TO: ALL HOLDERS OF AUDIO ACCESSORY UNIT ASSEMBLY M69 OVERHAUL MANUAL, 23-56-17

REVISION NO. 10, DATED JUL 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 P/N's from manual	X				X			X	X			X	

AUDIO ACCESSORY UNIT ASSEMBLY M69

23-56-17

BOEING P/N 65-85316-5, -9

AIRLINE P/N

THE FOLLOWING DIRECTIVES APPLY TO THIS SUBJECT:

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVES	DATE DIRECTIVE INCORPORATED INTO TEXT

LIST OF EFFECTIVE PAGES

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

	PAGE	DATE		PAGE	DATE		PAGE	DATE
	23-56-17		*	1103	Jul 1/08			
*	T-1	Jul 1/08	*	1104	Jul 1/08			
	T-2	BLANK	*	1105	Jul 1/08			
*	LEP-1	Jul 1/08	*	1106	Jul 1/08			
	LEP-2	BLANK	*	1107	Jul 1/08			
*	T/C-1	Jul 1/08	*	1108	DELETED			
	T/C-2	BLANK	*	1109	DELETED			
*	1	Jul 1/08	*	1110	DELETED			
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	402	BLANK						
*	701	Jul 1/08						
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* F	813	DELETED						
	814	BLANK						
*	1101	Jul 1/08						
*	1102	Jul 1/08						

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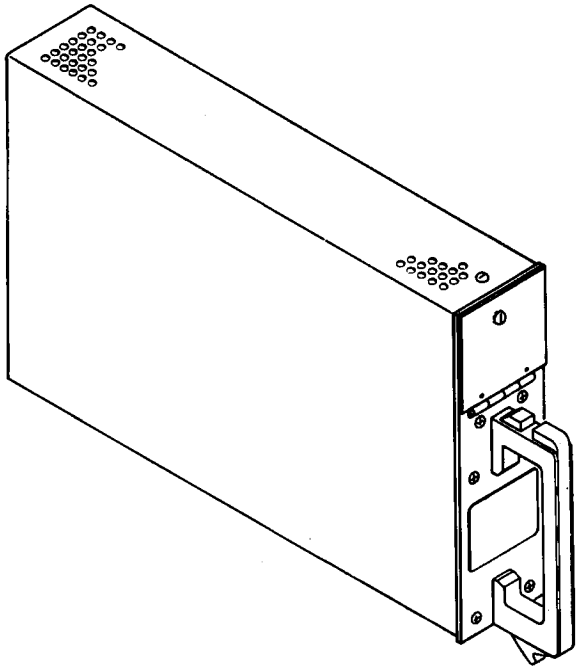
*[1] Use applicable procedures in SOPM 20-11-04 and standard industry practices.

*[2] Special instructions not required.

AUDIO ACCESSORY UNIT ASSEMBLY (M69)



Audio Accessory Unit Assembly (M69)
Figure 1

DESCRIPTION AND OPERATION

1. Description

NOTE: For coverage of 65-52804-43, -63, -71, -97, -177, -201, refer to BAE Systems (V89954, BAE Systems Controls Inc., 600 Main St., Johnson City, NY 13790-1806) CMM 23-56-17.

A. The audio accessory unit assembly consists of printed circuit assemblies, potentiometers, relays, diodes, filters, and a wire bundle mounted in a chassis assembly.

B. The audio accessory unit assembly is located in the electronic equipment rack.

2. Operation

A. The audio accessory unit assembly contains components and circuitry used with various communications systems. Amplifiers with associated potentiometers control volume level of the flight, service and attendant interphone systems. Another potentiometer provides control for passenger address sidetone level. Relays provide for switching between various crew stations. Filtering is provided for the reception of range and voice signals.

3. Functional Description (See schematic diagram.)

A. Audio System Loads

(1) Impedance matching resistors on printed circuit assembly A1 provide audio system loads.

B. Interphone Signal Isolation

(1) Interphone signal isolation diodes are contained on printed circuit assembly A2.

C. Sensitivity and Output Control

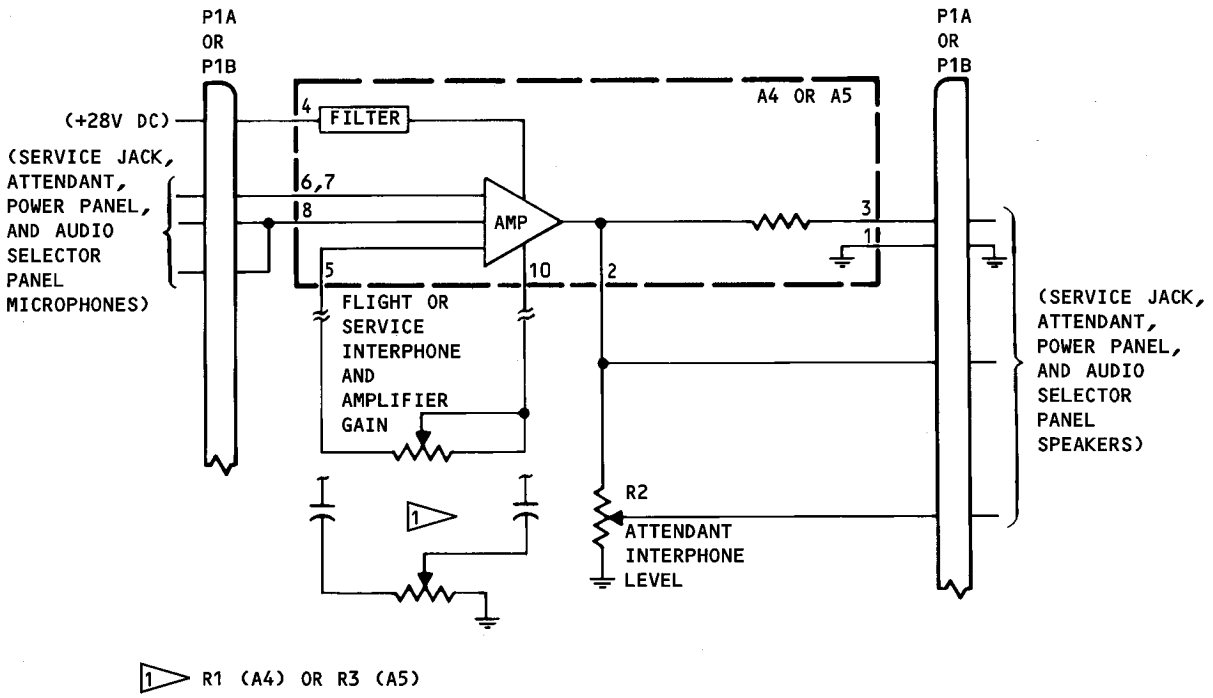
(1) Diode and resistor circuits on printed circuit assembly A3 perform sensitivity and output control of various audio circuits.

