

BOEING 
COMMERCIAL JET
OVERHAUL MANUAL

TO: ALL HOLDERS OF TELEPHONE ASSEMBLY OVERHAUL MANUAL, 23-02-14

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
Issued new Subject 23-02-14 covering Telephone Assembly part numbers 65V11226-1, -2, -3, -41, -55													

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TELEPHONE ASSEMBLY

23-02-14

BOEING P/N 65V11226-1, -2, -3, -41, -55

AIRLINE P/N

THE FOLLOWING DIRECTIVES APPLY TO THIS SUBJECT:

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

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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
23-02-14					
* T-1	Jan 5/79				
* T-2	BLANK				
* LEP-1	Jan 5/79				
* LEP-2	BLANK				
* T/C-1	Jan 5/79				
* T/C-2	BLANK				
* 1	Jan 5/79				
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* 20	Jan 5/79				
* 21	Jan 5/79				
* 22	Jan 5/79				
* 23	Jan 5/79				
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* 26	BLANK				
* 27	Jan 5/79				
* 28	Jan 5/79				
* 29	Jan 5/79				
* 30	Jan 5/79				
* 31	Jan 5/79				
* 32	BLANK				

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

*[2] Special instructions not required.

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TELEPHONE ASSEMBLY

1. DESCRIPTION AND OPERATION

A. Description

- (1) The telephone assemblies contain a handset with spring-loaded cradle in a recessed pan assembly. The units also contain various indicator switches for initiating calls, alerting to calls, or alerting attendants. Some units contain a reading light on/off switch, or a room control unit for selection and volume control of audio channels. The units contain ringers or buzzers for alerting to calls. Hookswitch, relays, and diodes associated with the telephone circuitry are mounted on the back.
- (2) The units are designed for mounting in a recessed wall panel or in the arm of airplane seating.

B. Operation

- (1) 65V11226-41
 - (a) This unit contains a latching relay associated with the call indicator. 28 volts dc is connected at pin 10. Ground is connected at pin 9. Relay K1 has coil ground through the hookswitch when the handset is on hook.
 - (b) When the caller depresses a call button, 28 volts dc is connected at pin 2 until the button is released. While the 28 volts is present, the sonalert sounds to signal an incoming call. At the same time, the 28-volt dc signal is passed through CR2 and CR1 to S2 indicator.
 - (c) The incoming 28 volts energizes K1 thru CR3. K1 is latched energized by the pin 10 input through its own contacts. In addition, 28 volts is passed to S2 indicator. When the input call button is released, the sonalert output ceases, but the S2 indicator remains illuminated.
 - (d) When the handset is lifted, K1 loses coil ground, relaxes, and S2 indicator is extinguished.

2. REPAIR

A. All repair may be accomplished with standard industry practices and procedures in 20-11-04 except as noted in the following:

- (1) When replacing indicator legends (230-240, Fig. 4) (265-270 Fig. 5) cut legend from transparency and insert under clear lens except:
 - (a) 65V11226-1, -2, -3:

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65V11226

- 1) For DS1, insert under translucent (white) lens. Insert red lens under WAIT and green lens under SECURE.
 - 2) For DS2, insert under translucent (white) lens.
- (2) Hookswitch actuator adjustment (111, Fig. 4) (225, Fig. 5)
- (a) The actuator is depressed by the handset when placed on hook. The adjustment screw is located in the end of the actuator opposite the handset. Remove hookswitch assembly (10, Fig. 4, 5) to gain access to the adjustment screw, and replace hookswitch assembly to check adjustment.
 - (b) Adjustment may be made by changing the length of the screw, or by setting the screw to bottom and then backing it out sufficient turns to make switch actuate. When adjustment point is determined, apply Loctite primer, Grade T, and nutlock compound 74 (Loctite Corporation, 705 North Mountain Road, Newington, Connecticut 06111) to threads per manufacturer's instructions, and re-insert screw to proper adjustment point.
 - (c) Adjustment is correct when continuity or no continuity is obtained as follows:
 - 1) 65V11226-1, -2, -3, -55: Continuity pin 26 to 27 when on hook, no continuity when off hook.
 - 2) 65V11226-41: No continuity pin 8 to 9 when on hook, continuity when off hook.

3. TESTING

A. Test Equipment

- (1) Power Supply: 28 volts dc
- (2) Multimeter: Simpson 260 or equivalent
- (3) Audio Signal Generator (65V11226-1, -2, -3 only): Hewlett-Packard 205 AG or equivalent
- (4) Resistors (65V11226-1, -2, -3 only): 150 ohms $\pm 5\%$, 1/4 watt (2 required, R1, R2)

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(5) Test Connectors (with identified pigtail leads): ITT Cannon Electric, 666 E. Dyer Road, Santa Ana, California 92705)

(a) 65V11226-1, -2, -3:

DDC50S (mate with room control unit connector, label J2)
DC37S (mate with connector J1)

(b) 65V11226-41: DEMA15S, mate with J1

(c) 65V11226-55: DCMA37P, mate with J1

B. Testing

(1) Connect telephone assembly with test connectors.

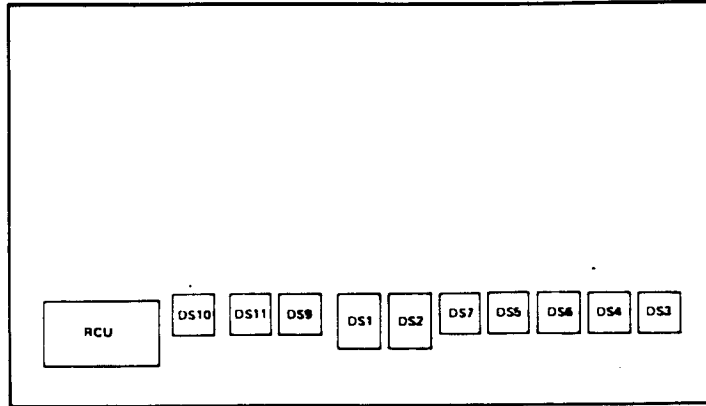
(2) Perform functional test listed in Fig. 2. Component locations are shown by reference designator in Fig. 1. Check for even illumination over indicator lenses. Uneven illumination indicates bulb failure.

NOTE: In each four-bulb indicator, only two diagonally opposed bulbs are wired. The red/green indicator is an exception where all four are wired, but only two illuminate at a time.

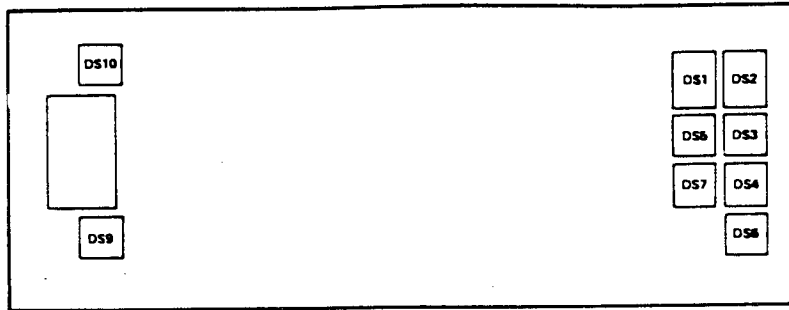
(3) Test the telephone handsets after installation and connection to the airplane system.

