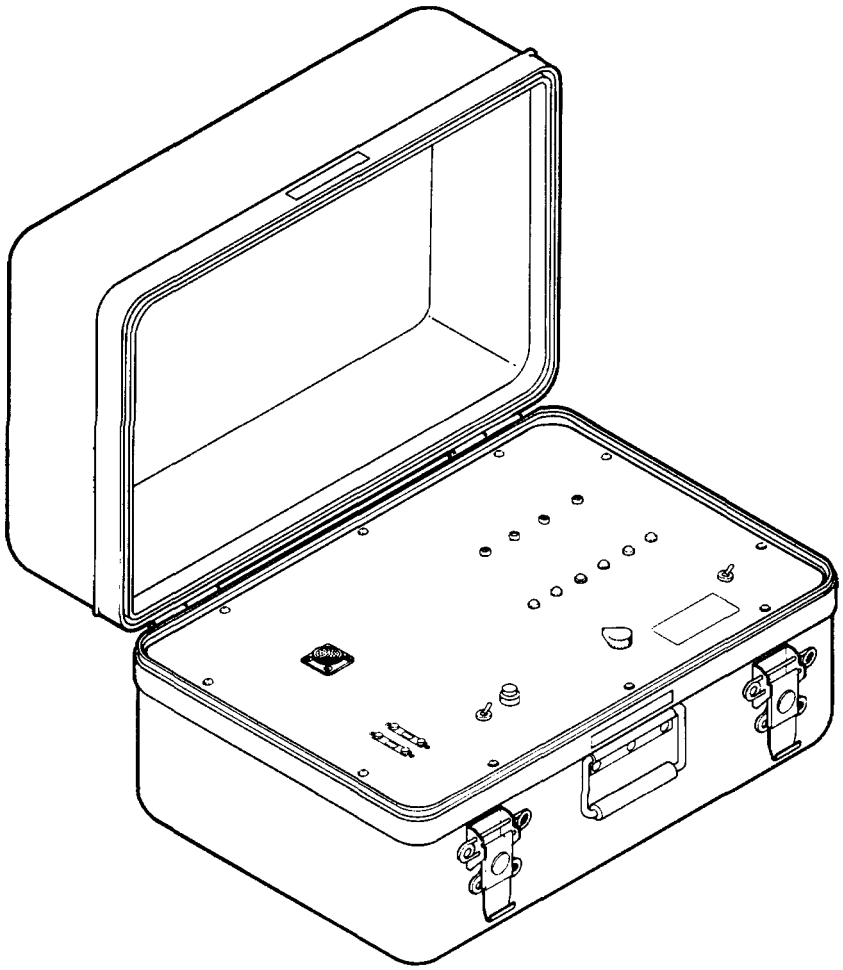
ARMY TM 11-6625-3216-14 & P
NAVY ET906-AB-OMP-010/TS-4256G
AIR FORCE TO 33A1-2-285-1

# OPERATOR, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST



## TEST SET, POWER AMPLIFIER TS-4256/G (NSN 6625-01-267-4416)

DEPARTMENTS OF THE ARMY, THE NAVY, AND THE AIR FORCE

1 JULY 1991

# 5 SAFETY STEPS TO FOLLOW IF SOMEONE IS THE VICTIM OF ELECTRICAL SHOCK

1. DO NOT TRY TO PULL OR GRAB THE INDIVIDUAL
2. IF POSSIBLE, TURN OFF THE ELECTRICAL POWER
3. IF YOU CANNOT TURN OFF THE ELECTRICAL POWER, PULL, PUSH OR LIFT THE PERSON TO SAFETY USING A DRY WOODEN POLE OR A DRY ROPE OR SOME OTHER INSULATING MATERIAL
4. SEND FOR HELP AS SOON AS POSSIBLE
5. AFTER THE INJURED PERSON IS FREE OF CONTACT WITH THE SOURCE OF ELECTRICAL SHOCK, MOVE THE PERSON A SHORT DISTANCE AWAY AND IMMEDIATELY START ARTIFICIAL RESUSCITATION

Technical Manual
TM 11-6625-3216-14&P
Technical Manual
NAVY ET906-AB-OMP-010/TS-4256G
Technical Order
TO 33A1-2-285-1

**DEPARTMENTS OF THE ARMY,
THE NAVY, AND THE AIR FORCE**

Washington, DC, 1 July 1991

# OPERATOR, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

TEST SET, POWER AMPLIFIER TS-4256/G
(NSN 6625-01-267-4416)
Current as of 1 April 1991

## 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 back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-LM-LT, Fort Monmouth, New Jersey 07703-5000.

For Air Force, submit AFTO Form 22 (Technical Order System Publication Improvement Report and Reply) in accordance with paragraph 6-5, Section VI, T.O. 00-5-1. Forward direct to prime ALC/MST.

For Navy, mail comments to the Commander, Space and Naval Warfare Systems Command, ATTN: SPAWAR 8122, Washington, DC, 20363-5100.

In either case a reply will be furnished direct to you.

## TABLE OF CONTENTS

## LIST OF ILLUSTRATIONS



## LIST OF TABLES

## SECTION I
## INTRODUCTION

### 1-1. SCOPE.

This manual contains operation and maintenance instructions for the Power Amplifier Test Set TS-4256/G as shown in Figure 1-1. The material includes operating instructions, functional descriptions, maintenance and troubleshooting procedures, Repair Parts and Special Tools Lists, and instructions for preparation for use, storage and shipment.

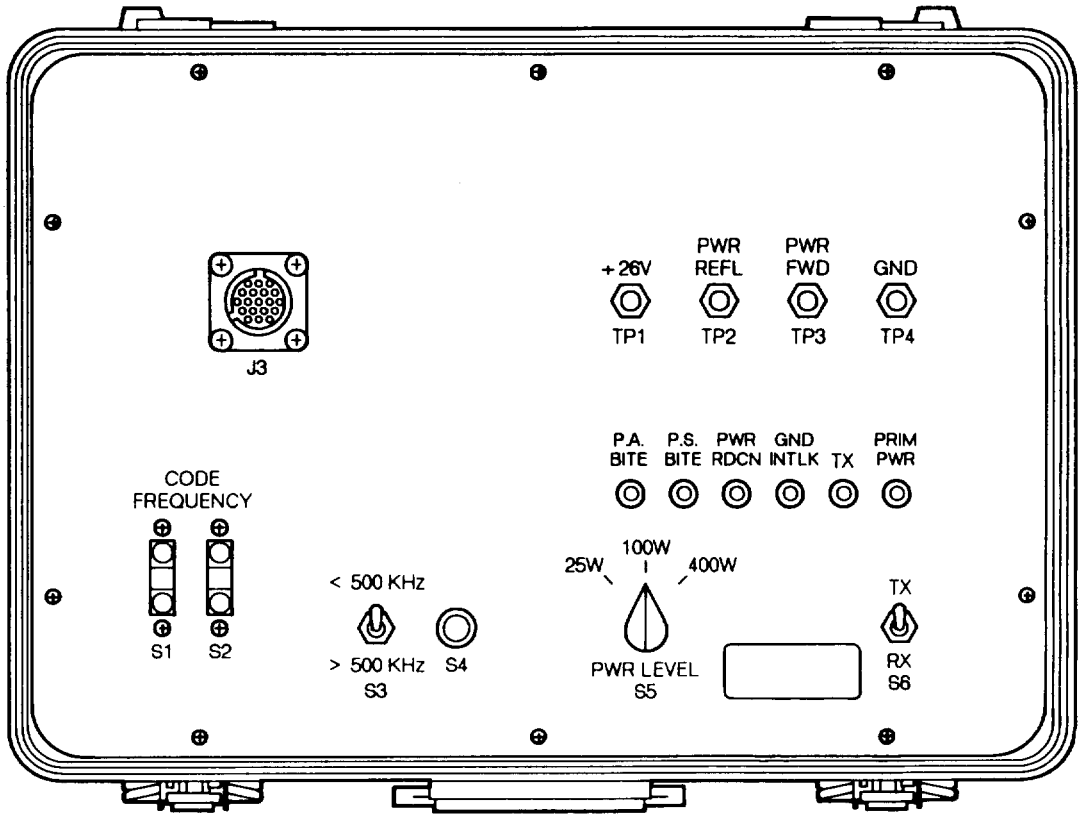



*Figure 1-1. Power Amplifier Test Set*

### 1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS

a. Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, as contained in Maintenance Management Update. Air Force personnel will use AFR 66-1 for maintenance reporting and TO-00-35D54 for unsatisfactory equipment reporting. Navy personnel will report maintenance performed utilizing the Maintenance Data Collection Subsystem (MDCS) IAW OPNAVINST 4790.2, Vol 3 and unsatisfactory material/conditions (UR submissions) IAW OPNAVINST

**1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS (Cont.)**

4790.2, Vol 2, chapter 17.

b. Reporting of Item and Packaging Discrepancies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 73511-2/DLAR 4140.55/SECNAVINST 4355.18/AFR 400-54/MCO 4430.3J.

c. Transportation Discrepancy Report (TDR) (SF 361). Fill out and forward Transportation Discrepancy Report (TDR) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

**1-3. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)**

a. Army. If your Power Amplifier Test Set 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 or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSELED-PH, Fort Monmouth, New Jersey 07703-5000. We'll send you a reply.

b. Navy. Navy personnel are encouraged to submit EIR's through their local Beneficial Suggestion Program.

c. Air Force. Air Force personnel are encouraged to submit EIR's in accordance with AFR 900-4.

**1-4. DESTRUCTION OF MATERIAL TO PREVENT ENEMY USE**

a. Army. The destruction of Army electronic material to prevent enemy use shall be in accordance with TM 750-244-2.

b. Navy. Navy Personnel comply with the local Command Material Destruction Plan.

c. Air Force. Air Force personnel comply with TM 750-244-2 or the local Emergency Destruction plan.

**1-5. EQUIPMENT DATA**

a. Electrical Characteristics

Power Source: +26.0 VDC supplied by Unit Under Test

b. Physical Characteristics

| | |
|---|---|
| Width: 14 in. | Height: 11 in. |
| Depth: 10 in. | Weight: 12 lbs. |

## 1-6. SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

Special tools, TMDE, and support equipment are listed in the Maintenance Allocation Chart (MAC), Appendix B.

## SECTION II
## FUNCTIONAL DESCRIPTION

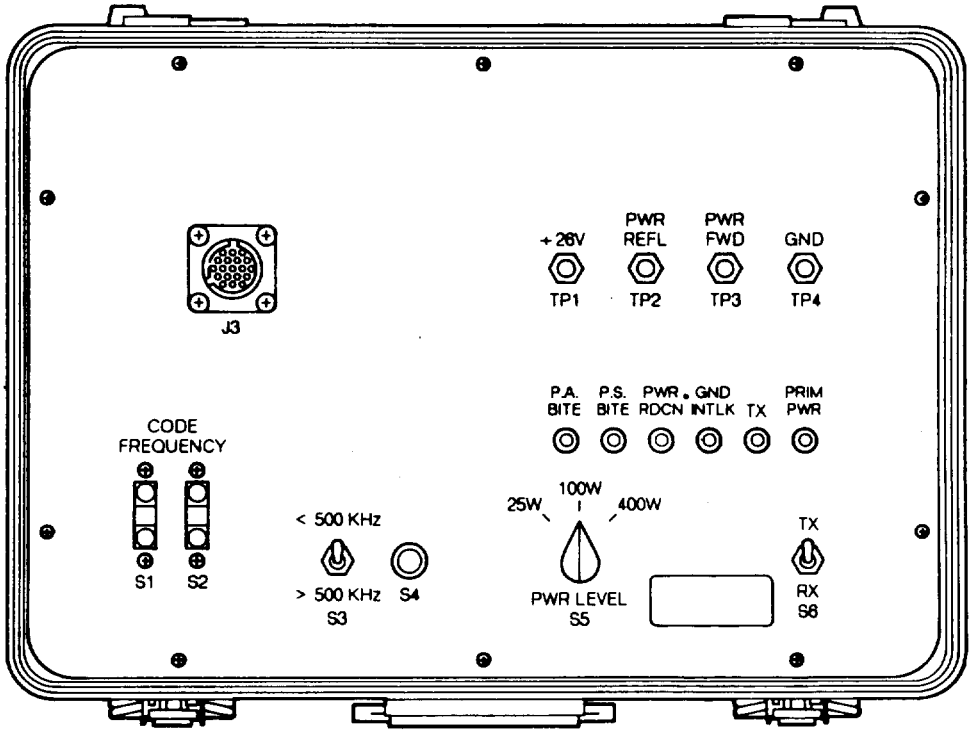
### 2-1. GENERAL

This section contains a general description and purpose for the Power Amplifier Test Set TS-4256/G, listings of controls, functional descriptions of major components and block diagrams.

### 2-2. DESCRIPTION

This equipment tests and verifies the operation of the 400 Watt Power Amplifier AM-7296/G to isolate faults to the subassembly level.

The Power Amplifier Test Set allows testing of the output power, VSWR, harmonic attenuation, Off-Line BIT and frequency intermodulation. Intermodulation is the mixing of RF frequencies in the final stage of an amplifier resulting in harmonics that are transmitted along with the fundamental frequency. Front panel switches simulate control signals such as frequency code, power level code, and the Push-To-Talk (PTT) signal that places the Power Amplifier (PA) in receive (RX) or transmit (TX) mode. Front panel test points allow measurement of forward and reflected power levels. Front panel LEDs verify the proper operation of the PA by indicating a fault.




**TEST SET, POWER AMPLIFIER TS-4256/G**

## 2-3. CONTROLS AND INDICATORS

Figure 2-1 illustrates the locations of front panel controls. Table 2-1 lists the controls by callout number and gives a description of each control.

