TECHNICAL MANUAL

ORGANIZATIONAL, DIRECT SUPPORT, AND

GENERAL SUPPORT MAINTENANCE MANUAL

(INCLUDING DEPOT REPAIR PARTS AND SPECIAL TOOLS LIST)

FOR

SWEEP SIGNAL GENERATOR
SG-677/U
NSN 6625-00-957-0439

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HEADQUARTERS DEPARTMENT OF THE ARMY

DECEMBER 1980

WARNING

BE EXTREMELY CAREFUL
when performing troubleshooting procedures; dangerous voltages are present in the equipment.

READ AND OBSERVE
the referenced warnings contained herein and in the technical manuals provided for the system components.

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Current as of 23 January 1980

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Washington, DC, 8 December 1980

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

FOR

SWEEP SIGNAL GENERATOR
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Current as of 23 January 1660

REPORTING OF 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 Actitity, ATTN: SELEM-ME-E, Vint Hill Farms Station, Warrenton, Virginia 22186. A reply will be furnished to you.

LIST OF ILLUSTRATIONS

LIST OF TABLES

SAFETY SUMMARY

The following are general precautions that are not related to any specific procedures 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 precautions. Do not replace components or make adjustments inside the equipment with the high voltage supply turned on. Under certain conditions, dangerous potentials may exist when the power control is in the off position, due to charges retained by capacitors. To avoid casualties, always remove power and dicharge and ground a circuit before touching it.

DO NOT SERVICE OR ADJUST ALONE

Under no circumstances should any person reach into or enter the enclosure for the purpose of servicing or adjusting the equipment except in the presence of someone who is capable of rendering aid.

RESUSCITATION

Personnel working near or with high voltages should be familiar with modern methods of resuscitation.

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

WARNING

The fumes of trichloroethane are toxic. Provide adequate ventilation whenever it is used. DO NOT USE NEAR HEAT OR OPEN FLAME. Trichloroethane is not flammable, but exposure of the fumes to an open flame or hot metal forms highly toxic phosgene gas. (Pages 2.2, 24)

WARNING

Be extremely careful when performing troubleshooting procedures; dangerous voltages are present in the equipment. (Pages 24, 4-1)

WARNING

Always secure the connector cap onto the front panel power connector before applying 115 Vac to the alternate power connector located at the rear of the generator assembly. (Page 4-20)

WARNING

Dangerous potentials up to 200 Vdc are present at exposed terminals and wiring within the sweep generator chassis. Exercise extreme caution when working inside this chassis. (Page 4-20)

CAUTION

Do not paint labels, knobs, or interior of Sweep Signal Generator. (Page 2-5)

CAUTION

This equipment is transistorized. When measuring voltages, use tape or sleeving to insulate the entire test probe, except for the extreme of the tip. A momentary short can ruin a transistor. (Page 4-1)

CAUTION

Before using any multimeter to make resistance measurements, be sure power is off. (Page 4-1)

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1 SCOPE. This manual provides organizational, direct support, and general support instructions for the installation and maitenance of Sweep Signal Generator SG-677/U (figure 1-1). A repair parts and special tools 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 sweep generator 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. For calibration refer to DMWR 32-6625-022.

1-6 REPORTING EQUIPMENT IMPROVEMENT RECCOMMENDATIONS (EIR's). If your sweep generator 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 DESCRIPTION.

a. The sweep generator (figure 1-1) is a solid state electronic sweep generator used to test rind/or align complex electronic circuitry. It provides a radio frequency (RF) output signal of 500 kHz to 1200 MHz, which may be used as a continuous wave (CW) source, swept manually or automatically. The sweep generator is enclosed in a combination utility/transit cabinet for normal service use but, if desired, may be removed from its cabinet and mounted in a standard rack-and-panel configuration. The internal power cord connecting the front and rear connectors is shielded to prevent RF radiation into the power line. RF shields are installed around the front opening of the case, under the high-badn oscillator covers and the video amplifier cover, to reduce RF interference. The cabinet is equipped with guide rails and locating pins to facilitate installation of the generator. Slip hinges allow the cabinet cover to be easily removed. Provisions are made for storing the power cord with the cabinet cover.

b. The sweep Generator is constructed of aluminum and reinforced where necessary to provide adequate structural strength. Two time-wire 115 Vac 60 Hz or 400 Hz power connectors are furnished: one at the front panel for bench and normal service use and one at the rear of the sweep generator assembly for use when the assembly is rack-mounted or removed from the combination case for servicing.

1-8 TABULATED DATA.

Center frequency range	Continuously variable from 500 kHz to 1200 MHz in two ranges.
Range (VHF)	Continuously variable from 500 kHz to 300 MHz.
Range (UHF)	Continuously variable from 300 MHz to 1200 MHz.
Sweep width (narrow)	Continuously variable from 10 kHz to 1 MHz.
Sweep width (wide)	Continuously variable from 500 kHz to 400 MHz.
RF output voltage	At least 0.5 V rms into a 50 ohm resistive load.
RF output voltage variation (VHF)	Not more than ±0.25 dB at maximum sweep width.

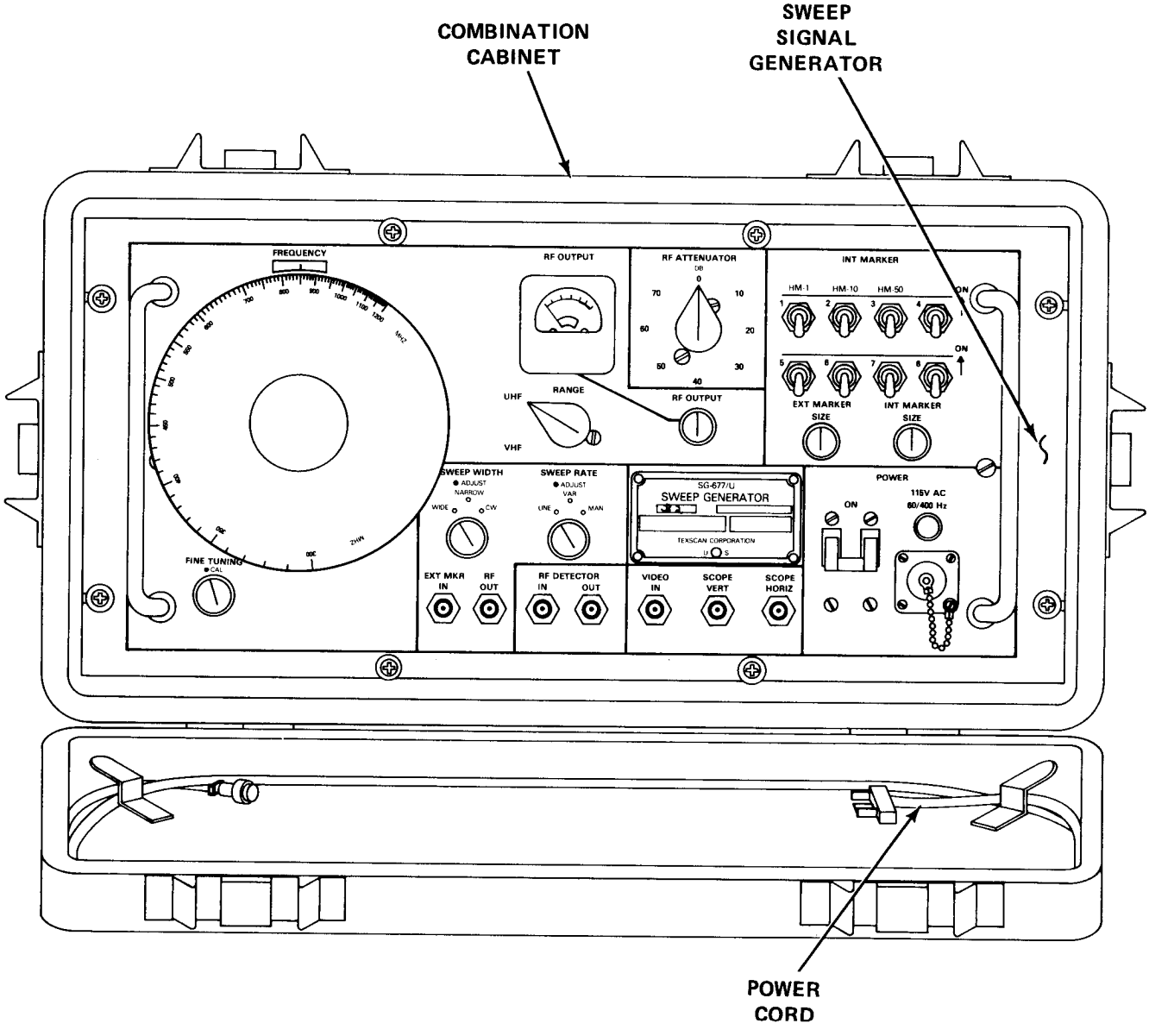


Figure 1-1. Sweep Signal Generator SG-677/U

RF output voltage variation (UHF)	Not more than ±0.5 dB at maximum sweep width.
Spurious beats and harmonics	At least 25 dB below the fundamental frequency.
Source impedance	Operates into a 50 ohm load (nominal).
Source VSWR	Not greater than 1.5 when properly terminated at any design frequency.
Sweep linearity	Within ±5 percent of the sweep width.
Sweep rate (line)	At the power line frequency.
Sweep rate (variable)	Continuously variable from 5 to 60 Hz.
Sweep rate (manual)	Manaul control of sweep rate.
Horizontal output voyage.	Variable from 0 to 18 volts peak-to-peak, ±1.8 Vdc, at either extreme and at the sweep frequency.
Frquency dial accuracy	±1 dial division (±10 MHz).
RF output meter accuracy	±3 percent.
Internal frequency marker accuracy	±0.01 percent at 1 MHz.
Attenuation	0 dB to 70 dB in 10 dB steps, ±2 dB, at any design frequency. RF output control provides a vernier over a 10 dB range.
Internal detector VSW-R	No greater than 1.2 at any design frequency when terminated in a 50 ohm load.
Internal detector efficiency	At least 75 percent at any design frequency.
Internal detector frequency response	Within ±0.5 dB on the VHF range and within ±1 dB on the UHF range.
Power consumption	Approximately 33 watts.
Input power	115 ±11.5 Vat, single phase, 60 ±10 Hz or 400 ±20 Hz.
Overall dimensions	12-1/2 inches high. 22 inches wide. 18-1/2 inches deep.
Weight	Approximately 51 pounds.
Cubage	Approximately 2.95 cubic feet.
+200 Vdc regulation	Within ±1.2 volts. (90-140 Vac)
+30 -30 Vdc regulation	Within ±0.001 volt. (90-140 Vac)

CHAPTER 2

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. TOOLS AND EQUIPMENT

2-1 TOOLS AND EQUIPMENT. The tools and test equip ment required and authorized for organizational maintenance are listed in the Maintenance Allocation Chart (MAC), Appendix B. No special tools or equipment are alloted by the Repair Parts and Special Tools List in Appendix C.

2-2 MATERIALS. The materials required and authorized for organizational maintenance are listed in table 2-1.

Table 2-1. Organizational Maintenance Materials Required

NSN	Item	Use
7920-00-356-4694	Bristle brush	Remove corrosion and other foreign matter from metal parts.
8305-222-2423	Lint-free cheesecloth	Clean metal parts.
6810-00-664-0387	Trichloroethane	Clean metal parts.

Setion II. REPAINTING AND REFINISHING INSTRUCTIONS

CAUTION

Do not paint labels, knobs, or interior of sweep generator.

2-3 SURFACE PREPARATION. Remove all rust and corrosion from metal surfaces. For applicable cleaning and repainting practices, refer to TB 43-0118, Field Instructions for Painting and Preserving Electronics Command Equipment.

2-4 PAINT. For the paints and finishes to be used, refer to SB 11-573, Painting and Preservation Supplies Available for Field Use for Electronics Command Equipment, TM 43-0139, Painting Instructions for Field Use, provides instructions for the care of painting equipment.

Section III. LUBRICATION INSTRUCTIONS

2-5 LUBRICATION. No lubrication of the Sweep Signal Generator SG-677/U is required.

Section IV. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

2-6 GENERAL. The sweep generator must be systematically inspected to ensure that it is always ready for operation. Defects discovered during inspections can then be corrected before serious damage or failure results. The necessary preventive maintenance checks and services to be performed are listed in table 2-2. The item numbers indicate the sequence of minimum inspection requirements. Note defects discovered during operation of the unit. Make corrections as soon as operation has ceased. Stop operation immediately if a deficiency which would damage the equipment is noted during operation. Record all deficiencies, together with the corrective action taken, on forms and records specified in TM 38-750.

2-7 PREVENTIVE MAINTENANCE PROCEDURES. Table 2-2 lists procedures for the performance of maintenance inspections and services. The table provides the sequence of, and time intervals for, maintenance actions which are the responsibility of organizational level personnel. 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, in recording results of PMCS. Refer any trouble that is beyond the scope of organizational maintenance to the direct and general support maintenance level.

WARNING

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

Table 2-2. Organizational Preventive Maintenance Checks and Services

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		•							CONNECTORS, KNOBS, AND PRINTED CIRCUIT BOARDS (PCB)	Inspect all connectors, knobs, and PCB'S. Tighten all loose connectors, knobs, and reseat all loose PCB'S.	
2		•							EQUIPMENT HARDWARE	Tighten all loose bolts, nuts, screws, and clamps that secure equipment. Replace any missing hardware.	
3		•							EQUIPMENT PERFORMANCE	Check out operation of all functions, controls, and indicators.	Equipment does not perform properly or if any control or indicator is found to be defective.
*4		•							INTERIOR	Remove any accumulated dust, dirt, oil and grease.	
5			•						PUBLICATIONS	See that all publications are complete, serviceable, and current.	
6			•						MODIFICATIONS	Determine whether new applicable MWOs have been published. All urgent MWOs must be applied immediately. All normal MWOs must be scheduled.	Urgent MWOs have not been applied.
7			•						CALIBRATION	Determine whether calibration is up to date.	Equipment is found to be out of calibration.

*Cleaning of sweep signal generator may be required more frequently when it is operated under unusual conditions.

Section V. TROUBLESHOOTING

2-8 GENERAL. Troubleshooting at the organizational level is limited to interconnection of circuit boards, primary power, and equipment under test. Any trouble that is beyond the scope of organizational maintenance will be referred to a higher level of maintenance.

WARNING

Be extremely careful when performing troubleshooting procedures; dangerous voltages are present in the equipment.

Table 2-3. Organizational Troubleshooting Chart

MALFUNCTION TEST OR INSPECTION	CORRECTIVE ACTION
1. EQUIPMENT DOES NOT OPERATE.	
Step 1. Check power cable for proper connection to equipment and power source.	Make connections where necessary.
2. EQUIPMENT DOES NOT FUNCTION PROPERLY.	
Step 1. Check equipment test setup for proper connections.	Make connections where necessary.
Step 2. Check for loose or unseated circuit boards.	Reseat circuit boards tightly in circuit board assembly.
Step 3. Check for any burned or broken components.	Refer to higher level of maintenance.
3. POWER INDICATOR LAMP DOES NOT LIGHT.	
Step 1. Check indicator bulb.	Replace bulb.

Section VI. MAINTENANCE OF SWEEP SIGNAL GENERATOR SG-677/U

2-9 CLEANING.

WARNING

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

a. Use a dry, clean, lint-free cloth or brush to remove dust and dirt.

b. Moisten cloth or brush with trichloroethane to remove oil and grease.

c. Wipe dry with a lint-free, dry cloth.

2-10 REMOVAL AND REPLACEMENT OF PRINTED CIRCUIT BOARDS (PCB). For removal and replacement of PCB, refer to figure 2-1.

a. Insert index finger into finger hole and pull up. PCB will slide out of PCB chassis subassembly.

b. Replace PCB by inserting into PCB guides. Push down firmly to be sure PCB is properly seated.

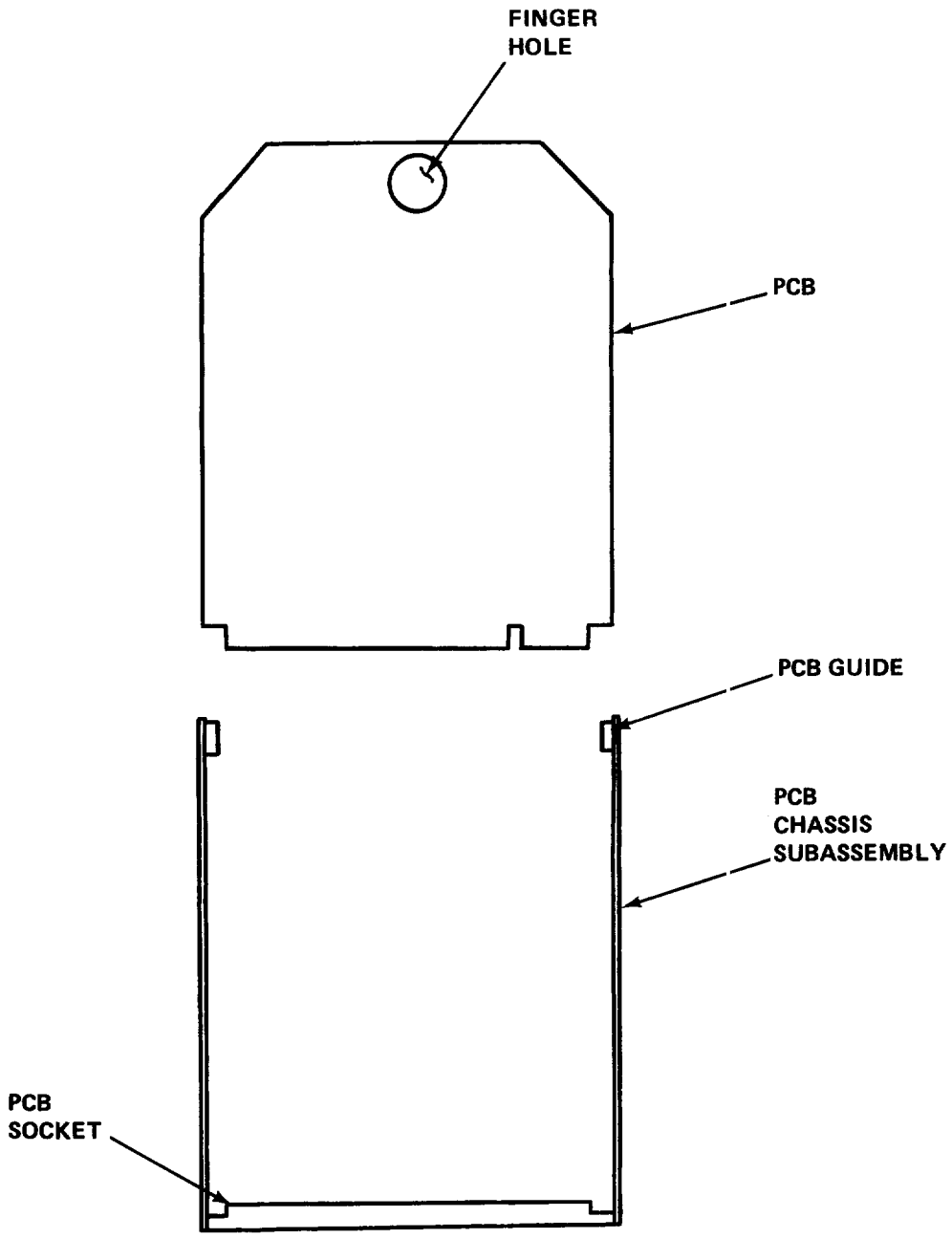


Figure 2-1. Removal and Replacement of PCB

CHAPTER 3

FUNCTIONING OF EQUIPMENT

3-1 GENERAL. The following paragraphs provide a functional description of the electronic functions of the major elements of Sweep Signal Generator SG-677/U. Refer to the Functional Block Diagram shown in figure 3-1.

3-2 SWEEP RATE. The sweep rate stage provides triangular and square wave outputs as required for operation by the vertical blanking, horizontal, and sweep drive stages. This maintains synchronization of the sweep generator. There are three modes of operation, LINE, MANUAL, and VARIABLE. They are achieved by changing the operating characteristics of a Schmidt trigger and Miller integrator by means of the SWEEP RATE switch. In the LINE mode a line frequency signal from the primary power is coupled to the input of the Schmidt trigger. This signal synchronizes the sweep generator to the line frequency. In the MANUAL mode the SWEEP rate stage is bypasses, and a dc voltage controlled by the SWEEP RATE ADJUST is present at the output. In the VARIABLE mode a time constant controlled by the SWEEP RATE ADJUST provides a 5 Hz to 60 Hz signal at the input to the Schmidt trigger allowing for variable synchronization.

3-3 SWEEP DRIVE. The sweep drive stage provides a non-linear drive signal which is used as the control voltage for the UHF oscillator varactor CR 502. A linear and a non-linear amplifier operate from a drive signal supplied by the sweep rate stage. A diode break circuit reshapes the drive signal supplied at the collector of the non-linear amplifier. When the diodes are reverse biased, the circuit has a linear charateristic; but as the voltage on the collector increases, each of the diodes conducts in consecutive order; and the resultant waveform is reshaped. This reshaped waveform, together with the amplified linear drive signal, is coupled to the SWEEP WIDTH switch and potentiometer combination. The two signals are combined and serve to maintain sweep linearity as the sweep width is reduced. The resultant drive signal is applied to the UHF oscillator varactor CR 502.

3-4 FINE TUNING. The front panel FINE TUNING control provides a fine adjustment to the frequency dial setting when the SWEEP WIDTH control is in the NAR or CW mode. Adjustment of the FINE TUNING control varies the dc voltage at the base of an emitter follower which provides a low impedance source for the output signal. This signal is coupled to the SWEEP WIDTH control.

3-5 UHF OSCILLATOR. The UHF oscillator is a tuned line, varactor swept oscillator. The oscillator is tunable over a frequency range of 300 MHz to 1200 MHz. The sweep drive voltage for the oscillator is coupled to varactor CR 502, which changes the electrical length of the tuned line, thereby changing the oscillator's output frequency. When the sweep generator is used in the UHF range, this output is fed directly to the monitor stage. When the VHF range is desired, a 700 MHz to 1000 MHz signal from the oscillator is fed to the VHF circuitry before being coupled to the monitor stage.

3-6 VHF CIRCUITRY. The VHF frequency range is generated by sweeping the UHF oscillator from 700 MHz to 1000 MHz and heterodyning this swept frequency with the 700 MHz Continuous Wave (CW) oscillator frequency. The difference frequency is then amplified by the video amplifier before being coupled to the monitor stage.

a. CW Oscillator. The CW oscillator is a tuned line oscillator and has a freed output frequency of 700 MHz.

b. VHF Mixer. The VHF mixer utilizes a diode bridge circuit arrangement with a low pass falter at the output.

c. *Video Amplifier.* The video amplifier has four similar gain stages. Each stage is of the common emitter configuration and the 0.5 to 300 MHz frequency response is accomplished primarily by large amounts of negative feedback in each stage.

3-7 MONITOR. The function of the monitor is the distribution of the RF sweep. The monitor contains a dividing network which channels the RF sweep to the RF attenuator and the sweep sample divider/EXT marker. The monitor also detects a portion of the RF signal, providing a dc voltage proportional to the RF signal amplitude. This voltage drives the RF output meter and is also used as feedback by the leveler stage.

3-8 LEVELER. The function of the leveler stage is to maintain a constant RF amplitude at the RF output connector. The leveler stage operates in a closed loop system consisting of the leveler stage, the device being leveled (either the UHF oscillator or the VHF video amplifiler), and the monitor. The monitor provides a dc voltage to one input of a differential amplifier. The other input receives the RF output command from the RF output control. If the RF amplitude starts to decrease, the feedback voltage from the monitor starts to decrease. Since the command from the RF output control does not change,

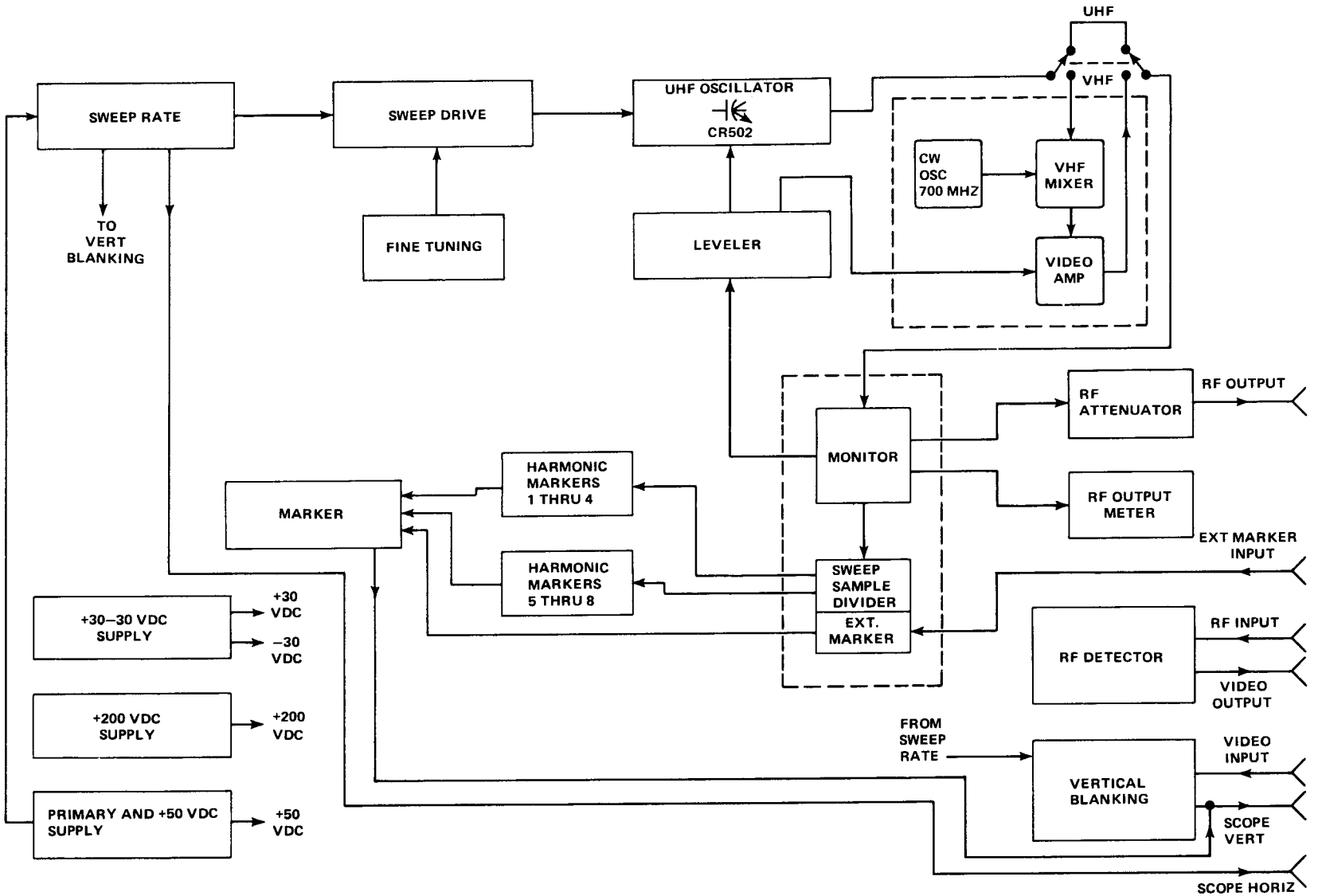


Figure 3-1. Functional Block Diagram

the output of the differential amplifier starts to change. This change will be in a direction that will prevent further change in the RF output amplitude.

3-9 RF ATTENUATOR CIRCUITRY. The RF attenuator switch is an eight position detent type using series double pipads for the 10 dB through 70 dB positions. Accuracy at higher frequencies is maintained by using precision resistors and mounting the components in a coaxial configuration in such a way that a 50 ohm characteristic impedance is maintained. The output of the RF attenuator is connected to the front panel RF OUT connector.

3-10 RF DETECTOR CIRCUITRY. The RF detector circuitry is provided to detect the RF output of the device under test. The RF detector utilizes a single video detector diode, in conjunction with precision 100 ohm resistors in parallel, to provide a 50 ohm load and adequate frequency response over the operating range.

3-11 VERTICAL BLANKING. The vertical blanking provides a zero volt reference trace when the detected RF signal is displayed on an oscilloscope. The square wave from the sweep rate stage is coupled to the gate of a Field Effect Transistor (FET). The FET then conducts during the retrace period to provide a zero volt reference on the scope trace. When the sweep generator is in the MAN and/or CW mode, the vertical blanking is rendered inoperative.

3-12 MARKER CIRCUITRY. The marker circuitry provides accurate frequency identification of the detected RF signal. It consists of sweep sample divider/EXT marker, harmonic markers, and marker stages. The sweep sample divider stage selects a portion of the swept RF signal which is coupled to, and mixed with, the harmonic markers. The resultant beat, or difference, is referred to as “birdy” markers. The “birdy” markers produced by mixing are amplified by the marker stage and are then superimposed upon the detected RF signal from the device under test. External marker signals are connected to the external marker mixer stage through the front power EXT MKR IN connector as the other input. The resultant external “birdy” marker is coupled through EXT MKR SIZE control, amplified by the marker stage, and superimposed upon the detected RF signal from the device under test.

3-13 POWER SUPPLY. The power supply provides all voltages required by the internal circuits of the sweep generator and requires 115 Vat, single phase, 60 or 400 Hz for operation. The power supply also provides a line frequency signal for synchronization of the sweep generator in the LINE mode. In model B (serial number 475 and above) a 15 ohm 2 watt resistor is placed in line with the supplied 115 Vat.

CHAPTER 4

DIRECT AND GENERAL SUPPORT MAINTENANCE

Section I. GENERAL

4-1 SCOPE OF MAINTENANCE. This chapter contains voltage and waveform measurement data; troubleshooting instructions; directions for removal, repair, and replacement or installation of components; and electrical test procedures for Sweep Signal Generator SG-677/U. Section I contains a voltage test point table and waveform diagrams. The took and test equipment required for direct and general support maintenance are listed in Section II. Troubleshooting procedures are included in Section III; Section IV contains instructions for performing the corrective maintenance indicated by the results of troubleshooting. Setion V conatins procedures that establish acceptable performance standards for the sweep generator.

4-2 WAVEFORM DIAGRAMS AND VOLTAGE MEASUREMENTS

a . Purpose and Use. Waveform diagrams are used to localize malfuction to a particular function, module, or single stahe of a complex circuit. Voltage measurements can then be used to isolate a fault to a defective circuit element. Figure 4-1 cotains a set of waveforms. Table 4-1 is a list of vlotage test points. All test points and equipment conditions are listed.

b. Initial Settings. Set all controls on sweep generator as follows (refer to figure 1-1):

(1) POWER	ON
(2) SWEEP RATE	VAR
(3) SWEEP WIDTH	WIDE
(4) RANGE	UHF
(5) RF POWER	0.5 VRMS
(6) RF ATTENUATOR	0 DB
(7) INT MARKER	ON
(8) INT MARKER SIZE	MID RANGE
(9) EXT MARKER SIZE	MID RANGE
(10) FREQUENCY	1000 MHz
(11) FINE TUNING	1000 MHz

WARNING

Be extremely careful when performing troubleshooting procedures; dangerous voltages are present in the equipment.

CAUTION

This equipment is transistorized. When measuring voltages, use tape or sleeving to insulate the entire test probe, with the exception of the extreme of the tip. A momentary short can ruin a transistor.

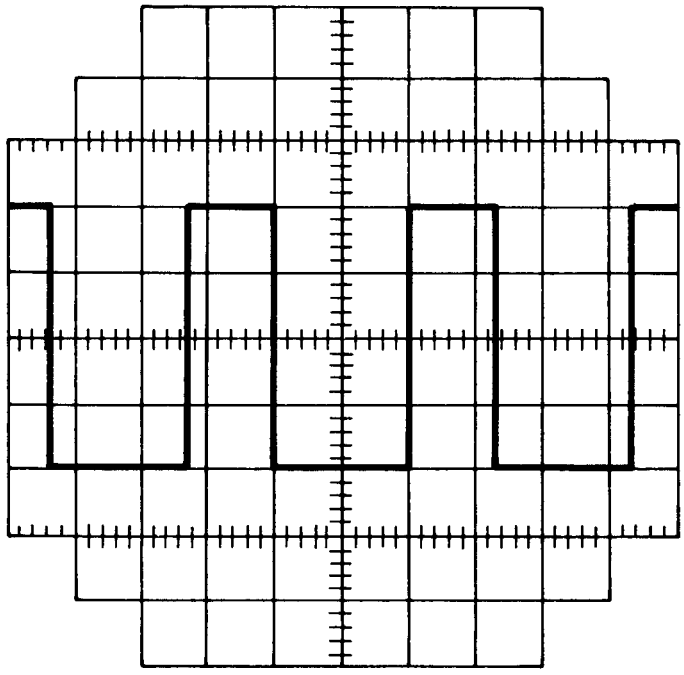
CAUTION

Before using any multimeter to make resistance measurements, be sure power is off.

Table 4-1. Voltage Test Points

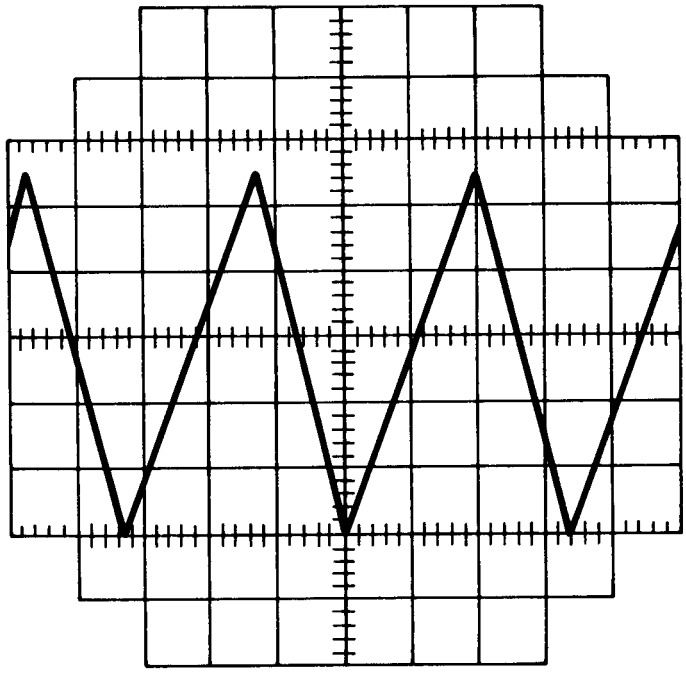
Test point	Normal condition	Test point	Normal condition
TP 1	+36 Vdc	TP 9	+205 Vdc
TP2	+36 Vdc	TF 10	+83 Vdc

TP 101
5V/cm
5ms/cm



TP 101

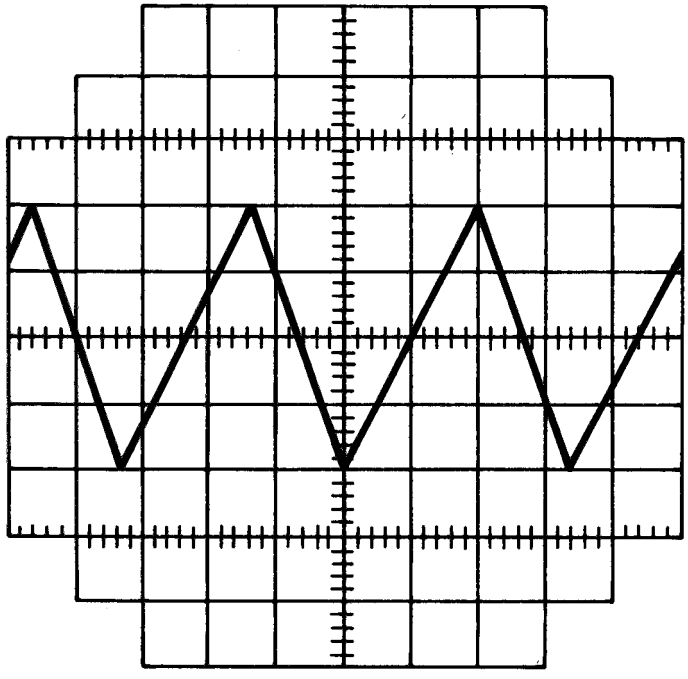
TP 102
2mV/cm
5ms/cm



TP 102

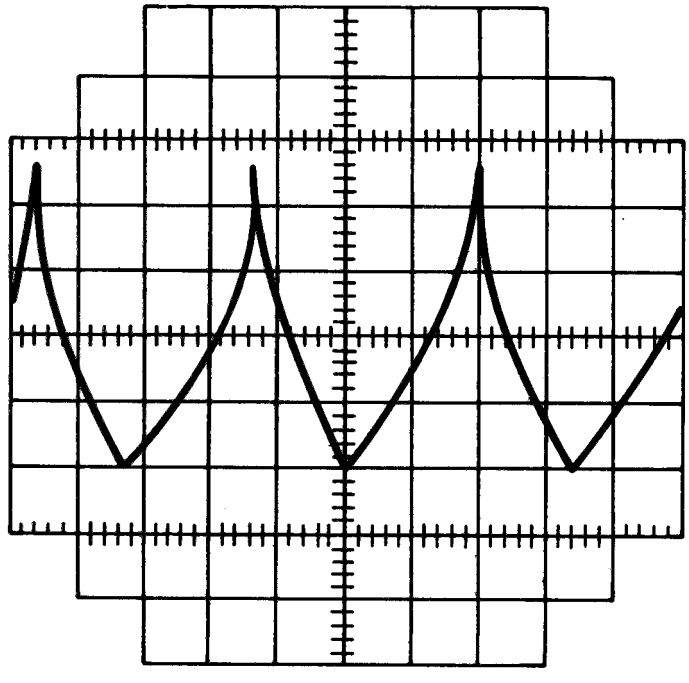
Figure 4-1. Waveform Diagrams (Sheet 1 of 4)

TP 103
5V/cm
5ms/cm



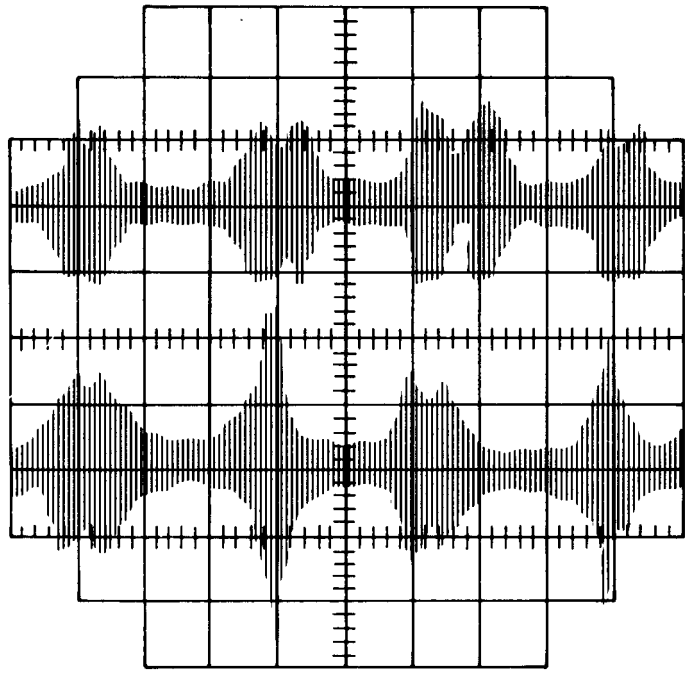
TP 103

TP 104
0.5V/cm
5ms/cm

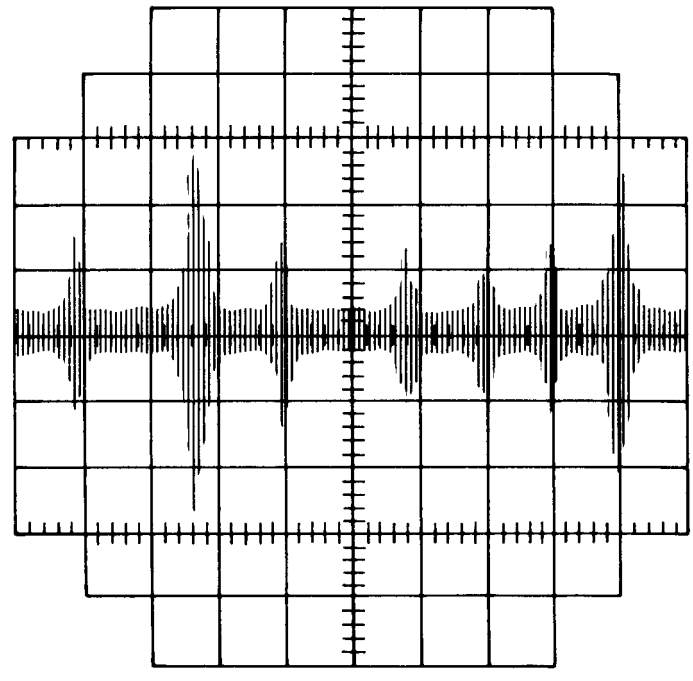


TP 104

Figure 4-1. Waveform Diagrams (Sheet 2 of 4)



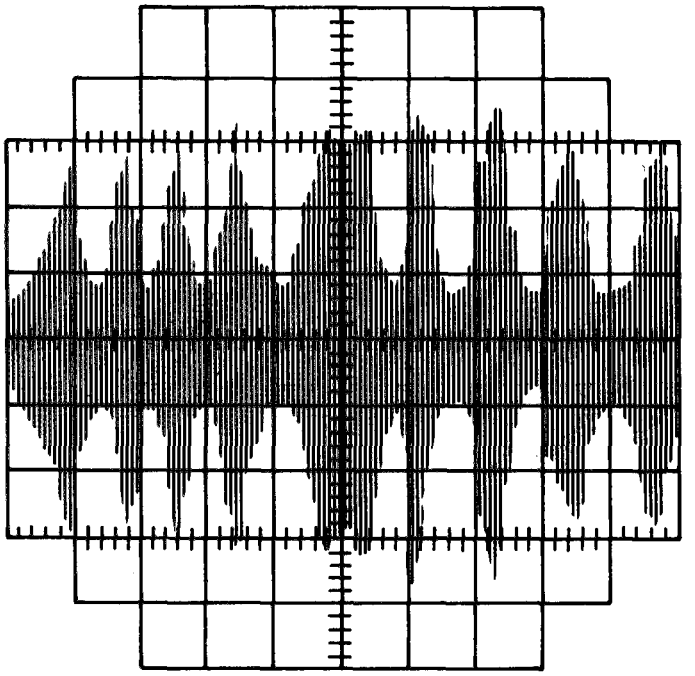
TP 301, 302, 303



TP 309

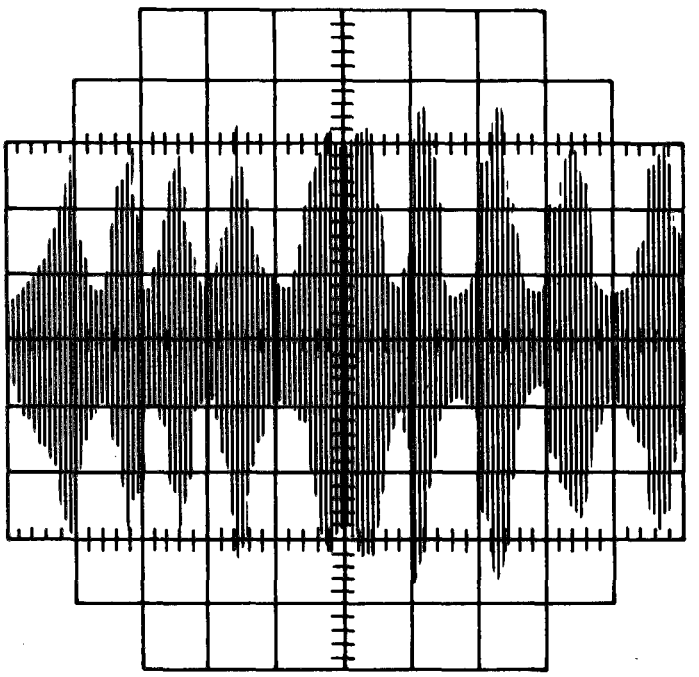
Figure 4-1. Waveform Diagrams (Sheet 3 of 4)

TP 310
50mV/cm
5ms/cm



TP 310

TP 311
1V/cm
5ms/cm



TP 311

Figure 4-1. Waveform Diagrams (Sheet 4 of 4)

Table 4-1. Voltage Test Points - Continued

Test point	Normal condition	Test point	Normal condition
TP 3	+30 ±1 Vdc	TP 11	+200 ± Vdc
TP 4	+6.7 Vdc	TP 12	+45 to +62 Vdc
TP 5	-32.5 Vdc	TP 401	+42 Vdc
TP 6	-34 Vdc	TP 402	-28 Vdc
TP 7	-30 ± 1 Vdc	TP 403	+0.8 Vdc
TP 8	-6.8 Vdc	TP 404	+0.85 Vdc

Section II. TOOLS AND EQUIPMENT

4-3 TOOLS AND EQUIPMENT.

a. General. Refer to Maintenance Allocation Chart, Appendix B, and Repair Parts and Special Tools List (RPSTL), Appendix C, as they pertain to direct and general support maintenance.

b. Tools and Test Equipment. The tools and test equipment required and authorized for direct and general support maintenance are listed in the Maintenance Allocation Chart (MAC), Appendix D. Uses of these items are listed in table 4-2 below.

