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DEPARTMENT OF THE ARMY TECHNICAL MANUAL

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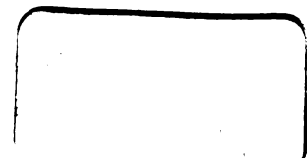
**Direct Support, General Support, and Depot Maintenance Manual
Including Repair Parts and Special Tools Lists**

**RADIO SETS AN/PRC-74B AND AN/PRC-74C,
POWER SUPPLIES PP-4514/PRC-74 AND PP-4514A/PRC-74
AND BATTERY BOXES CY-6121/PRC-74, CY-6314/PRC-74
AND CY-6314A/PRC-74**

This copy is a reprint which includes current pages from Changes 1 through 5.

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JULY 1968**

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CHANGE

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 15 February 1988

No. 5

**Direct Support, General Support
and Depot Maintenance Manual
Including Repair Parts and Special Tools Lists**

**RADIO SETS AN/PRC-74B (NSN 5820-00-935-0030)
AND AN/PRC-74C (NSN 5820-00-177-1641)
POWER SUPPLIES PP-4514/PRC-74 (NSN 5820-00-942-0821)
AND PP-4514A/PRC-74 (NSN 5820-00-177-4581) AND
BATTERY BOXES CY-6121/PRC-74 (NSN 5820-00-908-3127)
CY-6314/PRC-74 (NSN 5820-00-935-0382)
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WASHINGTON, DC, 19 August 1981

CHANGE }
No. 4 }

**Direct Support, General Support and Depot Maintenance Manual
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS
RADIO SETS AN/PRC-74B (NSN 5820-00-935-0030)
AND AN/PRC-74C (NSN 5820-00-177-1641)
POWER SUPPLIES PP-4514/PRC-74 (NSN 5820-00-942-0821)
AND PP-4514A/PRC-74 (NSN 5820-00-177-4581)
AND BATTERY BOXES CY-6121/PRC-74 (NSN 5820-00-908-3127)
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i and ii	i and ii

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The Adjutant General

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

Distribution:

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5

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

1

DO NOT TRY TO PULL OR GRAB THE INDIVIDUAL

2

IF POSSIBLE TURN OFF THE ELECTRICAL POWER

3

IF YOU CANNOT TURN OFF THE ELECTRICAL POWER, PULL, PUSH, OR LIFT THE PERSON TO SAFETY USING A WOODEN POLE OR A ROPE OR SOME OTHER INSULATING MATERIAL

4

SEND FOR HELP AS SOON AS POSSIBLE

5

AFTER THE INJURED PERSON IS FREE OF CONTACT WITH THE SOURCE OF ELECTRICAL SHOCK, MOVE THE PERSON A SHORT DISTANCE AWAY AND IMMEDIATELY START ARTIFICIAL RESUSCITATION

PRINCIPLES OF CORROSIVE CHEMICAL FIRST-AID

1. In the event of contact with the eyes, *immediately* flush the eyes with water and continue to flush for 15 minutes. *The first few seconds after contact are critical and immediate flushing of the eyes may prevent permanent damage.*
An eyewash fountain is preferred; however, an eyewash hose of any other source of water should be used in an emergency.
Alkali (base) burns are usually more serious than acid burns.
2. Strong chemicals burn the skin rapidly. There is no time to waste. Begin flushing the area with water immediately. Remove and discard clothing, including socks and shoes (obtain other clothes and shoes). Continue to flood the area, while clothing is being removed.
3. The precautionary warning on the produce label should be consulted for full first-aid information. Provide the label information to the attending physician.
4. Neutralizers and solvents (alcohol, etc.) should not be used by the first aider. The spread of skin absorbing corrosive poison, like phenol, can result in death. (Don't depend upon spilled chemicals to evaporate from your clothes. Exposure of skin can *kill* you).

WARNING
GROUND THE INSTRUMENT

To minimize shock hazard, the instrument chassis and cabinet must be connected to an electrical ground. The instrument is equipped with a three conductor ac power cable. The power cable must either be plugged into an approved three contact electrical outlet or used with a three contact to two contact adapter with the grounding wire (green) firmly connected to an electrical ground (safety ground) at the power outlet. The power jack and mating plug of the power cable must meet International Electrotechnical Commission (IEC) safety standards.

WARNING
DO NOT SERVICE OR ADJUST ALONE

Do not attempt internal service or adjustment unless another person, capable of rendering first-aid and resuscitation is present.

WARNING
SAFETY PRECAUTION

A periodic review of safety precautions in TB-385-4, Safety Precautions for Maintenance of Electrical/Electronic Equipment, is recommended. When the equipment is operated with covers removed, **DO NOT TOUCH** exposed connections or components. **MAKE CERTAIN** you are not grounded when making connections or adjusting components inside the test instrument.

WARNING
GASES GENERATED BY CHARGING BATTERIES

Extreme caution must be taken when making connections for the purpose of testing, charging, or repairing batteries that are charging or have been recently removed from charging. Such batteries probably will be gassing and the slightest spark, caused by a short circuit, can cause the battery to explode. Personnel working with these batteries are urged to wear a pair of tight fitting goggles, or better still, the newer types of plastic masks which covers the entire face. Open frames, cigarettes, radio transmitters, generating sets, open-cage electric motors, or any other type of equipment that may cause sparks, must be kept clear of the charging line.

WARNING
BB-418/U
NICKEL-CADMIUM BATTERIES

The electrolyte used in nickel-cadmium batteries contains potassium hydroxide (KOH), which is a caustic agent. Serious and deep burns of body tissue will result if the electrolyte comes in contact with the eyes or any part of the body. Use rubber gloves, rubber apron, and protective goggles when handling the electrolyte. If accidental contact with the electrolyte is made, use **ONLY** clean water and immediately (seconds count) flush contaminated area. Continue flushing with large quantities of clean water. Seek medical attention without delay. Inform medical personnel that you have been contaminated with potassium hydroxide (KOH).

WARNING
BA-5598/U
LITHIUM BATTERIES

A lithium-sulfur dioxide (Li-SO₂) battery used with the equipment contains pressurized sulfur dioxide (SO₂) gas. The gas is toxic, and the battery **MUST NOT** be abused in any way which may cause the battery to rupture.

WARNING
DO NOT heat, short circuit, crush, puncture, mutilate, or disassemble batteries.

WARNING

DO NOT USE any battery which shows signs of damage, such as bulging, swelling, disfigurement, brown liquid in the plastic wrap, a swollen plastic wrap, etc.

WARNING

DO NOT test Li-SO₂ batteries for capacity.

WARNING

DO NOT recharge Li-SO₂ batteries.

WARNING

DO NOT use water to extinguish Li-SO₂ battery fires if a shock hazard exists due to high voltage electrical equipment in the immediate vicinity (i.e., greater than 30 volts, alternating current (ac) or direct current (dc)).

WARNING

If the battery compartment becomes hot to the touch, if you hear a hissing sound (i.e., battery venting), or smell irritating sulfur dioxide gas, IMMEDIATELY Turn Off the equipment. Remove the equipment to a well ventilated area or leave the area.

WARNING

DO NOT use a Halon type fire extinguisher on a lithium battery fire.

WARNING

In the event of a fire, near a lithium battery(ies), rapid cooling of the battery(ies) is important. Use a carbon dioxide (CO₂) extinguisher. Control of the equipment fire, and cooling, may prevent the battery from venting and potentially exposing lithium metal. In the event that lithium metal becomes involved in fire, the use of a graphite based Class D fire extinguisher is recommended, such as Lith-X or MET-L-X.

WARNING

DO NOT store lithium batteries with other hazardous materials and keep them away from open flame or heat.

WARNING

Remove the Magnesium Battery from Battery Box CY-6314()/PRC-74 when the RT-794()/PRC is not being used. This is required to insure that Hydrogen Gas (a by-product of Magnesium Battery, BA-4386/U discharge action) does not accumulate. Personnel may be injured and equipment damaged if the gas explodes. You can tell the difference between Magnesium Battery, BA-4386, and Lithium Battery, BA-5598, by looking at their size. The Lithium Battery is half the size (smaller than) the Magnesium Battery.

CHANGE }
No. 3 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 13 October 1980

Direct Support, General Support, and Depot Maintenance Manual
Including Repair Parts and Special Tools Lists
RADIO SETS AN/PRC-74B (NSN 5820-00-935-0030)
AND AN/PRC-74C (NSN 5820-00-177-1641)
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AND BATTERY BOXES CY-6121/PRC-74 (NSN 5820-00-908-3127),
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Remove

1-1 and 1-2
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3-3 and 3-4
3-7 through 3-12
4-5 and 4-6
4.1-1 and 4.1-2

Insert

1-1, 1-2, and 1-2.1
2-3 through 2-6
3-3 and 3-4
3-7 through 3-12
4-5 and 4-6
4.1-1 and 4.1-2

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**Direct Support, General Support, and
Depot Maintenance Manual Including Repair
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and AN/PRC-74C (NSN 5820-00-177-1641)

POWER SUPPLIES PP-4514/PRC-74 AND

PP-4514A/PRC-74 AND BATTERY BOXES

CY-6121/PRC-74, CY-6314/PRC-74, AND

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i	i through iii
B-1 through B-122	B-1 through B-238
C-1 through C-37	None
D-1 through D-7	None
E-1 through E-4	None
F-1 through F-83	None

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**DIRECT SUPPORT, GENERAL SUPPORT, AND
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PARTS AND SPECIAL TOOLS LISTS
RADIO SETS AN/PRC-74B (NSN 5820-00-935-0030)
AND AN/PRC-74C (NSN 5820-00-177-1641)
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AND PP-4514A/PRC-74 (NSN 5820-00-177-4581) AND
BATTERY BOXES CY-6121/PRC-74 (NSN 5820-00-908-3127)
CY-6314/PRC-74 (NSN 5820-00-935-0382)
AND CY-6314A/PRC-74 (NSN 5820-00-156-3934)**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-MP, Fort Monmouth, NJ 07703-5000.

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CHAPTER 1

FUNCTIONING OF RADIO SET

Section I. SYSTEM FUNCTION

1-1. Scope

a. This manual contains instructions for direct support (DS), general support (GS), and depot maintenance of Radio Set AN/PRC-74B (radio set) and Radio Set AN/PRC-74C (radio set). Receiver-Transmitter Radio RT-794B/PRC-74 (rt unit) and Receiver-Transmitter Radio RT-794C/PRC-74 (rt unit) contain all electronic circuits of the respective radio sets. Unless otherwise specified, references in this manual to AN/PRC-74B and RT-794B/PRC-74 apply to AN/PRC-74C and RT-794C/PRC-74 respectively. With the aid of this manual, direct support, general support, and depot maintenance personnel can troubleshoot, test, align, and repair the AN/PRC-74B. A list of tools, materials, and test equipment for direct support, general support, and depot maintenance is included.

b. The parts location illustrations in this manual have abbreviated reference designations, except for intermodule connections and adjustable parts. To obtain the complete designation, add the numbers in the chart below to the numbers on the illustrations. For example, Q4 in figure 2-6 becomes Q204. Reference designations for Power Supply PP-4514/PRC-74 are complete as shown in the figures. Unless otherwise specified, references in this manual to Power Supply PP-4514/PRC-74 apply to Power Supply PP-4514A/PRC-74.

