

REV NO. 3

TITLE

PROCESS INSTRUCTIONS  
FOR TESTING 125 V RELAY BOARD

P24B-AL-4816

CONT ON SHEET 2 SH NO. 1

FIRST MADE FOR

ASSY  
996095761

G1-3-5-7

SCOPE

POWER RELAY BOARD

- (A) GENERAL
- (B) TEST EQUIPMENT
- (C) SET UP
- (D) RESISTANCE TEST
- (E) CURRENT TEST
- (F) SWITCHING TEST
- (G) ARC SUPPRESSION TEST
- (H) VOLTAGE PROFILE TEST

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STEAM TURBINE

DIV OR  
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P24B-AL-4816

SCHENECTADY

LOCATION

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REV NO. <u>2</u> 3	TITLE PROCESS INSTRUCTIONS FOR TESTING 125 V RELAY BOARD		CONT ON SHEET 3	SH NO. 2
P24B-AL-4816	FIRST MADE FOR 170X337 and 170X325			
<p>(A) <u>GENERAL</u></p> <p>The 125 VDC power relay board consists of                      relays each of which contains one N.C. and a N.O. contact each set of contacts contains a common lead. The common and N.O. and N.C. contacts are brought out of the P.C. board at a 41 pin connector.</p> <p>Mercury wetted relays (G.E. dwg. U4039) are used. Since they are operated at approximately 50 VDC, dropping resistors are seriesed with them. The relays are also operated through the 41 pin connector.</p> <p>The tests are set up for panel operation, ie, no probes are applied to the board unless troubleshooting is indicated.</p> <p>The first test, RESISTANCE TEST, is used to determine whether or not a board is ready for the application of power. Upon satisfactory performance of this test, the relays are energized.</p> <p>In the "Current Test" the relay is checked for proper current by measuring the voltage drop across a resistor of about 1/10 the circuit resistance.</p> <p>The switching test uses lamps as indicators of contact performance.</p> <p>The contacts of some relay boards (see table) are protected by an RC network across each contact. This is used to help protect against contact damage due to breaking of the current path to inductive loads.</p> <p>When test has been completed and data recorded as required, sign and date the data sheet and furnish Control Engineering with one (1) copy.</p>				REVISION MAR 14 1969 APR 1 1969 3 O. D. D. P. 21 ET-27 273-71 273-2 273-12 273-13 273-13 R21 PRINTS TO
MADE BY J.W. KOZUBAL Mar. 21, 68	APPROVALS	STEAM TURBINE	DIV OR DEPT.	P24B-AL-4816
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P24B-AL-4816	FIRST MADE FOR <u>170X337 and 170X325</u>		
CONT ON SHEET <u>4</u>	SH NO. <u>3</u>		
(B) <u>TEST EQUIPMENT</u> <ol style="list-style-type: none"> <li>(1) Standard Patch Panel</li> <li>(2) Patch Board (Marked: Power Relay Board 125 V)</li> <li>(3) Oscilloscope, both inputs floating</li> <li>(4) Voltmeter, Digital, Hewlett Packard 3440A or equiv.</li> <li>(5) Ohmmeter, Simpson Multitester or Equiv.</li> <li>(6) Power Supply, @ <math>\frac{1}{2}</math> amp, Output within 1% no load to full load, ripple less than .03 Volts RMS. Both outputs floating. 50 - 300 VDC variable</li> <li>* (7) Resistor, 500 <math>\Omega</math> <math>\pm</math> 5% @ 5W (PCR 1-3) Resistor 2K <math>\pm</math> 5% @ 5W (PCR 4)</li> <li>(8) Inductor, L, U4039 Relay Coil or Equiv.</li> <li>(9) CAPACITOR, C, 1 <math>\mu</math>f</li> </ol>			REVISION MAR 14 1969 1 D. DeNo APR 11 1969 2 D. DeNo 3 D. DeNo 4-27 273-7 273-2 273-1 273-1 273-1 R2 PRINTS 1
MADE BY J.W. KOZUBAL Mar. 21, 68	APPROVALS	STEAM TURBINE	DIV OR DEPT.
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P24B-AL-4816	PROCESS INSTRUCTIONS FOR TESTING 125 V RELAY BOARD		
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(C) SET UP

CAUTION: A resistance test will be run first. The 125 V and 24 Volt power must be off when the board under test is plugged in. Failure to follow this will cause damage if there are shorts in the board.