Table 4-2. Direct and General Support Maintenance Tools and Test Equipment

NSN	Item	Use
5180-00-605-0079	Electronics Equipment Tool Kit TK-100/G	Perform direct and general support maintenance procedures.
5180-00-064-5178	Electronics Equipment Tool Kit TK-101 /G	
5180-00-957-0439	Electronics Equipment Tool Kit TK-105/G	
6625-00-999-7465	Multimeter AN/USM 223	Perform voltage and resistance measurements.
6625-00-553-4699	Oscilloscope	Display of waveforms during troubleshooting and alignment procedures.
	VTVM (50423) (#3006)	Perform voltage measurements.

Table 4-2. Direct and General Support Maintenance Tools and Test Equipment - Continued

NSN	Item	Use
	RF power meter type 6685 with adaptor type N685-2 (77327)	Adjustment of RF power output.
	RF coaxial cable, adaptors, junctions, etc.	Connect equipment for trouble-shooting and alignment procedures.
	RF coaxial cable assembly 50 OHM.	Interconnection.

Section III. TROUBLESHOOTING

4-4 TROUBLESHOOTING. Figure 4-2 is a set of functional troubleshooting flow charts containing some of the more common problems. They are to be used as a general guide in troublehshooting. Once a circuit or stage has been localized, transistor bias, supply voltages, and forward and revere resistance measurements can be used to determine the faulty component. Any trouble that is beyond the scope of Direct and General Support Maintenance shall be referred to a higher level of maintenance. Study the appropriate theory and related schematics before troubleshooting the equipment.

4-5 SCHEMATICS. Figures 4-3 and 4-4 show the location of the sweep generator subassemblies; figures 4-5 through 4-11 show the schematics of the various subassemblies. The main schematic diagram (FO-1) is located in the back of this manual.

4-6 COMPONENT LOCATION. For component location refer to Appendix C.

Section IV. MAINTENANCE OF SWEEP SIGNAL GENERATOR SG-677/U

4-7 SUBASSEMBLY REPLACEMENT. When any of the subassenblies listed below malfunction, they will be replaced, in their entirety, and no attempt will be made to repair them.

a. UHF Oscillator Subassembly.
b. UHF/VHF Range Switch.
c. VHF Subassembly.
d. Motitor/Mixer Subassembly.
e. RF Attenuator.
f. Frequency Markers.
g. RF Detector.

4-8 SUBASSEMBLY REPAIR. When any other subassembly or component malfunctions, it may be repaired or replaced at this level of maintenance. Exercise normal precautionary measures to prevent damage to printed circuitry, heat sensitive components, etc. Also exercise care in physically orienting the plug-in printed circuit boards, diodes, transistors, and polarized capacitors. For parts location refer to Appendix C.

4-9 ADJUSTMENT. Adjustment of sweep generator should be performed when:

a. A repair or replacement of a subassembly has been performed and can be used to determine its serviceability.
b. Six months have elapsed since the last adjustment.

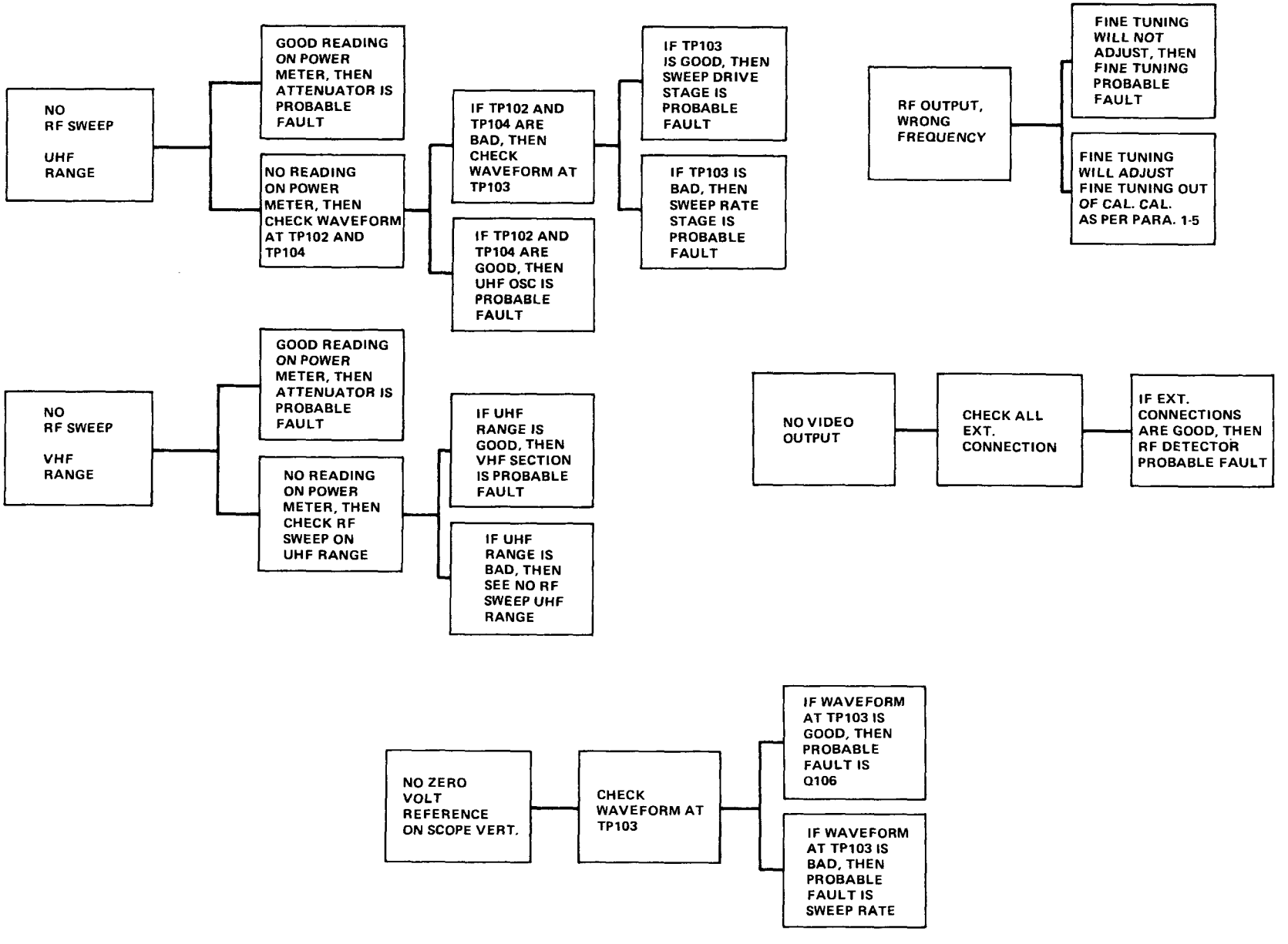


Figure 4-2. Troubleshooting Flow Chart (Sheet 1 of 3)

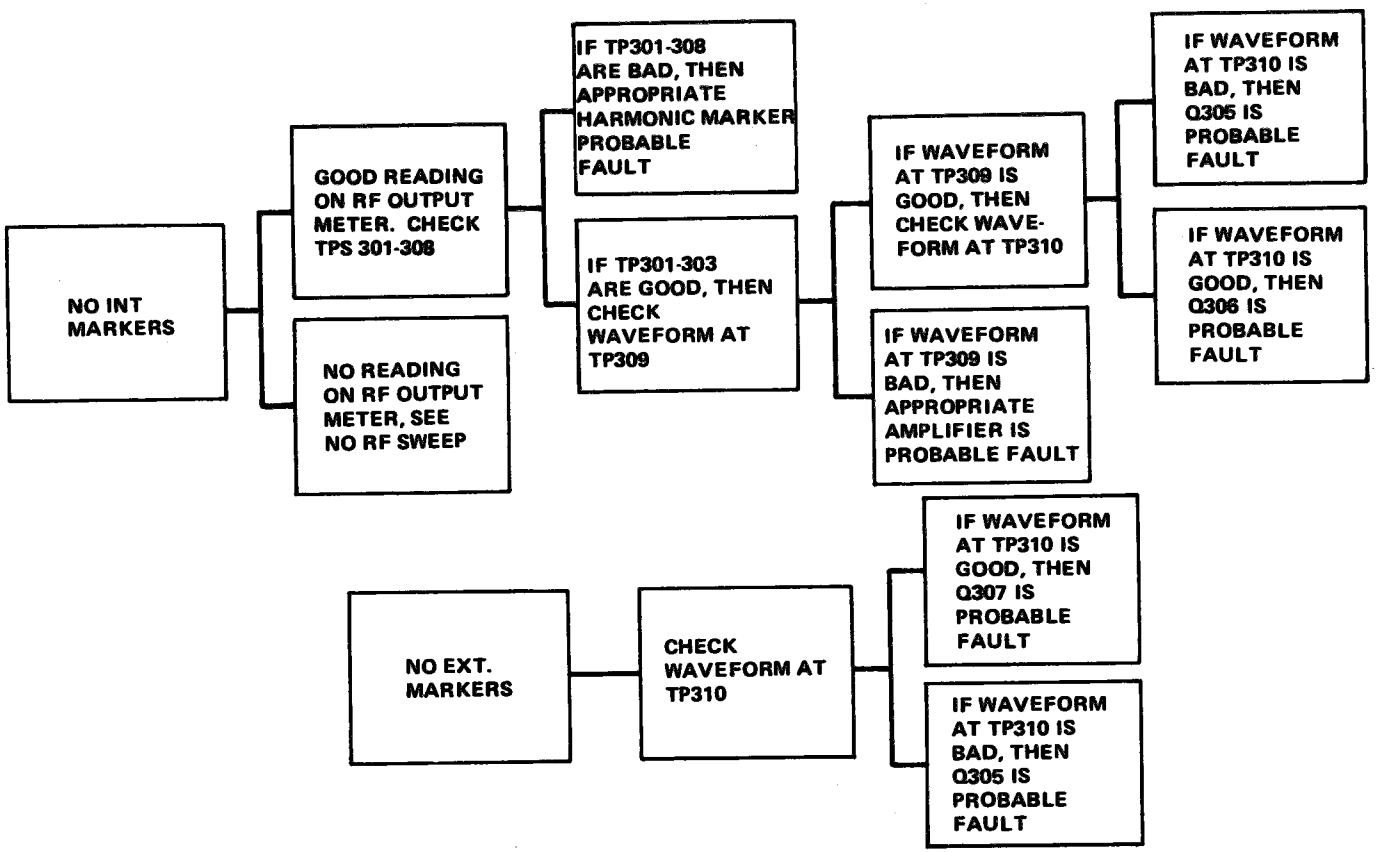


Figure 4-2. Troubleshooting Flow Chart (Sheet 2 of 3)

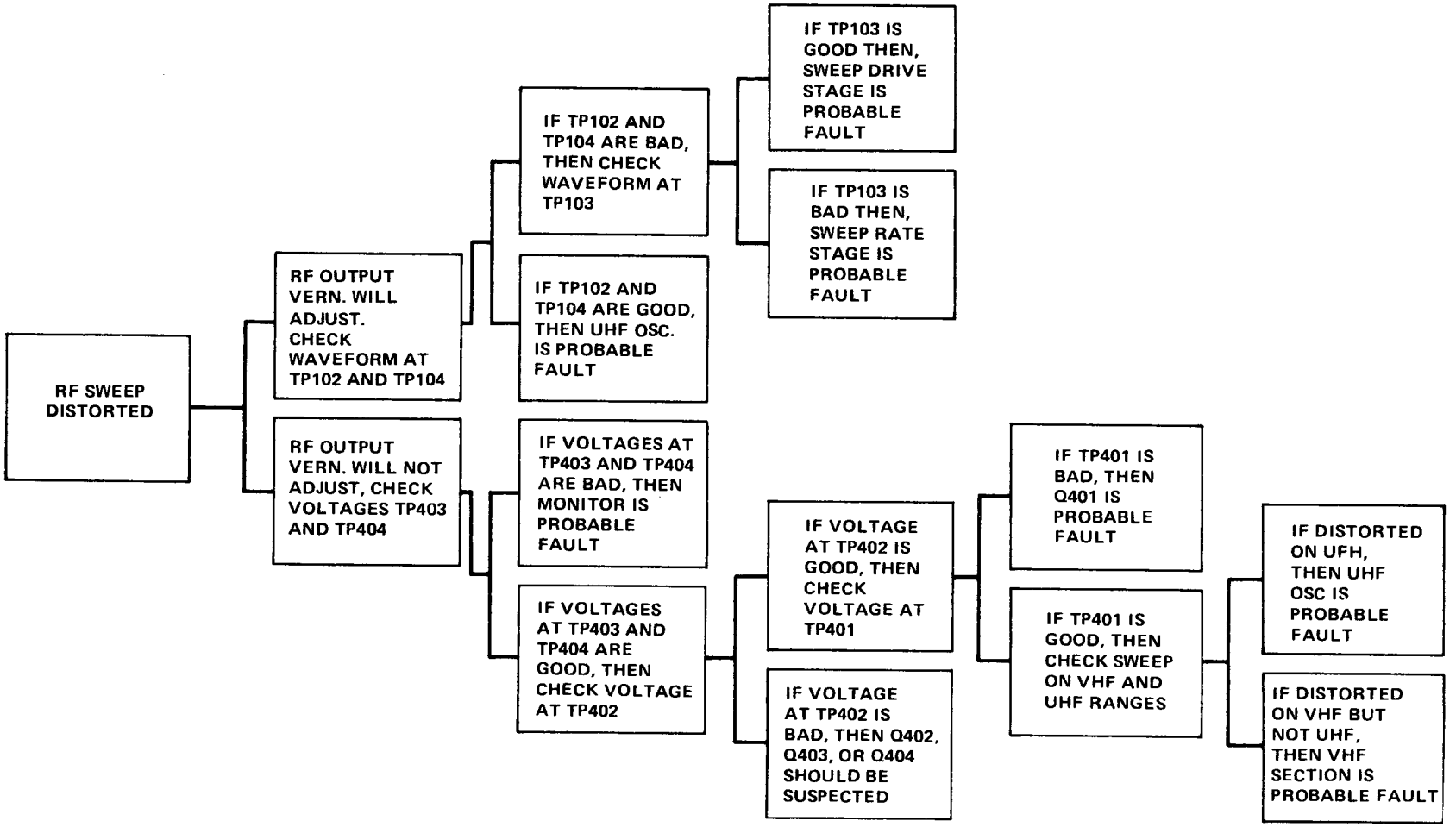


Figure 4-2. Troubleshooting Flow Chart (Sheet 3 of 3)

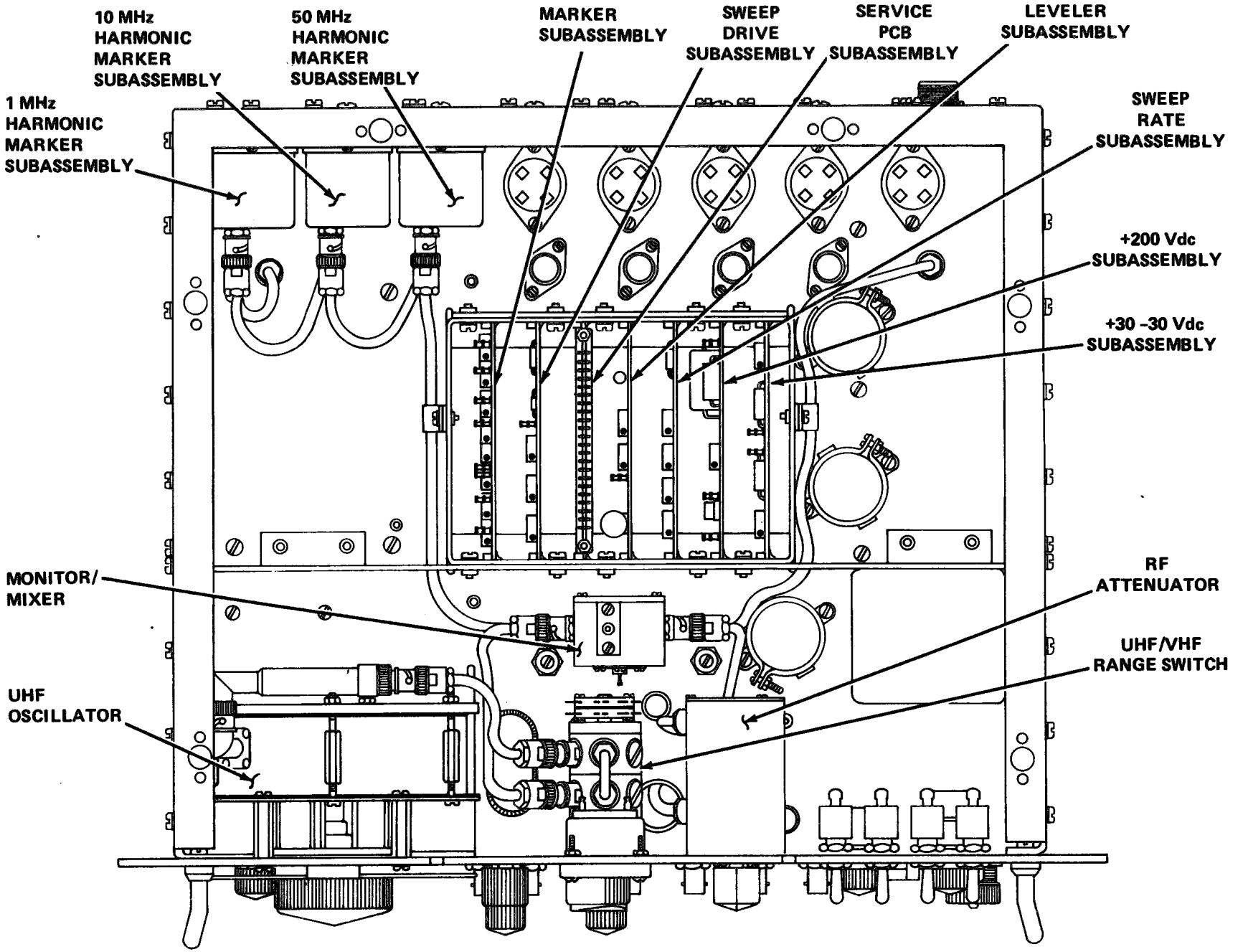


Figure 4-3. Sweep Signal Generator (Top View)

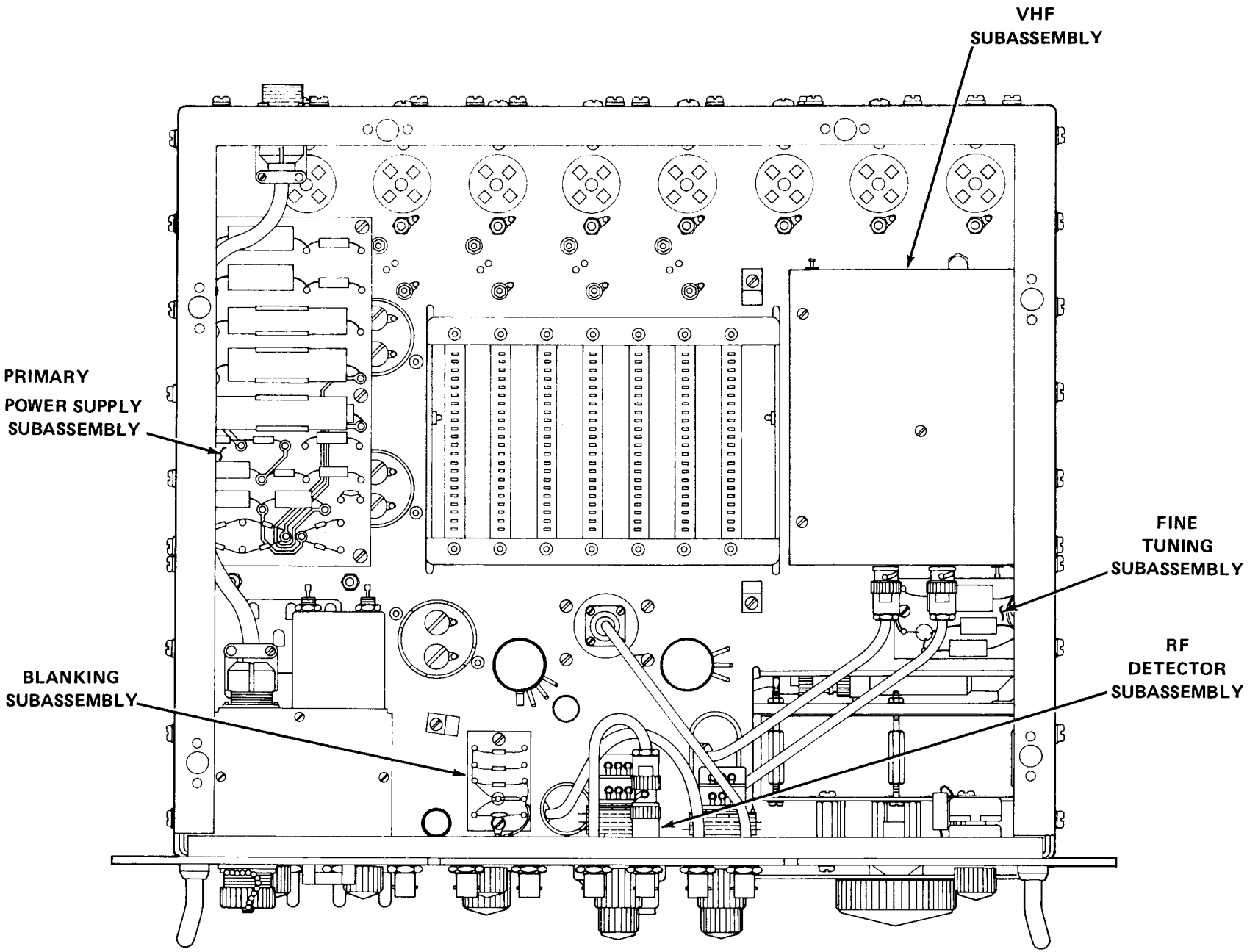


Figure 4-4. Sweep Signal Generator (Bottom View)