D. Interphone Amplifier

(1) Interphone amplifiers A4 and A5 provide audio gain and output level regulation for the flight, service and attendant interphone systems.

(2) Interphone amplifiers A4 and A5 operation is functionally identical. See Figure 2 and refer to schematic diagram for audio accessory unit pin numbers.

(a) With +28 volts dc applied to printed circuit assembly pins 4 and 1 grounded , circuit will amplify signals applied at pins 6, 7 and 8. The output signal at pins 2 and 3 can be adjusted with the flight or service interphone and amplifier gain control potentiometer.



Common Simplified Interphone Amplifier Circuit
Figure 2

E. Audio signal level potentiometer adjustments are as follows:

(1) Flight Interphone and Amplifier Gain Control R1

(2) Attendant Interphone Level Control R2

(3) Service Interphone and Amplifier Gain Control R3

(4) Passenger Address Sidetone Level Control R4

F. Relays

(1) Relays K1, K2 and K3 are used to transfer power from one interphone station to another. With +28 volts dc applied to pin A-50, relay Kl can be energized by grounding pin A-49, relay K2 by grounding pin A-51 and relay K3 by grounding pin A-57.

(2) Relay K4, along with card A7 provide muting for the public address system. With +28 volts dc applied to pin A-18, relay A7K1 can be energized by grounding pin B-3, relay A7K2 can be energized by grounding pin B-2, and relay K4 can be energized by grounding pin A-9. When relay K4 is energized, +28 volts dc is removed from card A7, preventing relays A7K1 and A7K2 from being energized.

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G. Filters

(1) Filters FL1 and FL2 divide the station identification signals (range) and the communications (voice) outputs of the ADF receivers.

(a) FL1 and FL2 are functionally identical and only FL1 will be discussed. The FL1 input is connected to pin A-36 and pin B-51 is grounded. The filter transmits a narrow frequency band around 1020 Hz, at pin A-26, when range output is used. The voice output at pin A-27 is transmitted in a wide frequency range except for the narrow band (700 to 1500 Hz) around 1020 Hz.

REPAIR

1. All repair may be accomplished with standard industry practices and information contained in SOPM 20-11-04 except as noted in the following:

   A. If printed circuit assembly keying plugs are to be replaced, insert in connectors at positions shown in Fig. 401.

Connector	Insert at Position
J1 (XA1)	5 and 6
J2 (XA2)	7 and 8
J3 (XA3)	13 and 14
J4 (XA4)	9 and K
J5 (XA5)	9 and K
J7 (XA7)	13 and 14

Printed Circuit Assembly Connector Indexing
Figure 401

TESTING

1. Test Equipment

   A. Audio Signal Generator, HP205AG or equivalent

   B. Capacitor, 47 uf, 35 volts (C1)

   C. Headset, 600 ohms, Telephonics Model TC-149G, P/N 20046-1 or equivalent

   D. Resistor, 150 ohms, 0.5 watt (three required, R1, R2 and R3)

   E. Resistor, 3k, 0.5 watt (R4)

   F. Multimeter, Simpson Model 260 or equivalent

   G. Digital Multimeter, Fluke 8062 or equivalent

   H. Power Supply, 27.5 volts dc, 0.5 ampere

   I. Frequency Counter, HP524 C/D or equivalent

   J. Switch, SPDT 3-position (four required, S1, S3, S4 and S5)

   K. Switch, Rotary Selector, (5 required) S2 and S9 = 5-position; S6 = 4-position; S8 = 6-position; S10 = 8-position

   L. Switch, SP3T (S7)

   M. Mating Connector, DPX2MA57S57S33B0050 (ITT Cannon Electric Div., International Telephone and Telegraph Co., 666 E. Dyer Rd, Santa Ana, California 92702)

2. Functional Test

   A. Ground pin B51 and keep it grounded for duration of test.

   B. Verify continuity between pairs of pins listed:

      (1) A29 and B51, A40 and B31, A39 and B49

      (2) A54 and B51, A41 and B31, A42 and B49

      (3) A45 and B51, A47 and B31, A46 and B49

      (4) B22 and B30, B30 and B51, A12 and A13, A1 and A2, A10 and A20

      (5) B51 and B39, B41 and chassis

C. Connect A49, A51, and A57 with jumper wires to B51 then apply +27.5 volts dc to pin A50. Verify continuity between pairs of pins listed:

(1) A40 and A11, A39 and A21, A29 and A30, A48 and A49

(2) A41 and A11, A51 and A52, A42 and A22, A54 and A8

(3) A47 and A11, A56 and A57, A46 and A22, A45 and A8

D. Remove jumper wires connecting A49, A57, and A51. Disconnect 27.5 volt dc source. Verify no continuity between pairs of pins listed:

(1) A21 and B49, A30 and B51, A48 and A49

(2) A22 and B49, A51 and A52

(3) A8 and B51, A56 and A57

E. Set "R2 Attendant Interphone Level" and "R4 S.T. Lev" control fully CW and measure 1.25k ±10% *[1] resistance between pins A11 and A40.

F. Connect ohmmeter to pins A47 and B51 and verify that resistance varies from 0 ±5 ohms CCW to 250 ±20 ohms CW when adjusting "R2 Attendant Interphone Level" control.

