

TECHNICAL MANUAL

**OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING DEPOT REPAIR PARTS AND SPECIAL TOOLS LIST)
FOR**

**COMMUNICATIONS CENTRAL AN/MSQ-71
NSN 5895-00-443-9988**

This manual supersedes TM 32-5895-227-24P 1 March 1977.

**HEADQUARTERS, DEPARTMENT OF THE ARMY
JANUARY 1982**

WARNING

DANGEROUS VOLTAGE
is present in the electrical circuits.

DEATH ON CONTACT

may result. Use all safety precautions and be extremely careful when performing electrical troubleshooting and repairs.

WARNING

TRICHLOROETHANE FUMES ARE TOXIC.

Provide thorough ventilation whenever used. **DO NOT USE NEAR HEAT OR AN OPEN FLAME.** Trichloroethane is not flammable, but exposure of the fumes to an open flame or hot metal forms highly toxic phosgene gas.

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**OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT,
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(INCLUDING DEPOT REPAIR PARTS AND SPECIAL TOOLS LIST)**

FOR

COMMUNICATIONS CENTRAL AN/MSQ-71

NSN 5895-00443-9988

Current as of 1 May 1981

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Electronics Materiel Readiness Activity, ATTN: SELEM-ME-E, Vint Hill Farms Station, Warrenton, Virginia 22186. A reply will be furnished to you.

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SAFETY SUMMARY

The following are general safety precautions that are not related to any specific procedure and therefore do not appear elsewhere in this publication. These are recommended precautions that personnel must understand and apply during many phases of operation and maintenance.

KEEP AWAY FROM LIVE CIRCUITS

Operating personnel must at all times observe all safety regulations. Do not replace electrical components or make electrical repairs or adjustments with the power on.

DO NOT SERVICE OR ADJUST ALONE

Under no circumstances should any person replace electrical components or make electrical repairs or adjustments except in the presence of someone who is capable of rendering aid.

RESUSCITATION

Personnel working with or near electrical circuits should be familiar with modern methods of resuscitation.

The following warnings and cautions appear in the text of this manual, and are repeated here for emphasis.

WARNING

The fumes of trichloroethane are toxic. Provide thorough ventilation whenever used. **DO NOT USE NEAR HEAT OR AN OPEN FLAME.** Trichloroethane is not flammable, but exposure of the fumes to an open flame or hot metal forms highly toxic phosgene gas (page 5-5).

WARNING

Dangerous voltage is present in the electrical circuits.

Death on contact may result. Adhere to all safety precautions, and be extremely careful when performing electrical troubleshooting and repairs (page 5-5).

CAUTION

Be careful when uncrating and unpacking the AN/MSQ-71 components. Careless or haphazard use of tools may result in damage to package contents (page 2-1).

CAUTION

Do not paint nameplates, panel nomenclature, plastic surfaces, or electrical switches and contacts (page 5-1).

CAUTION

Before using any ohmmeter to test transistors or transistor circuits, check the open circuit voltage across the ohmmeter test leads. Do not use the ohmmeter if the open circuit voltage exceeds 1.5 volts. Also, since the RX1 range normally connects the ohmmeter internal battery directly across the test leads, the comparatively high current (50 ma or more) may damage the transistor under test. As a general rule it is not recommended that the RX1 range of any ohmmeter be used when testing low power transistors (page 7-2).

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1 SCOPE. This manual provides operator/crew, organizational, direct support, and general support instructions for the installation and maintenance of Communications Central AN/MSQ-71 (figure 1-1). A repair parts list is also included.

1-2 MAINTENANCE FORMS AND RECORDS. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS).

1-3 DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE. The AN/MSQ-71 will be destroyed to prevent enemy use in accordance with instructions provided in TM 750-244-2, Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command).

1-4 ADMINISTRATIVE STORAGE. Administrative storage will be in accordance with instructions provided in TM 740-90-1, Administrative Storage of Equipment.

1-5 CALIBRATION. No calibration of the equipment in this group is required.

1-6 REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR's). If your AN/MSQ-71 needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at US Army Electronics Materiel Readiness Activity, ATTN: SELEM-ME-F, Vint Hill Farms Station, Warrenton, Virginia 22186. We'll send you a reply.

Section II. DESCRIPTION AND DATA

1-7 PURPOSE AND USE. The AN/MSQ-71 is a control center used to detect, monitor, and analyze local and remote radio frequency signals. A local central station and up to 36 remote outstations are combined to form an operational communications complex of wide-ranging effectiveness. All activities are coordinated by the central station.

1-8 DESCRIPTION.

a. General. The components in the AN/MSQ-71 baseline configuration are listed in tables 1-1 and 1-2. Other components, such as the central station housing and racks, the central station and outstation accessories, and antennas (all of which may vary, depending on overall configurations) are identified in the typical arrangements shown in figures 1-1 through 1-4. Refer to the station specifications for detailed coverage of these items.

b. Telephone Set TA-676/G. Refer to figure 3-1.

(1) One TA-676/G (STANDARD) is used in each outstation.

(2) Four TA-676/G's (SPECIAL) are used in the central station. (The CCC button on these sets has been replaced with a cap.) (3) One TA-676/G (SUPERVISOR) is used in the central station. (Amplifier No. 2 on this set has been replaced with a strap.)

c. Radio Receiver R-390A/URR. Refer to TM 11-5820358-35 for a description of the R-390A/URR.

d. Communications Control Console (CCC) OA-7735/G. Refer to figure 3-2. Two CCC's are used in the central station. The CCC is rack-mounted and has 109 pushbuttons that are used for intercommunication purposes and for monitor switching.

e. Intercommunication Switchboard SB-2601/G. Refer to figure 3-3. The intercommunication switchboard is a rack-mounted unit which has 10 pushbutton switches and 10 sets of thumbwheel switches. It is used in the central station to transfer outstations from the CCC to the Radio Intercept Control Switchboard (RICS) SB-2602/G.

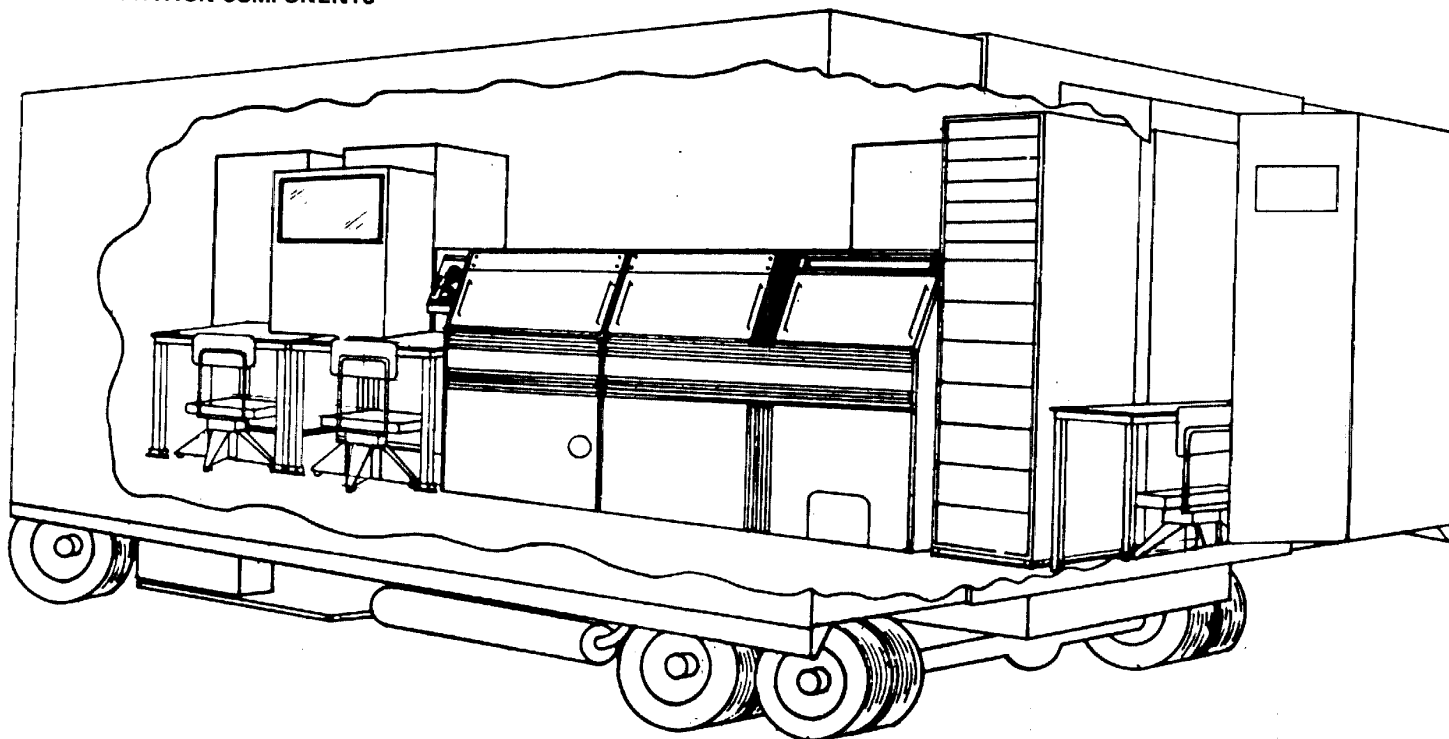
f. Antenna Coupler CU-872A/4U. Refer to NAVSHIPS 94490 for a description of the CU-872A/U.

g. Teletypewriter Set AN/TGC-14. Refer to TM I 15815-206-12 for a description of the AN/TGC-14.

h. Radio Intercept Control Switchboard (RICS) SB2602/G. Refer to figure 3-4. The RICS is a rack-mounted unit used in the central station for intercommunication between 10 or less outstations and the central station.

- TELEPHONE SET TA-676/G (STANDARD)
- CONNECTOR ASSEMBLY MX 7142/G
- CONNECTOR ASSEMBLY MX 7143/G
- MONITOR CONTROL PANEL SB-2600/G

OUTSTATION COMPONENTS



CENTRAL STATION

Figure 1-1. Communications Central AN/MSQ-71, Typical

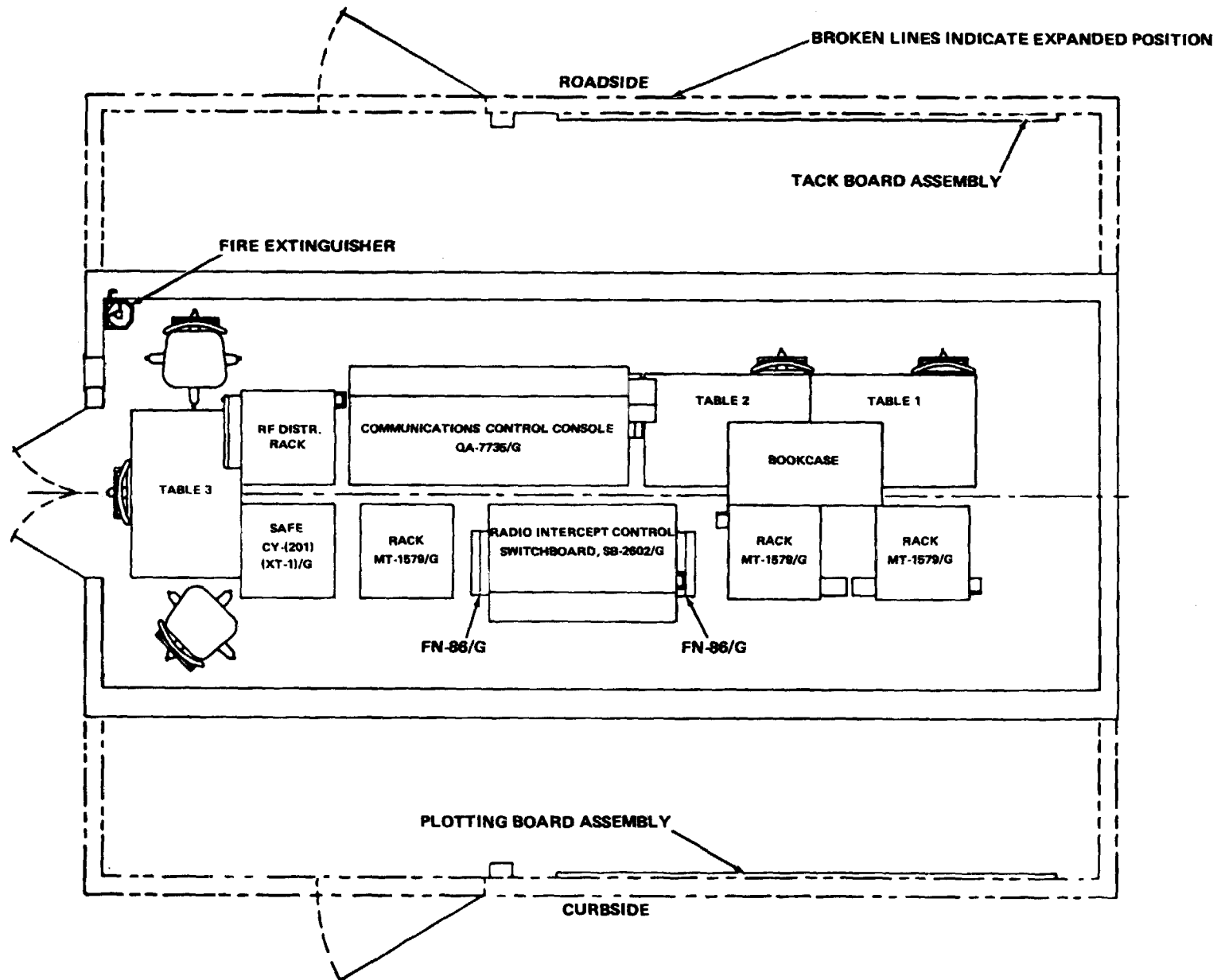


Figure 1-2. Central Station Floor Layout, Typical

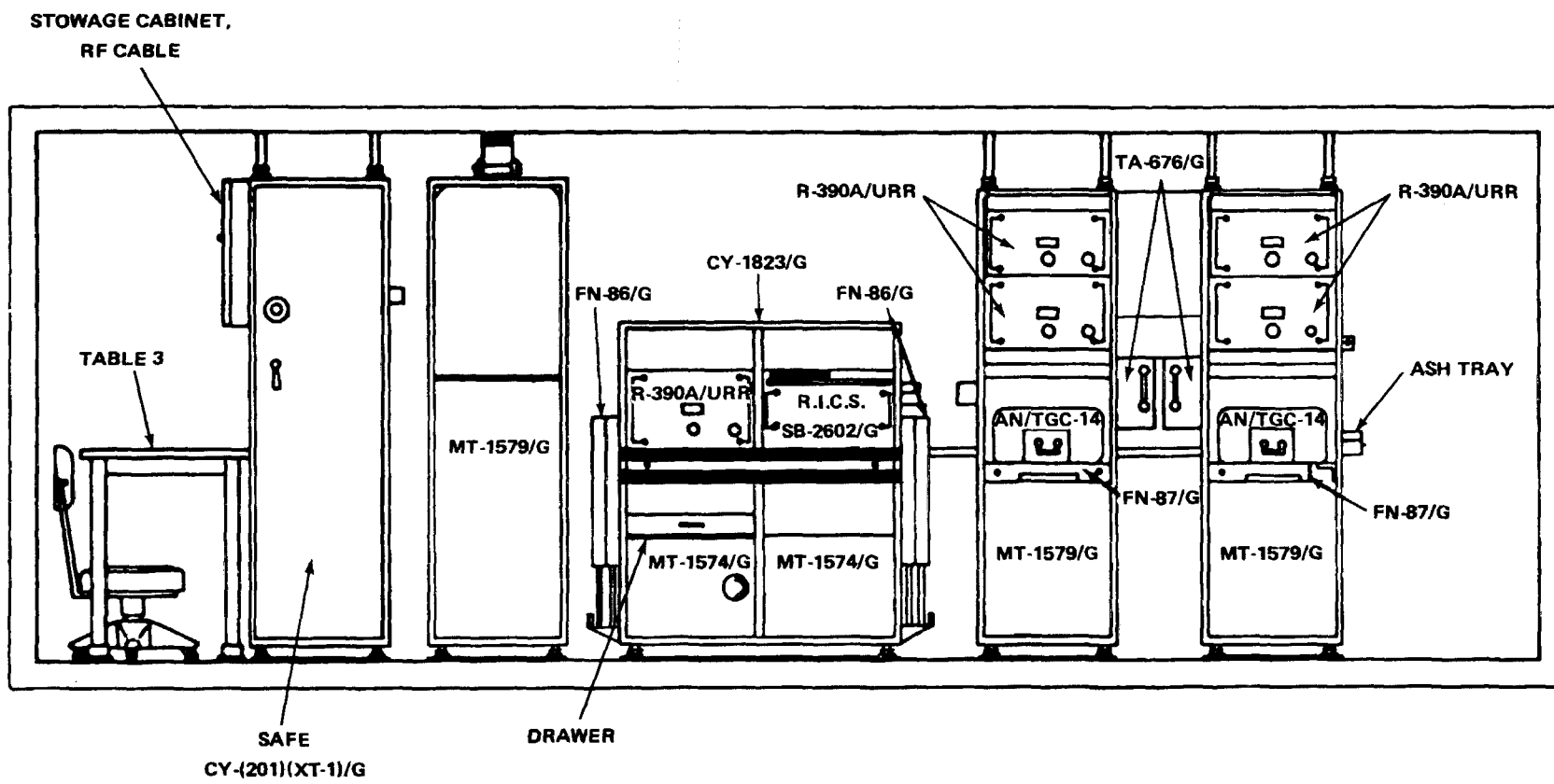


Figure 1-3. Central Station Roadside Layout, Typical

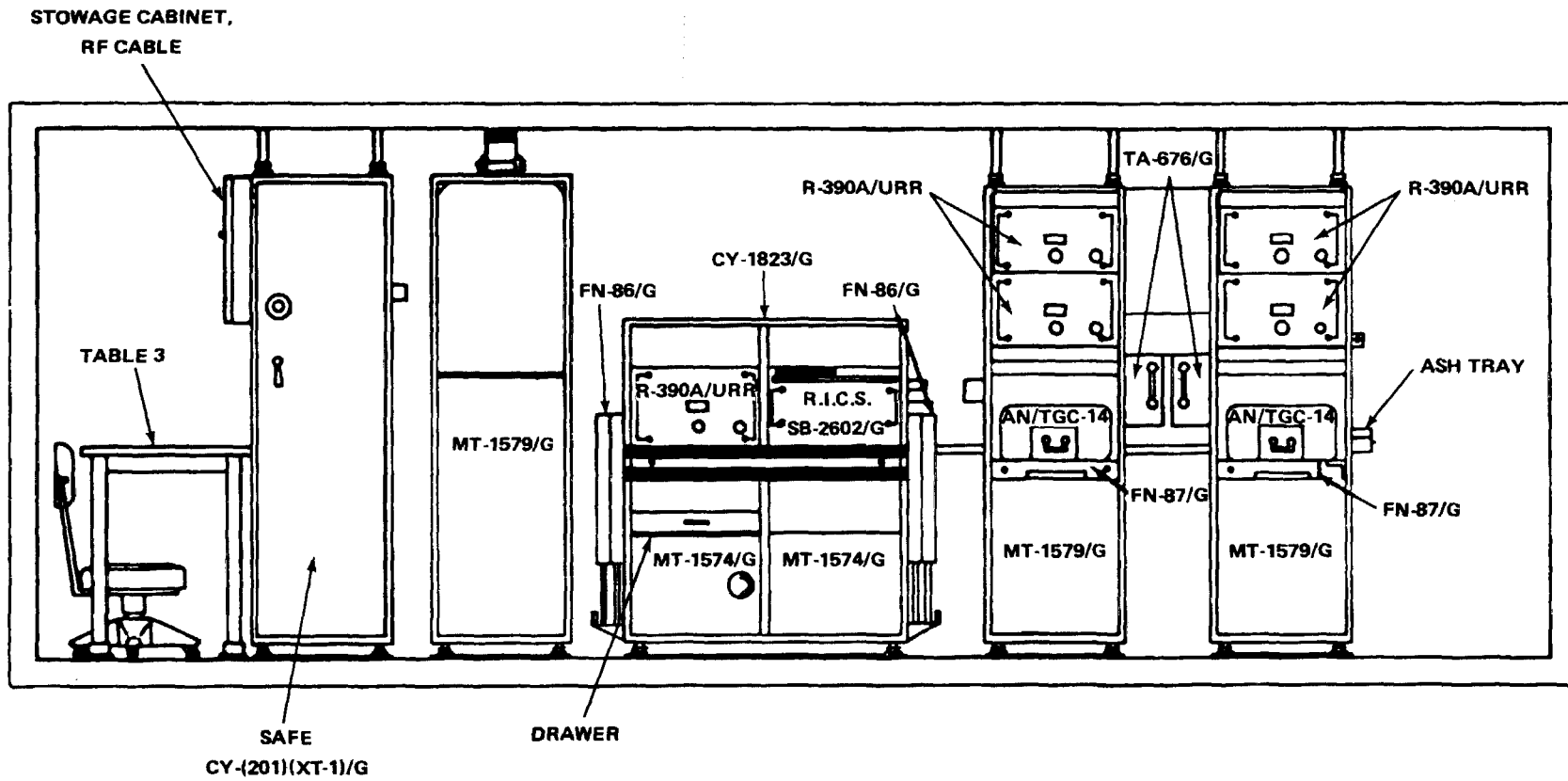


Figure 1-4. Central Station Curbside Layout, Typical

Table 1-1. Components of Communications Central AN/MSQ-71 Baseline Configuration

Component	Quantity	
	Central station	Outstation
Telephone Set TA-676/G:		
STANDARD		V
SPECIAL	4	
SUPERVISOR	1	
Radio Receiver R-390A/URR	6	
Communications Control Console (CCC) OA-7735/G	2	
Intercommunication Switchboard SB-2601/G	1	
Antenna Coupler CU-872A/U	5	
Teletypewriter Set AN/TGC-14	2	
Radio Intercept Control Switchboard (RICS) SB-2602/G	1	
Connector Assembly MX 7141/M	1	
Connector Assembly MX 7142/G		V
Connector Assembly MX 7143/G		V
Monitor Control Panel SB-2600/G		V

Table 1-2. Cable Assemblies of Communications Central AN/MSQ- 71 Baseline Configuration

Cable assembly	Quantity
1703-1-2135 (GR1-GR6)	1
1703-1-2136 (GR1-GR5)	1
1703-1-2137	1
1703-1-2138	1
1703-1-2139	1
1703-1-2140 (GR1-GR7)	1
1703-1-2141	1
1703-1-2142	4
1703-1-2143	8
1703-1-3007 (GR1-GR2)	1
1703-1-3009 (GR1-GR2)	1
1703-1-3128 (GR1-GR12)	1
1703-1-3129 (GR1-GR14)	1
1703-1-3129 (GR15)	2
1703-1-3129 (GR16-GR45)	1
1703-1-3130 (GR1-GR36)	1
1703-1-3131 (GR1-GR2)	1
1703-1-3132 (GR1-GR6)	1

i. Connector Assembly MX 7141/M. Refer to figure E-23. The MX 7141[M is a wall-mounted unit used in the central station to patch antennas to outstation and/or central station receiving equipment.

j. Connector Assembly MX 7142/G. Refer to figure E-24. The MX 7142/G is a feed through panel used in a single outstation configuration.

k. Connector Assembly MX 7143/G. Refer to figure E-25. The MX 7143/G is a feed through panel used in a multiple outstation configuration.

l. Monitor Control Panel SB-2600/G. Refer to figure 3-5. The monitor control panel is a rack-mounted outstation and has eight toggle switches and five pushbutton switches for switching operations.

m. Cable Assemblies. Cable assemblies required for a baseline configuration are listed in table 1-2.

1-9 DIFFERENCES BETWEEN MODELS. Tables 1-1 and 1-2 list the components for a baseline configuration.

Refer to the particular station specifications for differences in overall configurations.

1-10 TABULATED DATA.

a. *Baseline Configuration.*

Power requirements 115 Vac, 60 Hz, I-phase

b. *Overall Configuration.*

Power requirements Refer to particular station specifications

1-11 ITEMS COMPRISING AN OPERABLE EQUIPMENT. Tables 1-1 and 1-2 list the items that comprise a baseline configuration. Refer to the particular station specifications for items comprising an overall configuration.

CHAPTER 2

SERVICE UPON RECEIPT AND INSTALLATION

Section I. SYSTEMS PLANNING

2-1. SCOPE. Refer to the particular station configuration of the Communications Central AN/MSQ-71 specifications for systems planning of the overall 71.

Section II. SITE AND SHELTER REQUIREMENTS

2-2. SCOPE. Refer to the particular station overall configuration of the AN/MSQ-71 specifications for site and shelter requirements of the

Section III. SERVICE UPON RECEIPT OF MATERIEL

2-3. UNPACKING. The instructions below are for typical packaging. Unpack all items as applicable.

CAUTION

Be careful when uncrating and unpacking the AN/MSQ-71 components. Careless or hap hazard use of tools may result in damage to package contents.

- a. Unpacking Typical Consolidated Wooden Box.*
- (1) Using a metal-cutting tool, cut metal straps.
 - (2) Using a nailpuller, pull nails holding cover.
 - (3) Remove cover.
 - (4) Open moistureproof/vaporproof barrier bag.
 - (5) Remove corrugated cardboard inner carton, bags, and envelopes.

b. Unpacking Typical Multiple-Packed Wooden Box. A multiple-packed wooden box contains two or more identical, consolidated, corrugated cardboard cartons.

- (1) Using a metal-cutting tool, cut metal straps.
- (2) Using a nailpuller, pull nails holding cover.
- (3) Remove cover.
- (4) Remove and unpack cartons.

c. Unpacking Typical Wooden Crate.

- (1) Using a metal-cutting tool, cut metal straps at each corner edge of crate.
- (2) Using a nailpuller, remove nails holding cover.
- (3) Remove cover.
- (4) Remove nails from side and end crate panels.
- (5) Remove panels.
- (6) Remove paper wrapping.

2-4 CHECKING UNPACKED EQUIPMENT.

a. Inspect the equipment for damage during shipment. If the equipment has been damaged, report the damage on SF Form 364, Report of Discrepancy.

b. Check the equipment received against the component listings (tables 1-1 and 1-2) and the packing slip. Report all discrepancies .

NOTE

Equipment will be reported not ready only if components affecting safety or operation are missing.

c. Inspect the equipment for modifications. Modified equipment will have the MWO number on the nomenclature plate. Also inspect for application of current MWO's. (Current MWO's applicable to the equipment are listed in DA PAM 310-4.)

Section IV. INSTALLATION INSTRUCTIONS

2-5 TOOLS, TEST EQUIPMENT, AND MATERIALS REQUIRED FOR INSTALLATION. Table 2-1 lists standard tools required for the AN/MSQ-71 baseline configuration. Refer to the particular station specifications for overall configuration requirements.

2-6 INSTALLATION AND CONNECTIONS . See figure 2-1 and FO-1 for connections in the central station of the AN/MSQ-71 baseline configuration. Refer to the particular station specifications for overall configurations.

Table 2-1. Installation Tools

Item	Purpose	Applicable publication
Tool Kit, Electronic Equipment TK-100/G	As required for installation.	SC 5180-91-CL-S21
Tool Kit, Electronic Equipment TK-105/G	As required for installation.	SC 5180-91-CL-R07
Multimeter AN/USM-223	Test electrical circuits.	TM 11-6625-654-14

RF DISTRIBUTION RACK CABLING DIAGRAM

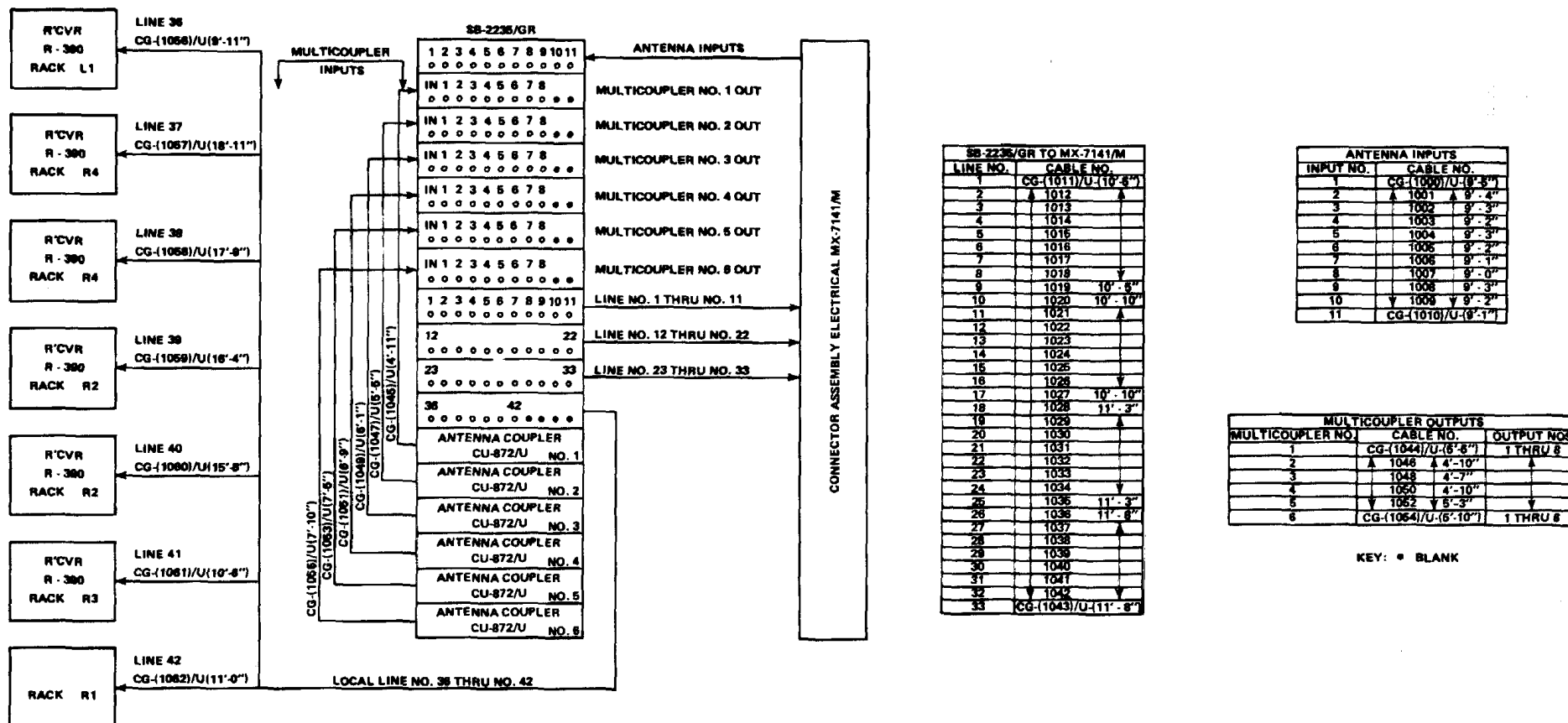


Figure 2-1. Interconnecting Cables, Central Station, AN/MSQ-71 Baseline Configuration

Section V. PRELIMINARY ADJUSTMENT OF EQUIPMENT

2-7 GENERAL. Ensure that all outstation and central station equipment is either turned off or unplugged, as appropriate. This will help isolate any problems incurred during initial startup procedures.

Section VI. INSTALLATION AND CIRCUIT LINEUP

(Not Applicable)

CHAPTER 3

OPERATING INSTRUCTIONS

Section I. CONTROLS AND INSTRUMENTS

3-1 OPERATOR/CREW CONTROLS. Tables 3-1 through 3-5 list the controls for each of the components peculiar to the Communications Central AN/MSQ-71 baseline configuration. Figures 3-1 through 3-5

correspond to tables 3-1 through 3-5. Equipment covered in other manuals is listed below.

Equipment

Radio Receiver R-390A/URR
 Antenna Coupler CU-872A/U
 Teletypewriter Set AN/TGC-14

Manuals

TM 11-5820-358-35
 NAVSHIPS 94490
 TM tl-5815-206-12

Table 3-1. Operator/Crew Controls, Telephone Set TA-676/G

Control	Description	Function
TA-676/G (STANDARD)		
Wall plug		Serves as on/off switch.
Any MON switch	Pushbutton	Serves as power indicator. Lights when pushed.
CCC switch	Alternate action pushbutton.	Push to call or to answer. Completes circuit between CCC and telephone set. Button (and CCC) light blinks when pushed to call. Button (and CCC) light is steady and telephone set microphone and receiver are connected to CCC intercom line, when pushed, to answer. Push a second time to disconnect. Both parties must push to disconnect. Button (and CCC) light blinks if only one party disconnects.
RICS switch	Alternate action pushbutton.	Push to call or to answer.
MON 1 switch	Alternate action pushbutton.	Push on. Button lights. Connects telephone set line No. 1 receptacle to system monitor line. Push off. Button light out. Disconnects telephone set line No. 1 receptacle from system monitor line.
MON 2 switch	Alternate action pushbutton.	Push on. Button lights. Connects telephone set line No. 2 receptacle to system monitor line. Push off. Button light out. Disconnects telephone set line No. 2 receptacle from system monitor line.

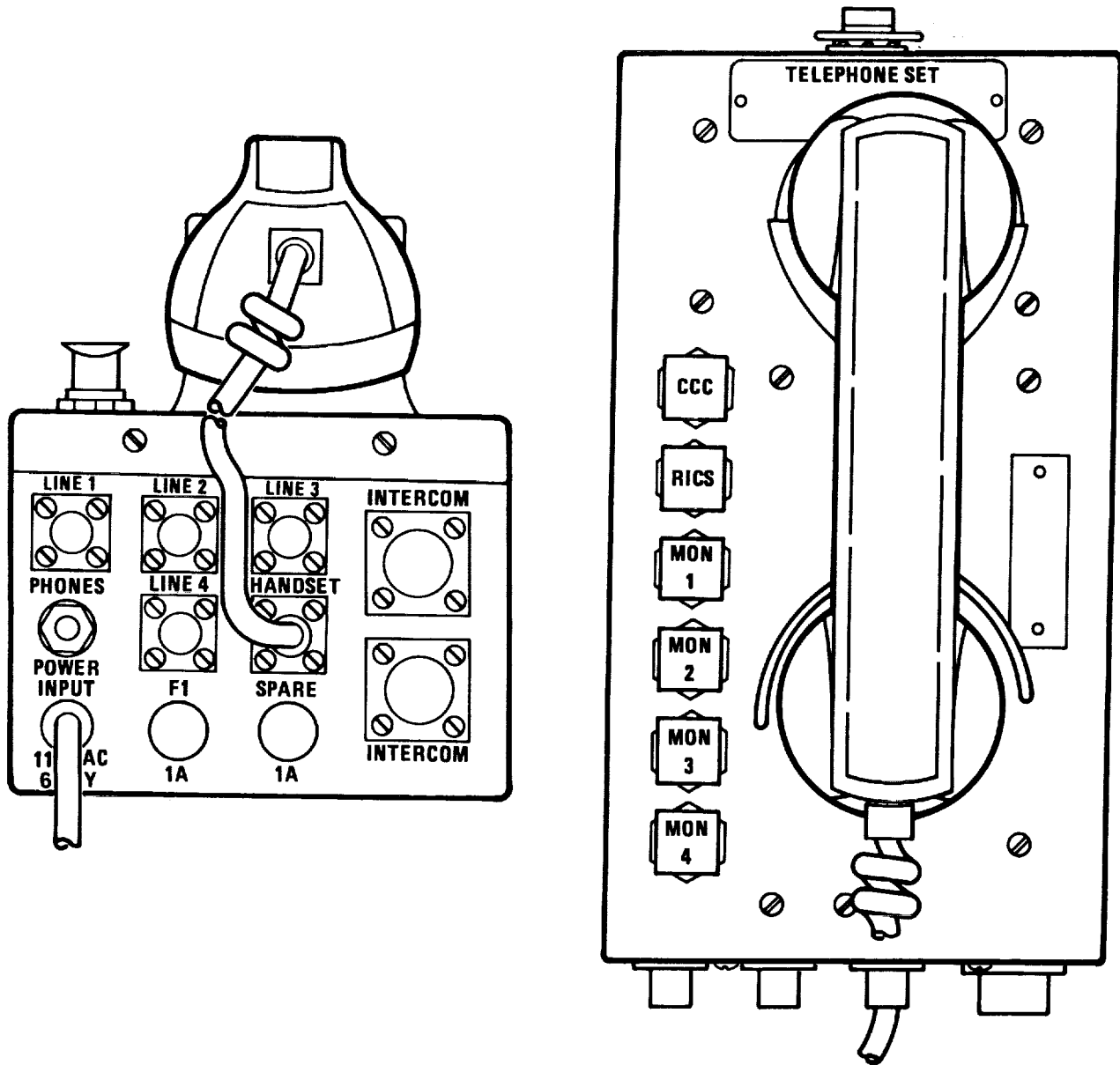


Figure 3-1. Operator/Crew Controls, Telephone Set TA-676/G

Table 3-1. Operator/Crew Controls, Telephone Set TA-676/G - Continued

Control	Description	Function
MON 3 switch	Alternate action pushbutton.	Push on. Button lights. Connects telephone set line No. 3 receptacle to system monitor line. Push off. Button light out. Disconnects telephone set line No. 3 receptacle from system monitor line.
MON 4 switch	Alternate action pushbutton.	Push on. Button lights. Connects telephone set line No. 4 receptacle to system monitor line. Push off. Button light out. Disconnects telephone set line No. 4 receptacle from system monitor line.
PHONES jack		Allows use of headset to monitor line 1, 2, 3, or 4 when connected.
CCC switch	TA-676/G (SPECIAL) Replaced with a cap.	Not used.
All other controls		Same as TA-676/G (STANDARD).
PHONES jack	TA-676/G (SUPERVISOR)	Allows use of headset to monitor line 1, 2, 3, or 4 when connected.
MON 1, MON 2, MON 3, and MON 4 switches		Same as TA-676/G (STANDARD).
All other controls		Controlled by the RICS operator.

Table 3-2. Operator/Crew Controls, Communications Control Console (CCC) OA-7735/G

Control	Description	Function
Wall plug		Serves as on/off switch.
MON/OFF switch	Momentary pushbutton.	Serves as power indicator. Lights when pushed.
INTERCOM	Eighteen alternate action pushbutton switches.	Push to call or answer. Each switch connects the CCC with an outstation Monitor Control Panel SB-2600/G or a central station Telephone Set TA-676/G, as appropriate. Button light blinks when pushed to call.

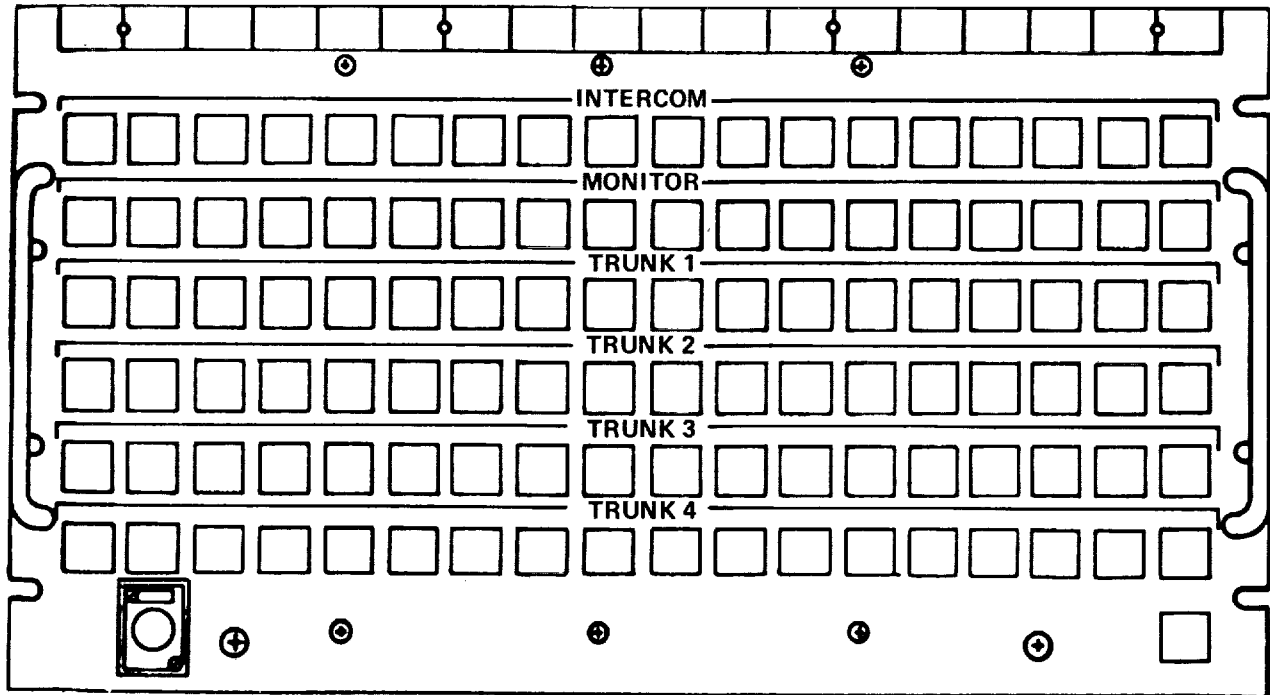


Figure 3-2. Operator/Crew Controls, Communications Control Console (CCC) OA-7735/G

Table 3-2. Operator/Crew Controls, Communications Control Console (CCC) OA-7735/G - Continued

Control	Description	Function
MONITOR	Eighteen alternate action pushbutton switches.	<p>Push on. Connects monitor earpiece of the CCC headset to the monitor line of the outstation on the channel contacted.</p> <p>Push off. Disconnects monitor earpiece from the monitor line.</p> <p>Operating a monitor button for another channel or operating the MON/OFF button will also disconnect the RICS operator from the monitor line.</p>
TRUNK 1, 2, 3, or 4	Eighteen alternate action pushbutton switches for each trunk.	<p>Push on. Allows CCC operator to place intercom stations in two-station conference group.</p> <p>Push off. Disconnects circuit.</p>
PHONES jack		Allows a headset and microphone to establish two-way intercommunication between station calls.

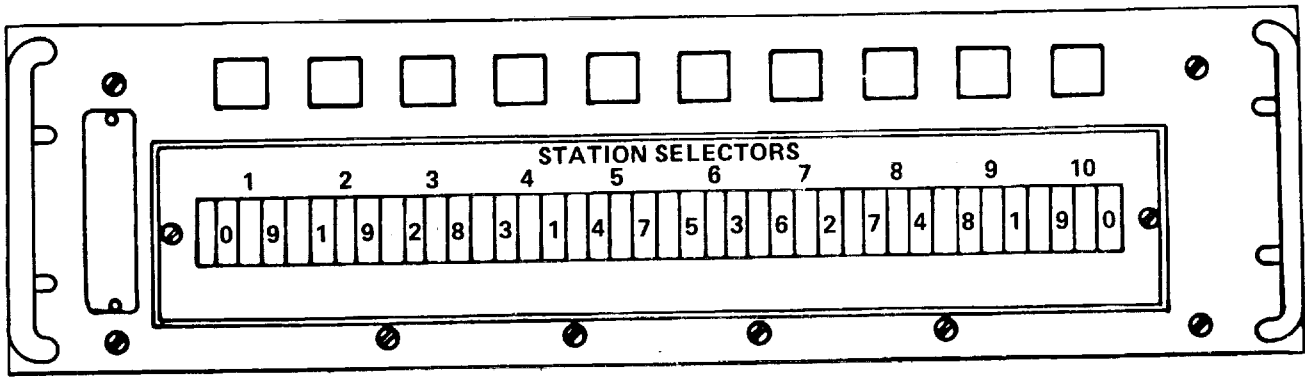


Figure 3-3. Operator/Crew Controls, Intercommunication Switchboard SB-2601/G

Table 3-3. Operator/Crew Controls, Intercommunication Switchboard SB-2601/G

Control	Description	Function
Wall plug		Serves as on/off switch.
Any station position switch		Serves as power indicator. Lights when pushed.
STATION SELECTORS	Ten sets of thumb-wheel switches. One "tens" switch and one "units" switch per set. Each switch has a 0-9 setting.	Connects CCC to selected outstation. A switch set is positioned at 01 to 18 to select the appropriate outstation on CCC panel No. 1. A switch set is positioned at 19 to 35 to select the appropriate outstation on CCC panel No. 2.

Table 3-4. Operator/Crew Controls, Radio Intercept Control Switchboard (RICS) SB-2602/G

Control	Description	Function
Wall plug		Serves as on/off switch.
MON/OFF switch	Momentary pushbutton.	Serves as power indicator. Lights when pushed.
STATION TRANSFER	Ten red indicator lamps.	Each lamp lights when the corresponding outstation channel is activated.

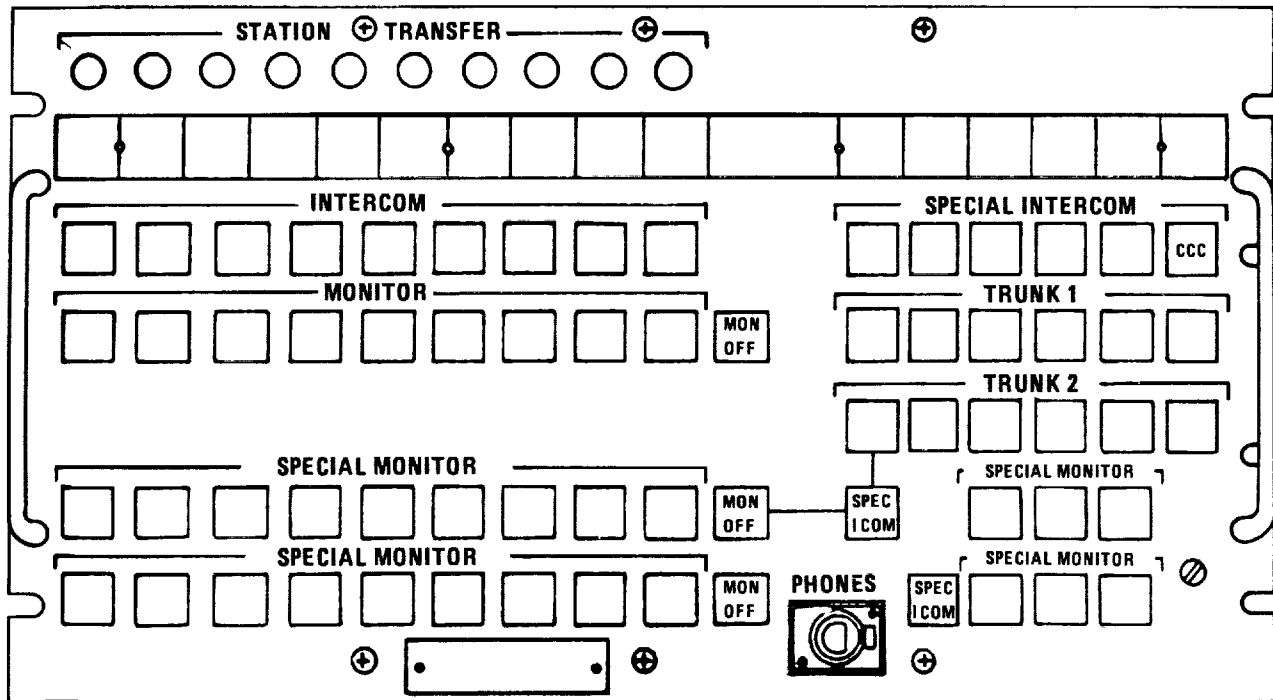


Figure 3-4. Operator/Crew Controls, Radio Intercept Control Switchboard (RICS) SB-2602/G

Table 3-4. Operator/Crew Controls, Radio Intercept Control Switchboard (RICS) SB-2602/G - Continued

Control	Description	Function
INTERCOM	Ten alternate action pushbutton switches.	<p>Push on to call or answer selected outstation. Connects earpiece and microphone to intercom line.</p> <p>When calling, selected button (and RICS button at outstation called) blinks until call is answered. Lights become steady when outstation answers by pressing RICS button.</p> <p>Push second time for off. Button pushed (and outstation RICS button) blinks until outstation RICS button is also pushed for off.</p>
MONITOR	Ten alternate action solenoid-held pushbutton switches.	<p>Push on to monitor any one of 10 channels in which the selected outstations have been placed. Connects the monitor earpiece of the RICS headset to the monitor line of the outstation on the channel contacted.</p> <p>Push second time for off, or select another channel, or push the momentary MON/OFF button to disconnect the RICS operator from the monitor line.</p>

Table 3-4. Operator/Crew Controls, Radio Intercept Control Switchboard (RICS) SB-2602/G - Continued

Control	Description	Function
SPECIAL MONITOR - top row	Ten alternate action solenoid-held push-button switches.	<p>Push on for Direction Finder Report (DFR) operator to monitor one of 10 specially selected outstations placed in channels 1-10, using Telephone Set TA-676/G (SPECIAL).</p> <p>Push second time for off, or push any other SPECIAL MONITOR button, or the MON/OFF button in the same row to disconnect the DFR operator from the monitored station.</p>
SPECIAL MONITOR - bottom row	Ten alternate action solenoid-held push-button switches.	<p>Push on for Direction Finder Flash (DFF) operator to monitor one of 10 specially selected outstations placed in channels 1-10, using Telephone Set TA-676/G (SPECIAL).</p> <p>Push second time for off, or push any other SPECIAL MONITOR button, or the MON/OFF button in the same row to disconnect the DFF operator from the monitored station.</p>
SPECIAL INTERCOM	Six alternate action pushbutton switches.	<p>Push on. Push again for off.</p> <p>The first two buttons are for call and answer intercom functions of two Telephone Sets TA-676/G (SPECIAL), DFR and DFF, respectively.</p> <p>The next three buttons are for call and answer intercom functions of two Telephone Sets TA-676/G (SPECIAL), Radio Finger Pointer (RFP) and Direction Finder Plotter (DFP), respectively, and a special outstation connected to I/M-12 on Connector Assembly MX 7141/M.</p> <p>The sixth button, CCC, is a direct intercom line to the CCC panel operator.</p>
TRUNK 1	Six alternate action solenoid-held push-button switches.	Push on for RICS panel operator to place special intercom in two-station or all stations conference calls. Push again for off.
TRUNK 2	Six alternate action solenoid-held push-button switches.	Separate circuit. Same as TRUNK 1.
SPEC ICOM - top	One alternate action solenoid-held push-	Push on for MULTIPLE INTERCOMMUNICATION of DFR position No. 1 using Telephone Set TA-676/G (SPECIAL) with INTERCOM, SPECIAL button switch. OUTSTATION selected. Push again for off.

Table 3-4. Operator/Crew Controls, Radio Intercept Control Switchboard (RICS) SB-2602/G - Continued

Control	Description	Function
SPEC ICOM - bottom	One alternate action solenoid-held push-button switch.	Push on for MULTIPLE INTERCOMMUNICATION of DFF position No. 2 using Telephone Set TA-676/G (SPECIAL) with INTERCOM, SPECIAL OUTSTATION selected. Push again for off.
SPECIAL MONITOR - top row	Three alternate action solenoid-held push-button switches.	Push on for DFR position No. 1 to monitor special outstations using Telephone Set TA-676/G (SPECIAL). Push again for off.
SPECIAL MONITOR - bottom row	Three alternate action solenoid-held push-button switches.	Push on for DFF position No. 2 to monitor special outstations using Telephone Set TA-676/G (SPECIAL). Push again for off.
PHONES jack	Jack	Allows use of a headset and microphone for two-way intercommunication with Intercom, Special Intercom, and CCC position.

Table 3-5. Operator/Crew Controls, Monitor Control Panel SB-2600/G

Control	Description	Function
POWER ON	Two-position toggle switch.	Power on/off switch. Up for on; down for off.
RECORDER 1 and RECORDER 2 indicator lamps		Serves as power indicator. One or both ON red lockout indicator lamps will light when the recorders are in use and under control of another outstation.
RCVR MONITOR - ON	Two-position toggle switch.	Up for on. Connects J6 receiver No. 1 and J7 receiver No. 2 to monitor line.
RCVR MONITOR - PRTY 2 - PRTY 1	Two-position toggle switch.	Up for PRTY 2; down for PRTY 1. Selects J7 receiver No. 2 or J6 receiver No. 1 for monitoring when RCVR MONITOR - ON switch is on (up).
RECORDER IN - RCVR 1	Two-position toggle switch.	Up for on. Connects J6 receiver No. 1 signal to recorder input circuit. Down for off.
RECORDER IN - RCVR 2	Two-position toggle switch.	Up for on. Connects J7 receiver No. 2 signal to recorder input circuit. Down for off.
RECORDER 1 - ON and RECORDER 11 - OFF	Two single-action pushbutton switches.	When ON, button is pushed, ON button indicator lamp lights, and Recorder No. 1 starts. When OFF, button is pushed, OFF button indicator lamp lights, and Recorder No. 1 stops.

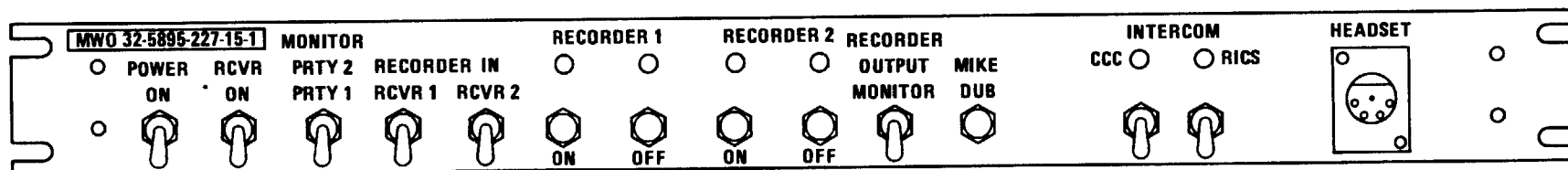


Figure 3-5. Operator/Crew Controls, Monitor control Panel SB-2600/G

Table 3-5. Operator/Crew Controls, Monitor Control Panel SB-2600/G - Continued

Control	Description	Function
RECORDER 2 - ON and RECORDER 2 - OFF	Two single-action pushbutton switches.	When ON button is pushed, ON button indicator lamp lights and Recorder No. 2 starts. When OFF button is pushed, OFF button indicator lamp lights and Recorder No. 2 stops.
RECORDER OUTPUT MONITOR	Two-position toggle switch.	Up for on. Connects recorder output to monitor circuit. Down for off.
MIKE DUB	Momentary on switch.	Push and hold for on. Connects microphone to recorder input circuit. Release for off.
INTERCOM - CCC	Two-position toggle switch and indicator lamp.	Up to call or answer. Connects monitor control panel (microphone with the intercom earpiece of the headset - microphone side of headset) to CCC panel (intercom earpiece and microphone). Indicator light is steady when both parties are on line. Indicator light blinks when one party is on line.
INTERCOM - RICS	Two-position toggle switch and indicator lamp.	Up to answer RICS special panel operator. Connects monitor control panel (microphone and intercom earpiece) with intercom line and monitor control panel (monitor earpiece) with RICS special panel operator monitor line. Indicator light is steady when both parties are on line. Indicator light blinks when one party is on line. To call RICS panel operator requires calling the CCC panel operator to set up the circuit with the RICS panel operator.

Section II. OPERATION UNDER USUAL CONDITIONS

3-2 TYPES OF OPERATION.

a. *Independent Operations Group.* When the equipment is used as an independent operations group, the following types of operation can be performed:

- (1) Aural radio receiver monitoring.
- (2) Radio teletypewriter monitoring.

This assumes that equipment is available to convert the mark-space tone signal or the on-off tone signal output of a radio receiver from a radio teletype transmission into a form suitable for the teleprinter.

(3) Setting up conference-type calls between selected stations in the group (up to any 10 stations in the group) without interfering with routine operation.

(4) Monitoring any connected station in the system.

b. *Independent Control Group.* When the equipment is used as an independent control group, the following types of operation can be performed:

- (1) Intercommunication between control group positions.
- (2) Aural radio receiver monitoring.
- (3) Radio teletypewriter monitoring,

c. *Combined System Operation.*

(1) When the system is used for combined system operation, the following types of operation can be performed at the central station.

(a) All independent group operations in paragraph 3-2a.

(b) Operation of intercommunication and monitoring facilities at the central station in paragraph 3-2b.

(2) When the equipment is used for combined system operation, the following types of operation can be performed at the central station:

(a) All independent control group operations in paragraph 3-2b.

(b) Monitoring any line circuit in the system.

(c) Remote line recording.

(d) Radio and land-line teletypewriter operation.

3-3. INITIAL ADJUSTMENTS. Perform the procedures below to prepare for operational use.

a. *Power.* If the AN/MSQ-71 has just been set up, or if it has been out of service for over a month, ensure that the main power is off, that all equipment power switches are off, and that equipment is unplugged, as appropriate. This will help isolate any defective equipment and prevent further damage.

b. *Main Power.* Turn main power on.

c. *Radio Receiver R-390A/URR.* See TM 11-5820. 358-35.

d. *Antenna Coupler CU-872A/U.* See NAVSHIPS 94490.

e. *Teletypewriter Set AN/TGC-14.* See TM 11-5815206-12.

f. *Telephone Set TA-676/G.*

(1) Plug power cord in.

(2) Push any one of MONITOR buttons.

Button should light. This checks out operation of relay power supply PS2. Push button again to turn it off.

(3) With handset connected (handset receptacle on bottom side of case), and while holding receiver end to ear, tap microphone. Sound response from receiver to tapping checks out operation of intercom power supply PS1 and amplifiers AMP 3 and AMP 4.

g. *Communications Control Console (CCC) OA-7735/G.*

(1) Plug power cord in.

(2) Plug microphone headset assembly into HEADSET receptacle on panel.

(3) Tap microphone and listen for sound in left earpiece of headset. This checks out operation of intercom power supply PS 1 and also amplifiers AMP 1 and AMP 2.

(4) Push any one of the 18 INTERCOM buttons that has an outstation connected to it. Button pushed should blink. This checks out relay power supply PS2. Push button again to turn it off.

h. *Intercommunication Switchboard SG-2601/G.*

NOTE

This unit gets its power to operate the transfer button lights and the selector relays from the Radio Intercept Control Switchboard (RICS) SB-2602/G. Therefore, check out the RICS first. See paragraph 3-3i.

Push any one of the TRANSFER buttons. Button pushed (and corresponding channel signal light on RICS panel) should light. Push button again to turn it off.

i. *Radio Intercept Control Switchboard (RICS) SB2602/G.*

(1) Plug power cord in.

(2) Plug microphone headset assembly into HEADSET receptacle on panel.

(3) Tap microphone and listen for a sound in left earpiece. This checks out operation of intercom power supply PS 1.

(4) Push MON OFF button. Button should light. This checks out relay power supply PS2. Push button again to turn it off.

(5) Push first SPECIAL INTERCOM button. This will apply blinker signal to Direction Finder Report (DFR) Telephone Set TA-676/G (SPECIAL) to check operation of blinker power supply PS3. Push button again to turn it off.

j. *Monitor Control Panel SB-2600/G.*

(1) Plug power cord in.

(2) Turn POWER ON switch on (up). RECORDER 1 OFF and RECORDER 2 OFF indicator lamps should light. Recorders are also remotely controlled, so one or both of the ON indicator lamps may light instead. Either situation indicates that relays and indicator lamps have power.

- (3) Plug headset into HEADSET receptacle.
- (4) Connect radio receivers to LINE 1 and LINE 2 receptacles, respectively, on rear panel of SB-2600/G.
- (5) Connect radio receivers to power source.
- (6) Turn receivers on.

NOTE

Tests (7) through (12) check operation of the intercom power supply, both headset ear pieces, and all amplifiers except AMP 3.

- (7) Turn RCVR MONITOR ON switch on (up).
- (8) Flip RCVR MONITOR PRTY 2 PRTY 1 switch down. Obtain a radio signal or noise in left earpiece of headset. Vary LINE 1 radio receiver gain control and tuning, as necessary.
- (9) Flip RCVR MONITOR PRTY 2 PRTY 1 switch up. Obtain a radio signal or noise in left earpiece of headset. Vary LINE 2 radio receiver gain control and tuning, as necessary.
- (10) Turn RCVR MONITOR ON switch off (down).
- (11) Plug microphone into MIKE DUB receptacle on panel.
- (12) Tap microphone and listen for a sound in left earpiece.

k. Aural Radio Receiver Monitoring.

- (1) To monitor a signal with Radio Receiver R-390A/URR, refer to TM 11-5820-358-35.
- (2) Receiver output is made available at a monitor button on Telephone Set TA-676/G or on Monitor Control Panel SB-2600/G, whichever is applicable, by connecting receiver output cable to a line receptacle on bottom side of TA676/G case or to J6 or J7 receptacle on rear cover of SB-2600/G. For input to receiver, proceed as follows:

- (a) Patch antenna output receptacle of desired antenna to input of desired Antenna Coupler CU-872A/U.
- (b) Patch CU-872A/U output to input of desired receiver.

l. Radio Teletypewriter Monitoring.

- (1) Connect Radio Receiver R-390A/URR as outlined in paragraphs 3-3m(2)(a) and (b).
- (2) See TM 11-5820-358-35 to set up receiver for teletypewriter reception.
- (3) See TM 11-5815-206-12 for terminal equipment required between receiver and teletypewriter to convert receiver output into dc pulses for teleprinter.

m. Recording and Recorder Monitoring. Input to a Monitor Control Panel SB-2600/G may come from either of two Radio Receivers R-390A/URR. Output from an SB-2600/G may go to either of two recorders. Only one recorder at a time may be controlled by an SB-2600/G. By using parallel connecting cables to a second SB-2600/G, two recorders may be controlled at the same time and either R-390A/URR may be selected for either recorder. The operator can also provide input to a recorder using the MIKE DUB on the respective SB-2600/G. The operator can monitor input to each recorder at the left earpiece of the respective SB-2600/G headset. Recorder input is also available on the central station monitor line. See figure 3-6 for a typical hookup. An example follows:

EXAMPLE: Using either of two SB-2600/G panels with the parallel hookup, use recorder No. 2 to record signals from receiver No. 1.

- (1) Adjust receiver for satisfactory output level. See TM 11-5820-358-35.
- (2) Turn RECORDER IN RCVR 1 switch on (up). The receiver is selected.
- (3) Push RECORDER 2 ON button. Recorder is selected, connected to receiver, and recorder is started.
- (4) Turn RECORDER OUTPUT MONITOR switch on (up). The left earpiece of the SB-2600/G headset and central station monitor line is connected to recorder. Recorder No. 1 is locked out of circuit, but can be used with other SB-2600/G.
- (5) Push and hold MIKE DUB button. Receiver is disconnected from recorder and microphone is connected. Operator comments can now be recorded. When button is released, microphone is disconnected and receiver is reconnected.
- (6) If monitor signal in left earpiece of SB2600/G headset suddenly stops, the problem probably is:
 - (a) Receiver signal has been lost.
 - (b) Recorder tape is near end of reel.
 - (c) Recorder tape is broken.
- (7) To find and correct any one of the above problems, proceed as follows:
 - (a) Flip RCVR MONITOR PRTY 2 PRTY 1 switch down.
 - (b) Turn RCVR MONITOR ON switch on (up) long enough to determine if signal has been lost.
 - (c) If signal has not been lost, push RECORDER 2 OFF button and then, if recorder No. 1 is not in use with other SB-2600/G, push RECORDER 1 ON button.

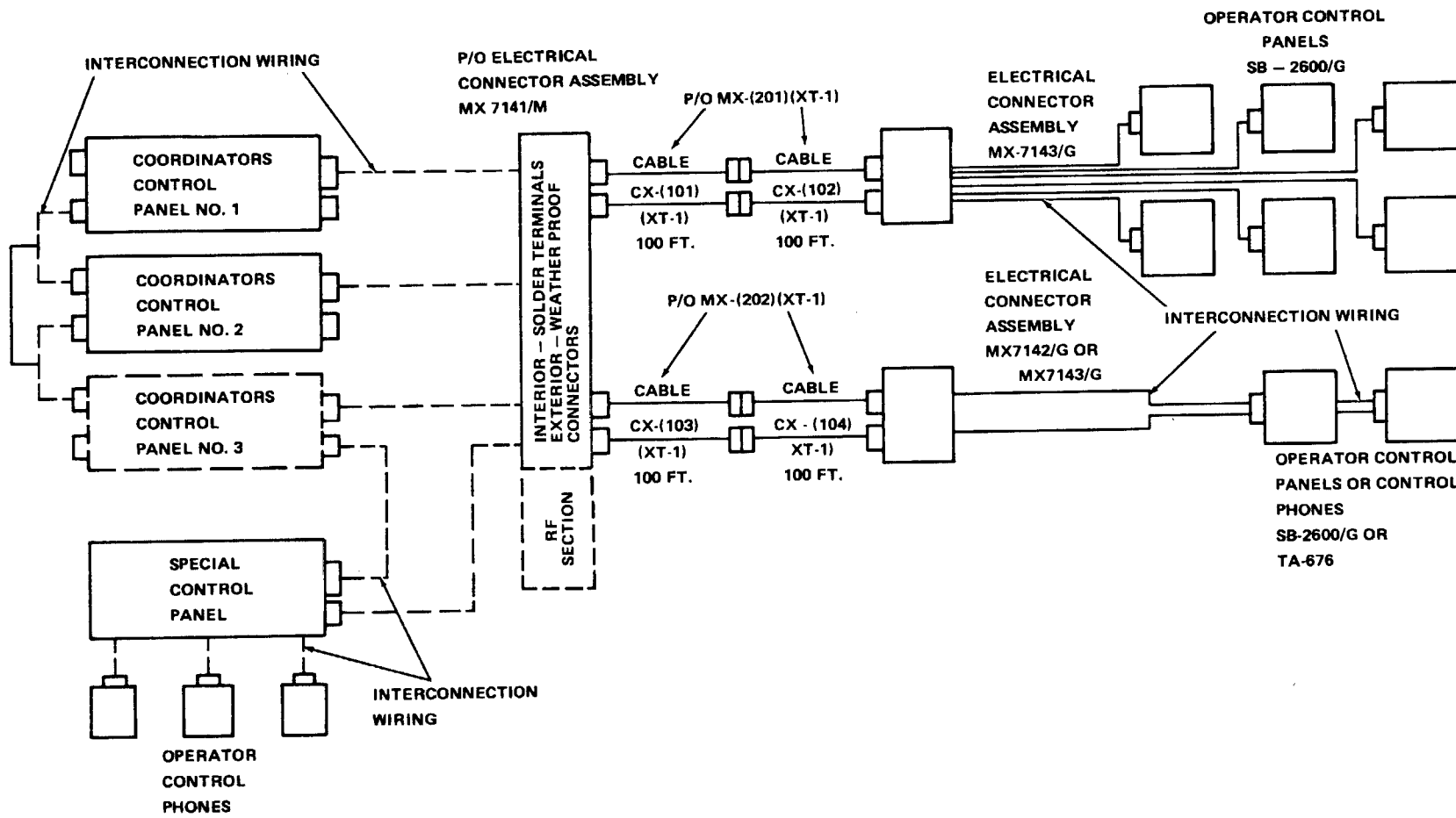


Figure 3-6. Cable and Block Diagram, System Intercom Operation, Typical

3-4 OPERATING PROCEDURES. The using unit will operate the AN/MSQ-71 in accordance with local unit directives. Typical operations are presented below.

a. Operations Group, Systems Operation. During systems operation, operators at operations group positions may perform all independent operations. The operators may also use their intercom facilities with respect to Telephone Set TA-676/G and Monitor Control Panel SB-2600/G.

b. Control Group, Systems Operation. During systems operation, all independent group operations can be performed. There are 35 independent outstation intercommunication channels in the AN/MSQ-71. The basic configuration provides 11 antenna input positions to central station which may be distributed to 33 outstation receiver positions using Antenna Couplers

CU-872A/U. Radio teletypewriter system reception is performed using Teletypewriter Set AN/TGC-14 and Radio Receiver R-390A/ URR.

c. System Intercom Operation. A typical system (figure 36) has single or multiple outstations. A single outstation, such as a MHBV-4 Radio Printer Control, has one Telephone Set TA-676/G wired directly to a Connector Assembly MX-7142/G. A multiple outstation, such as a MMBV-2 Van, has six Monitor Control Panels SB-2600/G wired directly to a Connector Assembly MX-7143/G. The AN/MSQ-71 system can accommodate four single and five multiple outstations.