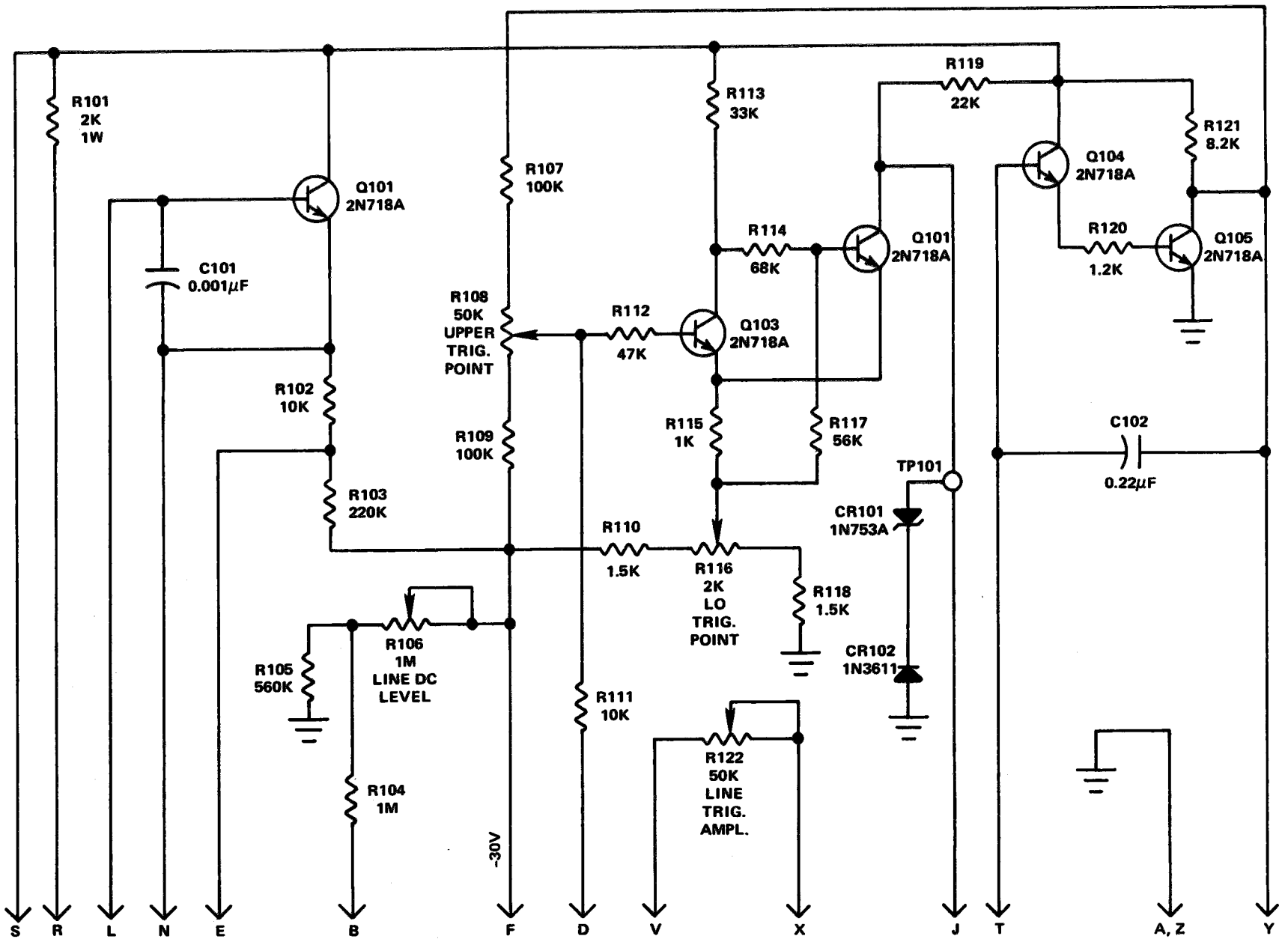


Figure 4-5. Sweep Rate Subassembly Schematic

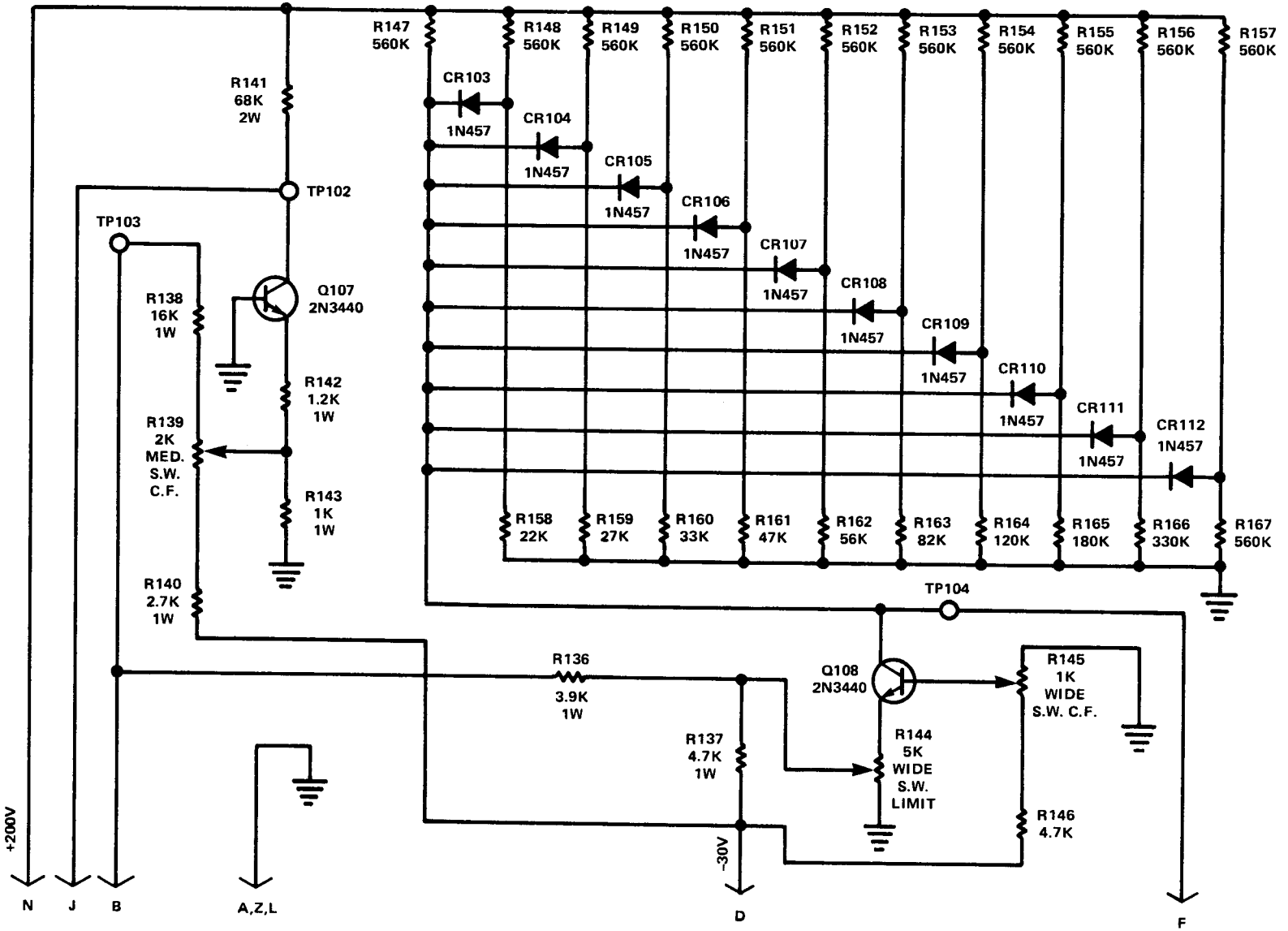


Figure 4-6. Sweep Drive Subassembly Schematic

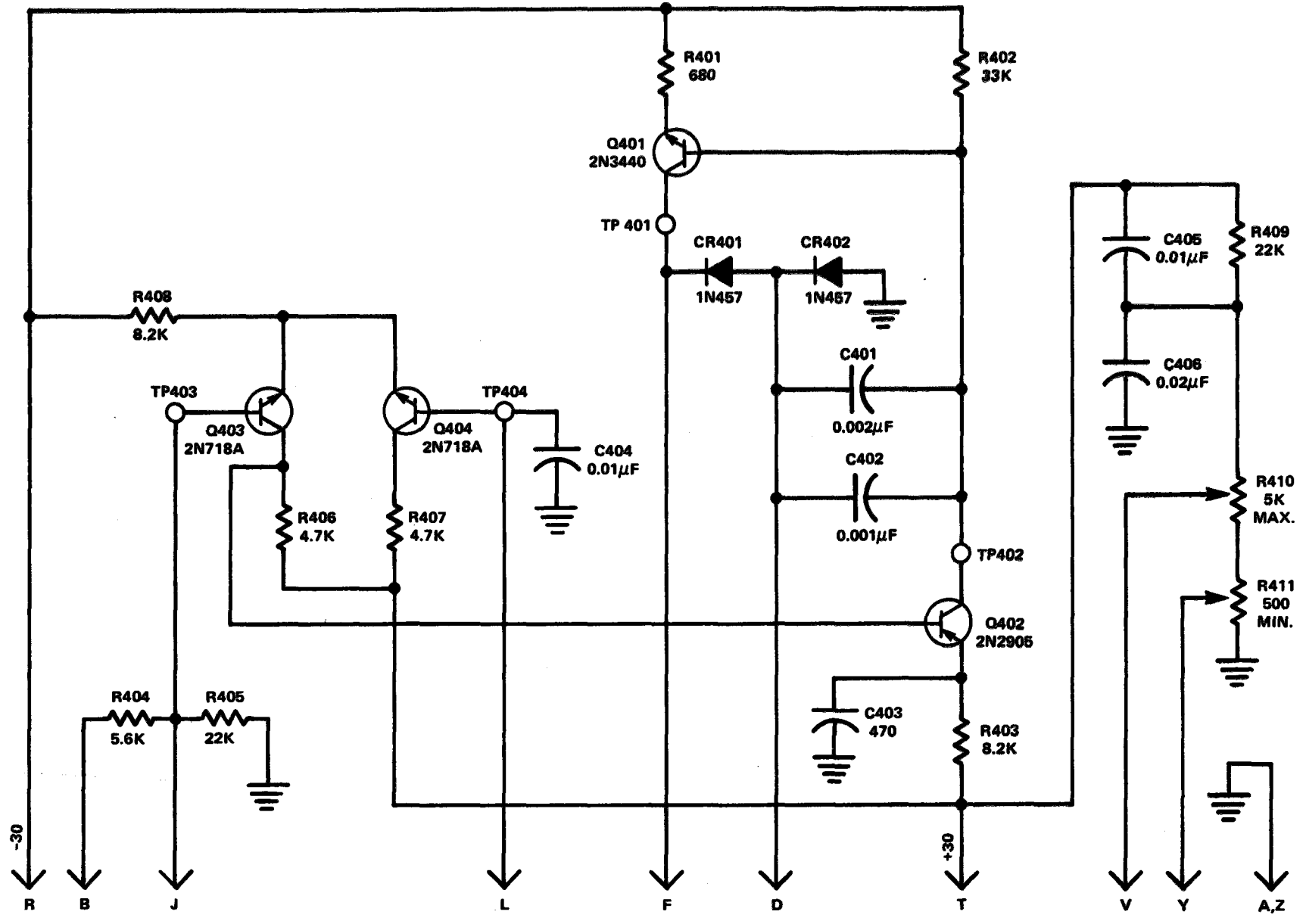


Figure 4-7. Leveler Subassembly Schematic

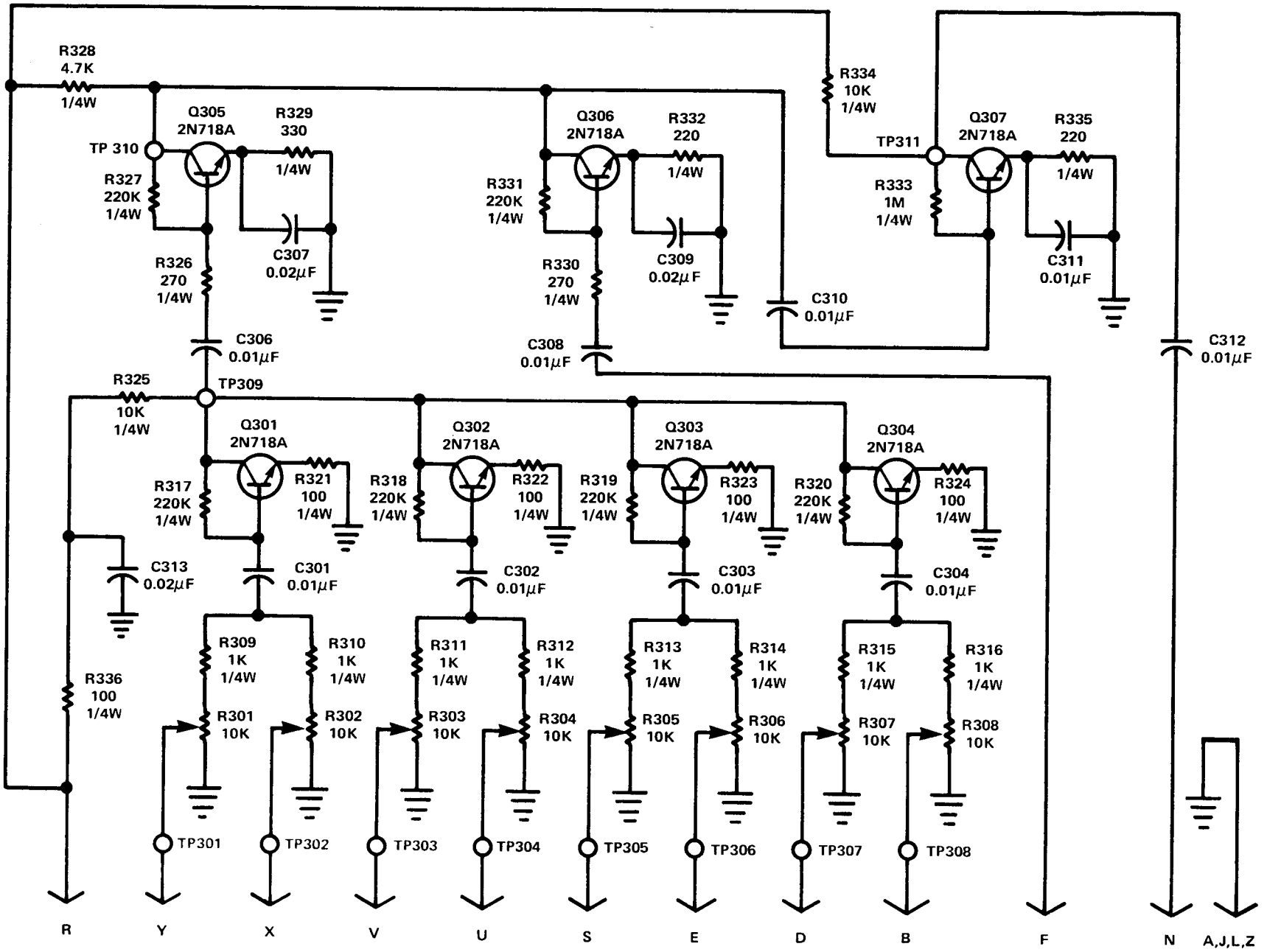


Figure 4-8. Marker Subassembly Schematic

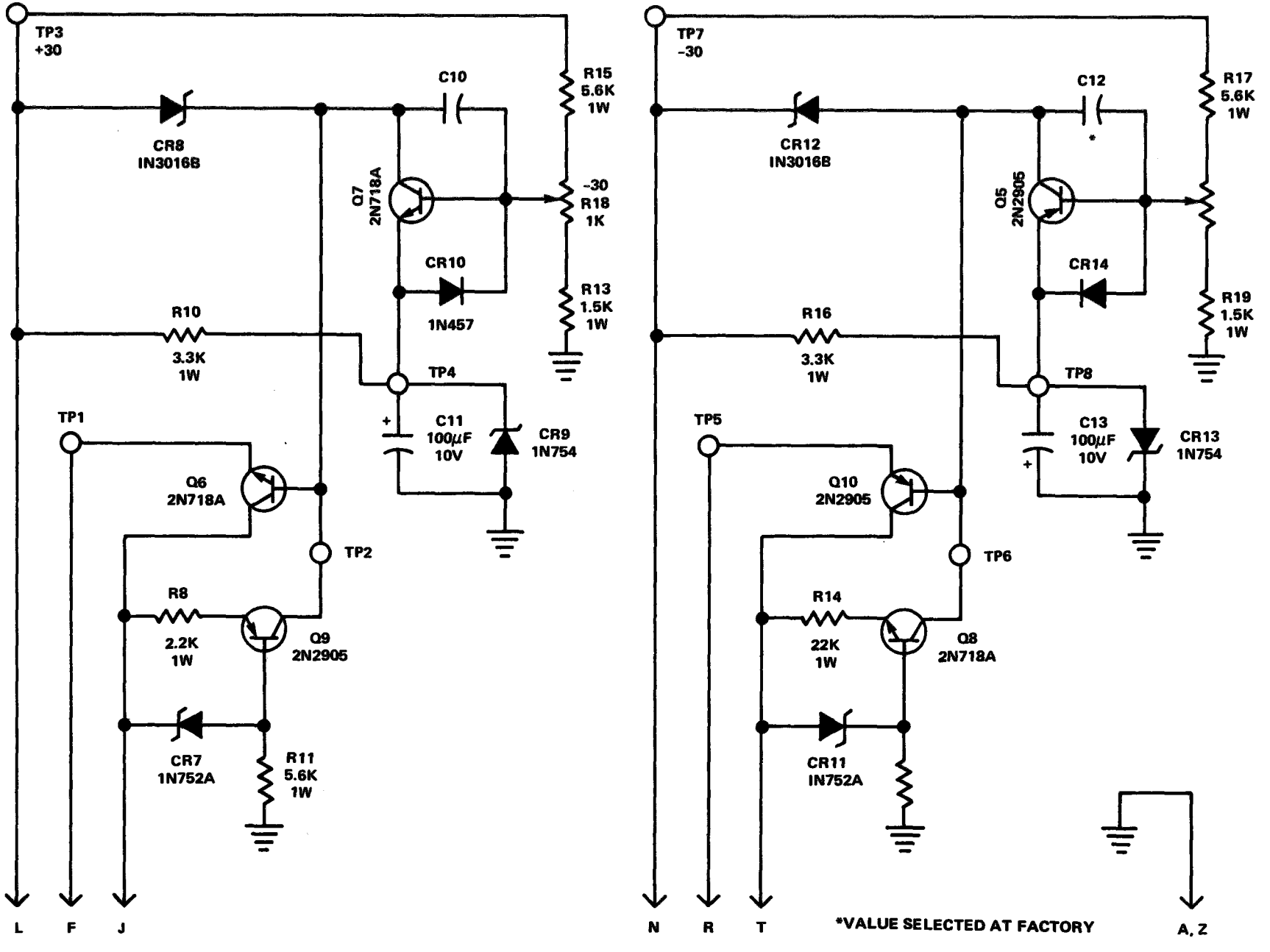


Figure 4-9. +30 -30 Vdc Supply Subassembly Schematic

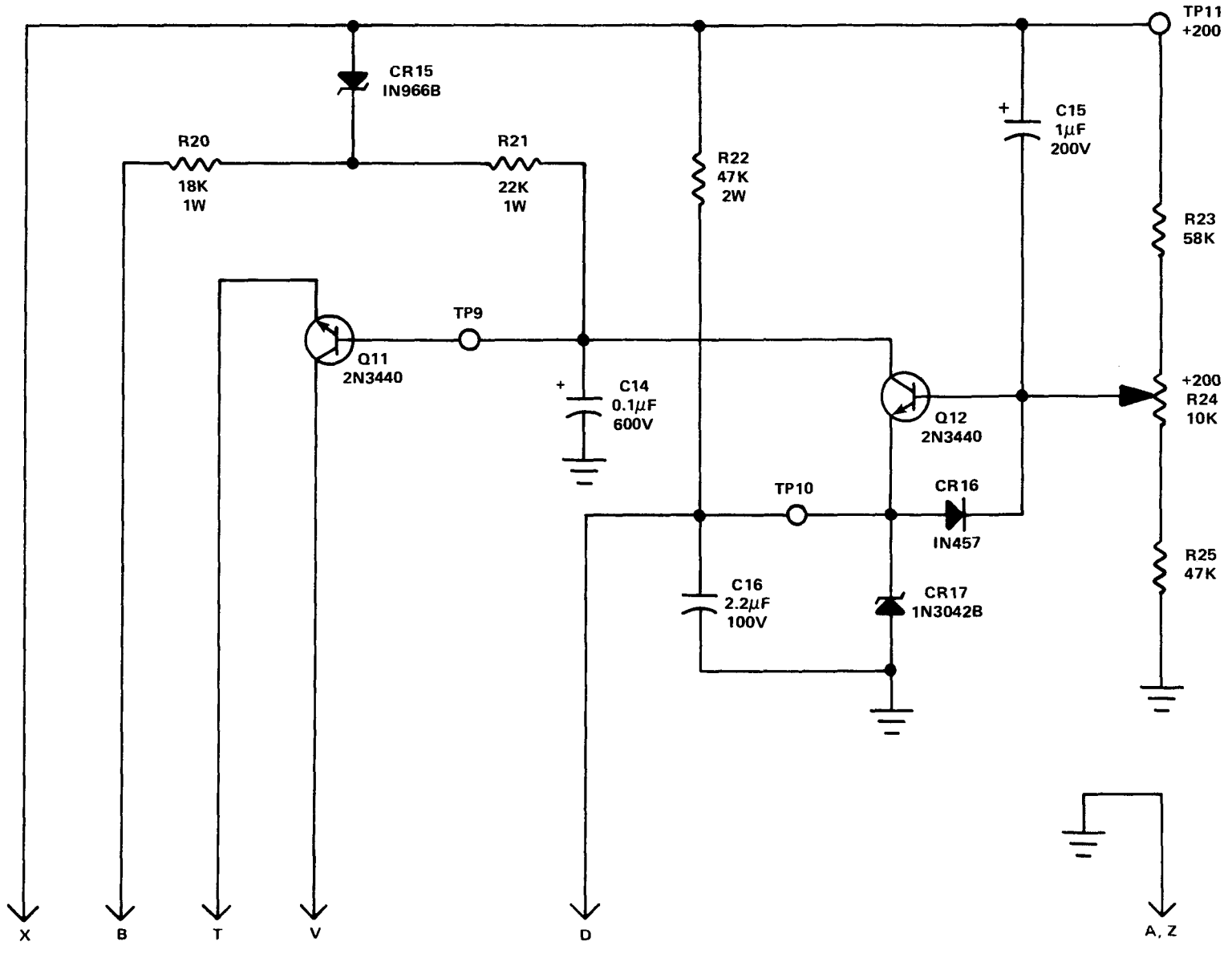
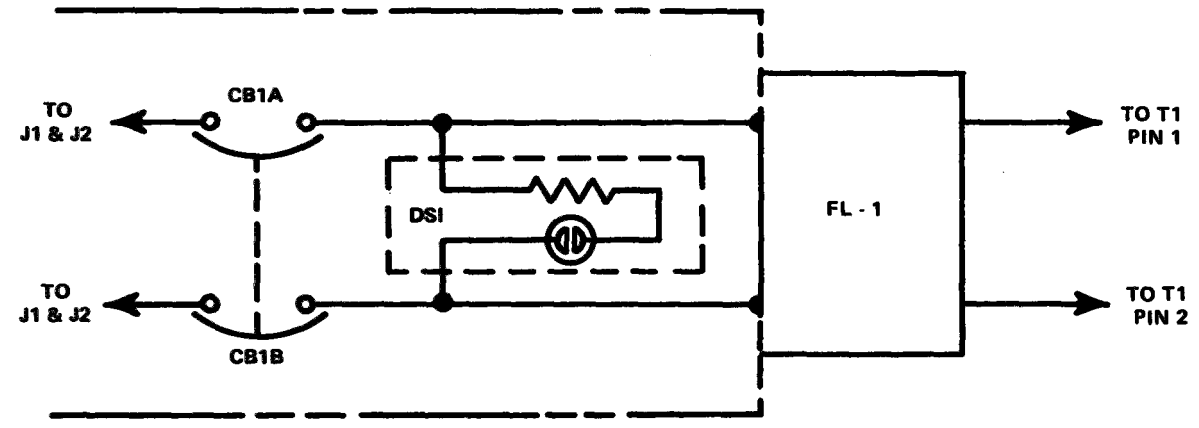
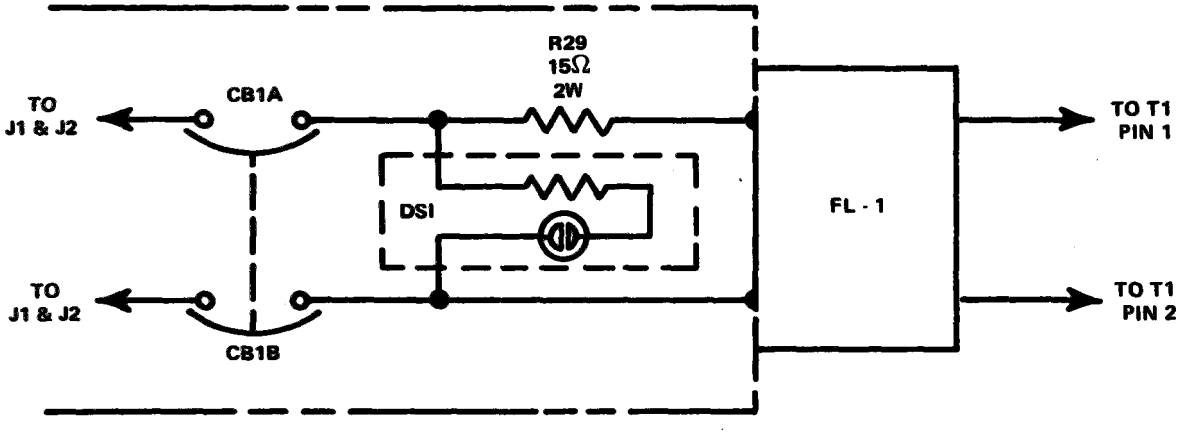


Figure 4-10. +200 Vdc Subassembly Schematic



Model A



Model B

Figure 4-11. Main Electrical Schematic

WARNING

Always secure the connector cap onto the front panel power connector before applying 115 Vac to the alternate power connector located at the rear of the generator assembly.

WARNING

Dangerous potentials up to 200 Vdc are present at exposed terminals and wiring within the sweep generator chassis. Exercise extreme caution when working inside this chassis.

4-10 PREPARATION. Prepare the sweep generator for adjustment as follows:

a. Obtain the required test equipment as listed in table 4-2.

b. Set the POWER switch to the OFF position and disconnect the power cord from the front panel power connect or.

c. Secure connector cap onto front panel power connector.

d. Remove generator assembly from combination cabinet.

e. Loosen twelve (12) quarter-turn fasteners on top and bottom dust covers; remove covers from the generator assembly.

f. Set front panel controls as follows (figure 1-1):

RANGE	VHF
RF ATTENUATOR	0 DB
EXT MARKER SIZE	MID RANGE
SWEEP WIDTH	WIDE
SWEEP WIDTH ADJUST	CW
FREQUENCY	200 MHZ
INT MARKER	OFF (All)
INT MARKER SIZE	MID RANGE
SWEEP RATE	VAR
SWEEP RATE ADJUST	CW

g. Connect power cord to power connector located at rear of generator assembly and to a 115 Vac, single phase, 60 Hz source.

h. Set POWER switch to the ON position and allow the sweep generator to warm up for twenty minutes.

4-11 ADJUSTMENT PROCEDURE. Procedures for adjusting the sweep generator are in paragraphs 4-12 through 4-19.

4-12 REGULATED +30 VOLTS SUPPLY.

a. Using multimeter, monitor regulated +30 Vdc at TP 3.

b. Adjust R12 to obtain an indication of +30 ± 0.6 Vdc.

c. Using oscilloscope, observe ac ripple voltage at TP 3. The ripple voltage must not exceed 6 mV.

4-13 REGULATED -30 VOLTS SUPPLY.

a. Using multimeter, monitor regulated -30 Vdc at TP 7.

b. Adjust R18 to obtain an indication of -30 ±0.6 Vdc.

c. Using oscilloscope, observe ac ripple voltage at TP 7. The ripple voltage must not exceed 4 mV.

4-14 REGULATED +200 VOLTS SUPPLY.

a. Using multimeter, monitor regulated +200 Vdc at TP11.

b. Adjust R24 to obtain an indication of +200 ±4 Vdc.

c. Using oscilloscope, observe ac ripple voltage at TP 11. The ripple voltage must not exceed 6 mV.

4-15 UNREGULATED +50 VOLTS.

a. Using multimeter, monitor unregulated +50 Vdc at TP 12. The voltage must be from +45 to +62 Vdc.

b. Using oscilloscope, observe ac ripple voltage at TP 12. The ripple voltage must not exceed 500 mV.

4-16 SWEEP RATE CIRCUIT.

a. Set SWEEP RATE control to MAN position.

b. Using VTVM, monitor voltage. It should be approxmately +20 Vdc at front panel SCOPE HORIZ connector.

c. Rotate SWEEP RATE ADJUST control CCW; then CW. The voltage must vary from O CCW to 18 CW +1.8 Vdc at either extreme.

d. Connect coaxial cable from SCOPE HORIZ connector to oscilloscope EXT HORIZ INPUT connector.

e. Adjust oscilloscope controls so that the beam is a dot centered on the extreme left vertical graticule line when SWEEP RATE ADJUST control is CCW and centered on the extreme right vertical graticule line when SWEEP RATE ADJUST control is CW.

NOTE

The oscilloscope is now adjusted to serve as a reference. Do not readjust its controls during adjustment of the rate circuit.

f. Set SWEEP RATE control to VAR position.

g. Rotate SWEEP RATE ADJUST control approximately 3/4 CW.

h. Adjust R108 (UP TRIG POINT) so that oscilloscope trace extends to the extreme right vertical graticule line.

i. Adjust R116 (LO TRIG POINT) so that oscilloscope trace extends to the extreme left vertical graticule line.

j. Alternately adjust R108 and R116 so that oscilloscope trace extends from the extreme left to the extreme right vertical graticule lines.

k. Set SWEEP RATE control to LINE position.

l. Alternately adjust R122 (LINE TRIG AMPL) for trace width and R106 (LINE DC LEVEL) for trace position so that oscilloscope trace extends from the extreme left to the extreme right vertical graticule line.

m. With SWEEP RATE control set to MAN position, note the extreme positions of oscilloscope beam as SWEEP RATE ADJUST control is rotated from CCW to CW.

n. Set SWEEP RATE control to VAR position and then to LINE position. The oscilloscope trace extremes obtained from each of these positions shall be identical to the trace extremes for the MAN position.

4-17 RF OUTPUT METER - LEVELER CIRCUIT.

a. Set front panel controls to positions described in paragraph 4-10f.

b. Set RANGE switch to UHF position, FREQUENCY to 1200 MHz, and SWEEP WIDTH control to NARROW position with SWEEP WIDTH ADJUST control CCW.

c. Using RF POWER METER as shown in figure 4-12, monitor RF power level at front panel RF OUT connector. It should be approximately 6 mW.

d. Rotate RF OUTPUT control CW.

e. Adjust R410 (LEVEL MAX) to obtain a 6 mW power level as indicated by RF POWER METER.

f. Adjust RF OUTPUT control to obtain a 5 mW power level as indicated by RF POWER METER.

g. Adjust R562 (METER CAL) to obtain 0.5 Vrms as indicated by front panel RF OUTPUT meter.

h. Using a coaxial cable, jumper front panel RF OUT connector to RF DETECTOR IN connector.

i. Using coaxial cables, connect oscilloscope to sweep generator as shown in figure 4-13.

j. Adjust oscilloscope controls to obtain a display as shown in figure 4-14.

k. Set RF ATTENUATOR to the 10 dB position; note output level of oscilloscope display.

l. Set RF ATTENUATOR to the 0 dB position.

m. Rotate RF OUTPUT control CCW.

n. Adjust R411 (LEVEL MIN) so that output level of oscilloscope display is identical with output level noted in step k (10 dB down).

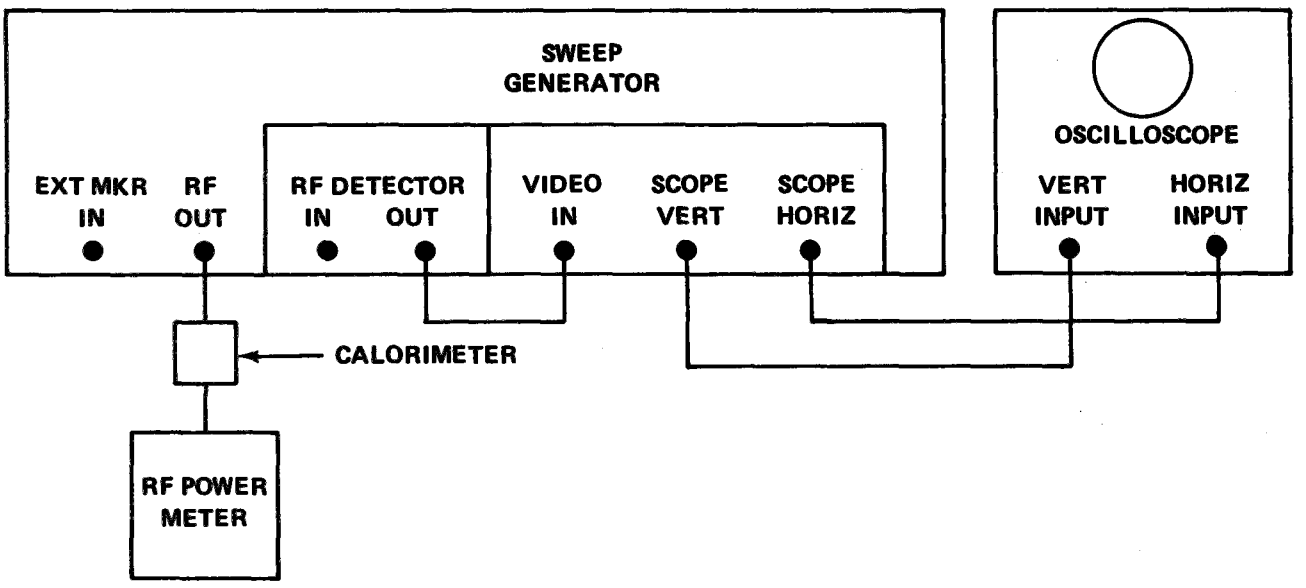


Figure 4-12. Adjustment Connections (RF Output Meter-Leveler Circuit)

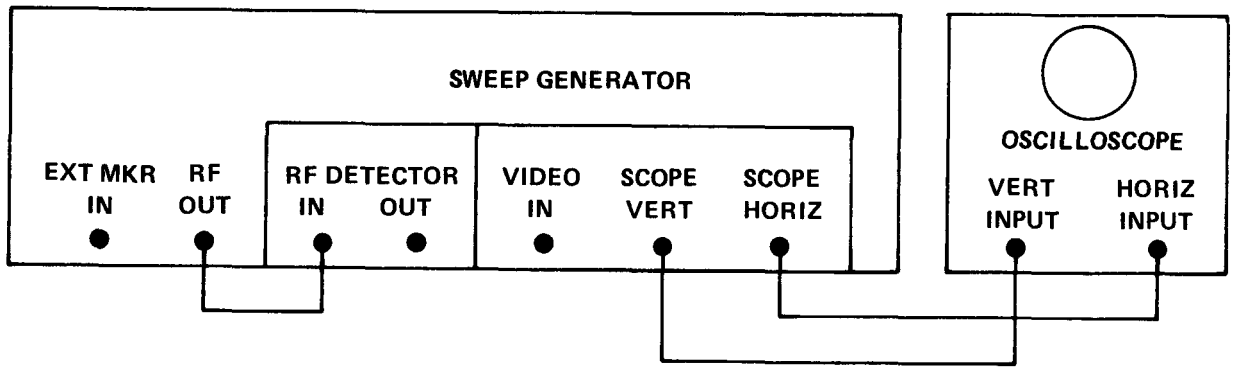


Figure 4-13. Adjustment Connections (Sweep Drive Ckt.)

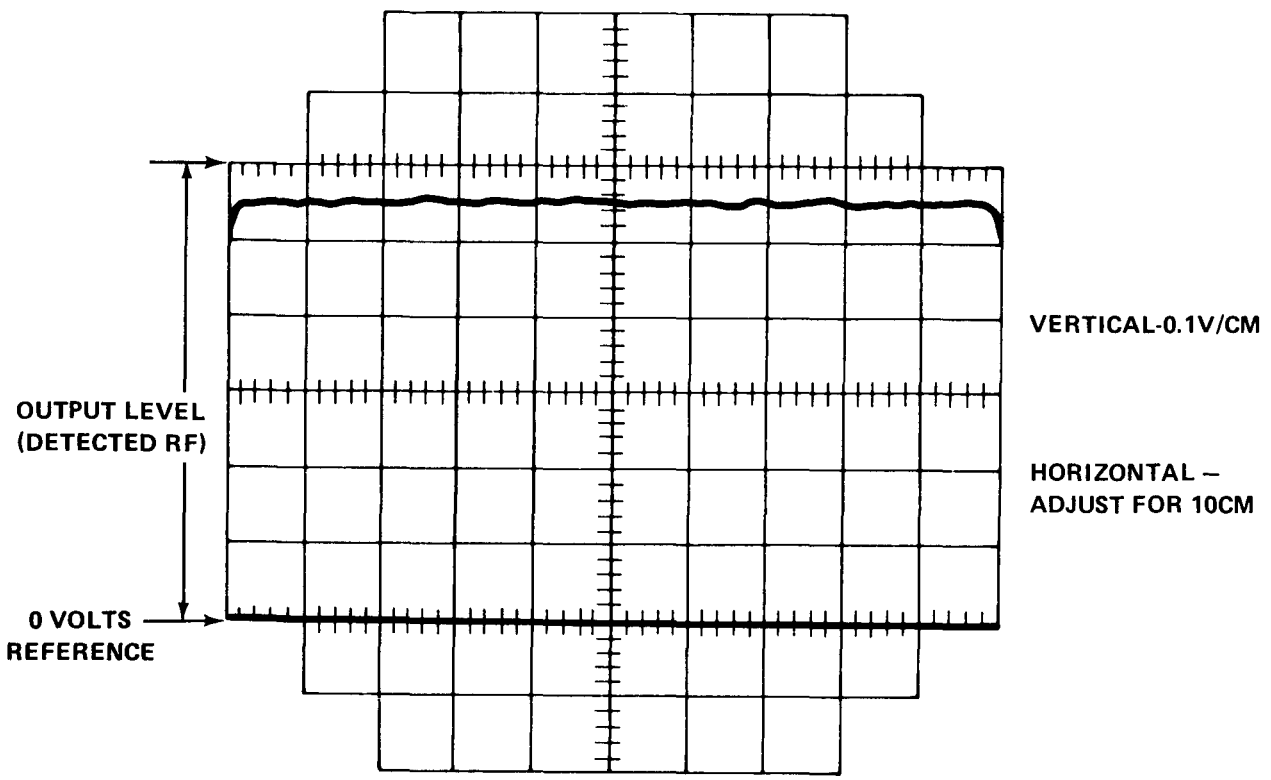


Figure 4-14. Oscilloscope "Box Pattern" Display (Typical)

4-18 SWEEP DRIVE CIRCUIT.

a. Set front panel controls to positions described in paragraph 4-10f.

b. Connect oscilloscope to sweep generator as shown in figure 4-13.

c. Set RANGE switch to UHF position, FREQUENCY to 1000 Mhz; FINE TUNING control to mid-range.

d. Adjust RF OUTPUT control for an indication of 0.5 Vrms on RF OUTPUT meter.

e. Adjust oscilloscope controls to obtain a display as shown in figure 4-14.

f. Set 50 MHz INT MARKER switch to ON.

g. Slowly rotate SWEEP WIDTH ADJUST control CCW until only one internal frequency marker remains on ocsilloscope trace. This marker represents a frequency of 1000 MHz.

h. Simultaneously continue to slowly rotate SWEEP WIDTH ADJUST control CCW and adjust FINE TUNING CAL control to maintain marker near center of oscilloscope trace.

i. While observing 1000 MHz marker, slowly rotate SWEEP WIDTH ADJUST control CW; note position of this marker when control is at the maximum CW position.

NOTE

When the SWEEP WIDTH ADJUST control reaches the maximum CW position, the 1000 MHz marker will usually be to the right of the center vertical graticule line.

j. Rotate SWEEP WIDTH ADJUST control approximately 1/3 CCW.

k. Adjust R139 (MED SWCF) so that 1000 MHz marker petition is identical with 1000 MHz marker position when SWEEP WIDTH ADJUST control is CW.

l. Rotate SWEEP WIDTH ADJUST control CW.

m. Adjust R144 (WIDE SW LIMIT) CCW until oscilloscope trace stops shifting (approximately two turns).

n. Determine position of 1000 MHz marker on oscilloscope trace by rotating the SWEEP WIDTH ADJUST control CCW until only one marker remains on oscilloscope trace; then return control to CW position.

o. Using 1000 MHz marker as a reference, determine position of 750 MHz marker (5th marker to left of 1000 MHz marker).

p. Adjust R145 (WIDE SWCF) CCW until 750 MHz marker is at extreme left of horizontal trace.

q. Determine position of 1000 MHz marker on oscilloscope trace (Step n).

r. Using 1000 MHz marker as a reference, determine position of 1150 MHz marker (3rd marker to right of 1000 MHz marker).

NOTE

Both the 750 MHz marker (extreme left) and the 1150 MHz marker are now present on the oscilloscope display. It is essential to note the positions of these markers now and during the adjustments perfomed in the next step of this procedure.

s. Alternately adjust R145 and R144 CW until 750 MHz marker and 1150 MHz marker are positioned at the extreme ends of the horizontal trace as shown in figure 4-15.

t. Set SWEEP WIDTH control to NARROW position.

u. Rotate SWEEP WIDTH ADJUST control CCW until 1000 MHz marker approximates that shown in figure 4-16.

v. Slowly adjust FREQUENCY dial about the 700 MHz point to position 700 MHz marker near the center of oscilloscope trace.

NOTE

The 700 MHz marker may not be present on the oscilloscope trace when the frequency dial is set exactly on 700 but will appear when the dial is slowly rotated within one dial division of the 700 MHz point.

w. Note extent of deviation between this frequency dial setting and 700 MHz mark; adjust FREQUENCY dial to midpoint of this deviation.

x. Slowly adjust FINE TUNING control to position 700 MHz marker near center of oscilloscope trace.

y. Set RANGE switch to VHF position.

z. Set FREQUENCY dial to 300 MHz.

aa. Slowly adjust C515 (CW OSC FREQ ADJ) to position 300 MHz marker near center of oscilloscope trace.

bb. Slowly adjust FREQUENCY dial about the 0.5 MHz point to position slope of “beat frequency notch” near center of oscilloscope trace as shown in figure 4-17.

cc. Note extent of deviation between this frequency dial setting and 0.5 MHz mark; adjust FREQUENCY dial to mid-point of this deviation.

dd. Slowly readjust C515 to reposition slope of “beat frequency notch” near center of oscilloscope trace.

ee. Set SWEEP WIDTH control to WIDE and rotate SWEEP WIDTH control CW.

ff. Adjust FREQUENCY dial to position “beat frequency notch” at the extreme left of horizontal trace as shown in figure 4-18.

gg. Simultaneously adjust FREQUENCY dial to maintain “beat frequency notch” at this position and adjust R563 (VHF SW LIMIT) to obtain a 300 MHz bandwidth as shown in figure 4-18.

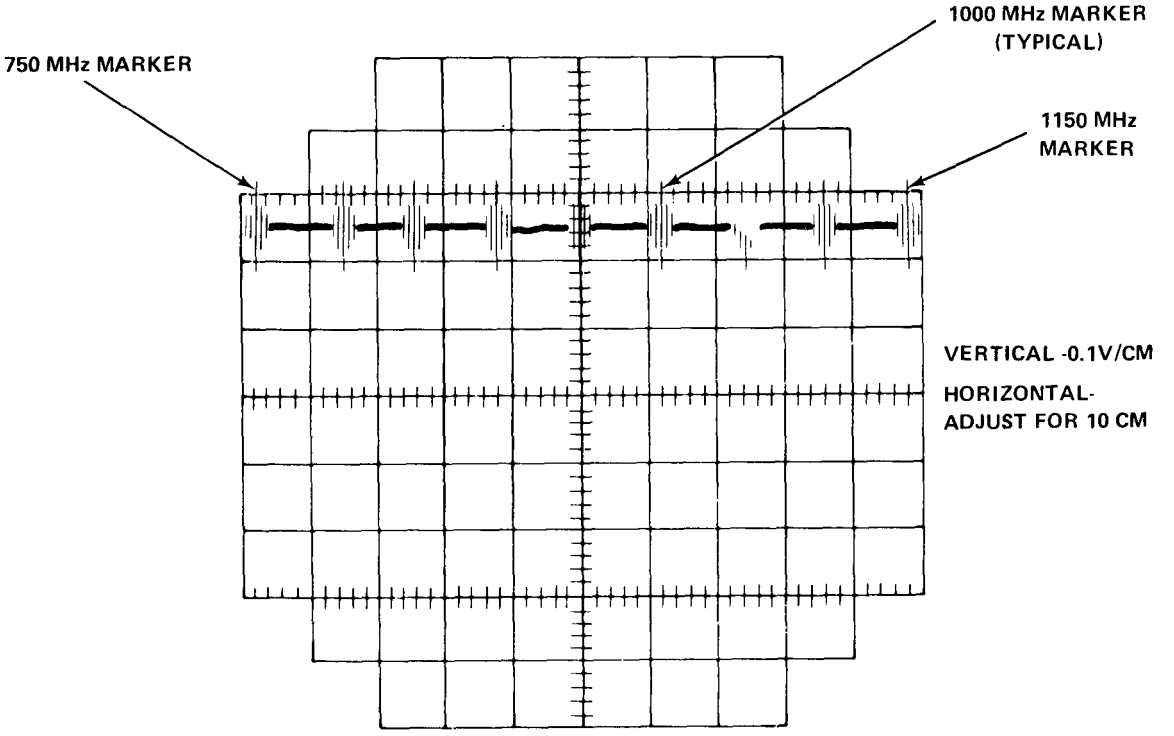


Figure 4-15. Oscilloscope Display (Sweep Drive Circuit)

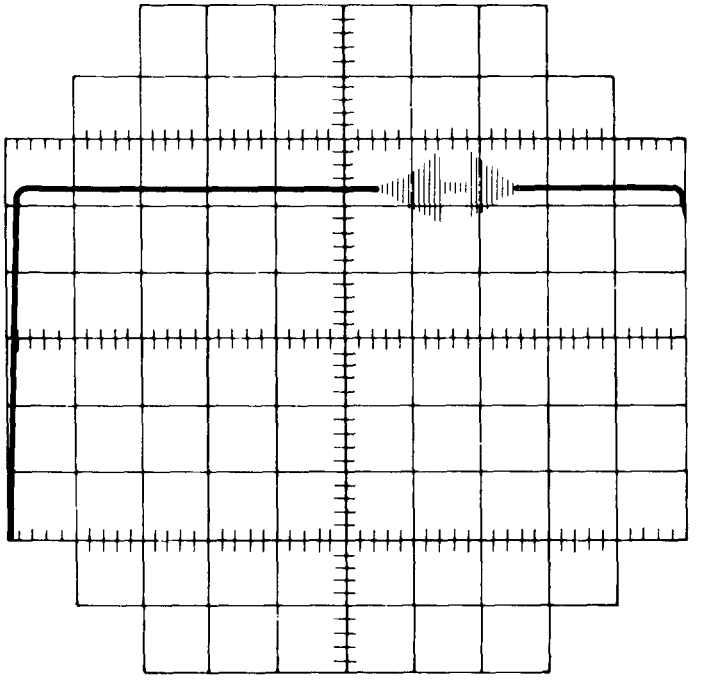


Figure 4-16. Internal Frequency Marker at Reduced Sweep Width

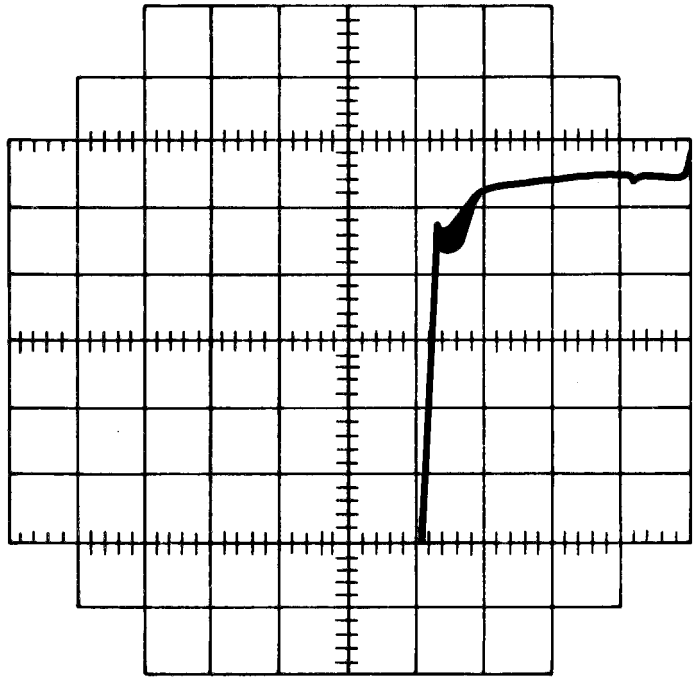


Figure 4-17. Slope of "Beat Frequency Notch"

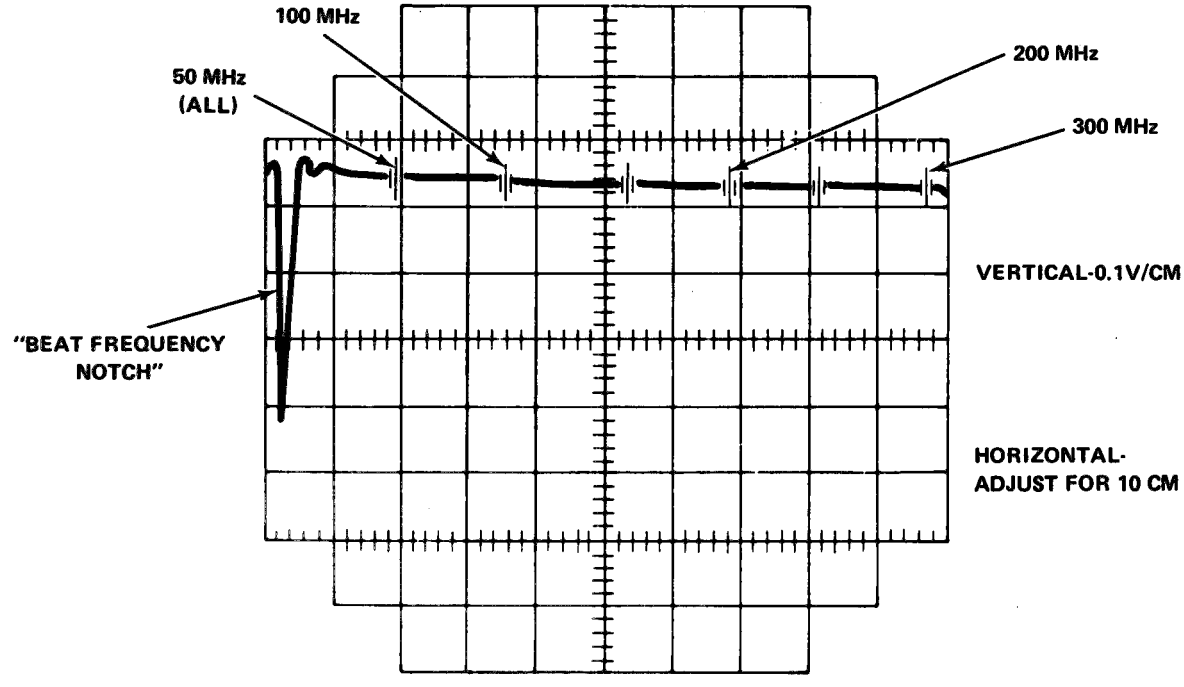


Figure 4-18. Frequency Response at Maximum Sweep Width (VHF)

4-19 MARKER CIRCUIT.

a. Set front panel controls to positions described in paragraph 4-10f.

b. Connect oscilloscope to sweep generator as shown in figure 4-19.

c. Set 50 MHz INT MARKER switch to ON.

d. Set SWEEP WIDTH control to NARROW and rotate SWEEP WIDTH ADJUST control approximately 1/4 CW.

e. Adjust RF OUTPUT control for an indication of 0.5 Vrms on RF OUTPUT meter.

f. Adjust FINE TUNING control to position 200 MHz marker near center of oscilloscope trace.

g. Adjust R303 (MKR AMPL ADJ) to obtain a marker amplitude of 100 mV peak-to-peak.

h. Set 50 MHz INT MARKER switch to OFF and 10 MHz INT MARKER switch to ON.

i. Adjust R302 (MKR AMPL ADJ) to obtain a marker amplitude of 100 mV peak-to-peak.

j. Set 10 MHz INT MARKER switch to OFF and the 1 MHz INT MARKER switch to ON.

k. Adjust R301 (MKR AMPL ADJ) to obtain a marker amplitude of 30 mV peak-to-peak.

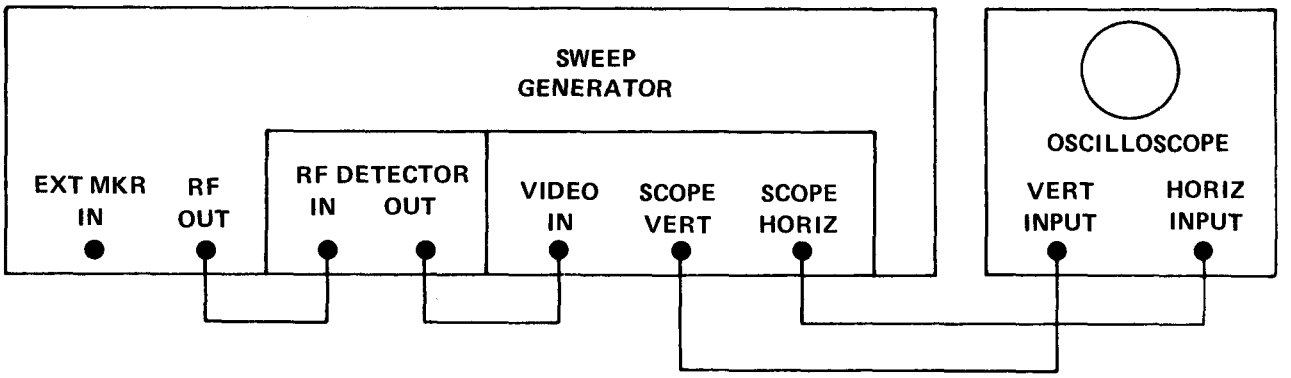


Figure 4-19. Adjustment Connections (Marker Circuit)

Section V. DIRECT AND GENERAL SUPPORT TESTING PROCEDURES

4-20 TEST AND PROCEDURES. The following testing procedures are to be used to determine the serviceability of the signal generator. For test and procedures refer to paragraph 4-9.

APPENDIX A

REFERENCES

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	Procedures for Destruction of Electronic Materiel to Prevent Enemy Use
AR 700-42	Classification Reclassification, Maintenance, Issuance, and Reporting of Maintenance Training Aircraft
CTA 50-970	Expendable Items (Except Medical, Class V, Repair Parts and Heraldic Items)
DA FORM 2028	Recommended Changes to publications and Blank Forms
DA FORM 2404	Equipment Inspection and Maintenance Worksheet
DA PAM 3104	Index of Technical Publications
DA PAM 310-6	Military Publications: Index of Supply Catalogs and Supply Manuals (Excluding Types 7, 8, and 9)
DA PAM 310-7	Index of Logistics Publications
Standard Form 364	Report of Discrepancy (ROD)
DMWR 32-6625-022	Depot Maintenance Work Requirement for Sweep Signal Generator SG-677/U
SB 11-573	Painting and Preservation Suplies Available for Field Equipment Use for Electronics Command Equipment
SB 700-20	Army Adopted Items Materiel and List of Reportable Items
SB 708-41/42	Federal Supply Code for Manufacturers, United States and Canada. Name to Code and Code to Name (GSA FSS H4-1/H 4-2)
SF 368	Quality Deficiency Report
TB 43-0118	Field Instructions for Painting and Preserving Electronics Command Equipment

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1 GENERAL.

a. This setion provides a general explanation of all maintenance and repair functions authorized at the various maintanance 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.

B-2 MAINTENANCE FUNCTIONS

a. lnspect. To determine the serviceaibilty of an item by comparing its physical, mecganical, and/or electrical characteristics with established standards through examination.

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

c. Service. Operatiom 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 charactersistics to specified parameters.

e. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or teat measuring and diagnostic equipment 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 discrpancy in the accuracy of the instrument being compared.

f Install. The act of placing, seating, or fixing into position an item, past, or module (component or assembly) in a manner to allow the proper functioning of an equip ment or system.

g. Replae. The act of substituting a serviceable like type part, subassembly, or module for an unserviceable counterpart.

h. 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), and item, or system.

i. 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.

j. 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 materiel 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 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. B-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:

O . . . . . Organizational maintenance
F . . . . . Direct 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.

B-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.

B-5 EXPLANATION OF COLUMNS IN REMARKS, SECTION IV. Not Applicable.

