	SSR PLYBK DAT 0 LO	TWISTED W/ PIN 82	PIN 100	SSR P4	34	RECDR PLYBK DAT0 RTN	24	TPSJ	M27500/-24-SE-2-S-14
084	SHLD	SHLD CARRY THRU		N/C	N/C				
085	SHLD	SHLD CARRY THRU		N/C	N/C				
086	SSR PLYBK CLK HI	TWISTED W/ PIN 87	PIN 94	SSR P4	35	PLYBK CLK	24	TPSJ	M27500/-24-SE-2-S-14
087	SSR PLYBK CLK LO	TWISTED W/ PIN 86	PIN 94	SSR P4	36	PLYBK CLK RTN	24	TPSJ	M27500/-24-SE-2-S-14
088	SSR PLYBK RDY HI	TWISTED W/ PIN 89	PIN 94	SSR P4	37	PLYBK RDY	24	TPSJ	M27500/-24-SE-2-S-14
089	SSR PLYBK RDY LO	TWISTED W/ PIN 88	PIN 94	SSR P4	38	PLYBK RDY RTN	24	TPSJ	M27500/-24-SE-2-S-14
090	SHLD	SHLD CARRY THRU		N/C	N/C				
091	DGND			SSR P4	08	DGND	24	SCJ	M27500/-24-SE-1-U-14
092	DGND			SSR P4	23	DGND	24	SCJ	M27500/-24-SE-1-U-14
093	DGND			SSR P4	02	DGND	24	SCJ	M27500/-24-SE-1-U-14
094	SHLD	SHLD CARRY THRU		N/C	N/C				
095	SSR HTR PWR	TWISTED W/ PIN 96		SSR ICP1	A	SSR HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
096	SSR HTR PWR RTN	TWISTED W/ PIN 95		SSR ICP1	C	SSR HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
097	SSR HTR PWR	TWISTED W/ PIN 98		SSR ICP1	D	SSR HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
098	SSR HTR PWR RTN	TWISTED W/ PIN 97		SSR ICP1	B	SSR HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
099	SHLD	SHLD CARRY THRU		N/C	N/C				
100	SHLD	SHLD CARRY THRU		N/C	N/C				

FJC P1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27484T22F35P
Connector MIL-C No	MS27484T22F35P
MIL-C Pin No	M39029/58-360
Backshell Part No	NLS-SCT-22N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
001	IDPU HTR PWR	TWISTED W/ PIN 4		PCB P3	44	IDPU HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
002	IDPU HTR PWR	TWISTED W/ PIN 5		PCB P3	45	IDPU HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
003	SPARE			N/C	N/C				
004	IDPU HTR PWR RTN	TWISTED W/ PIN 1		PCB P3	64	IDPU HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
005	IDPU HTR PWR RTN	TWISTED W/ PIN 2		PCB P3	65	IDPU HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
006	SPARE			N/C	N/C				
007	SPARE			N/C	N/C				
008	IDPU PWR	TWISTED W/ PIN 11		PCB P1	12	IDPU PWR	22	TPJ	M27500/-22-SE-2-U-14
009	IDPU PWR	TWISTED W/ PIN 12		PCB P1	30	IDPU PWR	22	TPJ	M27500/-22-SE-2-U-14
010	SPARE			N/C	N/C				
011	IDPU PWR RTN	TWISTED W/ PIN 8		PCB P1	10	IDPU PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
012	IDPU PWR RTN	TWISTED W/ PIN 9		PCB P1	29	IDPU PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
013	SPARE			N/C	N/C				
014	SPARE			N/C	N/C				
015	SPARE			N/C	N/C				
016	IDPU SW PWR	TWISTED W/ PIN 19		PCB P1	14	IDPU SW PWR	22	TPJ	M27500/-22-SE-2-U-14
017	IDPU SW PWR	TWISTED W/ PIN 20		PCB P1	32	IDPU SW PWR	22	TPJ	M27500/-22-SE-2-U-14
018	SPARE			N/C	N/C				
019	IDPU SW PWR RTN	TWISTED W/ PIN 16		PCB P1	13	IDPU SW PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
020	IDPU SW PWR RTN	TWISTED W/ PIN 17		PCB P1	31	IDPU SW PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
021	MLI AD590 +	TWISTED W/ PIN 24	PIN 100	PACI P2	014	AD590 IN12	24	TPSJ	M27500/-24-SE-2-S-14
022	IPC TEMP	TWISTED W/ PIN 23	PIN 100	PACI P2	016	AD590 IN14	24	TPSJ	M27500/-24-SE-2-S-14
023	IPC TEMP RTN	TWISTED W/ PIN 22	PIN 100	PACI P2	042	AD590 EXC14	24	TPSJ	M27500/-24-SE-2-S-14
024	MLI AD590 -	TWISTED W/ PIN 21	PIN 100	PACI P2	040	AD590 EXC12	24	TPSJ	M27500/-24-SE-2-S-14
025	MAG +15V PWR	TWISTED W/ PIN 30		PCB P3	46	+15V REG VME PWR	22	TPJ	M27500/-22-SE-2-U-14
026	MAG +15V PWR	TWISTED W/ PIN 31		PCB P3	47	+15V REG VME PWR	22	TPJ	M27500/-22-SE-2-U-14
027	MAG -15V PWR	TWISTED W/ PIN 32		PCB P3	48	-15V REG VME PWR	22	TPJ	M27500/-22-SE-2-U-14
028	MAG -15V PWR	TWISTED W/ PIN 33		PCB P3	49	-15V REG VME PWR	22	TPJ	M27500/-22-SE-2-U-14
029	SPARE			N/C	N/C				
030	MAG +15V PWR RTN	TWISTED W/ PIN 25		PCB P3	66	+15V REG VME PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
031	MAG +15V PWR RTN	TWISTED W/ PIN 26		PCB P3	67	+15V REG VME PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
032	MAG -15V PWR RTN	TWISTED W/ PIN 27		PCB P3	68	-15V REG VME PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
033	MAG -15V PWR RTN	TWISTED W/ PIN 28		PCB P3	69	-15V REG VME PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
034	SPARE			N/C	N/C				
035	TLMA MAG TEMP	TWISTED W/ PIN 36	PIN 98	PACI P2	068	GP ANALOG CH14	24	TPSJ	M27500/-24-SE-2-S-14
036	SIG RTN	TWISTED W/ PIN 35	PIN 98	PACI P2	090	AGND	24	TPSJ	M27500/-24-SE-2-S-14
037	TLMA MAG Y OUTPUT		PIN 98	PACI P2	060	GP ANALOG CH7	24	SCSJ	M27500/-24-SE-1-S-14
038	TLMA MAG X OUTPUT		PIN 98	PACI P2	058	GP ANALOG CH5	24	SCSJ	M27500/-24-SE-1-S-14
039	TLMA MAG Z OUTPUT		PIN 98	PACI P2	059	GP ANALOG CH6	24	SCSJ	M27500/-24-SE-1-S-14
040	SPARE			N/C	N/C				
041	S/W 1 PWR CKT 3/4	TWISTED W/ PIN 44		CCB P1	59	WING1 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
042	S/W 1 PWR CKT 3/4	TWISTED W/ PIN 45		CCB P1	60	WING1 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
043	SPARE			N/C	N/C				
044	S/W 1 PWR CKT 3/4 RTN	TWISTED W/ PIN 41		CCB P1	03	WING1 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
045	S/W 1 PWR CKT 3/4 RTN	TWISTED W/ PIN 42		CCB P1	04	WING1 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
046	TEMP SENSOR 1	TWISTED W/ PIN 47	PIN 99	PACI P3	092	PRT EXC2	24	TPSJ	M27500/-24-SE-2-S-14
047	TEMP SENSOR 1 RTN	TWISTED W/ PIN 46	PIN 99	PACI P3	082	PRT IN2	24	TPSJ	M27500/-24-SE-2-S-14
048	SUN SENSOR 2	TWISTED W/ PIN 49	PIN 100	PACI P2	075	ASUNSEN IN2	24	TPSJ	M27500/-24-SE-2-S-14
049	SUN SENSOR 2 RTN	TWISTED W/ PIN 48	PIN 100	PACI P2	076	ASUNSEN RTN2	24	TPSJ	M27500/-24-SE-2-S-14
050	SPARE			N/C	N/C				

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051	S/W 2 PWR CKT 1/2	TWISTED W/ PIN 54		CCB P1	61	WING2 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
052	S/W 2 PWR CKT 1/2	TWISTED W/ PIN 55		CCB P1	62	WING2 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
053	SPARE			N/C	N/C				
054	S/W 2 PWR CKT 1/2 RTN	TWISTED W/ PIN 51		CCB P1	05	WING2 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
055	S/W 2 PWR CKT 1/2 RTN	TWISTED W/ PIN 52		CCB P1	22	WING2 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
056	DAMPER 2 HTR	TWISTED W/ PIN 57		PCB P3	18	DAMPER 2/3 HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
057	DAMPER 2 HTR RTN	TWISTED W/ PIN 56		PCB P3	38	DAMPER 2/3 HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
058	SUN SENSOR 1	TWISTED W/ PIN 59	PIN 100	PACI P2	077	ASUNSEN IN3	24	TPSJ	M27500/-24-SE-2-S-14
059	SUN SENSOR 1 RTN	TWISTED W/ PIN 58	PIN 100	PACI P2	078	ASUNSEN RTN3	24	TPSJ	M27500/-24-SE-2-S-14
060	SPARE			N/C	N/C				
061	S/W 2 PWR CKT 3/4	TWISTED W/ PIN 64		CCB P1	20	WING2 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
062	S/W 2 PWR CKT 3/4	TWISTED W/ PIN 65		CCB P1	21	WING2 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
063	SPARE			N/C	N/C				
064	S/W 2 PWR CKT 3/4 RTN	TWISTED W/ PIN 61		CCB P1	23	WING2 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
065	S/W 2 PWR CKT 3/4 RTN	TWISTED W/ PIN 62		CCB P1	24	WING2 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
066	SPARE			N/C	N/C				
067	TEMP SENSOR 1	TWISTED W/ PIN 68	PIN 99	PACI P3	093	PRT EXC3	24	TPSJ	M27500/-24-SE-2-S-14
068	TEMP SENSOR 1 RTN	TWISTED W/ PIN 67	PIN 99	PACI P3	083	PRT IN3	24	TPSJ	M27500/-24-SE-2-S-14
069	SUN SENSOR 2	TWISTED W/ PIN 70	PIN 100	PACI P2	079	ASUNSEN IN4	24	TPSJ	M27500/-24-SE-2-S-14
070	SUN SENSOR 2 RTN	TWISTED W/ PIN 69	PIN 100	PACI P2	080	ASUNSEN RTN4	24	TPSJ	M27500/-24-SE-2-S-14
071	SPARE			N/C	N/C				
072	S/W 3 PWR CKT 1/2	TWISTED W/ PIN 75		CCB P1	18	WING3 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
073	S/W 3 PWR CKT 1/2	TWISTED W/ PIN 76		CCB P1	19	WING3 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
074	SPARE			N/C	N/C				
075	S/W 3 PWR CKT 1/2 RTN	TWISTED W/ PIN 72		CCB P1	25	WING3 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
076	S/W 3 PWR CKT 1/2 RTN	TWISTED W/ PIN 73		CCB P1	26	WING3 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
077	DAMPER 3 HTR	TWISTED W/ PIN 78		PCB P3	18-spl1	DAMPER 2/3 HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
078	DAMPER 3 HTR RTN	TWISTED W/ PIN 77		PCB P3	38-spl1	DAMPER 2/3 HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
079	SUN SENSOR 1	TWISTED W/ PIN 80	PIN 100	PACI P2	083	ASUNSEN IN5	24	TPSJ	M27500/-24-SE-2-S-14
080	SUN SENSOR 1 RTN	TWISTED W/ PIN 79	PIN 100	PACI P2	084	ASUNSEN RTN5	24	TPSJ	M27500/-24-SE-2-S-14
081	SPARE			N/C	N/C				
082	+ X UP PRI	TWISTED W/ PIN 83		FEP J1	02	+ X UP PRI OUT	22	TPJ	M27500/-22-SE-2-U-14
083	+ X UP PRI RTN	TWISTED W/ PIN 82		ADB P1	35	+ X UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
084	+ X UP SEC	TWISTED W/ PIN 85		FEP J1	18	+ X UP SEC OUT	22	TPJ	M27500/-22-SE-2-U-14
085	+ X UP SEC RTN	TWISTED W/ PIN 84		ADB P1	05	+ X UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
086	+ Y UP PRI	TWISTED W/ PIN 87		FEP J1	06	+ Y UP PRI OUT	22	TPJ	M27500/-22-SE-2-U-14
087	+ Y UP PRI RTN	TWISTED W/ PIN 86		ADB P1	02	+ Y UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
088	+ Y UP SEC	TWISTED W/ PIN 89		FEP J1	22	+ Y UP SEC OUT	22	TPJ	M27500/-22-SE-2-U-14
089	+ Y UP SEC RTN	TWISTED W/ PIN 88		ADB P1	38	+ Y UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
090	+ X LO PRI	TWISTED W/ PIN 91		FEP J1	10	+ X LO PRI OUT	22	TPJ	M27500/-22-SE-2-U-14
091	+ X LO PRI RTN	TWISTED W/ PIN 90		ADB P1	18	+ X LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
092	+ X LO SEC	TWISTED W/ PIN 93		FEP J1	26	+ X LO SEC OUT	22	TPJ	M27500/-22-SE-2-U-14
093	+ X LO SEC RTN	TWISTED W/ PIN 92		ADB P1	03	+ X LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
094	+ Y LO PRI	TWISTED W/ PIN 95		FEP J1	14	+ Y LO PRI OUT	22	TPJ	M27500/-22-SE-2-U-14
095	+ Y LO PRI RTN	TWISTED W/ PIN 94		ADB P1	04	+ Y LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
096	+ Y LO SEC	TWISTED W/ PIN 97		FEP J1	32	+ Y LO SEC OUT	22	TPJ	M27500/-22-SE-2-U-14
097	+ Y LO SEC RTN	TWISTED W/ PIN 96		ADB P1	37	+ Y LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
098	SHLD	SHLD CARRY THRU		N/C	N/C				
099	SHLD	SHLD CARRY THRU		N/C	N/C				
100	SHLD	SHLD CARRY THRU		N/C	N/C				

FJC P2

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27484T22F35PA
Connector MIL-C No	MS27484T22F35PA
MIL-C Pin No	M39029/58-360
Backshell Part No	NLS-SCT-22N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
001	CPC TEMP SENSOR	TWISTED W/ PIN 2	PIN 99	PACI P2	017	AD590 IN15	24	TPSJ	M27500/-24-SE-2-S-14
002	CPC TEMP SENSOR RTN	TWISTED W/ PIN 1	PIN 99	PACI P2	043	AD590 EXC15	24	TPSJ	M27500/-24-SE-2-S-14
003	CPC TEMP SENSOR	TWISTED W/ PIN 4	PIN 99	PACI P2	018	AD590 IN16	24	TPSJ	M27500/-24-SE-2-S-14
004	CPC TEMP SENSOR RTN	TWISTED W/ PIN 3	PIN 99	PACI P2	044	AD590 EXC16	24	TPSJ	M27500/-24-SE-2-S-14
005	CRYO PWR	TWISTED W/ PIN 13		PCB P1	08	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
006	CRYO PWR	TWISTED W/ PIN 14		PCB P1	27	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
007	CRYO PWR	TWISTED W/ PIN 15		PCB P1	08-spl1	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
008	CRYO PWR	TWISTED W/ PIN 16		PCB P1	27-spl1	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
009	CRYO PWR	TWISTED W/ PIN 17		PCB P1	09	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
010	CRYO PWR	TWISTED W/ PIN 18		PCB P1	28	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
011	CRYO PWR	TWISTED W/ PIN 19		PCB P1	09-spl1	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
012	CRYO PWR	TWISTED W/ PIN 20		PCB P1	28-spl1	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
013	CRYO PWR RTN	TWISTED W/ PIN 5		PCB P1	06	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
014	CRYO PWR RTN	TWISTED W/ PIN 6		PCB P1	25	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
015	CRYO PWR RTN	TWISTED W/ PIN 7		PCB P1	06-spl1	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
016	CRYO PWR RTN	TWISTED W/ PIN 8		PCB P1	25-spl1	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
017	CRYO PWR RTN	TWISTED W/ PIN 9		PCB P1	07	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
018	CRYO PWR RTN	TWISTED W/ PIN 10		PCB P1	26	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
019	CRYO PWR RTN	TWISTED W/ PIN 11		PCB P1	07-spl1	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
020	CRYO PWR RTN	TWISTED W/ PIN 12		PCB P1	26-spl1	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
021	FSE PWR	TWISTED W/ PIN 23		PCB P3	03	FSE PWR	22	TPJ	M27500/-22-SE-2-U-14
022	FSE PWR	TWISTED W/ PIN 24		PCB P3	04	FSE PWR	22	TPJ	M27500/-22-SE-2-U-14
023	FSE PWR RTN	TWISTED W/ PIN 21		PCB P3	23	FSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
024	FSE PWR RTN	TWISTED W/ PIN 22		PCB P3	24	FSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
025	SUN PRESENCE OUT	TWISTED W/ PIN 26	PIN 98	PACI P1	003	DIG DIN1	24	TPSJ	M27500/-24-SE-2-S-14
026	SIG RTN	TWISTED W/ PIN 25	PIN 98	PACI P1	028	DGND	24	TPSJ	M27500/-24-SE-2-S-14
027	SENSITIVITY CNTL	TWISTED W/ PIN 28		TAC J1	J	SENSITIVITY CNTL	22	TPJ	M27500/-22-SE-2-U-14
028	SENSITIVITY CNTL RTN	TWISTED W/ PIN 27		TAC J1	K	SENSITIVITY CNTL RTN	22	TPJ	M27500/-22-SE-2-U-14
029	TLMA FSE VOLT MON	TWISTED W/ PIN 30	PIN 99	PACI P2	069	GP ANALOG CH15	24	TPSJ	M27500/-24-SE-2-S-14
030	SIG RTN	TWISTED W/ PIN 29	PIN 99	PACI P2	SHELL	CHASSIS GROUND	24	TPSJ	M27500/-24-SE-2-S-14
031	FSE SERIAL DAT - CLK		PIN 100	PACI P3	038	FSS CLK OUT	24	SCSJ	M27500/-24-SE-1-S-14
032	FSE SERIAL DAT - ENA		PIN 100	PACI P3	039	FSS ENA OUT	24	SCSJ	M27500/-24-SE-1-S-14
033	FSE SERIAL DAT - OUT		PIN 100	PACI P3	037	FSS DAT IN	24	SCSJ	M27500/-24-SE-1-S-14
034	SIN OUTPUT		PIN 99	PACI P2	054	GP ANALOG CH1	24	SCSJ	M27500/-24-SE-1-S-14
035	COS OUTPUT		PIN 99	PACI P2	055	GP ANALOG CH2	24	SCSJ	M27500/-24-SE-1-S-14
036	FSE HTR PWR	TWISTED W/ PIN 38		PCB P3	13	FSE HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
037	FSE HTR PWR	TWISTED W/ PIN 39		PCB P3	14	FSE HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
038	FSE HTR PWR RTN	TWISTED W/ PIN 36		PCB P3	33	FSE HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
039	FSE HTR PWR RTN	TWISTED W/ PIN 37		PCB P3	34	FSE HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
040	FSE AD590 +	TWISTED W/ PIN 41	PIN 99	PACI P2	003	AD590 IN1	24	TPSJ	M27500/-24-SE-2-S-14
041	FSE AD590 -	TWISTED W/ PIN 40	PIN 99	PACI P2	029	AD590 EXC1	24	TPSJ	M27500/-24-SE-2-S-14
042	POS1 +28V PWR	TWISTED W/ PIN 44		PCB P3	05	XMTR SW (FWD) PWR	22	TPJ	M27500/-22-SE-2-U-14
043	POS2 +28V PWR	TWISTED W/ PIN 45		PCB P3	06	XMTR SW (AFT) PWR	22	TPJ	M27500/-22-SE-2-U-14
044	28V PWR RTN	TWISTED W/ PIN 42		PCB P3	12	XMTR SW (FWD) RTN	22	TPJ	M27500/-22-SE-2-U-14
045	28V PWR RTN	TWISTED W/ PIN 43		PCB P3	31	XMTR SW (AFT) RTN	22	TPJ	M27500/-22-SE-2-U-14
046	POS1 IND	TWISTED W/ PIN 47	PIN 98	PACI P1	020	DGND	24	TPSJ	M27500/-24-SE-2-S-14
047	POS1 IND RTN	TWISTED W/ PIN 46	PIN 98	PACI P1	008	DIG DIN5	24	TPSJ	M27500/-24-SE-2-S-14
048	S/W 1 PWR CKT 1/2	TWISTED W/ PIN 50		CCB P1	57	WING1 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
049	S/W 1 PWR CKT 1/2	TWISTED W/ PIN 51		CCB P1	58	WING1 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
050	S/W 1 PWR CKT 1/2 RTN	TWISTED W/ PIN 48		CCB P1	01	WING1 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14

Thursday, January 13, 2000

051	S/W 1 PWR CKT 1/2 RTN	TWISTED W/ PIN 49		CCB P1	02	WING1 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
052	DAMPER 1 HTR	TWISTED W/ PIN 53		PCB P3	17	DAMPER 1/4 HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
053	DAMPER 1 HTR RTN	TWISTED W/ PIN 52		PCB P3	37	DAMPER 1/4 HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
054	SUN SENSOR 1	TWISTED W/ PIN 55	PIN 99	PACI P2	073	ASUNSEN IN1	24	TPSJ	M27500/-24-SE-2-S-14
055	SUN SENSOR 1 RTN	TWISTED W/ PIN 54	PIN 99	PACI P2	074	ASUNSEN RTN1	24	TPSJ	M27500/-24-SE-2-S-14
056	S/W 4 PWR CKT 1/2	TWISTED W/ PIN 58		CCB P1	14	WING4 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
057	S/W 4 PWR CKT 1/2	TWISTED W/ PIN 59		CCB P1	15	WING4 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
058	S/W 4 PWR CKT 1/2 RTN	TWISTED W/ PIN 56		CCB P1	44	WING4 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
059	S/W 4 PWR CKT 1/2 RTN	TWISTED W/ PIN 57		CCB P1	45	WING4 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
060	DAMPER 4 HTR	TWISTED W/ PIN 61		PCB P3	17-spl1	DAMPER 1/4 HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
061	DAMPER 4 HTR RTN	TWISTED W/ PIN 60		PCB P3	37-spl1	DAMPER 1/4 HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
062	SUN SENSOR 1	TWISTED W/ PIN 63	PIN 99	PACI P2	087	ASUNSEN IN7	24	TPSJ	M27500/-24-SE-2-S-14
063	SUN SENSOR 1 RTN	TWISTED W/ PIN 62	PIN 99	PACI P2	088	ASUNSEN RTN7	24	TPSJ	M27500/-24-SE-2-S-14
064	S/W 4 PWR CKT 3/4	TWISTED W/ PIN 66		CCB P1	12	WING4 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
065	S/W 4 PWR CKT 3/4	TWISTED W/ PIN 67		CCB P1	13	WING4 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
066	S/W 4 PWR CKT 3/4 RTN	TWISTED W/ PIN 64		CCB P1	46	WING4 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
067	S/W 4 PWR CKT 3/4 RTN	TWISTED W/ PIN 65		CCB P1	47	WING4 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
068	TEMP SENSOR 1	TWISTED W/ PIN 69	PIN 100	PACI P3	095	PRT EXC5	24	TPSJ	M27500/-24-SE-2-S-14
069	TEMP SENSOR 1 RTN	TWISTED W/ PIN 68	PIN 100	PACI P3	085	PRT IN5	24	TPSJ	M27500/-24-SE-2-S-14
070	SUN SENSOR 2	TWISTED W/ PIN 71	PIN 99	PACI P2	089	ASUNSEN IN8	24	TPSJ	M27500/-24-SE-2-S-14
071	SUN SENSOR 2 RTN	TWISTED W/ PIN 70	PIN 99	PACI P2	091	ASUNSEN RTN8	24	TPSJ	M27500/-24-SE-2-S-14
072	S/W 3 PWR CKT 3/4	TWISTED W/ PIN 74		CCB P1	16	WING3 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
073	S/W 3 PWR CKT 3/4	TWISTED W/ PIN 75		CCB P1	17	WING3 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
074	S/W 3 PWR CKT 3/4 RTN	TWISTED W/ PIN 72		CCB P1	27	WING3 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
075	S/W 3 PWR CKT 3/4 RTN	TWISTED W/ PIN 73		CCB P1	43	WING3 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
076	TEMP SENSOR 1	TWISTED W/ PIN 77	PIN 100	PACI P3	094	PRT EXC4	24	TPSJ	M27500/-24-SE-2-S-14
077	TEMP SENSOR 1 RTN	TWISTED W/ PIN 76	PIN 100	PACI P3	084	PRT IN4	24	TPSJ	M27500/-24-SE-2-S-14
078	SUN SENSOR 2	TWISTED W/ PIN 79	PIN 99	PACI P2	085	ASUNSEN IN6	24	TPSJ	M27500/-24-SE-2-S-14
079	SUN SENSOR 2 RTN	TWISTED W/ PIN 78	PIN 99	PACI P2	086	ASUNSEN RTN6	24	TPSJ	M27500/-24-SE-2-S-14
080	- X UP PRI	TWISTED W/ PIN 81		FEP J1	04	- X UP PRI OUT	22	TPJ	M27500/-22-SE-2-U-14
081	- X UP PRI RTN	TWISTED W/ PIN 80		ADB P1	34	- X UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
082	- X UP SEC	TWISTED W/ PIN 83		FEP J1	20	- X UP SEC OUT	22	TPJ	M27500/-22-SE-2-U-14
083	- X UP SEC RTN	TWISTED W/ PIN 82		ADB P1	22	- X UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
084	- Y UP PRI	TWISTED W/ PIN 85		FEP J1	08	- Y UP PRI OUT	22	TPJ	M27500/-22-SE-2-U-14
085	- Y UP PRI RTN	TWISTED W/ PIN 84		ADB P1	19	- Y UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
086	- Y UP SEC	TWISTED W/ PIN 87		FEP J1	24	- Y UP SEC OUT	22	TPJ	M27500/-22-SE-2-U-14
087	- Y UP SEC RTN	TWISTED W/ PIN 86		ADB P1	39	- Y UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
088	- X LO PRI	TWISTED W/ PIN 89		FEP J1	12	- X LO PRI OUT	22	TPJ	M27500/-22-SE-2-U-14
089	- X LO PRI RTN	TWISTED W/ PIN 88		ADB P1	01	- X LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
090	- X LO SEC	TWISTED W/ PIN 91		FEP J1	30	- X LO SEC OUT	22	TPJ	M27500/-22-SE-2-U-14
091	- X LO SEC RTN	TWISTED W/ PIN 90		ADB P1	20	- X LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
092	- Y LO PRI	TWISTED W/ PIN 93		FEP J1	16	- Y LO PRI OUT	22	TPJ	M27500/-22-SE-2-U-14
093	- Y LO PRI RTN	TWISTED W/ PIN 92		ADB P1	21	- Y LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14
094	- Y LO SEC	TWISTED W/ PIN 95		FEP J1	34	- Y LO SEC OUT	22	TPJ	M27500/-22-SE-2-U-14
095	- Y LO SEC RTN	TWISTED W/ PIN 94		ADB P1	36	- Y LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
096	SPARE			N/C	N/C				
097	SPARE			N/C	N/C				
098	SHLD	SHLD CARRY THRU		N/C	N/C				
099	SHLD	SHLD CARRY THRU		N/C	N/C				
100	SHLD	SHLD CARRY THRU		N/C	N/C				