Section III. OPERATION UNDER UNUSUAL CONDITIONS

3-5 GENERAL. It may be necessary to operate the AN/ MSQ-71 under abnormal conditions, such as extreme cold, heat, humidity, moisture, or sand. A van housing, when used, will protect personnel and equipment in temperatures ranging from -60° to +160°F.

a. Operation in Arctic Climates. Subzero temperatures and climatic conditions associated with subzero weather affect the efficient operation of the equipment. Instructions and precautions for operation under these conditions follow.

(1) Handle equipment carefully. Subzero temperatures cause equipment parts to become brittle, especially plastics and wire insulation.

(2) Keep equipment as warm and dry as possible. Maintain heat in the van housing. Keep equipment on for warmth, except when this overtaxes the power source.

(3) Keep a blackout curtain, a blanket, or other similar heat barriers between the equipment and the entrance door. This reduces heat loss and the danger of a cold draft striking heated equipment and components.

(4) When cold equipment is exposed to warm air, moisture will condense on the equipment. Dry the equipment thoroughly if and when this occurs. Excessive moisture can cause operational failures.

b. Operation in Tropical Climates. When the equipment is operated in tropical climates, moisture is the problem again, especially when the equipment is installed in underground dugouts or in swampy areas. Ventilation is often very poor. This, combined with high

relative humidity, increases condensation. Dry equipment thoroughly at the first signs of moisture.

c. Operation in Desert Climates. When equipment is operated in desert climates, the main problem is sand, dust, and dirt. Accumulations of these particles on or in the equipment can damage parts or reduce efficiency. Take the following precautions:

(1) Hang wet sacks or other dust proof material over doors and windows.

(2) If available, a tent may be set up over the entire housing. Ensure that all tent walls are secure to prevent flapping in the wind. Never tie power cords, interconnecting cables, or other wiring connections to any part of the tent. Desert areas are subject to sudden wind squalls which can jerk the connections loose or break the lines.

(3) Do not remove panels, chassis assemblies, or plug-in components unless absolutely necessary. Clean all parts thoroughly before reinstalling them.

(4) Keep the equipment as free from dust, sand, and dirt as possible. Particles mixed with oil or grease become grit, which can damage switches and other moving parts. Make frequent preventive maintenance checks.

(5) A sudden fall in temperature at night often results in condensation on the equipment. Cover the equipment with a tarpaulin or other similar material to keep the condensation off of the equipment.

Section IV. PREPARATION FOR MOVEMENT

3-6 DISMANTLING FOR MOVEMENT . The following procedures are a guide for preparing the AN/MSQ-71 for transportation. Refer to particular station specifications for overall requirements.

a. inspection. Visually check to see that all equipment is mounted or tied down securely.

b. Disassembly. Disconnect all cables external to the central station and outstation housings. Store them in the housings.

c. Repacking. If repacking of removable items is required, refer to paragraph 2-3.

3-15/(3-16 blank)

CHAPTER 4

OPERATOR/CREW MAINTENANCE INSTRUCTIONS

4-1 GENERAL. Operator/crew maintenance is limited to initial inventory and to visual inspection during operation. Report all equipment problems to organizational maintenance personnel.

4-1/(4-2 blank)

CHAPTER 5

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. TOOLS AND EQUIPMENT

5-1 TOOLS AND TEST EQUIPMENT. Tools and test equipment required are listed in Appendix D of this manual. There are no special tools or test equipment required.

5-3 MATERIALS. Materials required are listed in Appendix F of this manual. There are no special materials required.

5-2 REPAIR PARTS. Repair parts required are listed and illustrated in Appendix E of this manual.

Section II. REPAINTING AND REFINISHING INSTRUCTIONS

CAUTION

Do not paint nameplates, panel nomenclature, plastic surfaces, or electrical switches and contacts.

Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electrical Equipment Shelters. Paints and finishes will be in accordance with SB 11-573, Painting and Preservation Supplies Available for Field Use for Electronics Command Equipment, and in accordance with AR 746-1, Packaging of Army Materiel for Shipment and Storage.

5-4 REPAINTING, REFINISHING, AND RETOUCHING. Repainting, refinishing, and retouching of the AN/MSQ-71 will be accomplished in accordance with TB 43-0118, Field Instructions for Painting and

Section III. LUBRICATION INSTRUCTIONS

5-5 GENERAL. There is no lubrication order for the

AN/MSQ-71. Refer to TM 11-5815-206-12 for lubrication of Teletypewriter Set AN/TGC-14.

Section IV. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

5-6 SCOPE. Organizational preventive maintenance checks and services (PMCS) are performed weekly, monthly, and quarterly as authorized by the Maintenance Allocation Chart (MAC). These periodic checks and services help maintain the AN/MSQ-71 in operating condition. Defects that cannot be corrected will be reported to direct support maintenance.

71 not ready (Red) for its primary mission in column five. Footnotes are added to indicate special requirements when unusual conditions exist.

b. Records and reports will be in accordance with TM 38-750.

c. All organizational PMCS will be performed at initial installation and when the equipment is reinstalled after removal.

a. Table 5-1 lists the inspection sequence in column one, the inspection interval in column two, the item to be inspected in column three, the procedure in column four, and the reasons for reporting the AN/MSQ-

Table 5-1. Organizational Preventive Maintenance Checks and Services

NOTE

If the equipment must be kept in continuous operation, check and service only those items that are the responsibility of organizational maintenance which can be checked and serviced without disturbing operation. Make the complete checks and services when the equipment can be shut down.

The item number column will be used as a source of item numbers for the "TM-Number" column on DA Form 2404, Equipment Inspection and Maintenance Worksheet.

Legend

W-Weekly
M-Monthly

Q-Quarterly
S-Semiannually

A-Annually
B-Biennially

H-Hours
MI-Miles

Item NO.	Interval									Item to be inspected	Procedures	Equipment will be reported Not Ready (Red) If::
	W	M	Q	S	A	B	H	MI				
1	•									LIGHT BULBS	Check equipment lights for defective bulbs. Replace defective bulbs.	Lighting is insufficient.
2	•									FIRE EXTINGUISHER	Inspect cylinder for mechanical damage. Replace extinguisher if cylinder is damaged. Check stamp, tag, or label for hydrostatic test within specified time limit. If not within limit, replace extinguisher.	Cylinder is damaged and replacement is not available. No hydrostatic test within specified time limit and replacement is not available.
3	•									PUBLICATIONS	Verify that all publications are present, current, complete, and serviceable. Replace or update as necessary.	
4	•									EQUIPMENT INVENTORY	Check for missing equipment and equipment subassemblies. Replace missing items.	Missing items render AN/MSQ-71 inoperative.

Table 5-1. Organizational Preventive Maintenance Checks and Services - Continued

Item NO.	Interval								Item to be inspected	Procedures	Equipment will be reported Not Ready (Red) If::
	W	M	Q	S	A	B	H	MI			
5	•								MODIFICATIONS	Verify application of all current MWO's. Apply urgent MWO's immediately. When possible, schedule normal MWO's to avoid disrupting operations.	One or more urgent MWO's not applied.
*6a	•								PRESERVATION ^a	Clean AN/MSQ-71 equipment by removing all accumulated particles, such as dust, dirt, grease, and grit. Inspect all painted surfaces for damage, such as cracked, chipped, flaked, peeled, weathered, or worn paint. Refinish as necessary. Inspect all surfaces for deterioration due to rust, corrosion, or fungus.	
7	•								POWER CABLES, RECEPTACLES, AND EARTH GROUND CONNECTIONS	Check for loose connections. Tighten as necessary. Inspect insulation, wires, and terminals for damage, such as cuts, abrasions, frays, breaks, kinks, and bends. Repair damage or replace parts as necessary.	Damage renders AN/MSQ-71 inoperative or causes safety hazard.
8		•							ELECTRICAL COMPONENTS	Check for proper operation of circuit breakers, relays, switches, lights, and plugs.	Inoperative item renders AN/MSQ-71 inoperative or causes safety hazard.

a. Preservation procedures may be required more frequently when the AN/MSQ-71 is operated under unusual conditions.

Table 5-1. Organizational Preventive Maintenance Checks and Services - Continued

Item NO.	Interval								Item to be inspected	Procedures	Equipment will be reported Not Ready (red) If::
	W	M	Q	S	A	B	H	MI			
9 *10b		•							MECHANICAL EQUIPMENT LUBRICATION ^b	Check for loose mountings on all equipment. Tighten as necessary. Refer to TM 11-5815-206-12 for lubrication of Teletypewriter Set AN/TGC-14.	

b. Lubrication may be required more frequently when the AN/MSQ-71 is operated under unusual conditions.

Section V. TROUBLESHOOTING**5-7 TROUBLESHOOTING PROCEDURE.****WARNING**

Dangerous voltage is present in the electrical circuits. Death on contact may result. Adhere to all safety precautions, and be, extremely careful when performing electrical troubleshooting and repairs.

Troubleshooting procedures at the organizational maintenance level are limited to isolating defective equipment and components as outlined in the PMCS chart, table 5-1. Problems that cannot be corrected using the PMCS procedures should be referred to direct support maintenance personnel.

Section VI. MAINTENANCE OF AN/MSQ-71

5-8 GENERAL. Maintenance procedures at the organizational maintenance level are limited to the procedures in the PMCS chart, table 5-1. All other maintenance requirements should be referred to direct support maintenance personnel.

5-9 CLEANING.**WARNING**

The fumes of trichloroethane are toxic. Provide thorough ventilation whenever used. DO NOT USE NEAR HEAT OR AN OPEN FLAME. Trichloroethane is not flammable, but exposure of the fumes to an open flame or hot metal forms highly toxic phosgene gas.

a. Remove dust and dirt from equipment with lint-free cloth or vacuum cleaner.

b. Remove dust and dirt from hard-to-reach areas with one-inch bristle brush or vacuum cleaner.

c. Remove grease or oil with trichloroethane. Wipe dry with clean, dry, lint-free cloth.

d. Remove caked dirt with a one-inch bristle brush soaked with trichloroethane. Wipe dry with clean, dry lintfree cloth.

5-5/(5-6 blank)

CHAPTER 6

FUNCTIONING OF EQUIPMENT

Section I. BLOCK DIAGRAMS

6-1 GENERAL. Intercommunication (ICOM) Direction Finder Flash (DFF), Direction Finder Report (DFR), Radio Finger Printing (RFP), and Direction Finder Plotter (DFP) are the basic groups of the AN/MSQ-71 intercommunication system. A typical system (figure 6-1) is comprised of one control interconnected with a maximum of 33 radio frequency operation group positions and a maximum of 35 ICOM group positions.

6-2 INTERCOMMUNICATION SYSTEM. This section is subdivided into a Trick Chief position and a Sit Control position.

a. Trick Chief Position. Trick Chief, which is the supervisor position, controls Communications Control Console (CCC) OA-7735/G No. 1 and CCC No. 2. This control establishes intercommunication between 18 ICOM outstation positions with CCC No. 1 and 16 ICOM outstation positions with CCC No. 2. Trick Chief responsibilities include the transfer control operation of Intercommunications Switchboard SB-2601/G with the Sit Control position (Radio Intercept Control Switchboard SB-2602/G). The supervisor monitors Radio Receiver R-390A/URR and controls the Telephone Set TA676/G.

b. Sit Control Position. Sit Control position operator responsibilities include operation of the Radio Intercept Control Switchboard (RICS) SB-26021G. This position establishes intercommunication directly with

one ICOM Outstation. The RICS ICOM position is interconnected to Telephone Sets TA-676/G, DFF, DFR, RFP, and Direction Finder Plotter (DFP).

c. Outstation Positions. All Outstation positions are interconnected to the AN/MSQ-71 central station through Connector Assembly MX-7141/M.

6-3 DFF/DFR SYSTEM.

a. DFF Position. The DFF position is comprised of Radio Receiver Sets R-390A/URR and Teletypewriter Sets AN/TGC-14C. This position provides dual diversity receiving capabilities in conjunction with teleprinting.

b. DFR Position. The DFR position is comprised of Radio Receiver Sets R-390A/URR and Teletypewriter Sets AN/TGC-14C. This position provides dual diversity receiving capabilities in conjunction with teleprinting.

6-4 RFP SYSTEM. This position is comprised of a receiver and an analyzer which are confidential. See the appropriate authority for coverage of this equipment.

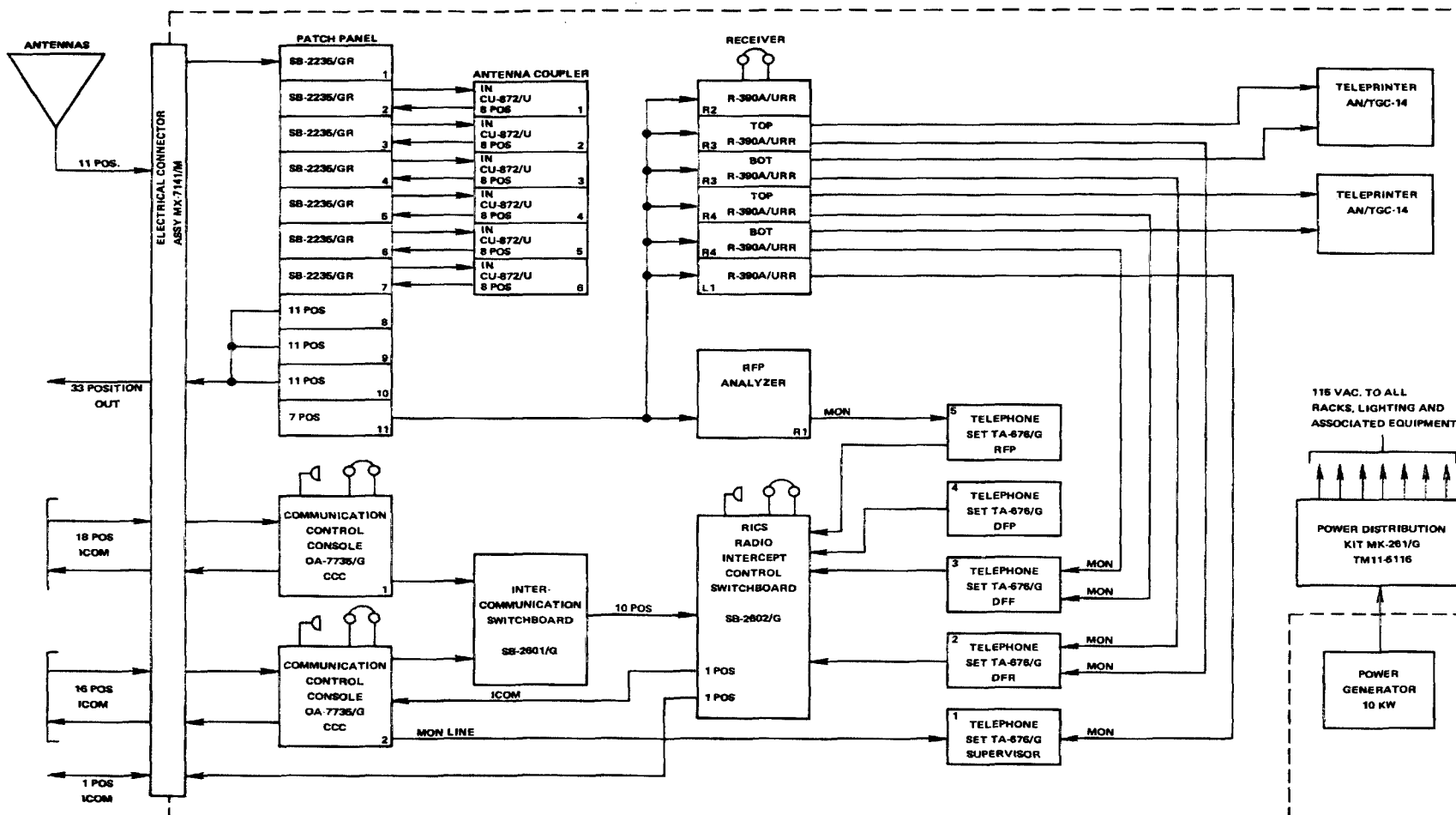


Figure 6-1. Block Diagram, AN/MSQ-71 System, Typical

Section II. INTERCOMMUNICATION CIRCUITS DETAILED THEORY

6-5 GENERAL. The basic ICOM circuits are shown in figures 6-2 through 6-9 and in FO-2 through FO-4. The visual call indicator is energized by the blinker circuit. Typical position circuits are outstation to RICS, CCC to RICS, CCC to outstation, and special intercom. The signal level of communication is controlled by an audio volume compression circuit.

6-6 BLINKER CIRCUIT. See figure 6-2. The flasher circuit with ISCR1 and ISCR2 form a basic D-C flip-flop. The lamp load at pin E of the terminal blocks is connected in the cathode leg of ISCR2 so that one side of the load may be at ground (negative) potential. Flip-flop timing is controlled by a conventional UJT oscillator arrangement Q1 (2N2646) 1RS, IC1. Diode 1CRI and resistor 1R2 give required on/off timing independence and symmetry adjustment. Resistor 1R5 determines the period adjustment for the flasher circuit. Tank circuit of 1R8, 1C3, 1C4, and 1R9 energize a maximum of 18 simultaneous flashing positions.

a. The most important feature of the injunction transistor 2N2646 is its highly stable negative resistance characteristic, which permits its application in the blinker circuit.

b. Blinker circuits are located in Communication Control Console (CCC) OA-7735/G and Radio Intercept Control Switchboard (RICS) SB-2602/G. Visual Indicator ICOM blinking signals on the Telephone Sets TA-676/G and Monitor Control Panel SB-2600/G are powered from the CCC or RICS units.

6-7 ICOM CIRCUIT OUTSTATION TO RICS. See FO-2. A call may be originated from either position, as the sample circuit in FO-2 illustrates. Intercommunication is initiated from the ICOM position of the SB-2602/G to an Outstation position TA-676/G by pushing SW1 and energizing KI. The blinker flashing circuit is energized in both positions as a call function, with green indicators visibly blinking.

a. Wiring from RICS position Channel I to communications control console (CCC) J21, is point-to-point. Relay switching at the CCC couples J18 to pin-to-pin connections at Connector Assembly MX-7141/M. External interconnecting cables complete the circuit between MX-7141/M in the AN/MSQ-71 central station and outstation position MX-7142/G or MX-7143/G. See figures 3-6, 6-3, 6-4, 6-5, and 6-6 for connector assembly wiring.

b. The circuit is completed at J2 of TA676/G outstation position. The answer function is completed at TA676/G by pushing S2 and energizing 2K1 and 2K2. The biking circuit is de-activated and a steady-state green light indication is obtained. ICOM communication

with a handset through the audio volume compression circuit AMP 2, AMP 3, AMP 4 at the telephone set is established with the RICS headset and microphone through AMP 1, AMP 2, and AMP 3.

c. Transfer operation by Trick Chief must be initiated at SB-2601/G. Station selection is accomplished with relay switching directly connected to J2 of SB-2601/G. Relays K1 through K18, which are mounted in the OA-7735/G panel control station, provide selection for interconnecting the intercommunication channel.

d. The position indicator light at J1 of the RICS is controlled by SB-2601/G.

6-8 ICOM CIRCUIT, CCC TO RICS. See FO-3.

a. A call may be originated from either position, as illustrated in the sample circuit shown in FO-3. Intercommunication is initiated from the ICOM position of OA7735/G to SB-2602/G by pushing switch SI and energizing relays that are shown. Blinker flasher circuit B1 and B2 is energized in both positions as a call function, with green indicators visibly blinking. Wiring from the CCC position to J18 is point-to-point. Relay switching at OA7735/G couples J18 through cable assembly CX-1104/U to ICOM position SB-2602/G switchboard J7. Cable Assembly CX-1104/U is pin-to-pin wiring. The circuit is completed at J7 of SB-2602/G. The answer function is completed at SB-2602/G by pushing the intercom switch. The blinking circuit is deactivated and a steady-state green light indication is obtained.

b. ICOM communication with a headset and a mike through the audio volume compression circuit AMP 1 and AMP 2 at CCC is established with the RICS headset and mike through AMP 2 and AMP 3.

6-9 ICOM CIRCUIT, CCC TO OUTSTATION. See FO-4.

a. Origination of a call can be made by either position as shown in the sample circuit in FO-4. Intercommunication is established from the ICOM position of OA-7735/G to an outstanding position SB-2600/G by pushing the ICOM switch and energizing the relays that are shown. The blinker flashing circuit is energized in both positions as a call function, with green indicators visibly flashing. Wiring from CCC position J1 to outstation position SB-2600/G J5 is point-to-point. Relay switching at OA-7735/G couples J1, pin-to-pin connections, as Connector Assembly MS 7141/M. External connecting cables complete the circuit between MX 7141 /M in the AN/MSQ-71 central station and the outstation position MX 7143/G. See figures 6-3, 6-4, 6-5, and 6-6 for connector assembly detailed wiring.

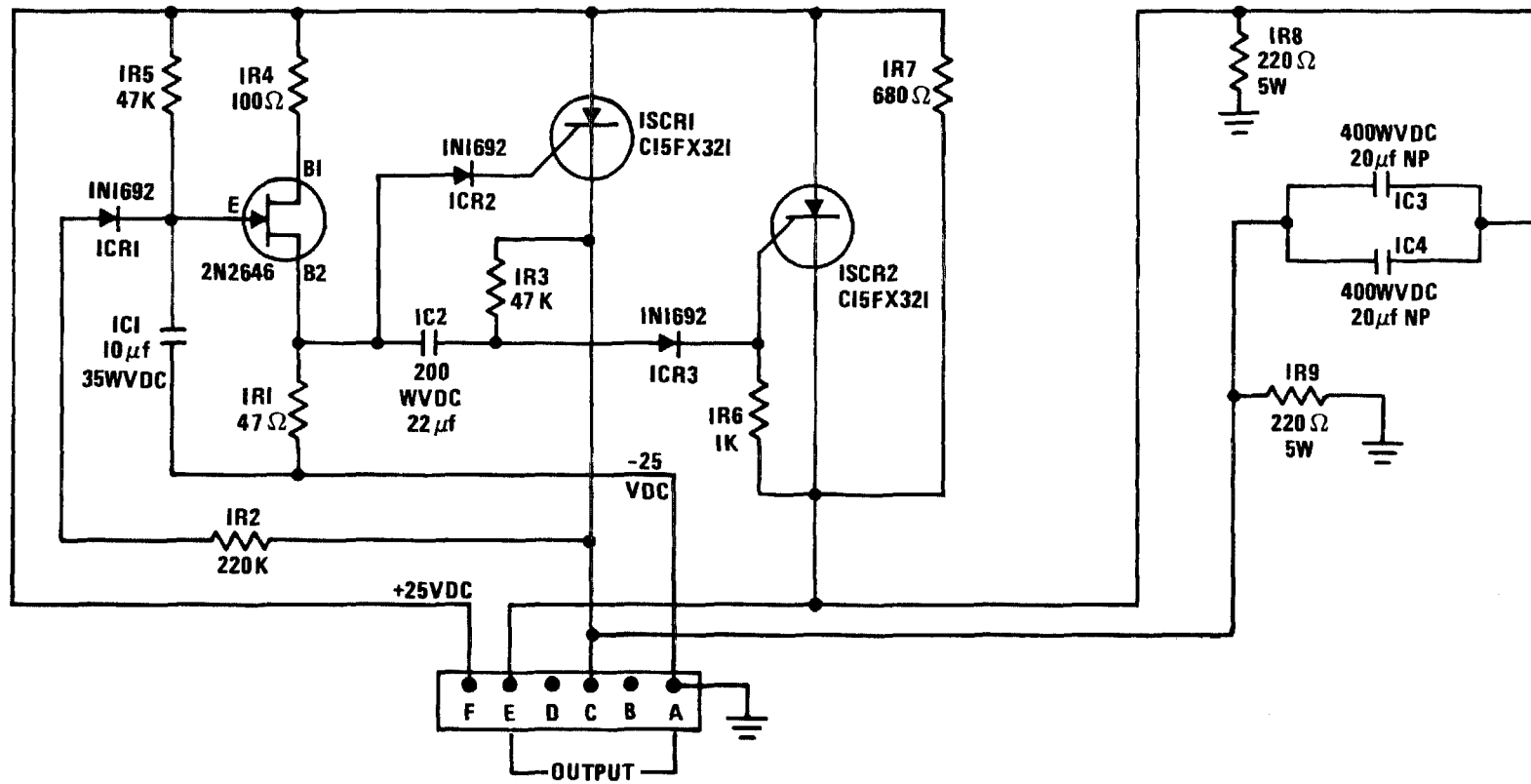


Figure 6-2. Blinker Circuit Diagram

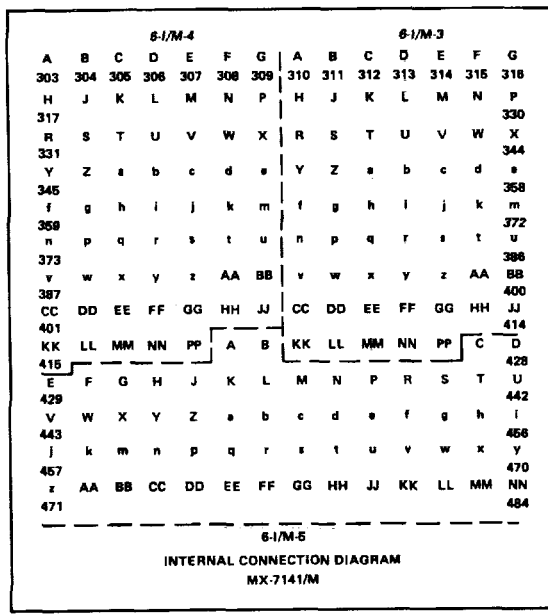
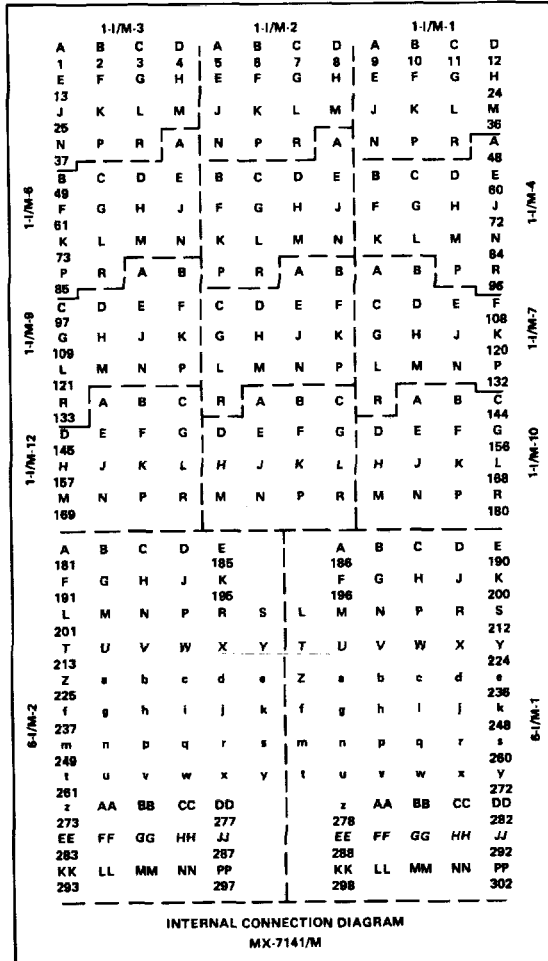
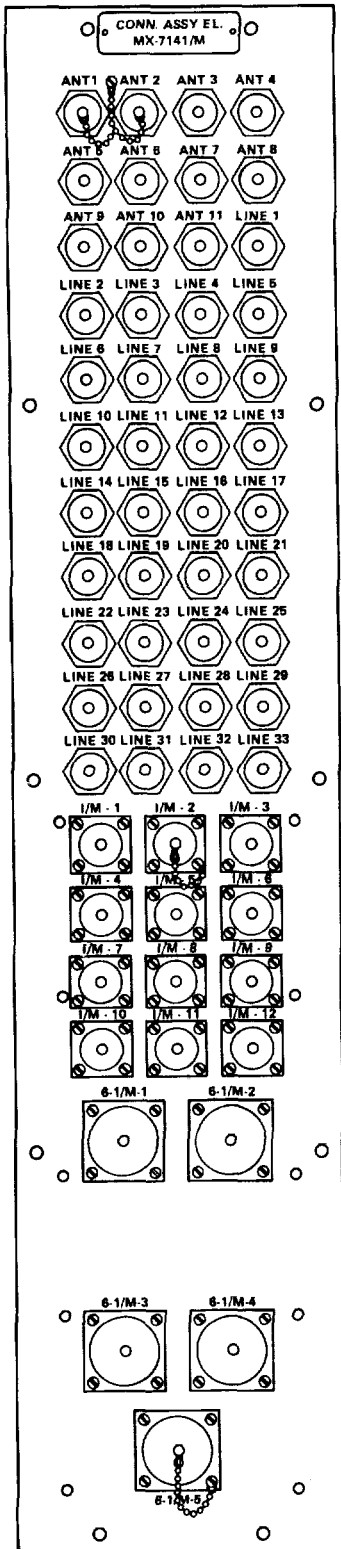


Figure 6-3. Internal Connection Diagram Connector Assembly MX 7141/M

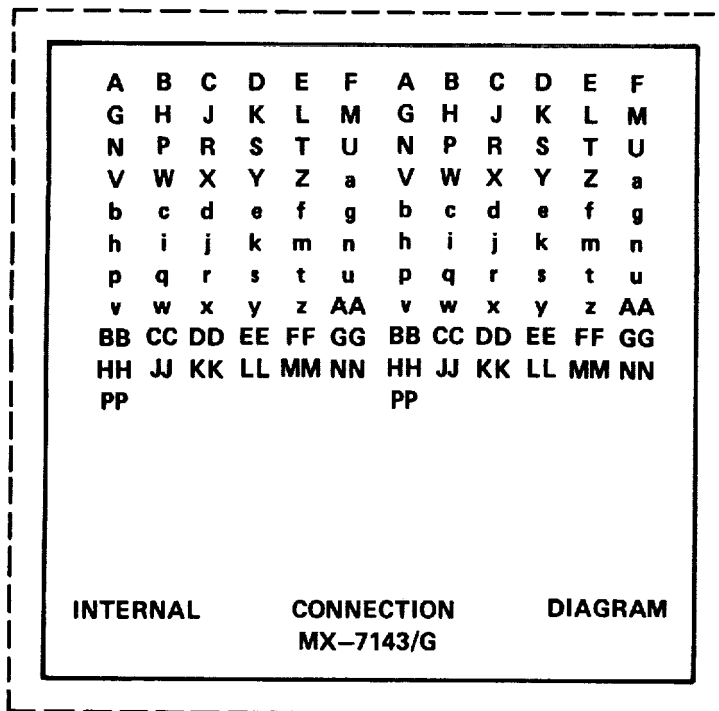
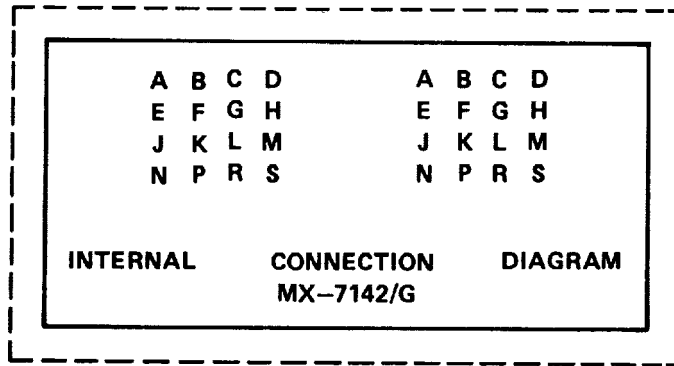


Figure 6-4. Internal Connection Diagrams, Connector Assemblies MX 7142/G and MX 7143/G

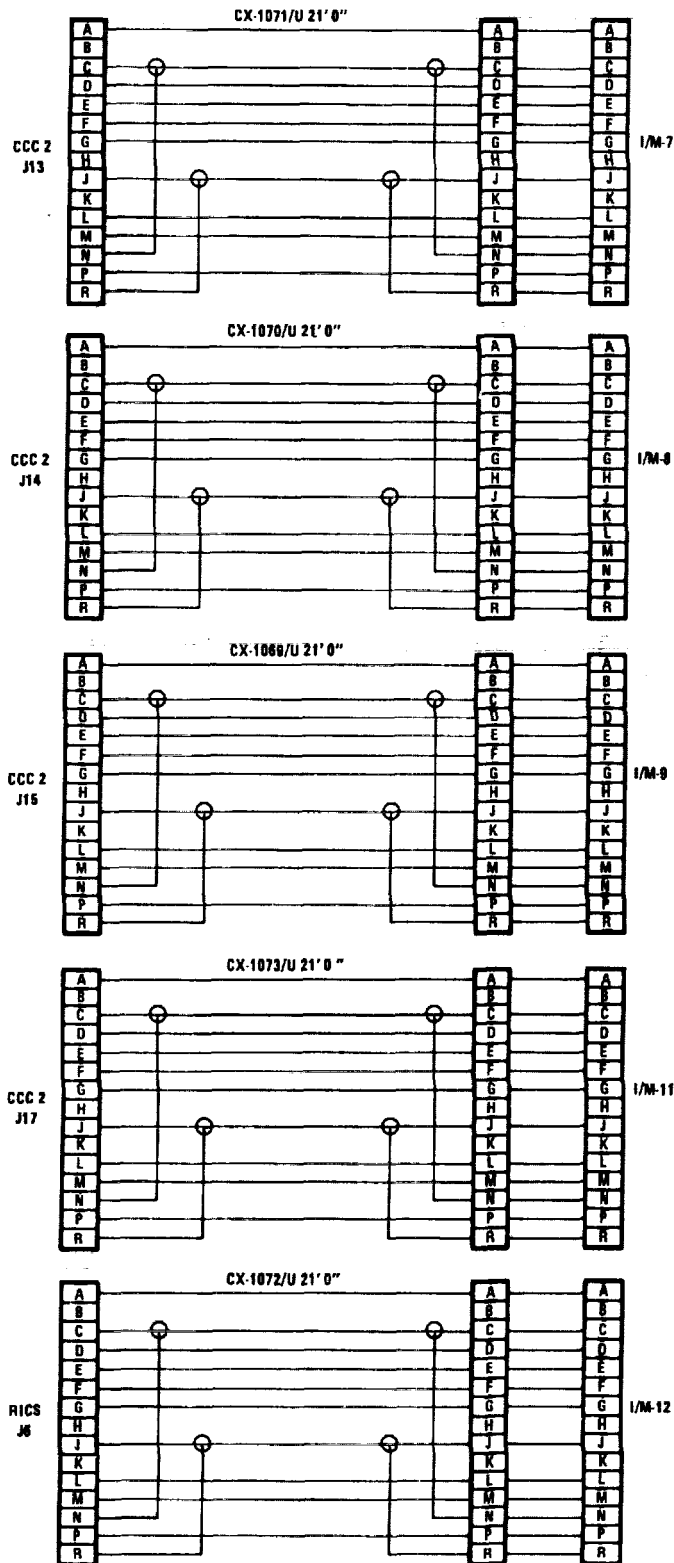


Figure 6-6. MX 7141/M Single Station Connector Wiring

b. The circuit is completed at J5 of SB-2600/G outstation position. The answer function is completed at SB2600/G by flipping INTERCOM-CCC switch up and energizing relay K8. The blinker circuit is deactivated and a steady-state green light indication is obtained. This condition indicates an active channel. ICOM communication with a headset and a mike through audio volume compression unit AMP 1 and AMP 2 at OA-7735/G is established with the SB-2600/G headset and mike through AMP 3 and AMP 4.

c. Typical installation of six circuits is found in an outstation MMBV-2A Van. Details for this installation can be identified in Installation Bulletin Number 81, MMBV2A HF Radio Receiving Central.

6-10 ICOM CIRCUIT SPECIAL INTERCOM. See figure 6-7. Multiple position ICOM communication can be established as illustrated in figure 6-7. Outstation communication is identical to the detailed explanation in paragraph 6-7. A special telephone TA-676/G position Direction Finder Report (DFR), coupled with a Sit Control Operator and an outstation, can establish three-way intercommunication.

a. Telephone wiring at J2 is directly coupled, pin-to-pin, to J2 of SB-2602/G Intercom position. The relay and switching functions at J2 establish the third channel of the ICOM.

b. Under the referenced circuit, communication is completed between the SB-2602/G operator, the DFR operator, and an outstation position SB-2600/G or a TA-676/G.

6-11 AUDIO VOLUME COMPRESSION CIRCUIT . See figure 6-8.

a. Volume levels of all signal and intercom lines are maintained at a constant 4DBM (zero decibels, maximum) level by use of a standard compression circuit as shown in figure 6-8. The basic circuit consists of a 4-transistor stage compandor, with output voltage level limited at emitter of Q4.

b. Volume compression circuits are transistorized, printed circuit board plug-in assemblies. These circuits appear as AMP boards in OA-7735/G, SB-2602/G, TA676/G, and SB-2600/G.

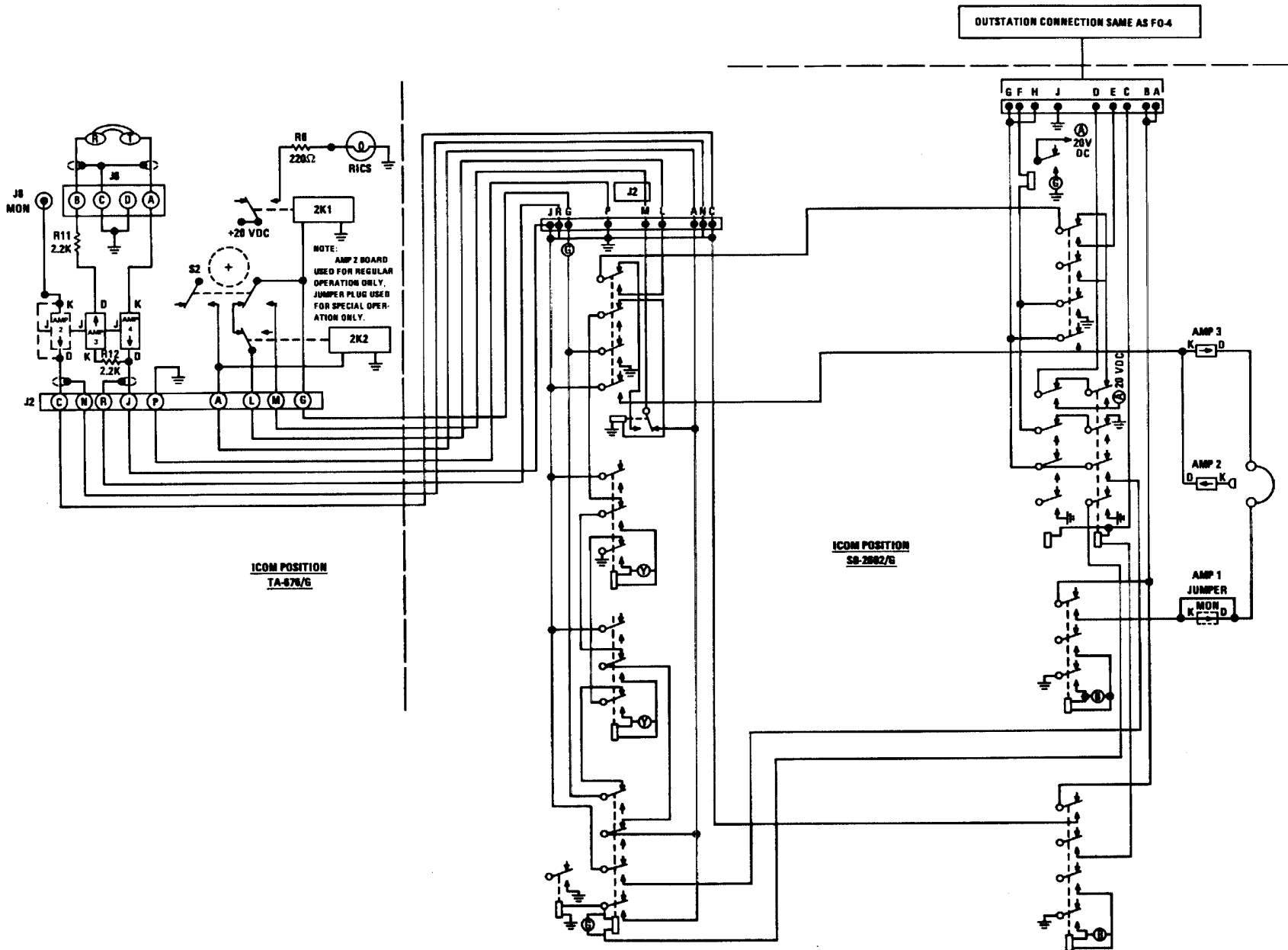


Figure 6-7. ICOM Circuit, Special Intercom

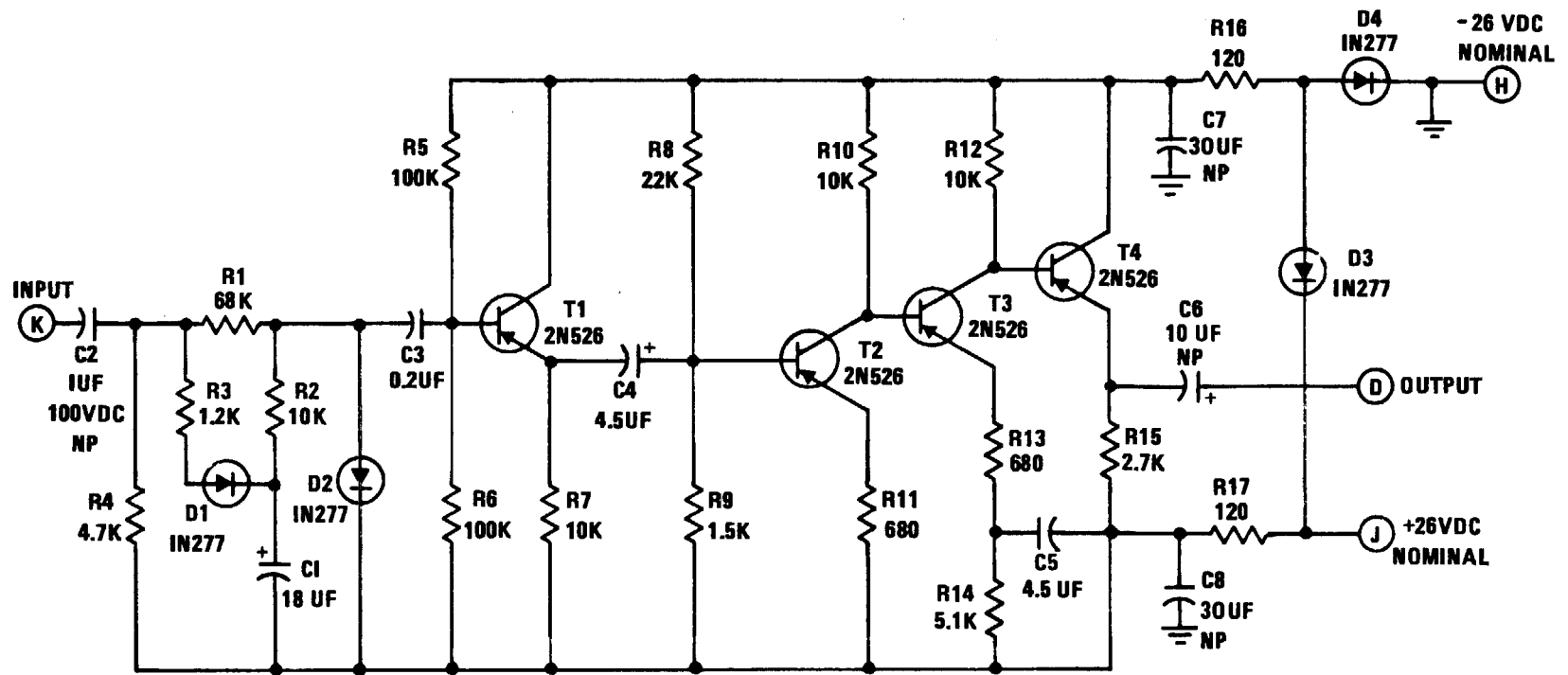


Figure 6-8. Audio Volume Compression Unit Circuit

Section III. RADIO FREQUENCY DISTRIBUTION DETAILED THEORY

6-12 GENERAL. Radio frequency (RF) energy induced in Antenna Sets AS-341/GR is coupled by antenna transmission lines to Connector Assembly MX-7141/M. An RF system may include external antenna sets, Connector Assembly MX-7141/M, RF Patch Panels SB-2235/G, Antenna Couplers CU-872A/U, and Radio Receiver R-390A/URR.

6-13 CONNECTOR ASSEMBLY MX-7141/M. This position provides a common entry and access point for all information signals employed in the AN/MSQ-71 system. There are 44 UG-570/U RF connectors on this panel. Antenna 1 through antenna 11 input positions and line 2 through line 33 output positions are shown in figures 2-1, 6-3, and 6-9. Antenna input cables from the feedthrough to RF patch panels are CG-(1000)/U through CG-(1010)/U. Line output cables from RF patch panels to the feedthrough are CG-(1011)U through CG-(1043)U.

6-14 RADIO FREQUENCY PATCH PANELS SB-2235/GR. Radio frequency patching of SB-2235/GR No. 1 (figures 2-1 and 6-9) consists of 11 RF inputs which can be patched to SB-2235/GR No. 2 to No. 7 inputs and to receiver position inputs No. 36 through 42 on SB-2235/GR No. 111. Antenna coupler outputs 1 through 8

on Patch Panels SB-2235/GR No. 2 through No. 7 can be patched to line output positions 1 through 33 on SB-2235/GR No. 8, No. 9, and No. 10.

6-15 ANTENNA COUPLER CU-872A/U. See figures 2-1 and 6-9. Antenna couplers No. 1 through 6 are directly coupled to RF Patch Panels SB-2235/GR No. 2 through 7. RF cables CG-1044/U, CG-1046/U, CG-1048/U, CG1050/U, CG-1052/U, and CG-1054/U are used for direct patching from coupler output to RF patch panels. RF cables CG-1045/U, CG-1047/U, CG-1049/U, CG-1051/U, CG-1053/U, and CG-1055/U are the SB-2235/GR output cables to the coupler inputs. See NAVSHIPS 94490 for a detailed theory of operation of Antenna Coupler CU872A/U.

6-16 RECEIVER INPUT, R-390/URR. See figures 2-1 and 6-9. The RF Patch Panel SB-2235/GR, positions 36 through 42, is directly interconnected by cables CG-1056/U through CG-1062/U to Radio Receiver R-390A/URR and the RFP position.

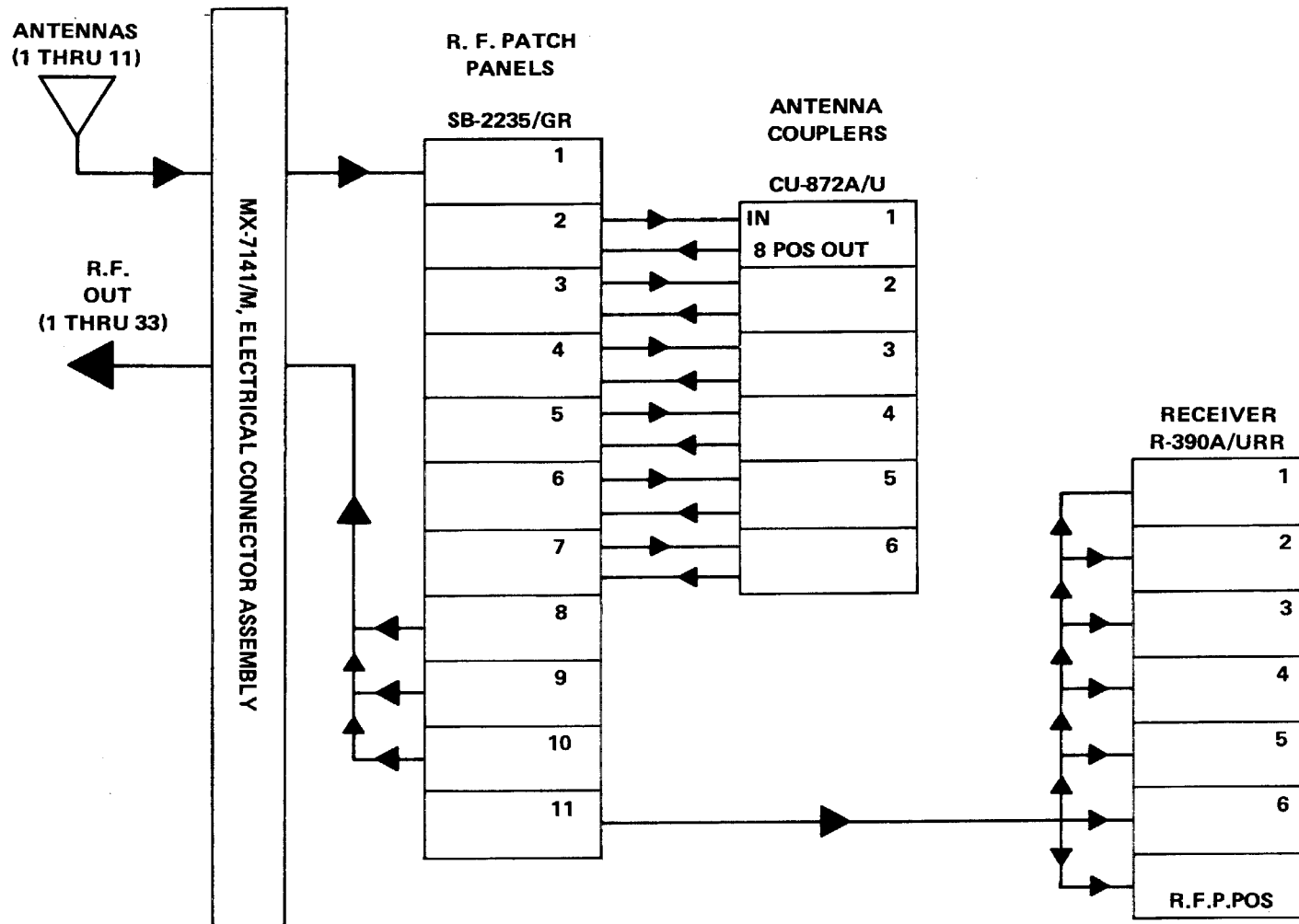


Figure 6-9. Block Diagram, Radio Frequency Distribution

CHAPTER 7

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

Section I. GENERAL

7-1 SCOPE. Direct support and general support maintenance consists of sectionalizing, localizing, and isolating equipment faults, malfunctions, and problems, and making the necessary repairs based on the findings. General techniques are provided, followed by troubleshooting charts for specific equipment in the baseline configuration. Equipment covered in other manuals is listed below.

<u>Equipment</u>	<u>Manuals</u>
Radio Receiver R-390A/URR	TM 11-5820-358-35
Antenna Coupler CU-872A/U	NAVSHIPS 94490

<u>Equipment</u>	<u>Manuals</u>
Teletypewriter Set AN/TGC-14	TM 11-5815-206-12

7-2 FUNCTIONAL DIAGRAMS. Location diagrams show the components that are used to perform a particular function. Wiring diagrams show the electrical function of the components in the system. These diagrams are integrated with and referenced in the troubleshooting procedures.

Section II. TOOLS AND EQUIPMENT

7-3 TEST EQUIPMENT. Test equipment required for troubleshooting is listed below.

<u>Equipment</u>	<u>NSN</u>
Multimeter AN/USM-223	6625-00-999-7465
Audio Signal Generator AN/USM-205	6625-00-788-9672
Oscilloscope (Tektronix 321A)	

7-4 PRECAUTIONS. Observe the following precautions:

- a. The AN/MSQ-71 equipment contains transistor circuits. If any equipment item does not have an isolation transformer in its power supply circuit, connect one in the power input circuit.
- b. Never connect test equipment (other than suitable multimeters and VTVM's) outputs directly to a transistor circuit. Use a coupling capacitor.
- c. Make test equipment connections with care so that shorts will not be caused by exposed test equipment connectors. Tape or sleeve (spaghetti) test probes or clips, as necessary, to make contact with the circuit under test.

d. The equipment power supply normally used is recommended as the source of power when servicing transistorized equipment. Observe polarity. Polarity reversal may damage the transistors as well as electrolytic capacitors in the circuit. If a different power supply is used in place of the power supply normally used with the equipment, it must have good voltage regulation and low ac ripple. Good regulation is important because the output voltage of a poorly regulated supply may exceed the maximum voltage rating of the transistors in the equipment being tested. A power supply that has poor ac filtering will create a false indication of poor filtering in the equipment being tested.

e. The transistorized equipment must be turned off before switching the power supply on or off. The transient voltages, created by turning the test power supply on and off, may exceed the maximum rating of the transistors. Also, be cert: tat' a normal load is connected to the transistorized equipment before applying power.

Section III. TROUBLESHOOTING AND MAINTENANCE OF THE AN/MSQ-71

7-5 GENERAL. The first step in servicing a defective system is to sectionalize the fault, tracing the fault to a major component. The second step is to localize the fault, tracing the fault to a defective part responsible for the abnormal condition. Some faults, such as burnt-out

resistors or arcing and shorted transformers, can often be located by sight, smell, or hearing. Most faults, however, must be isolated by checking voltages and resistances.

a. *Sectionalization.* Listed below is a group of tests arranged to reduce unnecessary work and to aid in tracing trouble. The AN/MSQ-71 consists of many units. The first step is to locate the unit or units at fault. The following methods can be used:

(1) *Visual Inspection.* The purpose of visual inspection is to locate faults without testing or measuring the circuits. All meter readings, scope patterns, or other visual signs should be observed and an attempt made to sectionalize the fault to a particular unit.

(2) *Operational Tests.* Operational tests frequently indicate the general location of trouble. In many instances, the tests will help in determining the exact nature of the fault.

(3) *Substitution of Components.* Substitution of easily interchangeable components can provide a quick method of localizing a fault. For instance, if a microphone is suspected to be at fault, another microphone can quickly be connected and the equipment tested for proper operation. If the system then operates as normal, the first microphone or its cable can be assumed to be at fault.

b. *Localization.* After the trouble has been sectionalized, the methods listed below will aid in localizing the trouble to a stage or module in the suspected unit.

(1) *Troubleshooting.* Meter indications, or lack of meter indications, and operational checks provide a systematic method of localizing trouble to a stage or module.

(2) *Signal Substitution.* Signal substitution procedures enable the repairman to localize a trouble quickly to a stage or module. A signal generator, an audio oscillator, and an oscilloscope are units of test equipment that may be used in signal substitution procedures. Observe the precautions in paragraph 74 and follow the signal substitution procedures carefully so that damage to transistors is avoided.

c. *Isolation.* After the trouble has been localized, the methods listed below will aid in isolating the trouble to a defective circuit element.

(1) *Voltage Measurements.* The AN/MSQ-71 equipment is transistorized. When measuring voltages, use tape or sleeving (spaghetti) to insulate the entire test probe, except for the extreme tip. A momentary short circuit can ruin the transistor. Use an electronic multimeter (VTVM) if possible.

(2) *Resistance Measurements.* Resistance measurements are an effective means of detecting open leads, faulty resistors, or shorted capacitors. Since this equipment contains transistors, the following caution must be observed:

CAUTION

Before using any ohmmeter to test transistors or transistor circuits, check the open circuit voltage across the ohmmeter test leads. Do not use the ohmmeter if the open circuit voltage exceeds 1.5 volts. Also, since the RX1 range normally connects the ohmmeter internal battery directly across the test leads, the comparatively high current (50 ma or more) may damage the transistor under test. As a general rule, it is not recommended that the RX1 range of any ohmmeter be used when testing low power transistors.

(3) *Intermittent Troubles.* In all tests, the possibility of intermittent troubles should not be overlooked. These can be noticed by tapping or jarring the equipment. Make a visual inspection of the wiring and connections to the units. Minute cracks in printed circuit boards can also cause intermittent operation. A magnifying glass is often helpful in locating defects in printed circuit boards. Continuity measurements of printed conductors may be made using the same techniques ordinarily used on conventional wiring. Observe the ohmmeter precaution set forth in paragraph (2) above.

7-6 TROUBLESHOOTING TA-676/G.

a. *General.* Perform the procedures for sectionalizing, localizing, and isolating trouble to a particular circuit in the Telephone Set TA-676/G.

b. *Diagrams.*

(1) *Wiring Diagram.* See figure 7-1 for the Telephone Set TA-676/G wiring diagram. This diagram outlines the electrical means of performing maintenance on this unit. The set, as shown, consists of connectors, audio volume compression units (AMP 1 through AMP 4), switches, relays, and associated wiring.

(2) *Circuit Diagram.* The circuit diagram for power supplies PSI and PS2 is shown in figure 7-2. Resistor location wiring on AMP 1 through AMP 4 connectors is shown. Power supplies, components, and output operating voltages are shown on the circuit diagram.

(3) *Jacks.* Location of jacks is shown in figure 3-1 for the interconnecting cabling on the Telephone Set TA-676/G.

c. *Troubleshooting Chart.* Table 7-1 lists the trouble symptoms, the probable troubles, and the corrective actions to be taken.

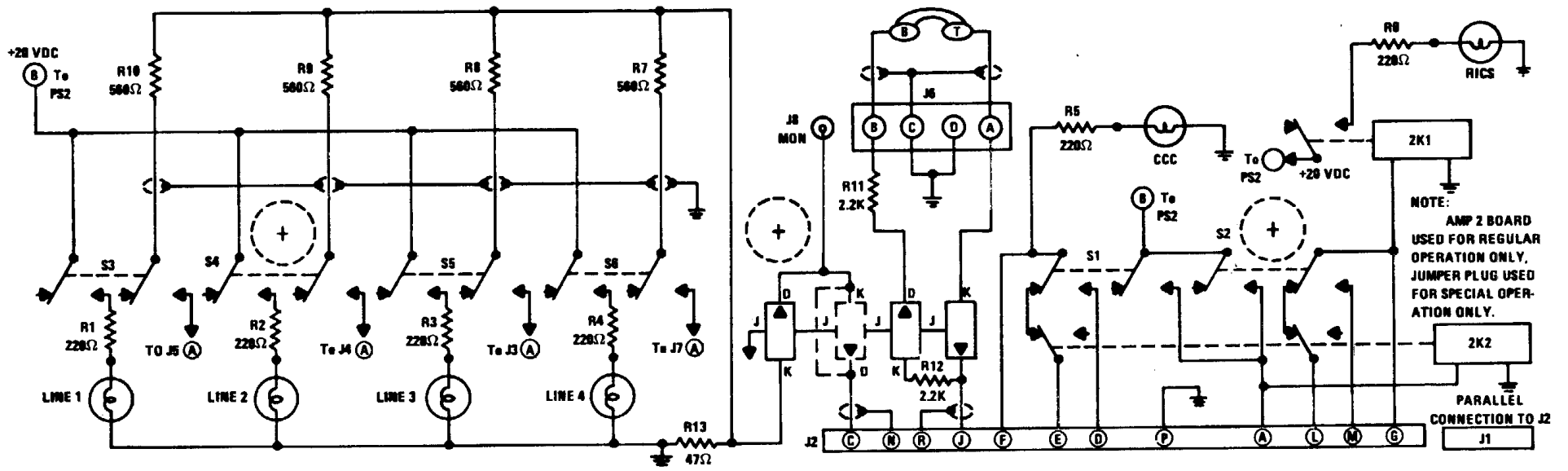


Figure 7-1. Wiring Diagram, Telephone Set TA-676/G

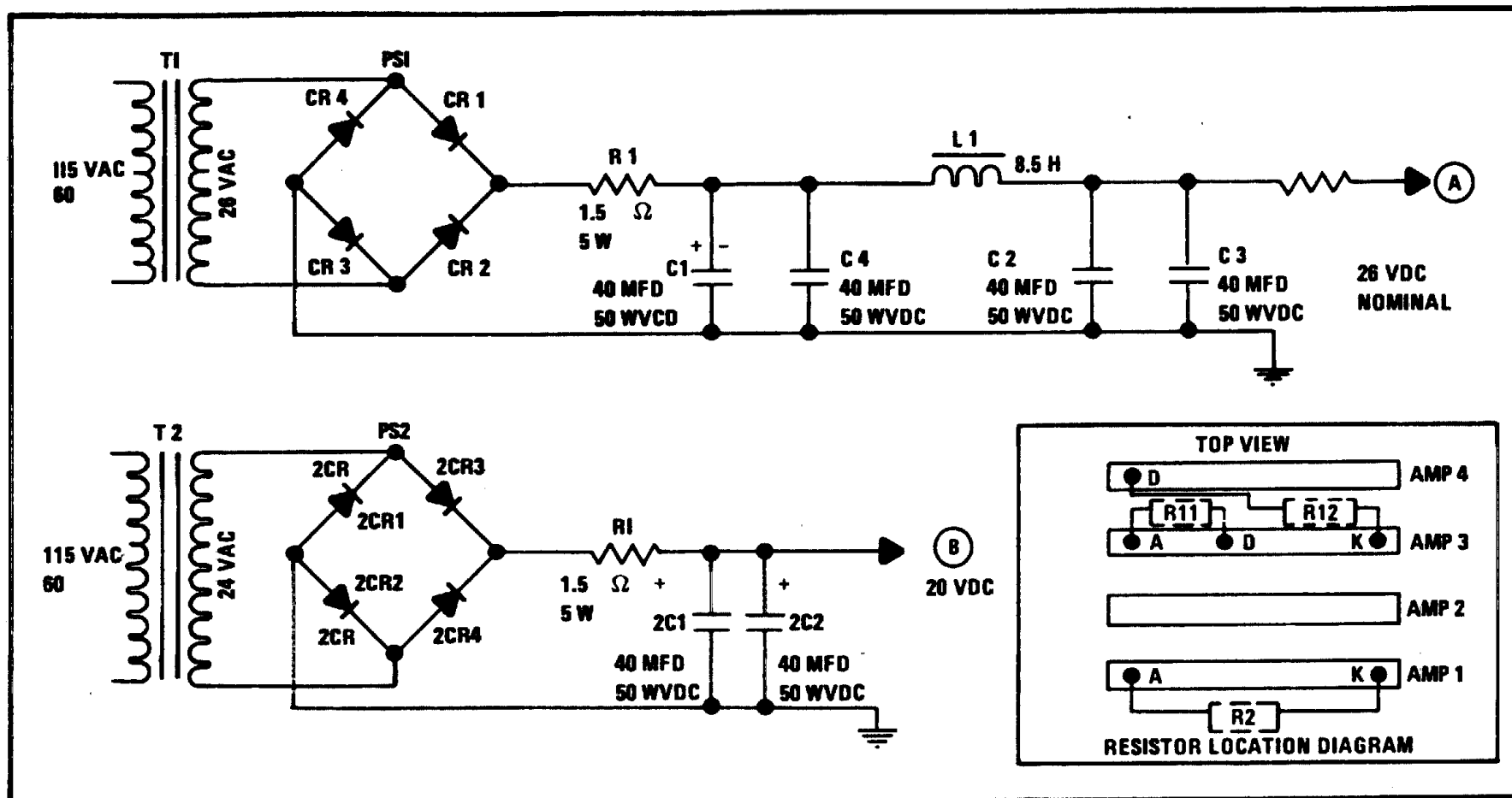


Figure 7-2. Circuit Dim, Power Supply, Telephone Set TA-676/G

Table 7-1. Troubleshooting Telephone Set TA-676/G

Item number	Trouble symptom	Probable trouble	Corrective action
1	No power indication.	Defective power supply PS2	Check 20 Vdc output of PS2 (figure 7-2). Remove and replace faulty PS2 component.
2	Inability to transmit or receive.	Defective handset	Substitute handset with a handset that is known to be operable. If telephone set operates normally, the first handset or its cable is defective. Replace handset.
		Defective power supply PSI	Check for 26 Vdc output of PS1 (figure 7-2). Remove and replace faulty PS 1 component.
3	Inability to receive on RICS or CCC position.	Defective amplifier board No. 4	Interchange amplifier board No. 1 or No. 2 with amplifier board No. 4. Replace defective component on board No. 4.
4	Inability to transmit on RICS or CCC position.	Defective amplifier board No. 3	Interchange amplifier board No. 1 or No. 2 with amplifier board No. 4. Replace defective components on board No. 4.
5	Inability to monitor on individual channel.	Defective monitor switches S3 through S6	Monitor switch held in closed position; check for 20 Vdc at switch holding coil. With 20 Vdc present and coil de-energized, switch is defective. Remove and replace switch.
6	Inability to monitor.	Defective amplifier boards No. 1 and No. 2	Interchange amplifier board No. 1 or No. 2 with amplifier board No. 3 or No. 4. Replace defective component on boards No. 1 and No. 2.
7	Blinkers do not operate.	Burnt-out light bulbs	Remove and replace bulbs as required.
		Defective power supply PS2	Refer to figure 7-1. Check 115 Vac input to power supply PS2. Check for 20 Vdc at output of power supply. If no output power, supply is defective. Remove and replace faulty PS2 components as required.

7-7 TROUBLESHOOTING OA-7735/G.

a. *General.* Perform the procedures indicated below for sectionalizing, localizing, and isolating trouble to a particular circuit in the Communications Control Console (CCC) OA-7735/G.

b. *Diagrams.*

(1) *Location Diagram.* Refer to figure 7-3. There are 18 identical stations. Corresponding switches and relays are shown in numerical sequence. A rear view of the CCC panel indicates the proper jack location for station, trunk, phone, and channel transfer relay connections.

(2) *Wiring Diagram.* Refer to FO-5. This diagram outlines the electrical means of performing maintenance on this unit. The unit consists of a power supply, a blinker circuit, an audio volume compression unit, and connectors, switches, relays, and associated wiring.

c. *Troubleshooting Chart.* Table 7-2 lists the trouble symptoms, the probable troubles, and the corrective actions to be taken.

Table 7-2. Troubleshooting Communications Control Console OA-7735/G

Item number	Trouble symptom	Probable trouble	Corrective action
1	No power indication.	Burned fuse Defective power supply PS1	Check fuse F-1 located at rear of OA-7735/G console. Refer to FO-5. Check 115 Vac input to power supply PS1 at terminal board TB2. Check for 26 Vdc at output of power supply. If no output, power supply is defective. Remove and replace faulty (PSI) component.
2	Blinkers fail to operate.	Defective power supply PS2 No output from blinker boards B1 and B2 to intercom switch S18	Refer to FO-5. Check 115 Vac input to power supply PS1 at terminal board TB3. Check for 24 Vdc output of power supply. If no output, power supply is defective. Remove and replace faulty PS1 component. Refer to FO-5. Check output of blinker board Pin C to intercom switch S18.
3	Inability to transmit and receive all stations.	Defective amplifier No. 1 or No. 2 No wiring continuity from amplifier boards No. 1 and No. 2 to intercom switch	Trouble in amplifier may be isolated by substituting suspected amplifier board with a board that is known to be operable, since boards No. 1, No. 2, and No. 3 are interchangeable. Refer to FO-5 and check continuity from amplifier boards No. 1 and No. 2, sockets D and K, respectively, to intercom switch S1.