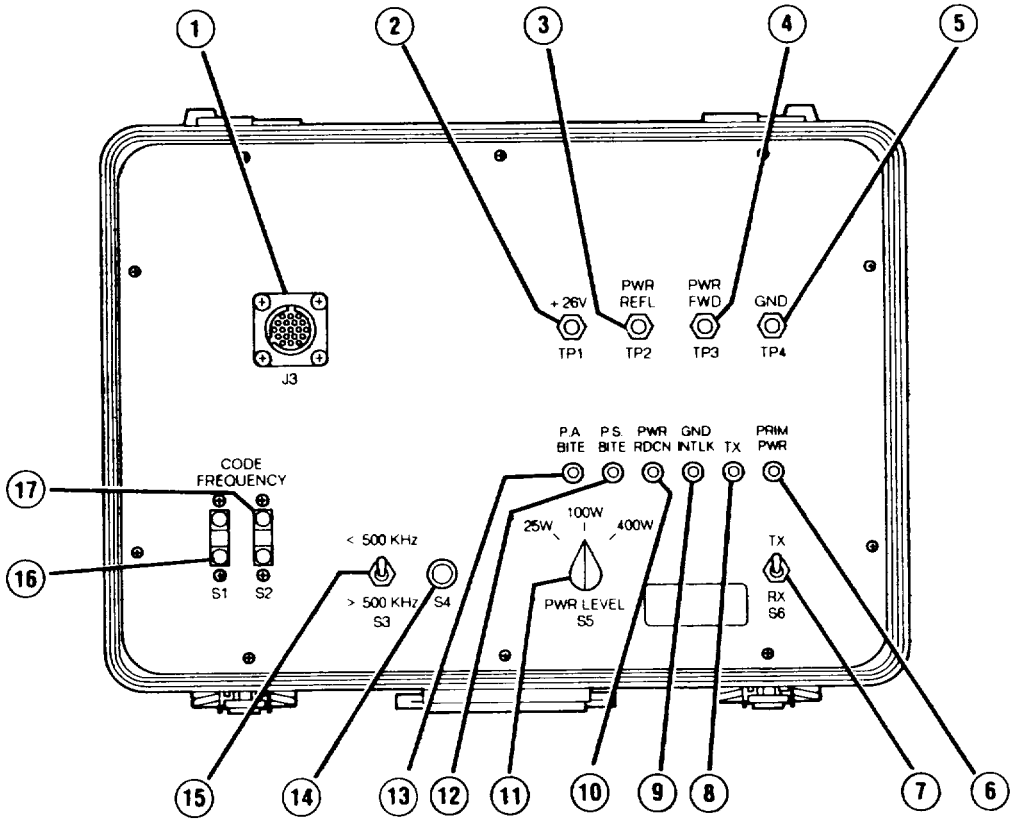



*Figure 2-1. Power Amplifier Test Set Front Panel*

*Table 2-1. Power Amplifier Test Set Controls and Indicators (1 of 2)*

| Fig. and Index No. | Name | Purpose |
|---|---|---|
| 2-1 -(1) | J3 | Connects control and status signals between test set and Unit Under Test (UUT). Also connects +26.0 VDC to test set. |
| -(2) | TP1 | +26.0 VDC from UUT. |
| -(3) | TP2 | To measure reflected power level of UUT. |
| -(4) | TP3 | To measure forward power level of UUT. |
| -(5) | TP4 | To measure chassis ground. |

**2-3. CONTROLS AND INDICATORS (Cont.)**

*Table 2-1. Power Amplifier Test Set*
*Controls and Indicators (2 of 2)*

| Fig. and Index | No. | Name | Purpose |
|---|---|---|---|
| 2-1- | (6) | DS6 | Indicates presence of +26.0 VDC from UUT. |
| | -(7) | S6 | Grounds pin 5 of J3 to place the UUT in TX mode. |
| | -(8) | DS1 | Indicates that UUT in transmit mode. |
| | -(9) | DS4 | Indicates that UUT can not transmit due to interlock. |
| | -(10) | DS5 | Indicates the UUT is operating at reduced power level (100 Watts or 25 Watts). |
| | -(11) | S5 | Selects the power level that the UUT operates at. |
| | -(12) | DS3 | Indicates a UUT Power Supply Fail condition. |
| | -(13) | DS2 | Indicates a UUT Fail condition. |
| - | -(14) | S4 | Momentary contact switch that, when S5 is to the 25 W position, reduces output of UUT to 25 Watts when pressed. |
| | -(15) | S3 | Sets the operating frequency of the UUT in 500 KHz increments. |
| | -(16) | S1 | Sets the operating frequency of the UUT in 10 MHz increments. |
| | -(17) | S2 | Sets the operating frequency of the UUT in 1 MHz increments. |

*Table 2-2. Power Amplifier Test Set Cable Assemblies*

| Cable | Part Number | Title |
|---|---|---|
| W27 | 420556-801 | None |
| W30 | 3-94289//B | None |
| W73 | 420557-801 | None |
| W74 | 422018-1 | None |

## 2-4. FUNCTIONAL DESCRIPTION OF POWER AMPLIFIER TEST SET

The Power Amplifier Test Set generates control signals with front panel switches and monitors the operation of the UUT through front panel LEDs and test points. Control signals include the frequency code, which selects the proper harmonic filter within the UUT for the frequency of operation, and the power-level code, which controls the power output level of the UUT. Front panel LEDs indicate fail signals from the UUT and its power supply, operation at a reduced output, and whether the test set is operating in transmit or receive mode. Front panel test points include forward and reflected power samples and the test set operating voltage. The UUT supplies +26.0 VDC operating voltage to the test set through cable W30 to pin 37 of connector J3. (See FO-1.) This brings voltage up on front panel test point TP1 and connects it through resistor R26 on CCA Al to the anode of LED DS6 to indicate the presence of the operating voltage. Pins 2 and 3 of connector J3 provide a return path to ground.

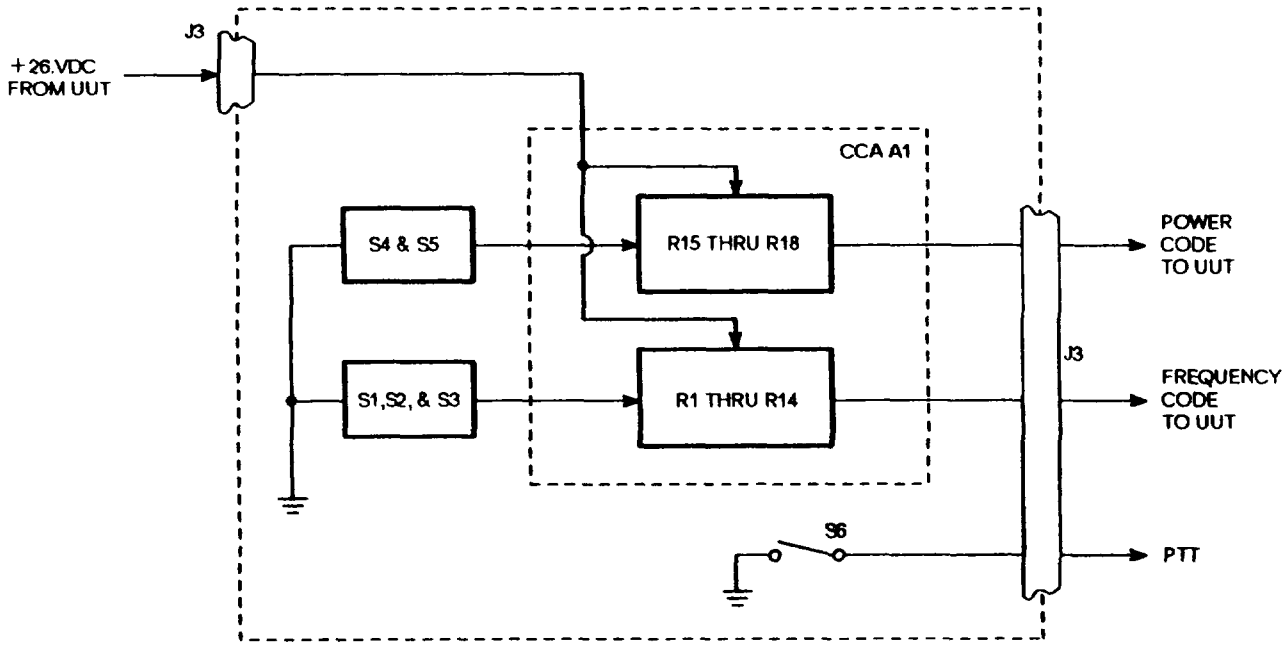



*Figure 2-2. Block Diagram*

The +26.0 VDC is also connected to the anodes of LEDs DS1 through DS5. With switch S6 set to the TX position, pin 5 of connector J3 is grounded through diode A1CR1 to simulate a PTT signal to the UUT. The cathode of LED DS1 is also grounded by switch S6 through current-limiting resistor R21 to indicate that switch S6 is in the TX position. Similarly, a ground provided by the UUT to pin 6, 4, 1, or 18 of connector J3 will cause one of the front panel LEDs, DS2 through DS5, to light. Resistors R22 through R26 provide current limiting for the LEDs.

**2-4. FUNCTIONAL DESCRIPTION OF POWER AMPLIFIER TEST SET (Cont.)**

The forward and reflected power samples from the directional coupler module of the UUT connect to pins 27 and 22 of connector J3, respectively. The forward power level sample then connects to TP3, and the reflected power sample connects to TP2 of the Test Set front panel.

The power-level code is a binary code, formed by switches S4 and S5. With switch S5 in the 400W position, both pins 7 and 23 of connector J3 are at a logic level of 1 (+3.5 to +4.5 VDC). The voltage level is provided by voltage divider networks made up of resistors R15 through R18. With switch S5 set to the 100W position, pin 23 of J3 is grounded, logic level 0 (-0.5 to +0.5 VDC), while pin 7 is at a logic level of 1. When switch S5 is in the 25W position, pin 23 of connector J3 is at a logic level of 1 and, when switch S4 is pressed, pin 7 of connector J3 is at logic level of 0. Switch S4 is only functional in the 25W position.

The frequency code, also a binary code, is created in a manner similar to the power code. Switches S1 and S2 set the frequency code in increments of 10 MHz and 1 MHz, respectively. The voltage dividers, formed by resistors R1 through R4, connect to switch S1 and pins 9 and 10 of connector J3. Switch S2 has four output lines, pins 11 through 14 of connector J3, that connect to the voltage dividers formed by resistors R5 through R12. A logic level of 0 is output when the thumbwheel switch connects ground to the junction point of the divider network. Otherwise, the output is a logic level of 1.

Switch S3 is used to set the frequency code in increments of 500KHz. Switch S3 grounds pin 15 of connector J3 in the < 500KHz position to present a logic level of 0 to the UUT. In the > 500KHz position, a logic level of 1 exists at pin 15.

## SECTION III
## PREPARATION FOR USE

### 3-1. GENERAL

This section contains instructions for preparation for use of Power Amplifier Test Set TS-4256/G. These include instructions for unpacking, if any special procedures are required, inspecting unpacked equipment for damage, and any preliminary servicing procedures required to prepare the equipment for operation.

### 3-2. UNPACKING

No special procedures are required for removing the test set from its shipping container. Use normal care in handling electronic equipment. Avoid jarring test set during removal.

### 3-3. CHECKING UNPACKED EQUIPMENT

a. Reporting of Item and Packaging Discrepancies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 73511-2/DLAR 4140.55/SECNAVINST 4355.18/AFR 400-54/MCO 4430.3J.

b. Transportation Discrepancy Report (TDR) (SF 361). Fill out and forward Transportation Discrepancy Report (TDR) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

c. Refer to DA Pam 25-30 to see if your equipment has had any Modification Work Orders (MWO) applied.

### 3-4. PRELIMINARY SERVICING OF EQUIPMENT

Prior to placing the Test Set in service, perform the following visual inspection procedures. Do not connect unit to primary power source or any other equipment during these procedures.

a. Check all front panel connectors for broken, bent or missing pins.

b. Check all front panel mounted switches, lamps, or other hardware for damage.

## SECTION IV
## OPERATION

### 4-1. GENERAL

This section contains operating procedures for the Power Amplifier Test Set TS-4256/G.

### 4-2. INITIAL POSITION OF CONTROLS.

Table 4-1 lists the initial positions of the front panel controls prior to operating the equipment. See Figure 2-1 for location of front panel controls.

*Table 4-1. Initial Position of Controls*

| Fig. and Index No. | Control Name | Purpose |
|---|---|---|
| 2-1 -(16) and (17) | S1 and S2 | 0 |
| -(15) | S3 | > 500KHz |
| -(11) | S5 | 400W |
| -(7) | S6 | RX |

### 4-3. OPERATING INSTRUCTIONS

Position the initial control settings, as shown in Table 4-1. The test set lid provides storage for test set cable assemblies. Connect cable W30 to connector J3 on the test fixture. Interconnect the AM-7296/G and the PP-8097/G power supply using cables W27 and W73. Power supply, PP-8097/G gets AC power via cable W74. Follow the test procedures in the technical manual for the UUT. When the test procedures are completed, switch the Power Amplifier to OFF, disconnect cable W30, and return all other switches to their initial positions. Disconnect and store the remaining test set cables.

## SECTION V
## MAINTENANCE

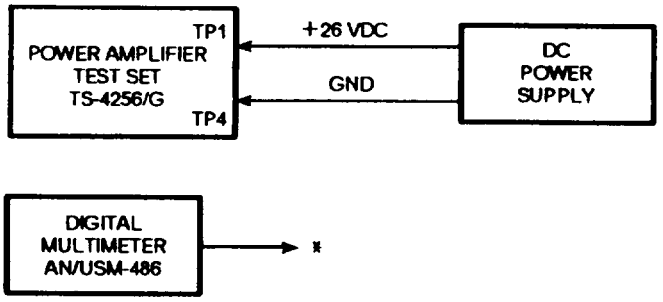
### 5-1. GENERAL

This section contains operational check procedures, the symptom index, troubleshooting flowcharts, and removal/replacement procedures for Power Amplifier Test Set TS-4256/G.

The operational check is performed using the following test equipment.

Test Equipment

| | |
|---|---|
| Digital Multimeter, AN/USM-486 | Test Probe to Banana Plug, Black, ITT Pomona 4410-48-0 |
| Power Supply, PP-8202/G | Test Probe to Banana Plug, Red, ITT Pomona 4410-48-2 |




* CONNECT AS REQIRED

*Figure 5-1. Operational Test Setup*

## 5-2. OPERATIONAL CHECK OF POWER AMPLIFIER TEST SET

a. Continuity and Resistance Check

1. Disconnect the power supply from test set. Measure for less than 1.5 ohms of resistance between the following points:

| FROM | TO |
|---|---|
| J3 pins 2, 3, 19, 21 | TP4 |
| J3 pin 37 | TP1 |
| J3 pin 27 | TP3 |
| J3 pin 22 | TP2 |
| TP4 | Chassis Ground |

2. Measure for 10.0 (9.5 to 10.5) Kohms between TP3 and TP4.

3. Measure for 24.3 (23.09 to 25.51) Kohms between TP2 and TP4.

4. Set S6 to TX and perform a diode check between J3 pin 5 and TP4. (Red lead to J3-5 is forward bias)

b. LED Test

1. Reconnect the test set as shown in figure 5-1 and adjust the PP-8202/G power supply to +26.0 (+25.0 to +27.0) VDC. Verify that LED DS6 (Prim PWR) lights.

2. Set switch S6 as listed below and observe the associated LED.

| SET-UP | INDICATION |
|---|---|
| S6 to RX | LED DS1 (TX) is off |
| S6 to TX | LED DS1 (TX) lights |

3. Ground the following connector pins of J3 and observe the LEDs listed below.

| SET-UP | INDICATION |
|---|---|
| J3 pin 6 grounded | LED DS2 (PA BITE) lights |
| J3 pin 4 grounded | LED DS3 (PS BITE) lights |
| J3 pin 1 grounded | LED DS4 (GND INTLK) lights |
| J3 pin 18 grounded | LED DS5 (PWR RDCN) lights |

**5-2. OPERATIONAL CHECK OF POWER AMPLIFIER TEST SET (Cont.)**

c. Test of Switches S1 and S2

1. Set switch S1 to the position listed below and with the DMM measure for a logic level of 1 or 0 at the following pins of connector J3:

Logic level 0 = 0.0 (-0.5 to +0.5) VDC
Logic level 1 = +4.0 (+3.5 to +4.5) VDC

| S1 SETTING | PIN 9 | PIN 10 |
|---|---|---|
| 0 | 0 | 0 |
| 1 | 1 | 0 |
| 2 | 0 | 1 |

2. Set switch S2 to the position listed below and with the DMM measure for a logic level of 1 or 0 at the following pins of connector J3:

Logic level 0 = 0.0 (-0.5 to +0.5) VDC
Logic level 1 = +4.0 (+3.5 to +4.5) VDC

| S2 SETTING | PIN 11 | PIN 12 | PIN 13 | PIN 14 |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 0 |
| 2 | 0 | 1 | 0 | 0 |
| 3 | 1 | 1 | 0 | 0 |
| 4 | 0 | 0 | 1 | 0 |
| 5 | 1 | 0 | 1 | 0 |
| 6 | 0 | 1 | 1 | 0 |
| 7 | 1 | 1 | 1 | 0 |
| 8 | 0 | 0 | 0 | 1 |
| 9 | 1 | 0 | 0 | 1 |

d. Test of Switch S3, S4 and S5

1. Set switches as listed below and with the DMM measure for a logic level of 1 or 0 at the following pins of connector J3:

Logic level 0 = 0.0 (-0.5 to +0.5) VDC
Logic level 1 = +4.0 (+3.5 to +4.5) VDC

| SET-UP | PIN 7 | PIN 23 |
|---|---|---|
| S5 to 400W | 1 | 1 |
| S5 to 100W | 1 | 0 |
| S5 to 25W | 1 | 1 |
| S5 to 25W (S4 depressed) | 0 | 1 |

**5-2. OPERATIONAL CHECK OF POWER AMPLIFIER TEST SET (Cont.)**

2. Set switch S3 as listed below and measure for a logic level of 1 or 0 at pin 15 of connector J3:

Logic level 0 = 0.0 (-0.5 to +0.5) VDC
Logic level 1 = +4.0 (+3.5 to +4.5) VDC

| SET-UP | PIN 15 |
|---|---|
| S3 to < 500KHz | 0 |
| S3 to > 500KHz | 1 |

e. Continuity Testing of Associated Cables.