FJC P3

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27484T22F35PB
Connector MIL-C No	MS27484T22F35PB
MIL-C Pin No	M39029/58-360
Backshell Part No	NLS-SCT-22N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
001	SSR PWR	TWISTED W/ PIN 5		PCB P3	01	SSR PWR	22	TPJ	M27500/-22-SE-2-U-14
002	SSR PWR	TWISTED W/ PIN 6		PCB P3	02	SSR PWR	22	TPJ	M27500/-22-SE-2-U-14
003	SPARE			N/C	N/C				
004	SPARE			N/C	N/C				
005	SSR PWR RTN	TWISTED W/ PIN 1		PCB P3	21	SSR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
006	SSR PWR RTN	TWISTED W/ PIN 2		PCB P3	22	SSR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
007	SPARE			N/C	N/C				
008	+ 5V TLM	TWISTED W/ PIN 9	PIN 90	PACI P2	070	GP ANALOG CH16	24	TPSJ	M27500/-24-SE-2-S-14
009	AGND	TWISTED W/ PIN 8	PIN 90	PACI P2	SHELL	CHASSIS GROUND	24	TPSJ	M27500/-24-SE-2-S-14
010	+ 3.3V TLM	TWISTED W/ PIN 11	PIN 90	PACI P2	094	GP ANALOG CH17	24	TPSJ	M27500/-24-SE-2-S-14
011	AGND	TWISTED W/ PIN 10	PIN 90	PACI P2	SHELL	CHASSIS GROUND	24	TPSJ	M27500/-24-SE-2-S-14
012	SSR TEMP	TWISTED W/ PIN 13	PIN 100	PACI P2	009	AD590 IN7	24	TPSJ	M27500/-24-SE-2-S-14
013	SSR TEMP RTN	TWISTED W/ PIN 12	PIN 100	PACI P2	035	AD590 EXC7	24	TPSJ	M27500/-24-SE-2-S-14
014	SPARE			N/C	N/C				
015	SPARE			N/C	N/C				
016	SSR TX CMD CLK HI	TWISTED W/ PIN 17	PIN 84	PACI P1	077	SSR TX CMD CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
017	SSR TX CMD CLK LO	TWISTED W/ PIN 16	PIN 84	PACI P1	078	SSR TX CMD CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
018	SSR TX CMD VAL HI	TWISTED W/ PIN 19	PIN 84	PACI P1	083	SSR TX CMD VAL HI	24	TPSJ	M27500/-24-SE-2-S-14
019	SSR TX CMD VAL LO	TWISTED W/ PIN 18	PIN 84	PACI P1	084	SSR TX CMD VAL LO	24	TPSJ	M27500/-24-SE-2-S-14
020	SSR TX CMD DAT HI	TWISTED W/ PIN 21	PIN 84	PACI P1	087	SSR TX CMD DAT HI	24	TPSJ	M27500/-24-SE-2-S-14
021	SSR TX CMD DAT LO	TWISTED W/ PIN 20	PIN 84	PACI P1	088	SSR TX CMD DAT LO	24	TPSJ	M27500/-24-SE-2-S-14
022	SPARE			N/C	N/C				
023	SSR REC CLK HI	TWISTED W/ PIN 24	PIN 77	IDPU P1	09	H REC CLK+	24	TPSJ	M27500/-24-SE-2-S-14
024	SSR REC CLK LO	TWISTED W/ PIN 23	PIN 77	IDPU P1	28	H REC CLK-	24	TPSJ	M27500/-24-SE-2-S-14
025	SPARE			N/C	N/C				
026	SSR REC VAL HI	TWISTED W/ PIN 27	PIN 77	IDPU P1	10	H REC VALF+	24	TPSJ	M27500/-24-SE-2-S-14
027	SSR REC VAL LO	TWISTED W/ PIN 26	PIN 77	IDPU P1	29	H REC VALF-	24	TPSJ	M27500/-24-SE-2-S-14
028	SPARE			N/C	N/C				
029	SSR REC READY HI	TWISTED W/ PIN 30	PIN 85	IDPU P1	11	R REC RDYF+	24	TPSJ	M27500/-24-SE-2-S-14
030	SSR REC READY LO	TWISTED W/ PIN 29	PIN 85	IDPU P1	30	R REC RDYF-	24	TPSJ	M27500/-24-SE-2-S-14
031	SPARE			N/C	N/C				
032	SSR CMD RDY FLAG HI	TWISTED W/ PIN 33	PIN 85	PACI P1	094	SSR CMD RDY HI	24	TPSJ	M27500/-24-SE-2-S-14
033	SSR CMD RDY FLAG LO	TWISTED W/ PIN 32	PIN 85	PACI P1	095	SSR CMD RDY LO	24	TPSJ	M27500/-24-SE-2-S-14
034	SPARE			N/C	N/C				
035	SSR REC DAT 7 HI	TWISTED W/ PIN 36	PIN 77	IDPU P1	08	H REC DAT7+ (MSB)	24	TPSJ	M27500/-24-SE-2-S-14
036	SSR REC DAT 7 LO	TWISTED W/ PIN 35	PIN 77	IDPU P1	27	H REC DAT7- (MSB)	24	TPSJ	M27500/-24-SE-2-S-14
037	SSR REC DAT 6 HI	TWISTED W/ PIN 38	PIN 77	IDPU P1	07	H REC DAT6+	24	TPSJ	M27500/-24-SE-2-S-14
038	SSR REC DAT 6 LO	TWISTED W/ PIN 37	PIN 77	IDPU P1	26	H REC DAT6-	24	TPSJ	M27500/-24-SE-2-S-14
039	SSR REC DAT 5 HI	TWISTED W/ PIN 40	PIN 77	IDPU P1	06	H REC DAT5+	24	TPSJ	M27500/-24-SE-2-S-14
040	SSR REC DAT 5 LO	TWISTED W/ PIN 39	PIN 77	IDPU P1	25	H REC DAT5-	24	TPSJ	M27500/-24-SE-2-S-14
041	SSR REC DAT 4 HI	TWISTED W/ PIN 42	PIN 77	IDPU P1	05	H REC DAT4+	24	TPSJ	M27500/-24-SE-2-S-14
042	SSR REC DAT 4 LO	TWISTED W/ PIN 41	PIN 77	IDPU P1	24	H REC DAT4-	24	TPSJ	M27500/-24-SE-2-S-14
043	SSR REC DAT 3 HI	TWISTED W/ PIN 44	PIN 77	IDPU P1	04	H REC DAT3+	24	TPSJ	M27500/-24-SE-2-S-14
044	SSR REC DAT 3 LO	TWISTED W/ PIN 43	PIN 77	IDPU P1	23	H REC DAT3-	24	TPSJ	M27500/-24-SE-2-S-14
045	SPARE			N/C	N/C				
046	SPARE			N/C	N/C				
047	SPARE			N/C	N/C				
048	SSR REC DAT 2 HI	TWISTED W/ PIN 49	PIN 77	IDPU P1	03	H REC DAT2+	24	TPSJ	M27500/-24-SE-2-S-14
049	SSR REC DAT 2 LO	TWISTED W/ PIN 48	PIN 77	IDPU P1	22	H REC DAT2-	24	TPSJ	M27500/-24-SE-2-S-14
050	SSR REC DAT 1 HI	TWISTED W/ PIN 51	PIN 77	IDPU P1	02	H REC DAT1+	24	TPSJ	M27500/-24-SE-2-S-14

051	SSR REC DAT 1 LO	TWISTED W/ PIN 50	PIN 77	IDPU P1	21	H REC DAT1-	24	TPSJ	M27500/-24-SE-2-S-14
052	SSR REC DAT 0 HI	TWISTED W/ PIN 53	PIN 77	IDPU P1	01	H REC DAT0+ (LSB)	24	TPSJ	M27500/-24-SE-2-S-14
053	SSR REC DAT 0 LO	TWISTED W/ PIN 52	PIN 77	IDPU P1	20	H REC DAT0- (LSB)	24	TPSJ	M27500/-24-SE-2-S-14
054	DGND			PACI P1	081	DGND	24	SCJ	M27500/-24-SE-1-U-14
055	DGND			PACI P1	082	DGND	24	SCJ	M27500/-24-SE-1-U-14
056	SSR TLM CLK HI	TWISTED W/ PIN 57	PIN 84	PACI P1	092	SSR TX TLM CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
057	SSR TLM CLK LO	TWISTED W/ PIN 56	PIN 84	PACI P1	093	SSR TX TLM CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
058	SSR TLM VAL HI	TWISTED W/ PIN 59	PIN 100	PACI P1	051	SSR TLM VAL HI	24	TPSJ	M27500/-24-SE-2-S-14
059	SSR TLM VAL LO	TWISTED W/ PIN 58	PIN 100	PACI P1	052	SSR TLM VAL LO	24	TPSJ	M27500/-24-SE-2-S-14
060	SSR TLM DAT HI	TWISTED W/ PIN 61	PIN 100	PACI P1	049	SSR TLM DAT HI	24	TPSJ	M27500/-24-SE-2-S-14
061	SSR TLM DAT LO	TWISTED W/ PIN 60	PIN 100	PACI P1	050	SSR TLM DAT LO	24	TPSJ	M27500/-24-SE-2-S-14
062	DGND			PACI P1	054	DGND	24	SCJ	M27500/-24-SE-1-U-14
063	SSR PLYBK CLK HI	TWISTED W/ PIN 64	PIN 100	CIB P1	031	RPLY CLK RX HI	24	TPSJ	M27500/-24-SE-2-S-14
064	SSR PLYBK CLK LO	TWISTED W/ PIN 63	PIN 100	CIB P1	032	RPLY CLK RX LO	24	TPSJ	M27500/-24-SE-2-S-14
065	SSR PLYBK VAL HI	TWISTED W/ PIN 66	PIN 100	CIB P1	033	RPLY VALF RX HI	24	TPSJ	M27500/-24-SE-2-S-14
066	SSR PLYBK VAL LO	TWISTED W/ PIN 65	PIN 100	CIB P1	034	RPLY VALF RX LO	24	TPSJ	M27500/-24-SE-2-S-14
067	SSR PLYBK DAT 7 HI	TWISTED W/ PIN 68	PIN 100	CIB P1	050	RPLY DAT7 RX HI	24	TPSJ	M27500/-24-SE-2-S-14
068	SSR PLYBK DAT 7 LO	TWISTED W/ PIN 67	PIN 100	CIB P1	051	RPLY DAT7 RX LO	24	TPSJ	M27500/-24-SE-2-S-14
069	SSR PLYBK DAT 6 HI	TWISTED W/ PIN 70	PIN 100	CIB P1	048	RPLY DAT6 RX HI	24	TPSJ	M27500/-24-SE-2-S-14
070	SSR PLYBK DAT 6 LO	TWISTED W/ PIN 69	PIN 100	CIB P1	049	RPLY DAT6 RX LO	24	TPSJ	M27500/-24-SE-2-S-14
071	SSR PLYBK DAT 5 HI	TWISTED W/ PIN 72	PIN 100	CIB P1	046	RPLY DAT5 RX HI	24	TPSJ	M27500/-24-SE-2-S-14
072	SSR PLYBK DAT 5 LO	TWISTED W/ PIN 71	PIN 100	CIB P1	047	RPLY DAT5 RX LO	24	TPSJ	M27500/-24-SE-2-S-14
073	SSR PLYBK DAT 4 HI	TWISTED W/ PIN 74	PIN 100	CIB P1	044	RPLY DAT4 RX HI	24	TPSJ	M27500/-24-SE-2-S-14
074	SSR PLYBK DAT 4 LO	TWISTED W/ PIN 73	PIN 100	CIB P1	045	RPLY DAT4 RX LO	24	TPSJ	M27500/-24-SE-2-S-14
075	SSR PLYBK DAT 3 HI	TWISTED W/ PIN 76	PIN 100	CIB P1	042	RPLY DAT3 RX HI	24	TPSJ	M27500/-24-SE-2-S-14
076	SSR PLYBK DAT 3 LO	TWISTED W/ PIN 75	PIN 100	CIB P1	043	RPLY DAT3 RX LO	24	TPSJ	M27500/-24-SE-2-S-14
077	SHLD	SHLD CARRY THRU		N/C	N/C				
078	SSR PLYBK DAT 2 HI	TWISTED W/ PIN 79	PIN 100	CIB P1	040	RPLY DAT2 RX HI	24	TPSJ	M27500/-24-SE-2-S-14
079	SSR PLYBK DAT 2 LO	TWISTED W/ PIN 78	PIN 100	CIB P1	041	RPLY DAT2 RX LO	24	TPSJ	M27500/-24-SE-2-S-14
080	SSR PLYBK DAT 1 HI	TWISTED W/ PIN 81	PIN 100	CIB P1	037	RPLY DAT1 RX HI	24	TPSJ	M27500/-24-SE-2-S-14
081	SSR PLYBK DAT 1 LO	TWISTED W/ PIN 80	PIN 100	CIB P1	038	RPLY DAT1 RX LO	24	TPSJ	M27500/-24-SE-2-S-14
082	SSR PLYBK DAT 0 HI	TWISTED W/ PIN 83	PIN 100	CIB P1	035	RPLY DAT0 RX HI	24	TPSJ	M27500/-24-SE-2-S-14
083	SSR PLYBK DAT 0 LO	TWISTED W/ PIN 82	PIN 100	CIB P1	036	RPLY DAT0 RX LO	24	TPSJ	M27500/-24-SE-2-S-14
084	SHLD	SHLD CARRY THRU		N/C	N/C				
085	SHLD	SHLD CARRY THRU		N/C	N/C				
086	SSR PLYBK CLK HI	TWISTED W/ PIN 87	PIN 94	CIB P1	007	PLY CLK SSR HI	24	TPSJ	M27500/-24-SE-2-S-14
087	SSR PLYBK CLK LO	TWISTED W/ PIN 86	PIN 94	CIB P1	008	PLY CLK SSR LO	24	TPSJ	M27500/-24-SE-2-S-14
088	SSR PLYBK RDY HI	TWISTED W/ PIN 89	PIN 94	CIB P1	010	RDY SSR TX HI	24	TPSJ	M27500/-24-SE-2-S-14
089	SSR PLYBK RDY LO	TWISTED W/ PIN 88	PIN 94	CIB P1	011	RDY SSR TX LO	24	TPSJ	M27500/-24-SE-2-S-14
090	SHLD	SHLD CARRY THRU		N/C	N/C				
091	DGND			CIB P1	053	DGND	24	SCJ	M27500/-24-SE-1-U-14
092	DGND			CIB P1	052	DGND	24	SCJ	M27500/-24-SE-1-U-14
093	DGND			PACI P1	053	DGND	24	SCJ	M27500/-24-SE-1-U-14
094	SHLD	SHLD CARRY THRU		N/C	N/C				
095	SSR HTR PWR	TWISTED W/ PIN 96		PCB P3	09	SSR HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
096	SSR HTR PWR RTN	TWISTED W/ PIN 95		PCB P3	29	SSR HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
097	SSR HTR PWR	TWISTED W/ PIN 98		PCB P3	10	SSR HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
098	SSR HTR PWR RTN	TWISTED W/ PIN 97		PCB P3	30	SSR HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
099	SHLD	SHLD CARRY THRU		N/C	N/C				
100	SHLD	SHLD CARRY THRU		N/C	N/C				

FPC P1

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	N/C			N/C	N/C				
2	+ X UP PRI	TWISTED W/ PIN 9		FJC J1	082	+ X UP PRI	22	TPJ	M27500/-22-SE-2-U-14
3	N/C			N/C	N/C				
4	N/C			N/C	N/C				
5	+ X UP SEC RTN	TWISTED W/ PIN 7		FJC J1	085	+ X UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
6	N/C			N/C	N/C				
7	+ X UP SEC	TWISTED W/ PIN 5		FJC J1	084	+ X UP SEC	22	TPJ	M27500/-22-SE-2-U-14
8	N/C			N/C	N/C				
9	+ X UP PRI RTN	TWISTED W/ PIN 2		FJC J1	083	+ X UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14

FPC P2

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	N/C			N/C	N/C				
2	- X UP PRI	TWISTED W/ PIN 9		FJC J2	080	- X UP PRI	22	TPJ	M27500/-22-SE-2-U-14
3	N/C			N/C	N/C				
4	N/C			N/C	N/C				
5	- X UP SEC RTN	TWISTED W/ PIN 7		FJC J2	083	- X UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
6	N/C			N/C	N/C				
7	- X UP SEC	TWISTED W/ PIN 5		FJC J2	082	- X UP SEC	22	TPJ	M27500/-22-SE-2-U-14
8	N/C			N/C	N/C				
9	- X UP PRI RTN	TWISTED W/ PIN 2		FJC J2	081	- X UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14

FPC P3

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	N/C			N/C	N/C				
2	+ Y UP PRI	TWISTED W/ PIN 9		FJC J1	086	+ Y UP PRI	22	TPJ	M27500/-22-SE-2-U-14
3	N/C			N/C	N/C				
4	N/C			N/C	N/C				
5	+ Y UP SEC RTN	TWISTED W/ PIN 7		FJC J1	089	+ Y UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
6	N/C			N/C	N/C				
7	+ Y UP SEC	TWISTED W/ PIN 5		FJC J1	088	+ Y UP SEC	22	TPJ	M27500/-22-SE-2-U-14
8	N/C			N/C	N/C				
9	+ Y UP PRI RTN	TWISTED W/ PIN 2		FJC J1	087	+ Y UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14

FPC P4

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	N/C			N/C	N/C				
2	- Y UP PRI	TWISTED W/ PIN 9		FJC J2	084	- Y UP PRI	22	TPJ	M27500/-22-SE-2-U-14
3	N/C			N/C	N/C				
4	N/C			N/C	N/C				
5	- Y UP SEC RTN	TWISTED W/ PIN 7		FJC J2	087	- Y UP SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
6	N/C			N/C	N/C				
7	- Y UP SEC	TWISTED W/ PIN 5		FJC J2	086	- Y UP SEC	22	TPJ	M27500/-22-SE-2-U-14
8	N/C			N/C	N/C				
9	- Y UP PRI RTN	TWISTED W/ PIN 2		FJC J2	085	- Y UP PRI RTN	22	TPJ	M27500/-22-SE-2-U-14

FPC P5

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	N/C			N/C	N/C				
2	+ X LO PRI	TWISTED W/ PIN 9		FJC J1	090	+ X LO PRI	22	TPJ	M27500/-22-SE-2-U-14
3	N/C			N/C	N/C				
4	N/C			N/C	N/C				
5	+ X LO SEC RTN	TWISTED W/ PIN 7		FJC J1	093	+ X LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
6	N/C			N/C	N/C				
7	+ X LO SEC	TWISTED W/ PIN 5		FJC J1	092	+ X LO SEC	22	TPJ	M27500/-22-SE-2-U-14
8	N/C			N/C	N/C				
9	+ X LO PRI RTN	TWISTED W/ PIN 2		FJC J1	091	+ X LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14

FPC P6

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	N/C			N/C	N/C				
2	- X LO PRI	TWISTED W/ PIN 9		FJC J2	088	- X LO PRI	22	TPJ	M27500/-22-SE-2-U-14
3	N/C			N/C	N/C				
4	N/C			N/C	N/C				
5	- X LO SEC RTN	TWISTED W/ PIN 7		FJC J2	091	- X LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
6	N/C			N/C	N/C				
7	- X LO SEC	TWISTED W/ PIN 5		FJC J2	090	- X LO SEC	22	TPJ	M27500/-22-SE-2-U-14
8	N/C			N/C	N/C				
9	- X LO PRI RTN	TWISTED W/ PIN 2		FJC J2	089	- X LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14

FPC P7

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	N/C			N/C	N/C				
2	+ Y LO PRI	TWISTED W/ PIN 9		FJC J1	094	+ Y LO PRI	22	TPJ	M27500/-22-SE-2-U-14
3	N/C			N/C	N/C				
4	N/C			N/C	N/C				
5	+ Y LO SEC RTN	TWISTED W/ PIN 7		FJC J1	097	+ Y LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
6	N/C			N/C	N/C				
7	+ Y LO SEC	TWISTED W/ PIN 5		FJC J1	096	+ Y LO SEC	22	TPJ	M27500/-22-SE-2-U-14
8	N/C			N/C	N/C				
9	+ Y LO PRI RTN	TWISTED W/ PIN 2		FJC J1	095	+ Y LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14

FPC P8

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	N/C			N/C	N/C				
2	- Y LO PRI	TWISTED W/ PIN 9		FJC J2	092	- Y LO PRI	22	TPJ	M27500/-22-SE-2-U-14
3	N/C			N/C	N/C				
4	N/C			N/C	N/C				
5	- Y LO SEC RTN	TWISTED W/ PIN 7		FJC J2	095	- Y LO SEC RTN	22	TPJ	M27500/-22-SE-2-U-14
6	N/C			N/C	N/C				
7	- Y LO SEC	TWISTED W/ PIN 5		FJC J2	094	- Y LO SEC	22	TPJ	M27500/-22-SE-2-U-14
8	N/C			N/C	N/C				
9	- Y LO PRI RTN	TWISTED W/ PIN 2		FJC J2	093	- Y LO PRI RTN	22	TPJ	M27500/-22-SE-2-U-14

FSE ICP1

ConnType	JF P Winchester 4 Contact
PartNo	JF1P3SB
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	FSE HTR PWR	TWISTED W/ PIN C	OPEN	FJC J2	036	FSE HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
B	FSE HTR PWR RTN	TWISTED W/ PIN D	OPEN	FJC J2	039	FSE HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
C	FSE HTR PWR RTN	TWISTED W/ PIN A	OPEN	FJC J2	038	FSE HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
D	FSE HTR PWR	TWISTED W/ PIN B	OPEN	FJC J2	037	FSE HTR PWR	22	TPJ	M27500/-22-SE-2-U-14

FSE ICP2

ConnType	JF S Winchester 2 Contact
PartNo	JF1S1PA
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	FSE AD590 +	TWISTED W/ PIN B	OPEN	FJC J2	040	FSE AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
B	FSE AD590 -	TWISTED W/ PIN A	OPEN	FJC J2	041	FSE AD590 -	24	TPSJ	M27500/-24-SE-2-S-14

FSE P1

ConnType	D 25S
PartNo	311P409-3S-B-12
Connector MIL-C No	311P409-3S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DB50906-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	FSE PWR	TWISTED W/ PIN 3		FJC J2	021	FSE PWR	22	TPJ	M27500/-22-SE-2-U-14
01-spl1	FSE PWR	TWISTED W/ PIN 3		FJC J2	022	FSE PWR	22	TPJ	M27500/-22-SE-2-U-14
02	SPARE			N/C	N/C				
03	FSE PWR RTN	TWISTED W/ PIN 1		FJC J2	023	FSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
03-spl1	FSE PWR RTN	TWISTED W/ PIN 1		FJC J2	024	FSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
04	SIG RTN	TWISTED W/ PIN 12	OPEN	N/C	N/C				
05	SIG RTN	TWISTED W/ PIN 17	OPEN	FJC J2	026	SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
06	CLOCK		OPEN	FJC J2	031	FSE SERIAL DAT - CLK	24	SCSJ	M27500/-24-SE-1-S-14
07	SPARE			N/C	N/C				
08	ENA GATE		OPEN	FJC J2	032	FSE SERIAL DAT - ENA	24	SCSJ	M27500/-24-SE-1-S-14
09	SPARE			N/C	N/C				
10	SPARE			N/C	N/C				
11	SPARE			N/C	N/C				
12	VOLTAGE MON	TWISTED W/ PIN 4	OPEN	FJC J2	029	TLMA FSE VOLT MON	24	TPSJ	M27500/-24-SE-2-S-14
13	SERIAL OUTPUT		OPEN	FJC J2	033	FSE SERIAL DAT - OUT	24	SCSJ	M27500/-24-SE-1-S-14
14	SPARE			N/C	N/C				
15	SPARE			N/C	N/C				
16	SPARE			N/C	N/C				
17	SUN PRESENCE OUTPUT	TWISTED W/ PIN 5	OPEN	FJC J2	025	SUN PRESENCE OUT	24	TPSJ	M27500/-24-SE-2-S-14
18	SPARE			N/C	N/C				
19	SPARE			N/C	N/C				
20	SPARE			N/C	N/C				
21	SPARE			N/C	N/C				
22	SENSITIVITY CNTL	TWISTED W/ PIN 25		FJC J2	027	SENSITIVITY CNTL	22	TPJ	M27500/-22-SE-2-U-14
23	SIN OUTPUT		OPEN	FJC J2	034	SIN OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
24	COS OUTPUT		OPEN	FJC J2	035	COS OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
25	CHASSIS GND	TWISTED W/ PIN 22		FJC J2	028	SENSITIVITY CNTL RTN	22	TPJ	M27500/-22-SE-2-U-14