<i>Figure No.</i>	<i>Add to reference designations</i>
2-6	200
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	(Add 600 to only those that are not 3-digit numbers and 6000 to 3-digit numbers beginning with 1)
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3-10	700
3-11	700

<i>Figure No.</i>	<i>Add to reference designations</i>
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4.1-4	800
4.1-5	800
4.1-8	300
4.1-9	300

1-2. Consolidated Index of Army Publications and Blank Forms

Refer to the latest issue of DA Pam 25-30 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

1-2.1. Reporting Equipment Improvement Recommendations (EIRs)

a. *Reports of Maintenance and Unsatisfactory Equipment.* Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, as contained in Maintenance Management Update.

b. *Report of Packaging and Handling Deficiencies.* Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73B/AFR 400-54/MCO 4430.3H.

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

1-2.3. Reporting Equipment Improvement Recommendations (EIRs)

If your equipment 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 the design. Put it on an SF 368 (Quality Deficiency Report). Mail it to

Commander, US Army Communications-Electronics
Command and Fort Monmouth, ATTN: AMSEL-PA-

MA-D, Fort Monmouth, New Jersey 07703-5000.
We'll send you a reply.

Section II. GENERAL FUNCTION

1-3. Introduction

a. This section describes the general functional operation for the radio set. It is divided into block

diagram descriptions of the transmit and receive modes of operation.

b. An interconnection diagram of Radio

AN/PRC-74B is shown in figure 6-1. The modules and chassis-mounted circuits of the radio set serve dual purposes by operating in both the receive and transmit operational modes. Mode selection within the radio set is accomplished by transmit-receive control relays mounted in each module. These relays normally connect the radio set modules and circuits to a receive configuration, with signal flowing left-to-right from the antenna to the headset (A, fig. 6-2). When a transmit mode is selected, the transmit-receive control relays interconnect the transmit portions of the modules and circuits. During this time, signal flow is left-to-right from the telegraph key, automatic Keyer KY-468/GRA-71 (automatic keyer), or the microphone to the antenna (B, figure 6-2).

1-4. Receive Mode of Operation

a. General. The function of the radio set when connected for the receive mode of operation, as shown in A, figure 6-2, is to receive a radiofrequency (RF) signal in the high frequency range from 2 megacycles (mc) to 17,999 mc; to heterodyne the RF signal with a locally generated synthesizer signal that is 1.75 mc above the input frequency; to convert the RF into a 1.75-mc intermediate frequency (IF); to remove the voice or telegraph intelligence from the IF; and to apply the intelligence to a headset. Two secondary modes may be utilized when the radio set is in the receive mode. The secondary modes are operate and calibrate. The operate secondary mode is used for normal communication operations. The calibrate secondary mode provides a means of periodically calibrating the tuning circuits for optimum performance.

b. Receive-Operate. When the receive mode has been selected and the radio set is in the operate condition, the RF input from the antenna is connected to the RF module through the power amplifier module. The power amplifier module provides the proper load for the RF input and is tuned for maximum RF signal reception. The RF module, which operates in conjunction with the synthesizer module for the heterodyning process, consists of RF

tuning, synthesizer tuning, RF amplification, and mixing circuits. The synthesizer module consists of four step oscillators that are selected by front panel controls. The oscillator output frequencies are selected to produce local oscillations 1.75 mc higher than the RF input. The synthesizer output is applied to the RF module and is heterodyned with the tuned RF input. The resulting 1.75-mc difference output of the RF module is the intermediate frequency. The RF gain of the radio set is controlled by a gain control circuit that applies an output to the RF module. The MC (MHz) step frequency selector switch of the synthesizer is geared to band switches within the RF module so that the proper RF bands of operation are selected when the synthesizer frequency is changed. The 1,750-kilocycle (kc) lower side-band (lsb) IF output of the RF module is supplied to the IF audio module. The IF audio module receives a 1,750-kc signal from the frequency generator module. The 1,750-kc signal in the frequency generator is produced by a highly stable, free-running crystal oscillator. The 1,750-kc signals are applied to a demodulator circuit that removes the audio intelligence in the IF audio module. The audio signal output is then amplified and supplied to the headset. The IF gain of the IF audio module is controlled by an IF gain input from the gain control circuits.

c. Receive-Calibrate. The calibrate secondary receive mode of operation is initiated by pressing the PUSH TO CALIBRATE switch on the radio set front panel. When the switch is pressed, a 12-volt calibrate input is applied to the power amplifier, synthesizer, frequency generator, and IF audio modules. The 12-volt calibrate signal energizes circuits in these modules which allow the operator to calibrate the radio set tuning circuits. In the synthesizer module, the 1-kc step selection circuits are effectively disabled so that the synthesizer output will be incremented in 10-kc steps. In the power amplifier module, the 12-volt calibrate signal disables the RF output to the RF module. To replace the RF output of the power amplifier module, a 10-kc calibration signal is applied to the RF module by the frequency generator module. The 10-kc calibration signal

and the frequency synthesizer module output are then heterodyned by the RF module to obtain a difference frequency, which is the 1,750-kc IF. The front panel CLARIFY tuning control, which is enabled by the PUSH TO CALIBRATE switch, is adjusted so that the 1,750-kc output of the RF module and the 1,750-kc frequency generator module output produce a zero beat, which is monitored in the headset. The IF audio module which compares the two intermediate frequencies is switched to the calibrate mode to eliminate a crystal filter network that is used in normal operation. After the zero beat has been obtained, the PUSH TO CALIBRATE switch is released to remove the calibration circuits and to return the radio set to a receiver-operate condition.

d. Receive Mode Power Source. During the receive mode, the power supply module of the radio set supplies three dc operating voltages to the system. The power supply module accepts 12 volts from an external power source and produces a +9-volt enable, +12-volt receive, and +12-volts for the PUSH TO CALIBRATE switch

1-5. Transmit Mode of Operation

a. General. The function of the radio set when connected in the transmit mode of operation as shown in B, figure 6-2, is to receive audio signals from a microphone or interrupted audio tones enabled by a telegraph key or automatic Keyer KY-468/GRA-71, to modulate the 1,750-kc if. with the audio intelligence, and to multiply the IF up to a high frequency RF signal between 2mc and 17.999 mc. The multiplied signal is then amplified and coupled to the antenna for transmission. The +12-volt calibrate circuits cannot be activated when the radio set is in a transmit configuration.

b. Transmit Operation. When the transmit mode of operation is selected, the receive-transmit control relays in the radio set are energized, causing the transmit circuits to be active and the receive circuits to be inactive. The signal flow to the modules begins at the telegraph key, automatic Keyer KY-468/GRA-71, or microphone. When the telegraph key or automatic Keyer KY-468/GRA-71 is used, a

2,000-cycle-per-second (cps) audio tone is connected to the audio circuits in the IF audio module each time the telegraph key is pressed or when the automatic keyer is keying. The audio signals are supplied back to the headset so that the operator may monitor the voice or telegraph intelligence. The audio signal is also applied to a balanced mixer circuit in the IF audio module and is modulated with the 1,750-kc output of the frequency generator module. Both sidebands of the 1,750-kc are amplified, and then the upper sideband is suppressed while the lower sideband is supplied to the RF module. Gain of the IF amplifier within the IF audio module is controlled by the chassis-mounted gain control circuits. A continuous wave (cw) hold control output for holding the radio set control relays in a transmit condition during the time between the characters of a manual telegraph message is routed to the power supply module by the IF audio module. The RF module also receives a signal from the synthesizer module. The synthesizer module frequency range is from 3.75 mc to 19.749 mc. A mixer in the RF module mixes the 1,750-kc lsb and synthesizer frequency producing a sum and difference frequency. The difference frequency is between 2 mc and 17.999 mc and is the upper sideband of the selected channel. The difference frequency is selected by a tuned radiofrequency amplifier and is applied to the power amplifier module. The MC (MHz) step frequency selector gearing of the synthesizer module is connected to the band selection circuits in the RF module so that when the synthesizer frequency is changed, the resonant frequency of the RF module will be changed accordingly. The chassis-mounted gain control circuits and the front panel R. F. GAIN control govern the level of the 2-mc to 17.999-mc RF module output. The power amplifier module increases the amplitude of the RF signal and couples the signal to the antenna. In addition, the power amplifier module provides a transmit level control to the gain control circuit so that RF gain in the RF module is maintained at a constant level.

c. Transmit Mode Power Source. During the transmit mode, the power supply module of the radio set supplies three dc operating

voltages to the system. The power supply module accepts +12 volts from an external power source and produces the +12-volt

transmit (to energize the radio set relays), the +9-volt enable, and the +40-volts for the power amplifier module.

Section III. FUNCTIONAL ANALYSIS

1-6. General

This section contains a functional analysis of each of the radio set's major functions. These major functions are the receive, transmit, and power functions. Diagrams of each major function are shown in figures 6-3 through 6-5. These diagrams show the major circuits contained within each module and illustrate the mode selection circuits which switch the radio set from a receive to a transmit function.

1-7 Receive Function (fig. 6-3)

a. General. The receive function receives RF signals of from 2 to 17.999 mc, converts the RF signal to a 1,750-kc IF then demodulates the intelligence so that it will produce audible signals in a headset. The functional operation of the circuits that are operational during a receive mode, within each dual purpose module, are described in *b* through *f* below.

b. Power Amplifier Module. The power amplifier module in the receive mode of operation connects the 2-mc to 17.999-mc RF input from the antenna to the input of the RF module. A receiver-transmit relay, which is de-energized in the receive mode, disconnects all power amplifier circuits, except the antenna loading and tuning network. This network contains selection circuits, which are adjusted to load the antenna for optimum RF reception

c. Synthesizer Module. The synthesizer module generates the 3.75-mc to 19.749-mc signal which is heterodyned with the received RF to obtain a 1,750-kc IF. The synthesizer signal selected is 1,750 kc above the IF and is applied to the RF module in 1-kc increments during normal operation. The synthesizer module may also be operated in the calibrate mode. During the calibrate mode, the synthe-

size signal output is in 10-kc increments. The basic synthesizer circuits which form the synthesizer signal consist of the push-to-calibrate and clarify tuning circuit, calibrate frequency standard, calibrate-operate control relay K2, receive-transmit control relay K1, 1-kc and 10-kc step oscillators and mixer, 100-kc step oscillator and mixer, and mc step oscillator and mixer. The CLARIFY control and 1 KC (KHz), 10 KC (KHz), 100 KC (KHz), and MC (MHz) step frequency selector switches on the radio set front panel are also part of the synthesizer module. Since the step oscillators are free-running, the synthesizer module requires only direct current (dc) voltages from the power supply module to operate. The 1-kc step oscillator produces 10 different frequencies as selected by the 1 KC (KHz) step frequency selector switch. The range of frequencies covered is from 6,525 to 6,534 kc. The 10-kc step frequency oscillator produces frequencies from 9,025 to 9,115 kc as selected by the 10 KC (KHz) step frequency selector switch. These two selected step frequencies are then added together and connected to the input of the 100-kc step oscillator and mixer. The 100-kc oscillator is controlled by the 100 KC (KHz) step frequency selector and has 10 different frequency outputs of 26,730 to 27,630 kc, in 100-kc steps. The 100-kc step oscillator output is added to the mixed 1-kc and 10-kc step oscillator outputs. The total signal is applied to the mc-step oscillator and mixer. The frequency range of the total signal is between 42,280 and 43,279 kc in 1-kc steps, depending on the settings of the three front panel kilocycle step frequency selectors. The mc step frequency oscillator and mixer is used to convert the synthesizer module output into its final form. The mc step oscillator frequency output is from 38,530 to 23,530 kc in 1,000-kc steps. The final mixer takes the difference between the mc and mixed 100-kc step oscillator outputs; therefore, the output of the final mixer is between 3.75 and 19.749 mc in 1-kc steps, depending on the position of the