- (1) Interconnect patch board and test panel as shown in fig. 1 by using pre-wired patch board.
- (2) Connect external 500  $\Omega$ /5W resistor (PCR1-3) or 2K/5W resistor (PCR4) between BP-7 and BP-8.
- (3) Connect DVM to BP-7 and BP-8 (+ on BP-7).
- (4) Connect external power supply (125 VDC) to BP-1 and BP-2 (+ on BP-1).
- (5) Connect L to BP-9 and BP-10.
- (6) Connect ohmmeter to BP-5 and BP-6.
- (7) Connect 1  $\mu$ f capacitor from BP-11 to BP-12

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PRINTS 1

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FL-1

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REV NO. 3

TITLE

P24B-AL-4816

PROCESS INSTRUCTIONS  
FOR TESTING 125 V RELAY BOARD  
FIRST MADE FOR 170X337 and 170X325

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SH NO. 5

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(D) RESISTANCE TEST

- (1) Remove all power and set SW3 down.
- (2) Plug board into PCR-1 or PCR-2 or PCR-3 or PCR-4 (see table 1).  
(Several shorts exist if plugged into wrong one)
- (3) To test for short between 125 V and 24 V circuits  
Set switches as follows:

	<u>DOWN</u>	<u>CENTER</u>	<u>UP</u>	<u>STEP SWITCH</u>
	SW3			Position 1
	SW4			
	SW5			
	SW6			
S	SW7			
	SW8			

Step from 1 to 8 of stepping switch readings greater than 1 Meg. Record lowest reading.

- (4) To check resistance of each relay-coil dropping resistor circuit:  
SW7 UP  
Step from 1 through 8 and record readings.  
Readings  $4.4 \pm .5K$  (PCR1-3)  $19.6 \pm 2K$  (PCR-4)
- (5) To check resistance of lamp circuits.  
S5 UP SW6 UP  
SW7 UP  
Move ohmmeter probe from BP-5 to BP-2  
step from 1 to 8 and record readings.  
Reading: Less than 50- $\Omega$   
Remove ohmmeter

If all resistance readings are normal, proceed to "current test."

Special Note about Step (D-4) Reference figure 1 page 15.

There are two 2K resistors in parallel and in series with the coil. Since the coil resistance is 8600 ohms and the 2 resistors make up another 1000 ohms, that max reading would only be 9600 ohms (9.6K).

C. Wade  
3/17/2012

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## SH NO. 6

REV NO. <u>2.3</u>	TITLE PROCESS INSTRUCTIONS FOR TESTING 125 V RELAY BOARD	CONT ON SHEET 8	SH NO. 7
P24B-AL-4816	FIRST MADE FOR 170X337 and 170X325		

(F) SWITCHING TEST

This test will check the operation of the relay contacts.

(1)	<u>DOWN</u>	<u>CENTER</u>	<u>UP</u>	<u>STEP SWITCH</u>
	SW4		SW3	POSITION 1
	SW8		SW5	
			SW6	
			SW7	

(2) Apply 24 VDC along with the 125 VDC applied previously.

(3) step 1 through 8  
observe that PL-2 light for all 8 steps.  
PL-1 should not light.

(4) SW-7 down

(5) step 1 through 8  
observe PL-1 lights for all 8 steps  
PL-2 should not light

(6) Since, in the above tests, the common leads of the contacts were tied together, it is necessary to check adjacent pins of the plug, on the board, for shorts. This is done as follows:

(7) press PB-1 and step 1 through 8  
PL-1 should not light in steps 1 and 5

(8) press PB-2 and step 1 through 8  
PL-1 should not light in steps 2 and 6

(9) press PB-3 and step 1 through 8  
PL-1 should not light in steps 3 and 7

(10) press PB-4 and step 1 through 8  
PL-1 should not light in steps 4 and 8

If arc suppression is included, proceed with test on next page. If the board under test does not have this feature, skip the arc suppression test and perform the low voltage test.