Table 7-2. Troubleshooting Communications Control Console OA-7735/G - Continued

Item number	Trouble symptom	Probable trouble	Corrective action
4	Inability to transmit and receive individual stations	<p>Faulty electrical connections</p> <p>Defective switches</p> <p>Faulty electrical connections at outstations</p>	<p>Check that all connectors on rear panel are mated properly.</p> <p>Refer to FO-5. Check electrical continuity and proper operation of switches that are in inoperative mode. Remove and replace defective switches.</p> <p>Check that all connectors corresponding to inoperative stations are secure.</p>
5	Inability to transmit to all stations.	<p>Defective amplifier board No. 1</p> <p>No continuity between microphone jack J28 on OA-7735/G console and amplifier board No. 1</p> <p>No continuity between amplifier board and intercom switch S 1</p> <p>Defective microphone</p>	<p>Trouble in amplifiers may be isolated by substituting suspected amplifier board with a board that is known to be operable. Amplifier boards No. 1, No. 2, and No. 3 are interchangeable.</p> <p>Refer to FO-5. Check continuity from J28 pin 1 to amplifier board No. 1, socket K.</p> <p>Refer to FO-5. Check continuity from amplifier board No. 1, socket D, to intercom switch S1.</p> <p>Substitute suspected microphone with a microphone that is known to be operable. If all stations operate normally, first microphone or its cable is defective.</p>
6	Inability to receive all stations.	<p>Defective amplifier board No. 2</p> <p>Defective headset</p> <p>No continuity between headset jack J28 on OA-7735/G console and amplifier board No. 2</p> <p>No continuity between amplifier board No. 2 and intercom switch S1</p>	<p>Trouble in amplifiers may be isolated by substituting suspected amplifier board with a board that is known to be operable. Amplifier boards No. 1, No. 2 and No. 3 are interchangeable.</p> <p>Substitute suspected headset with a headset that is known to be operable. If all stations operate normally, first headset or its cable is defective.</p> <p>Refer to FO-5. Check continuity from J28 pin 2 to amplifier board No. 2, socket D.</p> <p>Refer to FO-5. Check continuity from amplifier Board No. 2, socket K, to intercom switch S 1.</p>

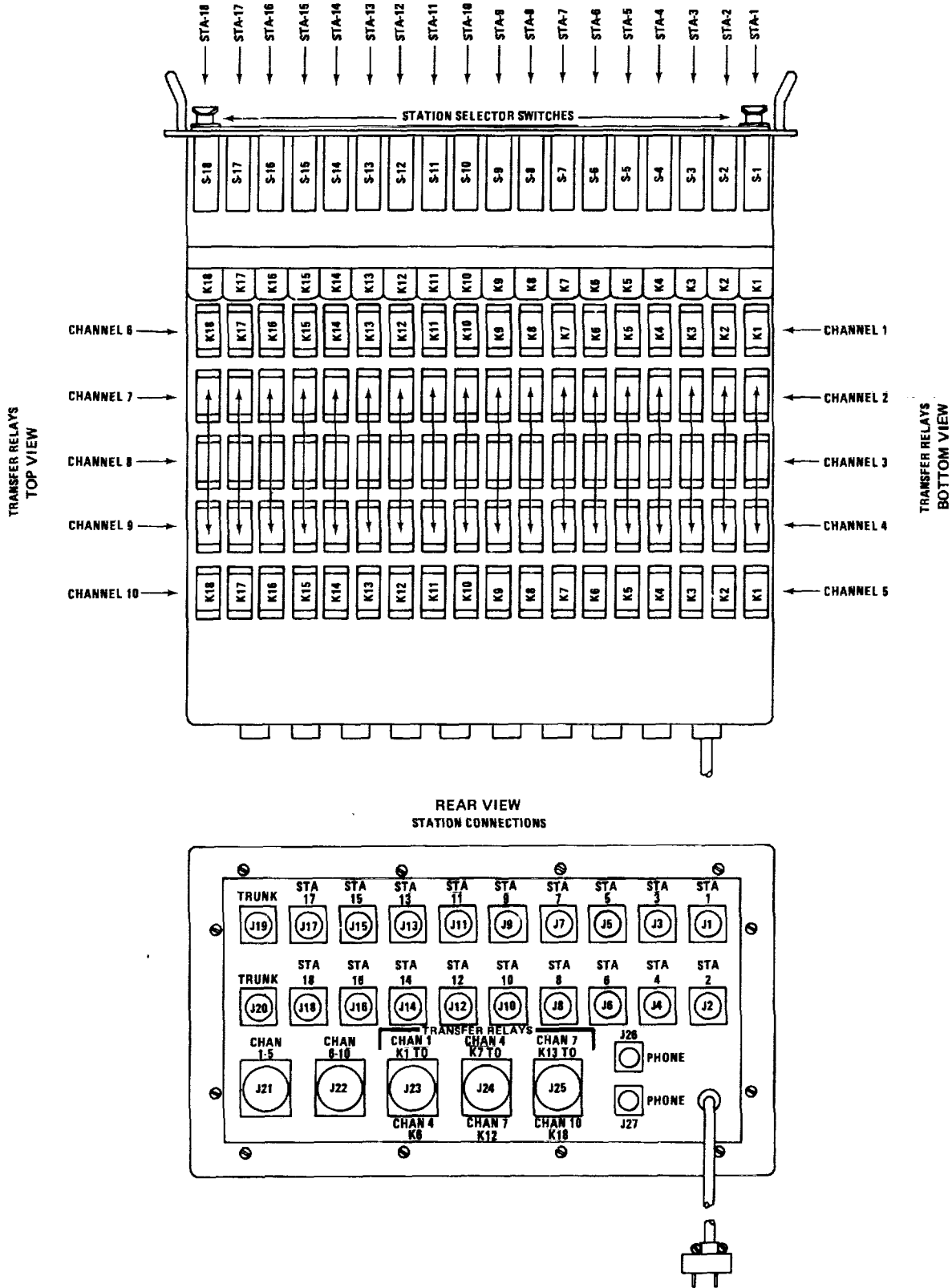


Figure 7-3. Location Diagram, Communications Control Console OA-7735/G

7-8 TROUBLESHOOTING SB-2601/G.

a. *General.* Perform the procedures indicated below for sectionalizing, localizing, and isolating trouble to a particular circuit in the Intercommunication Switchboard SB-2601/G.

b. *Diagrams.*

(1) The location diagram for SB-2601/G is shown in figure 7-4. There are 29 external intercommunication positions in AN/MSQ-71 which can be transferred individually to any one of 10 channels on RICS. Location of the transfer switches and relays are shown in figure 7-4. Also, the rear view of SB-2601/G

indicates the proper jack location for stations 1 through 29 and the switch light indicator on the RICS.

(2) Wiring diagram for SB-2601/G is shown in FO-6. This diagram outlines a complete electrical means of performing maintenance on this unit. It consists of connectors, switches, relays, and associated wiring.

c. *Troubleshooting Chart.* Table 7-3 identifies the trouble symptoms, the probable troubles, and the corrective actions to be taken

Table 7-3. Troubleshooting Intercommunication Switchboard SB-2601/G

Item number	Trouble symptom	Probable trouble	Corrective action
1	No power indication.	Burnt-out fuse (located at rear of SB-2602/G) Faulty electrical connections or wiring between SB-2601/G and SB-2602/G Defective power supply PS2 (located in SB-2602/G)	Remove and replace burnt-out fuse. Check power cable connections at connector J1 on SB-2601/G and J1 on SB--2602/G. Check continuity and/or voltage to SB-2601/G. Refer to FO-6. Check 115 Vac input to power supply PS2 at terminal board TB1. Check for 20 Vdc at output. If no output, power supply is defective. Remove and replace faulty PS2 components as required.
2	Inability to transfer individual channels.	Defective station transfer switches S1 through S10	Refer to FO-6. Check for electrical continuity and proper operation of station transfer switches SI through S10.
3	Inability to transfer an individual station on all channels.	Defective SB-2600/G Faulty electrical connections	Troubleshoot suspected SB-2600/G as outlined in table 7-5. Check cable connections at J5 of SB-2600/G and J1 through J18 at OA-7735/G to be sure they are secure.
4	Inability to transfer an individual station on a specific channel.	Defective relays KI through K18 (located in OA-7735/G console)	Refer to FO-6 for presence of 20 Vdc at relay coils K1 through K18. If 20 Vdc is present and relay coil is not energized, relay is defective. Remove and replace relay.

Table 7-3. Troubleshooting Intercommunication Switchboard SB-2601/G - Continued

Item number	Trouble symptom	Probable trouble	Corrective action
5	Inability to transfer any one of the following groups of stations on a specific channel: STATIONS: 1- 9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80-89 90-99	Defective corresponding relay KO through K9	Refer to FO-6. Transfer function of any one station; check for presence of 20 Vdc at relay coils KO through K9. If 20 Vdc is present and relay is not energized, relay is defective. Remove and replace relay.

7-9 TROUBLESHOOTING SB-2602/G.

a. General. Perform the procedures indicated below for sectionalizing, localizing, and isolating trouble to a particular circuit in the Radio Intercept Control Switchboard (RICS) SB-2602/G.

b. Diagrams.

(1) The location diagram for the RICS is shown in figure 7-5. There are ten transfer channels and six special stations which indicate the corresponding switches and relays. Location of power supplies No. 1 and No. 2 components, blinker board, and AMP 1 through AMP 4 boards are

indicated. The rear view of the RICS shows the proper jack location for intercommunication channels 1 through 10 and transfer control and special stations 1 through 6 connections.

(2) The wiring diagram for the RICS is shown in FO-7. This diagram indicates a complete electrical means of performing maintenance on this unit. It consists of power supplies, blinker circuit, audio volume compression unit, connectors, switches, relays, and associated wiring.

c. Troubleshooting Chart. Table 7-4 lists the trouble symptoms, the probable troubles, and the corrective actions to be taken.

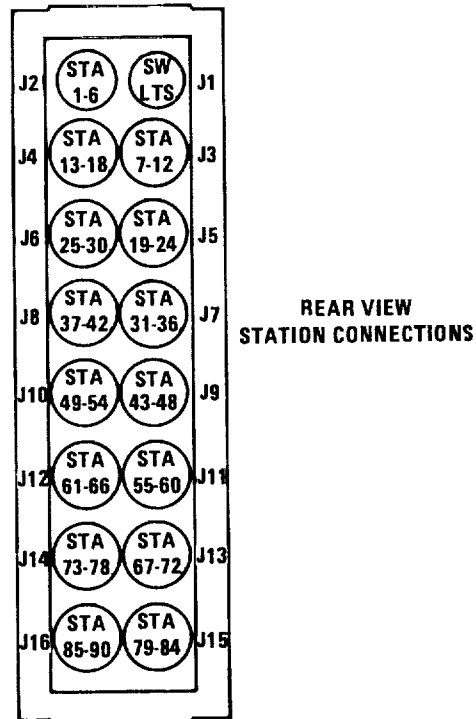
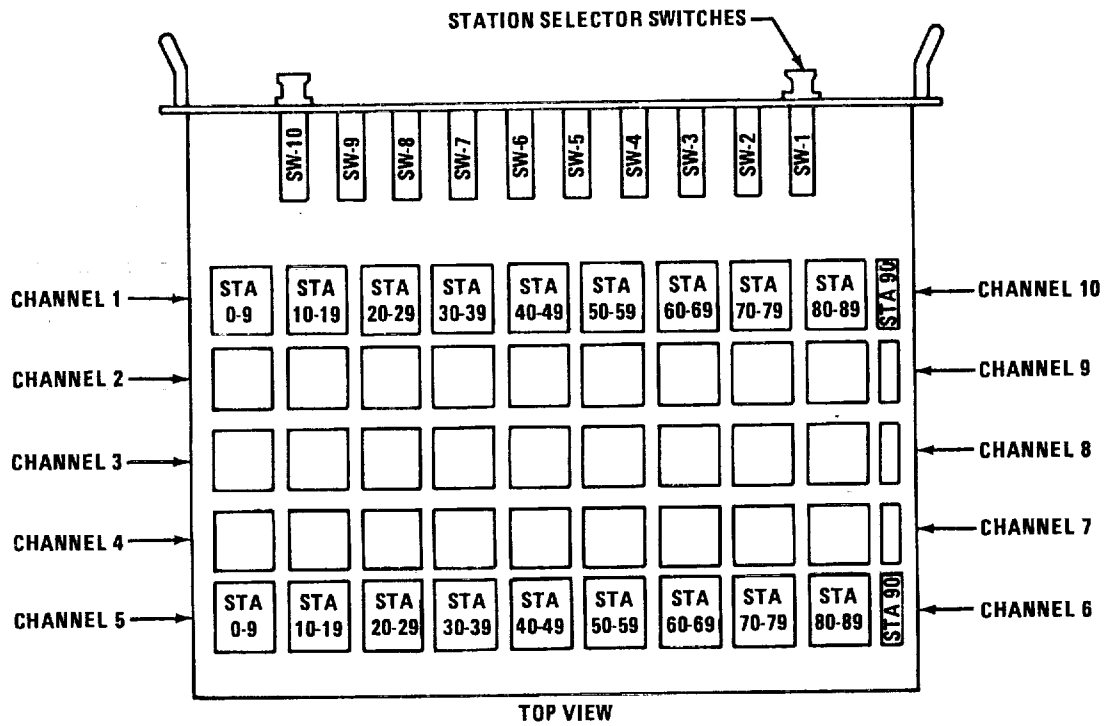


Figure 7-4. Location Diagram, Intercommunication Switchboard SB-2601/G

Table 74. Troubleshooting Radio Intercept Control Switchboard SB-2602/G

Item number	Trouble symptom	Probable trouble	Corrective action
1	No power indication.	<p>Burnt-out fuse</p> <p>Defective power supply PSI</p>	<p>Check fuse F-1 located at rear of SB-2602/G.</p> <p>Refer to FO-7. Check 115 Vac input to power supply PSI at terminal board TB1. Check for 26 Vdc at output of power supply. If no output, power supply is defective. Remove and replace faulty PSI component as required.</p>
2	Monitor lights and special intercom fail to operate.	Defective power supply PS2	<p>Refer to FO-7. Check 115 Vac input to power supply PS2 at terminal board TB1.</p> <p>Check for 24 Vdc at output of power supply. If no output, power supply is defective. Remove and replace faulty PS2 component as required.</p>
3	Blinker circuit fails to operate.	Defective power supply PS3	<p>Refer to FO-7. Check 115 Vac input to power supply PS3 at terminal board TB1.</p> <p>Check for 24 Vdc at output of power supply. If no output, power supply is defective. Remove and replace faulty PS3 component as required.</p>
4	Inability to transmit.	<p>Defective amplifier board No. 2</p> <p>Defective headset, microphone</p>	<p>Trouble in amplifiers may be isolated by substituting suspected amplifier board with a board that is known to be operable. Amplifier boards No. 1, No. 2, and No. 3 are interchangeable.</p> <p>Substitute suspected headset with a headset that is known to be operable. If headset operates normally, first headset or its cable is defective.</p>
5	Inability to receive.	<p>Defective amplifier board No. 3</p> <p>Defective headset</p>	<p>Troubleshoot as in item 4 above.</p> <p>Troubleshoot as in item 4 above.</p>
6	Lamps, relays, and blinkers operate normally, but transmit, receive, and monitor functions fail.	Defective power supply PSI	<p>Refer to FO-7. Check for 115 Vac at power supply transformer pins X and Y. Check for 26 Vdc at output of power supply. If no output, power supply is defective. Remove and replace faulty PS1 component as required.</p>

Table 7-4. Troubleshooting Radio Intercept Control Switchboard SB-2602/G - Continued

Item number	Trouble symptom	Probable trouble	Corrective action
6 continued		No continuity between power supply PSI and terminal board TB-1	Check continuity from terminal board TB-1 terminals 1 and 2 to PSI transformer, terminals X and Y, respectively.
7	Intercom fails to function (individual status).	Defective intercom switches S1 through S10	Check for electrical continuity and proper operation of intercom switches S1 through S10.
8	Monitor switches will not hold when depressed (all channels).	Defective MON OFF switch S21	Check for electrical continuity and proper operation of MON OFF switch S21.
9	Monitor switches will not hold when depressed (individual channels).	Defective magnetically-held type monitor switches S11 through S20	With monitor switch held in the closed position, check for presence of 20 Vdc at switch holding coil. If 20 Vdc is present and coil is not energized, switch is defective. Remove and replace switch.
10	Special monitor switches will not hold when depressed (all channels).	Defective MON OFF switch S32	Check for electrical continuity and proper operation of MON OFF switch S32.
11	Special monitor switches will not hold when depressed (individual channels).	Defective magnetically-held type monitor switches S22 through S31	Hold monitor switch in the closed position; check for presence of 20 Vdc at switch holding coil. If 20 Vdc is present and coil is not energized, switch is defective. Remove and replace switch.
12	Station transfer indicator lamps on SB-2602/G do not illuminate when station transfer is completed at SB-2601/G.	Faulty electrical connections .	Check that power cable connections at J1 of SB-2602/G and J1 of SB-2601/G are secure
		No continuity between the output of power supply PS2 and connector J1.	Check continuity from the output of power supply PS2 to connector J1, pin L.
13	First special intercom operator cannot monitor any outstation on individual channels.	Defective magnetically-held type monitor switch SW22 through SW31	With monitor switch held in the closed position, check 20 Vdc at switch holding coil. With 20 Vdc present and coil not energized, switch is defective. Remove and replace.

Table 74. Troubleshooting Radio Intercept Control Switchboard SB-2602/G - Continued

Item number	Trouble symptom	Probable trouble	Corrective action
14	First special intercom operator cannot monitor any outstation on all tion on all channels.	Defective MON OFF switch SW32 Lack of 20 Vdc to MON OFF switch SW32	Check for electrical continuity and proper operation of MON OFF switch With MON OFF switch SW32 in the open position, check for presence of 20 Vdc across common terminals of switch. If 20 Vdc is not present, check continuity of circuit.
15	Special intercom operator is unable to talk to individual station being monitored.	Defective relays K1 through K10 corresponding to inoperative channel selection.	Transfer outstation to the special intercom operator via SB-2601/G and SB-2602/G special monitor channel, depress SPEC ICOM switch SW62 and check for presence of 20 Vdc at relay coils K1 through K10. If 20 Vdc is present and relay is not energized, relay is defective. Remove and replace relay.
16	Special intercom operator is unable to talk to the particular station being monitored (all channels).	Defective magnetically-held type SPEC ICOM switch SW62 Defective relay K42	Transfer outstation to the operator through the special intercom SB-2601/G and nonfunctioning SB-2602/G special monitor channel. Depress magnetically-held type SPEC ICOM switch SW62 and check for presence of 20 Vdc at switch SW62 holding coil. If 20 Vdc is present and coil is not energized, switch is defective. Remove and replace switch. Transfer outstation to the special intercom operator. Depress SPEC ICOM switch SW62 and check for presence of 20 Vdc at relay coil K42. If 20 Vdc is present and relay is not energized, relay is defective. Remove and replace relay.

NOTE

Troubleshooting for the second special intercom circuit will be the same as for the first special intercom, since both circuits are identical; however, switch and relay numbers will differ.

17	Special intercom operator is unable to monitor the third, fourth, and fifth special intercom stations.	Defective MON OFF switch SW62 (supplies 20 Vdc to holding coils of magnetically held type special monitor switches SW63, SW64, and SW65).	With any one of the following SPEC MON switches SW63, SW64, or SW65 held in the closed position, check for presence of 20 Vdc at holding coil of the activated SPEC MON switch. If 20 Vdc is not present, MON OFF switch SW62 is defective. Remove and replace switch.
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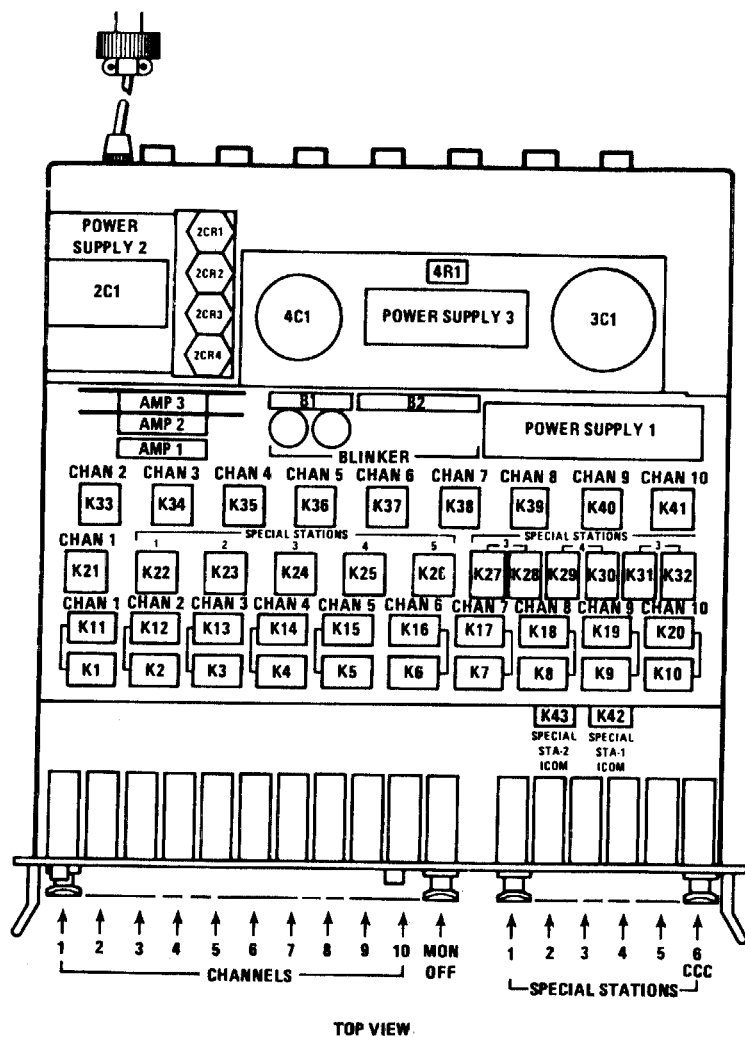
Table 74. Troubleshooting Radio Intercept Control Switchboard SB-2602/G - Continued

Item number	Trouble symptom	Probable trouble	Corrective action
18	Special intercom operator is unable to monitor either the third, fourth, or fifth special intercom stations.	Defective magnetically-held type SPEC MON switch SW63, SW64, or SW65	With the SPEC MON switch held in the closed position, check for presence of 20 Vdc at SPEC MON switch holding coil. If 20 Vdc is not present and coil is not energized, switch is defective. Remove and replace switch.

NOTE

Troubleshooting for the second special intercom circuit and the first row of the special monitor buttons (located at the right-hand side of the switchboard) will be the same as the second row of special monitor buttons, since the function of both rows of the switches are the same; however, switch numbers will differ.

19	Special intercom operator No. 1 is unable to talk to either the 3rd, 4th, or 5th special intercom stations being monitored by the first row of SPEC MON switches.	Defective relay K27, K29, or K31	Special intercom operator No. 1 to monitor special intercom stations through the first row of SPEC MON switches, then depress SPEC ICOM switch SW62 and check for presence of 20 Vdc at relay coils K27, K29, or K31. If 20 Vdc is present and relay is not energized, relay is defective. Remove and replace relay.
20	Special intercom operator No. 2 is unable to talk to either the 3rd, 4th, or 5th special intercom stations being monitored by the SPEC MON switches.	Defective relay K28, K30, or K32	Special intercom operator No. 2 to monitor special intercom stations through the second row of SPEC MON switches, then depress SPEC ICOM switch SW66 and check for presence of 20 Vdc at relay coil K28, K30, or K32. If 20 Vdc is present and relay is not energized, relay is defective. Remove and replace relay.
21	Initiated call to SB-2602/G by any one of the SPEC ICOM stations No. 1 through No. 5 does not blink special intercom stations RICS light, or the SB-2602/G SPEC ICOM light.	Defective relays K22 through K26	Depress RICS switch at special intercom stations 1 through 5 and check for presence of 20 Vdc at relay coil. If 20 Vdc is present and coil is not energized, relay is defective. Remove and replace relay.



KEY:
 BLINKER RELAYS
 ICOM RELAYS

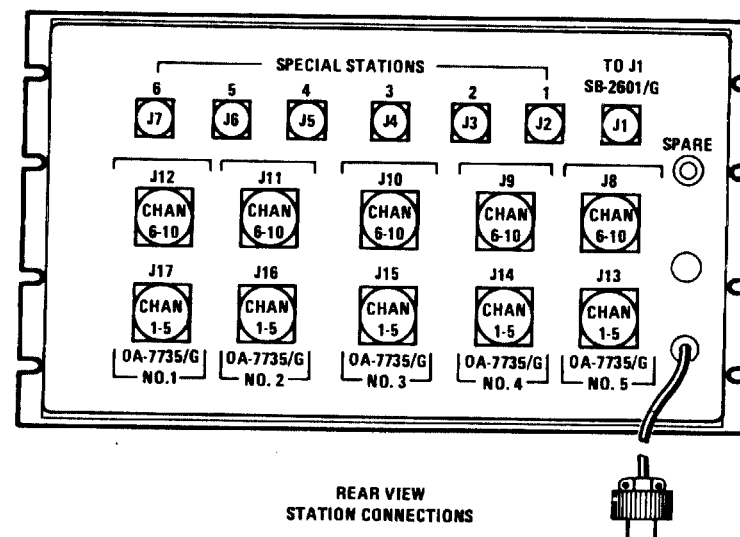


Figure 7-5. Location Diagram, Radio Intercept Control Switchboard SB-2602/G

7-10 TROUBLESHOOTING SB-2600/G.

a. *General.* Perform the procedures indicated below for sectionalizing, localizing, and isolating trouble to a particular circuit in the Monitor Control Panel SB-2600/G (MWO 32-5895-227-15-1).

b. *Diagrams.*

(1) The recorder (monitor and control) position is shown in figure 7-6. This cable diagram indicates the proper connector cabling required to perform maintenance functions established with the SB-2600/G.

(2) The wiring diagram for the SB-2600/G is shown in FO-8. This diagram indicates a complete electrical means of performing maintenance on this unit. It consists of power supplies, audio volume compression

units, connectors, switches, relays, and associated wiring.

(3) A single-station position requires pin-to-pin wiring on MX-7142/G as shown in figure 6-4 and is similar to the connector wiring in figure 6-4.

(4) A multistation position requires wiring on MX-7143/G as shown in figure 6-4 and is similar to connector wiring in figure 6-4.

c. *Troubleshooting Chart.* Table 7-5 lists the trouble symptoms, the probable troubles, and the corrective actions to be taken.

Table 7-5. Troubleshooting Monitor Control Panel SB-2600/G

Item number	Trouble symptom	Probable trouble	Corrective action
1	No power indication.	Burnt fuse Defective PS2	Check fuse F-1 located at rear of SB-2600/G. Remove and replace defective fuse. Refer to FO-8. Check 115 Vac input at TB-5. Check for 24 Vdc at positive side of 2C2. If no output, power supply is defective. Remove and replace faulty PS2 component as required.
2	RCVR 1 and RCVR 2 monitor positions inoperative.	Defective power supply PSI Defective amplifiers No. 1 and No. 2	Refer to FO-8. Check 115 Vac input at TB-5. Check for 26 Vdc at positive side of C3. If no output, power supply is defective. Remove and replace faulty PS1 component as required. Interchange amplifier No. 3, No. 4, or No. 5 with defective positions. Remove and replace faulty component on amplifier.
3	Inability to monitor RCVR 1 or RCVR 2.	Defective monitor switch (S1) or (S2)	With monitor switch held in closed position, check for 24 Vdc at switch holding coil. With 20 Vdc not present and coil deenergized, switch is defective. Remove and replace switch.
4	Indicators do not operate.	Burnt-out indicator light Defective PS2	Remove and replace bulb, as required. Refer to FO-8. Check 115 Vac input to power supply. Then, check for 24 Vdc at output (+) side of 2C2. If no output, power supply is defective. Remove and replace faulty PS2 components as required.

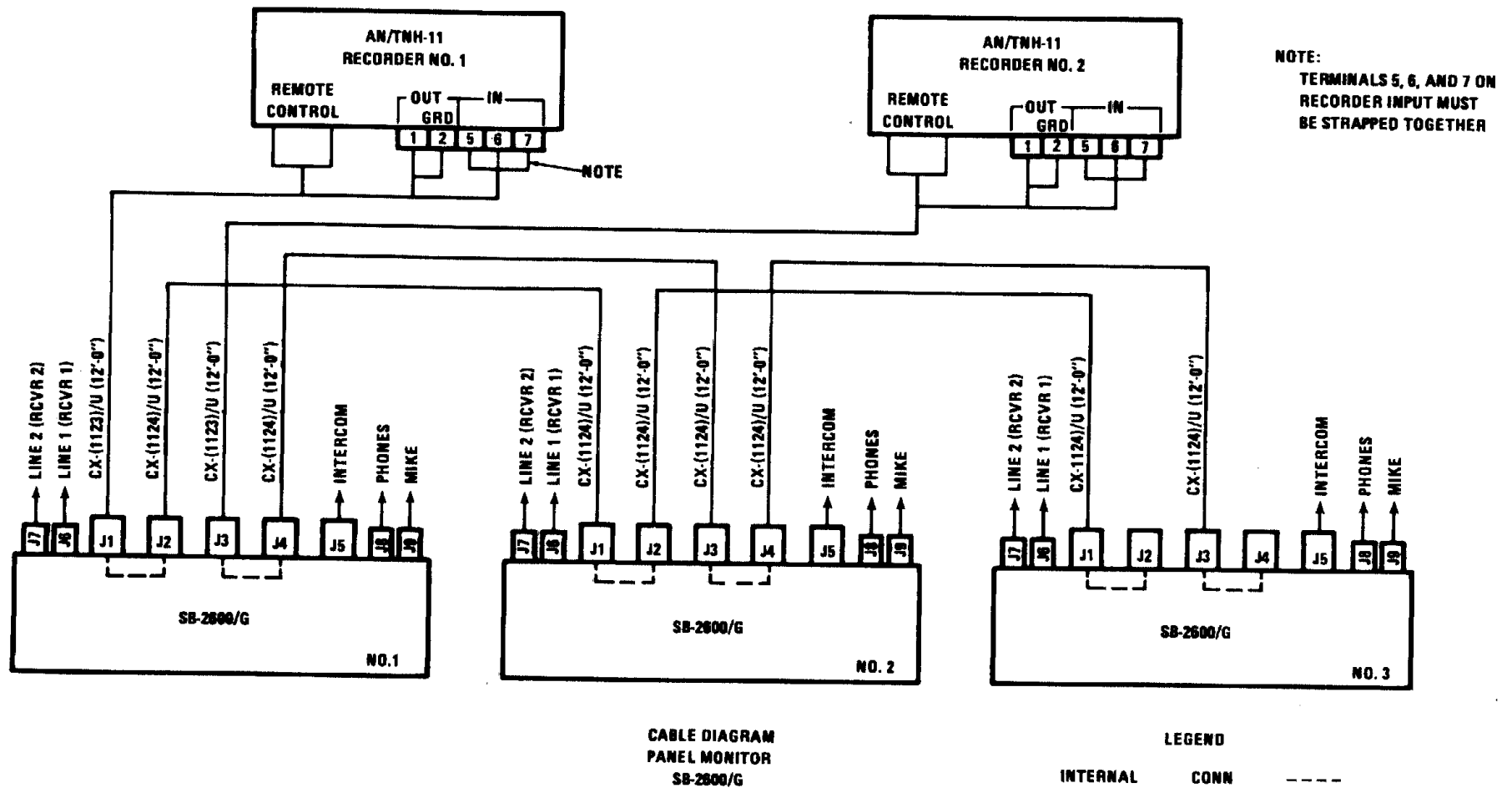


Figure 7-6. Cable Diagram, Monitor Control Panel SB-2600/G

Table 7-5. Troubleshooting Monitor Control Panel SB-2600/G - Continued

Item number	Trouble symptom	Probable trouble	Corrective action
5	Inability to record receiver output on recorder No. 1	Defective switch S3, S5, or S6	Refer to FO-8. Check continuity of switch function. Isolate contact failure, remove and replace switch.
		Defective relay K1, K2, or K3	Refer to FO-8. Check continuity of relay function. Isolate contact failure; remove and replace relay.
		Defective resistor R1	Refer to FO-8. Check 10 k ohm resistance. If no resistance, remove and replace R1.
6	Inability to record receiver output on recorder No. 2	Defective switch S4, S7, or S8	Refer to FO-8. Check continuity of switch functions. Isolate control failure, remove and replace switch.
		Defective relay K4, K5, or K6	Refer to FO-8. Check continuity of relay function. Isolate contact failure; remove and replace relay.
		Defective resistor R2	Refer to FO-8. Check 10 k ohm resistance If no resistance, remove and replace R2.
7	Inoperable REC MON switch.	Defective switch S9	Refer to FO-8. Check continuity of switch function. Isolate contact failure, remove and replace switch.
		Defective relay K3 or K6	Refer to FO-8. Check continuity of relay function. Isolate contact failure; remove and replace relay.
8	Inoperable MIKE DUB switch.	Defective switch S10	Refer to FO-8. Check continuity of switch function. Isolate contact failure, remove and replace switch.
		Defective relay K3 or K6	Refer to FO-8. Check continuity of relay function. Isolate contact failure; remove and replace relay.
		Defective amplifier No. 4	Refer to FO-8. Interchange amplifier No. 4 with amplifier No. 1, No. 2, No. 3, or No. 5. Replace defective components on amplifier No. 4.
		Defective mike	Interchange mike from another position. Replace defective mike.
9	ICOM blinkers fail to operate.	Defective switch S7	Refer to FO-8. Check continuity of switch function. Isolate contact failure, remove and replace switch.

Table 7-5. Troubleshooting Monitor Control Panel SB-2600/G - Continued

Item number	Trouble symptom	Probable trouble	Corrective action
9 continued	Defective relay K7 or K8	Refer to FO-8.	Check continuity of relay function. Isolate failure, remove and replace relay.
10	Inability to transmit.	Defective amplifier No. 3 Defective mike	Refer to FO-8. Interchange amplifier No. 3 with amplifier No. 1 or No. 2. Replace defective component on amplifier No. 4. Interchange mike from another position. Replace defective mike.
11	Inability to receive.	Defective amplifier No. 5 Defective headset	Refer to FO-8. Interchange amplifier No. 5 with amplifier No. 1 or No. 2. Replace defective component on amplifier No. 5. Interchange headset from another position. Replace defective headset.

CHAPTER 8

MATERIEL USED IN CONJUNCTION WITH MAJOR ITEM

8-1 SCOPE. The components in the AN/MSQ-71 baseline configuration are listed in tables 1-1 and 1-2. Other components, such as the central station housing and racks, the central station and outstation accessories, and antennas (which vary, depending on

overall configurations) are identified in the typical arrangements shown in figures 1-1 through 1-4. Refer to the particular station specifications for coverage of these items.

8-1/(8-2 blank)

APPENDIX A

REFERENCES

<u>Reference</u>	<u>Title</u>
NAVSHIPS 94490	Antenna Coupler CU-872A/U
TM 11-5815-206-12	Teletypewriter Set AN/TGC-14
TM 11-5820-358-35	Field and Depot Maintenance Manual, Radio Receiver R-390A/URR
TM 11-6625-654-14	Multimeter AN/USM-223
TM 32-5811-021-14	Operator's, Organizational, Direct Support, and General Support Maintenance Manual for Operational Unit, Transportable System
TM 32-9999-200-24	Operator's, Organizational, Direct Support, and General Support Maintenance Manual for Operations and Electrical Facility, Mobile AN/MSA-34
TM 38-750	The Army Maintenance Management System (TAMMS)
TM 43-0139	Painting Instructions for Field Use
TM 740-90-1	Administrative Storage of Equipment
TM 750-244-2 Command)	Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics
AR 700.42	Classification, Reclassification, Maintenance, Issuance and Reporting of Maintenance Training Aircraft
AR 746-1	Packaging of Army Materiel for Shipment and Storage
CTA 50-970	Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items)
DAPAM 310-4 (Microfiche only)	Index of Technical Publications(Includes: Equipment Identification Lists, Lubrication Orders, Modification Work Orders, Supply Bulletins, Supply Catalogs, Supply Manuals, Technical Bulletins, Technical Manuals Rescinded for Active Army valid for USAR, ARNG.
TB 43-0118	Field Instructions for Painting and Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electrical Equipment Shelters
SB 11-573	Painting and Preservation Supplies Available for Field Use for Electronics Command Equipment
SB 708-41/42	Federal Supply Code for Manufacturers; United States and Canada. Name to Code and Code to Name (GSA-FSS H4-1/H4-2)
SC 5180-91-C-R07	Sets, Kits and Outfits Components List; Tool Kit, Electronic Equipment TK-105/G

<u>Reference</u>	<u>Title</u>
SC 5180-91-CLS21	Sets, Kits and Outfits Components List; Tool Kit, Electronic Equipment TK-100/G
DA Form 2028	Recommended Changes to Publications and Blank Forms
DA Form 2028-2	Recommended Changes to Equipment Technical Publications
DA Form 2404	Equipment/Inspection and Maintenance Worksheet
SF Form 364	Report of Discrepancy (ROD)
SF 368	Quality Deficiency Report
Installation Bulletin Number 81	MMBV-2A HF Radio Receiving Central

APPENDIX B

COMPONENTS OF END ITEM LIST

Section I. INTRODUCTION

B-1 SCOPE. This appendix lists integral components for Communications Central AN/MSQ-71 to help you inventory items required for safe and efficient operation.

B-2 GENERAL. This Components of End Item List is divided into the following sections:

a. Section II. Integral Components of the End Item. These items, when assembled, comprise the AN/MSQ-71 and must accompany it whenever it is transferred or turned in. The illustrations will help you identify these items.

b. Section III. Basic Issue Items (BII). Not applicable.

B-3 EXPLANATION OF COLUMNS.

a. Illustration. This column is divided as follows:

(1) *Figure Number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item Number.* The number used to identify item called out in the illustration.

b. National Stock Number. Indicates the National stock number assigned to the item and which will be used for requisitioning.

c. Part Number. Indicates the primary number used by the manufacturer, which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

d. Description. Indicates the Federal item name and, if required, a minimum description to identify the item. *e. Location.* The physical location of each item listed is given in this column. The lists are designed to inventory all items in one area of the major item before moving on to an adjacent area.

f. Usable on Code. "USABLE ON" codes are included to help you identify which component items are used on the different models. Identification of the codes used in these lists are:

V1 - Outstations

V2 - Central Station

g. Quantity Required (Qty Req'd). This column lists the quantity of each item required for a complete major item.

h. Quantity. This column is left blank for use during an inventory. Under the Rcv'd column, list the quantity you actually receive on your major item. The Date columns are for your use when you inventory the major item at a later date, such as for shipment to another site.

Section II. INTEGRAL COMPONENTS OF END ITEM

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8) QUANTITY			
(a) FIG NO.	(b) ITEM NO.	NATIONAL STOCK NUMBER	PART NO.	DESCRIPTION	LOCA- TION	USABLE ON CODE	QTY REQ	RCV'D	DATE	DATE	DATE
E-1	1	5805-00-945-8549	1703-1-3003	TELEPHONE SET TA-676/G (STANDARD)		V1	V				
E-1	1	5805-00-945-8549	1703-1-3003	TELEPHONE SET TA-676/G (SPECIAL)		V2	4				
E-1	1	5805-00-945-8549	1703-1-3003	TELEPHONE SET TA-676/G (SUPERVISOR)		V2	1				
E-1	2	5820-00-538-7555	R390AURR	RADIO RECEIVER R-390A/URR		V2	5				
E-1	3		1703-1-3000	COMMUNICATION CONTROL CONSOLE OA-7735/G		V2	2				
E-1	4		1703-1-3021	INTERCOMMUNICATION SWITCHBOARD SB-2601/G		V2	1				
E-1	5	5985-00-020-2738	CU872AU	ANTENNA COUPLER CU-872A/U		V2	5				
E-1	6			ANTGC14 TELETYPEWRITER SET AN/TGC-14		V2	2				
E-1	7		1703-1-3001	RADIO INTERCEPT CONTROL SWITCHBOARD SB-2602/G		V2	1				
E-1	8	5935-00-947-3255	1703-1-3004	CONNECTOR ASSEMBLY MX-7141/M		V2	1				
E-1	9	5935-00-947-3258	1703-1-3005	CONNECTOR ASSEMBLY MX-7142/G		V1	V				
E-1	10	5935-00-947-3259	1703-1-3006	CONNECTOR ASSEMBLY MX-7143/G		V1	V				
E-1	11		1703-1-3002	MONITOR CONTROL PANEL SB-2600/G		V1	V				
E-31	1-6		1703-1-2135	CABLE ASSEMBLIES (GR1-GR6)			1				
E-32	1-5		1703-1-2136	CABLE ASSEMBLIES (GR1-GR5)			1				
E-33	4		1703-1-2137	CABLE ASSEMBLY			1				
E-34	4		1703-1-2138	CABLE ASSEMBLY			1				
E-35	5		1703-1-2139	CABLE ASSEMBLY			1				

(1) ILLUSTRATION		(2) NATIONAL STOCK NUMBER	(3) PART NO.	(4) DESCRIPTION	(5) LOCA- TION	(6) USABLE ON CODE	(7) QTY REQ	(8) QUANTITY			
(a) FIG NO.	(b) ITEM NO.							RCV'D	DATE	DATE	DATE
E-36	1-7		1703-1-2140 (GR1-GR7)	CABLE ASSEMBLIES			1				
E-37	4		1703-1-2141	CABLE ASSEMBLY			1				
E-38	5		1703-1-2142	CABLE ASSEMBLY			4				
E-39	5		1703-1-2143	CABLE ASSEMBLY			8				
E-40	7-8		1703-1-3007	CABLE ASSEMBLIES (GR1-GR2)			1				
E-41	7-8		1703-1-3009	CABLE ASSEMBLIES (GR1-GR2)			1				
E-42	2-13		1703-1-3128	CABLE ASSEMBLIES (GR1-GR12)			1				
E-43	1-14,		1703-1-3129 16-45	CABLE ASSEMBLIES (GR1-GR14, GR16- GR45)			1				
E-43	15		1703-1-3129	CABLE ASSEMBLY (GR15)			2				
E-44	1-36		1703-1-3130	CABLE ASSEMBLIES (GR1-GR36)			1				
E-45	1-2		1703-1-3131	CABLE ASSEMBLIES (GR1-GR2)			1				
E-46	1-6		1703-1-3132	CABLE ASSEMBLIES (GRI-GR6)			1				

Section III. BASIC ISSUE ITEMS

(1) ILLUSTRATION		(2) NATIONAL STOCK NUMBER	(3) PART NO.	(4) DESCRIPTION	(5) LOCA- TION	(6) USABLE ON CODE	(7) QTY REQ	(8) QUANTITY			
(a) FIG NO.	(b) ITEM NO.							RCV'D	DATE	DATE	DATE
				(Not Applicable)							

APPENDIX C

ADDITIONAL AUTHORIZATION LIST

(Not Applicable)

C-1/(C-2 blank)

APPENDIX D

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

D-1 GENERAL.

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.

b. The Maintenance Allocation Chart (MAC) in Section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.

c. Section III lists the special tools and test equipment required for each maintenance function as referenced from Section II.

d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

D-2 MAINTENANCE FUNCTIONS.

a. *Inspect.* To determine the serviceability of an item by comparing its physical, mechanical and/or electrical characteristics with established standards through examination.

b. *Test.* To verify serviceability and detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. *Service.* Operations required periodically to keep an item in proper operating condition; i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

d. *Install.* The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

e. *Replace.* The act of substituting a serviceable like type part, subassembly, or module for an unserviceable counterpart.

f. *Repair.* The application of maintenance services or other maintenance actions to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

g. *Overhaul.* That maintenance effort (services/actions) necessary to restore an item to a completely serviceable/ operational condition as prescribed by maintenance standards; i.e., Depot Maintenance Work Requirement in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

D-3 EXPLANATION OF COLUMNS IN THE MAC, SECTION II.

a. *Column 1, Group Number.* Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. *Column 2, Component/Assembly.* Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. *Column 3, Maintenance Function.* Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see para. D-2.)

d. *Column 4, Maintenance Level.* Column 4 specifies, by the listing of a "work time" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform the maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate "work time" figures will be shown for each level. The number of man-hours specified by the "work time" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

- C Operator or crew
- O Organizational maintenance
- F Direct support maintenance
- H General support maintenance
- D Depot maintenance

e. *Column 5, Tools and Equipment.* Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, Test, Measurement, and Diagnostic Equipment (TMDE), and support equipment required to perform the designated function.

f. *Column 6, Remarks.* This column will, when applicable, contain a letter code, in alphabetical order, which will be keyed to the remarks contained in Section IV.

D-4 EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.

a. *Column 1, Reference Code.* The tool and TMDE reference code correlates with a code used in the MAC, Section II, column 5.

b. *Column 2, Maintenance Level.* The lowest level of maintenance authorized to use the tool or test equipment.

c. *Column 3, Nomenclature.* Name or identification of the tool or test equipment.

d. *Column 4, National/NATO Stock Number.* The National Stock Number (NSN) of the tool or TMDE.

e. *Column 5, Tool Part Number.* The manufacturer's part number.

D-5 EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

a. *Reference Code.* The code recorded in Section II, column 6.

b. *Remarks.* This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

Section II MAINTENANCE ALLOCATION CHART

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	I		D		
					F	H	D		
00	COMMUNICATIONS CENTRAL AN/MSQ-71	Inspect Inspect Test Service Install Replace Repair Repair Overhaul	1.0	1.0	2.0 1.5 20.0 32.0		80.0	1, 2, 3	A
01	TELEPHONE SET TA-76/G V1-STANDARD V2-SPECIAL V3-SUPERVISOR	Inspect Inspect Test Replace Repair Repair	0.5	0.5		0.5 0.5 2.0		1,2, 3	
0101	TELEPHONE RECEIVER 1703-1-2157 (MODIFIED)	Inspect Test Replace Repair				0.5 0.5 0.5 1.0		1	
0102	CASE ASSEMBLY 1703-1-3088	Inspect Test Replace Repair				0.5 0.5 0.5 1.0		1	
010201	CORD ASSEMBLY 1703-1-2026	Inspect Test Replace Repair				0.5 0.5 0.5 0.5			
0103	COVER ASSEMBLY 1703-1-2080	Inspect Test Replace Repair				0.5 0.5 0.5 1.0		1	
010301	TERMINAL BOARD ASSEMBLY 1703-1-3025 V4-GR1, V5-GR2, V6-GR3	Inspect Test Replace Repair				0.5 0.5	0.5 3.0	2, 3	
010302	POWER SUPPLY ASSEMBLY NO. 1 1703-1-2075	Inspect Test Replace Repair				0.5	0.5	1	
010303	POWER SUPPLY ASSEMBLY NO. 2 1703-1-2072	Inspect Test Replace Repair				0.5 0.5 0.5 1.0		1	

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	F	H	D		
010304	COVER, SWITCH, AND TERMINAL BOARD SUB- ASSEMBLY 1703-1-2074	Inspect Test Replace Repair			0.5 0.5 0.5 1.0			1	
02	RADIO RECEIVER R-390A/URR	Inspect Inspect Test Replace Repair Repair	0.5	0.5	0.5 1.0 0.5 3.0				D
03	COMMUNICATIONS CONTROL CONSOLE OA-7735/G	Inspect Inspect Test Replace Repair Repair	0.5	0.5	1.0 1.0 0.5 3.0			1, 2, 3	
0301	PANEL ASSEMBLY 1703-1-3094	Inspect Test Replace Repair		0.5 0.5 0.5 0.5				1	
0302	PLATE ASSEMBLY, RH 1703-1-2122	Inspect Test Replace Repair				0.5 0.5 0.5 1.0		1	
0303	PLATE ASSEMBLY, LH 1703-1-2119	Inspect Test Replace Repair				0.5 0.5 0.5 1.0		1	
04	INTERCOMMUNICATON SWITCHBOARD SB-2601/G	Inspect Inspect Test Replace Repair Repair	0.5	0.5	0.5 1.0 0.5 3.0			1, 2, 3	
05	ANTENNA COUPLER CU-872A/U	Inspect Inspect Test Replace Repair Repair	0.5	0.5	0.5 0.5 0.5 2.0				B

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	F	H	D		
06	TELETYPEWRITER SET AN/TGC-14	Inspect Inspect Test Replace Repair Repair	0.5	0.5	0.5 1.0				C
07	RADIO INTERCEPT CONTROL SWITCH- BOARD SB-2602/G	Inspect Inspect Test Replace Repair Repair	0.5	0.5	1.0 1.0			1, 2, 3	
0701	PANEL ASSEMBLY 1703-1-3107	Inspect Test Replace Repair			0.5 0.5 0.5 1.0			1	
0702	PLATE ASSEMBLY 1703-1-3121	Inspect Test Replace Repair			0.5 0.5 0.5 1.0			1	
0703	BRACKET ASSEMBLY 1703-1-2081	Inspect Test Replace Repair			0.5 0.5 0.5 1.0				
0704	POWER SUPPLY 1703-1-3139	Inspect Test Replace Repair			0.5 0.5 0.5 1.0				
0705	BLINKER ASSEMBLY BOARD NO.1 1703-1-3019GR1	Inspect Test Replace Repair			0.5 0.5 0.5			3.0	
0706	BLINKER ASSEMBLY BOARD NO.2 1703-1-3019GR2 Repair	Inspect Test Replace				0.5 0.5 0.5		3.0	
08	CONNECTOR ASSEMBLY MX 7141/M	Inspect Inspect Test Replace Repair Repair	0.5	0.5	0.5 0.5				
				0.5	1.0				

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	F	H	D		
			09	CONNECTOR ASSEMBLY MX 7142/G	Inspect Inspect Test Replace Repair Repair	0.5	0.5		
10	CONNECTOR ASSEMBLY MX 7143/G	Inspect Inspect Test Replace Repair Repair	0.5	0.5	0.5 0.5			1	
11	MONITOR CONTROL PANEL SB-2600/G	Inspect Inspect Test Replace Repair Repair	0.5	0.5	1.0 1.0			1,2,3	
1101	BRACKET ASSEMBLY 1703-1-2101	Inspect Test Replace Repair			0.5 0.5 0.5			1	
1102	BRACKET ASSEMBLY 1703-1-3091	Inspect Test Replace Repair			0.5 0.5 0.5				
1103	BRACKET ASSEMBLY 1703-1-3086	Inspect Test Replace Repair			0.5 0.5 0.5				
1104	BRACKET ASSEMBLY 1703-1-3087	Inspect Test Replace Repair			0.5 0.5 0.5			1	
1105	CIRCUIT CARD ASSEMBLY 1703-1-3025	Inspect Test Replace Repair			0.5 0.5	0.5		1,2,3	
12	CABLE ASSEMBLIES 1703-1-2135 (GR14GR6)	Inspect Test Replace Repair		0.5	0.5 0.5		3.0	1	

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	F	H	D		
13	CABLE ASSEMBLIES 1703-1-2136 (GR1-GR5)	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
14	CABLE ASSEMBLY 1703-1-2137	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
15	CABLE ASSEMBLY 1703-1-2138	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
16	CABLE ASSEMBLY 1703-1-2139	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
17	CABLE ASSEMBLIES 1703-1-2140 (GR1-GR7)	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
18	CABLE ASSEMBLY 1703-1-2141	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
19	CABLE ASSEMBLY 1703-1-2142	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
20	CABLE ASSEMBLY 1703-1-2143	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
21	CABLE ASSEMBLIES 1703-1-3007 (GR1 and GR2)	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
22	CABLE ASSEMBLIES 1703-1-3009 (GR1 and GR2)	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
23	CABLE ASSEMBLIES 1703-1-3128 (GR1-GR12)	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	F	H	D		
24	CABLE ASSEMBLIES 1703-1-3129 (GR1-GR45)	Inspect Test Replace Repair	0.5		0.5 0.5 1.0			1	
25	CABLE ASSEMBLIES 1702-1-3130 (GR1-GR36)	Inspect Test Replace Repair	0.5	0.5 0.5 1.0				1	
26	CABLE ASSEMBLIES 1703-1-3131 (GR1 and GR2)	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	
27	CABLE ASSEMBLIES 1703-1-3132 (GR1-GR6)	Inspect Test Replace Repair		0.5	0.5 0.5 1.0			1	

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

(1) REFERENC E NO.	(2) MAINT LEVEL	(3) NOMENCLATURE	(4) NATIONAL/NATO STOCK NUMBER	(5) TOOLS NUMBER
1	O	MULTIMETER (AN/USM-223)	6625-00-999-7465	USM223 2
2	F	AUDIO SIGNAL GENERATOR, (AN/USM-205)	6625-00-788-9672	USM205 H-P
3	F	OSCILLOSCOPE, TEKTRONIX (321A)		321A

Section IV. REMARKS

Reference code	Remarks
A	The components in the AN/MSQ-71 baseline configuration are covered in Groups 01 - 27. Other components, such as the central station housing and racks, central station and outstation accessories, and antennas, which vary depending on overall configurations as directed by station specifications, are depicted in the typical configuration shown in Chapter 1, but not covered otherwise in this manual. Refer to particular station specifications for coverage of these items.
B	Refer to NAVSHIPS 94490 for detailed coverage of this item.
C	Refer to TM 11-5815-206-12 for coverage of this item.
D	Refer to TM 11-5820-358-35 for coverage of this item.

APPENDIX E

REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

E-1 SCOPE. This appendix lists spares and repair parts; special tools; special Test, Measurement, and Diagnostic Equipment (TMDE), and other special support equipment required for performance of organizational, direct support, and general support maintenance of Communications Central AN/MSQ-71. It authorizes the requisitioning and issue of spare and repair parts as indicated by the source and maintenance codes.

E-2 GENERAL. This Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in National Stock Number (NSN) sequence.

b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized for the performance of maintenance.

c. Section IV. National Stock Number and Part Number Index. A list, in National Item Identification Number (NIIN) sequence, of all National Stock Numbers (NSN) appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross referenced to each illustration figure and item number appearance. This index is followed by a cross-reference list of reference designators to figure and item numbers.

E-3 EXPLANATION OF COLUMNS.

a. Illustration. This column is divided as follows:

(1) *Figure Number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item Number.* The number used to identify item called out in the illustration.

b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) *Source Code.* Source codes indicate the manner of acquiring support items for maintenance repair, or overhaul of end items. Source codes are entered in the first and second positions of the uniform SMR code format as follows:

<u>Code</u>	<u>Definition</u>
PA -	Item procured and stocked for anticipated or known usage.
XB -	Item is not procured or stocked. If not available through salvage, requisition.
XD -	A support item that is not stocked. When required, item will be procured through normal support channels.

NOTE: Cannibalization or salvage may be used as a source of supply for any items coded above except those coded XA and aircraft support items as restricted by AR 700-42.

(2) *Maintenance Code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the uniform SMR code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

<u>Code</u>	<u>Application/Explanation</u>
F -	Support item is removed, replaced, used at the direct support level.
D -	Support items that are removed, replaced, used at depot, mobile depot, or specialized repair activity only.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair; i.e., all authorized maintenance functions. This position will contain one of the following maintenance codes:

<u>Code</u>	<u>Application/Explanation</u>
F -	The lowest maintenance level capable of complete repair of the support item is the direct support level.

<u>Code</u>	<u>Application/Explanation</u>
D	- The lowest maintenance level capable of complete repair of the support item is the depot level.
Z	- Nonreparable. No repair is authorized.

(3) *Recoverability Code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the uniform SMR code format as follows:

<u>Recoverability Code</u>	<u>Definition</u>
Z	- Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
F	- Repairable item. When uneconomically repairable, condemn and dispose at the direct support level.
D	- Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.

c. National Stock Number (NSN). Indicates the NSN assigned to the item and which will be used for requisitioning.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE: When a stock numbered item is requisitioned, the item received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 70841/42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc.). When the U/M differs from the unit of issue, the lowest unit of issue that will satisfy the required U/M will be requisitioned.

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable (e.g., shims, spacers, etc.).

E-4 SPECIAL INFORMATION.

a. Usable on codes are shown in the description column. Uncoded items are applicable to all models. Identification of the usable codes used in this publication are;

<u>Code</u>	<u>Used On</u>
V1	Standard
V2	Special
V3	Supervisor
V4	GR 11
V5	GR 2
V6	GR 3

E-5 ABBREVIATIONS. Not applicable.

E-6 How to Locate Repair Parts

	Paragraph	Page
Section V	Troubleshooting	5-7
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Group 00 Telephone Set AN/TTR-1A

Section II. REPAIR PARTS LIST

(1) ILLUSTRATION FIG NO	(2) ITEM NO	(3) SMR CODE	(4) NATIONAL STOCK NUMBER	(5) PART NUMBER	(6) FSCM	(7) DESCRIPTION	(8) UAN	(9) QTY INC IN UNIT
						GROUP 00: TELEPHONE MONITORING SET AN/TTR-1A		
E-1	1	PAOFD	5410-01-045-2255	S-457AG	15942	SHELTER, ELECTRICAL EQUIPMENT	EA	1
E-1	2	XDOFF		96-1-3233	15942	PANEL	EA	2
E-1	3	PAOFD	5805-00-481-3249	ID1682GTA19	15942	INDICATOR, DIGITAL DISPLAY ID-1682/GTA-19	EA	2
E-1	4	PAOFD	5895-00-471-8752	TA836GTA19	15942	MONITOR, TA-836/GT	EA	2
E-1	6	PAOFD	5820-00-443-1173	SB3216GTA13	80058	PANEL, MO	EA	2
E-1	7	PAOFD	5835-00-892-3848	ANPNH4		Recorder-Reproducer AN/PNH-4	EA	4
E-1	8	PAOZZ	5830-00-537-5031	MT158ZGP		SHELF, MOUNTING, MT-4422/G	EA	1
E-1	9	PAOZZ	5975-00-165-3411	MT4422G	80058	SHELF, MOUNTING, MT-4422/G	EA	1
E-1	10	PAOZZ	7430-00-254-4321	111NCARRIAGE	88192	TYPEWRITER, 11-IN-CARRIAGE	EA	1
E-1	10	PAOFF	7125-00-139-5023	CY7181G	80058	CABINET, STORAGE, CY-7181/G	EA	1

Section III
Section IV
APPENDIX F
Section I
Section II

- a. WHEN NATIONAL STOCK NUMBER OR PART NUMBER IS UNKNOWN
- Using the table of contents, determine the functional group or subgroup within which the item belongs. This is necessary since illustrations are prepared for functional groups or subgroups, and listings are divided into the same groups.
 - Find the illustration covering the functional group or subgroup to which the item belongs.
 - Identify the item on the illustration and note the illustration figure and item number of the item.
 - Using the Repair Parts Listing, find the figure and item number notes on the illustration.

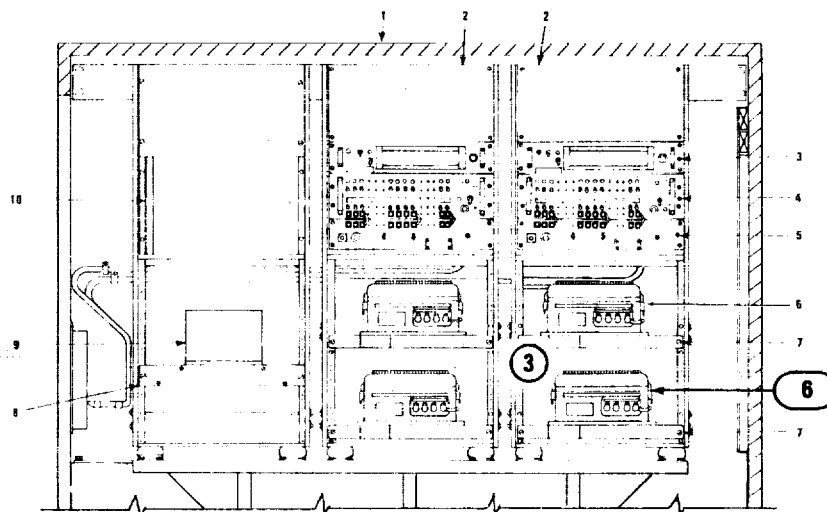


Figure E-1.

E-6 How to Locate Repair Parts (continued)

SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
ANPNH4	8005/	E-1	6	SCB681045	80063	E-6	3
8134/	8134/			S457AG	15942	E-1	1
CY7	80058	E-1	10	TA836GTA19	80058/	E-1	4
DMS	17419	E-6	5		15942		
DMS	17419	E-7	1	U187AG	80058	E-3	1
F03L J LACK	24011	E-3	3	00188-1-3058	15942	E-2	4
ID 1682GTA19	80058	E-1	3	0421-1-4225	15942	E-1	7
MS3057-3B	96906	E-6	4	11INCARRIAGE	88192	E-1	9
MS3057-4A	96906	E-4	2	5314	74545	E-6	1
MS3057-4A	96906	E-5	2	8412	70903	E-4	3
MS3106A10SL3SC	96906	E-4	1	8412	70903	E-5	3
MS3106A10SL3SC	96906	E-5	1	8723	70903	E-7	2
MS3106A14S2S	96906	E-7	3	96-1-2188	15942	E-2	6
MS3116F1832SW	96906	E-3	5	96-1-2189	15942	E-2	5
MS3116F1832SW	96906	E-3	6	96-1-2190	15942	E-2	3
MT4412G	80058	E-1	8	96-1-2191	15942	E-2	2
PJ068	81349	E-4	4	96-1-3233	15942	E-1	2
PJ068	81349	E-7	4	96-1-4225-1	15942	E-2	1
PT06A-8-4SW	77820	E-8	1	96-1-4225-1	15942	E-3	2
SB3216GTA13	80058	E-1	5	96-1-4225-2	15942	E-2	1
SCB681045	80063	E-3	4				

NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER	NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER
9905-00-001-9236	E-3	4	5935-00-539-2650	E-5	1
9905-00-001-9236	E-6	3	6145-00-635-3033	E-4	3
5935-00-192-4753	E-4	4	6145-00-635-3033	E-5	3
5935-00-192-4753	E-7	4	5935-00-682-0381	E-3	1
7125-00-139-5023	E-1	10	6145-00-682-9937	E-6	2
5811-00-223-8015	E-1	8	5935-00-717-2570	E-3	5
5935-00-240-0173	E-4	2	5935-00-717-2570	E-6	4
5935-00-240-0173	E-5	2	5935-00-717-2570	E-6	5
7430-00-254-4321	E-1	9	5970-00-167-167	E-3	3
5935-00-262-7858	E-7	3			
5935-00-400-1803	E-6	1	5835-00-892-3848	E-1	6
5820-00-443-1173	E-1	5			
5935-00-462-2801	E-8	1	6145-00-957-8519	E-7	2
5895-00-471-8752	E-1	4	6145-00-957-8519	E-8	2
5805-00-481-3249	E-1	3	5410-01-028-0696	E-1	1
5935-00-539-2650	E-4	1			

b. WHEN NATIONAL STOCK NUMBER OR PART NUMBER IS KNOWN

- ① Using the Index of National Stock Numbers and Part Numbers, find the pertinent NSN or part number. This index is in NIIN sequence, followed by a list of part numbers in alphanumeric sequence, cross-referenced to the illustration figure number and item number.
- ② After finding the figure and item number, locate the figure and item number in the repair parts list.

