



# **COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST**

## **FLIGHT RECORDER AND MACH AIRSPEED TEST MODULE ASSEMBLY, P5-19**

### **PART NUMBER**

**69-37325-111, -112, -113, -114, -115, -116, -117,  
-118, -119, -120, -121, -122, -123, -125, -126, -127,  
-128, -129, -130, -131, 69-78547-2**

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## COMPONENT MAINTENANCE MANUAL

Revision No. 23  
Jul 01/2009

To: All holders of FLIGHT RECORDER AND MACH AIRSPEED TEST MODULE ASSEMBLY, P5-19 31-36-98.

Attached is the current revision to this COMPONENT MAINTENANCE MANUAL

The COMPONENT MAINTENANCE MANUAL is furnished either as a printed manual, on microfilm, or digital products, or any combination of the three. This revision replaces all previous microfilm cartridges or digital products. All microfilm and digital products are reissued with all obsolete data deleted and all updated pages added.

For printed manuals, changes are indicated on the List of Effective Pages (LEP). The pages which are revised will be identified on the LEP by an R (Revised), A (Added), O (Overflow, i.e. changes to the document structure and/or page layout), or D (Deleted). Each page in the LEP is identified by Chapter-Section-Subject number, page number and page date.

Pages replaced or made obsolete by this revision should be removed and destroyed.

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## COMPONENT MAINTENANCE MANUAL

Location of Change

Description of Change

NO HIGHLIGHTS

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## COMPONENT MAINTENANCE MANUAL

### TEMPORARY REVISION AND SERVICE BULLETIN RECORD

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVE	DATE OF INCORPORATION INTO MANUAL
		PRR 34508	DEC 05/88
		PRR 34508-1	DEC 05/88
		PRR 34197	DEC 05/88
69-37325-31-03	31-15		MAR 05/91
		PRR 34766	JUN 05/91
69-37325-31-02		PRR 34766R	JUN 05/92

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TR AND SB RECORD

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### COMPONENT MAINTENANCE MANUAL

All revisions to this manual will be accompanied by transmittal sheet bearing the revision number. Enter the revision number in numerical order, together with the revision date, the date filed and the initials of the person filing.

Revision		Filed		Revision		Filed	
Number	Date	Date	Initials	Number	Date	Date	Initials

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REVISION RECORD

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Revision		Filed		Revision		Filed	
Number	Date	Date	Initials	Number	Date	Date	Initials

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REVISION RECORD

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All temporary revisions to this manual will be accompanied by a cover sheet bearing the temporary revision number. Enter the temporary revision number in numerical order, together with the temporary revision date, the date the temporary revision is inserted and the initials of the person filing.  
When the temporary revision is incorporated or cancelled, and the pages are removed, enter the date the pages are removed and the initials of the person who removed the temporary revision.

Temporary Revision		Inserted		Removed		Temporary Revision		Inserted		Removed	
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## COMPONENT MAINTENANCE MANUAL

### INTRODUCTION

#### 1. General

- A. The instructions in this manual supply the data necessary to do the maintenance functions together with the test, fault isolation, repair, and replacement of the defective parts.
- B. This manual is divided into different parts:
  - (1) Title Page
  - (2) Transmittal Letter
  - (3) Highlights
  - (4) List of Effective Pages
  - (5) Table of Contents
  - (6) Temporary Revision & Service Bulletin Record
  - (7) Record of Revisions
  - (8) Record of Temporary Revisions
  - (9) Introduction
  - (10) Procedures & IPL Sections
- C. Refer to the Table of Contents for the page location of the applicable procedures.
- D. All dimensions, measures, quantities and weights included are in English units. When metric equivalents are given they will be in the parentheses that follow the English units.
- E. The introduction to the Illustrated Parts List (IPL) shows how the IPL data is used.
- F. Design changes, optional parts, configuration differences and Service Bulletin modifications may cause different part numbers. These part numbers are identified in the IPL with an alphabetical letter which is added to the end of the basic item number. This new item number is referred to as an alpha-variant. Throughout the manual, IPL basic item number references also apply to alpha-variants unless shown differently.
- G. Verification:

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INTRODUCTION

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## COMPONENT MAINTENANCE MANUAL

### FLIGHT RECORDER AND MACH AIRSPEED TEST MODULE ASSEMBLY P5-19 - DESCRIPTION AND OPERATION

#### 1. Description

- A. The flight recorder and mach airspeed warning test module assembly has quick-release fasteners on the baseplate and rear-mounted receptacle. The module contains switches, indicator lamp (some models) and electronic components in the flight recorder, mach airspeed warning, and master caution indicator systems.

#### 2. Operation

##### A. Functional Description

- (1) The primary part of the flight recorder and mach airspeed warning test module assembly is a power and ground sensing printed circuit assembly, A1, P/N 69-51810-( ) (Ref 31-36-74). The PCA P/N 69-51810-( ) supplies a ground path for the master caution circuit when it finds a power or ground signal at its input.
- (a) Printed circuit assembly A1 operates as a power and ground seeking sensor, and provides a ground path for the master caution indicator at pin 30 (XA1-17 or P2-17). Ground inputs at any one of pins 2 (pin 31 for assemblies 69-37325-121, -126, 129, -131), 20, 22, 24, 26 or 27; positive inputs at either pin 8 or 28; or a combined ground input at pins 1 and 21, will actuate the master caution indicator. After triggering, the circuit may be reset to extinguish the master caution indication and retriggered to recall the indication if the original triggering input remains.
- (b) Circuit ground is connected to pin 23 (XA1-7 or P2-7). Circuit power for the master caution triggering circuitry is connected to pin 29 (XA1-22 or P2-22).
- (c) A1Q3 provides a ground path at XA1-13 (P2-13) to energize relay K1, when turned on by a positive input at pin 7 (XA1-21 or P2-21) unless that input is shunted to ground at pin XA1-12 (P2-12), XA1-19 (P2-19), or XA1-20 (P2-20).
- (d) Pin 22 receives a ground input from Master Test. Pin 25 receives the RECALL input (ground to retrigger to master caution indication).
- (e) (69-37325-116) Printed circuit assembly A2 (69-71571-3 Ref 33-10-06) is a 2-second time delay and power seeking circuit. With a power signal at pin 31 (P3-4), card A2 supplies a ground input at XA1-1 and a 2-second delay ground input at XA1-2 to operate the master caution indicator.
- (f) (69-37325-115) Card A2 supplies inputs at pins 9 and 10 which are like the one at pin 2. They operate as written in par. (1).
- (g) (69-37325-118, -120, -122, -123) Card A2 supplies input at pin 31 which is like the one at pin 2. It operates as written in par. (1).

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## COMPONENT MAINTENANCE MANUAL

### TESTING AND FAULT ISOLATION

#### 1. Test Equipment

**NOTE:** Equivalent substitute may be used.

- A. Power supply: 28 ± 2 volts dc, 1 ampere
- B. Multimeter: model 260 simpson voltmeter, STD-3946
- C. Connector: Test Connector, SPL-5367, with pigtail leads
- D. Switch: SPDT
- E. Switch: SPST switch, STD-4657
  - 13 required, 69-37325-112, -113, -114, -122, -125, -127, -128, -130;
  - 14 required, 69-37325-115, -118, -120, -121, -123, 126, -129, -131, 69-78547-2;
  - 16 required, 69-37325-116.
- F. Capacitor: 1 $\mu$ f, 35 volts
- G. Resistor: 330 ohms ± 5%, 1/2 w
- H. Diode: 1N4385
  - I. Lamp load (L3): 420 to 460 mA, 28v dc (GE 1819 and two 1873 lamps in parallel, or equivalent)
- J. Lamp load (L1): 100 mA max, 28v dc (two GE 387 lamps in parallel, or equivalent; for 69-37325-111, -115)
- K. Test Preparation
  - (1) Connect test connector with module connector.
  - (2) Identify and tag pigtail leads.
- L. Functional Test
  - (1) (69-37325-112, -113, -114, -116 thru -123, -125 thru -131). Measure forward resistance of CR1 diode across terminal E2 (+) and E1 (-). Make sure that this resistance is less than 15 ohms.
  - (2) (69-37325-121, -123, -126, -129, -131) Measure forward resistance of CR2 diode across terminal E3 (+) and E4 (-). Measure forward resistance of CR3 diode across terminal E5 (+) and E6 (-). Make sure that these resistances are less than 15 ohms.
  - (3) Do diode resistance test as specified in TESTING AND FAULT ISOLATION, Table 101.

**Table 101: Diode Resistance Test**

Measure Between Pins	15 ohms max with + at Pin	50k min with + at Pin	Component Examined
23 to 9 <sup>*[1]</sup>	23	9	A2CR2
23 to 10 <sup>*[1]</sup>	23	10	A2CR5
23 to 31 <sup>*[2]</sup>	23	31	A2CR2
14 to 5 <sup>*[3]</sup>	14	5	A1CR21
14 to 18 <sup>*[3]</sup>	14	18	A1CR20
23 to 5 <sup>*[4]</sup>	<sup>*[5]</sup> 23	5	A1CR21
23 to 18 <sup>*[4]</sup>	<sup>*[5]</sup> 23	18	A1CR20

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**Table 101:** Diode Resistance Test (Continued)

\*[1] 69-37325-115

\*[2] 69-37325-118, -120, -122, -123

\*[3] 69-37325-111, -115, 69-78547-2

\*[4] 69-37325-112 thru -114, -116 thru -123, -125 thru -131

\*[5] Put module switch S2 to TEST position

- (4) Do switch test as given in TESTING AND FAULT ISOLATION, Table 102.

**NOTE:** "Con" means that resistance must be less than 3 ohms. "No Con" means that circuit is open (infinite resistance).

**Table 102:** Switch Test

Procedure	Necessary Results		Component Examined
69-37325-111, -112, -114, -115, -128; 69-78547-2			
16 to 15	Pushed Con	Released No Con	S1
16 to 17	No Con	Con	S1
69-37325-113, -116 thru -123, -125, -126, -127, -129 thru -131			
3 to 6	No Con	Con	S1 (NO 2)
4 to 6	Con	No Con	S1 (NO 2)
16 to 15	Con	No Con	S3 (NO 1)
16 to 17	No Con	Con	S3 (NO 1)
69-37325-115, 69-78547-2			
4 to 6	Con	No Con	S3
3 to 6	No Con	Con	S3

- (5) Functional Test

- (a) Connect test setup per TESTING AND FAULT ISOLATION, Figure 101. Set all switches to OFF. Turn ON power supply.
- (b) Set switches and monitor indications as specified in TESTING AND FAULT ISOLATION, Table 103. Test lamps shall come on only when specified. Leave all switches in last specified positions. Normally, only active components are given; however, you should also examine the related passive components and wiring to find defective components.

**Table 103:** Functional Test

Procedure			Necessary Results			Component Examined
Step	Switch No.	Pos	Test Lamp Indications		V	
			ON	OFF		
1	1 and 2	ON				A1(CR12, U5B, U3, U1, CR19, U2, U4A, U4C, Q2)
2	3	ON	L3			

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**Table 103: Functional Test (Continued)**

Procedure			Necessary Results			Component Examined
Step	Switch No.	Pos	Test Lamp Indications		V	
			ON	OFF		
3	3	OFF		L3		A1(CR12, U5B, U3, U1, U2, U4A, U4C, Q2, CR19)
4	4	ON	L3			A1(U6B, U3, U1, U2, CR19, U4A, U4C, Q2, CR14)
5	4	OFF		L3		A1(U6B, U3, U1, U2, U4A, U4C, Q2, CR4, CR19)
6	5	ON	L3			A1(CR9, U5D, U3, U1, U2, U4A, U4C, Q2, CR19)
7	5	OFF		L3		A1(CR9, U5D, U3, U1, U2, U4A, U4C, Q2, CR19)
8	6	ON	L3			A1(CR11, U6A, U3, U1, U2, U4A, U4C, Q2, CR19)
9	6	OFF		L3		A1(CR11, U6A, U3, U1, U2, U4A, U4C, Q2, CR19)
10	7	ON	L3			A1(CR13, U5B, U3, U1, U2, U4A, U4C, Q2, CR19)
11	7	OFF		L3		A1(CR13, U5B, U3, U1, U2, U4A, U4C, Q2, CR19)
12	8	ON	L3			A1(CR10, U5C, U3, U1, U2, U4A, U4C, Q2, CR19)
13	8	OFF		L3		A1(CR10, U5C, U3, U1, U2, U4A, U4C, Q2, CR19)
14	12	ON	L3			A1(CR16, U7B, U3, U1, U2, U4A, U4C, Q2, CR19)
15	12	OFF		L3		A1(CR16, U7B, U3, U1, U2, U4A, U4C, Q2, CR19)
16	13	ON	L3			A1(CR15, U6C, U3, U1, U2, U4A, U4C, Q2, CR19)
17	13	OFF		L3		A1(CR15, U6C, U3, U1, U2, U4A, U4C, Q2, CR19)
18	4 thru 7, 12,13	ON	L3			A1(CR9-CR11, CR13-CR16, U5, U6, U7, U3, U1, U2, Q2, CR19)
19	2	OFF		L3		
20	2	ON		L3		
21	8 <sup>*[1]</sup>	ON	L3			A1(CR10, U5C, U3, U1, U2, U4A, U4C, Q2, CR19)
22	2 <sup>*[1]</sup>	OFF		L3		A1(U7, U2A)

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**Table 103: Functional Test (Continued)**

Procedure			Necessary Results			Component Examined
Step	Switch No.	Pos	Test Lamp Indications		V	
			ON	OFF		
23	2 <sup>*[1]</sup>	ON		L3		A1(CR13, U5B, U3, U1, U2, U4A, U4C, Q2, CR19) A1(U7, U2A) A1(CR11, U6A, U3, U1, U2, U4A, U4C, Q2, CR19) A1(U7, U2A) A1(CR9, U5D, U3, U1, U2, U4A, U4C, Q2, CR19) A1(U7, U2A) A1(U6B, U3, U1, U2, U4A, U4C, Q2, CR4, CR19) A1(U7, U2A) A1(U7, U2A) A1(U7, U2A) A1(U7, U2A) A1(U7, U2A) A1(CR16, U7B, U3, U1, U2, U4A, U4C, Q2, CR19) A1(U7, U2A) A1(CR9-CR11, CR13-CR16, U5-U7, U1-U3, Q2, CR19)
24	7	OFF		L3		
25	7	ON	L3			
26	2	OFF		L3		
27	2	ON		L3		
28	6	OFF		L3		
29	6	ON	L3			
30	2	OFF		L3		
31	2	ON		L3		
32	5	OFF		L3		
33	5	ON	L3			
34	2	OFF		L3		
35	2	ON		L3		
36	4	OFF		L3		
37	4	ON	L3			
38	2	OFF		L3		
39	2	ON		L3		
40	12	OFF		L3		
41	12	ON	L3			
42	2	OFF		L3		
43	2	ON		L3		
44	13	OFF		L3		
45	13	ON	L3			
46	4 thru 8,13	OFF	L3			
47	12	OFF		L3		
47A	2	OFF		L3		
47B	2	ON		L3		

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## COMPONENT MAINTENANCE MANUAL

**Table 103: Functional Test (Continued)**

Procedure			Necessary Results			Component Examined	
Step	Switch No.	Pos	Test Lamp Indications		V		
			ON	OFF			
48	15	ON		L3 <sup>[2]</sup>	18 ± 3V <sup>[3]</sup>	A1(CR7, U6D, U3, U4A, U4C, Q2, CR19)	
49	14	ON	L3		18 ± 3V <sup>[3]</sup>	A1(U7A, U5C, U1, U2, U4A, U4C, Q2, CR19)	
50	2,14 and 15	OFF		L3	18 ± 3V <sup>[3]</sup>	A1(CR7, U6D, U5C, U7A, U1, U2, U4C, U4A, Q2, CR19)	
69-37325-111, -115, 69-78547-2							
51	16	ON	L1			A1Q3	
52	17	ON		L1		A1Q3	
53	16 and 17	OFF		L1		A1Q3	
69-37325-115, 69-78547-2							
54	2	ON			18 ± 3V	A2(CR6, CR5) A1(U7, U6, U4, U3, U2, U1, Q2) A2(CR6, CR5) A1(U7, U6, U4, U3, U2, U1, Q2) A2(CR1, CR3) A1(U7, U6, U4, U3, U2, U1, Q2) A2(CR1, CR3) A1(U7, U6, U4, U3, U2, U1, Q2) A2(CR6, CR5) A1(U7, U6, U4, U3, U2, U1, Q2) A2(CR1, CR3) A1(U7, U6, U4, U3, U2, U1, Q2) A2(CR1, CR3) A1(U7, U6, U4, U3, U2, U1, Q2)	
55	18 <sup>[4]</sup>	ON	L3				
56	18 <sup>[4]</sup>	OFF		L3			
57	19	ON	L3				
58	19	OFF		L3			
59	18 <sup>[4]</sup>	ON	L3				
60	2	OFF		L3			
61	2	ON		L3			
62	19	ON	L3				
63	2	OFF		L3			
64	2	ON		L3			
69-37325-112, -113, -114, -116, -118, -120, -121, -123, -125 thru -131							
65	8,17	ON	L1 <sup>[5]</sup>				L1 <sup>[6]</sup>
66	8	OFF		L1 <sup>[5]</sup>			L1 <sup>[6]</sup>
67	3	ON	L1 <sup>[5]</sup>			L1 <sup>[6]</sup>	
68	3	OFF		L1 <sup>[5]</sup>		L1 <sup>[6]</sup>	
69	L1	DEPRESS	L1 <sup>[5]</sup>			L1 <sup>[6]</sup>	

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## COMPONENT MAINTENANCE MANUAL

**Table 103: Functional Test (Continued)**

Procedure			Necessary Results			Component Examined
Step	Switch No.	Pos	Test Lamp Indications		V	
			ON	OFF		
70	17	OFF		L1 <sup>*[5]</sup>		L1 <sup>*[6]</sup>
69-37325-112 thru -114, -116 thru -123, -125 thru -131						
71	Measure resistance between the following pins: 10 and 11 10 and 9 <sup>*[7]</sup> 13 and 14 13 and 12		Con	No Con		K1 K1 K1 K1
72	Set S16 to ON. Measure resistance between the following pins: 10 and 11 10 and 9 <sup>*[7]</sup> 13 and 14 13 and 12		Con	No Con		K1, A1Q3 K1, A1Q3 K1, A1Q3 K1, A1Q3
73	Set S2 (FLIGHT RE-CORDER TEST) to TEST position. Measure resistance between the following pins: 10 and 11 13 and 14 10 and 9 <sup>*[7]</sup> 13 and 12		Con Con	No Con No Con		S2, K1, A1 S2, K1, A1 S2, K1, A1 S2, K1, A1
69-37325-116						
74	16	OFF				
75	2	ON				
75	18	ON	L3 <sup>*[8]</sup>			A1(U6D, U7A, U5C, U3, U2, U1, Q2, CR19) A2
76	18	OFF		L3		A1(U6D, U7A, U5C, U3, U2, U1, Q2, CR19) A2

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## COMPONENT MAINTENANCE MANUAL

**Table 103: Functional Test (Continued)**

Procedure			Necessary Results			Component Examined
Step	Switch No.	Pos	Test Lamp Indications		V	
			ON	OFF		
77	15	ON	L3 <sup>[8]</sup>			A1(U6D, U7A, U5C, U3, U2, U1, Q2, CR19) A2
78	2	OFF		L3		A1(U6D, U7A, U5C, U3, U2, U1, Q2, CR19) A2
79	2	ON		L3		
69-37325-18, -120, -122, -123						
80	16	OFF				
	2	ON				
81	18	ON	L3			A1(U6D, U7A, U5C, U3, U2, U1, Q2) A2(CR1, CR3)
82	18	OFF		L3		A1(U6D, U7A, U5C, U3, U2, U1, Q2) A2(CR1, CR3)
83	18	ON	L3			A1(U6D, U7A, U5C, U3, U2, U1, Q2, CR19) A2
84	2	OFF		L3		
85	2	ON		L3		
69-37325-121, -126, -129, -131						
86	2	ON		L3		
87	18	ON	L3			A1(CR11, U6A, U3, U1, U2, U4A, U4C, Q2, CR19)
88	18	OFF		L3		A1(CR1, U6A, U3, U1, U2, U4A, U4C, Q2, CR19)
89	8	ON	L3			A1(CR10, U5C, U3, U4, U2, U1, Q2, CR2)
90	6	ON	L3			A1(CR10, U5C, U3, U1, U2, U4A, U4C, Q2, CR3)
91	8	OFF	L3			A1(CR10, U5C, U3, U1, U2, U4A, U4C, Q2, CR2)
92	6	OFF		L3		A1(CR10, U5C, U3, U1, U2, U4A, U4C, Q2, CR3)
93	2	OFF		L3		

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**COMPONENT MAINTENANCE MANUAL**

**Table 103: Functional Test (Continued)**

Procedure			Necessary Results			Component Examined
Step	Switch No.	Pos	Test Lamp Indications		V	
			ON	OFF		
94	1	OFF		L3		
95	Remove all connections.					