*[1] 2k ±5% on 65-85316-5
1.25k ±10% on 65-85316-9

G. Check resistors of load resistor card AI by measuring resistance between pins shown in Fig. 701.

Component Tested	Pins	Resistance (ohms)
R3	B51, B28	560 ±40
R9	B51, B37	560 ±40
R5	B51, B38	560 ±40
R4	B51, B44	560 ±40
R10	B51, B45	560 ±40
R6	B51, B46	560 ±40
R2	B51, B47	560 ±40
R11	B51, B54	560 ±40
R8	B51, B55	560 ±40
R1	B51, B56	560 ±40
R7	B51, B57	560 ±40
R14	B25, B34	*[2] 22k ±5%
R15	B25, B35	*[3] 91k ±5%
R12	B36, B26	*[2] 22k ±5%
R13	B36, B27	*[3] 91k ±5%

*[2] 22k ±5% on 65-85316-5
1.2k ±5% on 65-85316-9
*[3] 91k ±5% on 65-85316-5
1.8k ±5% on 65-85316-9

Resistor Tests
Figure 701

H. Check resistors of sensitivity output control card A3 by measuring resistance between pins shown in Fig. 702.

Component Tested	Pins	Resistance (ohms)
R9	A3, A1	200 (± 14)
R8	A3, A4	390 (± 30)
R7	A4, A5	620 (± 50)
R6	A5, A6	820 (± 60)
R5	A7, A6	2000 (± 150)
R4	A12, A14	200 (± 14)
R3	A15, A14	390 (± 30)
R2	A15, A16	820 (± 60)
R1	A16, A17	1000 (± 70)

Resistor Test
Figure 702

I. Verify a resistance of 1000 (± 120) ohms between A31 and B51.

J. Verify that PA ADJUST, R4 S.T. LEV control varies resistance between A31 and A11 from zero (-0/+5) ohms clockwise to 1000 (± 120) ohms counterclockwise.

K. Set R4 S.T. LEV control for a resistance of 200 ohms between pins A11 and A31. Lock R4 control.

L. Verify diode forward and reverse resistance between pins listed in Fig. 703.

Component Tested	Measure Between Pins	25 Ohms Max With + at Pin	100k Min With + at Pin
A2-CR1	B19, B9	B19	B9
CR2	B18, B8	B18	B8
CR3	B17, B7	B17	B7
CR4	B16, B5	B16	B5
CR5	B15, B5	B15	B5
A3-CR1	A24, A34	A24	A34
CR2	A25, A34	A25	A34
CR4	A44, A35	A44	A35
CR3	A53, A43	A53	A43

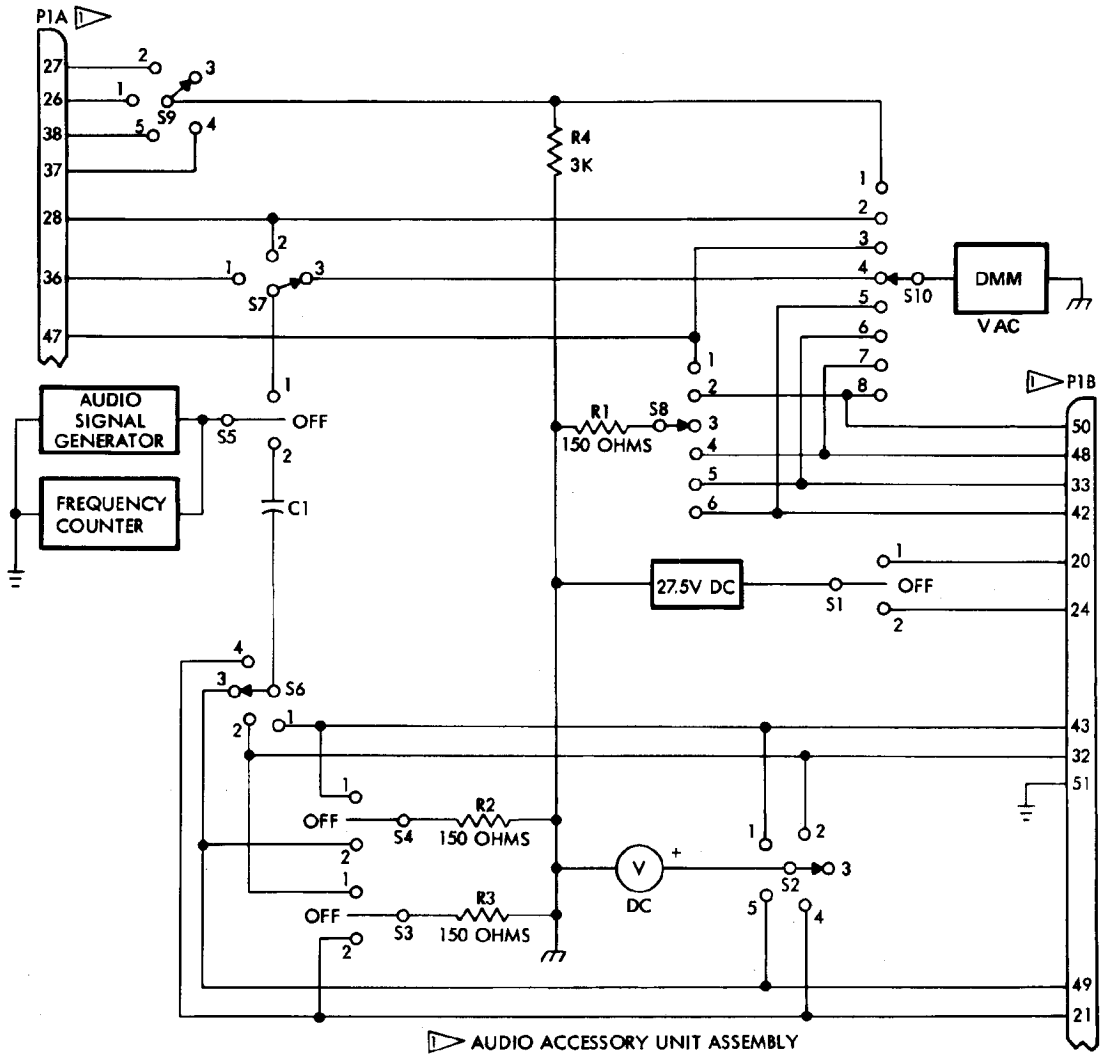
Diode Test
Figure 703

M. Check relay suppressor diodes by measuring resistance between pins listed in Fig. 704.

Component Tested	Measure Between Pins	25 Ohms Max With + at Pin	100k Min With + at Pin
CR1	A49, A50	A49	A50
CR2	A51, A50	A51	A50
CR3	A57, A50	A57	A50

Diode Test
Figure 704

N. Connect assembly to test setup as shown on Fig. 705. After each step leave switches in last specified position.



Test Setup
Figure 705

O. Set switches S1, S3, S4, and S5 to OFF, S2, S6, S7, S8, and S9 to position 3 and S10 to position 4. Turn on power supply.

