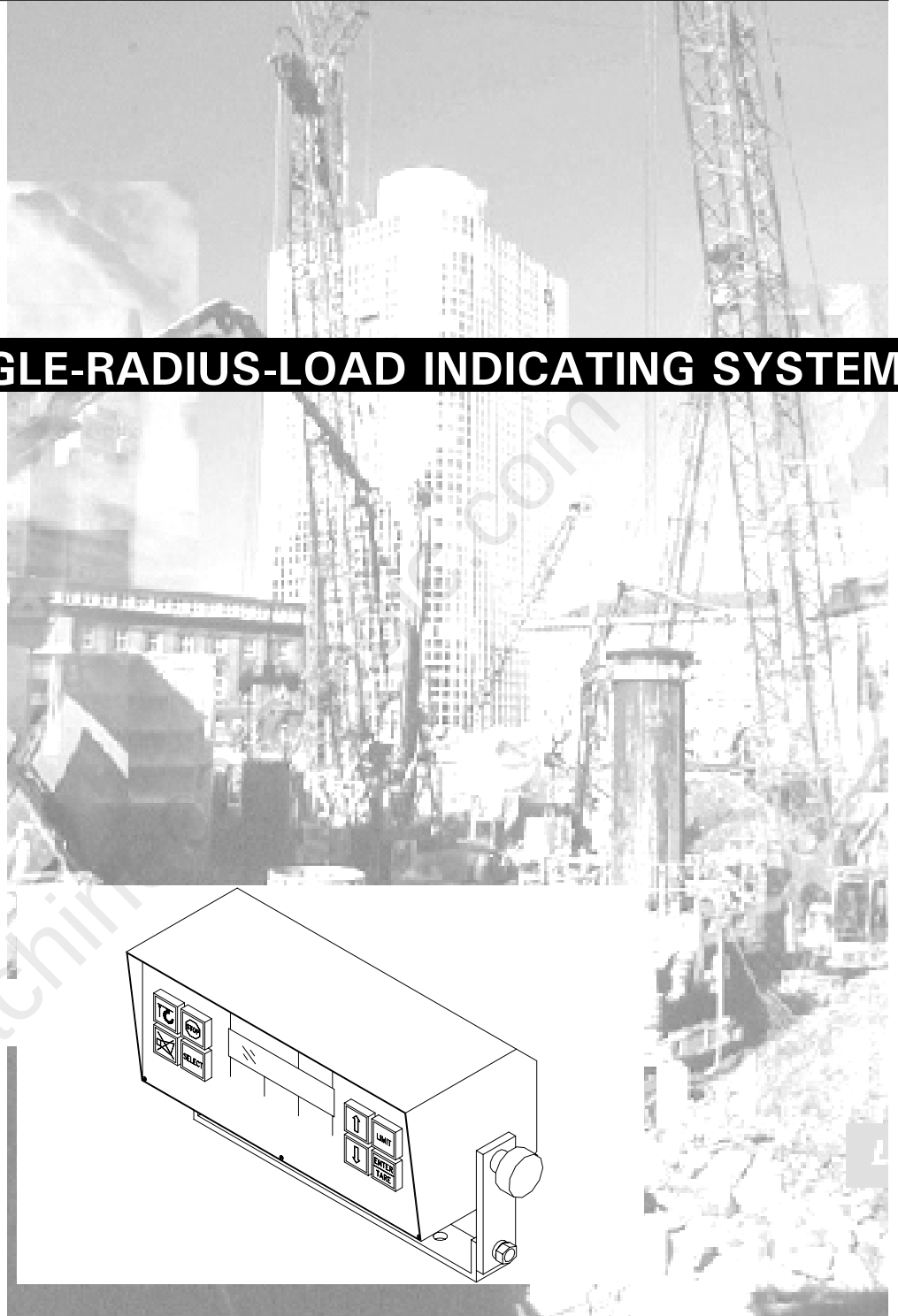




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EI65/0001

PAT America, Inc.



