TO: ALL HOLDERS OF WINDOW AND COMBINED PITOT STATIC HEAT MODULE ASSEMBLY P5-9 OVERHAUL MANUAL, 31-10-68

REVISION NO 19, DATED NOV 1/08

HIGHLIGHTS

DESCRIPTION OF CHANGE	TOPICS AFFECTED												
	D&O	D/Assy	Cleaning	Insp/Chk	Repair	Assy	F/C	Test	T/Shooting	S/Tools	Storage	IPL	L/Overhaul
Removed BAE Systems assemblies from manual	X				X			X	X			X	

WINDOW AND COMBINED PITOT STATIC HEAT MODULE ASSEMBLY P5-9

31-10-68

BOEING P/N 65C21465-8, -9, -10

AIRLINE P/N

THE FOLLOWING DIRECTIVES APPLY TO THIS SUBJECT:

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVES	DATE DIRECTIVE INCORPORATED INTO TEXT
		PRR 30667	May 15/68
		PRR 30676	May 15/68
		PRR 31088	May 15/68
		PRR 30891	Feb 15/69
33-1013 Rev 1		PRR 31143	Feb 15/69
		PRR 31253	Nov 10/69
24-1014		PRR 31763	Nov 10/69
		PRR 32373	Mar 25/75
30-1017		MC 3260-4K	Jul 5/81
24-1014 Rev 1		PRR 31763	Mar 1/95

LIST OF EFFECTIVE PAGES

* Indicates pages revised, added or deleted in latest revision
F Indicates foldout pages - print one side only

PAGE	DATE
31-10-68	
* T-1	Nov 1/08
T-2	BLANK
* LEP-1	Nov 1/08
LEP-2	BLANK
* T/C-1	Nov 1/08
T/C-2	BLANK
* 1	Nov 1/08
* 2	Nov 1/08
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* 401	Nov 1/08
402	BLANK
* 701	Nov 1/08
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* 1101	Nov 1/08
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* 1108A	DELETED
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* 1110	DELETED
* 1111	DELETED
* 1112	DELETED

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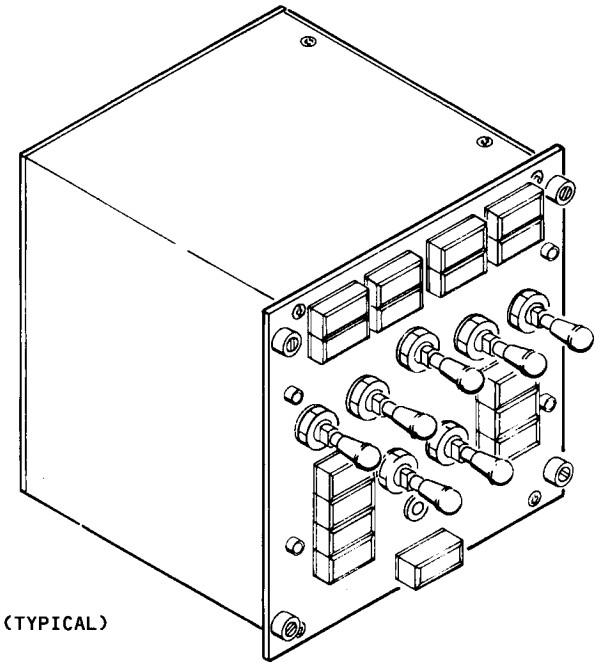
*[1] Use applicable procedures in SOPM 20-11-04, OHM 31-10-01 and standard industry practices.

*[2] Special instructions are not necessary.

WINDOW AND COMBINED PITOT STATIC HEAT MODULE ASSEMBLY (P5-9)



Window And Combined Pitot Static Heat Module Assembly (P5-9)
Figure 1

DESCRIPTION AND OPERATION

NOTE: For coverage of 69-37346-1, -2, -13, -14, -16, -17, -18, -19, -20, -21, -22, -23, -24, -25, -26, -29, -32, -33, -35, -36, -37, -38, -42, -43, -45, -48, refer to BAE Systems Controls Inc., (V89954 BAE Systems Controls Inc., 600 Main St., Johnson City, NY 13790-1806) CMM 31-10-68.

1. Description

   A. The window and combined pitot static heat module assembly consists of five printed circuit assemblies, indicator light assemblies, control switches, and a wire bundle assembly. The module assembly is located in the pilot's overhead panel and may be easily removed for inspection or repair by loosening the four quick-disconnect screws on the baseplate and by disconnecting the power connectors.

2. Operation

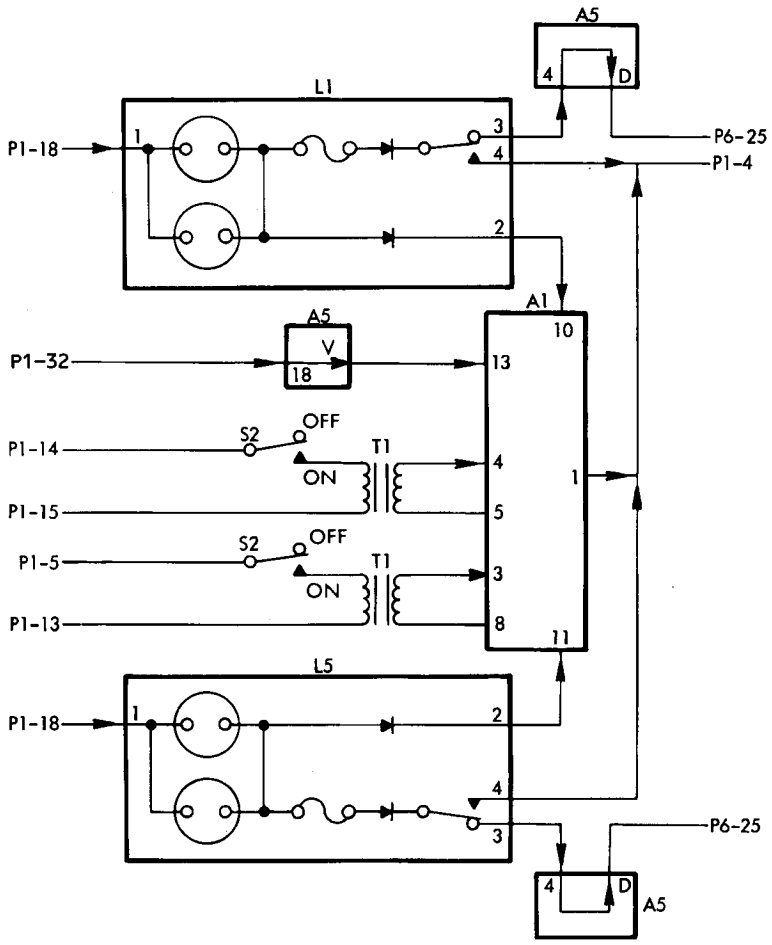
A. The window and combined pitot static heat module assembly controls the heating of the left and right pitot static tubes, elevator left and right pitot static tubes, auxiliary pitot tube, and the temperature probe to prevent the formation of ice on the sensors, which could affect sensing accuracy.