MC (MHz) step frequency selector switch. The combination of step frequency selections is normally 1.75 mc above the incoming RF. The synthesizer output is altered during calibration of the radio set. To calibrate the radio set during the receive mode, the operator presses the **CLARIFY-PUSH TO CALIBRATE** control knob on the front panel. With the control knob pushed in, +12volts is provided to operate-calibrate control relay K2 in the synthesizer module. This voltage energizes K2, causing its contacts to replace the multiple 1-kc crystal frequencies with a fixed calibrate frequency standard. This process removes the 1-kc steps in the synthesizer output. The **CLARIFY** tuning control is then used to properly calibrate the receiver tuning circuits. The **MC (MHz) step frequency selector**, in addition to providing the correct mc step frequency, is mechanically connected to the RF module to control frequency selection.

d. RF Module. During the receive function, the RF module tunes the power amplifier module and synthesizer module input frequencies, controls the RF gain, and heterodynes the RF signal with the selected synthesizer frequency to obtain the 1,750-kc IF. If the receiver is being calibrated, the RF module receives a 10-kc calibrate signal from the frequency generator module. The 10-kc calibrate signal is heterodyned with an altered synthesizer signal input, consequently, the tuning circuits can be calibrated so that the synthesizer and frequency generator are in phase with one another and the RF module can be tuned properly prior to RF reception. To insure that the frequency bandpass range of the RF module circuits will be approximately the same as the RF and synthesizer input ranges, the RF module is mechanically connected to the **MC (MHz) step frequency selector switch** on the front panel. The basic operation of the RF module is the same during both the calibrate and operate conditions except for minor differences; therefore, only the operate condition will be described. During the operate condition, the RF input from the power amplifier module is applied through the normally closed contacts of receive-transmit control relay K1 to the RF tuning circuits. The RF input is in

the high frequency range between 2 and 17.999 mc. The RF tuning circuits form a tuned radiofrequency (trf) amplifier. The bandpass of the tuned circuit is controlled by band-switching devices mechanically connected to the front panel **MC (MHz) step frequency selector**. The RF tuning circuits also receive an RF gain control input from the chassis-mounted RF gain control circuits. The front panel **R. F. GAIN** control is adjusted for a desired audio level in the headset. The tuned and gain-controlled RF signal is supplied to a balanced mixer in the RF module for heterodyning. The synthesizer module tuning circuits are used to supply a 1.75-mc frequency above the input radiofrequency to the balanced mixer. The synthesizer tuning circuits in the RF module receive the 3.75-mc to 19.749-mc output of the synthesizer module. Its tuned circuits are also frequency band controlled by the **MC (MHz) step frequency selection**. The tuned synthesizer and RF signals are heterodyned by the balanced mixer to obtain the 1,750-kc IF. The IF output of the RF module containing the voice or telegraph audio intelligence is then applied to the IF audio module.

e. Frequency Generator Module. During the receive mode, the frequency generator module provides two outputs. These outputs are a highly stable 1,750-kc signal and a 10-kc calibrate signal. The frequency generator module consists of a frequency standard and a frequency divider. The frequency standard is a free-running frequency generating circuit requiring only +9 volts enable from the power supply to operate. The 1,750-kc output is connected to the demodulator circuit of the IF audio module and to the frequency divider in the frequency generator module. The frequency divider divides the 1,750 kc down to 10 kc when the front panel **PUSH TO CALIBRATE** switch (not shown on fig. 6-3) is pressed; therefore, a 10-kc output is provided to the RF module only when the receive function is being calibrated.

f. If. Audio Module. The primary function of the IF audio module is to accept the 1,750-kc IF containing the audio intelligence from the RF module and the 1,750-kc reference signal

from the frequency generator module, to amplify the IF, to detect the audio intelligence, to amplify the audio, and to apply it to a headset. The 1,750-kc IF is received from the RF module and connected to the IF preamplifier through the normally closed contacts of receive-transmit control delay K1. The preamplified IF is then filtered by a crystal filter network when operate-calibrate control relay K2 is in the operate condition. The resultant output is supplied through receive-transmit control relay K3 contacts to the IF amplifier stage. The +9-volt enable line is routed through another set of K3 contacts to the IF amplifier and demodulator stages during the receive mode of operation only. The IF amplifier, which receives IF gain control from the chassis-mounted gain control circuits, further amplifies the 1,750-kc modulated IF before it is sent to the demodulator. A second input to the demodulator is the 1,750-kc reference signal. The difference in the modulated 1,750-kc and the 1,750-kc reference signal is the output from the demodulator. The difference is the audio intelligence created by voice or telegraph modulation. The audio signal is applied to an audio amplifier stage, which amplifies the signal and applies it to the headset.

1-8. Transmit Function

(fig. 6-4)

a. General. The purpose of the transmit function is to accept voice, telegraph key, or automatic Keyer KY-468/GRA-71 audio intelligence, modulate a 1,750-kc IF signal with the audio, multiply and amplify the IF up to a signal between 2 and 17.999 mc, then couple the RF to an antenna for transmission. The functional operation of the circuits within the dual purpose radio set modules that are operational during the transmit mode of operation is described in *b* through *f* below.

b. Frequency Generator Module. The function of the frequency generator module during the transmit mode of operation is to provide a highly stable 1,750-kc IF reference signal to the IF audio module. The frequency divider circuit will not operate in the transmit mode

since the PUSH TO CALIBRATE switch line does not receive power.

c. If. Audio Module. The IF audio module is capable of modulating a 1,750-kc IF with voice, telegraph key, or automatic keyer audio intelligence. After modulation, the modulated IF is amplified and filtered by the IF audio module before being applied to the RF module. The IF audio module consists of two receive-transmit control relays, an audio tone oscillator, a continuous wave hold circuit, an audio amplifier, a microphone amplifier, a balanced mixer, an IF preamplifier, and a crystal filter. Voice (audio) inputs are applied to the microphone amplifier from the microphone. When the automatic keyer is keying or when the operator closes the telegraph key, the audio tone oscillator is activated, causing a 2,000-cps tone to be connected to the microphone amplifier. The microphone amplifier amplifies the voice, automatic keyer, or telegraph key audio intelligence and supplies it to the input of the balanced mixer. A second output of the microphone amplifier connects the audio to the audio amplifier and headset for sidetone monitoring. The other input to the balanced mixer is the 1,750-kc IF reference signal. Within the balanced mixer circuit, the audio intelligence modulates the 1,750-kc IF reference signal. The modulated IF is taken from the arm of the balance control at the output of the balanced mixer and passed through the contacts of relay K1 (energized) to the IF preamplifier stage. After amplification, the IF is filtered by the crystal filter to pass only the lsb of the IF. The lsb IF is then connected through the transmit contacts of K3 (energized) to the input of the RF module.

d. Synthesizer Module. The operation of the synthesizer module during a transmit mode of operation is the same as during the receive mode of operation, except that the calibration circuits are disabled; therefore, the synthesizer output is always a high frequency signal between 8.75 and 19.749 mc in 1-kc steps. The frequency selected by the four front panel step frequency selector switches determines the frequency output of the synthesizer module.

e. RF Module. The operation of the RF module of the radio set during the transmit

mode of operation is also the same as that in the receive mode of operation except that signal flow is reversed through the module, and the calibration circuits are disabled. Since signal flow is reversed, the 1,750-kc IF is now the input to the balanced mixer. The balanced mixer also receives the synthesizer module output and mixes both signals. The output of the balanced mixer is applied through the contacts of relay K1 (energized) to the RF tuning circuits. The RF tuning circuits select the difference between the two signals, that is, the synthesizer frequency input minus the lower sideband of 1,750 kc. This difference frequency, which is the upper sideband of the selected channel (2 to 17.999 mc), is amplified and connected to the power amplifier module through the contacts of relay K2 (energized).

f. Power Amplifier Module. The power amplifier module in the transmit mode of operation amplifies the RF output of the RF module, controls the transmit level automatically, and provides a means of tuning and loading the antenna properly for optimum rf transmission. The +9-volt enable output of the power module is connected through the contacts of relay K2 to the RF preamplifier and RF power amplifier circuits during transmit mode only. These circuits increase the gain of the RF sufficiently to drive the antenna tuning and loading circuits. A transmit level control, produced by the transmit level control circuit, is applied to the input of the RF gain control to maintain the input signal at a constant level. The transmit level control circuit establishes the control level by sampling the current drawn by the RF power amplifier. After preamplification and power amplification, the RF is applied to a tuning indicator circuit. This circuit provides an input to ANT IND meter M201, which is used to monitor antenna tuning. The amplified rf is then supplied to the antenna tuning and loading network. The antenna tuning and loading network contains the adjustments and switches necessary to tune the antenna for optimum RF transmission.