Section II. MAINTENANCE ALLOCATION CHART

(1) Group Number	(2) Component/Assembly	(3) Maintenance nctio	(4) Maintenance level C	O	F	H	D	(5) Tools and equipment	(6) Remarks
00	SWEEP SIGNAL GENERATOR	Inspect		0.3				2	
		Test			1.0				
		Service		0.5				2	
		Install		0.5				2	
		Replace		0.5				2	
		Repair			0.8			1, 2	
		Adjust			1.5			1-8	
		Calibrate					**		
		Overhaul					**		
		Rebuild					**		
01	DUST COVER SUBASSEMBLY	Inspect		0.1					
		Install		0.1				2	
		Replace		0.1				2	
		Repair		0.2				2	
02	SWEEP RATE SUBASSEMBLY	Inspect		0.1				2	
		Test			0.3			1-8	
		Install		0.1				2	
		Replace		0.1				2	
		Repair			0.5			1, 2	
03	SWEEP DRIVE SUBASSEMBLY	Inspect		0.1				2	
		Test			0.3			1-8	
		Install		0.1				2	
		Replace		0.1				2	
		Repair			0.5			1, 2	
04	FINE TUNING SUBASSEMBLY	Inspect		0.1				2	
		Test			0.2			1-8	
		Repair			0.3			1, 2	
05	LEVELER SUBASSEMBLY	Inspect		0.1				1	
		Test			0.3			1-8	
		Install		0.1				2	
		Replace		0.1				2	
		Repair			0.5			1, 2	
06	VERTICAL BLANKING SUBASSEMBLY	Inspect		0.1				2	
		Test			0.2			1-8	
		Repair			0.3			1, 2	
07	MARKER SUBASSEMBLY	Inspect		0.1				2	
		Test			0.3			1-8	
		Install		0.1				2	
		Replace		0.1				2	
		Repair			0.5			1, 2	
08	+30 - 30 Vdc SUPPLY SUBASSEMBLY	Inspect		0.1				2	
		Test			0.3			1-8	
		Install		0.1				2	
		Replace		0.1				2	
		Repair			0.5			1, 2	

** Work time is included in DMWR

(1) Group Number	(2) Component/Assembly	(3) Maintenance function	(4) Maintenance level					(5) Tools and equipment	(6) Remarks
			C	O	F	H	D		
09	+200 Vdc SUPPLY SUBASSEMBLY	Inspect		0.1				2	
		Test			0.3			1-8	
		Install		0.1				2	
		Replace		0.1				2	
		Repair			0.5			1, 2	
10	PRIMARY POWER SUPPLY SUBASSEMBLY	Inspect		0.1				2	
		Test			0.3			1-8	
		Repair			0.5			1, 2	
11	MAIN CHASSIS SUBASSEMBLY	Inspect		0.3				2	
		Test			0.3			1-8	
		Service		0.3				2	
		Repair			0.5			1, 2	
12	COAXIAL CABLE SUBASSEMBLY	Inspect		0.1				2	
		Test			0.2			3	
		Repair			0.3			1, 2	
13	COAXIAL CABLE SUBASSEMBLY	Inspect		0.1				2	
		Test			0.2			3	
		Repair			0.3			1, 2	
14	POWER CORD SUBASSEMBLY	Inspect		0.1				2	
		Test			0.2			3	
		Repair			0.3			1, 2	
15	POWER CORD SUBASSEMBLY, INTERNAL	Inspect		0.1					
		Test			0.2			3	
		Repair			0.3			1, 2	
16	SERVICE PRINTED CIRCUIT BOARD SUBASSEMBLY	Inspect		0.1				2	
		Test			0.2			3	
		Repair			0.2			1. 2	
17	UHF OSCILLATOR SUBASSEMBLY	Install			0.2			2	
		Replace			0.2			2	
		Repair					**		
1701	BASE PLATE SUBASSEMBLY	Repair					**		
18	UHF/VHF RANGE SWITCH	Repair					**		
19	VHF SUBASSEMBLY	Install			0.2			2	
		Replace			0.2			2	
		Repair					**		
1901	VHF PRINTED CIRCUIT BOARD	Repair					**		
20	MONITOR/MIXER SUBASSEMBLY	Install			0.2			2	
		Replace			0.2			2	

**Work time is included in DMWR

Group Number	(2) Component/Assembly	(3) Maintenance function	(4) Maintenance level C	O	F	H	D	(5) Tools and equipment	(6) Remarks
21	RF DETECTOR ·	Install Replace Repair			0.2 0.2		 1*	2 2	

1*Work time is included in DMWR

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS

(1) REFERENCE CODE	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(4) NATIONAL/NATO STOCK NUMBER	(5) TOOL NUMBER
1	O	TOOL KIT,TK-100/G(80058)	5180-00-605-0079	TK-100/G
2	O	TOOL KIT,TK-105/G(80058)	5180-00-610-8177	TK-105/G
3	F	MULTIMETER,AN/USM-223(80058)	6625-00-999-7465	AN/USM-223
4	F	OSCILLOSCOPE RM 15 (80009)	6625-00-553-4699	RM 15
5	F	VTVM#3006(50423)		#3006
6	F	RF POWER METER(77327) (TYPE 6685)WITH ADAPTER (TYPE N685-2)		6685 N685-2
7	F	RF COAXIAL CABLE,ADAPTERS JUNCTIONS,ETC.		
8	F	RF COAXIAL CABLE ASSEMBLY,50 OHM		

Section IV. REMARKS

Reference code	Remarks
	NOT APPLICABLE

APPENDIX C

REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

C-1 SCOPE. This apppenix lists spares and repair parts; special tools; special Test, Measurement, and Diagnostic Euipment (TMDE), and other special support equipment required for performance of organizational, direct support, and general support maintenance of the Sweep Signal Generator SG-677/U. It authorizes the requisitioning and issue of spare and repair parts as indicated by the source and maintenace codes.

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

a. Section II. Reprair 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 fuctional 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. Specail 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.

C-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 :

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
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 70042.

(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:

Code	Application/Explanation
O	Support item is removed, replaced, used at the organizational level.
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:

Code	Application/Explanation
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.
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 y code is entered in the fifth position of the uniform SMR code format as follows:

Recoverability Code	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
F	Reparable item. When uneconomically reparable, condemn and dispose at the direct support level.
D	Reparable 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 708-41/42 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, sub functional 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.).

C-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:

Code	Used On
A	Serial No. 474 and Below
B	Serial No. 475 and Above

C-5 HOW TO LOCATE REPAIR PARTS.

a. When National Stock Number or Part Number is unknown:

(1) *First.* 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.

(2) *Second.* Find the illustration covering the functional group or subgroup to which the item belongs.

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

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number notes on the illustration.

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 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) *Second.* After finding the figure and item number, locate the figure and item number in the repair parts list.

C-6 ABBREVIATIONS. Not Applicable

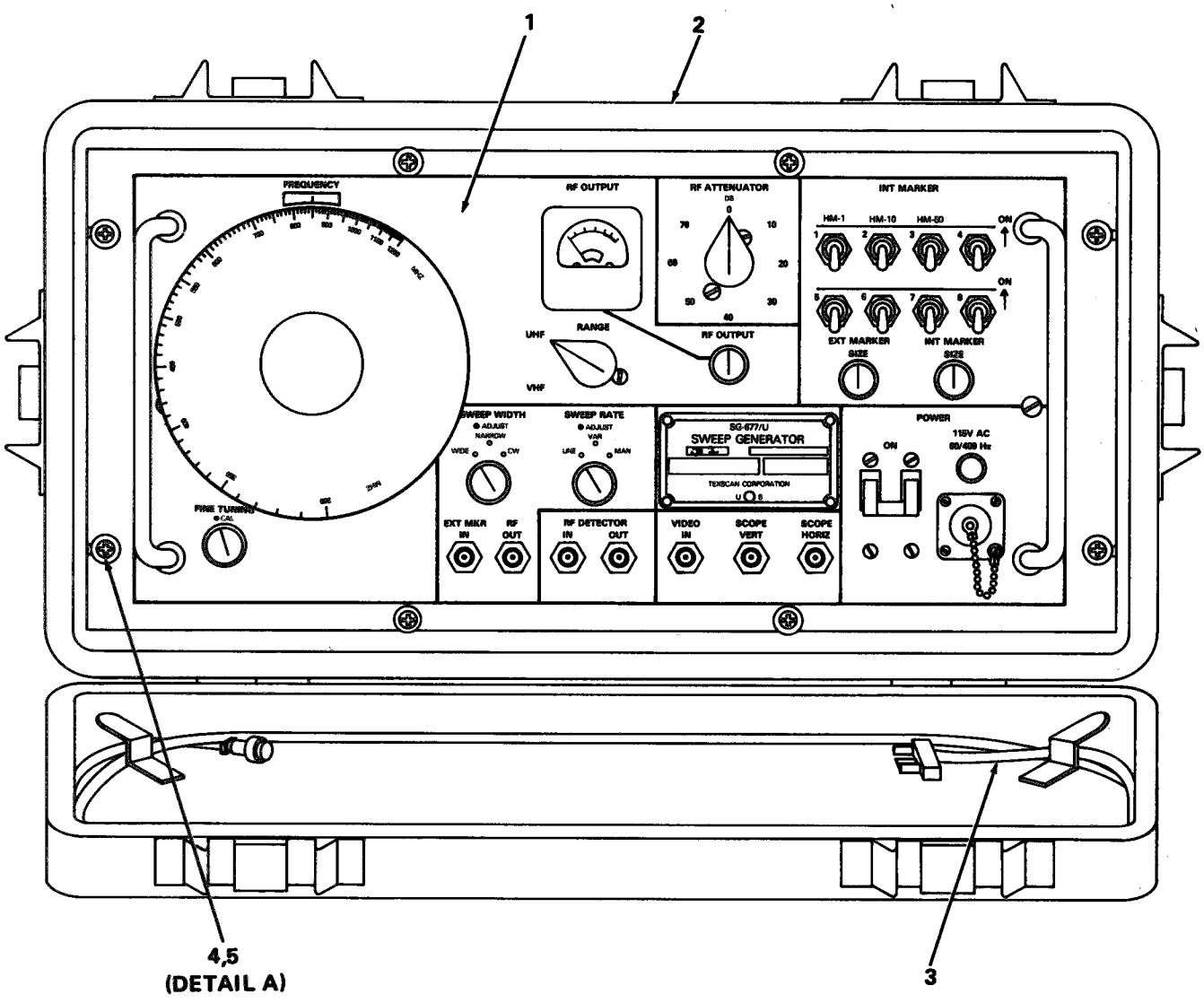


Figure C-1. Sweep Signal Generator SG-677/U (Sheet 1 of 4)

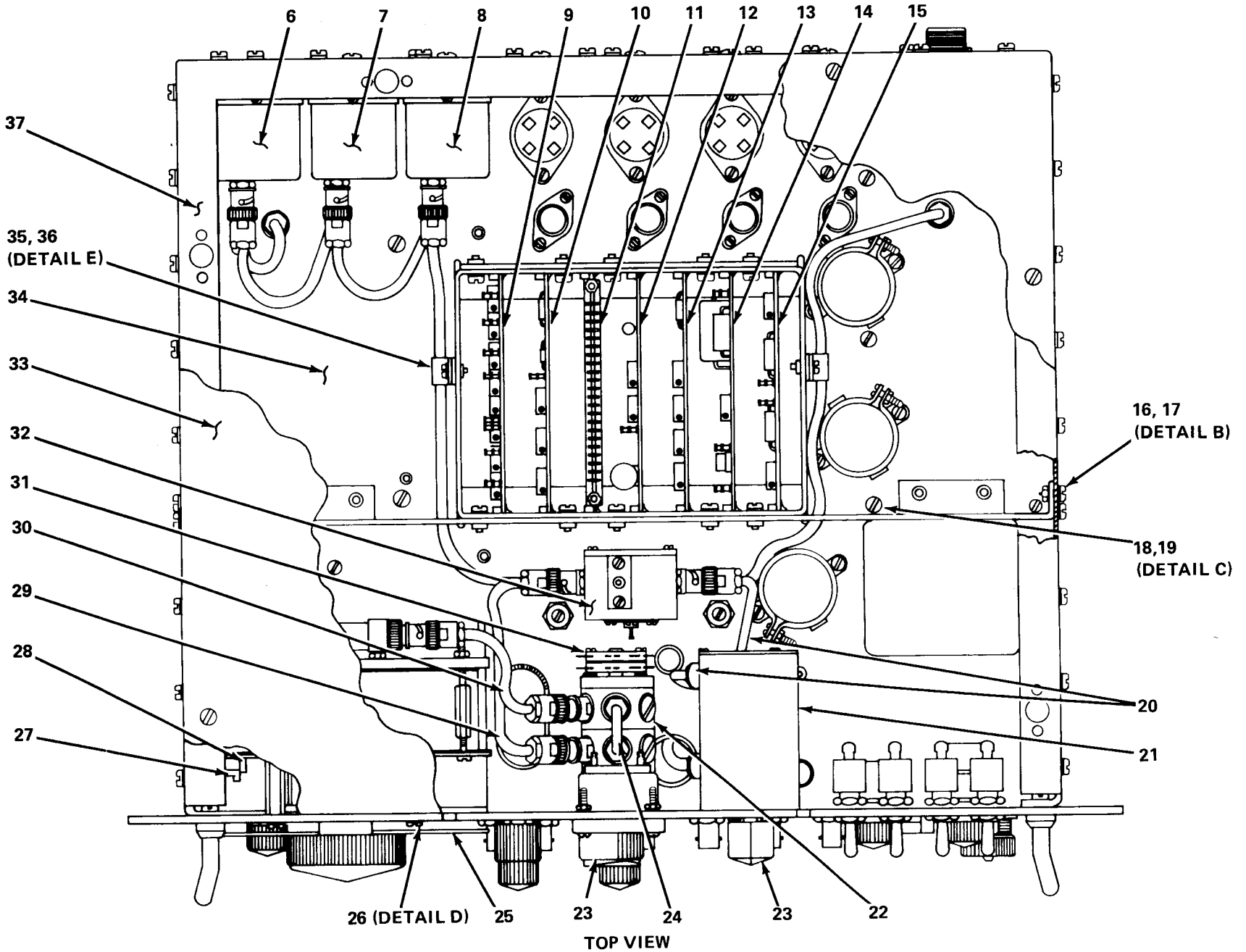


Figure C-1. Sweep Signal Generator SG-677/U (Sheet 2 of 4)

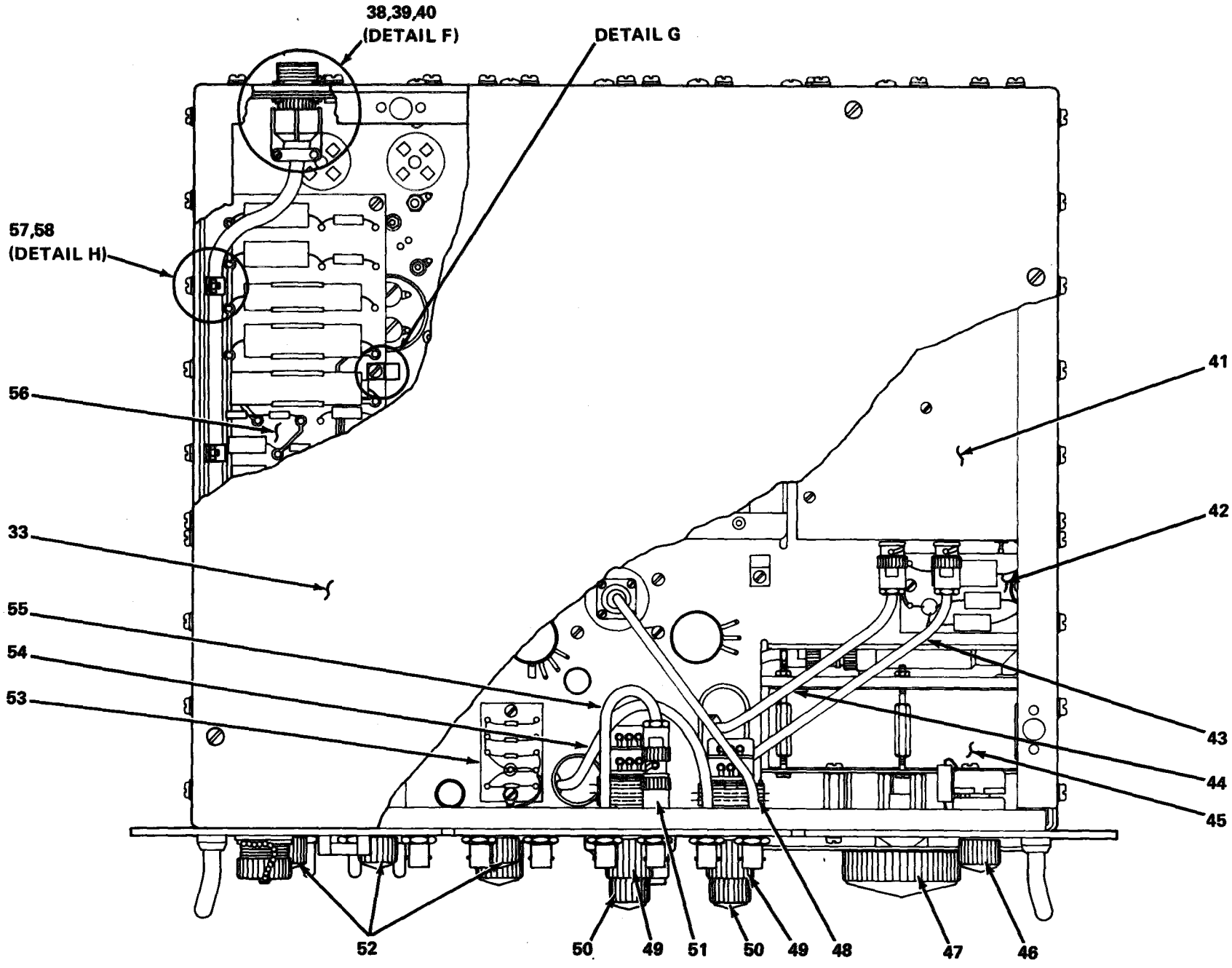


Figure C-1. Sweep Signal Generator SG-677/U (Sheet 3 of 4)

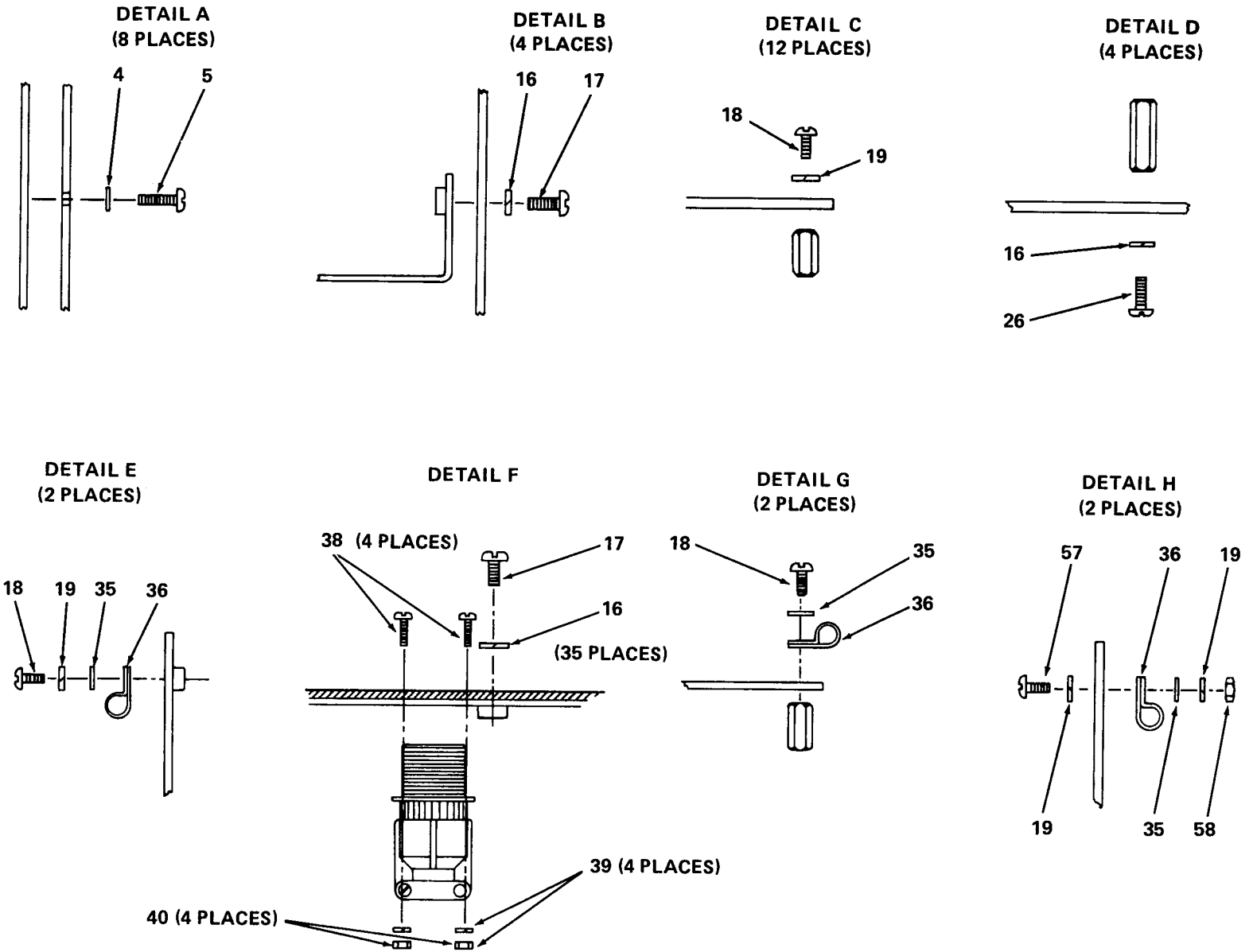


Figure C-1. Sweep Signal Generator SG-677/U (Sheet 4 of 4)

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 00 SWEEP SIGNAL GENERATOR SG-677/U		
C-1	1	XDFFF		C200-262	23042	SWEEP SIGNAL GENERATOR ASSEMBLY	EA	1
C-1	2	PADDD	6625-00-443-6416	82567SR	11357	ENCLOSURE,COMBINATION CABINET	EA	1
C-1	3	XDFFF		R204-311	23042	POWER CORD SUBASSEMBLY	EA	1
C-1	4	XDOZZ		A050-195	23042	WASHER,CUP	EA	8
C-1	5	XDOZZ		050-238	23042	SCREW,#10-32X1 PAN HEAD	EA	8
C-1	6	PAODD	6625-00-494-2953	D204-320	23042	MARKER SUBASSEMBLY,HM-1	EA	1
C-1	7	PAODD	6625-00-222-2444	D204-321	23042	MARKER SUBASSEMBLY, HM-10	EA	1
C-1	8	PAODD	6625-00-420-6225	D204-322	23042	MARKER SUBASSEMBLY, HM-50	EA	1
C-1	9	PAOFF	6625-00-420-6200	B204-299	23042	MARKER SUBASSEMBLY	EA	1
C-1	10	PAOFF	6625-00-420-6198	B204-298	23042	SWEEP DRIVE SUBASSEMBLY	EA	1
C-1	11	PAOFF	6625-00-400-3690	B204-297	23042	SERVICE SUBASSEMBLY	EA	1
C-1	12	PAOFF	6625-00-420-2384	B204-296	23042	LEVELER SUBASSEMBLY	EA	1
C-1	13	PAOFF	6625-00-420-2383	B204-295	23042	RATE SUBASSEMBLY	EA	1
C-1	14	PAOFF	6625-00-420-2382	B204-294	23042	+200 VDC SUPPLY SUBASSEMBLY	EA	1
C-1	15	PAOFF	6625-00-458-2450	B204-293	23042	+30,-30 VDC SUPPLY SUBASSEMBLY	EA	1
C-1	16	PAFZZ	5310-00-933-8119	MS35338-137	96906	WASHER, SPLIT LOCK#8	EA	43
C-1	17	PAFZZ	5305-00-054-6668	MS351957-43	96906	SCREW #8-32X3/8 PAN HEAD	EA	39
C-1	18	PAFZZ	5305-00-054-6652	MS351957-28	96906	SCREW #6-32X3/8 PAN HEAD	EA	16
C-1	19	XDFZZ		050-246	23042	WASHER,SPLIT LOCK#6	EA	18
C-1	20	XDFFF		B204-342	23042	COAXIAL CABLE SUBASSEMBLY	EA	1
C-1	21	PAFDD	5985-00-274-1297	B200-623-00	23042	ROTARY ATTENUATOR ASSEMBLY	EA	1
C-1	22	XDFDD		B204-327	23042	RANGE SWITCH SUBASSEMBLY	EA	1
C-1	23	PAOZZ	5355-00-471-5644	2P2B	23480	KNOB	EA	2
C-1	24	XDFFF		B204-342-01	23042	COAXIAL CABLE SUBASSEMBLY	EA	1

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-1	25	XDOZZ		B024-017	23042	DIAL, UHF OSCILLATOR	EA	1
C-1	26	PAFZZ	5310-00-929-6395	MS35338-136	96906	SCREW,#6-32X58 PAN HEAD	EA	4
C-1	27	XDFZZ		JAN3020B	81349	DIODE,ZENER	EA	1
C-1	28							
C-1	29	XDFFF		B204-342-04	23042	COAXIAL CABLE SUBASSEMBLY	EA	1
C-1	30	XDFFF		B204-342-03	23042	COAXIAL CABLE SUBASSEMBLY	EA	1
C-1	31							
C-1	32	PAFDD	6625-00-420-6227	D204-325	23042	MONITOR-MIXER SUBASSEMBLY	EA	1
C-1	33	XDOFF		B204-318	23042	DUST COVER SUBASSEMBLY	EA	2
C-1	34	XDDDD		D204-329	23042	MAIN CHASSIS SUBASSEMBLY	EA	1
C-1	35	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT,#6	EA	6
C-1	36	XDFZZ		017-026	23042	CLAMP,CABLE,SMALL	EA	6
C-1	37	XDDDD		D204-319	23042	CHASSIS WRAP BRACKET SUBASSEMBLY	EA	1
C-1	38	XDFZZ		MS35233-15	23042	SCREW #4-40X3/8 PAN HEAD	EA	4
C-1	39	PAFZZ	5310-00-933-8118	MS35338-135	96906	WASHER, SPLIT LOCK#4	EA	4
C-1	41	PAFDD	6625-00-420-6229	D204-324	23042	VHF SUBASSEMBLY	EA	1
C-1	42	XDFFF		B204-353	23042	FINE TUNING SUBASSEMBLY	EA	1
C-1	43	XDFFF		B204-342-08	23042	COAXIAL CABLE SUBASSEMBLY	EA	1
C-1	44	XDFFF		B204-342-06	23042	COAXIAL CABLE SUBASSEMBLY	EA	1
C-1	45	PAFDD	6625-00-420-6226	D204-323	23042	UHF OSCILLATOR SUBASSEMBLY	EA	1
C-1	46	PAOZZ	5355-00-199-4088	A042-035	23042	KNOB	EA	1
C-1	47	XDOZZ		042-039	23042	KNOB	EA	1
C-1	48	XDFFF		B204-342-09	23042	COAXIAL CABLE SUBASSEMBLY	EA	1
C-1	49	PAOZZ	5355-00-237-8191	2N2BC	23480	KNOB	EA	2
C-1	50	PAOZZ	5355-00-237-8188	1C1B	23480	KNOB	EA	2
C-1	51	XDFDD		A204-346	23042	RF DETECTOR ASSEMBLY	EA	1

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-1	52	PAOZZ	5355-00-237-8187	1E2B	23480	KNOB		EA	3
C-1	53	XDFFF		B204-339	23042	BLANKING SUBASSEMBLY		EA	1
C-1	54	XDFFF		B204-342-07	23042	COAXIAL CABLE SUBASSEMBLY		EA	1
C-1	55	XDFFF		B204-342-02	23042	COAXIAL CABLE SUBASSEMBLY		EA	1
C-1	56	XDFFF		B204-326	23042	PRIMARY POWER SUPPLY SUBASSEMBLY		EA	1
C-1	57	PAFZZ	5305-00-054-6671	MS351957-46	96906	#8-32 X 5/8 PAN HEAD		EA	2
C-1	58	PAFZZ	5310-00-934-9759	MS35649-284	96906	NUT,HEX #8-32		EA	2

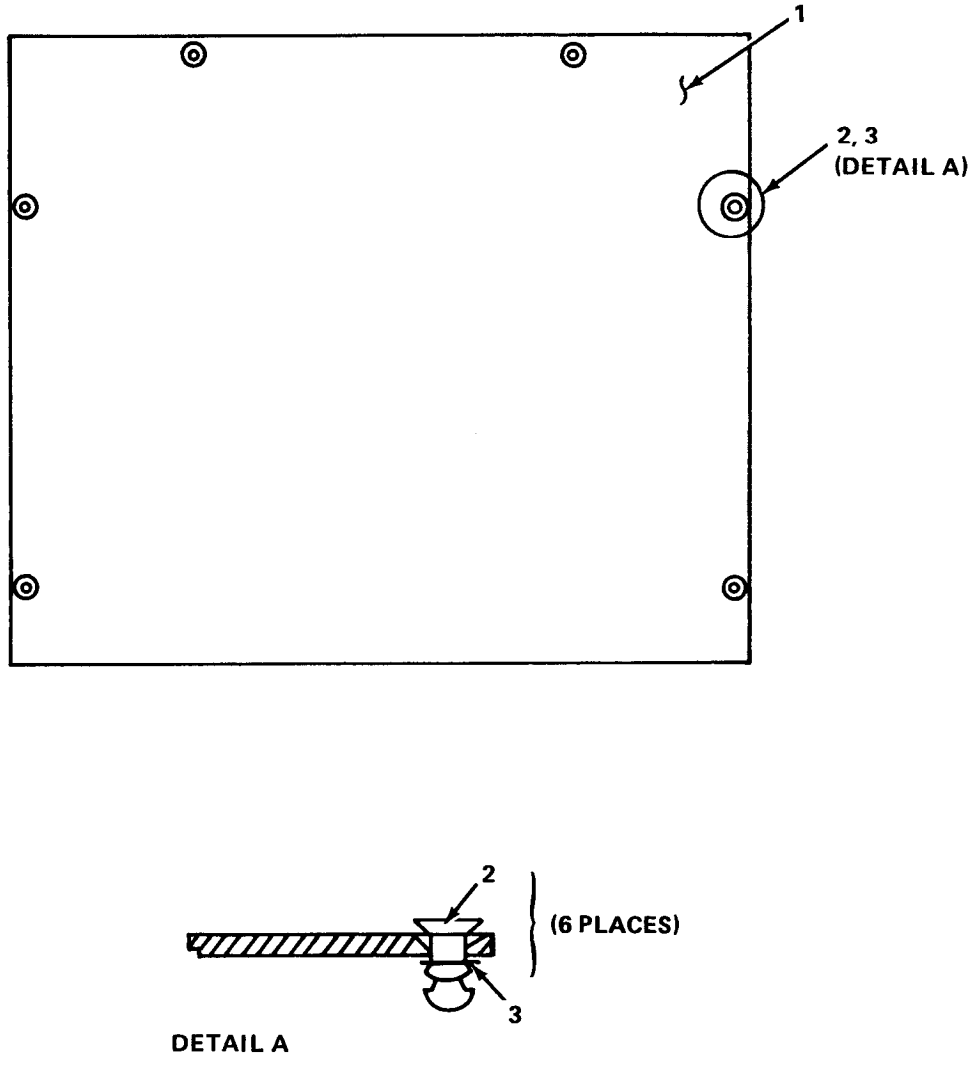
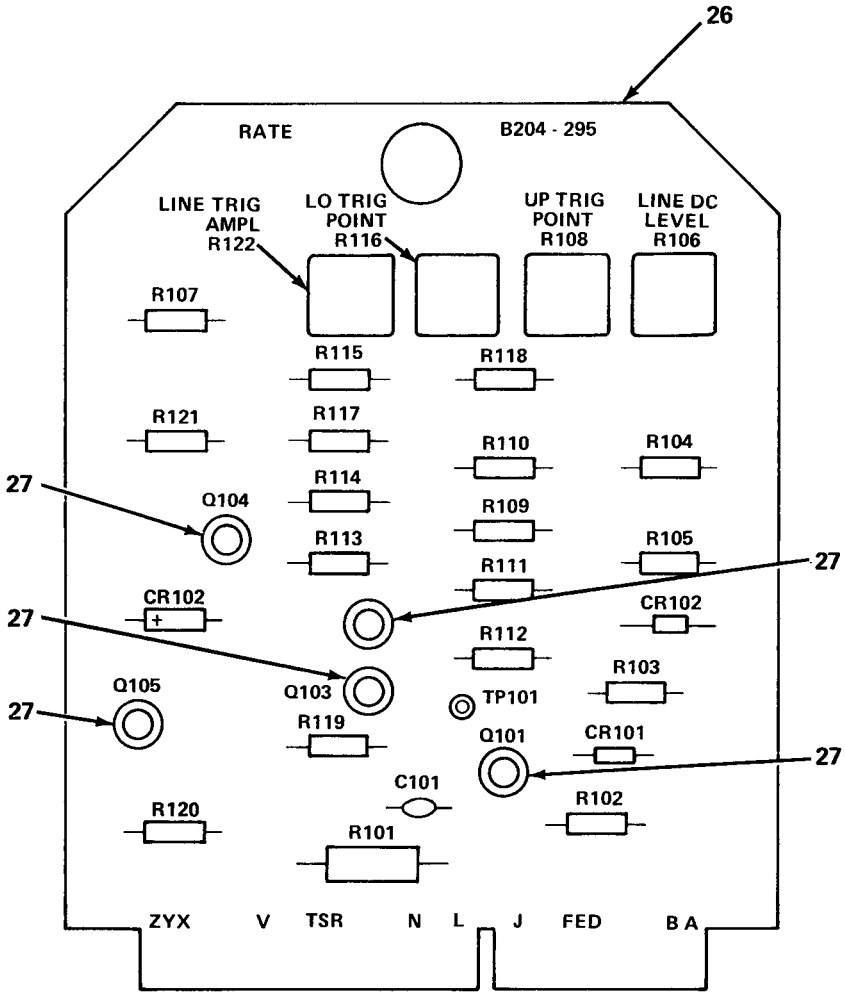


Figure C-2. Dustcover Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 01 DUST COVER SUBASSEMBLY			
C-2	1	XDOZZ		C211-049	23042	DUST COVER		EA	2
C-2	2	XDOZZ		A028-031	94222	FASTENER, 1/4 TURN		EA	12
C-2	3	XDOZZ		028-032	94222	FASTENER, CLIP RING		EA	12



LEGEND

REF DES	ITEM NO.	REF DES	ITEM NO.
C101	1	R108	13
C102	2	R109	12
CR101	3	R110	14
CR102	4	R111	7
Q101	5	R112	15
Q102	5	R113	16
Q103	5	R114	17
Q104	5	R115	18
Q105	5	R116	19
R101	6	R117	20
R102	7	R118	21
R103	8	R119	22
R104	9	R120	23
R105	10	R121	24
R106	11	R122	13
R107	12	TP101	25

Figure C-3.

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 02 SWEEP RATE SUBASSEMBLY		
C-3	1	XDFZZ		CW60AW102M	81349	CAPACITOR, FIXED	EA	1
C-3	2	XDFZZ		1500224X9050 A2		CAPACITOR, FIXED	EA	1
C-3	3	PAFZZ	5961-00-752-6121	JAN1N753A	81349	DIODE,ZENER,6-2V,1N753A	EA	1
C-3	4	PAFZZ	5961-00-957-6865	JAN1N3611	81349	DIODE,1N3611	EA	1
C-3	5	XDFZZ		JAN718A	81349	TRANSISTOR 2N718A	EA	5
C-3	6	PAFZZ	5905-00-246-9399	RCR32G202JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	7	PAFZZ	5905-00-141-0591	RCR20G103JS	81349	RESISTOR,DIXED,COMPOSITION	EA	2
C-3	8	PAFZZ	5905-00-114-5393	RCR20G224JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	9	PAFZZ	5905-00-104-8346	RCR20G334JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	10	PAFZZ	5905-00-141-1073	RCR20G564JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	11	PAFZZ	5905-00-066-6051	RJR24CP105P	81349	RESISTOR,VARIABLE	EA	1
C-3	12	PAFZZ	5905-00-104-8336	RCR20G104JS	81349	RESISTOR,FIXED,COMPOSITION	EA	2
C-3	13	XDFZZ		RT22CP503	81349	RESISTOR,VARIABLE	EA	2
C-3	14	PAFZZ	5905-00-111-4738	RCR20G152JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	15	PAFZZ	5905-00-141-0596	RCR20G473JS	81349	RESISTOR,FIXED,COMPOSTION	EA	1
C-3	16	PAFZZ	5905-00-104-8330	RCR20G333JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	17	PAFZZ	5905-00-106-9345	RCR20G683JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	18	PAFZZ	5905-00-110-0196	RCR20G102JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	19	PAFZZ	5905-00-558-6770	M39015/2-005PR	81349	RESISTOR,VARIABLE	EA	1
C-3	20	PAFZZ	5905-00-114-5441	RCR20G563JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	21	PAFZZ	5905-00-141-1116	RCR20G562JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	22	PAFZZ	5905-00-106-1282	RCR20G223JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	23	PAFZZ	5905-00-141-0592	RCR20G122JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	24	PAFZZ	5905-00-141-0600	RCR20G822JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-3	25	XDFZZ		059-015	801120	TERMINAL,LARGE HOLLOW	EA	1

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-3	26	XAFDD		B208-071	23042	SWEEP RATE PRINTED CIRCUIT BOARD	EA	1
C-3	27	XDFZZ		055-120	13103	SPACER,TRANSISTOR	EA	5

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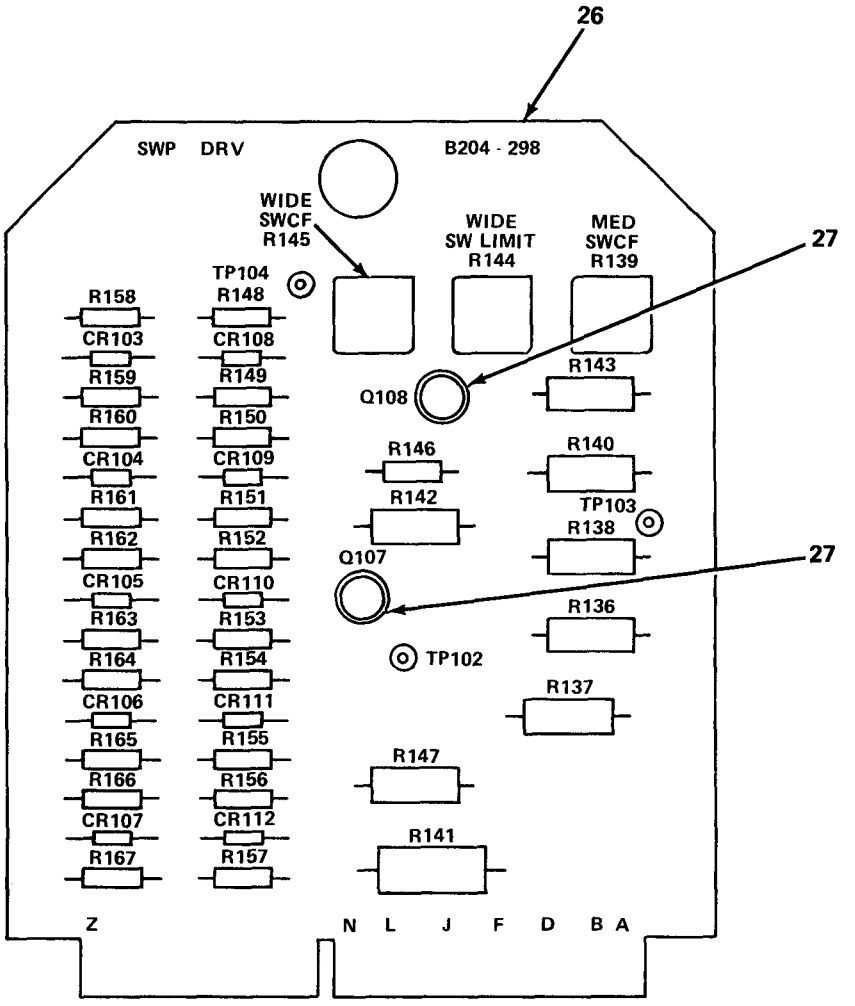

LEGEND

REF DES	ITEM NO.	REF DES	ITEM NO.
CR103	1	R148	15
CR104	1	R149	15
CR105	1	R150	15
CR106	1	R151	15
CR107	1	R152	15
CR108	1	R153	15
CR109	1	R154	15
CR110	1	R155	15
CR111	1	R156	15
CR112	1	R157	15
Q107	2	R158	16
Q108	2	R159	17
R136	3	R160	18
R137	4	R161	19
R138	5	R162	20
R139	6	R163	21
R140	7	R164	22
R141	8	R165	23
R142	9	R166	24
R143	10	R167	15
R144	11	TP102	25
R145	12	TP103	25
R146	13	TP104	25
R147	14		

Figure C-4. Sweep Drive Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 03 SWEEP DRIVE SUBASSEMBLY		
C-4	1	PAFZZ	5961-00-866-0476	1N457	81349	DIODE 1N457	EA	10
C-4	2	PAFZZ	5961-00-726-7836	JAN2N3440	81349	TRANSISTOR 2N3440	EA	2
C-4	3	PAFZZ	5905-00-247-8728	RCR32G392JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	4	PAFZZ	5905-00-104-8353	RCR32G472JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	5	PAFZZ	5905-00-454-2873	RCR32G163JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	6	PAFZZ	5905-00-558-6770	M39015/2-005PR	81349	RESISTOR,VARIABLE	EA	1
C-4	7	PAFZZ	5905-00-106-1245	RCR32G272JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	8	PAFZZ	5905-00-154-0068	RCR42G683JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	9	PAFZZ	5905-00-369-6916	RCR32G132JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	10	PAFZZ	5905-00-121-9861	RCR32G102JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	11	PAFZZ	5905-01-011-7614	M39015/2-006PR	81349	RESISTOR,VARIABLE	EA	1
C-4	12	PAFZZ	5905-00-422-4773	M39015/2-004PR	81349	RESISTOR,VARIABLE	EA	1
C-4	13	PAFZZ	5905-00-141-0595	RC20GF472J	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	14	PAFZZ	5905-00-247-8715	RCR32G224JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	15	PAFZZ	5905-00-141-1073	RCR20G564JS	81349	RESISTOR,FIXED,COMPOSITION	EA	11
C-4	16	PAFZZ	5905-00-106-1282	RCR20G223JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	17	PAFZZ	5905-00-106-9351	RCR20G273JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	18	PAFZZ	5905-00-104-8330	RCR20G333JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	19	PAFZZ	5905-00-141-0596	RCR20G473JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	20	PAFZZ	5905-00-114-5441	RCR20G563JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	21	PAFZZ	5905-00-114-5489	RCR20G823JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	22	PAFZZ	5905-00-104-8335	RCR20G124JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	23	PAFZZ	5905-00-104-8333	RCR20G184JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-4	24	PAFZZ	5905-00-104-8346	RCR20G334JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-4	25	XDFZZ		059-015	80112	TERMINAL,LARGE HOLLOW	EA	3
C-4	26	XAFDD		B208-074	23042	SWEEP DRIVE,PRINTED CIRCUIT BOARD	EA	1
C-4	27	XDFZZ		055-121	13103	SPACER,TRANSISTOR	EA	2