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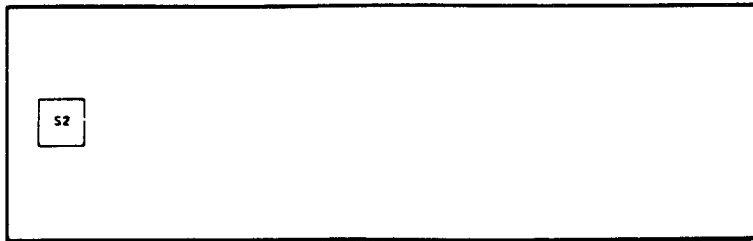
65V11226



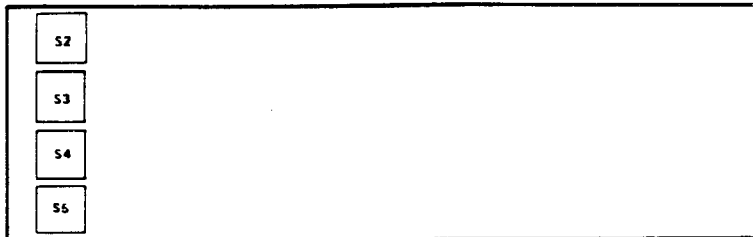
65V11226-1



65-11226-2,3



65V11226-41



65V11226-55

Component Location
Figure 1

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Component Tested	Procedure	Required Results
	All pins listed are on connector J1 unless otherwise noted	
	<u>65V11226-1, -2, -3</u>	
DS1	Set handset on hook Connect 28 v dc to pin 19 Connect pin 23 to ground Connect pin 31 to ground Disconnect 23, 31	DS1 red (WAIT) illuminated DS1 green (SECURE) illuminated DS1 extinguished
DS2	Connect pin 18 to ground Disconnect pin 18	DS2 illuminated DS2 extinguished
DS3	Connect pin 16 to ground Disconnect pin 16	DS3 illuminated DS3 extinguished
DS4	Connect pin 14 to ground Disconnect pin 14	DS4 illuminated DS4 extinguished
DS5	Connect pin 8 to ground Disconnect pin 8	DS5 illuminated DS5 extinguished
DS6	Connect pin 12 to ground Disconnect pin 12	DS6 illuminated DS6 extinguished
DS7	Connect pin 10 to ground Disconnect pin 10	DS7 illuminated DS7 extinguished
DS9/DS10	Connect J2-36 to 28 v dc Connect ground: (65V11226-1, -2) J2-39 (65V11226-3) J2-40	DS9, DS10 extinguished DS9, DS10 extinguished
	<u>NOTE:</u> If DS10 not extinguished, depress once and release. It should extinguish.	
DS9	Depress DS9, release Depress DS10, release Depress DS10 again, release Disconnect J2-36, J2-39, J2-40	Illuminated while depressed DS10 illuminated DS10 extinguished
DS8	Connect J1-21 to ground Connect J1-20 to 28 v dc Disconnect J1-20, J1-21	Buzzer shall sound Buzzer shall cease

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65V11226

Component Tested	Procedure	Required Results	
K1	Measure between pins: 22 to 24	No Continuity	
	25 to 24	Continuity	
	2 to 1	No Continuity	
	2 to 3	Continuity	
	21 to 28	Continuity	
	Connect pin 21 to ground		
	Lift handset from hook		
	SLA/K1	21 to 28	No Continuity
	DS5/K1	Depress and hold DS5 21 to 26	Continuity
	DS5	Release DS5 21 to 26	No Continuity
K1	24 to 22	Continuity	
	24 to 25	No Continuity	
	2 to 1	Continuity	
	2 to 3	No Continuity	
	Depress and hold DS5 21 to 26	Continuity	
	Disconnect pin 21 21 to 26	No Continuity	
	Release DS5		
	Connect pin 21 to ground		
	DS3	Depress and hold DS3 21 to 26	Continuity
	Release DS3 21 to 26	No Continuity	
DS3	Disconnect pins 19, 21		
	Depress DS3, release 17 to 1	Continuity while depressed	
	Depress DS4, release 15 to 1	Continuity while depressed	
	Depress DS5, release 9 to 1	Continuity while depressed	
	Depress DS6, release 13 to 1	Continuity while depressed	
	Depress DS7, release 11 to 1	Continuity while depressed	
	S1B	26 to 27	No Continuity
	Set handset on hook 26 to 27	Continuity	
		<u>J2 Pins</u>	
	DS10	36 to 34	Continuity
36 to 35		No Continuity	
Depress DS10, release 36 to 35		Continuity	
36 to 34		No Continuity	
Depress DS10, release 36 to 34		Continuity	
	<u>65V11226-1,-2 (J2 Pins)</u>		
DS9	Depress DS9, release 39 to 38	Continuity while depressed	
	<u>65V11226-3 (J2 Pins)</u>		
DS9	Depress DS9, release 40 to 37	Continuity while depressed	

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Component Tested	Procedure	Required Results																																				
DS11	<u>65V11226-1 (J2 Pins)</u> Depress DS11, release, and repeat 42 to 43	Alternating con and no con																																				
<u>Step</u>	<u>65V11226-1, -2, -3 (Room Control Unit Tests, all J2 pins)</u>																																					
1	Set RCU channel select to 2																																					
2	Connect ohmmeter pin 1 to pin 2																																					
3	Rotate volume control through its full range	Ohmmeter must vary smoothly from less than 100 ohms (large dot in window) to 50k (small dot in window)																																				
4	Connect ohmmeter pin 3 to pin 4																																					
5	Rotate volume control through its full range	Ohmmeter must indicate same as above																																				
6	Set volume control to minimum	Ohmmeter must indicate 50k $\pm 10\%$																																				
7	Set channel selector, and measure between listed pins:																																					
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Channel</u></th> <th style="text-align: left;"><u>Pins</u></th> <th></th> </tr> </thead> <tbody> <tr><td>3</td><td>5 to 6</td><td>50k $\pm 10\%$</td></tr> <tr><td>3</td><td>7 to 8</td><td>50k $\pm 10\%$</td></tr> <tr><td>4</td><td>9 to 10</td><td>50k $\pm 10\%$</td></tr> <tr><td>4</td><td>11 to 12</td><td>50k $\pm 10\%$</td></tr> <tr><td>1</td><td>25 to 26</td><td>25k $\pm 10\%$</td></tr> <tr><td>5</td><td>13 to 14</td><td>25k $\pm 10\%$</td></tr> <tr><td>6</td><td>15 to 16</td><td>25k $\pm 10\%$</td></tr> <tr><td>7</td><td>27 to 28</td><td>25k $\pm 10\%$</td></tr> <tr><td>8</td><td>19 to 20</td><td>25k $\pm 10\%$</td></tr> <tr><td>9</td><td>21 to 22</td><td>25k $\pm 10\%$</td></tr> <tr><td>10</td><td>23 to 24</td><td>25k $\pm 10\%$</td></tr> </tbody> </table>	<u>Channel</u>	<u>Pins</u>		3	5 to 6	50k $\pm 10\%$	3	7 to 8	50k $\pm 10\%$	4	9 to 10	50k $\pm 10\%$	4	11 to 12	50k $\pm 10\%$	1	25 to 26	25k $\pm 10\%$	5	13 to 14	25k $\pm 10\%$	6	15 to 16	25k $\pm 10\%$	7	27 to 28	25k $\pm 10\%$	8	19 to 20	25k $\pm 10\%$	9	21 to 22	25k $\pm 10\%$	10	23 to 24	25k $\pm 10\%$	
<u>Channel</u>	<u>Pins</u>																																					
3	5 to 6	50k $\pm 10\%$																																				
3	7 to 8	50k $\pm 10\%$																																				
4	9 to 10	50k $\pm 10\%$																																				
4	11 to 12	50k $\pm 10\%$																																				
1	25 to 26	25k $\pm 10\%$																																				
5	13 to 14	25k $\pm 10\%$																																				
6	15 to 16	25k $\pm 10\%$																																				
7	27 to 28	25k $\pm 10\%$																																				
8	19 to 20	25k $\pm 10\%$																																				
9	21 to 22	25k $\pm 10\%$																																				
10	23 to 24	25k $\pm 10\%$																																				
8	Set signal generator for 1000 Hz, 150 ohms output impedance, 1-volt ac output																																					
9	Connect R1 between pins 29 and 30, and R2 between pins 31 and 32																																					
10	Ground pins 29 and 31																																					
11	Connect signal generator input across pins 25 and 26																																					
12	Set channel selector to 1, volume control to maximum (large dot in window)																																					
13	Measure volts ac	900 millivolts minimum at pins 30 and 32																																				