1-9. Power Function

(fig. 6-5)

a. General. The purpose of the power circuits

is to receive either ac or dc source power and convert it into the dc operating voltages required by the radio set during both receive and transmit modes of operation. The functional operation of the circuits within the radio set power supply module, Power Supply PP-4514/PRC-74, and the external battery charger are described in *b* through *d* below. Optional power input connections may be utilized as an input to the power circuits. When the radio set is used as a portable man-carried unit, the power input to the power supply module is +12 volts from a wet or dry cell battery. During that time, the external power supply and battery charger are not required; however, if the radio set is to be used at a field site or fixed station, the external power supply and battery charger are normally used. During that time, +21 volts to +31 volts from a vehicular battery or dc power source, 160 to 255 volts ac, or 80 to 180 volts ac can be the power source. The external power supply then converts either the dc or ac voltage into the required -12-volt input for the radio set power supply module. The external battery charger operating from the converted voltages of the power supply charges the rechargeable batteries of the radio set so that they can be used again for future portable operation.

b. Power Supply PP-4514/PRC-74. The PP-4514/PRC-74 is capable of converting either alternating current (ac) or dc voltages into +12 volts for the power supply module of the radio set. The ac or dc input source voltage is coupled through the input filter capacitors to the POWER ON switch. If the dc power input option has been chosen for use, the dc voltage is passed through 15-ampere fuse F1 to the input of the -12-volt regulator circuit. A dc indicator is connected to the dc input line so that the operator will know that dc voltage is being applied to the PP-4514/PRC-74. When an ac power source has been selected as the input to the PP-4514/PRC-74, the POWER ON switch passes either 160 to 255 volts ac through 2-ampere fuse F2 or 80 to 180 volts ac through 4-ampere fuse F3 to a dc rectifier. The dc rectifier converts the ac voltage to a dc voltage (between +20 and +40 volts) that is sufficient to drive the +12-volt regulator

circuit. The +12-volt regulator, a series-regulated circuit, accepts either the direct or converted dc voltage input and provides a +12-volt output across its load. This +12 volts is supplied to the power supply module. In addition, a +12-volt output of the +12-volt regulator is applied to the monitoring meter on the front panel of the PP-4514/PRC-74.

c. Battery Charger Assembly. The external battery charger (PP-4514/PRC-74) receives either the direct or converted dc voltage from the PP-4514/PRC-74 and provides a means for charging the +12-volt rechargeable battery that powers the radio set when it is man-carried. CHARGER ON switch S1A connects ground to the battery charger when set to ON. A charger power on indicator monitors the application of battery charger power. To protect the battery charger from overloads, 6-ampere fuse F1 is connected in series with the CHARGER ON switch. The output of the battery charger is routed through 6-ampere fuse F2, blocking diode CR3, and switch S1B to the battery.

d. Power Supply Module. The power supply module is in the radio set. The power supply module may receive power input from either a 12-volt battery or the external power supply. In either case, the operation of the power supply module is the same. The selected optional power is connected through 2-ampere

fuse F2 to the contacts of the transmit-receive control relay K1 and OFF-ON-TUNE function switch S201B. The transmit-receive control relay is normally in the receive position, disconnecting the 12 volts from the dc-to-dc converter and 12-volt transmit line. When the transmit mode of operation has been selected, the cw hold signal from the IF audio module energizes K1, causing the +12-volt transmit line to be energized and the dc-to-dc converter to operate. The 12-volt input to the dc-to-dc converter is converted to approximately 50 volts. The +50-volt potential is then regulated at 40 volts by the +40-volt regulator. The 40-volt output of the power supply module is applied to the power amplifier module of the radio set. The OFF-ON-TUNE switch supplies +12 volts to the +9-volt regulator and transmit-receive control relay K1 contacts if it is positioned to ON or TUNE. The +9-volt regulator is a series-regulated circuit which supplies +9 volts enable to the radio set modules during both the receive and transmit modes. The contact of K1 that receives +12 volts from the function switch is connected to front panel PUSH TO CALIBRATE switch S202 only during the receive mode of operation. The PUSH TO CALIBRATE switch distributes the +12-volt calibrate control voltage to the radio set modules when it is desired to calibrate the radio set tuning circuits.

Section IV. FREQUENCY SYNTHESIZER MODULE ANALYSIS

1-10. General (fig. 6-6)

The frequency synthesizer module generates a signal for heterodyning purposes. The synthesizer module contains a series of crystal-controlled oscillators, mixers, band-pass filters, and amplifiers that generate a selectable output signal of 3.75 to 19.749 mc. The selectable output signal frequency is always 1,750 kc above the RF selected by the radio set for operation. A simplified block diagram of the synthesizer module is illustrated in figure 6-6. The 1 KC (KHz) step frequency selector switch S1, 10 KC (KHz) step frequency selector switch S2, 100 KC (KHz) step frequency

selector switch S3, and MC (MHz) step frequency selector switch S4 select a crystal for each of their respective oscillator circuits. All selector switches and controls necessary for frequency synthesizer module operation are on the front panel.

a. 1-Kc and 10-Kc Oscillators and Mixer. The 1-kc oscillator Q1, 10-kc oscillator Q2, and mixer Q3 are contained in assembly A5 of the frequency synthesizer module. Crystals Y1 through Y10 and 1 KC (KHz) step frequency selector switch S1 provide 1-kc oscillator Q1 a frequency range between 6,525 and 6,534 kc in 1-kc steps. The 1-kc oscillator crystals and switch S1 are part of assembly A1 of

the frequency synthesizer module. Calibrate frequency standard crystal Y47 is connected to the 1-kc oscillator circuit through the contacts of relay K2 when the radio set is in the calibrate mode of operation. Calibrate frequency crystal Y47 produces 6,525 kc for calibration purposes. In calibration operation, the receiver is calibrated against a 10-kc signal generated in the frequency generator module. Calibrate frequency crystal Y47 inserts a signal (identical to position 0 of 1 KC (KHz) step frequency selector switch S2) into the 1-kc oscillator, eliminating the 1-kc step action for calibration purposes. CLARIFY control C601 in the receive mode of operation, is connected through the contacts of K1 to the crystal selected by switch S1. Slight adjustments to the receive frequency can be made to receive a station more clearly by manually varying the CLARIFY control. The output of the 1-kc oscillator is applied to the input of first mixer Q3 where it is mixed with the output of 10-kc oscillator Q2. The 10 KC (KHz) step frequency switch and crystals Y11 through Y20 are part of 10-kc crystal select A2 of the synthesizer module. The 10-kc oscillator generates a frequency of 9,025 to 9,115 kc in 10-kc steps. During calibration, the output of the 10-kc oscillator is adjusted by means of the PUSH TO CALIBRATE control (not shown on figure 6-6). This is accomplished by depressing the PUSH TO CALIBRATE knob and tuning it for a zero beat tone at the headset. The first mixer output is the sum of the 1-kc and 10-kc oscillators. The output of the mixer is applied to 10-kc bandpass amplifier Q4. The 10-kc bandpass amplifier has tuned circuits that reject undesired frequencies and harmonics of the first mixer output while passing signals in the frequency range of 15,550 to 15,649 kc. Output signals of the 10-kc bandpass amplifier are applied as one of the inputs to second mixer T5, T6.

b. 100-Kc Oscillator. The 100-kc oscillator Q7 and 100-kc crystal select Y21 through Y30 and S3 are part of 100-kc step oscillator A3. The 100-kc oscillator can produce a frequency between 26,730 and 27,630 kc, in steps of 100 kc. The frequency is selected by

100 KC (KHz) step frequency selector switch S3 and the resulting signal, generated by Q7, is supplied as an input to second mixer T5 and T6, where it is combined with the output of 10-kc bandpass amplifier Q4.

c. Second Mixer and 100-Kc Bandpass Amplifier Q5, Q6. The 15,550- to 15,649-kc output of the 10-kc bandpass filter and the 26,730- to 27,630-kc output of 100-kc oscillator Q7 are added together by second mixer T5, T6. The second mixer output is applied to 100-kc bandpass amplifier Q5, Q6. The resulting combined and filtered output signal of the 100-kc bandpass amplifier is supplied as an output to a third mixer stage where it is combined with the output of 1-mc oscillator Q9. The second mixer and 100-kc bandpass amplifiers are in 100-kc mixer and bandpass amplifier A7 of the synthesizer module.

d. 1-Mc Oscillator. The 1-mc oscillator Q9 and crystals Y31 through Y46 are in assembly A4 of the synthesizer module. The 1-mc oscillator generates signals of 38,530 to 23,530 kc, selectable in 1-mc steps. Oscillator crystals are selected by means of MC (MHz) step frequency selector switch S4 which is also geared mechanically to the RF module.

e. Third Mixer. The output of the 1-mc oscillator and the output of the 100-kc bandpass amplifiers are mixed in third mixer T12, T13, CR4. The difference frequency of the two input signals is taken from the output of the third mixer and applied to output amplifier and low-pass filter Q8, FL1. The third mixer and output amplifiers are part of mc mixer and final amplifier A8.

f. Output Amplifier and Low-Pass Filter. The output of the third mixer is applied to output amplifier and low-pass filter Q8, FL1. The undesirable harmonics are filtered out by FL1. The output of the frequency synthesizer module is the difference frequency produced at the output of the low-pass filter circuit. This signal is supplied to the RF module for use in the heterodyne process. The output signal of the frequency synthesizer module ranges from 3.75 to 19.749 mc.

(1) The signal derived from each of the

C1

frequency synthesizer modules is given in the chart below.

Switch position (digit)	Oscillator			
	1-kc	10-kc	100-kc	1-Mc (in kc)
0	6,525	9,025	26,780	
1	6,526	9,035	26,880	
2	6,527	9,045	26,980	38,580
3	6,528	9,055	27,080	37,580
4	6,529	9,065	27,180	36,580
5	6,530	9,075	27,280	35,580
6	6,531	9,085	27,380	34,580
7	6,532	9,095	27,480	33,580
8	6,533	9,105	27,580	32,580
9	6,534	9,115	27,680	31,580
10				30,580
11				29,580
12				28,580
13				27,580
14				26,580
15				25,580
16				24,580
17				23,580

(2) A composition of the synthesizer signal is shown by the following example:

(a) Assume the radio set frequency setting is 3,167 kc.

(b) With a 1,750-kc intermediate frequency, the frequency synthesizer module signal required is:

$$1,750 + 3,167 = 4,917 \text{ kc.}$$

(c) Add 1-kc oscillator (position 7) to 10-kc oscillator (position 6):

$$6,532 + 9,085 = 15,617 \text{ kc.}$$

(d) Add 100-kc oscillator (position 1):

$$15,617 + 26,880 = 42,447 \text{ kc.}$$

(e) Subtract 1-mc oscillator (position 3):

$$42,447 - 37,580 = 4,917 \text{ kc.}$$

1-11. 1-Kc Oscillator

The schematic diagram of the 1-kc oscillator circuit in the synthesizer module is shown in figure 6-7. The 1-kc oscillator Q1 and the selected crystal (Y1 through Y10) form a Colpitts-type oscillator with a frequency range of 6,525 to 6,534 kc. Starting at position 0 of the 1 KC step frequency selector, each crystal selected advances the signal output of Q1 by 1 kc. A trimmer capacitor associated with each crystal, C602 through C611, is part of the tuned circuit and is adjusted to the exact frequency

of each position as shown in the chart for 1 KC (KHz) step frequency selector switch S1. In the receive mode of operation, relay K1 is deenergized, connecting C601 to the crystal selected. CLARIFY control C601 is adjusted to receive signals clearly. In the transmit mode of operation, relay K1 is energized, disconnecting C601 and connecting C612 and C92 to the tuned circuit of the 1-kc oscillator. Capacitor C612 is adjusted for overall frequency ranges of the oscillator. During the calibration mode, relay K2 is energized, disconnecting the crystal that was selected by switch S1 and connecting crystal Y47 to the 1-kc oscillator. Crystal Y47 produces 6,525 kc, which is identical to position 0 of 1 KC (KHz) step frequency oscillator selector S1. Frequency trimming of Y47 is accomplished by capacitor C617. Feedback for the 1-kc oscillator is through the emitter of Q1 to the junction of capacitors C14 and C15. Resistors R1 and R2 constitute a voltage divider network providing bias for the base of Q1. RF decoupling is provided by rf choke L1 and capacitor C18. This circuit is typical for the IF decoupling circuits that are used throughout the synthesizer module. The 1-kc step frequency signal output is taken from capacitive divider network C15 and C16 that provides a low impedance output drive to the emitter of first mixer Q3.