\*[1] ALL EXCEPT 69-37325-121, -126, -129, -131 and 69-78547-2

\*[2] 69-37325-112, -113, -114, -121, -125, -126, -127

\*[3] 17.3 ± 1.5v for 69-37325-113, -116, -117, -119, -121, -125, -126, -127, -129, -130, -131

\*[4] 69-37325-115 only

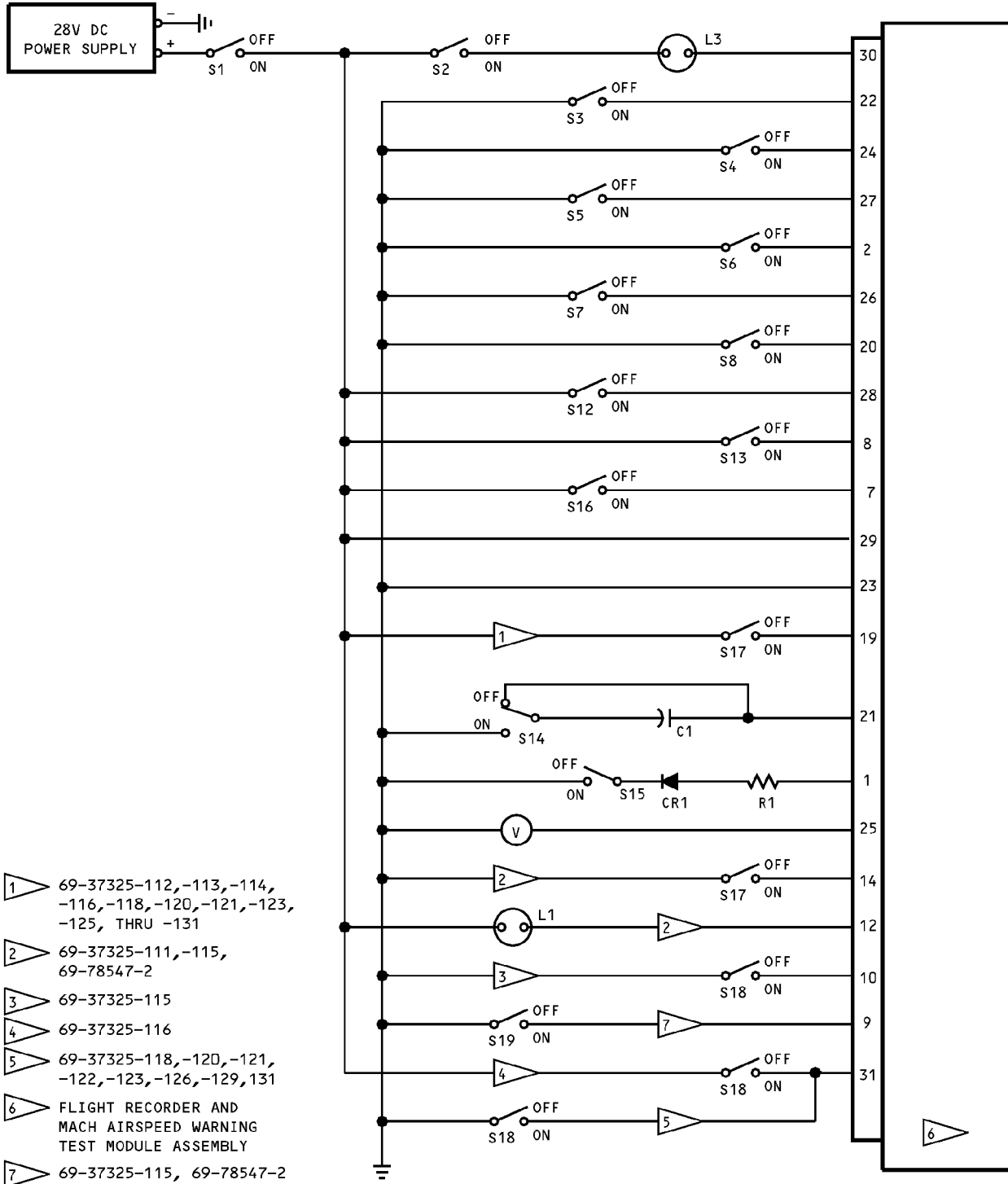
\*[5] Module Lamp L1 "Flight Recorder Off"

\*[6] DS1 for 69-37325-114

\*[7] ALL EXCEPT 69-37325-123

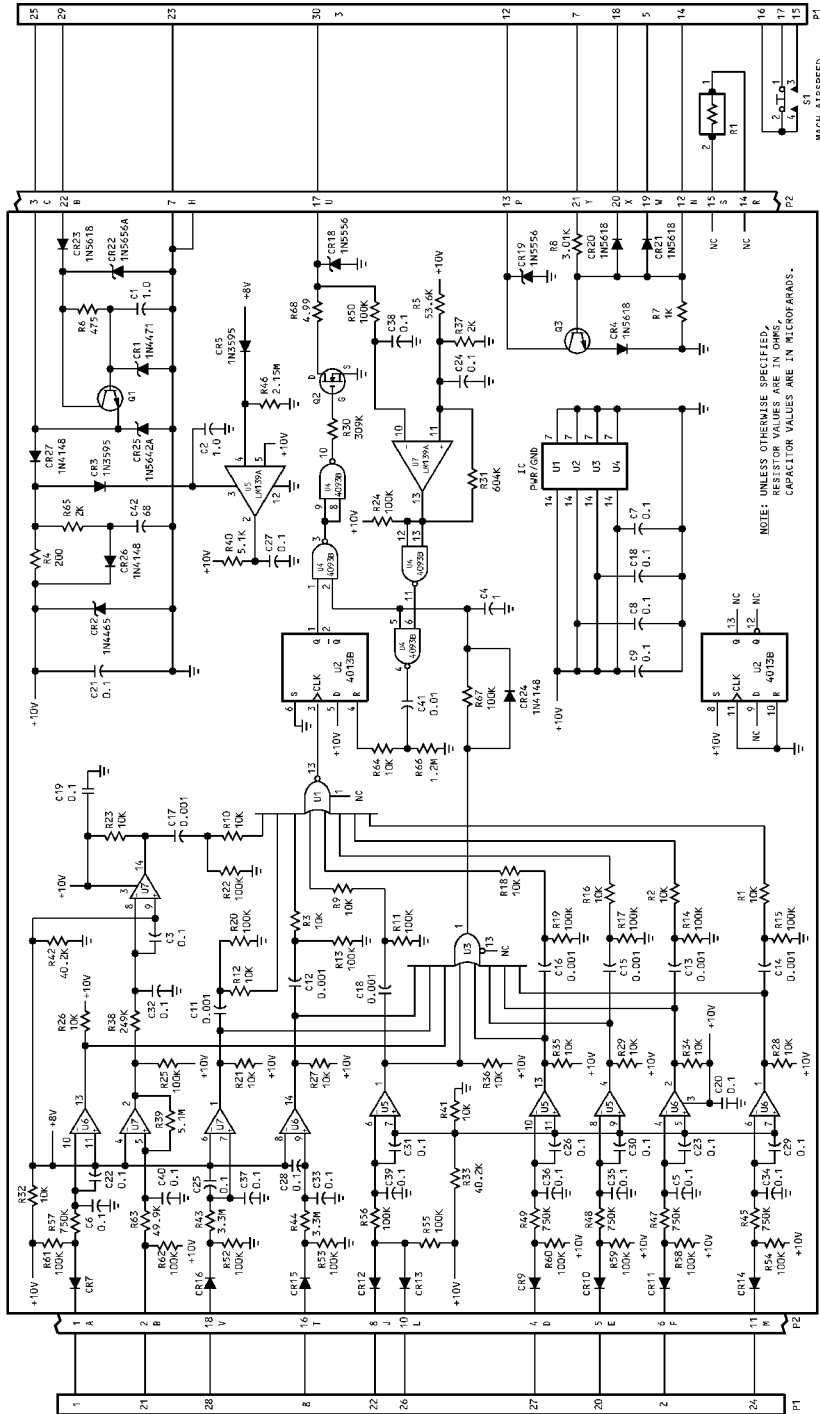
\*[8] L3 ON in 0.5 to 1.5 seconds

COMPONENT MAINTENANCE MANUAL



Test Setup  
Figure 101

# COMPONENT MAINTENANCE MANUAL



Schematic Diagram  
Figure 102

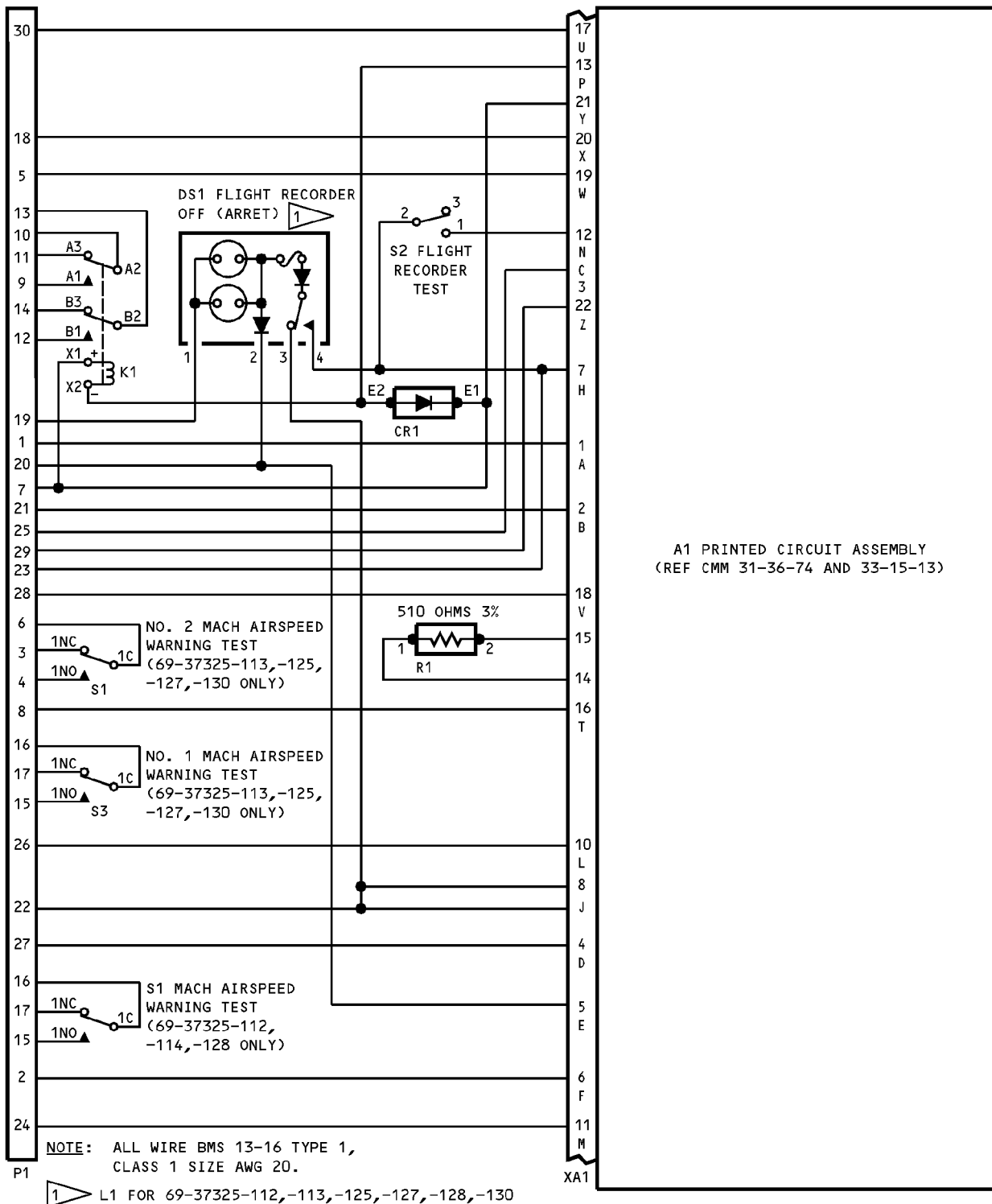
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69-37325-112, -113, -114, -125, -127, -128, -130 Schematic Diagram  
Figure 103

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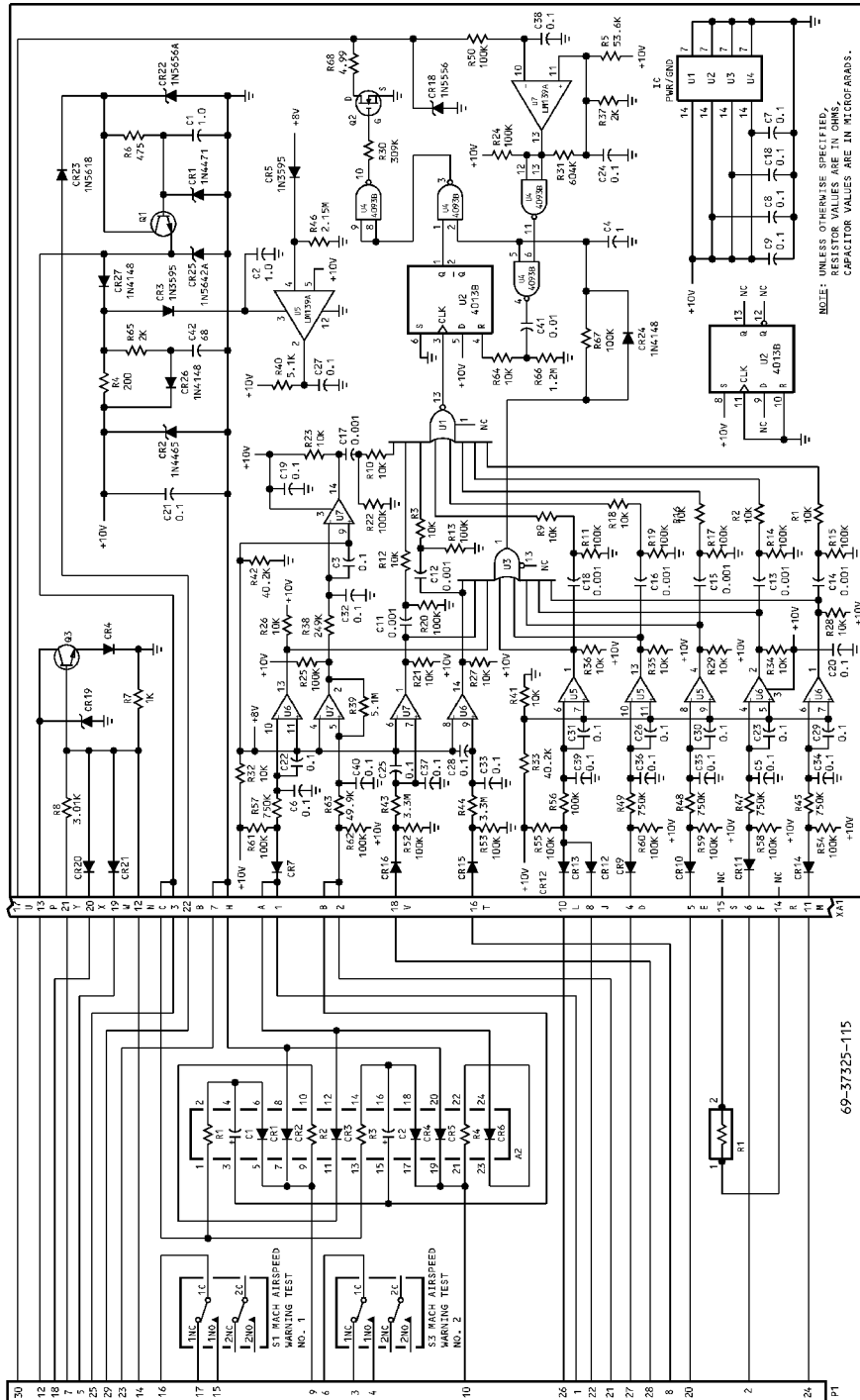
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# COMPONENT MAINTENANCE MANUAL



Schematic Diagram  
Figure 104

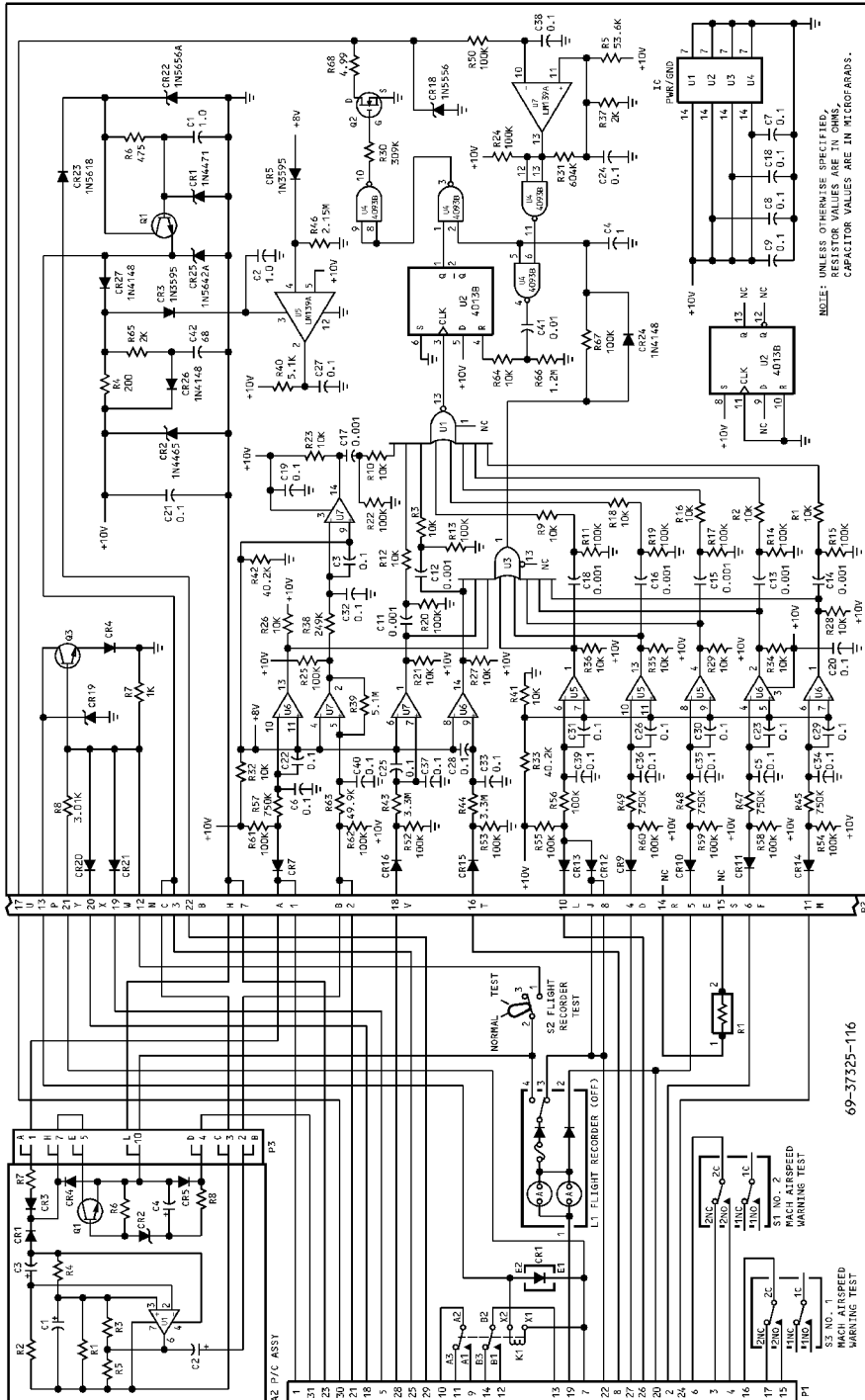
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# COMPONENT MAINTENANCE MANUAL