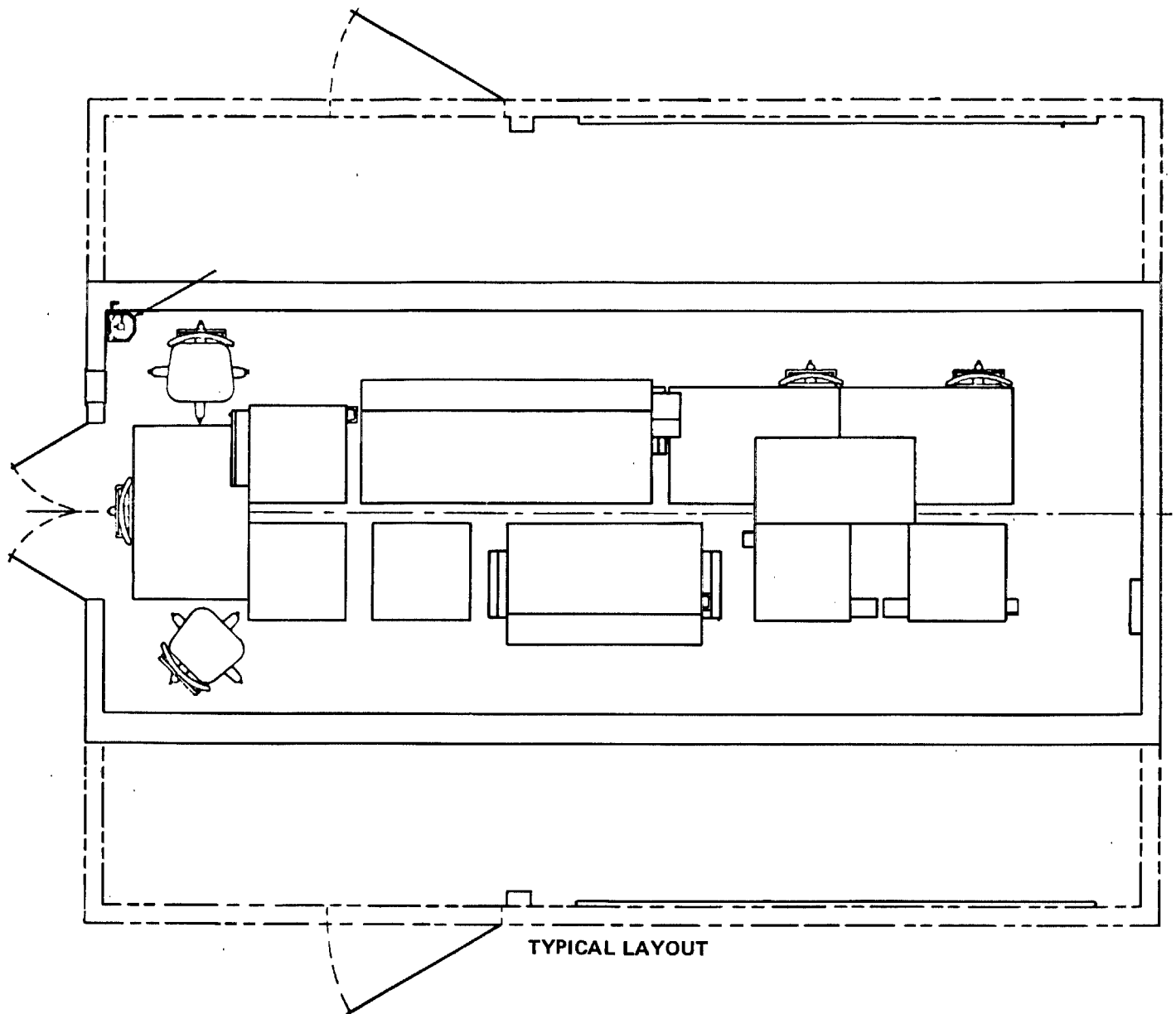
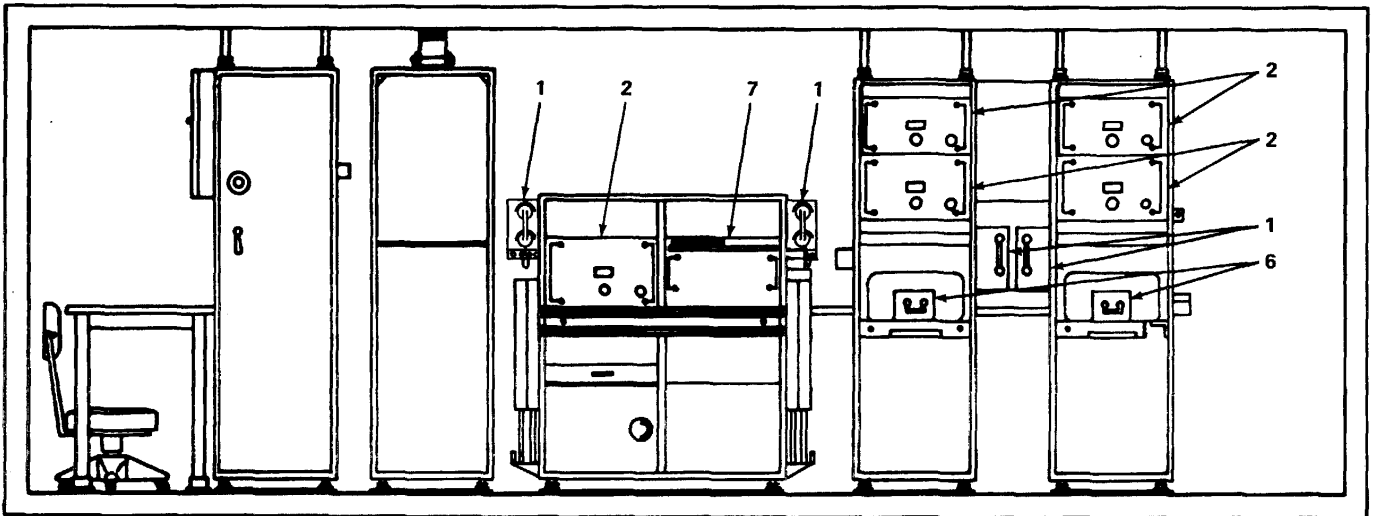
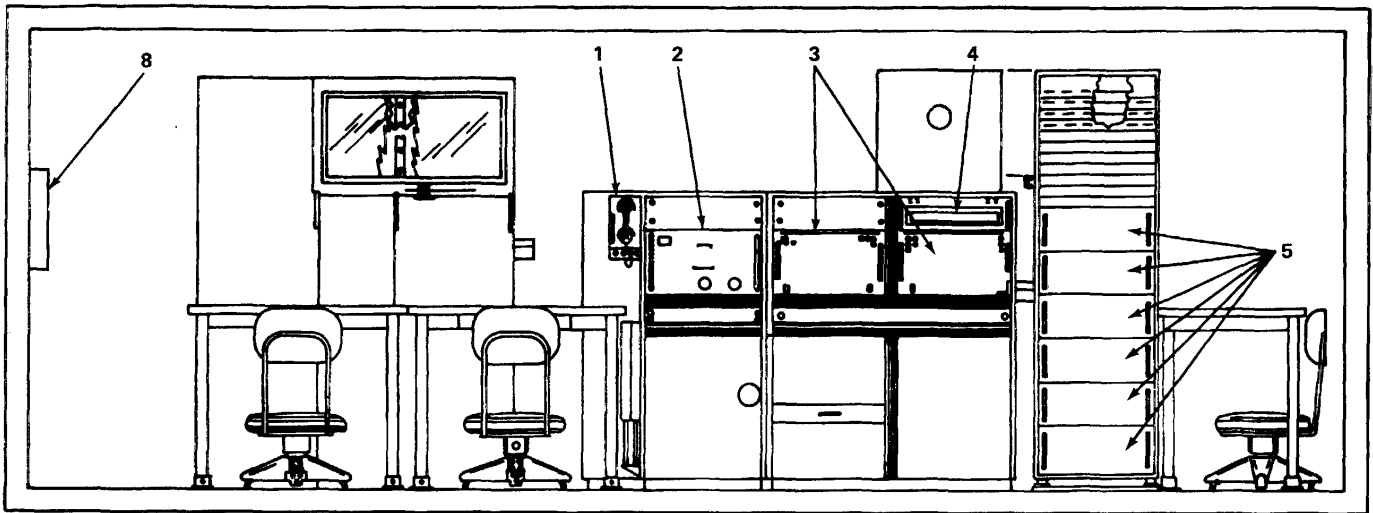
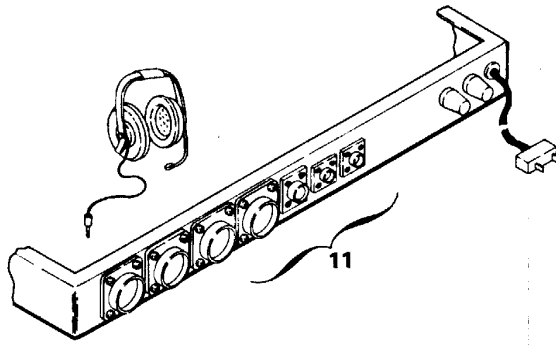
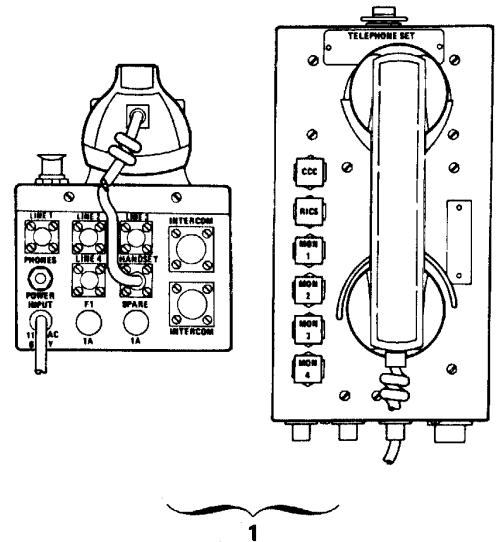
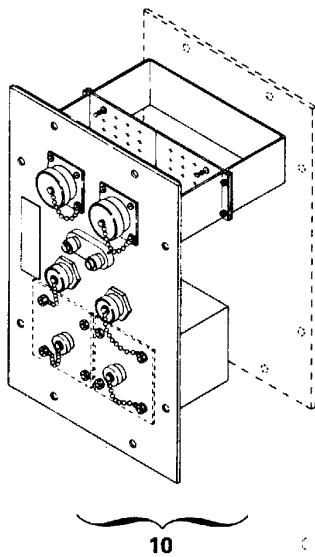
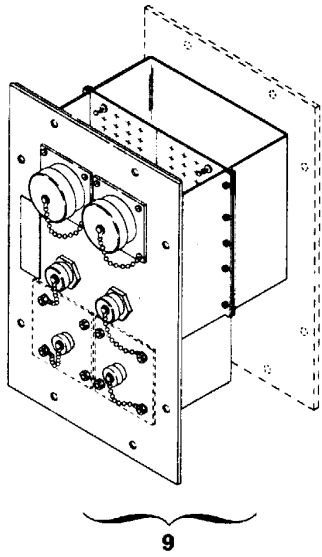


Figure E-1. Communications Central AN/MSQ-71 (Sheet 1 of 3)



TYPICAL LAYOUT

Figure E-1. Communications Central AN/MSQ-71 (Sheet 2 of 3)



OUTSTATION COMPONENTS

Figure E-1. Communications Central AN/MSQ-71 (Sheet 3 of 3)

Section II. REPAIR PARTS LIST

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 00 COMMUNICATIONS CENTRAL AN/MSQ-71		
E-1	1	PAFDD	5805-0-945-8549	1703-1-3003	15942	TELEPHONE SET TA-676/G (STANDARD) V1	EA	V
E-1	1	PAFDD	5805-00-945-8549	1703-1-3003	15942	TELEPHONE SET TA-676/G (SPECIAL) V2	EA	4
E-1	1	PAFDD	5805945-8549	1703-1-3003	15942	TELEPHONE SET TA-676/G (SUPERVISOR) V3	EA	1
E-1	2	PAFDD	58200538-7555	R390AURR	80058	RADIO RECEIVER R-390A/URR	EA	6
E-1	3	XBFFF		1703-1-3000	15942	COMMUNICATIONS CONTROL CONSOLE OA-7735/G	EA	2
E-1	4	XBFFF		1703-1-3021	15942	INTERCOMMUNICATION SWITCHBOARD SB-2601/G	EA	1
E-1	5	PAFFF	5985-00-020-2738	CU872AU	80058	ANTENNA COUPLER CU-872A/U	EA	5
E-1	6	XDFDD		ANTGC14	80058	TELETYPEWRITER SET AN/TGC-14	EA	2
E-1	7	XBFDD		1703-1-3001	15942	RADIO INTERCEPT CONTROL SWITCHBOARD SB-2602/G	EA	1
E-1	8	PAFFF	5935-00-947-3255	1703-1-3004	15942	CONNECTOR ASSEMBLY MX 7141/M	EA	1
E-1	9	PAFFF	5935-00947-3258	1703-1-3005	15942	CONNECTOR ASSEMBLY MX 7142/G	EA	V
E-1	10	PAFFF	5935-00-947-3259	1703-1-3006	15942	CONNECTOR ASSEMBLY MX 7143/G	EA	V
E-1	11	PAFFF		1703-1-3002	15942	MONITOR CONTROL PANEL SB-2600/G	EA	V

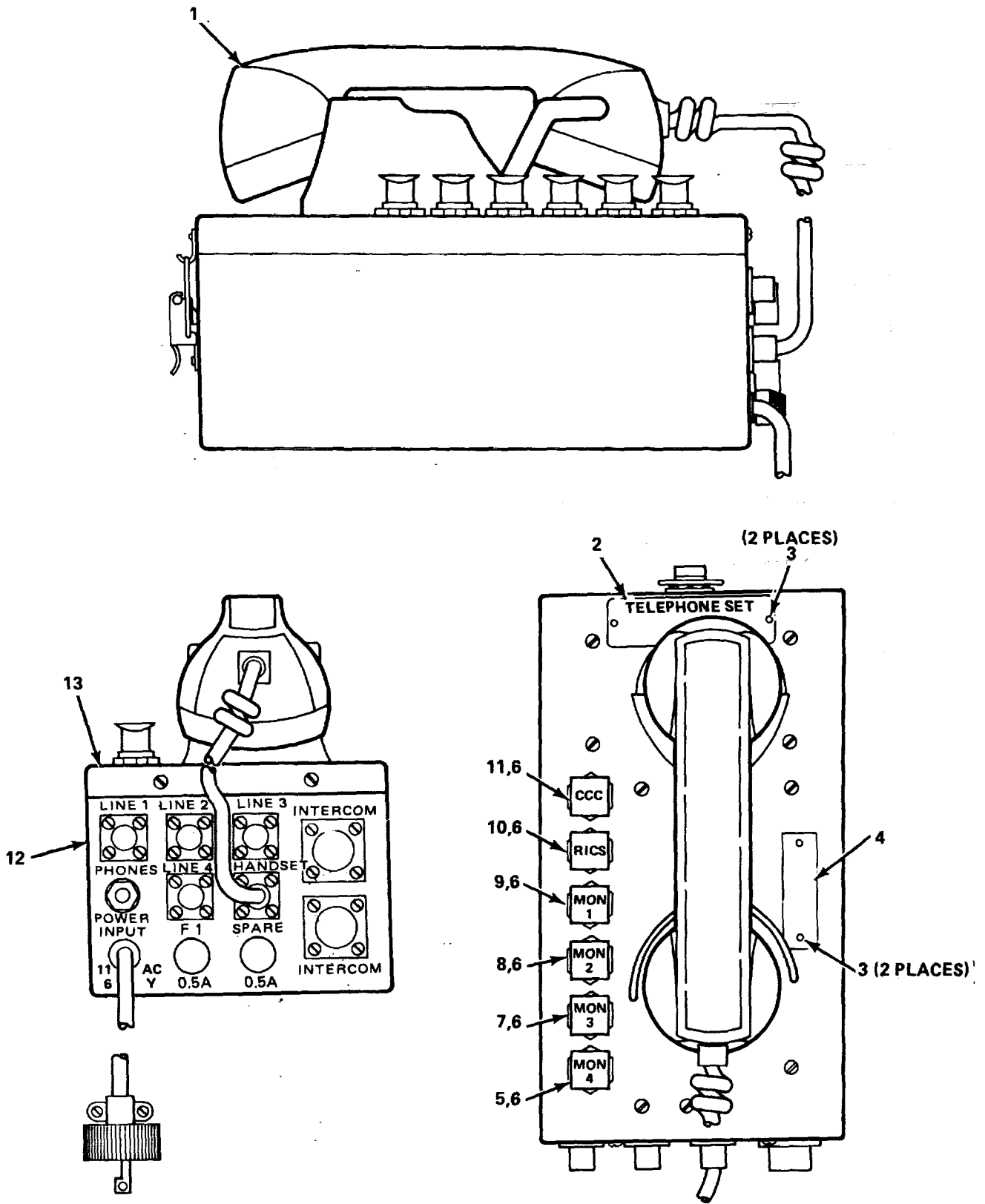


Figure E-2. Telephone Set TA-6 76/G

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)	
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT	
E-2	1	PAFFF	5965-00-432-2608	1703-1-2157	15942	GROUP: 01 TELEPHONE SET TA-676/G (V1-STANDARD, V2- SPECIAL, V3-SUPERVISOR)			
E-2	1	PAFFF		1703-1-2157	15942	TELEPHONE RECEIVER (MODIFIED)	EA	1	
E-2	2	XBFZZ		1703-1-30834	15942	IDENTIFICATION PLATE	EA	1	
E-2	3	XDFZZ		MS21318-2	96906	SCREW, DRIVE FF-S-107	EA	4	
E-2	4	XBFZZ		1703-1-1067-	15942	IDENTIFICATION STRIP GR2	EA	1	
E-2	5	PAFZZ	6210-00-257-1212	1703-1-2004-	15942	BUTTON (MODIFIED) 20	EA	1	
E-2	6	XBFZZ		1703-1-3003-1	15942	LAMP NO. PB-11048	V1, V3	EA	6
E-2	6	XBFZZ		1703-1-3003-1	15942	LAMP NO. PB-11048	V2	EA	5
E-2	7	PAFZZ	6210-0-257-1204	1703-1-2004- 19	15942	BUTTON (MODIFIED)	EA	1	
E-2	8	PAFZZ	6210-00-257-1201	1703-1-2004-	15942	BUTTON (MODIFIED) 18	EA		
E-2	9	PAFZZ	6210-00-257-1198	1703-1-2004-	15942	BUTTON (MODIFIED) 17	EA	1	
E-2	10	PAFZZ	62100-257-1195	1703-1-2004-	15942	BUTTON (MODIFIED) 16	EA	1	
E-2	11	PAFZZ	6210-00-257-1184	1703-1-2004-	15942	BUTTON (MODIFIED) 15	V1,V3	EA	1
E-2	11	XBFZZ		1703-1-1082	15942	CAP, SWITCH	V2	EA	1
E-2	12	XBFFF		1703-1-3088	15942	CASE ASSEMBLY	EA	1	
E-2	13	XBFDD		1703-1-2080	15942	COVER ASSEMBLY	EA	1	

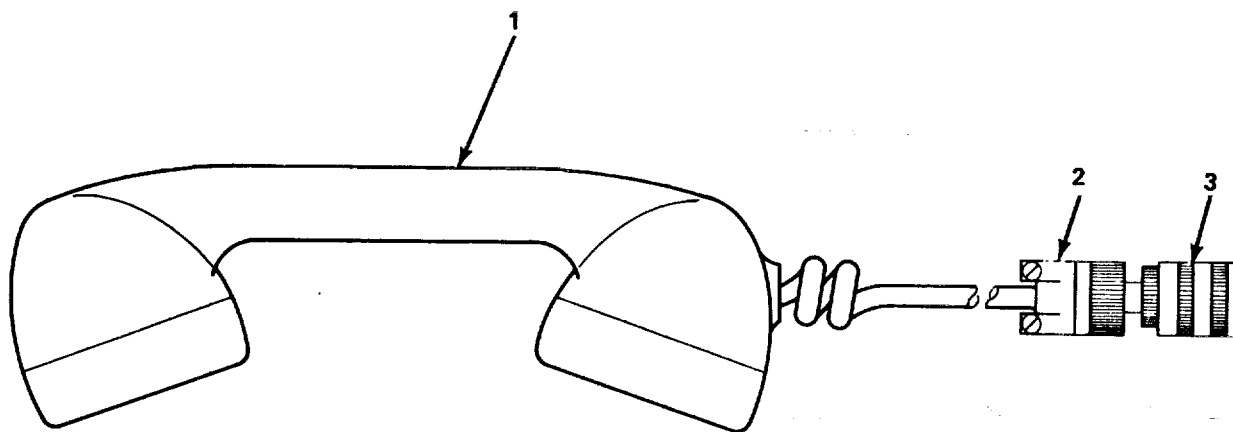


Figure E-3. Telephone Receiver (Modified)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-3	1	XBFZZ		1703-1-2157-1	15942	GROUP: 0101 TELEPHONE RECEIVER (MODIFIED) TELEPHONE HANDSET NO.B8249X	EA	1
E-3	2	PAFZZ	5935-00-806-5600	MS3057-3B	96906	CLAMP	EA	1
E-3	3	XBFZZ		1703-1-2157-2	15942	STRAIGHT PLUG NO. PT06A-8-4P	EA	1

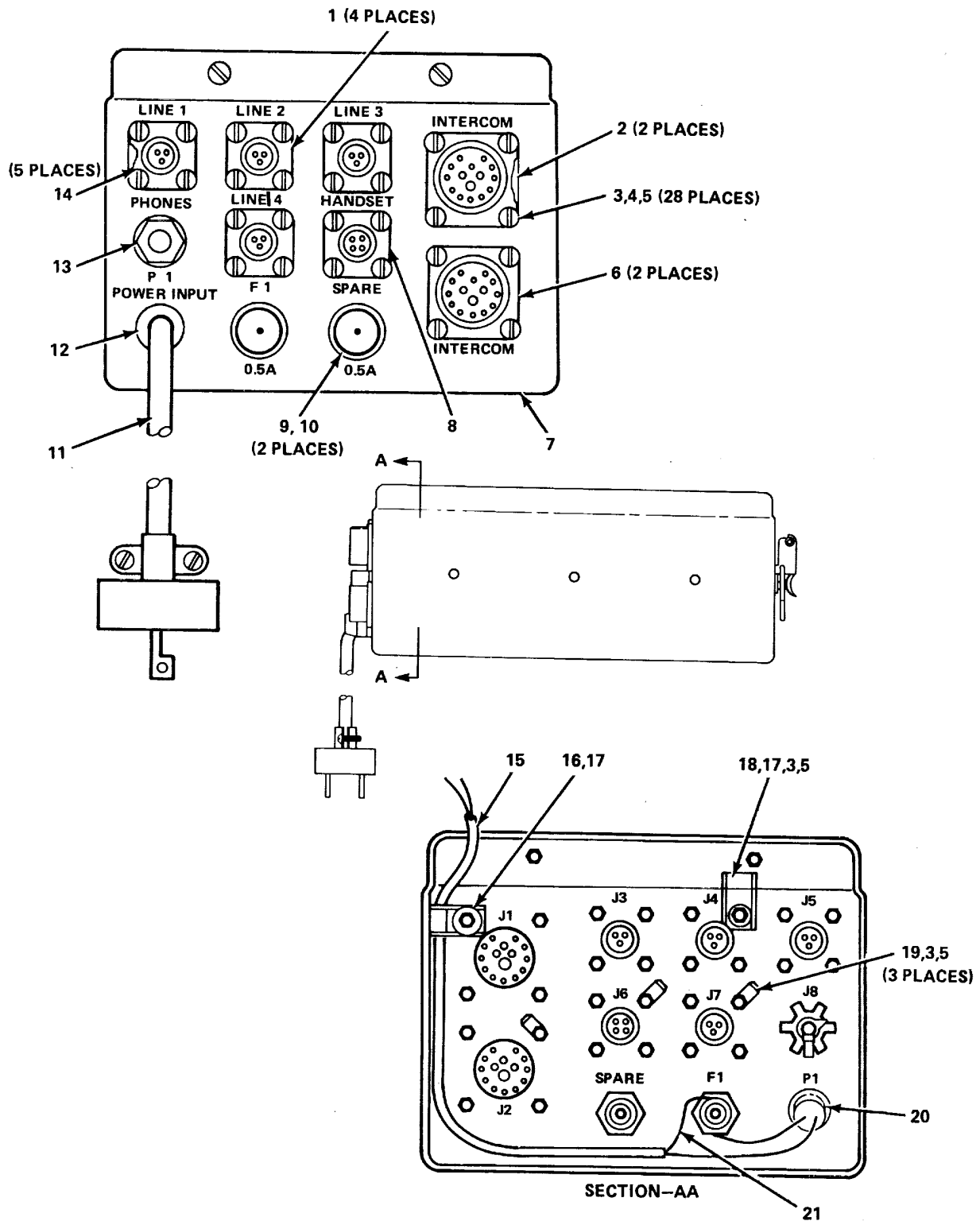


Figure E-4. Case Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-4	1	PAFZZ	5935-00-044-4145	MS3112E8-3S	96906	GROUP: 0102 CASE ASSEMBLY RECEPTACLE	EA	4
E-4	2	XDFZZ		10-1019494	77820	GASKET	EA	2
E-4	3	PAFZZ	5305-00-558-4889	MS35223-14	96906	SCREW	EA	32
E-4	4	PAFZZ	5310-00-193-7577	MS35333-36	96906	WASHER, INTERNAL TOOTH	EA	28
E-4	5	PAFZZ	5310-01-032-1119	MS3564942	96906	NUT, HEXAGON	EA	32
E-4	6	PAFZZ	5935-00-945-7306	PTO 2E-14-15S	77820	RECEPTACLE	EA	2
E-4	7	XBFFZ		1703-1-3071	15942	MARKING, CASE	EA	1
E-4	8	PAFZZ	5935-00-825-8860	PTO 2E-84S	77820	RECEPTACLE	EA	1
E-4	9	XDFZZ		342022	75915	FUSE HOLDER	EA	2
E-4	10	XDFZZ		FO 2A250V1-2A	75915	FUSE	EA	2
E-4	11	XBFFF		1703-1-2026	15942	CORD ASSEMBLY	EA	1
E-4	12	XDFZZ		Z-2239	96385	GROMMET	EA	1
E-4	13	PAFZZ	5935-00-192-4894	11	20950	PHONE JACK	EA	1
E-4	14	PAFZZ	5330-00-686-0978	10-1019498	77820	GASKET	EA	5
E-4	15	XDFZZ		PVC-105/2	92194	INSULATION	FT	V
E-4	16	PAFZZ	5340-00-002-8737	773	83330	CABLE CLIP	EA	1
E-4	17	PAFZZ	5310-0-605-8837	MS157954	96906	WASHER	EA	2
E-4	18	PAFZZ	5340-00-964-2555	775	83330	CABLE CLIP	EA	1
E-4	19	PAFZZ	5940-00-935-6453	241704-00	78189	TERMINAL	EA	3
E-4	20	PAFZZ	5975-00-144-0-471	6	52263	STRAIN RELIEF	EA	1
E-4	21	PAFZZ	6145-00-900-0259	MW-C16(26) U9	81349	WIRE, HOOKUP	FT	V

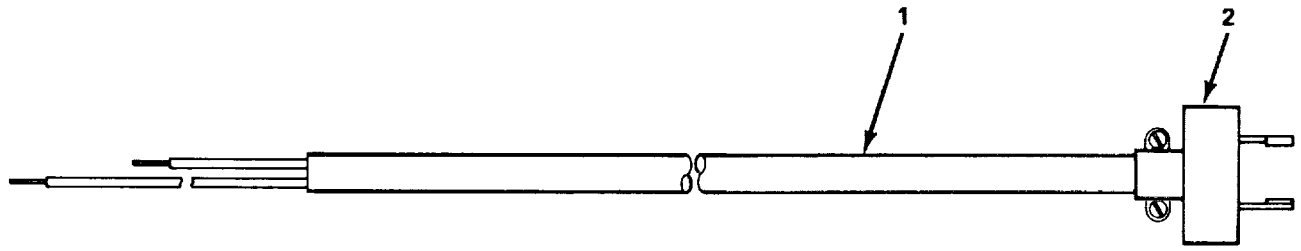


Figure E-5. Cord Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-5	1	XDFZZ		CO-02HGF (2/16)0405	81349	GROUP: 010201 CORD ASSEMBLY CABLE	EA	1
E-5	2	XBFZZ		1703-1-2026-1	15942	SOCKET NO. 7542	EA	1

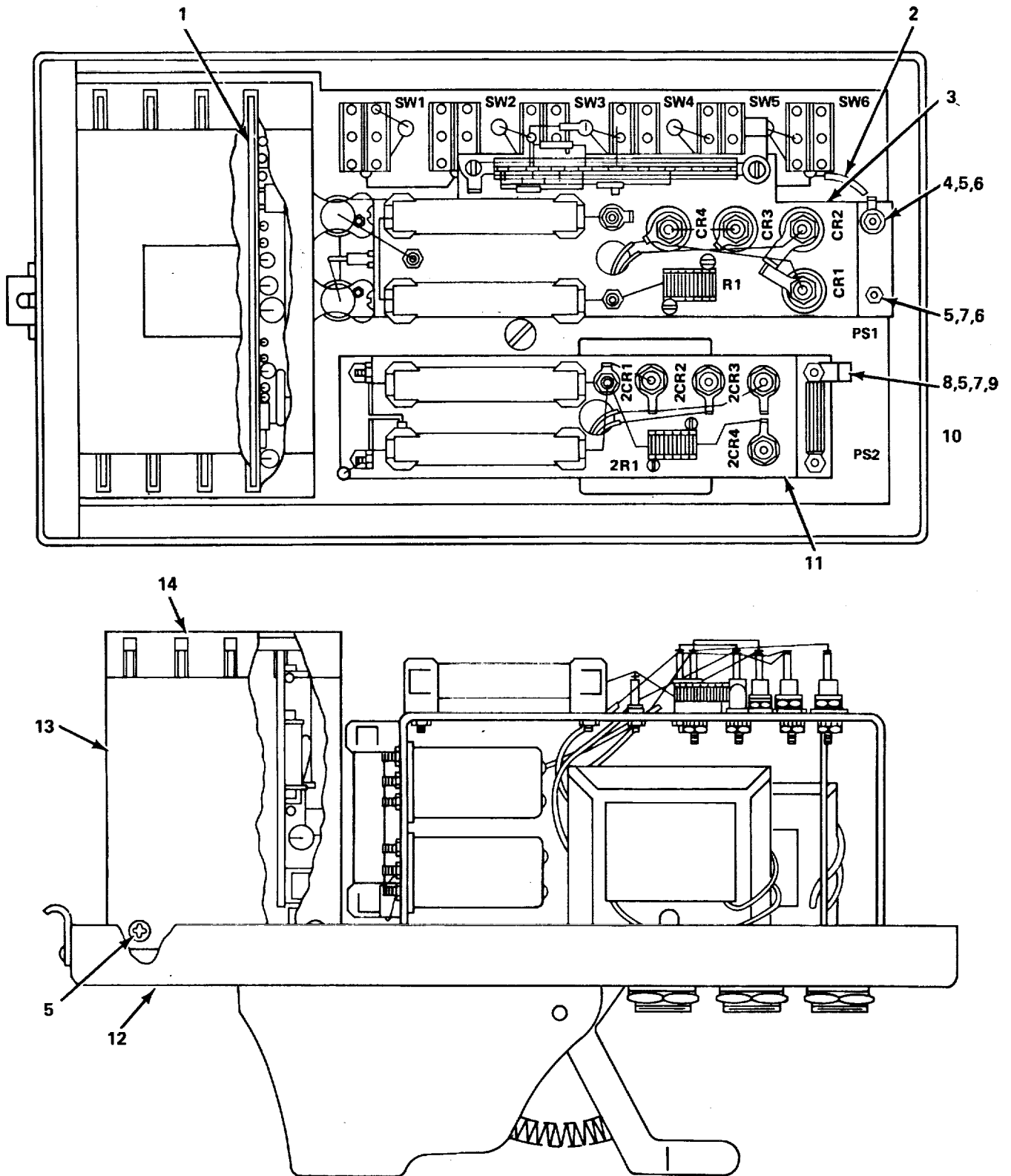


Figure E-6. Cover Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
						GROUP: 0103 COVER ASSEMBLY		
E-6	1	PADDD	5815-00407-2834	1703-1-3025	15942	TERMINAL BOARD ASSEMBLY	V1, V2	EA 4
E-6	1	PADDD	5815-00407-2834	1703-1-3025	15942	TERMINAL BOARD ASSEMBLY V3		EA 3
E-6	2	XBFZZ		1703-1-20804	15942	WIRE, HOOKUP, TYPE B, NO. 1854-2		FT V
E-6	3	XBFFF		1703-1-2075	15942	POWER SUPPLY ASSEMBLY, NO. 1		EA 1
E-6	4	XBFZZ		1703-1-2080-2	15942	TERMINAL, NO. 2417-04-00		EA 1
E-6	5	PAFZZ	5305-00-9956653	MS35190-222	96906	SCREW		EA 10
E-6	6	PAFZZ	531000-0134524	MS35649-42	96906	NUT		EA 8
E-6	7	PAFZZ	5310-00-193-7577	MS35333-36	96906	WASHER, INTERNAL TOOTH		EA 7
E-6	8	XBFZZ		1703-1-2080-3	15942	CLIP, CABLE, NO. 773		EA 1
E-6	9	PAFZZ	5310-00-605-8837	MS157954	96906	WASHER		EA 1
E-6	10	XBFZZ		1703-1-2080-1	15942	TERMINAL STRIP ASSEMBLY, NO. 3002		EA 1
E-6	11	XBFFF		1703-1-2072	15942	POWER SUPPLY ASSEMBLY, NO. 2		EA 1
E-6	12	XBFFF		1703-1-2074	15942	COVER, SWITCH, AND TERMINAL BOARD ASSEMBLY		EA 1
E-6	13	XBFZZ		1703-1-2076	15942	HOLDER ASSEMBLY		EA 1
E-6	14	XBFZZ		NPN	15942	STRAP, AMPLIFIER, NO. 2 V3		EA 1

LEGEND

REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.
C1	1	C7	6	Q1	8	R3	13	R9	16	R15	19
C2	2	C8	6	Q2	8	R4	14	R10	13	R16	20
C3	3	CR1	7	Q3	8	R5	8	R11	17	R17	20
C4	4	CR2	7	Q4	8	R6	8	R12	12		
C5	4	CR3	7	R1	9,10,11	R7	13	R13	17		
C6	5	CR4	7	R2	12	R8	15	R14	18		

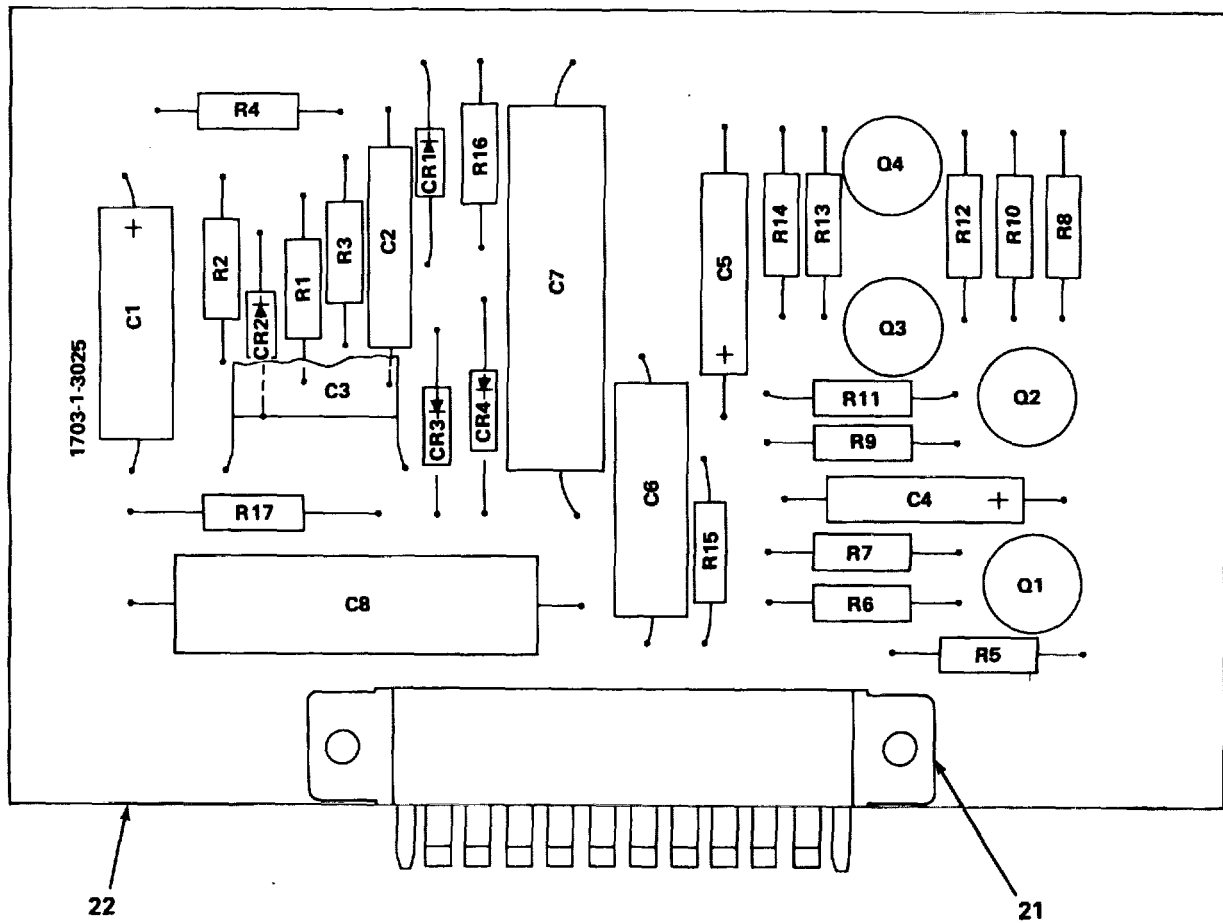


Figure E-7. Terminal Board Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 010301 TERMINAL BOARD ASSEMBLY (V4-GR1, V5-GR2, V6-GR3)		
E-7	1	XBDZZ		1703-1-3025-6	15942	CAPACITOR, 29F474, C1	EA	1
E-7	2	XBDZZ		1703-1-3025-7	15942	CAPACITOR, 29F519, C2	EA	1
E-7	3	XBDZZ		1703-1-3025-8	15942	CAPACITOR, 601PE, C3	EA	1
E-7	4	XBDZZ		1703-1-3025-3	15942	CAPACITOR, 29F473, C4, C5	EA	2
E-7	5	XBDZZ		1703-1-30254	15942	CAPACITOR, 29F494, C6	EA	1
E-7	6	XBDZZ		1703-1-3025-5	15942	CAPACITOR, 29F495, C7, C8	EA	2
E-8	7	XBDZZ		1703-1-3025-9	15942	DIODE, 1N277, CR1, CR2, CR3, CR4	EA	4
E-7	8	XBDZZ		1703-1-3025-2	15942	TRANSISTOR, 2N526, Q1, Q2, Q3, Q4	EA	4
E-7	9	XDDZZ		MS35043-135	96906	RESISTOR, RC20GF104I, R1, RS, R6	V4 EA	3
E-7	9	XDDZZ		MS35043-135	96906	RESISTOR, RC20GF104J, R5, R6	V5, V6 EA	2
E-7	10	XDDZZ		MS35043-131	96906	RESISTOR, RC20GF683J, R1	V5 EA	1
E-7	11	XBDZZ		1703-1-3025- 10	15942	TRIMPOT, 6543AA, R1	V6 EA	1
E-7	12	PADZZ	590540-798-1708	MS35043-111	96906	RESISTOR, RC20GF103J, R2, R7, R10, R12	EA	4
E-7	13	XDDZZ		MS35043-89	96906	RESISTOR, RC20GF122JI, R3	EA	1
E-7	14	PADZZ	590500-279-3504	MS35043-103	96906	RESISTOR, RC20GF472J, R4	EA	1
E-7	15	PADZZ	5905-00-793-8977	MS35043-119	96906	RESISTOR, RC20GF223J, R8	EA	1
E-7	16	PADZZ	5905-00-793-8971	MS35043-91	96906	RESISTOR, RC20GF152J, R9	EA	1
E-7	17	PADZZ	5905-00-446-151	MS35043-83	96906	RESISTOR, RC20GF681J, R11, R13	EA	2
E-7	18	PADZZ	590540-793-8995	MS35043-104	96906	RESISTOR, RC20GFS12J, R14	EA	1
E-7	19	PADZZ	5905-00-279-1880	MS35043-97	96906	RESISTOR, RC20GF272J, R15	EA	1
E-7	20	PADZZ	5905-00-252-5434	MS35043-5	96906	RESISTOR, RC20GF121J, R16, R17	EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-7	21	XBDZZ		1703-1-3025-1	15942	ADAPTER, 133-01043	EA	1
E-7	22	XBDZZ		1703-1-3090	15942	BOARD, TERMINAL	EA	1

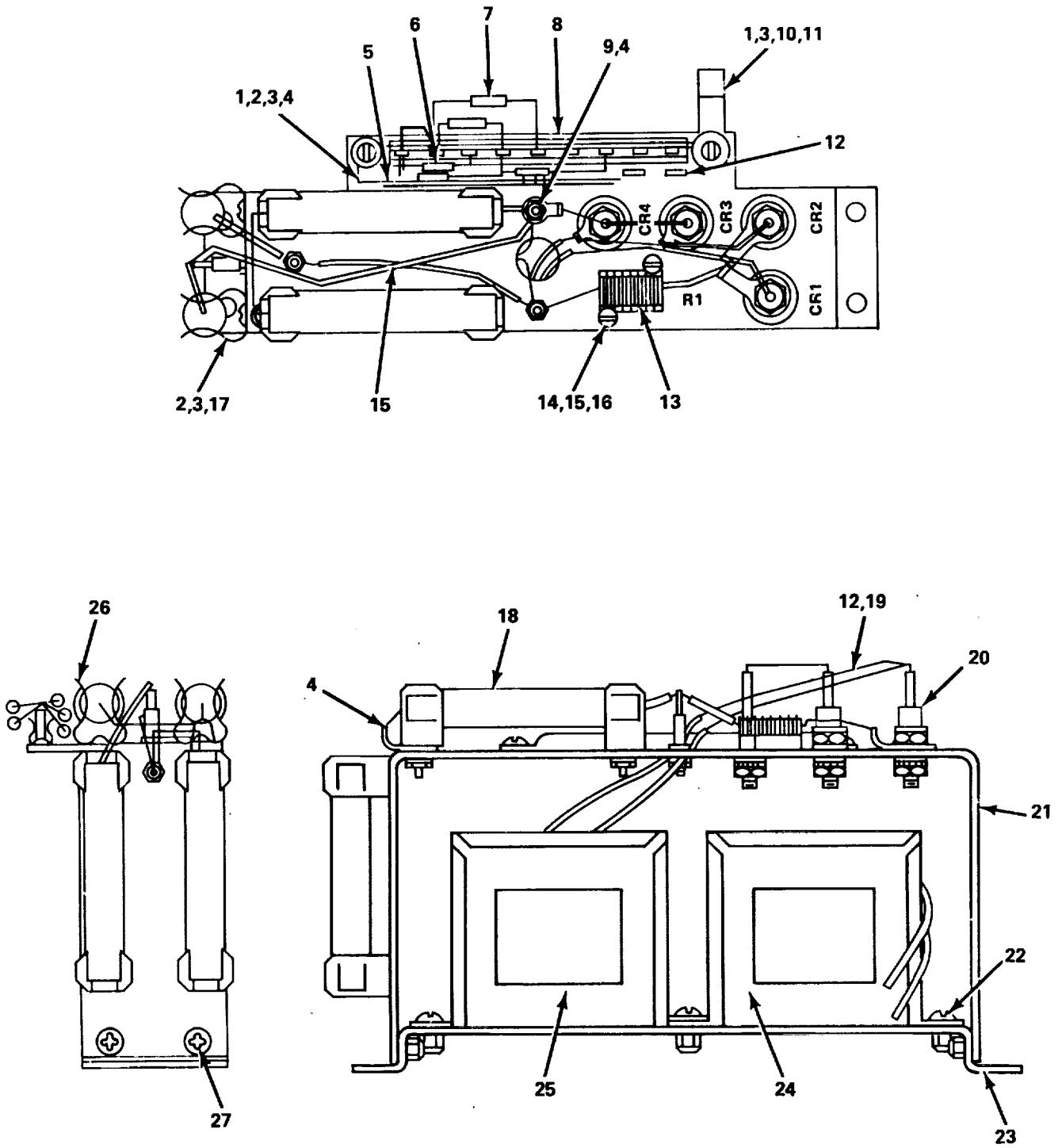


Figure E-8. Power Supply Assembly No. 1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 010302 POWER SUPPLY ASSEMBLY NO. 1		
E-8	1	PAFZZ	5305-00-638-3438	MS35223-15	96906	SCREW	EA	2
E-8	2	PAFZZ	5310-00-0134524	MS3564942	96906	NUT, HEXAGON	EA	10
E-8	3	PAFZZ	531040-193-7577	MS35333-36	96906	WASHER, INTERNAL TOOTH	EA	10
E-8	4	XBFZZ		1703-1-2075-4	15942	TERMINAL, 2417-04-00	EA	3
E-8	5	XBFZZ		1703-1-2075-13	15942	WIRE, HOOKUP, TYPE B, 1854-2	FT	V
E-8	6	PAFZZ	5905-00-252-4018	MS35043-55	96906	RESISTOR, RC20GF470J	EA	1
E-8	7	PAFZZ	5905-00-793-8997	MS35043-81	96906	RESISTOR, RC20GF561J	EA	4
E-8	8	XBFZZ		1703-1-2075-11	15942	TERMINAL STRIP ASSEMBLY, 3009	EA	1
E-8	9	XBFZZ		1703-1-2075-3	15942	TERMINAL, 1980-XC156	EA	4
E-8	10	XBFZZ		1703-1-2075-12	15942	CLIP, CABLE, 775	EA	1
E-8	11	PAFZZ	5310-0-605-8837	MS15795496906	96906	WASHER	EA	1
E-8	12	XBFZZ		1703-1-2075-10	15942	WIRE, BARE, TYPE S, 297	FT	V
E-8	13	XBFZZ		1703-1-2075-7	15942	RESISTOR, TM-SW	EA	1
E-8	14	PAFZZ	5310-00-687-6293	MS35649-22	96906	NUT	EA	2
E-8	15	XBFZZ		1703-1-2075-14	15942	WIRE, HOOKUP, TYPE B, 1854-3	FT	V
E-8	16	PAFZZ	530500-558-3667	MS35225-3	96906	SCREW	EA	2
E-8	17	PAFZZ	5305-00-043-6638	MS35225-13	96906	SCREW	EA	8
E-8	18	XBFZZ		1703-1-2075-6	15942	CAPACITOR, CL34BJ400MP3	EA	4
E-8	19	XBFZZ		1703-1-2075-9	15942	INSULATION, PVC105/18	FT	V
E-8	20	XBFZZ		1703-1-2075-5	15942	RECTIFIER, 1N1200A	EA	4
E-8	21	XBFZZ		1703-1-1097	15942	MARKING, COVER	EA	1
E-8	22	XDFZZ		MS35224-26	96906	SCREW	EA	3

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-8	23	XBFZZ		1703-1-1095	15942	MARKING, BRACKET GRI	EA	1
E-8	24	XBFZZ		1703-1-2075-1	15942	CHOKE, T-56827	EA	1
E-8	25	XBFZZ		1703-1-2075-8	15942	TRANSFORMER, 21F101	EA	1
E-8	26	XBFZZ		1703-1-2075-2	15942	CLIP, FUSE, 123001	EA	8
E-8	27	XDFZZ		MS35192-12	96906	SCREW	EA	4

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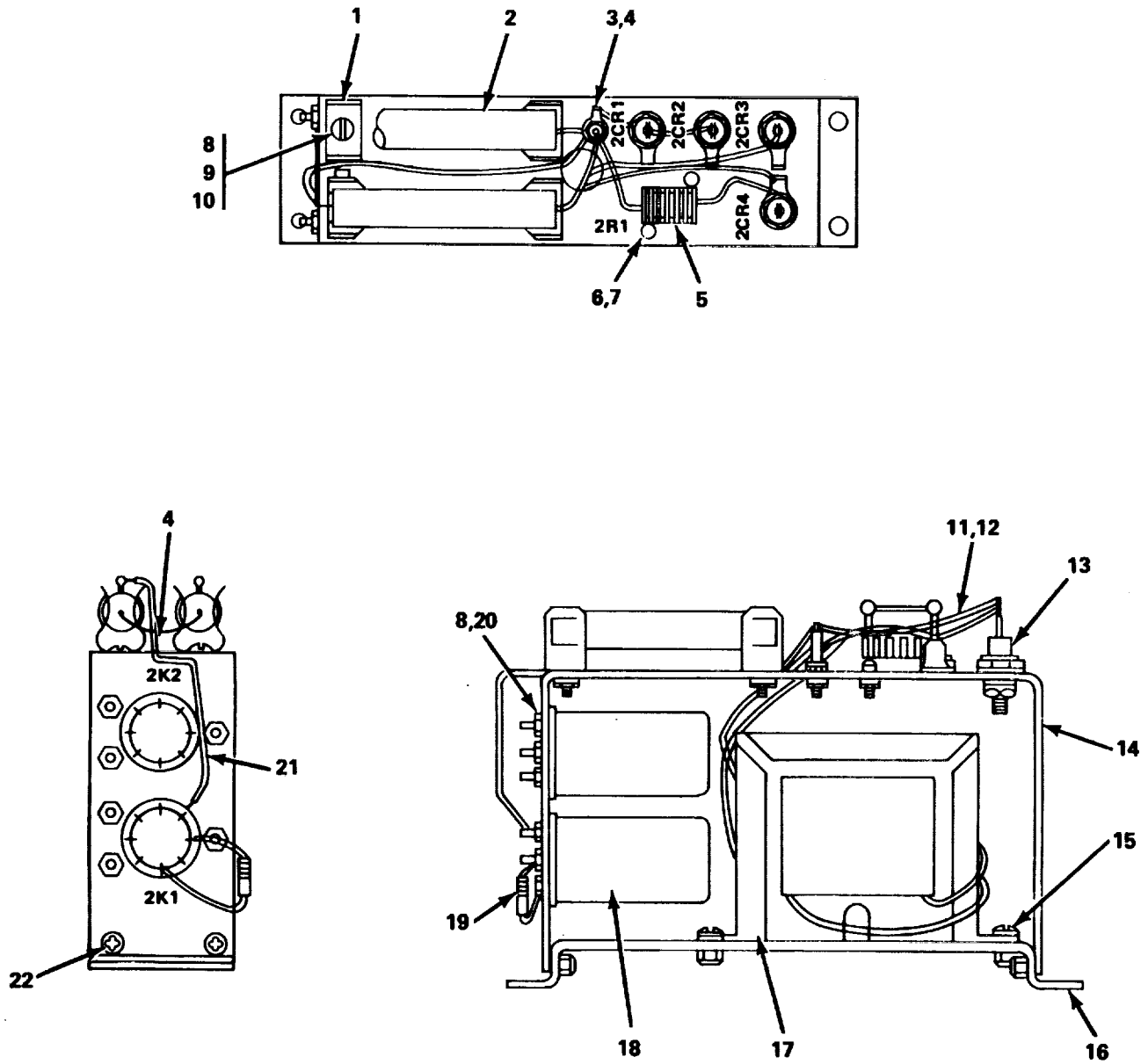


Figure E-9. Power Supply Assembly No. 2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 010303 POWER SUPPLY ASSEMBLY NO. 2		
E-9	1	XBFZZ		1703-1-2072-2	15942	CLIP, FUSE, 123001	EA	4
E-9	2	XBFZZ		1703-1-2072-6	15942	CAPACITOR, CL34BJ400MP3	EA	2
E-9	3	XBFZZ		1703-1-2072-3	15942	TERMINAL, 1980-XC156	EA	1
E-9	4	XBFZZ		1703-1-20724	15942	TERMINAL, 2417-04-00	EA	2
E-9	5	XBFZZ		1703-1-2072-7	15942	RESISTOR, TM-5W	EA	1
E-9	6	PAFZZ	5310-00-687-6293	MS35649-22	96906	NUT	EA	2
E-9	7	PAFZZ	5305-0-558-3667	MS35225-3	96906	SCREW	EA	2
E-9	8	PAFZZ	5310-00-0134524	MS3564942	96906	NUT, HEXAGON	EA	10
E-9	9	PAFZZ	531000-193-7577	MS35333-36	96906	WASHER, INTERNAL TOOTH	EA	4
E-9	10	PAFZZ	5305-00-043-6638	MS35225-13	96906	SCREW	EA	4
E-9	11	XBFZZ		1703-1-2072-9	15942	INSULATION, PVC 105/18	FT	V
E-9	12	XBFZZ		1703-1-2072-10	15942	WIRE, BARE, TYPE S, 297	FT	V
E-9	13	XBFZZ		1703-1-2072-5	15942	RECTIFIER, 1N1200A	EA	4
E-9	14	XBFZZ		1703-1-1092	15942	MARKING, COVER	EA	1
E-9	15	XDFZZ		MS35224-26	96906	SCREW	EA	2
E-9	16	XBFZZ		1703-1-1091	15942	MARKING, BRACKET	EA	1
E-9	17	XBFZZ		1703-1-2072-1	15942	TRANSFORMER, 26F68	EA	1
E-9	18	XBFZZ		1703-1-2072-8	15942	RELAY, W33HSX179	EA	2
E-9	19	PAFZZ	5905-00-299-2054	MS35044-9	96906	RESISTOR	EA	1
E-9	20	PAFZZ	5310-0-193-7577	MS35333-36	96906	WASHER, INTERNAL TOOTH	EA	6
E-9	21	XBFZZ		1703-1-2072-11	15942	WIRE, HOOKUP, TYPE B, 1854-3	FT	V
E-9	22	XDFZZ		MS35192-12	96906	SCREW	EA	4

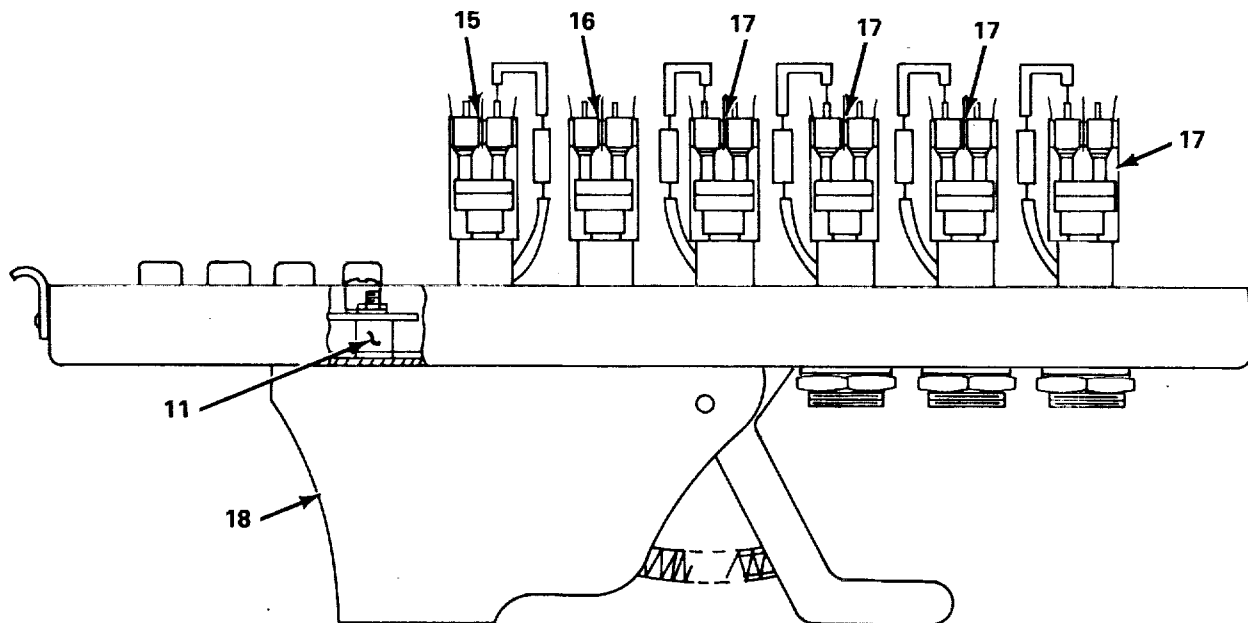
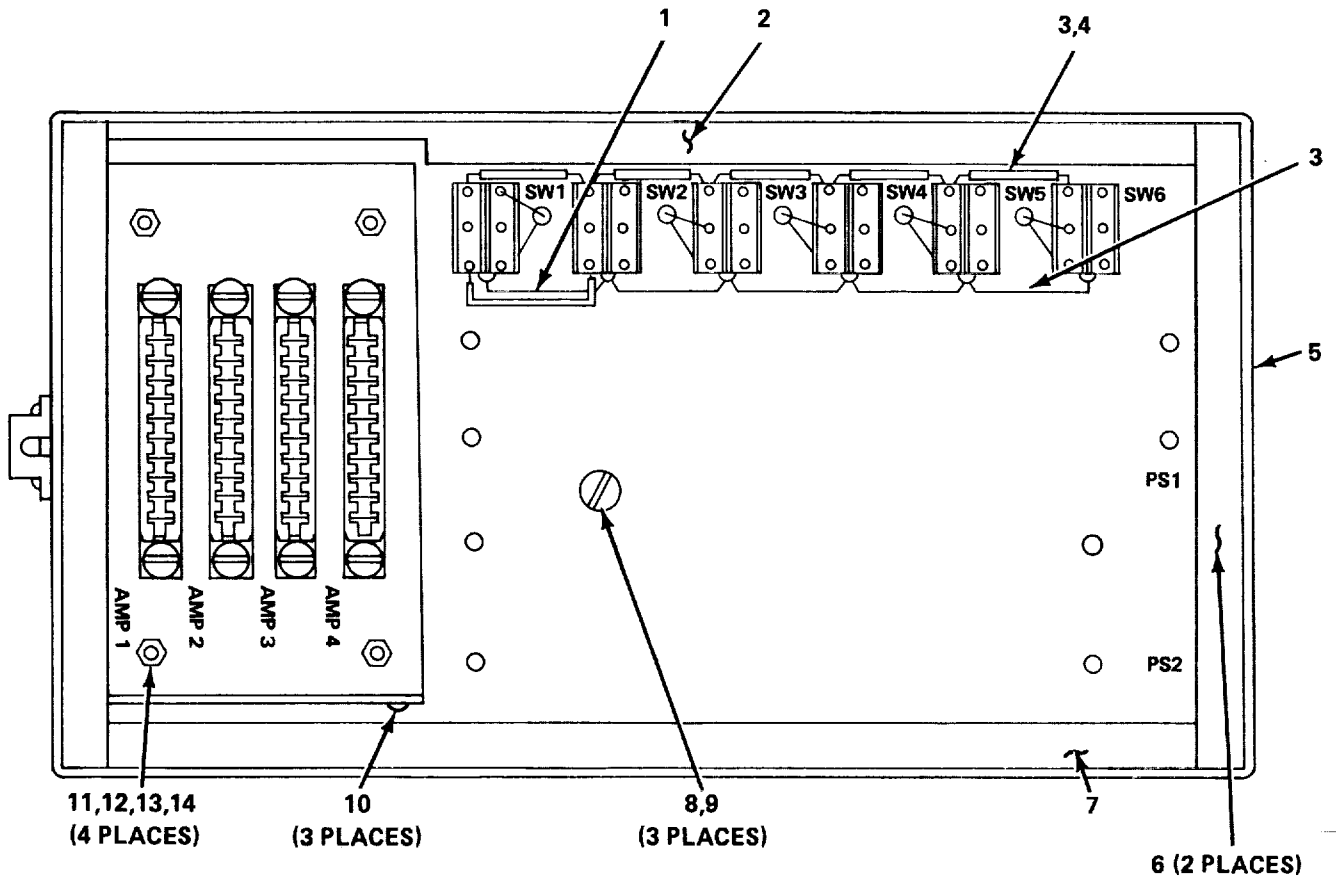


Figure E-10. Cover, Switch, and Terminal Board Subassembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 010304 COVER, SWITCH, AND TERMINAL BOARD SUB- ASSEMBLY		
E-10	1	XBFZZ		1703-1-20744	15942	WIRE, HOOKUP, TYPE B, 1854-3	FT	V
E-10	2	XBFZZ		1703-1-1128- GR2	15942	GASKET	EA	1
E-10	3	XBFZZ		1703-1-2074-2	15942	WIRE, BARE, TYPE S, 297	FT	V
E-10	4	XBFZZ		1703-1-2074-3	15942	INSULATION, PVC-105/20	FT	V
E-10	5	XBFZZ		1703-1-2063	15942	MARKING, COVER	EA	1
E-10	6	XBFZZ		1703-1-1128- GR3	15942	GASKET	EA	2
E-10	7	XBFZZ		1703-1-1128- GR1	15942	GASKET	EA	1
E-10	8	XDFZZ		MS3522344	96906	SCREW	EA	3
E-10	9	XDFZZ		MS35337-42	96906	WASHER	EA	3
E-10	10	XDFZZ		MS3522344	96906	SCREW	EA	3
E-10	11	XBFZZ		1703-1-1099	15942	SPACER	EA	4
E-10	12	XDFZZ		MS3564942	96906	NUT, HEXAGON	EA	4
E-10	13	XDFZZ		MS35333-36	96906	WASHER, INTERNAL TOOTH	EA	4
E-10	14	XDFZZ		MS35239-24	96906	SCREW	EA	4
E-10	15	XBFZZ		1703-1-2156- GR1	15942	SWITCH ASSEMBLY	EA	1
E-10	16	PAFZZ	5930-00-817-7701	1703-1-2074-1	15942	SWITCH, PUSH BUTTON	EA	1
E-10	17	XBFZZ		1703-1-2156- GR2	15942	SWITCH ASSEMBLY	EA	4
E-10	18	XBFZZ		1703-1-1139	15942	HOLDER, HANDSET	EA	1

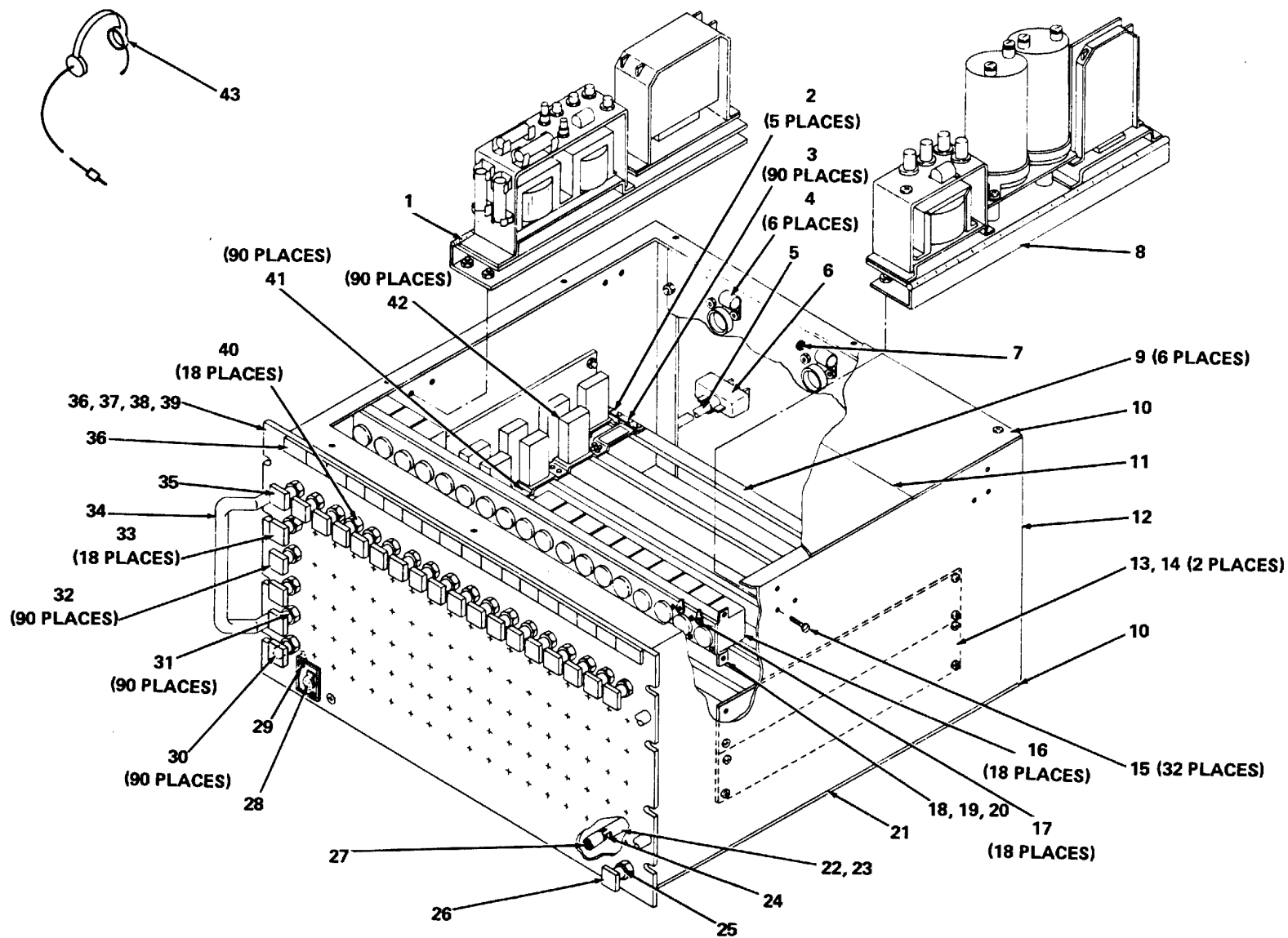


Figure E-11. Communications Control Console OA-7735/G

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 03 COMMUNICATIONS CONTROL CONSOLE OA-7735/G		
E-11	1	XBFFF		1703-1-2119	15942	PLATE ASSEMBLY LH	EA	1
E-11	2	PAFZZ	7410-00-377-8196	284424	30874	CLIP	EA	5
E-11	3	PAFZZ	5935-00-377-8032	159942	88360	SOCKET	EA	90
E-11	4	PAFZZ	534000-964-2555	729	71002	CLAMP, LOOP	EA	6
E-11	5	PAFZZ	5995-00-423-2556	1703-1-2133	15942	CABLE ASSEMBLY, POWER	EA	1
E-11	6	PAFZZ	5935-00-259-0823	A515-2RZ	81352	CONNECTOR PLUG, ELECTRICAL	EA	1
E-11	7	XBFFF		1703-1-3094	15942	PANEL ASSEMBLY	EA	1
E-11	8	XBFFF		1703-1-2122	15942	PLATE ASSEMBLY RH	EA	1
E-11	9	XBFZZ		1703-1-2033	15942	RAIL, MOUNTING	EA	6
E-11	10	XBFZZ		1703-1-2054	15942	COVER, REAR	EA	1
E-11	11	XBFZZ		1703-1-2019	15942	COVER ASSEMBLY, TOP	EA	1
E-11	12	XBFZZ		1703-1-3100	15942	CHASSIS	EA	1
E-11	13	XBFZZ		1703-1-3098	15942	RAIL ASSEMBLY	EA	2
E-11	14	XBFZZ		1703-1-2034	15942	PLATE, RAIL	EA	2
E-11	15	XDFZZ		MS35239-36	96906	SCREW	EA	32
E-11	16	PAFZZ	5945-00-088-8236	W33HSX179	94696	RELAY, ARMATURE	EA	18
E-11	17	PAFZZ	5940-00-935-6453	2417-04-00	78189	TERMINAL, LUG	EA	18
E-11	18	XBFZZ		1703-1-3092	15942	BRACKET ASSEMBLY	EA	1
E-11	19	PAFZZ	5820-00-945-8541	1703-1-3031	15942	BRACKET, RELAY MOUNTING	EA	1
E-11	20	XBFZZ		1703-1-3069	15942	BRACKET	EA	1
E-11	21	XBFZZ		1703-1-2064	15942	COVER ASSEMBLY, BOTTOM	EA	1
E-11	22	XBFZZ		1703-1-1110	15942	HINGE ASSEMBLY	EA	1
E-11	23	XBFZZ		1703-1-1108	15942	SHAFT, HINGE	EA	1
E-11	24	XBFZZ		1703-1-1109	15942	PIN, STRAIGHT, HEADLESS	EA	1
E-11	25	XBFZZ		1703-1-2132 GR3	15942	SWITCH, PUSH	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
E-11	26	PAFZZ	6210-00-257-1172	1703-1-2004-13	15942	LENS, SWITCH	EA	1
E-11	27	XBFZZ		1703-1-1107	15942	ADAPTER, HINGE	EA	1
E-11	28	PAFZZ	5935-00-989-3793	XLR4-31	71468	CONNECTOR, RECEPTACLE	EA	1
E-11	29	PAFZZ	5940-00-682-2477	MS77068-1	96906	TERMINAL, LUG	EA	1
E-12	30	PAFZZ	6240-00-295-1617	CM334	71744	LAMP, INCANDESCENT	EA	90
E-11	31	XBFZZ		1703-1-2132 GR2	15942	SWITCH, PUSH	EA	90
E-11	32	PAFZZ	5930-00-553-6009	481238-6	02769	SWITCH, PUSH	EA	90
E-11	33	PAFZZ	5930-00-787-2931	52PA7B2	91929	PUSII BUTTON	EA	18
E-11	34	XBFZZ		1703-1-2102 GR1	15942	HANDLE, BAIL	EA	2
E-11	35	PAFZZ	5930-00-971-9224	52PA7G2	91929	PUSH BUTTON	EA	18
E-11	36	XBFZZ		1703-1-1066	15942	STRIP, IDENTIFICATION	EA	1
E-11	37	XBFZZ		1703-1-3038	15942	PANEL ASSEMBLY	EA	1
E-11	38	XBFZZ		1703-1-3027	15942	PANEL MARKING	EA	1
E-11	39	XBFZZ		1703-1-3080	15942	PANEL, FRONT	EA	1
E-11	40	XBFZZ		1703-1-2132 GR1	15942	SWITCH, PUSH	EA	18
E-11	41	PAFZZ	5940-00-377-8035	159945	88360	CLIP	EA	90
E-11	42	PAFZZ	5945-00461-2431	769015	30874	RELAY, ARMATURE	EA	90
E-11	43	PAFZZ	5965-00-185-0145	1703-1-2110	15942	HEADSET - MICROPHONE	EA	1