P. Set S1 to position 2; S2, S3, and S4 to position 1. DC voltmeter shall indicate 6.7 ±1 volts.

Q. Set S2 to position 2. DC voltmeter shall indicate 6.7 ±1 volts.

R. Set S2 to position 3, S3 and S4 to OFF, S5 to 2, S6 to position 1, S8 to position 6, and S10 to position 5.

S. Adjust audio signal generator for a 50-ohm, 250-millivolt, 1000-Hz output.

T. Adjust R1 FLT GAIN control and verify that indication of DMM varies at least from 0.71 to 2.5 vac.

(1) Set R1 FLT GAIN control to that position where DMM indicates 1.0 vac. Lock control.

U. Deleted

V. Set S6 to position 2. Output from audio signal generator shall be 50 ohms, 250 millivolts, 1000 Hz.

W. Connect headset between B33 and B51 and verify that 1000-Hz signal is present in headset.

X. Set S1 in position 1, S2 to position 5, S3 and S4 to position 2, S5 to OFF, S8 to 3 and S10 to position 4. Voltmeter shall indicate 6.7 ±1 volts.

Y. Set S2 to position 4. Voltmeter shall indicate 6.7 ±1 volts.

Z. Set S2 to position 3, S3 and S4 to OFF, S5 to position 2, S6 to 3, S8 to 4, and S10 to position 7. Adjust audio signal generator for a 50-ohm, 250-millivolt, 1000-Hz output.

AA. Adjust R3 SERV ATT GAIN control and verify that indication of DMM varies at least from 0.71 to 2.5 vac.

(1) Set R3 SERV ATT GAIN control to that position where DMM indicates 1.0 vac. Lock control.

AB. Adjust R3 SERV ATT GAIN control and verify that indication of DMM varies at least from 0.15 to 2.5 vac.

AC. Set S8 to position 1 and S10 to position 3. Adjust R2 Attendant Interphone Level control so that DMM indicates 0.5 vac. Lock control.

AD. Set S6 to position 4. Output from audio signal generator shall be 50 ohms, 250 millivolts, 1000 Hz. Connect a headset between B50 and ground and verify that 1000-Hz signal is present in headset.

AE. Set S1 to OFF, S5 to position 1, S8 to position 3. Perform the steps of Fig. 706 in sequence. For odd-numbered steps, adjust audio signal generator for 600-ohm output impedance and a frequency and voltage as called out in Fig. 706. Measure VAC with DMM. Odd-numbered steps constitute check of filter input. Even-numbered steps constitute check of filter output.

Step	Position of S10	Position of S7	Position of S9	VTVM	Frequency Counter Hz
1	4	3	3	8 volt	700 (± 5)
2	1	1	2	1 volt min	700 (± 5)
3	4	3	2	8 volt	1020 (± 5)
4	1	1	2	100 mv max	1020 (± 5)
5	4	3	2	8 volt	1500 (± 5)
6	1	1	2	1 volt min	1500 (± 5)
7	4	3	1	8 volt	700 (± 5)
8	1	1	1	100 mv max	700 (± 5)
9	4	3	1	8 volt	1020 (± 5)
10	1	1	1	1 volt min	1020 (± 5)
11	4	3	1	8 volt	1500 (± 5)
12	1	1	1	100 mv max	1500 (± 5)
13	4	3	5	8 volt	700 (± 5)
14	1	2	5	1 volt min	700 (± 5)
15	4	3	5	8 volt	1020 (± 5)
16	1	2	5	100 mv max	1020 (± 5)
17	4	3	5	8 volt	1500 (± 5)
18	1	2	5	1 volt min	1500 (± 5)
19	4	3	4	8 volt	700 (± 5)
20	1	2	4	100 mv max	700 (± 5)
21	4	3	4	8 volt	1020 (± 5)
22	1	2	4	1 volt min	1020 (± 5)
23	4	3	4	8 volt	1500 (± 5)
24	1	2	4	100 mv max	1500 (± 5)

Functional Test
Figure 706

AF. Disconnect assembly from test setup and turn off power supply.

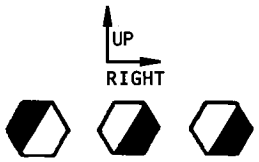
AG. Test components on card A7 per Figure 707. All pins listed are on the B connector.

Component Tested	Measure Between Pins	25 ohms Max With + at Pin	100K Min With + at Pin
65-85316-5 only			
A7CR1	6 to 10	6	10
A7CR2	6 to 11	6	11
A7CR3	6 to 12	6	12
A7CR4	6 to 13	6	13
A7CR5	6 to 14	6	14
65-85316-9 only			
A7CR1	1 to 10	1	10
A7CR2	6 to 10	6	10
A7CR3	2 to 11	2	11
A7CR4	6 to 11	6	11
A7CR5	3 to 12	3	12
A7CR6	6 to 12	6	12
A7CR7	4 to 13	4	13
A7CR8	6 to 13	6	13
A7CR9	23 to 14	23	14
A7CR10	6 to 14	6	14

Diode Tests
Figure 707

AH. Deleted

AI. Verify indexing on rear connector as follows:



NOTE: Darkened portion indicates extended part of keying post.