3. Functional Description

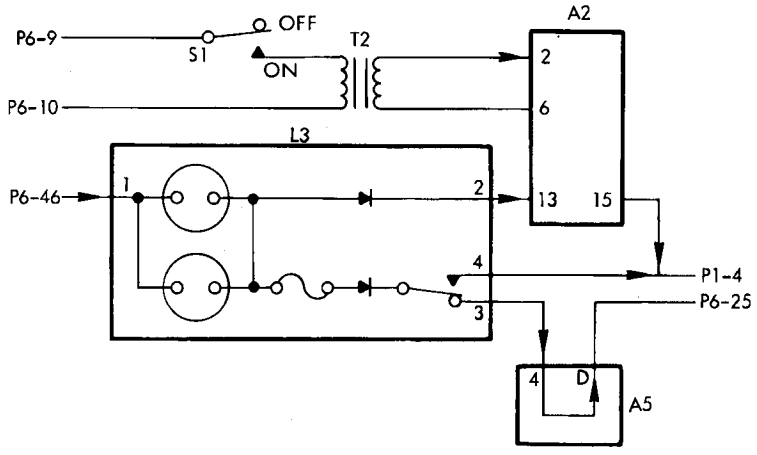
A. All indicator lamps receive +28-volt dc circuit power at lamp pin 1 and require a ground at either pin 2, 3, or 4 to be illuminated. Lamps L1, L5, L6, L7, L8, L11, L12 receive +28 volts dc from P1-18. Lamps L2, L3, L4, L9, L10, L13, L14 receive +28 volts dc from P6-46. Pins 4 of all lamps are connected to ground through P1-4 such that each lamp will illuminate individually when pressed for testing. Pins 3 of all lamps are connected to P6-25 such that all lamps will illuminate when P6-25 is grounded. Each lamp illuminates to serve its indicator function when ground is provided at lamp pin 2.

B. Indicators L1 (F.O. PITOT) and L5 (F.O. STATIC NO. 2 AUX P/S), and L2 (CAPT STATIC NO. 1 AUX P/S) and L4 (CAPT PITOT) operate in a similar manner and only the L1 and L5 indicator circuits will be discussed (Fig. 2). With +28 volts dc applied to pin P1-18 and P1-32, pin P1-4 grounded, switch S2 ON, 115 volts ac applied to pin P1-14, and pin P1-15 grounded through an external resistance, printed circuit assembly A1 (A2 for L2 and L4) operates to illuminate indicator L1. After indicator L1 has illuminated, 115 volts ac is applied to pin P1-5 and pin P1-13 is grounded through an external resistance, printed circuit assembly A1 (A2 for L2) operates to illuminate indicator L5. Indicator L5 will not illuminate until L1 has been illuminated. Indicator L2 will not illuminate until L4 has been illuminated.

C. Indicators L3 (LEFT ELEV PITOT), L6 (RIGHT ELEV PITOT) and L16 (TEMP PROBE) operate in a similar manner and only the L3 indicator circuit will be discussed (Fig. 3). With +28 volts dc applied to pin P6-46, pin P1-4 grounded, switch S1 ON, 115 volts ac applied to pin P6-9 and pin P6-10 grounded through an external resistance, printed circuit assembly A2 (A2 for L16, A3 for L6) operates to illuminate indicator L3.

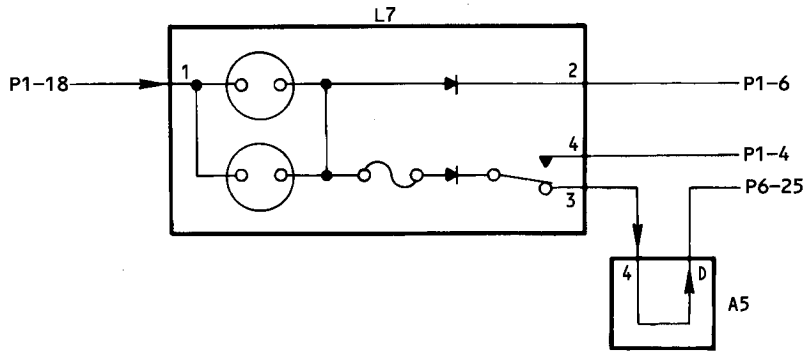


Indicators L1 and L5 Circuit Diagram
Figure 2



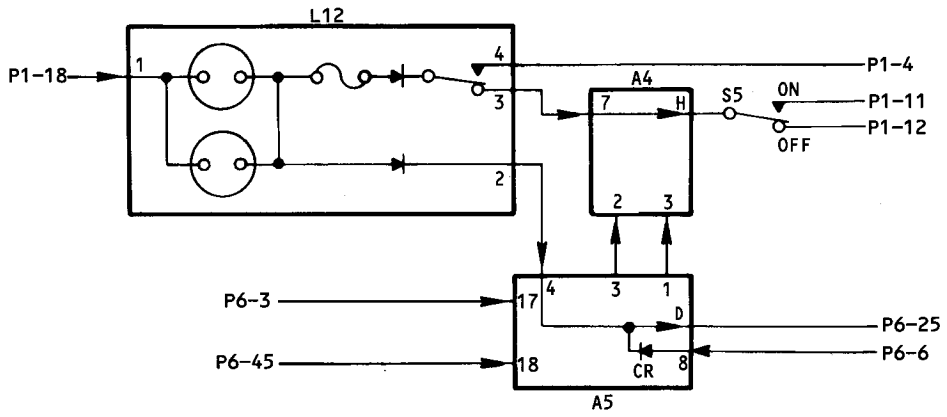
Indicator L3 Circuit Diagram
Figure 3

D. Indicators L7 (LEFT FRONT ON), L9 (LEFT SIDE ON), L11 (RIGHT SIDE ON), and L13 (RIGHT FRONT ON) have lamp pin 2 connected directly to external connector pins (P1-6, P6-5, P1-3, and P6-4 respectively). Each will illuminate when the listed connector pin is grounded (Fig. 4).



Indicator L7 Circuit Diagram
Figure 4

E. Indicators L8 (LEFT FRONT OVHT), L10 (LEFT SIDE OVHT), L12 (RIGHT SIDE OVHT), and L14 (RIGHT FRONT OVHT) operate in a similar manner and only the L12 indicator circuit will be discussed (Fig. 5). With +28 volts dc applied to pin P1-18, indicator L12 is illuminated if pin P1-12 is grounded and switch S5 is OFF or if pin P1-11 is grounded and switch S5 is ON. When indicator L12 is illuminated, printed circuit assemblies A4 (A3 for L8 and L10, A4 for L14) and A5 are activated to illuminate an external lamp connected at pin P6-3, provided +28 volts dc is present at pin P6-45.