FSE P2

ConnType	D 37S
PartNo	311P409-4S-B-12
Connector MIL-C No	311P409-4S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DC50907-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CHASSIS GND			N/C	N/C				
02	ATA A	SIG RTN ON PIN 20	PIN 37	FSH P1	28	ATA A	24	SCSJ	M27500/-24-SE-1-S-14
03	BIT 1FA	SIG RTN ON PIN 20	PIN 37	FSH P1	37	BIT 1FA	24	SCSJ	M27500/-24-SE-1-S-14
04	BIT 2FA	SIG RTN ON PIN 20	PIN 37	FSH P1	09	BIT 2FA	24	SCSJ	M27500/-24-SE-1-S-14
05	BIT 3FA	SIG RTN ON PIN 20	PIN 37	FSH P1	24	BIT 3FA	24	SCSJ	M27500/-24-SE-1-S-14
06	BIT 4FA	SIG RTN ON PIN 20	PIN 37	FSH P1	08	BIT 4FA	24	SCSJ	M27500/-24-SE-1-S-14
07	BIT 4CA	SIG RTN ON PIN 20	PIN 37	FSH P1	10	BIT 4CA	24	SCSJ	M27500/-24-SE-1-S-14
08	BIT 5CA	SIG RTN ON PIN 20	PIN 37	FSH P1	25	BIT 5CA	24	SCSJ	M27500/-24-SE-1-S-14
09	BIT 6CA	SIG RTN ON PIN 20	PIN 37	FSH P1	11	BIT 6CA	24	SCSJ	M27500/-24-SE-1-S-14
10	BIT 7CA	SIG RTN ON PIN 20	PIN 37	FSH P1	12	BIT 7CA	24	SCSJ	M27500/-24-SE-1-S-14
11	BIT 8CA	SIG RTN ON PIN 20	PIN 37	FSH P1	13	BIT 8CA	24	SCSJ	M27500/-24-SE-1-S-14
12	BIT 9CA	SIG RTN ON PIN 20	PIN 37	FSH P1	14	BIT 9CA	24	SCSJ	M27500/-24-SE-1-S-14
13	ATA B	SIG RTN ON PIN 20	PIN 37	FSH P1	07	ATA B	24	SCSJ	M27500/-24-SE-1-S-14
14	SPARE			N/C	N/C				
15	SPARE			N/C	N/C				
16	SPARE			N/C	N/C				
17	SPARE			N/C	N/C				
18	SPARE			N/C	N/C				
19	CHASSIS GND			FSH P1	17	CHASSIS GND	24	SCJ	M27500/-24-SE-1-U-14
20	SIG RTN		PIN 37	FSH P1	15	SIG RTN	24	SCSJ	M27500/-24-SE-1-S-14
21	SIG RTN			N/C	N/C				
22	BIT 1FB	SIG RTN ON PIN 20	PIN 37	FSH P1	04	BIT 1FB	24	SCSJ	M27500/-24-SE-1-S-14
23	BIT 2FB	SIG RTN ON PIN 20	PIN 37	FSH P1	05	BIT 2FB	24	SCSJ	M27500/-24-SE-1-S-14
24	BIT 3FB	SIG RTN ON PIN 20	PIN 37	FSH P1	22	BIT 3FB	24	SCSJ	M27500/-24-SE-1-S-14
25	BIT 4FB	SIG RTN ON PIN 20	PIN 37	FSH P1	06	BIT 4FB	24	SCSJ	M27500/-24-SE-1-S-14
26	BIT 4CB	SIG RTN ON PIN 20	PIN 37	FSH P1	03	BIT 4CB	24	SCSJ	M27500/-24-SE-1-S-14
27	BIT 5CB	SIG RTN ON PIN 20	PIN 37	FSH P1	20	BIT 5CB	24	SCSJ	M27500/-24-SE-1-S-14
28	BIT 6CB	SIG RTN ON PIN 20	PIN 37	FSH P1	02	BIT 6CB	24	SCSJ	M27500/-24-SE-1-S-14
29	BIT 7CB	SIG RTN ON PIN 20	PIN 37	FSH P1	01	BIT 7CB	24	SCJ	M27500/-24-SE-1-U-14
30	BIT 8CB	SIG RTN ON PIN 20	PIN 37	FSH P1	18	BIT 8CB	24	SCSJ	M27500/-24-SE-1-S-14
31	BIT 9CB	SIG RTN ON PIN 20	PIN 37	FSH P1	35	BIT 9CB	24	SCSJ	M27500/-24-SE-1-S-14
32	SPARE			N/C	N/C				
33	N/C			N/C	N/C				
34	SPARE			N/C	N/C				
35	SPARE			N/C	N/C				
36	SPARE			N/C	N/C				
37	CHASSIS GND	SHLD RTN		N/C	N/C				

FSH P1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27484T14F35S
Connector MIL-C No	MS27484T14F35S
MIL-C Pin No	M39029/57-354
Backshell Part No	NLS-SCT-14N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	BIT 7CB	SIG RTN ON PIN 15	OPEN	FSE P2	29	BIT 7CB	24	SCJ	M27500/-24-SE-1-U-14
02	BIT 6CB	SIG RTN ON PIN 15	OPEN	FSE P2	28	BIT 6CB	24	SCSJ	M27500/-24-SE-1-S-14
03	BIT 4CB	SIG RTN ON PIN 15	OPEN	FSE P2	26	BIT 4CB	24	SCSJ	M27500/-24-SE-1-S-14
04	BIT 1FB	SIG RTN ON PIN 15	OPEN	FSE P2	22	BIT 1FB	24	SCSJ	M27500/-24-SE-1-S-14
05	BIT 2FB	SIG RTN ON PIN 15	OPEN	FSE P2	23	BIT 2FB	24	SCSJ	M27500/-24-SE-1-S-14
06	BIT 4FB	SIG RTN ON PIN 15	OPEN	FSE P2	25	BIT 4FB	24	SCSJ	M27500/-24-SE-1-S-14
07	ATA B	SIG RTN ON PIN 15	OPEN	FSE P2	13	ATA B	24	SCSJ	M27500/-24-SE-1-S-14
08	BIT 4FA	SIG RTN ON PIN 15	OPEN	FSE P2	06	BIT 4FA	24	SCSJ	M27500/-24-SE-1-S-14
09	BIT 2FA	SIG RTN ON PIN 15	OPEN	FSE P2	04	BIT 2FA	24	SCSJ	M27500/-24-SE-1-S-14
10	BIT 4CA	SIG RTN ON PIN 15	OPEN	FSE P2	07	BIT 4CA	24	SCSJ	M27500/-24-SE-1-S-14
11	BIT 6CA	SIG RTN ON PIN 15	OPEN	FSE P2	09	BIT 6CA	24	SCSJ	M27500/-24-SE-1-S-14
12	BIT 7CA	SIG RTN ON PIN 15	OPEN	FSE P2	10	BIT 7CA	24	SCSJ	M27500/-24-SE-1-S-14
13	BIT 8CA	SIG RTN ON PIN 15	OPEN	FSE P2	11	BIT 8CA	24	SCSJ	M27500/-24-SE-1-S-14
14	BIT 9CA	SIG RTN ON PIN 15	OPEN	FSE P2	12	BIT 9CA	24	SCSJ	M27500/-24-SE-1-S-14
15	SIG RTN		OPEN	FSE P2	20	SIG RTN	24	SCSJ	M27500/-24-SE-1-S-14
16	SPARE			N/C	N/C				
17	CHASSIS GND			FSE P2	19	CHASSIS GND	24	SCJ	M27500/-24-SE-1-U-14
18	BIT 8CB	SIG RTN ON PIN 15	OPEN	FSE P2	30	BIT 8CB	24	SCSJ	M27500/-24-SE-1-S-14
19	SPARE			N/C	N/C				
20	BIT 5CB	SIG RTN ON PIN 15	OPEN	FSE P2	27	BIT 5CB	24	SCSJ	M27500/-24-SE-1-S-14
21	SPARE			N/C	N/C				
22	BIT 3FB	SIG RTN ON PIN 15	OPEN	FSE P2	24	BIT 3FB	24	SCSJ	M27500/-24-SE-1-S-14
23	SPARE			N/C	N/C				
24	BIT 3FA	SIG RTN ON PIN 15	OPEN	FSE P2	05	BIT 3FA	24	SCSJ	M27500/-24-SE-1-S-14
25	BIT 5CA	SIG RTN ON PIN 15	OPEN	FSE P2	08	BIT 5CA	24	SCSJ	M27500/-24-SE-1-S-14
26	SPARE			N/C	N/C				
27	SPARE			N/C	N/C				
28	ATA A	SIG RTN ON PIN 15	OPEN	FSE P2	02	ATA A	24	SCSJ	M27500/-24-SE-1-S-14
29	SPARE			N/C	N/C				
30	SPARE			N/C	N/C				
31	SPARE			N/C	N/C				
32	SPARE			N/C	N/C				
33	SPARE			N/C	N/C				
34	SPARE			N/C	N/C				
35	BIT 9CB	SIG RTN ON PIN 15	OPEN	FSE P2	31	BIT 9CB	24	SCSJ	M27500/-24-SE-1-S-14
36	SPARE			N/C	N/C				
37	BIT 1FA	SIG RTN ON PIN 15	OPEN	FSE P2	03	BIT 1FA	24	SCSJ	M27500/-24-SE-1-S-14

IAD1 P1

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	PRI PHASE A + (YELLOW)	TWISTED W/ PIN 6	OPEN	ADB P2	10	IDA1 A FINISH	22	TPSJ	M27500/-22-SE-2-S-14
2	PRI PHASE B + (BROWN)	TWISTED W/ PIN 7	OPEN	ADB P2	12	IDA1 B FINISH	22	TPSJ	M27500/-22-SE-2-S-14
3	POT PWR			N/C	N/C				
4	POT CENTER	TWISTED W/ PIN 8	OPEN	PACI P3	096	PRT EXC6	24	TPSJ	M27500/-24-SE-2-S-14
5	TEMP SENSE	TWISTED W/ PIN 9	OPEN	PACI P2	004	AD590 IN2	24	TPSJ	M27500/-24-SE-2-S-14
6	PRI PHASE A - (WHT/VIOL)	TWISTED W/ PIN 1	OPEN	ADB P2	11	IDA1 A START	22	TPSJ	M27500/-22-SE-2-S-14
7	PRI PHASE B - (RED/BLK)	TWISTED W/ PIN 2	OPEN	ADB P2	13	IDA1 B START	22	TPSJ	M27500/-22-SE-2-S-14
8	POT RTN	TWISTED W/ PIN 4	OPEN	PACI P3	086	PRT IN6	24	TPSJ	M27500/-24-SE-2-S-14
9	TEMP SENSE RTN	TWISTED W/ PIN 5	OPEN	PACI P2	030	AD590 EXC2	24	TPSJ	M27500/-24-SE-2-S-14

IAD2 P1

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	PRI PHASE A + (YELLOW)	TWISTED W/ PIN 6	OPEN	ADB P2	15	IDA2 A FINISH	22	TPSJ	M27500/-22-SE-2-S-14
2	PRI PHASE B + (BROWN)	TWISTED W/ PIN 7	OPEN	ADB P2	17	IDA2 B FINISH	22	TPSJ	M27500/-22-SE-2-S-14
3	POT PWR			N/C	N/C				
4	POT CENTER	TWISTED W/ PIN 8	OPEN	PACI P3	097	PRT EXC7	24	TPSJ	M27500/-24-SE-2-S-14
5	TEMP SENSE	TWISTED W/ PIN 9	OPEN	PACI P2	005	AD590 IN3	24	TPSJ	M27500/-24-SE-2-S-14
6	PRI PHASE A - (WHT/VIOL)	TWISTED W/ PIN 1	OPEN	ADB P2	16	IDA2 A START	22	TPSJ	M27500/-22-SE-2-S-14
7	PRI PHASE B - (RED/BLK)	TWISTED W/ PIN 2	OPEN	ADB P2	18	IDA2 B START	22	TPSJ	M27500/-22-SE-2-S-14
8	POT RTN	TWISTED W/ PIN 4	OPEN	PACI P3	087	PRT IN7	24	TPSJ	M27500/-24-SE-2-S-14
9	TEMP SENSE RTN	TWISTED W/ PIN 5	OPEN	PACI P2	031	AD590 EXC3	24	TPSJ	M27500/-24-SE-2-S-14

IDPU P1

ConnType	D 37S
PartNo	311P409-4S-B-12
Connector MIL-C No	311P409-4S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DC50907-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	H REC DAT0+ (LSB)	TWISTED W/ PIN 20	SHELL	FJC P3	052	SSR REC DAT 0 HI	24	TPSJ	M27500/-24-SE-2-S-14
02	H REC DAT1+	TWISTED W/ PIN 21	SHELL	FJC P3	050	SSR REC DAT 1 HI	24	TPSJ	M27500/-24-SE-2-S-14
03	H REC DAT2+	TWISTED W/ PIN 22	SHELL	FJC P3	048	SSR REC DAT 2 HI	24	TPSJ	M27500/-24-SE-2-S-14
04	H REC DAT3+	TWISTED W/ PIN 23	SHELL	FJC P3	043	SSR REC DAT 3 HI	24	TPSJ	M27500/-24-SE-2-S-14
05	H REC DAT4+	TWISTED W/ PIN 24	SHELL	FJC P3	041	SSR REC DAT 4 HI	24	TPSJ	M27500/-24-SE-2-S-14
06	H REC DAT5+	TWISTED W/ PIN 25	SHELL	FJC P3	039	SSR REC DAT 5 HI	24	TPSJ	M27500/-24-SE-2-S-14
07	H REC DAT6+	TWISTED W/ PIN 26	SHELL	FJC P3	037	SSR REC DAT 6 HI	24	TPSJ	M27500/-24-SE-2-S-14
08	H REC DAT7+ (MSB)	TWISTED W/ PIN 27	SHELL	FJC P3	035	SSR REC DAT 7 HI	24	TPSJ	M27500/-24-SE-2-S-14
09	H REC CLK+	TWISTED W/ PIN 28	SHELL	FJC P3	023	SSR REC CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
10	H REC VALF+	TWISTED W/ PIN 29	SHELL	FJC P3	026	SSR REC VAL HI	24	TPSJ	M27500/-24-SE-2-S-14
11	R REC RDYF+	TWISTED W/ PIN 30	OPEN	FJC P3	029	SSR REC READY HI	24	TPSJ	M27500/-24-SE-2-S-14
12	CMD+	TWISTED W/ PIN 31	OPEN	PACI P1	055	ACH1 TX422 HI	24	TPSJ	M27500/-24-SE-2-S-14
13	TLM+	TWISTED W/ PIN 32	SHELL	PACI P1	065	ACH1 RX422 HI	24	TPSJ	M27500/-24-SE-2-S-14
14	CLK 1HZ	TWISTED W/ PIN 33	OPEN	PACI P3	060	FP 1HZ CLK	24	TPSJ	M27500/-24-SE-2-S-14
15	CLK 1MHZ	TWISTED W/ PIN 34	OPEN	PACI P3	058	FP 1MHZ CLK	24	TPSJ	M27500/-24-SE-2-S-14
16	RESET		OPEN	PACI P3	061	IDPU RESET	24	SCSJ	M27500/-24-SE-1-S-14
17	SAFE		OPEN	PCB P3	50	IDPU SAFEMODE SIG	24	SCSJ	M27500/-24-SE-1-S-14
18	RAS TEMP SENSOR	TWISTED W/ PIN 36	OPEN	PACI P2	019	AD590 IN17	24	TPSJ	M27500/-24-SE-2-S-14
19	IDPU TEMP	TWISTED W/ PIN 37	OPEN	PACI P2	015	AD590 IN13	24	TPSJ	M27500/-24-SE-2-S-14
20	H REC DAT0- (LSB)	TWISTED W/ PIN 1	SHELL	FJC P3	053	SSR REC DAT 0 LO	24	TPSJ	M27500/-24-SE-2-S-14
21	H REC DAT1-	TWISTED W/ PIN 2	SHELL	FJC P3	051	SSR REC DAT 1 LO	24	TPSJ	M27500/-24-SE-2-S-14
22	H REC DAT2-	TWISTED W/ PIN 3	SHELL	FJC P3	049	SSR REC DAT 2 LO	24	TPSJ	M27500/-24-SE-2-S-14
23	H REC DAT3-	TWISTED W/ PIN 4	SHELL	FJC P3	044	SSR REC DAT 3 LO	24	TPSJ	M27500/-24-SE-2-S-14
24	H REC DAT4-	TWISTED W/ PIN 5	SHELL	FJC P3	042	SSR REC DAT 4 LO	24	TPSJ	M27500/-24-SE-2-S-14
25	H REC DAT5-	TWISTED W/ PIN 6	SHELL	FJC P3	040	SSR REC DAT 5 LO	24	TPSJ	M27500/-24-SE-2-S-14
26	H REC DAT6-	TWISTED W/ PIN 7	SHELL	FJC P3	038	SSR REC DAT 6 LO	24	TPSJ	M27500/-24-SE-2-S-14
27	H REC DAT7- (MSB)	TWISTED W/ PIN 8	SHELL	FJC P3	036	SSR REC DAT 7 LO	24	TPSJ	M27500/-24-SE-2-S-14
28	H REC CLK-	TWISTED W/ PIN 9	SHELL	FJC P3	024	SSR REC CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
29	H REC VALF-	TWISTED W/ PIN 10	SHELL	FJC P3	027	SSR REC VAL LO	24	TPSJ	M27500/-24-SE-2-S-14
30	R REC RDYF-	TWISTED W/ PIN 11	OPEN	FJC P3	030	SSR REC READY LO	24	TPSJ	M27500/-24-SE-2-S-14
31	CMD-	TWISTED W/ PIN 12	OPEN	PACI P1	056	ACH1 TX422 LO	24	TPSJ	M27500/-24-SE-2-S-14
32	TLM-	TWISTED W/ PIN 13	SHELL	PACI P1	066	ACH1 RX422 LO	24	TPSJ	M27500/-24-SE-2-S-14
33	SIG GND	TWISTED W/ PIN 14	OPEN	PACI P3	059	DGND	24	TPSJ	M27500/-24-SE-2-S-14
34	SIG GND	TWISTED W/ PIN 15	OPEN	PACI P3	057	DGND	24	TPSJ	M27500/-24-SE-2-S-14
35	SPARE			N/C	N/C				
36	RAS TEMP SENSOR RTN	TWISTED W/ PIN 18	OPEN	PACI P2	045	AD590 EXC17	24	TPSJ	M27500/-24-SE-2-S-14
37	IDPU TEMP RTN	TWISTED W/ PIN 19	OPEN	PACI P2	041	AD590 EXC13	24	TPSJ	M27500/-24-SE-2-S-14

IPC P1

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	IDPU HTR PWR	TWISTED W/ PIN 6		FJC J1	001	IDPU HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
01-spl1	IDPU HTR PWR	TWISTED W/ PIN 6		FJC J1	002	IDPU HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
02	IDPU PWR	TWISTED W/ PIN 7		FJC J1	008	IDPU PWR	22	TPJ	M27500/-22-SE-2-U-14
02-spl1	IDPU PWR	TWISTED W/ PIN 7		FJC J1	009	IDPU PWR	22	TPJ	M27500/-22-SE-2-U-14
03	IDPU SW PWR	TWISTED W/ PIN 8		FJC J1	016	IDPU SW PWR	22	TPJ	M27500/-22-SE-2-U-14
03-spl1	IDPU SW PWR	TWISTED W/ PIN 8		FJC J1	017	IDPU SW PWR	22	TPJ	M27500/-22-SE-2-U-14
04	SPARE			N/C	N/C				
05	IPC TEMP	TWISTED W/ PIN 9	OPEN	FJC J1	022	IPC TEMP	24	TPSJ	M27500/-24-SE-2-S-14
06	HTR PWR RTN	TWISTED W/ PIN 1		FJC J1	004	IDPU HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
06-spl1	HTR PWR RTN	TWISTED W/ PIN 1		FJC J1	005	IDPU HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
07	IDPU PWR RTN	TWISTED W/ PIN 2		FJC J1	011	IDPU PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
07-spl1	IDPU PWR RTN	TWISTED W/ PIN 2		FJC J1	012	IDPU PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
08	IDPU SW PWR RTN	TWISTED W/ PIN 3		FJC J1	019	IDPU SW PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
08-spl1	IDPU SW PWR RTN	TWISTED W/ PIN 3		FJC J1	020	IDPU SW PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
09	IPC TEMP RTN	TWISTED W/ PIN 5	OPEN	FJC J1	023	IPC TEMP RTN	24	TPSJ	M27500/-24-SE-2-S-14

MAG P1

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	PWR +15VDC	TWISTED W/ PIN 4		FJC J1	025	MAG +15V PWR	22	TPJ	M27500/-22-SE-2-U-14
01-spl1	PWR +15VDC	TWISTED W/ PIN 4		FJC J1	026	MAG +15V PWR	22	TPJ	M27500/-22-SE-2-U-14
02	TEMP MON	TWISTED W/ PIN 3	PIN 7	FJC J1	035	TLMA MAG TEMP	24	TPSJ	M27500/-24-SE-2-S-14
03	SIG GND	TWISTED W/ PIN 2	PIN 7	FJC J1	036	SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
04	PWR GND	TWISTED W/ PIN 1		FJC J1	030	MAG +15V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
04-spl1	PWR GND	TWISTED W/ PIN 9		FJC J1	032	MAG -15V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
04-spl2	PWR GND	TWISTED W/ PIN 1		FJC J1	031	MAG +15V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
04-spl3	PWR GND	TWISTED W/ PIN 9		FJC J1	033	MAG -15V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
05	Y OUTPUT		PIN 7	FJC J1	037	TLMA MAG Y OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
06	X OUTPUT		PIN 7	FJC J1	038	TLMA MAG X OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
07	CHASSIS GND	SHLD RTN		N/C	N/C				
08	Z OUTPUT		PIN 7	FJC J1	039	TLMA MAG Z OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
09	PWR -15VDC	TWISTED W/ PIN 4		FJC J1	027	MAG -15V PWR	22	TPJ	M27500/-22-SE-2-U-14
09-spl1	PWR -15VDC	TWISTED W/ PIN 4		FJC J1	028	MAG -15V PWR	22	TPJ	M27500/-22-SE-2-U-14

MLI ICP1

ConnType	JF S Winchester 2 Contact
PartNo	JF1S1PA
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	MLI AD590 +	TWISTED W/ PIN B	OPEN	FJC J1	021	MLI AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
B	MLI AD590 -	TWISTED W/ PIN A	OPEN	FJC J1	024	MLI AD590 -	24	TPSJ	M27500/-24-SE-2-S-14

PACI P1

ConnType	MICRO D 100P Keyed @ 99
PartNo	MM41210016181WQAS6
Connector MIL-C No	NONE
MIL-C Pin No	NONE
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
001	DGND			N/C	N/C				
002				N/C	N/C				
003	DIG DIN1	TWISTED W/ PIN 28	SHELL	FJC P2	025	SUN PRESENCE OUT	24	TPSJ	M27500/-24-SE-2-S-14
004	DGND	TWISTED W/ PIN 5	OPEN	XPD P10	38	RCVR LOCK STAT RTN	24	TPSJ	M27500/-24-SE-2-S-14
005	DIG DIN2	TWISTED W/ PIN 4	OPEN	XPD P10	37	RCVR LOCK STAT	24	TPSJ	M27500/-24-SE-2-S-14
006	DIG DIN3		OPEN	XPD P10	40	CDU LOCK STAT	24	SCSJ	M27500/-24-SE-1-S-14
007	DIG DIN4		OPEN	XPD P10	20	XMT ON/OFF STAT	24	SCSJ	M27500/-24-SE-1-S-14
008	DIG DIN5	TWISTED W/ PIN 20	SHELL	FJC P2	047	POS1 IND RTN	24	TPSJ	M27500/-24-SE-2-S-14
009	DIG DIN6			ADB P1	23	SEP SENSE TM1	24	SCJ	M27500/-24-SE-1-U-14
010	DGND			N/C	N/C				
011	DIG DIN7			ADB P1	27	SEP SENSE TM2	24	SCJ	M27500/-24-SE-1-U-14
012	DIG DIN8			ADB P1	43	SEP SENSE TM3	24	SCJ	M27500/-24-SE-1-U-14
013	DIG DIN9			N/C	N/C				
014	DIG DIN10			N/C	N/C				
015	DIG DIN11			N/C	N/C				
016	DIG DIN12			N/C	N/C				
017	DIG DIN13			N/C	N/C				
018	DIG DIN14			N/C	N/C				
019	DIG DIN15			N/C	N/C				
020	DGND	TWISTED W/ PIN 8	SHELL	FJC P2	046	POS1 IND	24	TPSJ	M27500/-24-SE-2-S-14
021	DIG DOUT0		SHELL	CCB P3	22	MISSION MODE SE	24	SCSJ	M27500/-24-SE-1-S-14
022	DIG DOUT1		SHELL	CCB P3	21	MISSION MODE ST	24	SCSJ	M27500/-24-SE-1-S-14
023	DGND			N/C	N/C				
024	DIG DOUT2		SHELL	CCB P3	25	MISSION MODE CE	24	SCSJ	M27500/-24-SE-1-S-14
025	DIG DOUT3			N/C	N/C				
026	DIG DOUT4			N/C	N/C				
027	DIG DOUT5			N/C	N/C				
028	DGND	TWISTED W/ PIN 3	SHELL	FJC P2	026	SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
029	DIG DOUT6			N/C	N/C				
030	DIG DOUT7			N/C	N/C				
031	DIG DOUT8			N/C	N/C				
032	DIG DOUT9			N/C	N/C				
033	DIG DOUT10			N/C	N/C				
034	DIG DOUT11			N/C	N/C				
035	DIG DOUT12			N/C	N/C				
036	DIG DOUT13			N/C	N/C				
037	DGND			N/C	N/C				
038	DIG DOUT14			N/C	N/C				
039	DIG DOUT15			N/C	N/C				
040	DIG DIN16			N/C	N/C				
041	DIG DIN17			N/C	N/C				
042	DIG DIN18			N/C	N/C				
043	DIG DIN19			N/C	N/C				
044	DIG DIN20			N/C	N/C				
045	DIG DIN21			N/C	N/C				
046	DIG DIN22			N/C	N/C				
047	DIG DIN23			N/C	N/C				
048	N/C			N/C	N/C				
049	SSR TLM DAT HI	TWISTED W/ PIN 50	OPEN	FJC P3	060	SSR TLM DAT HI	24	TPSJ	M27500/-24-SE-2-S-14
050	SSR TLM DAT LO	TWISTED W/ PIN 49	OPEN	FJC P3	061	SSR TLM DAT LO	24	TPSJ	M27500/-24-SE-2-S-14