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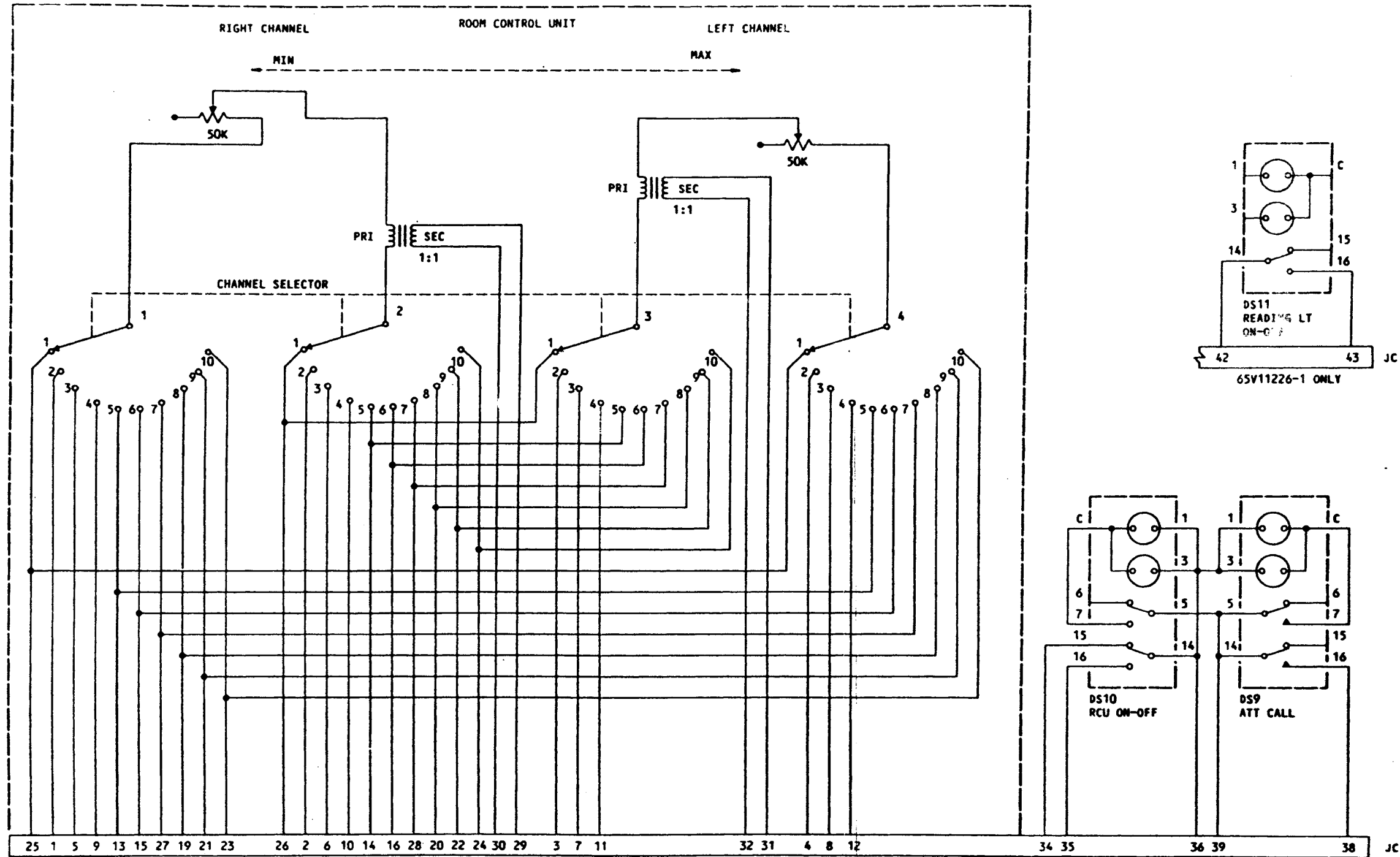
65C11226

Component Tested	Procedure	Required Results
	<u>65V11226-41</u>	
S1C/S2	Set handset on hook	No continuity
SLA	Measure between pins 10 to 11	No continuity
SLB/R1	9 to 8	6.2k ±5%
SLB	6 to 7	No continuity
SLA	Lift handset from hook 6 to 7	Continuity
SLB	9 to 8	Continuity
S2	10 to 11	No continuity
S2	Set handset on hook 10 to 3	Continuity while depressed
S2	Depress S2, release 10 to 3	Continuity while depressed
S2	Depress S2, release 10 to 11	Continuity while depressed
	Connect 28 v dc to pin 10	
	Connect ground to pin 9	
S1/ML/K1 Diodes	Connect 28 v dc to pin 2 for one to 2 seconds, disconnect	Sonalert shall sound and S2 illuminate when connection made. Sound shall stop at disconnect, but S2 shall remain illuminated
S1	Lift handset from hook	S2 shall extinguish
	Connect 28 v dc momentarily to pin 2	S2 shall illuminate and sonalert shall sound while connection in place
	Remove all connections	
	<u>65V11226-55</u>	
	Set handset on hook	
S2	Connect 28 v dc to pin 19	S2 illuminated
S3	Connect pin 18 to ground	S3 illuminated
S4	Connect pin 10 to ground	S4 illuminated
S5	Connect pin 8 to ground	S5 illuminated
	Connect pin 16 to ground	Indicators extinguished
	Remove all ground connections	
K1	Measure between pins 21 to 28	Continuity
	2 to 3	Continuity
	2 to 1	No Continuity
	Connect pin 21 to ground	
S1D	2 to 1	No Continuity
S1D/K1	Lift handset from hook 2 to 1	Continuity
K1	2 to 3	No Continuity
	21 to 28	No Continuity

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Component Tested	Procedure	Required Results	
S4/K1	Depress S4, hold	21 to 26	Continuity
S4/S5	Release S4	21 to 26	No Continuity
S5	Depress S5, hold	21 to 26	Continuity
K1	Disconnect pin 21	21 to 26	No Continuity
	Release S5		
S4	Depress S4, release	1 to 9	Continuity while depressed
S5	Depress S5, release	1 to 17	Continuity while depressed
S3	Depress S3, release	1 to 11	Continuity while depressed
S1C		24 to 22	Continuity
		24 to 25	No Continuity
S1A		26 to 27	No Continuity
	Set handset on hook	26 to 27	Continuity
S1C		24 to 25	Continuity
		24 to 22	No Continuity
	Connect pin 20 to 28 v dc		
M1	Connect pin 21 to ground		Sonalert shall sound
	Disconnect pins 20, 21, 19		