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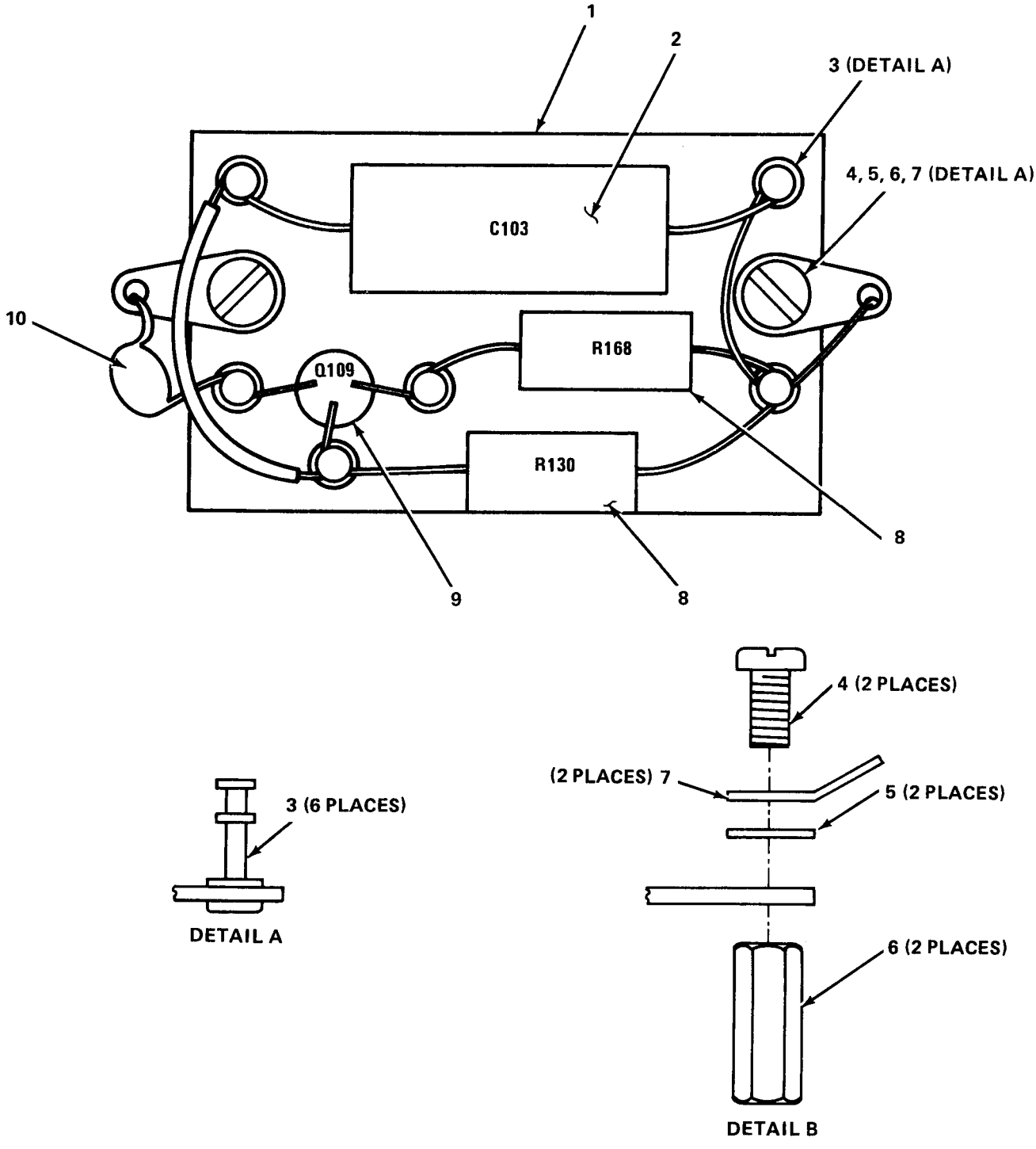
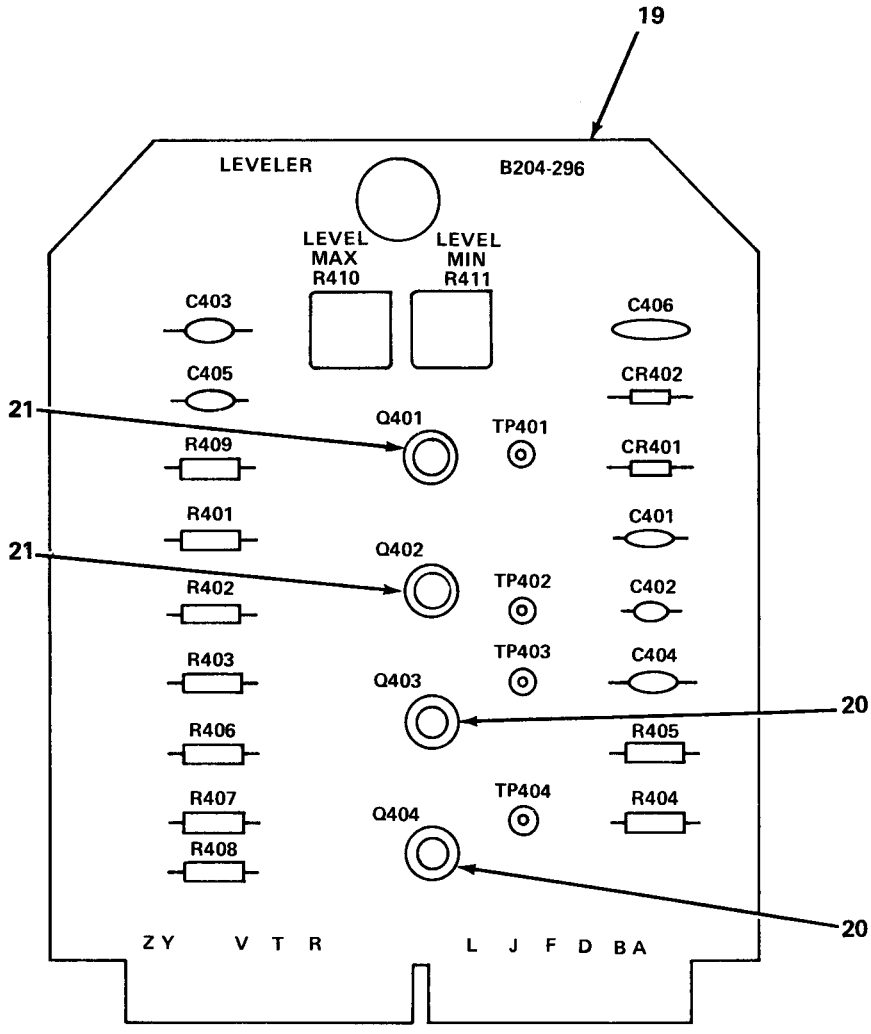


Figure C-5. Fine Tuning Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 04 FINE TUNING SUBASSEMBLY			
C-5	1	XAFDD		B204-357	23042	BOARD SUBASSEMBLY		EA	1
C-5	2	XDFZZ		012-184	56289	CAPACITOR,FIXED		EA	1
C-5	3	XAFZZ				TERMINAL TURRET		EA	6
C-5	4	PAFZZ	5305-00-054-6650	MS351957-26	96906	SCREW,PAN HEAD #6-32X1/4		EA	2
C-5	5	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER #6 FLAT		EA	2
C-5	6	XDFZZ		055-013	73734	SPACER,HEX #6-32X1/4		EA	2
C-5	7	XDFZZ		059-006	73734	TERMINAL,LOCKING GROUND		EA	2
C-5	8	PAFZZ	5905-00-138-4927	RC442G102JS	81349	RESISTOR,FIXED,COMPOSITION		EA	2
C-5	9	PAFZZ	5961-00-726-7836	JAN2N3440	81349	TRANSISTOR 2N3440		EA	1
C-5	10	XDFZZ		A012-114	23042	CAPACITOR,FIXED		EA	1



LEGEND

REF DES	ITEM NO.	REF DES	ITEM NO.
C401	1	R403	12
C402	2	R404	13
C403	3	R405	14
C404	4	R406	15
C405	4	R407	15
C406	5	R408	12
CR401	6	R409	14
CR402	6	R410	16
Q401	7	R411	17
Q402	8	TP401	18
Q403	9	TP402	18
Q404	9	TP403	18
R401	10	TP404	18
R402	11		

Figure C-6. Leveler Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 05 LEVELER SUBASSEMBLY		
C-6	1	PAFZZ	5910-00-892-7334	CK61AW222M	81349	CAPACITOR,FIXED	EA	1
C-6	2	PAFZZ	5910-00-838-9421	CK60AW102M	81349	CAPACITOR,FIXED	EA	1
C-6	3	PAFZZ	5910-00-821-5215	CK60AX471K	81349	CAPACITOR,FIXED	EA	1
C-6	4	PAFZZ	5910-00-924-4231	TAO1UFPORM 20PCT	91418	CAPACITOR,FIXED	EA	2
C-6	5	XDFZZ		A012-114	23042	CAPACITOR,FIXED	EA	1
C-6	6	PAFZZ	5961-00-866-0476	1N457	81349	DIODE 1N457	EA	2
C-6	7	PAFZZ	5961-00-726-7836	JAN2N3440	81349	TRANSISTOR 2N3440	EA	1
C-6	8	PAFZZ	5961-00-949-1440	JAN2N2905A	81349	TRANSISTOR 2N2905	EA	1
C-6	9	XDFZZ		JAN718A	81349	TRANSISTOR 2N718A	EA	2
C-6	10	PAFZZ	5905-00-111-8357	RCR20G681JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-6	11	PAFZZ	5905-00-104-8330	RCR20G333JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-6	12	PAFZZ	5905-00-141-0600	RCR20G822JS	81349	RESISTOR,FIXED,COMPOSITION	EA	2
C-6	13	PAFZZ	5905-00-141-1116	RCR20G562JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-6	14	PAFZZ	5905-00-106-1282	RCR20G223JS	81349	RESISTOR,FIXED,COMPOSITION	EA	2
C-6	15	PAFZZ	5905-00-141-0595	RCR20G472JS	81349	RESISTOR,FIXED,COMPOSITION	EA	2
C-6	16	PAFZZ	5905-01-011-7614	M39015/2-006PR	81349	RESISTOR,VARIABLE	EA	1
C-6	17	XDFZZ		RT22C2P50	81349	RESISTOR,VARIABLE	EA	1
C-6	18	XDFZZ		059-015	23042	TERMINAL, LARGE HOLLOW	EA	4
C-6	19	XAFDD		B208-072	23042	LEVELER,PRINTED CIRCUIT BOARD	EA	1
C-6	20	XDFZZ		055-120	23042	SPACER,TRANSISTOR	EA	2
C-6	21	XDFZZ		055-121	23042	SPACER,TRANSISTOR	EA	2

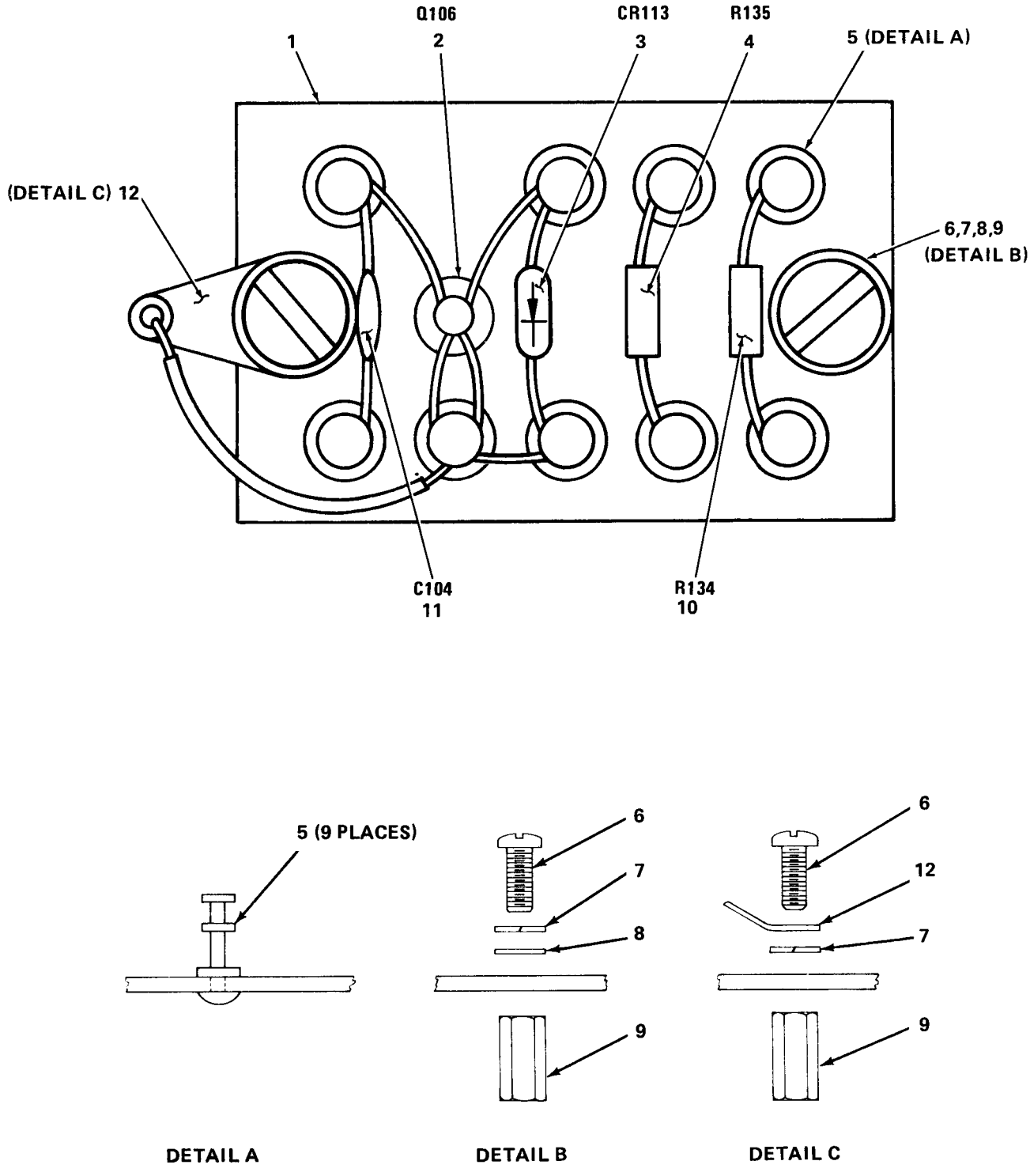
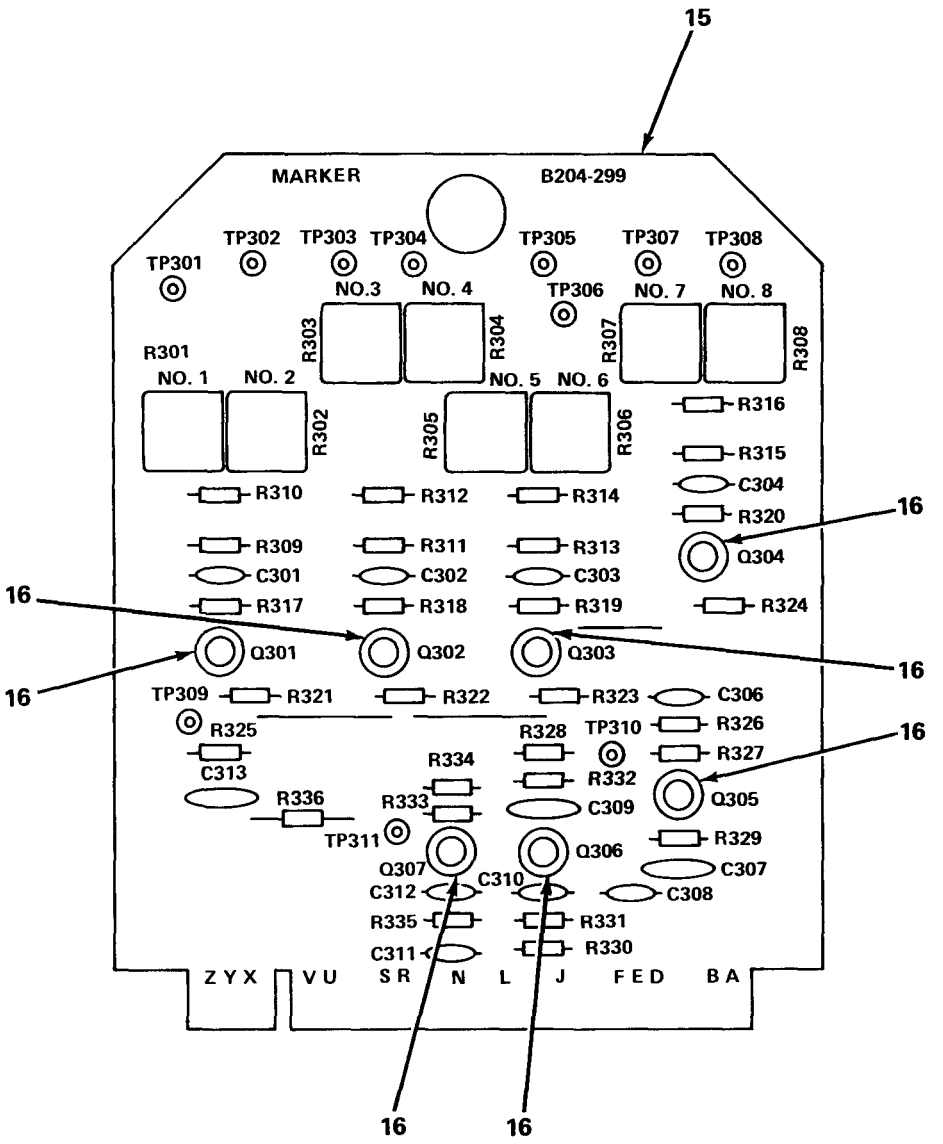


Figure C-7. Vertical Blanking Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 06 VERTICAL BLANK-ING SUBASSEMBLY		
C-7	1	XAFDD		B204-356	23042	BOARD SUBASSEMBLY	EA	1
C-7	2	PAFZZ	5961-00-456-9025	F1152	05397	TRANSISTOR F1152	EA	1
C-7	3	PAFZZ	5961-00-811-8373	JAN1N3287	81349	DIODE 1N3287	EA	1
C-7	4	PAFZZ	5905-00-252-1671	RCR07G225JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-7	5	XAFZZ				TERMINAL,TURRET	EA	9
C-7	6	PAFZZ	5305-00-054-6650	MS351957-26	96906	SCREW,PAN HEAD, #6-32X1/4	EA	2
C-7	7	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,SPLIT LOCK,#6	EA	2
C-7	8	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,#6FLAT	EA	2
C-7	9	XDFZZ		055-022	23042	SPACER,HEX,#6-32X1/2	EA	2
C-7	10	PAFZZ	5905-00-116-8554	RCR07G105JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-7	11	PAFZZ	5910-00-822-3767	CK60BX151K	81349	CAPACITOR,FIXED	EA	1
C-7	12	PAFZZ	5940-00-513-3264	MS77070-2	96906	TERMINAL,LOCKING GROUND #6	EA	1

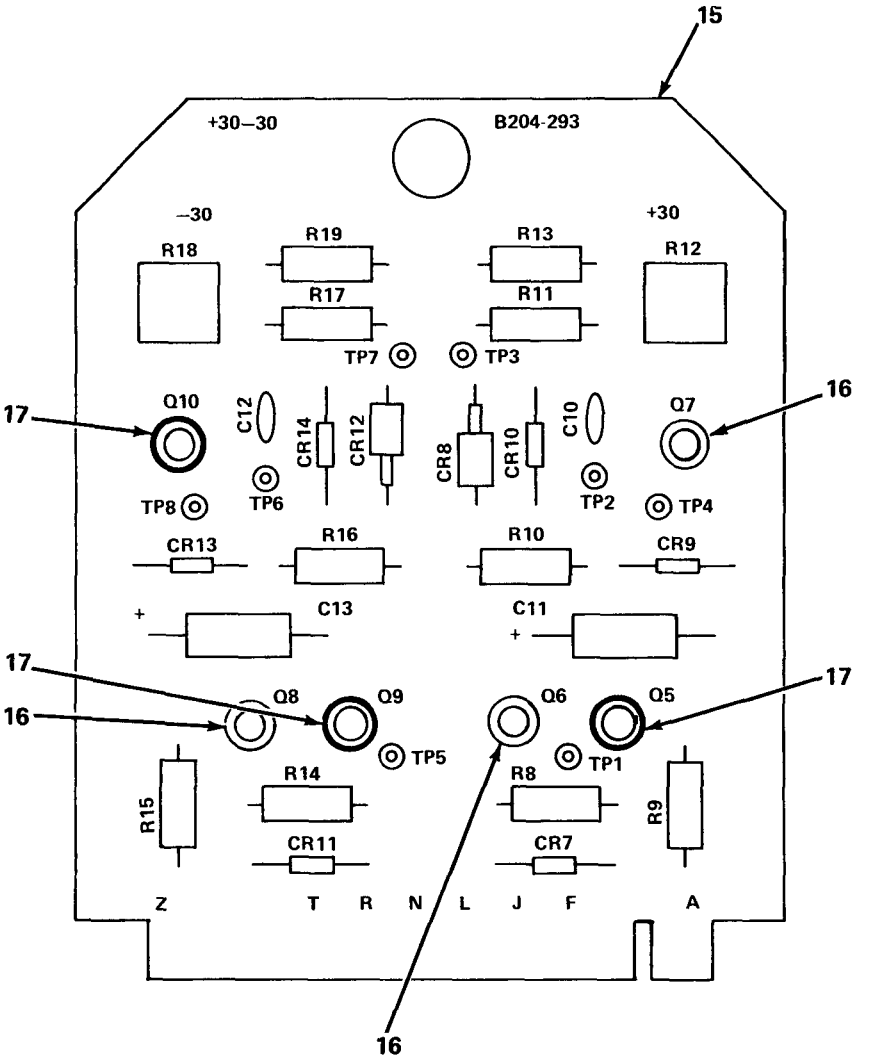


LEGEND

REF DES	ITEM NO.	REF DES	ITEM NO.
C301	1	R315	5
C302	1	R316	5
C303	1	R317	6
C304	1	R318	6
C306	1	R319	6
C307	2	R320	6
C308	1	R321	7
C309	2	R322	7
C310	1	R323	7
C311	1	R324	7
C312	1	R325	8
C313	2	R326	9
Q301	3	R327	6
Q302	3	R328	10
Q303	3	R329	11
Q304	3	R330	9
Q305	3	R331	6
Q306	3	R332	12
Q307	3	R333	13
R301	4	R334	8
R302	4	R335	12
R303	4	R336	7
R304	4	TP301	14
R305	4	TP302	14
R306	4	TP303	14
R307	4	TP304	14
R308	4	TP305	14
R309	5	TP306	14
R310	5	TP307	14
R311	5	TP308	14
R312	5	TP309	14
R313	5	TP310	14
R314	5	TP311	14

Figure C-8. Marker Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 07 MARKER SUBASSEMBLY			
C-8	1	PAFZZ	5910-00-924-4231	TAOUFPORM 20 PCT	91418	CAPACITOR,FIXED		EA	9
C-8	2	XDFZZ		A012-114	23042	CAPACITOR,FIXED		EA	3
C-8	3	PAFZZ	5961-00-787-5305	JAN2N718A	81349	TRANSISTOR 2N718A		EA	7
C-8	4	PAFZZ	5905-01-033-8420	M39015-2-007PR	81349	RESISTOR VARIABLE		EA	8
C-8	5	PAFZZ	5905-00-110-7620	RCR07G102JS	81349	RESISTOR,FIXED,COMPOSITION		EA	8
C-8	6	PAFZZ	5905-00-105-7765	RCR07G224JS	81349	RESISTOR,FIXED,COMPOSITION		EA	6
C-8	7	PAFZZ	5905-00-141-1183	RCR07G101JS	81349	RESISTOR,FIXED,COMPOSITION		EA	5
C-8	8	PAFZZ	5905-00-106-3666	RCR07G103JS	81349	RESISTOR,FIXED,COMPOSITION		EA	2
C-8	9	PAFZZ	5905-00-119-3503	RCR07G271JS	81349	RESISTOR,FIXED,COMPOSITION		EA	2
C-8	10	PAFZZ	5905-00-114-0711	RCR07G472JS	81349	RESISTOR,FIXED,COMPOSITION		EA	1
C-8	11	PAFZZ	5905-00-114-0710	RCR07G331JS	81349	RESISTOR,FIXED,COMPOSITION		EA	1
C-8	12	PAFZZ	5905-00-135-3973	RCR07G221JS	81349	RESISTOR,FIXED,COMPOSITION		EA	2
C-8	13	PAFZZ	5905-00-116-8554	RCR07G105JS	81349	RESISTOR,FIXED,COMPOSITION		EA	1
C-8	14	XDFZZ		059-015	23042	TERMINAL, LARGE HOLLOW		EA	11
C-8	15	XAFDD		B208-075	23042	MARKER,PRINTED,CIRCUIT BOARD		EA	1
C-8	16	XDFZZ		055-120	23042	SPACER,TRANSISTOR		EA	7

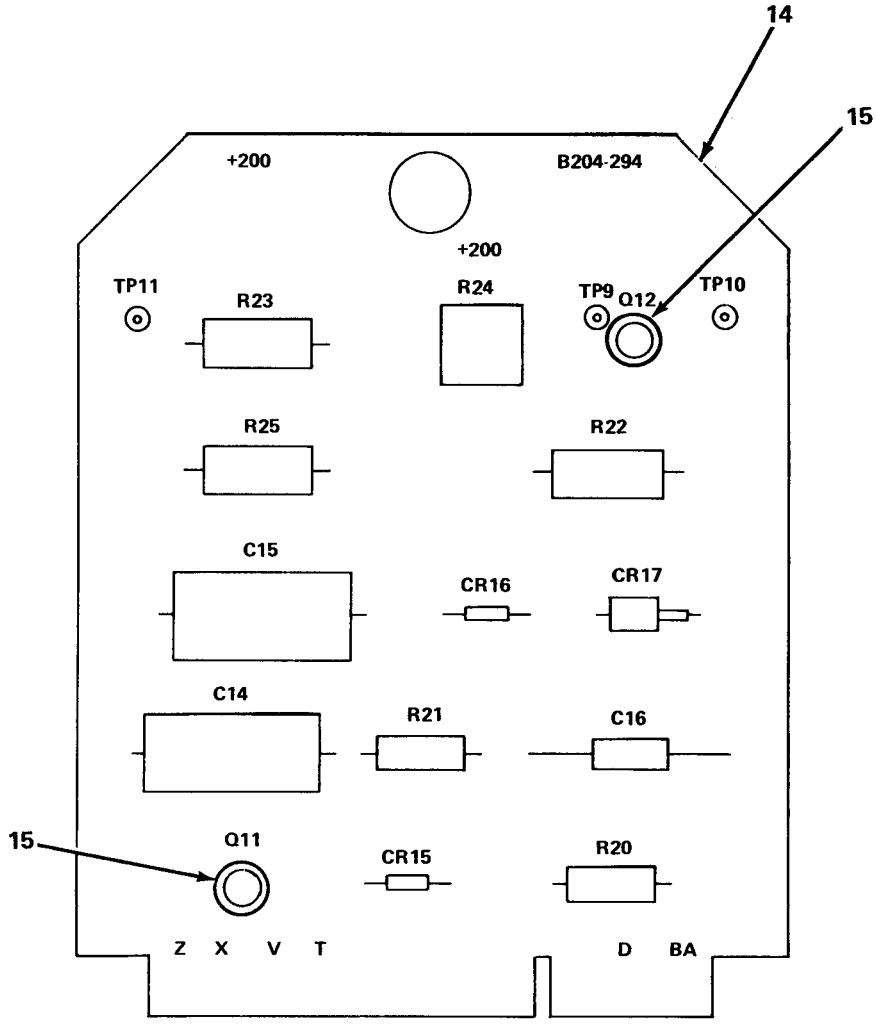


LEGEND

REF DES	ITEM NO.	REF DES	ITEM NO.
C10	1	R9	10
C11	2	R10	11
C12	1	R11	10
C13	2	R12	12
CR7	3	R13	13
CR8	4	R14	9
CR9	5	R15	10
CR10	6	R16	11
CR11	3	R17	10
CR12	4	R18	12
CR13	5	R19	13
CR14	6	TP1	14
Q5	7	TP2	14
Q6	8	TP3	14
Q7	8	TP4	14
Q8	8	TP5	14
Q9	7	TP6	14
Q10	7	TP7	14
R8	9	TP8	14

Figure C-9. +30 -30 Vdc Supply Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 08+30-30 VDC SUPPLY SUBASSEMBLY		
C-9	1	XDFZZ				CAPACITOR (FACTORY SELECTED VALUE)	EA	2
C-9	2	PAFZZ	5910-00-412-9235	MS9003/01-2981	81349	CAPACITOR,FIXED	EA	2
C-9	3	PAFZZ	5961-00-995-2310	JAN1N752A	81349	DIODE,ZENER 1N752A	EA	2
C-9	4	PAFZZ	5961-00-883-8906	JAN1N3016B	81349	DIODE,ZENER 1N3016B	EA	2
C-9	5	PAFZZ	5961-00-852-7549	JAN1N754A	81349	DIODE,ZENER 1N754A	EA	2
C-9	6	PAFZZ	5961-00-866-0476	1N457	81349	DIODE 1N457	EA	2
C-9	7	PAFZZ	5961-00-949-1440	JAN2N2905	81349	TRANSISTOR 2N2905	EA	3
C-9	8	PAFZZ	5961-00-787-5305	JAN2N718A	81349	TRANSISTOR 2N718A	EA	3
C-9	9	PAFZZ	5905-00-111-8372	RCR32G222JS	81349	RESISTOR,FIXED,COMPOSITION	EA	2
C-9	10	PAFZZ	5905-00-247-8733	RCR32G562JS	81349	RESISTOR,FIXED,COMPOSITION	EA	4
C-9	11	PAFZZ	5905-00-244-8258	RCR32G332JS	81349	RESISTOR,FIXED,COMPOSITION	EA	2
C-9	12	PAFZZ	5905-00-422-4773	M39015/2-004PR	81349	RESISTOR,VARIABLE	EA	2
C-9	13	PAFZZ	5905-00-106-1246	RCR32G152JS	81349	RESISTOR,FIXED,COMPOSITION	EA	2
C-9	14	XDFZZ		059-015	23042	TERMINAL,LARGE HOLLOW	EA	8
C-9	15	XAFDD		B208-069	23042	+30-30 VDC SUPPLY PRINTED CIRCUIT BOARD	EA	1
C-9	16	XDFZZ		055-120	23042	SPACER,TRANSISTOR	EA	3
C-9	17	XDFZZ		055-121	23042	SPACER,TRANSISTOR	EA	3



LEGEND

REF DES	ITEM NO.	REF DES	ITEM NO.
C14	1	R21	9
C15	2	R22	10
C16	3	R23	11
CR15	4	R24	12
CR16	5	R25	10
CR17	6	TP9	13
Q11	7	TP10	13
Q12	7	TP11	13
R20	8		

Figure C-10. +200 Vdc Supply Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 09+200 VDC SUPPLY SUBASSEMBLY			
C-10	1	XDFZZ		012-179	23042	CAPACITOR,FIXED		EA	1
C-10	2	XDFZZ		012-180	23042	CAPACITOR,FIXED		EA	1
C-10	3	XDFZZ		012-181	23042	CAPACITOR,FIXED		EA	1
C-10	4	PAFZZ	5961-00-842-9609	JAN1N966B	81349	DIODE,ZENER 1N966B		EA	1
C-10	5	PAFZZ	5961-00-866-0476	1N457	81349	DIODE 1N457		EA	1
C-10	6	PAFZZ		JAN2N3042B	81349	DIODE,ZENER 1N3042B		EA	1
C-10	7	PAFZZ	5961-00-726-7836	JAN2N3440	81349	TRANSISTOR 2N3440		EA	2
C-10	8	PAFZZ	5905-00-136-8338	RCR32G183JS	81349	RESISTOR,FIXED,COMPOSITION		EA	1
C-10	9	PAFZZ	5905-00-369-6923	RCR32G223JS	81349	RESISTOR,FIXED,COMPOSITION		EA	1
C-10	10	PAFZZ	5905-00-874-1047	RCR42G473JS	81349	RESISTOR,FIXED,COMPOSITION		EA	2
C-10	11	PAFZZ	5905-00-154-0068	RCR42G683JS	81349	RESISTOR,FIXED,COMPOSITION		EA	1
C-10	12	PAFZZ	5905-01-033-8430	M39015-2-	81349 007PR	RESISTOR,VARIABLE		EA	1
C-10	13	XDFZZ		059-015	23042	TERMINAL,LARGE HOLLOW		EA	3
C-10	14	XAFDD		B208-070	23042	+200 VDC SUPPLY PRINTED CIRCUIT BOARD		EA	1
C-10	15	XDFZZ		055-121	23042	SPACER,TRANSISTOR		EA	2

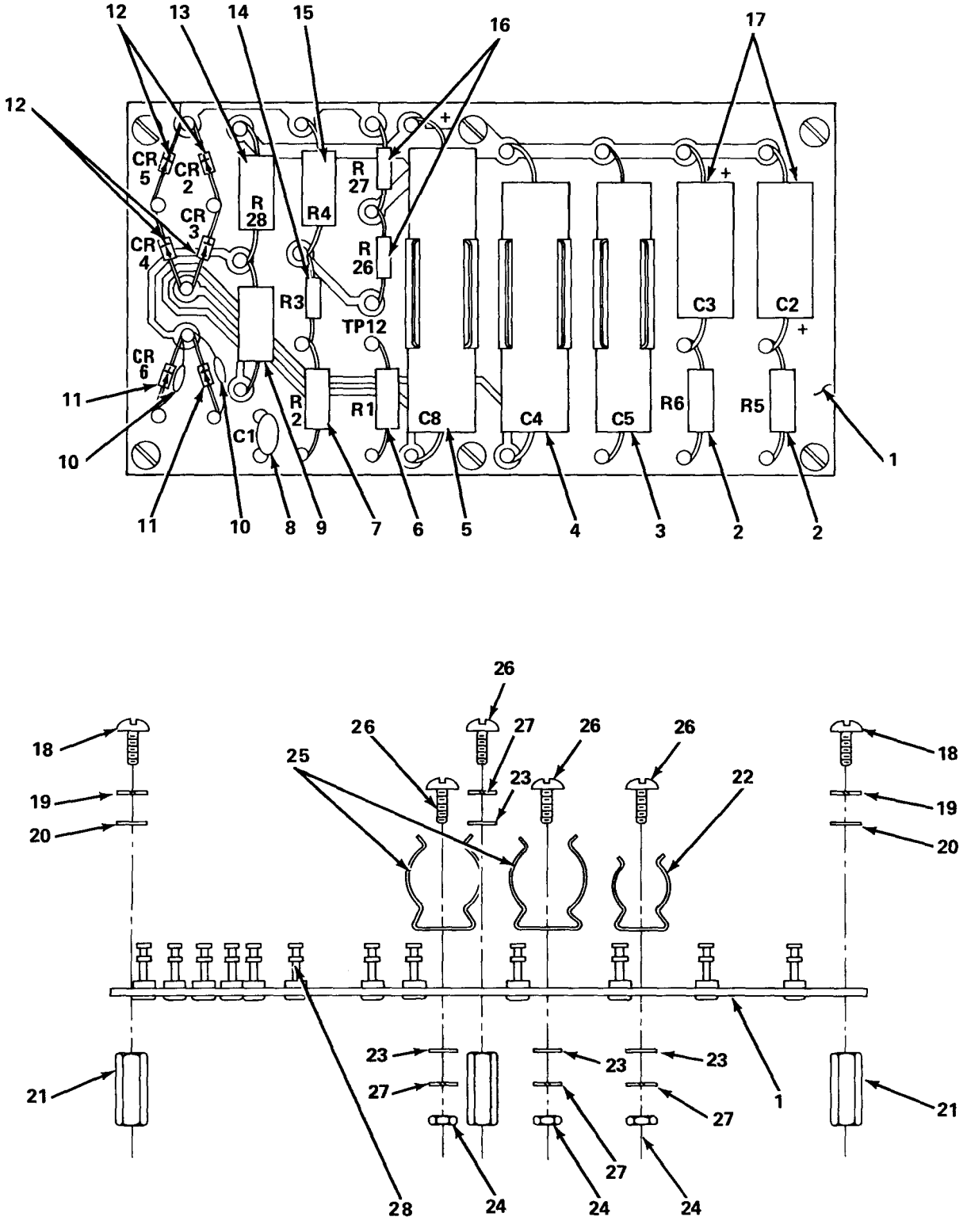


Figure C-11. Primary Power Supply Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 10 PRIMARY SUPPLY SUBASSEMBLY		
C-11	1	XAFDD		B204-335	23042	BOARD SUBASSEMBLY	EA	1
C-11	2	PAFZZ	5905-00-113-7346	RCR32G470JS	81349	RESISTOR,FIXED,COMPOSITION	EA	2
C-11	3	XDFZZ		012-187	23042	CAPACITOR,20UF,250 VDC	EA	1
C-11	4	XDFZZ		012-186	23042	CAPACITOR,20UF,350 VDC	EA	1
C-11	5	XDFZZ		012-185	23042	CAPACITOR,100UF,150 VDC	EA	1
C-11	6	PAFZZ	5905-00-131-1256	RCR32G820JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-11	7	PAFZZ	5905-00-104-8352	RCR32G153JS	81349	RESISTOR,FIXED,COMPOSITON	EA	1
C-11	8	PAFZZ	5910-00-924-4231	TAO1UFPORM 20PCT	91418	CAPACITOR,01UF	EA	1
C-11	9	PAFZZ	5905-00-155-0081	RCR42G272JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-11	10	PAFZZ	5961-00-059-2904	JAN1N3613	81349	DIODE 1N3613	EA	2
C-11	11	PAFZZ	5910-00-143-0501	M39014/02-1332	81349	CAPACITOR,5000 PF	EA	2
C-11	12	PAFZZ	5961-00-957-6865	JAN1N3611	81349	DIODE 1N3611	EA	4
C-11	13	PAFZZ	5905-00-759-8896	RCR42G104JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-11	14	PAFZZ	5905-00-935-8543	RCR20G330JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-11	15		5905-00-472-3470	RCR42G121JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-11	16	PAFZZ	5905-00-141-0591	RCR20G103JS	81349	RESISTOR,FIXED,COMPOSITION	EA	2
C-11	17	PAFZZ	5910-00-034-5603	39D107F150FP4	56289	CAPACITOR,50UF 5 VDC	EA	2
C-11	18	PAFZZ	5305-00-054-6652	MS351957-28	96906	SCREW,#6-32X 3/8 PAN HEAD	EA	6
C-11	19	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,SPLIT LOCK,#6	EA	6
C-11	20	XDFZZ		050-294	23042	WASHER,FLAT #5	EA	6
C-11	21	XDFZZ		055-022	23042	SPACER,HEX,#6-32X 1/2	EA	6
C-11	22	XDFZZ		017-024	23042	CLAMP,CAPACITOR	EA	1
C-11	23	XDFZZ		050-282	23042	WASHER,FLAT, #4	EA	6
C-11	24	PAFZZ	5310-00-934-9748	MS35649-244	96906	NUT,HEX, #4	EA	6

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-11	25	XDFZZ		017-023	23042	CLAMP,CAPACITOR	EA	2
C-11	26	PAFZZ	5305-00-054-5648	MS351957-14	96906	SCREW,#4-40X 5/16 PAN HEAD	EA	6
C-11	27	PAFZZ	5310-00-933-8118	MS35338-135	96906	WASHER,SPLIT LOCK #4	EA	6
C-11	28	XAFZZ		059-018	23042	TERMINAL,TURRET	EA	33