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051	SSR TLM VAL HI	TWISTED W/ PIN 52	OPEN	FJC P3	058	SSR TLM VAL HI	24	TPSJ	M27500/-24-SE-2-S-14
052	SSR TLM VAL LO	TWISTED W/ PIN 51	OPEN	FJC P3	059	SSR TLM VAL LO	24	TPSJ	M27500/-24-SE-2-S-14
053	DGND			FJC P3	093	DGND	24	SCJ	M27500/-24-SE-1-U-14
054	DGND			FJC P3	062	DGND	24	SCJ	M27500/-24-SE-1-U-14
055	ACH1 TX422 HI	TWISTED W/ PIN 56	SHELL	IDPU P1	12	CMD+	24	TPSJ	M27500/-24-SE-2-S-14
056	ACH1 TX422 LO	TWISTED W/ PIN 55	SHELL	IDPU P1	31	CMD-	24	TPSJ	M27500/-24-SE-2-S-14
057	ACH2 TX422 HI			N/C	N/C				
058	ACH2 TX422 LO			N/C	N/C				
059	ACH3 TX422 HI			N/C	N/C				
060	ACH3 TX422 LO			N/C	N/C				
061	ACH4 TX422 HI	TWISTED W/ PIN 62	SHELL	UMB J1	39	SERIAL TLM DATA	24	TPSJ	M27500/-24-SE-2-S-14
062	ACH4 TX422 LO	TWISTED W/ PIN 61	SHELL	UMB J1	40	SERIAL TLM DATA RTN	24	TPSJ	M27500/-24-SE-2-S-14
063	DGND			N/C	N/C				
064	DGND			N/C	N/C				
065	ACH1 RX422 HI	TWISTED W/ PIN 66	OPEN	IDPU P1	13	TLM+	24	TPSJ	M27500/-24-SE-2-S-14
066	ACH1 RX422 LO	TWISTED W/ PIN 65	OPEN	IDPU P1	32	TLM-	24	TPSJ	M27500/-24-SE-2-S-14
067	ACH2 RX422 HI			N/C	N/C				
068	ACH2 RX422 LO			N/C	N/C				
069	ACH3 RX422 HI			N/C	N/C				
070	ACH3 RX422 LO			N/C	N/C				
071	ACH4 RX422 HI		OPEN	UMB J1	37	SERIAL TLM POLL	24	TPSJ	M27500/-24-SE-2-S-14
072	ACH4 RX422 LO		OPEN	UMB J1	38	SERIAL TLM POLL RTN	24	TPSJ	M27500/-24-SE-2-S-14
073	DGND			N/C	N/C				
074	DGND			N/C	N/C				
075	SCH1 RX422 HI			N/C	N/C				
076	SCH1 RX422 LO			N/C	N/C				
077	SSR TX CMD CLK HI	TWISTED W/ PIN 78	SHELL	FJC P3	016	SSR TX CMD CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
078	SSR TX CMD CLK LO	TWISTED W/ PIN 77	SHELL	FJC P3	017	SSR TX CMD CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
079	SCH2 RX422 HI			N/C	N/C				
080	SCH2 RX422 LO			N/C	N/C				
081	DGND			FJC P3	054	DGND	24	SCJ	M27500/-24-SE-1-U-14
082	DGND			FJC P3	055	DGND	24	SCJ	M27500/-24-SE-1-U-14
083	SSR TX CMD VAL HI	TWISTED W/ PIN 84	SHELL	FJC P3	018	SSR TX CMD VAL HI	24	TPSJ	M27500/-24-SE-2-S-14
084	SSR TX CMD VAL LO	TWISTED W/ PIN 83	SHELL	FJC P3	019	SSR TX CMD VAL LO	24	TPSJ	M27500/-24-SE-2-S-14
085	SCH3 RX422 HI			N/C	N/C				
086	SCH3 RX422 LO			N/C	N/C				
087	SSR TX CMD DAT HI	TWISTED W/ PIN 88	SHELL	FJC P3	020	SSR TX CMD DAT HI	24	TPSJ	M27500/-24-SE-2-S-14
088	SSR TX CMD DAT LO	TWISTED W/ PIN 87	SHELL	FJC P3	021	SSR TX CMD DAT LO	24	TPSJ	M27500/-24-SE-2-S-14
089	SCH4 RX422 HI			N/C	N/C				
090	SCH4 RX422 LO			N/C	N/C				
091	DGND			N/C	N/C				
092	SSR TX TLM CLK HI	TWISTED W/ PIN 93	SHELL	FJC P3	056	SSR TLM CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
093	SSR TX TLM CLK LO	TWISTED W/ PIN 92	SHELL	FJC P3	057	SSR TLM CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
094	SSR CMD RDY HI	TWISTED W/ PIN 95	OPEN	FJC P3	032	SSR CMD RDY FLAG HI	24	TPSJ	M27500/-24-SE-2-S-14
095	SSR CMD RDY LO	TWISTED W/ PIN 94	OPEN	FJC P3	033	SSR CMD RDY FLAG LO	24	TPSJ	M27500/-24-SE-2-S-14
096	SPARE1 422 HI			N/C	N/C				
097	SPARE1 422 LO			N/C	N/C				
098	N/C			N/C	N/C				
099	KEY FILLED			N/C	N/C				
100	DGND			N/C	N/C				

PACI P2

ConnType	MICRO D 100P Keyed @ 92
PartNo	MM41210016181WQAS7
Connector MIL-C No	NONE
MIL-C Pin No	NONE
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
001	DGND			N/C	N/C				
002	AGND	SHLD RTN		N/C	N/C				
003	AD590 IN1	TWISTED W/ PIN 29	SHELL	FJC P2	040	FSE AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
004	AD590 IN2	TWISTED W/ PIN 30	SHELL	IAD1 P1	5	TEMP SENSE	24	TPSJ	M27500/-24-SE-2-S-14
005	AD590 IN3	TWISTED W/ PIN 31	SHELL	IAD2 P1	5	TEMP SENSE	24	TPSJ	M27500/-24-SE-2-S-14
006	AD590 IN4	TWISTED W/ PIN 32	SHELL	SEM ICP2	A	SEM CHASSIS AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
007	AD590 IN5	TWISTED W/ PIN 33	SHELL	SEM P2	35	VME TEMP	24	TPSJ	M27500/-24-SE-2-S-14
008	AD590 IN6	TWISTED W/ PIN 34	SHELL	SEM P2	02	OCXO TEMP	24	TPSJ	M27500/-24-SE-2-S-14
009	AD590 IN7	TWISTED W/ PIN 35	SHELL	FJC P3	012	SSR TEMP	24	TPSJ	M27500/-24-SE-2-S-14
010	AD590 IN8	TWISTED W/ PIN 36	SHELL	TQRX ICP2	A	TQRX AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
011	AD590 IN9	TWISTED W/ PIN 37	SHELL	TQRY ICP2	A	TQRY AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
012	AD590 IN10	TWISTED W/ PIN 38	SHELL	TQRZ ICP2	A	TQRZ AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
013	AD590 IN11	TWISTED W/ PIN 39	SHELL	XPD ICP2	A	XPD EXT AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
014	AD590 IN12	TWISTED W/ PIN 40	SHELL	FJC P1	021	MLI AD590 +	24	TPSJ	M27500/-24-SE-2-S-14
015	AD590 IN13	TWISTED W/ PIN 41	SHELL	IDPU P1	19	IDPU TEMP	24	TPSJ	M27500/-24-SE-2-S-14
016	AD590 IN14	TWISTED W/ PIN 42	SHELL	FJC P1	022	IPC TEMP	24	TPSJ	M27500/-24-SE-2-S-14
017	AD590 IN15	TWISTED W/ PIN 43	SHELL	FJC P2	001	CPC TEMP SENSOR	24	TPSJ	M27500/-24-SE-2-S-14
018	AD590 IN16	TWISTED W/ PIN 44	SHELL	FJC P2	003	CPC TEMP SENSOR	24	TPSJ	M27500/-24-SE-2-S-14
019	AD590 IN17	TWISTED W/ PIN 45	SHELL	IDPU P1	18	RAS TEMP SENSOR	24	TPSJ	M27500/-24-SE-2-S-14
020	AD590 IN18			N/C	N/C				
021	AD590 IN19			N/C	N/C				
022	AD590 IN20			N/C	N/C				
023	AGND			N/C	N/C				
024	AD590 IN21			N/C	N/C				
025	AD590 IN22			N/C	N/C				
026	AD590 IN23			N/C	N/C				
027	AD590 IN24			N/C	N/C				
028	AGND			N/C	N/C				
029	AD590 EXC1	TWISTED W/ PIN 3	SHELL	FJC P2	041	FSE AD590 -	24	TPSJ	M27500/-24-SE-2-S-14
030	AD590 EXC2	TWISTED W/ PIN 4	SHELL	IAD1 P1	9	TEMP SENSE RTN	24	TPSJ	M27500/-24-SE-2-S-14
031	AD590 EXC3	TWISTED W/ PIN 5	SHELL	IAD2 P1	9	TEMP SENSE RTN	24	TPSJ	M27500/-24-SE-2-S-14
032	AD590 EXC4	TWISTED W/ PIN 6	SHELL	SEM ICP2	B	SEM CHASSIS AD590 -	24	TPSJ	M27500/-24-SE-2-S-14
033	AD590 EXC5	TWISTED W/ PIN 7	SHELL	SEM P2	19	VME TEMP RTN	24	TPSJ	M27500/-24-SE-2-S-14
034	AD590 EXC6	TWISTED W/ PIN 8	SHELL	SEM P2	18	OCXO TEMP RTN	24	TPSJ	M27500/-24-SE-2-S-14
035	AD590 EXC7	TWISTED W/ PIN 9	SHELL	FJC P3	013	SSR TEMP RTN	24	TPSJ	M27500/-24-SE-2-S-14
036	AD590 EXC8	TWISTED W/ PIN 10	SHELL	TQRX ICP2	B	TQRX AD590 -	24	TPSJ	M27500/-24-SE-2-S-14
037	AD590 EXC9	TWISTED W/ PIN 11	SHELL	TQRY ICP2	B	TQRY AD590 -	24	TPSJ	M27500/-24-SE-2-S-14
038	AD590 EXC10	TWISTED W/ PIN 12	SHELL	TQRZ ICP2	B	TQRZ AD590 -	24	TPSJ	M27500/-24-SE-2-S-14
039	AD590 EXC11	TWISTED W/ PIN 13	SHELL	XPD ICP2	B	XPD EXT AD590 -	24	TPSJ	M27500/-24-SE-2-S-14
040	AD590 EXC12	TWISTED W/ PIN 14	SHELL	FJC P1	024	MLI AD590 -	24	TPSJ	M27500/-24-SE-2-S-14
041	AD590 EXC13	TWISTED W/ PIN 15	SHELL	IDPU P1	37	IDPU TEMP RTN	24	TPSJ	M27500/-24-SE-2-S-14
042	AD590 EXC14	TWISTED W/ PIN 16	SHELL	FJC P1	023	IPC TEMP RTN	24	TPSJ	M27500/-24-SE-2-S-14
043	AD590 EXC15	TWISTED W/ PIN 17	SHELL	FJC P2	002	CPC TEMP SENSOR RTN	24	TPSJ	M27500/-24-SE-2-S-14
044	AD590 EXC16	TWISTED W/ PIN 18	SHELL	FJC P2	004	CPC TEMP SENSOR RTN	24	TPSJ	M27500/-24-SE-2-S-14
045	AD590 EXC17	TWISTED W/ PIN 19	SHELL	IDPU P1	36	RAS TEMP SENSOR RTN	24	TPSJ	M27500/-24-SE-2-S-14
046	AD590 EXC18			N/C	N/C				
047	AD590 EXC19			N/C	N/C				
048	AD590 EXC20			N/C	N/C				
049	AD590 EXC21			N/C	N/C				
050	AD590 EXC22			N/C	N/C				

051	AD590 EXC23			N/C	N/C				
052	AD590 EXC24			N/C	N/C				
053	AGND			N/C	N/C				
054	GP ANALOG CH1		SHELL	FJC P2	034	SIN OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
055	GP ANALOG CH2		SHELL	FJC P2	035	COS OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
056	GP ANALOG CH3			CCB P3	13	TLMA BAT PRESS1	24	SCJ	M27500/-24-SE-1-U-14
057	GP ANALOG CH4			CCB P3	17	TLMA BAT PRESS2	24	SCJ	M27500/-24-SE-1-U-14
058	GP ANALOG CH5		OPEN	FJC P1	038	TLMA MAG X OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
059	GP ANALOG CH6		OPEN	FJC P1	039	TLMA MAG Z OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
060	GP ANALOG CH7		OPEN	FJC P1	037	TLMA MAG Y OUTPUT	24	SCSJ	M27500/-24-SE-1-S-14
061	GP ANALOG CH8	TWISTED W/ PIN 64	OPEN	XPD P10	04	RCVR LOOP STRESS	24	TPSJ	M27500/-24-SE-2-S-14
062	GP ANALOG CH9		OPEN	XPD P10	01	RCVR CARRIER SIG LVL	24	SCSJ	M27500/-24-SE-1-S-14
063	GP ANALOG CH10		OPEN	XPD P10	07	CONV VOLTAGE	24	SCSJ	M27500/-24-SE-1-S-14
064	AGND	TWISTED W/ PIN 61	OPEN	N/C	N/C		24	TPSJ	M27500/-24-SE-2-S-14
065	GP ANALOG CH11		OPEN	XPD P10	14	XMT PWR AMP TEMP	24	SCSJ	M27500/-24-SE-1-S-14
066	GP ANALOG CH12		OPEN	XPD P10	12	XMT PWR SPLY TEMP	24	SCSJ	M27500/-24-SE-1-S-14
067	GP ANALOG CH13		OPEN	XPD P10	10	XMT PWR OUT	24	SCSJ	M27500/-24-SE-1-S-14
068	GP ANALOG CH14	TWISTED W/ PIN 90	OPEN	FJC P1	035	TLMA MAG TEMP	24	TPSJ	M27500/-24-SE-2-S-14
069	GP ANALOG CH15	TWISTED W/ PIN 93	SHELL	FJC P2	029	TLMA FSE VOLT MON	24	TPSJ	M27500/-24-SE-2-S-14
070	GP ANALOG CH16	TWISTED W/ PIN 71	OPEN	FJC P3	008	+ 5V TLM	24	TPSJ	M27500/-24-SE-2-S-14
071	AGND	TWISTED W/ PIN 70	OPEN	N/C	N/C		24	TPSJ	M27500/-24-SE-2-S-14
072	AGND	TWISTED W/ PIN 94	OPEN	N/C	N/C		24	TPSJ	M27500/-24-SE-2-S-14
073	ASUNSEN IN1	TWISTED W/ PIN 74	SHELL	FJC P2	054	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
074	ASUNSEN RTN1	TWISTED W/ PIN 73	SHELL	FJC P2	055	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
075	ASUNSEN IN2	TWISTED W/ PIN 76	SHELL	FJC P1	048	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
076	ASUNSEN RTN2	TWISTED W/ PIN 75	SHELL	FJC P1	049	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
077	ASUNSEN IN3	TWISTED W/ PIN 78	SHELL	FJC P1	058	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
078	ASUNSEN RTN3	TWISTED W/ PIN 77	SHELL	FJC P1	059	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
079	ASUNSEN IN4	TWISTED W/ PIN 80	SHELL	FJC P1	069	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
080	ASUNSEN RTN4	TWISTED W/ PIN 79	SHELL	FJC P1	070	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
081	AGND			N/C	N/C				
082	AGND			N/C	N/C				
083	ASUNSEN IN5	TWISTED W/ PIN 84	SHELL	FJC P1	079	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
084	ASUNSEN RTN5	TWISTED W/ PIN 83	SHELL	FJC P1	080	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
085	ASUNSEN IN6	TWISTED W/ PIN 86	SHELL	FJC P2	078	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
086	ASUNSEN RTN6	TWISTED W/ PIN 85	SHELL	FJC P2	079	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
087	ASUNSEN IN7	TWISTED W/ PIN 88	SHELL	FJC P2	062	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
088	ASUNSEN RTN7	TWISTED W/ PIN 87	SHELL	FJC P2	063	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
089	ASUNSEN IN8	TWISTED W/ PIN 91	SHELL	FJC P2	070	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
090	AGND	TWISTED W/ PIN 68	OPEN	FJC P1	036	SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
091	ASUNSEN RTN8	TWISTED W/ PIN 89	SHELL	FJC P2	071	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
092	KEY FILLED			N/C	N/C				
093	AGND	TWISTED W/ PIN 69	SHELL	N/C	N/C		24	TPSJ	M27500/-24-SE-2-S-14
094	GP ANALOG CH17	TWISTED W/ PIN 72	OPEN	FJC P3	010	+ 3.3V TLM	24	TPSJ	M27500/-24-SE-2-S-14
095	GP ANALOG CH18		OPEN	SEM P2	03	+5V	24	SCSJ	M27500/-24-SE-1-S-14
096	GP ANALOG CH19		OPEN	SEM P2	36	+5V CPU	24	SCSJ	M27500/-24-SE-1-S-14
097	GP ANALOG CH20		OPEN	ADB P3	37	TQR ZR CURRENT	24	SCSJ	M27500/-24-SE-1-S-14
098	AGND			N/C	N/C				
099	AGND			N/C	N/C				
100	DGND			N/C	N/C				
SHELL	CHASSIS GROUND			FJC P2	030	SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
SHELL	CHASSIS GROUND			FJC P3	009	AGND	24	TPSJ	M27500/-24-SE-2-S-14
SHELL	CHASSIS GROUND			FJC P3	011	AGND	24	TPSJ	M27500/-24-SE-2-S-14

PACI P3

ConnType	MICRO D 100P Keyed @ 79
PartNo	MM41210016181WQAS8
Connector MIL-C No	NONE
MIL-C Pin No	NONE
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
001	DGND	SHLD RTN		N/C	N/C				
002	LBUS DAT0			N/C	N/C				
003	LBUS DAT1			N/C	N/C				
004	LBUS DAT2			N/C	N/C				
005	LBUS DAT3			N/C	N/C				
006	LBUS DAT4			N/C	N/C				
007	LBUS DAT5			N/C	N/C				
008	LBUS DAT6			N/C	N/C				
009	LBUS DAT7			N/C	N/C				
010	DGND			N/C	N/C				
011	LBUS DAT8			N/C	N/C				
012	LBUS DAT9			N/C	N/C				
013	LBUS DAT10			N/C	N/C				
014	LBUS DAT11			N/C	N/C				
015	LBUS DAT12			N/C	N/C				
016	LBUS DAT13			N/C	N/C				
017	LBUS DAT14			N/C	N/C				
018	LBUS DAT15			N/C	N/C				
019	DGND			N/C	N/C				
020	LCMD BUS0			N/C	N/C				
021	LCMD BUS1			N/C	N/C				
022	LCMD BUS2			N/C	N/C				
023	LCMD BUS3			N/C	N/C				
024	LCMD BUS4			N/C	N/C				
025	LCMD BUS5			N/C	N/C				
026	LCMD BUS6			N/C	N/C				
027	LCMD BUS7			N/C	N/C				
028	WR PACI			N/C	N/C				
029	OE PACI3			N/C	N/C				
030	OE PACI4			N/C	N/C				
031	DONE PACI3			N/C	N/C				
032	DONE PACI4			N/C	N/C				
033	N/C			N/C	N/C				
034	N/C			N/C	N/C				
035	N/C			N/C	N/C				
036	DGND			N/C	N/C				
037	FSS DAT IN		SHELL	FJC P2	033	FSE SERIAL DAT - OUT	24	SCSJ	M27500/-24-SE-1-S-14
038	FSS CLK OUT		SHELL	FJC P2	031	FSE SERIAL DAT - CLK	24	SCSJ	M27500/-24-SE-1-S-14
039	FSS ENA OUT		SHELL	FJC P2	032	FSE SERIAL DAT - ENA	24	SCSJ	M27500/-24-SE-1-S-14
040	N/A			N/C	N/C				
041	N/A			N/C	N/C				
042	N/A			N/C	N/C				
043	N/A			N/C	N/C				
044	N/A			N/C	N/C				
045	N/A			N/C	N/C				
046	N/A			N/C	N/C				
047	N/A			N/C	N/C				
048	N/A			N/C	N/C				
049	SCH1 TX 422 HI			N/C	N/C				
050	SCH1 TX 422 LO			N/C	N/C				

051	SCH2 TX 422 HI			N/C	N/C				
052	SCH2 TX 422 LO			N/C	N/C				
053	SCH3 TX 422 HI			N/C	N/C				
054	SCH3 TX 422 LO			N/C	N/C				
055	SCH4 TX 422 HI			N/C	N/C				
056	SCH4 TX 422 LO			N/C	N/C				
057	DGND	TWISTED W/ PIN 58	SHELL	IDPU P1	34	SIG GND	24	TPSJ	M27500/-24-SE-2-S-14
058	FP 1MHZ CLK	TWISTED W/ PIN 57	SHELL	IDPU P1	15	CLK 1MHZ	24	TPSJ	M27500/-24-SE-2-S-14
059	DGND	TWISTED W/ PIN 60	SHELL	IDPU P1	33	SIG GND	24	TPSJ	M27500/-24-SE-2-S-14
060	FP 1HZ CLK	TWISTED W/ PIN 59	SHELL	IDPU P1	14	CLK 1HZ	24	TPSJ	M27500/-24-SE-2-S-14
061	IDPU RESET		SHELL	IDPU P1	16	RESET	24	SCSJ	M27500/-24-SE-1-S-14
062	MATT STS0			N/C	N/C				
063	MATT STS1			N/C	N/C				
064	MATT STS2			N/C	N/C				
065	MATT STS3			N/C	N/C				
066	MATT STS4			N/C	N/C				
067	MATT STS5			N/C	N/C				
068	MATT STS6			N/C	N/C				
069	MATT STS7			N/C	N/C				
070	MATT STS8			N/C	N/C				
071	MATT STS9			N/C	N/C				
072	MATT STS10			N/C	N/C				
073	MATT STS11			N/C	N/C				
074	MATT STS RTN1			N/C	N/C				
075	MATT STS RTN2			N/C	N/C				
076	MATT STS RTN11			N/C	N/C				
077	N/C			N/C	N/C				
078	N/C			N/C	N/C				
079	KEY FILLED			N/C	N/C				
080	AGND			N/C	N/C				
081	PRT IN1	TWISTED W/ PIN 91	SHELL	BAT P2	27	BAT TEMP3 LO	24	TPSJ	M27500/-24-SE-2-S-14
082	PRT IN2	TWISTED W/ PIN 92	SHELL	FJC P1	047	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
083	PRT IN3	TWISTED W/ PIN 93	SHELL	FJC P1	068	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
084	PRT IN4	TWISTED W/ PIN 94	SHELL	FJC P2	077	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
085	PRT IN5	TWISTED W/ PIN 95	SHELL	FJC P2	069	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
086	PRT IN6	TWISTED W/ PIN 96	SHELL	IAD1 P1	8	POT RTN	24	TPSJ	M27500/-24-SE-2-S-14
087	PRT IN7	TWISTED W/ PIN 97	SHELL	IAD2 P1	8	POT RTN	24	TPSJ	M27500/-24-SE-2-S-14
088	PRT IN8			N/C	N/C				
089	AGND			N/C	N/C				
090	AGND			N/C	N/C				
091	PRT EXC1	TWISTED W/ PIN 81	SHELL	BAT P2	26	BAT TEMP3 HI	24	TPSJ	M27500/-24-SE-2-S-14
092	PRT EXC2	TWISTED W/ PIN 82	SHELL	FJC P1	046	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
093	PRT EXC3	TWISTED W/ PIN 83	SHELL	FJC P1	067	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
094	PRT EXC4	TWISTED W/ PIN 84	SHELL	FJC P2	076	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
095	PRT EXC5	TWISTED W/ PIN 85	SHELL	FJC P2	068	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
096	PRT EXC6	TWISTED W/ PIN 86	SHELL	IAD1 P1	4	POT CENTER	24	TPSJ	M27500/-24-SE-2-S-14
097	PRT EXC7	TWISTED W/ PIN 87	SHELL	IAD2 P1	4	POT CENTER	24	TPSJ	M27500/-24-SE-2-S-14
098	PRT EXC8			N/C	N/C				
099	AGND			N/C	N/C				
100	AGND	SHLD RTN		N/C	N/C				

PCB P1

ConnType	D 37S
PartNo	311P409-4S-B-12
Connector MIL-C No	311P409-4S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DC50907-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	PCB BUS	TWISTED W/ PIN 15		CCB P2	05	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
02	PCB BUS	TWISTED W/ PIN 16		CCB P2	06	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
03	PCB BUS	TWISTED W/ PIN 17		CCB P2	07	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
04	PCB BUS	TWISTED W/ PIN 18		CCB P2	21	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
05	PCB BUS	TWISTED W/ PIN 19		CCB P2	22	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
06	CRYO PWR RTN	TWISTED W/ PIN 8		FJC P2	013	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
06-spl1	CRYO PWR RTN	TWISTED W/ PIN 8		FJC P2	015	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
07	CRYO PWR RTN	TWISTED W/ PIN 9		FJC P2	017	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
07-spl1	CRYO PWR RTN	TWISTED W/ PIN 9		FJC P2	019	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
08	CRYO PWR	TWISTED W/ PIN 6		FJC P2	005	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
08-spl1	CRYO PWR	TWISTED W/ PIN 6		FJC P2	007	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
09	CRYO PWR	TWISTED W/ PIN 7		FJC P2	009	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
09-spl1	CRYO PWR	TWISTED W/ PIN 7		FJC P2	011	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
10	IDPU PWR RTN	TWISTED W/ PIN 12		FJC P1	011	IDPU PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
11	IDPU PWR			N/C	N/C				
12	IDPU PWR	TWISTED W/ PIN 10		FJC P1	008	IDPU PWR	22	TPJ	M27500/-22-SE-2-U-14
13	IDPU SW PWR RTN	TWISTED W/ PIN 14		FJC P1	019	IDPU SW PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
14	IDPU SW PWR	TWISTED W/ PIN 13		FJC P1	016	IDPU SW PWR	22	TPJ	M27500/-22-SE-2-U-14
15	PCB BUS RTN	TWISTED W/ PIN 1		CCB P2	11	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
16	PCB BUS RTN	TWISTED W/ PIN 2		CCB P2	12	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
17	PCB BUS RTN	TWISTED W/ PIN 3		CCB P2	13	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
18	PCB BUS RTN	TWISTED W/ PIN 4		CCB P2	28	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
19	PCB BUS RTN	TWISTED W/ PIN 5		CCB P2	29	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
20	PCB BUS	TWISTED W/ PIN 33		CCB P2	23	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
21	PCB BUS	TWISTED W/ PIN 34		CCB P2	37	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
22	PCB BUS	TWISTED W/ PIN 35		CCB P2	38	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
23	PCB BUS	TWISTED W/ PIN 36		CCB P2	39	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
24	PCB BUS	TWISTED W/ PIN 37		CCB P2	40	PCB BUS	22	TPJ	M27500/-22-SE-2-U-14
25	CRYO PWR RTN	TWISTED W/ PIN 27		FJC P2	014	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
25-spl1	CRYO PWR RTN	TWISTED W/ PIN 27		FJC P2	016	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
26	CRYO PWR RTN	TWISTED W/ PIN 28		FJC P2	018	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
26-spl1	CRYO PWR RTN	TWISTED W/ PIN 28		FJC P2	020	CRYO PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
27	CRYO PWR	TWISTED W/ PIN 25		FJC P2	006	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
27-spl1	CRYO PWR	TWISTED W/ PIN 25		FJC P2	008	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
28	CRYO PWR	TWISTED W/ PIN 26		FJC P2	010	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
28-spl1	CRYO PWR	TWISTED W/ PIN 26		FJC P2	012	CRYO PWR	22	TPJ	M27500/-22-SE-2-U-14
29	IDPU PWR RTN	TWISTED W/ PIN 30		FJC P1	012	IDPU PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
30	IDPU PWR	TWISTED W/ PIN 29		FJC P1	009	IDPU PWR	22	TPJ	M27500/-22-SE-2-U-14
31	IDPU SW PWR RTN	TWISTED W/ PIN 32		FJC P1	020	IDPU SW PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
32	IDPU SW PWR	TWISTED W/ PIN 31		FJC P1	017	IDPU SW PWR	22	TPJ	M27500/-22-SE-2-U-14
33	PCB BUS RTN	TWISTED W/ PIN 20		CCB P2	30	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
34	PCB BUS RTN	TWISTED W/ PIN 21		CCB P2	44	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
35	PCB BUS RTN	TWISTED W/ PIN 22		CCB P2	45	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
36	PCB BUS RTN	TWISTED W/ PIN 23		CCB P2	46	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
37	PCB BUS RTN	TWISTED W/ PIN 24		CCB P2	47	PCB BUS RTN	22	TPJ	M27500/-22-SE-2-U-14