Indicator L2 Circuit Diagram
Figure 5

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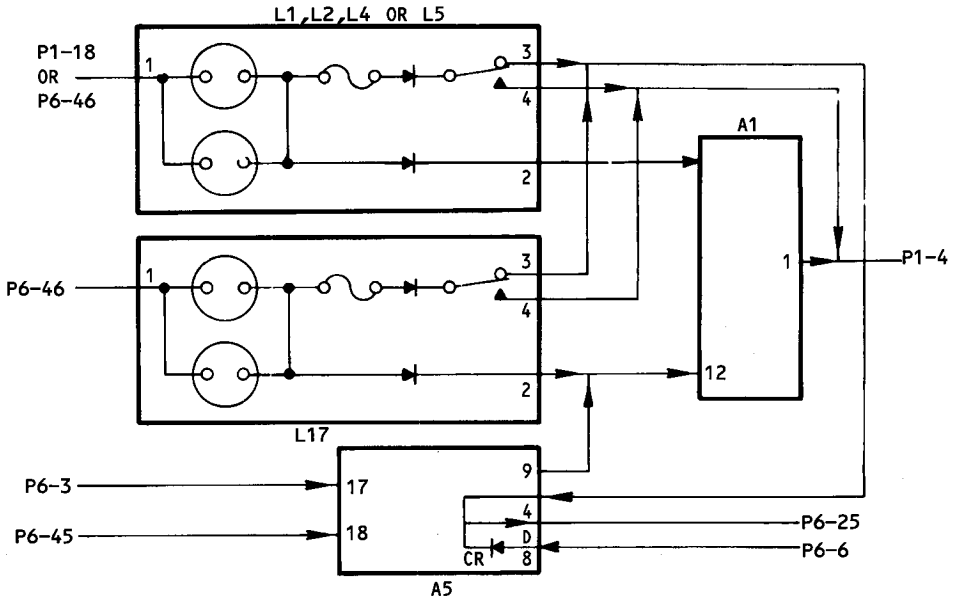
F. Indicator L17 (HEATER OFF) is illuminated unless all of indicators L1, L2, L4, and L5 have been illuminated (Fig. 6). With +28 volts dc applied to pin P6-46, pin P1-4 grounded, and any or all of indicators L1, L2, L4, and L5 extinguished, printed circuit assembly A1 operates to complete a ground path from L17 to pin P1-4 illuminating L17. When L17 is illuminated, a ground path is also completed for printed circuit assembly A5. Assembly A5 will then operate to illuminate an external lamp connected at pin P6-3, provided +28 volts dc is present at pin P6-45 and pin P6-25 is grounded. When all of indicators L1, L2, L4 and L5 are illuminated printed circuit assembly A1 opens the ground path from L17 and A5 to pin P1-4, extinguishing L17 and the external lamp.



Indicator L17 Circuit Diagram
Figure 6

1582778

4. Leading Particulars

Length -- 6.0 inches (approximately)
Width -- 7.0 inches (approximately)
Height -- 7.25 inches (approximately)
Weight -- 4.50 pound (approximately)
Operating Voltage -- 28 volts dc
115 volts dc, 400

REPAIR

1. All repair can be accomplished with standard industry practices and instructions contained in SOPM 20-11-04 or OHM 31-10-01 except as noted in the following paragraphs:

   A. If keying plugs (23, Fig. 1101) require replacement, insert in connectors in positions as shown in Fig. 401.

Figure 1101 Item No.	Reference Designator	Keying Plug Location
20	XA1	14
20	XA2	11
21	XA3, XA4	5
22	XA5	6

Connector Keying Plug Locations
Figure 401

TESTING

1. Test Equipment

   A. Power Supplies:

      (1) 115 volts ac, 400 Hz

      (2) 28 volts dc at 0.5 amp

   B. Volt-Ohm-Milliammeter, RCA WV-38A, or equivalent

   C. Test Setup, consisting of the following equipment

      (1) Switches, SPST, (S1 thru S19)

      (2) Test Lamp, 313 (General Electric Company, Semi-Conductor Products Dept., Electronics Park, Syracuse, New York 13201)

      (3) Resistors

         (a) 140 ohms ± 5%, 100 watts (R3, R4, R5)

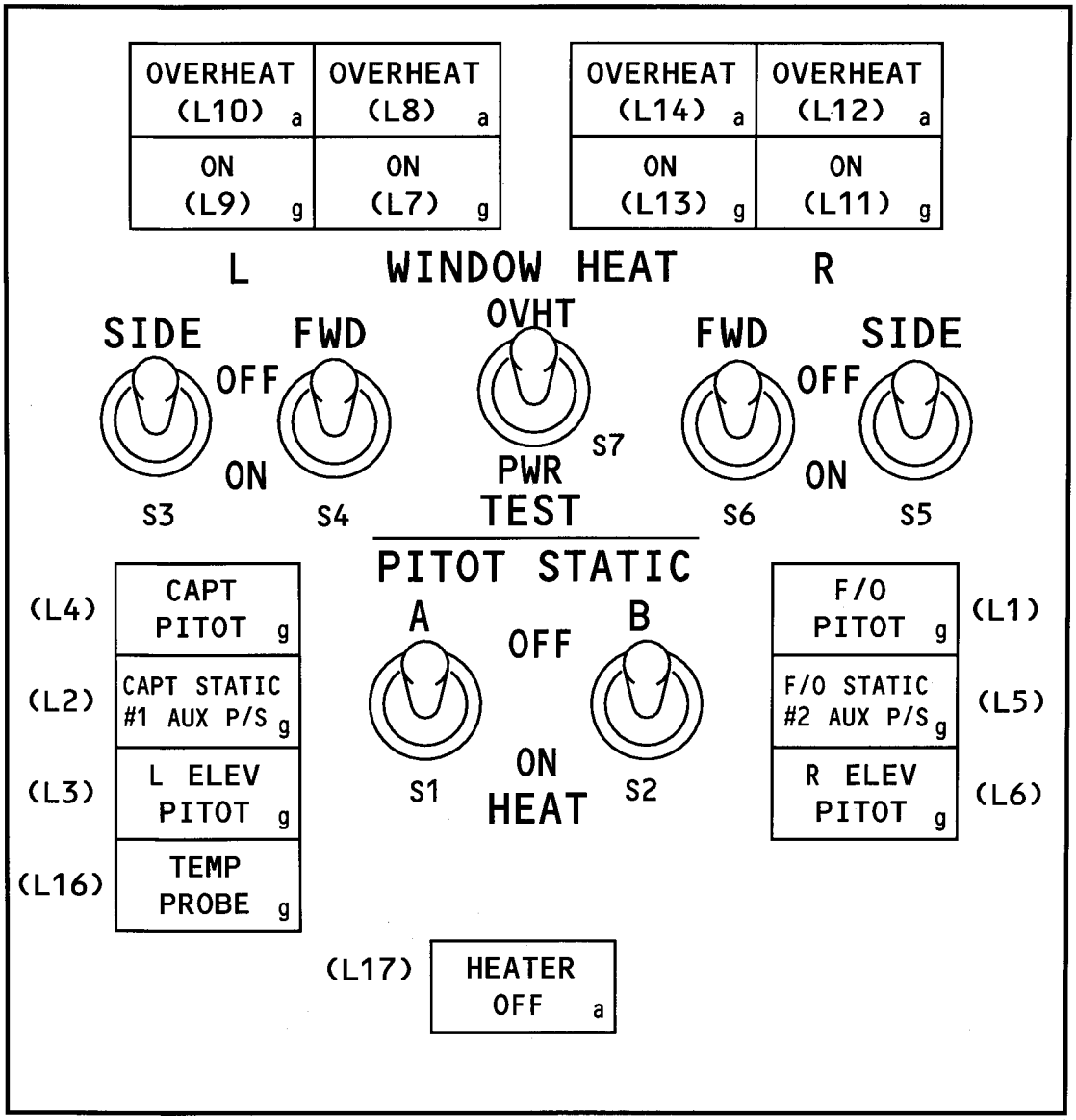
         (b) 70 ohms ± 5%, 200 watts (4 required)

      (4) Test Connectors (Boeing A33003-2 breakout box may be used along with the cable listed below.)

