

Front-end wire schedule							
Reference ELMCOOverview.vsd							
Reference datasheet-PAX.doc							
Reference: PAXschematic.sch							
29-Jun-06							
FWC1 Inside PAX-box case to PAX box and TEC							
A	Description	B, C	Comment	Color	Size	Twist	Length
d	GND	B1		black		Z	14
e	+5 (OTXTEC)	B2		red		Z	14
b	GND	B3		black		Y	14
c	+6 (OTXlaser/PAM)	B4		gray		Y	14
V	GNDsense	B5		black			14
W	+6sense	B6		gray			14
X	+5sense	B7		red			14
Y	-6sense	B8		blue			14
Z	+5 (OTXTEC)	B9		red		X	14
a	GND	B10		black		X	14
R	-6 (OTX/PAM)	B11		blue		W	14
S	GND	B12		black		W	14
LM35	GND	B13		black			12
LM35	T	B14		white			12
LM35	+5 V out to T	B15		red			12
A	TEC power	C2		black	20		12
H	PAX thermistor	C3		blue	24	U	12
C	Heat sink thermistor	C4		white	24	T	12
T	Airstream thermistor	C5		green	24	S	12
B	TEC power	C6		red	20		12
J	PAX thermistor	C7		blue	24	U	12
G	Heat sink thermistor	C8		white	24	T	12
U	Airstream thermistor	C9		green	24	S	12
A	Trim trio			sockets SC24ML - 1D70			
B	D15S						
C	D9S						
FWC2 Inside PAX-case from bracket to TEC/thermistors							
A	Description	B	Comment	Color	Size	Twist	Length
1	N/C						
2	TEC power			black	20		
3	PAX thermistor			blue	24	Z	
4	Heat sink thermistor			white	24	Y	
5	Airstream thermistor			green	24	X	
6	TEC power			red	20		
7	PAX thermistor			blue	24	Z	
8	Heat sink thermistor			white	24	Y	
9	Airstream thermistor			green	24	X	
A	D9P						
B	hardware						

FWP1 Inside PAX-box from D15 input power							
A	Description	B	Comment	Color	Size	Twist	Length
1	GND	15		black		Z	
2	+5 (OTXTEC)	13		red		Z	
3	GND	11		black		Y	
4	+6 (OTXlaser/PAM)	9		gray		Y	
5	GNDsense	7		black			
6	+6sense	5		gray			
7	+5sense	3		red			6 5/8
8	-6sense	1		blue			(wire length)
9	+5 (OTXTEC)	16		red		X	
10	GND	14		black		X	
11	-6 (OTX/PAM)	12		blue		W	
12	GND	10		black		W	
13	GND	8		black		V	
14	T	6		white		V	
15	+5 V out to T	4		red			
A	D15P		56-711-015	Spectrum Control			
B	16pin 0.100 keyed		102387-3	AMP			
NOTE: JAMECO NUMBERS CONNECTOR DIFFERENTLY THAN ABOVE							
FWP2 Inside PAX-box to D25 output LNA power							
A	Description	B	Comment	Color	Size	Twist	Length (")
1	GND	1		black		Z	
2	Vdrain Y	3		brown		Z	
3	GND	5		black		Z	
4	NC	7					
5	NC	9					
6	Vgate X	11	ferrite bead	yellow		Y	
7	GND	13		black		Y	
8	GND	15		black		X	2 5/8
9	Vdrain X	17		brown		X	(wire length)
10	NC	19					
11	NC						
12	NC						
13	NC						
14	Vminus Y	2		blue		W	
15	GND	4		black		W	
16	GND	6		black		U	
17	Vgate Y	8	ferrite bead	yellow		U	
18	NC	10					
19	NC	12					
20	GND	14		black		T	
21	Vminus X	16		blue		T	
22	NC	18					
23	NC	20					
24	NC						
25	NC						
A	D25S		56-726-005	Spectrum Control			
B	20pin 0.100 keyed		102387-4	AMP			
NOTE: JAMECO NUMBERS CONNECTOR DIFFERENTLY THAN ABOVE							

FWP3 Inside PAX-box from control board to channel X							
A	Description	B	Comment	Color	Size	Twist	Length
1	+5VDC PAM	1		red			
2	GND PAM	3		black			
3	+5VDC TEC	5		yellow			
4	GND TEC	7		black			
5	DET PAM	9		white			
6	CLOCK PAM	11		yellow			
7	LOAD PAM	13		green			4 3/8
8	NC						(wire length)
9	GND PAM	2		black			
10	+5VDC OTX	4		red			
11	GND OTX	6		black			
12	-5VDC PAM/OTX	8		blue			
13	GND PAM	10		black			
14	DATA PAM	12		white			
15	NC						
A	D15S		56-716-003	Spectrum Control			
B	16pin 0.100 keyed		102387-3	AMP			
NOTE: JAMECO NUMBERS CONNECTOR DIFFERENTLY THAN ABOVE							
FWP4 Inside PAX-box from control board to channel Y							
A	Description	B	Comment	Color	Size	Twist	Length
1	+5VDC PAM	1		red			
2	GND PAM	3		black			
3	+5VDC TEC	5		yellow			
4	GND TEC	7		black			
5	DET PAM	9		white			
6	CLOCK PAM	11		yellow			
7	LOAD PAM	13		green			4 3/8
8	NC						(wire length)
9	GND PAM	2		black			
10	+5VDC OTX	4		red			
11	GND OTX	6		black			
12	-5VDC PAM/OTX	8		blue			
13	GND PAM	10		black			
14	DATA PAM	12		white			
15	NC						
A	D15S		56-716-003	Spectrum Control			
B	16pin 0.100 keyed		102387-3	AMP			