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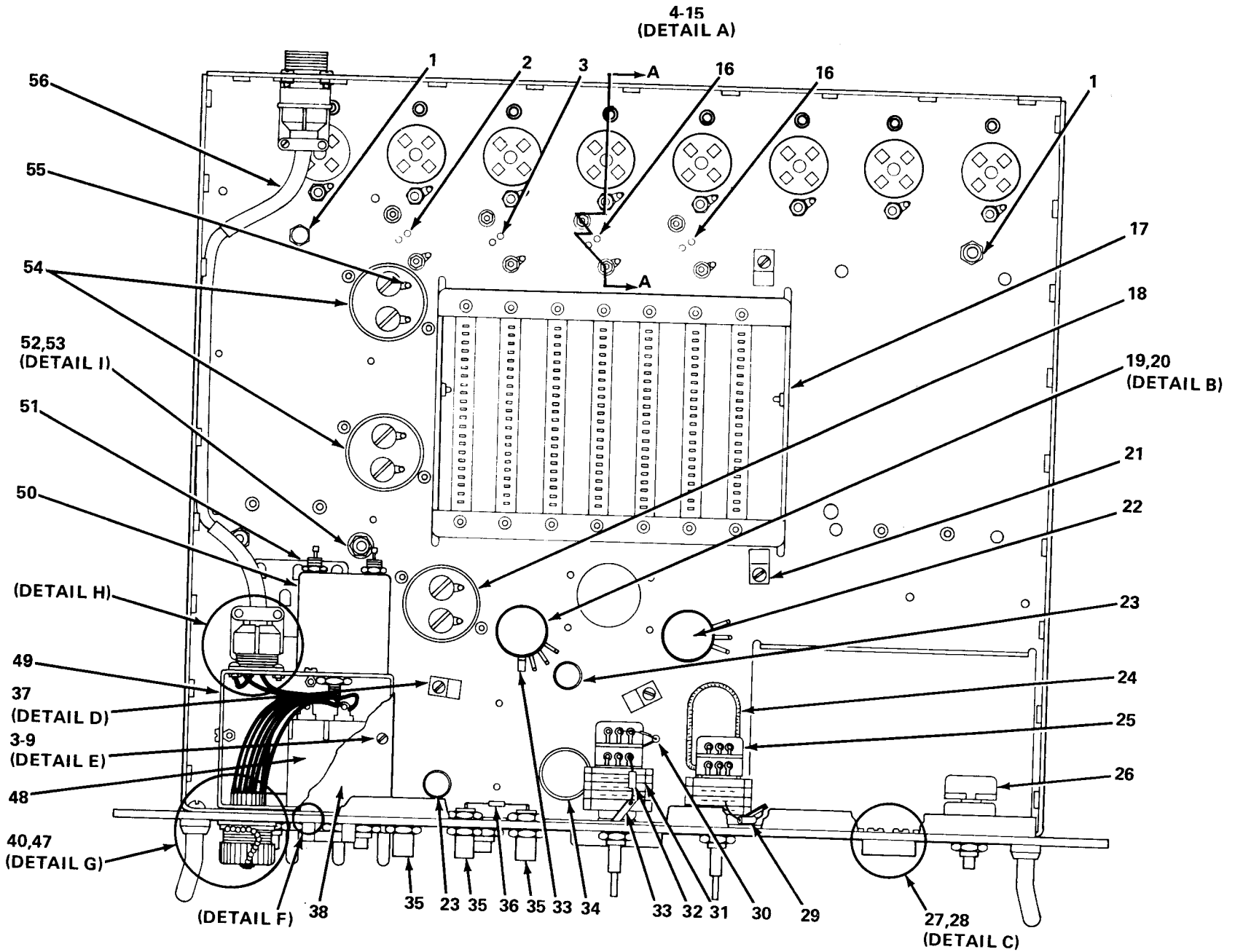

Figure C-12. Main Chassis Subassembly (Sheet 1 of 3)

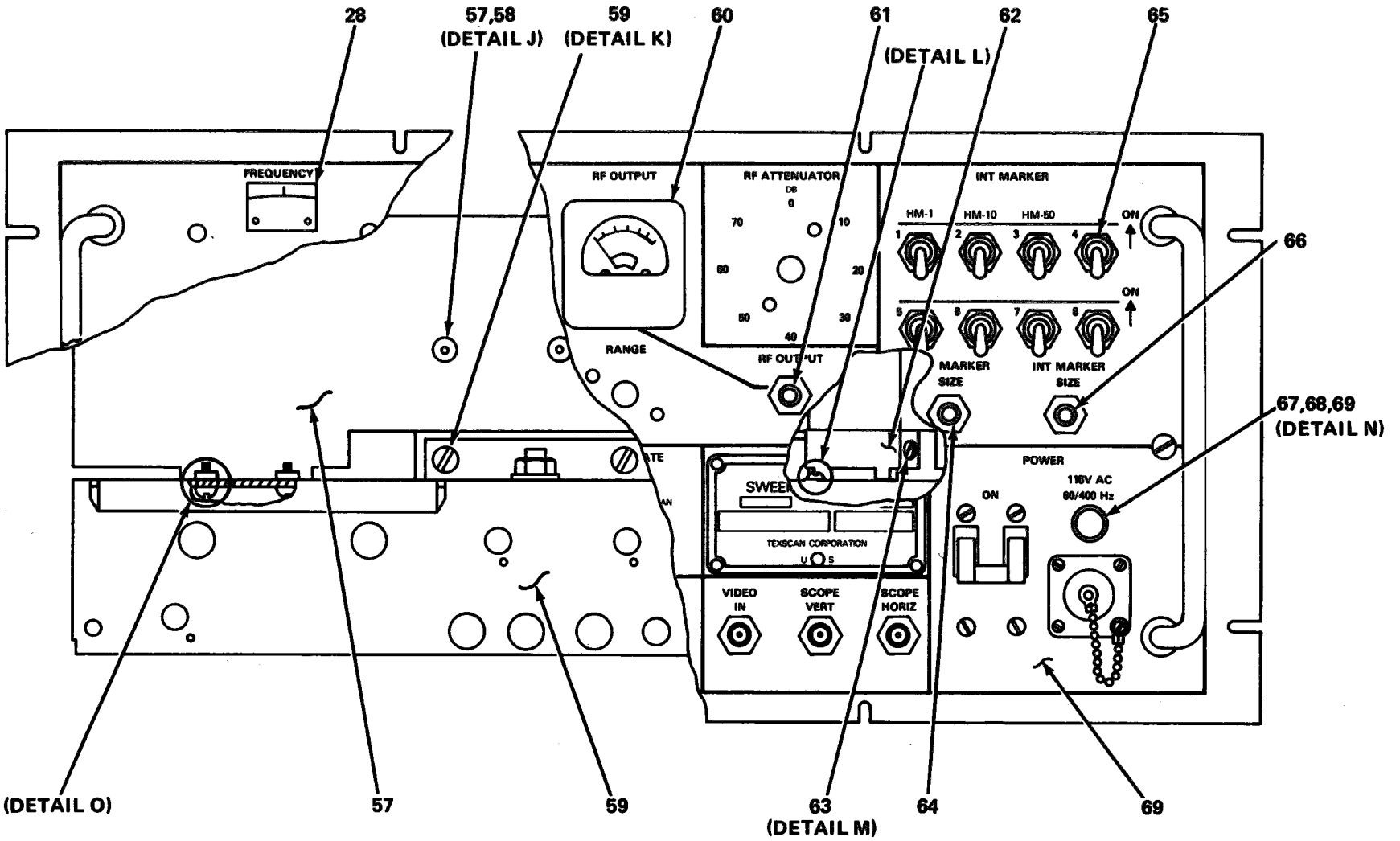

Figure C-12. Main Chassis Subassembly (Sheet 2 of 3)

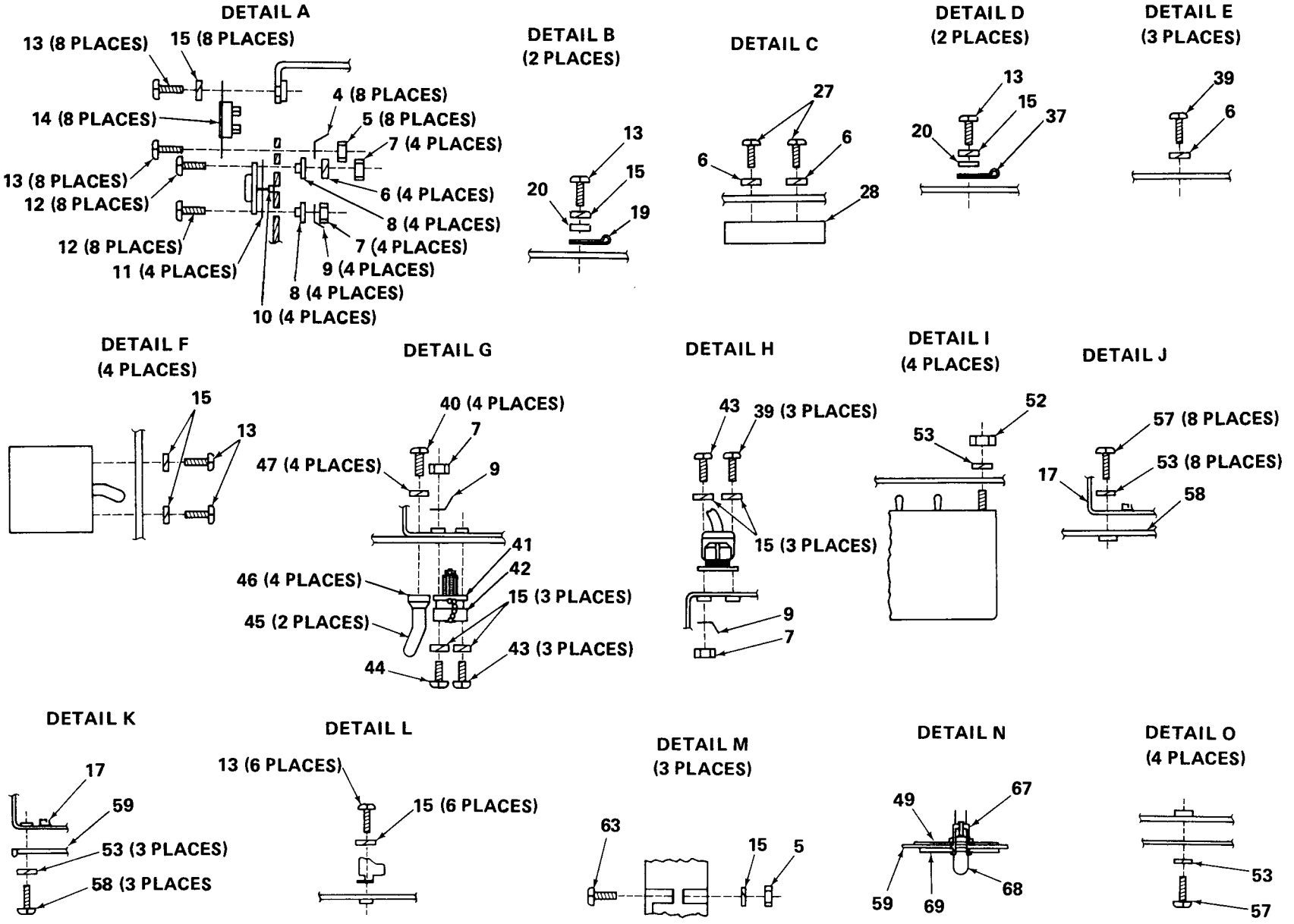

Figure C-12. Main Chassis Subassembly (Sheet 3 of 3)

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 11 MAIN CHASSIS SUBASSEMBLY		
C-12	1	XDFZZ		A200-00-01	23042	TERMINATION ASSEMBLY	EA	2
C-12	2	XDFZZ		JAN2N4900	81439	TRANSISTOR, 2N4900	EA	1
C-12	3	XDFZZ		JAN2N3054	81439	TRANSISTOR 2N3054	EA	1
C-12	4	PAFZZ	5940-00-513-3264	MS77070-2	96906	TERMINAL #6 GROUND LUG	EA	8
C-12	5	PAFZZ	5310-00-934-9761	MS35649-264	96906	NUT,HEX,#6-32	EA	8
C-12	6	PAFZZ	5310-00-933-8118	MS35338-135	96906	WASHER,SPLIT LOCK, #4	EA	9
C-12	7	PAFZZ	5310-00-934-9748	MS35649-244	96906	NUT,HEX,#4-40	EA	10
C-12	8	PAFZZ	3120-00-950-4504	N5111	08863	WASHER,NYLON,SPACER	EA	8
C-12	9	PAFZZ	5940-00-155-7688	502-4	79963	TERMINAL,#4 GROUND LUG	EA	6
C-12	10	XDFZZ		020-006	23042	INSULATOR,BUSHING	EA	8
C-12	11	XDFZZ		041-005	23042	INSULATION,MICA	EA	4
C-12	12	PAFZZ	5305-00-054-5649	MS351957-15	96906	SCREW #4-40X 3/8 PAN HEAD	EA	8
C-12	13	PAFZZ	5305-00-054-6652	MS351957-28	96906	SCREW #6-32X 3/8 PAN HEAD	EA	30
C-12	14	XDFZZ		042-023	23042	SCOKET,MARKER	EA	8
C-12	15	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,SPLIT LOCK,#6	EA	31
C-12	16	XDFZZ		JAN2N3738	81349	TRANSISTOR, 2N3738	EA	2
C-12	17	XDFDD		C204-328	23042	CHASSIS SUBASSEMBLY, PRINTED CIRCUIT BOARD	EA	1
C-12	18	XDFZZ		012-189	23042	CAPACITOR, 100^F. 350VDC	EA	1
C-12	19	XDFZZ		017-026	23042	CLAMP,CABLE,SMALL	EA	2
C-12	20	XDFZZ		MS15195-805	96906	WASHER,FLAT,#6	EA	4
C-12	21	XDFZZ		048-134	23042	RESISTOR,VARIABLE	EA	1
C-12	22	XDFZZ		048-135	23042	RESISTOR,VARIABLE	EA	1
C-12	23	PAFZZ	5325-00-237-8144	031-007	23042	GROMMET	EA	2
C-12	24	PAFZZ	5970-00-168-9409	GS3CT	06229	INSULATION,GROMMET, 4-3/4 LONG	EA	1

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-12	25	XDFZZ		A048-138	23042	RESISTOR,VARIABLE	EA	1
C-12	26	PAFZZ	5905-00-465-0143	43875C2-320	11237	RESISTOR,VARIABLE	EA	1
C-12	27	PAFZZ	5305-00-054-5647	MS351957-13	96906	SCREW,#4-40X 1/4 PAN HEAD	EA	2
C-12	28	XDFZZ		A209-070	23042	BRACKET,INDICATOR	EA	1
C-12	29	PAFZZ	5905-00-114-5319	RCR20G224JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-12	30	PAFZZ	5905-00-116-8555	RCR07G153JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-12	31	XDFZZ		A048-139	23042	RESISTOR,VARIABLE	EA	1
C-12	32	PAFZZ	5905-00-111-4742	RCR0G391JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-12	33	XDFZZ		059-004	23042	TERMINAL,#3/8 GROUND LUG	EA	2
C-12	34	PAFZZ	5325-00-234-5371	031-012	23042	GROMMET	EA	1
C-12	35	PAFZZ	5935-00-539-6932	5069	94375	CONNECTOR#5069	EA	3
C-12	36	PAFZZ	5905-00-141-0596	RCR20G473JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-12	37	XDFZZ		017-022	23042	CLAMP,CABLE,LARGE	EA	2
C-12	38			A211-052	23042	COVER,POWER	EA	1
C-12	39	PAFZZ	5305-00-054-5648	MS351957-14	96906	SCREW,#4-40X 5/16 PAN HEAD	EA	6
C-12	40	XDFZZ		050-264	23042	SCREW,#10-32X3/4 PAN HEAD	EA	4
C-12	41	XDFZZ		MS3102A145-	96906	CONNECTOR,POWER	EA	1
C-12	42	XAFZZ		MS9760-14	96906	CONNECTOR,CAP	EA	1
C-12	43	PAFZZ	5305-00-054-5651	MS351957-17	96906	SCREW #4-40X 1/2 PAN HEAD	EA	4
C-12	44	PAFZZ	5305-00-054-5652	MS351957-18	96906	SCREW #4-40X 5/8 PAN HEAD	EA	1
C-12	45	XAFZZ		032-006	23042	HANDLE	EA	2
C-12	46	XAFZZ		055-124	23042	SPACER,CUP	EA	4
C-12	47	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,SPLIT LOCK, #10	EA	4
C-12	48	PAFZZ	5925-00-572-3809	057-064	23042	SWITCHE,CIRCUIT BREAKER	EA	1
C-12	49			C204-340	23042	ENCLOSURE SUBASSEMBLY, POWER	EA	1
C-12	50	XDFZZ		B071-004	23042	FILTER	EA	1
C-12	51	PAFZZ	5950-00-457-7957	C061-016	23042	TRANSFORMER,POWER	EA	1

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-12	52	PAFZZ	5310-00-934-9759	MS35649-284	96906	NUT,HEX,#8-32	EA	4
C-12	53	PAFZZ	5310-00-933-8119	MS35338-137	96906	WASHER,SPLIT LOCK #8	EA	19
C-12	54	XDFZZ		012-190	23042	CAPACITOR, 275 ^F, 150 VDC	EA	2
C-12	55	XDFZZ		059-028	23042	TERMINAL,#10 GROUND LUG	EA	6
C-12	56	XDFZZ		B204-316	23042	POWER CORD SUBASSEMBLY	EA	1
C-12	57	PAFZZ	5305-00-054-6668	MS351957-43	96906	SCREW#8-32X 3/8 PAN HEAD	EA	15
C-12	58	XDDDD		C204-347	23042	BRACKET SUBASSEMBLY, CHASSIS	EA	1
C-12	59	XDDDD		D204-358	23042	MAIN CHASSIS SUBASSEMBLY	EA	1
C-12	60	PAFZZ	6625-00-443-6415	A043-005	23042	METER,RF OUTPUT	EA	1
C-12	61	XDFZZ		048-137	23042	RESISTOR,VARIABLE	EA	1
C-12	62	XDFZZ		220-019	23042	CLAMP.CAPACITOR	EA	3
C-12	63	PAFZZ	5305-00-054-6653	MS351957-29	96906	SCREW,#6-32X 7/16 PAN HEAD	EA	3
C-12	64	XDFZZ		048-136	23042	RESISTOR,VARIABLE	EA	1
C-12	65	PAFZZ	5930-00-655-1514	MS35058-22	81349	SWITCH,MARKER	EA	8
C-12	66	PAFZZ	5905-00-465-0142	438742-320	11237	RESISTOR,VARIABLE	EA	1
C-12	67	XDFZZ		011-005	23042	LIGHT,INDICATOR	EA	1
C-12	69	XDDDD		0218-034	23042	PANEL,FRONT	EA	1

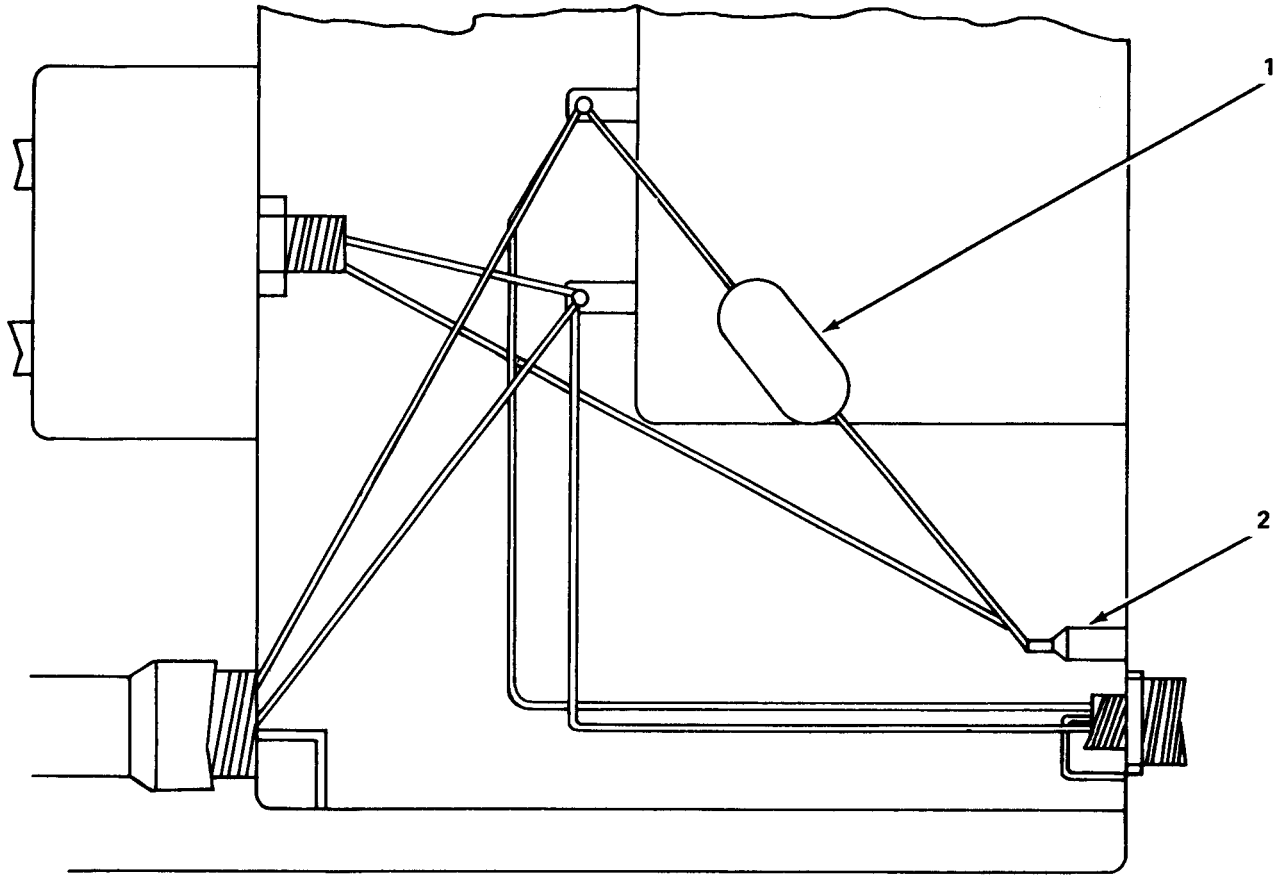

Figure C-13. Main Chassis Subassembly (Model B)

(1) ILLUSTRATION (a) FIG NO.	(b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION Usable On Code	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 11 MAIN CHASSIS SUBASSEMBLY		
C-13	1	XDFZZ		046-332	23042	RESISTOR, FIXED, COMPOSITION B	EA	1
C-13	2	XDFZZ		059-042	23042	INSULATOR, STANDOFF B	EA	1

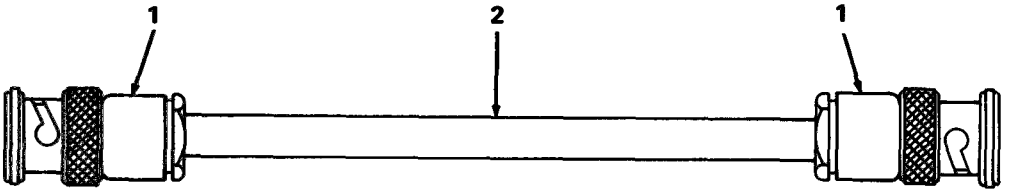

Figure C-14. Ciaxial Cable Subassembly

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION Usable On Code	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 12 COAXIAL CABLE SUBASSEMBLY		
C-14	1	PAFZZ	5935-01-043-0629	M39012/16-0101	81349	CONNECTOR. RF, UG-88C/U	EA	12
C-14	2	PAFZZ	6145-00-681-7849	M 17/84-RG-223	81349	CONDUCTOR, COAXIAL, RG-223/U	EA	1
C-14	2	PAFZZ	6145-00-681-7849	M1 7/84-RG-223	81349	CONDUCTOR, COAXIAL, RG-223/U	EA	1
C-14	2	PAFZZ	6145 -00-681-7849	M17/84-RG223	8 1 349	CONDUCTOR, COAXIAL, RG-223/	EA	1
C-14	2	PAFZZ	6145 -00-681-7849	M1 7/84-RG223	81349	CONDUCTOR, COAXIAL, RG-223/	EA	1

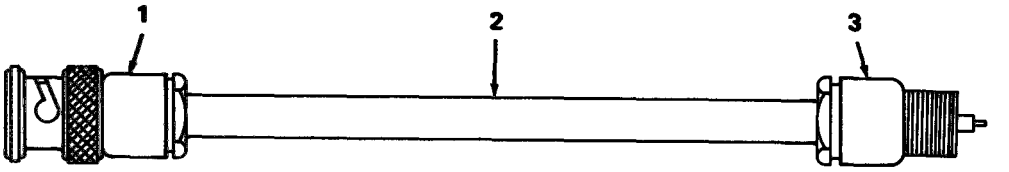

Figure C-15. Coaxial Cable Subassembly

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION Usable On Code	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 13 COAXIAL CABLE SUBASSEMBLY		
C-15	1	PAFZZ	5935-01-043-0629	M39012/16-0101	31349	CONNECTOR, RF, UG-88C/U	EA	3
C-15	2	PAFZZ	6145-00-681-7849	M 17/84-RG223	81349	CONDUCTOR, COAXIAL, RG-223/U	EA	1
C-15	2	PAFZZ	6145-00-68 1-7849	M17/84-RG223	81349	CONDUCTOR, COAXIAL. RG-223/U	EA	1
C-15	2	PAFZZ	6145-00-681-7849	M17/84-RG223	81349	CONDUCTOR, COAXIAL, RG-223/U	EA	1
C-15	3	XDFZZ		RF5070	09408	CONNECTOR, RF, 5070	EA	3

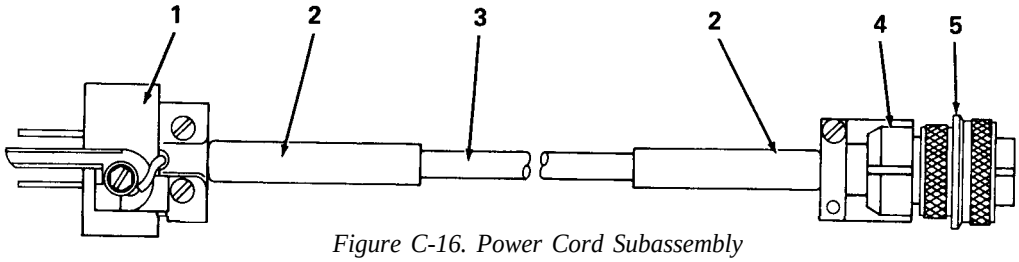

Figure C-16. Power Cord Subassembly

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION Usable On Code	(7) U/M	(8) QTY INC IN UNIT
						GROUP:14 POWER CORD SUBASSEMBLY		
C-16	1	XDFZZ		UP131M		CONNECTOR UP13 1 M	EA	1
C-16	2	XDFZZ				INSULATION, CONNECTOR, BOOT	EA	2
C-16	3	XDFZZ				CONDUCTOR, 18 GAUGE, 3 STRAND, 73" LONG	EA	1
C-16	4	XAFZZ	5935-00-280-2195	MS3057-6A	96906	CLAMP CONNECTOR MS3057-6A	EA	1
C-16	5	XDFZZ		MS3106A-145-1S		CONNECTOR MS3 1 06A-145-1 S	EA	1

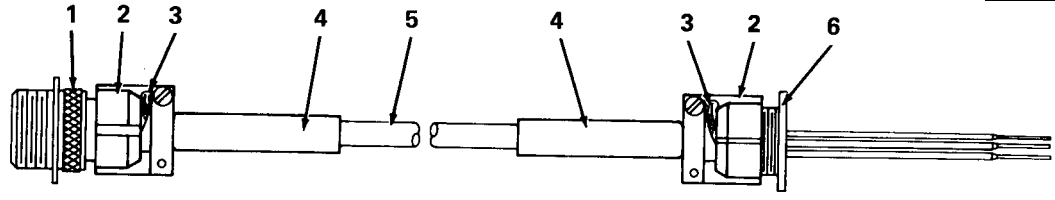

Figure C-17. Power Cord Subassembly, Internal

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION Usable On Code	(7) U/M	(8) QTY INC IN UNIT
						GROUP:15 POWER CORD SUBASSEMBLY, INTERNAL		
C-17	1	XDFZZ		MS3 100 A-1 45-1P	96906	CONNECTOR MS3 100A-1 45- 1 P	EA	1
C-17	2	XAFZZ		MS3057-67	96906	CLAMP, CONNECTOR MS3057-67	EA	2
C-17	3	XDFZZ				TERMINAL #4 GROUND LUG	EA	2
C-17	4	XDFZZ				INSULATION, CONNECTOR, BOOT	EA	2
C-17	5	XDFZZ				CONDUCTOR, 18 GAUGE, 3 STRAND, 16" LONG	EA	1
C-17	6	XDFZZ				CONNECTOR, DUMMY, RECEPTACLE	EA	1

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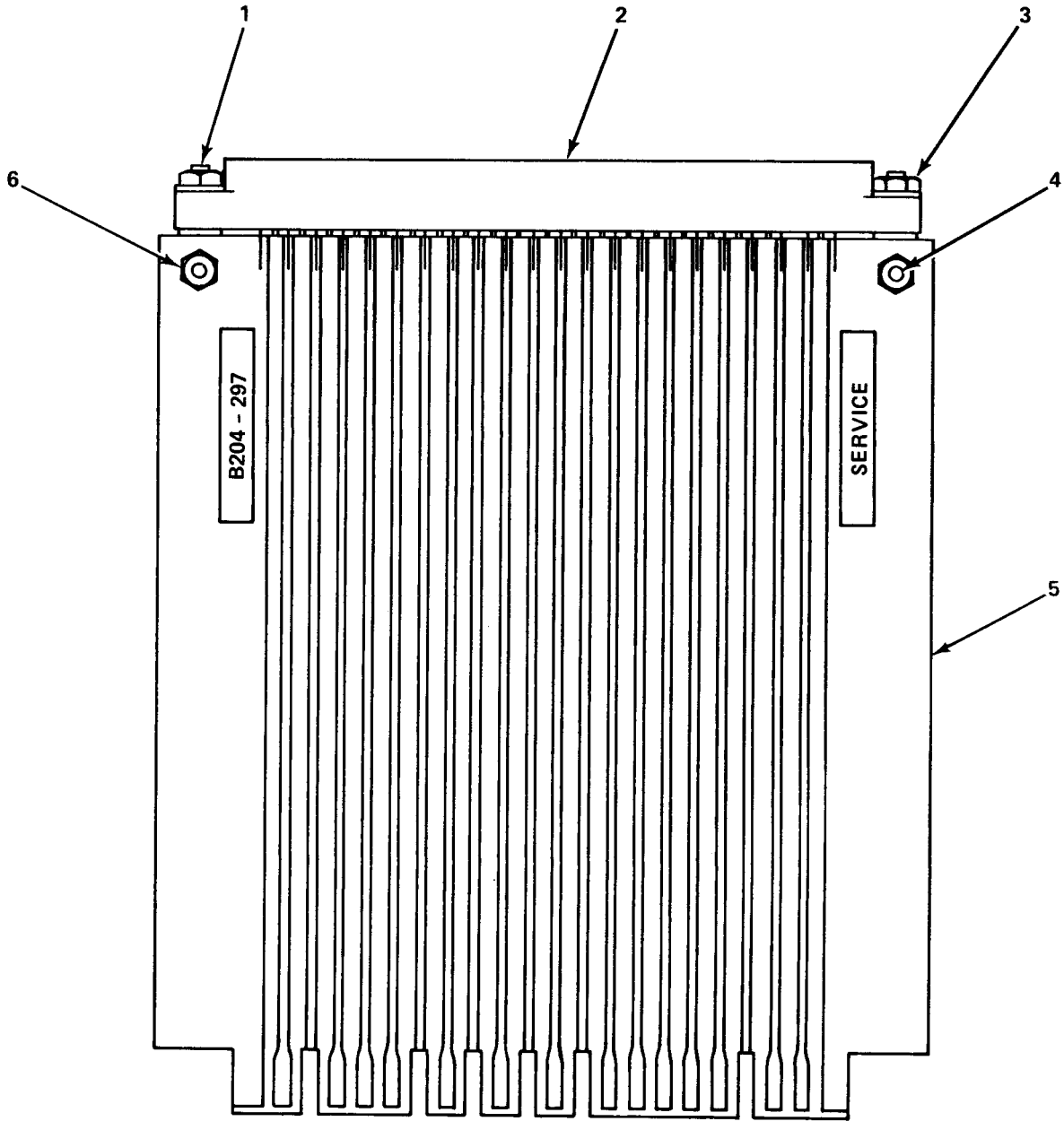

Figure C-18. Service Printed Circuit Board Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 16 SERVICE PRINTED CIRCUIT BOARD SUBASSEMBLY		
C-18	1	XDFZZ		059-002	23042	LUG,SPADE	EA	2
C-18	2	XDFZZ		B054-024-07	33042	SOCKET,PCB	EA	1
C-18	3	XDFZZ		050-295	23042	NUT,HEX	EA	2
C-18	4	XDFZZ		MS351957-13	96906	SCREW	EA	2
C-18	5	XDFZZ		B208-073	23042	PCB,SERVICE	EA	1
C-18	6	XDFZZ		MS35649-244	96906	NUT,HEX	EA	2

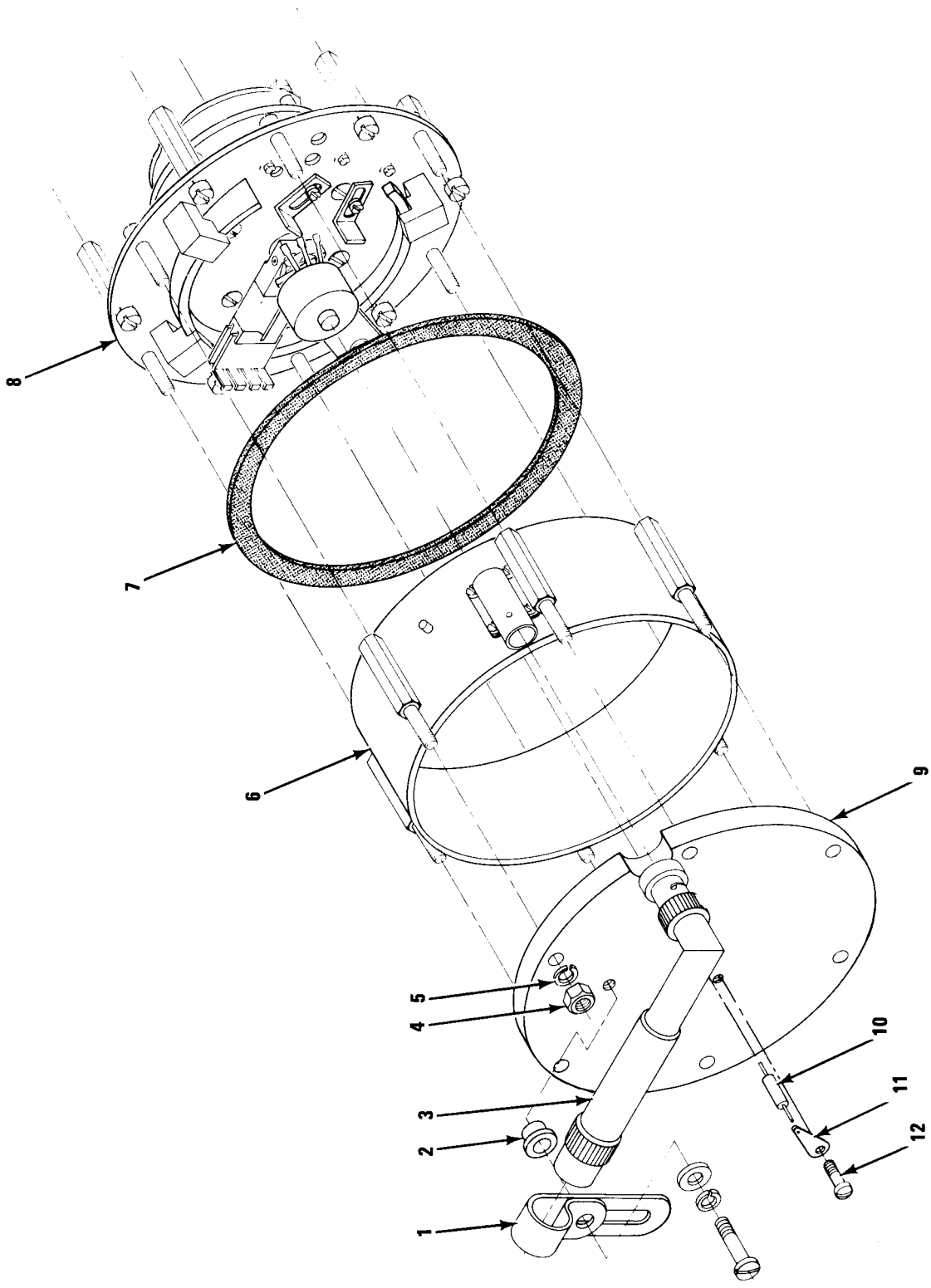

Figure C-19. UHF Oscillator Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 17 UHF OSCILLATOR SUBASSEMBLY		
C-19	1	XDFZZ		017-022	06229	CLAMP,FILTER	EA	1
C-19	2	XDDZZ		055-127	73734	BUSHING,FLANGED	EA	1
C-19	3	PAFZZ	5915-00-229-1504	B204-348	23042	FILTER,LOW-PASS	EA	1
C-19	4	XDDZZ		MS35639-246	96906	NUT,HEX	EA	6
C-19	5	XDDZZ		MS35639-79	96906	WASHER,SPLIT,LOCK	EA	6
C-19	6	XDDZZ		D204-344	23042	RING, ENCLOSURE	EA	1
C-19	7	XDDZZ		223-023	07700	SHIELD, BRAID	EA	1
C-19	8	XDDDD	6625-00-173-2284	D204-345	23042	BASE PLATE SUBASSEMBLY	EA	1
C-19	9	XDDZZ		B211-055	23042	COVER	EA	1
C-19	10	PADZZ	5905-00-104-5755	RCR20G100JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-19	11	XDDZZ		059-005	73734	TERMINAL, GROUND LUG	EA	1
C-19	12	XDDZZ	5305-00-054-5647	MS51957-13	96906	SCREW, PAN HEAD	EA	1

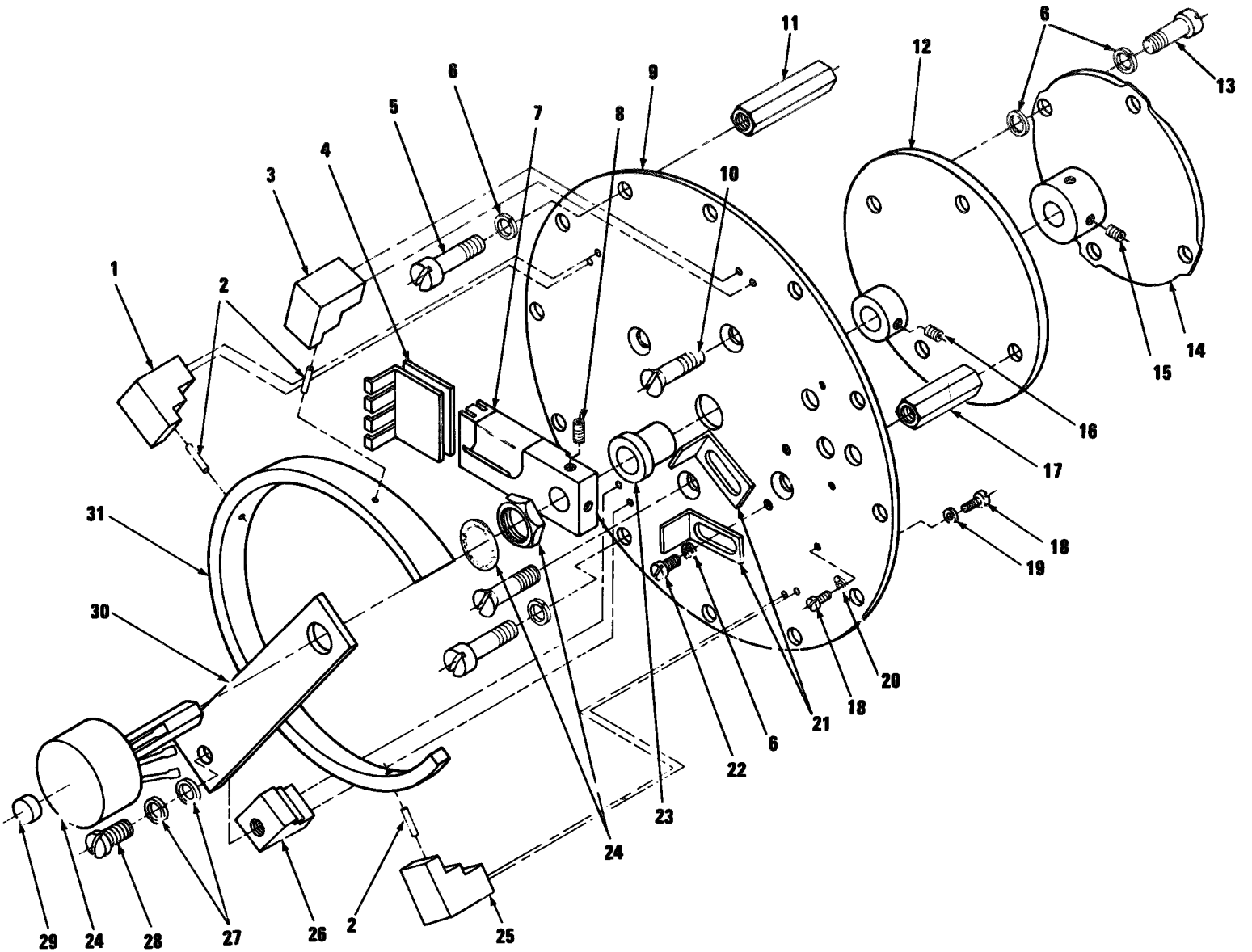

Figure C-20. Base Plate Subassembly (Sheet 1 of 2)

