

REV. NO. /	TITLE	CONT ON SHEET	2	SH. NO.	1
P3K-AL-0323-A01	BOARD TEST SPECIFICATION: POWER SUPPLY MALFUNCTION WIRING - 1P2-H001.				
CONT ON SHEET	2	SH. NO.	1	FIRST MADE FOR	EHK MARK II /

1. PURPOSE

- A. The purpose of this specification is to convey the proper information needed to test the referenced circuit board for its proper function.
- B. To enable the skilled Test Engineer to produce the detailed Test Procedure for the referenced circuit board.

2. DOCUMENTS PERTAINING TO THIS SPECIFICATION

- A. Power Supply Malfunction Wiring - 118D1316
- B. AC/DC Power Ground System - 125D4436
- C.

ACTIVE FOR Test
BY HC DATE 7/10/97

3. EQUIPMENT NEEDED FOR TEST

- A. DC Power Supply - 24VDC nominal; 1 ampere output.
- B. 16 indicating devices - 24 VDC nominal, 80 ma current rating each.
- C. SPST Switch - 24VDC nominal, 5 ampere current breaking rating.
- D.

4. CIRCUIT DESCRIPTION

The card consists of 48 diodes used to steer voltage signals to various portions of the monitor panel. These signals are used to energize indicators on the Power Supply Monitor Panel to show various Power Supply malfunction.

5. CIRCUIT INTEGRATION

Whenever a Power Supply of the EHC System malfunctions a signal must be transmitted to the Malfunction Bus to be annunciated to the Operator. This card acts as a junction for all the power supply signals to a common Malfunction Bus.

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P3K-AL-0323-A01	
CONT ON SHEET 3	SH NO. 2

TITLE
BOARD TEST SPECIFICATION: POWER SUPPLY MALFUNCTION
WIRING - 1P2-H001.
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6. TEST INSTRUCTIONS

- A. Connect the board as shown in Figure 1.
- B. Apply +24 VDC to terminals 41 and 42, GROUND to terminal 43.
- C. Indicates 1 through 16 shall illuminate.
- D. Remove +24 VDC and GROUND from terminals 41, 42, and 43.
- E. Apply GROUND to terminals 41 and 42, +24 VDC to terminal 43.
- F. Indicators 1 through 8 only shall illuminate.
- G. Remove GROUND from terminal 41 and 42, and +24 VDC from terminal 43.
- H. Connect the board as shown in Figure 2.
- I. Apply +24 VDC to terminals 41 and 42, GROUND to terminal 43.
- J. Indicators 9 through 16 shall illuminate.
- K. Remove +24 VDC and GROUND from terminals 41, 42, and 43.
- L. Apply GROUND to terminals 41 and 42, +24 VDC to terminal 43.
- M. Indicators 9 through 16 shall not illuminate.
- N. Remove GROUND from terminals 41 and 42, +24 VDC from terminal 43.
- O. Connect the board as shown in Figure 3.
- P. Apply +24 VDC to the probe, GROUND point A.
- Q. Touch the probe to terminals 46, 48, 50, 52, 54, 56, 58, and 60.
Indicators 9 through 17 shall illuminate when the probe is touched to any of the above named terminals.
- R. Remove the +24 VDC and GROUND from the probe and point A.
- S. Connect GROUND to the probe and +24 VDC to point A.
- T. Touch the probe to terminals 46, 48, 50, 52, 54, 56, 58, and 60.
Indicators 9 through 17 shall not illuminate when the probe is touched to any of the above-named terminals.
- U. Remove the GROUND from the probe and +24 VDC from point A.
- V. Disconnect the indicators. Test complete.

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CONT ON SHEET 4 SH NO. 3

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BOARD TEST SPECIFICATION: POWER SUPPLY MALFUNCTION
WIRING - 1P2-H001

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FIRST MADE FOR EHC MARK II

7. REPORT SHEET

INDICATORS INDICATING

6.C

6.F

6.J

6.M

6.Q

6.T

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8. NOTES:

1. If any indicator does not indicate as described, the board is to be rejected.

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SH NO. 3

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TITLE

CONT ON SHEET 5

SH NO. 4

P3K-AL-0323-A01

BOARD TEST SPECIFICATION: POWER SUPPLY MALFUNCTION
WIRING - 1P2-H001

CONT ON SHEET 5 SH NO. 4

FIRST MADE FOR EHC MARK II

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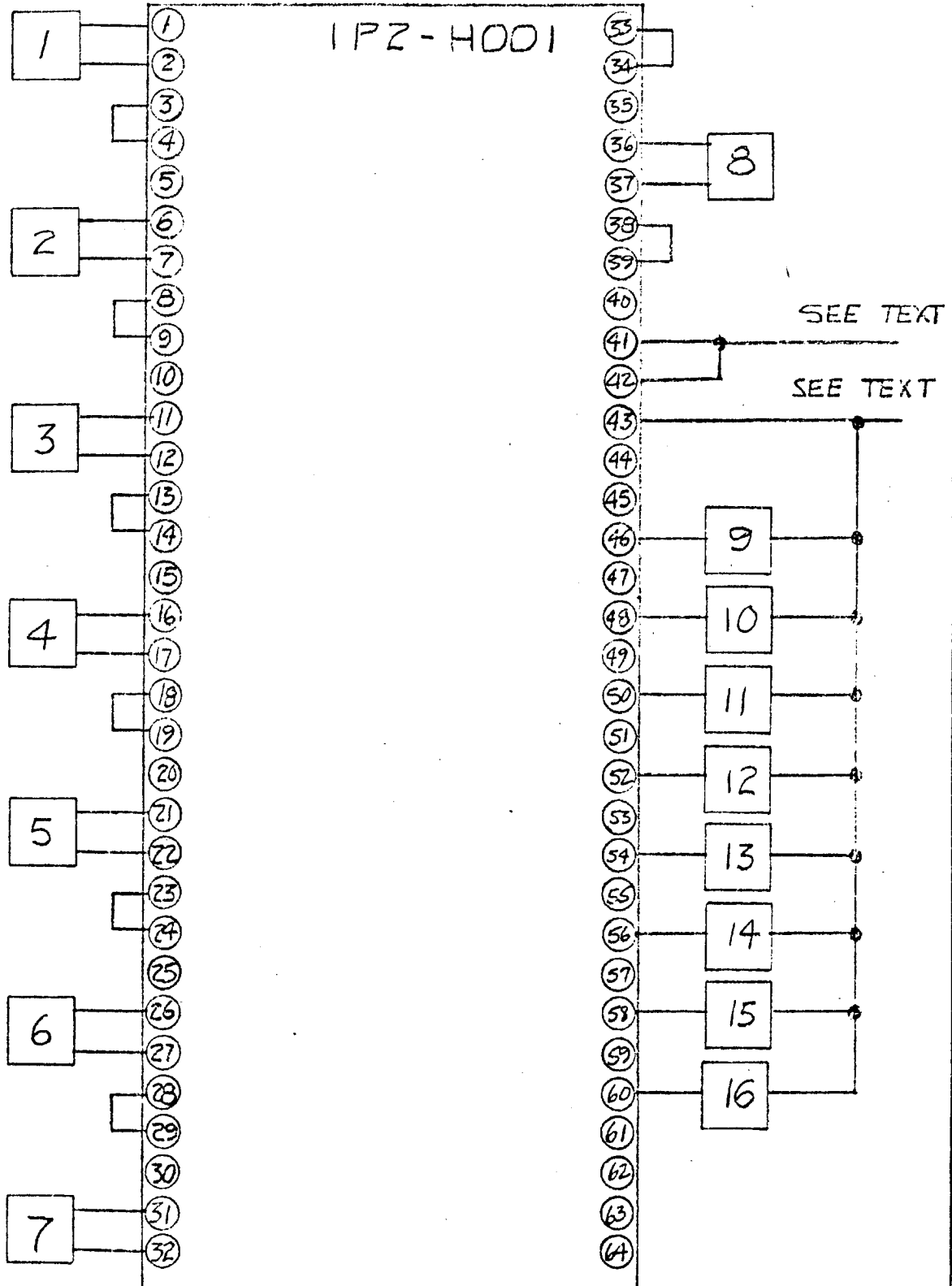


