

115D2994-601

GENERAL  ELECTRIC

P24B-AL-4950

REV  
NO.

TITLE CIRCUIT BOARD TEST DIODE BOARDS

CONT ON SHEET

2

SH NO. 1

P24B-AL-4950

CONT ON SHEET 2

SH NO. 1

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Test Instructions for Diode Board  
(945D814 G1 through G4)

1. Locate proper patchboard for testing this board group or wire up one according to the wire table included in these instructions.
2. A stepping switch is used to apply +30vdc or -22vdc through the diodes under test to excite a relay coil. The NC contact will light a red lamp on the panel.
3. SW<sup>4</sup> is used to select either +30vdc to the circuit (up position) or -22vdc (SW<sup>4</sup> down position).
4. Forward Conduction Test
  1. Select SW<sup>4</sup> up.
  2. If stepping switch is not in position one (01), depress B2 push button on test stand. This should automatically step the switch to the neutral position (previous to 01).
  3. Depress B<sup>4</sup>; this allows you to manually step the switch through any of its positions by pushing the button located to the left of B1.
  4. At this time, plug in the board under test to PCR2, a red light should illuminate on the test panel.
  5. Manually step to and through positions 01~31 verifying operation of the lights as indicated for particular board number under Test I. For Test II, SW<sup>4</sup> is placed in down position back bias the diodes with -22V.

NOTE: On Pg. 2 is listed the input and output pins on the card to enable troubleshooting of the boards of necessary.

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TITLE

CIRCUIT BOARD TEST DIODE BOARDS

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Test 1  
SW<sup>4</sup> (up)

PC Pin#	Step SW			PC Pin #	Step SW			Step SW		
Input	Pos.	Red	Green	Output	Pos.	Red	Green	Pos.	Red	Green
-	Neutral	x		-	Neutral	x		Neutral	x	
01	01		x	02	01		x	01		x
03	02		x	02	02		x	02		x
07	30		x	04	03		x	03		x
05	04		x	04	04		x	04		x
09	05		x	06	05		x	05		x
11	06		x	08	06		x	06		x
13	07		x	10	07		x	07		x
15	08		x	12	08		x	08		x
17	09		x	14	09		x	09		x
19	10		x	16	10		x	10		x
21	11		x	18	11		x	11		x
23	12		x	20	12	x		12		x
25	13		x	22	13		x	13		x
29	14		x	30	14		x	14		x
30	15		x	33	15	x		15		x
31	16		x	30	16	x		16		x
32	17		x	33	17	x		17		x
27	18		x	28	18	x		18		x
35	19		x	34	19		x	19		x
35	20		x	41	20	x		20	x	
35	21		x	40	21	x		21	x	
36	22		x	34	22		x	22		x
36	23		x	41	23	x		23	x	
36	24		x	38	24	x		24	x	
37	25		x	34	25	x		25	x	
-	Neutral	x		-	Neutral	x		Neutral	x	
37	26		x	40	26	x		26		x
37	27		x	38	27	x		27	x	
39	28		x	38	28	x		28	x	
39	29		x	40	29	x		29		x
39	30		x	41	30	x		30	x	
26	31		x	24	31	x		31		x
-	32~50	x		-	32~50	x		32~50	x	

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EC 4  
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TITLE

CIRCUIT BOARD TEST DIODE BOARDS

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CONT ON SHEET 4

SH NO. 2

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Test 11  
SW4 Down

Step Pos. Red Green

Neutral X  
1-50 X

Step Pos. Red Green

Neutral X  
1-50 X

Step Pos. Red Green

Neutral X  
1-50 X

After the boards have passed this test, stamp the board with a T stamp for permission to be coated.

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TITLE CIRCUIT BOARD TEST DIODE BOARDS   
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## Wire Table PCR2

### Level One

{ D26 - C27 } (SW4)   
 { C26 - B11 }   
 { C28 - B10 }   
 C1 - F1   
 C2 - F3   
 C3 - F7   
 C4 - F5   
 C5 - F9   
 C6 - F11   
 C7 - F13   
 C8 - F15   
 C9 - F17   
 C10 - F19   
 C11 - F21   
 C12 - F23   
 C13 - F25   
 C14 - F29   
 C15 - F30   
 C16 - F31   
 C17 - F32   
 C18 - F27   
 C19 - G3   
 C20 - G3   
 C21 - G3   
 C22 - G4   
 C23 - G4   
 C24 - G4   
 C25 - G5   
 D1 - G5   
 D2 - G5   
 D3 - G7   
 D4 - G7   
 D5 - G7

### Level Two

J26 - Z34   
 Y34 - G12   
 M1 - F2   
 H2 - F2   
 H3 - F4   
 H4 - F4   
 H5 - F6   
 H6 - F8   
 H7 - F10   
 H8 - F12   
 H9 - F14   
 H10 - F16   
 H11 - F18   
 H12 - F20   
 H13 - F22   
 H14 - F30   
 H15 - G1   
 H16 - F30   
 H17 - G1   
 H18 - F28   
 H19 - G2   
 H20 - G9   
 H21 - G8   
 H22 - G2   
 H23 - G9   
 H24 - G6   
 H25 - G2   
 J1 - G8   
 J2 - G6   
 J3 - G6   
 J4 - G8   
 J5 - G9   
 J6 - F24

### Relay

W34 - B13   
 S34 - E1   
 V34 - E9

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**TITLE**

CIRCUIT BOARD TEST DIODE BOARDS

P24B-AL-4950

CONT ON SHEET —

SH NO. 5

FIRST MADE FOR

REVISIO

Prepared by

Date \_\_\_\_\_

B.D. Murphy  
Control Design Engineering

Approved by

Date \_\_\_\_\_

P.C. Callan - Manager  
Control Design Engineering

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## Data Sheet

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