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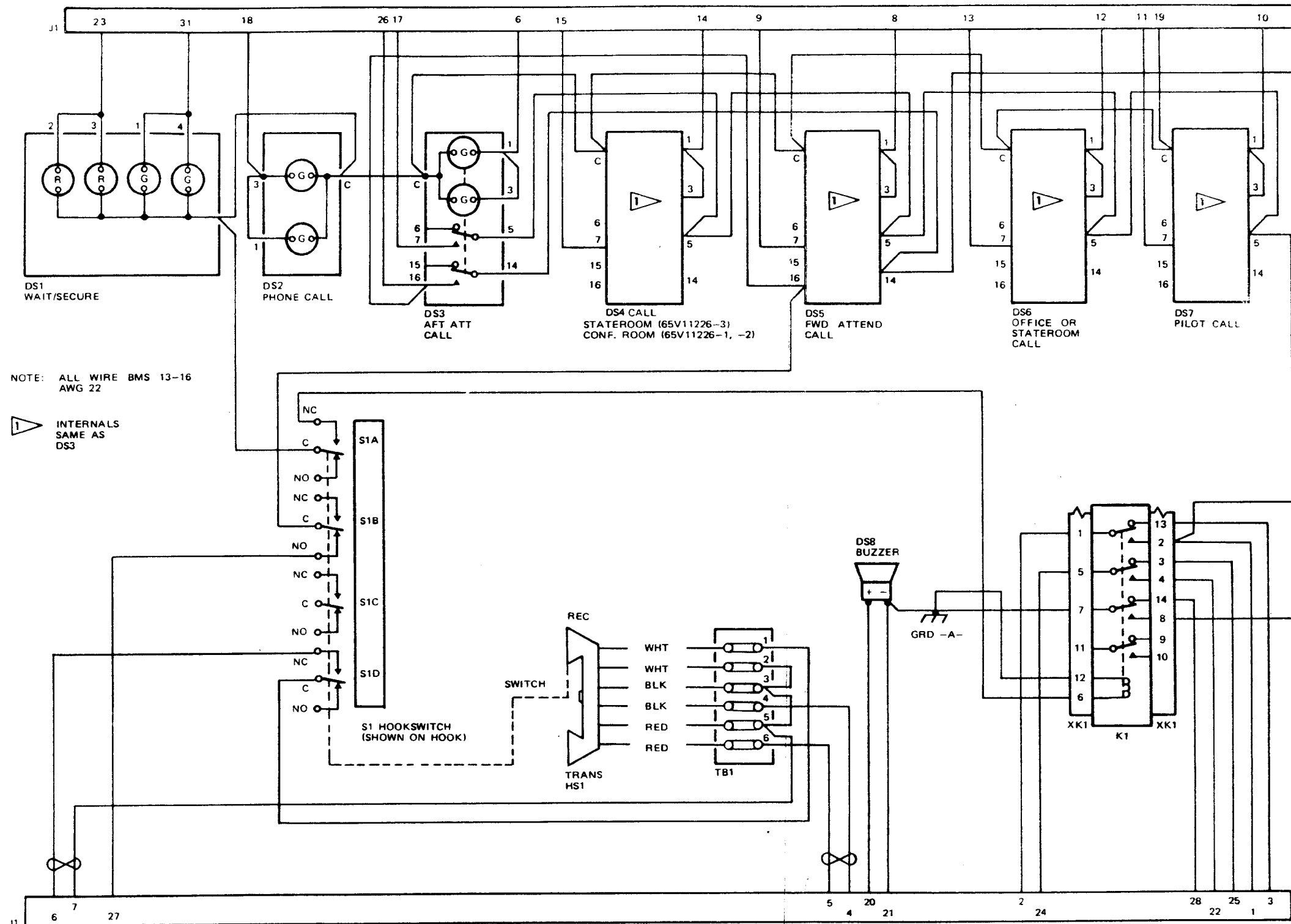
65V11226-1, -2, -3

Schematic Diagram
Figure 3 (Sheet 1)

40 37
65V11226-3 ONLY

1 3 14 15 16
DS11
READING LT
ON-OFF
42 43 JC
65V11226-1 ONLY

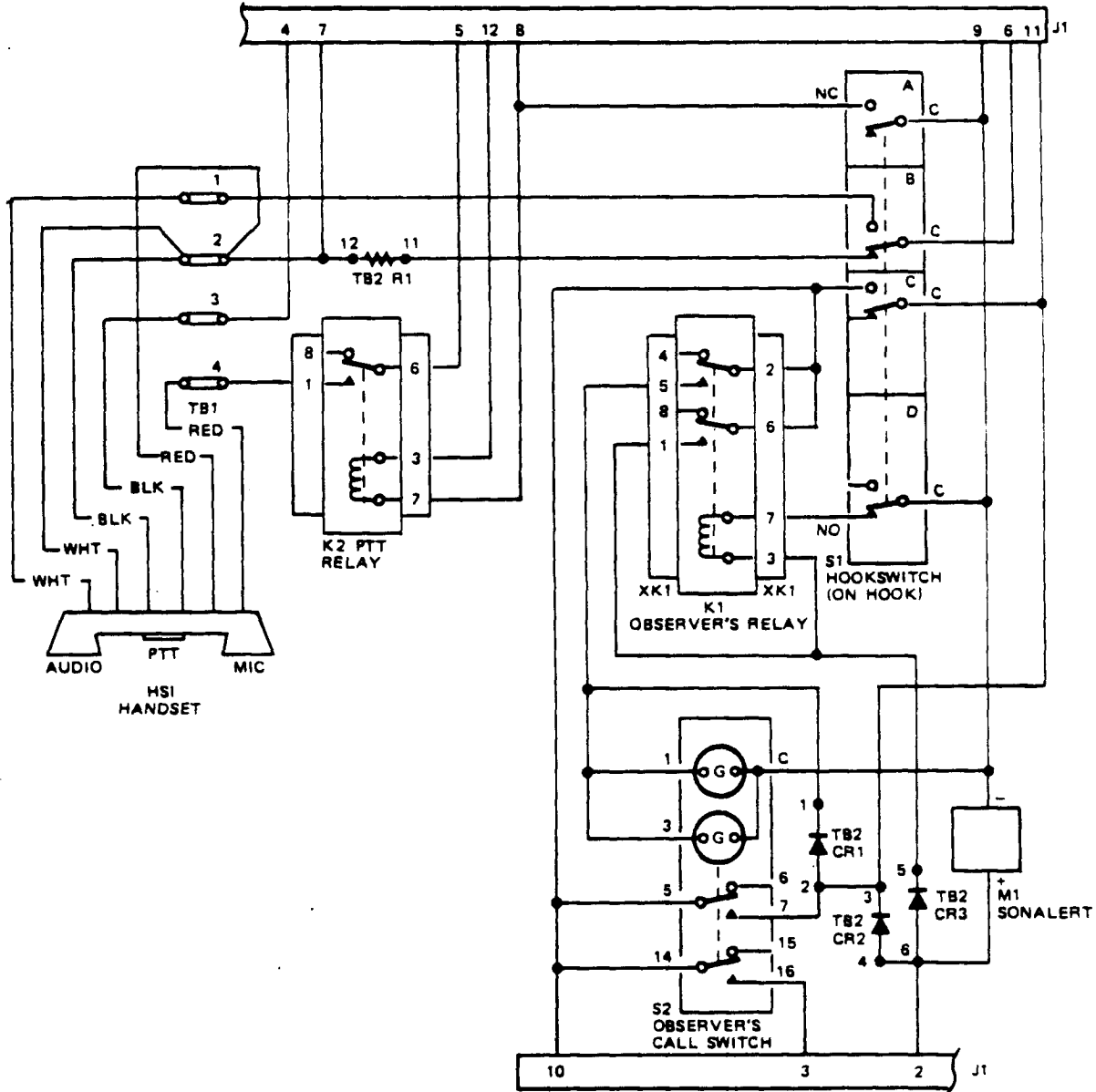
1 3 6 7 15 16 17 14 15 16
DS10
RCU ON-OFF
DS9
ATT CALL
34 35 36 39 38 JC