Schematic Diagram  
Figure 105

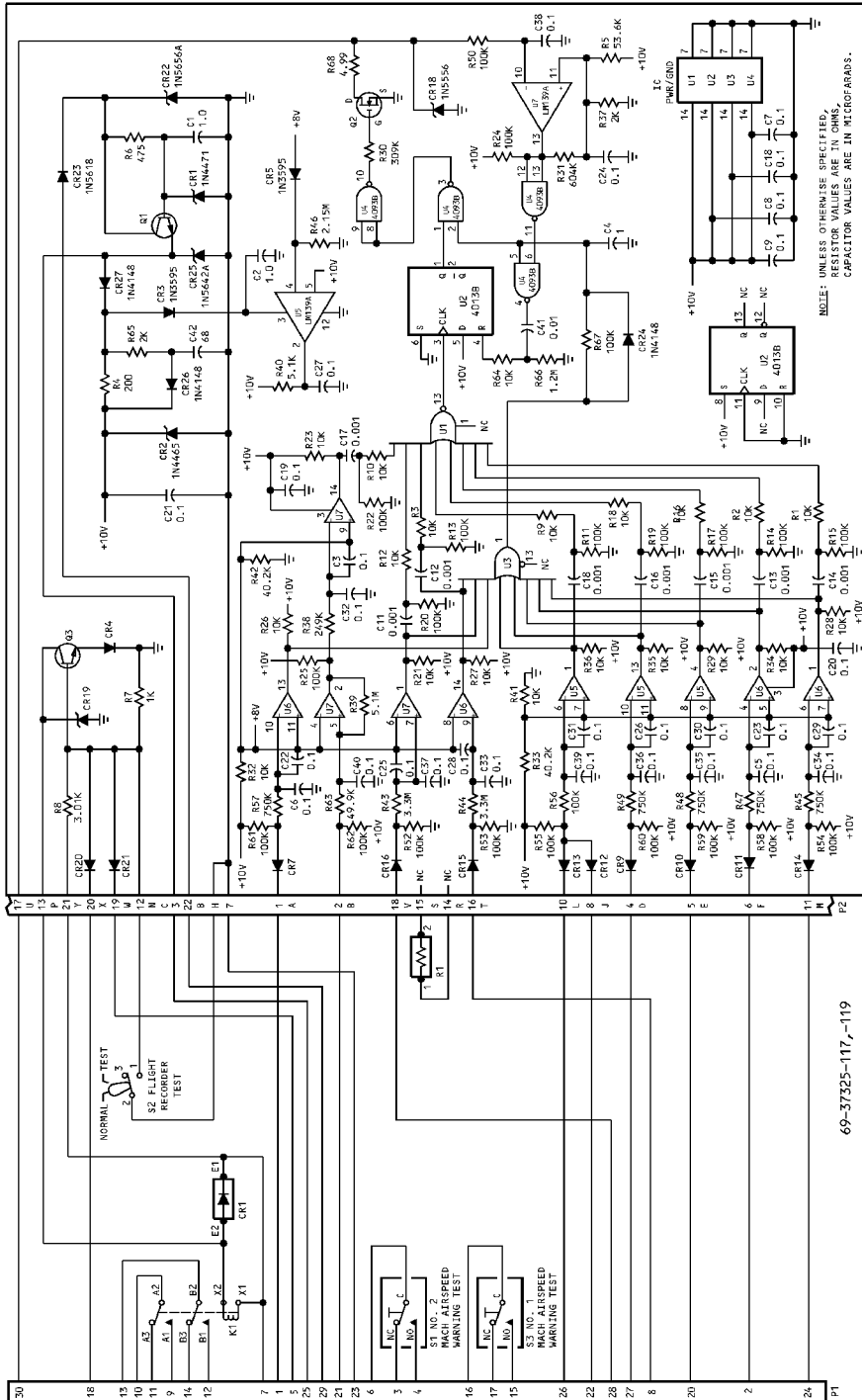
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Schematic Diagram  
Figure 106

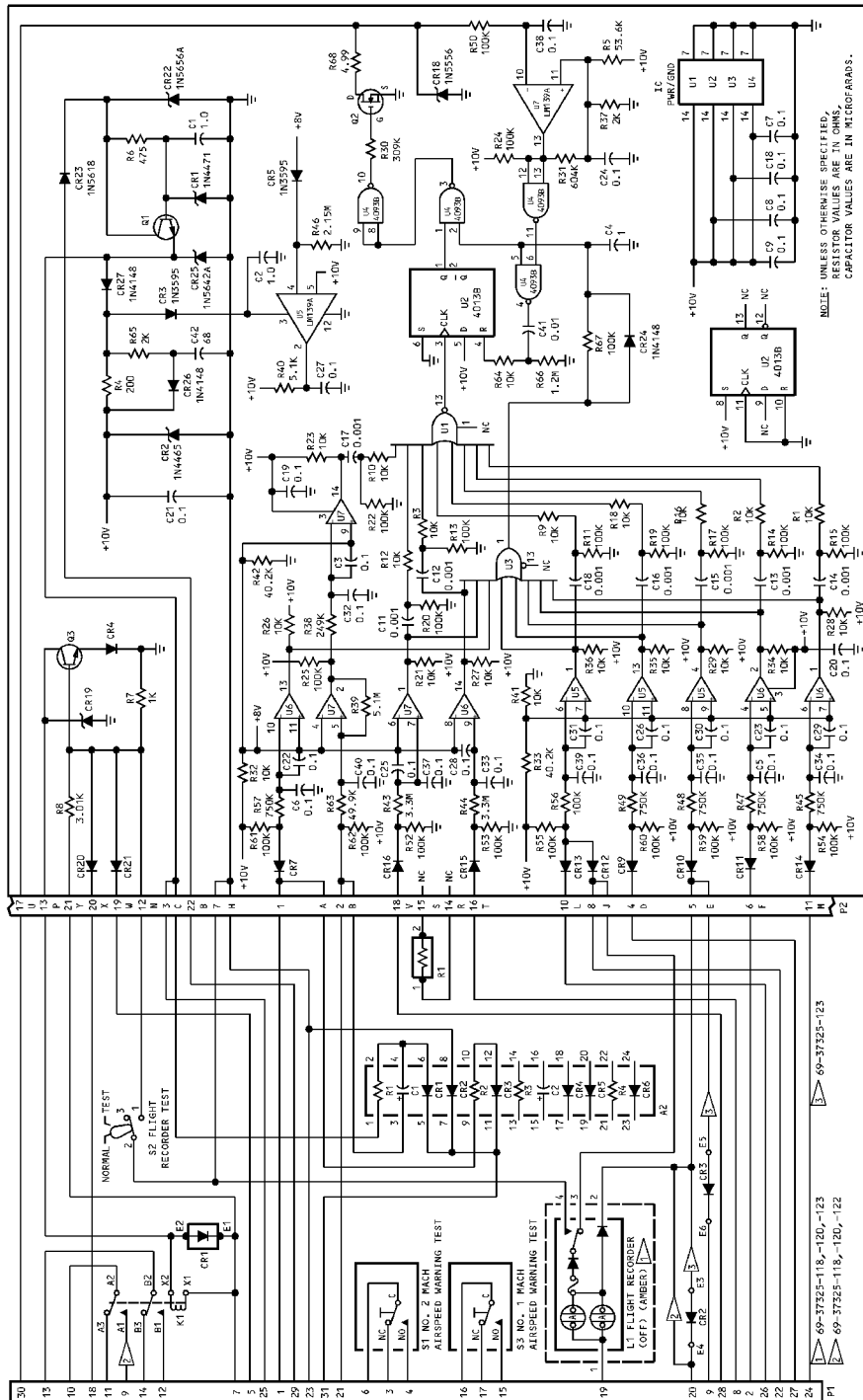
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69-37325-118, -120, -122, -123 Schematic Diagram  
Figure 107

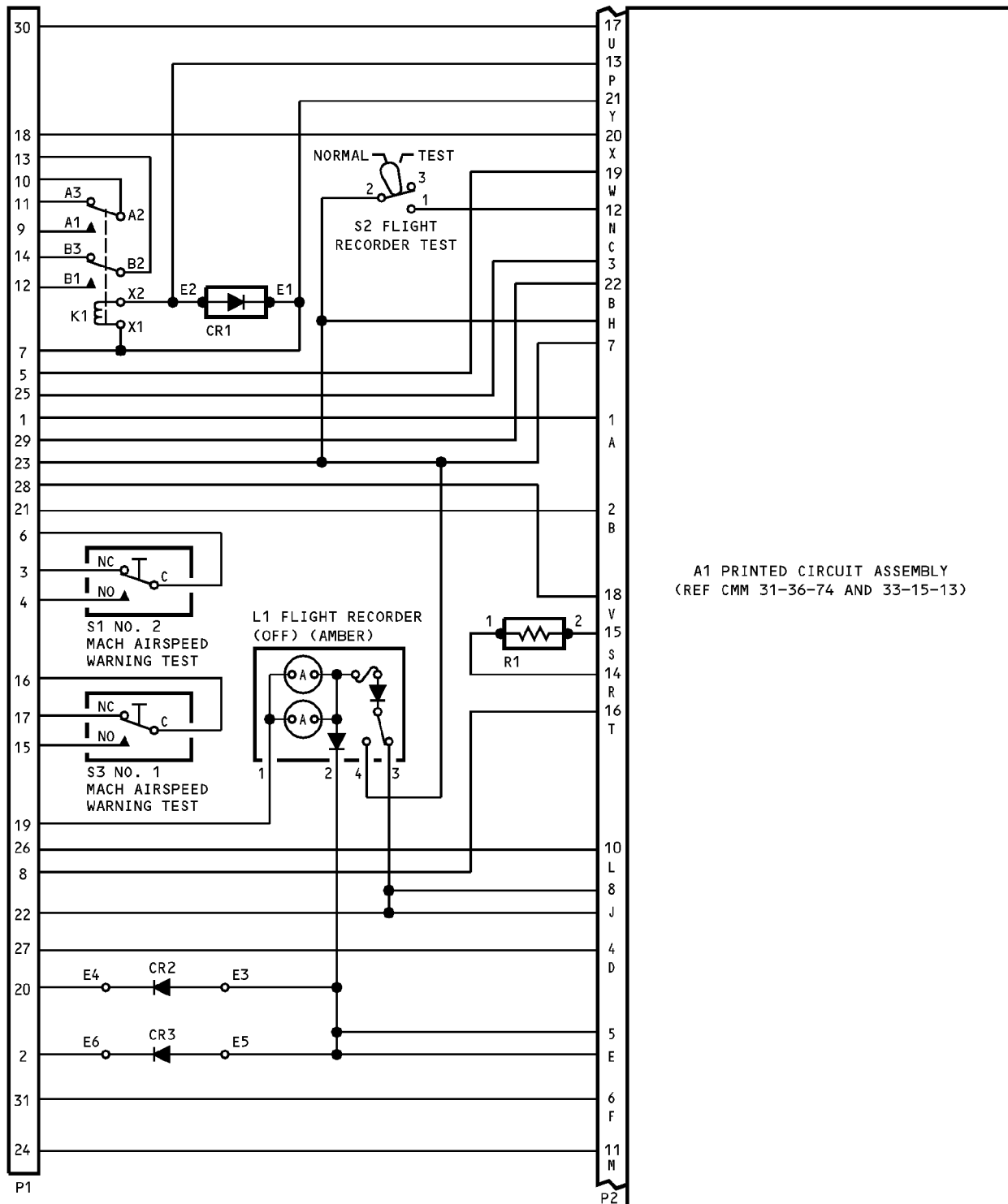
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A1 PRINTED CIRCUIT ASSEMBLY  
(REF CMM 31-36-74 AND 33-15-13)

69-37325-121, -126, -129, -131 Schematic Diagram  
Figure 108

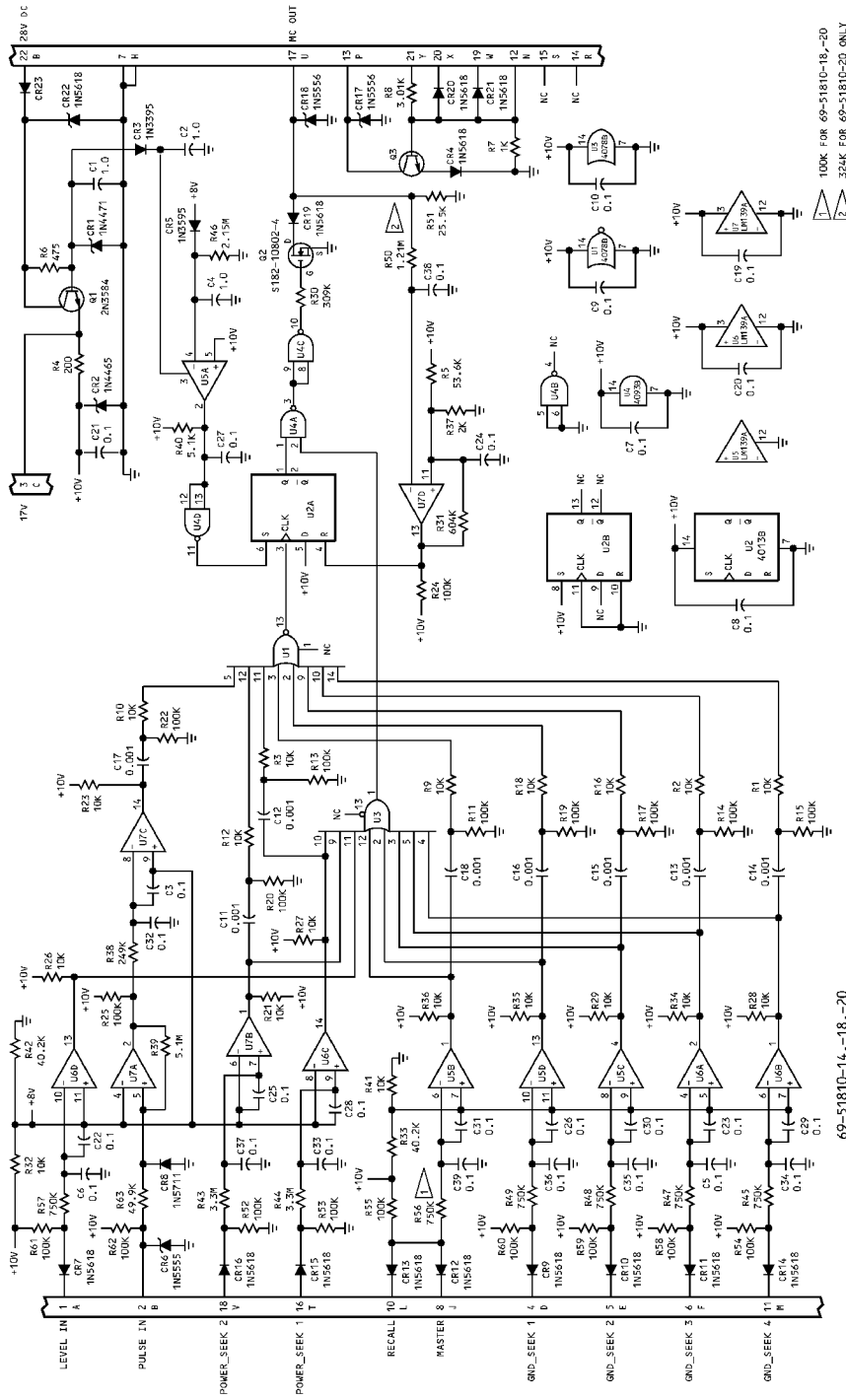
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69-51810-14,-18,-20

Schematic Diagram Figure 109

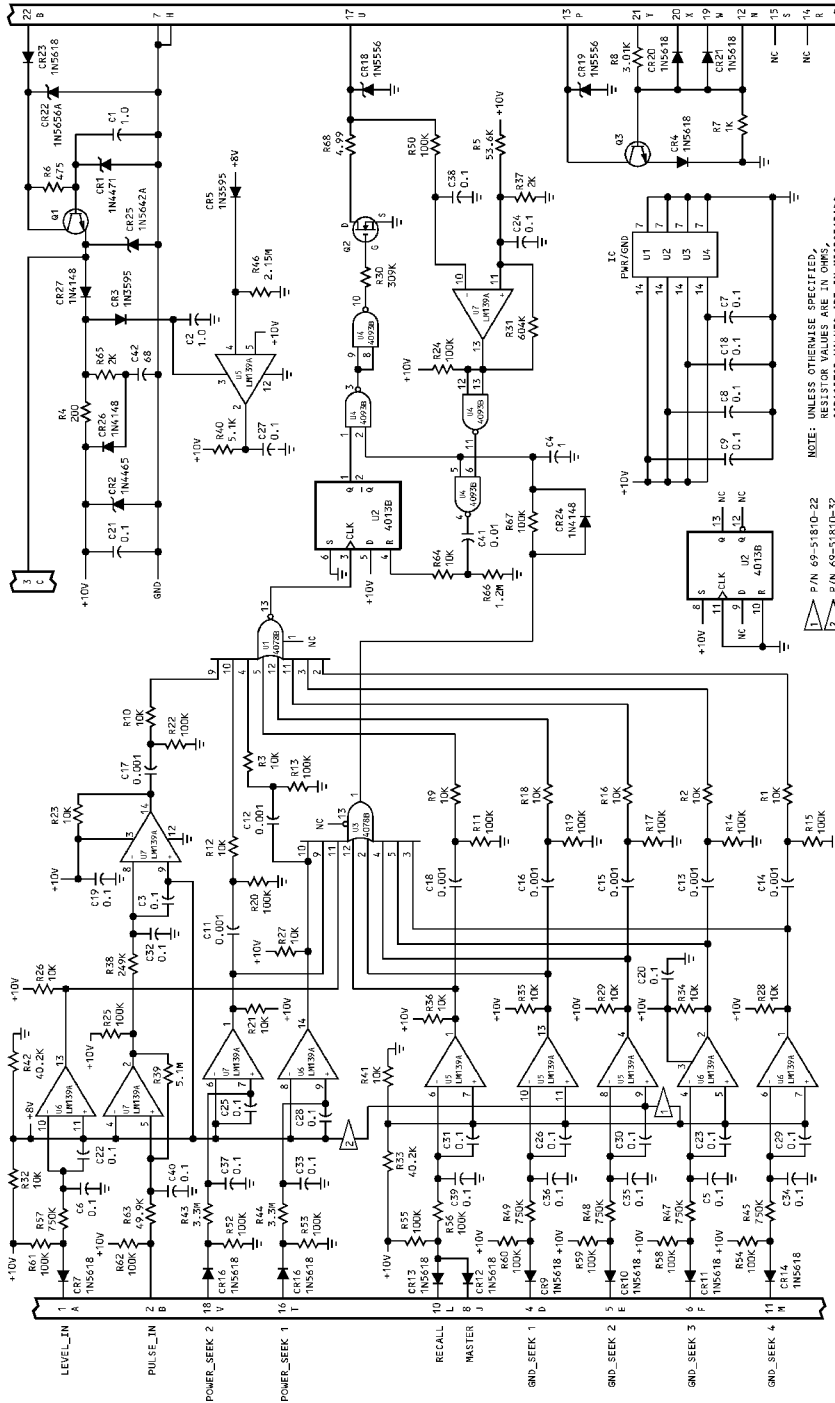
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Schematic Diagram  
Figure 110

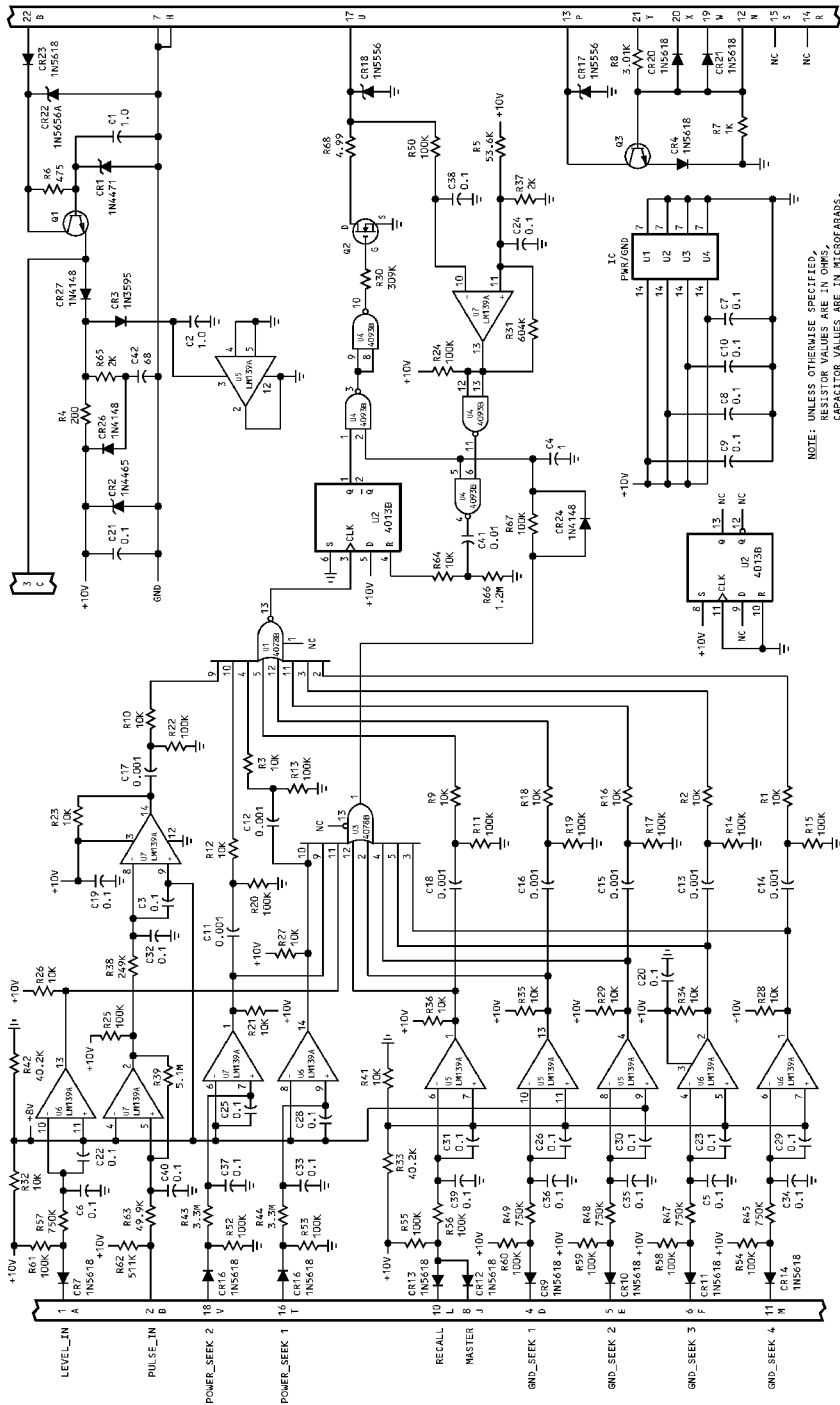
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Schematic Diagram  
Figure 111