Test Connectors		A33003 Test Cable
BACC45FT22-55S6	(Connect with P1)	A33003-59
BACC45FT22-55S	(Connect with P6)	A33003-360

2. Function Test

   A. See Fig. 701 for the front panel component locations.



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WINDOW AND COMBINED PITOT STATIC HEAT MODULE ASSEMBLY, P5-9

Front Panel Component Locations
Figure 701

E11617

B. Verify electrical continuity per Fig. 702.

Component Tested	Module switch		Continuity	No Continuity
	Number	Position		
S5, and S6	S5	ON	P1-7 to P1-10, P1-8 to P1-9, P6-13 to P6-20	
	S5	OFF		P1-7 to P1-10, P1-8 to P1-9, P6-13 to P6-20
S5, and S6	S6	ON	P6-15 to P6-16, P6-14 to P6-17	
	S6	OFF		P6-15 to P6-16, P6-14 to P6-17
S3, and S4	S4	ON	P1-21 to P1-29, P1-20 to P1-30	
	S4	OFF		P1-21 to P1-29, P1-20 to P1-30
S3, and S4	S3	ON	P6-36 to P6-42, P6-37 to P6-41, P1-27 to P1-19	
	S3	OFF		P6-36 to P6-42, P6-37 to P6-41, P1-27 to P1-19
S7,	S7	POWER	P1-4 to P1-25, P1-4 to P1-26, P1-4 to P6-27, P1-4 to P6-28	
S7	S7	OVERHEAT	P1-4 to P1-23, P1-4 to P1-24, P1-4 to P6-21, P1-4 to P6-22	P1-4 to P1-25, P1-4 to P1-26, P1-4 to P6-27, P1-4 to P6-28
	S7	OFF		P1-4 to P1-23, P1-4 to P1-24, P1-4 to P6-21, P1-4 to P6-22
S1, and T2	S1	ON	*[1] P6-7 to P6-8 *[1] P6-9 to P6-10 *[1] P6-11 to P6-12 *[1] P6-29 to P6-44	

Continuity Check
Figure 702 (Sheet 1)

Component Tested	Module switch		Continuity	No Continuity
	Number	Position		
S1	S1	OFF		P6-7 to P6-8 P6-9 to P6-10 P6-11 to P6-12 P6-29 to P6-44
S2, and T1	S2	ON	*[1] P1-5 to P1-13 *[1] P1-14 to P1-15 *[1] P1-16 to P1-17	
S2	S2	OFF		P1-5 to P1-13 P1-14 to P1-15 P1-16 to P1-17
L15			P1-2 to lightplate center connector P1-1 to lightplate ground	

*[1] 5 ohms or less

Continuity Check
Figure 702 (Sheet 2)

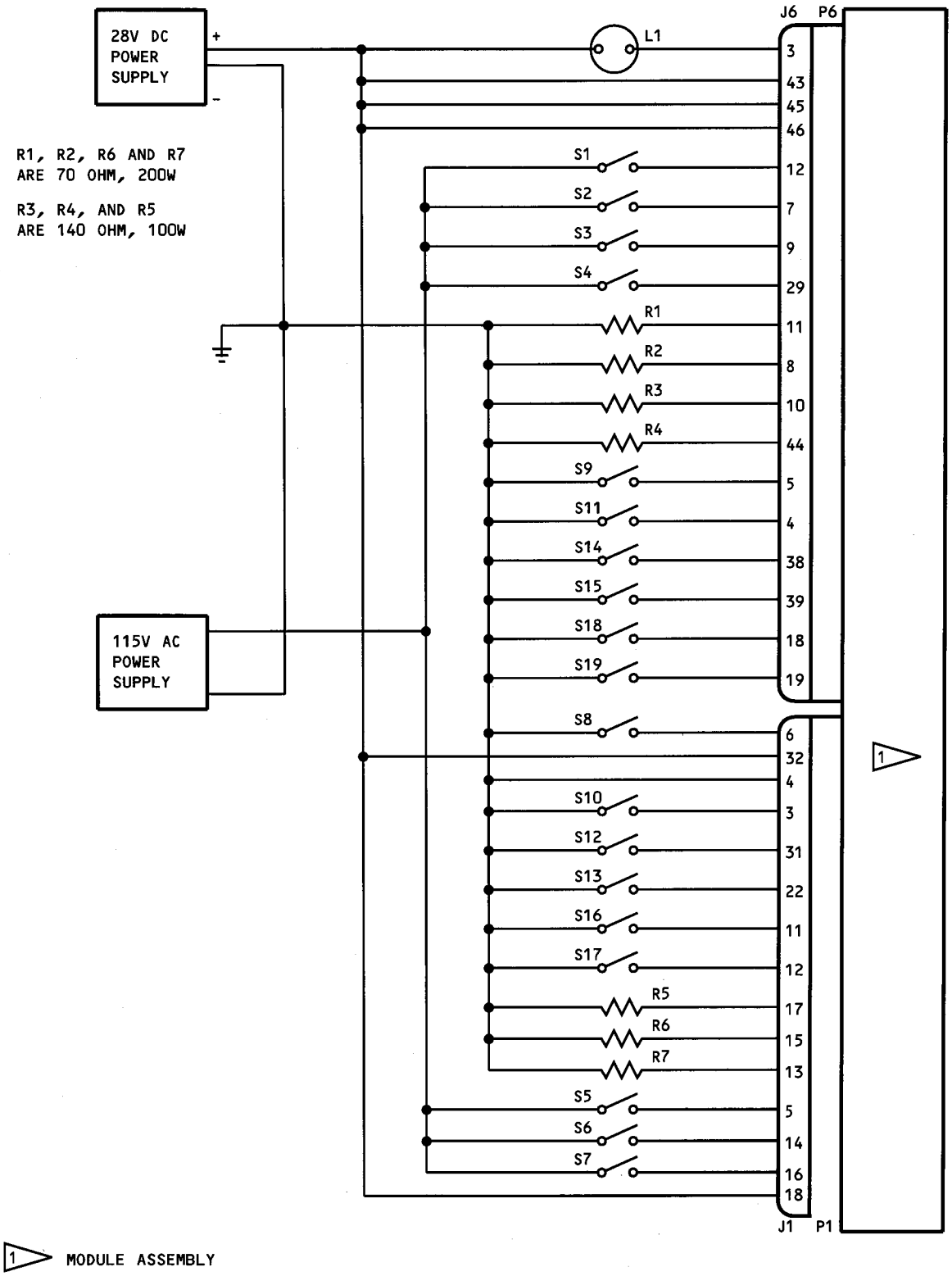
C. Connect P1-18 to 28 volts dc and P1-4 to ground.