1. Test continuity of cables W27, W30, W73 and W74 for less than 0.5 ohms resistance with DMM (see FO-3).

## 5-3. SYMPTOM INDEX

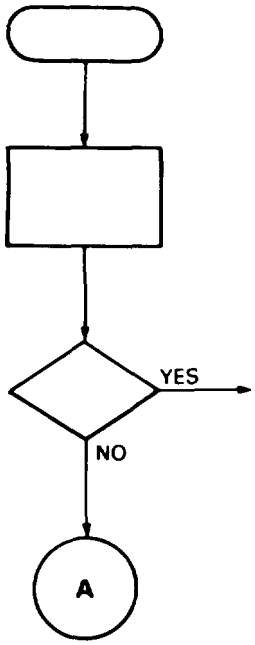
The following chart is intended to assist in rapid identification and replacement of faulty components.

| SYMPTOM | TROUBLESHOOTING FLOWCHART PARAGRAPH |
|---|---|
| LED DS6 Does Not Light | 5-6 |
| LED DS1 Does Not Light | 5-7 |
| Switch S1 or S2 Faulty | 5-8 |

## 5-4. FLOWCHARTS AND HOW TO USE THEM

The flowcharts make troubleshooting easier and give maintenance personnel a clear path to follow.

To use the flowchart begin at start and follow the path indicated by the arrow. Perform the task given by the symbol block and then follow the arrow to the next block. At the decision symbol be sure to follow the correct path indicated by YES or NO.

| SYMBOL | MEANING |
|---|---|
|  | Start and finish symbol indicates starting and finishing points. |
| | Task symbol indicates what to do and where to do it. |
| | Decision symbol (yes or no) indicates that a decision must be made. The direction to go from the decision symbol depends on the decision made. |
| | Continuation symbol indicates that the path continues to or comes from another flowchart. |

## 5-5. TROUBLESHOOTING

**INITIAL SETUP**

Test Equipment

Digital Multimeter, AN/USM-486
Power Supply, PP-8202/G
Test Probe to Banana Plug, Black,
ITT Pomona 4410-48-0
Test Probe to Banana Plug, Red,
ITT Pomona 4410-48-2

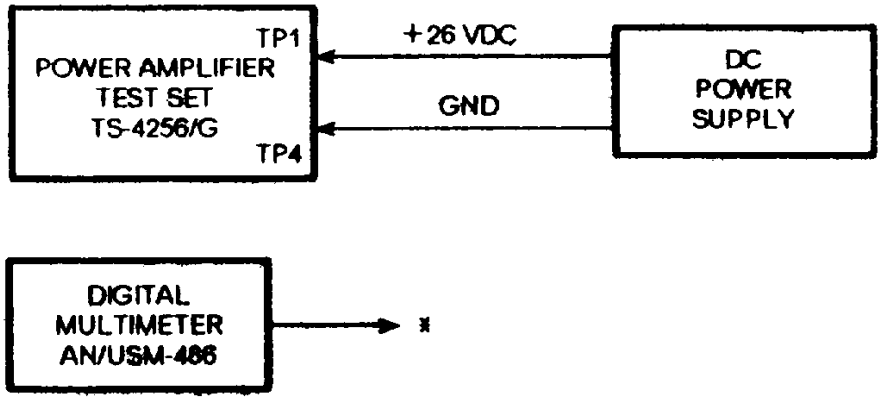
Tools

Tool Kit TK-17

Equipment Condition

Power Supply adjusted to +26.0 (+25.0 to +27.0) VDC.

Test Set Switches:
S1 and S2 to 0
S3 to > 500KHz
S5 to 400W
S6 to RX

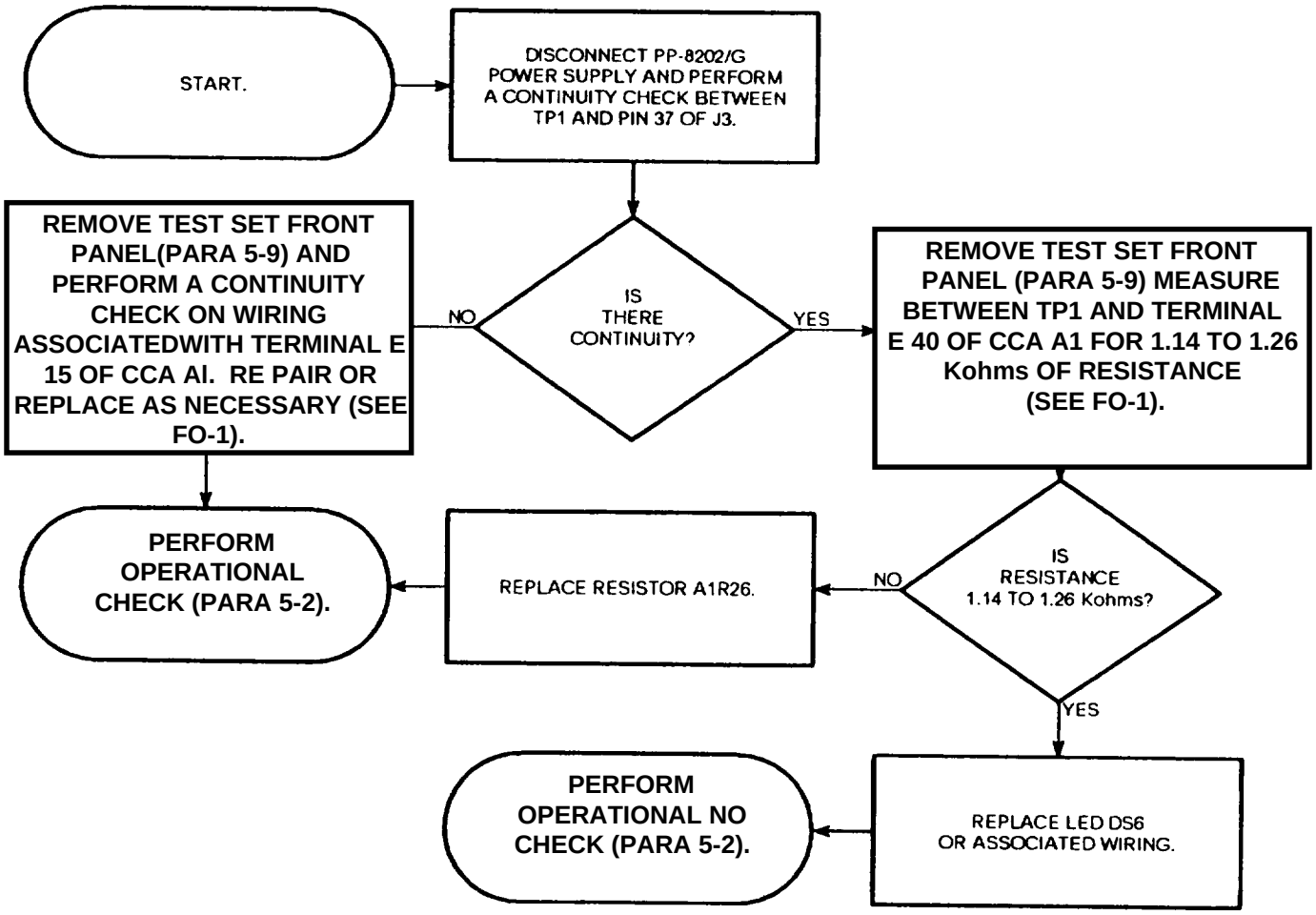



* CONNECT AS REQUIRED

*Figure 5-2. Initial Setup*

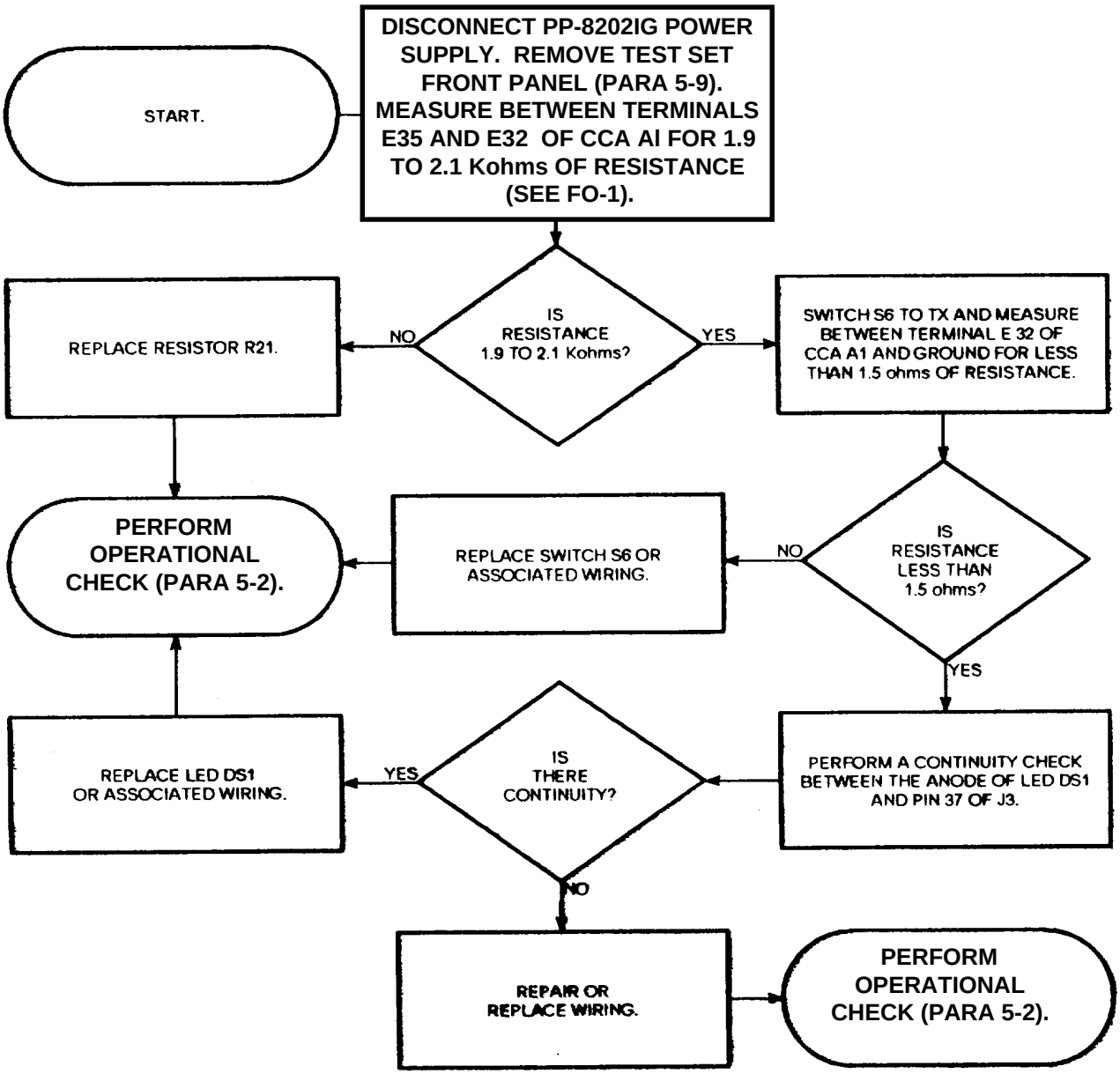
## 5-6. LED DS6 DOES NOT LIGHT

Refer to paragraph 5-5 for initial setup illustration and test equipment listing.



## 5-7. LED DS1 DOES NOT LIGHT

Refer to paragraph 5-5 for initial setup illustration and test equipment listing.



## 5-8. SWITCH S1 OR S2 FAULTY

Refer to paragraph 5-5 for initial setup illustration and test equipment listing.