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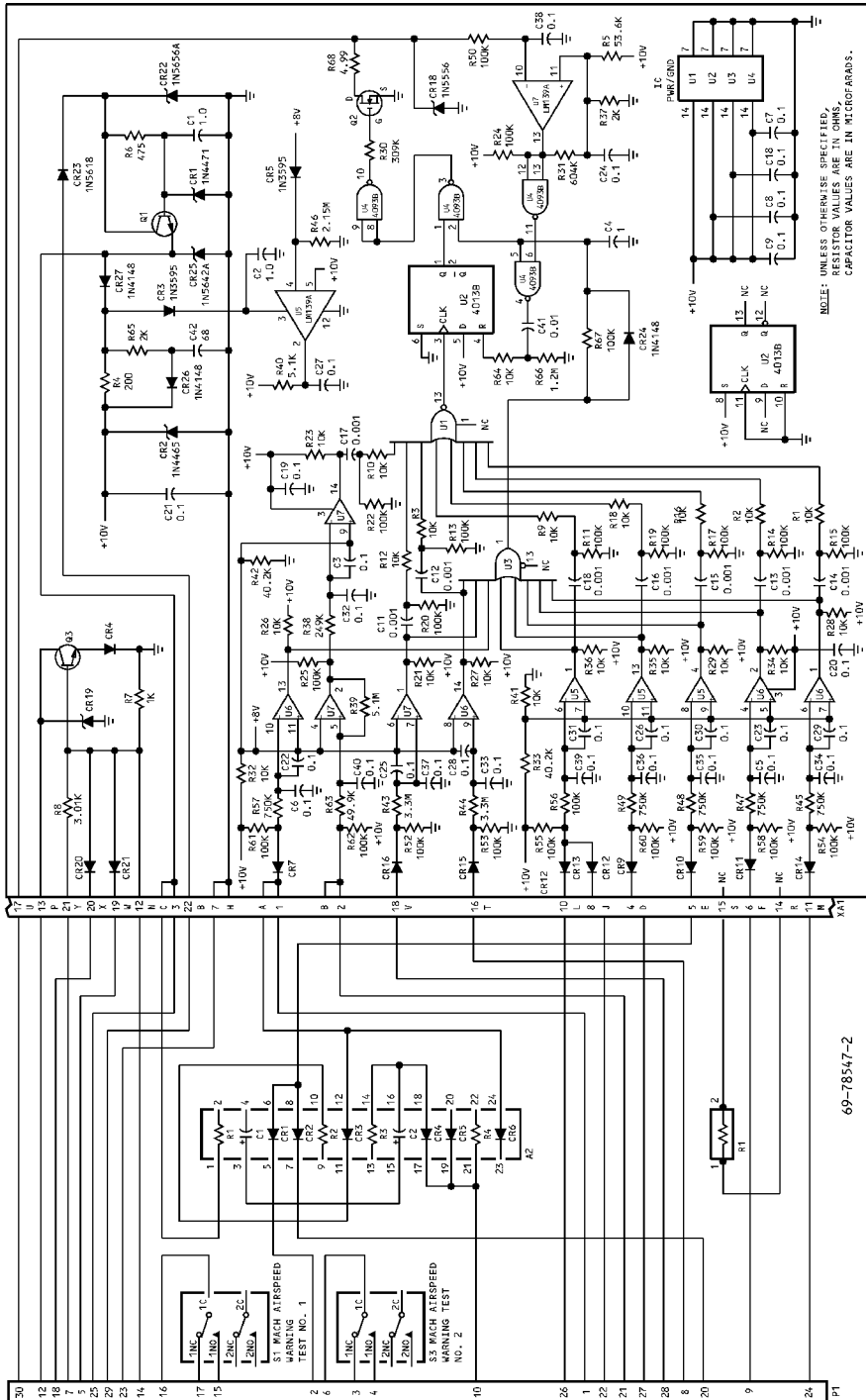
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Schematic Diagram  
Figure 112

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DISASSEMBLY

**(NOT APPLICABLE)**

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DISASSEMBLY

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COMPONENT MAINTENANCE MANUAL

CLEANING

**(NOT APPLICABLE)**

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CLEANING

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COMPONENT MAINTENANCE MANUAL

CHECK

**(NOT APPLICABLE)**

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CHECK  
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## COMPONENT MAINTENANCE MANUAL

### REPAIR

#### 1. General

- A. All repair may be accomplished with industry practices and procedures contained in 31-10-01 except as listed in the following:
- B. If keying plug (Item 115, IPL Figure 1, IPL Figure 2, IPL Figure 5, IPL Figure 6 or Item 150, IPL Figure 3 or Item 80, IPL Figure 4) is replaced, insert at contact position 9 (for all assemblies except 69-37325-116) or position 8 (for 69-37325-116).
- C. Install connectors (Item 135, IPL Figure 1, IPL Figure 2 or Items 60, 175, IPL Figure 3 or Items 70, 71, IPL Figure 4 or Item 110, IPL Figure 5, IPL Figure 6) with contact position 1 adjacent to resistor R1.

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REPAIR - GENERAL

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COMPONENT MAINTENANCE MANUAL

ASSEMBLY

**(NOT APPLICABLE)**

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ASSEMBLY

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**COMPONENT MAINTENANCE MANUAL**

**FITS AND CLEARANCES**

**(NOT APPLICABLE)**

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FITS AND CLEARANCES

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## COMPONENT MAINTENANCE MANUAL

### SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

#### 1. General

A. This section lists the special tools, fixtures, and equipment necessary for maintenance.

**NOTE:** Equivalent substitutes may be used.

#### Special Tools

Reference	Description	Part Number	Supplier
SPL-5367	Test Connector	BACC45FT18-31S	81205

#### Tool Supplier Information

CAGE Code	Supplier Name	Supplier Address
81205	THE BOEING COMPANY	17930 INTERNATIONAL BLVD. SOUTH SEATAC, WA 98188-4321 Telephone: 206-662-6650 Facsimile: 206-662-7145

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SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

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## COMPONENT MAINTENANCE MANUAL

### ILLUSTRATED PARTS LIST

#### 1. Introduction

- A. The Illustrated Parts List (IPL) contains an illustration and a list of component parts you can repair or replace. The Illustrated Parts Catalog (IPC) shows how to use the Boeing part number system.
- B. This shows how parts are related: The relation of each item to its next higher assembly (NHA) is shown in the NOMENCLATURE column. Use the indenture system that follows:

1	2	3	4	5	6	7
.	Assembly					
.	Attaching parts for assembly					
.	.	Detail parts for assembly				
.	.	Subassembly				
.	.	Attaching parts for subassembly				
.	.	.	Detail parts for subassembly			
.	.	.	Sub-subassembly			
.	.	.	Attaching parts for subassembly			
.	.	.	.	Details parts for sub-subassembly		
						Detail Installation Parts (Included only if installation parts may be sent to the shop as part of assembly)

- C. Each top assembly is given one use code letter (A, B, C, etc.) in the USAGE CODE column. All subsequent component parts in the list can have one or more of the use code letters to show effectivity to top assemblies. A component part without a use code applies to all top assemblies.
- D. An alphabetical letter is added after the item number for optional parts, parts changed by a Service Bulletin, configuration differences (except left-handed and right-handed parts), last engineering releases, and parts added between item numbers in a sequence. The alphabetical letter will not be shown on the illustration for equivalent parts of the same part number.
- E. Color-coded parts are identified with a single digit alpha following the dash number or with "SP" suffix. If the "SP" suffix is used, it represents consolidation of all color codes applicable for a given usage which are not separately listed. Orders for color-coded parts should include the registry number of the airplane for which the parts are ordered.
- F. If a part number is 15 characters long but will not fit in the part number column, the part number will be displayed with a "~" at the end of the line and will be continued on the next line. The "~" denotes that the part number continues on the next line.
- G. Parts changed by a Service Bulletin are shown by PRE SB XXXX and POST SB XXXX added to the NOMENCLATURE column.
- (1) When a new top assembly is added by a Service Bulletin, PRE SB XXXX and POST SB XXXX will be added at the top assembly level only. The configuration differences at the detail part level are shown by use code letters.
- (2) When the top assembly part number is not changed by the Service Bulletin, PRE SB XXXX and POST SB XXXX will be added at the detail level.
- H. Interchangeable Parts

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ILLUSTRATED PARTS LIST

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## COMPONENT MAINTENANCE MANUAL

Optional (OPT)	The part is optional to and interchangeable with other parts that have the same item number.
Replaces, Replaced by and not interchangeable with (REPLACES, REPLACED BY AND NOT INTCHG/W)	The part replaces and is not interchangeable with the initial part.
Replaces, Replaced by (REPLACES, REPLACED BY)	The part replaces and is interchangeable with, or is an alternative to, the initial part.

### VENDOR CODES

<b>Code</b>	<b>Name</b>
00213	MSD INC 700 ORANGE ST DARLINGTON, SOUTH CAROLINA 29532 FORMERLY V01350; FORMERLY 78290; FORMERLY NYTRONICS COMPONENTS GROUP
00779	TYCO ELECTRONICS CORP 2800 FULLING MILL ROAD PO BOX 3608 MIDDLETOWN, PENNSYLVANIA 17057 FORMERLY AMP INC; FORMERLY V04618 FORMERLY GENICOM COMP V01526
02660	AMPHENOL CORP INDUSTRIAL TECHNOLOGY DIV 358 HALL AVENUE PO BOX 384 WALLINGFORD, CONNECTICUT 06492 FORMERLY BUNKER RAMO CORP, ELTRA CORP AMPHENOL AND AMPHENOL CORP COMM AND IND DIV
06950	SCREWCORP VSI AEROSPACE PRODUCTS DIV FAIRCHILD IND DIV 13001 EAST TEMPLE AVENUE PO BOX 730 CITY OF INDUSTRY, CALIFORNIA 91746-1417 FORMERLY VB0096 AND VSI CORP SCREWCORP DIV FORMERLY IN CULVER CITY, CALIFORNIA SCREW CORP SEE V.S.I. CORP SCREWCORP DIVISION
11815	CHERRY AEROSPACE FASTENERS DIV OF TEXTRON 1224 EAST WARNER AVENUE PO BOX 2157 SANTA ANA, CALIFORNIA 92707-0157 FORMERLY IN LOS ANGELES, CALIF , FORMERLY CHERRY FASTENERS TOWNSEND DIV OF TEXTRON INC V71087

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## COMPONENT MAINTENANCE MANUAL

Code	Name
13556	LABINAL COMPONENTS AND SYS CINCH MILITARY AEROSPACE DIV 8821 SCIENCE CENTER DRIVE MINNEAPOLIS, MINNESOTA 55428-3619 FORMERLY TRW CINCH MFG CO, FORMERLY IN NEW HOPE, MINNESOTA FORMERLY CINCH CYLINDRICAL DIV OF LABINAL COMP & SYS
14936	GENERAL INSTRUMENT CORP POWER SEMICONDUCTOR DIV 600 WEST JOHN STREET HICKSVILLE, NEW YORK 11802 FORMERLY GENERAL INSTRUMENT CORP DISCRETE SEMICONDUCTOR DIV
15653	ALCOA GLOBAL FASTENERS INC DIV KAYNAR PRODUCTS 800 S STATE COLLEGE BLVD FULLERTON, CALIFORNIA 92831-3001 FORMERLY VK6405 MICRODOT AEROSP LTD; FORMERLY KAYNAR TECH FORMERLY FAIRCHILD FASTENERS KAYNAR DIV
35344	Replaced: [V35344] LEACH CORP RELAY DIV SEE LEACH CORP CONTROL PROD DIV V58657 by Code: Name and Address below 58657: LEACH INTERNATIONAL OF NORTH AMERICA 6900 ORANGETHORPE AVE PO BOX 5032 BUENA PARK, CALIFORNIA 90622-5032 FORMERLY LEACH CORP V35344 AND V00614 FORMERLY LEACH CORP
49367	AMPHENOL CORP AMPHENOL AEROSPACE PYLE-NATIONAL CONNECTORS 40-60 DELAWARE AVE SIDNEY, NEW YORK 13838-1395
52828	REPUBLIC FASTENER MFG CORP 1300 RANCHO CONEJO BLVD NEWBURY PARK, CALIFORNIA 91320-1405 FORMERLY IN SYLMAR, CALIFORNIA

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## COMPONENT MAINTENANCE MANUAL

Code	Name
60119	<p>MONADNOCK CO THE            18301 ARENTH AVENUE            ROWLAND HEIGHTS, CALIFORNIA 91748-1288            FORMERLY UNITED CARR FASTENER CORP VB0051 VB0056 VB0076            FORMERLY TRW ELECTRONIC COMPONENTS CINCH-MONADNOCK DIV            FORMERLY CINCH-MONADNOCK DIV OF TRW INC V76530            FORMERLY IN CITY OF INDUSTRY, CALIFORNIA</p>
72914	<p>HONEYWELL/GRIMES AEROSPACE            550 STATE RT 55            URBANA, OHIO 43078            FORMERLY AERO-FLOW V70128; MIDLAND-ROSS JANITROL AERO DIV;            FORMERLY FL AEROSP CORP V89513; ALLIEDSIGNAL/GRIMES AEROSP            FORMERLY GRIMES AEROSPACE V00672 AND HONEYWELL V60187</p>
72962	<p>HARVARD INDUSTRIES INC            3 WERNER WAY SUITE 210            LEBANON, NEW JERSEY 08833            FORMERLY ESNA V7A079            FORMERLY ELASTIC STOP NUT IN UNION, NJ</p>
80539	<p>SPS TECHNOLOGIES INC DIV AERPSOACE - SANTA ANA            2701 SOUTH HARBOR BOULEVARD            SANTA ANA, CALIFORNIA 92704-5803            FORMERLY NUTT-SHEL DIV OF SPC WESTERN CO V80539            AND STANDARD PRESSED STEEL WESTERN DIV V17279</p>
81590	<p>KORRY ELECTRONIC INC SUB OF CRITON CORP            901 DEXTER AVENUE NORTH            SEATTLE, WASHINGTON 98109-3515            FORMERLY KORRY, BORIS VB0021 AND KORRY MFG CO</p>
81640	<p>EATON CORP AEROSPACE AND COMMERCIAL CONTROLS DIV            2250 WHITFIELD AVENUE EAST            SARASOTA, FLORIDA 34243-9703            FORMERLY SINGER CO CONTROLS DIV AND CONTROLS CO OF            AMERICA            AND CONTROL SWITCH A CUTLER-HAMMER CO AND EATON CORP            CUTLER-HAMMER GROUP V97198, V81641 IN FOLCROFT,            PENNSYLVANIA            INFO FROMVDR THRU M2880 FEB 1987            SWITCHES</p>

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## COMPONENT MAINTENANCE MANUAL

Code	Name
81950	CROSS COMPANY 17801 FOURTEEN MILE ROAD FRASER, MICHIGAN 48026-2258
88245	WINCHESTER ELECTRONICS LITTON SYSTEMS INC USECO DIV 13536 SATICOY STREET VAN NUYS, CALIFORNIA 91409 FORMERLY U.S. ENGINEERING CO V88245 AND LITTON PRECISION PRODUCTS INC USECO DIV LITTON IND AND LITTON SYSTEMS INC USECO DIV
89954	BAE SYSTEMS CONTROL 600 MAIN STREET JOHNSON CITY, NEW YORK 13790 FORMERLY MARTIN MARIETTA AIRCRAFT CONTROL SYSTEMS; FORMERLY LOCKHEED MARTIN CONTROL SYSTEMS
91637	VISHAY DALE ELECTRONICS VISHAY AMERICAS INC DBA VISHAY 1122 23RD STREET PO BOX 609 COLUMUS, NEBRASKA 68602-0609
91833	KEYSTONE ELECTRONICS CORPORATION 31-07 20TH ROAD ASTORIA, NEW YORK 11105-2017 FORMERLY IN NEW YORK, NEW YORK
91929	HONEYWELL INC MICRO SWITCH DIV 11 WEST SPRING STREET FREEPORT, ILLINOIS 61032 FORMERLY MICRO SWITCH A DIV OF HONEYWELL FORMERLY V74059 AND V40228
92215	FAIRCHILD IND INC FAIRCHILD AEROSPACE FASTENER DIV 3010 W LOMITA BLVD TORRANCE, CALIFORNIA 90505-5102 FORMERLY VOI-SHAN IN CULVER CITY, CALIF

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## COMPONENT MAINTENANCE MANUAL

### REFERENCE DESIGNATOR INDEX

REFERENCE DESIGNATOR	PART NUMBER	FIG-ITEM
A1	69-51810-22	1-25
A1	69-51810-33	1-25A
A1	69-51810-22	2-25
A1	69-51810-33	2-25A
A1	69-51810-22	3-25
A1	69-51810-33	3-25A
A1	69-51810-20	3-25B
A1	69-51810-32	3-25C
A1	69-51810-18	3-25D
CR1	1N4384	2-167
CR1	1N4384	3-195
E3-E6	1491A	3-95
E3-E6	1625-4-12	3-95A
K1	BACR13CF4	2-150
K1	BACR13CF4	3-190
L1	10-61803-12	3-135
P1	ZZWAC1718-31P	2-50
P1	ZZWAC1718-31P	3-170
P1	ZZWAC1718-31P	3-55
R1	RH5-510-3PCT	1-150
R1	3105M510-3PCT	1-150A
R1	RH5-510-3PCT	2-180
R1	3105M510-3PCT	2-180A
R1	RER60F2210R	2-180B
R1	RER60F2210R	3-220
R1	RH5-510-3PCT	3-220A
R1	3105M510-3PCT	3-220B
S1	2PB11H58	1-100
S2	MS24523-23	2-100
S2	MS24523-23	3-130

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NUMERICAL INDEX

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY		
10-61803-12		3	135	1		
		4	150	1		
		5	215	1		
		6	185A	1		
10-61803-251		6	185	1		
11170-1		2	95	1		
		3	125	1		
		4	160	1		
		5	190	1		
		6	180	1		
		5	235	2		
1419A		5	235A	6		
1491A		2	165	2		
		3	95	4		
		3	205	2		
		3	205A	2		
		4	180	2		
		6	140	2		
		2	165A	2		
1625-4-12		3	95A	4		
		3	205B	2		
		3	205C	2		
		4	180A	2		
		5	235B	2		
		5	235C	6		
		6	140A	2		
		2	167	1		
		3	90	2		
		3	195	1		
1N4384		4	190	1		
		5	225	1		
		5	225A	3		
		6	145	1		
		2	40	2		
		293162		2	40	2