D. Depress and release each module indicator. L1, L5 thru L8, L11, L12, and no others, shall illuminate while depressed.

E. Disconnect P1-18 and connect P6-46 to 28 volts dc. L17 shall illuminate.

F. Depress and release each module indicator. L2, L3, L4, L9, L10, L13, L14, L16, and no others, shall illuminate while depressed. L17 shall remain illuminated while depressed.

G. Connect P1-18 to 28 volts dc. Connect P6-25 to ground. All module indicators shall illuminate.



Test Setup, Window and Combined Pitot Static Heat Module Assembly (P5-9)
Figure 703

T55415

H. Perform steps and verify test results in sequence listed in Fig. 705.

Procedure	Test Results	Component Tested
Connect P1-4 to GND		
Connect +28V DC thru 28V DC, 170 ma lamp (L1) to P6-3	L1 off	A5
Connect P6-45 to +28V DC	L1 off	A5
Connect P6-6 to GDN	L1 on	A5
Momentarily disconnect L1 from P6-3	L1 off	A5

Test Procedure
Figure 705

I. Turn off power supplies and remove all test connections.

J. Connect test setup per Fig. 703 with all test and module switches set to OFF. Turn on power supplies. L17 and test lamp L1 will illuminate on all units for which L17 is applicable.

K. Starting with step A of Fig. 704 and continuing in sequence, verify the following test results. Any deviation constitutes a failure.

NOTE: Only those lamps whose condition change during a given step are listed. Lamps not listed shall remain at condition set in previous test step.

Test Step	Switches			Lamp Indications		
	Module	Test	Position	Module	Test	Conditions
A	Deleted	*[1]				
B	S1	S1,S2,S3,S4	ON	L2,L3,L4,L16		Illuminated
C	S1		OFF	L2,L3,L4,L16		Extinguished
D	S1		ON	L2,L3,L4,L16		Illuminated
E		S2	OFF	L2,L4		Extinguished
F		S2	ON	L2,L4		Illuminated
G		S1	0FF	L2		Extinguished
H		S3	OFF	L3		Extinguished
I		S4	OFF	L16		Extinguished
J		S5,S6,S7	ON			
K	S2		ON	L1,L5,L6		Illuminated
L	S2		OFF	L1,L5,L6		Extinguished
M	S2		ON	L1,L5,L6		Illuminated
N		S6	OFF	L1,L5		Extinguished
O		S6	ON	L1,L5		Illuminated
P		S5	OFF	L5		Extinguished
Q		S7	OFF	L6		Extinguished
R	S1,S2	S2,S6	OFF	L1,L4		Extinguished
S	*[2]					
T		S8	ON	L7		Illuminated
U		S8	OFF	L7		Extinguished
V		S9	ON	L9		Illuminated
W		S9	OFF	L9		Extinguished
X		S10	ON	L11		Illuminated
Y		S10	OFF	L11		Extinguished
Z		S11	ON	L13		Illuminated
AA		S11	OFF	L13		Extinguished
AB	S1,S2	S1,S2,S5,S6	ON	L1,L2,L4,L5		Illuminated
				L17	L1	Extinguished
AC	S4	S12	ON	L8	L1 *[3]	Illuminated
AD	S4		OFF	L8	L1	Extinguished
AE		S12	OFF			
AF		S13	ON	L8	L1 *[3]	Illuminated
AG	S4		ON	L8	L1	Extinguished
AH	S4	S13	OFF			
AI	S3	S14	ON	L10	L1 *[3]	Illuminated
AJ	S3	S14	OFF	L10	L1	Extinguished
AK		S15	ON	L10	L1 *[3]	Illuminated

Test Procedure
Figure 704 (Sheet 1)

Test Step	Switches			Lamp Indications		
	Module	Test	Position	Module	Test	Conditions
AL	S3		ON	L10	L1	Extinguished
AM		S15	OFF			
AN	S5	S16	ON	L12	*[3]L1	Illuminated
AO	S5		OFF	L12	L1	Extinguished
AP		S16	OFF			
AQ		S17	ON	L12	*[3]L1	Illuminated
AR	S5		ON	L12	L1	Extinguished
AS		S17	OFF			
AT	S6	S18	ON	L14	*[3]L1	Illuminated
AU	S6		OFF	L14	L1	Extinguished
AV		S18	OFF			
AW		S19	ON	L14	*[3]L1	Illuminated
AX	S6		ON	L14	L1	Extinguished

*[1] Deleted

*[2] 65C21465-8, -9, -10 :

NOTE: Disregard all other lamp conditions.

(a) Set module switches S1, S2, and test switches S1, S2, S5, S6 to ON. L17 and test lamp L1 must extinguish.

(b) Set each of test switches S1, S2, S5, S6 to OFF and back to ON. While each switch is at OFF, L17 and test lamp L1 must illuminate. When returned to ON, L17 and test lamp L1 must extinguish.

(c) Depress and release L17. L17 shall illuminate while depressed.

(d) Set module switches S1, S2, and test switches S1, S2, S5, S6 to OFF. L17 and test lamp L1 must illuminate.

(e) Return to Fig. 704, Step T.

*[3] 0.5 to 2.0 second time delay

Test Procedure
Figure 704 (Sheet 2)