1-12. 10-Kc Oscillator

The 10-kc oscillator circuit is a Colpitts-type oscillator similar to the 1-kc oscillator. One of 10 crystals (Y11 through Y20) is selected by 10 KC (KHz) step frequency selector S2 for 10-kc oscillator Q2. The rear deck of S2 insures that the unused crystals of the 10-kc oscillator do not generate undesired signals. During the calibration mode, capacitor C628 is mechanically connected to the PUSH TO CALIBRATE knob. The frequency of the synthesizer output is adjusted for a zero beat with a 10-kc signal from the frequency generator module. The output of Q2 is applied to the base of first mixer Q3. Capacitive divider C21 and C22 provides a low impedance output to drive the first mixer stage.

1-13. First Mixer

First mixer Q3 receives the 1-kc oscillator output signal at the emitter and the 10-kc oscillator output at the base and heterodynes both signals. Base bias is developed by resistors R7 and R8, and emitter bias is developed by R9. The sum of the signals (15,550 to 15,649 kc) is tuned by two tuned circuits. The first tuned circuit is comprised of autotransformer T601 and capacitors C26 and C27 and is located on assembly A5. The capacitors also serve as a voltage divider network. The second tuned circuit, on assembly A6, is made up of T602, C30, and C31. The output of the second tuned circuit is taken from the center tap of T602 and applied to 10-kc bandpass amplifier Q4.

1-14. 10-Kc Bandpass Amplifier

The output of the first mixer is connected to the 10-kc bandpass amplifier, through T602 and coupling capacitor C32, to the base of transistor Q4. Base bias for Q4 is developed by voltage divider R11 and R12. RF decoupling network L10, C88, L5, C88, and C84 block the RF signals from the 9-volt power source. Transistor Q4 amplifies the signal and applies the output to a tuned circuit that is tuned to 15,561 kc and has a bandwidth of 10 kc. The tuned circuit is comprised of autotransformers T603 and T604 and capacitors C36, C37, and C38. The output signal of the 10-kc bandpass amplifier is taken from the center tap of T604 and applied to the primary winding of second mixer input transformer T5.

1-15. 100-Kc Oscillator

The 100-kc crystal oscillator generates selectable output frequencies of 26,730 to 27,630 kc in 100-kc steps. The 100-kc oscillator circuit consists of transistor Q7, tapped transformer T611, and 10 crystals (Y21 through Y30), which are selectable one at a time by means of 100 KC (KHz) step frequency selector S3. The front deck of S3 grounds all crystals (Y21-Y30), except the selected crystal, to prevent undesired signals. An RF filter network, consisting of C88, L11, C85, L12, C52, R21, C53, L8, and C54, keeping 100-kc RF signals from the 9-volt power source. Bias for the base circuit of transistor Q3 is provided by

voltage divider R22 and R23. The primary of T611 and C55 form a collector tank circuit for Q7. Regenerative feedback for the 100-kc oscillator circuit is provided from the center tapped/primary of T611 through C56 to the emitter of Q7. Degenerative feedback is provided through C105 to the base of Q7 to stabilize the 100-kc oscillator output. Emitter bias for Q3 is provided by R24. The 100-kc output signal from the secondary winding of T611 is connected to the second mixer.

1-16. Second Mixer

The second mixer accepts the frequency outputs of the 10-kc bandpass amplifier and 100-kc oscillator, then heterodynes the signals, producing an upper and lower sideband. The second mixer consists of transformers T5 and T6 and single-balanced diode circuit CR3. Transformer T5 couples both input signals to single-balanced diode circuit CR3. Single-balanced diode circuit CR3 suppresses the 100-kc oscillator signal and connects the upper and lower sideband of the mixed signal to T6. The secondary of T6 is connected directly to the base of first 100-kc bandpass amplifier Q5.

1-17. 100-Kc Bandpass Amplifier

The 100-kc bandpass amplifier contains first 100-kc bandpass amplifier Q5 and second 100-kc bandpass amplifier Q6. First 100-kc bandpass amplifier Q5 receives the upper and lower sideband output of the second mixer and amplifies the signal, then selects the upper sideband for further amplification. Base bias for transistor Q5 is developed by voltage divider network R15 and R16. Emitter bias for Q5 is developed across resistor R17. Emitter biasing resistor R17 is bypassed by capacitor C40 to prevent degeneration. Resistor R38 and capacitor C41 form a decoupling network, keeping RF from the 9-volt power source. Transformer T607 and capacitor C42 form a tank circuit whose output is coupled through C43 to a second tank circuit, T608 and C44. Both tank circuits are tuned to the upper sideband and have a bandwidth of 100 kc. The output of T608 is coupled through C45 to the base of second 100-kc bandpass amplifier Q6. The function of second 100-kc bandpass amplifier

Q6 is similar to the first 100-kc bandpass amplifier. RF decoupling for transistor Q6 collector circuit is accomplished by L7 and C48. Capacitor C46 provides additional decoupling. The output of the second 100-kc amplifier is taken from the center tap of T610 and is applied to the third mixer where the signal is mixed with the 1-mc oscillator signal.

1-18. 1-Mc Oscillator

The 1-mc oscillator is similar to the 100-kc oscillator circuit and consists of 1-mc oscillator Q9, tuned transformer T614, MC (MHz) step frequency selector switch S4, and oscillator crystals Y31 through Y46. Since the frequency range covered is greater than that of 100-kc oscillator Q7, trimmer capacitors are added to the oscillator circuit for frequency adjustments of each selected crystal. This action is accomplished by MC (MHz) step frequency selector switch S4B, which selects a trimmer capacitor and a fixed capacitor. Each position of S4 selects a crystal for the oscillator and a capacitor in series with mc oscillator output tank circuit T614 and C65. The 1-mc oscillator output is 38,530 to 23,530 kc in 1-mc steps. Each trimmer capacitor selected adjusts the output frequency to the exact frequency desired for each position of the MC (MHz) step frequency selector switch. MC (MHz) step frequency selector switch S4 is linked mechanically to the RF module to keep the frequency synthesizer module output signal exactly 1,750 kc above the tuned radio-frequency amplifier stages of the RF module.

1-19. Third Mixer

The third mixer is a balanced bridge circuit that is designed to mix the output signal of the second 100-kc bandpass amplifier with the output of the 1-mc oscillator. The third mixer consists of mixer transformer T12, rectifier diode network CR4, and output transformer T13. The output of the 100-kc bandpass amplifier is applied to the unbalanced input, and the output of the 1-mc oscillator is applied to the balanced input of the balanced bridge circuit. The output of the second 100-kc bandpass amplifier is suppressed and the upper and lower sidebands are coupled across transformer T13 to the base of transistor Q8.

1-20. Output Amplifier

Output amplifier Q8 amplifies the double sideband output from the third mixer and couples the signal to low-pass filter FL1. Base bias for transistor Q8 is developed by voltage divider network R27 and R28. Resistors R31 and R32 provide emitter bias. Capacitors C57, C59 and C106 prevent degeneration. Resistor R29 and capacitors C58 and C61 form an RF decoupling network for the output amplifier. The double sideband signal is coupled through capacitor C60 to low-pass filter FL1. Low-pass filter FL1 allows only the lower sideband signal (difference between the second 100-kc bandpass amplifier output and mc oscillator output) to pass to the RF module. The frequency range of this signal is 3.75 to 19.749 mc and is 1,750 kc above the radio set operating frequency.

Section V. RF MODULE ANALYSIS

1-21. General

(fig. 1-1)

The RF module performs two functions: in the receive mode of operation, it converts the incoming rf from the power amplifier module to a 1,750-kc intermediate frequency; in the transmit mode of operation, it converts the 1,750-kc intermediate frequency to the transmit frequency. Figure 1-1 shows how the signals are routed during the two modes of operation.

a. Receive Mode. During the receive mode of operation, the RF input from the power amplifier module is coupled through the contacts of relay K1 (deenergized) to the trf amplifier. The trf amplifier consists of three RF tuned circuits and an RF amplifier. The RF tuned circuits are tuned to the operating frequency and are connected in series to increase the selectivity of the trf amplifier. Output from the third RF tuned circuits is coupled through the contacts of relay K2 (deenergized)

to balanced mixer Z1. In the balanced mixer, the output from the third RF tuned circuits is heterodyned with a signal from the synthesizer module. The synthesizer module output signal is 1,750 kc above the operating frequency of the radio set. The resultant output from the balanced mixer is a 1,750-kc intermediate frequency applied to the IF audio module. The input from the synthesizer module is amplified by the synthesizer amplifier stage. The synthesizer tuned circuits that follow the synthesizer amplifier stage are tuned with a section of the same ganged capacitor that is used by the tuned circuits of the trf amplifier. The resonant frequency of the synthesizer tuned circuit is always 1,750 kc above that of the trf tuned circuits. The resonant frequency of all the rf tuned circuits in the RF module is varied simultaneously by the control panel PEAK NOISE control.

b. *Transmit Mode.* During the transmit mode of operation, the RF module receives a 1,750-kc lower sideband signal from the IF audio module. The signal is coupled to the balanced mixer and heterodyned with the amplified 3.75-mc to 19.749-mc RF input from the synthesizer module. The difference frequency output of the balanced mixer is the upper sideband of the selected channel and is coupled through the contacts of relay K1 (energized) to the trf amplifier, and from there (through the contacts of energized relay K2) to the power amplifier module.

1-22. First RF Tuned Circuit (fig. 6-8)

Input signals from the power amplifier module to the first RF tuned circuits are received at connector J702 and coupled through the contacts of relay K1 (deenergized) to switch S1A. Switch S1A is one section of a six-wafer, four-position, gear-driven rotary switch that selects the tuned circuits of the RF module and is gear-driven from the MC (MHz) selector switch of the synthesizer module. The input signal is switched by S1A to one of four tank circuits in the first RF tuned circuits. The tank circuit to be used is determined by the band setting of switch S1A. In band 1, the input is applied

to the primary of transformer T701; in band 2, the input is applied to the primary of T702, etc.

a. The radio set frequency range and synthesizer range for each of the four bands are shown in the chart below.