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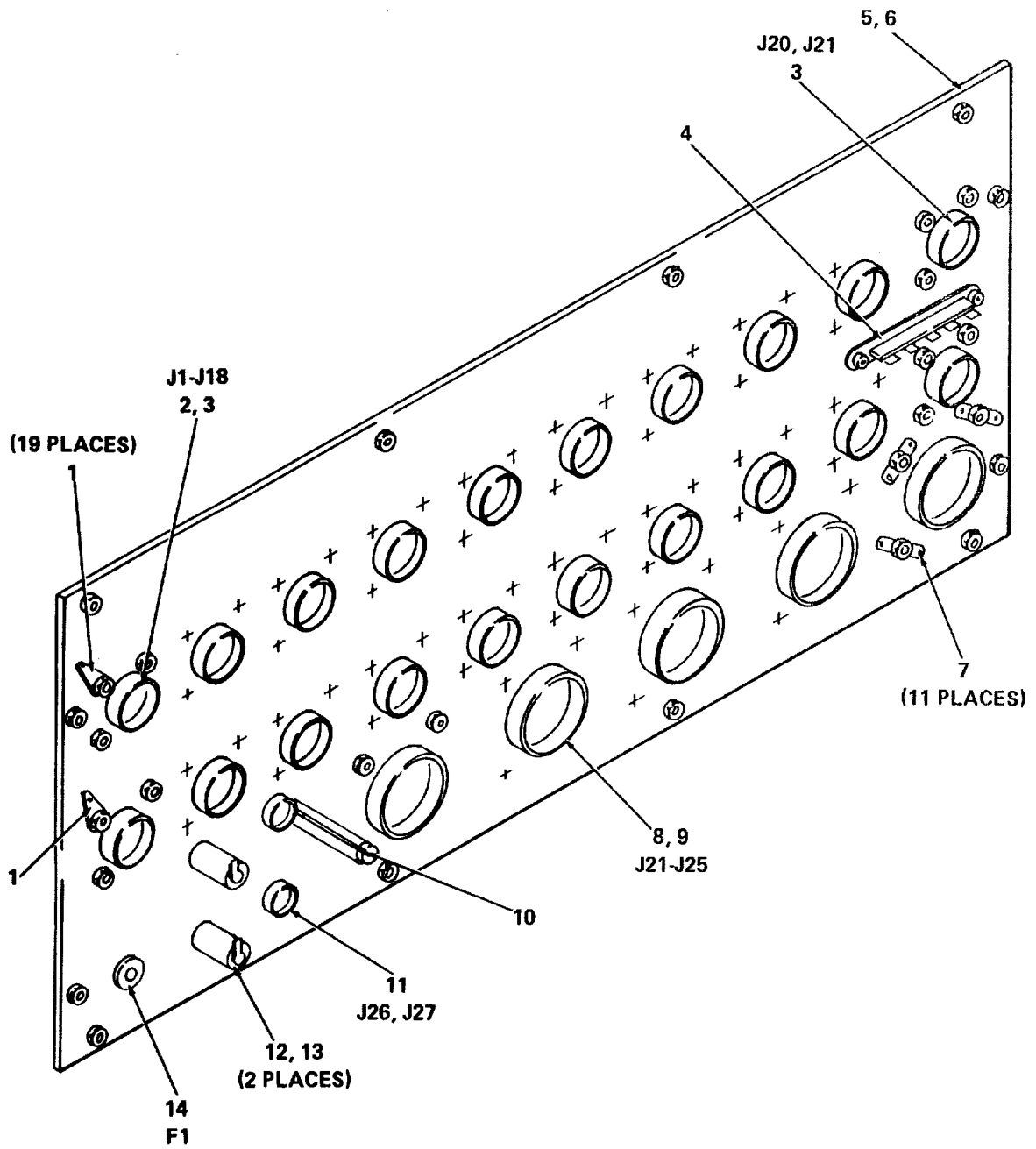


Figure E-12. Panel Assembly 1703-1-3094

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 0301 PANEL ASSEMBLY 1703-1-3094		
E-12	1	PAFZZ	5940-00-682-2477	MS77068-1	96906	TERMINAL, LUG	EA	19
E-12	2	XBFZZ		1703-1-2109	15942	RECEPTACLE ASSEMBLY	EA	18
E-12	3	PAFZZ	5935-00-945-7306	MS3112E14-15S	96906	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	20
E-12	4	XDFZZ		28F683	75173	TERMINAL BOARD	EA	1
E-12	5	XBFZZ		1703-1-3101	15942	MARKING, PANEL	EA	1
E-12	6	XBFZZ		1703-1-2128	15942	PANEL, REAR	EA	1
E-12	7	PAFZZ	5940-00-502-6457	MS77068-1	96906	TERMINAL, LUG	EA	11
E-12	8	XBFZZ		1703-1-2144	15942	RECEPTACLE ASSEMBLY	EA	5
E-12	9	PAFZZ	5935-00-880-4628	PT02E24-61S	77820	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	5
E-12	10	XDFZZ		28F682	75173	TERMINAL BOARD	EA	1
E-12	11	PAFZZ	5935-00-087-0053	MS3110E84S	96906	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	2
E-12	12	XDFZZ		HKD	71400	FUSE HOLDER	EA	2
E-12	13	PAFZZ	5920-00-280-8342	F02A250V1A	81349	FUSE, CARTRIDGE	EA	2
E-12	14	PAFZZ	5325-00-276-6195	Z4163	76385	GROMMET, RUBBER	EA	1

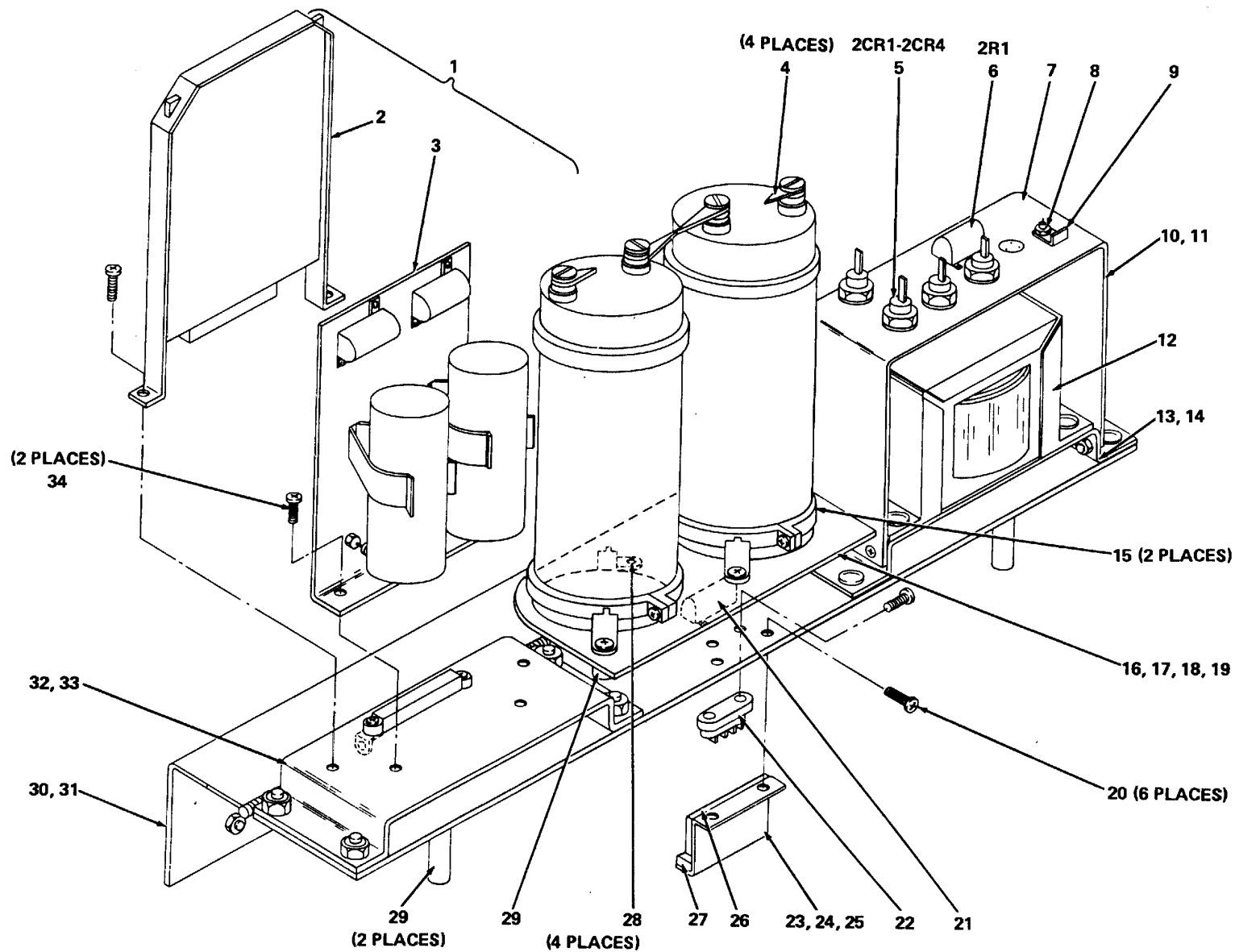


Figure E-13. Plate Assembly RH 1703-1-2122

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 0302 PLATE ASSEMBLY RH 1703-1-2122		
E-13	1	XBFZZ		1703-1-2123	15942	BLINKER ASSEMBLY	EA	1
E-13	2	XBFZZ		1703-1-1089	15942	HOLDER ASSEMBLY	EA	1
E-13	3	XBFZZ		1703-1-3019	15942	BLINKER ASSEMBLY	EA	1
E-13	4	PAFZZ	5940-00-155-7685	1410-10	83330	TERMINAL, LUG	EA	4
E-13	5	PAFZZ	5961-00-052-5138	1N1200A	81349	DIODE	EA	4
E-13	6	XDFZZ		TMSW1R50F	02985	RESISTOR, FIXED	EA	1
E-13	7	XBFZZ		1703-1-2106	15942	POWER SUPPLY	EA	1
E-13	8	XDFZZ		1980-CX156	71279	TERMINAL, STUD	EA	1
E-13	9	PAFZZ	5940-00-935-6453	2417-04-00	78189	TERMINAL, LUG	EA	1
E-13	10	XBFZZ		1703-1007	15942	MARKING, COVER	EA	1
E-13	11	XBFZZ		1703-1-2067	15942	COVER, TOP	EA	1
E-13	12	PAFZZ	5950-00-796-0127	26F68	96256	TRANSFORMER, POWER SUPPLY	EA	1
E-13	13	XBFZZ		1703-1-1056	15942	MARKING, BRACKET	EA	1
E-13	14	XBFZZ		1702-1-2039 GRI	15942	BRACKET, MOUNTING	EA	1
E-13	15	XBFZZ		CE71/2-1/16 IN/	53021	BRACKET, MOUNTING	EA	2
E-13	16	XBFZZ		1703-1-2121	15924	PLATE ASSEMBLY	EA	1
E-13	17	XBFZZ		1703-1-1024	15942	PLATE ASSEMBLY	EA	1
E-13	18	XBFZZ		1703-1-1130	15924	MARKING, PLATE	EA	1
E-13	19	XBFZZ		1703-1-1129	15924	PLATE, MOUNTING	EA	1
E-13	20	XDFZZ		NPN	96906	SCREW	EA	6
E-13	21	XDFZZ		TM1OWSR OOH	02985	RESISTOR, FIXED	EA	1
E-13	22	PAFZZ	5940-00-329-5409	863	83330	TERMINAL BOARD	EA	1
E-13	23	XBFZZ		1703-1-1123	15942	SHIELD ASSEMBLY	EA	1
E-13	24	XBFZZ		1703-1-1059	15942	MARKING, SHIELD	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
E-13	25	XBFZZ		1703-1-1131	15942	SHIELD	EA	1
E-13	26	XBFZZ		1703-1-1153 GRI	15942	INSULATOR	EA	1
E-13	27	XBFZZ		1703-1-1153 GR2	15942	INSULATOR	EA	1
E-13	28	PAFZZ	594040-5024457	2110-06-00	78189	TERMINAL, LUG	EA	4
E-13	29	XBFZZ		1703-1-1152	15942	SPACER	EA	3
E-13	30	XBFZZ		1703-1-2120	15942	MARKING, PLATE	EA	1
E-13	31	XBFZZ		1703-1-3079	15942	PLATE, RH	EA	1
E-13	32	XBFZZ		1703-1-1125	15942	MARKING, BRACKET	EA	1
E-13	33	XBFZZ		1703-1-2068	15942	BRACKET, MOUNTING	EA	1
E-13	34	PAFZZ	5305-00-5584889	MS35223-14	96906	SCREW	EA	2

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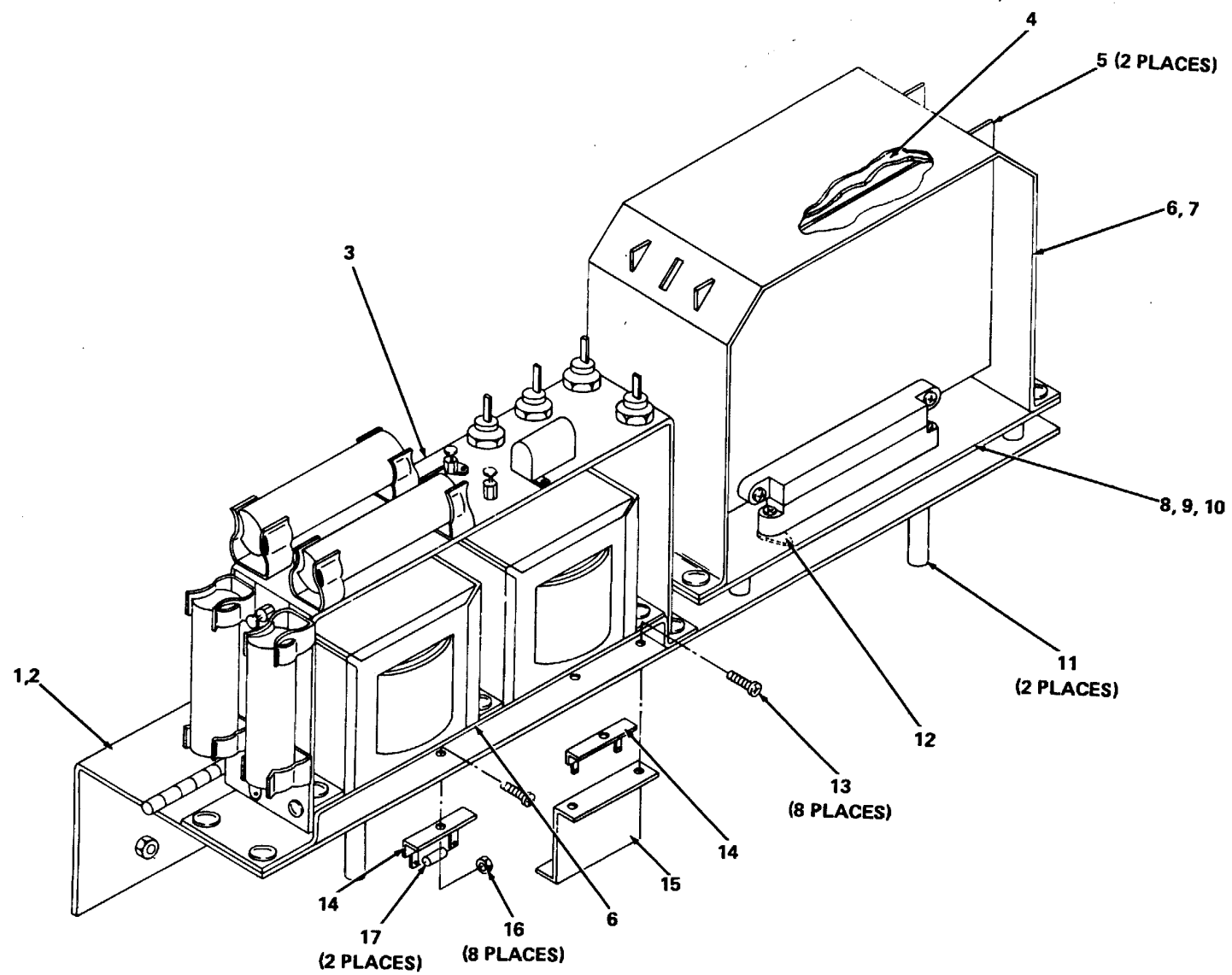


Figure E-14. Plate Assembly LH1703-1-2119

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 0303 PLATE ASSEMBLY LH 1703-1-2119		
E-14	1	XBFZZ		1703-1-2118	15942	MARKING, PLATE	EA	1
E-14	2	PAFZZ	58200-945-8540	1703-1-3033	15942	PANEL, MONITOR	EA	1
E-14	3	XBFZZ		1703-1-2084	15942	POWER SUPPLY	EA	1
E-14	4	XBFZZ		1703-1-1127	15942	CUSHION	EA	1
E-14	5	PAFZZ	5815S0-407-2834	1703-1-3025	15942	CIRCUIT CARD ASSEMBLY	EA	2
E-14	6	XBFZZ		1703-1-1157	15942	HOLDER ASSEMBLY	EA	1
E-14	7	XBFZZ		1703-1-2066	15942	HOLDER	EA	1
E-14	8	XBFZZ		1703-1-2111	15942	BRACKET ASSEMBLY	EA	1
E-14	9	XBFZZ		1703-1-1124	15942	MARKING, BRACKET	EA	1
E-14	10	XBFZZ		1703-1-2065	15942	BRACKET	EA	1
E-14	11	XBFZZ		1703-1-1152	15942	SPACER, SLEEVE	EA	2
E-14	12	PAFZZ	5940-00-935-6453	2417-04-00	78189	TERMINAL, LUG	EA	1
E-14	13	PAFZZ	5305-00405-8960	MS35223-13	96906	SCREW	EA	8
E-14	14	PAFZZ	594000-329-5409	863	83330	TERMINAL BOARD	EA	2
E-14	15	XBFZZ		1703-1-1123	15942	SHIELD, VOLTAGE	EA	1
E-14	16	PAFZZ	5310-00-934-9739	MS35649-242	96906	NUT	EA	8
E-14	17	PAFZZ	5905-00-279-1686	RC32GF560J	81349	RESISTOR, FIXED	EA	2

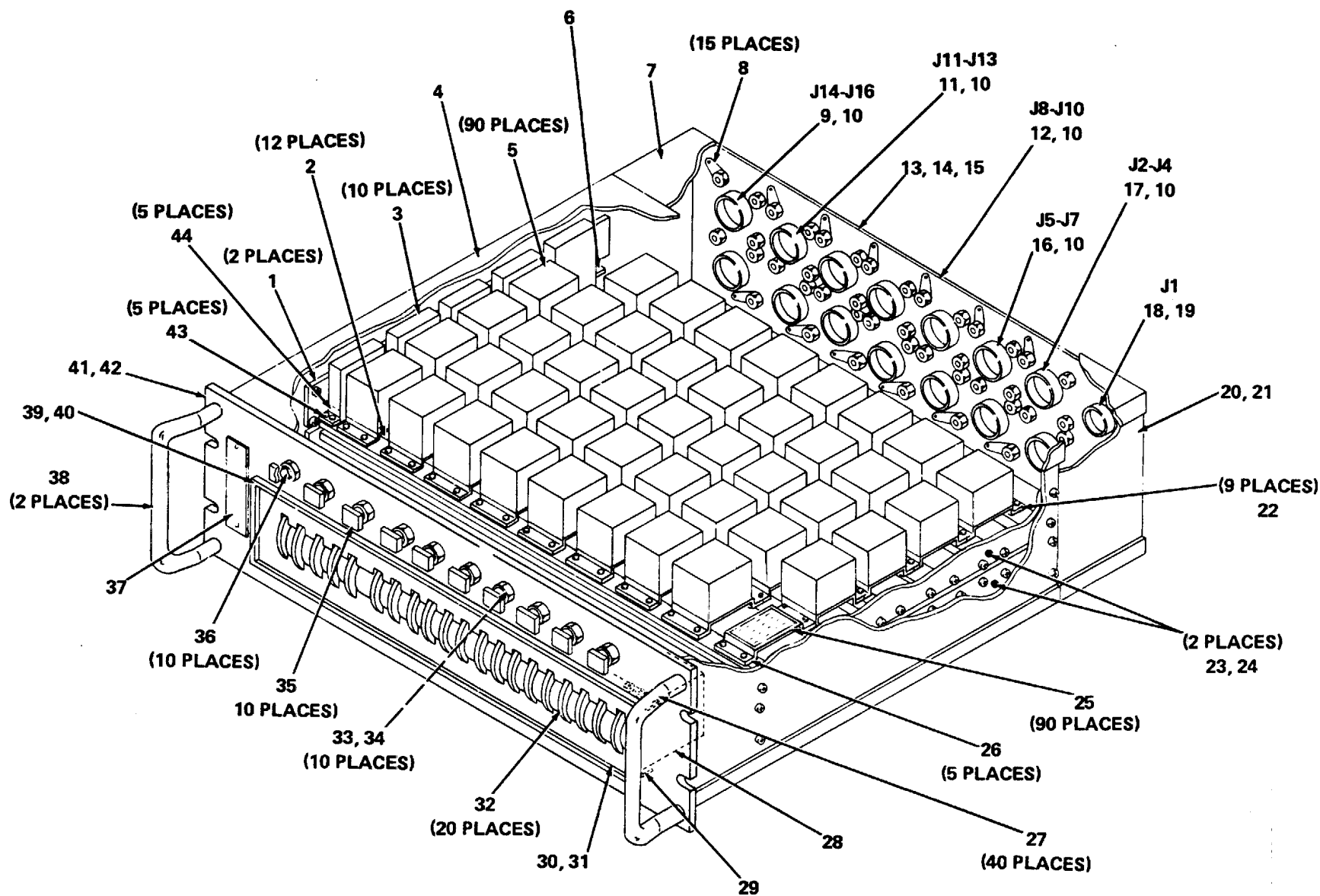


Figure E-15. Intercommunication Switchboard SB-2601/G

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 04 INTERCOMMUNICA- TION SWITCHBOARD SB-2601/G		
E-15	1	XBFZZ		1703-1-2025	15942	PLATE, RAIL	EA	2
E-15	2	XBFZZ		1703-1-2023	15942	RAIL, MOUNTING	EA	12
E-15	3	PAFZZ	5945-00-929-7421	769009	11327	RELAY, ARMATURE	EA	10
E-15	4	XBFZZ		1703-1-2052	15942	COVER, REAR	EA	1
E-15	5	PAFZZ	594500-925-9114	769005	15898	RELAY	EA	90
E-15	6	XBFZZ		1703-1-3106-4	15942	CLIP, ELECTRICAL	EA	1
E-15	7	XBFZZ		1703-1-2028	15942	COVER, FRONT	EA	1
E-15	8	PAFZZ	594000-177-7973	1703-1-3104-1	15942	TERMINAL, LUG	EA	15
E-15	9	XBFZZ		1703-1-2148	15942	RECEPTACLE ASSEMBLY	EA	3
E-15	10	PAFZZ	5935-0-8804628	PT02E24-61S	77820	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	3
E-15	11	XBFZZ		1703-1-2147	15942	RECEPTACLE ASSEMBLY	EA	3
E-15	12	XBFZZ		1703-1-2146	15942	RECEPTACLE ASSEMBLY	EA	1
E-15	13	XBFZZ		1703-1-3104	15942	PANEL ASSEMBLY	EA	1
E-15	14	XBFZZ		1703-1-3109	15942	MARKING, PANEL	EA	1
E-15	15	XBFZZ		1703-1-3062	15942	PANEL, REAR	EA	1
E-15	16	XBFZZ		1703-1-2145	15942	RECEPTACLE ASSEMBLY	EA	3
E-15	17	XBFZZ		1703-1-2091	15942	RECEPTACLE ASSEMBLY	EA	3
E-15	18	XBFZZ		1703-1-2090	15942	RECEPTACLE ASSEMBLY	EA	1
E-15	19	PAFZZ	5935-00-945-7306	MS3112E14- 15S	96906	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	1
E-15	20	XBFZZ		1703-1-3110	15942	MARKING, CHASSIS	EA	1
E-15	21	XBFZZ		1703-1-3045	15942	CHASSIS	EA	1
E-15	22	XBFZZ		1703-1-1075	15942	CLIP, SPRING, TENSION	EA	9
E-15	23	XBFZZ		1703-1-3106	15942	RAIL ASSEMBLY	EA	2
E-15	24	XBFZZ		1703-1-2024	15942	PLATE, RAIL	EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
E-15	25	XBFZZ		1703-1-3106-1	15942	RECEPTACLE	EA	90
E-15	26	XBFZZ		1703-1-1076	15942	CLIP, SPRING, TENSION	EA	5
E-15	27	XBFZZ		1703-1-1028	15942	BUSHING, FLANGE	EA	40
E-15	28	PAFZZ	5895-00454-5409	1703-1-3108	15942	SWITCH ASSEMBLY	EA	1
E-15	29	XBFZZ		1703-1-2032	15942	CHANNEL	EA	1
E-15	30	XBFZZ		1703-1-2010	15942	BRACKET SUB-ASSEMBLY	EA	1
E-15	31	XBFZZ		1703-1-2002	15942	BRACKET, MOUNTING	EA	1
E-15	32	XDFZZ		TSDPOA	08538	S'VITCH, THUMB	EA	20
E-15	33	PAFZZ	5930-00454-8983	1703-1-1169	15942	SWITCH, SWITCHBOARD	EA	10
E-15	34	PAFZZ	5930-0-817-7701	52PB64T2	91929	SWITCH, PUSH	EA	10
E-15	35	PAFZZ	597500-897-5598	52PA7R2	91929	BUTTON, SQUARE	EA	10
E-15	36	PAFZZ	6240-00-295-1617	CM334	71744	LAMP, INCANDESCENT	EA	10
E-15	37	XBFZZ		1703-1-3083-8	15942	PLATE, IDENTIFICATION	EA	1
E-15	38	XBFZZ		1703-1-2102 GRI	15942	HANDLE, BAIL	EA	2
E-15	39	XBFZZ		1703-1-3029	15942	MARKING, BEZEL	EA	1
E-15	40	XBFZZ		1703-1-3028	15942	BEZEL, PANEL	EA	1
E-15	41	XBFZZ		1703-1-3103	15942	PANEL ASSEMBLY	EA	1
E-15	42	XBFZZ		1703-1-3023	15942	PANEL, FRONT	EA	1
E-15	43	XBFZZ		1703-1-3106-3	15942	CLIP, PANEL MOUNTING	EA	5
E-15	44	XBFZZ		1703-1-3106-2	15942	BLOCK ASSEMBLY	EA	5

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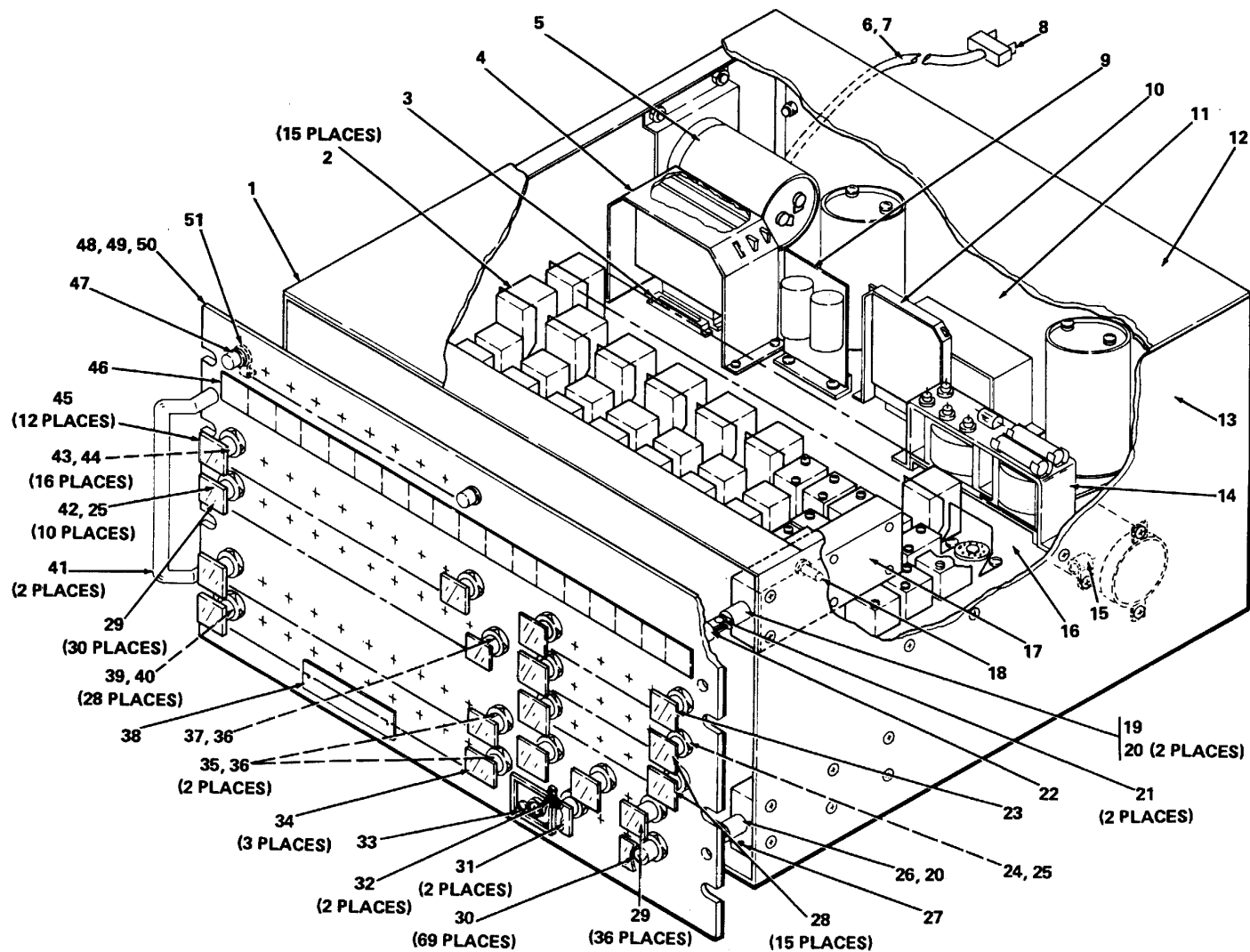


Figure E-16. Radio Intercept Control Switchboard SB-2602/G

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 07 RADIO INTERCEPT CONTROL SWITCHBOARD SB-2602/G		
E-16	1	XBFZZ		1703-1-2029	15942	COVER, FRONT GRI	EA	1
E-16	2	PAFZZ	5945.00-504-3877	KRP11D24 VDC	77342	RELAY, ARMATURE	EA	15
E-16	3	XBFZZ		1703-1-1159	15942	CONNECTOR ASSEMBLY	EA	1
E-16	4	XBFZZ		1703-1-2045	15942	HOLDER ASSEMBLY	EA	1
E-16	5	XBFFF		1703-1-2081	15942	BRACKET ASSEMBLY	EA	1
E-16	6	PAFZZ	5995-00-423-2556	1703-1-2133	15942	CABLE ASSEMBLY, POWER	EA	1
E-16	7	XDFZZ		TA109CSB	84971	CLAMP, LOOP	EA	4
E-16	8	PAFZZ	5935-00-259-0823	7542	90002	CONNECTOR, PLUG, ELEC- TRICAL	EA	1
E-16	9	XBDFE		1703-1-3019	15942	BLINKER ASSEMBLY	EA	1
E-16	10	XBFZZ		1703-1-1089	15942	HOLDER ASSEMBLY	EA	1
E-16	11	XBFFF		1703-1-3107	15942	PANEL ASSEMBLY	EA	1
E-16	12	XBFZZ		1703-1-2053	15942	COVER, REAR	EA	1
E-16	13	XBFZZ		1703-1-3046	15942	CHASSIS	EA	1
E-16	14	XBFFF		1703-1-3139	15942	POWER SUPPLY ASSEMBLY	EA	1
E-16	15	XDFZZ		TA530CTD 158	84971	CLAMP, LOOP	EA	1
E-16	16	XBFFF		1703-1-3121	15942	PLATE ASSEMBLY	EA	1
E-16	17	XBFZZ		1703-1-2055 GR1	15942	BLOCK, GUIDE	EA	1
E-16	18	XBFZZ		1703-1-1104	15942	THUMBSCREW	EA	1
E-16	19	XBFZZ		1703-1-1112 GR2	15942	HINGE ASSEMBLY	EA	1
E-16	20	XBFZZ		1703-1-1111	15942	HINGE, SHAFT	EA	2
E-16	21	XBFZZ		1703-1-1109	15942	PIN, STRAIGHT, HEADLESS	EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-16	22	XBFZZ		1703-1-1107	15942	ADAPTER, HINGE	EA	1
E-16	23	PAFZZ	6210-00-257-1184	1703-1-2004-15	15942	LENS, SWITCH	EA	1
E-16	24	PAFZZ	5930-00454-8979	1703-1-2134 GR4	15942	SWITCH	EA	12
E-16	25	PAFZZ	5930-00-804-3696	53PB8T2	91929	SWITCH, PUSH	EA	20
E-16	26	XBFZZ		1703-1-1112 GRI	15942	HINGE ASSEMBLY	EA	1
E-16	27	XBFZZ		1703-1-2055 GR2	15942	BLOCK, GUIDE	EA	1
E-16	28	PAFZZ	5930-00-971-9224	52PA7G2	91929	PUSH BUTTON	EA	15
E-16	29	PAFZZ	5930-00-787-2931	52PA7B2	91929	PUSH BUTTON	EA	36
E-16	30	PAFZZ	6240-00-295-1617	CM334	71744	LAMP, INCANDESCENT	EA	69
E-16	31	PAFZZ	6210-00-257-1176	1703-1-2004-14	15942	LENS, SWITCH	EA	2
E-16	32	PAFZZ	5940-00-257-5669	L3343-1	46859	TERMINAL, LUG	EA	2
E-16	33	PAFZZ	5935-00-989-3793	XLR4-31	71468	CONNECTOR, RECEPTACLE	EA	1
E-16	34	PAFZZ	6210-00-257-1172	1703-1-2004-13	15942	LENS, SWITCH	EA	3
E-16	35	PAFZZ	5930-00-454-8980	1703-1-2134 GR5	15942	SWITCH	EA	2
E-16	36	PAFZZ	5930-00-807-9712	52PB54T2	91929	SWITCH	EA	2
E-16	37	PAFZZ	5930-00-454-8981	1703-1-2134 GR6	15942	SWITCH	EA	1
E-16	38	XBFZZ		1703-1-1065	15942	PLATE, IDENTIFICATION	EA	1
E-16	39	PAFZZ	5930-00-454-8977	1703-1-2134 GR2	15942	SWITCH	EA	28
E-16	40	PAFZZ	5930-00-817-7702	54PB8T2	91929	SWITCH, PUSH	EA	28
E-16	41	XBFZZ		1703-1-2102 GR1	15942	HANDLE, BAIL	EA	2
E-16	42	PAFZZ	5930-00454-8978	1703-1-2134 GR3	15942	SWITCH	EA	10

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
E-16	43	XBFZZ		1703-1-2134 GR1	15942	SWITCH ASSEMBLY	EA	16
E-16	44	PAFZZ	5930-00-978-7202	334430	56232	SWITCH, PUSH	EA	16
E-16	45	PAFZZ	5930-00-553-6009	52PA7Y2	91929	CAP, ELECTRICAL	EA	12
E-16	46	XBFZZ		1703-1-3083-2	15942	PLATE, IDENTIFICATION	EA	1
E-16	47	XDFZZ		141-1930-1471	72619	LIGHT, INDICATOR	EA	10
E-16	48	XBFZZ		1703-1-3122	15942	PANEL ASSEMBLY	EA	1
E-16	49	XBFZZ		1703-1-3030	15942	MARKING, PANEL	EA	1
E-16	50	XBFZZ		1703-1-3081	15942	PANEL, MOUNTING	EA	1
E-16	51	PAFZZ	5940-00-177-7973	MS77067-1	96906	TERMINAL, LUG	EA	10

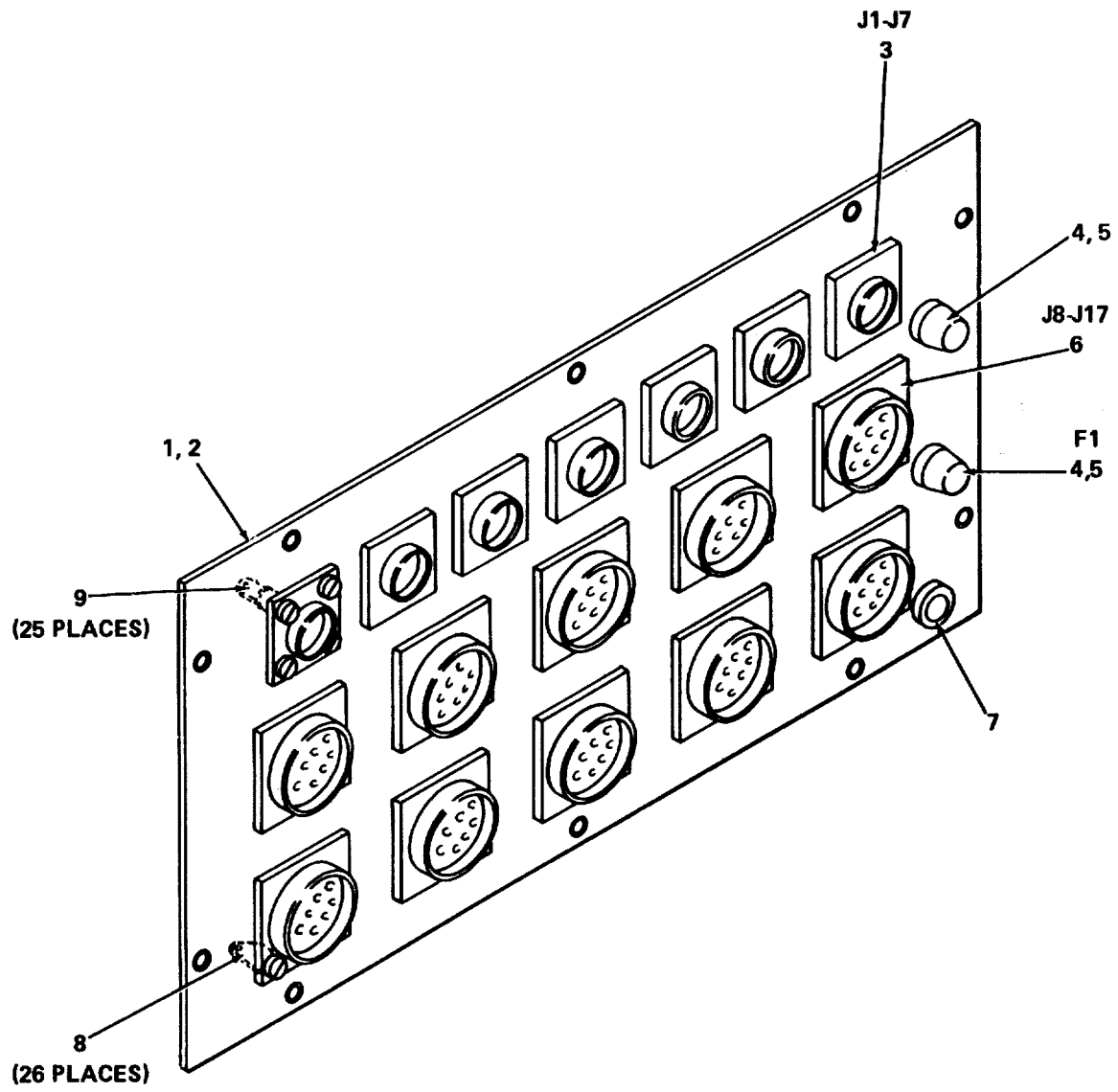


Figure E-17. Panel Assembly 1703-1-3107

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 0701 PANEL ASSEMBLY 1703-1-3107		
E-17	1	XBFZZ		1703-1-3105	15942	MARKING, PANEL	EA	1
E-17	2	XBFZZ		1703-1-3054	15945	PANEL, MOUNTING	EA	1
E-17	3	PAFZZ	5935-00-945-7306	PT02E14-15S	77820	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	7
E-17	4	PAFZZ	5920-00-803-3144	HKP	71400	FUSE HOLDER	EA	2
E-17	5	PAFZZ	5920-00-280-8342	F02A250V1A	81349	FUSE, CARTRIDGE	EA	2
E-17	6	PAFZZ	5935-00-8804628	PT02E24-61S	77820	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	10
E-17	7	PAFZZ	5325-00-276-6195	Z4163	76385	GROMMET, RUBBER	EA	1
E-17	8	XDFZZ		2722-06-03	78189	TERMINAL, LUG	EA	26
E-17	9	PAFZZ	5940-00-935-6453	2717-04-00	78189	TERMINAL, LUG	EA	25

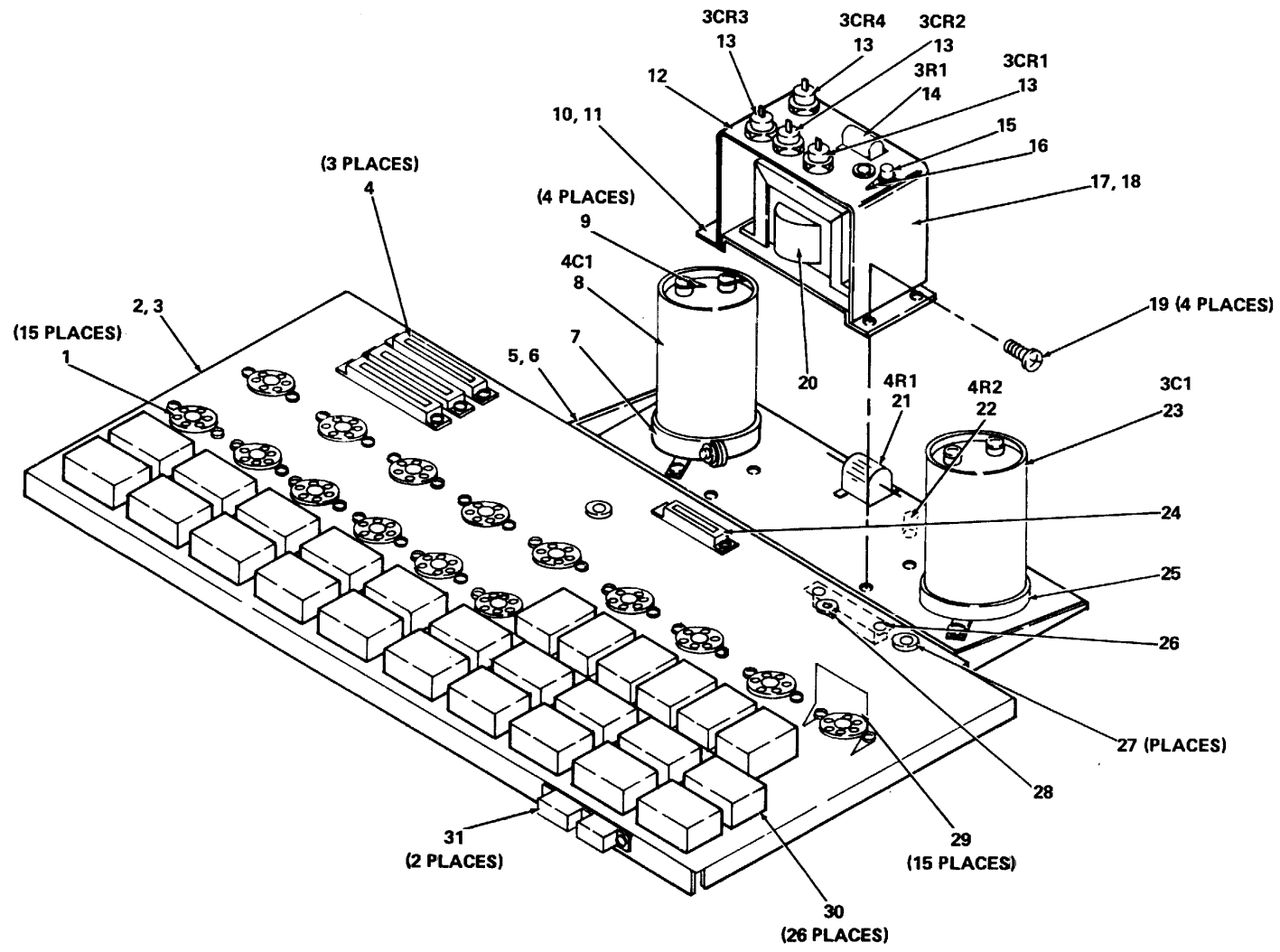


Figure E-18. Plate Assembly 1703-1-3121

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
E-18	1	PAFZZ	5935-00-847-4641	101-12-10-44	71785	GROUP: 0702 PLATE ASSEMBLY 1703-1-3121 SOCKET, RELAY	EA	15
E-18	2	PAFZZ	582000-947-3254	1703-1-3032	15942	MARKING, PLATE ASSEMBLY	EA	1
E-18	3	XBFZZ		1703-1-3057	15942	PLATE, MOUNTING	EA	1
E-18	4	XDFZZ		143010-01	02660	CONNECTOR, PLUG ELECTRICAL	EA	3
E-18	5	XBFZZ		1703-1-2113	15942	MARKING, BRACKET	EA	1
E-18	6	XBFZZ		1703-1-3095	15942	BRACKET, MOUNTING	EA	1
E-18	7	XDFZZ		CE71/2-1116 IN/	53021	BRACKET, MOUNTING	EA	1
E-18	8	PAFZZ	591000059-2439	CE71C901K	81349	CAPACITOR, FIXED	EA	1
E-18	9	PAFZZ	594000-155-7685	2101-10-02	78189	TERMINAL, LUG	EA	4
E-18	10	XBFZZ		1703-1-1166	15942	MARKING, BRACKET	EA	1
E-18	11	XBFZZ		1703-1-2039 GR2	15942	BRACKET, MOUNTING	EA	1
E-18	12	XBFZZ		1703-1-2155	15942	POWER SUPPLY	EA	1
E-18	13	PAFZZ	5961-00-052-5138	1N1200A	81349	DIODE	EA	4
E-18	14	XDFZZ		TMSW1R50F	02985	RESISTOR, FIXED	EA	1
E-18	15	PAFZZ	594000-248-1718	570-1992-03- 01-0	71279	TERMINAL, STUD	EA	1
E-18	16	PAFZZ	594000-935-6453	2417-04-00	78189	TERMINAL, LUG	EA	1
E-18	17	XBFZZ		1703-1-1167	15942	MARKING, COVER	EA	1
E-18	18	XBFZZ		1703-1-2067	15942	COVER, TOP	EA	1
E-18	19	PAFZZ	5305-00-638-3438	MS35223-15	96906	SCREW	EA	4
E-18	20	PAFZZ	5950-00-7960127	26F68	96256	TRANSFORMER	EA	1
E-18	21	XDFZZ		TM0OW5ROCH	02985	RESISTOR, FIXED	EA	1
E-18	22	PAFZZ	5905-00-299-2051	RC32GF471J	81349	RESISTOR, FIXED	EA	1
E-18	23	PAFZZ	5910-00-997-8327	CE71C202J	81349	CAPACITOR, FIXED	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
E-18	24	XDFZZ		143-006-01	02660	CONNECTOR	EA	1
E-18	25	XDFZZ		CE71/2-9/16 IN/	53021	BRACKET, MOUNTING	EA	1
E-18	26	PAFZZ	5940-00-155-7287	204202-000	14100	TERMINAL BOARD	EA	1
E-18	27	XDFZZ		Z267	76385	GROMMET, RUBBER	EA	2
E-18	28	PAFZZ	532500-350-6674	Z1079	76385	GROMMET, RUBBER	EA	1
E-18	29	PAFZZ	594500-945-9962	KCPKRP	77342	CLIP, SPRING, TENSION	EA	15
E-18	30	PAFZZ	5945-00-8390318	W33HSX183	94696	RELAY, ARMATURE	EA	26
E-18	31	PAFZZ	5945-00-966-9452	C200J2-112	35344	RELAY, ARMATURE	EA	2

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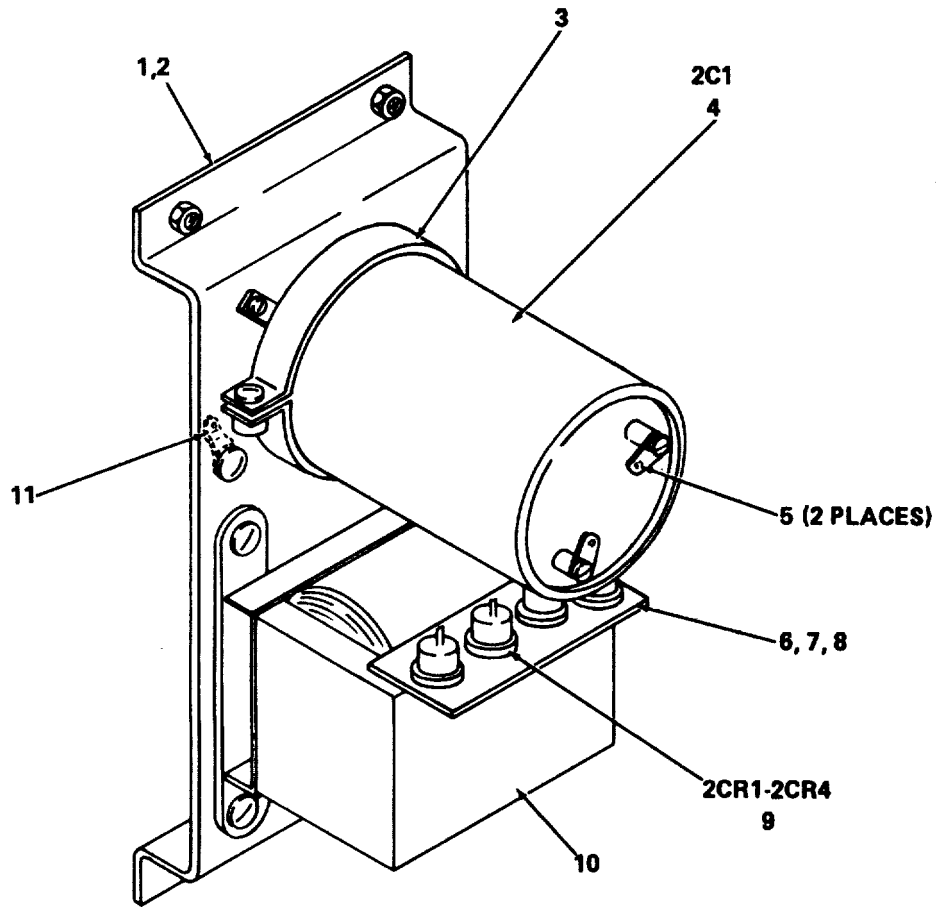


Figure E-19. Bracket Assembly 1703-1-2081

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 0703 BRACKET ASSEMBLY 1703-1-2081		
E-19	1	XBFZZ		1703-1-2062	15942	BRACKET ASSEMBLY	EA	1
E-19	2	XBFZZ		1703-1-3059	15942	BRACKET, MOUNTING	EA	1
E-19	3	XDFZZ		DCM-2-9/16	53021	BRACKET, MOUNTING	EA	1
E-19	4	XDFZZ		2M/150A	53021	CAPACITOR	EA	1
E-19	5	PAFZZ	5940-00-155-7685	2101-10-2	78189	TERMINAL, LUG	EA	2
E-19	6	XBFZZ		1703-1-1173	15942	PLATE ASSEMBLY	EA	1
E-19	7	XBFZZ		1703-1-1116	15942	MARKING, PLATE	EA	1
E-19	8	XBFZZ		1703-1-1098	15942	PLATE, MOUNTING	EA	1
E-19	9	PAFZZ	5961-00-052-5138	IN1200A	81349	DIODE	EA	4
E-19	10	PAFZZ	5950-00-454-8982	1703-1-1164	15942	TRANSFORMER, MODIFIED	EA	1
E-19	11	XDFZZ		2422-06-03	78189	TERMINAL, LUG	EA	1

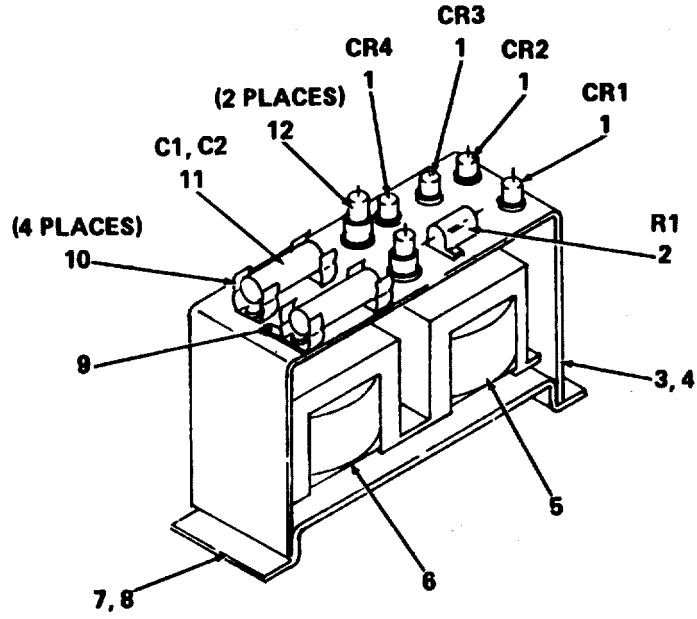


Figure E-20. Power Supply 1703-1-3139

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 0704 POWER SUPPLY 1703-1-3139		
E-20	1	PAFZZ	5961-00-052-5138	1N1200A	81349	DIODE	EA	4
E-20	2	XDFZZ		TM5W1R50F	02985	RESISTOR, FIXED	EA	1
E-20	3	XBFZZ		1703-1-1096 GR2	15942	MARKING, COVER	EA	1
E-20	4	XBFZZ		1703-1-2048 GR2	15942	COVER	EA	1
E-20	5	PAFZZ	5950-00-642-1788	T56827	96256	REACTOR	EA	1
E-20	6	PAFZZ	5950-00-465-238	21F101	96256	TRANSFORMER	EA	1
E-20	7	XBFZZ		1703-1-1095 GR1	15942	MARKING, BRACKET	EA	1
E-20	8	XBFZZ		1703-1-1090 GR1	15942	BRACKET, MOUNTING	EA	1
E-20	9	PAFZZ	5940-00-9356453	2417-04-00	78189	TERMINAL, LUG	EA	1
E-20	10	PAFZZ	5999-00-177-1700	X123001	75915	CLIP, ELECTRICAL	EA	4
E-20	11	PAFZZ	5910-00-828-2318	CL348J400M P3	81349	CAPACITOR, FIXED	EA	2
E-20	12	PAFZZ	5940-00-248-1718	570-1992-03- 01-0	71279	TERMINAL, STUD	EA	2

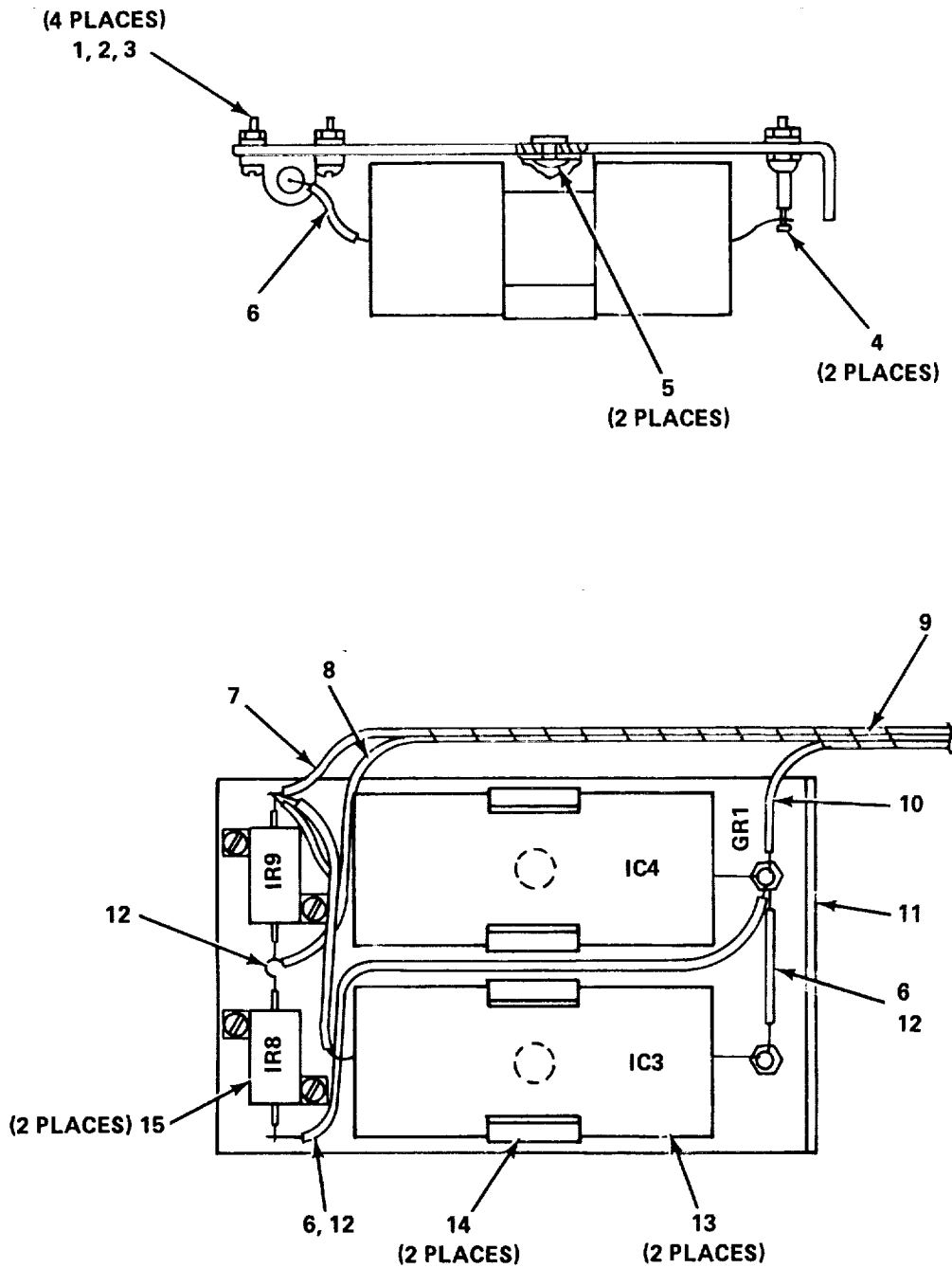


Figure E-21. Blinker Assembly, Board No. 1, 1703-1-3019GR1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 0705 BLINKER ASSEMBLY, BOARD NO. 1, 1703-1-3019 GR1		
E-21	1	PADZZ	5305-00-620-8158	MS35223-3	96906	SCREW	EA	4
E-21	2	PADZZ	531040-687-6293	MS35649-22	96906	NUT	EA	4
E-21	3	PADZZ	5310-0-579-5554	MS35333-35	96906	WASHER	EA	4
E-21	4	XBDZZ		1703-1-3019-3	15942	TERMINAL, 1980-XC156	EA	2
E-21	5	PADZZ	532040-584-9078	MS20470A44	96906	RIVET	EA	2
E-21	6	XBDZZ		1703-1-3019-5	15942	INSULATION, TYPE F, FORM U, GRADE C, PUC-105/18	FT	V
E-21	7	XBDZZ		1703-1-3019-7	15942	WIRE, HOOK UP, TYPE B, 1854-2	FT	V
E-21	8	XBDZZ		1703-1-30196	15942	WIRE, HOOK UP, TYPE B, 1854-1	FT	V
E-21	9	XBDZZ		1703-1-3019-9	15942	LACING, TYPE 5, CLASS II COMPOSITION	FT	V
E-21	10	XBDZZ		1703-1-3019-8	15942	WIRE, HOOK UP, TYPE B, 1854-3	FT	V
E-21	11	XBDZZ		1703-1-1029	15942	MARKING, BLINKER CIRCUIT	EA	1
E-21	12	XBDZZ		1703-1-30194	15942	WIRE, BARE, TYPE S, 297	FT	V
E-21	13	PADZZ	5910-00-469-8556	M39022/01-1697	81349	CAPACITOR	EA	2
E-21	14	XBDZZ		1703-1-3019-1	15942	CLIP, 21368-2	EA	2
E-21	15	XBDZZ		1703-1-3019-2	15942	RESISTOR, RH-5	EA	2

LEGEND

REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.
1C1	1	1CR3	3	1R3	7	1R7	10
1C2	2	1Q1	4	1R4	8	1SCR1	11
1CR1	3	1R1	5	1R5	7	1SCR2	11
1CR2	3	1R2	6	1R6	9		

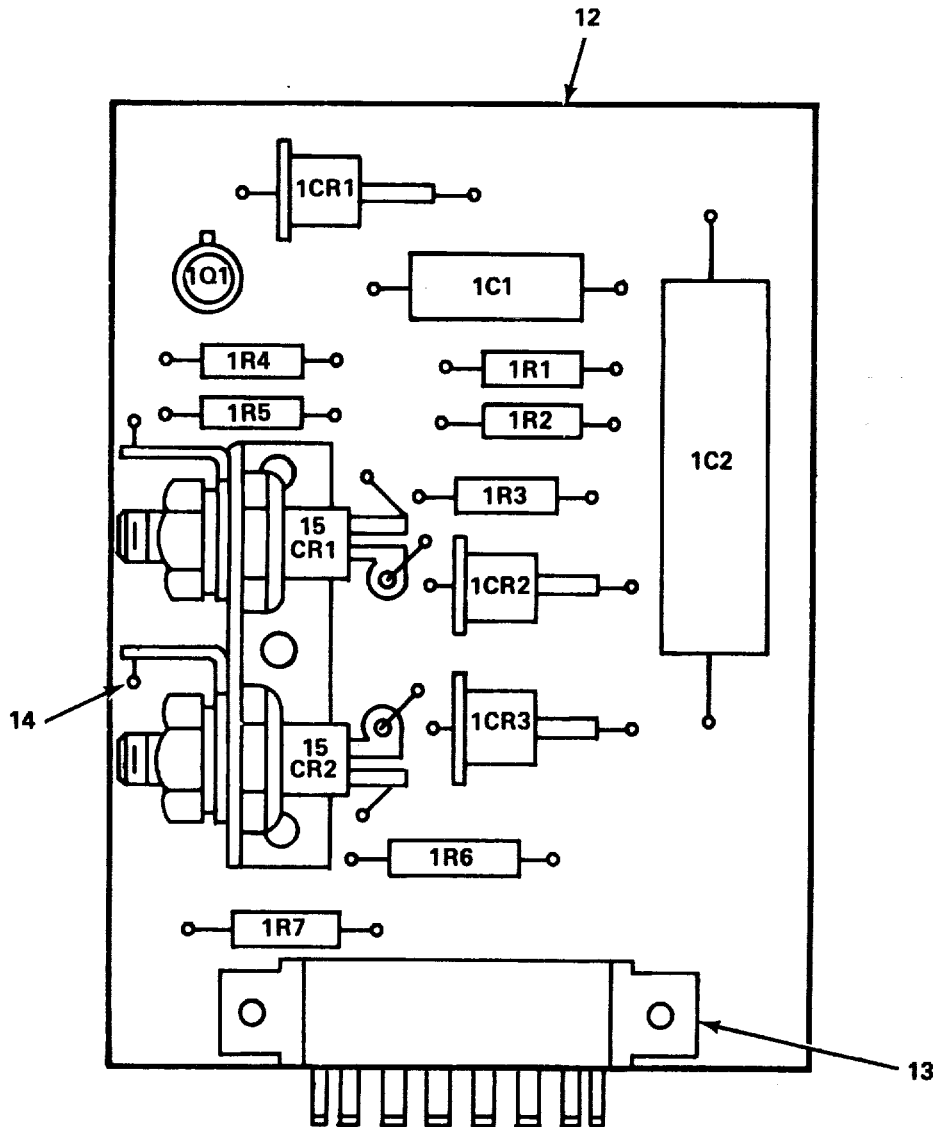


Figure E-22. Blinker Assembly, Board No. 2, 1 703-1-3019GR2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
						GROUP: 0706 BLINKER ASSEMBLY, BOARD NO. 2, 1703-1-3019GR2		
E-22	1	PADZZ	5910-00-951-5696	CS13AF100M	81349	CAPACITOR, ICI	EA	1
E-22	2	PADZZ	5910-00-836-2668	CPOSA1KC2 24K3	81349	CAPACITOR, 1C2	EA	1
E-22	3	PADZZ	5961-00-8144251	1N1692	81483	DIODE, 1CRI-ICR3	EA	3
E-22	4	PADZZ	5961-00-902-1177	2N2646	96212	TRANSISTOR, IQ1	EA	1
E-22	5	PADZZ	5905-00-252-4018	MS35043-55	96906	RESISTOR, IRI	EA	1
E-22	6	PADZZ	5905-00-853-4122	MS35043-143	96906	RESISTOR, 1R2	EA	1
E-22	7	XDDZZ		MS35043-127	96906	RESISTOR, 1R3, IRS	EA	2
E-22	8	PADZZ	5905-00-812-4250	MS35043-63	96906	RESISTOR, 1R4	EA	1
E-22	9	PADZZ	5905-00-195-6806	MS35043-87	81349	RESISTOR, 1R6	EA	1
E-22	10	PADZZ	5905-00446-0151	MS35043-83	96906	RESISTOR, 1R7	EA	1
E-22	11	XBDZZ		1703-1-3019- 11	15942	RECTIFIER, C15FX321, ISCR1, 1SCR2	EA	2
E-22	12	XBDZZ		1703-1-1022	15942	BLINKER CIRCUIT BOARD NO. 2	EA	1
E-22	13	XBDZZ		1703-1-3019- 10	15942	CONNECTOR, 133-006-43	EA	1
E22	14	XBDZZ		1703-1-3019- 12	15942	WIRE, BARE, TYPE S, 297	FT	V