PCB P2

ConnType	HDD 62P
PartNo	311P407-4P-B-12
Connector MIL-C No	311P407-4P-B-12
MIL-C Pin No	G-08-P1
Backshell Part No	DC50907-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	S/C ESS BUS	TWISTED W/ PIN 22		SEM P2	13	+28V VME	22	TPJ	M27500/-22-SE-2-U-14
02	S/C ESS BUS	TWISTED W/ PIN 23		SEM P2	14	+28V VME	22	TPJ	M27500/-22-SE-2-U-14
03	S/C ESS BUS	TWISTED W/ PIN 24		SEM P2	15	+28V CPU	22	TPJ	M27500/-22-SE-2-U-14
04	S/C ESS BUS	TWISTED W/ PIN 25		SEM P2	16	+28V CPU	22	TPJ	M27500/-22-SE-2-U-14
05	S/C ESS BUS			N/C	N/C				
06	S/C ESS BUS			N/C	N/C				
07	BAT STRN GAUGE PWR			N/C	N/C				
08	BAT STRN GAUGE PWR			N/C	N/C				
09	IAD1 PWR	TWISTED W/ PIN 30		ADB P3	08	IAD1 PWR	22	TPJ	M27500/-22-SE-2-U-14
10	IAD1 PWR	TWISTED W/ PIN 31		ADB P3	27	IAD1 PWR	22	TPJ	M27500/-22-SE-2-U-14
11	IAD2 PWR	TWISTED W/ PIN 32		ADB P3	04	IAD2 PWR	22	TPJ	M27500/-22-SE-2-U-14
12	IAD2 PWR	TWISTED W/ PIN 33		ADB P3	26	IAD2 PWR	22	TPJ	M27500/-22-SE-2-U-14
13	BAT HTR2 PWR	TWISTED W/ PIN 34		BAT P2	08	BAT HTR PWR2	22	TPJ	M27500/-22-SE-2-U-14
14	BAT HTR2 PWR			N/C	N/C				
15	SPARE1 PWR	TWISTED W/ PIN 36		BAT P2	05	BAT STRN GUAGE PWR1	22	TPJ	M27500/-22-SE-2-U-14
16	SPARE1 PWR	TWISTED W/ PIN 37		BAT P2	06	BAT STRN GUAGE PWR2	22	TPJ	M27500/-22-SE-2-U-14
17	SPARE2 PWR	TWISTED W/ PIN 38		CCB P3	03	MISSION MODE RLY PWR	22	TPJ	M27500/-22-SE-2-U-14
18	SPARE2 PWR	TWISTED W/ PIN 39		CCB P3	14	MISSION MODE RLY PWR	22	TPJ	M27500/-22-SE-2-U-14
19	ADB +28V PWR	TWISTED W/ PIN 49		ADB P3	05	S/W RLSE PWR	22	TPJ	M27500/-22-SE-2-U-14
20	ADB +28V PWR	TWISTED W/ PIN 50		ADB P3	06	S/W RLSE PWR	22	TPJ	M27500/-22-SE-2-U-14
21	ADB +28V PWR	TWISTED W/ PIN 51		ADB P3	23	S/W RLSE PWR	22	TPJ	M27500/-22-SE-2-U-14
22	S/C ESS BUS RTN	TWISTED W/ PIN 1		SEM P2	29	+28V VME RTN	22	TPJ	M27500/-22-SE-2-U-14
23	S/C ESS BUS RTN	TWISTED W/ PIN 2		SEM P2	30	+28V VME RTN	22	TPJ	M27500/-22-SE-2-U-14
24	S/C ESS BUS RTN	TWISTED W/ PIN 3		SEM P2	31	+28V CPU RTN	22	TPJ	M27500/-22-SE-2-U-14
25	S/C ESS BUS RTN	TWISTED W/ PIN 4		SEM P2	32	+28V CPU RTN	22	TPJ	M27500/-22-SE-2-U-14
26	S/C ESS BUS RTN			N/C	N/C				
27	S/C ESS BUS RTN			N/C	N/C				
28	BAT STRN GAUGE PWR RTN			N/C	N/C				
29	BAT STRN GAUGE PWR RTN			N/C	N/C				
30	IAD1 PWR RTN	TWISTED W/ PIN 9		ADB P3	10	IAD1 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
31	IAD1 PWR RTN	TWISTED W/ PIN 10		ADB P3	28	IAD1 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
32	IAD2 PWR RTN	TWISTED W/ PIN 11		ADB P3	29	IAD2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
33	IAD2 PWR RTN	TWISTED W/ PIN 12		ADB P3	07	IAD2 PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
34	BAT HTR2 PWR RTN	TWISTED W/ PIN 13		BAT P2	33	BAT HTR PWR2 RTN	22	TPJ	M27500/-22-SE-2-U-14
35	BAT RTN2 PWR RTN			N/C	N/C				
36	SPARE1 PWR RTN	TWISTED W/ PIN 15		BAT P2	34	BAT STRN GUAGE PWR1 RTN	22	TPJ	M27500/-22-SE-2-U-14
37	SPARE1 PWR RTN	TWISTED W/ PIN 16		BAT P2	35	BAT STRN GUAGE PWR2 RTN	22	TPJ	M27500/-22-SE-2-U-14
38	SPARE2 PWR RTN	TWISTED W/ PIN 17		CCB P3	16	MISSION MODE RLY PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
39	SPARE2 PWR RTN	TWISTED W/ PIN 18		CCB P3	15	MISSION MODE RLY PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
40	ADB +28V PWR	TWISTED W/ PIN 52		ADB P3	24	S/W RLSE PWR	22	TPJ	M27500/-22-SE-2-U-14
41	TQDR XZ PWR	TWISTED W/ PIN 43		ADB P3	12	TQDR XZ PWR	22	TPJ	M27500/-22-SE-2-U-14
42	TQDR XZ PWR	TWISTED W/ PIN 44		ADB P3	14	TQDR XZ PWR	22	TPJ	M27500/-22-SE-2-U-14
43	TQDR XZ PWR RTN	TWISTED W/ PIN 41		ADB P3	21	TQDR XZ PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
44	TQDR XZ PWR RTN	TWISTED W/ PIN 42		ADB P3	25	TQDR XZ PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
45	TQDR YZ PWR	TWISTED W/ PIN 47		ADB P3	16	TQDR YZ PWR	22	TPJ	M27500/-22-SE-2-U-14
46	TQDR YZ PWR	TWISTED W/ PIN 48		ADB P3	18	TQDR YZ PWR	22	TPJ	M27500/-22-SE-2-U-14
47	TQDR YZ PWR RTN	TWISTED W/ PIN 45		ADB P3	31	TQDR YZ PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
48	TQDR YZ PWR RTN	TWISTED W/ PIN 46		ADB P3	33	TQDR YZ PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
49	ADB +28V PWR RTN	TWISTED W/ PIN 19		ADB P3	01	S/W RLSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
50	ADB +28V PWR RTN	TWISTED W/ PIN 20		ADB P3	02	S/W RLSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14

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51	ADB +28V PWR RTN	TWISTED W/ PIN 21		ADB P3	03	S/W RLSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
52	ADB +28V PWR RTN	TWISTED W/ PIN 40		ADB P3	20	S/W RLSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
53	N/C			N/C	N/C				
54	N/C			N/C	N/C				
55	SPG			SEM P2	45	SPG	22	SCJ	M27500/-22-SE-1-U-14
56	SPG			SEM P2	46	SPG	22	SCJ	M27500/-22-SE-1-U-14
57	SPG			SEM P2	47	SPG	22	SCJ	M27500/-22-SE-1-U-14
58	SPG			SEM P2	48	SPG	22	SCJ	M27500/-22-SE-1-U-14
59	SPG			SEM P2	49	SPG	22	SCJ	M27500/-22-SE-1-U-14
60	N/C			N/C	N/C				
61	N/C			N/C	N/C				
62	N/C			N/C	N/C				

PCB P3

ConnType	HDD 78P
PartNo	311P407-5P-B-12
Connector MIL-C No	311P407-5P-B-12
MIL-C Pin No	G-08-P1
Backshell Part No	DD50908-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	SSR PWR	TWISTED W/ PIN 21		FJC P3	001	SSR PWR	22	TPJ	M27500/-22-SE-2-U-14
02	SSR PWR	TWISTED W/ PIN 22		FJC P3	002	SSR PWR	22	TPJ	M27500/-22-SE-2-U-14
03	FSE PWR	TWISTED W/ PIN 23		FJC P2	021	FSE PWR	22	TPJ	M27500/-22-SE-2-U-14
04	FSE PWR	TWISTED W/ PIN 24		FJC P2	022	FSE PWR	22	TPJ	M27500/-22-SE-2-U-14
05	XMTR SW (FWD) PWR	TWISTED W/ PIN 12		FJC P2	042	POS1 +28V PWR	22	TPJ	M27500/-22-SE-2-U-14
06	XMTR SW (AFT) PWR	TWISTED W/ PIN 31		FJC P2	043	POS2 +28V PWR	22	TPJ	M27500/-22-SE-2-U-14
07	XPD HTR PWR	TWISTED W/ PIN 27	SHELL	XPD ICP1	A	XPD HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
08	XPD HTR PWR	TWISTED W/ PIN 28	SHELL	XPD ICP1	D	XPD HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
09	SSR HTR PWR	TWISTED W/ PIN 29		FJC P3	095	SSR HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
10	SSR HTR PWR	TWISTED W/ PIN 30		FJC P3	097	SSR HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
11	SPARE			N/C	N/C				
12	XMTR SW (FWD) RTN	TWISTED W/ PIN 5		FJC P2	044	28V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
13	FSE HTR PWR	TWISTED W/ PIN 33		FJC P2	036	FSE HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
14	FSE HTR PWR	TWISTED W/ PIN 34		FJC P2	037	FSE HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
15	XPD PWR	TWISTED W/ PIN 35		XPD P7	01	XPD +28VDC PWR	22	TPJ	M27500/-22-SE-2-U-14
16	XPD PWR	TWISTED W/ PIN 36		XPD P7	06	XPD +28VDC PWR	22	TPJ	M27500/-22-SE-2-U-14
17	DAMPER 1/4 HTR PWR	TWISTED W/ PIN 37		FJC P2	052	DAMPER 1 HTR	22	TPJ	M27500/-22-SE-2-U-14
17-spl1	DAMPER 1/4 HTR PWR	TWISTED W/ PIN 37		FJC P2	060	DAMPER 4 HTR	22	TPJ	M27500/-22-SE-2-U-14
18	DAMPER 2/3 HTR PWR	TWISTED W/ PIN 38		FJC P1	056	DAMPER 2 HTR	22	TPJ	M27500/-22-SE-2-U-14
18-spl1	DAMPER 2/3 HTR PWR	TWISTED W/ PIN 38		FJC P1	077	DAMPER 3 HTR	22	TPJ	M27500/-22-SE-2-U-14
19	TQRD HTR PWR	TWISTED W/ PIN 39	SHELL	TQRX ICP1	A	TQ X HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
20	TQRD HTR PWR	TWISTED W/ PIN 59	SHELL	TQRY ICP1	A	TQ Y HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
21	SSR PWR RTN	TWISTED W/ PIN 1		FJC P3	005	SSR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
22	SSR PWR RTN	TWISTED W/ PIN 2		FJC P3	006	SSR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
23	FSE PWR RTN	TWISTED W/ PIN 3		FJC P2	023	FSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
24	FSE PWR RTN	TWISTED W/ PIN 4		FJC P2	024	FSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
25	CPU INHIBIT RTN	TWISTED W/ PIN 52		SEM P2	26	CPU ON RTN	22	TPJ	M27500/-22-SE-2-U-14
26	CPU INHIBIT RTN	TWISTED W/ PIN 32		SEM P2	27	CPU ON RTN	22	TPJ	M27500/-22-SE-2-U-14
27	XPD HTR PWR RTN	TWISTED W/ PIN 7	SHELL	XPD ICP1	C	XPD HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
28	XPD HTR PWR RTN	TWISTED W/ PIN 8	SHELL	XPD ICP1	B	XPD HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
29	SSR HTR PWR RTN	TWISTED W/ PIN 9		FJC P3	096	SSR HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
30	SSR HTR PWR RTN	TWISTED W/ PIN 10		FJC P3	098	SSR HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
31	XMTR SW (AFT) RTN	TWISTED W/ PIN 6		FJC P2	045	28V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
32	CPU INHIBIT	TWISTED W/ PIN 26		SEM P2	10	CPU ON	22	TPJ	M27500/-22-SE-2-U-14
33	FSE HTR PWR RTN	TWISTED W/ PIN 13		FJC P2	038	FSE HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
34	FSE HTR PWR RTN	TWISTED W/ PIN 14		FJC P2	039	FSE HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
35	XPD PWR RTN	TWISTED W/ PIN 15		XPD P7	05	XPD +28VDC PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
36	XPD PWR RTN	TWISTED W/ PIN 16		XPD P7	09	XPD +28VDC PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
37	DAMPER 1/4 HTR PWR RTN	TWISTED W/ PIN 17		FJC P2	053	DAMPER 1 HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
37-spl1	DAMPER 1/4 HTR PWR RTN	TWISTED W/ PIN 17		FJC P2	061	DAMPER 4 HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
38	DAMPER 2/3 HTR PWR RTN	TWISTED W/ PIN 18		FJC P1	057	DAMPER 2 HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
38-spl1	DAMPER 2/3 HTR PWR RTN	TWISTED W/ PIN 18		FJC P1	078	DAMPER 3 HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
39	TQRD HTR PWR RTN	TWISTED W/ PIN 19	SHELL	TQRX ICP1	B	TQ X HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
40	SEM HTR PWR	TWISTED W/ PIN 60	SHELL	SEM ICP1	A	SEM HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
41	SEM HTR PWR	TWISTED W/ PIN 61	SHELL	SEM ICP1	D	SEM HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
42	BAT HTR1 PWR	TWISTED W/ PIN 62		BAT P2	07	BAT HTR PWR1	22	TPJ	M27500/-22-SE-2-U-14
43	BAT HTR1 PWR			N/C	N/C				
44	IDPU HTR PWR	TWISTED W/ PIN 64		FJC P1	001	IDPU HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
45	IDPU HTR PWR	TWISTED W/ PIN 65		FJC P1	002	IDPU HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
46	+15V REG VME PWR	TWISTED W/ PIN 66		FJC P1	025	MAG +15V PWR	22	TPJ	M27500/-22-SE-2-U-14

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47	+15V REG VME PWR	TWISTED W/ PIN 67		FJC P1	026	MAG +15V PWR	22	TPJ	M27500/-22-SE-2-U-14
48	-15V REG VME PWR	TWISTED W/ PIN 68		FJC P1	027	MAG -15V PWR	22	TPJ	M27500/-22-SE-2-U-14
49	-15V REG VME PWR	TWISTED W/ PIN 69		FJC P1	028	MAG -15V PWR	22	TPJ	M27500/-22-SE-2-U-14
50	IDPU SAFEMODE SIG		SHELL	IDPU P1	17	SAFE	24	SCSJ	M27500/-24-SE-1-S-14
51	SEP1 SENSE PWR	TWISTED W/ PIN 76		UMB J1	05	SEP LPBK1	22	TPJ	M27500/-22-SE-2-U-14
52	CPU INHIBIT	TWISTED W/ PIN 25		SEM P2	09	CPU ON	22	TPJ	M27500/-22-SE-2-U-14
53	XPD ON/OFF			FEP J1	35	XMT ON/OFF IN	22	SCJ	M27500/-22-SE-1-U-14
53-spl1	XPD ON/OFF			FEP J1	37	XMT ON/OFF IN	22	SCJ	M27500/-22-SE-1-U-14
54	XPD ON/OFF RTN			XPD P11	06	XMT ON/OFF RTN	22	SCJ	M27500/-22-SE-1-U-14
55	SPARE			N/C	N/C				
56	TAC CPU ON CMD	TWISTED W/ PIN 57	SHELL	TAC J1	-f	TAC CPU ON CMD	24	TPSJ	M27500/-24-SE-2-S-14
57	TAC CPU ON CMD RTN	TWISTED W/ PIN 56	SHELL	TAC J1	-j	TAC CPU ON CMD RTN	24	TPSJ	M27500/-24-SE-2-S-14
58	TAC CPU RLY STAT	TWISTED W/ PIN 72	SHELL	TAC J1	S	TAC CPU RLY STAT	24	TPSJ	M27500/-24-SE-2-S-14
59	TQRD HTR PWR RTN	TWISTED W/ PIN 20	SHELL	TQRY ICP1	B	TQ Y HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
60	SEM HTR PWR RTN	TWISTED W/ PIN 40	SHELL	SEM ICP1	C	SEM HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
61	SEM HTR PWR RTN	TWISTED W/ PIN 41	SHELL	SEM ICP1	B	SEM HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
62	BAT HTR1 PWR RTN	TWISTED W/ PIN 42		BAT P2	32	BAT HTR PWR1 RTN	22	TPJ	M27500/-22-SE-2-U-14
63	BAT HTR1 PWR RTN			N/C	N/C				
64	IDPU HTR PWR RTN	TWISTED W/ PIN 44		FJC P1	004	IDPU HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
65	IDPU HTR PWR RTN	TWISTED W/ PIN 45		FJC P1	005	IDPU HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
66	+15V REG VME PWR RTN	TWISTED W/ PIN 46		FJC P1	030	MAG +15V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
67	+15V REG VME PWR RTN	TWISTED W/ PIN 47		FJC P1	031	MAG +15V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
68	-15V REG VME PWR RTN	TWISTED W/ PIN 48		FJC P1	032	MAG -15V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
69	-15V REG VME PWR RTN	TWISTED W/ PIN 49		FJC P1	033	MAG -15V PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
70	SEP2 SENSE PWR	TWISTED W/ PIN 77		UMB J1	07	SEP LPBK2	22	TPJ	M27500/-22-SE-2-U-14
71	SEP3 SENSE PWR	TWISTED W/ PIN 78		UMB J1	09	SEP LPBK3	22	TPJ	M27500/-22-SE-2-U-14
72	TAC CPU RLY STAT RTN	TWISTED W/ PIN 58	SHELL	TAC J1	T	TAC CPU RLY STAT RTN	24	TPSJ	M27500/-24-SE-2-S-14
73	TQRD HTR PWR	TWISTED W/ PIN 74	SHELL	TQRZ ICP1	A	TQ Z HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
74	TQRD HTR PWR RTN	TWISTED W/ PIN 73	SHELL	TQRZ ICP1	B	TQ Z HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
75	N/C			N/C	N/C				
76	SEP1 SENSE PWR RTN	TWISTED W/ PIN 51		UMB J1	06	SEP LPBK1 RTN	22	TPJ	M27500/-22-SE-2-U-14
77	SEP2 SENSE PWR RTN	TWISTED W/ PIN 70		UMB J1	08	SEP LPBK2 RTN	22	TPJ	M27500/-22-SE-2-U-14
78	SEP3 SENSE PWR RTN	TWISTED W/ PIN 71		UMB J1	10	SEP LPBK3 RTN	22	TPJ	M27500/-22-SE-2-U-14

SEM ICP1

ConnType	JF P Winchester 4 Contact
PartNo	JF1P3SB
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	SEM HTR PWR	TWISTED W/ PIN C	OPEN	PCB P3	40	SEM HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
B	SEM HTR PWR RTN	TWISTED W/ PIN D	OPEN	PCB P3	61	SEM HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
C	SEM HTR PWR RTN	TWISTED W/ PIN A	OPEN	PCB P3	60	SEM HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
D	SEM HTR PWR	TWISTED W/ PIN B	OPEN	PCB P3	41	SEM HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14

SEM ICP2

ConnType	JF S Winchester 2 Contact
PartNo	JF1S1PA
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	SEM CHASSIS AD590 +	TWISTED W/ PIN B	OPEN	PACI P2	006	AD590 IN4	24	TPSJ	M27500/-24-SE-2-S-14
B	SEM CHASSIS AD590 -	TWISTED W/ PIN A	OPEN	PACI P2	032	AD590 EXC4	24	TPSJ	M27500/-24-SE-2-S-14

SEM P2

ConnType	D 50S
PartNo	311P409-5S-B-12
Connector MIL-C No	311P409-5S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DD50908-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	EEPROM WRENA			CIB P1	063	CRC21	24	SCJ	M27500/-24-SE-1-U-14
02	OCXO TEMP	TWISTED W/ PIN 18	OPEN	PACI P2	008	AD590 IN6	24	TPSJ	M27500/-24-SE-2-S-14
03	+5V		SHELL	PACI P2	095	GP ANALOG CH18	24	SCSJ	M27500/-24-SE-1-S-14
04	+15VDC CPU	TWISTED W/ PIN 21 & 37		ADB P3	34	+15V CPU	22	SCJ	M27500/-22-SE-1-U-14
05	-15VDC CPU	TWISTED W/ PIN 22 & 38		ADB P3	17	-15V CPU	22	SCJ	M27500/-22-SE-1-U-14
06	N/C			N/C	N/C				
07	VME ON	TWISTED W/ PIN 24		CCB P3	06	EB CNV ON	22	TPJ	M27500/-22-SE-2-U-14
08	VME ON	TWISTED W/ PIN 25		CCB P3	07	EB CNV ON	22	TPJ	M27500/-22-SE-2-U-14
09	CPU ON	TWISTED W/ PIN 26		PCB P3	52	CPU INHIBIT	22	TPJ	M27500/-22-SE-2-U-14
10	CPU ON	TWISTED W/ PIN 27		PCB P3	32	CPU INHIBIT	22	TPJ	M27500/-22-SE-2-U-14
11	N/C			N/C	N/C				
12	N/C			N/C	N/C				
13	+28V VME	TWISTED W/ PIN 29		PCB P2	01	S/C ESS BUS	22	TPJ	M27500/-22-SE-2-U-14
14	+28V VME	TWISTED W/ PIN 30		PCB P2	02	S/C ESS BUS	22	TPJ	M27500/-22-SE-2-U-14
15	+28V CPU	TWISTED W/ PIN 31		PCB P2	03	S/C ESS BUS	22	TPJ	M27500/-22-SE-2-U-14
16	+28V CPU	TWISTED W/ PIN 32		PCB P2	04	S/C ESS BUS	22	TPJ	M27500/-22-SE-2-U-14
17	N/C			N/C	N/C				
18	OCXO TEMP RTN	TWISTED W/ PIN 2	OPEN	PACI P2	034	AD590 EXC6	24	TPSJ	M27500/-24-SE-2-S-14
19	VME TEMP RTN	TWISTED W/ PIN 35	OPEN	PACI P2	033	AD590 EXC5	24	TPSJ	M27500/-24-SE-2-S-14
20	N/C			N/C	N/C				
21	+15VDC CPU RTN	TWISTED W/ PIN 4 & 37		ADB P3	11	+15V CPU RTN	22	SCJ	M27500/-22-SE-1-U-14
22	-15VDC CPU RTN	TWISTED W/ PIN 5 & 38		ADB P3	30	-15V CPU RTN	22	SCJ	M27500/-22-SE-1-U-14
23	N/C			N/C	N/C				
24	VME ON RTN	TWISTED W/ PIN 7		CCB P3	09	EB CNV ON RTN	22	TPJ	M27500/-22-SE-2-U-14
25	VME ON RTN	TWISTED W/ PIN 8		CCB P3	10	EB CNV ON RTN	22	TPJ	M27500/-22-SE-2-U-14
26	CPU ON RTN	TWISTED W/ PIN 9		PCB P3	25	CPU INHIBIT RTN	22	TPJ	M27500/-22-SE-2-U-14
27	CPU ON RTN	TWISTED W/ PIN 10		PCB P3	26	CPU INHIBIT RTN	22	TPJ	M27500/-22-SE-2-U-14
28	N/C			N/C	N/C				
29	+28V VME RTN	TWISTED W/ PIN 13		PCB P2	22	S/C ESS BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
30	+28V VME RTN	TWISTED W/ PIN 14		PCB P2	23	S/C ESS BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
31	+28V CPU RTN	TWISTED W/ PIN 15		PCB P2	24	S/C ESS BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
32	+28V CPU RTN	TWISTED W/ PIN 16		PCB P2	25	S/C ESS BUS RTN	22	TPJ	M27500/-22-SE-2-U-14
33	N/C			N/C	N/C				
34	N/C			N/C	N/C				
35	VME TEMP	TWISTED W/ PIN 19	OPEN	PACI P2	007	AD590 IN5	24	TPSJ	M27500/-24-SE-2-S-14
36	+5V CPU		SHELL	PACI P2	096	GP ANALOG CH19	24	SCSJ	M27500/-24-SE-1-S-14
37	+15VDC CPU	TWISTED W/ PIN 4 & 21		ADB P3	15	+15V CPU	22	SCJ	M27500/-22-SE-1-U-14
38	-15VDC CPU	TWISTED W/ PIN 5 & 22		ADB P3	36	-15V CPU	22	SCJ	M27500/-22-SE-1-U-14
39	N/C			N/C	N/C				
40	SPG			GND	GND	STRUCTURE GND	22	SCJ	M27500/-22-SE-1-U-14
41	SPG			GND	GND	STRUCTURE GND	22	SCJ	M27500/-22-SE-1-U-14
42	SPG			GND	GND	STRUCTURE GND	22	SCJ	M27500/-22-SE-1-U-14
43	SPG			GND	GND	STRUCTURE GND	22	SCJ	M27500/-22-SE-1-U-14
44	SPG			GND	GND	STRUCTURE GND	22	SCJ	M27500/-22-SE-1-U-14
45	SPG			PCB P2	55	SPG	22	SCJ	M27500/-22-SE-1-U-14
46	SPG			PCB P2	56	SPG	22	SCJ	M27500/-22-SE-1-U-14
47	SPG			PCB P2	57	SPG	22	SCJ	M27500/-22-SE-1-U-14
48	SPG			PCB P2	58	SPG	22	SCJ	M27500/-22-SE-1-U-14
49	SPG			PCB P2	59	SPG	22	SCJ	M27500/-22-SE-1-U-14
50	N/C			N/C	N/C				