65V11226-2,3

Schematic Diagram
Figure 3 (Sheet 2)

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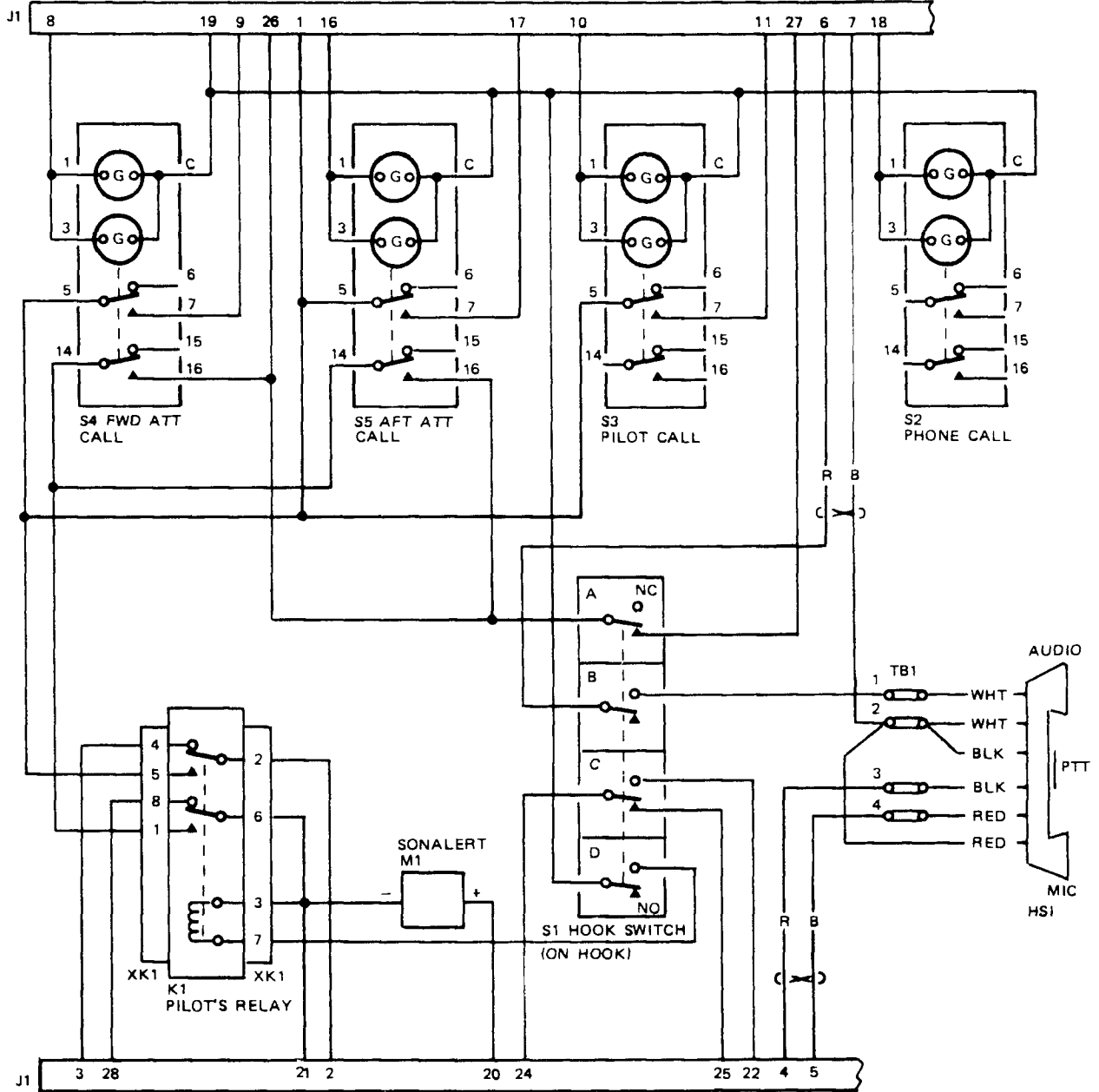


65V11226-41

Schematic Diagram
 Figure 3 (Sheet 3)

Jan 5/79

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65V11226-55

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4. ILLUSTRATED PARTS LISTVENDORS