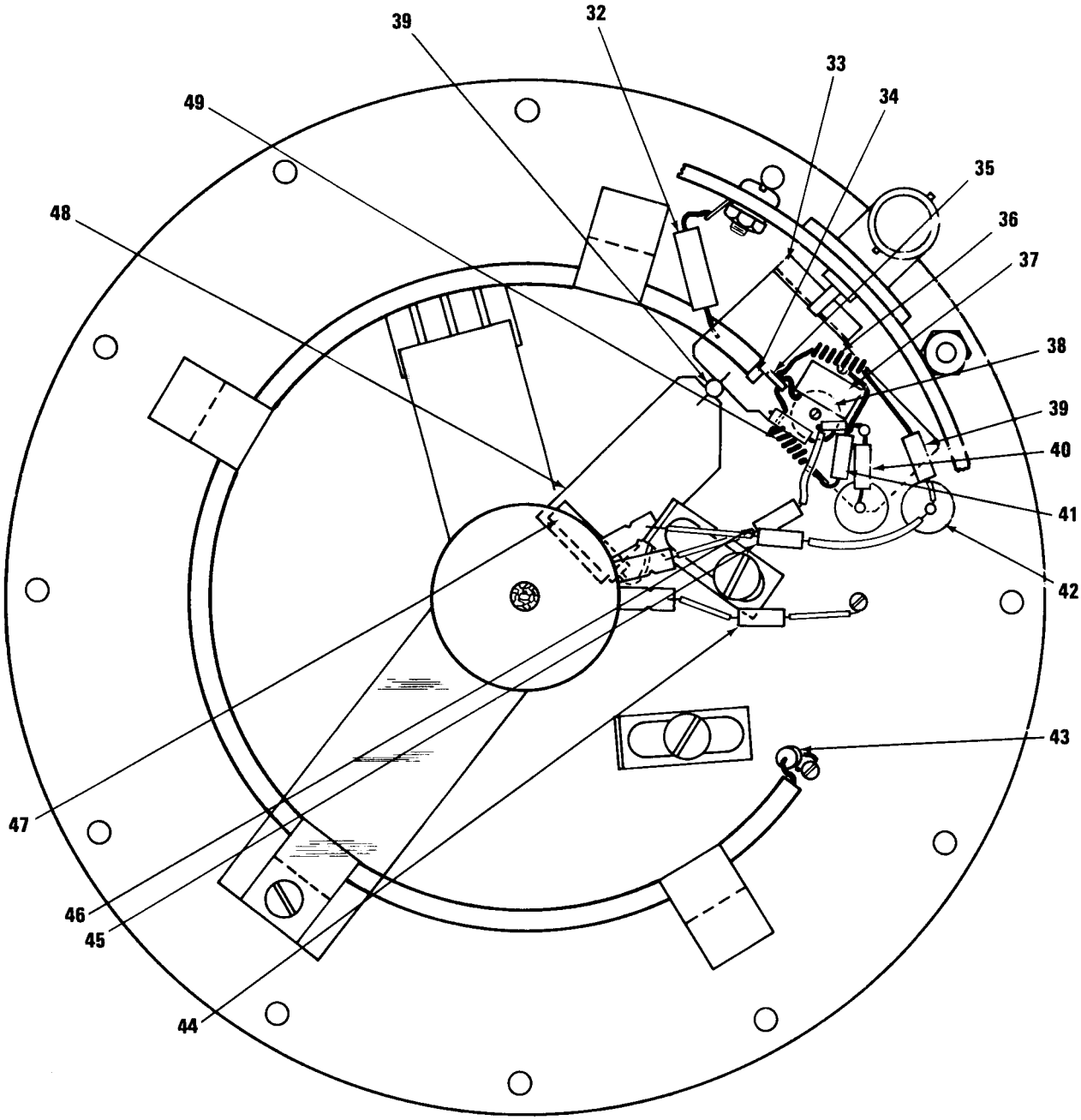

Figure C-20. Base Plate Subassembly (Sheet 2 of 2)

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 1701 BASE PLATE SUBASSEMBLY		
C-20	1	XDDZZ		A216-027	23042	BLOCK, LINE, MOUNTING	EA	1
C-20	2	XDDZZ		028-006	23042	FASTENER, PIN, SPIRAL	EA	4
C-20	3	XDDZZ		A216-028	23042	BLOCK, LINE, MOUNTING	EA	1
C-20	4	PADZZ	6625-00-400-3688	A021-070	23042	CONTACT, WIPER	EA	1
C-20	5	PADZZ	5305-00-054-6653	MS51957-29	96906	SCREW, PAN HEAD	EA	4
C-20	6	PADZZ	5310-00-929-6395	MS35338-136	96906	WASHER,SPLIT, LOCK	EA	15
C-20	7	PADZZ	5999-00-491-5195	A221-009	23042	CONTACT, ROTOR	EA	1
C-20	8	PADZZ	5305-00-954-2724	NAS1081C08 D4N	80205	SETSCREW	EA	3
C-20	9	XADZZ		C219-091	23042	PLATE, BASE	EA	1
C-20	10	XDDZZ		050-305	73734	SCREW, FLAT HEAD	EA	4
C-20	11	XDDZZ		055-125	06540	SPACER, HEX	EA	4
C-20	12	XDDZZ		A223-051	23042	SHIELD	EA	1
C-20	13	PADZZ	5305-00-054-6655	MS51957-31	96906	SCREW, PANHEAD	EA	4
C-20	14	PADZZ	6625-00-097-9181	A026-001	23042	DRIVE, TUNING	EA	1
C-20	15	PADZZ	5305-00-140-2162	050-181	23042	SETSCREW	EA	2
C-20	16	XDDZZ		050-288	73734	SETSCREW	EA	1
C-20	17	XDDZZ		055-126	06540	SPACER, HEX	EA	4
C-20	18	PADZZ	5305-00-054-5636	MS51957-2	96906	SCREW, PAN HEAD	EA	11
C-20	19	PADZZ	5310-00-928-2690	MS35338-134	96906	WASHER,SPLIT, LOCK	EA	11
C-20	20	XDDZZ		059-034	73734	TERMINAL, GROUND LUG	EA	3
C-20	21	XDDZZ		A209-012	23042	BRACKET, ADJUSTABLE STOP	EA	2
C-20	22	PADZZ	5305-00-054-6649	MS51957-25	96906	SCREW, PAN HEAD	EA	2
C-20	23	XDDZZ		010-013	23042	BEARING	EA	1
C-20	24	XDDZZ		048-095	01121	RESISTOR, VARIABLE	EA	1
C-20	25	XDDZZ		A216-006	23042	BLOCK, LINE, MOUNTING	EA	1
C-20	26	XDDZZ		A216-025	23042	BLOCK, LINE, MOUNTING	EA	1

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-20	27	PADZZ	5310-00-722-5998	MS15795-805	96906	WASHER, SPLIT, LOCK	EA	2
C-20	28	PADZZ	5305-00-054-6653	MS51957-29	96906	SCREW, PAN HEAD	EA	1
C-20	29	XDDZZ		021-016	07700	CONTACT, FUZZ BUTTON	EA	1
C-20	30	XDDZZ		A209-051	23042	BRACKET MOUNTING	EA	1
C-20	31	PADZZ	6625-00-400-3691	C215-017	23042	LINE, TUNING	EA	1
C-20	32	PADZZ	5905-00-108-6922	RCR20G151JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-20	33	PADZZ	5910-00-520-2793	B012-193	23042	CAPACITOR, PLATE	EA	1
C-20	34	XDDZZ		064-006	88236	VARACTOR, 4 PF	EA	1
C-20	35	XDDZZ		A012-118	23042	CAPACITOR, CHIP	EA	1
C-20	36	XDDZZ		A035-035-01	23042	INDUCTOR	EA	1
C-20	37	PADZZ	5961-00-520-2797	062-051	23042	TRANSISTOR	EA	1
C-20	38	XDDZZ		A012-037	23042	CAPACITOR, STAND-OFF	EA	1
C-20	39	PADZZ	5905-00-104-8368	RCR07G470JS	81349	RESISTOR, FIXED, COMPOSITION	EA	2
C-20	40	XDDZZ		035-004	82142	INDUCTOR	EA	1
C-20	41	XDDZZ		025-016	73293	DIODE, SEMICONDUCTOR	EA	1
C-20	42	XDDZZ		A012-001	23042	CAPACITOR, FEED-THROUGH	EA	2
C-20	43	PADZZ	5905-00-106-9344	RCR20G101JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-20	44	PADZZ	5905-00-105-7764	RCR07G222JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-20	45	PADZZ	5905-00-110-7622	RCR07G682JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-20	46	PADZZ	5905-00-141-1183	RCR07G101JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-20	47	PADZZ	5905-00-110-0196	RCR20G102JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-20	48	PADZZ	5910-00-520-2793	B012-193	23042	CAPACITOR, PLATE	EA	1
C-20	49	XDDZZ		A035-035-02	23042	INDUCTOR	EA	1

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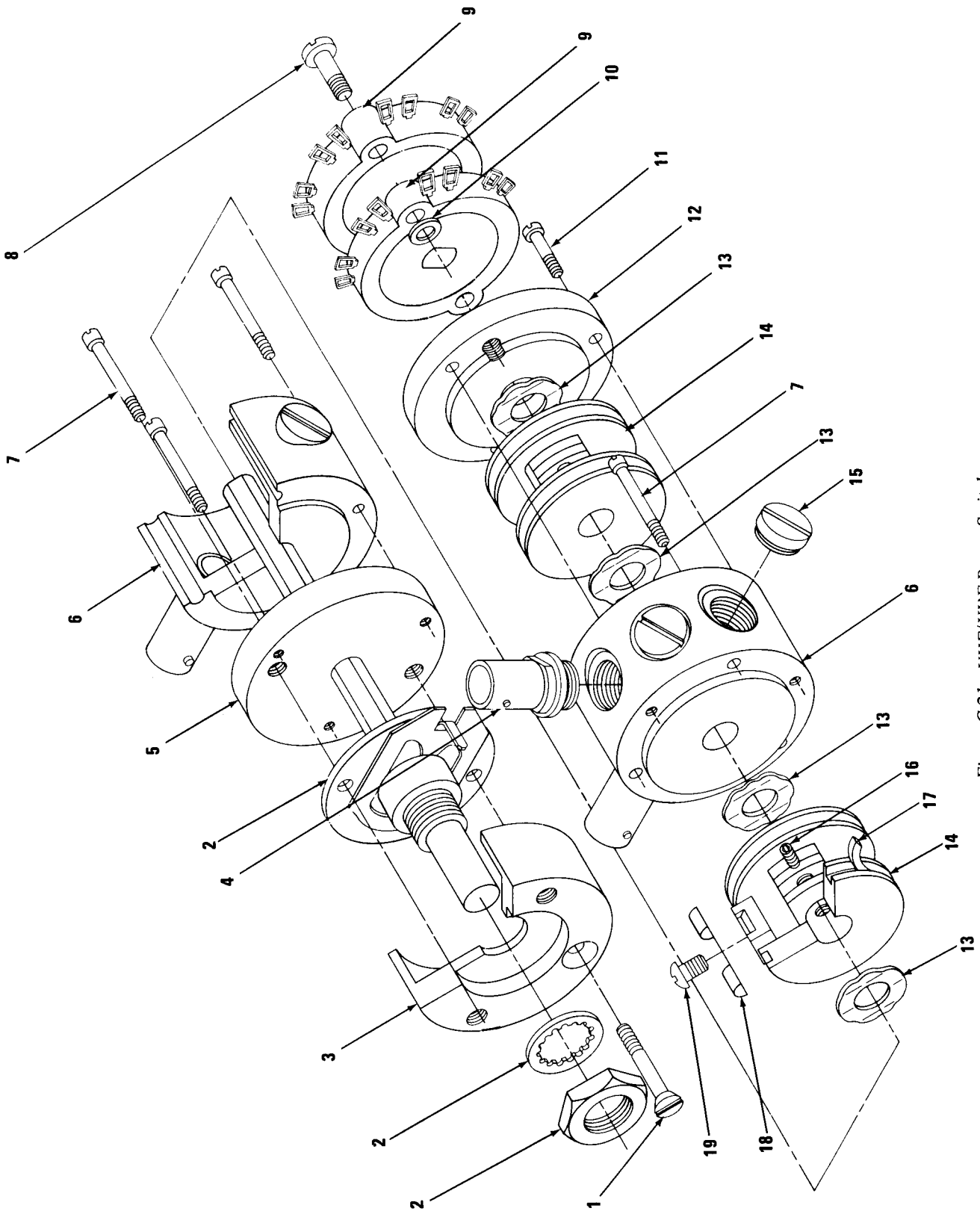

Figure C-21. UHF/VHF Range Switch

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 18UHF/VHF RANGE SWITCH		
C-21	1	XDDZZ		050-131	73734	SCREW,MACHINE,FILLISTER HEAD	EA	2
C-21	2	XDDZZ		A057-012-03	23042	FRAME, 60@ DETENT	EA	1
C-21	3	XDDZZ		A219-020	23042	PLATE, FRONT SWITCH	EA	1
C-21	4	XDDZZ		A020-032	23042	CONNECTOR, RF	EA	6
C-21	5	XDDZZ		A055-020	23042	SPACER, SWITCH	EA	1
C-21	6	XDDZZ		A212-044	23042	ENCLOSURE, SWITCH	EA	2
C-21	7	XDDZZ		050-129	73734	SCREW, MACHINE, FILLISTER HEAD	EA	6
C-21	8	XDDZZ		050-268	73734	SCREW, MACHINE, BINDING HEAD	EA	2
C-21	9	PADZZ	5930-00-455-4552	A057-013	23042	SECTION, WAFER	EA	2
C-21	10	XDDZZ		050-141	73734	WASHER, FIBER	EA	6
C-21	11	XDDZZ		050-065	73734	SCREW, MACHINE, BINDING HEAD	EA	3
C-21	12	XDDZZ		A219-021	23042	PLATE, REAR SWITCH	EA	1
C-21	13	XDDZZ		A056-005	23042	WASHER, TENSION	EA	4
C-21	14	XDDZZ		A214-003	23042	HUB, COAXIAL SWITCH	EA	2
C-21	15	XDDZZ		A044-006	23042	PLUG, ACCESS	EA	6
C-21	16	XDDZZ		050-132	73734	SCREW, MACHINE, SET	EA	4
C-21	17	XDDZZ		223-017	07700	BRAID	IN	12
C-21	18	XDDZZ		A021-011	23042	CONTACT, SWITCH	EA	2
C-21	19	XDDZZ		050-130	73734	SCREW, NYLON	EA	2

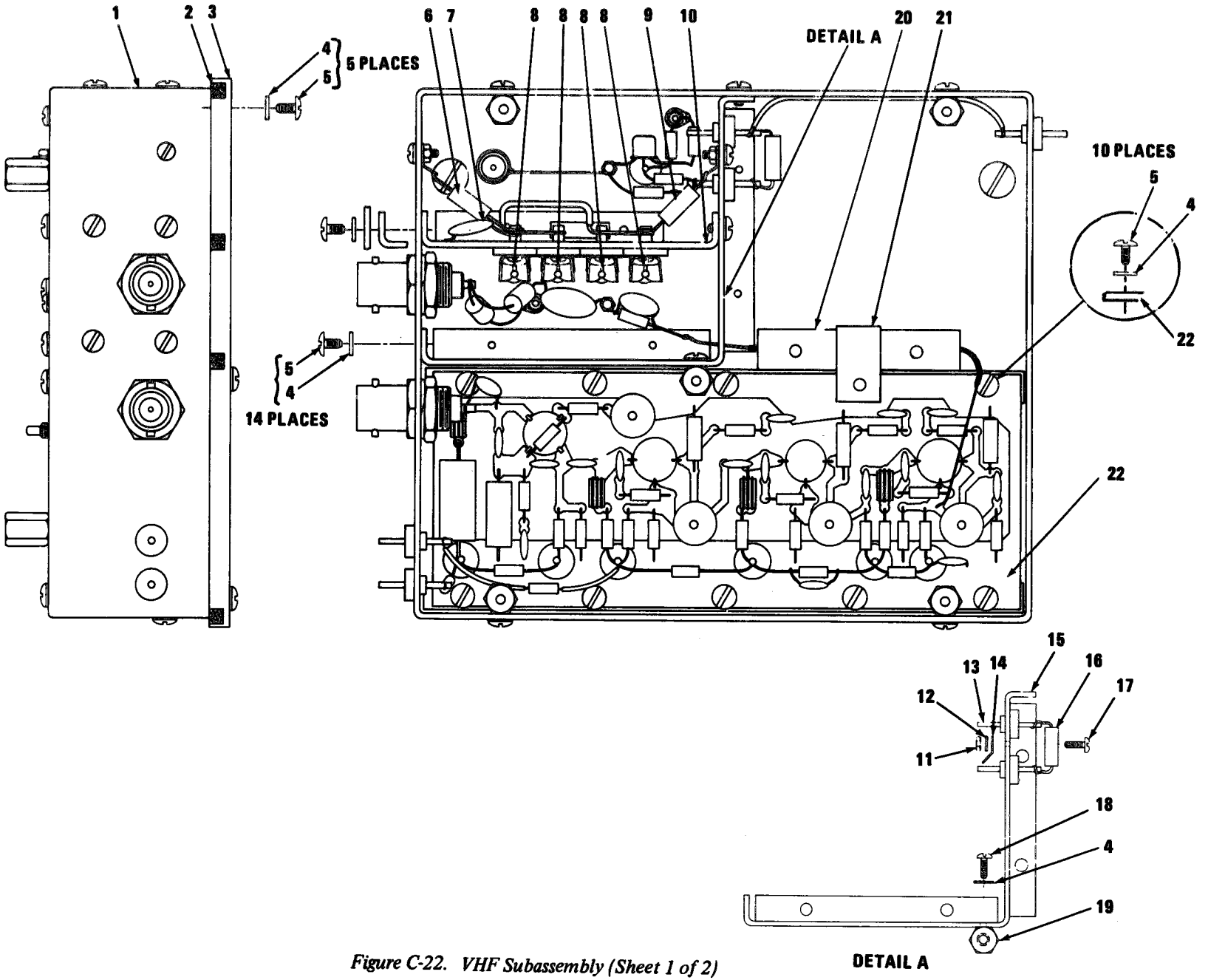

Figure C-22. VHF Subassembly (Sheet 1 of 2)

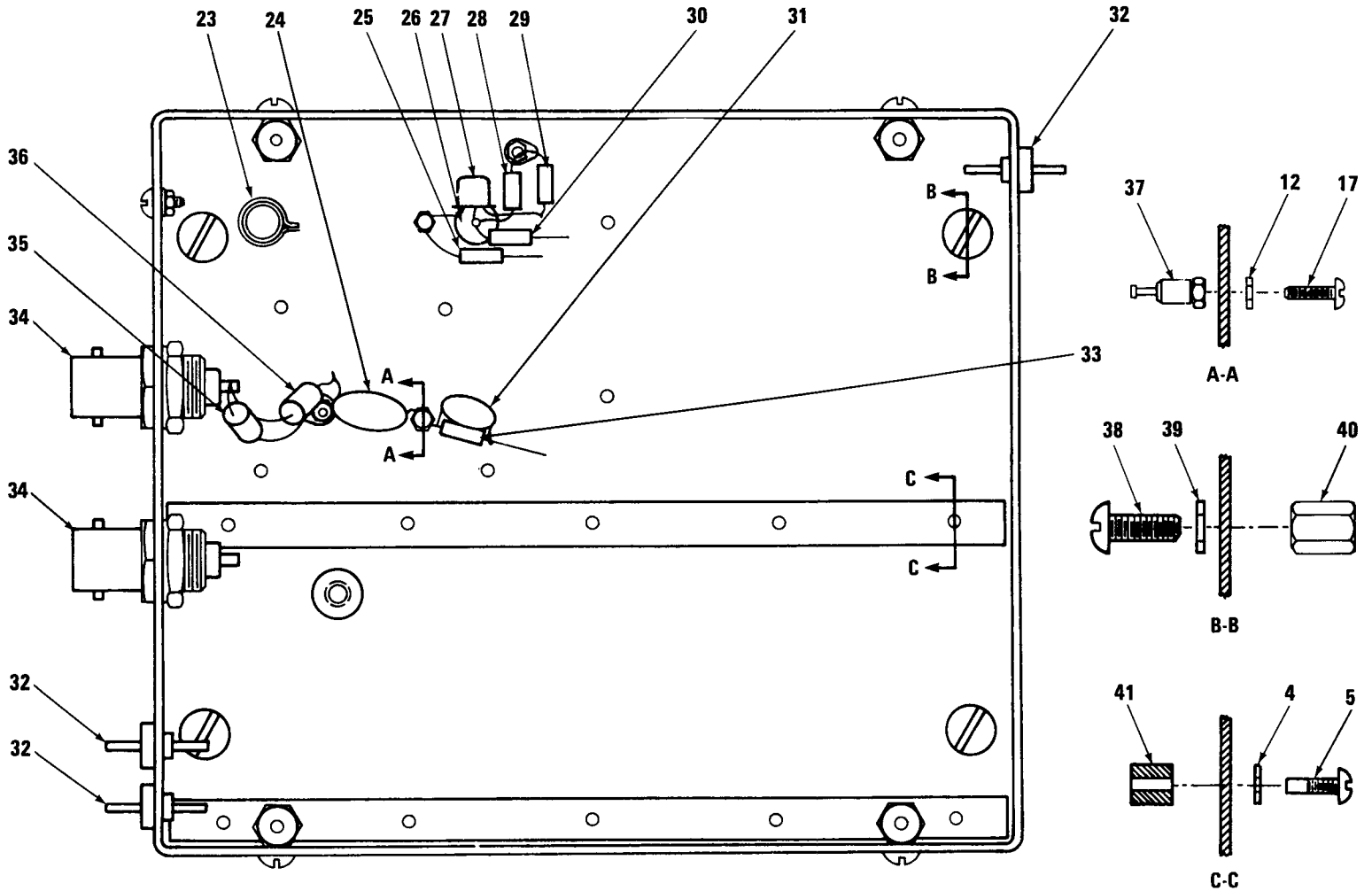

Figure C-22. VHF Subassembly (Sheet 2 of 2)

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 19 VHF SUBASSEMBLY		
C-22	1			D204-333	23042	ENCLOSURE	EA	1
C-22	2	XDDZZ		223-027	07700	SHIELD, BRAID	IN	27 1/2
C-22	3	XDDZZ		B211-054	23042	COVER	EA	1
C-22	4	PADZZ	5310-00-933-8118	MS35338-135	96906	WASHER, SPLIT, LOCK	EA	44
C-22	5	PADZZ	5305-00-054-5646	MS51957-12	96906	SCREW, PAN HEAD	EA	39
C-22	6	PADZZ	5905-00-400-4529	RCR20G501JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-22	7	PADZZ	5910-00-068-5735	CK60BX3R3K	81349	CAPACITOR, FIXED	EA	1
C-22	8	XDDZZ		025-057	23042	DIODE, SEMICONDUCTOR	EA	4
C-22	9	PADZZ	5905-00-106-9344	RCR20G101JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-22	10	XADDD		A210-015	23042	CHASSIS	EA	1
C-22	11	PADZZ	5310-00-938-2013	MS35649-224	96906	NUT, HEX	EA	4
C-22	12	PADZZ	5310-00-928-2690	MS35338-134	96906	WASHER, SPLIT, LOCK	EA	6
C-22	13	XDDZZ		A012-001	23042	CAPACITOR, FIXED, FEED-THROUGH	EA	2
C-22	14	XDDZZ		059-034	73734	TERMINAL, GROUND	EA	4
C-22	15	XDDZZ		C223-053	23042	SHIELD	EA	1
C-22	16	PADZZ	5905-00-141-0591	RCR20G103JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-22	17	PADZZ	5305-00-054-5636	MS51957-2	96906	SCREW, PAN HEAD	EA	4
C-22	18	PADZZ	5305-00-054-5648	MS51957-14	96906	SCREW, PAN HEAD	EA	5
C-22	19	PADZZ	5310-01-026-0814	A055-006	23042	SPACER, HEX	EA	5
C-22	20	PADZZ	5915-00-244-4509	B204-059	23042	FILTER	EA	1
C-22	21	XDDZZ		A209-077	23042	BRACKET, FILTER	EA	1
C-22	22	XDDDD		C204-334	23042	VHF PRINTED CIRCUIT BOARD SUBASSEMBLY	EA	1
C-22	23	XDDZZ		015-018	72982	CAPACITOR, VARIABLE	EA	1
C-22	24	PADZZ	5910-00-924-4231	TA01UFPORM 20PCT	91418	CAPACITOR, FIXED	EA	1
C-22	25	XDDZZ		A035-002	82142	INDUCTOR	EA	1

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-22	26	XDDZZ		A012-037	23042	CAPACITOR, STAND-OFF	EA	1
C-22	27	XDDZZ		062-042	23042	TRANSISTOR	EA	1
C-22	28	PADZZ	5905-00-126-6683	RCR07G332JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-22	29	PADZZ	5905-00-119-3503	RCR07G271JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-22	30	PADZZ	5905-00-106-3666	RCR07G103JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-22	31	PADZZ	5910-00-845-4780	CK60BX330K	81349	CAPACITOR, FIXED	EA	1
C-22	32	XDDZZ		A012-001	23042	CAPACITOR, FIXED, FEED-THROUGH	EA	3
C-22	33	PADZZ	5905-00-120-9154	RCR07G471JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-22	34	XDDZZ		UG-625/U	09408	CONNECTOR	EA	2
C-22	35	PADZZ	5905-00-114-5438	RCR20G510JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-22	36	XDDZZ		012-210	95121	CAPACITOR, FIXED	EA	1
C-22	37	XDDZZ		059-014	23042	TERMINAL, STAND-OFF	EA	2
C-22	38	PADZZ	5305-00-054-6666	MS51957-41	96906	SCREW, PAN HEAD	EA	4
C-22	39	PADZZ	5310-00-933-8119	MS35338-137	96906	WASHER, SPLIT, LOCK	EA	4
C-22	40	XDDZZ		055-009	23042	SPACER, HEX	EA	4
C-22	41	XDDZZ		A209-073	23042	BRACKET	EA	2

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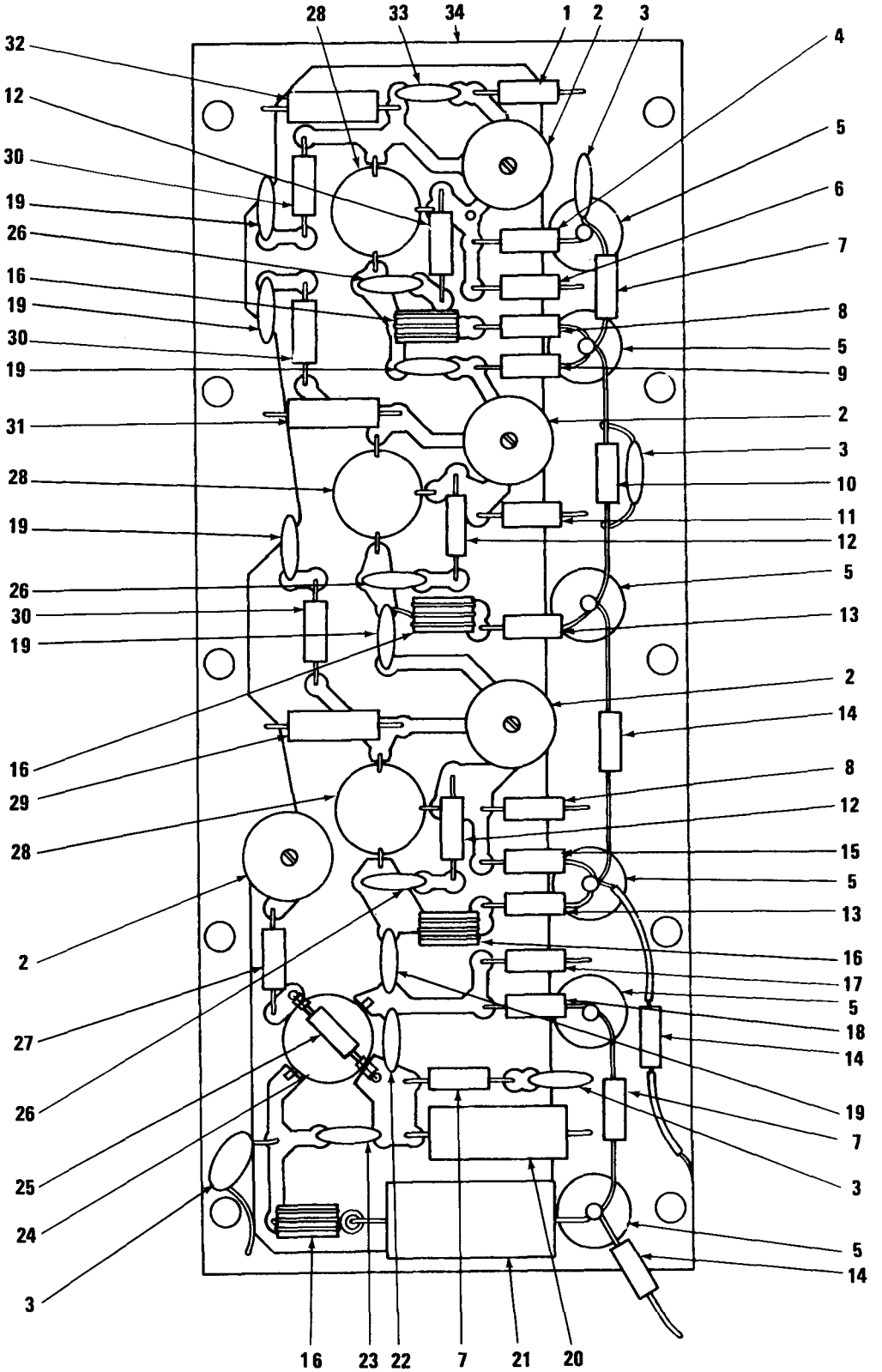

Figure C-23. VHF Printed Circuit Board Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 1901 VHF PRINTED CIRCUIT BOARD SUBASSEMBLY		
C-23	1	PADZZ	5910-00-983-5388	CK60BX100K	81349	CAPACITOR, FIXED	EA	1
C-23	2	XDDZZ		A015-017	23042	CAPACITOR, VARIABLE	EA	4
C-23	3	XDDZZ		A012-114	23042	CAPACITOR, FIXED	EA	4
C-23	4	PADZZ	5905-00-104-8358	RCR07G822JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-23	5	XDDZZ		A012-037	23042	CAPACITOR, FIXED	EA	6
C-23	6	PADZZ	5905-00-106-1356	RCR07G152JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-23	7	PADZZ	5905-00-106-3668	RCR07G220JS	81349	RESISTOR, FIXED, COMPOSITION	EA	3
C-23	8	PADZZ	5905-00-135-6046	RCR07G681JS	81349	RESISTOR, FIXED, COMPOSITION	EA	2
C-23	9	PADZZ	5905-00-126-6683	RCR07G332JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-23	10	PADZZ	5905-00-141-1183	RCR07G101JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-23	11	PADZZ	5905-00-105-7768	RCR07G561JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-23	12	PADZZ	5905-00-105-7768	RCR07G561JS	81349	RESISTOR, FIXED, COMPOSITION	EA	3
C-23	13	PADZZ	5905-00-135-3973	RCR07G221JS	81349	RESISTOR, FIXED, COMPOSITION	EA	2
C-23	14	PADZZ	5905-00-107-0656	RCR07G100JS	81349	RESISTOR, FIXED, COMPOSITION	EA	3
C-23	15	PADZZ	5905-00-114-0711	RCR07G472JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-23	16	PADZZ	5950-00-229-3979	A035-029	23042	INDUCTOR, FIXED	EA	4
C-23	17	PADZZ	5905-00-141-1132	RCR07G752JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-23	18	PADZZ	5905-00-106-3666	RCR07G103JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-23	19	PADZZ	5910-00-924-4231	TA01UFPORM 20PCT	91418	CAPACITOR, FIXED	EA	6
C-23	20	PADZZ	5905-00-247-8722	RCR32G271JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-23	21	PADZZ	5905-00-412-1121	RCR42G221JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-23	22	PADZZ	5910-00-950-9873	CK60BX220K	81349	CAPACITOR, FIXED	EA	1
C-23	23	PADZZ	5910-00-068-5735	CK60BX3R3K	81349	CAPACITOR, FIXED	EA	1
C-23	24	PADZZ	5961-00-998-9314	2N4429	80131	TRANSISTOR	EA	1
C-23	25	PADZZ	5905-00-106-3667	RCR07G120JS	81349	RESISTOR, FIXED, COMPOSITION	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
C-23	26	ADZZ	5910-00-821-5215	CK60AX471K	81349	CAPACITOR, FIXED		EA	6
C-23	27	PADZZ	5905-00-246-9393	RCR07G4R7JS	81349	RESISTOR, FIXED, COMPOSITION		EA	1
C-23	28	PADZZ	5961-00-520-2797	062-051	23042	TRANSISTOR		EA	3
C-23	29	PADZZ	5905-00-114-5388	RCR20G220JS	81349	RESISTOR, FIXED, COMPOSITION		EA	1
C-23	30	PADZZ	5905-00-104-8368	RCR07G470JS	81349	RESISTOR, FIXED, COMPOSITION		EA	3
C-23	31	PADZZ	5950-00-141-1118	RCR20G390JS	81349	RESISTOR, FIXED, COMPOSITION		EA	1
C-23	32	PADZZ	5905-00-114-5438	RCR20G510JS	81349	RESISTOR, FIXED, COMPOSITION		EA	1
C-23	33	PADZZ	5910-00-983-5388	CK60BX100K	81349	CAPACITOR, FIXED		EA	1
C-23	34	XADDD		B208-080	23042	PRINTED CIRCUIT BOARD		EA	1

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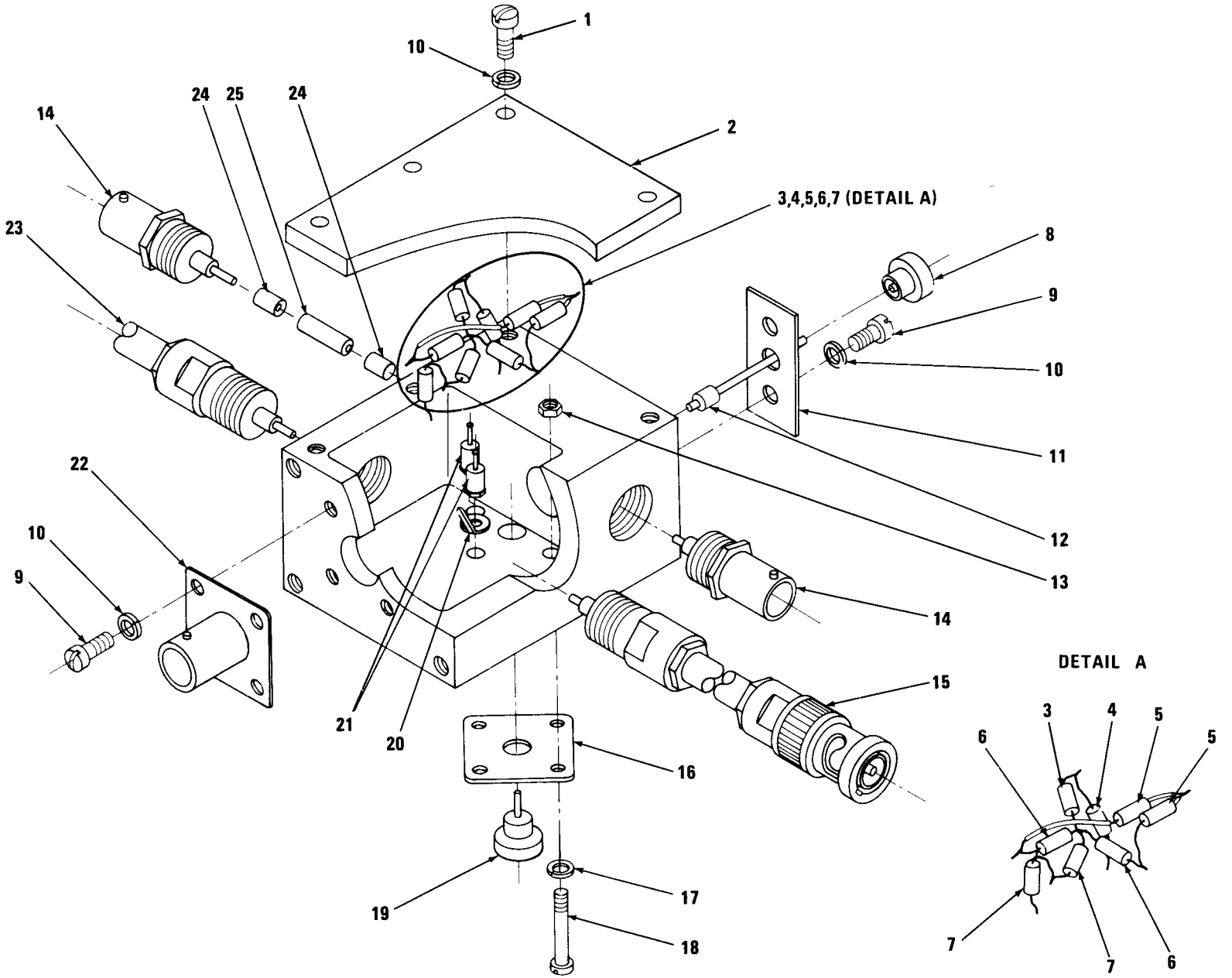

Figure C-24. Monitor/Mixer Subassembly

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 20 MONITOR/MIXER SUBASSEMBLY		
C-24	1	PADZZ	5305-00-054-5648	MS51957-14	96906	SCREW, PAN HEAD	EA	6
C-24	2	XDDZZ		A211-057	23042	COVER	EA	1
C-24	3	XDDZZ		025-058	23042	DIODE, SEMICONDUCTOR IN 82AG	EA	1
C-24	4	PADZZ	5905-00-135-3973	RCR07G221JS	81349	RESISTOR, FIXED, COMPOSITION	EA	1
C-24	5	PADZZ	5905-00-110-7620	RCR07G102JS	81349	RESISTOR, FIXED, COMPOSITION	EA	2
C-24	6	PADZZ	5905-00-111-4727	RCR07G272JS	81349	RESISTOR, FIXED, COMPOSITION	EA	2
C-24	7	PADZZ	5905-00-133-0440	RCR07G560JS	81349	RESISTOR, FIXED, COMPOSITION	EA	2
C-24	8	XDDZZ		012-002	01121	CAPACITOR, FEED-THROUGH 1000 PF	EA	1
C-24	9	PADZZ	5305-00-054-5647	MS51957-13	96906	SCREW, PAN HEAD	EA	6
C-24	10	PADZZ	5310-00-933-8118	MS35338-135	96906	WASHER, SPLIT, LOCK	EA	12
C-24	11	XDDZZ		A219-094	23042	PLATE	EA	1
C-24	12	XDDZZ		H05003	73293	DIODE, SEMICONDUCTOR	EA	1
C-24	13	PADZZ	5310-00-938-2013	MS35649-224	96906	NUT, HEX	EA	1
C-24	14	XDDZZ		UG625/U	09408	CONNECTOR	EA	2
C-24	15	XDDZZ			23042	CABLE SUBASSEMBLY	EA	1
C-24	16	XDDZZ		A219-093	23042	PLATE	EA	1
C-24	17	PADZZ	5310-00-928-2690	MS35338-134	96906	WASHER, SPLIT, LOCK	EA	4
C-24	18	PADZZ	5305-00-054-5641	MS51957-7	96906	SCREW, PAN HEAD	EA	4
C-24	19	XDDZZ		A012-001	23042	CAPACITOR, FEED-THROUGH 1000PF	EA	1
C-24	20	XDDZZ		059-019	73734	TERMINAL, GROUND LUG	EA	1
C-24	21	XDDZZ		059-014	23042	TERMINAL, STANDOFF	EA	2
C-24	22	PADZZ	5935-00-456-4791	5007	94375	CONNECTOR	EA	1
C-24	23	XDDZZ		NPN	23042	CABLE SUBASSEMBLY	EA	1
C-24	24	XDDZZ		A021-063	23042	CONTACT, RESISTOR	EA	2
C-24	25	XDDZZ		047-286	03888	RESISTOR, FIXED	EA	1