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## COMPONENT MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
2PB11H58		3	45	2
		1	100	2
		2	105	2
		3	140	2
		4	145	2
		5	195	2
3105M510-3PCT		6	170	1
		6	170A	2
		1	150A	1
		2	180A	1
		3	220B	1
		4	195A	1
318-630-1001-008		5	130A	1
		6	160A	1
		4	150	1
318-630-1001-195		5	215	1
		6	185A	1
48-10R18-31P300		6	185	1
		1	55	1
582507-1		2	50	1
		3	55	1
		3	170	1
		1	115	1
		2	115	1
		3	150	1
582551-1		4	80	2
		5	115	1
		6	115	1
		4	71	1
		1	135	1
582557-1		2	135	1
		3	60	1
		3	175	1
		4	70	1
		5	110	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
		6	110	1
640024-1		5	170	3
66143-2		1	60	AR
		3	65	AR
		4	215	1
		5	165	AR
662143-2		6	215	AR
69-37268-13		2	90	1
		3	120	1
		4	40	2
		5	85	1
		6	85	1
69-37268-14		1	85	1
		2	85	1
		3	115	1
		5	90	1
		6	90	2
69-37325-106		3	145A	1
69-37325-107		3	50B	1
		5	160B	1
69-37325-110		2	45A	1
69-37325-111		1	1	RF
		5	1	RF
69-37325-112		1	1A	RF
		6	1	RF
69-37325-113		1	1B	RF
		6	1A	RF
69-37325-114		1	1C	RF
		6	1B	RF
69-37325-115		1	1D	RF
69-37325-116		1	1E	RF
		4	1	RF
69-37325-117		1	1F	RF
		2	1	RF
69-37325-118		1	1G	RF

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
		5	1A	RF
69-37325-119		1	1H	RF
		2	1A	RF
69-37325-120		1	1J	RF
		3	1	RF
69-37325-121		1	1K	RF
		5	1B	RF
69-37325-122		1	1L	RF
		2	1B	RF
69-37325-123		1	1M	RF
		5	1C	RF
69-37325-124		5	160C	1
69-37325-125		1	1N	RF
		3	1A	RF
69-37325-126		1	1P	RF
		3	1B	RF
69-37325-127		1	1Q	RF
		3	1C	RF
69-37325-128		1	1R	RF
		6	1C	RF
69-37325-129		1	1S	RF
		3	1D	RF
69-37325-130		1	1T	RF
		3	1E	RF
69-37325-131		1	1U	RF
		3	1F	RF
69-37325-18		3	145	1
		5	145B	1
		6	195	1
69-37325-21		6	195A	1
69-37325-44		5	160	1
69-37325-45		5	145	1
69-37325-5		1	165	1
		2	200	1
		3	240	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
		5	75	1
		6	75	1
69-37325-54		6	210	1
69-37325-55		3	50A	1
		6	210A	1
69-37325-58		6	210B	1
69-37325-64		1	50	1
		5	160D	1
69-37325-70		1	90	1
		5	85A	1
69-37325-71		1	95	1
		5	200	1
69-37325-73		1	105	1
		5	145A	1
69-37325-75		4	90	1
69-37325-76		4	125	1
69-37325-77		4	50	1
69-37325-78		4	45	1
69-37325-8		1	160	1
		2	195	1
		3	235	1
		5	80	1
		6	80	1
69-37325-80		2	110	1
69-37325-83		4	5	1
69-37325-96		2	45	1
69-37325-98		3	50	1
		5	160A	1
69-43948-12		1	65	1
		2	75	1
		3	105	1
		5	60	1
		6	60	1
69-43948-14		5	140	1
		6	190	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
69-43948-17		1	155	1
		2	190	1
		3	230	1
		5	140A	1
		6	190A	1
		69-43948-19		3
69-43948-19		3	20	1
		5	15	1
		5	25	1
		6	15	1
		6	25	1
		69-43948-20		3
69-43948-20		5	10	1
		6	10	1
		69-43948-21		5
69-43948-21		6	20	1
		69-43948-22		1
69-43948-22		1	20	1
		2	5	1
		2	20	1
		5	15A	1
		5	25A	1
		69-43948-23		1
69-43948-23		2	10	1
		5	10A	1
		69-43948-24		4
69-43948-25		4	15	1
69-43948-26		4	20	1
69-43948-28		4	60	1
69-43948-29		4	35	1
69-51810-14		5	30	1
		6	30	1
69-51810-18		3	25D	1
69-51810-20		3	25B	1
		6	30A	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
69-51810-22		1	25	1
		2	25	1
		3	25	1
		4	130A	1
		5	30A	1
		6	30B	1
69-51810-32		3	25C	1
		3	25E	1
		6	30D	1
69-51810-33		1	25A	1
		2	25A	1
		3	25A	1
		4	130B	1
		5	30B	1
		6	30C	1
69-63592-9		1	72	1
		2	65	1
		3	80	1
		5	205	1
69-71571-3		4	135	1
69-78547-2		1	2B	RF
		5	1D	RF
96-62		1	130	2
		2	130	2
		2	145	2
		3	165	2
		3	185	2
		3	180A	6
AN960JD6		3	180A	6
AN960PD6		2	140	6
		3	180	6
		4	170	6
		5	240	6
		6	125	6
		6	125	6
BAC27DCC1061		2	210	1
BAC27DCC239		1	170	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
		2	205	1
		3	250	1
		5	175	1
		6	225	1
BAC27DCC571		6	165A	1
BAC27DCC572		3	245	1
		4	140	1
		5	180B	1
		6	165B	1
BAC27DCC666		6	165	1
BAC27DCC933		1	175	1
BAC27DEX1347		5	180	1
BAC27DEX933		5	180A	1
BAC27EEX510		1	180	1
		2	215	1
		3	255	1
		4	210	1
		5	175A	1
		6	230	1
BACC45FN18-31P		1	55	1
		2	50	1
		3	55	1
		3	170	1
		4	115	1
		5	45	1
		6	45	1
BACN10DN26		1	148	2
		2	175	1
		3	215	2
		4	205	2
		5	125	2
		6	155	2
BACN10DN40		2	60	4
		3	75	4
		5	250	4

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
BACN10JC06		1	130	2
		2	130	2
		2	145	2
		3	165	2
		3	185	2
		4	55	4
		4	175	2
		5	105	2
		5	105A	4
		6	105A	2
BACN10NW1		6	120A	2
		1	45	2
		2	40	2
		3	45	2
		4	120	2
		5	40	2
BACP10U0225G		6	40	2
		5	150	1
BACP10U0262G		6	200	1
		4	95	1
BACR13CF4		2	150	1
		3	190	1
		5	220	1
		6	130	1
BACR13CF4A		4	165	1
BACS126B06-5		1	30	5
		2	30	4
BACS12BE02-3		2	160	2
		3	100	4
		3	200	2
		4	185	2
		5	230	6
		5	230A	2
		6	135	2
BACS12BE02-5		4	200	2

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY		
BACS12BF02-5		5	120	2		
		6	150	2		
		1	147	2		
		2	170	2		
		3	210	2		
		5	120A	2		
BACS12CB04-4		6	150A	2		
		1	70	4		
		1	110	3		
		1	152	3		
		2	185	3		
		3	225A	3		
		4	85	3		
		5	70	4		
		5	70A	7		
		5	70B	3		
		6	70	4		
		6	70A	3		
		BACS12CB04-5		1	40	2
				1	40	2
2	35			2		
2	35			2		
3	40A			2		
3	40A			2		
4	110			2		
5	35			2		
6	35			2		
BACS12CB06-14				1	120	2
		1	140	2		
		2	120	2		
		3	155	2		
		4	75	4		
		5	95	2		
		6	95	2		
		BACS12CB06-5		3	30A	4

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
		3	30A	4
		4	30	4
		5	50	4
		5	50A	5
		6	50	4
BACS21DD1G		4	100	4
		5	155	4
		6	205	4
BACT12S		6	220	AR
BCREF2579		4	150	1
		5	215	1
		6	185A	1
BCREF2687		6	185	1
BRH10A06		1	130	2
		2	130	2
		2	145	2
		3	165	2
		3	185	2
BRH10A62		1	130	2
		2	130	2
		2	145	2
		3	165	2
		3	185	2
C48-10R18-31P102		1	55	1
		2	50	1
		3	55	1
		3	170	1
H10-06BAC		1	130	2
		2	130	2
		2	145	2
		3	165	2
		3	185	2
JG2A		6	130A	1
K19798-04		1	45	2
		2	40	2

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
MOD15512SP2		3	45	2
		1	75	1
		2	70	1
		3	85	1
MOD15512SP2		5	210	1
MS24523-23		2	100	1
		3	130	1
		4	155	1
		5	185	1
		6	175	1
MS35338-41		1	35	5
		3	35	4
		5	55	4
		5	55A	5
		6	55	4
NAS1801-04-4		3	225	3
		5	70C	3
NAS1801-04-5		3	40	, 2
		5	35A	2
NAS1801-06-14		3	155A	2
		5	95A	2
NAS1801-06-5		3	30	, 4
		5	50B	4
NAS43DD1-17		1	125	2
		1	145	2
		2	125	2
		3	160	2
		4	65	4
		5	100	2
		6	100	2
NAS514P440-4		1	15	8
		2	15	8
		3	15	8
		4	25	8
		5	5	8

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
NAS514P440-5		6	5	8
		2	55	4
		3	70	4
		5	245	4
		1	80	5
NAS514P632-5		2	80	4
		3	110	4
		4	105	4
		5	65	4
		5	65A	5
		6	65	4
		6	105	2
		6	120	2
NS202101-62		1	130	2
		2	130	2
		2	145	2
		3	165	2
		3	185	2
RER60F2210R		2	180B	1
		3	220	1
		5	130B	1
RH5-510-3PCT		1	150	1
		2	180	1
		3	220A	1
		4	195	1
		5	130	1
		6	160	1
RMA4812-160-40		1	45	2
		2	40	2
		3	45	2
RMLH9075-62W		1	130	2
		2	130	2
		2	145	2
		3	165	2
		3	185	2
		3	185	2

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
T6S632J		1	130	2
		2	130	2
		2	145	2
		3	165	2
		3	185	2
VN303A62		1	130	2
		2	130	2
		2	145	2
		3	165	2
		3	185	2
W20161-03		5	135	1
ZZWAC1718-31P		1	55	1
		2	50	1
		3	55	1
		3	170	1

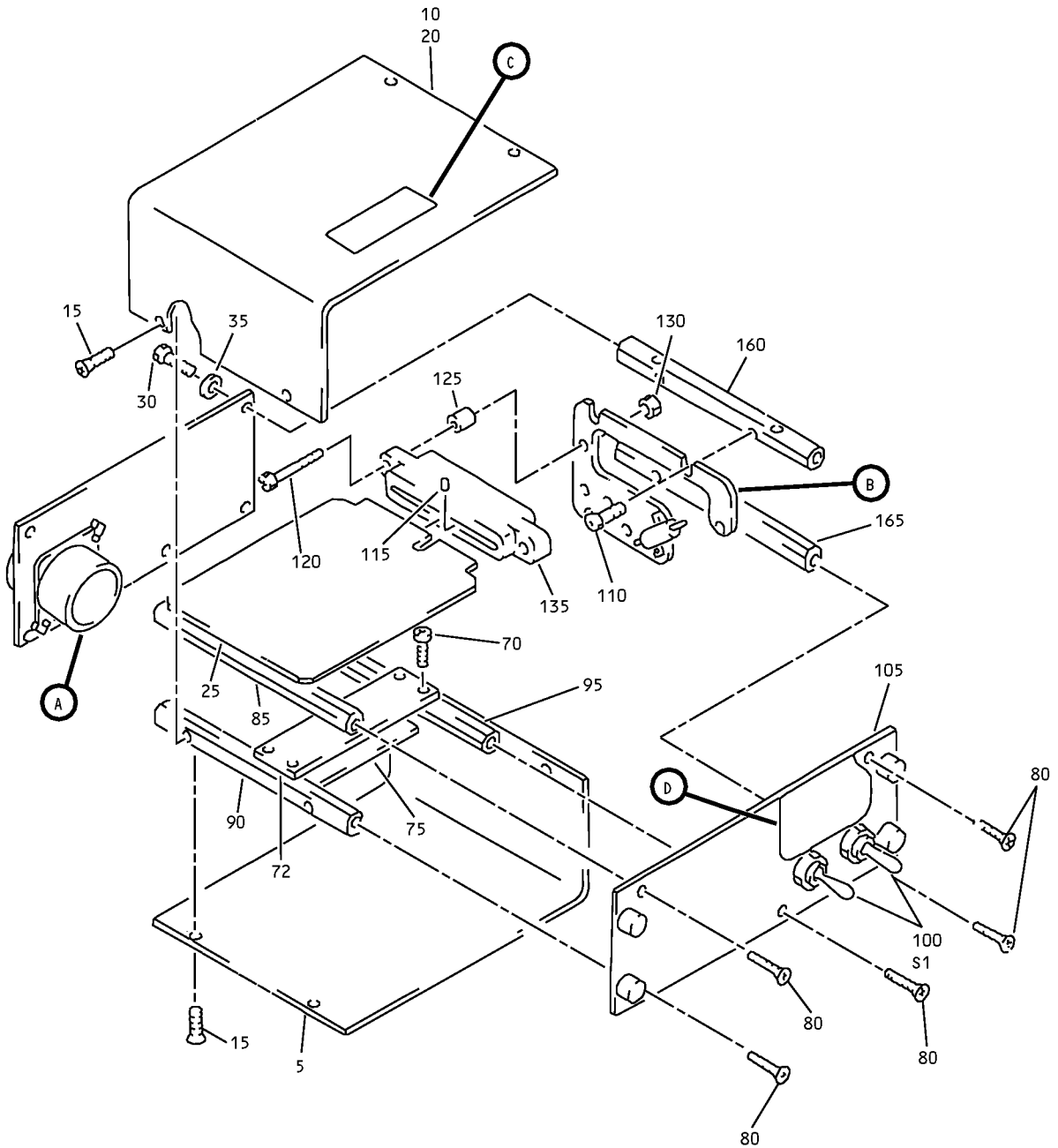
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69-37325-115 Flight Recorder and Mach Airspeed Warning Test Module Assembly  
IPL Figure 1 (Sheet 1 of 2)

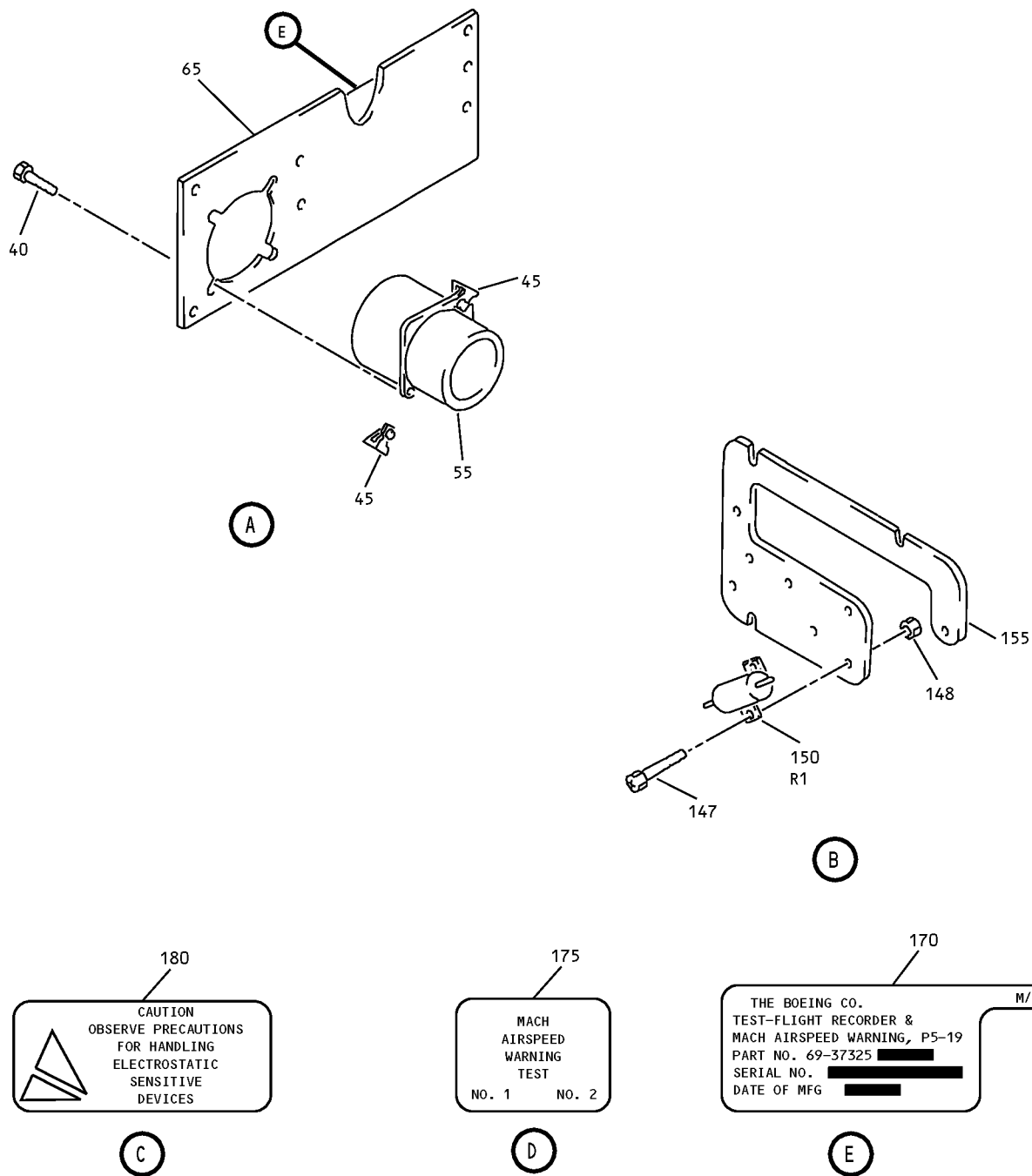
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69-37325-115 Flight Recorder and Mach Airspeed Warning Test Module Assembly  
IPL Figure 1 (Sheet 2 of 2)



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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
-1	69-37325-111		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (PRE COMPONENT SB 69-37325-31-02) (FOR DETAILS SEE FIG. 5)							A	RF
-1A	69-37325-112		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (PRE COMPONENT SB 69-37325-31-02) (FOR DETAILS SEE FIG. 6)							B	RF
-1B	69-37325-113		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (FOR DETAILS SEE FIG. 6)							C	RF
-1C	69-37325-114		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (PRE COMPONENT SB 69-37325-31-02) (FOR DETAIL SEE FIG. 6)							D	RF
-1D	69-37325-115		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (PRE COMPONENT SB 69-37325-31-02) (PRE COMPONENT SB 69-37325-31-03)							E	RF
-1E	69-37325-116		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (FOR DETAILS SEE FIG. 4)							F	RF
-1F	69-37325-117		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (FOR DETAILS SEE FIG. 2)							G	RF
-1G	69-37325-118		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (PRE COMPONENT SB 69-37325-31-02) (FOR DETAILS SEE FIG. 5)							H	RF
-1H	69-37325-119		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (PRE COMPONENT SB 69-37325-31-02) (FOR DETAILS SEE FIG. 2)							J	RF
-1J	69-37325-120		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (PRE COMPONENT SB 69-37325-31-02) (FOR DETAILS SEE FIG. 3)							K	RF
-1K	69-37325-121		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (FOR DETAILS SEE FIG. 5)							L	RF

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
-1L	69-37325-122									M	RF
-1M	69-37325-123									N	RF
-1N	69-37325-125									P	RF
-1P	69-37325-126									Q	RF
-1Q	69-37325-127									R	RF
-1R	69-37325-128									S	RF
-1S	69-37325-129									T	RF
-1T	69-37325-130									U	RF
-1U	69-37325-131									V	RF
-1V	69-37325-132										
-1W	69-37325-133										
-1X	69-37325-134										
-1Y	69-37325-135										
-1Z	69-37325-136										
-2	69-37325-137										
-2A	69-37325-138										

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1- -2B	69-78547-2		MODULE ASSY-FLIGHT RECORDER AND MACH AIRSPEED WARNING TEST P5-19 (FOR DETAILS SEE FIG. 3) (POST COMPONENT SB 69-37325-31- 03)							DA	RF
5	69-43948-22		. COVER							E	1
10	69-43948-23		. COVER ASSY							E	1
15	NAS514P440-4		. SCREW							E	8
20	69-43948-22		. . COVER							E	1
25	69-51810-22		. PRINTED CIRCUIT ASSY-PWR AND GND SENSING (A1) (OPT ITEM 25A) (V89954)							E	1
-25A	69-51810-33		. PRINTED CIRCUIT ASSY-PWR AND GND SENSING (A1) (OPT ITEM 25) (V89954)							E	1
-25B	69-78287-1		DELETED								
30	BACS126B06-5		. SCREW							E	5
35	MS35338-41		. WASHER							E	5
40	BACS12CB04-5		. SCREW (V06950) (SPEC BACS12CB04-5)							E	2
45	K19798-04		. NUT (V15653) (SPEC BACN10NW1) (OPT RMA4812-160-40 (V72962)) (OPT 293162 V60119))							E	2
-50	69-37325-64		. WIRE BUNDLE ASSY							E	1
55	ZZWAC1718-31P		. . CONNECTOR (V49367) (SPEC BACC45FN18-31P) (OPT C48-10R18-31P102 (V13556)) (OPT 48-10R18-31P300 (V02660))							E	1
-60	66143-2		. . TERMINAL-TAB (V00779)							E	AR
65	69-43948-12		. BACKPLATE							E	1