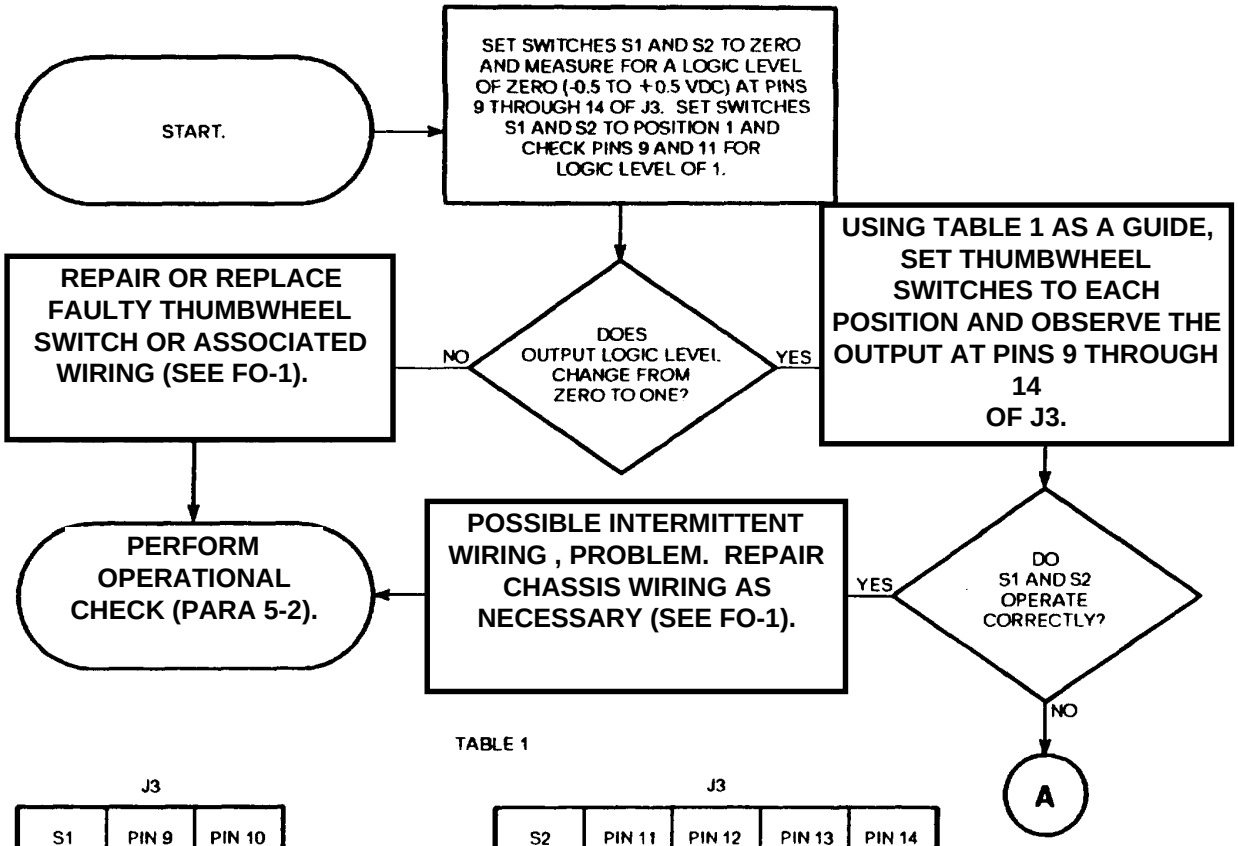



TABLE 1

J3

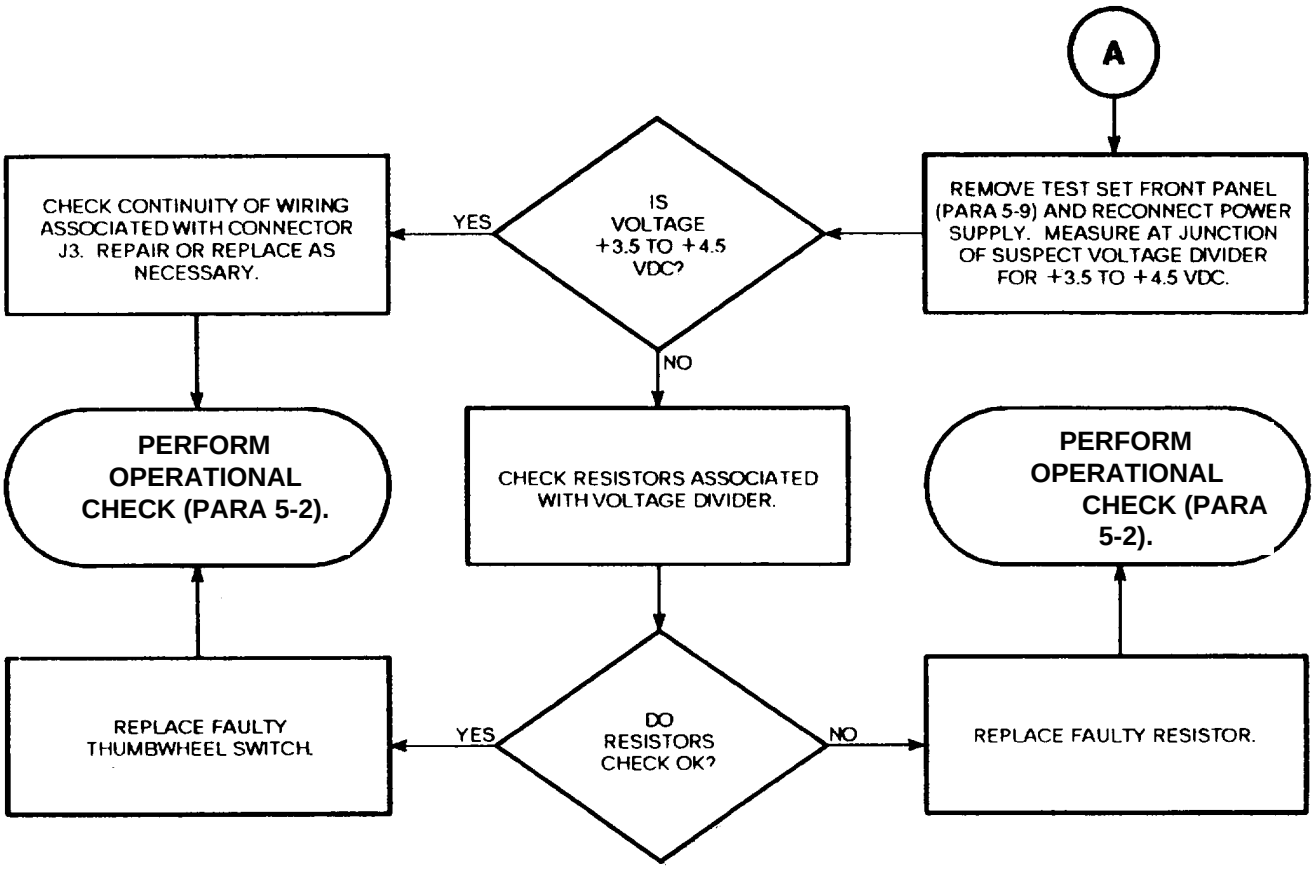
| S1 | PIN 9 | PIN 10 |
|---|---|---|
| 0 | 0 | 0 |
| 1 | 1 | 0 |
| 2 | 0 | 1 |

NOTE: 0 = -0.5 TO +0.5 VDC
1 = +3.5 TO 4.5 VDC

J3

| S2 | PIN 11 | PIN 12 | PIN 13 | PIN 14 |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 0 |
| 2 | 0 | 1 | 0 | 0 |
| 3 | 1 | 1 | 0 | 0 |
| 4 | 0 | 0 | 1 | 0 |
| 5 | 1 | 0 | 1 | 0 |
| 6 | 0 | 1 | 1 | 0 |
| 7 | 1 | 1 | 1 | 0 |
| 8 | 0 | 0 | 0 | 1 |
| 9 | 1 | 0 | 0 | 1 |

**5-8. SWITCH S1 OR S2 FAULTY (Cont.)**



## 5-9. REMOVAL/REPLACEMENT OF FRONT PANEL AND COMPONENTS (SEE APPENDIX C)

**WARNING**

**All Removal/Replacement procedures are performed with power removed. For safety purposes disconnect power cables before beginning procedures.**

**REMOVAL:**

1. Remove 10 cross-tip screws (1) and flatwashers (2) securing front panel (3) to case.
2. Lift front panel (3) away from case (4).
3. Position front panel so component to be replaced is accessible.
4. Tag and unsolder wires from components being replaced.
5. Loosen and remove any hardware securing component.

**REPLACEMENT:**

1. Position component.
2. Replace and tighten any hardware that secures component.
3. Solder wires to replacement component and remove tags.
4. Position front panel (3) in case (4).
5. Tighten 10 cross-tip screws (1) and flatwashers (2) that attach front panel (3) to case (4).
6. Perform Operational Check (para. 5-2).

**5-9. REMOVAL/REPLACEMENT OF FRONT PANEL AND COMPONENTS (SEE APPENDIX C) (Cont.)**

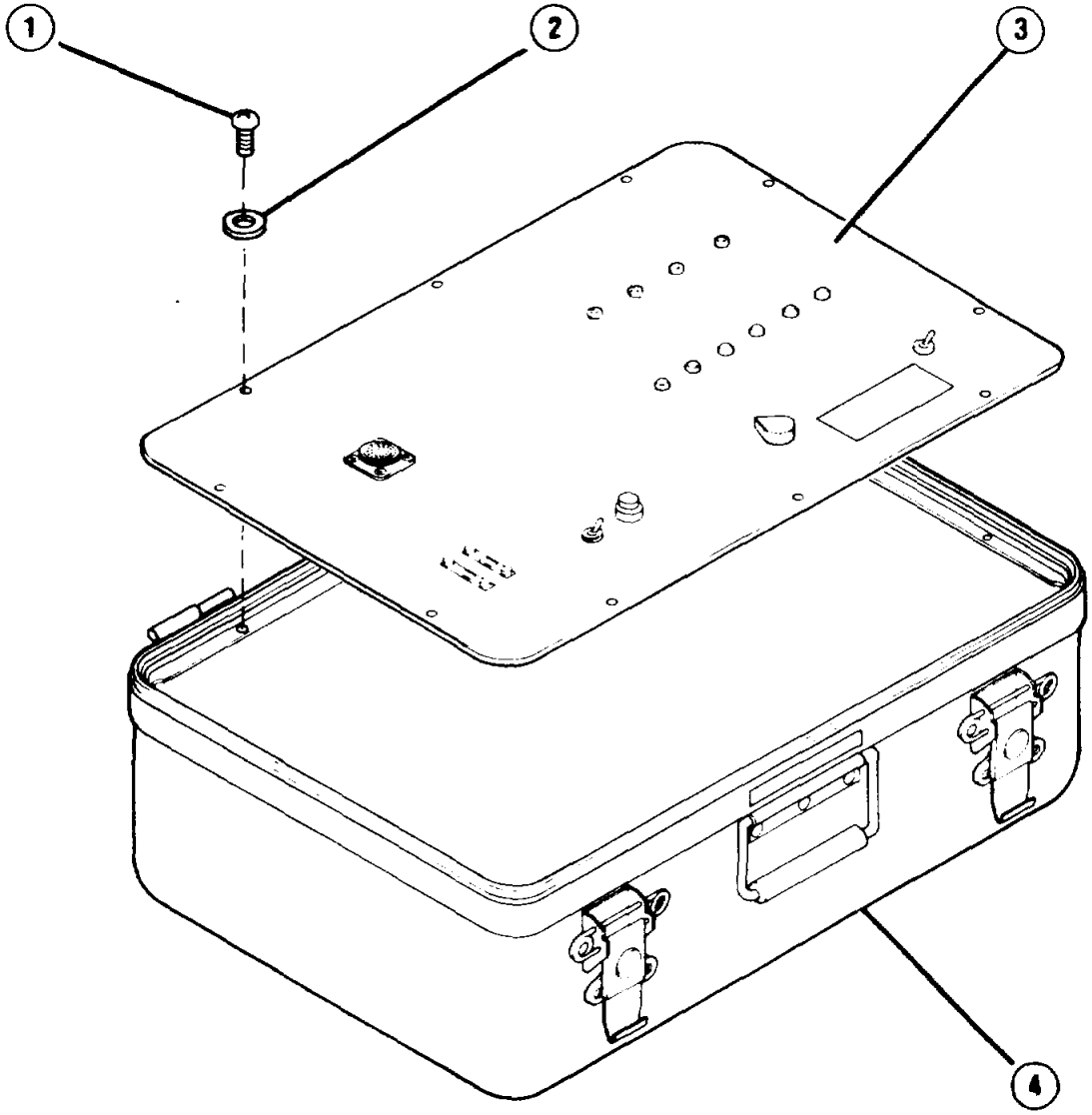



*Figure 5-3. Front Panel removal/Replacement*

## SECTION VI
## PREPARATION FOR STORAGE OR SHIPMENT

### 6-1. GENERAL

a. Army. Administrative storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance with the PMCS charts before storing. When removing the equipment from administrative storage the PMCS should be performed to assure operational readiness.

b. Navy. Refer to NAVSUP PUB 503.

c. Air Force. Refer to AFM 66-267 (storage) and AFR 67-31 (shipment).

### 6-2. MARKING

The marking on the exterior of the container shall be in accordance with MIL-STD-129H.

**6-1/(6-2 Blank)**

# APPENDIX A
# REFERENCES

## A-1. SCOPE

This appendix lists publications that are referenced in this manual that contain information applicable to the maintenance of the Power Amplifier Test Set TS-4256/G.

## A-2. PUBLICATIONS

Air Force Suggestion Program ..... AFR 900-4

Consolidated Index of Army
Publications and Blank Forms ..... DA Pam 25-30

First Aid for Soldiers ..... FM 21-11

Maintenance Management Policy . ..... AFR 66-1

Marking for Shipment and Storage ..... MIL-STD-129H

Procedures for Destruction of Electronics
Material to Prevent Enemy Use
(Electronics Command) ..... TM 750-224-2

Product Quality Deficiency Report ..... SF 368

Report of Discrepancy (ROD) ..... SF 364

Reporting of Item and Packaging
Discrepancies ..... SECNAVINST 4355.18

Reporting of Transportation Discrepancies
in Shipment ..... NAVSUPINST 4610.33C

Ships Maintenance and Material Management (3-M)
Manual, Promulgation of ..... OPNAVINST 4790.2A

The Army Maintenance Management System (TAMMS) . . . DA Pam 738-750

Transportation Discrepancy Report (TDR) ..... SF 361

Unit, Intermediate Direct Support, and
General Support Maintenance Manual For
Amplifier, Power AM-7296/G
(NSN 5895-01-205-0912) ..... TM 11-5895-1304-24
Navy EE020-FD-MMI-010/Wll0-AM7296G
Air Force TO 31R2-4-561-2

Unsatisfactory Equipment Reporting ..... TO-00-35D54

# APPENDIX B
# MAINTENANCE ALLOCATION CHART

## B-1. GENERAL

This appendix provides a summary of the maintenance operations for the Power Amplifier Test Set TS-4256/G. It authorizes levels of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an aid in planning maintenance operations.

## B-2. MAINTENANCE FUNCTION

Maintenance functions will be limited to and defined as follows:

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 to 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. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.

e. Aline. To adjust specified variable elements of an item to bring about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

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

h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. Repair. The application of maintenance services (inspect, test, service, adjust, aline, calibrate, replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) 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.

j. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) 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.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipments/components.

**B-3. COLUMN ENTRIES**

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 noun names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3, Maintenance Functions. Column 3 lists the functions to be performed on the item listed in column 2. When items are listed without maintenance functions, it is solely for purpose of having the group numbers in the MAC and RPSTL coincide.

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 that 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 category. The number of task-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 maintenance allocation chart. Subcolumns of column 4 are as follows:

**UNIT**

C - Operator/Crew
O - Organizational/Unit

**INTERMEDIATE**

F - Direct Support
H - General Support
L - Special Repair Activity (SRA)

**DEPOT**

D - Depot

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

f. Column 6. Remarks. Column 6 contains an alphabetic code which leads to the remark in section IV, Remarks, which is pertinent to the item opposite the particular code.

**B-4. TOOL AND TEST EQUIPMENT REQUIREMENTS (SECT. III)**

a. Tool or Test Equipment Reference Code. The numbers in this column coincide with the numbers used in the tools and equipment column of the MAC. The numbers indicate the applicable tool or test equipment for the maintenance functions.

b. Maintenance Level. The codes in this column indicate the maintenance level allocated to tool or test equipment.

c. Nomenclature. This column lists the noun name and nomenclature of the tools and test equipment required to perform the maintenance functions.

d. National/NATO Stock Number. This column lists the National/NATO stock number of the specific tool or test equipment.

e. Tool Number. This column lists the manufacturer's part number of the tool followed by the Federal Supply Code for manufacturers (5-digit) in parentheses.

**B-5. REMARKS (SECT. IV)**

a. Reference Code. This code refers to the appropriate item in section II, column 6.

b. Remarks. This column provides the required explanatory information necessary to clarify items appearing in section II.

## SECTION II. MAINTENANCE ALLOCATION CHART

## FOR

## TEST SET, POWER AMPLIFIER TS-4256/G

| (1) Group Number | (2) Component/ Assembly | (3) Maintenance Function | (4) Maintenance Category C | O | F | H | D | (5) Tools and Equipment | (6) Remarks |
|---|---|---|---|---|---|---|---|---|---|
| 00 | Test Set, Power Amplifier TS-4256/G (900158-801) | Inspect | | | | L(0.1) | | | A |
| | | Replace | | | | L( 0.05) | | | |
| | | Test | | | | L(1.0) | | 1,2.4,5 | B |
| | | Repair | | | | L(1.0) | | 3 | B |
| 01 | Case, Test Set | Repair | | | | L(0.5) | | 3 | |
| 02 | Front Panel Assembly (1-94285.0000//A) | Repair | | | | L(1.0) | | 3 | C |
| | | Test | | | | L(1.0) | | 1,2,4,5 | |
| 0201 | CCA Al (1-94356.0000//8B) | Replace | | | | L(0.3) | | 3 | |
| | | Test | | | | L(0.1) | | 1 | |
| | | Repair | | | | L(1.0) | | 3 | |
| 03 | Cable Assembly W30 (3-94289.0000//B) | Replace | | | | L(0.05) | | | |
| | | Test | | | | L(0.3) | | 1 | D |
| | | Repair | | | | L(0.5) | | 3,6,7.8 | |
| 04 | Cable Assembly W27 (420556-801) | Replace | | | | L(0.05) | | | |
| | | Test | | | | L(0.3) | | 1 | D |
| | | Repair | | | | L(0.5) | | 3.7 | |
| 05 | Cable Assembly W73 (420557-801) | Replace | | | | L(0.05) | | | |
| | | Test | | | | L(0.3) | | 1 | D |
| | | Repair | | | | L(0.5) | | 3,7.8.9 | |

## SECTION III. TOOLS AND TEST EQUIPMENT REQUIREMENTS FOR TEST SET, POWER AMPLIFIER TS-4256/G

| Ref. Code | Maint. Level | Nomenclature | National/NATO Stock Number | Tool Number |
|---|---|---|---|---|
| 1 | L | Multimeter, Digital AN/USM-486 | 6625-01-145-2430 | FLUKE 8050A-01 |
| 2 | L | Power Supply PP-8202/G * | 6130-00-160-0827 | HP 6274B |
| 3 | L | Tool Kit, Elect. TK-17 (Incl. Metric) | 5180-01-195-0855 | JENSEN JTK-17RM |
| 4 | L | Test Probe to Banana Plug, Black | 6625-01-124-5005 | ITT POMONA 4410-48-0 |
| 5 | L | Test Probe to Banana Plug, Red | 6625-01-124-5004 | ITT POMONA 4410-48-2 |
| 6 | L | Crimp Tool | 5120-00-165-3912 | M2252011-01 |
| 7 | L | Insertion Tool | 5120-01-131-0140 | ITT CIT-16 |
| 8 | L | Extraction Tool | 5120-00-941-5470 | ITT CET-16-4 |
| 9 | L | Crimp Tool | | SORIAU 8457 |
| | | * PP-8214/G provides identical capability when source power is 230V, 50Hz. Air Force use only. | 6130-00-150-0028 | |

## SECTION IV. REMARKS
## FOR
## TEST SET, POWER AMPLIFIER TS-42561G

| Reference Code | Remarks |
|---|---|
| A | Inspect unit for visible physical damage. |
| B | Consists of test/repair to Front Panel assembly and cable assemblies. Cable Assembly W74 (P/N 422018-1) is non-repairable. Includes performance check. |
| C | Test/repair as part of next higher assembly. |
| D | Consists of point-to-point continuity checks. |

## APPENDIX C

## OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

---

### Section I. INTRODUCTION

### C-1. Scope

This appendix lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of operator's, organizational, direct support and general support maintenance of Power Amplifier Test Set, TS-4256/G. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

### C-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 by this RPSTL 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 ascending numeric sequence, with the parts in each group listed in ascending item number sequence. Figure numbers are listed directly beneath the group header.

b. Section III. Special Tools List. Not applicable.

c. Section IV. Cross-Reference Indexes. A list, in National item identification number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphameric 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. The figure number and item number index list figure and item numbers in numeric sequence and cross-references National stock number, Commercial and Government Entity Code, and part numbers.