K. Turn off power supplies and remove module assembly from test setup.

TROUBLE SHOOTING

1. If failure of a test occurs, check for defective connections or wiring before replacing components.

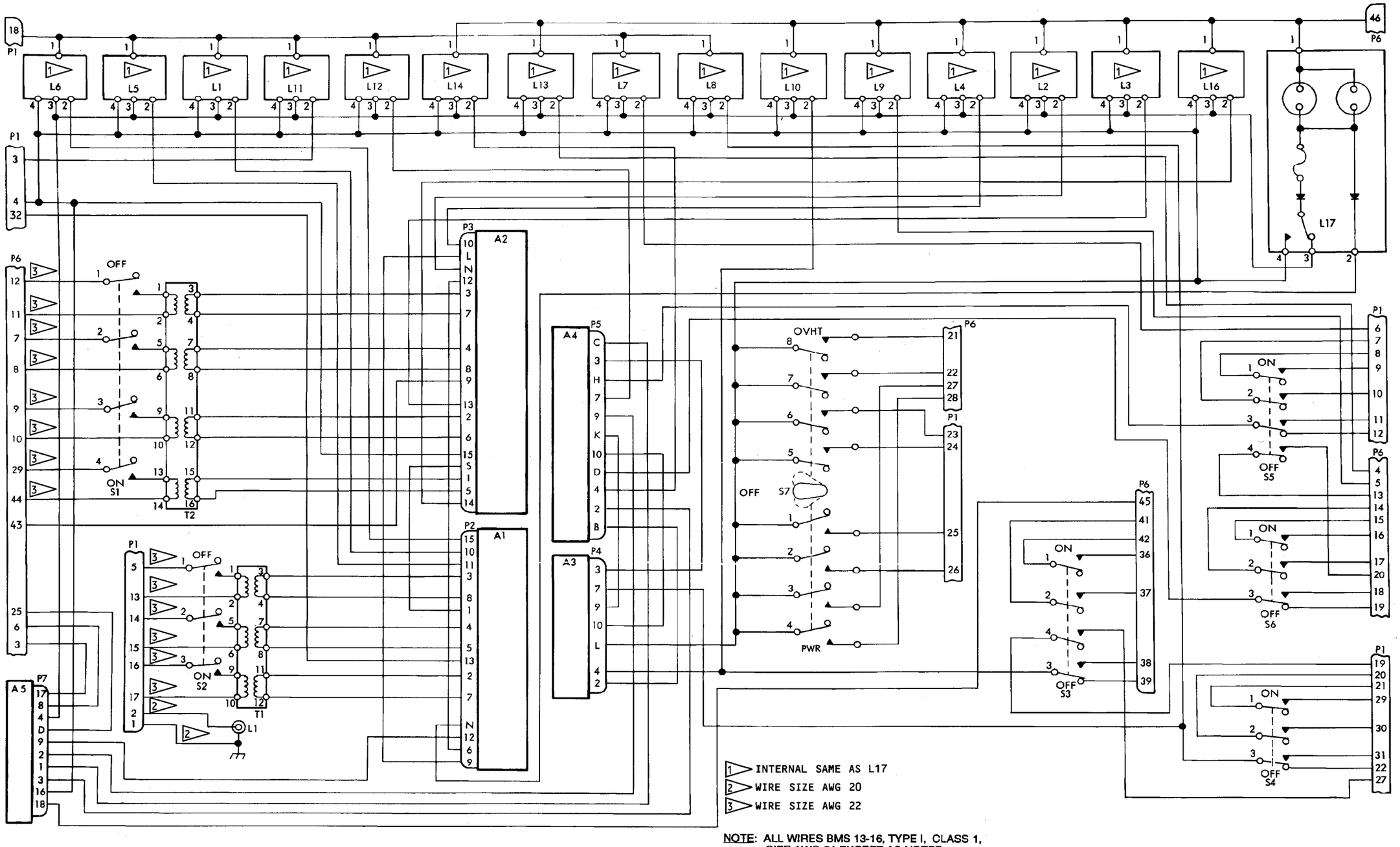
NOTE: Trouble shooting is keyed to steps of the functional test procedures.

	Trouble	Possible Cause	Correction
A.	Figure 702	Component as noted in test step	Replace defective component
B.	Paragraph 2.D.	L1, L5 through L8, L11, L12	Replace defective indicator
C.	Paragraph 2.F.	L2, L3, L4, L9, L10, L13, L14, L16, L17	Replace defective indicator
D.	Paragraph 2.G.	L1 through L14, L16, L17	Replace defective indicator
	Figure 704:		
E.	Step A	S1	Replace S1
F.	Step B	S1, T2, L2, L3, L4, L16, L17	Replace defective component
	Test lamp fails to illuminate	A5	Replace A5
	L2, L3, L4 or L16 fail to illuminate	A2	Replace A2
	L17 fails to illuminate	A1	Replace A1
G.	Step J	S2	Replace S2
H.	Step K	S2, T1, L1, L5, L6	Replace defective component
	Test lamp fails to illuminate	A5	Replace A5
	L1, L5, L6 or L17 fail to illuminate	A1	Replace A1

	Trouble	Possible Cause	Correction
I.	Step S	S1, S2, or L17	Replace defective component
	Test lamp fails to illuminate	A2 or A5	Replace A2 or A5
	L17 fails to illuminate	A1	Replace A1
J.	Step T	S1, S2, L7, or L17	Replace defective component
	L7 fails to illuminate	L7	Replace L7
	L17 fails to illuminate	A1	Replace A1
	Test lamp fails to illuminate	A2 or A5	Replace A2 or A5
K.	Step V	S1, S2, L9, or L17	Replace defective component
	L9 fails to illuminate	L9	Replace L9
	L17 fails to illuminate	A1	Replace A1
	Test lamp fails to illuminate	A2 or A5	Replace A2 or A5
L.	Step X	S1, S2, L11, or L17	Replace defective component
	L11 fails to illuminate	L11	Replace L11
	L17 fails to illuminate	A1	Replace A1
	Test lamp fails to illuminate	A2 or A5	Replace A2 or A5

	Trouble	Possible Cause	Correction
M.	Step Z	S1, S2, L13, or L17	Replace defective component
	L13 fails to illuminate	L13	Replace L13
	L17 fails to illuminate	A1	Replace A1
	Test lamp fails to illuminate	A2 or A5	Replace A2 or A5
N.	Step AB	S1, S2, or L17	Replace defective component
	L17 or test lamp fails to extinguish	A1, A2, or A5	Replace defective component
O.	Step AC	S1, S2, S4, or L8	Replace defective component
	L8 fails to illuminate	A3	Replace A3
	Test lamp fails to illuminate	A2 or A5	Replace A2 or A5
P.	Step AF	S4	Replace S4
Q.	Step AI	S1, S2, S3, or L10	Replace defective component
	L10 fails to illuminate	A3	Replace A3
	Test lamp fails to illuminate	A2 or A5	Replace A2 or A5
R.	Step AK	S3	Replace S3
S.	Step AN	S1, S2, S5, or L12	Replace defective component
	L12 fails to illuminate	A4	Replace A4
	Test lamp fails to illuminate	A2 or A5	Replace A2 or A5

	Trouble	Possible Cause	Correction
T.	Step AQ	S5	Replace S5
U.	Step AT	S1, S2, S6, or L14	Replace defective component
	L14 fails to illuminate	A4	Replace A4
	Test lamp fails to illuminate	A2 or A5	Replace A2 or A5
V.	Step AW	S6	Replace S6