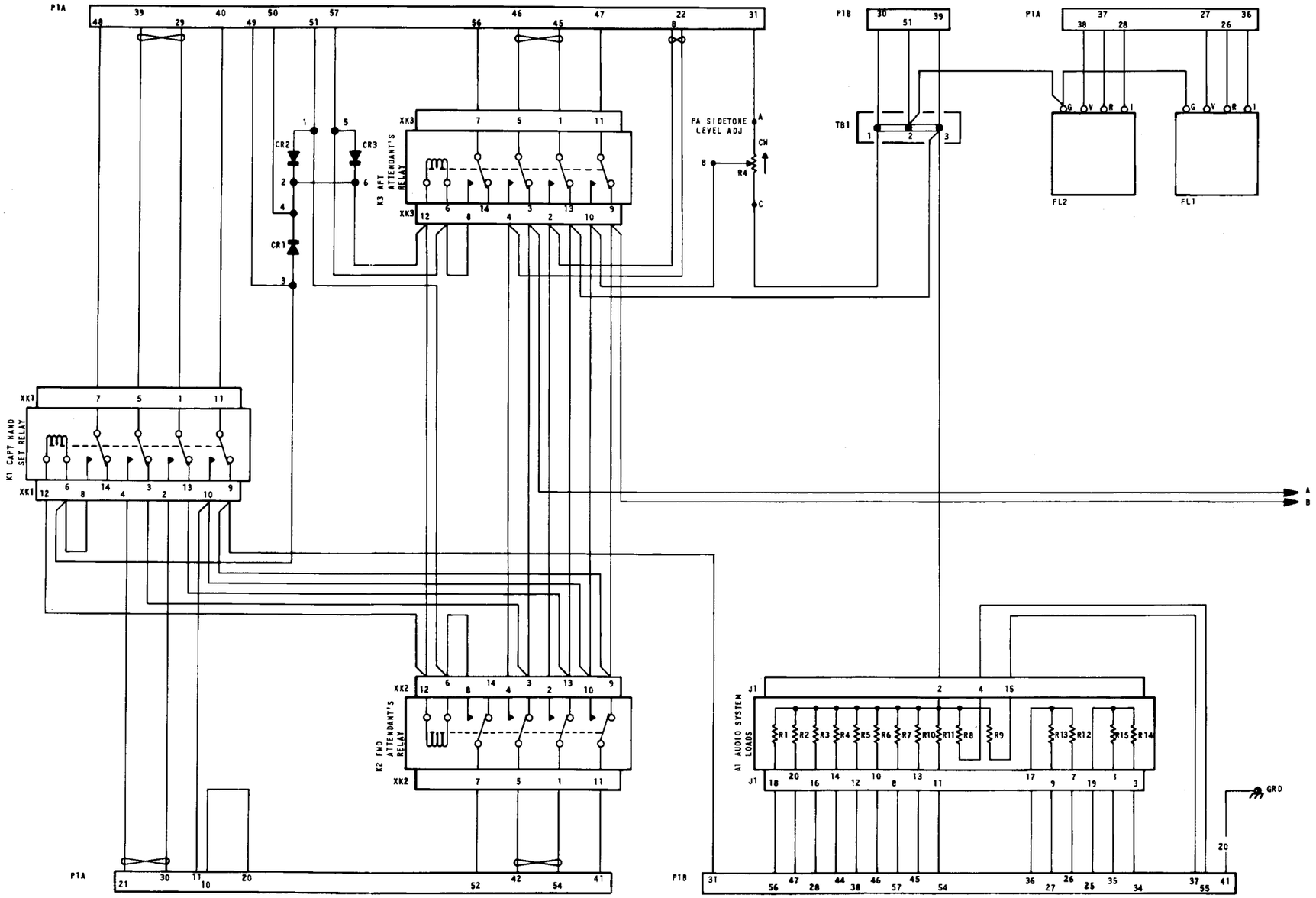
TROUBLE SHOOTING

1. If failure of a test occurs, check for defective connections and incorrect wiring connections, prior to replacement of components.

NOTE: Trouble shooting is keyed to functional test procedures.

	Trouble	Possible Cause	Correction
A.	Para 2.B.( )		
	(1) K1 defective	Replace K1	
	(2)	K2 defective	Replace K2
	(3)	K3 defective	Replace K3
B.	Para 2.C.( )and 2.D.( )		
	(1)	K1 defective	Replace K1
	(2)	K2 defective	Replace K2
	(3)	K3 defective	Replace K3
C.	Paragraph 2.E.	R2 or R4 defective	Replace defective component
D.	Paragraph 2.F.	R2 defective	Replace R2
E.	Paragraph 2.G.	Component tested defective	Replace defective component
F.	Paragraph 2.H.	Component tested defective	Replace defective component
G.	Paragraph 2.I.	R4 defective	Replace R4
H.	Paragraph 2.J.	R4 defective	Replace R4

	Trouble	Possible Cause	Correction
I.	Paragraph 2.L.	Component tested defective	Replace defective component
J.	Paragraph 2.M.	Component tested defective	Replace defective component
K.	Paragraph 2.P.	A4 defective	Replace A4
L.	Paragraph 2.Q.	A4 defective	Replace A4
M.	Paragraph 2.T.	A4 or R1 defective or 2.U.	Replace defective component
N.	Paragraph 2.W.	A4 defective	Replace A4
O.	Paragraph 2.X.	A5 defective	Replace A5
P.	Paragraph 2.Y.	A5 defective	Replace A5
Q.	Paragraph 2.AA.	A5 or R3 defective or 2.AB.	Replace defective component
R.	Paragraph 2.AD.	A5 defective	Replace A5
S.	Figure 706		
	Steps 2 thru 12	FL1 defective	Replace FL1
	Steps 14 thru 24	FL2 defective	Replace FL2
T.	Figure 707	Component tested defective	Replace defective component



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Schematic Diagram
Figure 801 (Sheet 1)

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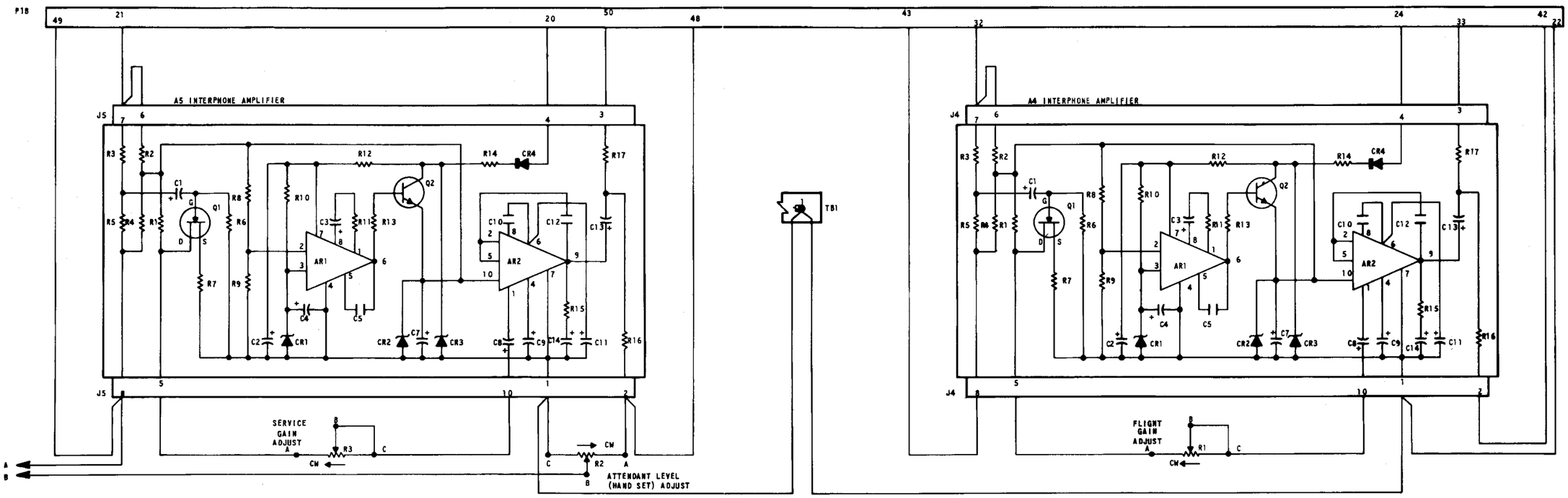