C-3. Explanation of Columns (Section II and III)

a. Item No. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR Code (Column (2)). The source, maintenance, and recoverability (SMR) code is a five-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:

| Source Code | | Maintenance Code | | Recoverability Code |
|---|---|---|---|---|
| XX (1st two positions) | | XX | | X |
| How you get an item | 3rd position<br>Who can install, replace, or use the item | | 4th position<br>Who can do complete repair* on the item | Who determines disposition action on an unserviceable item |

**NOTE**

**Complete repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the 'repair" function in a use/user environment in order to restore serviceability to a failed item.**

(1) Source code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

| *Code* | *Explanation* |
|---|---|
| PA<br>PB<br>PC<br>PD<br>PE<br>PF<br>PG | Stocked items: use applicable NSN to request and/or requisition items with these source codes. They are authorized to the category indication by the code entered in the third position of the SMR code<br><br>**NOTE**<br>**Items coded PC are subject to deterioration.** |
| KB<br>KD<br>KF | Items with these codes are not to be requested and/or requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the third position of the SMR code. The complete kit must be requisitioned and applied. |

| *Code* | *Explanation* |
|---|---|
| MO - Made at Org/AVUM category<br>MF - Made at DS/AVIM category<br>MH - Made at GS category<br>ML - Made at Specialized Repair Activity (SRA)<br>MD - Made at Depot | Items with these codes are not to be requested and/or requisitioned individually. They must be made from bulk material which is identified by the part number in the description and usable on code (UOC) column and listed in the Bulk Material group of the repair parts list. If the item is authorized to you by the third position code of the SMR code, but the source code indicates it is made at a higher category, order the item from the higher category of maintenance. |
| AO - Assembled by Org/AVUM category<br>AF - Assembled by DS/AVIM category<br>AH - Assembled by GS category<br>AL - Assembled by SRA<br>AD - Assembled by Depot | Items with these codes are not to be requested and/or requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the category of maintenance indicated by the source code. If the third position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher category, order the item from the higher category of maintenance. |

| *Code* | *Explanation* |
|---|---|
| XA | Do not requisition an "XA' coded item. Order its next higher assembly. |
| XB | If an "XB' item is not available from salvage, order it using the CAGEC and part number given. |
| XC | Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number. |
| XD | Item is not stocked. Order an "XD' coded item through normal supply channels using the CAGEC and part number given, if no NSN is available. |

**NOTE**

**Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.**

(2) Maintenance code. Maintenance codes tell you the category of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance category authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following categories of maintenance.

| Code | Application/Explanation |
|---|---|
| C - | Crew or operator maintenance done within organizational or aviation maintenance. |
| O - | Organizational or aviation unit category can remove, replace, and use the item. |
| F - | Direct support or aviation intermediate category can remove, replace, and use the item. |
| H - | General support category can remove, replace, and use the item. |
| L - | Specialized repair activity can remove, replace, and use the item. |
| D - | Depot category can remove, replace, and use the item. |

(b) Themaintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance category with the capability to do complete repair (i.e., perform all authorized repair functions). This position will contain one of the following maintenance codes.

**NOTE**

**Some limited repair may be done on the item at a lower category of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.**

| *Code* | *Application/Explanation* |
|---|---|
| O - | Organizational or aviation unit is the lowest category that can do complete repair of the item. |
| F - | Direct support or aviation intermediate is the lowest category that can do complete repair of the item. |
| H - | General support is the lowest category that can do complete repair of the item. |
| L - | Specialized repair activity (designate the specialized repair activity) is the lowest category that can do complete repair of the item. |
| D - | Depot is the lowest category that can do complete repair of the item. |

| *Code* | *Application/Explanation* |
|---|---|
| Z - | Nonreparable. No repair is authorized. |
| B - | No repair is authorized. (No parts or special tools are authorized for the maintenance of a 'B" coded item.) However, the item Ray be reconditioned by adjusting, lubricating, etc., at the user category. |

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

| Recoverability codes | Application/Explanation |
|---|---|
| Z - | Nonreparable item. When unserviceable, condemn and dispose of the item at the category of maintenance shown in the third position of SMR code. |
| 0 - | Reparable item. When uneconomically reparable, condemn and dispose of the item at organizational or aviation unit category. |
| F - | Reparable item. When uneconomically reparable, condemn and dispose of the item at direct support or aviation intermediate category. |
| H - | Reparable item. When uneconomically reparable, condemn and dispose of the item at general support category. |
| D - | Reparable item. When beyond lower category repair capability, return to depot. Condemnation and disposal of item not authorized below depot category. |
| L - | Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA). |
| A - | Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions. |

c. CAGEC (Column (3)). The Commercial and Government Entity Code (CAGEC) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. Part Number (Column (4)). 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 you use an NSN to requisition an -ES item, the item you receive may have a different part number from the part ordered.**

e. Description and Usable on Code (UOC) (Column (5)). This column includes the following information.

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) The statement "END OF FIGURE" appears just below the last item description in Column (5) for a given figure in both section II and section III.

f. Qty (Column (6)). 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 the quantity is variable and the quantity may vary from application to application.

**C-4. Explanation of Columns (Section IV)**

a. National Stock Number (NSN) Index.

(1) Stock number column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN. When using this column to locate an item, ignore the first four digits of the NSN. When requisitioning items use the complete NSN (13 digits).

(2) Fig. column. This column lists the number of the figure where the item is identified/located. The illustrations are in numerical sequence in sections II and III.

(3) Item column. The item number identifies the item associated with the figure listed in the adjacent Fig. column. This item is also identified by the NSN listed on the same line.

b. Part Number Index. Part numbers in this index are listed by part number in ascending alphameric sequence.

(1) CAGEC column. This column lists the Commercial and Government Entity Code (CAGIC).

(2) Part number column. This column indicates the part number assigned to the item.

(3) Stock number column. This column lists the National stock number for the associated part number and manufacturer identified in the part number and CAGEC columns to the left.

(4) Fig. column. This column lists the number of the figure where the item is identified/located in sections II and III.

(5) Item column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

c. Figure and Item Number Index.

(1) Fig. column. This column lists the number of the figure where the item is identified/located in sections II and III.

(2) Item column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

(3) Stock number column. This column lists the National stock number for the item.

(4) CAGEC column. The Commercial and Government Entity Code (CAGEC) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(5) Part number column. Indicates the primary number used by the manufacturer (individual, 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 item.

**C-5. Special Information**

National stock numbers (NSN's) that are missing from P source coded items have been applied for and will be added to this TM by future change/revision when they are entered in the Army Master Data File (AMDF). Until the NSN's are established and published, submit exception requisitions to: Commander, US Army Communications Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-MM, Fort Monmouth, NJ 07703-5000 for the part required to support your equipment.

**NOTE**

**An item SMR coded "H" in the third, fourth, and fifth position is interpreted as intermediate for Air Force Repair.**

## C-6. How to Locate Repair Parts

a. When National stock number or part number is not known.

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) Third. Identify the item on the figure and note the item number.

(4) Fourth. Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.

(5) Fifth. Refer to the Part Number Index to find the NSN, if assigned.

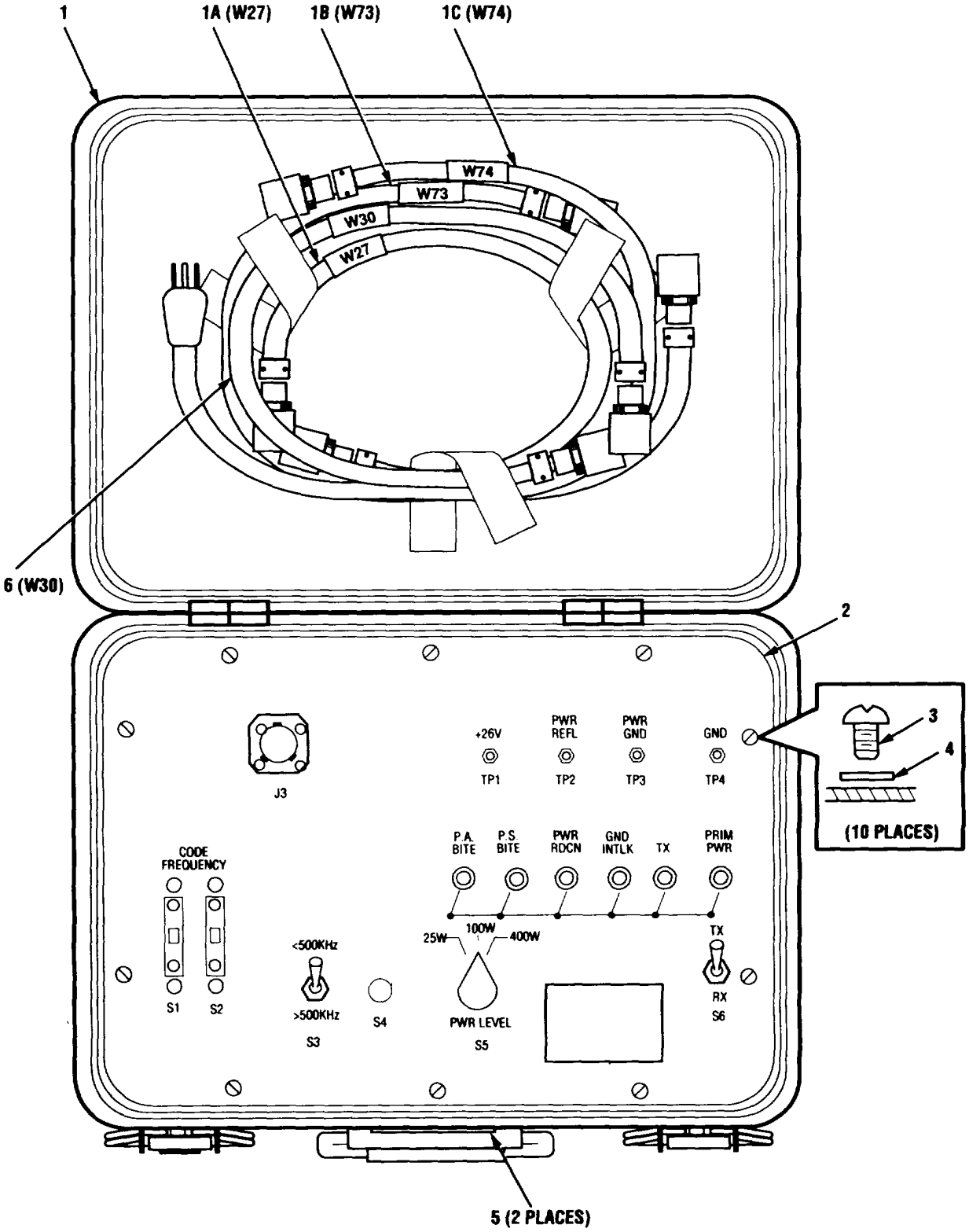
b. When National stock number or part number is known.

(1) First. Using the index of National stock numbers and part numbers, find the pertinent National stock number or part number. The NSN index is in National item identification number (NIIN) sequence (para C-4a(l)). The part numbers in the part number index are listed in ascending alphameric sequence (para C-4b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) Second. After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

## C-7. Abbreviations

Not applicable.