FIGURE 1

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SH NO. 4

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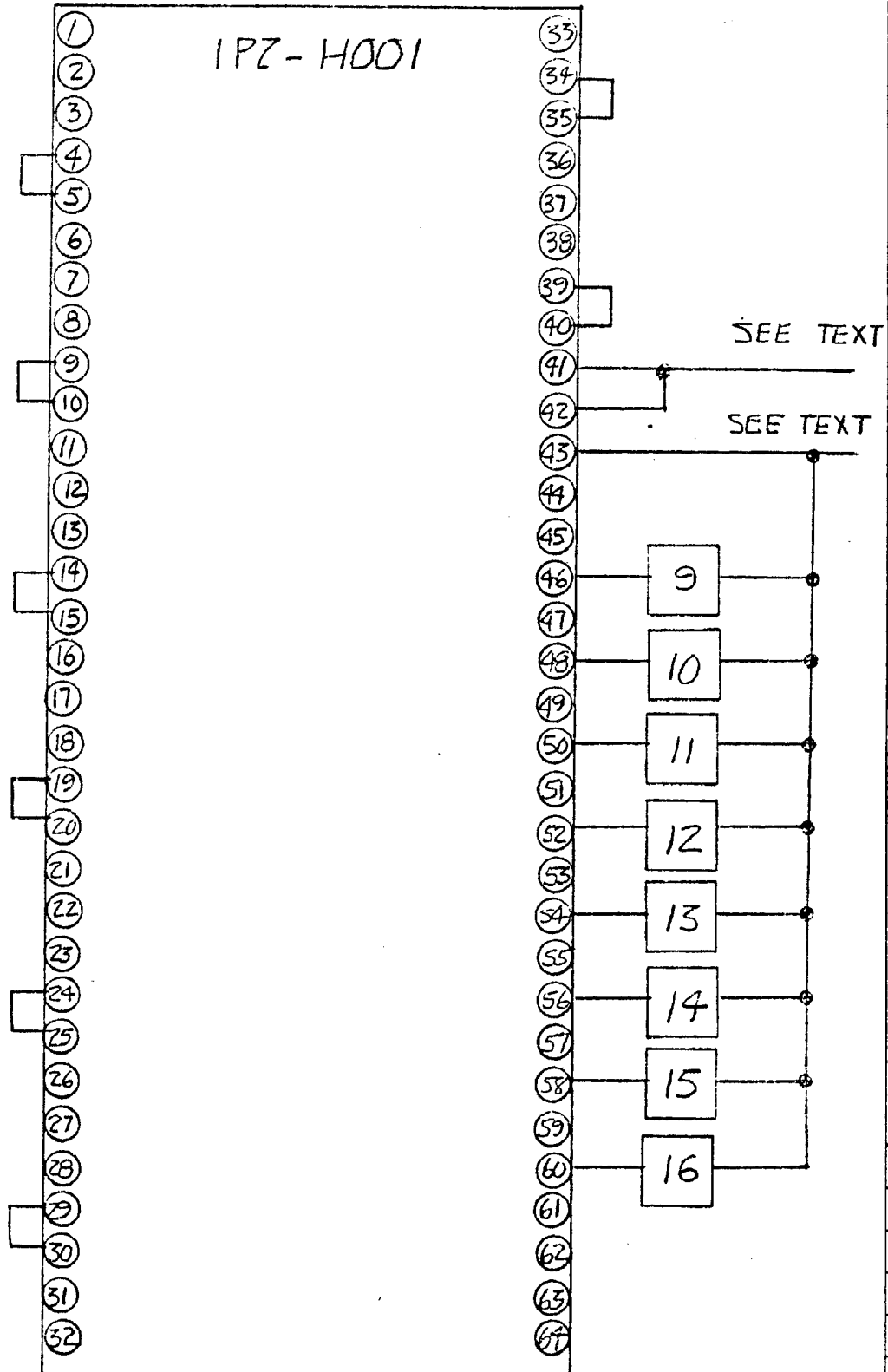
TITLE

P3K-AL-0323-A01

CONT ON SHEET 6 SH NO. 5

BOARD TEST SPECIFICATION: POWER SUPPLY MALFUNCTION
WIRING - 1P2-H001
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J. R. Riedel

FIGURE Z

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P3K-AL-0323-A01

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BOARD TEST SPECIFICATION: POWER SUPPLY MALFUNCTION		
WIRING - 1P2-H001		
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1 PZ-H001

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SEE TEXT

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FIGURE 3

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BOARD TEST SPECIFICATION - POWER SUPPLY MALFUNCTION
WIRING - 1P2-H001

CONT ON SHEET --- SH NO. 7

FIRST MADE FOR

REVISIONS

PREPARED BY

C.J. Barrigher

DATE

2/8/73

C.J. Barrigher
EHC DESIGN ENGINEERING

APPROVED BY

P.C. Callan

DATE

3-8-73

P. C. Callan - MANAGER
EHC DESIGN ENGINEERING

TEST PROCEDURE

PREPARED BY

C. Bugg

DATE

2/21/73

C. Bugg
EHC TEST ENGINEER

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D. Mone Feb. 8, 1977

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