SERVICE MANUAL

P/N 031-300-101-047, Rev. A, 10/19/00

NOTICE

The information in this document is subject to change without notice.

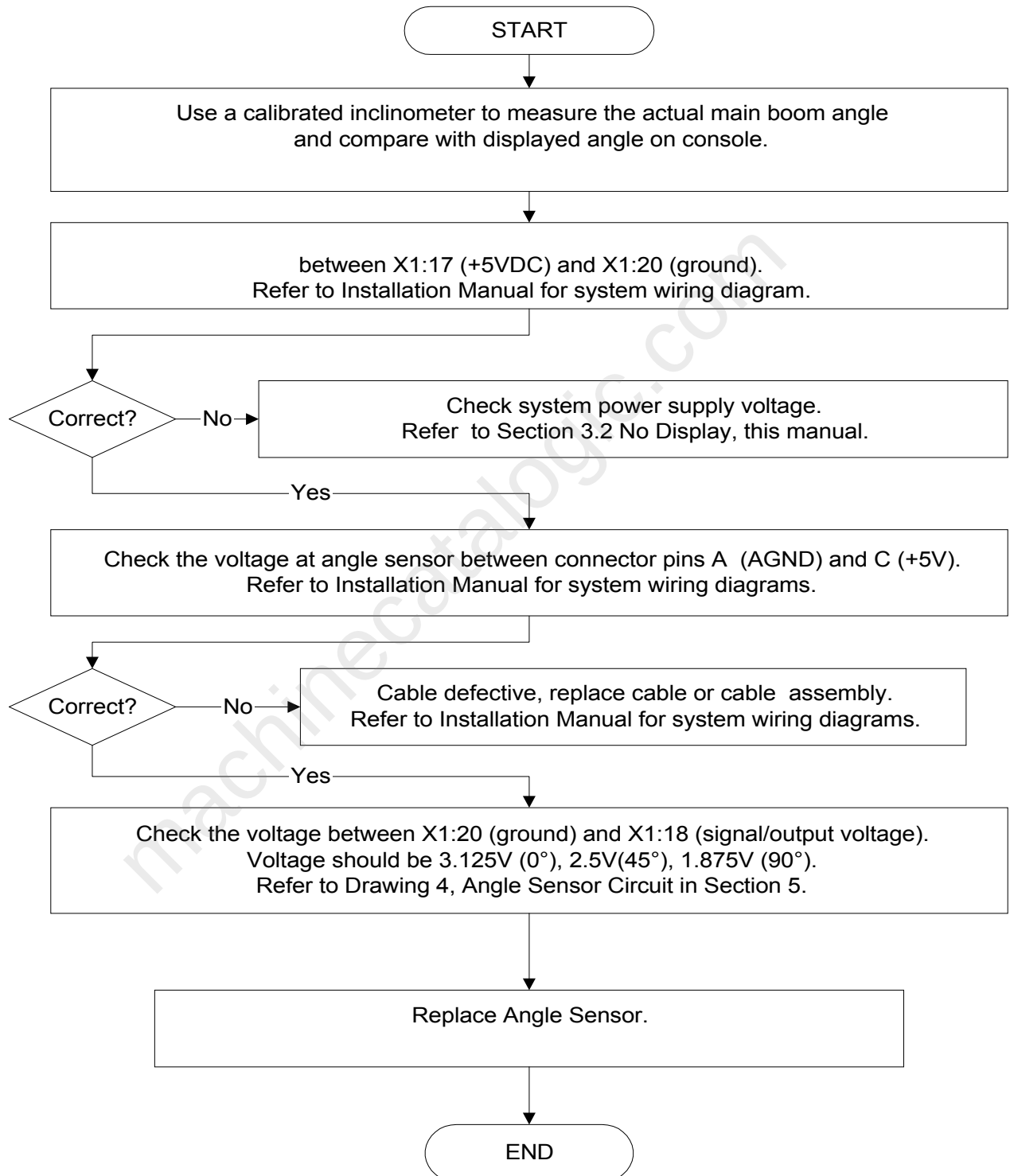
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3.4 ANGLE READING PROBLEM