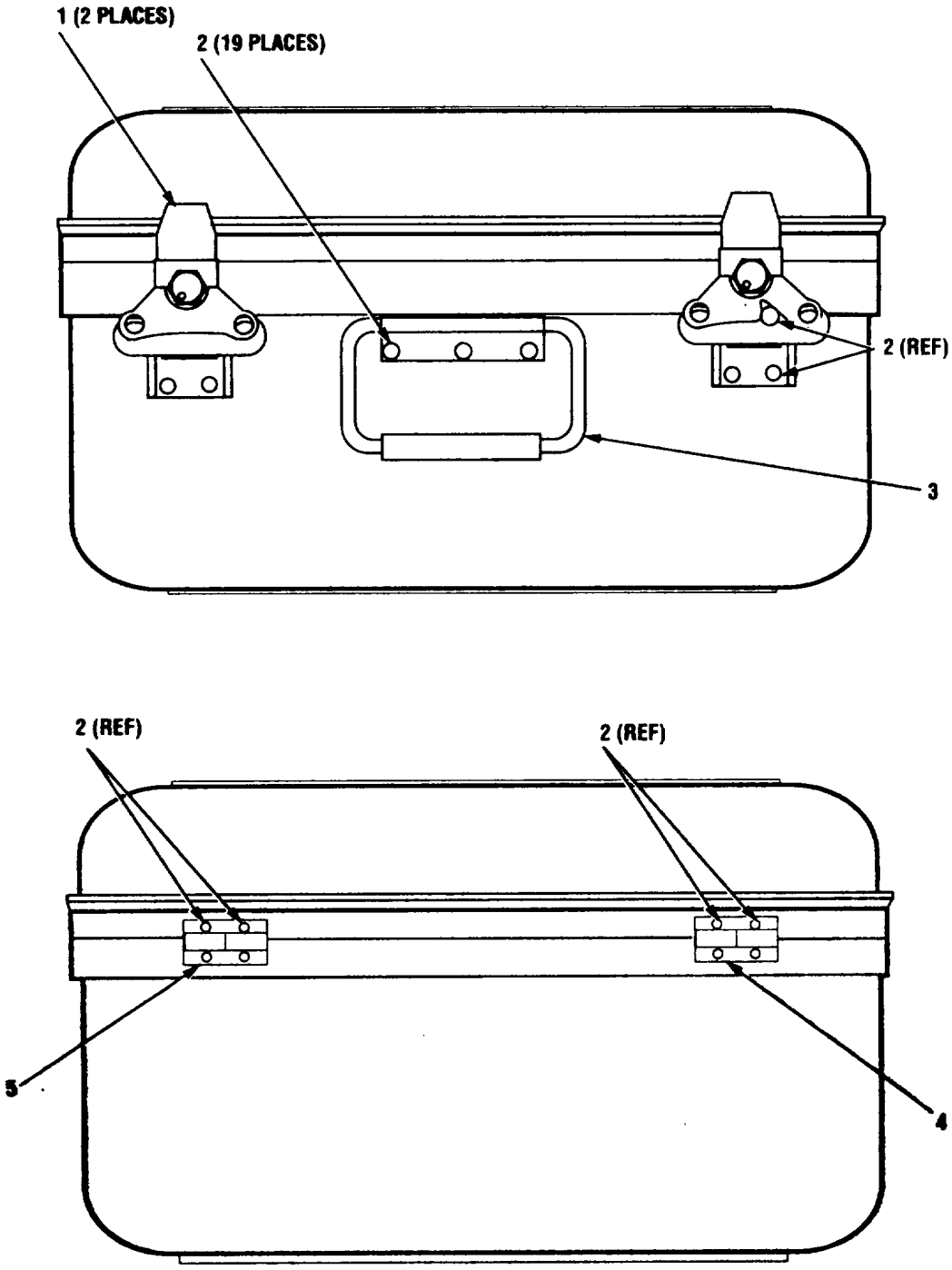



CE1 VB-001

*Figure C-1. Test Set, Power Amplifier TS-4256/G (900158-801)*

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | (5) DESCRIPTION AND USABLE ON CODES(UOC) | (6) QTY |
|---|---|---|---|---|---|
| | | | | GROUP 00 TEST SET, POWER AMPLIFIER TS-4256/G (900158-801) | |
| | | | | FIG. C-1 | |
| 1 | XBHLL | A3026 | 2-B0607.0000//D | CASE, TEST SET (SEE FIG.C-2 FOR PARTS BREAKDOWN) | 1 |
| 1A | PAHLL | A3026 | 420556-801 | CABLE ASSEMBLY, POWE (SEE FIG. 6 FOR PARTS BREAKDOWN) | 1 |
| 1B | PAHLL | A3026 | 420557-801 | CABLE ASSEMBLY, POWE (SEE FIG. 7 FOR PARTS BREAKDOWN) | 1 |
| 1C | PAHZZ | 37695 | 422018-1 | CABLE ASSEMBLY, POWE | 1 |
| 2 | XBHLL | A3026 | 1-94285.0000//A | FRONT PANEL ASSEMBL (SEE FIG.C-3 FOR PARTS BREAKDOWN) | 1 |
| 3 | PAHZZ | 96906 | MS51957-45 | SCREW, MACHINE | 10 |
| 4 | PAHZZ | 88044 | AN960C8L | WASHER, FLAT | 10 |
| 5 | XBHZZ | A3026 | 4-A2155.0003//D | PLATE, IDENTIFICATIO | 2 |
| 6 | PAHLL | A3026 | 3-94289.0000//B | CABLE ASSEMBLY, POWE (SEE FIG.C-5 FOR PARTS BREAKDOWN) | 1 |

END OF FIGURE




CE1VB-002

*Figure C-2. Case, Test Set (2-B0607.0000//D)*

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | (5) DESCRIPTION AND USABLE ON CODES(UOC) | (6) QTY |
|---|---|---|---|---|---|
| | | | | GROUP 01 CASE, TEST SET (2-B0607.0000//D) | |
| | | | | FIG. C-2 | |
| 1 | XBHZZ | 24995 | 22002022 | LATCH | 2 |
| 2 | XBHZZ | 24995 | 33500035 | RIVET ASSEMBLY | 19 |
| 3 | XBHZZ | 24995 | 31000691 | HANDLE, BOW | 1 |
| 4 | XBHZZ | 24995 | 24000450 | HINGE | 1 |
| 5 | XBHZZ | 24995 | 24000460 | HINGE | 1 |
| | | | | END OF FIGURE | |

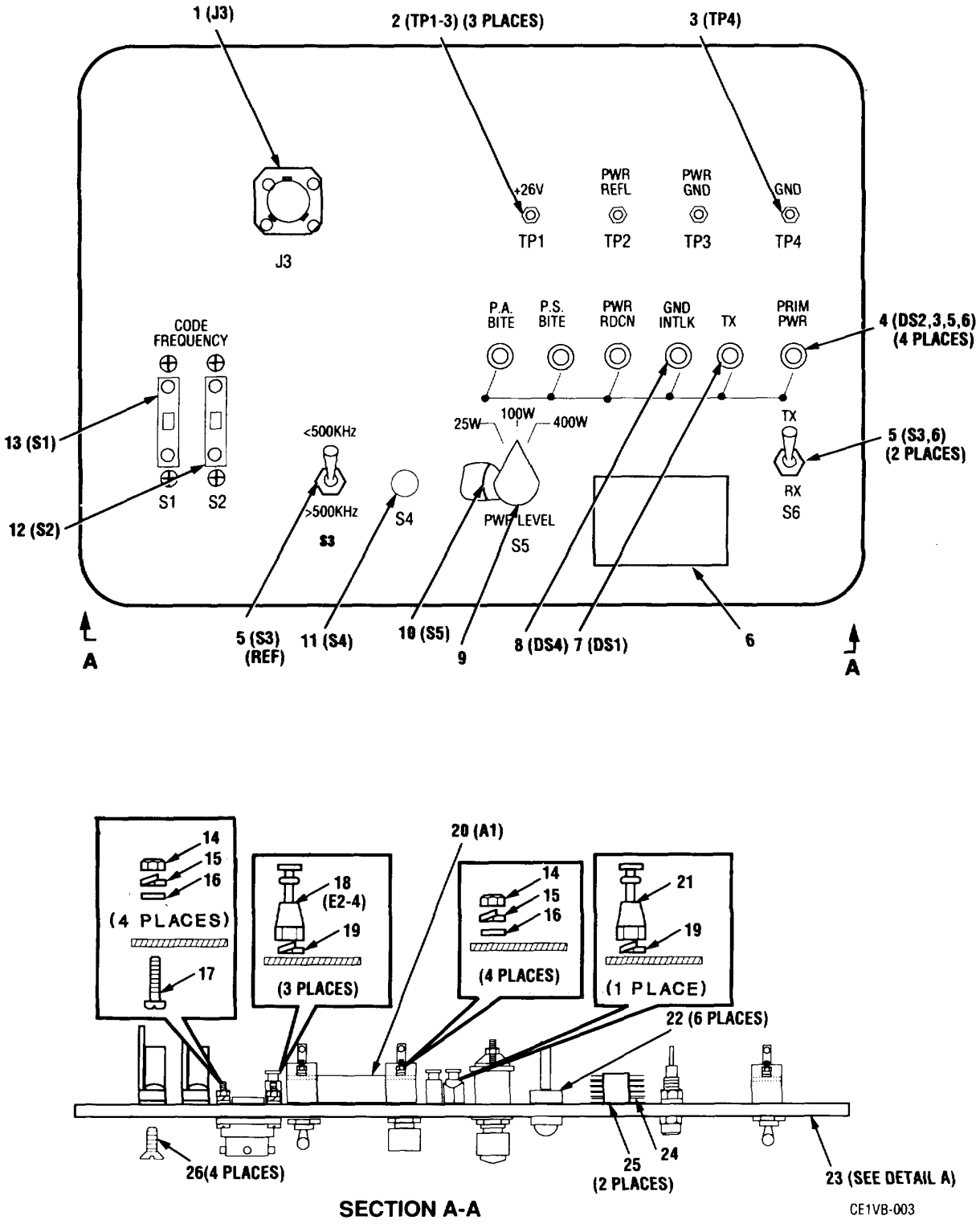
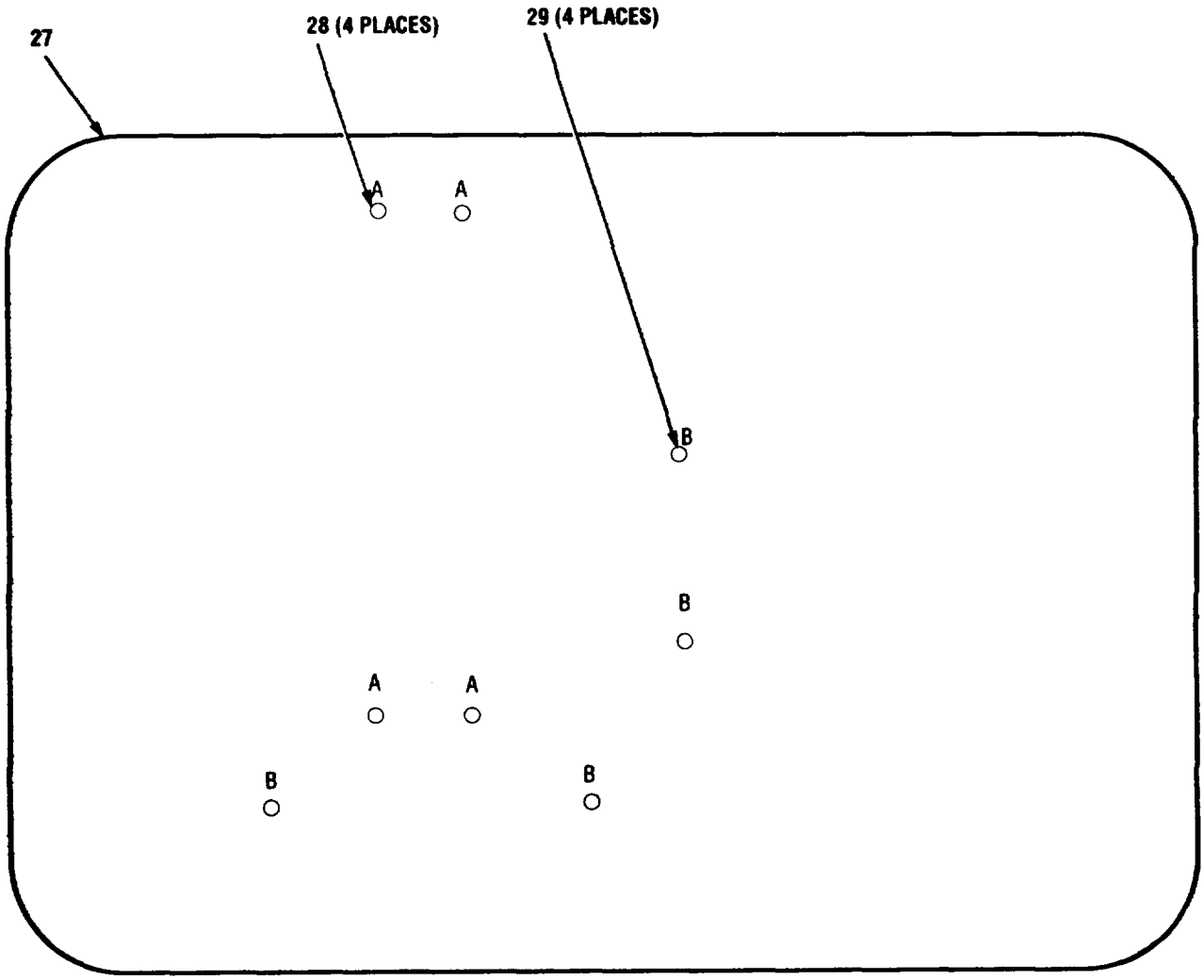



*Figure C-3. Front Panel Assembly (1-94285.0000//A) (Sheet 1 of 2)*

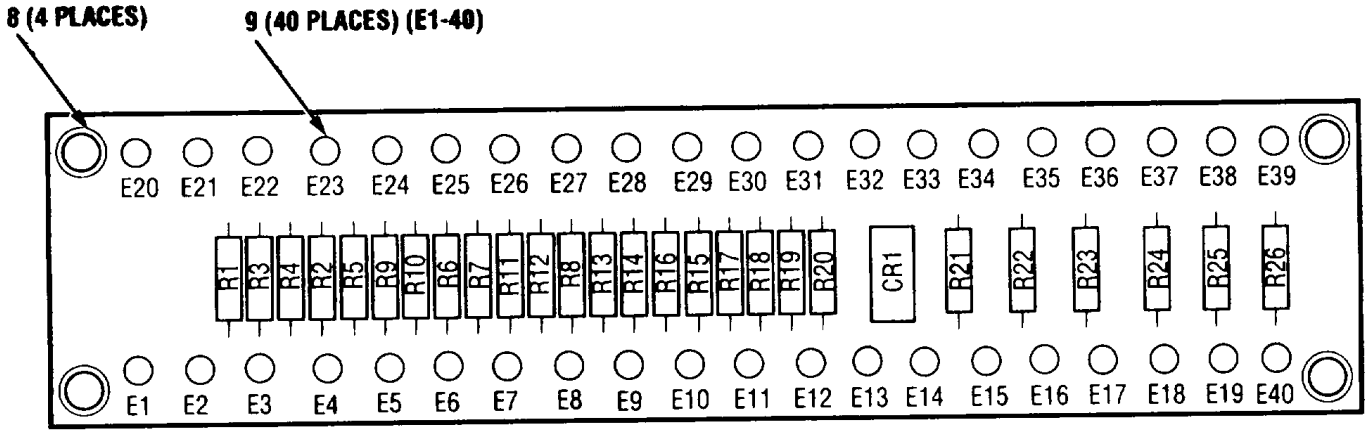



**DETAIL A**

CE1VBO04

*Figure C-3. Front Panel Assembly (1-94285.0000//A) (Sheet 2 of 2)*

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | (5) DESCRIPTION AND USABLE ON CODES(UOC) | (6) QTY |
|---|---|---|---|---|---|
| | | | | GROUP 02 FRONT PANEL ASSEMBLY (1-94285.0000//A) | |
| | | | | FIG. C-3 | |
| 1 | PAHZA | 96906 | MS27508E14B355 | CONNECTOR, RECEPTACL | 1 |
| 2 | PAHZZ | A3026 | 4-36246.0000//N | JACK, TIP | 3 |
| 3 | PAHZZ | A3026 | 4-06746.0000//N | JACK, TIP | 1 |
| 4 | PAHZZ | 37695 | 615539-6 | LIGHT EMITTING DIOD | 4 |
| 5 | PAHZZ | A3026 | 4-32151.0004//M | SWITCH, TOGGLE | 2 |
| 6 | XBHZZ | A3026 | 4-A2155.0003//D | PLATE, IDENTIFICATIO | 1 |
| 7 | PAHZZ | 50434 | HLMP-3401 | LIGHT EMITTING DIOD | 1 |
| 8 | PAHZZ | 28480 | HLMP-3507 | LIGHT EMITTING DIOD | 1 |
| 9 | PAHZZ | 94033 | 70-4-2G | KNOB | 1 |
| 10 | PAHZZ | A3026 | 4-22015.0001//M | SWITCH, ROTARY | 1 |
| 11 | PAHZZ | A3026 | 4-32150.0003//M | SWITCH, PUSH | 1 |
| 12 | PAHZZ | 91812 | 28162 | SWITCH, PUSH | 1 |
| 13 | PAHZZ | 91812 | 28165 | SWITCH, PUSH | 1 |
| 14 | PAHZZ | A3026 | 3-75883-001 | NUT, PLAIN, HEXAGON | 8 |
| 15 | PAHZZ | A3026 | 3-10311-004 | WASHER, LOCK | 8 |
| 16 | PAHZZ | 96906 | MS15795-803 | WASHER, FLAT | 8 |
| 17 | PAHZZ | 96906 | MS51957-14 | SCREW, MACHINE | 4 |
| 18 | PAHZZ | A3026 | 3-72284.0002//C | TERMINAL, LUG | 3 |
| 19 | PAHZZ | A3026 | 3-10336-004 | WASHER, LOCK | 4 |
| 20 | PAHLL | A3026 | 1-94356.0000//B | CIRCUIT CARD ASSEMB (SEE FIG.C-4 FOR PARTS BREAKDOWN) | 1 |
| 21 | PAHZZ | 80063 | A3031352-3 | POST, ELECTRICAL, MEC | 1 |
| 22 | PAHZZ | A3026 | 4-34260.0000//M | HOLDER, LAMP | 6 |
| 23 | XBHLL | A3026 | 2-A2133.0000//D | FRONT PANEL ASSEMBL | 1 |
| 24 | XBHHH | A3026 | 4-94414.0000//B | WIRING HARNESS | 1 |
| 25 | XBHZZ | A3026 | 4-A2156.0000//D | BAND, MARKER | 2 |
| 26 | PAHZZ | 96906 | MS51959-3 | SCREW, MACHINE | 4 |
| 27 | XBHZZ | A3026 | 2-B1937.0000//D | FRONT PANEL | 1 |
| 28 | PAHZZ | 46384 | FHS-M2.5-12 | INSERT, SCREW, THREAD | 4 |
| 29 | PAHZZ | 46384 | FHS-M3-6 | STUD, SELF-LOCKING | 4 |
| | | | | END OF FIGURE | |