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
70	BACS12CB04-4		.	SCREW						E	4
72	69-63592-9		.	COMPONENT ASSY-TERM. BOARD (V89954)						E	1
75	MOD15512SP2		.	INSULATOR (V91833)						E	1
80	NAS514P632-5		.	SCREW						E	5
85	69-37268-14		.	STANDOFF						E	1
90	69-37325-70		.	STANDOFF						E	1
95	69-37325-71		.	STANDOFF						E	1
100	2PB11H58		.	SWITCH (V91929) (S1)						E	2
105	69-37325-73		.	BASEPLATE						E	1
110	BACS12CB04-4		.	SCREW						E	3
115	582507-1		.	PLUG-KEYING (V00779)						E	1
120	BACS12CB06-14		.	SCREW						E	2
125	NAS43DD1-17		.	SPACER						E	2
130	H10-06BAC		.	NUT (V15653) (SPEC BACN10JC06) (OPT RMLH9075-62W (V72962)) (OPT T6S632J (V11815)) (OPT VN303A62 (V92215)) (OPT 96-62 (V80539)) (OPT BRH10A06 (V52828)) (OPT BRH10A62 (V52828)) (OPT NS202101-62 (V80539))						E	2
135	582557-1		.	CONNECTOR (V00779)						E	1
140	BACS12CB06-14		.	SCREW						E	2
145	NAS43DD1-17		.	SPACER						E	2
147	BACS12BF02-5		.	SCREW						E	2
148	BACN10DN26		.	NUT						E	2
150	RH5-510-3PCT		.	RESISTOR-510 OHM, 3 PCT, 5W (V91637) (R1) (OPT ITEM 145A)						E	1

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1- -150A	3105M510-3PCT		.	RESISTOR-510 OHM, 3 PCT, 5W (V00213) (R1) (OPT ITEM 145)						E	1
152	BACS12CB04-4		.	SCREW						E	3
155	69-43948-17		.	PLATE-SPRT						E	1
160	69-37325-8		.	STANDOFF						E	1
165	69-37325-5		.	STANDOFF						E	1
170	BAC27DCC239		.	MARKER-ALUMINUM FOIL TEST- RECORDER AND MACH AIRSPEED WARNING TEST, P5-19						E	1
175	BAC27DCC933		.	MARKER-ALUMINUM FOIL MACH AIRSPEED WARNING TEST NO. 1, 2						E	1
180	BAC27EEX510		.	DECAL-CAUTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES						E	1

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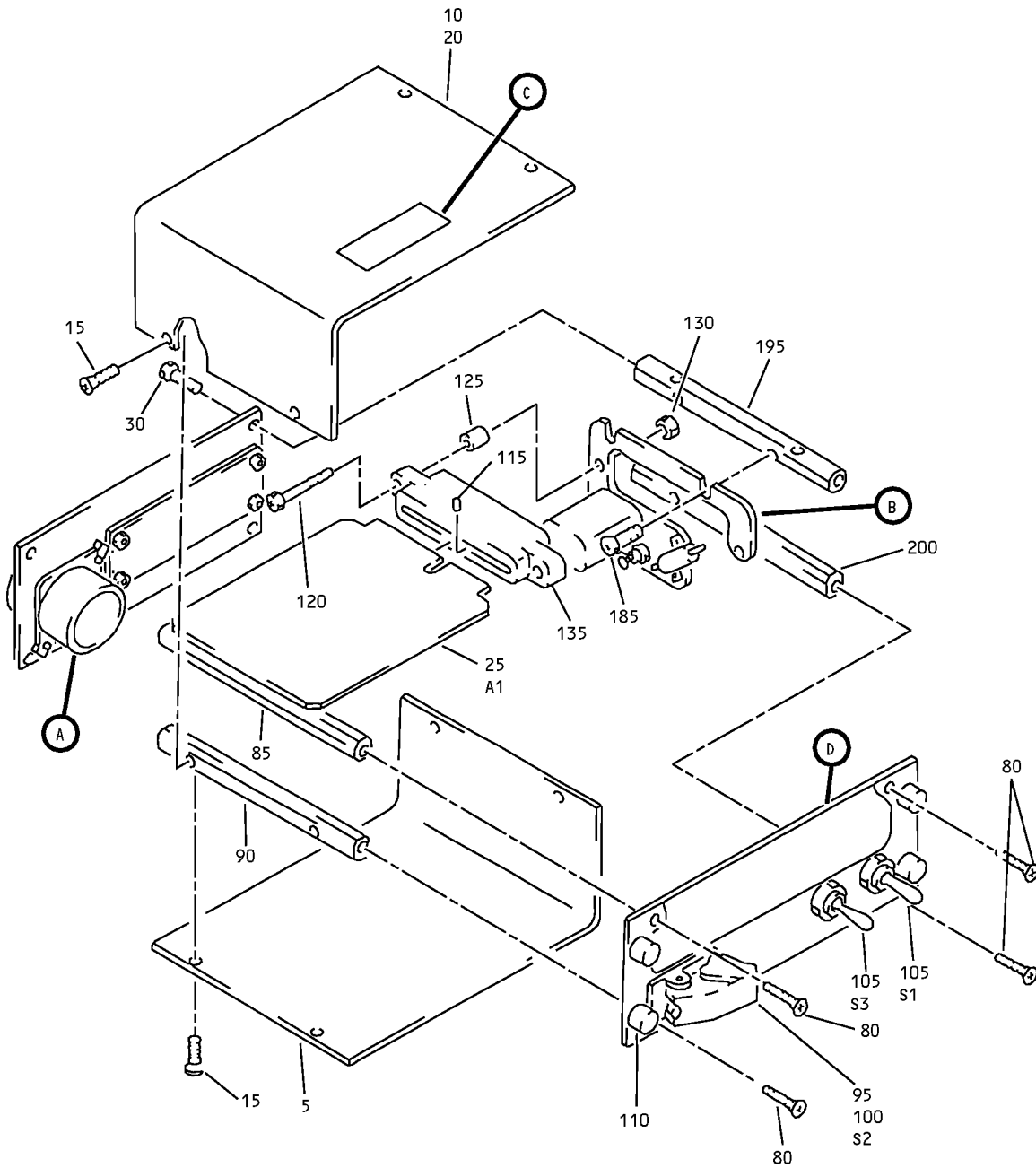
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COMPONENT MAINTENANCE MANUAL



69-37325-117,-119,-122 Flight Recorder and Mach Airspeed Warning Test Module Assembly  
IPL Figure 2 (Sheet 1 of 2)

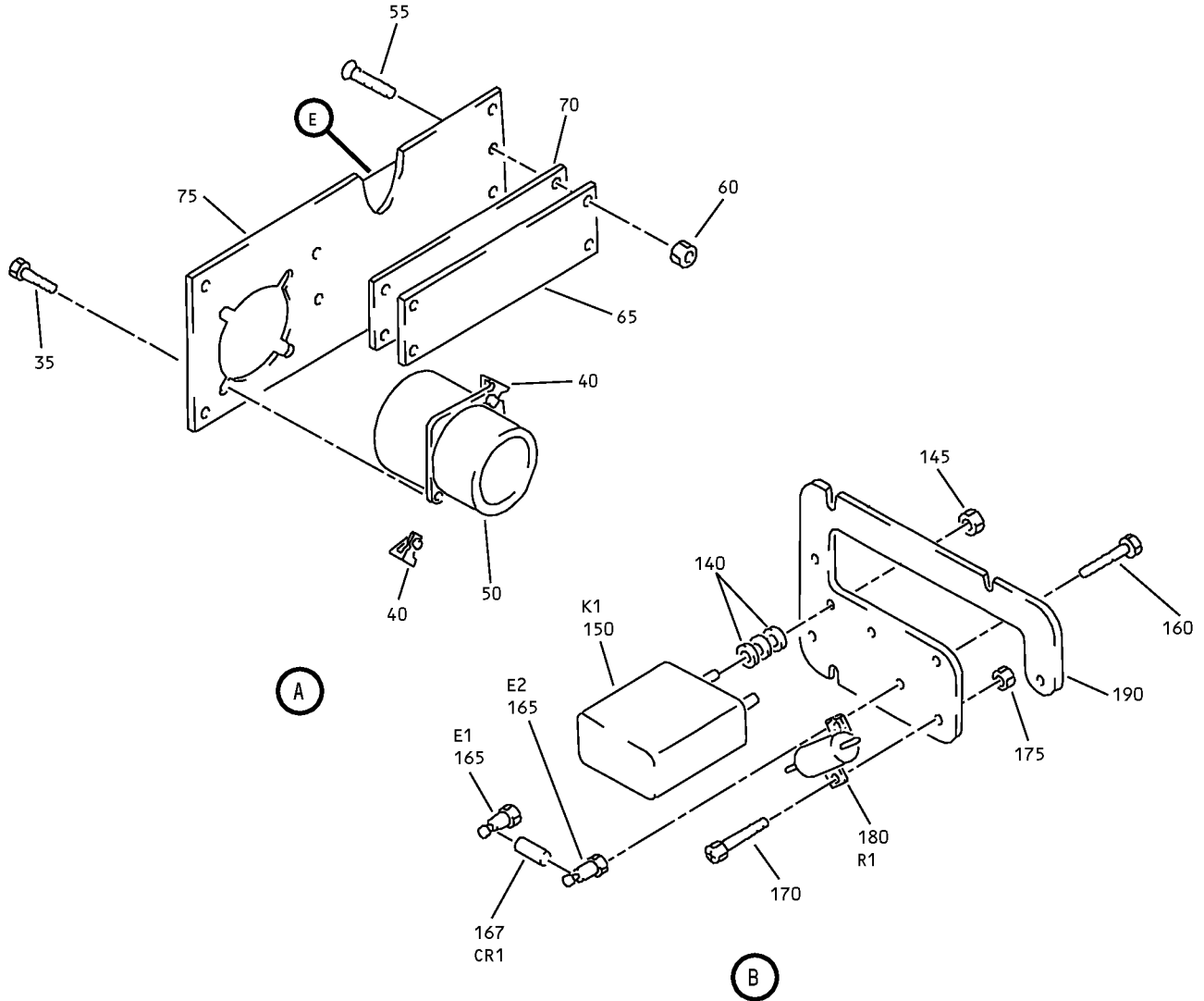
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215

CAUTION  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
SENSITIVE  
DEVICES

(C)

210

FLIGHT RECORDER		MACH AIRSPEED WARNING TEST	
TEST	NORMAL	NO. 1	NO. 2

(D)

205

M/W D483

THE BOEING CO.  
TEST-FLIGHT RECORDER &  
MACH AIRSPEED WARNING, P5-19  
PART NO. 69-37325 ██████████  
SERIAL NO. ██████████  
DATE OF MFG ██████████

(E)

69-37325-117,-119,-122 Flight Recorder and Mach Airspeed Warning Test Module Assembly  
IPL Figure 2 (Sheet 2 of 2)



## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
2-											
-1	69-37325-117									G	RF
-1A	69-37325-119									J	RF
-1B	69-37325-122									M	RF
-1C	69-37325-133										
5	69-43948-22									G, J, M	1
10	69-43948-23									G, J, M	1
15	NAS514P440-4									G, J, M	8
20	69-43948-22									G, J, M	1
25	69-51810-22									G, J, M	1
-25A	69-51810-33									G, J, M	1
-25B	69-78287-1										
30	BACS126B06-5									G, J, M	4
35	BACS12CB04-5									G, J, M	2
40	K19798-04									G, J, M	2
-45	69-37325-96									G, J, M	1
-45A	69-37325-110										1

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
2-											
50	ZZWAC1718-31P		.	.	CONNECTOR (V49367) (SPEC BACC45FN18-31P) (OPT C48-10R18-31P102 (V13556)) (OPT 48-10R18-31P300 (V02660)) (P1)					G, J, M	1
55	NAS514P440-5		.		SCREW					M	4
60	BACN10DN40		.		NUT					M	4
65	69-63592-9		.		COMPONENT ASSY-TERM. BOARD (V89954)					M	1
70	MOD15512SP2		.		INSULATOR (V91833)					M	1
75	69-43948-12		.		BACKPLATE					G, J, M	1
80	NAS514P632-5		.		SCREW					G, J, M	4
85	69-37268-14		.		STANDOFF					G, J, M	1
90	69-37268-13		.		STANDOFF					G, J, M	1
95	11170-1		.		GUARD-SWITCH (V72914)					G, J, M	1
100	MS24523-23		.		SWITCH-TOGGLE (S2)					G, J, M	1
105	2PB11H58		.		SWITCH (V91929) (S1,S3)					G, J, M	2
110	69-37325-80		.		BASEPLATE ASSY					G, J, M	1
115	582507-1		.		PLUG-KEYING (V00779)					G, J, M	1
120	BACS12CB06-14		.		SCREW					G, J, M	2
125	NAS43DD1-17		.		SPACER					G, J, M	2
130	H10-06BAC		.		NUT (V15653) (SPEC BACN10JC06) (OPT RMLH9075-62W (V72962)) (OPT T6S632J (V11815)) (OPT VN303A62 (V92215)) (OPT 96-62 (V80539)) (OPT BRH10A06 (V52828)) (OPT BRH10A62 (V52828)) (OPT NS202101-62 (V80539))				G, J, M	2	

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
2-											
135	582557-1		.	CONNECTOR						G, J, M	1
				(V00779)							
140	AN960PD6		.	WASHER						G, J, M	6
145	H10-06BAC		.	NUT						G, J, M	2
				(V15653)							
				(SPEC BACN10JC06)							
				(OPT RMLH9075-62W (V72962))							
				(OPT T6S632J (V11815))							
				(OPT VN303A62 (V92215))							
				(OPT 96-62 (V80539))							
				(OPT BRH10A06 (V52828))							
				(OPT BRH10A62 (V52828))							
				(OPT NS202101-62 (V80539))							
150	BACR13CF4		.	RELAY						G, J, M	1
				(K1)							
160	BACS12BE02-3		.	SCREW						G, J, M	2
165	1491A		.	TERMINAL-INSULATED						G, J, M	2
				(V88245)							
				(E1,E2)							
				(OPT ITEM 165A)							
-165A	1625-4-12		.	TERMINAL-INSULATED						G, J, M	2
				(V88245)							
				(E1,E2)							
				(OPT ITEM 165)							
167	1N4384		.	DIODE						G, J, M	1
				(CR1)							
170	BACS12BF02-5		.	SCREW						G, J, M	2
175	BACN10DN26		.	NUT						J, M	1
180	RH5-510-3PCT		.	RESISTOR-510 OHM, 3 PCT, 5W						G	1
				(V91637)							
				(R1)							
				(OPT ITEM 180A)							
-180A	3105M510-3PCT		.	RESISTOR-510 OHM, 3 PCT, 5W						G	1
				(V00213)							
				(R1)							
				(OPT ITEM 180)							
-180B	RER60F2210R		.	RESISTOR-221 OHM, 1 PCT, 5W						J, M	1
				(R1)							
185	BACS12CB04-4		.	SCREW						G, J, M	3
190	69-43948-17		.	PLATE-SPRT						G, J, M	1

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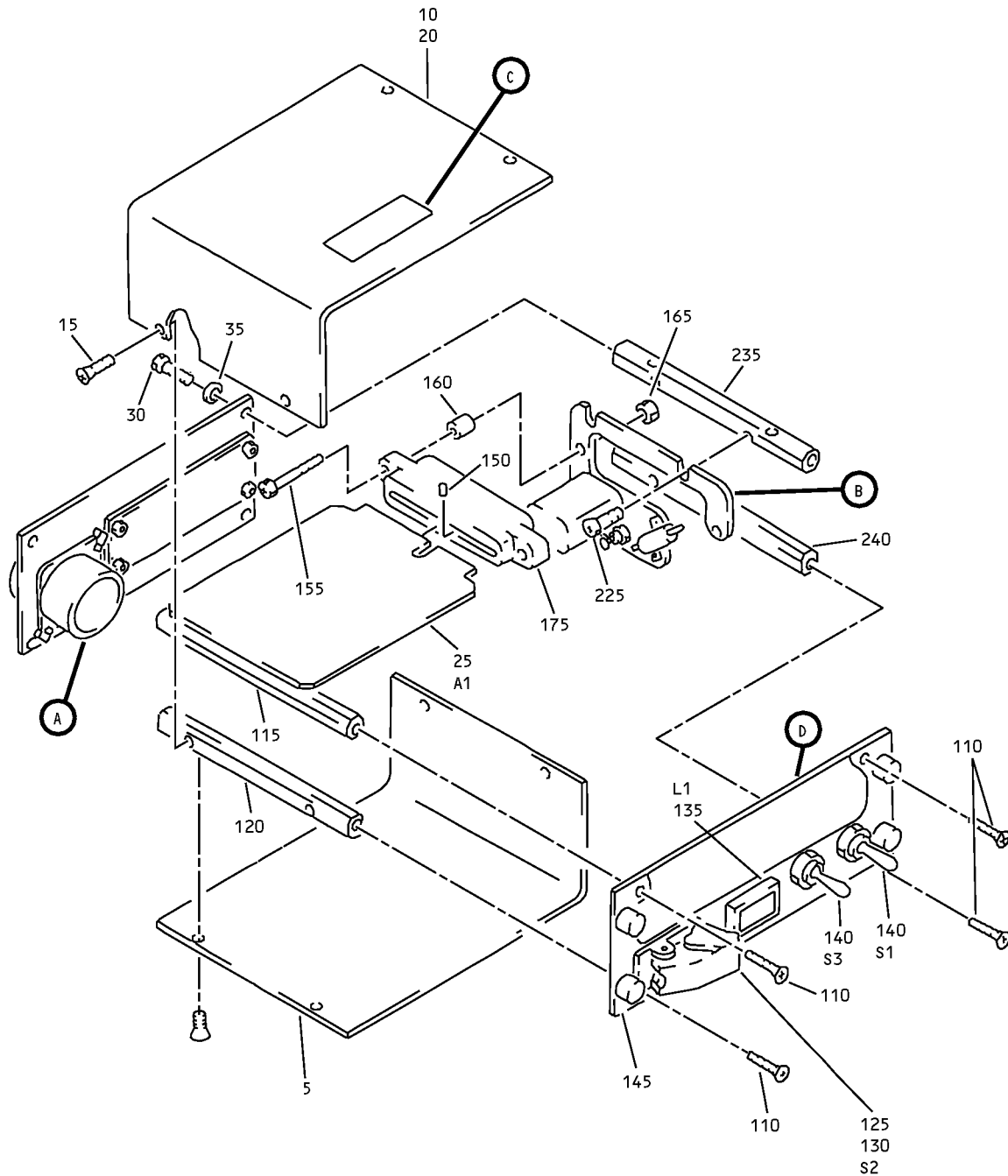


## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY	
			1	2	3	4	5	6	7			
2-												
195	69-37325-8									. STANDOFF	G, J, M	1
200	69-37325-5									. STANDOFF	G, J, M	1
205	BAC27DCC239									. MARKER-ALUMINUM FOIL	G, J, M	1
210	BAC27DCC1061									. MARKER-ALUMINUM FOIL	G, J, M	1
215	BAC27EEX510									. DECAL (STATIC SENSITIVE PART)	G, J, M	1

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69-37325-120,-125,-126,-127,-129,-130,-131 Flight Recorder and Mach Airspeed Warning Test Module Assembly

IPL Figure 3 (Sheet 1 of 2)