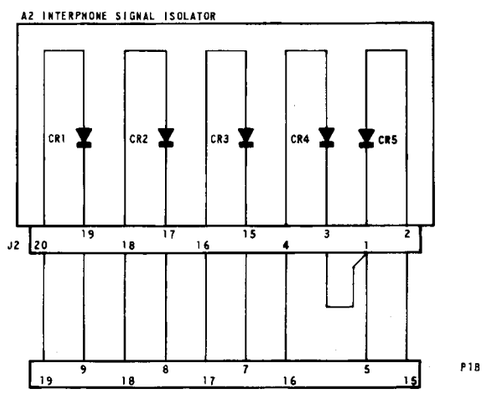

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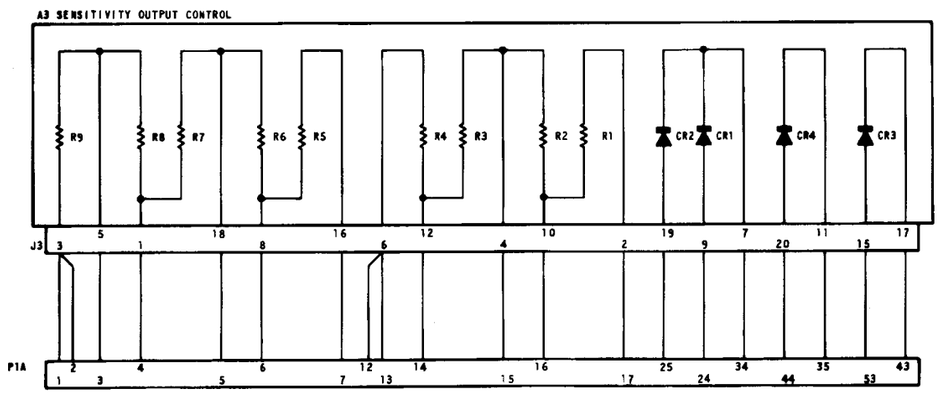
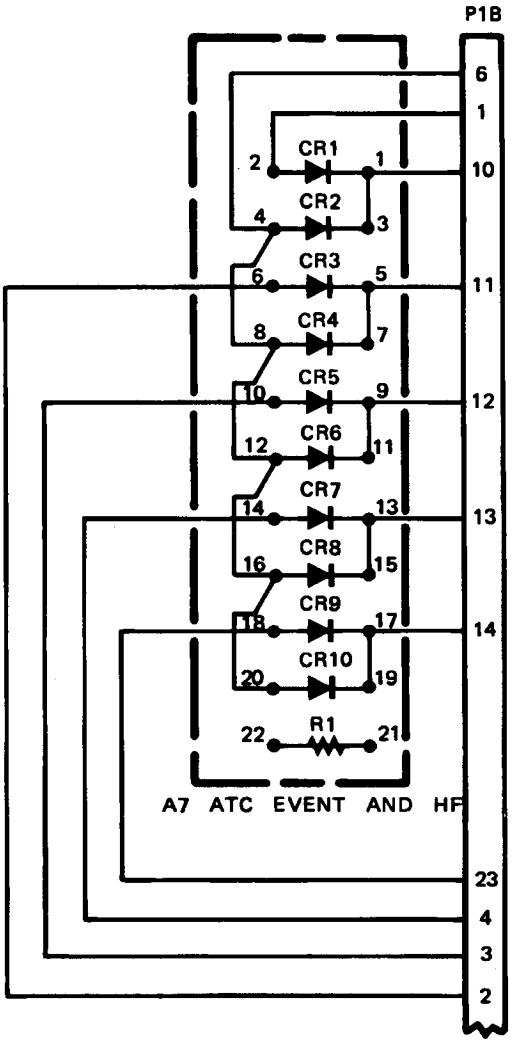
Schematic Diagram
Figure 801 (Sheet 2)



NOTE: WIRE IS BMS 13-16, TYPE 1 CLASS 1
SIZE AWG 22 EXCEPT AS NOTED



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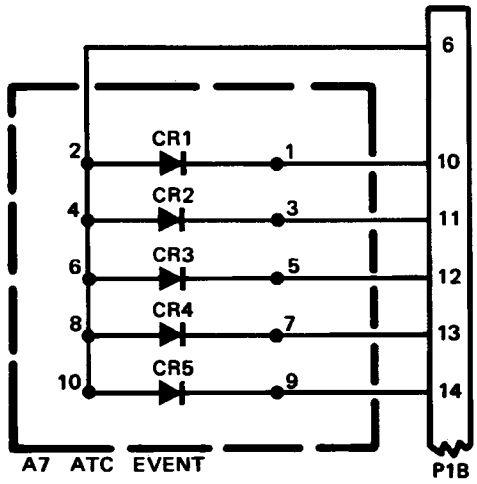

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Schematic Diagram
Figure 801 (Sheet 3)