**LEGEND**

| REF. DES. | ITEM NO. | REF. DES. | ITEM NO. | REF. DES. | ITEM NO. |
|---|---|---|---|---|---|
| CR1 | 1 | R11 | 3 | R22 | 6 |
| R1 | 2 | R12 | 3 | R23 | 6 |
| R2 | 2 | R13 | 2 | R24 | 6 |
| R3 | 3 | R14 | 3 | R25 | 6 |
| R4 | 3 | R15 | 2 | R26 | 7 |
| R5 | 2 | R16 | 3 | | |
| R6 | 2 | R17 | 2 | | |
| R7 | 2 | R18 | 3 | | |
| R8 | 2 | R19 | 4 | | |
| R9 | 3 | R20 | 5 | | |
| R10 | 3 | R21 | 6 | | |

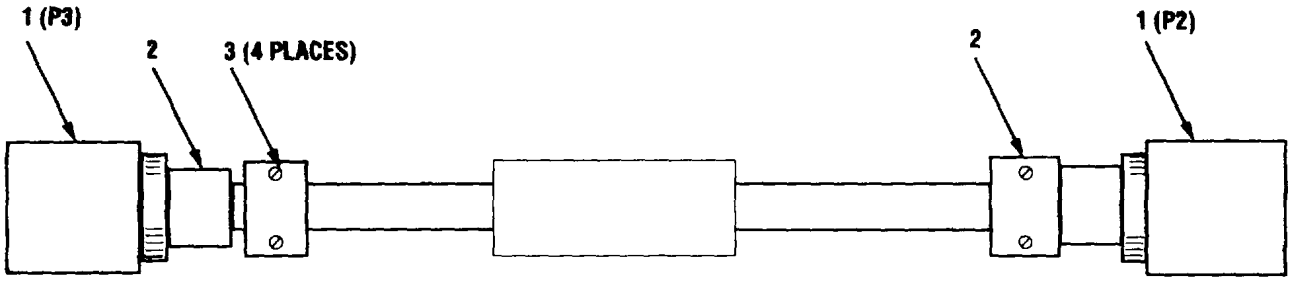
**NOTE: ALL REFERENCE DESIGNATORS SHOULD BE PRECEOED BY AN A1**

CE1VB-005

*Figure C-4. Circuit Card Assembly A1 (1-94356.0000//B)*

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | (5) DESCRIPTION AND USABLE ON CODES(UOC) | (6) QTY |
|---|---|---|---|---|---|
| | | | | GROUP 0201 CIRCUIT CARD ASSEMBLY (A1) (1-94356.0000//B) | |
| | | | | FIG. C-4 | |
| 1 | PAHZZ | 81349 | JANIN3611 | SEMICONDUCTOR DEVIC | 1 |
| 2 | PAHZZ | 81349 | RCR07G273JS | RESISTOR, FIXED, COMP | 9 |
| 3 | PAHZZ | 81349 | RCR07G512JS | RESISTOR, FIXED, COMP | 9 |
| 4 | PAHZZ | 81349 | RNC55K2432FS | RESISTOR, FIXED, FILM | 1 |
| 5 | PAHZZ | 81349 | RNC55K1OO2FS | RESISTOR, FIXED, FILM | 1 |
| 6 | PAHZZ | 81349 | RCR20G202JS | RESISTOR, FIXED, COMP | 5 |
| 7 | PAHZZ | 81349 | RCR20G122JS | RESISTOR, FIXED, COMP | 1 |
| 8 | PAHZZ | A3026 | 4-54733.0000//C | BUSHING | 4 |
| 9 | PAHZZ | 12436 | 666273-074 | TERMINAL, LUG | 40 |

END OF FIGURE

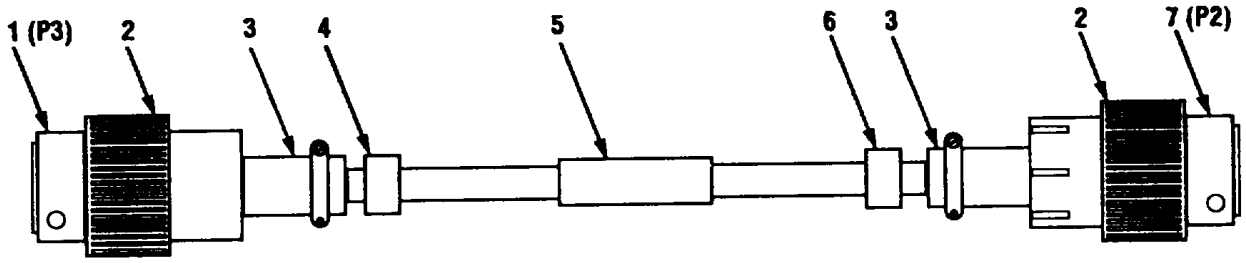



**NOTE: ALL REFERTENCE DESIGNATORS SHOULD BE PRECEDED By W3V**

CE1VB-06

*Figure C-5. Cable Assembly W30 (3-94289.0000//B)*

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | (5) DESCRIPTION AND USABLE ON CODES(UOC) | (6) QTY |
|---|---|---|---|---|---|
| | | | | GROUP 03 CABLE ASSEMBLY (W30) (3-94289.0000//B) | |
| | | | | FIG. C-5 | |
| 1 | PAHZZ | 96906 | MS27473T14F35PN | CONNECTOR, RECEPTACL | 2 |
| 2 | PAHZZ | 81349 | M85049/49-2-14W | CLAMP, CABLE, ELECTRI | 2 |
| 3 | PAHZZ | 96906 | MS51957-28 | SCREW, MACHINE | 4 |
| | | | | END OF FIGURE | |



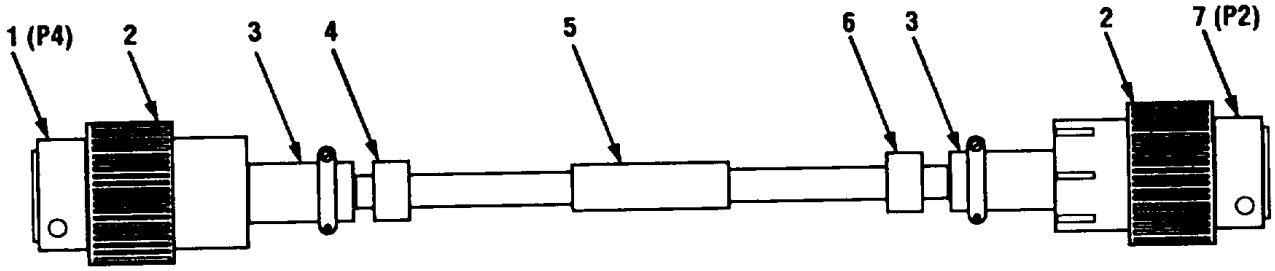

**NOTE: ALL REFERENCE DESIGNATORS SHOULD BE PRECEDED BY A W27**

CE1VB010

*Figure C-6. Cable Assembly W27 (420556-801)*

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | (5) DESCRIPTION AND USABLE ON CODES(UOC) | (6) QTY |
|---|---|---|---|---|---|
| | | | | GROUP 04 CABLE ASSEMBLY (W27) (420556-801) | |
| | | | | FIG. C-6 | |
| 1 | PAHZZ | 59610 | 841-34-850-SP4 | CONNECTOR, RECEPTACL | 1 |
| 2 | XBHZZ | 59610 | 841-30-003-SP4 | BACKSHELL, CONNECAOR | 2 |
| 3 | XBHZZ | A3026 | 4-A2166.0000//D | INSULATION SLEEVING | 2 |
| 4 | XBHZZ | A3026 | 4-A2109.0011//D | BAND, MARKER | 1 |
| 5 | XBHZZ | A3026 | 4-A2109.0001//D | BAND, MARKER | 1 |
| 6 | XBHZZ | A3026 | 4-A2109.0010//D | BAND, MARKER | 1 |
| 7 | PAHZZ | 59610 | 841-34-810-SP4 | CONNECTOR, RECEPTACL | 1 |

END OF FIGURE




**NOTE: ALL REFERENCE DESIGNATORS SHOULD BE PRECEDED BY A W73**

CE1VB011

*Figure C-7. Cable Assembly W73 (420557-801)*

| (1) ITEM NO | (2) SMR CODE | (3) CAGEC | (4) PART NUMBER | (5) DESCRIPTION AND USABLE ON CODES(UOC) | (6) QTY |
|---|---|---|---|---|---|
| | | | | GROUP 05 CABLE ASSEMBLY (W73) (420557-801) | |
| | | | | FIG. C-7 | |
| 1 | PAHZZ | 59610 | 841-31-850-SP4 | CONNECTOR, RECEPTACL | 1 |
| 2 | XBHZZ | 59610 | 841-30-003-SP4 | BACKSHELL, CONNECAOR | 2 |
| 3 | XBHZZ | A3026 | 4-A2166.0000//D | INSULATION SLEEVING | 2 |
| 4 | XBHZZ | A3026 | 4-A2109.0012//D | BAND, MARKER | 1 |
| 5 | XBHZZ | A3026 | 4-A2109.0002//D | BAND, MARKER | 1 |
| 6 | XBHZZ | A3026 | 4-A2109.0010//D | BAND, MARKER | 1 |
| 7 | PAHZZ | 59610 | 841-31-810-SP4 | CONNECTOR, RECEPTACL | 1 |

END OF FIGURE

## CROSS-REFERENCE INDEXES

| STOCK NUMBER | FIGURE NO. | ITEM NO. | STOCK NUMBER | FIGURE NO. | ITEM NO. |
|---|---|---|---|---|---|
| 5305-00-054-5648 | C-3 | 17 | | | |
| 5305-00-054-6652 | C-5 | 3 | | | |
| 5305-00-054-6670 | C-1 | 3 | | | |
| 5905-00-111-1679 | C-4 | 3 | | | |
| 5905-00-119-3504 | C-4 | 2 | | | |
| 5905-00-138-6996 | C-4 | 4 | | | |
| 5905-00-141-0592 | C-4 | 7 | | | |
| 5905-00-479-3990 | C-4 | 5 | | | |
| 5935-00-534-6523 | C-3 | 1 | | | |
| 5310-00-558-6207 | C-1 | 4 | | | |
| 5310-00-595-6211 | C-3 | 16 | | | |
| 5355-00-616-9604 | C-3 | 9 | | | |
| 5305-00-727-8833 | C-3 | 26 | | | |
| 5905-00-935-8539 | C-4 | 6 | | | |
| 5961-00-957-6865 | C-4 | 1 | | | |
| 5980-01-170-1544 | C-3 | 7 | | | |
| 5980-01-178-0898 | C-3 | 8 | | | |
| 5935-01-178-5257 | C-5 | 2 | | | |
| 5930-01-240-4198 | C-3 | 12 | | | |
| 5930-01-241-4623 | C-3 | 13 | | | |
| 5980-01-243-8475 | C-3 | 4 | | | |

| CAGEC | PART NUMBER | STOCK NUMBER | FIG. | ITEM |
|---|---|---|---|---|
| 88044 | AN960C8L | 5310-00-558-6207 | C-1 | 4 |
| 80063 | A3031352-3 | | C-3 | 21 |
| 46384 | FHS-M2.5-12 | | C-3 | 28 |
| 46384 | FHS-M3-6 | | C-3 | 29 |
| 50434 | HLMP-3401 | 5980-01-170-1544 | C-3 | 7 |
| 28480 | HLMP-3507 | 5980-01-178-0898 | C-3 | 8 |
| 81349 | JAN1N3611 | 5961-00-957-6865 | C-4 | 1 |
| 96906 | M515795-803 | 5310-00-595-6211 | C-3 | 16 |
| 96906 | M527473T14F35PN | | C-5 | 1 |
| 96906 | MS27508E14B35S | 5935-00-534-6523 | C-3 | 1 |
| 96906 | MS51957-14 | 5305-00-054-5648 | C-3 | 17 |
| 96906 | MS51957-28 | 5305-00-054-6652 | C-5 | 3 |
| 96906 | MS51957-45 | 5305-00-054-6670 | C-1 | 3 |
| 96906 | MS51959-3 | 5305-00-727-8833 | C-3 | 26 |
| 81349 | M85049/49-2-14W | 5935-01-178-5257 | C-5 | 2 |
| 81349 | RCR07G273JS | 5905-00-119-3504 | C-4 | 2 |
| 81349 | RCR07G512JS | 5905-00-111-1679 | C-4 | 3 |
| 81349 | RCR20G122JS | 5905-00-141-0592 | C-4 | 7 |
| 81349 | RCR20G202JS | 5905-00-935-8539 | C-4 | 6 |
| 81349 | RNC55K1002FS | 5905-00-479-3990 | C-4 | 5 |
| 81349 | RNC55K2432FS | 5905-00-138-6996 | C-4 | 4 |
| A3026 | 1-94285.0000//A | | C-1 | 2 |
| A3026 | 1-94356.0000//B | | C-3 | 20 |
| A3026 | 2-A2133.0000//D | | C-3 | 23 |
| A3026 | 2-B0607.0000//D | | C-1 | 1 |
| A3026 | 2-B1937.0000//D | | C-3 | 27 |
| 24995 | 22002022 | | C-2 | 1 |
| 24995 | 24000450 | | C-2 | 4 |
| 24995 | 24000460 | | C-2 | 5 |
| 91812 | 28162 | 5930-01-240-4198 | C-3 | 12 |
| 91812 | 28165 | 5930-01-241-4623 | C-3 | 13 |
| A3026 | 3-10311-004 | | C-3 | 15 |
| A3026 | 3-10336-004 | | C-3 | 19 |
| A3026 | 3-72284.0002//C | | C-3 | 18 |
| A3026 | 3-75883-001 | | C-3 | 14 |
| A3026 | 3-94289.0000//B | | C-1 | 6 |
| 24995 | 31000691 | | C-2 | 3 |
| 24995 | 33500035 | | C-2 | 2 |
| A3026 | 4-A2109.0001//D | | C-6 | 5 |
| A3026 | 4-A2109.0002//D | | C-7 | 5 |
| A3026 | 4-A2109.0010//D | | C-6 | 6 |
| | | | C-7 | 6 |
| A3026 | 4-A2109.0011//D | | C-6 | 4 |
| A3026 | 4-A2109.0012//D | | C-7 | 4 |
| A3026 | 4-A2155.0003//D | | C-1 | 5 |
| | | | C-3 | 6 |
| A3026 | 4-A2156.0000//D | | C-3 | 25 |
| A3026 | 4-A2166.0000//D | | C-6 | 3 |
| | | | C-7 | 3 |
| A3026 | 4-06746.000//N | | C-3 | 3 |
| A3026 | 4-22015.0001//M | | C-3 | 10 |

| CAGEC | PART NUMBER | STOCK NUMBER | FIG. | ITEM |
|---|---|---|---|---|
| A3026 | 4-32150.0003//M | | C-3 | 11 |
| A3026 | 4-32151.0004//M | | C-3 | 5 |
| A3026 | 4-34260.0000//M | | C-3 | 22 |
| A3026 | 4-36246.0000//N | | C-3 | 2 |
| A3026 | 4-54733.0000//C | | C-4 | 8 |
| A3026 | 4-94414.0000//B | | C-3 | 24 |
| A3026 | 420556-801 | | C-1 | 1A |
| A3026 | 420557-801 | | C-1 | 1B |
| 37695 | 422018-1 | | C-1 | 1C |
| 37695 | 615539-6 | 5980-01-243-8475 | C-3 | 4 |
| 12436 | 666273-074 | | C-4 | 9 |
| 94033 | 70-4-2G | 5355-00-616-9604 | C-3 | 9 |
| 59610 | 841-30-003-SP4 | | C-6 | 2 |
| | | | C-7 | 2 |
| 59610 | 841-31-810-SP4 | | C-7 | 7 |
| 59610 | 841-31-850-SP4 | | C-7 | 1 |
| 59610 | 841-34-810-SP4 | | C-6 | 7 |
| 59610 | 841-34-850-5P4 | | C-6 | 1 |

