

PAT EI-65 Error Code List

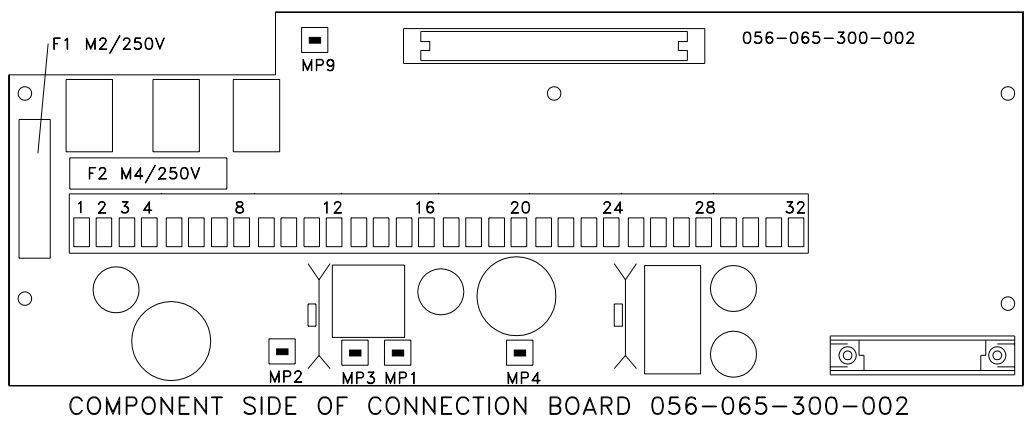
Error code	Reason	Action
11	Operating data in the buffered RAM	Turn on the system again and adjust operating data
21	Crane parameters in the serial EPROM incorrect	Re-calibrate the system
31	Wrong EPROM programming or EPROM defective	Exchange EPROM
51	Short circuit min layer device term 11&12	Check minimum layer device
52	Cable break min layer device term 11&12	Check minimum layer device
53	Short circuit A2B -switch - 2 term 13&14	Check anti-two block system
54	Cable break A2B -switch - 2 term 13&14	Check anti-two block system
55	Short circuit A2B -switch - 1 term 9&10	Check anti-two block system
56	Cable break A2B -switch - 1 term 9&10	Check anti-two block system
•61	Load on the main hoist hook too big	Reduce load on main hoist
•63	Load on the auxiliary hoist hook too big	Reduce load on aux. Hoist
•71	Limit Length - Main - Boom - Max.	Decrease length limit
•72	Limit Length - Main - Boom - Min.	Increase length limit
•73	Limit WG - Main - Boom - Max.	Decrease main boom angle
•74	Limit WG - Main - Boom - Min.	Increase main boom angle
•75	Limit Boom height - Max.	Decrease main boom angle
•76	Limit Boom height - Min.	Increase main boom angle
•77	Limit Working radius - Max.	Increase main boom angle
•78	Limit Working radius - Min.	Decrease main boom angle
81	ADC-Measuring value KMD1 too big	Check zero point in linerider
82	ADC-Measuring value KMD1 too low	Check zero point in linerider
83	ADC-Measuring value KMD2 too big	Check zero point in linerider
84	ADC-Measuring value KMD2 too low	Check zero point in linerider
93	ADC-Measuring value WG1 too big	Check main angle sensor circuit
94	ADC-Measuring value WG1 too low	Check main angle sensor circuit
95	ADC-Measuring value WG2 too big	Check luffing angle sensor circuit
96	ADC-Measuring value WG2 too low	Check luffing angle sensor circuit

Connection Board 056-065-300-002 Designations:

1	+ Battery
2	+ Battery
3	- Battery
4	- Battery
5	Load Limit output
6	A2B Relay output 2
7	A2B Relay output 1
8	Peripheral ground
9	A2B 1 input
10	A2B Ground
11	A2B 2 input
12	A2B Ground
13	3rd Wrap Switch input
14	3rd Wrap Switch ground
15	Digital input 1
16	Digital input 2

17	+5VDC
18	Main Boom angle input
19	Main Boom Length input
20	Analog Ground
21	+5VDC
22	Jib Angle input
23	Analog Ground
24	Analog Ground
25	+9VDC
26	KMD1 +Signal input
27	KMD1 -Signal input
28	-9VDC
29	+9VDC
30	KMD2 +Signal input
31	KMD2 -Signal input
32	-9VDC

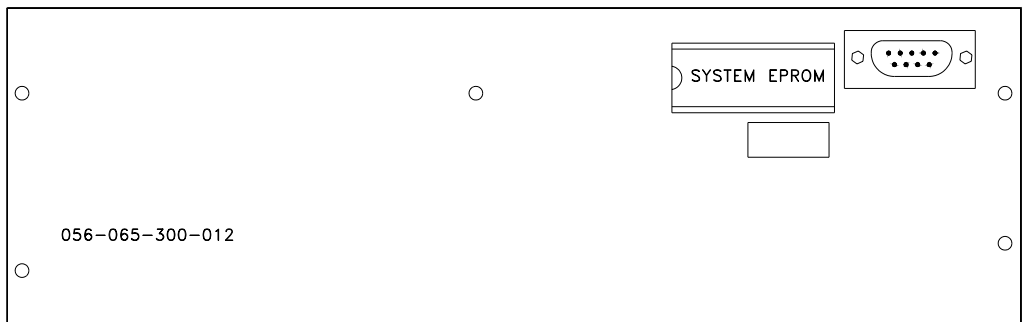
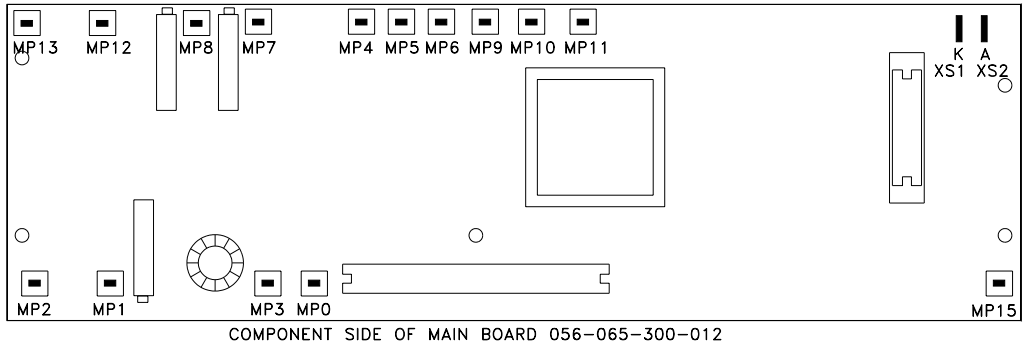
• **DRAWING 2. CONNECTION BOARD LAYOUT**



MP1 = GND
 MP2 = 5.6V
 MP3 = 5.6V
 MP4 = .5V min sig.
 To 4.5V max sig.

COMPONENT SIDE OF CONNECTION BOARD 056-065-300-002

DRAWING 3. MAIN BOARD LAYOUT



- MP0 = GND
- MP1 = AGND
- MP2 = +5.0V
- MP3 = +5.0V
- MP4 = SIGNAL, LENGTH CHANNEL
- MP5 = SIGNAL, ANGLE 2
- MP6 = SIGNAL, ANGLE 1
- MP7 = SIGNAL, KMD1
- MP8 = SIGNAL, KMD2
- MP9 = AN5 REFERENCE VOLATGE
- MP10 = AN6 REFERENCE VOLTAGE
- MP11 = AN7 REFERENCE VOLTAGE
- MP12 = -0.5V
- MP13 = +5.0V
- MP15 = 5.2