SSR ICP1

ConnType	JF P Winchester 4 Contact
PartNo	JF1P3SB
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	SSR HTR PWR	TWISTED W/ PIN C	OPEN	FJC J3	095	SSR HTR PWR	22	TPJ	M27500/-22-SE-2-U-14
B	SSR HTR PWR RTN	TWISTED W/ PIN D	OPEN	FJC J3	098	SSR HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
C	SSR HTR PWR RTN	TWISTED W/ PIN A	OPEN	FJC J3	096	SSR HTR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
D	SSR HTR PWR	TWISTED W/ PIN B	OPEN	FJC J3	097	SSR HTR PWR	22	TPJ	M27500/-22-SE-2-U-14

SSR P1

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	+28V PWR	TWISTED W/ PIN 6		FJC J3	001	SSR PWR	22	TPJ	M27500/-22-SE-2-U-14
02	+28V PWR	TWISTED W/ PIN 7		FJC J3	002	SSR PWR	22	TPJ	M27500/-22-SE-2-U-14
03	CHASSIS GND			N/C	N/C				
04	SPARE			N/C	N/C				
05	N/C			N/C	N/C				
06	+28V PWR RTN	TWISTED W/ PIN 1		FJC J3	005	SSR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
07	+28V PWR RTN	TWISTED W/ PIN 2		FJC J3	006	SSR PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
08	N/C			N/C	N/C				
09	N/C			N/C	N/C				

SSR P2

ConnType	HDD 15P
PartNo	311P407-1P-B-12
Connector MIL-C No	311P407-1P-B-12
MIL-C Pin No	G-08-P1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	N/C			N/C	N/C				
02	+5V TLM	TWISTED W/ PIN 3	PIN 7	FJC J3	008	+ 5V TLM	24	TPSJ	M27500/-24-SE-2-S-14
03	DGND	TWISTED W/ PIN 2	PIN 7	N/C	N/C		24	TPSJ	M27500/-24-SE-2-S-14
04	+3.3V TLM	TWISTED W/ PIN 8	PIN 7	FJC J3	010	+ 3.3V TLM	24	TPSJ	M27500/-24-SE-2-S-14
05	AD590 +	TWISTED W/ PIN 9	OPEN	FJC J3	012	SSR TEMP	24	TPSJ	M27500/-24-SE-2-S-14
06	N/C			N/C	N/C				
07	CHASSIS GND			N/C	N/C				
08	D GND	TWISTED W/ PIN 4	PIN 7	N/C	N/C		24	TPSJ	M27500/-24-SE-2-S-14
09	AD590 -	TWISTED W/ PIN 5	OPEN	FJC J3	013	SSR TEMP RTN	24	TPSJ	M27500/-24-SE-2-S-14
10	N/C			N/C	N/C				
11	N/C			N/C	N/C				
12	N/C			N/C	N/C				
13	N/C			N/C	N/C				
14	N/C			N/C	N/C				
15	N/C			N/C	N/C				

SSR P3

ConnType	HDD 44P
PartNo	311P407-3P-B-12
Connector MIL-C No	311P407-3P-B-12
MIL-C Pin No	G-08-P1
Backshell Part No	DB50906-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CMD CLK	TWISTED W/ PIN 16	OPEN	FJC J3	016	SSR TX CMD CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
02	DGND			FJC J3	054	DGND	24	SCJ	M27500/-24-SE-1-U-14
03	CMD VALID	TWISTED W/ PIN 18	OPEN	FJC J3	018	SSR TX CMD VAL HI	24	TPSJ	M27500/-24-SE-2-S-14
04	CMD DATA	TWISTED W/ PIN 19	OPEN	FJC J3	020	SSR TX CMD DAT HI	24	TPSJ	M27500/-24-SE-2-S-14
05	REC CLK	TWISTED W/ PIN 20	OPEN	FJC J3	023	SSR REC CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
06	REC VALID	TWISTED W/ PIN 21	OPEN	FJC J3	026	SSR REC VAL HI	24	TPSJ	M27500/-24-SE-2-S-14
07	SPARE			N/C	N/C				
08	DGND			N/C	N/C				
09	REC DAT7	TWISTED W/ PIN 24	OPEN	FJC J3	035	SSR REC DAT 7 HI	24	TPSJ	M27500/-24-SE-2-S-14
10	REC DAT6	TWISTED W/ PIN 25	OPEN	FJC J3	037	SSR REC DAT 6 HI	24	TPSJ	M27500/-24-SE-2-S-14
11	REC DAT5	TWISTED W/ PIN 26	OPEN	FJC J3	039	SSR REC DAT 5 HI	24	TPSJ	M27500/-24-SE-2-S-14
12	REC DAT4 RTN	TWISTED W/ PIN 27	OPEN	FJC J3	042	SSR REC DAT 4 LO	24	TPSJ	M27500/-24-SE-2-S-14
13	REC DAT3	TWISTED W/ PIN 28	OPEN	FJC J3	043	SSR REC DAT 3 HI	24	TPSJ	M27500/-24-SE-2-S-14
14	DGND			N/C	N/C				
15	REC DAT2	TWISTED W/ PIN 30	OPEN	FJC J3	048	SSR REC DAT 2 HI	24	TPSJ	M27500/-24-SE-2-S-14
16	CMD CLK RTN	TWISTED W/ PIN 1	OPEN	FJC J3	017	SSR TX CMD CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
17	DGND			FJC J3	055	DGND	24	SCJ	M27500/-24-SE-1-U-14
18	CMD VALID RTN	TWISTED W/ PIN 3	OPEN	FJC J3	019	SSR TX CMD VAL LO	24	TPSJ	M27500/-24-SE-2-S-14
19	CMD DATA RTN	TWISTED W/ PIN 4	OPEN	FJC J3	021	SSR TX CMD DAT LO	24	TPSJ	M27500/-24-SE-2-S-14
20	REC CLK RTN	TWISTED W/ PIN 5	OPEN	FJC J3	024	SSR REC CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
21	REC VALID RTN	TWISTED W/ PIN 6	OPEN	FJC J3	027	SSR REC VAL LO	24	TPSJ	M27500/-24-SE-2-S-14
22	SPARE RTN			N/C	N/C				
23	DGND			N/C	N/C				
24	REC DAT7 RTN	TWISTED W/ PIN 9	OPEN	FJC J3	036	SSR REC DAT 7 LO	24	TPSJ	M27500/-24-SE-2-S-14
25	REC DAT6 RTN	TWISTED W/ PIN 10	OPEN	FJC J3	038	SSR REC DAT 6 LO	24	TPSJ	M27500/-24-SE-2-S-14
26	REC DAT5 RTN	TWISTED W/ PIN 11	OPEN	FJC J3	040	SSR REC DAT 5 LO	24	TPSJ	M27500/-24-SE-2-S-14
27	REC DAT4	TWISTED W/ PIN 12	OPEN	FJC J3	041	SSR REC DAT 4 HI	24	TPSJ	M27500/-24-SE-2-S-14
28	REC DAT3 RTN	TWISTED W/ PIN 13	OPEN	FJC J3	044	SSR REC DAT 3 LO	24	TPSJ	M27500/-24-SE-2-S-14
29	DGND			N/C	N/C				
30	REC DAT2 RTN	TWISTED W/ PIN 15	OPEN	FJC J3	049	SSR REC DAT 2 LO	24	TPSJ	M27500/-24-SE-2-S-14
31	CHASSIS GND			N/C	N/C				
32	DGND			N/C	N/C				
33	REC DAT1	TWISTED W/ PIN 34	OPEN	FJC J3	050	SSR REC DAT 1 HI	24	TPSJ	M27500/-24-SE-2-S-14
34	REC DAT1 RTN	TWISTED W/ PIN 33	OPEN	FJC J3	051	SSR REC DAT 1 LO	24	TPSJ	M27500/-24-SE-2-S-14
35	REC DAT0	TWISTED W/ PIN 36	OPEN	FJC J3	052	SSR REC DAT 0 HI	24	TPSJ	M27500/-24-SE-2-S-14
36	REC DAT0 RTN	TWISTED W/ PIN 35	OPEN	FJC J3	053	SSR REC DAT 0 LO	24	TPSJ	M27500/-24-SE-2-S-14
37	RECDR READY	TWISTED W/ PIN 38	OPEN	FJC J3	029	SSR REC READY HI	24	TPSJ	M27500/-24-SE-2-S-14
38	RECRD READY RTN	TWISTED W/ PIN 37	OPEN	FJC J3	030	SSR REC READY LO	24	TPSJ	M27500/-24-SE-2-S-14
39	CMD READY	TWISTED W/ PIN 40	OPEN	FJC J3	032	SSR CMD RDY FLAG HI	24	TPSJ	M27500/-24-SE-2-S-14
40	CMD READY RTN	TWISTED W/ PIN 39	OPEN	FJC J3	033	SSR CMD RDY FLAG LO	24	TPSJ	M27500/-24-SE-2-S-14
41	SPARE			N/C	N/C				
42	SPARE RTN			N/C	N/C				
43	DGND			N/C	N/C				
44	CHASSIS GND	SHLD RTN		N/C	N/C				

SSR P4

ConnType	HDD 44S
PartNo	311P407-3S-B-12
Connector MIL-C No	311P407-3S-B-12
MIL-C Pin No	G-08-S1
Backshell Part No	DB50906-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	TLM CLK	TWISTED W/ PIN 16	OPEN	FJC J3	056	SSR TLM CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
02	DGND			FJC J3	093	DGND	24	SCJ	M27500/-24-SE-1-U-14
03	RECDR TLM VALID	TWISTED W/ PIN 18	PIN 44	FJC J3	058	SSR TLM VAL HI	24	TPSJ	M27500/-24-SE-2-S-14
04	RECDR TLM DATA	TWISTED W/ PIN 19	PIN 44	FJC J3	060	SSR TLM DAT HI	24	TPSJ	M27500/-24-SE-2-S-14
05	RECDR PLYBK CLK	TWISTED W/ PIN 20	PIN 44	FJC J3	063	SSR PLYBK CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
06	RECDR PLYBK VALID	TWISTED W/ PIN 21	PIN 44	FJC J3	065	SSR PLYBK VAL HI	24	TPSJ	M27500/-24-SE-2-S-14
07	RECDR PLYBK DAT7	TWISTED W/ PIN 22	PIN 44	FJC J3	067	SSR PLYBK DAT 7 HI	24	TPSJ	M27500/-24-SE-2-S-14
08	DGND			FJC J3	091	DGND	24	SCJ	M27500/-24-SE-1-U-14
09	RECDR PLYBK DAT6	TWISTED W/ PIN 24	PIN 44	FJC J3	069	SSR PLYBK DAT 6 HI	24	TPSJ	M27500/-24-SE-2-S-14
10	RECDR PLYBK DAT5	TWISTED W/ PIN 25	PIN 44	FJC J3	071	SSR PLYBK DAT 5 HI	24	TPSJ	M27500/-24-SE-2-S-14
11	RECDR PLYBK DAT4	TWISTED W/ PIN 26	PIN 44	FJC J3	073	SSR PLYBK DAT 4 HI	24	TPSJ	M27500/-24-SE-2-S-14
12	RECDR PLYBK DAT3	TWISTED W/ PIN 27	PIN 44	FJC J3	075	SSR PLYBK DAT 3 HI	24	TPSJ	M27500/-24-SE-2-S-14
13	RECDR PLYBK DAT2	TWISTED W/ PIN 28	PIN 44	FJC J3	078	SSR PLYBK DAT 2 HI	24	TPSJ	M27500/-24-SE-2-S-14
14	DGND			N/C	N/C				
15	RECDR PLYBK DAT1	TWISTED W/ PIN 30	PIN 44	FJC J3	080	SSR PLYBK DAT 1 HI	24	TPSJ	M27500/-24-SE-2-S-14
16	TLM CLK RTN	TWISTED W/ PIN 1	OPEN	FJC J3	057	SSR TLM CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
17	DGND			FJC J3	062	DGND	24	SCJ	M27500/-24-SE-1-U-14
18	RECDR TLM VALID RTN	TWISTED W/ PIN 3	PIN 44	FJC J3	059	SSR TLM VAL LO	24	TPSJ	M27500/-24-SE-2-S-14
19	RECDR TLM DATA RTN	TWISTED W/ PIN 4	PIN 44	FJC J3	061	SSR TLM DAT LO	24	TPSJ	M27500/-24-SE-2-S-14
20	RECDR PLYBK CLK RTN	TWISTED W/ PIN 5	PIN 44	FJC J3	064	SSR PLYBK CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
21	RECDR PLYBK VALID RTN	TWISTED W/ PIN 6	PIN 44	FJC J3	066	SSR PLYBK VAL LO	24	TPSJ	M27500/-24-SE-2-S-14
22	RECDR PLYBK DAT7 RTN	TWISTED W/ PIN 7	PIN 44	FJC J3	068	SSR PLYBK DAT 7 LO	24	TPSJ	M27500/-24-SE-2-S-14
23	DGND			FJC J3	092	DGND	24	SCJ	M27500/-24-SE-1-U-14
24	RECDR PLYBK DAT6 RTN	TWISTED W/ PIN 9	PIN 44	FJC J3	070	SSR PLYBK DAT 6 LO	24	TPSJ	M27500/-24-SE-2-S-14
25	RECDR PLYBK DAT5 RTN	TWISTED W/ PIN 10	PIN 44	FJC J3	072	SSR PLYBK DAT 5 LO	24	TPSJ	M27500/-24-SE-2-S-14
26	RECDR PLYBK DAT4 RTN	TWISTED W/ PIN 11	PIN 44	FJC J3	074	SSR PLYBK DAT 4 LO	24	TPSJ	M27500/-24-SE-2-S-14
27	RECDR PLYBK DAT3 RTN	TWISTED W/ PIN 12	PIN 44	FJC J3	076	SSR PLYBK DAT 3 LO	24	TPSJ	M27500/-24-SE-2-S-14
28	RECDR PLYBK DAT2 RTN	TWISTED W/ PIN 13	PIN 44	FJC J3	079	SSR PLYBK DAT 2 LO	24	TPSJ	M27500/-24-SE-2-S-14
29	DGND			N/C	N/C				
30	RECDR PLYBK DAT1 RTN	TWISTED W/ PIN 15	PIN 44	FJC J3	081	SSR PLYBK DAT 1 LO	24	TPSJ	M27500/-24-SE-2-S-14
31	CHASSIS GND			N/C	N/C				
33	RECDR PLYBK DAT0	TWISTED W/ PIN 34	PIN 44	FJC J3	082	SSR PLYBK DAT 0 HI	24	TPSJ	M27500/-24-SE-2-S-14
34	RECDR PLYBK DAT0 RTN	TWISTED W/ PIN 33	PIN 44	FJC J3	083	SSR PLYBK DAT 0 LO	24	TPSJ	M27500/-24-SE-2-S-14
35	PLYBK CLK	TWISTED W/ PIN 36	OPEN	FJC J3	086	SSR PLYBK CLK HI	24	TPSJ	M27500/-24-SE-2-S-14
36	PLYBK CLK RTN	TWISTED W/ PIN 35	OPEN	FJC J3	087	SSR PLYBK CLK LO	24	TPSJ	M27500/-24-SE-2-S-14
37	PLYBK RDY	TWISTED W/ PIN 38	OPEN	FJC J3	088	SSR PLYBK RDY HI	24	TPSJ	M27500/-24-SE-2-S-14
38	PLYBK RDY RTN	TWISTED W/ PIN 37	OPEN	FJC J3	089	SSR PLYBK RDY LO	24	TPSJ	M27500/-24-SE-2-S-14
39	SPARE			N/C	N/C				
40	SPARE RTN			N/C	N/C				
41	SPARE			N/C	N/C				
42	SPARE RTN			N/C	N/C				
43	DGND			N/C	N/C				
44	CHASSIS GND	SHLD RTN		N/C	N/C				

SW1 J1

ConnType	D 15S
PartNo	311P409-2S-B-12
Connector MIL-C No	311P409-2S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 1/2 PWR RTN	TWISTED W/ PIN 3		FJC J2	050	S/W 1 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
02	N/C			N/C	N/C				
03	CKT 1/2 PWR	TWISTED W/ PIN 1		FJC J2	048	S/W 1 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
04	N/C			N/C	N/C				
05	N/C			N/C	N/C				
06	DAMPER HTR	TWISTED W/ PIN 13		FJC J2	052	DAMPER 1 HTR	22	TPJ	M27500/-22-SE-2-U-14
07	SUN SENSOR 1	TWISTED W/ PIN 15	PIN 8	FJC J2	054	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD			N/C	N/C				
09	CKT 1/2 PWR RTN	TWISTED W/ PIN 11		FJC J2	051	S/W 1 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
10	N/C			N/C	N/C				
11	CKT 1/2 PWR	TWISTED W/ PIN 9		FJC J2	049	S/W 1 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
12	N/C			N/C	N/C				
13	DAMPER HTR RTN	TWISTED W/ PIN 6		FJC J2	053	DAMPER 1 HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
14	N/C			N/C	N/C				
15	SUN SENSOR 1 RTN	TWISTED W/ PIN 7	PIN 8	FJC J2	055	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW1 J2

ConnType	D 15S
PartNo	311P409-2S-B-12
Connector MIL-C No	311P409-2S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 3/4 PWR RTN	TWISTED W/ PIN 3		FJC J1	044	S/W 1 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
02	N/C			N/C	N/C				
03	CKT 3/4 PWR	TWISTED W/ PIN 1		FJC J1	041	S/W 1 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
04	N/C			N/C	N/C				
05	SHLD			N/C	N/C				
06	TEMP SENSOR 1	TWISTED W/ PIN 13	PIN 5	FJC J1	046	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
07	SUN SENSOR 2	TWISTED W/ PIN 15	PIN 8	FJC J1	048	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD			N/C	N/C				
09	CKT 3/4 PWR RTN	TWISTED W/ PIN 11		FJC J1	045	S/W 1 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
10	N/C			N/C	N/C				
11	CKT 3/4 PWR	TWISTED W/ PIN 9		FJC J1	042	S/W 1 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
12	N/C			N/C	N/C				
13	TEMP SENSOR 1 RTN	TWISTED W/ PIN 6	PIN 5	FJC J1	047	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
14	N/C			N/C	N/C				
15	SUN SENSOR 2 RTN	TWISTED W/ PIN 7	PIN 8	FJC J1	049	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW1 P1

ConnType	D 15P
PartNo	311P409-2P-B-12
Connector MIL-C No	311P409-2P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 1/2 PWR RTN			SWA1 P1	A-09	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
02	N/C			N/C	N/C				
03	CKT 1/2 PWR			SWA1 P1	A-01	CKT 1/2 PWR	22	SC	M22759/34-22-9
04	N/C			N/C	N/C				
05	N/C			N/C	N/C				
06	DAMPER HTR			SWA1 P1	A-04	DAMPER HTR	22	SC	M22759/34-22-9
07	SUN SENSOR 1	TWISTED W/ PIN 15	PIN 8	SWA1 P1	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD	SHLD CARRY THRU		SWA1 P1	A-08	SHLD			
09	CKT 1/2 PWR RTN			SWA1 P1	A-10	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
10	N/C			N/C	N/C				
11	CKT 1/2 PWR			SWA1 P1	A-02	CKT 1/2 PWR	22	SC	M22759/34-22-9
12	N/C			N/C	N/C				
13	DAMPER HTR RTN			SWA1 P1	A-05	DAMPER HTR RTN	22	SC	M22759/34-22-9
14	N/C			N/C	N/C				
15	SUN SENSOR 1 RTN	TWISTED W/ PIN 7	PIN 8	SWA1 P1	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW1 P2

ConnType	D 15P
PartNo	311P409-2P-B-12
Connector MIL-C No	311P409-2P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 3/4 PWR RTN			SWA1 P1	B-09	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
02	N/C			N/C	N/C				
03	CKT 3/4 PWR			SWA1 P1	B-01	CKT 3/4 PWR	22	SC	M22759/34-22-9
04	N/C			N/C	N/C				
05	SHLD	SHLD CARRY THRU		SWA1 P1	B-05	SHLD			
06	TEMP SENSOR 1	TWISTED W/ PIN 13	PIN 5	SWA1 P1	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
07	SUN SENSOR 2	TWISTED W/ PIN 15	PIN 8	SWA1 P1	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD	SHLD CARRY THRU		SWA1 P1	B-08	SHLD			
09	CKT 3/4 PWR RTN			SWA1 P1	B-10	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
10	N/C			N/C	N/C				
11	CKT 3/4 PWR			SWA1 P1	B-02	CKT 3/4 PWR	22	SC	M22759/34-22-9
12	N/C			N/C	N/C				
13	TEMP SENSOR 1 RTN	TWISTED W/ PIN 6	PIN 5	SWA1 P1	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
14	N/C			N/C	N/C				
15	SUN SENSOR 2 RTN	TWISTED W/ PIN 7	PIN 8	SWA1 P1	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW2 J1

ConnType	D 15S
PartNo	311P409-2S-B-12
Connector MIL-C No	311P409-2S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 1/2 PWR RTN	TWISTED W/ PIN 3		FJC J1	054	S/W 2 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
02	N/C			N/C	N/C				
03	CKT 1/2 PWR	TWISTED W/ PIN 1		FJC J1	051	S/W 2 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
04	N/C			N/C	N/C				
05	N/C			N/C	N/C				
06	DAMPER HTR	TWISTED W/ PIN 13		FJC J1	056	DAMPER 2 HTR	22	TPJ	M27500/-22-SE-2-U-14
07	SUN SENSOR 1	TWISTED W/ PIN 15	PIN 8	FJC J1	058	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD			N/C	N/C				
09	CKT 1/2 PWR RTN	TWISTED W/ PIN 11		FJC J1	055	S/W 2 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
10	N/C			N/C	N/C				
11	CKT 1/2 PWR	TWISTED W/ PIN 9		FJC J1	052	S/W 2 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
12	N/C			N/C	N/C				
13	DAMPER HTR RTN	TWISTED W/ PIN 6		FJC J1	057	DAMPER 2 HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
14	N/C			N/C	N/C				
15	SUN SENSOR 1 RTN	TWISTED W/ PIN 7	PIN 8	FJC J1	059	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW2 J2

ConnType	D 15S
PartNo	311P409-2S-B-12
Connector MIL-C No	311P409-2S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 3/4 PWR RTN	TWISTED W/ PIN 3		FJC J1	064	S/W 2 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
02	N/C			N/C	N/C				
03	CKT 3/4 PWR	TWISTED W/ PIN 1		FJC J1	061	S/W 2 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
04	N/C			N/C	N/C				
05	SHLD			N/C	N/C				
06	TEMP SENSOR 1	TWISTED W/ PIN 13	PIN 5	FJC J1	067	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
07	SUN SENSOR 2	TWISTED W/ PIN 15	PIN 8	FJC J1	069	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD			N/C	N/C				
09	CKT 3/4 PWR RTN	TWISTED W/ PIN 11		FJC J1	065	S/W 2 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
10	N/C			N/C	N/C				
11	CKT 3/4 PWR	TWISTED W/ PIN 9		FJC J1	062	S/W 2 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
12	N/C			N/C	N/C				
13	TEMP SENSOR 1 RTN	TWISTED W/ PIN 6	PIN 5	FJC J1	068	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
14	N/C			N/C	N/C				
15	SUN SENSOR 2 RTN	TWISTED W/ PIN 7	PIN 8	FJC J1	070	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW2 P1

ConnType	D 15P
PartNo	311P409-2P-B-12
Connector MIL-C No	311P409-2P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 1/2 PWR RTN			SWA2 P1	A-09	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
02	N/C			N/C	N/C				
03	CKT 1/2 PWR			SWA2 P1	A-01	CKT 1/2 PWR	22	SC	M22759/34-22-9
04	N/C			N/C	N/C				
05	N/C			N/C	N/C				
06	DAMPER HTR			SWA2 P1	A-04	DAMPER HTR	22	SC	M22759/34-22-9
07	SUN SENSOR 1	TWISTED W/ PIN 15	PIN 8	SWA2 P1	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD	SHLD CARRY THRU		SWA2 P1	A-08	SHLD			
09	CKT 1/2 PWR RTN			SWA2 P1	A-10	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
10	N/C			N/C	N/C				
11	CKT 1/2 PWR			SWA2 P1	A-02	CKT 1/2 PWR	22	SC	M22759/34-22-9
12	N/C			N/C	N/C				
13	DAMPER HTR RTN			SWA2 P1	A-05	DAMPER HTR RTN	22	SC	M22759/34-22-9
14	N/C			N/C	N/C				
15	SUN SENSOR 1 RTN	TWISTED W/ PIN 7	PIN 8	SWA2 P1	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW2 P2

ConnType	D 15P
PartNo	311P409-2P-B-12
Connector MIL-C No	311P409-2P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 3/4 PWR RTN			SWA2 P1	B-09	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
02	N/C			N/C	N/C				
03	CKT 3/4 PWR			SWA2 P1	B-01	CKT 3/4 PWR	22	SC	M22759/34-22-9
04	N/C			N/C	N/C				
05	SHLD	SHLD CARRY THRU		SWA2 P1	B-05	SHLD			
06	TEMP SENSOR 1	TWISTED W/ PIN 13	PIN 5	SWA2 P1	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
07	SUN SENSOR 2	TWISTED W/ PIN 15	PIN 8	SWA2 P1	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD	SHLD CARRY THRU		SWA2 P1	B-08	SHLD			
09	CKT 3/4 PWR RTN			SWA2 P1	B-10	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
10	N/C			N/C	N/C				
11	CKT 3/4 PWR			SWA2 P1	B-02	CKT 3/4 PWR	22	SC	M22759/34-22-9
12	N/C			N/C	N/C				
13	TEMP SENSOR 1 RTN	TWISTED W/ PIN 6	PIN 5	SWA2 P1	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
14	N/C			N/C	N/C				
15	SUN SENSOR 2 RTN	TWISTED W/ PIN 7	PIN 8	SWA2 P1	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW3 J1

ConnType	D 15S
PartNo	311P409-2S-B-12
Connector MIL-C No	311P409-2S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 1/2 PWR RTN	TWISTED W/ PIN 3		FJC J1	075	S/W 3 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
02	N/C			N/C	N/C				
03	CKT 1/2 PWR	TWISTED W/ PIN 1		FJC J1	072	S/W 3 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
04	N/C			N/C	N/C				
05	N/C			N/C	N/C				
06	DAMPER HTR	TWISTED W/ PIN 13		FJC J1	077	DAMPER 3 HTR	22	TPJ	M27500/-22-SE-2-U-14
07	SUN SENSOR 1	TWISTED W/ PIN 15	PIN 8	FJC J1	079	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD			N/C	N/C				
09	CKT 1/2 PWR RTN	TWISTED W/ PIN 11		FJC J1	076	S/W 3 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
10	N/C			N/C	N/C				
11	CKT 1/2 PWR	TWISTED W/ PIN 9		FJC J1	073	S/W 3 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
12	N/C			N/C	N/C				
13	DAMPER HTR RTN	TWISTED W/ PIN 6		FJC J1	078	DAMPER 3 HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
14	N/C			N/C	N/C				
15	SUN SENSOR 1 RTN	TWISTED W/ PIN 7	PIN 8	FJC J1	080	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW3 J2