V08205 RENTON COIL SPRING CO., P.O. BOX 328, 325 BURNETT NORTH, RENTON,
WASHINGTON 98055

V10875 CARTER ENGINEERING CO., 232 SOUTH GLASGOW, INGLEWOOD, CALIFORNIA
90301

V12522 STACOSWITCH INC., 1139 BAKER ST., COSTA MESA, CALIFORNIA 92626

V71468 ITT CANNON ELECTRIC, 666 E DYER ROAD, SANTA ANA, CALIFORNIA 92705

V75382 KULKA ELECTRIC CORP., 633 S. FULTON AVE., MT. VERNON, NEW YORK 10550

V83014 HARTWELL CORP., 900 S. RICHFIELD ROAD, PLACENTIA, CALIFORNIA 92670

V89231 GREYBAR ELECTRIC, 1911 UNION, OAKLAND, CALIFORNIA 94607

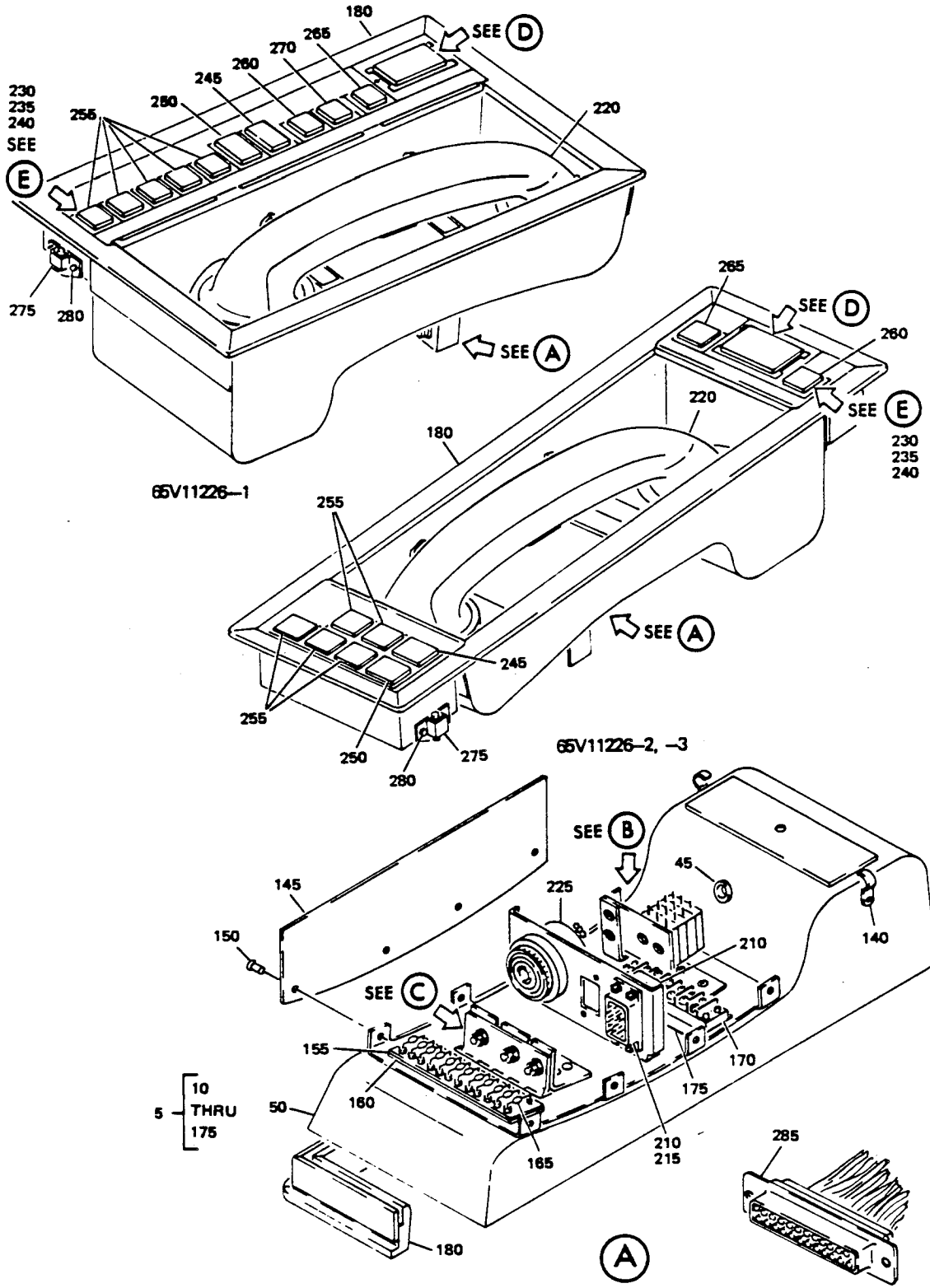
V90303 MALLORY BATTERY CO., SO. BROADWAY, TARREYTOWN, NEW YORK 10591

V91663 ARMEL ELECTRONICS, 1601 - 75TH ST., NORTH BERGEN, NEW JERSEY 07047

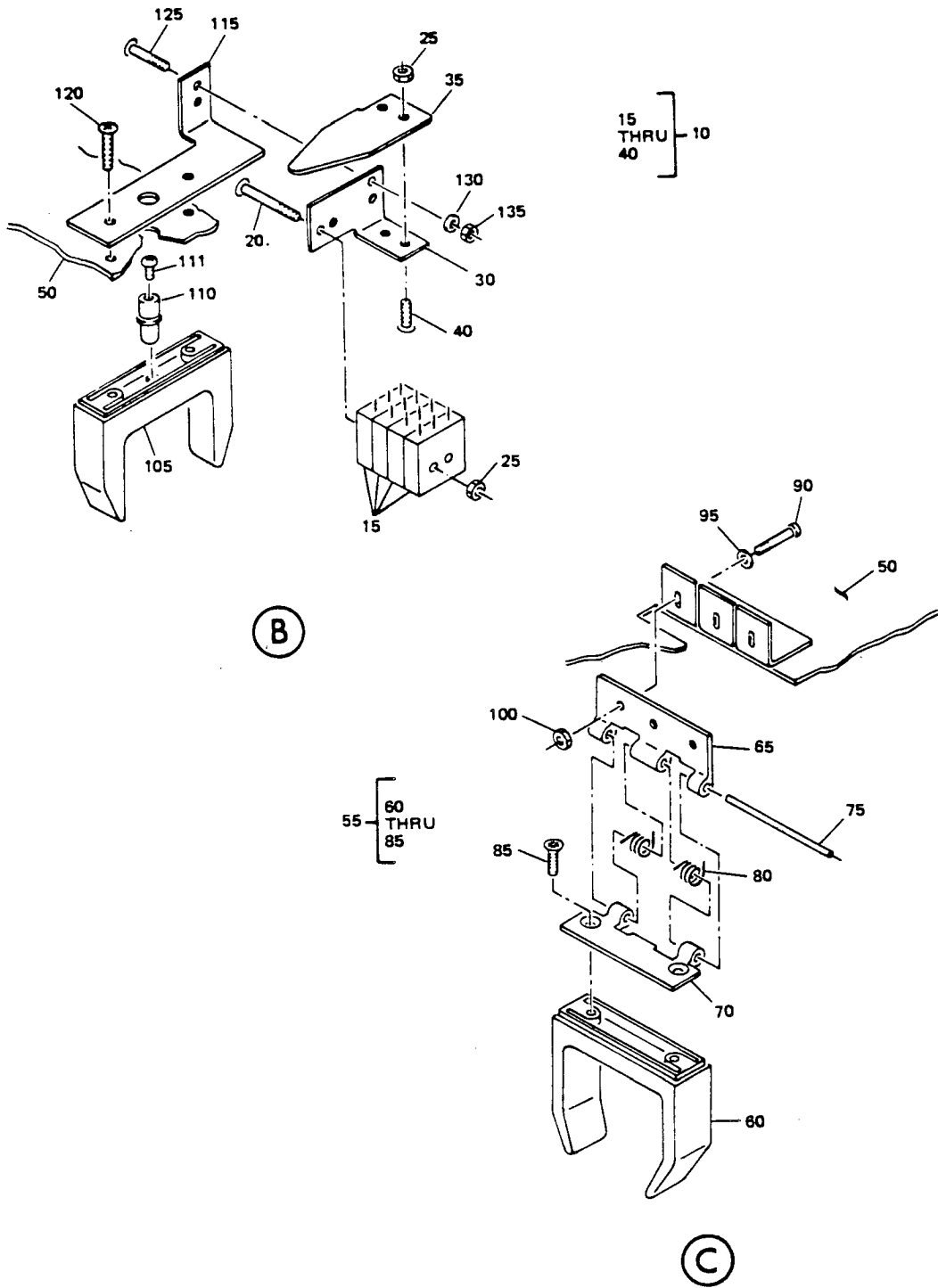
V91833 KEYSTONE ELECTRONICS CORP., 49 BLEEKER ST., NEW YORK, NEW YORK 10012

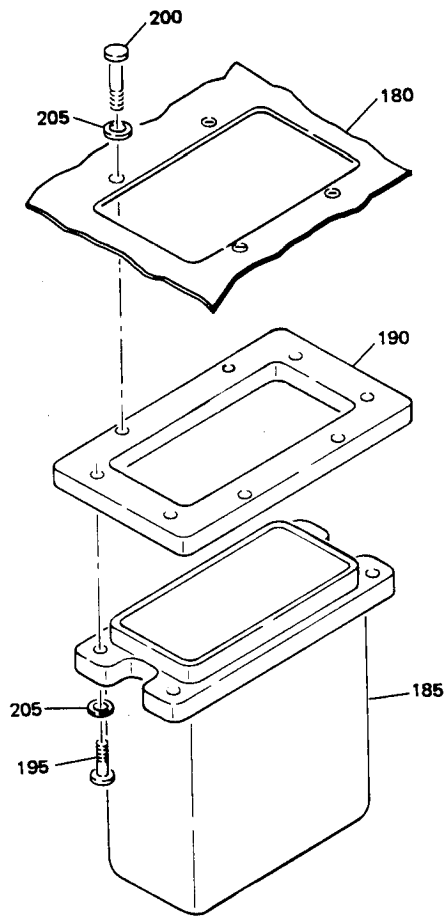
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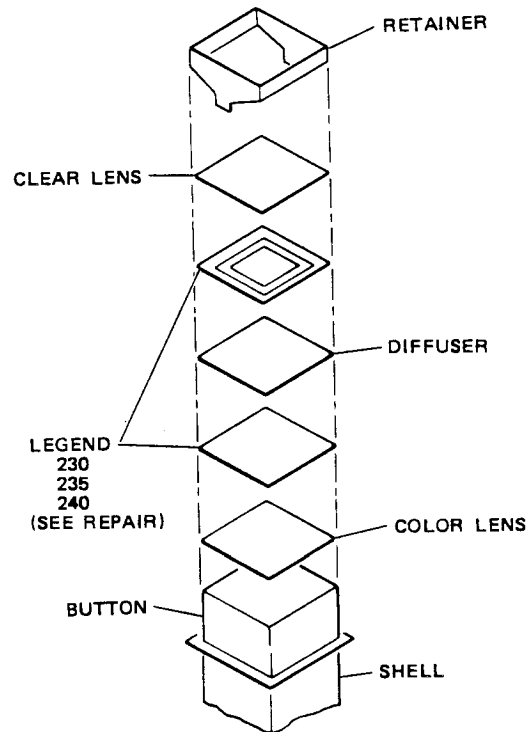