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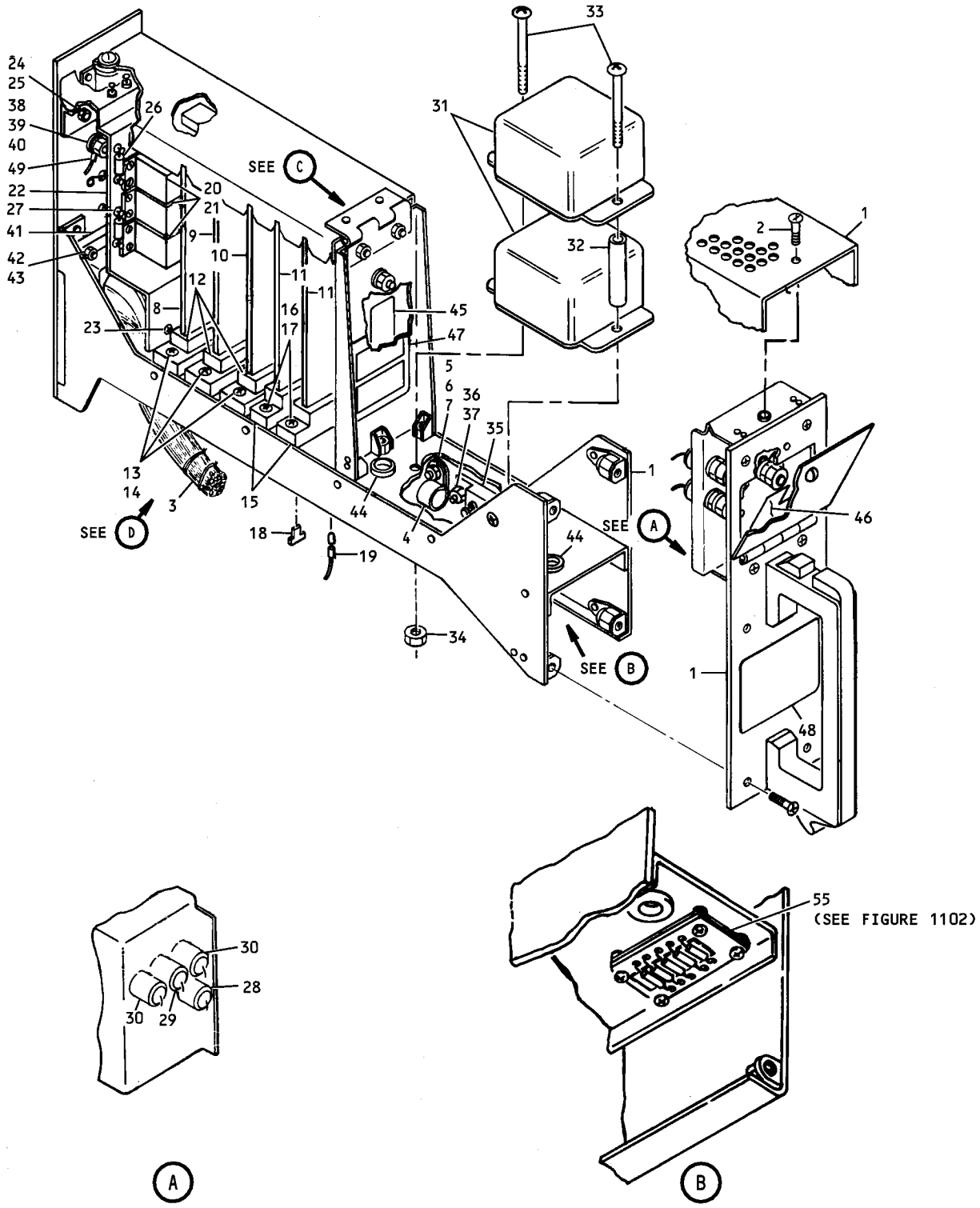

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Audio Accessory Unit Assembly (M69)
Figure 1101 (Sheet 1)

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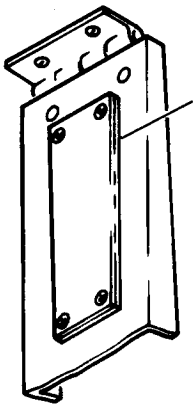

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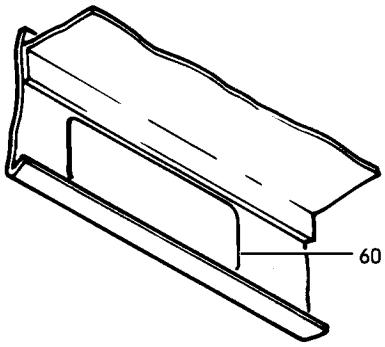

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65-85316-9 ONLY

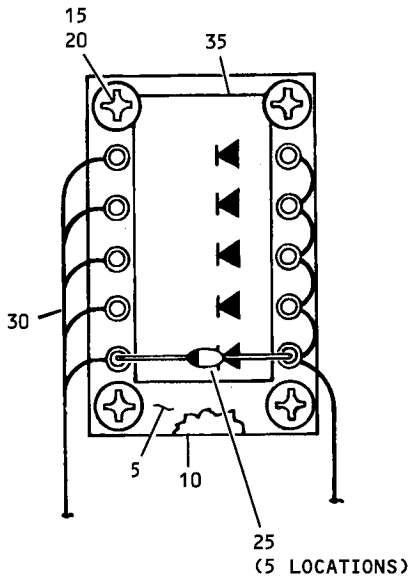
Audio Accessory Unit Assembly (M69)
Figure 1101 (Sheet 2)

1541944

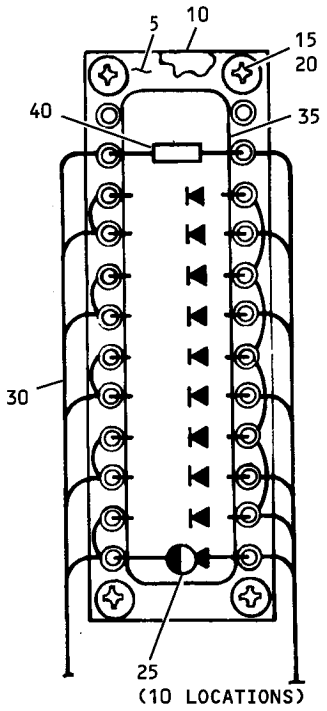
FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101-					
	65-85316-5		AUDIO ACCESSORY UNIT ASSY (M69) (REWORK OF 65-52804-43)	A	
	65-85316-9		AUDIO ACCESSORY UNIT ASSY (M69) (REWORK OF 65-85316-5)	B	
1	65-52800-15		. CHASSIS ASSY		1
2	AN500-6-4		. SCREW		1
3	65-52804-44		. WIRE BUNDLE (MODIFIED)		1
4	BACC10DK		. SUPPORT CLAMP		2
5	NAS514P632		. SCREW		2
6	AN960PD6		. WASHER		2
7	22NM107-62		. NUT, V72962		2
8	65-54485-2		. PRINTED CIRCUIT ASSY (REPLD BY 65-54485-40)		1
8	65-54485-40		. PRINTED CIRCUIT ASSY (REPLS 65-54485-2)		1
9	65-54485-8		. PRINTED CIRCUIT ASSY		1
10	65-54485-5		. PRINTED CIRCUIT ASSY		1
11	65-70390-3		. PRINTED CIRCUIT ASSY		2
12	582583-1		. CONNECTOR, V00779		3
13	NAS600-8P		. SCREW		6
14	BACN10DN40		. NUT		6
15	582551-1		. CONNECTOR, V00779		2
16	NAS601-8P		. SCREW		4
17	22NM107-62		. NUT, V72962		4
18	582507-1		. KEYING PLUG, V00779		AR
19	66143-2LP		. TERMINAL TAB, V00779		AR
20	BACR13CE2		. RELAY		3
21	HRCC5KM		. RELAY SOCKET, V91663		3
22	69-46662-11		. BRACKET		1
23	NAS600-3P		. SCREW		2
24	NAS514P440-5		. SCREW		2
25	BACN10DN40		. NUT		2
26	1N4385		. DIODE, V14936		3
27	4444B-4		. TERMINAL, V88245		8
28	RV6LAYSA102A		. POTENTIOMETER, 1K		1
29	RV6LAYSA251A		. POTENTIOMETER, 250 OHMS		1
30	RV6LAYSA104A		. POTENTIOMETER, 100K		2
31	JL986		. FILTER, V80223		2
32	NAS43DD3-85		. SPACER		2
33	NAS602-27		. SCREW		2
34	22NM408-82		. NUT, V72962		2