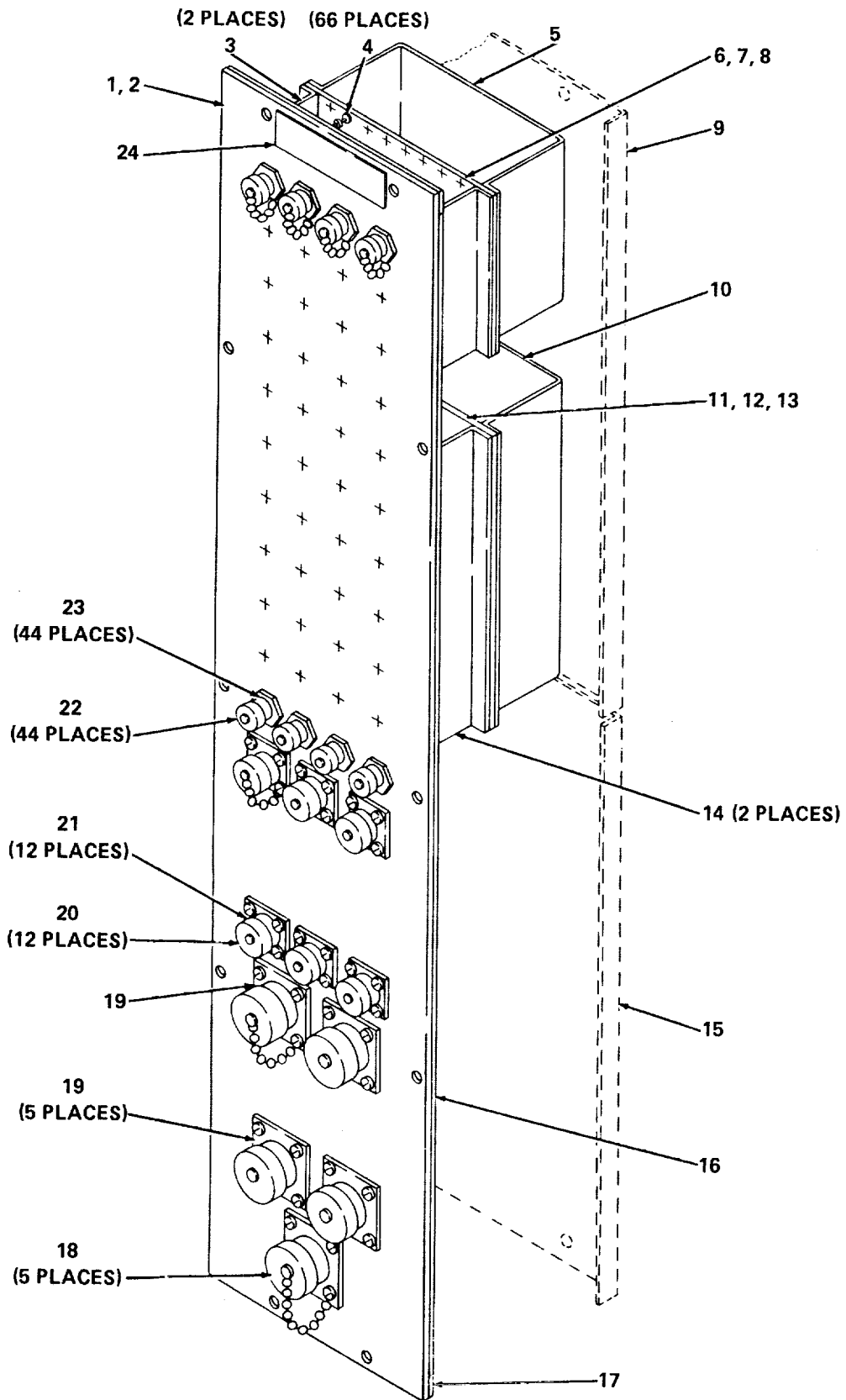


Figure E-23. Connector Assembly MX 7141/M

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 08 CONNECTOR ASSEMBLY MX 7141/M		
E-23	1	XBFZZ		1703-1-3124	15942	MARKING, PANEL	EA	1
E-23	2	XBFZZ		1703-1-3036	15942	CONNECTOR, PANEL	EA	1
E-23	3	XBFZZ		1703-1-1161	15942	BRACKET, MOUNTING	EA	2
E-23	4	PAFZZ	5940-00-926-0030	SE15SXC05	81349	TERMINAL, STUD	EA	66
E-23	5	XBFZZ		1703-1-2017	15942	COVER	EA	1
E-23	6	XBFZZ		1703-1-1064	15942	TERMINAL BOARD ASSEMBLY	EA	1
E-23	7	XBFZZ		1703-1-2127	15942	MARKING, BOARD	EA	1
E-23	8	XBFZZ		1703-1-1033	15942	TERMINAL BOARD	EA	1
E-23	9	XBFZZ		1703-1-2022	15942	FRAME, UPPER	EA	1
E-23	10	XBFZZ		1703-1-1158	15942	COVER	EA	1
E-23	11	XBFZZ		1703-1-2125	15942	TERMINAL BOARD ASSEMBLY	EA	1
E-23	12	XBFZZ		1703-1-2126	15942	MARKING, BOARD	EA	1
E-23	13	XBFZZ		1703-1-2009	15942	TERMINAL BOARD	EA	1
E-23	14	XBFZZ		1703-1-1160	15942	BRACKET, MOUNTING	EA	2
E-23	15	XBFZZ		1703-1-2105	15942	FRAME, LOWER	EA	1
E-23	16	XBFZZ		1703-1-1049	15942	GASKET	EA	1
E-23	17	XBFZZ		1703-1-1048	15942	GASKET	EA	1
E-23	18	PAFZZ	5935-00-901-1531	MS3181-24C	96906	CAP, ELECTRICAL	EA	5
E-23	19	PAFZZ	593500-880-4628	PT02E24-61S	77820	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	5
E-23	20	PAFZZ	5935-00-686-9523	10-101960-143	77820	CAP, ELECTRICAL	EA	12
E-23	21	PAFZZ	5935-00-945-7306	PT02E14-15S	77820	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	12
E-23	22	PAFZZ	5935-00-837-5967	UG570/U	80058	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	44

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-23	23	PAFZZ	5935-00-419-1567	MX1142/U	80058	CAP, ELECTRICAL	EA	44
E-23	24	XBFZZ		1703-1-3083-5	15942	PLATE, IDENTIFICATION	EA	1

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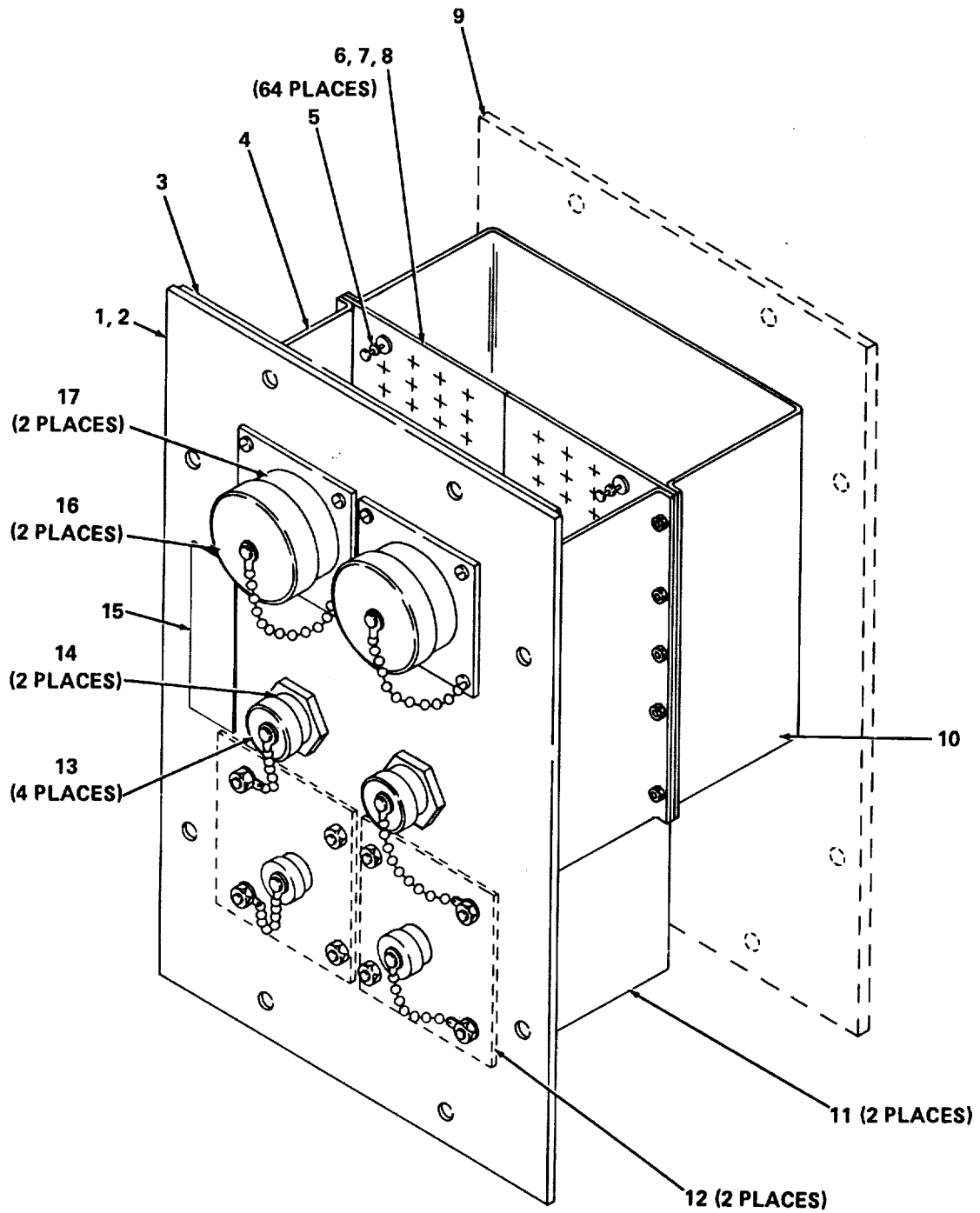


Figure E-24. Connector Assembly MX 7142/G

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 09 CONNECTOR ASSEMBLY MX 7142/G		
E-24	1	XBFZZ		1703-1-3127	15942	MARKING, PANEL	EA	1
E-24	2	XBFZZ		1703-1-3042	15942	PANEL	EA	1
E-24	3	XBFZZ		1703-1-3053	15942	GASKET	EA	1
E-24	4	XBFZZ		1703-1-2005	15942	BRACKET, MOUNTING	EA	1
E-24	5	PAFZZ	5940-00-926-0030	2040C	88245	TERMINAL, STUD	EA	64
E-24	6	XBFZZ		1703-1-1008	15942	TERMINAL BOARD ASSEMBLY	EA	1
E-24	7	XBFZZ		1703-1-2130	15942	MARKING, BOARD	EA	1
E-24	8	XBFZZ		1703-1-2008	15942	TERMINAL BOARD	EA	1
E-24	9	XBFZZ		1703-1-3050	15942	PANEL, INSIDE	EA	1
E-24	10	XBFZZ		1703-1-2015	15942	COVER	EA	1
E-24	11	PAFZZ	5950-00-5374980	TR107	82679	TRANSFORMER	EA	2
E-24	12	XBFZZ		1703-1-1057	15942	GASKET	EA	2
E-24	13	PAFZZ	5935-00-419-1567	MX1142/U	80058	CAP, ELECTRICAL	EA	4
E-24	14	PAFZZ	5935-00-837-5967	UG570/U	80058	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	2
E-24	15	XBFZZ		1703-1-3083-6	15942	PLATE, IDENTIFICATION	EA	1
E-24	16	PAFZZ	5935-00-901-1531	10-101960-243	77820	CAP, ELECTRICAL	EA	2
E-24	17	PAFZZ	5935-00804628	PT02E24-61S	77820	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	2

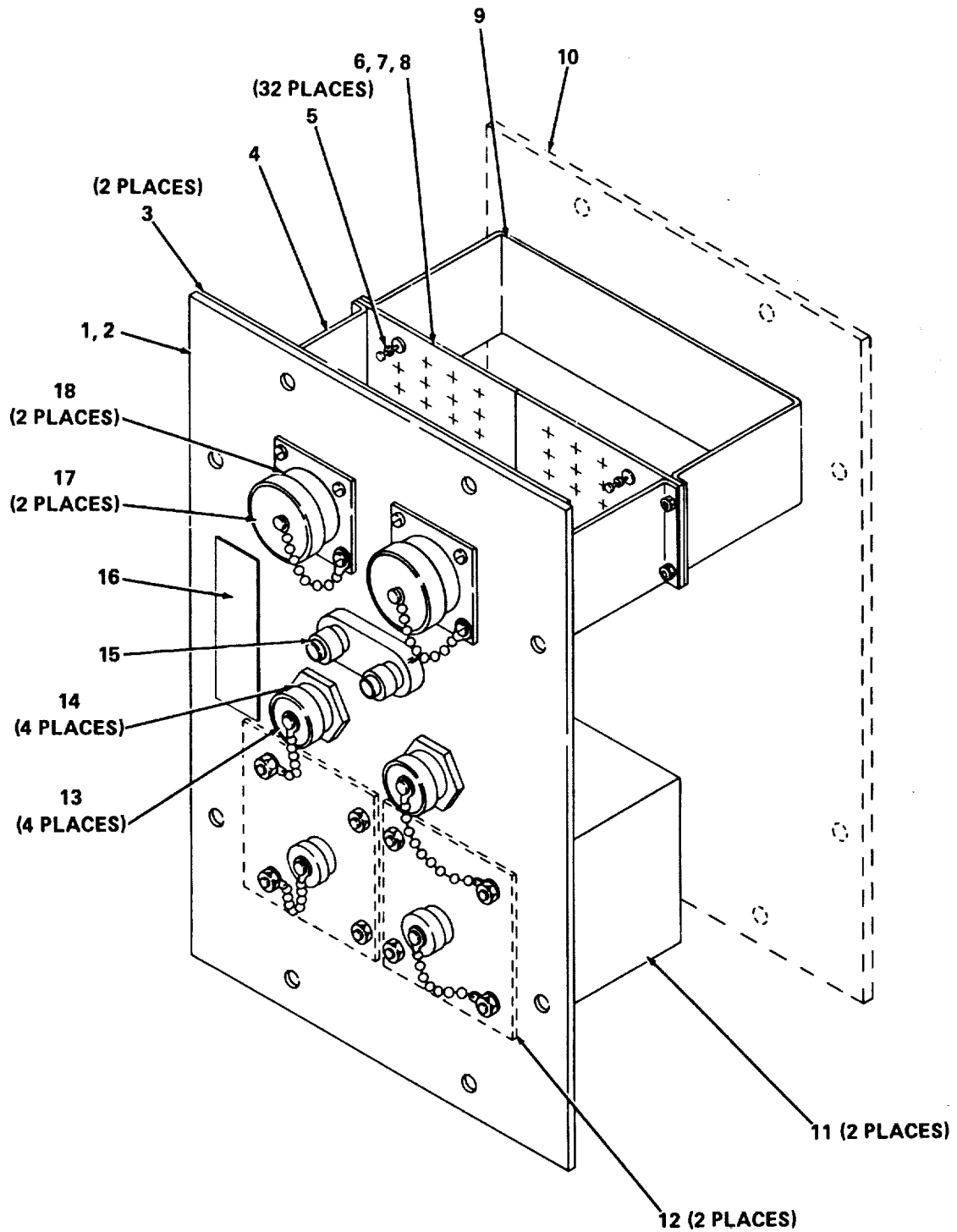


Figure E-25. Connector Assembly MX 7143/G

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 10 CONNECTOR ASSEMBLY MX 7143/G		
E-25	1	XBFZZ		1703-1-3126	15942	MARKING, PANEL	EA	1
E-25	2	XBFZZ		1703-1-3047	15942	PANEL	EA	1
E-25	3	XBFZZ		1703-1-3053	15942	GASKET	EA	2
E-25	4	XBFZZ		1703-1-1034	15942	BRACKET, MOUNTING	EA	1
E-25	S	PAFZZ	5940-00-926-0030	2040C	88245	TERMINAL, STUD	EA	32
E-25	6	XBFZZ		1703-1-1165	15942	TERMINAL BOARD ASSEMBLY	EA	1
E-25	7	XBFZZ		1703-1-2129	15942	MARKING, BOARD	EA	1
E-25	8	XBFZZ		1703-1-1035	15942	TERMINAL BOARD	EA	1
E-25	9	XBFZZ		1703-1-2018	15942	COVER	EA	1
E-25	10	XBFZZ		1703-1-3050	15942	PANEL, INSIDE	EA	1
E-25	11	PAFZZ	595-00537-4980	TR107	82679	TRANSFORMER	EA	2
E-25	12	XBFZZ		1703-1-1057	15942	GASKET	EA	2
E-25	13	PAFZZ	5935-00419-1567	MX1142/U	80058	CAP, ELECTRICAL	EA	4
E-25	14	PAFZZ	5935-00201-5209	UG570/U	96906	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	4
E-25	15	XDFZZ		2713	83330	POST, BINDING	EA	1
E-25	16	XBFZZ		1703-1-3083-7	15942	PLATE, IDENTIFICATION	EA	1
E-25	17	PAFZZ	79300-899-9361	MS3181-14C	96906	CAP, ELECTRICAL	EA	2
E-25	18	PAFZZ	5935-00-945-7306	MS3112E14-1SS	96906	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	2

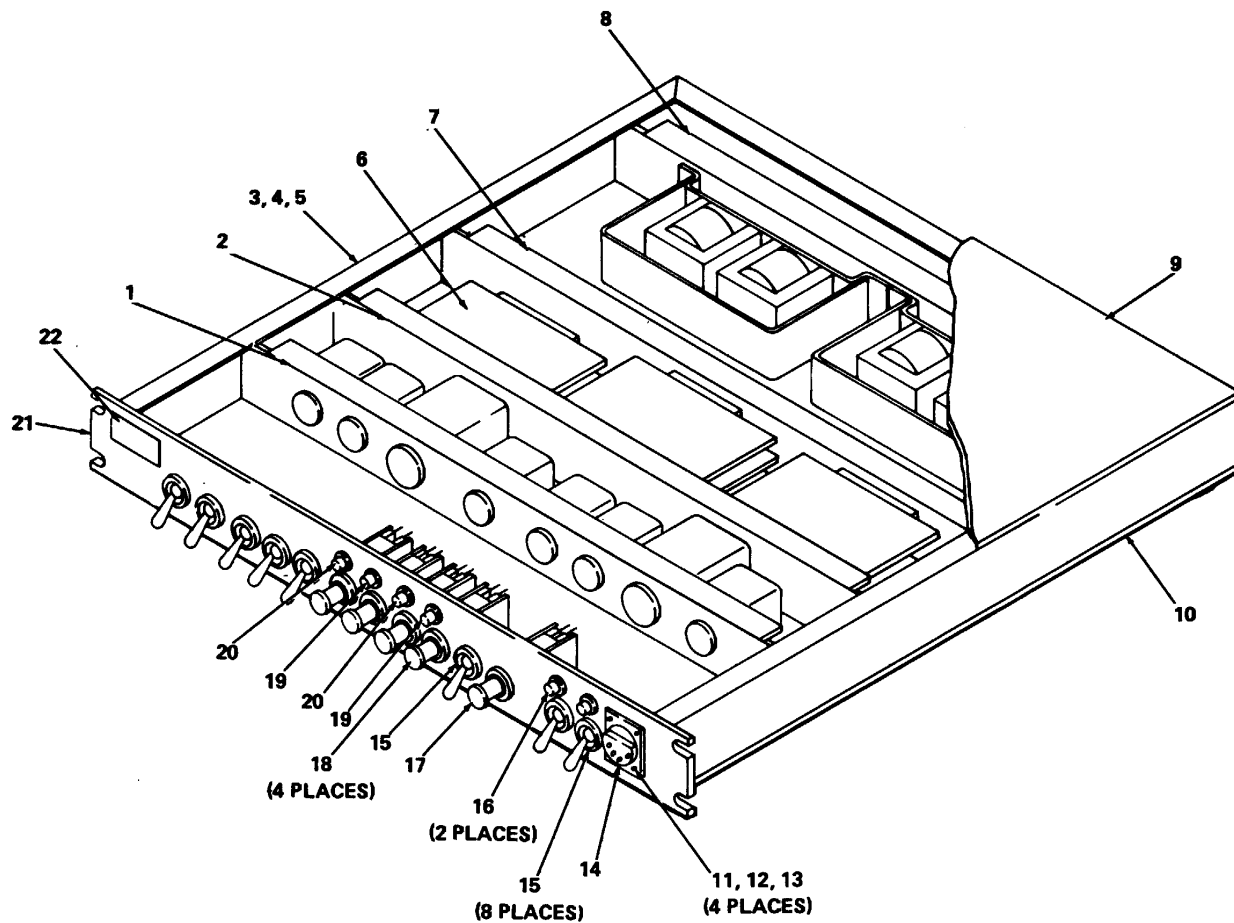


Figure E-26. Monitor Control Panel SB-2600/G (Sheet 1 of 2)

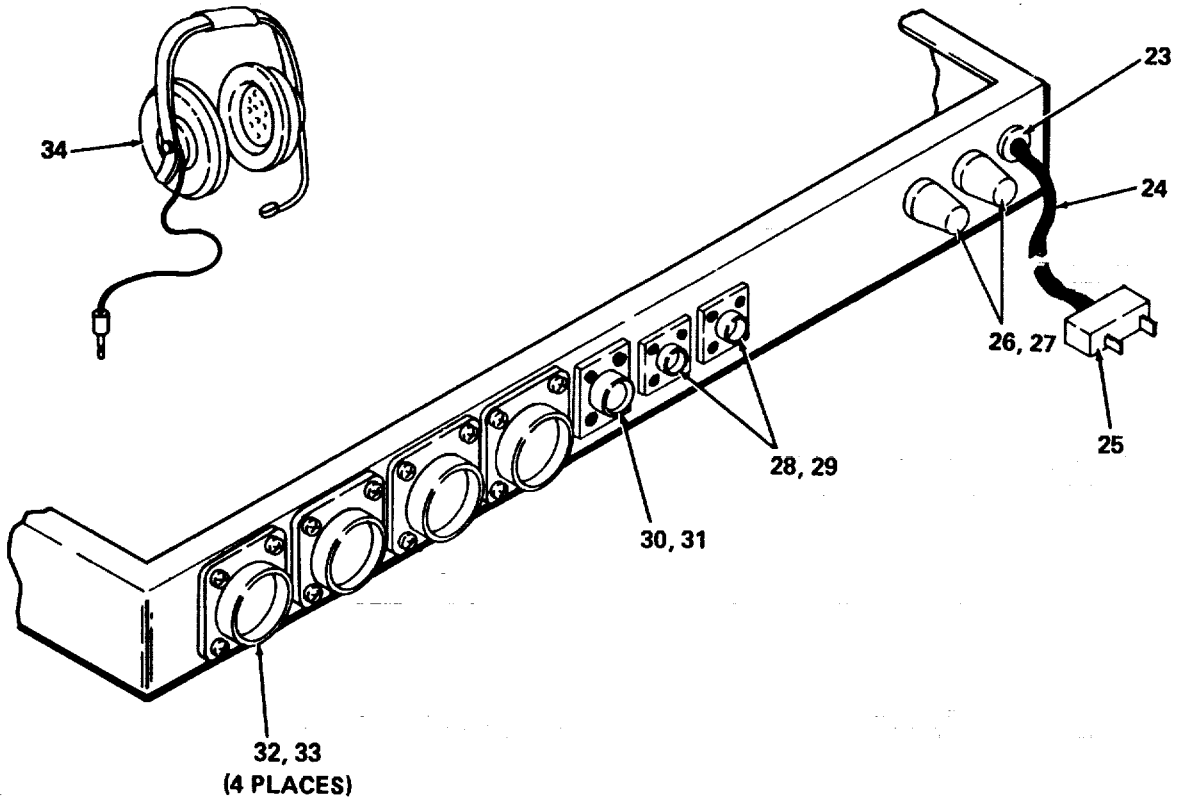


Figure E-26. Monitor Control Panel SB-2600/G (Sheet 2 of 2)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 11 MONITOR CONTROL PANEL SB-2600/G		
E-26	1	XBFFF		1703-1-3087	15942	BRACKET ASSEMBLY	EA	1
E-26	2	XBFFF		1703-1-3086	15942	BRACKET ASSEMBLY	EA	1
E-26	3	XBFZZ		1703-1-3093	15942	CHASSIS ASSEMBLY	EA	1
E-26	4	XBFZZ		1703-1-3074	15942	CHASSIS ASSEMBLY	EA	1
E-26	5	XBFZZ		1703-1-3040	15942	CHASSIS	EA	1
E-26	6	PADDD	5815-00-407-2834	1703-1-3025	15942	CIRCUIT CARD ASSEMBLY	EA	3
E-26	7	XBFFF		1703-1-3091	15942	BRACKET ASSEMBLY	EA	1
E-26	8	XBFFF		1703-1-2101	15942	BRACKET ASSEMBLY	EA	1
E-26	9	XBFZZ		1703-1-2035 GR1	15942	COVER, TOP	EA	1
E-26	10	XBFZZ		1703-1-2035 GR2	15942	COVER, BOTTOM	EA	1
E-26	11	PAFZZ	5305-00-957-6264	MS35190-225	96906	SCREW 4-40 X 1/2 INCH	EA	4
E-26	12	PAFZZ	5310-00-819-4595	NPN	15942	WASHER, LOCK, NO. 4	EA	4
E-26	13	PAFZZ	5310-00-934-9739	MS35649-242	96906	NUT, HEXAGON, NO. 4-40	EA	4
E-26	14	PAFZZ	5935-00-989-3793	XLR-4-31	71468	CONNECTOR, RECEPTACLE	EA	1
E-26	15	PAFZZ	5930-00-913-2983	600-003-021	A1997	SWITCH, TOGGLE	EA	8
E-26	16	PAFZZ	6210-00-085-0659	249-7872- 3337-504	72619	LAMP, CLEAR	EA	2
E-26	17	PAFZZ	5930-00-577-8611	1PB245T	91929	SWITCH, PUSH BUTTON	EA	1
E-26	18	PAFZZ	5930-00-333-7808	2PB245T	91929	SWITCH, PUSH BUTTON	EA	4
E-26	19	PAFZZ	6210-00-118-7344	249-7872- 3331-504	72619	LAMP, RED	EA	2
E-26	20	PAFZZ	6210-00-070-3878	249-7872- 3335-504	72619	LAMP, WHITE	EA	2
E-26	21	PAFZZ	5975-01-083-5209	0099-1-3178	15942	PANEL, MARKED	EA	1
E-26	22	PAFZZ	7590-00-714-9827	NPN	15942	LABEL, MWO	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-26	23	PAFZZ	5325-00-276-6195	Z4163	76385	GROMMET, RUBBER	EA	1
E-26	24	PAFZZ	5995-00423-2556	1703-1-2133	15942	CABLE ASSEMBLY, POWER	EA	1
E-26	25	PAFZZ	5935-0-259-0823	A515-2RZ	81352	CONNECTOR, PLUG, ELECTRICAL	EA	1
E-26	26	PAFZZ	5920-00-803-3144	HKP	71400	FUSE HOLDER	EA	2
E-26	27	PAFZZ	5920-00-280-8342	F02A250VIA	81349	FUSE, CARTRIDGE	EA	2
E-26	28	XBFZZ		1703-1-1172	15942	RECEPTACLE ASSEMBLY	EA	1
E-26	29	PAFZZ	5935-00-0444145	MS3112E8-3S	96906	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	1
E-26	30	XBFZZ		1703-1-2154	15942	RECEPTACLE ASSEMBLY	EA	1
E-26	31	PAFZZ	5935-00-945-7306	MS3112E14- 15S	96906	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	1
E-26	32	XBFZZ		1703-1-2153	15942	RECEPTACLE ASSEMBLY	EA	4
E-26	33	PAFZZ	5935-00-577-8583	67-02E22-67S	02660	CONNECTOR, RECEPTACLE, ELECTRICAL	EA	4
E-26	34	PAFZZ	5965-00-892-3353	DHS17	07303	HEADSET	EA	1

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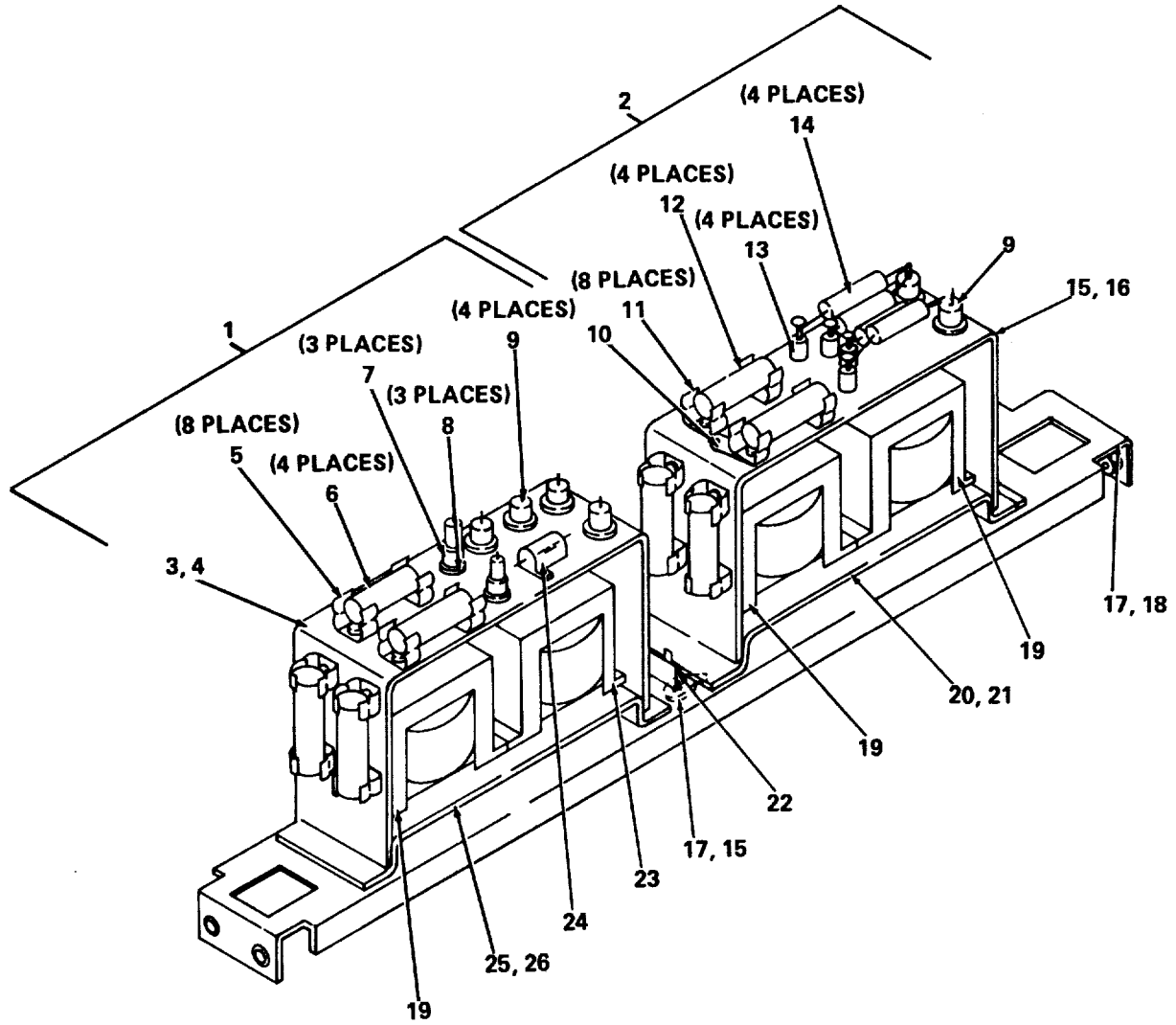


Figure E-27. Bracket Assembly 1703-1-2101

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 1101 BRACKET ASSEMBLY 1703-1-2101		
E-27	1	XBFZZ		1703-1-2084	15942	POWER SUPPLY	EA	1
E-27	2	XBFZZ		1703-1-2096	15942	POWER SUPPLY	EA	1
E-27	3	XBFZZ		1703-1-1096 GR1	15942	MARKING, COVER	EA	1
E-27	4	XBFZZ		1703-1-2048 GR1	15942	COVER, TOP	EA	1
E-27	5	XDFZZ		123001	75915	CLIP, ELECTRICAL	EA	8
E-27	6	PAFZZ	5910-00-828-2318	CL34BJ400 MP3	81349	CAPACITOR, FIXED	EA	4
E-27	7	XDFZZ		1980-CX156	71279	TERMINAL, STUD	EA	3
E-27	8	PAFZZ	5940-00-935-6453	2417-04-00	78189	TERMINAL, LUG	EA	3
E-27	9	PAFZZ	5961-00-052-5138	1N1200A	81349	DIODE	EA	4
E-27	10	PAFZZ	5940-00-583-7741	MS77068-4	96906	TERMINAL, LUG	EA	1
E-27	11	PAFZZ	5999-00-177-1700	X123001	75915	CLIP, ELECTRICAL	EA	8
E-27	12	XDFZZ		TAF406M050 P1D	90201	CAPACITOR, FIXED	EA	4
E-27	13	PAFZZ	5940-0-248-1718	570-1992-03- 01-0	71279	TERMINAL, STUD	EA	4
E-27	14	XDFZZ		RC32GF1R2J	81349	RESISTOR, FIXED	EA	4
E-27	15	XBFZZ		1703-1-1094	15942	MARKING, COVER	EA	1
E-27	16	XBFZZ		1703-1-2047	15942	COVER	EA	1
E-27	17	XBFZZ		1703-1-2082	15942	MARKING, BRACKET	EA	1
E-27	18	XBFZZ		1703-1-2036	15942	BRACKET, MOUNTING	EA	1
E-27	19	PAFZZ	5950-00465-0238	21F101	96256	TRANSFORMER	EA	2
E-27	20	XBFZZ		1703-1-1093	15942	MARKING, BRACKET	EA	1
E-27	21	XBFZZ		1703-1-1090 GR1	15942	BRACKET, MOUNTING	EA	1
E-27	22	PAFZZ	5940-00-329-5409	863	83330	TERMINAL BOARD	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-27	23	XDFZZ		T-56827	96256	CHOKE	EA	1
E-27	24	XDFZZ		TMSWIRSOF	02985	RESISTOR, FIXED	EA	1
E-27	25	XBFZZ		1703-1-1095 GR2	15942	MARKING, BRACKET	EA	1
E-27	26	XBFZZ		1703-1-1090 GR2	15942	BRACKET, MOUNTING	EA	1

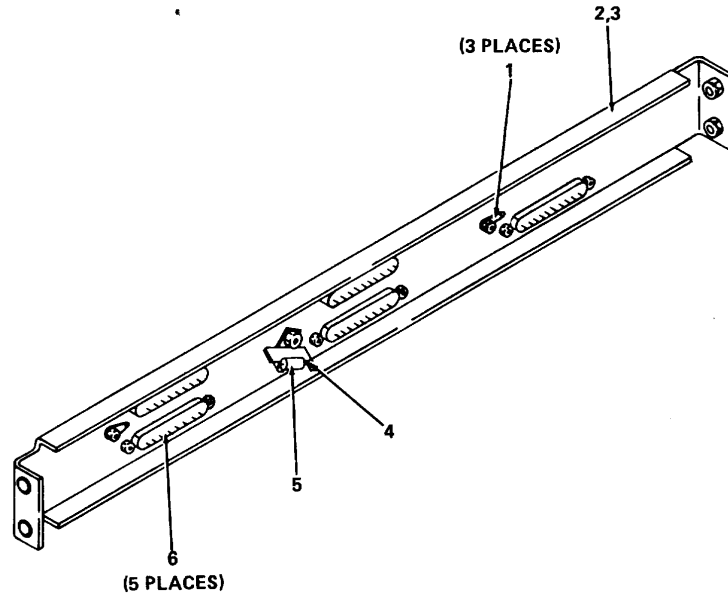


Figure E-28. Bracket Assembly 1703-1-3091

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-28	1	XDFZZ		2027-08-00	78189	GROUP: 1102 BRACKET ASSEMBLY 1703-1-3091 TERMINAL, LUG	EA	3
E-28	2	XBFZZ		1703-1-3075	15942	MARKING, BRACKET	EA	1
E-28	3	XBFZZ		1703-1-2037	15942	BRACKET, MOUNTING	EA	1
E-28	4	PAFZZ	5940-00-329-5409	863	83330	TERMINAL BOARD	EA	1
E-28	5	PAFZZ	5905-00-141-1168	MS35043-95	96906	RESISTOR, FIXED	EA	1
E-28	6	XDFZZ		143-010-01	75915	CONNECTOR	EA	5

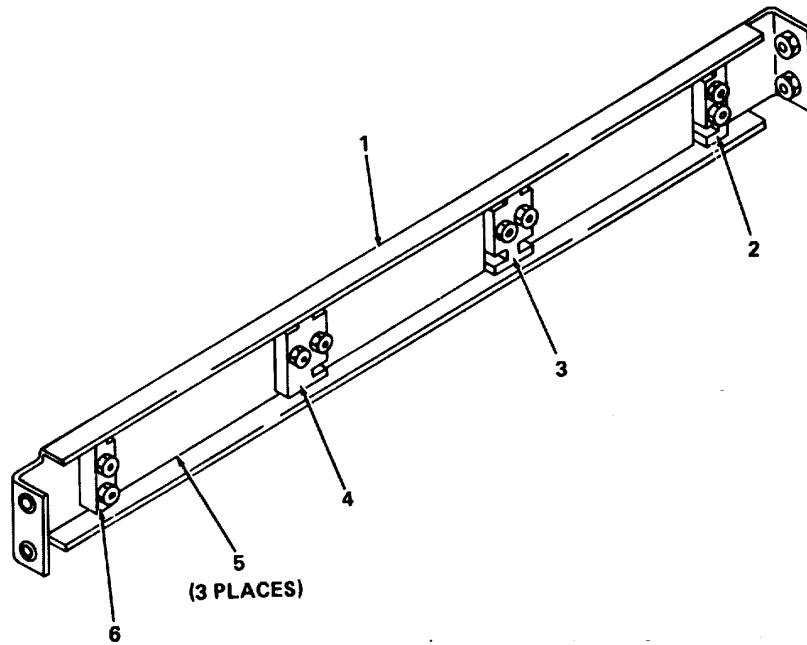


Figure E-29. Bracket Assembly 1703-1-3086

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 1103 BRACKET ASSEMBLY 1703-1-3086		
E-29	1	XBFZZ		1703-1-2038	15942	BRACKET, MOUNTING	EA	1
E-29	2	XBFZZ		1703-1-1086	15942	HOLDER	EA	1
E-29	3	XBFZZ		1703-1-1087	15942	HOLDER	EA	1
E-29	4	XBFZZ		1703-1-1088	15942	HOLDER	EA	1
E-29	5	XBFZZ		1703-1-1105	15942	CUSHION, RUBBER	EA	3
E-29	6	XBFZZ		1703-1-1085	15942	HOLDER	EA	1

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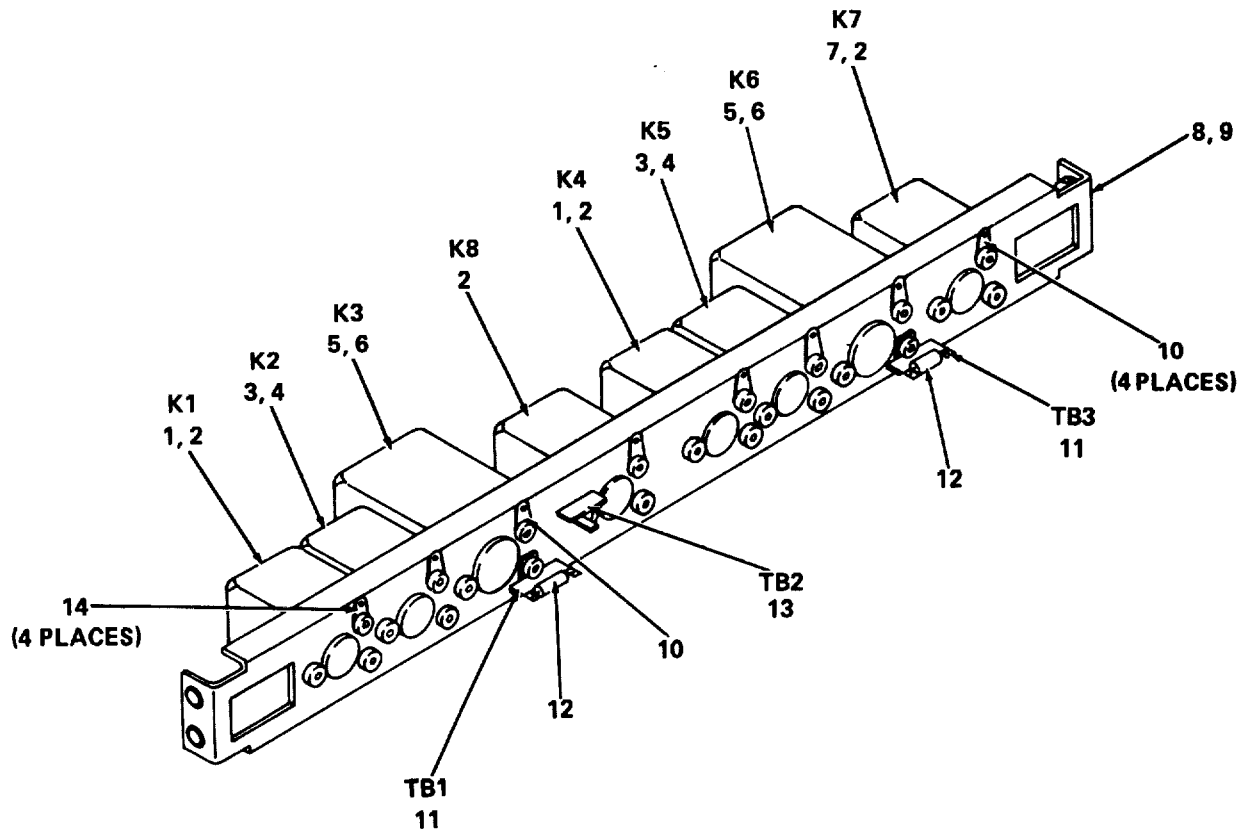


Figure E-30. Bracket Assembly 1703-1-3087

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 1104 BRACKET ASSEMBLY 1703-1-3087		
E-30	1	XBFZZ		1703-1-2149	15942	RELAY ASSEMBLY	EA	2
E-30	2	PAFZZ	5945-00-088-8236	W33HSX179	94696	RELAY, ARMATURE	EA	4
E-30	3	XBFZZ		1703-1-2150	15942	RELAY ASSEMBLY	EA	2
E-30	4	PAFZZ	5945-00-839-0318	W33HSX183	94696	RELAY, ARMATURE	EA	2
E-30	5	XBFZZ		1703-1-2151	15942	RELAY ASSEMBLY	EA	2
E-30	6	XDFZZ		W11HSK328	94696	RELAY, ARMATURE	EA	2
E-30	7	XBFZZ		1703-1-2152	15942	RELAY ASSEMBLY	EA	1
E-30	8	XBFZZ		1703-1-3073	15942	MARKING, BRACKET	EA	1
E-30	9	XBFZZ		1703-1-2007	15942	BRACKET, MOUNTING	EA	1
E-30	10	XDFZZ		2722-06-03	78189	TERMINAL, LUG	EA	4
E-30	11	PAFZZ	5940-00-329-5409	863	83330	TERMINAL BOARD	EA	2
E-30	12	PAFZZ	5905-00-141-0591	RC20G103JS	81349	RESISTOR, FIXED	EA	1
E-30	13	XDFZZ		861	83330	TERMINAL BOARD	EA	1
E-30	14	PAFZZ	5940-00-9356453	2717-04-00	78189	TERMINAL, LUG	EA	4

LEGEND

REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.
C1	1	C8	6	Q3	8	R6	9	R13	17
C2	2	CR1	7	Q4	8	R7	12	R14	18
C3	3	CR2	7	R1	9,10,11	R8	15	R15	19
C4	4	CR3	7	R2	12	R9	16	R16	20
C5	4	CR4	7	R3	13	R10	12	R17	20
C6	5	Q1	8	R4	14	R11	17		
C7	6	Q2	8	R5	9	R12	12		

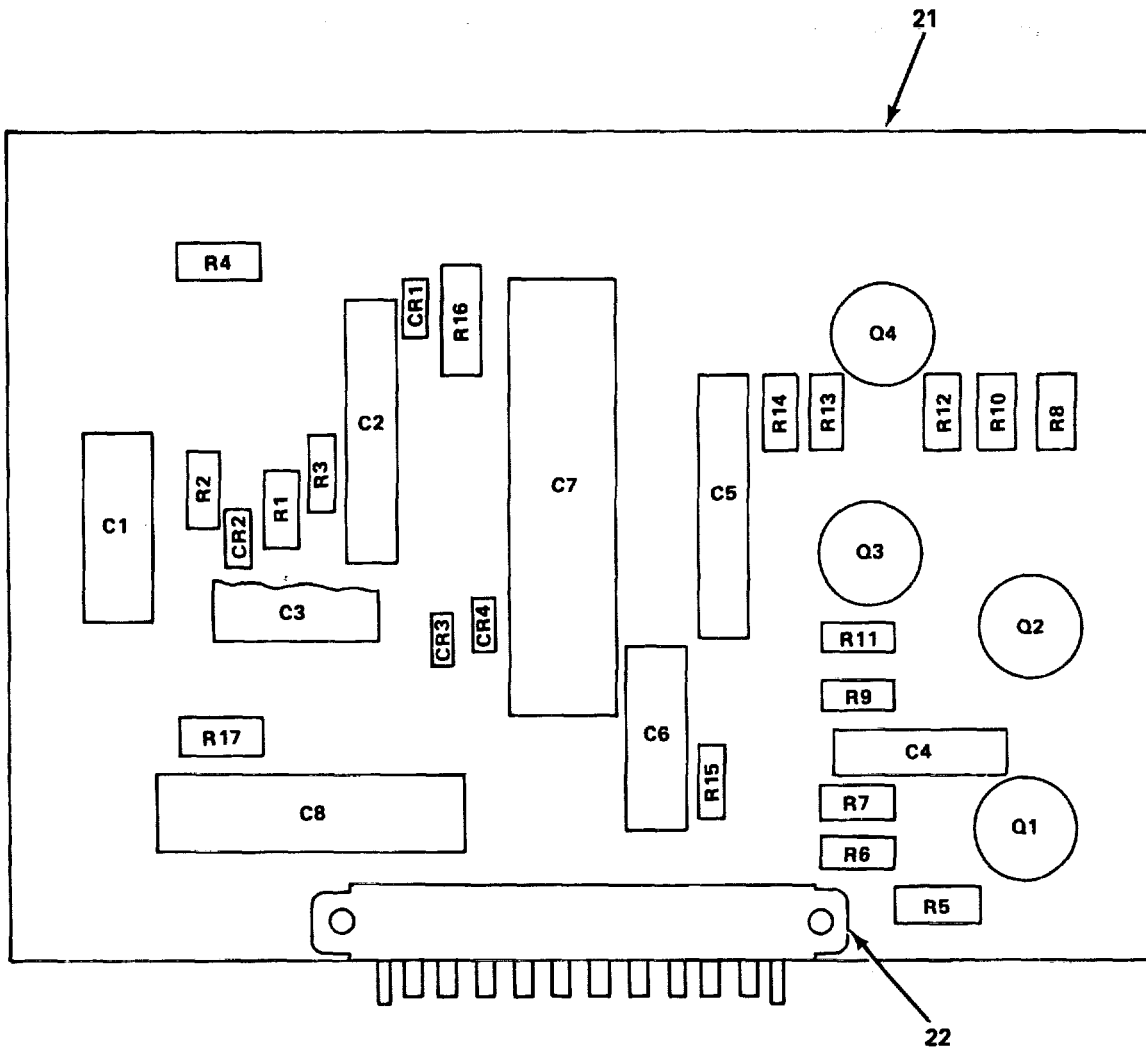


Figure E-31. Circuit Card Assembly 1703-1-3025

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 1105 CIRCUIT CARD ASSEMBLY 1703-1-3025		
E-31	1	PADZZ	5910-00403-5093	29F474G4	24446	CAPACITOR, FIXED, C1	EA	1
E-31	2	PADZZ	5910-00-010-0007	M39006/02- 2318	81349	CAPACITOR, FIXED, C2	EA	1
E-31	3	PADZZ	5910-00-085-2794	610PE	84411	CAPACITOR, FIXED, C3	EA	1
E-31	4	PADZZ	5910-00-212-3687	29F473G4	24446	CAPACITOR, FIXED C4, C5	EA	2
E-31	5	PADZZ	5910-004834387	M39006/02- 1268	81349	CAPACITOR, FIXED, C6	EA	1
E-31	6	PADZZ	5910-00-114-0712	M39006/02- 1269	81349	CAPACITOR, FIXED, C7, C8	EA	2
E-31	7	PADZZ	5961-00669-6884	JAN1N277	81349	SEMICONDUCTOR DEVICE, CR1 - CR4	EA	4
E-31	8	PADZZ	5961.00-892-3473	JAN2N526	81349	TRANSISTOR, Q1 - Q4	EA	4
E-31	9	PADZZ	5905-00-195-6761	RC20GF104J	81349	RESISTOR, FIXED, R1, R5, R6	EA	3
E-31	10	PADZZ	5905-00-106-9345	RC20GF683J	81349	RESISTOR, FIXED, R1	EA	1
E-31	11	XDDZZ		6543AA	81349	RESISTOR, VARIABLE, R1	EA	1
E-31	12	PADZZ	5905-00-141-0591	RC20GF103J	81349	RESISTOR, FIXED, R7, R10	EA	2
E-31	13	PADZZ	5905-00-190-8880	RC20GF122J	81349	RESISTOR, FIXED, R3	EA	1
E-31	14	PADZZ	5905-00-141-0595	RC20GF472J	81349	RESISTOR, FIXED, R4	EA	1
E-31	15	PADZZ	5905-00-106-1282	RC20GF223J	81349	RESISTOR, FIXED, R8	EA	1
E-31	16	PADZZ	5905-00-1114738	RC20GF152J	81349	RESISTOR, FIXED, R9	EA	1
E-31	17	PADZZ	5905-00-195-6791	RC20GF681J	81349	RESISTOR, FIXED, R11, R13	EA	2
E-31	18	PADZZ	5905-00-279-2019	RC20GF512J	81349	RESISTOR, FIXED, R14	EA	1
E-31	19	PADZZ	5905-00-279-1880	RC20GF272J	81349	RESISTOR, FIXED, R15	EA	1
E-31	20	PADZZ	5905-00-114-5361	RC20GF121J	81349	RESISTOR, FIXED, R16, R17	EA	2
E-31	21	XBDZZ		1703-1-3090	15942	TERMINAL BOARD	EA	1
E-31	22	PADZZ	5935-00-993-6905	133-010-43	02660	CONNECTOR, RECEPTACLE	EA	1

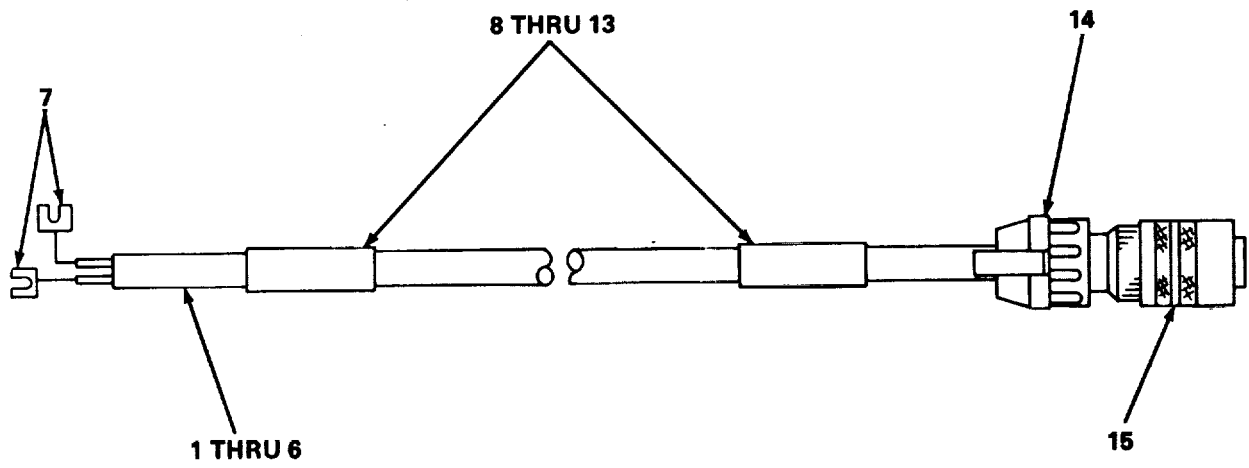


Figure E-32. Cable Assemblies 1703-1-2135 (GR1-GR6)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-32	1	XBFFF		1703-1-2135 GR1	15942	GROUP: 12 CABLE ASSEMBLIES 1703-1-2135 (GR1 -GR6) CABLE ASSEMBLY	EA	1
E-32	2	XBFFF		1703-1-2135 GR2	15942	CABLE ASSEMBLY	EA	1
E-32	3	XBFFF		1703-1-2135 GR3	15942	CABLE ASSEMBLY	EA	1
E-32	4	XBFFF		1703-1-2135 GR4	15942	CABLE ASSEMBLY	EA	1
E-32	5	XBFFF		1703-1-2135 GR5	15942	CABLE ASSEMBLY	EA	1
E-32	6	XBFFF		1703-1-2135 GR6	15942	CABLE ASSEMBLY	EA	1
E-32	7	XDFZZ		83118	92219	TERMINAL, LUG	EA	12
E-32	8	XBFZZ		1703-1-3119-	15942	BAND, CABLE 116	EA	2
E-32	9	XBFZZ		1703-1-3119- 117	15942	BAND, CABLE	EA	2
E-32	10	XBFZZ		1703-1-3119- 118	15942	BAND, CABLE	EA	2
E-32	11	XBFZZ		1703-1-3119- 119	15942	BAND, CABLE	EA	2
E-32	12	XBFZZ		1703-1-3119- 120	15942	BAND, CABLE	EA	2
E-32	13	XBFZZ		1703-1-3119- 121	15942	BAND, CABLE	EA	2
E-32	14	PAFZZ	5935-00-806-5600	MS3057-3B	96906	ADAPTER, CABLE CLAMP	EA	6
E-32	15	PAFZZ	5935-00-811-1861	MS3116E8- 3P	96906	CONNECTOR, PLUG, ELEC- TRICAL	EA	6

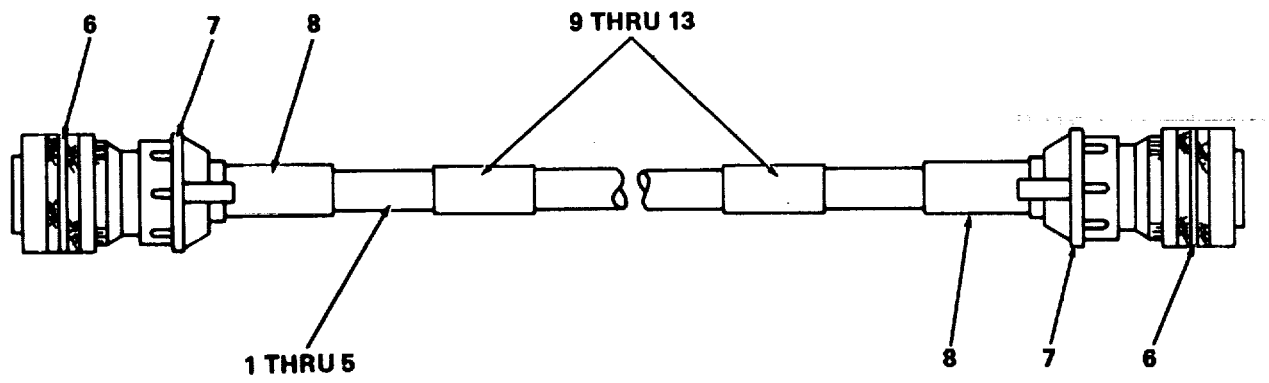


Figure E-33. Cable Assemblies 1703-1-2136 (GR-GR. S)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-33	1	XBFFF		1703-1-2136 GR1	15942	GROUP: 13 CABLE ASSEMBLIES 1703-1-2136 (GR1 - GR5) CABLE ASSEMBLY	EA	1
E-33	2	XBFFF		1703-1-2136 GR2	15942	CABLE ASSEMBLY	EA	1
E-33	3	XBFFF		1703-1-2136 GR3	15942	CABLE ASSEMBLY	EA	1
E-33	4	XBFFF		1703-1-2136 GR4	15942	CABLE ASSEMBLY	EA	1
E-33	5	XBFFF		1703-1-2136 GR5	15942	CABLE ASSEMBLY EA	1	
E-33	6	PAFZZ	5935-00-899-0554	PT06A14-15P	77820	CONNECTOR, PLUG, ELECTRICAL	EA	10
E-33	7	PAFZZ	5935-00-280-1937	MS3057-8B	96906	CLAMP, CABLE, ELECTRICAL	EA	10
E-33	8	PAFZZ	5365-00-271-7354	AN3420-8A	88044	BUSHING, RUBBER	EA	10
E-33	9	XBFZZ		1703-1-3119- 100	15942	BAND, CABLE, USED ON 1703-1-2136GR5	EA	2
E-33	10	XBFZZ		1703-1-3119- 101	15942	BAND, CABLE, USED ON 1703-1-2136GR2	EA	2
E-33	11	XBFZZ		1703-1-3119- 102	15942	BAND, CABLE, USED ON 1703-1-2136GR3	EA	2
E-33	12	XBFZZ		1703-1-3119- 103	15942	BAND, CABLE, USED ON 1703-1-2136GR1	EA	2
E-33	13	XBFZZ		1703-1-3119- 104	15942	BAND, CABLE, USED ON 1703-1-2136GR4	EA	2

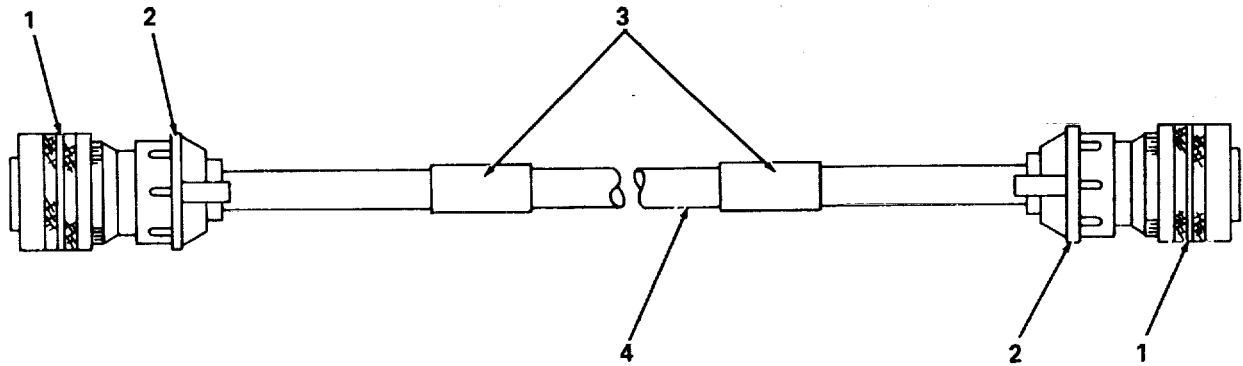


Figure E-34. Cable Assembly 1703-1-2137

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-34	1	PAFZZ	5935-00-755-3803	MS3116E84P	96906	GROUP: 14 CABLE ASSEMBLY 1703-1-2137 CONNECTOR, PLUG, ELECTRICAL	EA	2
E-34	2	PAFZZ	593-00-806-5600	MS3057-3B	96906	ADAPTER, CABLE CLAMP	EA	2
E-34	3	XBFZZ		1703-1-3119- 107	15942	BAND, CABLE	EA	2
E-34	4	XBFFF		1703-1-2137	15942	CABLE ASSEMBLY	EA	1

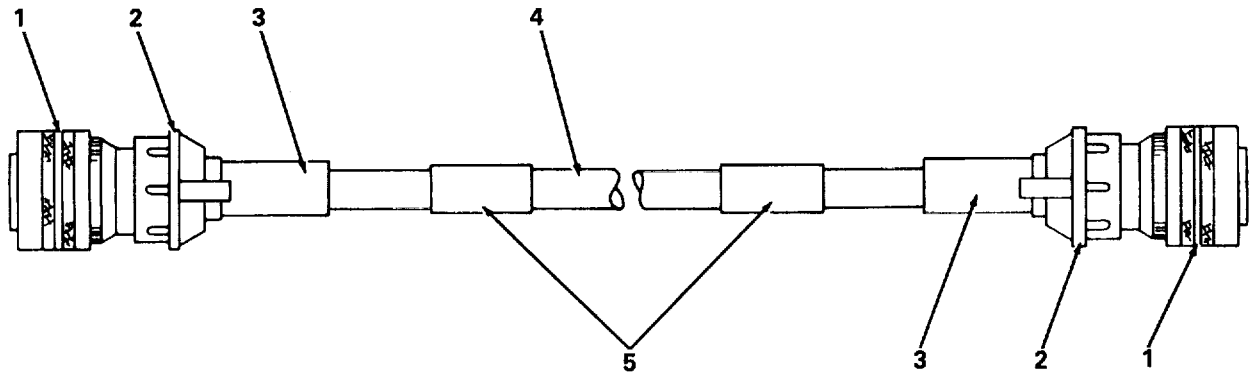


Figure E-35. Cable Assembly 1703-1-2138

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 15 CABLE ASSEMBLY 1703-1-2138		
E-35	1	PAFZZ	5935-00-899-0554	PT06A14-15P	77820	CONNECTOR, PLUG, ELECTRICAL	EA	2
E-35	2	PAFZZ	5935-00-280-1937	MS3057-8B	96906	CLAMP, CABLE, ELECTRICAL	EA	2
E-35	3	PAFZZ	5365-00-271-7354	AN3420-8A	88044	BUSHING, RUBBER	EA	2
E-35	4	XBFFF		1703-1-2138	15942	CABLE ASSEMBLY	EA	1
E-35	5	XBFZZ		1703-1-3119-106	15942	BAND, CABLE	EA	2

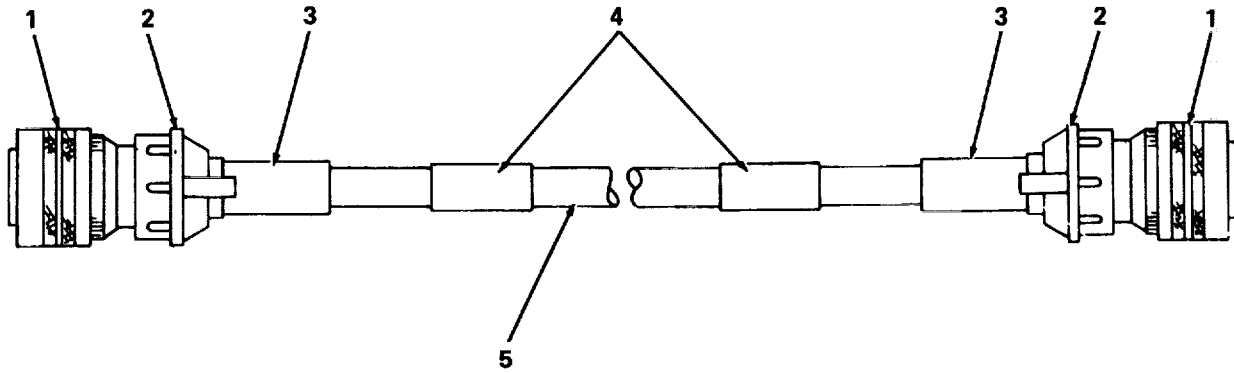


Figure E-36. Cable Assembly 1703-1-2139

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 16 CABLE ASSEMBLY 1703-1-2139		
E-36	1	PAFZZ	5935-00-899-0554	PT06A14-15P	77820	CONNECTOR, PLUG, ELECTRICAL	EA	2
E-36	2	PAFZZ	5935-00-280-1937	MS3057-8B	96906	CLAMP, CABLE, ELECTRICAL	EA	2
E-36	3	PAFZZ	5365-00-271-7354	AN3420-8A	88044	BUSHING, RUBBER	EA	2
E-36	4	XBFZZ	1703-1-3119-	15942 105		BAND, CABLE	EA	2
E-36	5	XBFFF	1703-1-2139	15942		CABLE ASSEMBLY	EA	1

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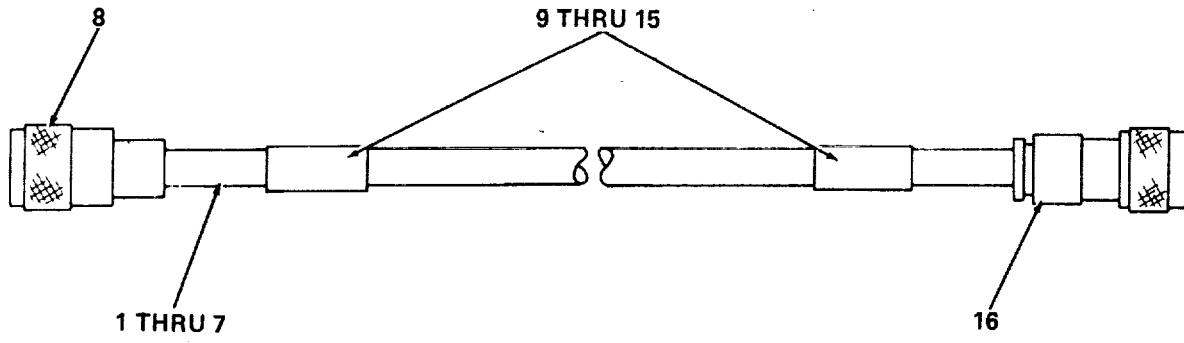


Figure E-37. Cable Assemblies 1703-1-2140(GR1-GR 7)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 17 CABLE ASSEMBLIES 1703-1-2140 (GR1 - GR7)		
E-37	1	XBFFF		1703-1-2140 GR1	15942	CABLE ASSEMBLY	EA	1
E-37	2	XBFFF		1703-1-2140 GR2	15942	CABLE ASSEMBLY	EA	1
E-37	3	XBFFF		1703-1-2140 GR3	15942	CABLE ASSEMBLY	EA	1
E-37	4	XBFFF		1703-1-2140 GR4	15942	CABLE ASSEMBLY	EA	1
E-37	5	XBFFF		1703-1-2140 GR5	15942	CABLE ASSEMBLY	EA	1
E-37	6	XBFFF		1703-1-2140 CR6	15942	CABLE ASSEMBLY	EA	1
E-37	7	XBFFF		1703-1-2140 GR7	15942	CABLE ASSEMBLY	EA	1
E-37	8	PAFZZ	5935-00-500-5183	PL259	80063	CONNECTOR, PLUG, ELECTRICAL	EA	7
E-37	9	XBFZZ		1702-1-3119- 57	15942	BAND, CABLE, USED ON 1703-1-2140GR1	EA	2
E-37	10	XBFZZ		1703-1-3119- 62	15942	BAND, CABLE, USED ON 1703-1-2140GR2	EA	2
E-37	11	XBFZZ		1703-1-3119- 63	15942	BAND, CABLE, USED ON 1703-1-2140GR3	EA	2
E-37	12	XBFZZ		1703-1-3119- 61	15942	BAND, CABLE, USED ON 1703-1-2140GR4	EA	2
E-37	13	XBFZZ		1703-1-3119- 60	15942	BAND, CABLE, USED ON 1703-1-2140GR5	EA	2
E-37	14	XBFZZ		1703-1-3119- 59	15942	BAND, CABLE, USED ON 1703-1-2140GR6	EA	2
E-37	15	XBFZZ		1703-1-3119- 58	15942	BAND, CABLE, USED ON 1703-1-2140GR7	EA	2
E-37	16	PAFZZ	5935-00-838-8419	M39012/06- 0002	81349	CONNECTOR, PLUG, ELECTRICAL	EA	7

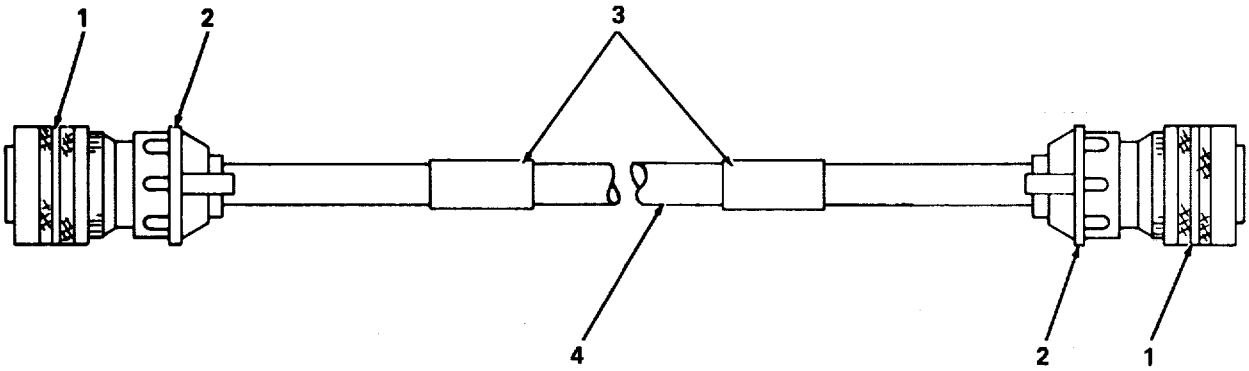


Figure E-38. Cable Assembly 1703-1-2141

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-38	1	PAFZZ	5935-00-755-3803	MS3116E8-4P	96906	GROUP: 18 CABLE ASSEMBLY 1703-1-2141 CONNECTOR, PLUG, ELECTRICAL	EA	1
E-38	2	PAFZZ	5935-00-806-5600	MS3057-3B	96906	ADAPTER, CABLE CLAMP	EA	1
E-38	3	XBFZZ		1703-1-3119- 122	15942	BAND, CABLE	EA	2
E-38	4	XBFFF		1703-1-2141	15942	CABLE ASSEMBLY	EA	1