| STOCK NUMBER | FIGURE NO. | ITEM NO. | STOCK NUMBER | FIGURE NO. | ITEM NO. |
|---|---|---|---|---|---|
| C-1 | 1 | | A3026 | 2-B0607.0000//D | |
| C-1 | 1A | | A3026 | 420556-801 | |
| C-1 | 1B | | A3026 | 420557-801 | |
| C-1 | 1C | | 37695 | 422018-1 | |
| C-1 | 2 | | A3026 | 1-94285.0000//A | |
| C-1 | 3 | 5305-00-054-6670 | 96906 | MS51957-45 | |
| C-1 | 4 | 5310-00-558-6207 | 88044 | AN960C8L | |
| C-1 | 5 | | A3026 | 4-A2155.0003//D | |
| C-1 | 6 | | A3026 | 3-94289.0000//B | |
| C-2 | 1 | | 24995 | 22002022 | |
| C-2 | 2 | | 24995 | 33500035 | |
| C-2 | 3 | | 24995 | 31000691 | |
| C-2 | 4 | | 24995 | 24000450 | |
| C-2 | 5 | | 24995 | 24000460 | |
| C-3 | 1 | 5935-00-534-6523 | 96906 | MS27508E14B35S | |
| C-3 | 2 | | A3026 | 4-36246.0000//N | |
| C-3 | 3 | | A3026 | 4-06746.0000//N | |
| C-3 | 4 | 5980-01-243-8475 | 37695 | 615539-6 | |
| C-3 | 5 | | A3026 | 4-32151.0004//M | |
| C-3 | 6 | | A3026 | 4-A2155.0003//D | |
| C-3 | 7 | 5980-01-170-1544 | 50434 | HLMP-3401 | |
| C-3 | 8 | 5980-01-178-0898 | 28480 | HLMP-3507 | |
| C-3 | 9 | 5355-00-616-9604 | 94033 | 70-4-2G | |
| C-3 | 10 | | A3026 | 4-22015.0001//M | |
| C-3 | 11 | | A3026 | 4-32150.0003//M | |
| C-3 | 12 | 5930-01-240-4198 | 91812 | 28162 | |
| C-3 | 13 | 5930-01-241-4623 | 91812 | 28165 | |
| C-3 | 14 | | A3026 | 3-75883-001 | |
| C-3 | 15 | | A3026 | 3-10311-004 | |
| C-3 | 16 | 5310-00-595-6211 | 96906 | MS15795-803 | |
| C-3 | 17 | 5305-00-054-5648 | 96906 | MS51957-14 | |
| C-3 | 18 | | A3026 | 3-72284.0002//C | |
| C-3 | 19 | | A3026 | 3-10336-004 | |
| C-3 | 20 | | A3026 | 1-94356.0000//B | |
| C-3 | 21 | | 80063 | A3031352-3 | |
| C-3 | 22 | | A3026 | 4-34260.0000//M | |
| C-3 | 23 | | A3026 | 2-A2133.0000//D | |
| C-3 | 24 | | A3026 | 4-94414.0000//B | |
| C-3 | 25 | | A3026 | 4-A2156.0000//D | |
| C-3 | 26 | 5305-00-727-8833 | 96906 | MS51959-3 | |
| C-3 | 27 | | A3026 | 2-B1937.0000//D | |
| C-3 | 28 | | 46384 | FHS-M2.5-12 | |
| C-3 | 29 | | 46384 | FHS-M3-6 | |
| C-4 | 1 | 5961-00-957-6865 | 81349 | JAN1N3611 | |
| C-4 | 2 | 5905-00-119-3504 | 81349 | RCR07G273JS | |
| C-4 | 3 | 5905-00-111-1679 | 81349 | RCR07G512JS | |
| C-4 | 4 | 5905-00-138-6996 | 81349 | RNC55K2432FS | |
| C-4 | 5 | 5905-00-479-3990 | 81349 | RNC55K1002FS | |
| C-4 | 6 | 5905-00-935-8539 | 81349 | RCR20G202JS | |
| C-4 | 7 | 5905-00-141-0592 | 81349 | RCR20G122JS | |
| C-4 | 8 | | A3026 | 4-54733.0000//C | |

FIGURE AND ITEM NUMBER INDEX

| FIG | ITEM | STOCK NUMBER | CAGEC | PART NUMBER |
|---|---|---|---|---|
| C-4 | 9 | | 12436 | 666273-074 |
| C-5 | 1 | | 96906 | MS27473T14F35PN |
| C-5 | 2 | 5935-01-178-5257 | 81349 | M85049/49-2-14W |
| C-5 | 3 | 5305-00-054-6652 | 96906 | MS51957-28 |
| C-6 | 1 | | 59610 | 841-34-850-SP4 |
| C-6 | 2 | | 59610 | 841-30-003-SP4 |
| C-6 | 3 | | A3026 | 4-A2166.0000//D |
| C-6 | 4 | | A3026 | 4-A2109.0011//D |
| C-6 | 5 | | A3026 | 4-A2109.0001//D |
| C-6 | 6 | | A3026 | 4-A2109.0010//D |
| C-6 | 7 | | 59610 | 841-34-810-SP4 |
| C-7 | 1 | | 59610 | 841-31-850-SP4 |
| C-7 | 2 | | 59610 | 841-30-003-SP4 |
| C-7 | 3 | | A3026 | 4-A2166.0000//D |
| C-7 | 4 | | A3026 | 4-A2109.0012//D |
| C-7 | 5 | | A3026 | 4-A2109.0002//D |
| C-7 | 6 | | A3026 | 4-A2109.0010//D |
| C-7 | 7 | | 59610 | 841-31-810-SP4 |

# GLOSSARY

## Section I. ABBREVIATIONS AND ACRONYMS

BCD ..... Binary Coded Decimal
BIT ..... Built In Test
BITE ..... Built-In-Test Equipment

CCA ..... Circuit Card Assembly

DMM ..... Digital Multimeter

EIR ..... Equipment Improvement Recommendations

FO ..... Fold-Out

GND ..... Ground

IAW ..... In Accordance With

KHz ..... Kilohertz

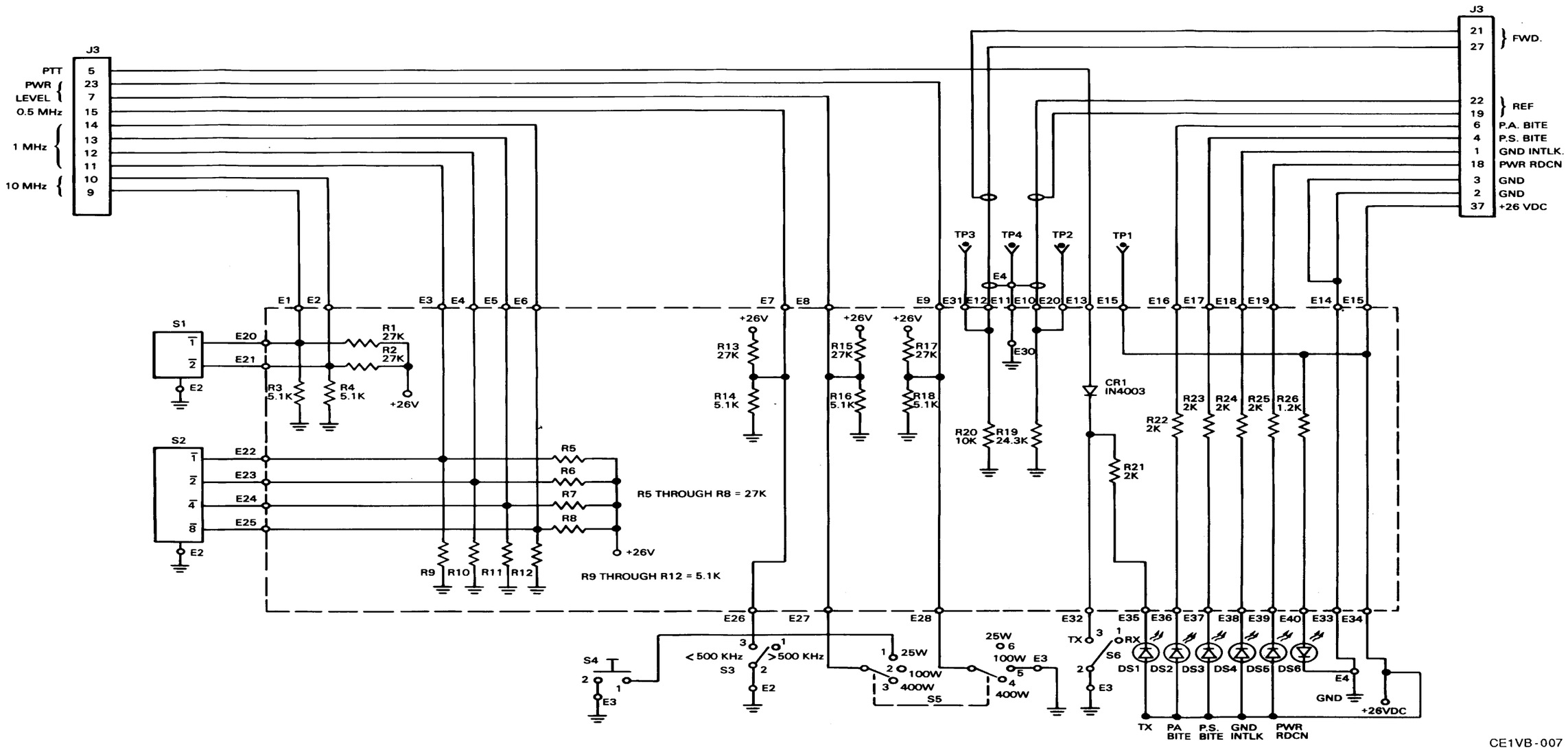
LED ..... Light-emitting Diode

MAC ..... Maintenance Allocation Chart
MDCS ..... Maintenance Data Collection Subsystem
MHz ..... Megahertz
MIL STD ..... Military Standard
MWO ..... Modification Work Order

NSN. ..... National Stock Number

P/N ..... Part Number
PA ..... Power Amplifier
PTT ..... Push-To-Talk

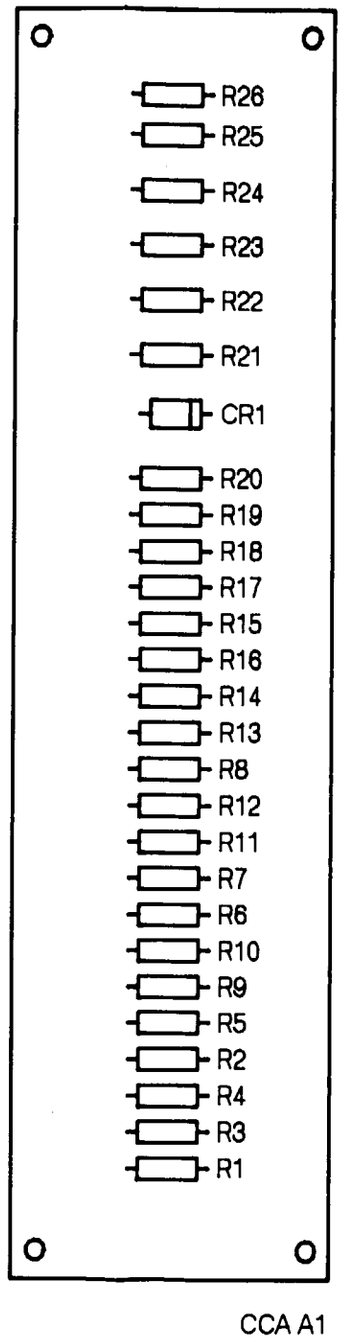
RF ..... Radio Frequency
ROD ..... Report of Discrepancy
RPSTL ..... Repair Parts and Special Tools List
RX ..... Receive
SRA ..... Special Repair Activity
TDR ..... Transportation Discrepancy Report
TP ..... Test Point
TX ..... Transmit
UUT ..... Unit-Under-Test
VDC ..... Volts Direct Current
VSWR ..... Voltage Standing Wave Ratio
W ..... Watt




CE1VB-007

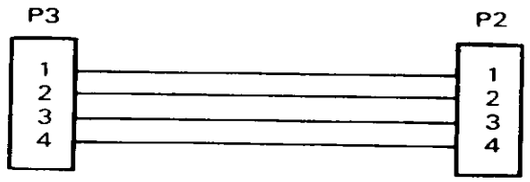
*FO-1. SCHEMATIC DIAGRAM, TS-4256/G*

**ARMY TM 11 625-3216-14&P NAVY ET906AB-OMP-10/TS-4256G AIR FORCE TO 33A1-2-285-1 FIGURE FO-1**

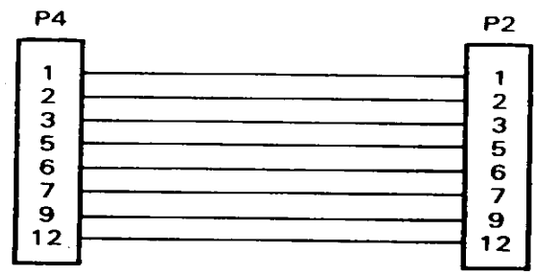



CE1VB-008

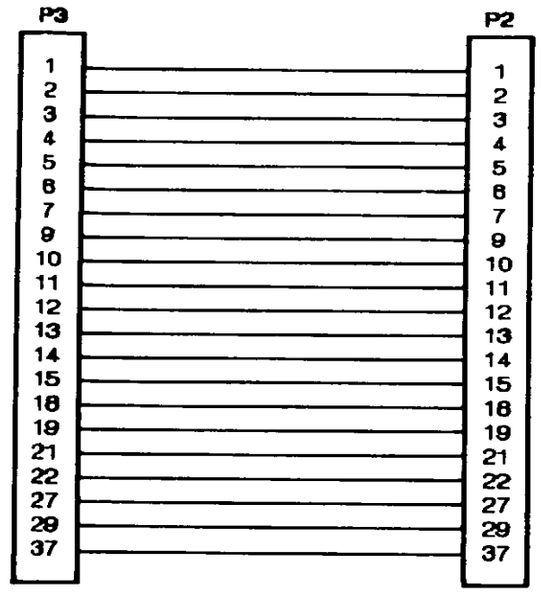
*FO-2. TEST SET CCA AI PARTS LOCATION DIAGRAM*



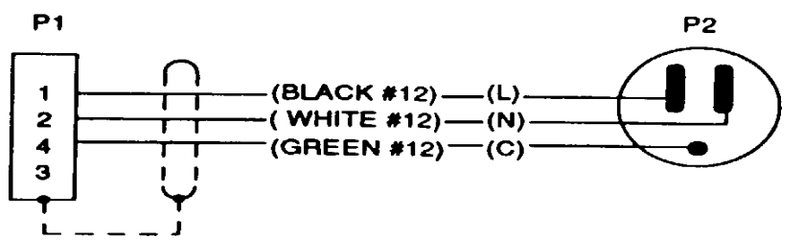

**PIN ASSIGNMENTS FOR CABLE ASSEMBLY W27**




**PIN ASSIGNMENTS FOR CABLE ASSEMBLY W73**




**PIN ASSIGNMENTS FOR CABLE ASSEMBLY W30**




**PIN ASSIGNMENTS FOR CABLE ASSEMBLY W74**

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*FO-3. PIN ASSIGNMENTS, CABLE ASSY W27, W30, W73, W74*

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