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REV NO. <b>3</b>		TITLE		CONT ON SHEET		SH NO. <b>8</b>											
F24B-AL-4816		PROCESS INSTRUCTIONS FOR TESTING 125 V RELAY BOARD															
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<p>(G) <u>ARC SUPPRESSION TEST</u></p> <p>(1) Readjust voltage <del>to</del> 125 VDC/</p> <p>(2) N.C. Contacts</p> <table border="1"><thead><tr><th><u>Down</u></th><th><u>Center</u></th><th><u>Up</u></th><th><u>Step Sw.</u></th><th><u>S2</u></th></tr></thead><tbody><tr><td>SW4</td><td>SW5</td><td>SW3 SW6 SW7 SW8</td><td>1</td><td>1</td></tr></tbody></table> <p>NOTE: SW8 cuts in "L" between BP-9 and BP-10</p> <p>(3) Pressing and releasing of PB-5 will cause the contacts open and close. Observe scope and note that no spikes of appreciable amplitude exist on contacts associated with the step switch position. <i>Record amplitude of highest spike.</i></p> <p>(4) Perform step 3 for step switch position 1 through 8.</p> <p>(5) N.O. contacts SW6 down SW5 up set SW2 to position 2</p> <p>(6) Perform step 3 for step switch positions 1 through 8.</p>							<u>Down</u>	<u>Center</u>	<u>Up</u>	<u>Step Sw.</u>	<u>S2</u>	SW4	SW5	SW3 SW6 SW7 SW8	1	1	REVISION
							<u>Down</u>	<u>Center</u>	<u>Up</u>	<u>Step Sw.</u>	<u>S2</u>						
SW4	SW5	SW3 SW6 SW7 SW8	1	1													
							100-249-10-1										
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							ISSUED		LOCATION SCHENECTADY, NY		CONT ON SHEET 9 SH NO. 8						



REV. NO. <b>13</b>	TITLE PROCESS INSTRUCTIONS FOR TESTING 125 V RELAY BOARD		CONT ON SHEET 10 SH NO. 9	
P24B-AL-4816		FIRST MADE FOR 170X337 and 170X125		
<p>(H) <u>VOLTAGE PROFILE TEST</u></p> <p>(1) ADJUST EXTERNAL POWER SUPPLY FOR 70 VDC.</p> <p>(2) repeat steps 1 through 5 of "SWITCHING TEST". Relays must show proper operation at this reduced voltage.</p> <p>(3) Remove power.</p> <p>(4) Remove relay board from socket.</p> <p>TEST COMPLETE</p>				REVISION
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ISSUED MAR 27 1968			P24B-AL-4816	
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REV. NO. <b>3</b>	TITLE PROCESS INSTRUCTIONS FOR TESTING 125 V RELAY BOARD	CONT ON SHEET 11 SH NO. 10
P24B-AL-4816	FIRST MADE FOR 170X337 and 170X325	

TABLE I

<u>PL</u>	<u>SCHEMATIC</u>	<u>IDENT.</u>	<u>TEST AT</u>
942D355G1	942D356	Power Relay 125 V Comm. Coils No Contact Protection	PCR-1
947D398G2	947D379	125 V Relay Bd. Comm. Coils No Contact Protection	PCR-3
947D386G1	947D388	125 V Relay Bd. No Comm. Coils With Contact Protection	PCR-2
947D398G1	948D810	125 V Relay Bd. Comm. Coils With Contact Protection	PCR-3
114D6063	114D6-57	125 V Relay Bd. Comm. Coils With Contact Protection	PCR-3
947D386G2	947D389	125 V Relay Bd. No Comm Coils No Contact Protection	PCR-2
* 996D957 G1	141C8324	125V Relay Bd. Comm. Coils With Contact Protection	PCR-4
* 114D6065 G1	114D6058	125V Relay Bd. No Comm. Coils With Contact Protection	PCR-2
* 114D6065 G2	947D389	125V Relay Bd. No Comm. Coils Without Contact Protection	PCR-2

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APR 4 1969

B. D. Murphy

J. O. DeJara

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TITLE  
PROCESS INSTRUCTIONS  
FOR TESTING 125 V RELAY BOARD  
FIRST MADE FOR 170X337 and 170X325

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TABLE III

Note: A to E PIN NUMBERS

PCR-1

A to SSW-1		B to SW-7 Comm		C to SSW-2		D to PB		E to SSW-3	
Pin	Pos.	Pin	Contact	Pin	Pos.	Pin	PB	Pin	Pos.
10	1	20	SW-7 Comm	8	1	14	1	7	3
12	2			6	2	15	2	5	2
9	3			1	3	17	3	2	3
37	4			4	4	18	4	3	4
33	5			28	5	34	1	27	5
30	6			22	6	36	2	26	6
29	7			25	7	39	3	23	7
37	8			21	8	41	4	24	8