ConnType	D 15S
PartNo	311P409-2S-B-12
Connector MIL-C No	311P409-2S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 3/4 PWR RTN	TWISTED W/ PIN 3		FJC J2	074	S/W 3 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
02	N/C			N/C	N/C				
03	CKT 3/4 PWR	TWISTED W/ PIN 1		FJC J2	072	S/W 3 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
04	N/C			N/C	N/C				
05	SHLD			N/C	N/C				
06	TEMP SENSOR 1	TWISTED W/ PIN 13	PIN 5	FJC J2	076	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
07	SUN SENSOR 2	TWISTED W/ PIN 15	PIN 8	FJC J2	078	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD			N/C	N/C				
09	CKT 3/4 PWR RTN	TWISTED W/ PIN 11		FJC J2	075	S/W 3 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
10	N/C			N/C	N/C				
11	CKT 3/4 PWR	TWISTED W/ PIN 9		FJC J2	073	S/W 3 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
12	N/C			N/C	N/C				
13	TEMP SENSOR 1 RTN	TWISTED W/ PIN 6	PIN 5	FJC J2	077	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
14	N/C			N/C	N/C				
15	SUN SENSOR 2 RTN	TWISTED W/ PIN 7	PIN 8	FJC J2	079	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW3 P1

ConnType	D 15P
PartNo	311P409-2P-B-12
Connector MIL-C No	311P409-2P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 1/2 PWR RTN			SWA3 P1	A-09	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
02	N/C			N/C	N/C				
03	CKT 1/2 PWR			SWA3 P1	A-01	CKT 1/2 PWR	22	SC	M22759/34-22-9
04	N/C			N/C	N/C				
05	N/C			N/C	N/C				
06	DAMPER HTR			SWA3 P1	A-04	DAMPER HTR	22	SC	M22759/34-22-9
07	SUN SENSOR 1	TWISTED W/ PIN 15	PIN 8	SWA3 P1	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD	SHLD CARRY THRU		SWA3 P1	A-08	SHLD			
09	CKT 1/2 PWR RTN			SWA3 P1	A-10	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
10	N/C			N/C	N/C				
11	CKT 1/2 PWR			SWA3 P1	A-02	CKT 1/2 PWR	22	SC	M22759/34-22-9
12	N/C			N/C	N/C				
13	DAMPER HTR RTN			SWA3 P1	A-05	DAMPER HTR RTN	22	SC	M22759/34-22-9
14	N/C			N/C	N/C				
15	SUN SENSOR 1 RTN	TWISTED W/ PIN 7	PIN 8	SWA3 P1	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW3 P2

ConnType	D 15P
PartNo	311P409-2P-B-12
Connector MIL-C No	311P409-2P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 3/4 PWR RTN			SWA3 P1	B-09	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
02	N/C			N/C	N/C				
03	CKT 3/4 PWR			SWA3 P1	B-01	CKT 3/4 PWR	22	SC	M22759/34-22-9
04	N/C			N/C	N/C				
05	SHLD	SHLD CARRY THRU		SWA3 P1	B-05	SHLD			
06	TEMP SENSOR 1	TWISTED W/ PIN 13	PIN 5	SWA3 P1	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
07	SUN SENSOR 2	TWISTED W/ PIN 15	PIN 8	SWA3 P1	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD	SHLD CARRY THRU		SWA3 P1	B-08	SHLD			
09	CKT 3/4 PWR RTN			SWA3 P1	B-10	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
10	N/C			N/C	N/C				
11	CKT 3/4 PWR			SWA3 P1	B-02	CKT 3/4 PWR	22	SC	M22759/34-22-9
12	N/C			N/C	N/C				
13	TEMP SENSOR 1 RTN	TWISTED W/ PIN 6	PIN 5	SWA3 P1	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
14	N/C			N/C	N/C				
15	SUN SENSOR 2 RTN	TWISTED W/ PIN 7	PIN 8	SWA3 P1	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW4 J1

ConnType	D 15S
PartNo	311P409-2S-B-12
Connector MIL-C No	311P409-2S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 1/2 PWR RTN	TWISTED W/ PIN 3		FJC J2	058	S/W 4 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
02	N/C			N/C	N/C				
03	CKT 1/2 PWR	TWISTED W/ PIN 1		FJC J2	056	S/W 4 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
04	N/C			N/C	N/C				
05	N/C			N/C	N/C				
06	DAMPER HTR	TWISTED W/ PIN 13		FJC J2	060	DAMPER 4 HTR	22	TPJ	M27500/-22-SE-2-U-14
07	SUN SENSOR 1	TWISTED W/ PIN 15	PIN 8	FJC J2	062	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD			N/C	N/C				
09	CKT 1/2 PWR RTN	TWISTED W/ PIN 11		FJC J2	059	S/W 4 PWR CKT 1/2 RTN	22	TPJ	M27500/-22-SE-2-U-14
10	N/C			N/C	N/C				
11	CKT 1/2 PWR	TWISTED W/ PIN 9		FJC J2	057	S/W 4 PWR CKT 1/2	22	TPJ	M27500/-22-SE-2-U-14
12	N/C			N/C	N/C				
13	DAMPER HTR RTN	TWISTED W/ PIN 6		FJC J2	061	DAMPER 4 HTR RTN	22	TPJ	M27500/-22-SE-2-U-14
14	N/C			N/C	N/C				
15	SUN SENSOR 1 RTN	TWISTED W/ PIN 7	PIN 8	FJC J2	063	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW4 J2

ConnType	D 15S
PartNo	311P409-2S-B-12
Connector MIL-C No	311P409-2S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 3/4 PWR RTN	TWISTED W/ PIN 3		FJC J2	066	S/W 4 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
02	N/C			N/C	N/C				
03	CKT 3/4 PWR	TWISTED W/ PIN 1		FJC J2	064	S/W 4 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
04	N/C			N/C	N/C				
05	SHLD			N/C	N/C				
06	TEMP SENSOR 1	TWISTED W/ PIN 13	PIN 5	FJC J2	068	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
07	SUN SENSOR 2	TWISTED W/ PIN 15	PIN 8	FJC J2	070	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD			N/C	N/C				
09	CKT 3/4 PWR RTN	TWISTED W/ PIN 11		FJC J2	067	S/W 4 PWR CKT 3/4 RTN	22	TPJ	M27500/-22-SE-2-U-14
10	N/C			N/C	N/C				
11	CKT 3/4 PWR	TWISTED W/ PIN 9		FJC J2	065	S/W 4 PWR CKT 3/4	22	TPJ	M27500/-22-SE-2-U-14
12	N/C			N/C	N/C				
13	TEMP SENSOR 1 RTN	TWISTED W/ PIN 6	PIN 5	FJC J2	069	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
14	N/C			N/C	N/C				
15	SUN SENSOR 2 RTN	TWISTED W/ PIN 7	PIN 8	FJC J2	071	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW4 P1

ConnType	D 15P
PartNo	311P409-2P-B-12
Connector MIL-C No	311P409-2P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 1/2 PWR RTN			SWA4 P1	A-09	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
02	N/C			N/C	N/C				
03	CKT 1/2 PWR			SWA4 P1	A-01	CKT 1/2 PWR	22	SC	M22759/34-22-9
04	N/C			N/C	N/C				
05	N/C			N/C	N/C				
06	DAMPER HTR			SWA4 P1	A-04	DAMPER HTR	22	SC	M22759/34-22-9
07	SUN SENSOR 1	TWISTED W/ PIN 15	PIN 8	SWA4 P1	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD	SHLD CARRY THRU		SWA4 P1	A-08	SHLD			
09	CKT 1/2 PWR RTN			SWA4 P1	A-10	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
10	N/C			N/C	N/C				
11	CKT 1/2 PWR			SWA4 P1	A-02	CKT 1/2 PWR	22	SC	M22759/34-22-9
12	N/C			N/C	N/C				
13	DAMPER HTR RTN			SWA4 P1	A-05	DAMPER HTR RTN	22	SC	M22759/34-22-9
14	N/C			N/C	N/C				
15	SUN SENSOR 1 RTN	TWISTED W/ PIN 7	PIN 8	SWA4 P1	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SW4 P2

ConnType	D 15P
PartNo	311P409-2P-B-12
Connector MIL-C No	311P409-2P-B-12
MIL-C Pin No	G-10-P1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	CKT 3/4 PWR RTN			SWA4 P1	B-09	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
02	N/C			N/C	N/C				
03	CKT 3/4 PWR			SWA4 P1	B-01	CKT 3/4 PWR	22	SC	M22759/34-22-9
04	N/C			N/C	N/C				
05	SHLD	SHLD CARRY THRU		SWA4 P1	B-05	SHLD			
06	TEMP SENSOR 1	TWISTED W/ PIN 13	PIN 5	SWA4 P1	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
07	SUN SENSOR 2	TWISTED W/ PIN 15	PIN 8	SWA4 P1	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
08	SHLD	SHLD CARRY THRU		SWA4 P1	B-08	SHLD			
09	CKT 3/4 PWR RTN			SWA4 P1	B-10	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
10	N/C			N/C	N/C				
11	CKT 3/4 PWR			SWA4 P1	B-02	CKT 3/4 PWR	22	SC	M22759/34-22-9
12	N/C			N/C	N/C				
13	TEMP SENSOR 1 RTN	TWISTED W/ PIN 6	PIN 5	SWA4 P1	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
14	N/C			N/C	N/C				
15	SUN SENSOR 2 RTN	TWISTED W/ PIN 7	PIN 8	SWA4 P1	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14

SWA1 P1

ConnType	MTCP 20S
PartNo	MTC100JH1P22/MTCP-122-20S
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0165
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	CKT 1/2 PWR			SW1 P1	03	CKT 1/2 PWR	22	SC	M22759/34-22-9
A-02	CKT 1/2 PWR			SW1 P1	11	CKT 1/2 PWR	22	SC	M22759/34-22-9
A-03	SPARE			N/C	N/C				
A-04	DAMPER HTR			SW1 P1	06	DAMPER HTR	22	SC	M22759/34-22-9
A-05	DAMPER HTR RTN			SW1 P1	13	DAMPER HTR RTN	22	SC	M22759/34-22-9
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SW1 P1	07	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SW1 P1	15	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SW1 P1	08	SHLD			
A-09	CKT 1/2 PWR RTN			SW1 P1	01	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
A-10	CKT 1/2 PWR RTN			SW1 P1	09	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
B-01	CKT 3/4 PWR			SW1 P2	03	CKT 3/4 PWR	22	SC	M22759/34-22-9
B-02	CKT 3/4 PWR			SW1 P2	11	CKT 3/4 PWR	22	SC	M22759/34-22-9
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SW1 P2	06	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SW1 P2	13	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SW1 P2	05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SW1 P2	07	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SW1 P2	15	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SW1 P2	08	SHLD			
B-09	CKT 3/4 PWR RTN			SW1 P2	01	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
B-10	CKT 3/4 PWR RTN			SW1 P2	09	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9

SWA1 P2

ConnType	MTCP 20P
PartNo	MTC100JH1P22/MTCP-122-20P
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0166
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SWA1 P3	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SWA1 P3	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SWA1 P3	A-08	SHLD			
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	CKT 3/4 PWR			SWA1 P3	B-01	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-02	CKT 3/4 PWR			SWA1 P3	B-02	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SWA1 P3	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SWA1 P3	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SWA1 P3	B-05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SWA1 P3	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SWA1 P3	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SWA1 P3	B-08	SHLD			
B-09	CKT 3/4 PWR RTN			SWA1 P3	B-09	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
B-10	CKT 3/4 PWR RTN			SWA1 P3	B-10	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14

SWA1 P3

ConnType	MTCP 20P
PartNo	MTC100JH1P22/MTCP-122-20P
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0166
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SWA1 P2	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SWA1 P2	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SWA1 P2	A-08	SHLD			
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	CKT 3/4 PWR			SWA1 P2	B-01	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-02	CKT 3/4 PWR			SWA1 P2	B-02	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SWA1 P2	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SWA1 P2	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SWA1 P2	B-05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SWA1 P2	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SWA1 P2	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SWA1 P2	B-08	SHLD			
B-09	CKT 3/4 PWR RTN			SWA1 P2	B-09	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
B-10	CKT 3/4 PWR RTN			SWA1 P2	B-10	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14

SWA1 P4

ConnType	MTCP 20S
PartNo	MTC100JH1P22/MTCP-122-20S
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0165
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A		-	CSS1 SIG	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A		+	CSS1 SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD			N/C	N/C				
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	SPARE			N/C	N/C				
B-02	SPARE			N/C	N/C				
B-03	SPARE			N/C	N/C				
B-04	SPARE			N/C	N/C				
B-05	SPARE			N/C	N/C				
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B		-	CSS2 SIG	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B		+	CSS2 SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD			N/C	N/C				
B-09	SPARE			N/C	N/C				
B-10	SPARE			N/C	N/C				

SWA2 P1

ConnType	MTCP 20S
PartNo	MTC100JH1P22/MTCP-122-20S
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0165
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	CKT 1/2 PWR			SW2 P1	03	CKT 1/2 PWR	22	SC	M22759/34-22-9
A-02	CKT 1/2 PWR			SW2 P1	11	CKT 1/2 PWR	22	SC	M22759/34-22-9
A-03	SPARE			N/C	N/C				
A-04	DAMPER HTR			SW2 P1	06	DAMPER HTR	22	SC	M22759/34-22-9
A-05	DAMPER HTR RTN			SW2 P1	13	DAMPER HTR RTN	22	SC	M22759/34-22-9
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SW2 P1	07	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SW2 P1	15	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SW2 P1	08	SHLD			
A-09	CKT 1/2 PWR RTN			SW2 P1	01	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
A-10	CKT 1/2 PWR RTN			SW2 P1	09	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
B-01	CKT 3/4 PWR			SW2 P2	03	CKT 3/4 PWR	22	SC	M22759/34-22-9
B-02	CKT 3/4 PWR			SW2 P2	11	CKT 3/4 PWR	22	SC	M22759/34-22-9
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SW2 P2	06	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SW2 P2	13	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SW2 P2	05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SW2 P2	07	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SW2 P2	15	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SW2 P2	08	SHLD			
B-09	CKT 3/4 PWR RTN			SW2 P2	01	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
B-10	CKT 3/4 PWR RTN			SW2 P2	09	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9

SWA2 P2

ConnType	MTCP 20P
PartNo	MTC100JH1P22/MTCP-122-20P
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0166
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SWA2 P3	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SWA2 P3	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SWA2 P3	A-08	SHLD			
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	CKT 3/4 PWR			SWA2 P3	B-01	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-02	CKT 3/4 PWR			SWA2 P3	B-02	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SWA2 P3	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SWA2 P3	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SWA2 P3	B-05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SWA2 P3	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SWA2 P3	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SWA2 P3	B-08	SHLD			
B-09	CKT 3/4 PWR RTN			SWA2 P3	B-09	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
B-10	CKT 3/4 PWR RTN			SWA2 P3	B-10	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14

SWA2 P3

ConnType	MTCP 20P
PartNo	MTC100JH1P22/MTCP-122-20P
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0166
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SWA2 P2	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SWA2 P2	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SWA2 P2	A-08	SHLD			
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	CKT 3/4 PWR			SWA2 P2	B-01	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-02	CKT 3/4 PWR			SWA2 P2	B-02	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SWA2 P2	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SWA2 P2	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SWA2 P2	B-05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 18	SWA2 P2	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 18	SWA2 P2	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SWA2 P2	B-08	SHLD			
B-09	CKT 3/4 PWR RTN			SWA2 P2	B-09	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
B-10	CKT 3/4 PWR RTN			SWA2 P2	B-10	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14

SWA2 P4

ConnType	MTCP 20S
PartNo	MTC100JH1P22/MTCP-122-20S
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0165
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A		-	CSS3 SIG	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A		+	CSS3 SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD			N/C	N/C				
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	SPARE			N/C	N/C				
B-02	SPARE			N/C	N/C				
B-03	SPARE			N/C	N/C				
B-04	SPARE			N/C	N/C				
B-05	SPARE			N/C	N/C				
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B		-	CSS4 SIG	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B		+	CSS4 SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD			N/C	N/C				
B-09	SPARE			N/C	N/C				
B-10	SPARE			N/C	N/C				

SWA3 P1

ConnType	MTCP 20S
PartNo	MTC100JH1P22/MTCP-122-20S
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0165
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	CKT 1/2 PWR			SW3 P1	03	CKT 1/2 PWR	22	SC	M22759/34-22-9
A-02	CKT 1/2 PWR			SW3 P1	11	CKT 1/2 PWR	22	SC	M22759/34-22-9
A-03	SPARE			N/C	N/C				
A-04	DAMPER HTR			SW3 P1	06	DAMPER HTR	22	SC	M22759/34-22-9
A-05	DAMPER HTR RTN			SW3 P1	13	DAMPER HTR RTN	22	SC	M22759/34-22-9
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SW3 P1	07	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SW3 P1	15	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SW3 P1	08	SHLD			
A-09	CKT 1/2 PWR RTN			SW3 P1	01	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
A-10	CKT 1/2 PWR RTN			SW3 P1	09	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
B-01	CKT 3/4 PWR			SW3 P2	03	CKT 3/4 PWR	22	SC	M22759/34-22-9
B-02	CKT 3/4 PWR			SW3 P2	11	CKT 3/4 PWR	22	SC	M22759/34-22-9
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SW3 P2	06	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SW3 P2	13	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SW3 P2	05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SW3 P2	07	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SW3 P2	15	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SW3 P2	08	SHLD			
B-09	CKT 3/4 PWR RTN			SW3 P2	01	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
B-10	CKT 3/4 PWR RTN			SW3 P2	09	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9

SWA3 P2

ConnType	MTCP 20P
PartNo	MTC100JH1P22/MTCP-122-20P
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0166
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SWA3 P3	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SWA3 P3	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SWA3 P3	A-08	SHLD			
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	CKT 3/4 PWR			SWA3 P3	B-01	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-02	CKT 3/4 PWR			SWA3 P3	B-02	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SWA3 P3	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SWA3 P3	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SWA3 P3	B-05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SWA3 P3	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SWA3 P3	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SWA3 P3	B-08	SHLD			
B-09	CKT 3/4 PWR RTN			SWA3 P3	B-09	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
B-10	CKT 3/4 PWR RTN			SWA3 P3	B-10	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14

SWA3 P3

ConnType	MTCP 20P
PartNo	MTC100JH1P22/MTCP-122-20P
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0166
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SWA3 P2	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SWA3 P2	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SWA3 P2	A-08	SHLD			
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	CKT 3/4 PWR			SWA3 P2	B-01	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-02	CKT 3/4 PWR			SWA3 P2	B-02	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SWA3 P2	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SWA3 P2	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SWA3 P2	B-05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SWA3 P2	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SWA3 P2	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SWA3 P2	B-08	SHLD			
B-09	CKT 3/4 PWR RTN			SWA3 P2	B-09	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
B-10	CKT 3/4 PWR RTN			SWA3 P2	B-10	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14

SWA3 P4

ConnType	MTCP 20S
PartNo	MTC100JH1P22/MTCP-122-20S
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0165
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A		-	CSS5 SIG	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A		+	CSS5 SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD			N/C	N/C				
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	SPARE			N/C	N/C				
B-02	SPARE			N/C	N/C				
B-03	SPARE			N/C	N/C				
B-04	SPARE			N/C	N/C				
B-05	SPARE			N/C	N/C				
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B		-	CSS6 SIG	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B		+	CSS6 SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD			N/C	N/C				
B-09	SPARE			N/C	N/C				
B-10	SPARE			N/C	N/C				

SWA4 P1

ConnType	MTCP 20S
PartNo	MTC100JH1P22/MTCP-122-20S
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0165
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	CKT 1/2 PWR			SW4 P1	03	CKT 1/2 PWR	22	SC	M22759/34-22-9
A-02	CKT 1/2 PWR			SW4 P1	11	CKT 1/2 PWR	22	SC	M22759/34-22-9
A-03	SPARE			N/C	N/C				
A-04	DAMPER HTR			SW4 P1	06	DAMPER HTR	22	SC	M22759/34-22-9
A-05	DAMPER HTR RTN			SW4 P1	13	DAMPER HTR RTN	22	SC	M22759/34-22-9
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SW4 P1	07	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SW4 P1	15	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SW4 P1	08	SHLD			
A-09	CKT 1/2 PWR RTN			SW4 P1	01	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
A-10	CKT 1/2 PWR RTN			SW4 P1	09	CKT 1/2 PWR RTN	22	SC	M22759/34-22-9
B-01	CKT 3/4 PWR			SW4 P2	03	CKT 3/4 PWR	22	SC	M22759/34-22-9
B-02	CKT 3/4 PWR			SW4 P2	11	CKT 3/4 PWR	22	SC	M22759/34-22-9
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SW4 P2	06	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SW4 P2	13	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SW4 P2	05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SW4 P2	07	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SW4 P2	15	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SW4 P2	08	SHLD			
B-09	CKT 3/4 PWR RTN			SW4 P2	01	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9
B-10	CKT 3/4 PWR RTN			SW4 P2	09	CKT 3/4 PWR RTN	22	SC	M22759/34-22-9

SWA4 P2

ConnType	MTCP 20P
PartNo	MTC100JH1P22/MTCP-122-20P
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0166
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SWA4 P3	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SWA4 P3	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SWA4 P3	A-08	SHLD			
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	CKT 3/4 PWR			SWA4 P3	B-01	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-02	CKT 3/4 PWR			SWA4 P3	B-02	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SWA4 P3	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SWA4 P3	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SWA4 P3	B-05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SWA4 P3	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SWA4 P3	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SWA4 P3	B-08	SHLD			
B-09	CKT 3/4 PWR RTN			SWA4 P3	B-09	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
B-10	CKT 3/4 PWR RTN			SWA4 P3	B-10	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14

SWA4 P3

ConnType	MTCP 20P
PartNo	MTC100JH1P22/MTCP-122-20P
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0166
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A	SWA4 P2	A-06	SUN SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A	SWA4 P2	A-07	SUN SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD	SHLD CARRY THRU		SWA4 P2	A-08	SHLD			
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	CKT 3/4 PWR			SWA4 P2	B-01	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-02	CKT 3/4 PWR			SWA4 P2	B-02	CKT 3/4 PWR	22	SCJ	M27500/-22-SE-1-U-14
B-03	TEMP SENSOR 1	TWISTED W/ PIN 4B	PIN 5B	SWA4 P2	B-03	TEMP SENSOR 1	24	TPSJ	M27500/-24-SE-2-S-14
B-04	TEMP SENSOR 1 RTN	TWISTED W/ PIN 3B	PIN 5B	SWA4 P2	B-04	TEMP SENSOR 1 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-05	SHLD	SHLD CARRY THRU		SWA4 P2	B-05	SHLD			
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B	SWA4 P2	B-06	SUN SENSOR 2	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B	SWA4 P2	B-07	SUN SENSOR 2 RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD	SHLD CARRY THRU		SWA4 P2	B-08	SHLD			
B-09	CKT 3/4 PWR RTN			SWA4 P2	B-09	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
B-10	CKT 3/4 PWR RTN			SWA4 P2	B-10	CKT 3/4 PWR RTN	22	SCJ	M27500/-22-SE-1-U-14

SWA4 P4

ConnType	MTCP 20S
PartNo	MTC100JH1P22/MTCP-122-20S
Connector MIL-C No	NONE
MIL-C Pin No	CTA-0165
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A-01	SPARE			N/C	N/C				
A-02	SPARE			N/C	N/C				
A-03	SPARE			N/C	N/C				
A-04	SPARE			N/C	N/C				
A-05	SPARE			N/C	N/C				
A-06	SUN SENSOR 1	TWISTED W/ PIN 7A	PIN 8A		-	CSS7 SIG	24	TPSJ	M27500/-24-SE-2-S-14
A-07	SUN SENSOR 1 RTN	TWISTED W/ PIN 6A	PIN 8A		+	CSS7 SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
A-08	SHLD			N/C	N/C				
A-09	SPARE			N/C	N/C				
A-10	SPARE			N/C	N/C				
B-01	SPARE			N/C	N/C				
B-02	SPARE			N/C	N/C				
B-03	SPARE			N/C	N/C				
B-04	SPARE			N/C	N/C				
B-05	SPARE			N/C	N/C				
B-06	SUN SENSOR 2	TWISTED W/ PIN 7B	PIN 8B		-	CSS8 SIG	24	TPSJ	M27500/-24-SE-2-S-14
B-07	SUN SENSOR 2 RTN	TWISTED W/ PIN 6B	PIN 8B		+	CSS8 SIG RTN	24	TPSJ	M27500/-24-SE-2-S-14
B-08	SHLD			N/C	N/C				
B-09	SPARE			N/C	N/C				
B-10	SPARE			N/C	N/C				