Band number	Rf range (mc)	Synthesizer (mc)
1	2 to 3.999	3.75 to 5.749
2	4 to 6.999	5.75 to 8.749
3	7 to 11.999	8.75 to 13.749
4	12 to 17.999	13.75 to 19.749

b. For all operating bands, tuning capacitor C701A is placed in parallel with the capacitor of the selected tank circuit. Capacitor C701 consists of four ganged-tuned capacitors (C701A through C701D) which are adjusted simultaneously with the PEAK NOISE control on the control panel of the radio set. The output signal of the first RF tuned circuits is supplied by one of the secondary windings of tuned transformers T701 through T704. The tank circuits of bands 1, 2 and 3, that are not used are loaded by resistor R3 to prevent interaction with the selected tank circuit. The output from the selected transformer is connected through switch S1A and coupled through capacitor C8 to the second rf tuned circuits.

c. In the calibration mode, a 10-kc calibration signal from the frequency generator module is supplied to the RF module. The 10-kc signal is fed to the first RF tuned circuits through jack J701, then filtered by a resistance-inductance (r1) network composed of resistors R1, R2, and R15, and inductors L4 and L5.

1-23. Second RF Tuned Circuits

The second RF tuned circuits consist of switch S1B, tuned transformers T705 through T708, capacitors C710 through C713 and C39 through C41. The input signal is routed through S1B to the selected tank circuit. Each tank circuit has a tapped transformer (except T708 which is a stepdown transformer) to match the impedance of transistor Q1. Resistor R4 loads the tank circuits of bands 1, 2 and 3 that are not used. Variable gang-tuned PEAK NOISE capacitor C701B tunes the selected tank circuit for maximum output at the desired frequency in the

band. The output from the selected second RF tuned circuits is coupled through switch S1B and capacitor C15 to the base of transistor Q1.

1-24. RF Amplifier

The signal from the second RF tuned circuits is coupled through C15 to the base of RF amplifier Q1. The gain of the RF amplifier is controlled by a positive voltage from the gain control circuit (para 1-55). The gain control voltage is connected to the base of Q1 through inductor L1. Resistor R6, diode CR1, and bypass capacitor C14 form part of a voltage divider network for the gain control circuit. Diode CR1 also provides temperature compensation for the base-to-emitter junction of Q1. Inductor L1 keeps RF out of the gain control circuits. Emitter bias is developed by R7. Inductor L2 is the load for transistor Q1. Decoupling is accomplished by capacitor C16. The output signal is coupled through C18 and switch S1C to one of four tank circuits in the third RF tuned circuits.

1-25. Third RF Tuned Circuits

The four tank circuits in the third RF tuned circuits are formed by the primary windings of transformers T709 through T712 and capacitors C720 through C723 and C43 through C45. Resistor R8 loads the three unused tank circuits. The secondary windings of transformers T709 through T712 provide low impedance outputs to balanced mixer Z1. The output from the selected tank circuit is connected to the balanced mixer through switch S1D and the contacts of relay K2 (deenergized).

1-26. Balanced Mixer

Balanced mixer Z1 operates in both the receive and transmit modes of operation. In the receive mode of operation, the balanced mixer receives an input from the third RF tuned circuits and from the synthesizer tuned circuits.

The output of the balanced mixer is coupled through transformer T717 and jack J705 to the IF audio module. The resonant frequency for T707 and C38 is 1,750 kc. In the transmit mode of operation, the balanced mixer receives an input from the IF audio module and from the synthesizer tuned circuits. The upper and lower sideband outputs from the balanced mixer are connected through the contacts of relay K1 (energized) to the first RF tuned circuits.

1-27. Synthesizer Amplifier

The synthesizer amplifier receives input signals from the frequency synthesizer module. Input signals are coupled through capacitor C25 to the base of transistor amplifier Q2. Resistor R9 provides the proper impedance matching with the frequency synthesizer module. Base bias for Q2 is developed across voltage divider network R10 and R11. The load for the collector circuit of Q2 is provided by inductor L3. Capacitor C26 and resistor R12 form an RF decoupling network. Emitter bias is developed across resistor R13. Capacitor C27 is an emitter bypass capacitor. Capacitor C28 couples the output of Q2 to MC step frequency selector switch S1F. The synthesizer amplifier output is switched by S1F and routed to the selected synthesizer tuned circuit.

1-28. Synthesizer Tuned Circuit

Four tank circuits in the synthesizer tuned circuits stage are formed by the primary winding of transformers T713 through T716 in parallel with capacitors C30, C731, C32, C733, C35, C734, C37, and C736. Capacitor C701D (PEAK NOISE control) is placed in parallel (through switch S1F) with the tuned circuit selected. Tuned circuits that are not selected are loaded by resistor R14. The output from the selected synthesizer tuned circuit is coupled through switch section S1E to the balanced mixer.

Section VI. IF AUDIO MODULE ANALYSIS

1-29. General (fig. 6-9)

The IF audio module is used in both the trans-

mit and receive modes of operation. In the receive mode, the IF audio module filters and amplifies the IF signal, then demodulates it

and amplifies the resulting audio signal. The audio signal is then routed to the headset. In the transmit mode, the IF audio amplifier converts audio signals (either voice or cw) to a single sideband (ssb) IF signal which is routed to the RF module

a. Receive Mode In the receive mode, the ssb IF signal from the RF module is routed through deenergized relay K1 to IF preamplifier Q1. The output signal of Q1 is applied to crystal filter FL1, a bandpass filter. The filtered signal is then routed through deenergized relay K3 to IF amplifier Q2 and Q3. Gain control, applied to the base of Q2, regulates the output of the IF amplifiers. The ssb IF signal is then routed to demodulator Q4 where the signal is mixed with 1,750 kc from the frequency generator module. The output of Q4 is an audiofrequency signal which is applied to audio amplifiers Q5, Q6, and Q7. The audio amplifier output drives a 500-ohm headset.

b. Calibrate Mode. The calibrate mode is similar to the receive mode. The one deviation is that when in the calibrate mode, relay K2 is energized, allowing the calibrate signal to bypass crystal filter FL1. Filter FL1 is bypassed because the calibrate signal is not in the frequency band of the filter. In the demodulator, the calibrate signal is mixed with the 1,750-kc signal from the frequency generator module. The radio set is calibrated so that a zero beat condition is observed at the headset.

c. Transmit Mode In the transmit mode, audio inputs are initiated by telegraph-key action or by automatic Keyer KY-468/GRA-71 operation, or are generated at a microphone. Tone oscillator Q11 is activated when the telegraph key is pressed or when the automatic keyer is in operation. The audio signal (voice or tone) is applied to microphone amplifier Q8, Q9, and Q10. The output signal of the microphone amplifiers is routed to balanced mixer Z1 and audio amplifiers Q5, Q6, and Q7. The audio amplifiers and headset permit the operator to hear a sidetone of the signal being transmitted. Balanced mixer Z1 combines the audio signal with a 1,750-kc signal from the frequency generator module and produces a

double-sideband, suppressed-carrier signal. This signal is routed through relay K1 (energized) to IF preamplifier Q1. The amplified double-sideband signal is then applied to crystal filter FL1 which passes the lower sideband and rejects the upper sideband. The ssb signal is routed through relay K3 (energized) to the RF module. Cw hold circuit Q12 and Q13 is enabled by pressing the telegraph key or by operating the automatic keyer. When Q13 conducts, a relay in the power supply is activated, putting the radio set in transmit mode. Releasing the telegraph key does not immediately cause the radio set to revert to the receive mode. A resistance-capacitance (rc) network holds the stage on for approximately 1 second, preventing the distant operator from breaking in between letters, but allowing him to interrupt between words. When the radio set is keyed by automatic Keyer KY-468/GRA-71, the rate of transmission is 300 words per minute. Because of this high rate, the time between words is very short and the radio set remains in the transmit mode for the duration of transmission.

1-30. IF Preamplifier (fig. 6-10)

During the receive mode of operation, an unfiltered 1,750-kc IF ssb signal from the RF module is routed through connector J401 and the contacts of relay K1 (deenergized) to the primary of slug-tuned IF transformer T401. During the transmit mode of operation, the double-sideband signal from balanced mixer Z1 is routed through contacts of relay K1 (energized) to the primary of T401. The secondary of T401 and capacitor C10 form the tuned circuit of IF preamplifier Q1. Resistors R1 and R2 form the bias network. Capacitor C9 places pin 6 of the T401 secondary at ac ground. RF is decoupled from the +9-volt line by inductor L1 and capacitor C11. The output of Q1 is developed across emitter resistor R3 and is then routed through resistor R4 and capacitor C12 to the crystal filter.

1-31. Crystal Filter FL1 (fig. 6-10)

Crystal filter FL1 is a lower sideband pass

filter, referenced to a carrier frequency of 1,750 kc. The bandpass frequencies range from 275 to 3,000 cps below the carrier frequency. In the receive mode, FL1 filters the ssb input signal. In the transmit mode, the input is a double-sideband signal. Filter FL1 rejects the upper sideband and passes the lower sideband signal. In the calibrate mode, the input received from the RF module is a 1,750-kc signal. To prevent the calibrate signal from being rejected by the crystal filter, calibrate relay K2 is energized, permitting the calibrate signal to bypass the filter. During either the receive or the calibrate mode, relay K3 (deenergized) couples the output from the crystal filter circuit to the tuned IF amplifier stage. Relay K3 (deenergized) also applies +9 volts to the tuned IF amplifier and demodulator stages. During the transmit mode, relay K3 (energized) routes the signal from FL1 to the RF module.

1-32. If Amplifier (fig. 6-10)

The IF amplifier is in operation only during the receive and calibrate modes. During the transmit mode the input signal and +9 volts are removed from the IF amplifier by relay K3 (energized). In the receive mode or calibrate mode, IF amplifier Q2 and Q3 receive the output signal from crystal filter FL1 and +9 volts from the +9-volt line through the contacts of relay K3 (deenergized). The signal is routed through impedance matching network R6 and R7 to the primary of IF transformer T402. Capacitor C13 and the secondary of T402 form a tuned circuit. The signal from the tapped secondary is coupled through capacitor C14 to the base of Q2. Biasing of Q2 and Q3 is provided by the gain control signal from the gain control circuit (para 1-55). In the receive mode, the gain control signal is applied to the IF audio module through terminal board TB202, pin 7, and contacts 6 and 8 of K1. During the transmit mode, contacts 6 and 8 of K1 are opened and no signal is applied. During the receive mode, the gain control

signal is routed through filter capacitor C6 and the contacts of K1 (deenergized) to first IF amplifier stage Q2. The dc level of the gain control signal determines the gain of the IF amplifier. Inductor L2 and capacitor C15 decouple RF signals from the gain control circuits. Diode CR3 provides temperature compensation for Q2. The gain control level is developed across resistor R8 and diode CR3. Capacitor C16 prevents R9, the emitter bias resistor, from causing degenerative feedback. The output of Q2 is applied to the tapped, high-Q primary of slug-tuned IF transformer T403. The primary of T403 is tapped to provide impedance match between Q2 and Q3. The output of Q2 is developed across the tuned circuit formed by capacitor C17 and the primary of T403. Transistors Q2 and Q3 are connected as a series amplifier, providing high gain. The IF signal is coupled through T403 and capacitor C19 to the base of Q3. Inductor L3 provides a dc path between Q2 and Q3. Capacitors C18 and C20 bypass RF signals to ground. Voltage divider R10 and R11 develops the bias voltage applied to Q3. The output of Q3 is applied to the tapped primary of IF transformer T404. Tapping the primary provides impedance matching between Q3 and demodulator Q4. The output of Q3 is developed across the tuned circuit formed by capacitor C21 and the primary of T404. Capacitor C22 and inductor L4 decouple RF from the +9-volt line. The IF output of T404 is coupled through capacitor C23 to demodulator Q4.