NOTE: ALL WIRES BMS 13-16, TYPE I, CLASS 1, SIZE AWG 24 EXCEPT AS NOTED

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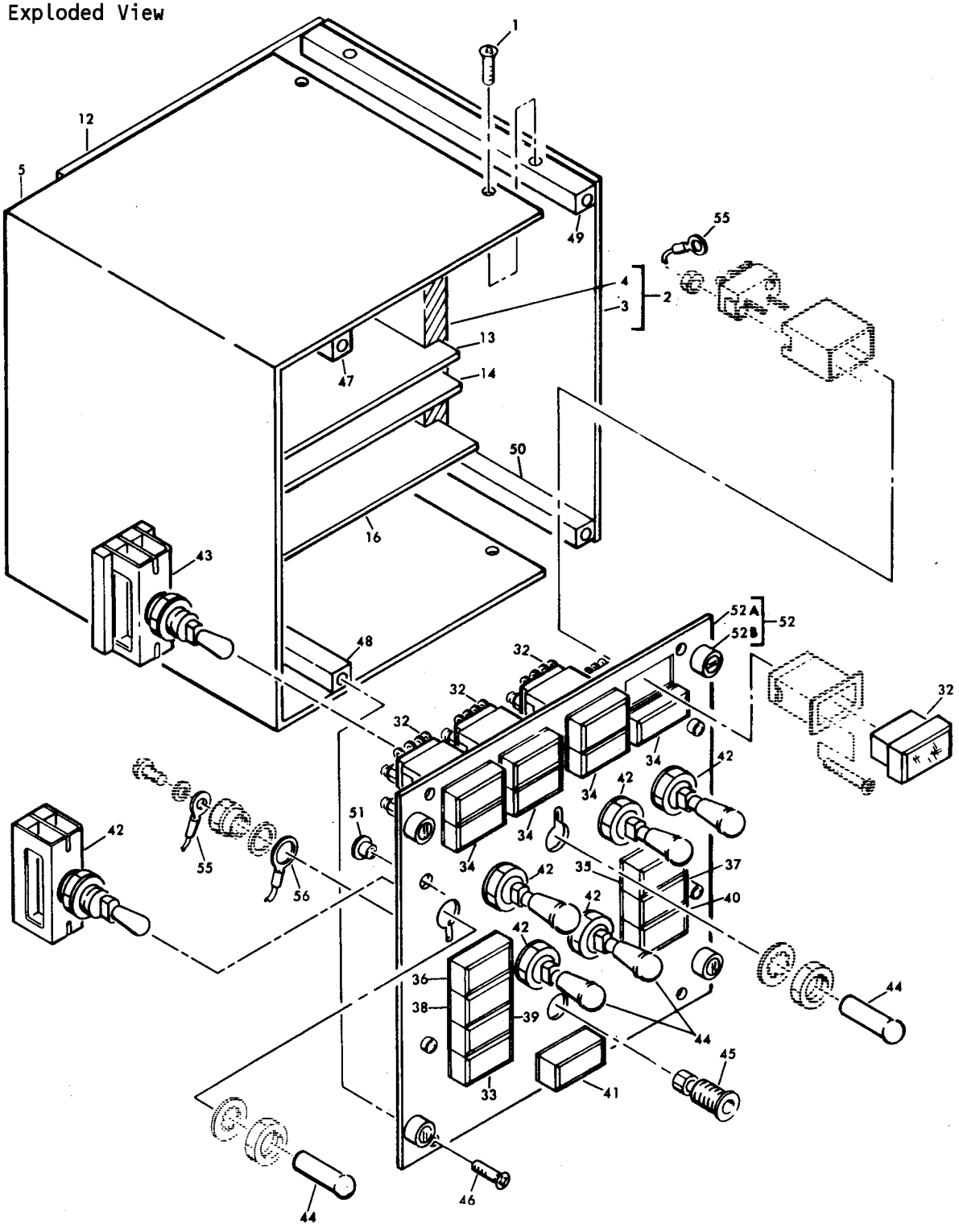
Schematic Diagram
Figure 801

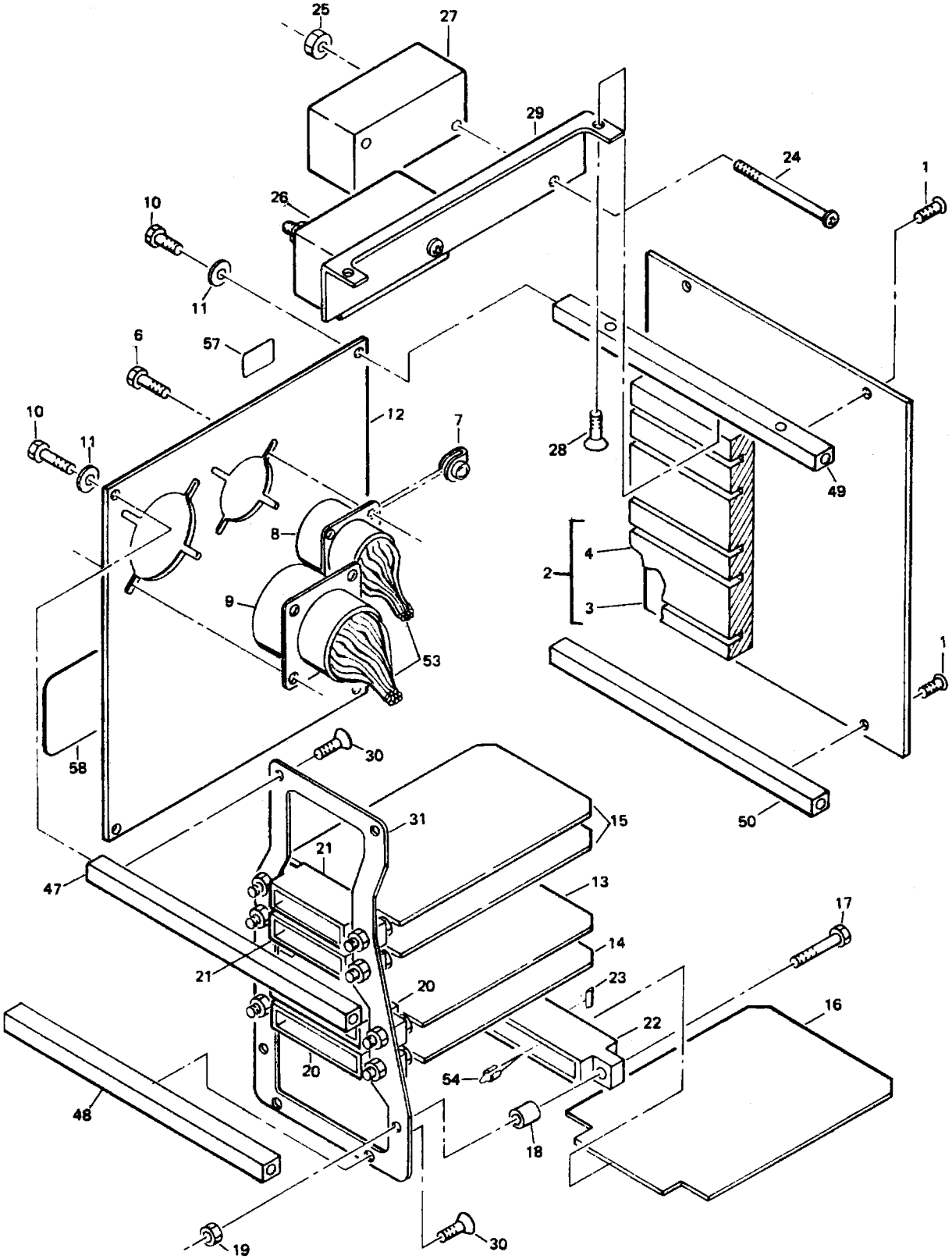
M54118

1. Exploded View



Window and Combined Pitot Static Heat Module Assembly (P5-9)
Figure 1101 (Sheet 1)

1580605



Window and Combined Pitot Static Heat Module Assembly (P5-9)
Figure 1101 (Sheet 2)