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101-					
35	411GMF1903-5-12A		. TERMINAL BLOCK, V75382		1
36	NAS514P440-8		. SCREW		2
37	BACN10DN40		. NUT		2
38	NAS514P632		. SCREW		1
39	AN960D6L		. WASHER		2
40	22NM107-62		. NUT, V72962		1
41	DPX2MB-57P 57P34B0050		. CONNECTOR, V71468		1
42	NAS514P440-6		. SCREW		4
43	BACN10DN40		. NUT		4
44	NAS557-6A		. GROMMET		2
45	69-34180-13		. METAL LABEL	A	1
46	BAC27DEX268		. MARKER		1
47	BAC27DEX296		. MARKER		1
48	69-31184-53		. NAMEPLATE		1
49	BACT12AC		. TERMINAL LUG		1
55	69-63592-1		. TERMINAL BOARD COMPONENT ASSY (FIG. 1102)	A	1
55	69-63592-3		. TERMINAL BOARD COMPONENT ASSY (FIG. 1102)	B	1
60	BAC27DEX1216		. MARKER	B	1

FIG. 1101 REFERENCE DESIGNATION INDEX (SEE SCHEMATIC DIAGRAM)		
REFERENCE DESIGNATION	PART NUMBER	ITEM NO.
A1	65-54485-2	8
A1	65-54485-40	8
A2	65-54485-8	9
A3	65-54485-5	10
A4, A5	65-70390-3	11
A7	69-63592-1	55
A7	69-63592-3	55
CR1, CR2, CR3	1N4385	26
FL1, FL2	JL986	31
J1, J2, J3	582583-1	12
J4, J5	582551-1	15
K1, K2, K3	BACR13CE2	20
P1A-P1B	DPX2MA57P57P34B0050	41
R1, R3	RV6LAYSA104A	30
R2	RV6LAYSA251A	29
R4	RV6LAYSA102A	28
XK1, XK2, XK3	HRCC5KM	21
TB1	411GMF1903-5-12A	35



ASSEMBLY 65-63592-1



ASSEMBLY 65-63592-3

Terminal Board Component Assembly
Figure 1102

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1102-					
	69-63592-1		TERMINAL BOARD COMPONENT ASSY	A	
	69-63592-3		TERMINAL BOARD COMPONENT ASSY	B	
5	MOD15511SP1		. TERMINAL BOARD, V91833		1
10	MOD15511SP2		. TERMINAL BOARD, V91833		1
10	MOD15511SP2		. INSULATOR, V91833		1
15	NAS600-5P		. SCREW		4
20	BACN10DN40		. NUT		4
25	1N5061		. DIODE	A	5
25	1N5061		. DIODE	B	10
30	69-63592-2		. WIRE BUNDLE	A	1
30	69-63592-4		. WIRE BUNDLE	B	1
35	BAC27DEX1167		. MARKER	A	1
35	BAC27DEX999		. MARKER	B	1
40	RCR07G123JM		. RESISTOR, 12K ±5%, 1/4 WATT	B	1

1544951

FIG. 1102 REFERENCE DESIGNATION INDEX (SEE SCHEMATIC DIAGRAM)		
REFERENCE DESIGNATION	PART NUMBER	ITEM NO.
CR1-CR10 R1	1N5061 RC07G123JM	25 40

VENDORS

V00779	TYCO ELECTRONICS CORP., 2800 FULLING MILL RD., BLDG-38, MIDDLETOWN, PENNSYLVANIA 17057-3142
V019L2	MACLEAN-FOGG COMPANY, 611 COUNTRY CLUB RD., POCAHONTAS, ARKANSAS 72455-8803
V14936	GENERAL SEMICONDUCTOR, INC., 10 MELVILLE PARK RD., MELVILLE, NEW YORK 11747
V71468	ITT CORP., 666 E. DYER RD., SANTA ANA, CALIFORNIA 92705-5612
V72962	HARVARD INDUSTRIES, INC., CANCELLED/REPLACED BY V019L2
V75382	KULKA ELECTRIC CORP. CANCELLED/REPLACED BY V83330
V80223	UNITED TRANSFORMER CORP., 300 RED SCHOOL LN., PHILLIPSBURG, NEW JERSEY 08865-2233
V81312	WINCHESTER ELECTRONICS CORP., 62 BARNES INDUSTRIAL RD. N., WALLINGFORD, CONNECTICUT 06492-1846
V83330	DIALIGHT CORP., 1501 STATE RTE. 34 S., FARMINGDALE, NEW JERSEY 07727-3932
V88245	WINCHESTER ELECTRIC CORP., LITTON SYSTEMS, USECO DIV., CANCELLED/REPLACED BY V81312
V91663	ARMEL ELECTRONICS INCORPORATED, 1601 - 75TH STREET, NORTH BERGEN, NEW JERSEY 07047-4094
V91833	KEYSTONE ELECTRONICS CORP., 3107 20TH RD., LONG ISLAND, NEW YORK 11105-2017