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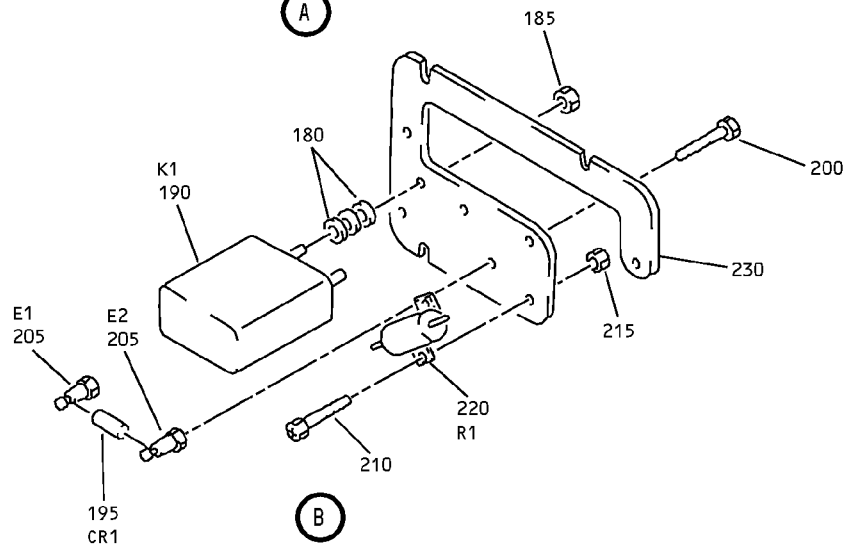
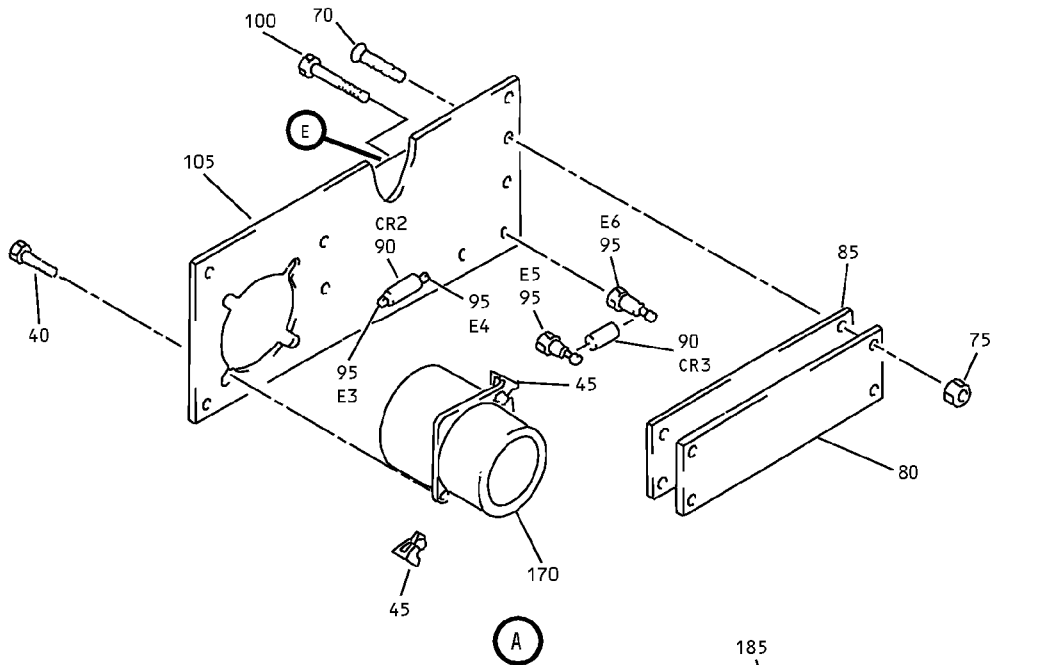
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255

CAUTION  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
SENSITIVE  
DEVICES

(C)

245

FLIGHT RECORDER		MACH AIRSPEED WARNING	
TEST	NORMAL	NO. 1	NO. 2

(D)

250

THE BOEING CO. M/W D483  
 TEST-FLIGHT RECORDER &  
 MACH AIRSPEED WARNING, P5-19  
 PART NO. 69-37325  
 SERIAL NO.  
 DATE OF MFG

(E)

69-37325-120,-125,-126,-127,-129,-130,-131 Flight Recorder and Mach Airspeed Warning Test Module  
 Assembly  
 IPL Figure 3 (Sheet 2 of 2)

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
3-											
-1	69-37325-120									K	RF
-1A	69-37325-125									P	RF
-1B	69-37325-126									Q	RF
-1C	69-37325-127									R	RF
-1D	69-37325-129									T	RF
-1E	69-37325-130									U	RF
-1F	69-37325-131									V	RF
-1G	69-37325-132										
-1H	69-37325-134										
-1J	69-37325-135										
-1K	69-37325-137										
5	69-43948-19									K, P-R, T-V	1
10	69-43948-20									K, P-R, T-V	1
15	NAS514P440-4									K, P-R, T-V	8
20	69-43948-19									K, P-R, T-V	1
25	69-51810-22									K, T	1

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
3-											
-25A	69-51810-33		.							K, T, U	1
-25B	69-51810-20		.							Q, R	1
-25C	69-51810-32		.							Q, R	1
-25D	69-51810-18		.							P	1
-25E	69-51810-32		.							V	1
-25F	69-78287-1										
30	NAS1801-06-5		.							K, Q, T, V	, 4
-30A	BACS12CB06-5		.							P, R, U	4
35	MS35338-41		.							K, P-R, T-V	4
40	NAS1801-04-5		.							K, Q, T, V	, 2
-40A	BACS12CB04-5		.							P, R, U	2
45	K19798-04		.							K, P-R, T-V	2
-50	69-37325-98		.							K	1
-50A	69-37325-55		.							P, R, U	1

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY									
			1	2	3	4	5	6	7											
3-																				
-50B	69-37325-107		.	W	I	R	E	B	U	N	D	L	E	A	S	S	Y	Q, T, V	1	
-55	ZZWAC1718-31P		.	.	C	O	N	N	E	C	T	O	R				Q, T, V	1		
-60	582557-1		.	.	C	O	N	N	E	C	T	O	R				Q, T, V	1		
-65	66143-2		.	.	T	E	R	M	I	N	A	L	-	T	A	B		K, P-R, T-V	AR	
70	NAS514P440-5		.	S	C	R	E	W									K	4		
75	BACN10DN40		.	N	U	T											K	4		
80	69-63592-9		.	C	O	M	P	O	N	E	N	T					K	1		
85	MOD15512SP2		.	I	N	S	U	L	A	T	O	R					K	1		
90	1N4384		.	D	I	O	D	E									Q, T, V	2		
95	1491A		.	T	E	R	M	I	N	A	L	-	I	N	S	U	L	A	T	E
-95A	1625-4-12		.	T	E	R	M	I	N	A	L	-	I	N	S	U	L	A	T	E
100	BACS12BE02-3		.	S	C	R	E	W									K, P-R, T-V	4		
105	69-43948-12		.	B	A	C	K	P	L	A	T	E					K, P-R, T-V	1		
110	NAS514P632-5		.	S	C	R	E	W									KP-RT-V	4		
115	69-37268-14		.	S	T	A	N	D	O	F	F						K, P-R, T-V	1		
120	69-37268-13		.	S	T	A	N	D	O	F	F						K, P-R, T-V	1		

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
3-											
125	11170-1		.	GUARD-SWITCH (V72914)						K, P-R, T-V	1
130	MS24523-23		.	SWITCH (S2)						K, P-R, T-V	1
135	10-61803-12		.	LIGHT-IND (L1)						K, P-R, T-V	1
140	2PB11H58		.	SWITCH (V91929) (S1,S3)						K, P-R, T-V	2
145	69-37325-18		.	BASEPLATE						P-R, T-V	1
-145A	69-37325-106		.	BASEPLATE						K	1
150	582507-1		.	PLUG-KEYING (V00779)						K, P-R, T-V	1
155	BACS12CB06-14		.	SCREW						P, R, U	2
-155A	NAS1801-06-14		.	SCREW						K, Q, T, V	2
160	NAS43DD1-17		.	SPACER						K, P-R, T-V	2
165	H10-06BAC		.	NUT (V15653) (SPEC BACN10JC06) (OPT RMLH9075-62W (V72962)) (OPT T6S632J (V11815)) (OPT VN303A62 (V92215)) (OPT 96-62 (V80539)) (OPT BRH10A06 (V52828)) (OPT BRH10A62 (V52828)) (OPT NS202101-62 (V80539))						K, P-R, T-V	2
170	ZZWAC1718-31P		.	CONNECTOR (V49367) (SPEC BACC45FN18-31P) (OPT C48-10R18-31P102 (V13556)) (OPT 48-10R18-31P300 (V02660)) (P1)						K, P, R, U	1
175	582557-1		.	CONNECTOR (V00779)						K, P, R, U	1
180	AN960PD6		.	WASHER						P-R, T-V	6
-180A	AN960JD6		.	WASHER						K	6

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY	
			1	2	3	4	5	6	7			
3- 185	H10-06BAC		.	NUT (V15653) (SPEC BACN10JC06) (OPT RMLH9075-62W (V72962)) (OPT T6S632J (V11815)) (OPT VN303A62 (V92215)) (OPT 96-62 (V80539)) (OPT BRH10A06 (V52828)) (OPT BRH10A62 (V52828)) (OPT NS202101-62 (V80539))							K, P-R, T-V	2
190	BACR13CF4		.	RELAY (K1)							K, P-R, T-V	1
195	1N4384		.	DIODE (CR1)							K, P-R, T-V	1
200	BACS12BE02-3		.	SCREW							K, P-R, T-V	2
205	1491A		.	TERMINAL-INSULATED (V88245) (E1,E2) (OPT ITEM 205C)							K, P, R, U	2
-205A	1491A		.	TERMINAL-INSULATED (V88245) (E1,E2) (OPT ITEM 205B)							Q, T, V	2
-205B	1625-4-12		.	TERMINAL-INSULATED (V88245) (E1,E2) (OPT ITEM 205A)							Q, T, V	2
-205C	1625-4-12		.	TERMINAL-INSULATED (V88245) (E1,E2) (OPT ITEM 205)							K, P, R, U	2
210	BACS12BF02-5		.	SCREW							K, P-R, T-V	2
215	BACN10DN26		.	NUT							K, P-R, T-V	2
220	RER60F2210R		.	RESISTOR-221 OHM, 1 PCT, 5W (R1)							Q, T, V	1
-220A	RH5-510-3PCT		.	RESISTOR-510 OHM, 3 PCT, 5W (V91637) (R1) (OPT ITEM 265B)							K, P, R, U	1

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
3- -220B	3105M510-3PCT		.	RESISTOR-510 OHM, 3 PCT, 5W (V00213) (R1) (OPT ITEM 265A)						K, P, R, U	1
225	NAS1801-04-4		.	SCREW						K, Q, T, V	3
-225A	BACS12CB04-4		.	SCREW						P, R, U	3
230	69-43948-17		.	PLATE-SPRT						K, P-R, T-V	1
235	69-37325-8		.	STANDOFF						K, P-R, T-V	1
240	69-37325-5		.	STANDOFF						K, P-R, T-V	1
245	BAC27DCC572		.	MARKER-ALUMINUM FOIL						K, P-R, T-V	1
250	BAC27DCC239		.	MARKER-ALUMINUM FOIL,						K, P-R, T-V	1
255	BAC27EEX510		.	DECAL (STATIC SENSITIVE PART)						K, P-R, T-V	1

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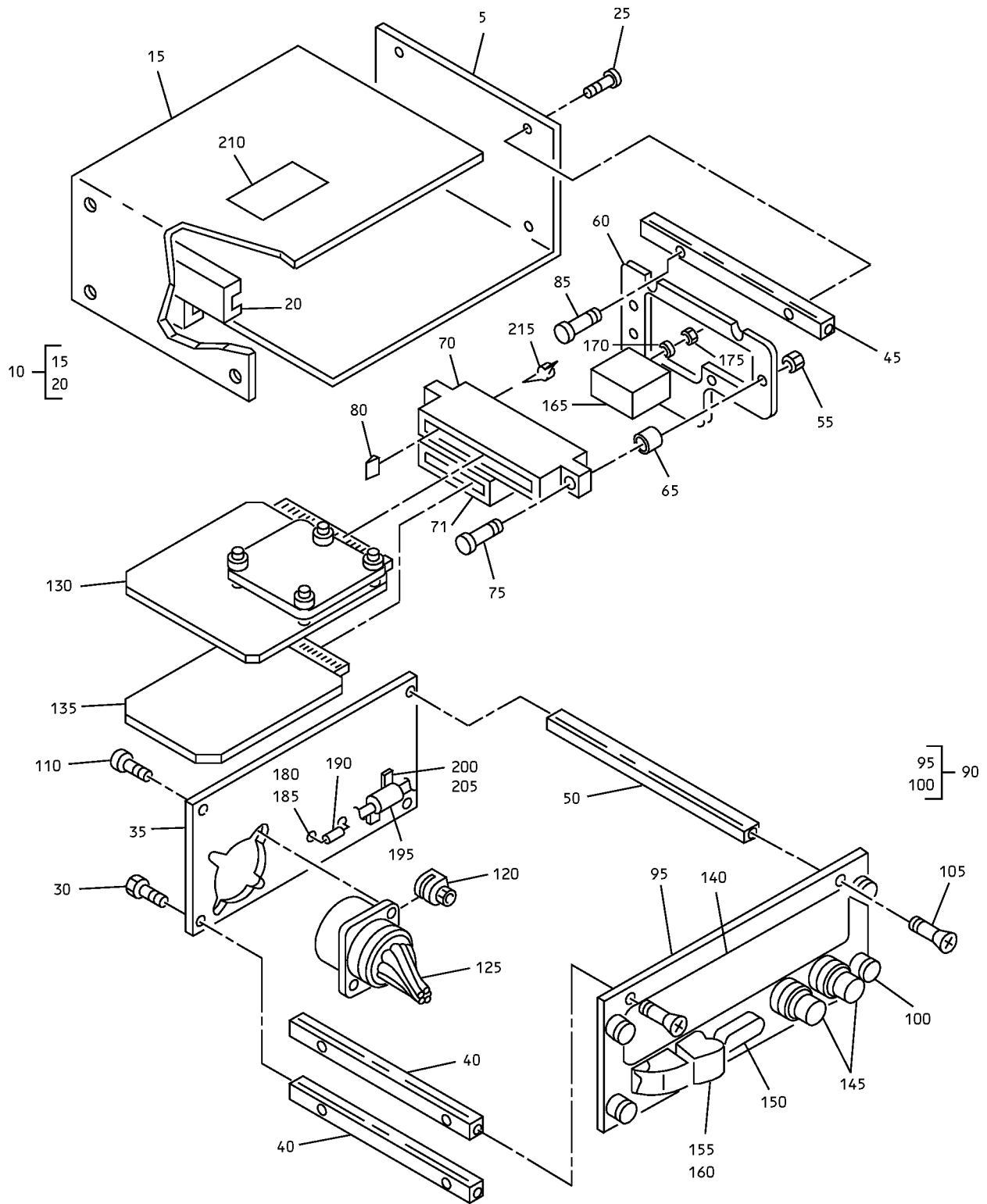
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69-37325-116 Flight Recorder and Mach Airspeed Warning Test Module Assembly  
IPL Figure 4

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
4-											
-1	69-37325-116									F	RF
5	69-37325-83									F	1
10	69-43948-24									F	1
15	69-43948-25									F	1
20	69-43948-26									F	1
25	NAS514P440-4									F	8
30	BACS12CB06-5									F	4
35	69-43948-29									F	1
40	69-37268-13									F	2
45	69-37325-78									F	1
50	69-37325-77									F	1
55	BACN10JC06									F	4
60	69-43948-28									F	1
65	NAS43DD1-17									F	4
70	582557-1									F	1
71	582551-1									F	1
75	BACS12CB06-14									F	4
80	582507-1									F	2
85	BACS12CB04-4									F	3
90	69-37325-75									F	1
95	BACP10U0262G									F	1
100	BACS21DD1G									F	4
105	NAS514P632-5									F	4
110	BACS12CB04-5									F	2
115	BACC45FN18-31P									F	1
120	BACN10NW1									F	2
125	69-37325-76									F	1

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
4-											
130	69-51810-14										
130A	69-51810-22									F	1
-130B	69-51810-33									F	1
135	69-71571-3									F	1
140	BAC27DCC572									F	1
145	2PB11H58									F	2
150	BCREF2579									F	1
155	MS24523-23									F	1
160	11170-1									F	1
165	BACR13CF4A									F	1
170	AN960PD6									F	6
175	BACN10JC06									F	2
180	1491A									F	2
-180A	1625-4-12									F	2
185	BACS12BE02-3									F	2
190	1N4384									F	1
195	RH5-510-3PCT									F	1
-195A	3105M510-3PCT									F	1
200	BACS12BE02-5									F	2
205	BACN10DN26									F	2

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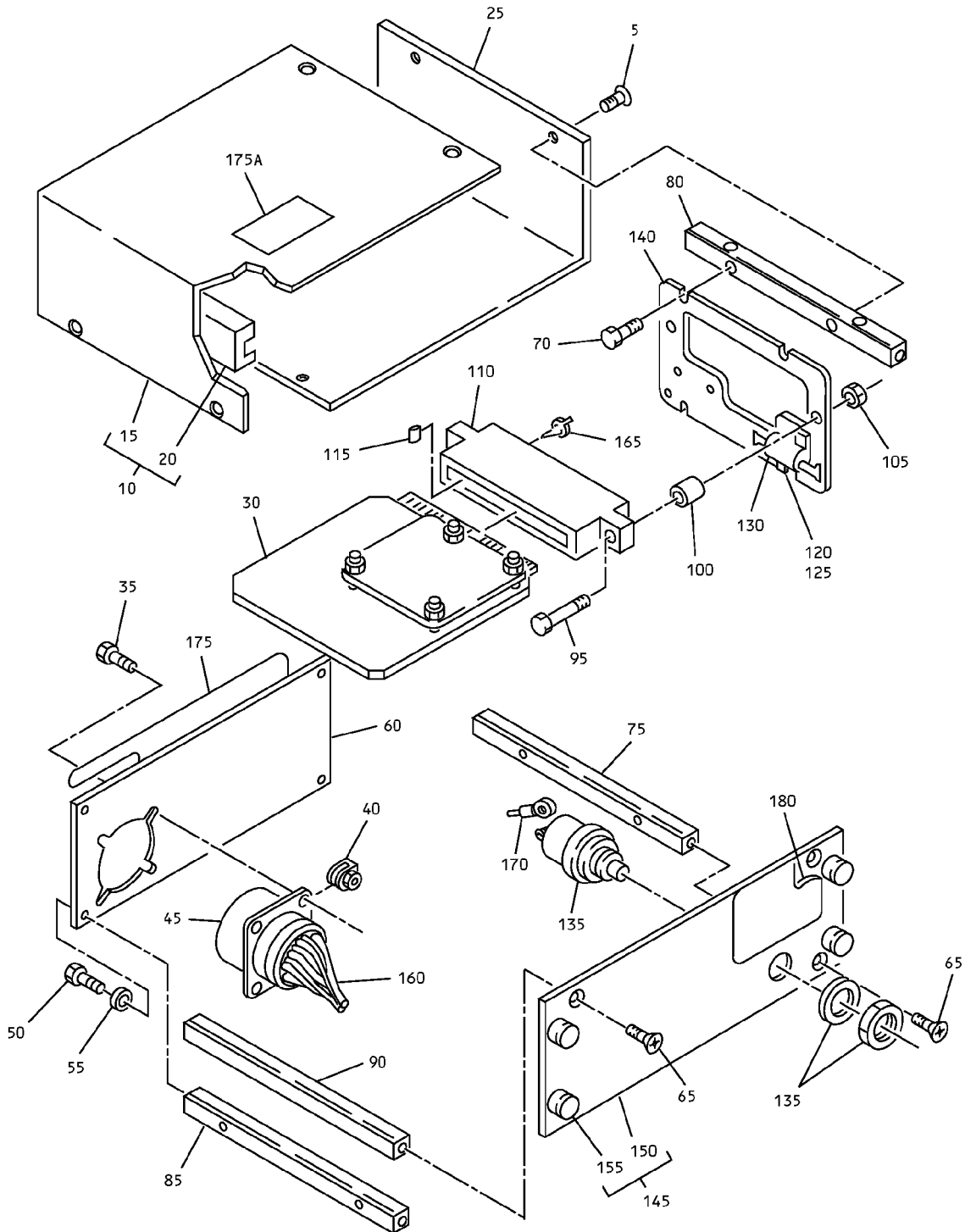


## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
4-											
210	BAC27EEX510									F	1
215	66143-2									F	1

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# COMPONENT MAINTENANCE MANUAL



69-37325-111

Flight Recorder and Mach Airspeed Warning Test Module Assembly  
IPL Figure 5 (Sheet 1 of 2)