Telephone Assembly
 Figure 4 (Sheet 1)





(D)



(E)

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FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	N O M E N C L A T U R E							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
4-											
1	65V11226-1									A	
1	65V11226-2									B	
1	65V11226-3									C	
5	65V11226-11										1
10	65V11226-13										1
15	1SX1H58										4
20	BACSI2BF02-16										2
25	BACN1ODN26										4
30	65V11223-8										1
35	65V11223-9										1
40	BACSI2BF02-4										2
45	BACG20C10A										1
50	65V11225-1										1
55	65V11223-1										1
60	AT540680										1
65	65V11223-13										1
70	65V11223-4										1
75	MS20253P2-200										1
80	RCS3381										2
85	NAS514F1032-6										2
90	BACSI2CB04-6										3
95	AN960PD4										3
100	BACN10JC04										3
105	65V11223-7										1
110	65V11223-6										1
111	NAS600-4P										1
115	65V11223-5										1
120	NAS514F1032-8										2
125	BACSI2BF02-4										2
130	NAS620-2										2
135	BACN1ODN26										2
140	BACCL0DK3										2
145	65V11225-6										2
150	BACR15DA4H										8
155	MOD15512SP1										1
160	MOD15512SP2										1
165	1N5061										12
170	600A6										1
170	600-6										1
175	MS600-6-1A										1

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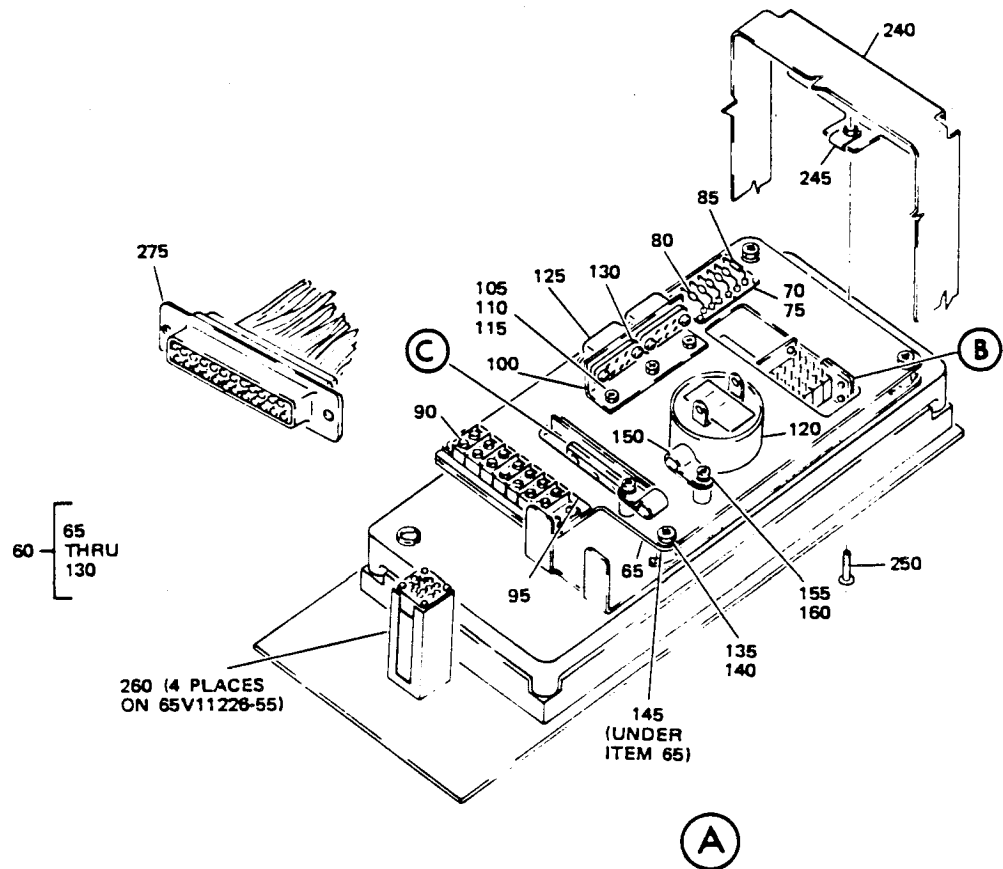
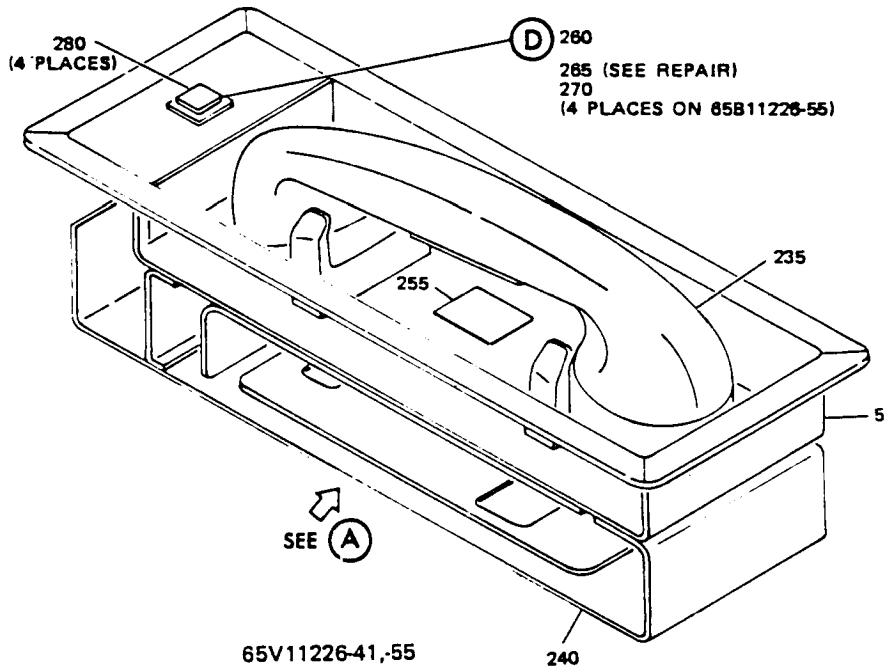
FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	N O M E N C L A T U R E							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
4-											
180	65V11224-2									A	1
180	65V11224-1									B	1
180	65V11224-12									C	1
185	65V11028-1										1
190	65V11223-15										1
195	BACSL2BEO2-3										4
200	BACSL2BEO2-5										4
205	AN960PD3L										8
210	BACR13CE2										1
215	HRCC5KM										1
220	CE525-15-1										1
225	SC628										1
230	65V10905-14									B	1
235	65V10905-15									C	1
240	65V10905-16									A	1
245	2R01-2C60X8-RGXX-XXXX										1
250	2R01-2C10X8-GXXX-XXXX										1
255	2S2A-2C10X8-GXXX-XXXX										5
260	2S2A-2C10X8-AXXX-XXXX										1
265	2S2B-2C10X8-BXXX-XXXX										1
270	2S2B-2C10X8-WXXX-XXXX									A	1
275	131										2
280	BACSL2CBO4-3										4
285	DC37P										1
290	387										44
290	387									A	40
										BC	40