PCR-2

A to SSW-1		B to SW-7 Comm.		C to SSW-2		D to PB		E to SSW-3	
Pin	Pos.	Pin	Contact	Pin	Pos.	Pin	PB	Pin	Pos.
10	1	11	SW-7 Comm	8	1	9	1	7	1
13	2	14	" "	6	2	15	2	5	2
16	3	21	" "	1	3	20	3	3	3
17	4	18	" "	4	4	19	4	2	4
30	5	31	" "	29	5	32	1	28	5
33	6	34	" "	27	6	41	2	26	6
35	7	* 40	" "	25	7	39	3	24	7
36	8	37	" "	23	8	38	4	22	8

PCR-3

A to SSW-1		B to SW-7 Comm.		C to SSW-3		D to PB		E to SSW-3	
Pin	Pos.	Pin	Contact	Pin	Pos.	Pin	PB	Pin	Pos.
10	1	12	SW-7 Comm	8	1	9	1	7	1
13	2			6	2	15	2	5	2
16	3			1	3	20	3	3	3
17	4			4	4	19	4	2	4
30	5			29	5	32	1	28	5
33	6			27	6	41	2	26	6
35	7			25	7	39	3	24	7
36	8			23	8	38	4	22	8

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MAR 11 1969

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2 D. D. Dora

3 D. D. Dora

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STEAM TURBINE

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P24B-AL-4816

SCHENECTADY

LOCATION

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TITLE  
PROCESS INSTRUCTIONS  
FOR TESTING 125 V RELAY BOARD  
FIRST MADE FOR 170X337 and 170X325

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TABLE III

Note: A to E PIN NUMBERS

PCR-4

A to SSW-1		B to SW-7 Comm		C to SSW-2		D to PB		E to SSW-3	
Pin	Pos.	Pin	Contact	Pin	Pos.	Pin	PB	Pin	Pos.
35	1	41	SW-7 Comm	7	1	8	1	9	1
33	2	39	"	10	2	11	2	12	2
31	3			13	3	14	3	15	3
29	4			16	4	17	4	18	4
27	5			19	5	20	1	21	5
25	6			4	6	5	2	6	6
37	7			1	7	2	3	3	7
--	8			--	8	--	4	--	8

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P24B-AL-4816

Schenectady, N. Y.

LOCATION

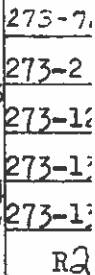
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TITLE	PROCESS INSTRUCTIONS FOR TESTING 125 V RELAY BOARD
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<div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> <p>Reviewed With : <u>R. DellOyano / R.E. Squillace</u>            R. DellOyano            EHC Manufacturing</p> <p>Prepared By : <u>R.E. Squillace</u>            R.E. Squillace            Turbine Control Engineering</p> <p>Approved By: _____            P.C. Callan, SUPERVISOR            Turbine Control Engineering</p> </div> <div style="width: 15%; border-left: 1px solid black; padding-left: 5px;">             REVISION  <u>3</u> <u>D. DellOyano</u>  <u>2</u> <u>R. DellOyano</u>  <u>1</u> <u>R. DellOyano</u> </div> </div>		
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 30%;"> <p>MADE BY <u>D. DellOyano</u> <u>Sept 9, 1970</u></p> <p>ISSUED</p> </div> <div style="width: 30%;"> <p>APPROVALS</p> </div> <div style="width: 30%;"> <p>STEAM TURBINE</p> <p>SCHENECTADY, NY</p> </div> <div style="width: 10%;"> <p>DIV OR DEPT.</p> <p>LOCATION</p> </div> <div style="width: 20%;"> <p>P24E-AL-4816</p> <p>CONT ON SHEET ----- SH NO. 14</p> </div> </div>		

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PRINTS 1

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# Data Sheet

Job # _____							Burn-in Start _____	
Serial # _____							Burn-in Stop _____	
Date _____							Technician _____	
Data Sheet for 996D957G0001								
Test Procedure P24B-AL-4816								

Test Procedure Step	Nominal	Lower Limit	Pre-Burn in Results	Post Burn in Results	Upper Limit	Pot Values If applicable		Pass/Fail
						CW	CCW	
D3-1	>1M ohm	>1M ohm			>1M ohm	-	-	
D3-2	>1M ohm	>1M ohm			>1M ohm	-	-	
D3-3	>1M ohm	>1M ohm			>1M ohm	-	-	
D3-4	>1M ohm	>1M ohm			>1M ohm	-	-	
D3-5	>1M ohm	>1M ohm			>1M ohm	-	-	
D3-6	>1M ohm	>1M ohm			>1M ohm	-	-	
D3-7	>1M ohm	>1M ohm			>1M ohm	-	-	
D3-8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
D4-1	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-2	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-3	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-4	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-5	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-6	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-7	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Special Note: D4-1 thru D4-7, resistances are not attainable due to to change in test circuit. Values will be around 9600K ohms.