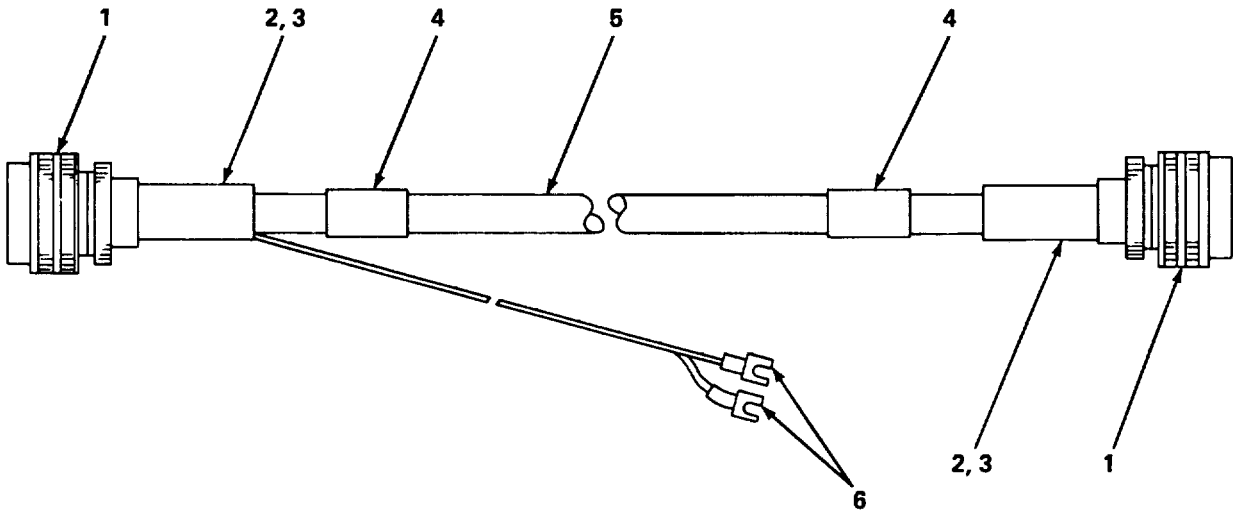


Figure E-39. Cable Assembly 1703-1-2142

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-39	1	PAFZZ	5935-00-577-8604	67-06C22-67P	02660	GROUP: 19 CABLE ASSEMBLY 1703-1-2142 CONNECTOR, PLUG, ELECTRICAL	EA	12
E-39	2	PAFZZ	5365-00-141-6944	MS390564	96906	BUSHING, RUBBER	EA	12
E-39	3	PAFZZ	5365-00-598-5416	MS3420-12	96906	BUSHING, RUBBER	EA	12
E-39	4	XBFZZ		1703-1-3119-123	15942	BAND, CABLE	EA	4
E-39	5	XBFFF		1703-1-2141	15942	CABLE ASSEMBLY	EA	4
E-39	6	XDFZZ		B-3118	92219	TERMINAL, LUG	EA	16

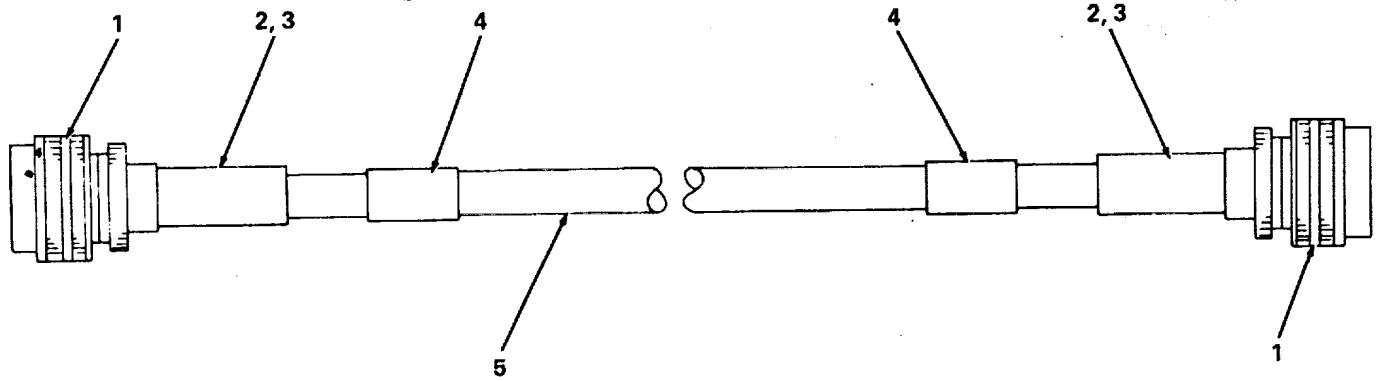


Figure E-40. Cable Assembly 1703-1-2143

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 20' CABLE ASSEMBLY 1703-1-2143		
E-40	1	PAFZZ	5935-00-577-8604	67-06C22-67P	02660	CONNECTOR, PLUG, ELECTRICAL	EA	12
E-40	2	PAFZZ	5365-00-141-6944	MS39056-4	96906	BUSHING, RUBBER	EA	12
E-40	3	PAFZZ	5365-00-598-5416	MS3420-12	96906	BUSHING, RUBBER	EA	12
E-40	4	XBFZZ		1703-1-3119-124	15942	BAND, CABLE	EA	2
E-40	5	XBFFF		1703-1-2143	15942	CABLE ASSEMBLY	EA	8

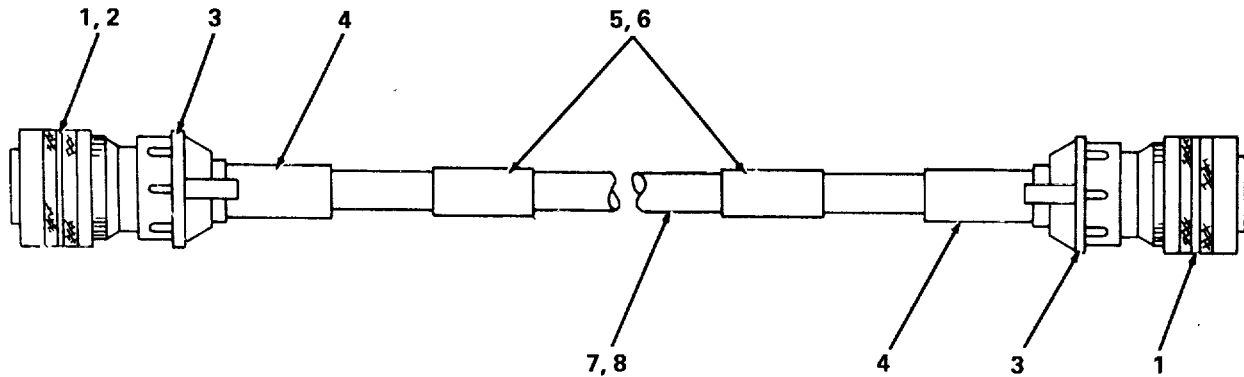


Figure E-41. Cable Assemblies 1703-1-3007 (GR1-GR2)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-41	1	PAFZZ	5935-00-704-5916	PT06A24-61P	77820	GROUP: 21 CABLE ASSEMBLIES 1703-1-3007 (GR1 - GR2)		
E-41	1	PAFZZ	5935-00-704-5916	PT06A24-61P	77820	CONNECTOR, PLUG, ELECTRICAL (GR1)	EA	2
E-41	1	PAFZZ	5935-00-704-5916	PT06A24-61P	77820	CONNECTOR, PLUG, ELECTRICAL (GR2)	EA	1
E41	2	PAFZZ	5935-00-704-5933	PT06A24-61S	77820	CONNECTOR, PLUG, ELECTRICAL (GR2)	EA	1
E-41	3	PAFZZ	5935-00-280-1935	MS3057-16B	96906	ADAPTER, CABLE CLAMP	EA	4
E41	4	PAFZZ	5365-00-598-5379	MS39057-7	96906	BUSHING, RUBBER	EA	4
E-41	5	XBFZZ		1703-1-1185-1	15942	BAND, CABLE	EA	2
E-41	6	XBFZZ		1703-1-1185-2	15942	BAND, CABLE	EA	2
E41	7	PAFFF	5995-00-182-2855	1703-1-3007 GR1	15942	CABLE ASSEMBLY	EA	1
E-41	8	PAFFF	599500-182-2856	1703-1-3007 GR2	15942	CABLE ASSEMBLY	EA	1

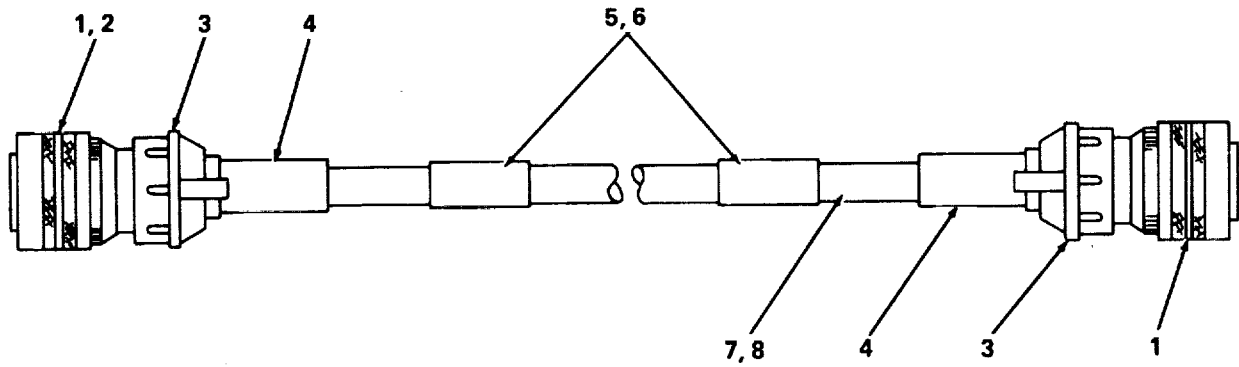


Figure E-42. Cable Assemblies 1703-1-3009 (GR1-GR2)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-42	1	PAFZZ	5935-00-899-0554	PT06A14-15P	77820	GROUP: 22 CABLE ASSEMBLIES 1703-1-3009 (GR1 -GR2)		
E-42	1	PAFZZ	5935-00-899-0554	PT06A14-15P	77820	CONNECTOR, PLUG, ELECTRICAL (GR1)	EA	2
E-42	1	PAFZZ	5935-00-899-0554	PT06A14-15P	77820	CONNECTOR, PLUG, ELECTRICAL (GR2)	EA	1
E-42	2	PAFZZ	5935-00-716-6755	PT06A14-15S	77820	CONNECTOR, PLUG, ELECTRICAL (GR2)	EA	1
E-42	3	PAFZZ	5935-00-280-1937	MS3057-8B	96906	CLAMP, CABLE, ELECTRICAL	EA	4
E-42	4	PAFZZ	5365-00-271-7354	AN3420-8A	88044	BUSHING, RUBBER	EA	4
E-42	5	XBFZZ		1703-1-1185-3	15942	BAND, CABLE	EA	2
E-42	6	XBFZZ		1703-1-1185-4	15942	BAND, CABLE	EA	2
E-42	7	PAFFF	5995-004514924	1703-1-3009 GR1	15942	CABLE ASSEMBLY	EA	1
E-42	8	PAFFF	5995-00451-4925	1703-1-3009 GR2	15942	CABLE ASSEMBLY	EA	1

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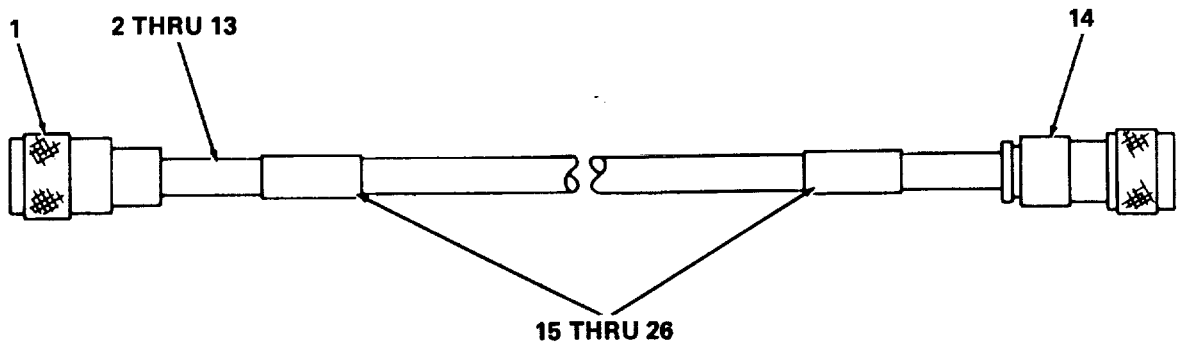


Figure E-43. Cable Assemblies 1703-1-3128 (GR1-GR12)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-43	1	PAFZZ	5935-00-500-5183	PL259	80063	GROUP: 23 CABLE ASSEMBLIES 1703-1-3128 (GR1 - GR12) CONNECTOR, PLUG, ELECTRICAL	EA	12
E-43	2	XBFFF		1703-1-3128 GR1	15942	CABLE ASSEMBLY	EA	1
E-43	3	XBFFF		1703-1-3128 GR2	15942	CABLE ASSEMBLY	EA	1
E-43	4	XBFFF		1703-1-3128 GR3	15942	CABLE ASSEMBLY	EA	1
E-43	5	XBFFF		1703-1-3128 GR4	15942	CABLE ASSEMBLY	EA	1
E-43	6	XBFFF		1703-1-3128 GR5	15942	CABLE ASSEMBLY	EA	1
E-43	7	XBFFF		1703-1-3128 GR6	15942	CABLE ASSEMBLY	EA	1
E-43	8	XBFFF		1703-1-3128 GR7	15942	CABLE ASSEMBLY	EA	1
E-43	9	XBFFF		1703-1-3128 GR8	15942	CABLE ASSEMBLY	EA	1
E-43	10	XBFFF		1703-1-3128 GR9	15942	CABLE ASSEMBLY	EA	1
E-43	11	XBFFF		1703-1-3128 GR10	15942	CABLE ASSEMBLY	EA	1
E-43	12	XBFFF		1703-1-3128 GR11	15942	CABLE ASSEMBLY	EA	1
E-43	13	XBFFF	1703-1-3128 GR12	15942	CABLE ASSEMBLY	EA	1	
E-43	14	PAFZZ	5935-00892-9863	UG21C/U	81350	CONNECTOR, PLUG, ELECTRICAL	EA	12
E-43	15	XBFZZ		1703-1-3119- 45	15942	BAND, CABLE, USED ON 1703-1-3128GR1	EA	2
E-43	16	XBFZZ		1703-1-3119- 47	15942	BAND, CABLE, USED ON 1703-1-3128GR2	EA	2
E-43	17	XBFZZ		1703-1-3119- 49	15942	BAND, CABLE, USED ON 1703-1-3128GR3	EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-43	18	XBFZZ		1703-1-3119-51	15942	BAND, CABLE, USED ON 1703-1-3128GR4	EA	2
E-43	19	XBFZZ		1703-1-3119-46		BAND, CABLE, USED ON 1703-1-3128GR5	EA	2
E-43	20	XBFZZ		1703-1-3119-53	15942	BAND, CABLE, USED ON 1703-1-3128GR6	EA	2
E-43	21	XBFZZ		1703-1-3119-48	15942	BAND, CABLE, USED ON 1703-1-3128GR7	EA	2
E-43	22	XBFZZ		1703-1-3119-55	15942	BAND, CABLE, USED ON 1703-1-3128GR8	EA	2
E-43	23	XBFZZ		1703-1-3119-50	15942	BAND, CABLE, USED ON 1703-1-3128GR9	EA	2
E-43	24	XBFZZ		1703-1-3119-52	15942	BAND, CABLE, USED ON 1703-1-3128GR10	EA	2
E-43	25	XBFZZ		1703-1-3119-54	15942	BAND, CABLE, USED ON 1703-1-3128GR11	EA	2
E-43	26	XBFZZ		1703-1-3119-56	15942	BAND, CABLE, USED ON 1703-1-3128GR12	EA	2

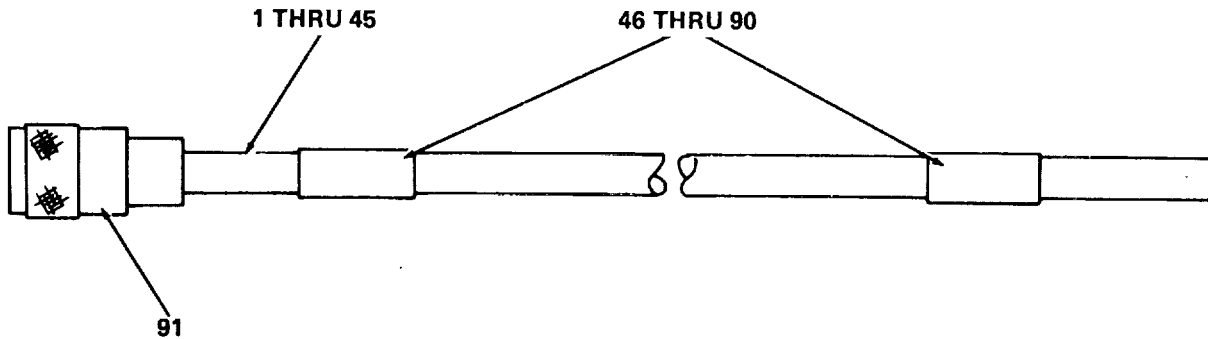


Figure E-44. Cable Assemblies 1703-1-3129 (GR1-GR45)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-44	1	XBFFF		1703-1-3129 GR1	15942	GROUP: 24 CABLE ASSEMBLIES 1703-1-3129 (GR1 -GR45) CABLE ASSEMBLY	EA	1
E-44	2	XBFFF		1703-1-3129 GR2	15942	CABLE ASSEMBLY	EA	1
E-44	3	XBFFF		1703-1-3129 GR3	15942	CABLE ASSEMBLY	EA	1
E-44	4	XBFFF		1703-1-3129 GR4	15942	CABLE ASSEMBLY	EA	1
E-44	5	XBFFF		1703-1-3129 GR5	15942	CABLE ASSEMBLY	EA	1
E-44	6	XBFFF		1703-1-3129 GR6	15942	CABLE ASSEMBLY	EA	1
E-44	7	XBFFF		1703-1-3129 GR7	15942	CABLE ASSEMBLY	EA	1
E-44	8	XBFFF		1703-1-3129 GR8	15942	CABLE ASSEMBLY	EA	1
E-44	9	XBFFF		1703-1-3129 GR9	15942	CABLE ASSEMBLY	EA	1
E-44	10	XBFFF		1703-1-3129 GR10	15942	CABLE ASSEMBLY	EA	1
E-44	11	XBFFF		1703-1-3129 GR11	15942	CABLE ASSEMBLY	EA	1
E-44	12	XBFFF		1703-1-3129 GR12	15942	CABLE ASSEMBLY	EA	1
E-44	13	XBFFF		1703-1-3129 GR13	15942	CABLE ASSEMBLY	EA	1
E-44	14	XBFFF		1703-1-3129 GR14	15942	CABLE ASSEMBLY	EA	1
E-44	15	XBFFF		1703-1-3129 GR15	15942	CABLE ASSEMBLY	EA	2
E-44	16	XBFFF		1703-1-3129 GR16	15942	CABLE ASSEMBLY	EA	1
E-44	17	XBFFF		1703-1-3129 GR17	15942	CABLE ASSEMBLY	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-44	18	XBFFF		1703-1-3129 GR18	15942	CABLE ASSEMBLY	EA	1
E-44	19	XBFFF		1703-1-3129 GR19	15942	CABLE ASSEMBLY	EA	1
E-44	20	XBFFF		1703-1-3129 GR20	15942	CABLE ASSEMBLY	EA	1
E-44	21	XBFFF		1703-1-3129 GR21	15942	CABLE ASSEMBLY	EA	1
E-44	22	XBFFF		1703-1-3129 GR22	15942	CABLE ASSEMBLY	EA	1
E-44	23	XBFFF		1703-1-3129 GR23	15942	CABLE ASSEMBLY	EA	1
E-44	24	XBFFF		1703-1-3129 GR24	15942	CABLE ASSEMBLY	EA	1
E-44	25	XBFFF		1703-1-3129 GR25	15942	CABLE ASSEMBLY	EA	1
E-44	26	XBFFF		1703-1-3129 GR26	15942	CABLE ASSEMBLY	EA	1
E-44	27	XBFFF		1703-1-3129 GR27	15942	CABLE ASSEMBLY	EA	1
E-44	28	XBFFF		1703-1-3129 GR28	15942	CABLE ASSEMBLY	EA	1
E-44	29	XBFFF		1703-1-3129 GR29	15942	CABLE ASSEMBLY	EA	1
E-44	30	XBFFF		1703-1-3129 GR30	15942	CABLE ASSEMBLY	EA	1
E-44	31	XBFFF		1703-1-3129 GR31	15942	CABLE ASSEMBLY	EA	1
E-44	32	XBFFF		1703-1-3129 GR32	15942	CABLE ASSEMBLY	EA	1
E-44	33	XBFFF		1703-1-3129 GR33	15942	CABLE ASSEMBLY	EA	1
E-44	34	XBFFF		1703-1-3129 GR34	15942	CABLE ASSEMBLY	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-44	35	XBFFF		1703-1-3129 GR35	15942	CABLE ASSEMBLY	EA	1
E-44	36	XBFFF		1703-1-3129 GR36	15942	CABLE ASSEMBLY	EA	1
E-44	37	XBFFF		1703-1-3129 GR37	15942	CABLE ASSEMBLY	EA	1
E-44	38	XBFFF		1703-1-3129 GR38	15942	CABLE ASSEMBLY	EA	1
E-44	39	XBFFF		1703-1-3129 GR39	15942	CABLE ASSEMBLY	EA	1
E-44	40	XBFFF		1703-1-3129 GR40	15942	CABLE ASSEMBLY	EA	1
E-44	41	XBFFF		1703-1-3129 GR41	15942	CABLE ASSEMBLY	EA	1
E-44	42	XBFFF		1703-1-3129 GR42	15942	CABLE ASSEMBLY	EA	1
E-44	43	XBFFF		1703-1-3129 GR43	15942	CABLE ASSEMBLY	EA	1
E-44	44	XBFFF		1703-1-3129 GR44	15942	CABLE ASSEMBLY	EA	1
E-44	45	XBFFF		1703-1-3129 GR45	15942	CABLE ASSEMBLY	EA	1
E-44	46	XBFZZ		1703-1-3119-8	15942	BAND, CABLE, USED ON 1703-1-3129GR1	EA	2
E-44	47	XBFZZ		1703-1-3119- 11	15942	BAND, CABLE, USED ON 1703-1-3129GR2	EA	2
E-44	48	XBFZZ		1703-1-3119-7	15942	BAND, CABLE, USED ON 1703-1-3129GR3	EA	2
E-44	49	XBFZZ		1703-1-3119-4	15942	BAND, CABLE, USED ON 1703-1-3129GR4	EA	2
E-44	50	XBFZZ		1703-1-3119-6	15942	BAND, CABLE, USED ON 1703-1-3129GR5	EA	2
E-44	51	XBFZZ		1703-1-3119- 10	15942	BAND, CABLE, USED ON 1703-1-3129GR6	EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-44	52	XBFZZ		1703-1-3119-3	15942	BAND, CABLE, USED ON 1703-1-3129GR7	EA	2
E-44	53	XBFZZ		1703-1-3119-5	15942	BAND, CABLE, USED ON 1703-1-3129GR8	EA	2
E-44	54	XBFZZ		1703-1-3119-9	15942	BAND, CABLE, USED ON 1703-1-3129GR9	EA	2
E-44	55	XBFZZ		1703-1-3119-2	15942	BAND, CABLE, USED ON 1703-1-3129GR10	EA	2
E-44	56	XBFZZ		1703-1-3119-1	15942	BAND, CABLE, USED ON 1703-1-3129GR11	EA	2
E-44	57	XBFZZ		1703-1-3119- 12	15942	BAND, CABLE, USED ON 1703-1-3129GR12	EA	2
E-44	58	XBFZZ		1703-1-3119- 13	15942	BAND, CABLE, USED ON 1703-1-3129GR13	EA	2
E-44	59	XBFZZ		1703-1-3119- 14	15942	BAND, CABLE, USED ON 1703-1-3129GR14	EA	2
E-44	60	XBFZZ		1703-1-3119- 15	15942	BAND, CABLE, USED ON 1703-1-3129GR15	EA	2
E-44	61	XBFZZ		1703-1-3119- 16	15942	BAND, CABLE, USED ON 1703-1-3129GR16	EA	2
E-44	62	XBFZZ		1703-1-3119- 17	15942	BAND, CABLE, USED ON 1703-1-3129GR17	EA	2
E-44	63	XBFZZ		1703-1-3119- 18	15942	BAND, CABLE, USED ON 1703-1-3129GR18	EA	2
E-44	64	XBFZZ		1703-1-3119- 19	15942	BAND, CABLE, USED ON 1703-1-3129GR19	EA	2
E-44	65	XBFZZ		1703-1-3119- 20	15942	BAND, CABLE, USED ON 1703-1-3129GR20	EA	2
E-44	66	XBFZZ		1703-1-3119- 21	15942	BAND, CABLE, USED ON 1703-1-3129GR21	EA	2
E-44	67	XBFZZ		1703-1-3119 22	15942	BAND, CABLE, USED ON 1703-1-3129GR22	EA	2
E-44	68	XBFZZ		1703-1-3119- 23	15942	BAND, CABLE, USED ON 1703-1-3129GR23	EA	2
E-44	69	XBFZZ		1703-1-3119- 24	15942	BAND, CABLE, USED ON 1703-1-3129GR24	EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-44	70	XBFZZ		1703-1-3119-25	15942	BAND, CABLE, USED ON 1703-1-3129GR25	EA	2
E-44	71	XBFZZ		1703-1-3119-26	15942	BAND, CABLE, USED ON 1703-1-3129GR26	EA	2
E-44	72	XBFZZ		1703-1-3119-27	15942	BAND, CABLE, USED ON 1703-1-3129GR27	EA	2
E-44	73	XBFZZ		1703-1-3119-28	15942	BAND, CABLE, USED ON 1703-1-3129GR28	EA	2
E-44	74	XBFZZ		1703-1-3119-29	15942	BAND, CABLE, USED ON 1703-1-3129GR29	EA	2
E-44	75	XBFZZ		1703-1-3119-30	15942	BAND, CABLE, USED ON 1703-1-3129GR30	EA	2
E-44	76	XBFZZ		1703-1-3119-31	15942	BAND, CABLE, USED ON 1703-1-3129GR31	EA	2
E-44	77	XBFZZ		1703-1-3119-32	15942	BAND, CABLE, USED ON 1703-1-3129GR32	EA	2
E-44	78	XBFZZ		1703-1-3119-33	15942	BAND, CABLE, USED ON 1703-1-3129GR33	EA	2
E-44	79	XBFZZ		1703-1-3119-34	15942	BAND, CABLE, USED ON 1703-1-3129GR34	EA	2
E-44	80	XBFZZ		1703-1-3119-35	15942	BAND, CABLE, USED ON 1703-1-3129GR35	EA	2
E-44	81	XBFZZ		1703-1-3119-36	15942	BAND, CABLE, USED ON 1703-1-3129GR36	EA	2
E-44	82	XBFZZ		1703-1-3119-37	15942	BAND, CABLE, USED ON 1703-1-3129GR37	EA	2
E-44	83	XBFZZ		1703-1-3119-38	15942	BAND, CABLE, USED ON 1703-1-3129GR38	EA	2
E-44	84	XBFZZ		1703-1-3119-39	15942	BAND, CABLE, USED ON 1703-1-3129GR39	EA	2
E-44	85	XBFZZ		1703-1-3119-40	15942	BAND, CABLE, USED ON 1703-1-3129GR40	EA	2
E-44	86	XBFZZ		1703-1-3119-41	15942	BAND, CABLE, USED ON 1703-1-3129GR41	EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-44	87	XBFZZ		1703-1-3119-42	15942	BAND, CABLE, USED ON 1703-1-3129GR42	EA	2
E-44	88	XBFZZ		1703-1-3119-43	15942	BAND, CABLE, USED ON 1703-1-3129GR43	EA	2
E-44	89	XBFZZ		1703-1-3119-44	15942	BAND, CABLE, USED ON 1703-1-3129GR44	EA	2
E-44	90	XBFZZ		1703-1-3119-45	15942	BAND, CABLE, USED ON 1703-1-3129GR45	EA	2
E-44	91	PAFZZ	5935-00-500-5183	PL259	80063	CONNECTOR, PLUG, ELECTRICAL	EA	45

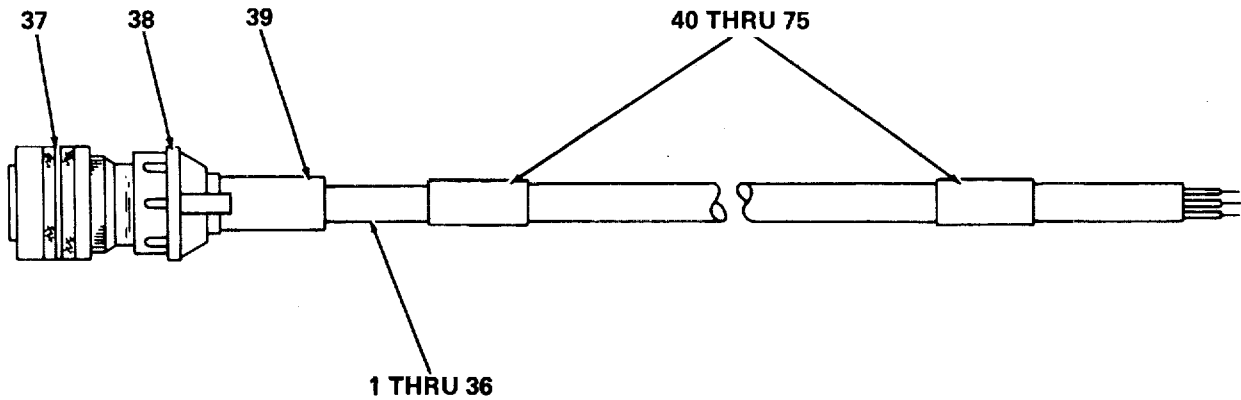


Figure E-45. Cable Assemblies 1703-1-3130 (GR1-GR36)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-45	1	XBFFF		1703-1-3130 GR1	15942	GROUP: 25 CABLE ASSEMBLIES 1703-1-3130 (GRI -GR36) CABLE ASSEMBLY	EA	1
E-45	2	XBFFF		1703-1-3130 GR2	15942	CABLE ASSEMBLY	EA	1
E-45	3	XBFFF		1703-1-3130 GR3	15942	CABLE ASSEMBLY	EA	1
E-45	4	XBFFF		1703-1-3130 GR4	15942	CABLE ASSEMBLY	EA	1
E-45	5	XBFFF		1703-1-3130 GR5	15942	CABLE ASSEMBLY	EA	1
E-45	6	XBFFF		1703-1-3130 GR6	15942	CABLE ASSEMBLY	EA	1
E-45	7	XBFFF		1703-1-3130 GR7	15942	CABLE ASSEMBLY	EA	1
E-45	8	XBFFF		1703-1-3130 GR8	15942	CABLE ASSEMBLY	EA	1
E-45	9	XBFFF		1703-1-3130 GR9	15942	CABLE ASSEMBLY	EA	1
E-45	10	XBFFF		1703-1-3130 GR10	15942	CABLE ASSEMBLY	EA	1
E-45	11	XBFFF		1703-1-3130 GR11	15942	CABLE ASSEMBLY	EA	1
E-45	12	XBFFF		1703-1-3130 GR12	15942	CABLE ASSEMBLY	EA	1
E-45	13	XBFFF		1703-1-3130 GR13	15942	CABLE ASSEMBLY	EA	1
E-45	14	XBFFF		1703-1-3130 GR14	15942	CABLE ASSEMBLY	EA	1
E-45	15	XBFFF		1703-1-3130 GR15	15942	CABLE ASSEMBLY	EA	1
E-45	16	XBFFF		1703-1-3130 GR16	15942	CABLE ASSEMBLY	EA	1
E-45	17	XBFFF		1703-1-3130 GR17	15942	CABLE ASSEMBLY	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-45	18	XBFFF		1703-1-3130 GR18	15942	CABLE ASSEMBLY	EA	1
E-45	19	XBFFF		1703-1-3130 GR19	15942	CABLE ASSEMBLY	EA	1
E-45	20	XBFFF		1703-1-3130 GR20	15942	CABLE ASSEMBLY	EA	1
E-45	21	XBFFF		1703-1-3130 GR21	15942	CABLE ASSEMBLY	EA	1
E-45	22	XBFFF		1703-1-3130 GR22	15942	CABLE ASSEMBLY	EA	1
E-45	23	XBFFF		1703-1-3130 GR23	15942	CABLE ASSEMBLY	EA	1
E-45	24	XBFFF		1703-1-3130 GR24	15942	CABLE ASSEMBLY	EA	1
E-45	25	XBFFF		1703-1-3130 GR25	15942	CABLE ASSEMBLY	EA	1
E-45	26	XBFFF		1703-1-3130 GR26	15942	CABLE ASSEMBLY	EA	1
E-45	27	XBFFF		1703-1-3130 GR27	15942	CABLE ASSEMBLY	EA	1
E-45	28	XBFFF		1703-1-3130 GR28	15942	CABLE ASSEMBLY	EA	1
E-45	29	XBFFF		1703-1-3130 GR29	15942	CABLE ASSEMBLY	EA	1
E-45	30	XBFFF		1703-1-3130 GR30	15942	CABLE ASSEMBLY	EA	1
E-45	31	XBFFF		1703-1-3130 GR31	15942	CABLE ASSEMBLY	EA	1
E-45	32	XBFFF		1703-1-3130 GR32	15942	CABLE ASSEMBLY	EA	1
E-45	33	XBFFF		1703-1-3130 GR33	15942	CABLE ASSEMBLY	EA	1
E-45	34	XBFFF		1703-1-3130 GR34	15942	CABLE ASSEMBLY	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-45	35	XBFFF		1703-1-3130 GR35	15942	CABLE ASSEMBLY	EA	1
E-45	36	XBFFF		1703-1-3130 GR36	15942	CABLE ASSEMBLY	EA	1
E-45	37	PAFZZ	5935-00-899-0554	PT06A14-15SP	77820	CONNECTOR, PLUG, ELECTRICAL	EA	36
E-45	38	PAFZZ	5935-00-280-1937	MS3057-8B	96906	CLAMP, CABLE, ELECTRICAL	EA	36
E-45	39	PAFZZ	5365-00-271-7354	AN3420-8A	88044	BUSHING, RUBBER	EA	36
E-45	40	XBFZZ		1703-1-3119- 64	15942	BAND, CABLE, USED ON 1703-1-3130GR1	EA	2
E-45	41	XBFZZ		1703-1-3119- 65	15942	BAND, CABLE, USED ON 1703-1-3130GR2	EA	2
E-45	42	XBFZZ		1703-1-3119- 66	15942	BAND, CABLE, USED ON 1703-1-3130GR3	EA	2
E-45	43	XBFZZ		1703-1-3119- 67	15942	BAND, CABLE, USED ON 1703-1-3130GR4	EA	2
E-45	44	XBFZZ		1703-1-3119- 68	15942	BAND, CABLE, USED ON 1703-1-3130GR5	EA	2
E-45	45	XBFZZ		1703-1-3119- 69	15942	BAND, CABLE, USED ON 1703-1-3130GR6	EA	2
E-45	46	XBFZZ		1703-1-3119- 70	15942	BAND, CABLE, USED ON 1703-1-3130GR7	EA	2
E-45	47	XBFZZ		1703-1-3119- 71	15942	BAND, CABLE, USED ON 1703-1-3130GR8	EA	2
E-45	48	XBFZZ		1703-1-3119- 72	15942	BAND, CABLE, USED ON 1703-1-3130GR9	EA	2
E-45	49	XBFZZ		1703-1-3119- 73	15942	BAND, CABLE, USED ON 1703-1-3130GR10	EA	2
E-45	50	XBFZZ		1703-1-3119- 74	15942	BAND, CABLE, USED ON 1703-1-3130GR11	EA	2
E-45	51	XBFZZ		1703-1-3119- 75	15942	BAND, CABLE, USED ON 1703-1-3130GR12	EA	2
E-45	52	XBFZZ		1703-1-3119- 76	15942	BAND, CABLE, USED ON 1703-1-3130GR13	EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-45	53	XBFZZ		1703-1-3119-77	15942	BAND, CABLE, USED ON 1703-1-3130GR14	EA	2
E-45	54	XBFZZ		1703-1-3119-78	15942	BAND, CABLE, USED ON 1703-1-3130GR15	EA	2
E-45	55	XBFZZ		1703-1-3119-79	15942	BAND, CABLE, USED ON 1703-1-3130GR16	EA	2
E-45	56	XBFZZ		1703-1-3119-80	15942	BAND, CABLE, USED ON 1703-1-3130GR17	EA	2
E-45	57	XBFZZ		1703-1-3119-81	15942	BAND, CABLE, USED ON 1703-1-3130GR18	EA	2
E-45	58	XBFZZ		1703-1-3119-82	15942	BAND, CABLE, USED ON 1703-1-3130GR19	EA	2
E-45	59	XBFZZ		1703-1-3119-83	15942	BAND, CABLE, USED ON 1703-1-3130GR20	EA	2
E-45	60	XBFZZ		1703-1-3119-84	15942	BAND, CABLE, USED ON 1703-1-3130GR21	EA	2
E-45	61	XBFZZ		1703-1-3119-85	15942	BAND, CABLE, USED ON 1703-1-3130GR22	EA	2
E-45	62	XBFZZ		1703-1-3119-86	15942	BAND, CABLE, USED ON 1703-1-3130GR23	EA	2
E-45	63	XBFZZ		1703-1-3119-87	15942	BAND, CABLE, USED ON 1703-1-3130GR24	EA	2
E-45	64	XBFZZ		1703-1-3119-88	15942	BAND, CABLE, USED ON 1703-1-3130GR25	EA	2
E-45	65	XBFZZ		1703-1-3119-89	15942	BAND, CABLE, USED ON 1703-1-3130GR26	EA	2
E-45	66	XBFZZ		1703-1-3119-90	15942	BAND, CABLE, USED ON 1703-1-3130GR27	EA	2
E-45	67	XBFZZ		1703-1-3119-91	15942	BAND, CABLE, USED ON 1703-1-3130GR28	EA	2
E-45	68	XBFZZ		1703-1-3119-92	15942	BAND, CABLE, USED ON 1703-1-3130GR29	EA	2
E-45	69	XBFZZ		1703-1-3119-93	15942	BAND, CABLE, USED ON 1703-1-3130GR30	EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-45	70	XBFZZ		1703-1-3119-94	15942	BAND, CABLE, USED ON 1703-1-3130GR31	EA	2
E-45	71	XBFZZ		1703-1-3119-95	15942	BAND, CABLE, USED ON 1703-1-3130GR32	EA	2
E-45	72	XBFZZ		1703-1-3119-96	15942	BAND, CABLE, USED ON 1703-1-3130GR33	EA	2
E-45	73	XBFZZ		1703-1-3119-97	15942	BAND, CABLE, USED ON 1703-1-3130GR34	EA	2
E-45	74	XBFZZ		1703-1-3119-98	15942	BAND, CABLE, USED ON 1703-1-3130GR35	EA	2
E-45	75	XBFZZ		1703-1-3119-99	15942	BAND, CABLE, USED ON 1703-1-3130GR36	EA	2

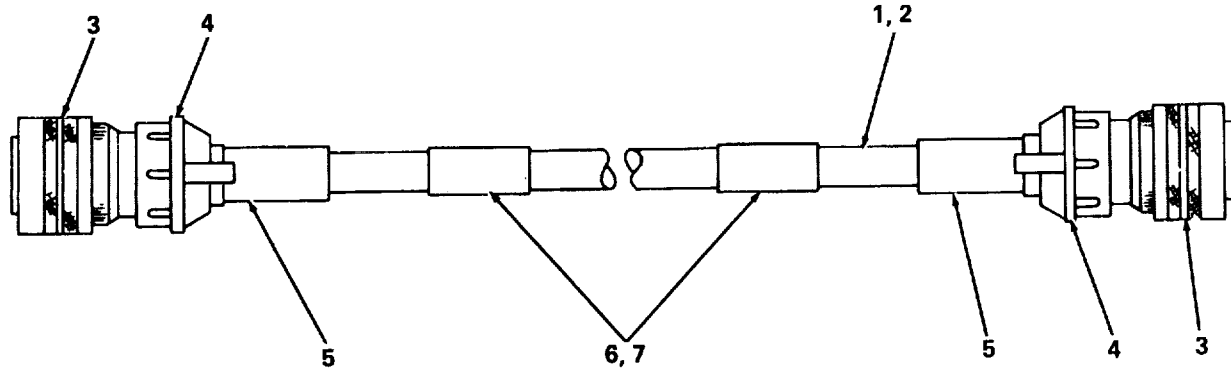


Figure E-46. Cable Assemblies 1703-1-3131 (GR1-GR2)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-46	1	XBFFF		1703-1-3131 GR1	15942	GROUP: 26 CABLE ASSEMBLIES 1703-1-3131 (GR1-GR2) CABLE ASSEMBLY	EA	1
E-46	2	XBFFF		1703-1-3131 GR2	15942	CABLE ASSEMBLY	EA	1
E-46	3	PAFZZ	5935-00-704-5916	PIT6A24-61P	77820	CONNECTOR, PLUG, ELECTRICAL	EA	4
E-46	4	PAFZZ	5935-W0-280-1935	MS3057-16B	96906	ADAPTER, CABLE CLAMP	EA	4
E-46	5	PAFZZ	5365-00-598-5379	MS39057-7	96906	BUSHING, RUBBER	EA	4
E-46	6	XBFZZ		1703-1-3119- 114	15942	BAND, CABLE, USED ON 1703-1-3131GR1	EA	2
E-46	7	XBFZZ		1703-1-3119- 115	15942	BAND, CABLE, USED ON 1703-1-3131GR2	EA	2

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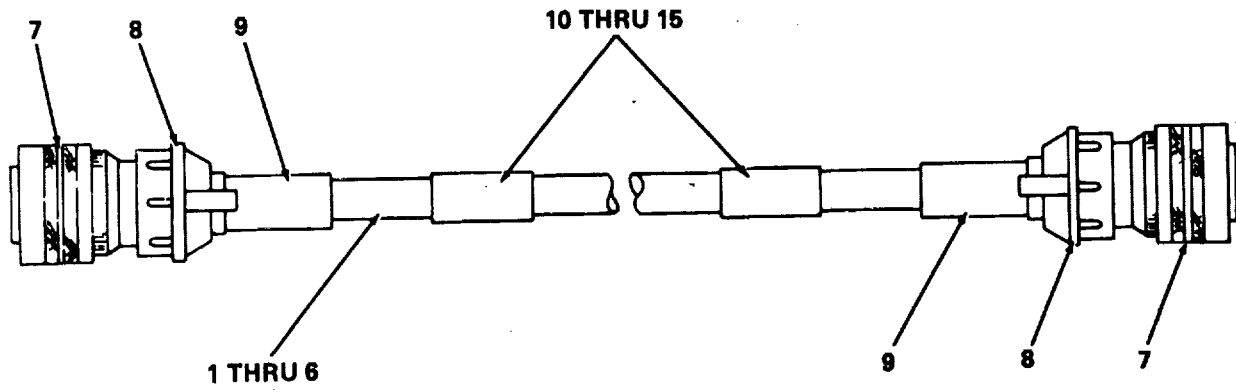


Figure E-47. Cable Assemblies 1703-1-3132 (GR1-GR6)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
E-47	1	XBFFF		1703-1-3132 GR1	15942	GROUP: 27 CABLE ASSEMBLIES 1703-1-3132 (GR1-GR6) CABLE ASSEMBLY	EA	1
E-47	2	XBFFF		1703-1-3132 GR2	15942	CABLE ASSEMBLY	EA	1
E-47	3	XBFFF		1703-1-3132 GR3	15942	CABLE ASSEMBLY	EA	1
E-47	4	XBFFF		1703-1-3132 GR4	15942	CABLE ASSEMBLY	EA	1
E-47	5	XBFFF		1703-1-3132 GR5	15942	CABLE ASSEMBLY	EA	1
E-47	6	XBFFF		1703-1-3132 GR6	15942	CABLE ASSEMBLY	EA	1
E-47	7	PAFZZ	5935-00-704-5916	PT06A24-61P	77820	CONNECTOR, PLUG, ELECTRICAL	EA	12
E-47	8	PAFZZ	5935-00-280-1935	MS3057-16B	96906	ADAPTER, CABLE CLAMP	EA	12
E-47	9	PAFZZ	5365SK-598-5379	MS39057-7	96906	BUSHING, RUBBER	EA	12
E-47	10	XBFZZ		1703-1-3119- 108	15942	BAND, CABLE, USED ON 1703-1-3132GR1	EA	2
E-47	11	XBFZZ		1703-1-3119- 109	15942	BAND, CABLE, USED ON 1703-1-3132GR2	EA	2
E-47	12	XBFZZ		1703-1-3119- 110	15942	BAND, CABLE, USED ON 1703-1-3132GR3	EA	2
E-47	13	XBFZZ		1703-1-3119- 111	15942	BAND, CABLE, USED ON 1703-1-3132GR4	EA	2
E-47	14	XBFZZ		1703-1-3119- 112	15942	BAND, CABLE, USED ON 1703-1-3132GR5	EA	2
E-47	15	XBFZZ		1703-1-3119- 113	15942	BAND, CABLE, USED ON 1703-1-3132GR6	EA	2

Section III. SPECIAL TOOLS LIST

(Not Applicable)

E-123

SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER	NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER
5910-00-010-0007	E-31	2	5905-00-190-8880	E-31	13
5310-00-013-4524	E-6	6	5935-00-192-4894	E-4	13
5310-00-013-4524	E-8	2	5310-00-193-7577	E-4	4
5310-00-013-4524	E-9	8	5310-00-193-7577	E-6	7
5985-00-020-2738	E-1	5	5310-00-193-7577	E-8	3
5305-00-043-6638	E-8	17	5310-00-193-7577	E-9	9
5305-00-043-6638	E-9	10	5310-00-193-7577	E-9	20
5935-00-044-4145	E-4	1	5905-00-195-6761	E-31	9
5935-00-044-4145	E-26	29	5905-00-195-6791	E-31	17
5961-00-052-5138	E-13	5	5905-00-195-6806	E-22	9
5961-00-052-5138	E-18	13	5935-00-201-5209	E-25	14
5961-00-052-5138	E-19	9	5910-00-212-3687	E-31	4
5961-00-052-5138	E-20	1	5940-00-248-1718	E-18	15
5961-00-052-5138	E-27	9	5940-00-248-1718	E-20	12
5910-00-059-2439	E-18	8	5940-00-248-1718	E-27	13
6210-00-070-3878	E-26	20	5905-00-252-4018	E-8	6
6210-00-085-0659	E-26	16	5905-00-252-4018	E-22	5
5910-00-085-2794	E-31	3	5905-00-252-5434	E-7	20
5935-00-087-0053	E-12	11	6210-00-257-1172	E-1	26
5945-00-088-8236	E-11	16	6210-00-257-1172	E-16	34
5945-00-088-8236	E-30	2	6210-00-257-1176	E-16	31
5905-00-106-1282	E-31	15	6210-00-257-1184	E-2	11
5905-00-106-9345	E-31	10	6210-00-257-1184	E-16	23
5905-00-111-4738	E-31	16	6210-00-257-1195	E-2	10
5910-00-114-0712	E-31	6	6210-00-257-1198	E-2	9
5905-00-114-5361	E-31	20	6210-00-257-1201	E-2	8
6210-00-118-7344	E-26	19	6210-00-257-1204	E-2	7
5905-00-141-0591	E-30	12	6210-00-257-1212	E-2	5
5905-00-141-0591	E-31	12	5940-00-257-5669	E-16	32
5905-00-141-0595	E-31	14	5935-00-259-0823	E-11	6
5905-00-141-1168	E-28	5	5935-00-259-0823	E-16	8
5365-00-141-6944	E-39	2	5935-00-259-0823	E-26	25
5365-00-141-6944	E-40	2	5365-00-271-7354	E-33	8
5975-00-144-0471	E-4	20	5365-00-271-7354	E-35	3
5940-00-155-7287	E-18	26	5365-00-271-7354	E-36	3
5940-00-155-7685	E-13	4	5365-00-271-7354	E-42	4
5940-00-155-7685	E-18	9	5365-00-271-7354	E-45	39
5940-00-155-7685	E-19	5	5325-00-276-6195	E-12	14
5999-00-177-1700	E-20	10	5325-00-276-6195	E-17	7
5999-00-177-1700	E-27	11	5325-00-276-6195	E-26	23
5940-00-177-7973	E-15	8	5905-00-279-1686	E-14	17
5940-00-177-7973	E-16	51	5905-00-279-1880	E-7	19
5995-00-182-2855	E-41	7	5905-00-279-1880	E-31	19
5995-00-182-2856	E-41	8	5905-00-279-2019	E-31	18
5965-00-185-0145	E-11	43	5905-00-279-3504	E-7	14

NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER	NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER
5935-00-280-1935	E-41	3	5930-00-454-8978	E-16	42
5935-00-280-1935	E-46	4	5930-00-454-8979	E-16	24
5935-00-280-1935	E-47	8	5930-00-454-8980	E-16	35
5935-00-280-1937	E-33	7	5930-00-454-8981	E-16	37
5935-00-280-1937	E-35	2	5950-00-454-8982	E-19	10
5935-00-280-1937	E-36	2	5930-00-454-8983	E-15	33
5935-00-280-1937	E-42	3	5945-00-461-2431	E-11	42
5935-00-280-1937	E-45	38	5950-00-465-0238	E-20	6
5920-00-280-8342	E-12	13	5950-00-465-0238	E-27	19
5920-00-280-8342	E-17	5	5910-00-469-8556	E-21	13
5920-00-280-8342	E-26	27	5910-00-483-4387	E-31	5
6240-00-295-1617	E-11	30	5935-00-500-5183	E-37	8
6240-00-295-1617	E-15	36	5935-00-500-5183	E-43	1
6240-00-295-1617	E-16	30	5935-00-500-5183	E-44	91
5905-00-299-2051	E-18	22	5940-00-502-6457	E-12	7
5905-00-299-2054	E-9	19	5940-00-502-6457	E-13	28
5940-00-329-5409	E-13	22	5945-00-504-3877	E-16	2
5940-00-329-5409	E-14	14	5950-00-537-4980	E-24	11
5940-00-329-5409	E-27	22	5950-00-537-4980	E-25	11
5940-00-329-5409	E-28	4	5820-00-538-7555	E-1	2
5940-00-329-5409	E-30	11	5930-00-553-6009	E-11	32
5930-00-333-7808	E-26	18	5930-00-553-6009	E-16	45
5325-00-350-6674	E-18	28	5305-00-558-3667	E-8	16
5935-00-377-8032	E-11	3	5305-00-558-3667	E-9	7
5940-00-377-8035	E-11	41	5305-00-558-4889	E-4	3
7410-00-377-8196	E-11	2	5305-00-558-4889	E-13	34
5910-00-403-5093	E-31	1	5935-00-577-8583	E-26	33
5305-00-405-8960	E-14	13	5935-00-577-8604	E-39	1
5815-00-407-2834	E-6	1	5935-00-577-8604	E-40	1
5815-00-407-2834	E-6	1	5930-00-577-8611	E-26	17
5815-00-407-2834	E-14	5	5310-00-579-5554	E-21	3
5815-00-407-2834	E-26	6	5940-00-583-7741	E-27	10
5935-00-419-1567	E-23	23	5320-00-584-9078	E-21	5
5935-00-419-1567	E-24	13	5365-00-598-5379	E-41	4
5935-00-419-1567	E-25	13	5365-00-598-5379	E-46	5
5995-00-423-2556	E-11	5	5365-00-598-5379	E-47	9
5995-00-423-2556	E-16	6	5365-00-598-5416	E-39	3
5995-00-423-2556	E-26	24	5365-00-598-5416	E-40	3
5965-00-432-2608	E-2	1	5310-00-605-8837	E-4	17
5905-00-446-0151	E-7	17	5310-00-605-8837	E-6	9
5905-00-446-0151	E-22	10	5310-00-605-8837	E-8	11
5995-00-451-4924	E-42	7	5305-00-620-8158	E-21	1
5995-00-451-4925	E-42	8	5305-00-638-3438	E-8	1
5895-00-454-5409	E-15	28	5305-00-638-3438	E-18	19
5930-00-454-8977	E-16	39	5950-00-642-1788	E-20	5

NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER	NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER
5961-00-669-6884	E-31	7	5910-00-836-2668	E-22	2
5940-00-682-2477	E-11	29	5935-00-837-5967	E-23	22
5940-00-682-2477	E-12	1	5935-00-837-5967	E-24	14
5330-00-686-0978	E-4	14	5935-00-838-8419	E-37	16
5935-00-686-9523	E-23	20	5945-00-839-0318	E-18	30
5310-00-687-6293	E-8	14	5945-00-839-0318	E-30	4
5310-00-687-6293	E-9	6	5935-00-847-4641	E-18	1
5310-00-687-6293	E-21	2	5905-00-853-4122	E-22	6
5935-00-704-5916	E-41	1	5935-00-880-4628	E-12	9
5935-00-704-5916	E-41	1	5935-00-880-4628	E-15	10
5935-00-704-5916	E-46	3	5935-00-880-4628	E-17	6
5935-00-704-5916	E-47	7	5935-00-880-4628	E-23	19
5935-00-704-5933	E-41	2	5935-00-880-4628	E-24	17
7590-00-714-9827	E-26	22	5965-00-892-3353	E-26	34
5935-00-716-6755	E-42	2	5961-00-892-3473	E-31	8
5935-00-755-3803	E-34	1	5935-00-892-9863	E-43	14
5935-00-755-3803	E-38	1	5975-00-897-5598	E-15	35
5340-00-782-8737	E-4	16	5935-00-899-0554	E-33	6
5930-00-787-2931	E-11	33	5935-00-899-0554	E-35	1
5930-00-787-2931	E-16	29	5935-00-899-0554	E-36	1
5905-00-793-8971	E-7	16	5935-00-899-0554	E-42	1
5905-00-793-8977	E-7	15	5935-00-899-0554	E-42	1
5905-00-793-8995	E-7	18	5935-00-899-0554	E-45	37
5905-00-793-8997	E-8	7	7935-00-899-9361	E-25	17
5950-00-796-0127	E-13	12	6145-00-900-0259	E-4	21
5950-00-796-0127	E-18	20	5935-00-901-1531	E-23	18
5905-00-798-1708	E-7	12	5935-00-901-1531	E-24	16
5920-00-803-3144	E-17	4	5961-00-902-1177	E-22	4
5920-00-803-3144	E-26	26	5930-00-913-2983	E-26	15
5930-00-804-3696	E-16	25	5945-00-925-9114	E-15	5
5935-00-806-5600	E-3	2	5940-00-926-0030	E-23	4
5935-00-806-5600	E-32	14	5940-00-926-0030	E-24	5
5935-00-806-5600	E-34	2	5940-00-926-0030	E-25	5
5935-00-806-5600	E-38	2	5945-00-929-7421	E-15	3
5930-00-807-9712	E-16	36	5310-00-934-9739	E-14	16
5935-00-811-1861	E-32	15	5310-00-934-9739	E-26	13
5905-00-812-4250	E-22	8	5940-00-935-6453	E-4	19
5961-00-814-4251	E-22	3	5940-00-935-6453	E-11	17
5930-00-817-7701	E-10	16	5940-00-935-6453	E-13	9
5930-00-817-7701	E-15	34	5940-00-935-6453	E-14	12
5930-00-817-7702	E-16	40	5940-00-935-6453	E-17	9
5310-00-819-4595	E-26	12	5940-00-935-6453	E-18	16
5935-00-825-8860	E-4	8	5940-00-935-6453	E-20	9
5910-00-828-2318	E-20	11	5940-00-935-6453	E-27	8
5910-00-828-2318	E-27	6	5940-00-935-6453	E-30	14

NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER	NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER
5935-00-945-7306	E-4	6	5910-00-951-5696	E-22	1
5935-00-945-7306	E-12	3	5305-00-957-6264	E-26	11
5935-00-945-7306	E-15	19	5340-00-964-2555	E-4	18
5935-00-945-7306	E-17	3	5340-00-964-2555	E-11	4
5935-00-945-7306	E-23	21	5945-00-966-9452	E-18	31
5935-00-945-7306	E-25	18	5930-00-971-9224	E-11	35
5935-00-945-7306	E-26	31	5930-00-971-9224	E-16	28
5820-00-945-8540	E-14	2	5930-00-978-7202	E-16	44
5920-00-945-8541	E-11	19	5935-00-989-3793	E-11	28
5805-00-945-8549	E-1	1	5935-00-989-3793	E-16	33
5805-00-945-8549	E-1	1	5935-00-989-3793	E-26	14
5805-00-945-8549	E-1	1	5935-00-993-6905	E-31	22
5945-00-945-9962	E-18	29	5305-00-995-6653	E-6	5
5920-00-947-3254	E-18	2	5910-00-997-8327	E-18	23
5935-00-947-3255	E-1	8	5310-00-032-1119	E-4	5
5935-00-947-3258	E-1	9	5975-00-083-5209	E-26	21
5935-00-947-3259	E-1	10			

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
ANTGC14	80058	E-1	6	MS3057-16B	96906	E-47	8
AN3420-8A	88044	E-33	8	MS3057-3B	96906	E-3	2
AN3420-8A	88044	E-35	3	MS3057-3B	96906	E-32	14
AN3420-8A	88044	E-36	3	MS3057-3B	96906	E-34	2
AN3420-8A	88044	E-42	4	MS3057-3B	96906	E-38	2
AN3420-8A	88044	E-45	39	MS3057-8B	96906	E-33	7
A515-2RZ	81352	E-11	6	MS3057-8B	96906	E-35	2
A515-2RZ	81352	E-26	25	MS3057-8B	96906	E-36	2
B-3118	92219	E-39	6	MS3057-8B	96906	E-42	3
CE71/2-1/16 IN/	53021	E-18	7	MS3057-8B	96906	E-45	38
CE71/2-1/16 IN/	53021	E-13	15	MS3110E8-4S	96906	E-12	11
CE71/2-9/16 IN/	53021	E-18	25	MS3112E14-15S	96906	E-12	3
CE71C202J	81349	E-18	23	MS3112E14-15S	96906	E-15	19
CE71C901K	81349	E-18	8	MS3112E14-15S	96906	E-25	18
CL34BJ400 MP3	81349	E-27	6	MS3112E14-15S	96906	E-26	31
CL348J400M P3	81349	E-20	11	MS3112E8-3S	96906	E-4	1
CM334	71744	E-11	30	MS3112E8-3S	96906	E-26	29
CM334	71744	E-15	36	MS3116ES-3P	96906	E-32	15
CM334	71744	E-16	30	MS3116E8-4P	96906	E-34	1
CO-02HGF(2/16)0405	81349	E-5	1	MS3116E8-4P	96906	E-38	1
CP 05A1KC2 24K3	81349	E-22	2	MS3181-14C	96906	E-25	17
CS13AF100M	81349	E-22	1	MS3181-24C	96906	E-23	18
CU872AU	80058	E-1	5	MS3420-12	96906	E-39	3
C200J2-112	35344	E-18	31	MS3420-12	96906	E-40	3
DCM-2-9/16	53021	E-19	3	MS35043-103	96906	E-7	14
DHS17	07303	E-26	34	MS35043-104	96906	E-7	18
FO 2A250V1-2A	75915	E-4	10	MS35043-111	96906	E-7	12
F02A250V1A	81349	E-12	13	MS35043-119	96906	E-7	15
F02A250VIA	81349	E-17	5	MS35043-127	96906	E-22	7
F02A250VIA	81349	E-26	27	MS35043-131	96906	E-7	10
HKD	71400	E-12	12	MS35043-135	96906	E-7	9
HKP	71400	E-17	4	MS35043-135	96906	E-7	9
HKP	71400	E-26	26	MS35043-143	96906	E-22	6
JAN1N277	81349	E-31	7	MS35043-55	96906	E-8	6
JAN2N526	81349	E-31	8	MS35043-55	96906	E-22	5
KCPKRP	77342	E-18	29	MS35043-63	96906	E-22	8
KRP11D24VDC	77342	E-16	2	MS35043-65	96906	E-7	20
L3343-1	46859	E-16	32	MS35043-81	96906	E-8	7
MS157954	96906	E-4	17	MS35043-83	96906	E-7	17
MS15795-4	96906	E-6	9	MS35043-83	96906	E-22	10
MS15795-4	96906	E-8	11	MS35043-87	81349	E-22	9
MS20470A4-4	96906	E-21	5	MS35043-89	96906	E-7	13
MS21318-2	96906	E-2	3	MS35043-91	96906	E-7	16
MS3057-16B	96906	E-41	3	MS35043-95	96906	E-28	5
MS3057-16B	96906	E-46	4	MS35043-97	96906	E-7	19

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS35044-9	96906	E-9	19	MS77068-1	96906	E-11	29
MS35190-222	96906	E-6	5	MS77068-1	96906	E-12	1
MS35190-225	96906	E-26	11	MS77068-1	96906	E-12	7
MS35192-12	96906	E-8	27	MS770684	96906	E-27	10
MS35192-12	96906	E-9	22	MW-C16(26)U9	81349	E-4	21
MS35223-13	96906	E-14	13	MX1142/U	80058	E-23	23
MS35223-14	96906	E-4	3	MX1142/U	80058	E-24	13
MS35223-14	96906	E-13	34	MX1142/U	80058	E-25	13
MS35223-15	96906	E-8	1	M39006/02-1268	81349	E-31	5
MS35223-15	96906	E-18	19	M39006/02-1269	81349	E-31	6
MS35223-3	96906	E-21	1	M39006/02-2318	81349	E-31	2
MS35223-44	96906	E-10	8	M39012/06-0002	81349	E-37	16
MS35223-44	96906	E-10	10	M39022/01-1697	81349	E-21	13
MS35224-26	96906	E-8	22		15942	E-6	14
MS35224-26	96906	E-9	15		15942	E-26	12
MS35225-13	96906	E-8	17		15942	E-26	22
MS35225-13	96906	E-9	10		96906	E-13	20
MS35225-3	96906	E-8	16	PL259	80063	E-37	8
MS35225-3	96906	E-9	7	PL259	80063	E-43	1
MS35239-24	96906	E-10	14	PL259	80063	E-44	91
MS35239-36	96906	E-11	15	PT02E-14-1SS	77820	E-4	6
MS35333-35	96906	E-21	3	PT02E-84S	77820	E-4	8
MS35333-36	96906	E-4	4	PT02E14-15S	77820	E-17	3
MS35333-36	96906	E-6	7	PT02E14-15S	77820	E-23	21
MS35333-36	96906	E-8	3	PT02E24-61S	77820	E-12	9
MS35333-36	96906	E-9	9	PT02E24-61S	77820	E-15	10
MS35333-36	96906	E-9	20	PT02E24-61S	77820	E-17	6
MS35333-36	96906	E-10	13	PT02E24-61S	77820	E-23	19
MS3533742	96906	E-10	9	PT02E24-61S	77820	E-24	17
MS35649-22	96906	E-8	14	PT06A14-15P	77820	E-33	6
MS35649-22	96906	E-9	6	PT06A14-15P	77820	E-35	1
MS35649-22	96906	E-21	2	PT06A14-15P	77820	E-36	1
MS35649-242	96906	E-14	16	PT06A14-15P	77820	E-42	1
MS35649-242	96906	E-26	13	PT06A14-15P	77820	E-42	1
MS3564942	96906	E-4	5	PT06A14-15P	77820	E-45	37
MS35649-42	96906	E-6	6	PT06A14-15S	77820	E-42	2
MS35649-42	96906	E-8	2	PT06A24-61P	77820	E-41	1
MS3564942	96906	E-9	8	PT06A24-61P	77820	E-41	1
MS3564942	96906	E-10	12	PT06A24-61P	77820	E-46	3
MS39056-4	96906	E-39	2	PT06A24-61P	77820	E-47	7
MS390564	96906	E-40	2	PT06A24-61S	77820	E-41	2
MS39057-7	96906	E-41	4	PVC-105/2	92194	E-4	15
MS39057-7	96906	E-46	5	RC20GF103J	81349	E-31	12
MS39057-7	96906	E-47	9	RC20GF104J	81349	E-31	9
MS77067-1	96906	E-16	51	RC20GF121J	81349	E-31	20

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
RC20GF122J	81349	E-31	13	Z4163	76385	E-12	14
RC20GF152J	81349	E-31	16	Z4163	76385	E-17	7
RC20GF223J	81349	E-31	15	Z4163	76385	E-26	23
RC20GF272J	81349	E-31	19	0099-1-3178	15942	E-26	21
RC20GF472J	81349	E-31	14	1N1200A	81349	E-13	5
RC20GF512J	81349	E-31	18	1N1200A	81349	E-18	13
RC20GF681J	81349	E-31	17	1N1200A	81349	E-19	9
RC20GF683J	81349	E-31	10	1N1200A	81349	E-20	1
RC20G103JS	81349	E-30	12	1N1200A	81349	E-27	9
RC32GF1R2J	81349	E-27	14	1N1692	81483	E-22	3
RC32GF471J	81349	E-18	22	1PB245T	91929	E-26	17
RC32GF560J	81349	E-14	17	10-1019494	77820	E-4	2
R390AURR	80058	E-1	2	10-1019498	77820	E-4	14
SE15XC05	81349	E-23	4	10-101960-143	77820	E-23	20
T-56827	96256	E-27	23	10-101960-243	77820	E-24	16
TAF406M050 P1D	90201	E-27	12	101-12-10-044	71785	E-18	1
TA109C5B	84971	E-16	7	11	20950	E-4	13
TA530CTD158	84971	E-16	15	123001	75915	E-27	5
TM10W5R00H	02985	E-13	21	133-010-43	02660	E-31	22
TM10W5R00H	02985	E-18	21	141-1930-1471	72619	E-16	47
TM5WIR50F	02985	E-13	6	1410-10	83330	E-13	4
TM5W1R50F	02985	E-18	14	143-006-01	02660	E-18	24
TM5W1R50F	02985	E-20	2	143-010-01	02660	E-18	4
TM5W1R50F	02985	E-27	24	143-010-01	75915	E-28	6
TR107	82679	E-24	11	159942	88360	E-11	3
TR107	82679	E-25	11	159945	88360	E-11	41
TSDP0A	08538	E-15	32	1702-1-2039GR1	15942	E-13	14
T56827	96256	E-20	5	1702-1-3119-57	15942	E-37	9
UG21C/U	81350	E-43	14	1703-1-1008	15942	E-24	6
UG570/U	80058	E-23	22	1703-1-1022	15942	E-22	12
UG570/U	80058	E-24	14	1703-1-1024	15942	E-13	17
UG570/U	96906	E-25	14	1703-1-1028	15942	E-15	27
WIIHSK328	94696	E-30	6	1703-1-1029	15942	E-21	11
W33HSX179	94696	E-11	16	1703-1-1033	15942	E-23	8
W33HSX179	94696	E-30	2	1703-1-1034	15942	E-25	4
W33HSX183	94696	E-18	30	1703-1-1035	15942	E-25	8
W33HSX183	94696	E-30	4	1703-1-1048	15942	E-23	17
XLR4-31	71468	E-26	14	1703-1-1049	15942	E-23	16
XLR4-31	71468	E-11	28	1703-1-1056	15942	E-13	13
XLR4-31	71468	E-16	33	1703-1-1057	15942	E-24	12
X123001	75915	E-20	10	1703-1-1057	15942	E-25	12
X123001	75915	E-27	11	1703-1-1059	15942	E-13	24
Z-2239	96385	E-4	12	1703-1-1064	15942	E-23	6
Z1079	76385	E-18	28	1703-1-1065	15942	E-16	38
Z267	76385	E-18	27	1703-1-1066	15942	E-11	36