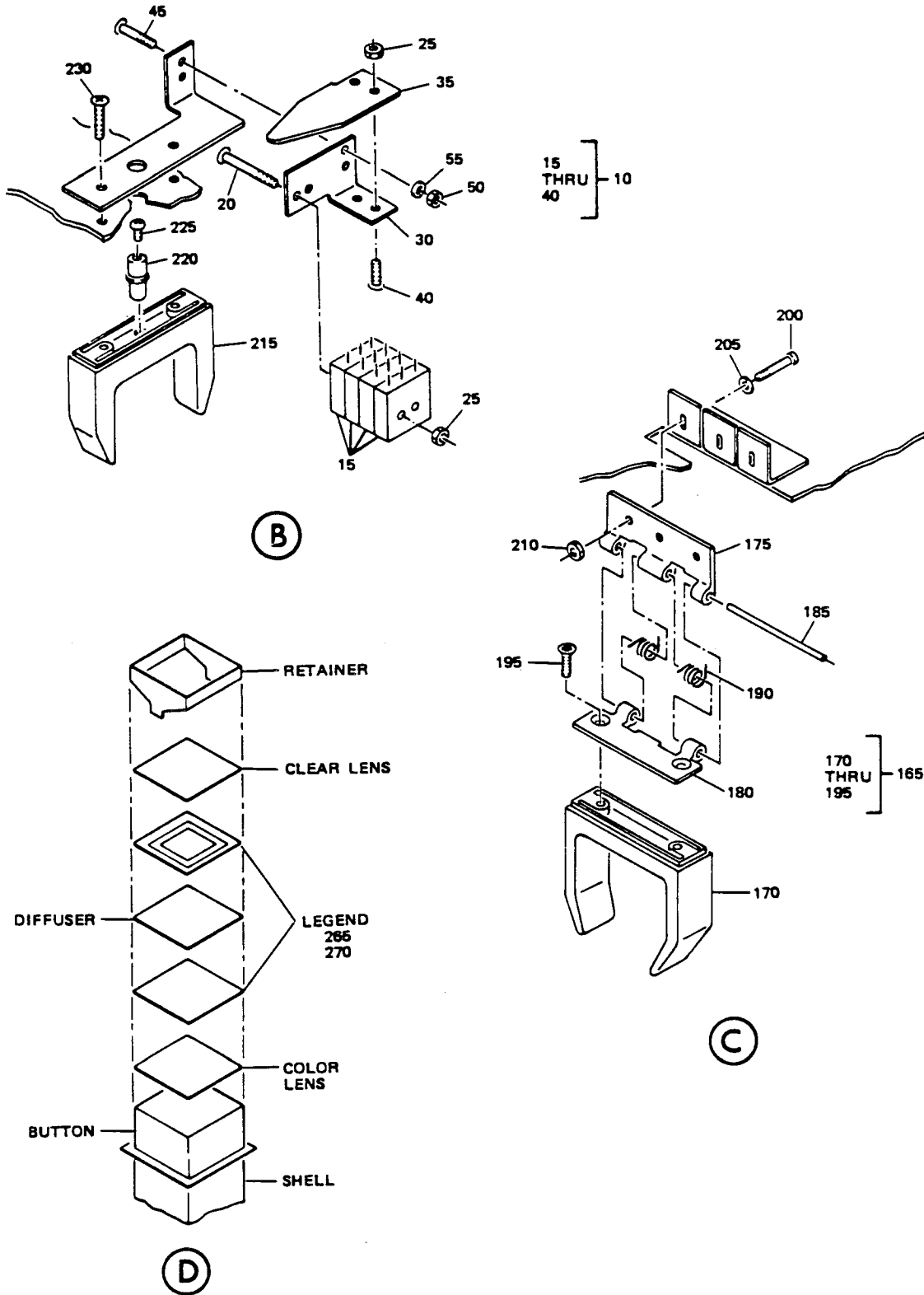
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FIG. 4 REFERENCE DESIGNATION INDEX (SEE SCHEMATIC DIAGRAM)

REFERENCE DESIGNATION	PART NUMBER	ITEM NO.
DSL	2R01-2C60X8-RGXX-XXXX	245
DS2	2R01-2C10X8-GXXX-XXXX	250
DS3 THRU DS7	2S2A-2C10X8-GXXX-XXXX	255
DS9	2S2A-2C10X8-AXXX-XXXX	260
DSL0	2S2B-2C10X8-BXXX-XXXX	265
DSL1	2S2B-2C10X8-WXXX-XXXX	270
HSL	CE525-15-1	220
JL	DC37P	285
KL	BACR13CE2	210
TBL	600A6	170
TBL	600-6	170
XKL	HRCC5KM	215
DS8	SC628	225
SLA THRU SLD	ISXLH58	15

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FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	N O M E N C L A T U R E							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
5-											
1	65V11226-41									A	
1	65V11226-55									B	
5	65V11226-24										1
10	65V11226-13										1
15	ISX1H58										4
20	BACSL2BFO2-16										2
25	BACNLODN26										4
30	65V11223-8										1
35	65V11223-9										1
40	BACSL2BFO2-4										2
45	BACSL2BFO2-4										2
50	BACNLODN26										2
55	NA3620-2										2
60	65V11226-42										1
65	65V11223-26										1
70	65V11226-38										1
75	65V11226-39										1
80	1N5061										5
85	RLO7C6200GM										1
90	600A6										1
90	600-6										1
95	MS600-6XP1A										1
100	69-60206-3										1
105	BACSL2CB06-5										3
110	AN960PD6L										3
115	BACNLOJCO6										3
120	SC628										1
125	BACR13CD2										2
130	HRTSL7KM										2
135	BACSL2CB3-4										4
140	AN960PD10L										4
145	AN960PD10										AR
150	BACCL0DK										1
155	BACSL2CB06-4										1
160	BACNLOJCO6										1
165	65V11223-16										1
170	AT540680										1
175	65V11223-20										1
180	65V11223-19										1
185	MS20253P2-200										1

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FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	N O M E N C L A T U R E							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
5-											
190	RCS3381										2
195	NAS514P1032-6										3
200	BAC512CB04-6										3
205	AN960PD4										3
210	BACN10JC04										3
215	65V11223-17								A		1
215	65V11223-7								B		1
220	65V11223-6										1
225	NAS600-4P										1
230	NAS514P1032-8										2
235	CE525-45-1								A		1
235	CE525-15-1								B		1
240	65V11223-22										1
245	BACN10FX61										2
250	NAS514P632-5										2
255	BAC27DPA2746										1
260	2S2A1C10X8-GXXX-XXXX								A		1
260	2S2A1C10X8-GXXX-XXXX								B		4
265	65V10905-22								A		1
265	65V10905-12								B		1
270	65V10905-13								B		1
275	DEMA15PWS								A		1
275	DCMA37SWS								B		1
280	387								A		4
280	387								B		16

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FIG. 5 REFERENCE DESIGNATION INDEX (SEE SCHEMATIC DIAGRAM)

REFERENCE DESIGNATION	PART NUMBER	ITEM NO.
CR1-CR5	LN5061	80
HSL	CE525-45-1	225
HSL	CE525-15-1	225
J1	DEMA15PWS	265
J1	DCMA37SWS	265
K1, K2	BACR13CD2	125
M1	SC628	120
R1	RL0706200GM	85
SLA-SLD	ISXLH58	15
S2-S5	2S2A1C10X8-GXXX-XXXX	250
TB1	600A6	90
TB1	600-6	90
TB2	65V11226-38	70
XK1, XK2	HRCC17KM	130