1-33. Demodulator (fig. 6-10)

Demodulator Q4 is operational only during the receive mode. Relay K3 (deenergized) connects the +9-volt line to the demodulator circuit. Demodulator Q4 receives an ssb IF signal from the IF amplifier and a 1,750-kc standard signal from the frequency generator module. The output of Q4 is the frequency difference between the two input signals. This frequency difference is the audio signal (voice or cw). The ssb IF signal is routed through capacitor C23 to the base of Q4. Base biasing of Q4 is provided by re-

sistors R12 and R13, which are bypassed by C24. The 1,750-kc standard is applied to connector J402 and routed through resistor R17 and capacitor C25 to the emitter of Q4. Resistor R16 provides emitter biasing, and inductor L5 holds the 1,750-kc standard signal above ground. Resistor R14 drops the +9-volt level before it is applied to the base and collector circuits. Variable resistor R415 is provided for adjusting the audio signal level to the audio amplifier. Capacitor C26 bypasses RF signals to ground. Capacitor C24 is a bypass filter for the base bias resistors. The audio signal is coupled through resistor R47 and capacitor C27 to audio amplifier Q5. In the transmit mode, the +9-volt line is disconnected from the demodulator circuit by relay K3 (energized).

1-34. Audio Amplifier (fig. 6-10)

The audio amplifier circuit, which includes amplifier Q5 and class B push-pull amplifier Q6 and Q7, is operational during all three modes: receive, calibrate, and transmit. During the receive and calibrate modes, audio signals from the demodulator are routed through resistor R47 and capacitor C27 to the base of amplifier Q5. During the transmit mode, audio signals from the microphone amplifier are routed through coupling capacitor C46 and resistor R18 to the base of Q5. The output of the microphone amplifier is applied to the audio amplifier to permit the operator to monitor side tones of the message being transmitted. Biasing of Q5 is provided by bias resistors R19 and R20. Resistor R21 insures thermal stability of Q5. The output of Q5 is applied to the primary winding of transformer T-5, which supplies a double-ended output to drive push-pull amplifier Q6 and Q7. Capacitor C28 provides a negative feedback path to neutralize the internal positive feedback of Q5. Matched transistors Q6 and Q7 conduct on alternate half cycles. When Q7 conducts, current flows through diode CR4 and resistor R23, developing a cutoff bias for Q6. When Q6 conducts, current flows through diode CR5 and resistor R24, developing a cutoff bias for Q7. Capacitor C29 and resistor R22 provide a negative feedback path from the push-pull

circuit to Q5, providing additional stabilization of the circuit. The output of the audio amplifier circuits is routed through coupling capacitor C30 and feedthrough capacitor C8 and terminal board TB202, pin 1, to headset jacks J201 and J202 (not shown in fig. 6-10). Normal audio output is 1 milliwatt into a 500-ohm headset.

1-35. Microphone Amplifier (fig. 6-10)

The microphone amplifier includes three direct-coupled stages, Q8, Q9, and Q10.

The microphone amplifier receives audio signals from either a microphone or tone oscillator Q11. The voice signal is generated at a microphone and is routed through terminal board TB202, pin 9, feedthrough capacitor C5, inductor L6, and capacitor C32 to the base of Q8. When a telegraph key or automatic Keyer KY-468/GRA-71 is used, the output of tone oscillator Q11 is routed through resistor R36 and capacitor C32 to the base of Q8. The input circuit consists of low-pass filter C5, C31, and L6, termination resistor R25, and coupling capacitor C32. Resistor R27 and capacitor C33 provide degenerative feedback for stabilization. The output of Q8, developed across load resistor R26, is applied directly to the base of Q9. Emitter resistor R46 provides degenerative feedback, stabilizing Q9. The output of Q9 is developed across load resistor R29 and is applied directly to the base of Q10. Resistors R33 and R31 are voltage dropping resistors. Capacitor C34 decouples ac signals from the +9-volt line. The output of Q10 is developed across potentiometer R432. The output is routed to the audio amplifier and the balanced mixer. Potentiometer R432 provides a means for adjusting the audio level applied to the balanced mixer.

1-36. Balanced Mixer (fig. 6-10)

Balanced mixer Z1 mixes the audio signal

from the microphone amplifier with a 1,750-kc unmodulated signal from the frequency generator module. The audio signal is taken from the arm of audio level control R432 and coupled through capacitor C36 to pin 8 of Z1. The 1,750-kc signal is applied to connector J402 and routed to pin 4 of Z1. The output of Z1 is a double-sideband, suppressed-carrier signal of 1,750 kc. The output is taken from the arm of balance control R434 and routed through the contacts of relay K1 (energized) to IF preamplifier Q1. Control R434 provides a means for adjusting the carrier balance for a symmetrical double-sideband signal.

1-37. Tone Oscillator

(fig. 6-10)

Tone oscillator Q11 generates a 2,000-cps tone when the telegraph key is pressed or when automatic Keyer KY-468/GRA-71 is in operation. The keying action grounds terminal board TB202, pin 6, which is connected to the junction of diode CR7 and resistor R42. The keying action also causes relay K3 to energize, disconnecting the +9-volt line to the IF amplifier. The frequency of oscillation is dependent on the values of tuned circuit L8, C37, C38, and C39. Regenerative feedback from the emitter is supplied through resistor R37. The feedback voltage is developed across resistor R40. Bias is provided by resistors R38, R39, and R41. Capacitor C40 functions as an ac bypass filter. Resistor R35 and diodes CR6 and CR7 form the oscillator disabling circuit. When the keying action stops, the oscillator disabling circuit immediately inhibits the tone oscillator. The output of the oscillator is taken from the junction of C38, C39, and R37 and routed through resistor R36 (AN/PRC-74B only) to the microphone amplifier circuit. In AN/PRC-74C resistor R36 is replaced by coupling capacitor C47 to eliminate transients due to microphone on/off keying.

Section VII. POWER AMPLIFIER MODULE ANALYSIS

1-39. General

(fig. 6-11)

The power amplifier module performs two functions: During the transmit mode of operation, it provides final amplification for signals

1-38. Cw Hold Circuit

(fig. 6-10)

The cw hold circuit, like the tone oscillator circuit, is operational during cw transmission only. When the telegraph key is pressed or automatic Keyer KY-468/GRA-71 is operating, the junction of diode CR7 and R42 is grounded. This forward-biases Q12 and causes it to saturate. Saturation of Q12 forward-biases Q13 and causes it to saturate also. When Q13 saturates, the output of TB202, pin 5, is almost at ground potential. This near-zero voltage is routed to the power supply module and energizes the receive-transmit relay, thereby effecting a transmit mode condition in the radio set. When the telegraph key is released, there is a delay of approximately 1 second before the radio set returns to the receive mode. The time delay keeps the radio set in the transmit mode between letters, where the time lapse is short, but returns the radio set to the receive mode between words, where the time lapse is long. This permits the distant operator to interrupt the transmission between words. When automatic Keyer KY-468/GRA-71 is keying the radio set, the rate of transmission is 300 words per minute. Because of this rate, the time between words is short and the radio set remains in the transmit mode for the duration of the transmission. Biasing of Q12 is provided by resistors R43 and R42. Capacitor C41 and resistors R45 and R43 provide the time constant for the 1-second delay when the telegraph key is released. Resistor R44 serves as a voltage dropping resistor. Diode CR8 isolates the circuit during voice transmission when the receive-transmit relay in the power supply module is enabled by the microphone switch.

being transmitted; during the receive mode of operation, it provides a path for incoming signals to the RF module. The only circuit in the power amplifier module that is used in both the transmit and receive modes of operation is the antenna coupler circuit. The re-

maining circuits are operational only during the transmit mode. During the receive mode, the antenna coupler circuit and the antenna relay route the received rf signal to the RF module. During the transmit mode, the power amplifier module receives RF signals from the RF module, amplifies the signals, and routes them through the antenna coupler to the antenna. The power amplifier stages are untuned except for the antenna tuning and loading controls (ANT TUNE and ANT LOAD), which are adjusted to match the final amplifier impedance with that of the antenna. The power amplifier module contains the following circuits: preamplifier, power amplifier, tuning indicator, transmit level control, overload limiter, and antenna coupler.

1-40. Preamplifier Circuit (fig. 6-11)

The preamplifier circuit, which includes Q1 through Q3, is a broadband amplifier, compensated to provide constant gain in the frequency range of 2 through 17.999 mc. The input signal at P801 is an RF signal from the RF module. First preamplifier stage Q1 is an impedance-matching, buffer amplifier. The input signal is coupled through coupling capacitor C1 to the base of Q1. Resistor R1 matches the impedance of the input source. Biasing for Q1 is provided by the overload limiter circuit and voltage divider resistors R2 and R3. The overload limiter circuit provides a constant voltage level unless the +40-volt line drops to +30 volts or less. When such an excessive drop occurs, the forward bias of Q1 decreases and the gain of the stage is reduced, resulting in an overall reduction of power for the power amplifier. The output of Q1 is developed across resistor R5 and is routed through coupling capacitor C3 to second preamplifier stage Q2. Stage Q2 base bias components consist of resistors R7 and R9 and diodes CR1 and CR2. Diodes CR1 and CR2 afford a low voltage source (approximately +1.5 volts) which is applied to the base of Q2 through resistor R7, and to the base of Q3 through resistor R10 and inductor L3. Capacitor C9 bypasses ac to ground, preventing interaction between the base of Q3 and the base of Q2. The pi filter,

consisting of L2, C7, and C10, prevents rf from entering the +9-volt enable line. The Q2 emitter bias circuit consists of resistor R8 and bypass capacitor C6. The output of Q2 is developed across inductor L1 and coupled through capacitor C5 to the base of third preamplifier stage Q3. In the base bias circuit of Q3, inductor L3 offers a low dc resistance path from the bias supply to the base; the RF impedance of L3 isolates the signal at the base. A negative feedback path consisting of R11 and C8 provides stability for the stage. Resistors R12 and R13 in the emitter circuit of Q3 form a voltage divider that supplies bias voltage to push-pull amplifier Q4 and Q5. Capacitors C11 and C12 bypass ac signals to ground. Inductor L4 and capacitor C13 form an rf decoupling network. The output of Q3 drives the primary of T1, supplying phase inversion for push-pull operation in the power amplifier circuit.