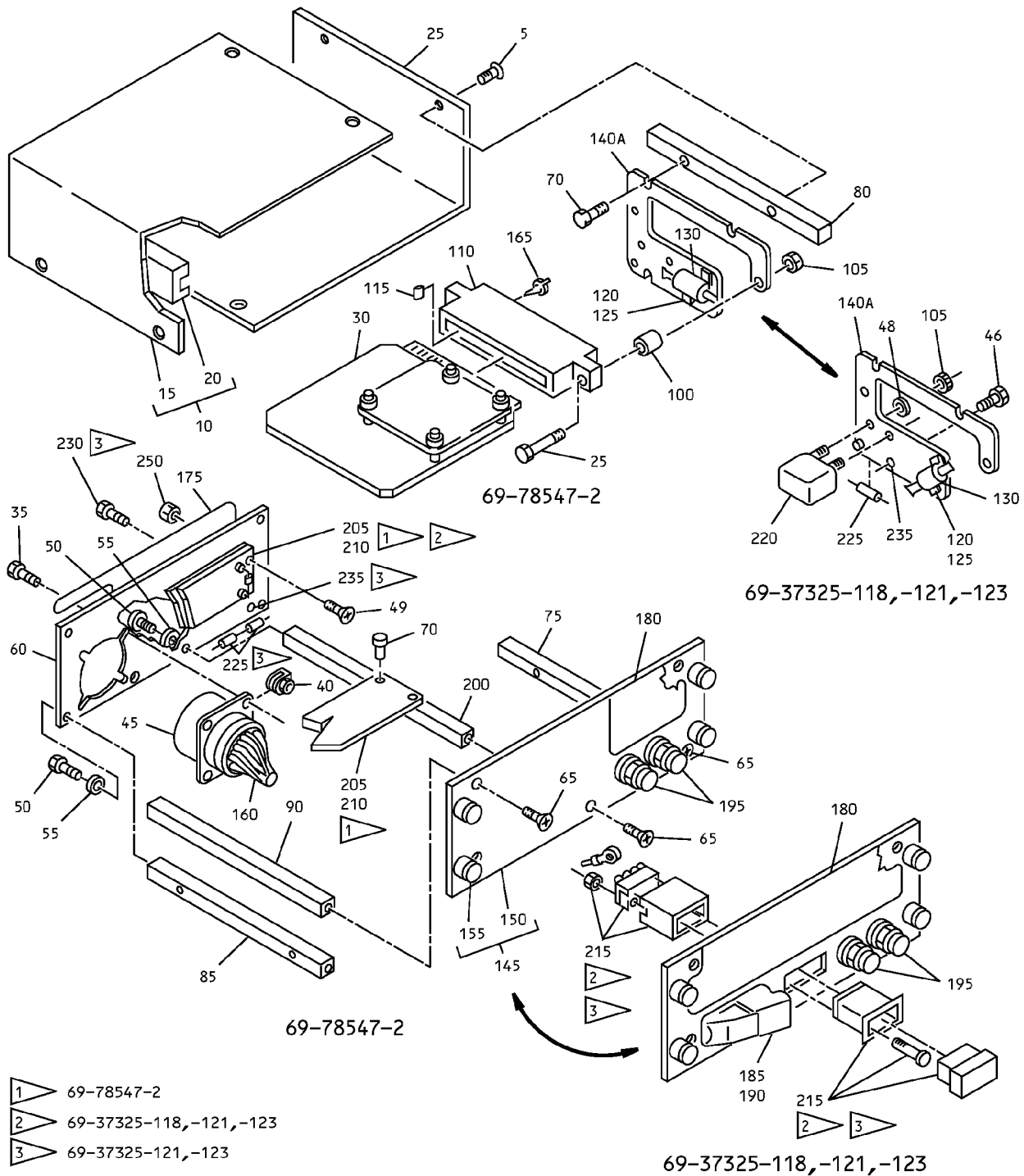
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- 1 69-78547-2
- 2 69-37325-118, -121, -123
- 3 69-37325-121, -123

69-37325-118, -121, -123  
69-78547-2

Flight Recorder and Mach Airspeed Warning Test Module Assembly  
IPL Figure 5 (Sheet 2 of 2)

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
5-											
-1	69-37325-111									A	RF
-1A	69-37325-118									H	RF
-1B	69-37325-121									L	RF
-1C	69-37325-123									N	RF
-1D	69-78547-2									DA	RF
5	NAS514P440-4									A, H, L, N, DA	8
10	69-43948-20									A, H, L, N	1
-10A	69-43948-23									DA	1
15	69-43948-19									A, H, L, N	1
-15A	69-43948-22									DA	1
20	69-43948-21									A, H, L, N, DA	1
25	69-43948-19									A, H, L, N	1
-25A	69-43948-22									DA	1
30	69-51810-14									L	1
-30A	69-51810-22									A, H, L, N, DA	1
-30B	69-51810-33									A, H, N, DA	1
35	BACS12CB04-5									A, H, DA	2

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
5-											
-35A	NAS1801-04-5		.	S	C	R	E	W		L, N	2
40	BACN10NW1		.	C	L	I	P	N	U	A, H, L, N, DA	2
45	BACC45FN18-31P		.	C	O	N	N	E	C	A, H, L, N, DA	1
50	BACS12CB06-5		.	S	C	R	E	W		A, H	4
-50A	BACS12CB06-5		.	S	C	R	E	W		DA	5
-50B	NAS1801-06-5		.	S	C	R	E	W		N	4
55	MS35338-41		.	W	A	S	H	E	R	A, H, L, N	4
-55A	MS35338-41		.	W	A	S	H	E	R	DA	5
60	69-43948-12		.	B	A	C	K	P	L	A, H, L, N, DA	1
65	NAS514P632-5		.	S	C	R	E	W		H, L, N	4
-65A	NAS514P632-5		.	S	C	R	E	W		DA	5
70	BACS12CB04-4		.	S	C	R	E	W		A	4
-70A	BACS12CB04-4		.	S	C	R	E	W		DA	7
-70B	BACS12CB04-4		.	S	C	R	E	W		H	3
-70C	NAS1801-04-4		.	S	C	R	E	W		N	3
75	69-37325-5		.	S	T	A	N	O	F	A, H, L, N, DA	1
80	69-37325-8		.	S	T	A	N	O	F	A, H, L, N, DA	1
85	69-37268-13		.	S	T	A	N	O	F	A, H, L, N	1
-85A	69-37325-70		.	S	T	A	N	O	F	DA	1
90	69-37268-14		.	S	T	A	N	O	F	A, H, L, N, DA	1
95	BACS12CB06-14		.	S	C	R	E	W		AH, DA	2
-95A	NAS1801-06-14		.	S	C	R	E	W		L, N	2
100	NAS43DD1-17		.	S	P	A	C	E	R	A, H, L, N, DA	2
105	BACN10JC06		.	N	U	T				A, DA	2
-105A	BACN10JC06		.	N	U	T				H, L, N	4
110	582557-1		.	C	O	N	N	E	C	A, H, L, N, DA	1
				(V00779)							

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE	USAGE CODE	UNITS PER ASSY
5-					
115	582507-1		. KEYING PLUG (V00779)	A, H, L, N, DA	1
120	BACS12BE02-5		. SCREW	A, DA	2
-120A	BACS12BF02-5		. SCREW	H, L, N	2
125	BACN10DN26		. NUT	A, H, L, N, DA	2
130	RH5-510-3PCT		. RESISTOR-510 OHMS, + /-3%,5W (V91637) (PREFERED)	A, H, L, N, DA	1
-130A	3105M510-3PCT		. RESISTOR-510OHMS, + /-3%,5W (V00213) (OPT ITEM 130)	A, H, L, N, DA	1
-130B	RER60F2210R		. RESISTOR-221 OHMS, + /-1%,5W	L	1
135	W20161-03		. SWITCH (V81640)	A	1
140	69-43948-14		. SUPPORT PLATE	A	1
-140A	69-43948-17		. SUPPORT PLATE	H, L, N, DA	1
145	69-37325-45		. BASEPLATE ASSY	A	1
-145A	69-37325-73		. BASEPLATE ASSY	DA	1
-145B	69-37325-18		. BASEPLATE ASSY	H, L, N	1
150	BACP10U0225G		. . BASEPLATE	A, H, L, N, DA	1
155	BACS21DD1G		. . STUD ASSY	A, H, L, N, DA	4
-160	69-37325-44		. WIRE BUNDLE	A	1
-160A	69-37325-98		. WIRE BUNDLE	H	1
-160B	69-37325-107		. WIRE BUNDLE	L	1
-160C	69-37325-124		. WIRE BUNDLE	N	1
-160D	69-37325-64		. WIRE BUNDLE (REWORKED BY SB 69-37325-31-03)	DA	1
165	66143-2		. TAB TERMINAL (V00779)	A, H, L, N	AR
170	640024-1		. TERMINAL (V00779)	A	3

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY	
			1	2	3	4	5	6	7			
5-												
175	BAC27DCC239		.							ALUMINUM FOIL MARKER	A, H, L, N, DA	1
175A	BAC27EEX510		.							DECAL	A, H, L, N, DA	1
180	BAC27DEX1347		.							ALUMINUM FOIL MARKER	A	1
-180A	BAC27DEX933		.							ALUMINUM FOIL MARKER	DA	1
-180B	BAC27DCC572		.							ALUMINUM FOIL MARKER	H, L, N	1
185	MS24523-23		.							SWITCH-TOGGLE	H, L, N	1
190	11170-1		.							SWITCH GUARD (V72914)	H, L, N	1
195	2PB11H58		.							SWITCH-PUSHBUTTON (V91929)	H, L, N, DA	2
200	69-37325-71		.							STANDOFF	DA	1
205	69-63592-9		.							COMPONENT ASSY (V89954)	H, N, DA	1
210	MOD15512SP2		.							INSULATOR (V91833)	H, N, DA	1
215	BCREF2579		.							LIGHT-IND (V81590) (318-630-1001-008) (SPEC 10-61803-12)	H, L, N	1
220	BACR13CF4		.							RELAY	H, L, N	1
225	1N4384		.							DIODE	H	1
-225A	1N4384		.							DIODE	L, N	3
230	BACS12BE02-3		.							SCREW	L, N	6
-230A	BACS12BE02-3		.							SCREW	H	2
235	1419A		.							TERMINAL (OPT ITEM 235B)	H	2
-235A	1419A		.							TERMINAL (OPT ITEM 235C)	N	6
-235B	1625-4-12		.							TERMINAL (OPT ITEM 235)	H	2
-235C	1625-4-12		.							TERMINAL (OPT ITEM 235A)	N	6
240	AN960PD6		.							WASHER	H, L, N	6
245	NAS514P440-5		.							SCREW	H, N	4

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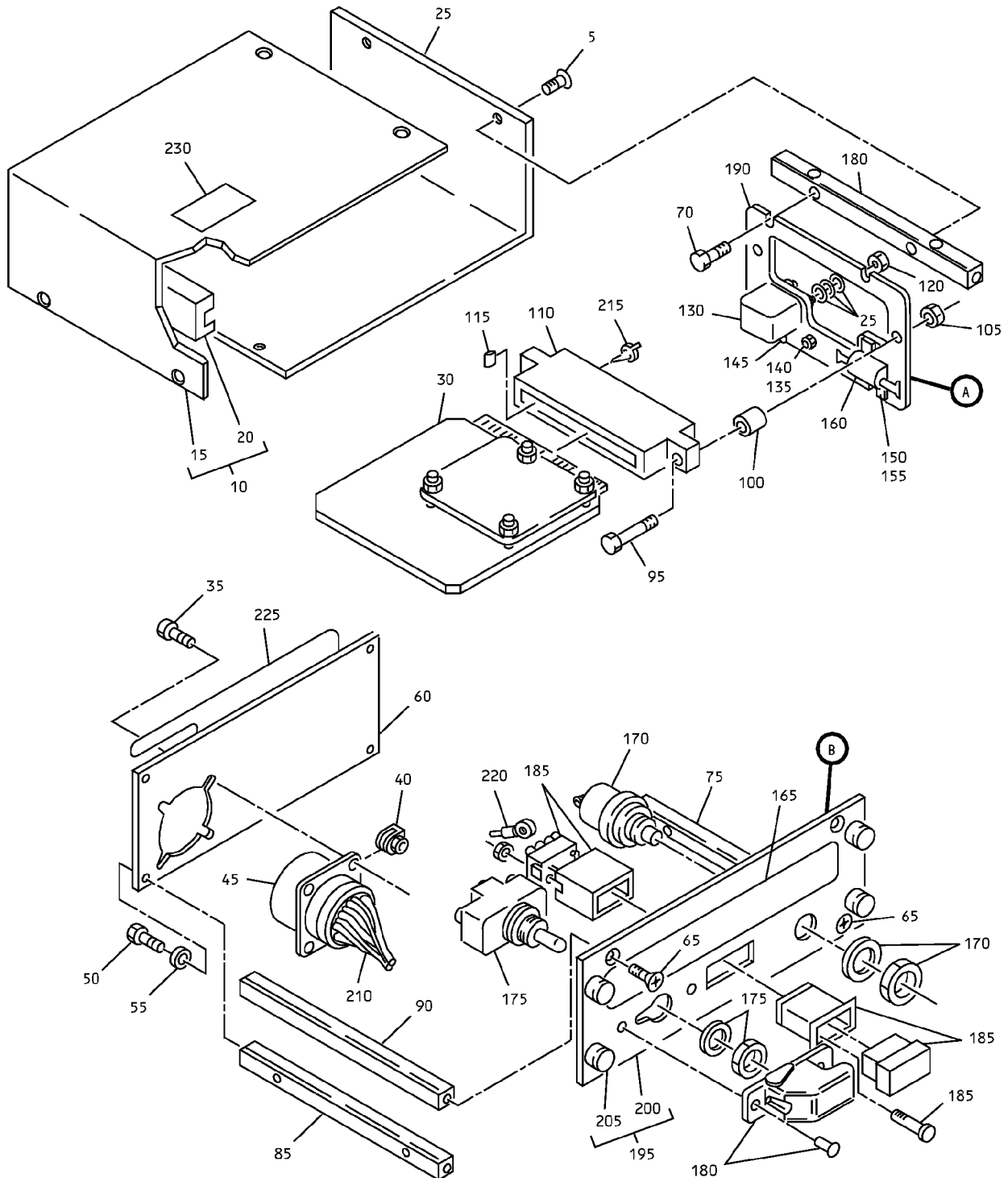


## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY	
			1	2	3	4	5	6	7			
5- 250	BACN10DN40									. NUT	H, N	4

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69-37325-112,-113,-114,-128

Flight Recorder and Mach Airspeed Warning Test Module Assembly  
IPL Figure 6 (Sheet 1 of 2)

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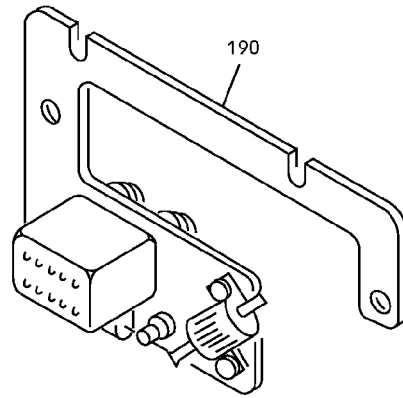
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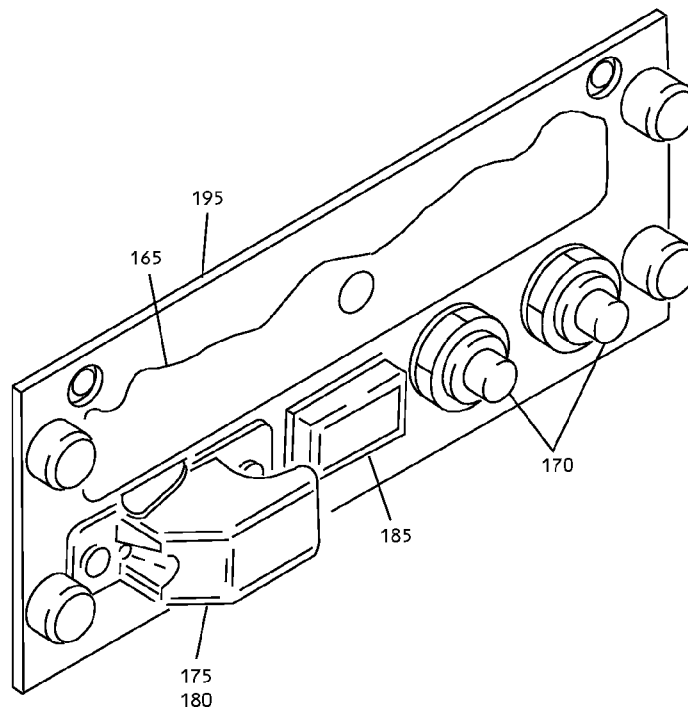
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A



B

69-37325-113

Flight Recorder and Mach Airspeed Warning Test Module Assembly  
IPL Figure 6 (Sheet 2 of 2)

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
6-											
-1	69-37325-112									B	RF
-1A	69-37325-113									C	RF
-1B	69-37325-114									D	RF
-1C	69-37325-128									S	RF
5	NAS514P440-4									B, C, D, S	8
10	69-43948-20									B, C, D, S	1
15	69-43948-19									B, C, D, S	1
20	69-43948-21									B, C, D, S	1
25	69-43948-19									B, C, D, S	1
30	69-51810-14									C	1
-30A	69-51810-20									B	1
-30B	69-51810-22									D, S	1
-30C	69-51810-33									D, S	1
-30D	69-51810-32									B	1

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
6-											
35	BACS12CB04-5		.							B, C, D, S	2
40	BACN10NW1		.							B, C, D, S	2
45	BACC45FN18-31P		.							B, C, D, S	1
50	BACS12CB06-5		.							B, C, D, S	4
55	MS35338-41		.							B, C, D, S	4
60	69-43948-12		.							B, C, D, S	1
65	NAS514P632-5		.							B, C, D, S	4
70	BACS12CB04-4		.							B, D, S	4
-70A	BACS12CB04-4		.							C	3
75	69-37325-5		.							B, C, D, S	1
80	69-37325-8		.							B, C, D, S	1
85	69-37268-13		.							B, C, D, S	1
90	69-37268-14		.							B, C, D, S	2
95	BACS12CB06-14		.							B, C, D, S	2
100	NAS43DD1-17		.							B, C, D, S	2
105	NAS679A06W		.							B, D, S	2
-105A	BACN10JC06		.							C	2
110	582557-1		.							B, C, D, S	1
115	582507-1		.							B, C, D, S	1
120	NAS679A06W		.							B, D, S	2
-120A	BACN10JC06		.							C	2

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
6-											
125	AN960PD6		.	W	A	S	H	E	R	B, C, D, S	6
130	BACR13CF4		.	R	E	L	A	Y		B, C, D, S	1
-130A	JG2A		.	R	E	L	A	Y	(OPT) (V35344)	B, C, D, S	1
135	BACS12BE02-3		.	S	C	R	E	W		B, C, D, S	2
140	1491A		.	I	N	S	I	L	A	B, C, D, S	2
-140A	1625-4-12		.	I	N	S	I	L	A	B, C, D, S	2
145	1N4384		.	D	I	O	D	E	(V14936)	B, C, D, S	1
150	BACS12BE02-5		.	S	C	R	E	W		B, D, S	2
-150A	BACS12BF02-5		.	S	C	R	E	W		C	2
155	BACN10DN26		.	N	U	T				B, C, D, S	2
160	RH5-510-3PCT		.	R	E	S	I	S	(V91637)	B, C, D, S	1
-160A	3105M510-3PCT		.	R	E	S	I	S	(V00213) (OPT ITEM 160)	B, C, D, S	1
165	BAC27DCC666		.	A	L	U	M	I	N	D	1
-165A	BAC27DCC571		.	A	L	U	M	I	N	B, S	1
-165B	BAC27DCC572		.	A	L	U	M	I	N	C	1
170	2PB11H58		.	P	U	S	H	B	(V91929)	B, D, S	1
-170A	2PB11H58		.	P	U	S	H	B	(V91929)	C	2
175	MS24523-23		.	S	W	I	T	C		B, C, D, S	1
180	11170-1		.	S	W	I	T	C	(V72914)	B, C, D, S	1

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY	
			1	2	3	4	5	6	7			
6- 185	BCREF2687		.								D, S	1
-185A	BCREF2579		.								B, C	1
190	69-43948-14		.								B, D, S	1
-190A	69-43948-17		.								C	1
195	69-37325-18		.								C	1
-195A	69-37325-21		.								B, D, S	1
200	BACP10U0225G		.								B, C, D, S	1
205	BACS21DD1G		.	.							B, C, D, S	4
-210	69-37325-54		.								B, S	1
-210A	69-37325-55		.								C	1
-210B	69-37325-58		.								D	1
215	662143-2		.								B, C, D, S	AR
220	BACT12S		.								B, C, D, S	AR
225	BAC27DCC239		.								B, C, D, S	1
230	BAC27EEX510		.								B, C, D, S	1

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