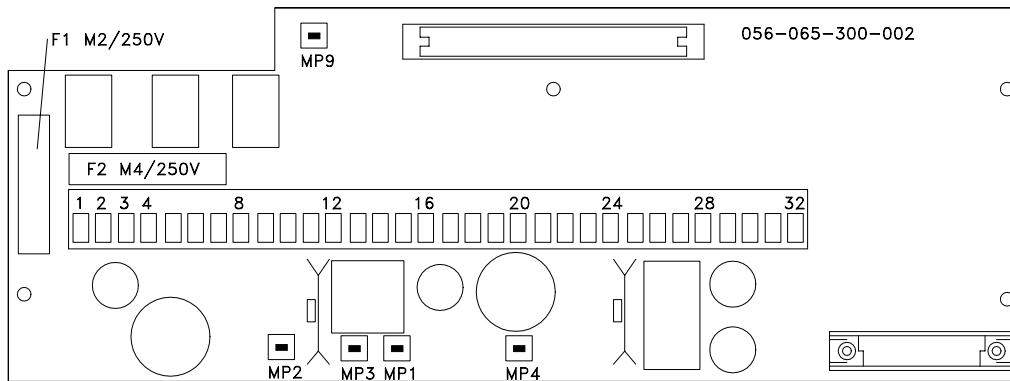
PROBLEM: Displayed Angle Incorrect. Actual measured angle is different from displayed angle.



4 ERROR CODE TABLE

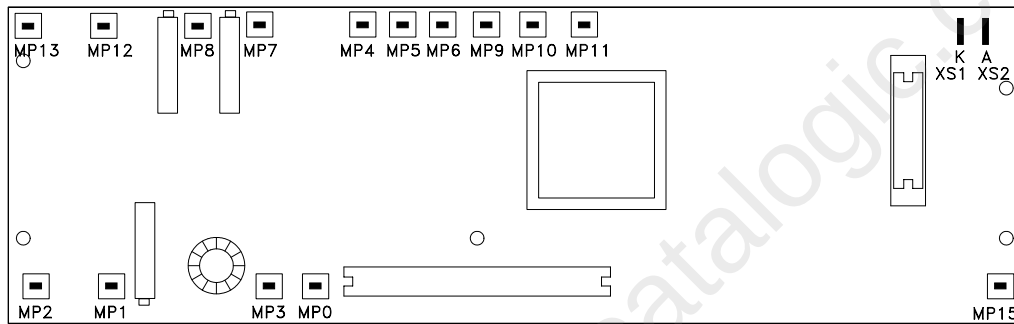
Error code	Reason	Action
11	Operating data in the buffered RAM	Turn on the system again and adjust operating data
21	Crane parameters in the serial EPROM incorrect	Re-calibrate the system
31	Wrong EPROM programming or EPROM defective	Exchange EPROM
51	Short circuit min layer device term 11&12	Check minimum 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
91	ADC-Measuring value LG1 too big	Check main length sensor circuit
92	ADC-Measuring value LG1 too low	Check main length sensor circuit
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

- Limit set by the operator refer to Operator's Manual, Section 4.3. Activating and Setting Preset Limits

6.2 DRAWING 2. CONNECTION BOARD LAYOUT

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

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

MAIN BOARD LAYOUT**6.3 DRAWING 3.**

COMPONENT SIDE OF MAIN BOARD 056-065-300-012



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 VOLTAGE
 MP10 = AN6 REFERENCE VOLTAGE
 MP11 = AN7 REFERENCE VOLTAGE
 MP12 = -0.5V
 MP13 = +5.0V
 MP15 = 5.25V

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