# Data Sheet

Job # _____					Burn-in Start _____  Burn-in Stop _____  Technician _____			
Serial # _____								
Date _____								
Data Sheet for _____ 996D957G0001 _____								
Test Procedure _____ P24B-AL-4816 _____								
Test Procedure	Nominal	Lower Limit	Pre-Burn in Results	Post Burn in Results	Upper Limit	Pot Values If applicable		Pass/Fail
E4-1	19.4VDC	17.4VDC			21.4VDC	-	-	
E4-2	19.4VDC	17.4VDC			21.4VDC	-	-	
E4-3	19.4VDC	17.4VDC			21.4VDC	-	-	
E4-4	19.4VDC	17.4VDC			21.4VDC	-	-	
E4-5	19.4VDC	17.4VDC			21.4VDC	-	-	
E4-6	19.4VDC	17.4VDC			21.4VDC	-	-	
E4-7	19.4VDC	17.4VDC			21.4VDC	-	-	
E4-8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F3	-	-			-	-	-	
F5	-	-			-	-	-	
F7	-	-			-	-	-	
F8	-	-			-	-	-	
F9	-	-			-	-	-	
F10	-	-			-	-	-	
G4	-	-			-	-	-	
G6	-	-			-	-	-	
Special Note: E4-1 thru E4-7, voltages are not attainable due to to changes in test circuit. Values will be around 19.4VDC +-2VDC.								



# Data Sheet

Job # _____					Burn-in Start _____			
Serial # _____					Burn-in Stop _____			
Date _____					Technician _____			
Data Sheet for 996D957G0003								
Test Procedure P24B-AL-4816								

Test Procedure Step	Nominal	Lower Limit	Pre-Burn in Results	Post Burn in Results	Upper Limit	Pot Values If applicable		Pass/Fail
						CW	CCW	
E3-1	19.4VDC	17.4VDC			21.4VDC	-	-	
E3-2	19.4VDC	17.4VDC			21.4VDC	-	-	
E3-3	19.4VDC	17.4VDC			21.4VDC	-	-	
E3-4	19.4VDC	17.4VDC			21.4VDC	-	-	
E3-5	19.4VDC	17.4VDC			21.4VDC	-	-	
E3-6	19.4VDC	17.4VDC			21.4VDC	-	-	
E3-7	19.4VDC	17.4VDC			21.4VDC	-	-	
E3-8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F1	-	-	-	-	-	-	-	
F2	-	-	-	-	-	-	-	
F3	-	-	-	-	-	-	-	
F4	-	-	-	-	-	-	-	
F5	-	-	-	-	-	-	-	
F6	-	-	-	-	-	-	-	
F7	-	-	-	-	-	-	-	

Special Note: E3-1 thru E3-7, voltages are not attainable due to changes in test circuit. Values will be around 19.4VDC +-2VDC.


# Data Sheet

Job # _____							Burn-in Start _____	
Serial # _____							Burn-in Stop _____	
Date _____							Technician _____	
Data Sheet for 996D957G0003								
Test Procedure P24B-AL-4816								
Test Procedure Step	Nominal	Lower Limit	Pre-Burn in Results	Post Burn in Results	Upper Limit	Pot Values If applicable CW      CCW		Pass/Fail
D3-1	1M ohm	1M ohm			1M ohm	-	-	
D4-1	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-2	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-3	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-4	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-5	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-6	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-7	9.6K ohm	7.6K ohm			11.6K ohm	-	-	
D4-8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
D5-1	<50 ohm	<50 ohm			<50 ohm	-	-	
D5-2	<50 ohm	<50 ohm			<50 ohm	-	-	
D5-3	<50 ohm	<50 ohm			<50 ohm	-	-	
D5-4	<50 ohm	<50 ohm			<50 ohm	-	-	
D5-5	<50 ohm	<50 ohm			<50 ohm	-	-	
D5-6	<50 ohm	<50 ohm			<50 ohm	-	-	
D5-7	<50 ohm	<50 ohm			<50 ohm	-	-	
D5-8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Special Note: D4-1 thru D4-7, resistances are not attainable due to to change in test circuit. Values will be around 9600K ohms.								