TAC J1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27474T18F32SA
Connector MIL-C No	MS27474T18F32SA
MIL-C Pin No	M39029/57-357
Backshell Part No	NLS-RCT-18N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
-a	TAC BAT TEMP RTN	TWISTED W/ PIN L	OPEN	BAT P2	30	BAT TEMP4 LO	24	TPSJ	M27500/-24-SE-2-S-14
-b	TAC EXT PWR RTN	TWISTED W/ PIN M		CCB P2	10	+28VDC UMB PWR RTN	20	SCJ	M27500/-20-SE-1-U-14
-c	TAC EXT PWR RTN	TWISTED W/ PIN N		CCB P2	27	+28VDC UMB PWR RTN	20	SCJ	M27500/-20-SE-1-U-14
-d	TAC EXT PWR RTN	TWISTED W/ PIN P		CCB P2	43	+28VDC UMB PWR RTN	20	SCJ	M27500/-20-SE-1-U-14
-e	TAC CPU OFF CMD RTN			N/C	N/C				
-f	TAC CPU ON CMD	TWISTED W/ PIN j	OPEN	PCB P3	56	TAC CPU ON CMD	24	TPSJ	M27500/-24-SE-2-S-14
-g	BUS CURRENT MON	TWISTED W/ PIN h	OPEN	CCB P1	29	BUS CURRENT MON			
-h	BUS CURRENT RTN	TWISTED W/ PIN g	OPEN	CCB P1	30	BUS CURRENT RTN			
-j	TAC CPU ON CMD RTN	TWISTED W/ PIN f	OPEN	PCB P3	57	TAC CPU ON CMD RTN	24	TPSJ	M27500/-24-SE-2-S-14
A	TAC HARD CMD	TWISTED W/ PIN B	OPEN	CIB P2	11	GSE DAT RX HI	24	TPSJ	M27500/-24-SE-2-S-14
B	TAC HARD CMD RTN	TWISTED W/ PIN A	OPEN	CIB P2	12	GSE DAT RX LO	24	TPSJ	M27500/-24-SE-2-S-14
C	TAC HARD CLK	TWISTED W/ PIN D	OPEN	CIB P2	08	GSE CLK RX HI	24	TPSJ	M27500/-24-SE-2-S-14
D	TAC HARD CLK RTN	TWISTED W/ PIN C	OPEN	CIB P2	09	GSE CLK RX LO	24	TPSJ	M27500/-24-SE-2-S-14
E	TAC HARD ENA	TWISTED W/ PIN F	OPEN	CIB P2	15	GSE ENA RX HI	24	TPSJ	M27500/-24-SE-2-S-14
F	TAC HARD ENA RTN	TWISTED W/ PIN E	OPEN	CIB P2	16	GSE ENA RX LO	24	TPSJ	M27500/-24-SE-2-S-14
G	TAC HARD CLK	TWISTED W/ PIN H	OPEN	CIB P2	05	GSE CLK TX HI	24	TPSJ	M27500/-24-SE-2-S-14
H	TAC HARD CLK RTN	TWISTED W/ PIN G	OPEN	CIB P2	06	GSE CLK TX LO	24	TPSJ	M27500/-24-SE-2-S-14
J	SENSITIVITY CNTL	TWISTED W/ PIN K	OPEN	FJC P2	027	SENSITIVITY CNTL	22	TPJ	M27500/-22-SE-2-U-14
K	SENSITIVITY CNTL RTN	TWISTED W/ PIN J	OPEN	FJC P2	028	SENSITIVITY CNTL RTN	22	TPJ	M27500/-22-SE-2-U-14
L	TAC BAT TEMP	TWISTED W/ PIN a	OPEN	BAT P2	29	BAT TEMP4 HI	24	TPSJ	M27500/-24-SE-2-S-14
M	TAC EXT PWR	TWISTED W/ PIN b		EPD	1	DIODE 1 ANODE	20	SCJ	M27500/-20-SE-1-U-14
N	TAC EXT PWR	TWISTED W/ PIN c		EPD	1	DIODE 1 ANODE	20	SCJ	M27500/-20-SE-1-U-14
P	TAC EXT PWR	TWISTED W/ PIN d		EPD	1	DIODE 1 ANODE	20	SCJ	M27500/-20-SE-1-U-14
R	TAC CPU OFF CMD			N/C	N/C				
S	TAC CPU RLY STAT	TWISTED W/ PIN T	OPEN	PCB P3	58	TAC CPU RLY STAT	24	TPSJ	M27500/-24-SE-2-S-14
T	TAC CPU RLY STAT RTN	TWISTED W/ PIN S	OPEN	PCB P3	72	TAC CPU RLY STAT RTN	24	TPSJ	M27500/-24-SE-2-S-14
U	BUS VOLTAGE MON	TWISTED W/ PIN Z	OPEN	CCB P1	31	BUS VOLTAGE MON	24	TPSJ	M27500/-24-SE-2-S-14
V	CIB GSE ENA	TWISTED W/ PIN W	OPEN	CIB P2	21	GSE SEL	24	TPSJ	M27500/-24-SE-2-S-14
W	CIB GSE ENA RTN	TWISTED W/ PIN V	OPEN	CIB P2	20	DGND	24	TPSJ	M27500/-24-SE-2-S-14
X	TAC HARD TLM	TWISTED W/ PIN Y	OPEN	CIB P2	02	GSE DAT TX HI	24	TPSJ	M27500/-24-SE-2-S-14
Y	TAC HARD TLM RTN	TWISTED W/ PIN X	OPEN	CIB P2	03	GSE DAT TX LO	24	TPSJ	M27500/-24-SE-2-S-14
Z	BUS VOLTAGE RTN	TWISTED W/ PIN U	OPEN	CCB P1	32	BUS VOLTAGE RTN	24	TPSJ	M27500/-24-SE-2-S-14

TQRX ICP1

ConnType	JF S Winchester 2 Contact
PartNo	JF1S1PA
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	TQ X HTR PWR	TWISTED W/ PIN B	OPEN	PCB P3	19	TQRD HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
B	TQ X HTR PWR RTN	TWISTED W/ PIN A	OPEN	PCB P3	39	TQRD HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14

TQRX ICP2

ConnType	JF S Winchester 2 Contact
PartNo	JF1S1PA
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	TQRX AD590 +	TWISTED W/ PIN B	OPEN	PACI P2	010	AD590 IN8	24	TPSJ	M27500/-24-SE-2-S-14
B	TQRX AD590 -	TWISTED W/ PIN A	OPEN	PACI P2	036	AD590 EXC8	24	TPSJ	M27500/-24-SE-2-S-14

TQRX P1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27473E10F35S
Connector MIL-C No	MS27473E10F35S
MIL-C Pin No	M39029/57-354
Backshell Part No	NLS-RCT-10N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	WINDING1 START	TWISTED W/ PIN 8	OPEN	ADB P2	01	TQRX	22	TPSJ	M27500/-22-SE-2-S-14
02	WINDING1 START			N/C	N/C				
03	WINDING2 START	TWISTED W/ PIN 6	OPEN	ADB P2	20	TQRX	22	TPSJ	M27500/-22-SE-2-S-14
04	WINDING2 START			N/C	N/C				
05	SPARE			N/C	N/C				
06	WINDING2 FINISH	TWISTED W/ PIN 3	OPEN	ADB P2	21	TQRX RTN	22	TPSJ	M27500/-22-SE-2-S-14
07	WINDING2 FINISH			N/C	N/C				
08	WINDING1 FINISH	TWISTED W/ PIN 1	OPEN	ADB P2	02	TQRX RTN	22	TPSJ	M27500/-22-SE-2-S-14
09	WINDING1 FINISH			N/C	N/C				
10	SPARE			N/C	N/C				
11	SPARE			N/C	N/C				
12	SPARE			N/C	N/C				
13	SPARE			N/C	N/C				

TQRY ICP1

ConnType	JF S Winchester 2 Contact
PartNo	JF1S1PA
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	TQ Y HTR PWR	TWISTED W/ PIN B	OPEN	PCB P3	20	TQRD HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
B	TQ Y HTR PWR RTN	TWISTED W/ PIN A	OPEN	PCB P3	59	TQRD HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14

TQRY ICP2

ConnType	JF S Winchester 2 Contact
PartNo	JF1S1PA
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	TQRY AD590 +	TWISTED W/ PIN B	OPEN	PACI P2	011	AD590 IN9	24	TPSJ	M27500/-24-SE-2-S-14
B	TQRY AD590 -	TWISTED W/ PIN A	OPEN	PACI P2	037	AD590 EXC9	24	TPSJ	M27500/-24-SE-2-S-14

TQRY P1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27473E10F35S
Connector MIL-C No	MS27473E10F35S
MIL-C Pin No	M39029/57-354
Backshell Part No	NLS-RCT-10N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	WINDING1 START	TWISTED W/ PIN 8	OPEN	ADB P2	03	TQRY	22	TPSJ	M27500/-22-SE-2-S-14
02	WINDING1 START			N/C	N/C				
03	WINDING2 START	TWISTED W/ PIN 6	OPEN	ADB P2	22	TQRY	22	TPSJ	M27500/-22-SE-2-S-14
04	WINDING2 START			N/C	N/C				
05	SPARE			N/C	N/C				
06	WINDING2 FINISH	TWISTED W/ PIN 3	OPEN	ADB P2	23	TQRY RTN	22	TPSJ	M27500/-22-SE-2-S-14
07	WINDING2 FINISH			N/C	N/C				
08	WINDING1 FINISH	TWISTED W/ PIN 1	OPEN	ADB P2	04	TQRY RTN	22	TPSJ	M27500/-22-SE-2-S-14
09	WINDING1 FINISH			N/C	N/C				
10	SPARE			N/C	N/C				
11	SPARE			N/C	N/C				
12	SPARE			N/C	N/C				
13	SPARE			N/C	N/C				

TQRZ ICP1

ConnType	JF S Winchester 2 Contact
PartNo	JF1S1PA
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	TQ Z HTR PWR	TWISTED W/ PIN B	OPEN	PCB P3	73	TQRD HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
B	TQ Z HTR PWR RTN	TWISTED W/ PIN A	OPEN	PCB P3	74	TQRD HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14

TQRZ ICP2

ConnType	JF S Winchester 2 Contact
PartNo	JF1S1PA
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	TQRZ AD590 +	TWISTED W/ PIN B	OPEN	PACI P2	012	AD590 IN10	24	TPSJ	M27500/-24-SE-2-S-14
B	TQRZ AD590 -	TWISTED W/ PIN A	OPEN	PACI P2	038	AD590 EXC10	24	TPSJ	M27500/-24-SE-2-S-14

TQRZ P1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27473E10F35S
Connector MIL-C No	MS27473E10F35S
MIL-C Pin No	M39029/57-354
Backshell Part No	NLS-RCT-10N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	WINDING1 START	TWISTED W/ PIN 8	OPEN	ADB P2	05	TQRZ PRI	22	TPSJ	M27500/-22-SE-2-S-14
02	WINDING1 START			N/C	N/C				
03	WINDING2 START	TWISTED W/ PIN 6	OPEN	ADB P2	07	TQRZ SEC	22	TPSJ	M27500/-22-SE-2-S-14
04	WINDING2 START			N/C	N/C				
05	SPARE			N/C	N/C				
06	WINDING2 FINISH	TWISTED W/ PIN 3	OPEN	ADB P2	08	TQRZ SEC RTN	22	TPSJ	M27500/-22-SE-2-S-14
07	WINDING2 FINISH			N/C	N/C				
08	WINDING1 FINISH	TWISTED W/ PIN 1	OPEN	ADB P2	06	TQRZ PRI RTN	22	TPSJ	M27500/-22-SE-2-S-14
09	WINDING1 FINISH			N/C	N/C				
10	SPARE			N/C	N/C				
11	SPARE			N/C	N/C				
12	SPARE			N/C	N/C				
13	SPARE			N/C	N/C				

UMB J1

ConnType	CIR MIL-C-38999 SERIES II
PartNo	MS27474T16F42S
Connector MIL-C No	MS27474T16F42S
MIL-C Pin No	M39029/57-354
Backshell Part No	NLS-RCT-16N

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	UMB +28V EXT PWR	TWISTED W/ PIN 2		EPD	3	DIODE 2 ANODE	22	SCJ	M27500/-22-SE-1-U-14
02	UMB +28V EXT PWR RTN	TWISTED W/ PIN 1		CCB P2	10-spl1	+28VDC UMB PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
03	UMB +28V EXT PWR	TWISTED W/ PIN 4		EPD	3	DIODE 2 ANODE	22	SCJ	M27500/-22-SE-1-U-14
04	UMB +28V EXT PWR RTN	TWISTED W/ PIN 3		CCB P2	27-spl1	+28VDC UMB PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
05	SEP LPBK1	TWISTED W/ PIN 6		PCB P3	51	SEP1 SENSE PWR	22	TPJ	M27500/-22-SE-2-U-14
05-spl1	SEP LPBK1	TWISTED W/ PIN 6		ADB P1	09	SEP SENSE1	22	TPJ	M27500/-22-SE-2-U-14
06	SEP LPBK1 RTN	TWISTED W/ PIN 5		PCB P3	76	SEP1 SENSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
06-spl1	SEP LPBK1 RTN	TWISTED W/ PIN 5		ADB P1	08	SEP SENSE1 RTN	22	TPJ	M27500/-22-SE-2-U-14
07	SEP LPBK2	TWISTED W/ PIN 8		PCB P3	70	SEP2 SENSE PWR	22	TPJ	M27500/-22-SE-2-U-14
07-spl1	SEP LPBK2	TWISTED W/ PIN 8		ADB P1	26	SEP SENSE2	22	TPJ	M27500/-22-SE-2-U-14
08	SEP LPBK2 RTN	TWISTED W/ PIN 7		PCB P3	77	SEP2 SENSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
08-spl1	SEP LPBK2 RTN	TWISTED W/ PIN 7		ADB P1	25	SEP SENSE2 RTN	22	TPJ	M27500/-22-SE-2-U-14
09	SEP LPBK3	TWISTED W/ PIN 10		PCB P3	71	SEP3 SENSE PWR	22	TPJ	M27500/-22-SE-2-U-14
09-spl1	SEP LPBK3	TWISTED W/ PIN 10		ADB P1	42	SEP SENSE3	22	TPJ	M27500/-22-SE-2-U-14
10	SEP LPBK3 RTN	TWISTED W/ PIN 9		PCB P3	78	SEP3 SENSE PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
10-spl1	SEP LPBK3 RTN	TWISTED W/ PIN 9		ADB P1	41	SEP SENSE3 RTN	22	TPJ	M27500/-22-SE-2-U-14
11	N/C			N/C	N/C				
12	N/C			N/C	N/C				
13	N/C			N/C	N/C				
14	N/C			N/C	N/C				
15	N/C			N/C	N/C				
16	N/C			N/C	N/C				
17	N/C			N/C	N/C				
18	N/C			N/C	N/C				
19	N/C			N/C	N/C				
20	N/C			N/C	N/C				
21	N/C			N/C	N/C				
22	N/C			N/C	N/C				
23	N/C			N/C	N/C				
24	N/C			N/C	N/C				
25	N/C			N/C	N/C				
26	N/C			N/C	N/C				
27	PYLD SEP SENSE	JUMPER TO PIN 28		UMB J1	28	PYLD SEP SENSE RTN	22	SCJ	M27500/-22-SE-1-U-14
28	PYLD SEP SENSE RTN	JUMPER TO PIN 27		UMB J1	27	PYLD SEP SENSE	22	SCJ	M27500/-22-SE-1-U-14
29	N/C			N/C	N/C				
30	N/C			N/C	N/C				
31	N/C			N/C	N/C				
32	N/C			N/C	N/C				
33	N/C			N/C	N/C				
34	N/C			N/C	N/C				
35	N/C			N/C	N/C				
36	SHLD	SHLD RTN		N/C	N/C				
37	SERIAL TLM POLL	TWISTED W/ PIN 38	PIN 36	PACI P1	071	ACH4 RX422 HI	24	TPSJ	M27500/-24-SE-2-S-14
38	SERIAL TLM POLL RTN	TWISTED W/ PIN 37	PIN 36	PACI P1	072	ACH4 RX422 LO	24	TPSJ	M27500/-24-SE-2-S-14
39	SERIAL TLM DATA	TWISTED W/ PIN 40	PIN 41	PACI P1	061	ACH4 TX422 HI	24	TPSJ	M27500/-24-SE-2-S-14
40	SERIAL TLM DATA RTN	TWISTED W/ PIN 39	PIN 41	PACI P1	062	ACH4 TX422 LO	24	TPSJ	M27500/-24-SE-2-S-14
41	SHLD	SHLD CARRY THRU		N/C	N/C				
42	SPARE			N/C	N/C				

XPD ICP1

ConnType	JF P Winchester 4 Contact
PartNo	JF1P3SB
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	XPD HTR PWR	TWISTED W/ PIN C	OPEN	PCB P3	07	XPD HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14
B	XPD HTR PWR RTN	TWISTED W/ PIN D	OPEN	PCB P3	28	XPD HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
C	XPD HTR PWR RTN	TWISTED W/ PIN A	OPEN	PCB P3	27	XPD HTR PWR RTN	24	TPSJ	M27500/-24-SE-2-S-14
D	XPD HTR PWR	TWISTED W/ PIN B	OPEN	PCB P3	08	XPD HTR PWR	24	TPSJ	M27500/-24-SE-2-S-14

XPD ICP2

ConnType	JF S Winchester 2 Contact
PartNo	JF1S1PA
Connector MIL-C No	
MIL-C Pin No	
Backshell Part No	NONE

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
A	XPD EXT AD590 +	TWISTED W/ PIN B	OPEN	PACI P2	013	AD590 IN11	24	TPSJ	M27500/-24-SE-2-S-14
B	XPD EXT AD590 -	TWISTED W/ PIN A	OPEN	PACI P2	039	AD590 EXC11	24	TPSJ	M27500/-24-SE-2-S-14

XPD P10

ConnType	HDD 44P
PartNo	311P407-3P-B-12
Connector MIL-C No	311P407-3P-B-12
MIL-C Pin No	G-08-P1
Backshell Part No	DB50906-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	RCVR CARRIER SIG LVL		PIN 16	PACI P2	062	GP ANALOG CH9	24	SCSJ	M27500/-24-SE-1-S-14
02	CVR CARRIER SIG LVL RTN			N/C	N/C				
03	SPARE			N/C	N/C				
04	RCVR LOOP STRESS	TWISTED W/ PIN 5	PIN 16	PACI P2	061	GP ANALOG CH8	24	TPSJ	M27500/-24-SE-2-S-14
05	RCVR LOOP STRESS RTN	TWISTED W/ PIN 4	PIN 16	N/C	N/C		24	TPSJ	M27500/-24-SE-2-S-14
06	SPARE			N/C	N/C				
07	CONV VOLTAGE		PIN 16	PACI P2	063	GP ANALOG CH10	24	SCSJ	M27500/-24-SE-1-S-14
08	CONV VOLTAGE RTN			N/C	N/C				
09	SPARE			N/C	N/C				
10	XMT PWR OUT		PIN 16	PACI P2	067	GP ANALOG CH13	24	SCSJ	M27500/-24-SE-1-S-14
11	XMT PWR OUT RTN			N/C	N/C				
12	XMT PWR SPLY TEMP		PIN 16	PACI P2	066	GP ANALOG CH12	24	SCSJ	M27500/-24-SE-1-S-14
13	XMT PWR SPLY TEMP RTN			N/C	N/C				
14	XMT PWR AMP TEMP		PIN 16	PACI P2	065	GP ANALOG CH11	24	SCSJ	M27500/-24-SE-1-S-14
15	XMT PWR AMP TEMP RTN			N/C	N/C				
16	CHASSIS GND	SHLD RTN		N/C	N/C				
17	SPARE			N/C	N/C				
18	SPARE			N/C	N/C				
19	SPARE			N/C	N/C				
20	XMT ON/OFF STAT		PIN 16	PACI P1	007	DIG DIN4	24	SCSJ	M27500/-24-SE-1-S-14
21	XMT ON/OFF STAT RTN			N/C	N/C				
22	SPARE			N/C	N/C				
23	SPARE			N/C	N/C				
24	SPARE			N/C	N/C				
25	SPARE			N/C	N/C				
26	SPARE			N/C	N/C				
27	SPARE			N/C	N/C				
28	SPARE			N/C	N/C				
29	SPARE			N/C	N/C				
30	SPARE			N/C	N/C				
31	SPARE			N/C	N/C				
31	SPARE			N/C	N/C				
32	SPARE			N/C	N/C				
33	SPARE			N/C	N/C				
34	SPARE			N/C	N/C				
35	SPARE			N/C	N/C				
36	SPARE			N/C	N/C				
37	RCVR LOCK STAT	TWISTED W/ PIN 38	PIN 16	PACI P1	005	DIG DIN2	24	TPSJ	M27500/-24-SE-2-S-14
38	RCVR LOCK STAT RTN	TWISTED W/ PIN 37	PIN 16	PACI P1	004	DGND	24	TPSJ	M27500/-24-SE-2-S-14
39	SPARE			N/C	N/C				
40	CDU LOCK STAT		PIN 16	PACI P1	006	DIG DIN3	24	SCSJ	M27500/-24-SE-1-S-14
41	CDU LOCK STAT RTN			N/C	N/C				
42	SPARE			N/C	N/C				
43	SPARE			N/C	N/C				
44	SPARE			N/C	N/C				

XPD P11

ConnType	HDD 26S
PartNo	311P407-2S-B-12
Connector MIL-C No	311P407-2S-B-12
MIL-C Pin No	G-08-S1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	SPARE			N/C	N/C				
02	SPARE			N/C	N/C				
03	SPARE			N/C	N/C				
04	SPARE			N/C	N/C				
05	XMT ON/OFF			FEP J1	36	XMT ON/OFF OUT	22	SCJ	M27500/-22-SE-1-U-14
05-spl1	XMT ON/OFF			FEP J1	38	XMT ON/OFF OUT	22	SCJ	M27500/-22-SE-1-U-14
06	XMT ON/OFF RTN			PCB P3	54	XPD ON/OFF RTN	22	SCJ	M27500/-22-SE-1-U-14
07	SPARE			N/C	N/C				
08	SPARE			N/C	N/C				
09	SPARE			N/C	N/C				
10	CHASSIS GND			N/C	N/C				
11	SPARE			N/C	N/C				
12	SPARE			N/C	N/C				
13	SPARE			N/C	N/C				
14	SPARE			N/C	N/C				
15	SPARE			N/C	N/C				
16	SPARE			N/C	N/C				
17	SPARE			N/C	N/C				
18	SPARE			N/C	N/C				
19	TLM DAT IN HI	TWISTED W/ PIN 20	OPEN	CIB P1	001	TLM DAT TX HI	24	TPSJ	M27500/-24-SE-2-S-14
20	TLM DAT IN LO	TWISTED W/ PIN 19	OPEN	CIB P1	002	TLM DAT TX LO	24	TPSJ	M27500/-24-SE-2-S-14
21	SHLD			N/C	N/C				
22	TLM CLK IN HI	TWISTED W/ PIN 23	OPEN	CIB P1	004	TLM CLK TX HI	24	TPSJ	M27500/-24-SE-2-S-14
23	TLM CLK IN LO	TWISTED W/ PIN 22	OPEN	CIB P1	005	TLM CLK TX LO	24	TPSJ	M27500/-24-SE-2-S-14
24	SHLD			N/C	N/C				
25	SPARE			N/C	N/C				
26	SPARE			N/C	N/C				

XPD P7

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	XPD +28VDC PWR	TWISTED W/ PIN 5		PCB P3	15	XPD PWR	22	TPJ	M27500/-22-SE-2-U-14
02	SPARE			N/C	N/C				
03	CHASSIS GND			N/C	N/C				
04	CHASSIS GND			N/C	N/C				
05	XPD +28VDC PWR RTN	TWISTED W/ PIN 1		PCB P3	35	XPD PWR RTN	22	TPJ	M27500/-22-SE-2-U-14
06	XPD +28VDC PWR	TWISTED W/ PIN 9		PCB P3	16	XPD PWR	22	TPJ	M27500/-22-SE-2-U-14
07	SPARE			N/C	N/C				
08	CHASSIS GND			N/C	N/C				
09	XPD +28VDC PWR RTN	TWISTED W/ PIN 6		PCB P3	36	XPD PWR RTN	22	TPJ	M27500/-22-SE-2-U-14

XPD P9

ConnType	HDD 26P
PartNo	311P407-2P-B-12
Connector MIL-C No	311P407-2P-B-12
MIL-C Pin No	G-08-P1
Backshell Part No	DA50905-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
01	DAT A	TWISTED W/ PIN 2	PIN 11	CIB P1	013	UPLK DAT RX A HI	24	TPSJ	M27500/-24-SE-2-S-14
02	DAT A RTN	TWISTED W/ PIN 1	PIN 11	CIB P1	012	DGND	24	TPSJ	M27500/-24-SE-2-S-14
03	CLK A	TWISTED W/ PIN 4	PIN 13	CIB P1	016	UPLK CLK RX A HI	24	TPSJ	M27500/-24-SE-2-S-14
04	CLK A RTN	TWISTED W/ PIN 3	PIN 13	CIB P1	015	DGND	24	TPSJ	M27500/-24-SE-2-S-14
05	DAT B	TWISTED W/ PIN 6	PIN 15	CIB P1	022	UPLK DAT RX B HI	24	TPSJ	M27500/-24-SE-2-S-14
06	DAT B RTN	TWISTED W/ PIN 5	PIN 15	CIB P1	021	DGND	24	TPSJ	M27500/-24-SE-2-S-14
07	CLK B	TWISTED W/ PIN 8	PIN 17	CIB P1	025	UPLK CLK RX B HI	24	TPSJ	M27500/-24-SE-2-S-14
08	CLK B RTN	TWISTED W/ PIN 7	PIN 17	CIB P1	024	DGND	24	TPSJ	M27500/-24-SE-2-S-14
09	SPARE			N/C	N/C				
10	CHASSIS GND	SHLD RTN		N/C	N/C				
11	SHLD	SHLD RTN		N/C	N/C				
12	SPARE			N/C	N/C				
13	SHLD	SHLD RTN		N/C	N/C				
14	SPARE			N/C	N/C				
15	SHLD	SHLD RTN		N/C	N/C				
16	SPARE			N/C	N/C				
17	SHLD	SHLD RTN		N/C	N/C				
18	SPARE			N/C	N/C				
19	CDU LOCK A	TWISTED W/ PIN 20	PIN 10	CIB P1	019	UPLK ENA RX A HI	24	TPSJ	M27500/-24-SE-2-S-14
20	CDU LOCK A RTN	TWISTED W/ PIN 19	PIN 10	CIB P1	018	DGND	24	TPSJ	M27500/-24-SE-2-S-14
21	RCVR LOCK A			N/C	N/C				
22	RCVR LOCK A RTN			N/C	N/C				
23	CDU LOCK B	TWISTED W/ PIN 24	PIN 10	CIB P1	028	UPLK ENA RX B HI	24	TPSJ	M27500/-24-SE-2-S-14
24	CDU LOCK B RTN	TWISTED W/ PIN 23	PIN 10	CIB P1	027	DGND	24	TPSJ	M27500/-24-SE-2-S-14
25	RCV LOCK B			N/C	N/C				
26	RCV LOCK B RTN			N/C	N/C				

XSW P4

ConnType	D 9S
PartNo	311P409-1S-B-12
Connector MIL-C No	311P409-1S-B-12
MIL-C Pin No	G-10-S1
Backshell Part No	DE50904-1

Source				Destination			Wire		
Pin	SignalName	Special Instructions	ShldRtn	Conn	Pin	SignalName	AWG	Type	Wire_Part_No
1	POS1 28V PWR	TWISTED W/ PIN 3		FJC J2	042	POS1 +28V PWR	22	SCJ	M27500/-22-SE-1-U-14
2	POS2 28V PWR	TWISTED W/ PIN 3		FJC J2	043	POS2 +28V PWR	22	SCJ	M27500/-22-SE-1-U-14
3	28V PWR RTN	TWISTED W/ PINS 1		FJC J2	044	28V PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
3-spl1	28V PWR RTN	TWISTED W/ PIN 2		FJC J2	045	28V PWR RTN	22	SCJ	M27500/-22-SE-1-U-14
4	POS1 IND	TWISTED W/ PIN 6	OPEN	FJC J2	046	POS1 IND	24	TPSJ	M27500/-24-SE-2-S-14
5	POS2 IND			N/C	N/C				
6	POS IND RTN	TWISTED W/ PIN 4	OPEN	FJC J2	047	POS1 IND RTN	24	TPSJ	M27500/-24-SE-2-S-14
7	CHASSIS GND	SHLD RTN		N/C	N/C				
8	SPARE			N/C	N/C				
9	SPARE			N/C	N/C				