H76160

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101-					
	65C21465-8		WINDOW AND COMBINED PITOT STATIC HEAT MODULE ASSY (P5-9) (POST SB 30-1017)	A	
	65C21465-9		WINDOW AND COMBINED PITOT STATIC HEAT MODULE ASSY (P5-9) (POST SB 30-1017)	B	
	65C21465-10		WINDOW AND COMBINED PITOT STATIC HEAT MODULE ASSY (P5-9) (POST SB 30-1017)	C	
1	NAS514P440-4		. SCREW		8
2	69-51827-1		. COVER ASSY		1
3	69-51827-7		. . COVER		1
4	69-51827-9		. . FOAM		1
5	69-51827-2		. COVER		1
6	BACS12CB04-5		. SCREW		4
7	BACN10NW1		. CLIP NUT		4
8	BACC45FN22-55P6		. CONNECTOR		1
9	BACC45FN22-55P		. CONNECTOR		1
10	BACS12CB06-5		. SCREW		4
11	MS35337-41		. WASHER		4
12	69-51827-13		. BACKPLATE (PREF)		1
12	69-51827-11		. BACKPLATE (OPT)	AB	1
13	69-55153-3		. PRINTED CIRCUIT ASSY		1
14	69-55154-1		. PRINTED CIRCUIT ASSY		1
15	69-51812-1		. PRINTED CIRCUIT ASSY		2
16	69-51813-9		. PRINTED CIRCUIT ASSY		1
16	69-51813-3		. PRINTED CIRCUIT ASSY (OPT)	A	1
17	BACS12CB06-14		. SCREW		10
18	NAS43DD1-17		. SPACER		10
19	NAS679A06W		. NUT		10
20	582553-1		. CONNECTOR, V00779		2
21	582551-1		. CONNECTOR, V00779		2
22	582555-1		. CONNECTOR, V00779		1
23	582507-1		. KEYING PLUG, V00779		5
24	NAS623-2-17		. SCREW		4

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101-					
25	NAS679A08W		. NUT		4
26	69-71078-1		. TRANSFORMER		1
26	1-901		. TRANSFORMER, V08748 (OPT)		1
27	69-71078-2		. TRANSFORMER		1
27	1-966		. TRANSFORMER, V08748 (OPT)		1
28	BACS12CB04-4		. SCREW		2
29	69-43272-10		. ANGLE		1
30	BACS12CB04-4		. SCREW		4
31	69-51827-10		. SUPPORT		1
32	319-619-1001-005		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61305-9)		4
32	318-630-1001-005		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61803-9)	C	4
33	319-619-1001-031		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61305-44)	AB	1
34	319-619-1001-038		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61305-55)	AB	4
34	318-630-1001-038		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61803-55)	C	4
35	319-619-1001-118		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61305-146)	AB	1
35	318-630-1001-112		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61803-146)	C	1
36	319-619-1001-119		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61305-147)	AB	1
36	318-630-1001-113		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61803-147)	C	1
37	319-619-1001-120		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61305-148)	AB	1
37	318-630-1001-114		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61803-148)	C	1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101-					
38	319-619-1001-121		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61305-149)	AB	1
38	318-630-1001-115		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61305-149)	C	1
39	319-619-1001-122		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61305-150)	AB	1
39	318-630-1001-116		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61803-150)	C	1
40	319-619-1001-123		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61305-151)	AB	1
40	318-630-1001-117		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61803-151)	C	1
41	318-630-1001-121		. INDICATOR LIGHT ASSY, V81590 (BOEING 10-61803-156)		1
42	A3-127T7		. SWITCH, TOGGLE, V81640		6
42	64AT11-3		. SWITCH, V91929 (OPT)		6
43	68AT11-7		. SWITCH, V91929		1
43	BACS30ES44		. SWITCH, TOGGLE (OPT)		1
44	69-44578-2		. CAP, TOGGLE SWITCH		7
45	SCN001		. POWER CONNECTOR, V95354		1
46	NAS514P632-5		. SCREW		4
47	69-37346-7		. STANDOFF		1
48	69-37346-8		. STANDOFF		1
49	69-37346-9		. STANDOFF		1
50	69-37268-21		. STANDOFF		1
51	BACN10PA06-6		. NUT, PRESS		4
52	69-37346-5		. BASEPLATE ASSY (SB 30-1017)		1
52A	BACP10U0600G		. . BASEPLATE		1
52B	BACS21DD1		. . STUD ASSY		4
53	69-37346-15		. WIRE BUNDLE ASSY (SB 30-1017)		1
54	66143-2		. TAB TERMINAL, V00779		AR
55	BACT12AC		. TERMINAL LUG		AR
56	BACT12S		. TERMINAL LUG		AR
57	BACM10L001CU		. MARKER		1
58	BAC27DCC279		. MARKER		1

REFERENCE DESIGNATION INDEX (SEE SCHEMATIC DIAGRAM)		
REFERENCE DESIGNATION	PART NUMBER	ITEM NO.
A1	69-55153-3	13
A1, A2	69-55154-1	14
A3, A4	69-51812-1	15
A5	69-51813-9	16
A5	69-51813-3	16
L1	318-630-1001-112	35
L1	319-619-1001-118	35
L2	319-619-1001-115	38
L2	319-619-1001-121	38
L3	318-630-1001-116	39
L3	319-619-1001-122	39
L4	318-630-1001-113	36
L4	319-619-1001-119	36
L5	318-630-1001-114	37
L5	319-619-1001-120	37
L6	318-630-1001-117	40
L6	319-619-1001-123	40
L7, L9, L11, L13	318-630-1001-038	34
L7, L9, L11, L13	319-619-1001-038	34
L8, L10, L12, L14	318-630-1001-005	32
L8, L10, L12, L14	319-619-1001-005	32
L15	SCN001	45

REFERENCE DESIGNATION INDEX (SEE SCHEMATIC DIAGRAM)		
REFERENCE DESIGNATION	PART NUMBER	ITEM NO.
L16	319-619-1001-031	33
L17	318-630-1001-121	41
P1	BACC45FN22-55P6	8
P2, P3	582553-1	20
P4, P5	582551-1	21
P6	BACC45FN22-55P	9
P7	582555-1	22
S1 THRU S6	A3-127T7	42
S1 THRU S6	64AT11-3	42
S7	68AT11-7	43
S7	BACS30ES4	43
T1	1-901	26
T1, T2	1-966	27
XA1, XA2	582553-1	20
XA3, XA4	582551-1	21
XA5	582555-1	22

VENDORS

V00779	TYCO ELECTRONICS CORP., 2800 FULLING MILL RD., BLDG-38, MIDDLETOWN, PENNSYLVANIA 17057-3142
V08748	ELDEC CORP., 16700 13TH PLACE W., P.O. BOX 100, LYNNWOOD, WASHINGTON 98037-8503
V81590	KORRY ELECTRONIC CO., 901 DEXTER AVE. N., SEATTLE, WASHINGTON 98109-3515
V81640	EATON CORP., DBA FLUID POWER DIV., 2250 WHITFIELD AVE., SARASOTA, FLORIDA 34243-3926
V91929	HONEYWELL INTERNATIONAL, INC., 11 W. SPRING ST., FREEPORT, ILLINOIS 61032-4316
V95354	METHODE ELECTRONICS, INC., DBA NETWORK BUSINESS PRODUCTS, 4001 INDUSTRIAL AVE., ROLLING MEADOWS, ILLINOIS 60008-1025