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1703-1-1067 GR2	15942	E-2	4	1703-1-1129	15942	E-13	19
1703-1-1075	15942	E-15	22	1703-1-1130	15942	E-13	18
1703-1-1076	15942	E-15	26	1703-1-1131	15942	E-13	25
1703-1-1082	15942	E-2	11	1703-1-1139	15942	E-10	18
1703-1-1085	15942	E-29	6	1703-1-1152	15942	E-13	29
1703-1-1086	15942	E-29	2	1703-1-1152	15942	E-14	11
1703-1-1087	15942	E-29	3	1703-1-1153 GR1	15942	E-13	26
1703-1-1088	15942	E-29	4	1703-1-1153 GR2	15942	E-13	27
1703-1-1089	15942	E-13	2	1703-1-1157	15942	E-14	6
1703-1-1089	15942	E-16	10	1703-1-1158	15942	E-23	10
1703-1-1090 GR1	15942	E-20	8	1703-1-1159	15942	E-16	3
1703-1-1090 GR1	15942	E-27	21	1703-1-1160	15942	E-23	14
1703-1-1090 GR2	15942	E-27	26	1703-1-1161	15942	E-23	3
1703-1-1091	15942	E-9	16	1703-1-1164	15942	E-19	10
1703-1-1092	15942	E-9	14	1703-1-1165	15942	E-25	6
1703-1-1093	15942	E-27	20	1703-1-1166	15942	E-18	10
1703-1-1094	15942	E-27	15	1703-1-1167	15942	E-18	17
1703-1-1095 GR1	15942	E-8	23	1703-1-1169	15942	E-15	33
1703-1-1095 GR1	15942	E-20	7	1703-1-1172	15942	E-26	28
1703-1-1095 GR2	15942	E-27	25	1703-1-1173	15942	E-19	6
1703-1-1096 GR1	15942	E-27	3	1703-1-1185-1	15942	E-41	5
1703-1-1096 GR2	15942	E-20	3	1703-1-1185-2	15942	E-41	6
1703-1-1097	15942	E-8	21	1703-1-1185-3	15942	E-42	5
1703-1-1098	15942	E-19	8	1703-1-1185-4	15942	E-42	6
1703-1-1099	15942	E-10	11	1703-1-2002	15942	E-15	31
1703-1-1104	15942	E-16	18	1703-1-2004-13	15942	E-11	26
1703-1-1105	15942	E-29	5	1703-1-2004-13	15942	E-16	34
1703-1-1107	15942	E-11	27	1703-1-2004-14	15942	E-16	31
1703-1-1107	15942	E-16	22	1703-1-2004-15	15942	E-2	11
1703-1-1108	15942	E-11	23	1703-1-2004-15	15942	E-16	23
1703-1-1109	15942	E-11	24	1703-1-2004-16	15942	E-2	10
1703-1-1109	15942	E-16	21	1703-1-2004-17	15942	E-2	9
1703-1-1110	15942	E-11	22	1703-1-2004-18	15942	E-2	8
1703-1-1111	15942	E-16	20	1703-1-2004-19	15942	E-2	7
1703-1-1112 GR1	15942	E-16	26	1703-1-2004-20	15942	E-2	5
1703-1-1112 GR2	15942	E-16	19	1703-1-2005	15942	E-24	4
1703-1-1116	15942	E-19	7	1703-1-2007	15942	E-30	9
1703-1-1123	15942	E-13	23	1703-1-2008	15942	E-24	8
1703-1-1123	15942	E-14	15	1703-1-2009	15942	E-23	13
1703-1-1124	15942	E-14	9	1703-1-2010	15942	E-15	30
1703-1-1125	15942	E-13	32	1703-1-2015	15942	E-24	10
1703-1-1127	15942	E-14	4	1703-1-2017	15942	E-23	5
1703-1-1128 GR1	15942	E-10	7	1703-1-2018	15942	E-25	9
1703-1-1128 GR2	15942	E-10	2	1703-1-2019	15942	E-11	11
1703-1-1128 GR3	15942	E-10	6	1703-1-2022	15942	E-23	9

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1703-1-2023	15942	E-15	2	1703-1-2074	15942	E-6	12
1703-1-2024	15924	E-15	24	1703-1-2074-1	15942	E-10	16
1703-1-2025	15942	E-15	1	1703-1-2074-2	15942	E-10	3
1703-1-2026	15942	E-4	11	1703-1-2074-3	15942	E-10	4
1703-1-2026-1	15942	E-5	2	1703-1-20744	15942	E-10	1
1703-1-2028	15942	E-15	7	1703-1-2075	15942	E-6	3
1703-1-2029 GR1	15942	E-16	1	1703-1-2075-1	15942	E-8	24
1703-1-2032	15942	E-15	29	1703-1-2075-10	15942	E-8	12
1703-1-2033	15942	E-11	9	1703-1-2075-11	15942	E-8	8
1703-1-2034	15942	E-11	14	1703-1-2075-12	15942	E-8	10
1703-1-2035 GR1	15942	E-26	9	1703-1-2075-13	15942	E-8	5
1703-1-2035 GR2	15942	E-26	10	1703-1-2075-14	15942	E-8	15
1703-1-2036	15942	E-27	18	1703-1-2075-2	15942	E-8	26
1703-1-2037	15942	E-28	3	1703-1-2075-3	15942	E-8	9
1703-1-2038	15942	E-29	1	1703-1-2075-4	15942	E-8	4
1703-1-2039 GR2	15942	E-18	11	1703-1-2075-5	15942	E-8	20
1703-1-2045	15942	E-16	4	1703-1-2075-6	15942	E-8	18
1703-1-2047	15942	E-27	16	1703-1-2075-7	15942	E-8	13
1703-1-2048 GR1	15942	E-27	4	1703-1-2075-8	15942	E-8	25
1703-1-2048 GR2	15942	E-20	4	1703-1-2075-9	15942	E-8	19
1703-1-2052	15942	E-15	4	1703-1-2076	15942	E-6	13
1703-1-2053	15942	E-16	12	1703-1-2080	15942	E-2	13
1703-1-2054	15942	E-11	10	1703-1-2080-1	15942	E-6	10
1702-1-2055 GR1	15942	E-16	17	1703-1-2080-2	15942	E-6	4
1703-1-2055 GR2	15942	E-16	27	1703-1-2080-3	15942	E-6	8
1703-1-2062	15942	E-19	1	1703-1-20804	15942	E-6	2
1703-1-2063	15942	E-10	5	1703-1-2081	15942	E-16	5
1703-1-2064	15942	E-11	21	1703-1-2082	15942	E-27	17
1703-1-2065	15942	E-14	10	1703-1-2084	15942	E-14	3
1703-1-2066	15942	E-14	7	1703-1-2084	15942	E-27	1
1703-1-2067	15942	E-13	11	1703-1-2090	15942	E-15	18
1703-1-2067	15942	E-18	18	1703-1-2091	15942	E-15	17
1703-1-2068	15942	E-13	33	1703-1-2096	15942	E-27	2
1703-1-2072	15942	E-6	11	1703-1-2101	15942	E-26	8
1703-1-2072-1	15942	E-9	17	1703-1-2102 GR1	15942	E-11	34
1703-1-2072-10	15942	E-9	12	1703-1-2102 GR1	15942	E-15	38
1703-1-2072-11	15942	E-9	21	1703-1-2102 GR1	15942	E-16	41
1703-1-2072-2	15942	E-9	1	1703-1-2105	15942	E-23	15
1703-1-2072-3	15942	E-9	3	1703-1-2106	15942	E-13	7
1703-1-20724	15942	E-9	4	1703-1-2109	15942	E-12	2
1703-1-2072-5	15942	E-9	13	1703-1-2110	15942	E-11	43
1703-1-2072-6	15942	E-9	2	1703-1-2111	15942	E-14	8
1703-1-2072-7	15942	E-9	5	1703-1-2113	15942	E-18	5
1703-1-2072-8	15942	E-9	18	1703-1-2118	15942	E-14	1
1703-1-2072-9	15942	E-9	11	1703-1-2119	15942	E-11	1

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1703-1-2120	15942	E-13	30	1703-1-2141	15942	E-38	4
1703-1-2121	15942	E-13	16	1703-1-2141	15942	E-39	5
1703-1-2122	15942	E-11	8	1703-1-2143	15942	E-40	5
1703-1-2123	15942	E-13	1	1703-1-2144	15942	E-12	8
1703-1-2125	15942	E-23	11	1703-1-2145	15942	E-15	16
1703-1-2126	15942	E-23	12	1703-1-2146	15942	E-15	12
1703-1-2127	15942	E-23	7	1703-1-2147	15942	E-15	11
1703-1-2128	15942	E-12	6	1703-1-2148	15942	E-15	9
1703-1-2129	15942	E-25	7	1703-1-2149	15942	E-30	1
1703-1-2130	15942	E-24	7	1703-1-2150	15942	E-30	3
1703-1-2132 GR1	15942	E-11	40	1703-1-2151	15942	E-30	5
1703-1-2132 GR2	15942	E-11	31	1703-1-2152	15942	E-30	7
1703-1-2132 GR3	15942	E-11	25	1703-1-2153	15942	E-26	32
1703-1-2133	15942	E-11	5	1703-1-2154	15942	E-26	30
1703-1-2133	15942	E-16	6	1703-1-2155	15942	E-18	12
1703-1-2133	15942	E-26	24	1703-1-2156 GR1	15942	E-10	15
1703-1-2134 GR1	15942	E-16	43	1703-1-2156 GR2	15942	E-10	17
1703-1-2134 GR2	15942	E-16	39	1703-1-2157	15942	E-2	1
1703-1-2134 GR3	15942	E-16	42	1703-1-2157-1	15942	E-3	1
1703-1-2134 GR4	15942	E-16	24	1703-1-2157-2	15942	E-3	3
1703-1-2134 GR5	15942	E-16	35	1703-1-3000	15942	E-1	3
1703-1-2134 GR6	15942	E-16	37	1703-1-3001	15942	E-1	7
1703-1-2135 GR1	15942	E-32	1	1703-1-3002	15942	E-1	11
1703-1-2135 GR2	15942	E-32	2	1703-1-3003	15942	E-1	1
1703-1-2135 GR3	15942	E-32	3	1703-1-3003-1	15942	E-2	6
1703-1-2135 GR4	15942	E-32	4	1703-1-3004	15942	E-1	8
1703-1-2135 GR5	15942	E-32	5	1703-1-3005	15942	E-1	9
1703-1-2135 GR6	15942	E-32	6	1703-1-3006	15942	E-1	10
1703-1-2136 GR1	15942	E-33	1	1703-1-3007 GR1	15942	E-41	7
1703-1-2136 GR2	15942	E-33	2	1703-1-3007 GR2	15942	E-41	8
1703-1-2136 GR3	15942	E-33	3	1703-1-3009 GR1	15942	E-42	7
1703-1-2136 GR4	15942	E-33	4	1703-1-3009 GR2	15942	E-42	8
1703-1-2136 GR5	15942	E-33	5	1703-1-3019	15942	E-13	3
1703-1-2137	15942	E-34	4	1703-1-3019	15942	E-16	9
1703-1-2138	15942	E-35	4	1703-1-3019-1	15942	E-21	14
1703-1-2139	15942	E-36	5	1703-1-3019-10	15942	E-22	13
1703-1-2140 GR1	15942	E-37	1	1703-1-3019-11	15942	E-22	11
1703-1-2140 GR2	15942	E-37	2	1703-1-3019-12	15942	E-22	14
1703-1-2140 GR3	15942	E-37	3	1703-1-3019-2	15942	E-21	15
1703-1-2140 GR4	15942	E-37	4	1703-1-3019-3	15942	E-21	4
1703-1-2140 GR5	15942	E-37	5	1703-1-3019-4	15942	E-21	12
1703-1-2140 GR6	15942	E-37	6	1703-1-3019-5	15942	E-21	6
1703-1-2140 GR7	15942	E-37	7	1703-1-3019-6	15942	E-21	8

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1703-1-3019-7	15942	E-21	7	1703-1-3079	15942	E-13	31
1703-1-3019-8	15942	E-21	10	1703-1-3080	15942	E-11	39
1703-1-3019-9	15942	E-21	9	1703-1-3081	15942	E-16	50
1703-1-3021	15942	E-1	4	1703-1-3083-2	15942	E-16	46
1703-1-3023	15942	E-15	42	1703-1-3083.4	15942	E-2	2
1703-1-3025	15942	E-6	1	1703-1-3083-5	15942	E-23	24
1703-1-3025	15942	E-14	5	1703-1-3083-6	15942	E-24	15
1703-1-3025	15942	E-26	6	1703-1-3083-7	15942	E-25	16
1703-1-3025-1	15942	E-7	21	1703-1-3083-8	15942	E-15	37
1703-1-3025-10	15942	E-7	11	1703-1-3086	15942	E-26	2
1703-1-3025-2	15942	E-7	8	1703-1-3087	15942	E-26	1
1703-1-3025-3	15942	E-7	4	1703-1-3088	15942	E-2	12
1703-1-3025-4	15942	E-7	5	1703-1-3090	15942	E-7	22
1703-1-3025-5	15942	E-7	6	1703-1-3090	15942	E-31	21
1703-1-3025-6	15942	E-7	1	1703-1-3091	15942	E-26	7
1703-1-3025-7	15942	E-7	2	1703-1-3092	15942	E-11	18
1703-1-3025-8	15942	E-7	3	1703-1-3093	15942	E-26	3
1703-1-3025-9	15942	E-7	7	1703-1-3094	15942	E-11	7
1703-1-3027	15942	E-11	38	1703-1-3095	15942	E-18	6
1703-1-3028	15942	E-15	40	1703-1-3098	15942	E-11	13
1703-1-3029	15942	E-15	39	1703-1-3100	15942	E-11	12
1703-1-3030	15942	E-16	49	1703-1-3101	15942	E-12	5
1703-1-3031	15942	E-11	19	1703-1-3103	15942	E-15	41
1703-1-3032	15942	E-18	2	1703-1-3104	15942	E-15	13
1703-1-3033	15942	E-14	2	1703-1-3104-1	15942	E-15	8
1703-1-3036	15942	E-23	2	1703-1-3105	15942	E-17	1
1703-1-3038	15942	E-11	37	1703-1-3106	15942	E-15	23
1703-1-3040	15942	E-26	5	1703-1-3106-1	15942	E-15	25
1703-1-3042	15942	E-24	2	1703-1-3106-2	15942	E-15	44
1703-1-3045	15942	E-15	21	1703-1-3106-3	15942	E-15	43
1703-1-3046	15942	E-16	13	1703-1-31064	15942	E-15	6
1703-1-3047	15942	E-25	2	1703-1-3107	15942	E-16	11
1703-1-3050	15942	E-24	9	1703-1-3108	15942	E-15	28
1703-1-3050	15942	E-25	10	1703-1-3109	15942	E-15	14
1703-1-3053	15942	E-24	3	1703-1-3110	15942	E-15	20
1703-1-3053	15942	E-25	3	1703-1-3119-1	15942	E-44	56
1703-1-3054	15942	E-17	2	1703-1-3119-10	15942	E-44	51
1703-1-3057	15942	E-18	3	1703-1-3119-100	15942	E-33	9
1703-1-3059	15942	E-19	2	1703-1-3119-101	15942	E-33	10
1703-1-3062	15942	E-15	15	1703-1-3119-102	15942	E-33	11
1703-1-3069	15942	E-11	20	1703-1-3119-103	15942	E-33	12
1703-1-3071	15942	E-4	7	1703-1-3119-104	15942	E-33	13
1703-1-3073	15942	E-30	8	1703-1-3119-105	15942	E-36	4
1703-1-3074	15942	E-26	4	1703-1-3119-106	15942	E-35	5
1703-1-3075	15942	E-28	2	1703-1-3119-107	15942	E-34	3

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1703-1-3119-108	15942	E-47	10	1703-1-3119-37	15942	E-44	82
1703-1-3119-109	15942	E-47	11	1703-1-3119-38	15942	E-44	83
1703-1-3119-11	15942	E-44	47	1703-1-3119-39	15942	E-44	84
1703-1-3119-110	15942	E-47	12	1703-1-3119-4	15942	E-44	49
1703-1-3119-111	15942	E-47	13	1703-1-3119-40	15942	E-44	85
1703-1-3119-112	15942	E-47	14	1703-1-3119-41	15942	E-44	86
1703-1-3119-113	15942	E-47	15	1703-1-3119-42	15942	E-44	87
1703-1-3119-114	15942	E-46	6	1703-1-3119-43	15942	E-44	88
1703-1-3119-115	15942	E-46	7	1703-1-3119-44	15942	E-44	89
1703-1-3119-116	15942	E-32	8	1703-1-3119-45	15942	E-43	15
1703-1-3119-117	15942	E-32	9	1703-1-3119-45	15942	E-44	90
1703-1-3119-118	15942	E-32	10	1703-1-3119-46		E-43	19
1703-1-3119-119	15942	E-32	11	1703-1-3119-47	15942	E-43	16
1703-1-3119-12	15942	E-44	57	1703-1-3119-48	15942	E-43	21
1703-1-3119-120	15942	E-32	12	1703-1-3119-49	15942	E-43	17
1703-1-3119-121	15942	E-32	13	1703-1-3119-5	15942	E-44	53
1703-1-3119-122	15942	E-38	3	1703-1-3119-50	15942	E-43	23
1703-1-3119-123	15942	E-39	4	1703-1-3119-51	15942	E-43	18
1703-1-3119-124	15942	E-40	4	1703-1-3119-52	15942	E-43	24
1703-1-3119-13	15942	E-44	58	1703-1-3119-53	15942	E-43	20
1703-1-3119-14	15942	E-44	59	1703-1-3119-54	15942	E-43	25
1703-1-3119-15	15942	E-44	60	1703-1-3119-55	15942	E-43	22
1703-1-3119-16	15942	E-44	61	1703-1-3119-56	15942	E-43	26
1703-1-3119-17	15942	E-44	62	1703-1-3119-58	15942	E-37	15
1703-1-3119-18	15942	E-44	63	1703-1-3119-59	15942	E-37	14
1703-1-3119-19	15942	E-44	64	1703-1-3119-6	15942	E-44	50
1703-1-3119-2	15942	E-44	55	1703-1-3119-60	15942	E-37	13
1703-1-3119-20	15942	E-44	65	1703-1-3119-61	15942	E-37	12
1703-1-3119-21	15942	E-44	66	1703-1-3119-62	15942	E-37	10
1703-1-3119-22	15942	E-44	67	1703-1-3119-63	15942	E-37	11
1703-1-3119-23	15942	E-44	68	1703-1-3119-64	15942	E-45	40
1703-1-3119-24	15942	E-44	69	1703-1-3119-65	15942	E-45	41
1703-1-3119-25	15942	E-44	70	1703-1-3119-66	15942	E-45	42
1703-1-3119-26	15942	E-44	71	1703-1-3119-67	15942	E-45	43
1703-1-3119-27	15942	E-44	72	1703-1-3119-68	15942	E-45	44
1703-1-3119-28	15942	E-44	73	1703-1-3119-69	15942	E-45	45
1703-1-3119-29	15942	E-44	74	1703-1-3119-7	15942	E-44	48
1703-1-3119-3	15942	E-44	52	1703-1-3119-70	15942	E-45	46
1703-1-3119-30	15942	E-44	75	1703-1-3119-71	15942	E-45	47
1703-1-3119-31	15942	E-44	76	1703-1-3119-72	15942	E-45	48
1703-1-3119-32	15942	E-44	77	1703-1-3119-73	15942	E-45	49
1703-1-3119-33	15942	E-44	78	1703-1-3119-74	15942	E-45	50
1703-1-3119-34	15942	E-44	79	1703-1-3119-75	15942	E-45	51
1703-1-3119-35	15942	E-44	80	1703-1-3119-76	15942	E-45	52
1703-1-3119-36	15942	E-44	81	1703-1-3119-77	15942	E-45	53

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1703-1-3119-78	15942	E-45	54	1703-1-3129 GR13	15942	E-44	13
1703-1-3119-79	15942	E-45	55	1703-1-3129 GR14	15942	E-44	14
1703-1-3119-8	15942	E-44	46	1703-1-3129 GR15	15942	E-44	15
1703-1-3119-80	15942	E-45	56	1703-1-3129 GR16	15942	E-44	16
1703-1-3119-81	15942	E-45	57	1703-1-3129 GR17	15942	E-44	17
1703-1-3119-82	15942	E-45	58	1703-1-3129 GR18	15942	E-44	18
1703-1-3119-83	15942	E-45	59	1703-1-3129 GR19	15942	E-44	19
1703-1-3119-84	15942	E-45	60	1703-1-3129 GR2	15942	E-44	2
1703-1-3119-85	15942	E-45	61	1703-1-3129 GR20	15942	E-44	20
1703-1-3119-86	15942	E-45	62	1703-1-3129 GR21	15942	E-44	21
1703-1-3119-87	15942	E-45	63	1703-1-3129 GR22	15942	E-44	22
1703-1-3119-88	15942	E-45	64	1703-1-3129 GR23	15942	E-44	23
1703-1-3119-89	15942	E-45	65	1703-1-3129 GR24	15942	E-44	24
1703-1-3119-9	15942	E-44	54	1703-1-3129 GR25	15942	E-44	25
1703-1-3119-90	15942	E-45	66	1703-1-3129 GR26	15942	E-44	26
1703-1-3119-91	15942	E-45	67	1703-1-3129 GR27	15942	E-44	27
1703-1-3119-92	15942	E-45	68	1703-1-3129 GR28	15942	E-44	28
1703-1-3119-93	15942	E-45	69	1703-1-3129 GR29	15942	E-44	29
1703-1-3119-94	15942	E-45	70	1703-1-3129 GR3	15942	E-44	3
1703-1-3119-95	15942	E-45	71	1703-1-3129 GR30	15942	E-44	30
1703-1-3119-96	15942	E-45	72	1703-1-3129 GR31	15942	E-44	31
1703-1-3119-97	15942	E-45	73	1703-1-3129 GR32	15942	E-44	32
1703-1-3119-98	15942	E-45	74	1703-1-3129 GR33	15942	E-44	33
1703-1-3119-99	15942	E-45	75	1703-1-3129 GR34	15942	E-44	34
1703-1-3121	15942	E-16	16	1703-1-3129 GR35	15942	E-44	35
1703-1-3122	15942	E-16	48	1703-1-3129 GR36	15942	E-44	36
1703-1-3124	15942	E-23	1	1703-1-3129 GR37	15942	E-44	37
1703-1-3126	15942	E-25	1	1703-1-3129 GR38	15942	E-44	38
1703-1-3127	15942	E-24	1	1703-1-3129 GR39	15942	E-44	39
1703-1-3128 GR1	15942	E-43	2	1703-1-3129 GR4	15942	E-44	4
1703-1-3128 GR10	15942	E-43	11	1703-1-3129 GR40	15942	E-44	40
1703-1-3128 GR11	15942	E-43	12	1703-1-3129 GR41	15942	E-44	41
1703-1-3128 GR12	15942	E-43	13	1703-1-3129 GR42	15942	E-44	42
1703-1-3128 GR2	15942	E-43	3	1703-1-3129 GR43	15942	E-44	43
1703-1-3128 GR3	15942	E-43	4	1703-1-3129 GR44	15942	E-44	44
1703-1-3128 GR4	15942	E-43	5	1703-1-3129 GR45	15942	E-44	45
1703-1-3128 GR5	15942	E-43	6	1703-1-3129 GR5	15942	E-44	5
1703-1-3128 GR6	15942	E-43	7	1703-1-3129 GR6	15942	E-44	6
1703-1-3128 GR7	15942	E-43	8	1703-1-3129 GR7	15942	E-44	7
1703-1-3128 GR8	15942	E-43	9	1703-1-3129 GR8	15942	E-44	8
1703-1-3128 GR9	15942	E-43	10	1703-1-3129 GR9	15942	E-44	9
1703-1-3129 GR1	15942	E-44	1	1703-1-3130 GR1	15942	E-45	1
1703-1-3129 GR10	15942	E-44	10	1703-1-3130 GR10	15942	E-45	10
1703-1-3129 GR11	15942	E-44	11	1703-1-3130 GR11	15942	E-45	11
1703-1-3129 GR12	15942	E-44	12	1703-1-3130 GR12	15942	E-45	12

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1703-1-3130 GR13	15942	E-45	13	2N2646	96212	E-22	4
1703-1-3130 GR14	15942	E-45	14	2PB245T	91929	E-26	18
1703-1-3130 GR15	15942	E-45	15	2027-08-00	78189	E-28	1
1703-1-3130 GR16	15942	E-45	16	2040C	88245	E-24	5
1703-1-3130 GR17	15942	E-45	17	2040C	88245	E-25	5
1703-1-3130 GR18	15942	E-45	18	204202-000	14100	E-18	26
1703-1-3130 GR19	15942	E-45	19	21F101	96256	E-20	6
1703-1-3130 GR2	15942	E-45	2	21F101	96256	E-27	19
1703-1-3130 GR20	15942	E-45	20	2101-10-02	78189	E-18	9
1703-1-3130 GR21	15942	E-45	21	2101-10-02	78189	E-19	5
1703-1-3130 GR22	15942	E-45	22	2110-06-00	78189	E-13	28
1703-1-3130 GR23	15942	E-45	23	2417-04-00	78189	E-4	19
1703-1-3130 GR24	15942	E-45	24	2417-04.00	78189	E-11	17
1703-1-3130 GR25	15942	E-45	25	2417-04-00	78189	E-13	9
1703-1-3130 GR26	15942	E-45	26	2417-04-00	78189	E-14	12
1703-1-3130 GR27	15942	E-45	27	2417-04-00	78189	E-18	16
1703-1-3130 GR28	15942	E-45	28	2417-0400	78189	E-20	9
1703-1-3130 GR29	15942	E-45	29	2417-04-00	78189	E-27	8
1703-1-3130 GR3	15942	E-45	3	2422-06-03	78189	E-19	11
1703-1-3130 GR30	15942	E-45	30	249-7872-3331-504	72619	E-26	19
1703-1-3130 GR31	15942	E-45	31	249-7872-3335-504	72619	E-26	20
1703-1-3130 GR32	15942	E-45	32	249-7872-3337-504	72619	E-26	16
1703-1-3130 GR33	15942	E-45	33	26F68	96256	E-13	12
1703-1-3130 GR34	15942	E-45	34	26F68	96256	E-18	20
1703-1-3130 GR35	15942	E-45	35	2713	83330	E-25	15
1703-1-3130 GR36	15942	E-45	36	2717-04-00	78189	E-17	9
1703-1-3130 GR4	15942	E-45	4	2717-04-00	78189	E-30	14
1703-1-3130 GR5	15942	E-45	5	2722-06-03	78189	E-17	8
1703-1-3130 GR6	15942	E-45	6	2722-06-03	78189	E-30	10
1703-1-3130 GR7	15942	E-45	7	28F682	75173	E-12	10
1703-1-3130 GR8	15942	E-45	8	28F683	75173	E-12	4
1703-1-3130 GR9	15942	E-45	9	284424	30874	E-11	2
1703-1-3131 GRI	15942	E-46	1	29F473G4	24446	E-31	4
1703-1-3131 GR2	15942	E-46	2	29F474G4	24446	E-31	1
1703-1-3132 GR1	15942	E-47	1	334430	56232	E-16	44
1703-1-3132 GR2	15942	E-47	2	342022	75915	E-4	9
1703-1-3132 GR3	15942	E-47	3	481238-6	02769	E-11	32
1703-1-3132 GR4	15942	E-47	4	52PA7B2	91929	E-11	33
1703-1-3132 GR5	15942	E-47	5	52PA7B2	91929	E-16	29
1703-1-3132 GR6	15942	E-47	6	52PA7G2	91929	E-11	35
1703-1-3139	15942	E-16	14	52PA7G2	91929	E-16	28
1703-1007	15942	E-13	10	52PA7R2	91929	E-15	35
1980-CX156	71279	E-13	8	52PA7Y2	91929	E-16	45
1980-CX156	71279	E-27	7	52PB54T2	91929	E-16	36
2M/150A	53021	E-19	4	52PB64T2	91929	E-15	34

PART NUMBER	FSCM	FIG. NO .	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
53PB8T2	91929	E-16	25	7542	90002	E-16	8
54PB8T2	91929	E-16	40	769005	15898	E-15	5
570-1992-03-01-0	71279	E-18	15	769009	11327	E-15	3
570-1992-03-01-0	71279	E-20	12	769015	30874	E-11	42
570-1992-03-01-0	71279	E-27	13	773	83330	E-4	16
6	52263	E-4	20	775	83330	E-4	18
600-003-021	A1997	E-26	15	83118	92219	E-32	7
610PE	84411	E-31	3	861	83330	E-30	13
6543AA	81349	E-31	11	863	83330	E-13	22
67-02E22-67S	02660	E-26	33	863	83330	E-14	14
67-06C22-67P	02660	E-39	1	863	83330	E-27	22
67-06C22-67P	02660	E-40	1	863	83330	E-28	4
729	71002	E-11	4	863	83330	E-30	11

APPENDIX F

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

F-1 SCOPE. This appendix lists expendable supplies and materials you will need to operate and maintain Communications Central AN/MSQ-71. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

F-2 EXPLANATION OF COLUMNS.

a. *Column 1, Item Number.* This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use lubricant, item 5, Appendix F").

b. *Column 2, Level.* This column identifies the lowest level of maintenance that requires the listed item.

- COperator/Crew
- OOrganizational maintenance
- FDirect support maintenance
- HGeneral support maintenance

DDepot maintenance

c. *Column 3, National Stock Number (NSN).* This is the NSN assigned to the item; use it to request or requisition the item.

d. *Column 4, Description.* Indicates the Federal Item name and, if required, a description to identify the item.

The last line for each item indicates the part number followed by the Federal Supply Code for Manufacturer (FSCM) in parentheses, if applicable.

e. *Column 5, Unit of Measure (U/M).* Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the U/M differs from the unit of issue, requisition the lowest unit that will satisfy your requirements.

Section II. EXPENDABLE SUPPLIES AND MATERIALS LIST

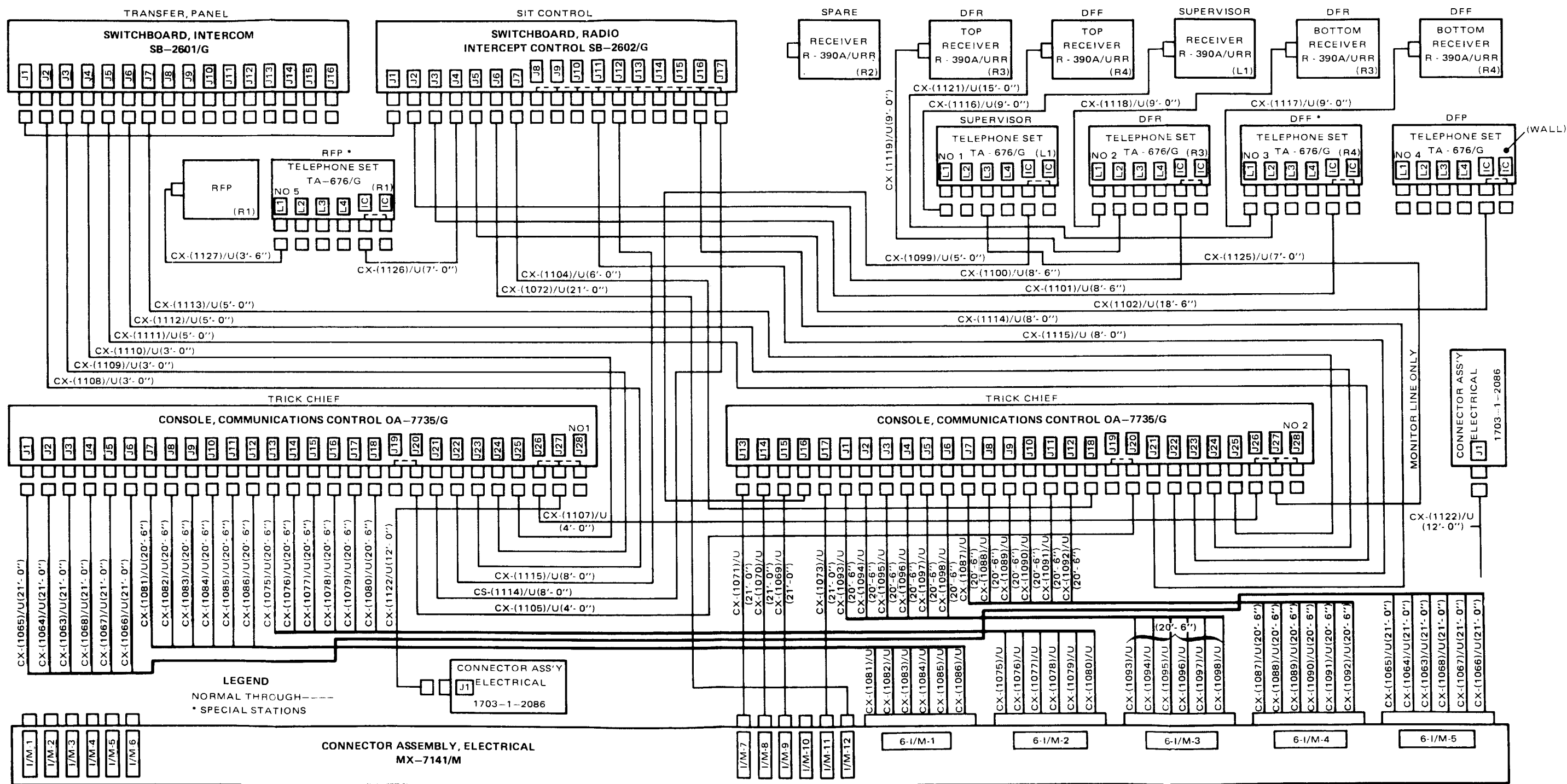
(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	O	6810-00-201-0904	ALCOHOL, DENATURED AND ETHYL	AN
2	O	6515-00-303-8250	APPLICATOR, WOOD, COTTON-TIPPED	PK
3	O	8020-00-246-8806	BRUSH, SOFT	EA
4	O	8305-00-267-3015	CLOTH, LINT-FREE	RO
5	O	9150-00-503-0325	LUBRICANT, G.C. ELECTRONICS "LUBEREX 1209"	TB
6	O	6850-00-597-9765	TRICHLOROETHANE, MIL-C-18718 (81349)	GL

By Order of the Secretary of the Army:

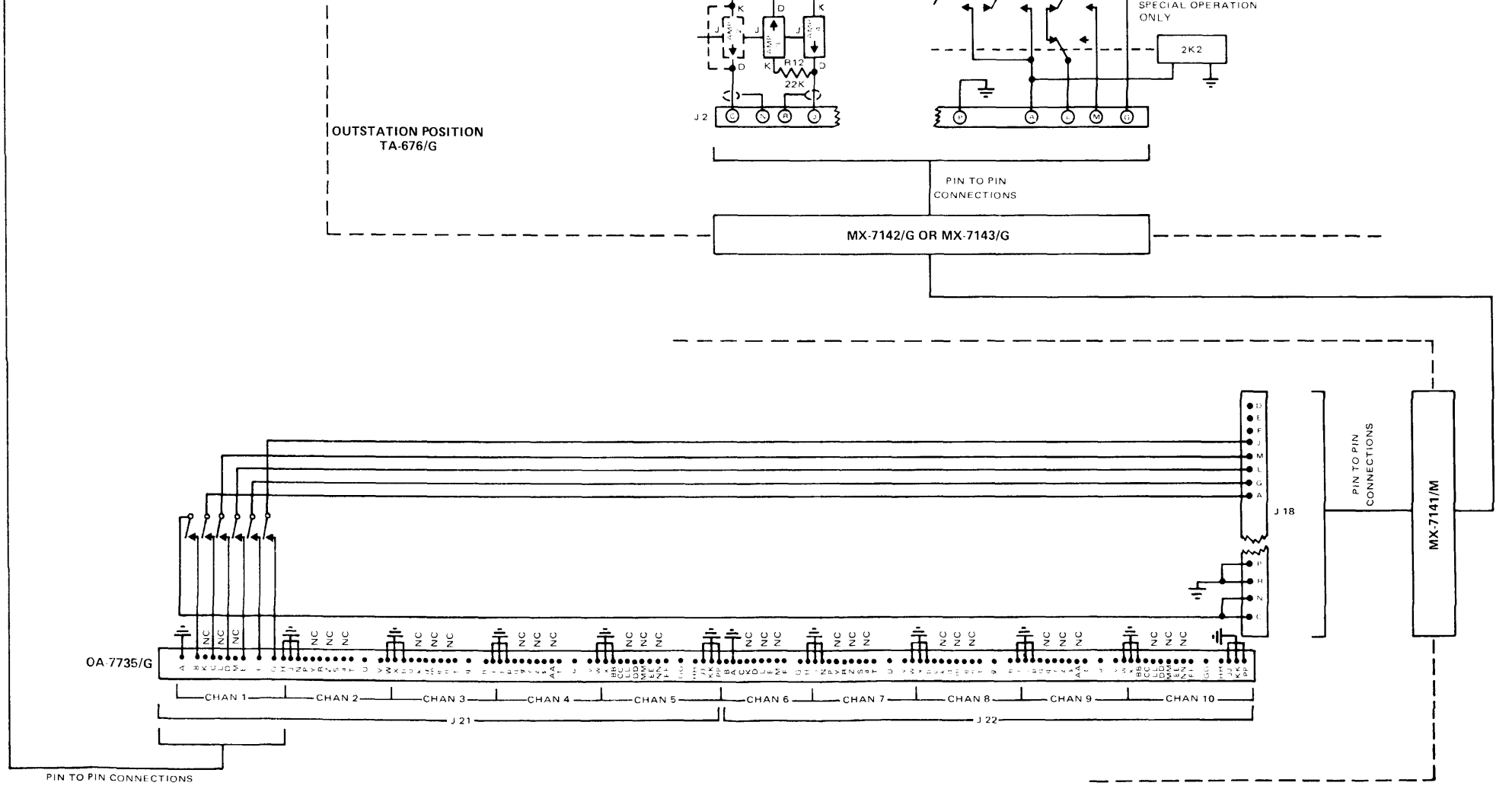
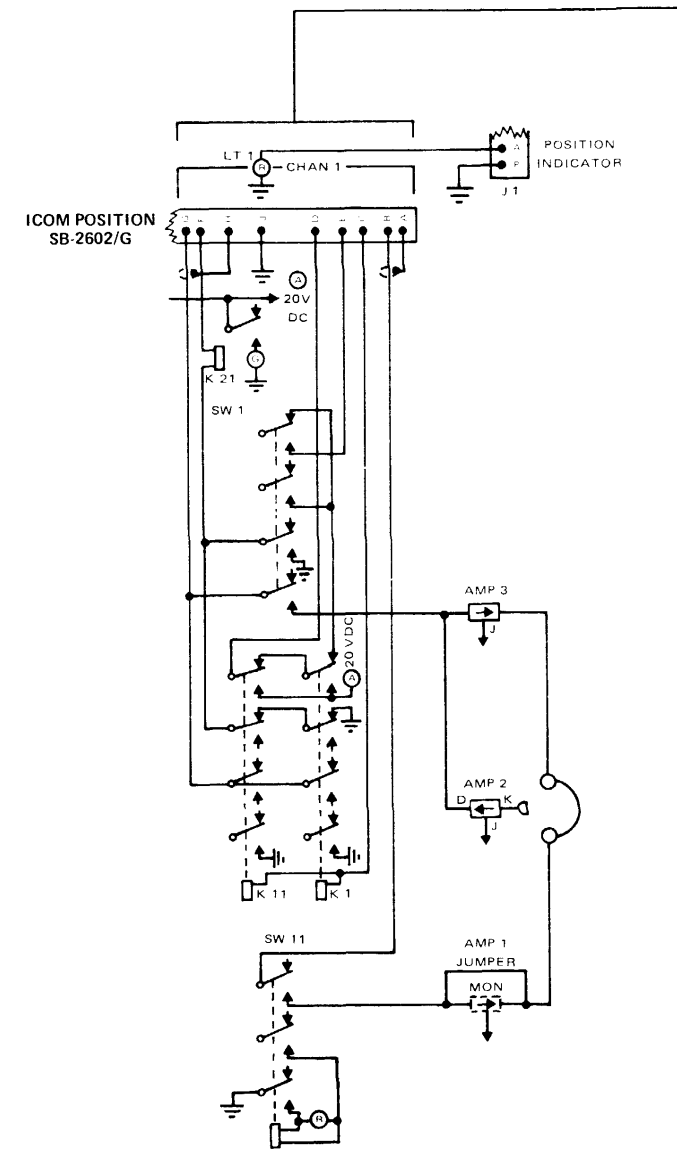
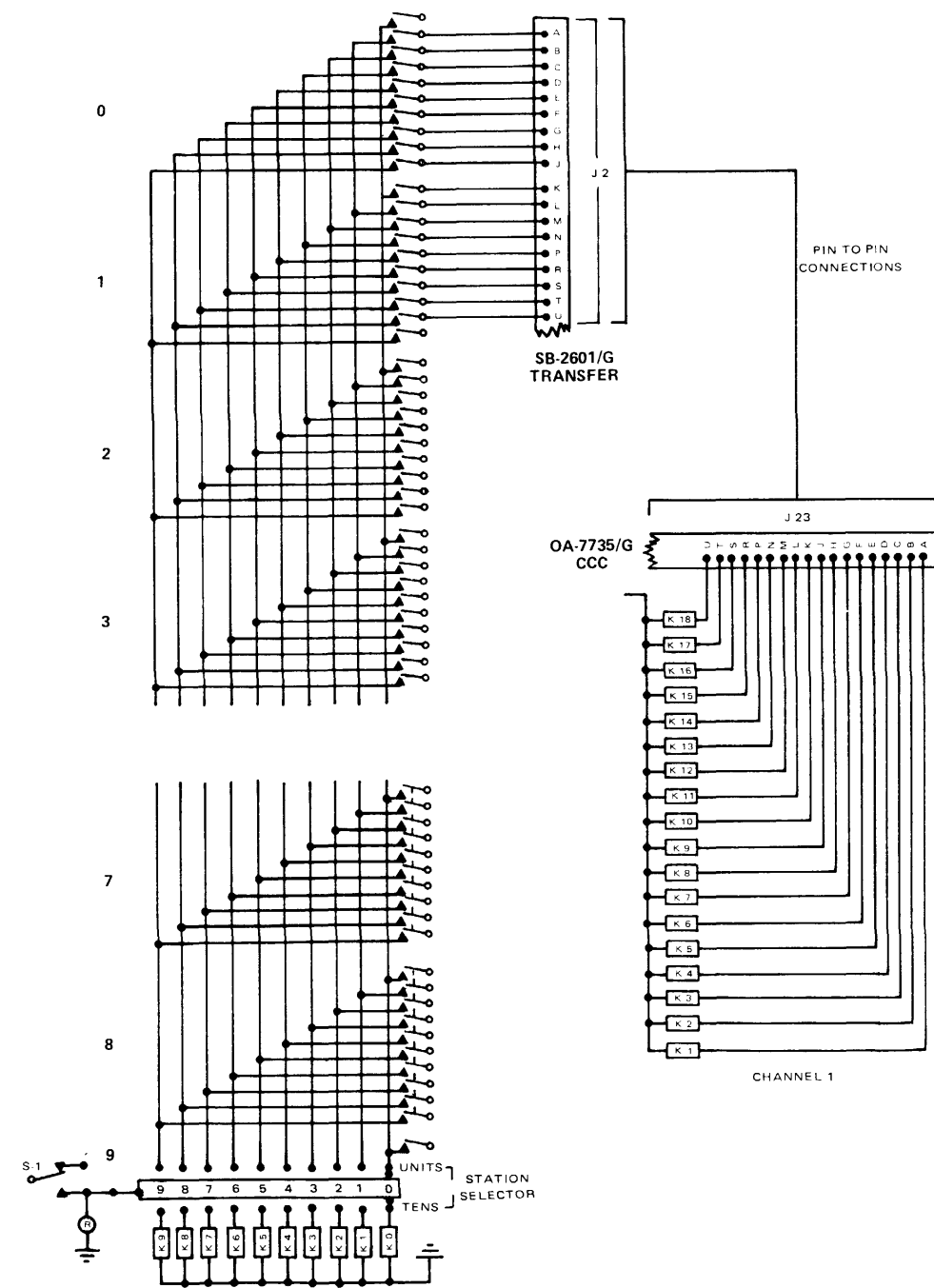
E. C. MEYER
General, United States Army
Chief of Staff

Official:

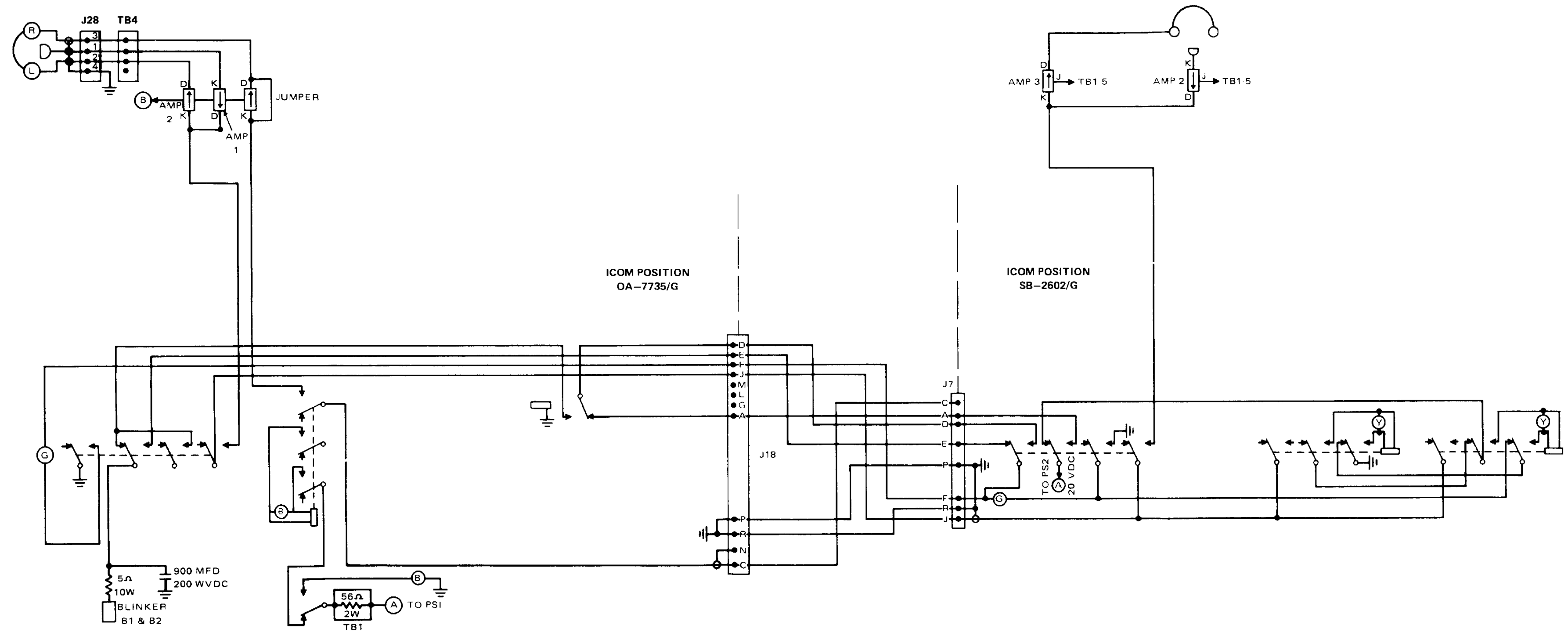
ROBERT M. JOYCE
Brigadier General, United States Army
The Adjutant General



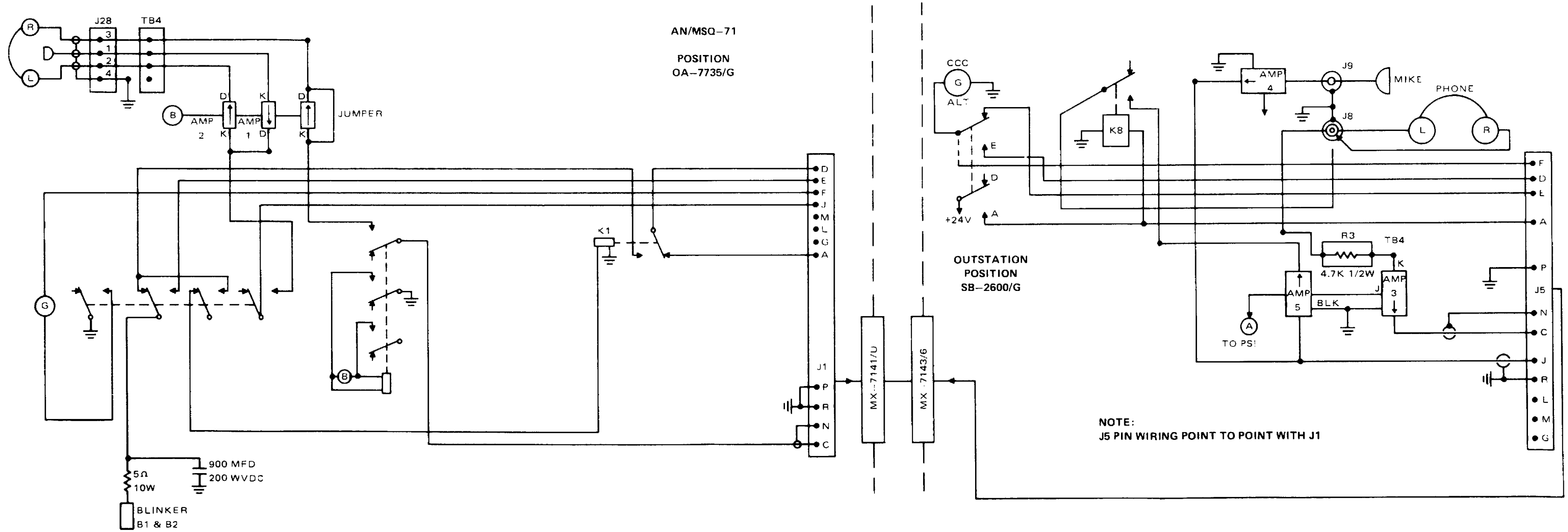
FO-1. Interconnecting Cables, Power and Control.



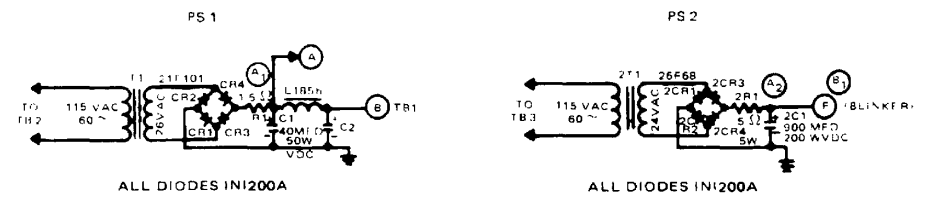
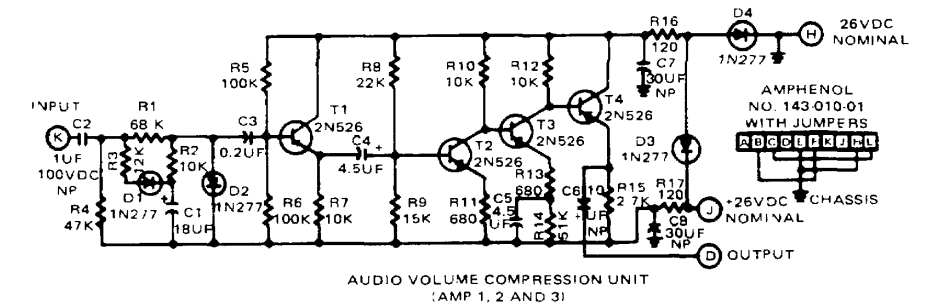
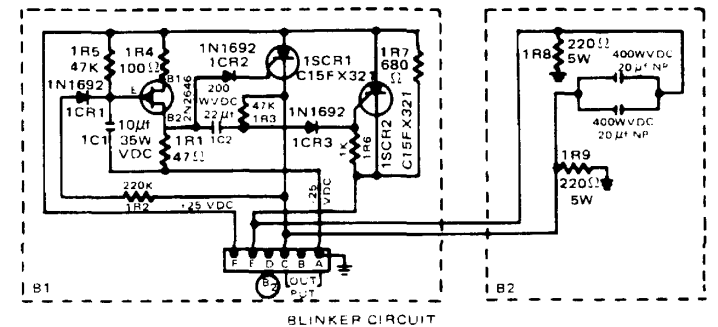
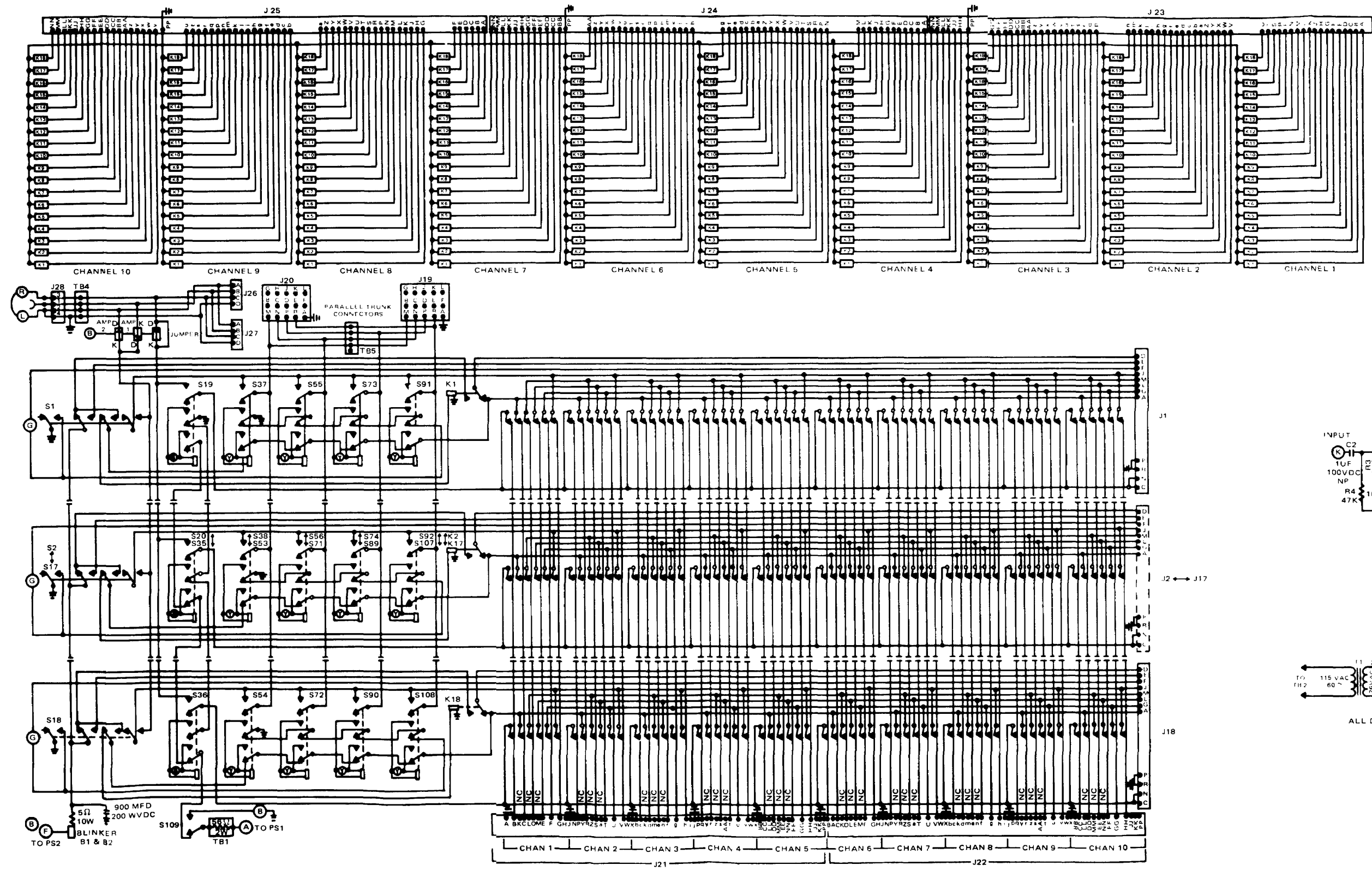
FO-2. ICOM Circuit, Outstation to RICS.



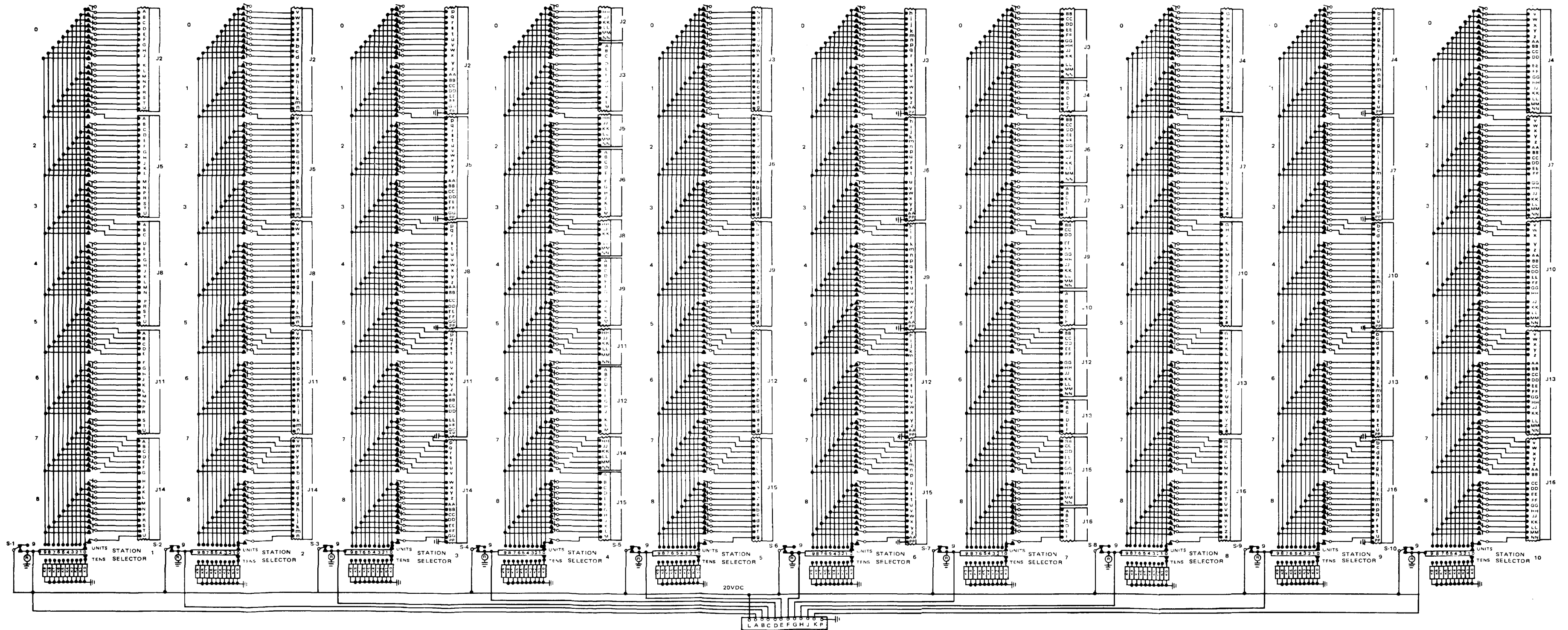
FO-3. ICOM Circuit, CCC to RICS.



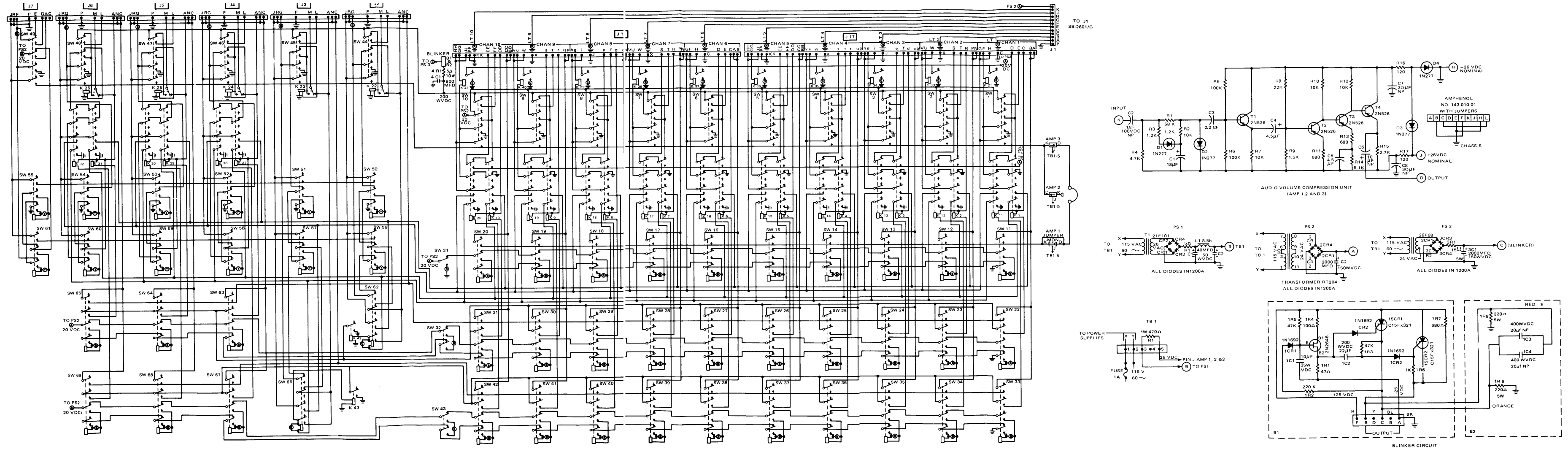
FO-4. ICOM Circuit, CCC to Outstation.



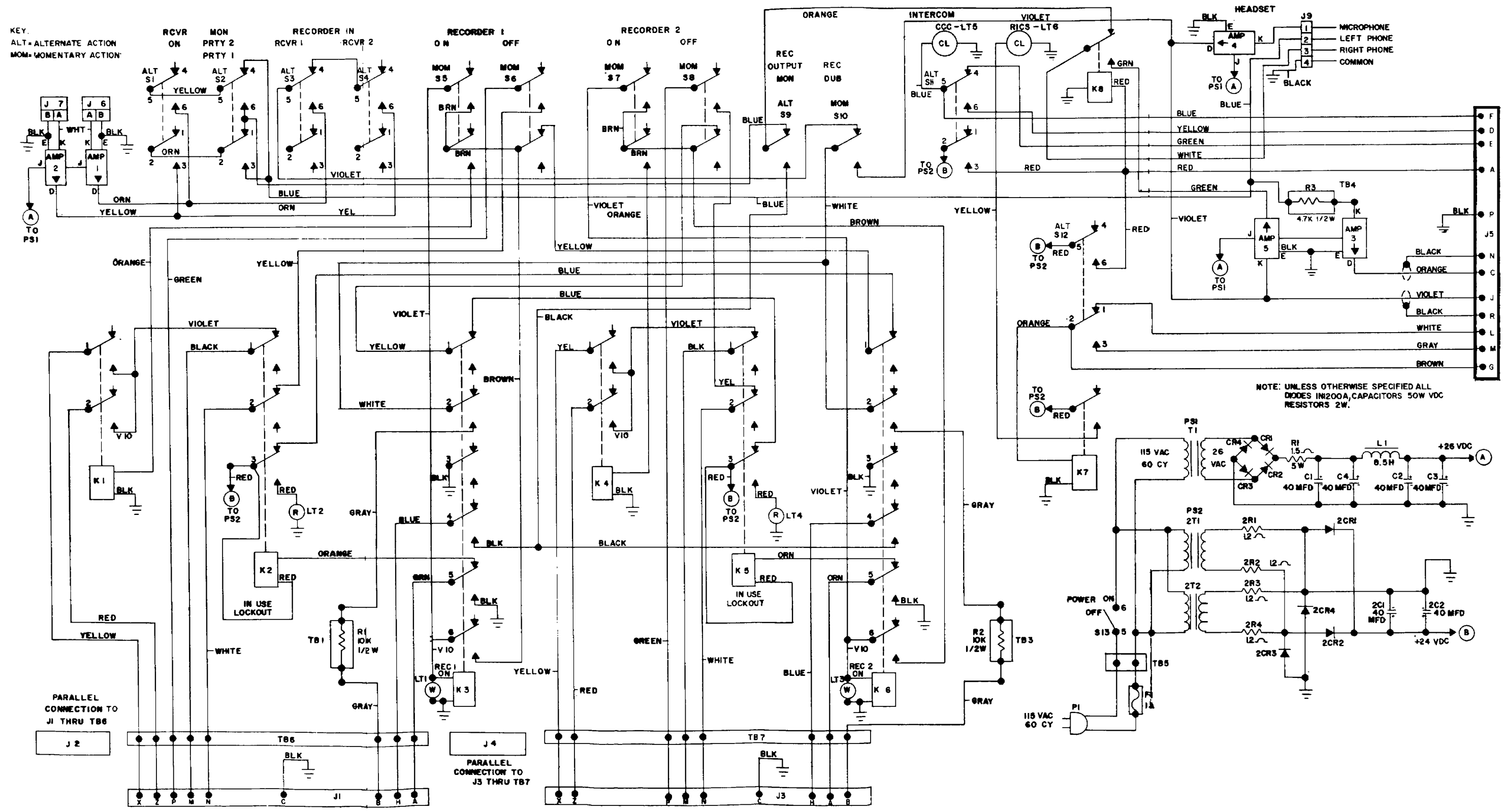
FO-5. Wiring Diagram Communication Control console, OA-7735/G.



FO-6. Wiring Diagram, Intercommunication Switchboard, SB-2601/G.




FO-7. Wiring Diagram, Radio Intercept Control Switchboard, SB-2602/G.



FO-8. Schematic, Monitor Control Panel SB-2600/G.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

 <p style="font-size: small; margin: 0;"><i>THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</i></p>		SOMETHING WRONG WITH PUBLICATION	
		FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)	
		DATE SENT	
PUBLICATION NUMBER		PUBLICATION DATE	PUBLICATION TITLE
IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.			
BE EXACT PIN-POINT WHERE IT IS			
PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER		SIGN HERE	

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 decagram = 10 grams = .35 ounce
 1 hectogram = 10 decagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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PIN: 050524-000