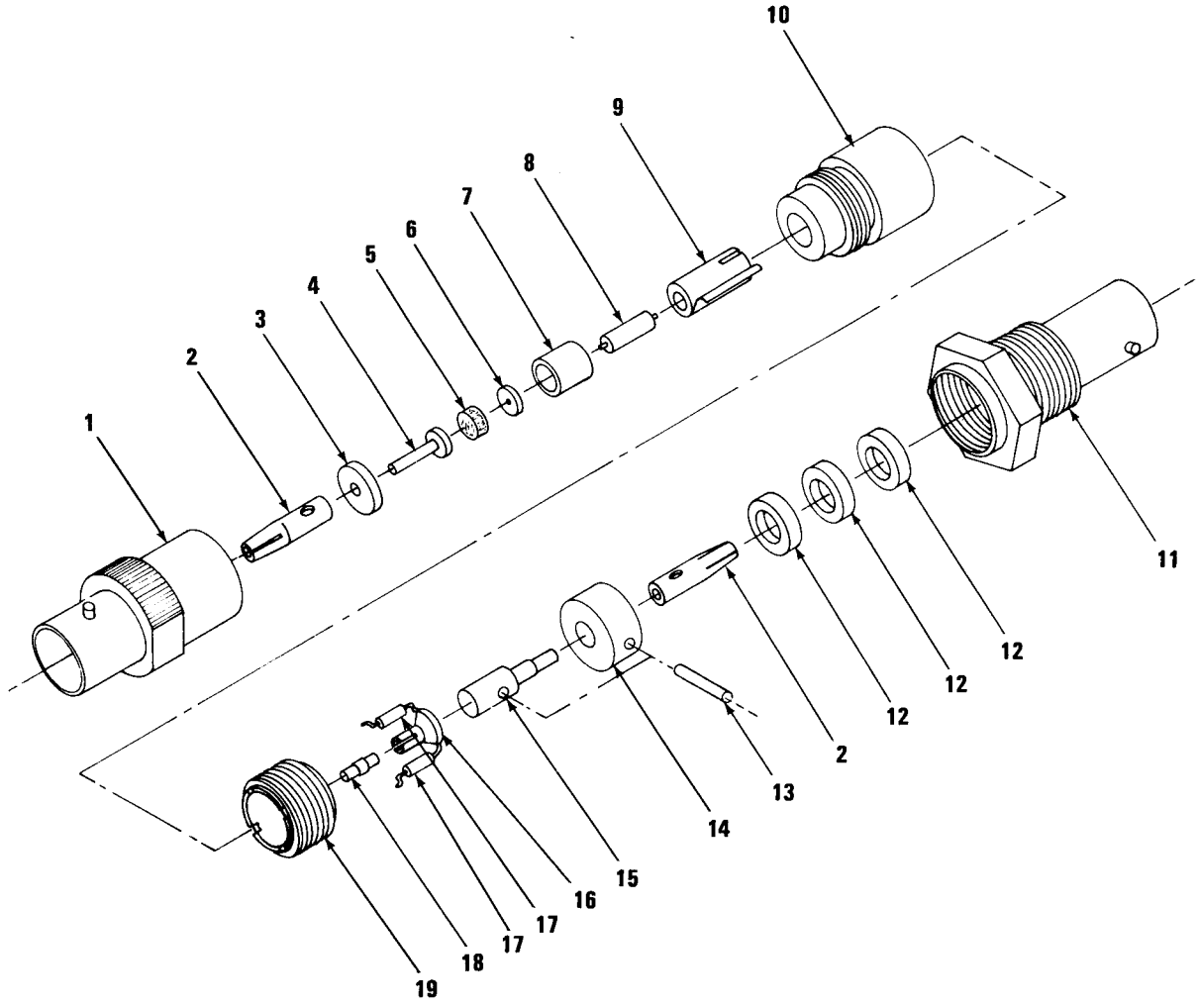

Figure C-25. RF Detector

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP: 21 RF DETECTOR		
C-25	1	XDDZZ		A020-122	09408	CONNECTOR, RF, BNC	EA	1
C-25	2	XDDZZ		A021-044	23042	CONTACT,BNC,PIN	EA	2
C-25	3	XDDZZ		012-211	31893	CAPACITOR,FIXED,FEED-THROUGH	EA	1
C-25	4	XDDZZ		A022-020-00	23042	COUPLING,CONTACT	EA	1
C-25	5	XDDZZ		021-037	07700	CONTACT,FUZZ BUTTON	EA	1
C-25	6	XDDZZ		A021-061	23042	CONTACT,RESISTOR	EA	1
C-25	7	XDDZZ		A055-093	23042	SPACER,TEFLON	EA	1
C-25	8	PADZZ	5905-00-120-9154	RCR07G471JS	81349	RESISTOR,FIXED,COMPOSITION	EA	1
C-25	9	XDDZZ		A012-140	23042	CAPACITOR,FILTER	EA	1
C-25	10	XDDZZ		B022-028	23042	COUPLING,MAJOR	EA	1
C-25	11	XDDZZ		020-119	09408	CONNECTOR,RF,BNC	EA	1
C-25	12	XDDZZ		A055-097	23042	SPACER,TEFLON	EA	3
C-25	13	XDDZZ		041-017	23042	INSULATION,TEFLON	EA	1
C-25	14	XDDZZ		A055-096	23042	SPACER	EA	1
C-25	15	XDDZZ		A022-022	23042	COUPLING,CONTACT	EA	1
C-25	16	XDDZZ		A017-009	23042	CLAMP,CONTACT	EA	1
C-25	17	XDDZZ		047-358	23042	RESISTOR,FIXED	EA	2
C-25	18	XDDZZ		025-041	93332	DIODE,SEMICONDUCTOR	EA	1
C-25	19	XDDZZ		A022-23	23042	COUPLING,MINOR	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)		(7)	(8)
			NATIONAL	PART		DESCRIPTION		U/M	QTY
(A) FIG NO.	(B) ITEM NO.	SMR CODE	STOCK NUMBER	NUMBER	FSCM		USABLE ON CODE		INC IN UNIT
				NOT APPLICABLE					

SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX
CONTINUED

NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER	NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER
5910-00-034-5603	C-11	17	5905-00-104-8368	C-20	39
5305-00-054-5636	C-20	18	5905-00-104-8368	C-23	30
5305-00-054-5636	C-22	17	5905-00-105-7764	C-20	44
5305-00-054-5641	C-24	18	5905-00-105-7765	C-8	6
5305-00-054-5646	C-22	5	5905-00-105-7768	C-23	11
5305-00-054-5647	C-12	27	5905-00-105-7768	C-23	12
5305-00-054-5647	C-19	12	5905-00-106-1245	C-4	7
5305-00-054-5647	C-24	9	5905-00-106-1246	C-9	13
5305-00-054-5648	C-11	26	5905-00-106-1282	C-3	22
5305-00-054-5648	C-12	39	5905-00-106-1282	C-4	16
5305-00-054-5648	C-22	18	5905-00-106-1282	C-6	14
5305-00-054-5648	C-24	1	5905-00-106-1356	C-23	6
5305-00-054-5649	C-12	12	5905-00-106-3666	C-8	8
5305-00-054-5651	C-12	43	5905-00-106-3666	C-22	30
5305-00-054-5652	C-12	44	5905-00-106-3666	C-23	18
5305-00-054-6649	C-20	22	5905-00-106-3667	C-23	25
5305-00-054-6650	C-5	4	5905-00-106-3668	C-23	7
5305-00-054-6650	C-7	6	5905-00-106-9344	C-20	43
5305-00-054-6652	C-1	18	5905-00-106-9344	C-22	9
5305-00-054-6652	C-11	18	5905-00-106-9345	C-3	17
5305-00-054-6652	C-12	13	5905-00-106-9351	C-4	17
5305-00-054-6653	C-12	63	5905-00-107-0656	C-23	14
5305-00-054-6653	C-20	5	5905-00-108-6922	C-20	32
5305-00-054-6653	C-20	28	5905-00-110-0196	C-3	18
5305-00-054-6655	C-20	13	5905-00-110-0196	C-20	47
5305-00-054-6666	C-22	38	5905-00-110-7620	C-8	5
5305-00-054-6668	C-1	17	5905-00-110-7620	C-24	5
5305-00-054-6668	C-12	57	5905-00-110-7622	C-20	45
5305-00-054-6671	C-1	57	5905-00-111-4727	C-24	6
5961-00-059-2904	C-11	10	5905-00-111-4738	C-3	14
5905-00-066-6051	C-3	11	5905-00-111-4742	C-12	32
5910-00-068-5735	C-22	7	5905-00-111-8357	C-6	10
5910-00-068-5735	C-23	23	5905-00-111-8372	C-9	9
6625-00-097-9181	C-20	14	5905-00-113-7346	C-11	2
5905-00-104-5755	C-19	10	5905-00-114-0710	C-8	11
5905-00-104-8330	C-3	16	5905-00-114-0711	C-8	10
5905-00-104-8330	C-4	18	5905-00-114-0711	C-23	15
5905-00-104-8330	C-6	11	5905-00-114-5319	C-12	29
5905-00-104-8333	C-4	23	5905-00-114-5388	C-23	29
5905-00-104-8335	C-4	22	5905-00-114-5393	C-3	8
5905-00-104-8336	C-3	12	5905-00-114-5438	C-22	35
5905-00-104-8346	C-3	9	5905-00-114-5438	C-23	32
5905-00-104-8346	C-4	24	5905-00-114-5441	C-3	20
5905-00-104-8352	C-11	7	5905-00-114-5441	C-4	20
5905-00-104-8353	C-4	4	5905-00-114-5489	C-4	21
5905-00-104-8358	C-23	4	5905-00-116-8554	C-7	10

NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER	NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER
5905-00-116-8554	C-8	13	6625-00-222-2444	C-1	7
5905-00-116-8555	C-12	30	5915-00-229-1504	C-19	3
5905-00-119-3503	C-8	9	5950-00-229-3979	C-23	16
5905-00-119-3503	C-22	29	5325-00-234-5371	C-12	34
5905-00-120-9154	C-22	33	5325-00-237-8144	C-12	23
5905-00-120-9154	C-25	8	5355-00-237-8187	C-1	52
5905-00-121-9861	C-4	10	5355-00-237-8188	C-1	50
5905-00-126-6683	C-22	28	5355-00-237-8191	C-1	49
5905-00-126-6683	C-23	9	5915-00-244-4509	C-22	20
5905-00-131-1256	C-11	6	5905-00-244-8258	C-9	11
5905-00-133-0440	C-24	7	5905-00-246-9393	C-23	27
5905-00-135-3973	C-8	12	5905-00-246-9399	C-3	6
5905-00-135-3973	C-23	13	5905-00-247-8715	C-4	14
5905-00-135-3973	C-24	4	5905-00-247-8722	C-23	20
5905-00-135-6046	C-23	8	5905-00-247-8728	C-4	3
5905-00-136-8338	C-10	8	5905-00-247-8733	C-9	10
5905-00-138-4927	C-5	8	5905-00-252-1671	C-7	4
5305-00-140-2162	C-20	15	5985-00-274-1297	C-1	21
5905-00-141-0591	C-3	7	5935-00-280-2195	C-16	4
5905-00-141-0591	C-11	16	5905-00-369-6916	C-4	9
5905-00-141-0591	C-22	16	5905-00-369-6923	C-10	9
5905-00-141-0592	C-3	23	6625-00-400-3688	C-20	4
5905-00-141-0595	C-4	13	6625-00-400-3690	C-1	11
5905-00-141-0595	C-6	15	6625-00-400-3691	C-20	31
5905-00-141-0596	C-3	15	5905-00-400-4529	C-22	6
5905-00-141-0596	C-4	19	5905-00-412-1121	C-23	21
5905-00-141-0596	C-12	36	5910-00-412-9235	C-9	2
5905-00-141-0600	C-3	24	6625-00-420-2382	C-1	14
5905-00-141-0600	C-6	12	6625-00-420-2383	C-1	13
5905-00-141-1073	C-3	10	6625-00-420-2384	C-1	12
5905-00-141-1073	C-4	15	6625-00-420-6198	C-1	10
5905-00-141-1116	C-3	21	6625-00-420-6200	C-1	9
5905-00-141-1116	C-6	13	6625-00-420-6225	C-1	8
5950-00-141-1118	C-23	31	6625-00-420-6226	C-1	45
5905-00-141-1132	C-23	17	6625-00-420-6227	C-1	32
5905-00-141-1183	C-8	7	6625-00-420-6229	C-1	41
5905-00-141-1183	C-20	46	5905-00-422-4773	C-4	12
5905-00-141-1183	C-23	10	5905-00-422-4773	C-9	12
5910-00-143-0501	C-11	11	6625-00-443-6415	C-12	60
5905-00-154-0068	C-4	8	6625-00-443-6416	C-1	2
5905-00-154-0068	C-10	11	5905-00-454-2873	C-4	5
5905-00-155-0081	C-11	9	5930-00-455-4552	C-21	9
5940-00-155-7688	C-12	9	5935-00-456-4791	C-24	22
5970-00-168-9409	C-12	24	5961-00-456-9025	C-7	2
6625-00-173-2284	C-19	8	5950-00-457-7957	C-12	51
5355-00-199-4088	C-1	46	6625-00-458-2450	C-1	15

NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER	NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER
5905-00-465-0142	C-12	66	5961-00-866-0476	C-9	6
5905-00-465-0143	C-12	26	5961-00-866-0476	C-10	5
5355-00-471-5644	C-1	23	5905-00-874-1047	C-10	10
5905-00-472-3470	C-11	15	5961-00-883-8906	C-9	4
5999-00-491-5195	C-20	7	5910-00-892-7334	C-6	1
6625-00-494-2953	C-1	6	5910-00-924-4231	C-6	4
5940-00-513-3264	C-7	12	5910-00-924-4231	C-8	1
5940-00-513-3264	C-12	4	5910-00-924-4231	C-11	8
5910-00-520-2793	C-20	33	5910-00-924-4231	C-22	24
5910-00-520-2793	C-20	48	5910-00-924-4231	C-23	19
5961-00-520-2797	C-20	37	5310-00-928-2690	C-20	19
5961-00-520-2797	C-23	28	5310-00-928-2690	C-22	12
5935-00-539-6932	C-12	35	5310-00-928-2690	C-24	17
5905-00-558-6770	C-3	19	5310-00-929-6395	C-1	26
5905-00-558-6770	C-4	6	5310-00-929-6395	C-7	7
5925-00-572-3809	C-12	48	5310-00-929-6395	C-11	19
5930-00-655-1514	C-12	65	5310-00-929-6395	C-12	15
6145-00-681-7849	C-14	2	5310-00-929-6395	C-20	6
6145-00-681-7849	C-14	2	5310-00-933-8118	C-1	39
6145-00-681-7849	C-14	2	5310-00-933-8118	C-11	27
6145-00-681-7849	C-14	2	5310-00-933-8118	C-12	6
6145-00-681-7849	C-15	2	5310-00-933-8118	C-22	4
6145-00-681-7849	C-15	2	5310-00-933-8118	C-24	10
6145-00-681-7849	C-15	2	5310-00-933-8119	C-1	16
5310-00-722-5998	C-1	35	5310-00-933-8119	C-12	53
5310-00-722-5998	C-5	5	5310-00-933-8119	C-22	39
5310-00-722-5998	C-7	8	5310-00-933-8120	C-12	47
5310-00-722-5998	C-20	27	5310-00-934-9748	C-1	40
5961-00-726-7836	C-4	2	5310-00-934-9748	C-11	24
5961-00-726-7836	C-5	9	5310-00-934-9748	C-12	7
5961-00-726-7836	C-6	7	5310-00-934-9759	C-1	58
5961-00-726-7836	C-10	7	5310-00-934-9759	C-12	52
5961-00-752-6121	C-3	3	5310-00-934-9761	C-12	5
5905-00-759-8896	C-11	13	5905-00-935-8543	C-11	14
5961-00-787-5305	C-8	3	5310-00-938-2013	C-22	11
5961-00-787-5305	C-9	8	5310-00-938-2013	C-24	13
5961-00-811-8373	C-7	3	5961-00-949-1440	C-6	8
5910-00-821-5215	C-6	3	5961-00-949-1440	C-9	7
5910-00-821-5215	C-23	26	3120-00-950-4504	C-12	8
5910-00-822-3767	C-7	11	5910-00-950-9873	C-23	22
5910-00-838-9421	C-6	2	5305-00-954-2724	C-20	8
5961-00-842-9609	C-10	4	5961-00-957-6865	C-3	4
5910-00-845-4780	C-22	31	5961-00-957-6865	C-11	12
5961-00-852-7549	C-9	5	5910-00-983-5388	C-23	1
5961-00-866-0476	C-4	1	5910-00-983-5388	C-23	33
5961-00-866-0476	C-6	6	5961-00-995-2310	C-9	3

NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER	NATIONAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER
5961-00-998-9314	C-23	24	5905-01-033-8420	C-8	4
5905-01-011-7614	C-4	11	5905-01-033-8430	C-10	12
5905-01-011-7614	C-6	16	5935-01-043-0629	C-14	1
5310-01-026-0814	C-22	19	5935-01-043-0629	C-15	1

PART NUMBER	FSCM	FIG NO	ITEM NO	PART NUMBER	FSCM	FIG NO	ITEM NO
A012-001	23042	C-20	42	A209-012	23042	C-20	21
A012-001	23042	C-22	13	A209-051	23042	C-20	30
A012-001	23042	C-22	32	A209-070	23042	C-12	28
A012-001	23042	C-24	19	A209-073	23042	C-22	41
A012-037	23042	C-20	38	A209-077	23042	C-22	21
A012-037	23042	C-22	26	A210-015	23042	C-22	10
A012-037	23042	C-23	5	A211-052	23042	C-12	38
A012-114	23042	C-5	10	A211-057	23042	C-24	2
A012-114	23042	C-6	5	A212-044	23042	C-21	6
A012-114	23042	C-8	2	A214-003	23042	C-21	14
A012-114	23042	C-23	3	A216-006	23042	C-20	25
A012-118	23042	C-20	35	A216-025	23042	C-20	26
A012-140	23042	C-25	9	A216-027	23042	C-20	1
A015-017	23042	C-23	2	A216-028	23042	C-20	3
A017-009	23042	C-25	16	A219-020	23042	C-21	3
A020-032	23042	C-21	4	A219-021	23042	C-21	12
A020-122	9408	C-25	1	A219-093	23042	C-24	16
A021-011	23042	C-21	18	A219-094	23042	C-24	11
A021-044	23042	C-25	2	A221-009	230402	C-20	7
A021-061	23042	C-25	6	A223-051	23042	C-20	12
A021-063	23042	C-24	24	B012-193	23042	C-20	33
A021-070	23042	C-20	4	B012-193	23042	C-20	48
A022-020-00	23042	C-25	4	B022-028	23042	C-25	10
A022-022	23042	C-25	15	B024-017	23042	C-1	25
A022-23	23042	C-25	19	B054-024-07	23042	C-18	2
A026-001	3042	C-20	14	B071-004	23042	C-12	50
A028-031	94222	C-2	2	B200-623-00	23042	B-1	21
A035-002	82142	C-22	25	B204-059	23042	C-22	20
A035-029	23042	C-23	16	B204-293	23042	C-1	15
A035-035-01	23042	C-20	36	B204-294	23042	C-1	14
A035-035-02	23015	C-20	49	B204-295	23042	C-1	13
A042-035	23042	C-1	46	B204-296	23042	C-1	12
A043-005	23042	C-12	60	B204-297	23042	C-1	11
A044-006	23042	C-21	15	B204-298	23042	C-1	10
A048-138	23042	C-12	25	B204-299	23042	C-1	9
A048-139	23042	C-12	31	B204-316	23042	C-12	56
A050-195	23042	C-1	4	B204-318	23042	C-1	33
A055-006	23042	C-22	19	B204-326	23042	C-1	56
A055-020	23042	C-21	5	B204-327	23042	C-1	22
A055-093	23042	C-25	7	B204-335	23042	C-11	1
A055-096	23042	C-25	14	B204-339	23042	C-1	53
A055-097	23042	C-25	12	B204-342	23042	C-1	20
A056-005	23042	C-21	13	B204-342-01	23042	C-1	24
A057-012-03	23042	C-21	2	B204-342-02	23042	C-1	55
A057-013	23042	C-21	9	B204-342-03	23042	C-1	30
A200-00-01	23042	C-12	1	B204-342-04	23042	C-1	29
A204-346	23042	C-1	51	B204-342-06	23042	C-1	44

PART NUMBER	FSCM	FIG NO	ITEM NO
B204-342-07	23042	C-1	54
B204-342-08	23042	C-1	43
B204-342-09	23042	C-1	48
B204-348	23042	C-19	3
B204-353	23042	C-1	42
B204-356	23042	C-7	1
B204-357	23042	C-5	1
B208-069	23042	C-9	15
B208-070	23042	C-10	14
B208-071	23042	C-3	26
B208-072	23042	C-6	19
B208-073	23042	C-18	5
B208-074	23042	C-4	26
B208-075	23042	C-8	15
B208-080	23042	C-23	34
B211-054	23042	C-22	3
B211-055	23042	C-19	9
CK60AW102M	81349	C-6	2
CK60AX471K	81349	C-6	3
CK60AX471K	81349	C-23	26
CK60BX100K	81349	C-23	1
CK60BX100K	81349	C-23	33
CK60BX151K	81349	C-7	11
CK60BX220K	81349	C-23	22
CK60BX3R3K	81349	C-22	7
CK60BX3R3K	81349	C-23	23
CK60BX330K	81349	C-22	31
CK61AW222M	81349	C-6	1
CW60AW102M	81349	C-3	1
C061-016	23042	C-12	51
C200-262	23042	C-1	1
C204-328	23042	C-12	17
C204-334	23042	C-22	22
C204-340	23042	C-12	49
C204-347	23042	C-12	58
C211-049	23042	C-2	1
C215-017	23042	C-20	31
C219-091	23042	C-20	9
C223-053	23042	C-22	15
D204-319	23042	C-1	37
D204-320	23042	C-1	6
D204-321	23042	C-1	7
D204-322	23042	C-1	8
D204-323	23042	C-1	45
D204-324	23042	C-1	41
D204-325	23042	C-1	32
D204-329	23042	C-1	34
D204-333	23042	C-22	1
D204-344	23042	C-19	6
D204-345	23042	C-19	8
D204-358	23042	C-12	59
F1152	5397	C-7	2
GS3CT	6229	C-12	24
H05003	73293	C-24	12
JAN1N3016B	81349	C-9	4
JAN1N3287	81349	C-7	3
JAN1N3611	81349	C-3	4
JAN1N3611	81349	C-11	12
JAN1N3613	81349	C-11	10
JAN1N752A	81349	C-9	3
JAN1N753A	81349	C-3	3
JAN1N754A	81349	C-9	5
JAN1N966B	81349	C-10	4
JAN2N2905	81349	C-9	7
JAN2N2905A	81349	C-6	8
JAN2N3042B	81349	C-10	6
JAN2N3054	81439	C-12	3
JAN2N3440	81349	C-4	2
JAN2N3440	81349	C-5	9
JAN2N3440	81349	C-6	7
JAN2N3440	81349	C-10	7
JAN2N3738	81349	C-12	16
JAN2N4900	81439	C-12	2
JAN2N718A	81349	C-8	3
JAN2N718A	81349	C-9	8
JAN3020B	81349	C-1	27
JAN718A	81349	C-3	5
JAN718A	81349	C-6	9
MS15195-805	96906	C-12	20
MS15795-805	96906	C-1	35
MS15795-805	96906	C-5	5
MS15795-805	96906	C-7	8
MS15795-805	96906	C-20	27
MS3057-6A	96906	C-16	4
MS3057-67	96906	C-17	2
MS3100A-145-1P	96906	C-17	1
MS3102A145-	96906	C-12	41
MS3106A-145-1S	96906	C-16	5
MS35058-22	81349	C-12	65
MS351957-13	96906	C-12	27
MS351957-13	96906	C-18	4
MS351957-14	96906	C-11	26

PART NUMBER	FSCM	FIG NO	ITEM NO
MS35195/-14	96906	C-12	39
MS35195/-15	96906	C-12	12
MS35195/-17	96906	C-12	43
MS35195/-18	96906	C-12	44
MS35195/-26	96906	C-5	4
MS351957-26	96906	C-7	6
MS351957-28	96906	C-1	18
MS351957-28	96906	C-11	18
MS351957-28	96906	C-12	13
MS351957-29	96906	C-12	63
MS35195/-43	96906	C-1	17
MS35195/-43	96906	C-12	57
MS35195/-46	96906	C-1	57
MS35233-15	23042	C-1	38
MS35338-134	96906	C-20	19
MS35338-134	96906	C-22	12
MS35338-134	96906	C-24	17
MS35338-135	96906	C-1	39
MS35338-135	96906	C-11	27
MS35338-135	96906	C-12	6
MS35338-135	96906	C-22	4
MS35338-135	96906	C-24	10
MS35338-136	96906	C-1	26
MS35338-136	96906	C-7	7
MS35338-136	96906	C-11	19
MS35338-136	96906	C-12	15
MS35338-136	96906	C-20	6
MS35338-137	96906	C-1	16
MS35338-137	96906	C-12	53
MS35338-137	96906	C-22	39
MS35338-138	96906	C-12	47
MS35639-246	96906	C-19	4
MS35639-79	96906	C-193	5
MS35649-224	96906	C-22	11
MS35649-224	96906	C-24	13
MS35649-244	96906	C-1	40
MS35649-244	96906	C-11	24
MS35649-244	96906	C-12	7
MS35649-244	96906	C-18	6
MS35649-264	96906	C-12	5
MS35649-284	96906	C-1	58
MS35649-284	96906	C-12	52
MS51957-12	96906	C-22	5
MS51957-13	96906	C-19	12
MS51957-13	96906	C-24	9
MS51957-14	96906	C-22	18
MS51957-14	96906	C-24	1
MS51957-2	96906	C-20	18
MS51957-2	96906	C-22	17
MS51957-25	96906	C-20	22
MS51957-29	96906	C-20	5
MS51957-29	96906	C-20	28
MS51957-31	96906	C-20	13
MS51957-41	96906	C-22	38
MS51957-7	96906	C-24	18
MS77070-2	96906	C-7	12
MS77070-2	96906	C-12	4
MS9003/01-2981	81349	C-9	2
MS9760-14	96906	C-12	42
M17/84-RG-223	81349	C-14	2
M17/84-RG-223	81349	C-14	2
M17/84-RG223	81349	C-14	2
M17/84-RG223	81349	C-14	2
M17/84-RG223	81349	C-15	2
M17/84-RG223	81349	C-15	2
M17/84-RG223	81349	C-15	2
M39012/16-0101	81349	C-14	1
M39012/16-0101	81349	C-15	1
M39014/02-1332	81349	C-11	11
M39015-2-	81349	C-10	12
M39015-2-007PR	81349	C-8	4
M39015/2-004PR	81349	C-4	12
M39015/2-004PR	81349	C-9	12
M39015/2-005PR	81349	C-3	19
M39015/2-005PR	81349	C-4	6
M39015/2-006PR	81349	C-4	11
M39015/2-006PR	81349	C-6	16
NAS1081C08D4N	80295	C-20	8
NPN	23042	C-24	23
N5111	8863	C-12	8
RCR0G391JS	81349	C-12	32
RCR0/G100JS	81349	C-23	14
RCR0/G101JS	81349	C-8	7
RCR0/G101JS	81349	C-20	46
RCR0/G101JS	81349	C-23	10
RCR0/G102JS	81349	C-8	5
RCR0/G102JS	81349	C-24	5
RCR0/G103JS	81349	C-8	8
RCR0/G103JS	81349	C-22	30
RCR07G103JS	81349	C-23	18
RCR07G105JS	81349	C-7	10
RCR07G105JS	81349	C-8	13

PART NUMBER	FSCM	FIG NO	ITEM NO	PART NUMBER	FSCM	FIG NO	ITEM NO
RCR07G120JS	81349	C-23	25	RCR20G223JS	81349	C-4	16
RCR07G152JS	81349	C-23	6	RCR20G223JS	81349	B-6	14
RCR07G153JS	81349	C-12	30	RCR20G224JS	81349	C-3	8
RCR07G220JS	81349	C-23	7	RCR20G224JS	81349	C-12	29
RCR07G221JS	81349	C-8	12	RCR20G273JS	81349	C-4	17
RCR07G221JS	81349	C-23	13	RCR20G330JS	81349	C-11	14
RCR07G221JS	81349	C-24	4	RCR20G333JS	81349	C-3	16
RCR07G222JS	81349	C-20	44	RCR20G333JS	81349	C-4	18
RCR07G224JS	81349	C-8	6	RCR20G333JS	81349	C-6	11
RCR07G225JS	81349	C-7	4	RCR20G334JS	81349	C-3	9
RCR07G271JS	81349	C-8	9	RCR20G334JS	81349	C-4	24
RCR07G271JS	81349	C-22	29	RCR20G390JS	81349	C-23	31
RCR07G272JS	81349	C-24	6	RCR20G472JS	81349	C-6	15
RCR07G331JS	81349	C-8	11	RCR20G473JS	81349	C-3	15
RCR07G332JS	81349	C-22	28	RCR20G473JS	81349	C-4	19
RCR07G332JS	81349	C-23	9	RCR20G473JS	81349	C-12	36
RCR07G4R7JS	81349	C-23	27	RCR20G501JS	81349	C-22	6
RCR07G470JS	81349	C-20	39	RCR20G510JS	81349	B-22	35
RCR07G470JS	81349	C-23	30	RCR20G510JS	81349	C-23	32
RCR07G471JS	81349	C-22	33	RCR20G562JS	81349	C-3	21
RCR07G471JS	81349	C-25	8	RCR20G562JS	81349	C-6	13
RCR07G472JS	81349	C-8	10	RCR20G563JS	81349	C-3	20
RCR07G472JS	81349	C-23	15	RCR20G563JS	81349	C-4	20
RCR07G560JS	81349	C-24	7	RCR20G564JS	81349	C-3	10
RCR07G561JS	81349	C-23	11	RCR20G564JS	81349	C-4	15
RCR07G561JS	81349	C-23	12	RCR20G681JS	81349	C-6	10
RCR07G681JS	81349	C-23	8	RCR20G683JS	81349	C-3	17
RCR07G682JS	81349	C-20	45	RCR20G822JS	81349	B-3	24
RCR07G752JS	81349	C-23	17	RCR20G822JS	81349	C-6	12
RCR07G822JS	81349	C-23	4	RCR20G823JS	81349	C-4	21
RCR20G100JS	81349	C-19	10	RCR32G102JS	81349	C-4	10
RCR20G101JS	81349	C-20	43	RCR32G132JS	81349	C-4	9
RCR20G101JS	81349	C-22	9	RCR32G152JS	81349	C-9	13
RCR20G102JS	81349	C-3	18	RCR32G153JS	81349	C-11	7
RCR20G102JS	81349	C-20	47	RCR32G163JS	81349	C-4	5
RCR20G103JS	81349	C-3	7	RCR32G183JS	81349	C-10	8
RCR20G103JS	81349	C-11	16	RCR32G202JS	81349	C-3	6
RCR20G103JS	81349	C-22	16	RCR32G222JS	81349	C-9	9
RCR20G104JS	81349	C-3	12	RCR32G223JS	81349	C-10	9
RCR20G122JS	81349	C-3	23	RCR32G224JS	81349	C-4	14
RCR20G124JS	81349	C-4	22	RCR32G271JS	81349	C-23	20
RCR20G151JS	81349	C-20	32	RCR32G272JS	81349	C-4	7
RCR20G152JS	81349	C-3	14	RCR32G332JS	81349	C-9	11
RCR20G184JS	81349	C-4	23	RCR32G392JS	81349	C-4	3
RCR20G220JS	81349	C-23	29	RCR32G470JS	81349	C-11	2
RCR20G223JS	81349	C-3	22	RCR32G472JS	81349	C-4	4

PART NUMBER	FSCM	FIG NO	ITEM NO
RCR32G562JS	81349	C-9	10
RCR32G820JS	81349	C-11	6
RCR42G104JS	81349	C-11	13
RCR42G121JS	81349	C-11	15
RCR42G221JS	81349	C-23	21
RCR42G272JS	81349	C-11	9
RCR42G473JS	81349	C-10	10
RCR42G683JS	81349	C-4	8
RCR42G683JS	81349	C-10	11
RC20GF472J	81349	C-4	13
RC442G102JS	81349	C-5	8
RF5070	9408	C-15	3
RJR24CP105P	81349	C-3	11
RT22CP503	81349	C-3	13
RT22C2P50	81349	C-6	17
R204-311	23042	C-1	3
TA0UFPORM20PCT	91418	C-8	1
TA01UFPORM20PCT	91418	C-6	4
TA01UFPORM20PCT	91418	C-11	8
TA01UFPORM20PCT	91418	C-22	24
TA01UFPORM20PCT	91418	C-23	19
UC-625/U	9408	C-22	34
UG625/U	9408	C-24	14
UP131M		C-16	1
010-013	23042	C-20	23
011-005	23042	C-12	67
011-006	23042	C-12	68
012-002	1121	C-24	8
012-179	23042	C-10	1
012-180	23042	C-10	2
012-181	23042	C-10	3
012-184	56289	C-5	2
012-185	23042	C-11	5
012-186	23042	C-11	4
012-187	23042	C-11	3
012-189	23042	C-12	18
012-190	23042	C-12	54
012-210	95121	C-22	36
012-211	31893	C-25	3
015-018	72982	C-22	23
017-022	6229	C-19	1
017-022	23042	C-12	37
017-023	23042	C-11	25
017-024	23042	C-11	22
017-026	23042	C-1	36
017-026	23042	C-12	19
017-026	23042	C-12	10
020-006	23042	C-12	10
020-119	9408	C-25	11
021-016	7700	C-20	29
021-037	7700	C-25	5
0218-034	23042	C-12	69
025-016	73293	C-20	41
025-041	93332	C-25	18
025-057	23042	C-22	8
025-058	23042	C-24	3
028-006	23042	C-20	2
028-032	94222	C-2	3
031-007	23042	C-12	23
031-012	23042	C-12	34
032-006	23042	C-12	45
035-004	82142	C-20	40
041-005	23042	C-12	11
041-017	23042	C-25	13
042-023	23042	C-12	14
042-039	23042	C-1	47
046-332	23042	C-13	1
047-286	3888	C-24	25
047-358	23042	C-25	17
048-095	1121	C-20	24
048-134	23042	C-12	21
048-135	23042	C-12	22
048-136	23042	C-12	64
048-137	23042	C-12	61
050-065	73734	C-21	11
050-129	73734	C-21	7
050-130	73734	C-21	19
050-131	73734	C-21	1
050-132	73734	C-21	16
050-141	73734	C-21	10
050-181	23042	C-20	15
050-238	23042	C-1	5
050-246	23042	C-1	19
050-264	23042	C-12	40
050-268	73734	C-21	8
050-282	23042	C-11	23
050-288	73734	C-20	16
050-294	23042	C-11	20
050-295	23042	C-18	3
050-305	73734	C-20	10
055-009	23042	C-22	40
055-013	73734	C-5	6
055-022	23042	C-7	9
055-022	23042	C-11	21
055-022	13103	C-3	27
055-120	13103	C-3	27

PART NUMBER	FSCM	FIG NO	ITEM NO
055-120	23042	C-6	20
055-120	23042	C-8	16
055-120	23042	C-9	16
055-121	13103	C-4	27
055-121	23042	C-6	21
055-121	23042	C-9	17
055-121	23042	C-10	15
055-124	23042	C-12	46
055-125	6540	C-20	11
055-126	6540	C-20	17
055-127	73734	C-19	2
057-064	23042	C-12	48
059-002	23042	C-18	1
059-004	23042	C-12	33
059-005	73734	C-19	11
059-006	73734	C-5	7
059-014	23042	C-22	37
059-014	23042	C-24	21
059-015	23042	C-6	18
059-015	23042	C-8	14
059-015	23042	C-9	14
059-015	23042	C-10	13
059-015	80112	C-3	25
059-015	80112	C-4	25
059-018	23042	C-11	28
059-019	73734	C-24	20
059-028	23042	C-12	55
059-034	73734	C-20	20
059-034	73734	C-22	14
059-042	23042	C-13	2
062-042	23042	C-22	27
062-051	23042	C-20	37
062-051	23042	C-23	28
064-006	88236	C-20	34
1C1B	23480	C-1	50
1E2B	23480	C-1	52
1N457	81349	C-4	1
1N457	81349	C-6	6
1N1457	81349	C-9	6
1N457	81349	C-10	5
1500224X9050A2		C-3	2
2N2BC	23480	C-1	49
2N4429	80131	C-23	24
2P2B	23480	C-1	23
220-019	23042	C-12	62
223-017	7700	C-21	17
223-023	7700	C-19	7
223-027	7700	C-22	2
39D107F150FP4	56289	C-11	17
438742-320	11237	C-12	66
438750-320	11237	C-12	26
5007	94375	C-24	22
502-4	79963	C-12	9
5069	94375	C-12	35
82567SR	11357	C-1	2

By Order of the Secretary of the Army:

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General, United States Army
Chief of Staff

Official:

J. C. PENN INGTON
Major General, United States Army
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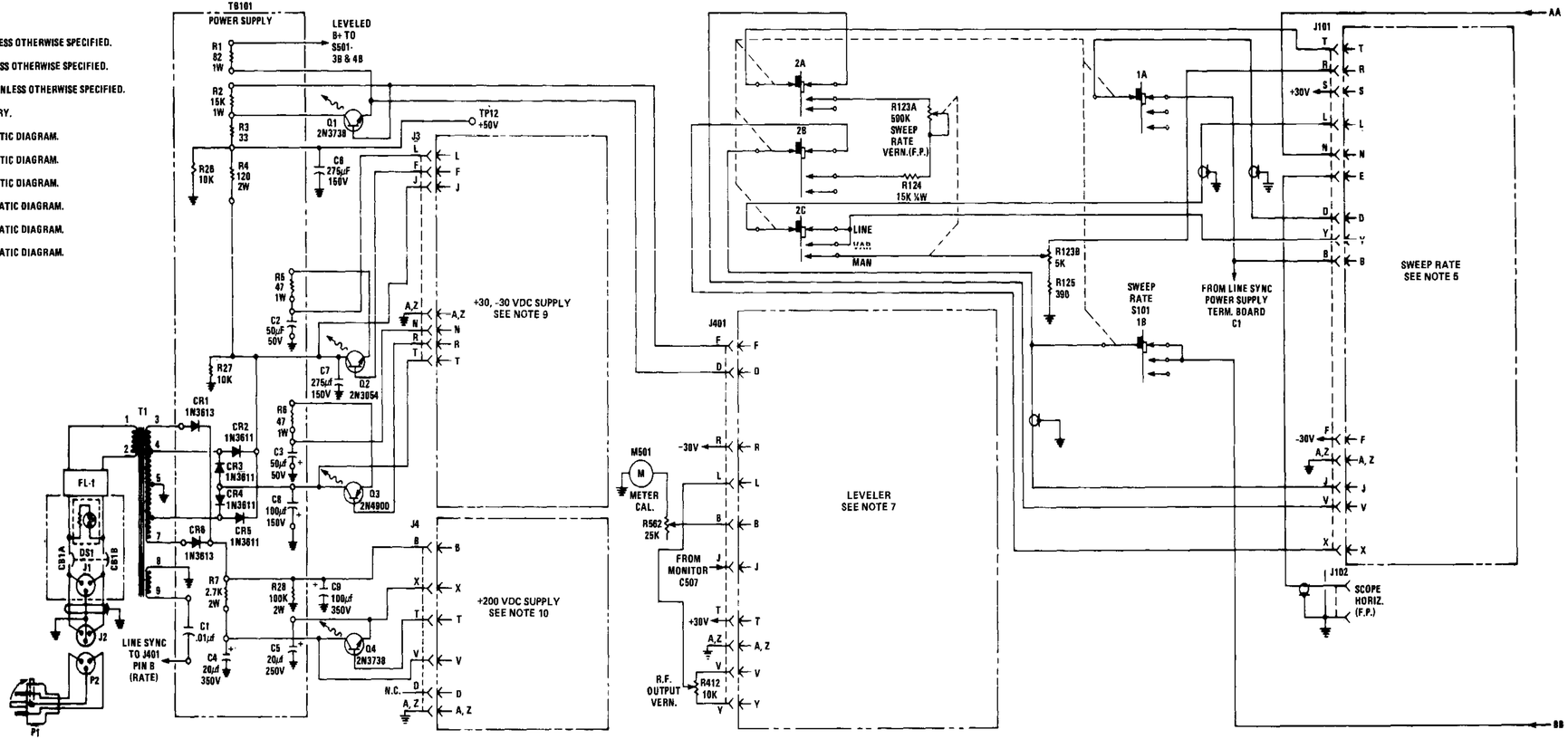
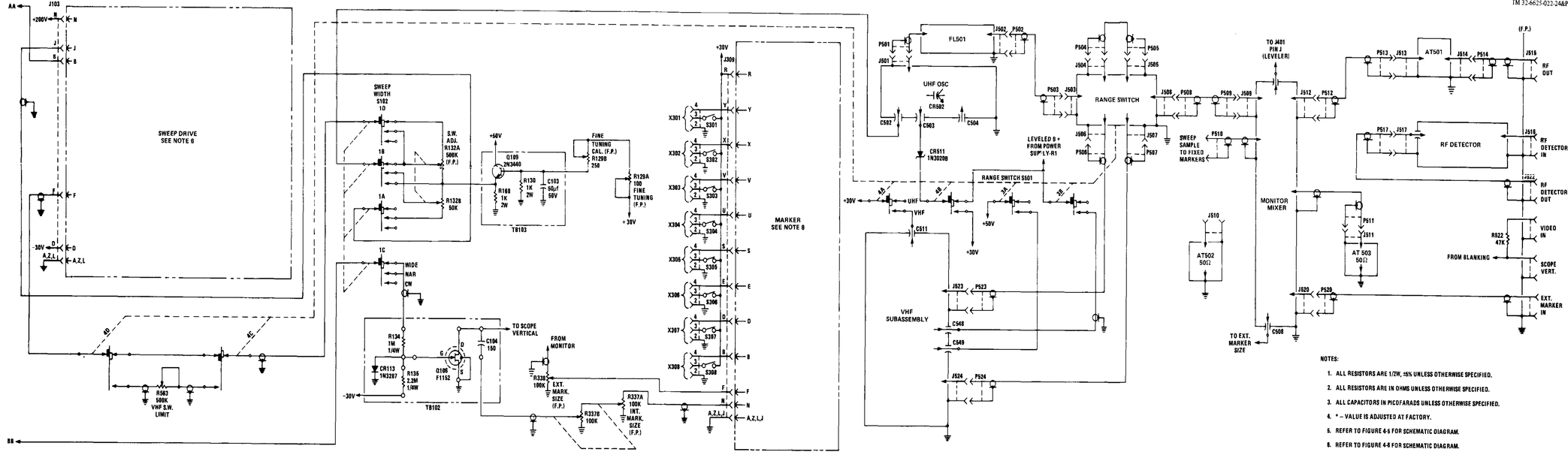
NOTES:

1. ALL RESISTORS ARE 1/2W, ±5% UNLESS OTHERWISE SPECIFIED.
2. ALL RESISTORS ARE IN OHMS UNLESS OTHERWISE SPECIFIED.
3. ALL CAPACITORS IN PICOFARADS UNLESS OTHERWISE SPECIFIED.
4. * – VALUE IS ADJUSTED AT FACTORY.
5. REFER TO FIGURE 4-5 FOR SCHEMATIC DIAGRAM.
6. REFER TO FIGURE 4-6 FOR SCHEMATIC DIAGRAM.
7. REFER TO FIGURE 4-7 FOR SCHEMATIC DIAGRAM.
8. REFER TO FIGURE 4-8 FOR SCHEMATIC DIAGRAM.
9. REFER TO FIGURE 4-9 FOR SCHEMATIC DIAGRAM.
10. REFER TO FIGURE 4-10 FOR SCHEMATIC DIAGRAM.



FO1 Main Schematic (Sheet 1 of 2)



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FO1 Main Schematic (Sheet 2 of 2)

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