1-41. Power Amplifier Circuit (fig. 6-11)

The power amplifier circuit is connected in a class B, push-pull configuration. Signals from the secondary winding of transformer T1 are applied to final drive transistors Q4 and Q5, amplified, and applied to the primary winding of transformer T2. The bias voltage for Q4 and Q5 is obtained from the voltage divider in the emitter circuit of Q3. The slight forward-biasing supplied by R12 and R13 is supplemented by a small voltage through R19 to reduce crossover distortion in the push-pull amplifier. Capacitor C14 provides a negative feedback path to the primary of T1, insuring stability at the higher frequencies. Resistors R15 and R16 provide thermal stability. Capacitors C15 and C28 bypass RF signals to ground. Inductance L8 is used as a rf choke to increase stability of push-pull amplifier Q4 and Q5. The output is applied to the primary of transformer T2 and routed to the tuning indicator circuit.

1-42. Tuning Indicator Circuit (fig. 6-11)

The tuning indicator circuit supplies current to the ANT IND meter, which indicates the degree of impedance match existing between the antenna coupler and the final amplifying stage of the power amplifier. A maximum deflection of the ANT IND meter needle indi-

cates optimum impedance match; a minimum deflection indicates impedance mismatch. In addition to serving as an impedance matching indication, the meter reading is also a rough indication of power output. The tuning indicator circuit consists of diodes CR4 and CR3, resistors R21 through R25, capacitors C19 through C23, and inductor L6. Basically, the tuning indicator circuit consists of two dc supplies and an impedance bridge. One dc supply produces a constant, positive, 1-milliamper (ma) current. The other dc supply produces a negative current, the magnitude of which is dependent on the imbalance of the impedance bridge. When the impedance bridge is balanced, the negative current source supplies no current and the positive 1-ma current causes a maximum deflection on the ANT IND meter. When the impedance bridge is not balanced, the negative current source cancels the output of the positive current source, resulting in a low indication on the ANT IND meter. The positive dc supply consists of capacitors C21 and C22, diode CR4, and resistor R25. RF signals are applied to C21 from the secondary winding center tap of transformer T2. The RF signal is coupled through C21 and rectified by CR4, producing a +36-volt level. Resistor R25 limits the current to 1 ma. Capacitor C22 bypasses ac signals to ground. The impedance bridge consists of capacitors C19 and C23 on one leg, and resistors R21, R22, and R23 and antenna coupler L807 on the other leg. When the voltages across the antenna coupler and C23 are unequal, the antenna coupler impedance is not equal to that of the final amplifying stage of the power amplifier; when the voltages are equal, the impedances are matched. The negative dc supply consists of capacitor C20, diode CR3, inductor L6, and resistor R24. Diode CR3 and capacitor C20 connect the two legs of the impedance bridge. When an impedance imbalance exists between the junction of the two legs, the RF voltage is coupled through C20 and rectified by CR3, producing a negative dc voltage. Resistor R24 limits the current, and inductor L6 provides a dc path for the output of the negative dc supply.

1-20

1-43. Antenna Coupler Circuit (fig. 6-11)

a. General. The antenna coupler circuit is capable of matching a wide range of antenna impedances to either the power amplifier or the RF module. When the radio set is used in both the transmit and receive modes, the antenna is matched to the final amplifying stage of the power amplifier module. When the radio set is used in the receive mode only, the antenna is matched to the input stage of the RF module. The antenna coupler circuit consists of ANT connector J203, ANT LOAD switch S801, tapped coil L807, ANT TUNE control C825, and antenna relay K1.

b. Receive Mode Operation. During the receive mode of operation, RF signals intercepted by the antenna are coupled through ANT connector J203 to tapped coil L807. ANT LOAD switch S801 is an 18-position, front panel selector switch which selects one of the taps on L807. The ANT LOAD switch and ANT TUNE capacitor C825 are adjusted to provide optimum matching between the antenna and the RF module. The received signal is routed through antenna relay K1 (deenergized) to RF connector P802.

c. Transmit Mode Operation. During the transmit mode of operation, an amplified RF signal from the power amplifier circuit is routed through the tuning indicator circuit, through relay K1 (energized), and then applied to C825 and L807. The ANT LOAD switch and ANT TUNE control are adjusted for a maximum RF output as indicated on the front panel ANT IND meter.

1-44. Transmit Level Control Circuit (fig. 6-11)

The transmit level control circuit monitors the current being drawn by final power amplifying stage Q4 and Q5. The transmit level control output is routed to the gain control circuit (para 1-54, 1-55), which controls the gain of the RF module (para 1-21 through 1-28). The RF module output signal is then applied to the input of the power amplifier module. The gain of the transmit RF stages is thereby

stabilized by the transmit level control circuit and gain control circuit. The transmit level control circuit consists of resistors R17, R835, R18, and R20; inductor L5; capacitors C17 and C18; transistor Q6; and Zener diode VR3. Current drawn by Q4 and Q5 is routed through R18. Changes in the voltage across R18 are detected by Q6, applied to VR3, and routed to the gain control circuit. When the power amplifier output is high, the RF module gain is made lower, resulting in a small signal at the input of the power amplifier. Conversely, small power amplifier outputs result in higher RF module gain, and large input signals to the power amplifier. Inductor L5 and capacitor C17 prevent RF signals from affecting Q6. Resistor R835 initially is adjusted so that the collector voltage of Q6 is +21.5 volts. Zener diode VR3 (18 volts) drops the collector voltage before applying it to the gain control circuit. Diode VR3 also provides thermal compensation, offsetting the reaction of Q6 to thermal changes. Capacitor C18 bypasses RF signals to ground.

1-45. Overload Limiter Circuit

The overload limiter circuit consists of Zener diode VR1 resistor R4, and capacitors C2 and C16. The +40-volt supply output is applied to resistor R4 and Zener diode CR1 (27 volts).

Capacitors C2 and C16 bypass RF signals to ground. If the +40-volt supply fluctuations are small, the overload limiter circuit will provide first preamplifier stage Q1 with a constant bias voltage. When final power amplifying stage Q4 and Q5 is improperly loaded, excessive current is drawn from the +40-volt supply. The current limiter circuit in the +40-volt regulator (para 1-53) then reduces the output of the +40-volt supply to approximately +30-volts. This reduction in voltage decreases the forward bias of Q1 resulting in a smaller drive signal to Q4 and Q5. Consequently, the current requirements of Q4 and Q5 are reduced to a lower level. For efficient operation of the radio set, the antenna coupler circuit must be tuned so that Q4 and Q5 are properly loaded.

Section VIII. FREQUENCY GENERATOR MODULE ANALYSIS

1-46. General (fig. 6-12)

The frequency generator module generates a 1,750-kc signal for the modulation and demodulation circuits in the IF audio module, and a 10-kc calibration signal for the RF module when the radio set is being calibrated. To perform these functions, the frequency generator module contains a 1,750-kc frequency standard and a frequency divider chain. The frequency standard is a sealed unit which generates an extremely accurate 1,750-kc IF signal. The frequency divider is energized only in the receive calibrate mode; the 1,750-kc signal is divided into three stages to produce a 10-kc fundamental calibration signal.

1-47. Frequency Standard (fig. 6-12)

The frequency standard generates a 1,750-kc

signal during all three modes of operation. The output is routed to resistor R11 of the frequency divider and to the IF audio module. The output frequency is 1,750-kc ± 1.0 cps at a level of 1 volt root mean square (rms).

1-48. Frequency Divider (fig. 6-1)

The frequency divider consists of amplifier Q11, 250-kc frequency divider Q12, 50-kc frequency divider Q13, and 10-kc frequency divider Q14. The 1,750-kc output signal of the frequency standard is amplified by amplifier Q11 to drive 250-kc frequency divider (blocking oscillator) Q12, which divides the 1,750-kc signal by 7. The 250-kc frequency divider output is then applied to another blocking oscillator, 50-kc frequency divider Q13, which divides the 250-kc signal by 5. The 50-kc frequency divider output is then applied to 10-

kc frequency divider Q14, where it is again divided by 5 to produce the 10-kc calibration signal which is supplied to the RF module.

a. *Amplifier Q11.* Amplifier Q11 is an emitter follower driver circuit used to drive 250-kc frequency divider blocking oscillator Q12 and is also an impedance matching stage between the frequency standard and the frequency divider. When the PUSH TO CALIBRATE switch is pressed during the calibrate mode of operation, a -12-volt calibrate input is applied to the frequency divider, enabling the frequency divider circuits. The 1,750-kc signal from the frequency standard is supplied to the base of amplifier Q11. Impedance matching network C17 and R32 provides for optimum transfer of signal from the rf oscillator to amplifier Q11. Base bias for Q11 is developed by voltage dividing network R12 and R13. Emitter bias is provided by resistor R14. Diode CR11 limits the negative portion of the 1,750-kc signal output of Q11 so that only positive-going pulses are applied to the 250-kc frequency divider.

b. *250-Kc Frequency Divider Q12.* The 250-kc frequency divider is adjusted so that every seventh pulse of the 1,750-kc input signal from amplifier Q11 causes the blocking oscillator circuit of Q12 to trigger. The frequency at which the 250-kc frequency divider will operate is controlled by the rc time constant of 250-kc adjust potentiometer R515, resistor R16, capacitor C11, resistor R14, and 250-kc frequency divider Q12 tank circuits. The rc time constant is varied by 250-kc adjust R515, which changes the rate at which C11 will charge. Inductor L11 and capacitor C12 form a tank circuit, tuned to 625 kc, which oscillates each time Q12 is pulsed. As a result of the rc time constant of C11, R515, L11, and C12, the emit-

ter voltage of Q12 rises rapidly every seventh cycle (pulse) of the 1,750-kc input. A 250-kc signal is developed as a result of Q12 collector-to-base circuit interaction and the regenerative feedback across blocking oscillator transformer T11. Diode CR12 reduces secondary oscillations in the tertiary winding by providing a direct short for self-induced voltages in the secondary of transformer T11. The output from the secondary winding of T11 is applied to the primary of the 50-kc frequency divider blocking oscillator transformer T12.

c. *50-Kc Frequency Divider Q13.* The 50-kc frequency divider is a blocking oscillator which divides the 250-kc frequency divider output by 5 to produce a 50-kc output. The 50-kc frequency divider is similar to the 250-kc frequency divider. The principal difference is that the 50-kc frequency divider base circuit of Q13 does not have a tank circuit such as the 250-kc frequency divider. The 50-kc signal output of the divider is adjusted by 50-kc adjust potentiometer R520.

d. *10-Kc Frequency Divider Q14.* The 10-kc frequency divider divides the 50-kc frequency divider output by 5. The 10-kc adjust potentiometer R525 adjusts the output frequency of Q14. The output signal is the 10-kc calibration signal supplied through P502 to RF module input jack J701.

e. *Plus 6.8-Volt Regulator.* The +12-volt calibrate voltage is available when the PUSH TO CALIBRATE switch on the radio set front panel is pressed. Voltage regulation is provided by Zener diode CR15 (6.8 volts) and series resistors R80 and R81. Capacitors C15 and C16 filter the regulated voltage.

Section IX. POWER SUPPLY MODULE ANALYSIS

1-49. General (fig. 6-13)

The power supply module furnishes regulated dc power to the modules of the radio set. The outputs from the power supply module are different for the receive and transmit modes of operation. During the receive mode of operation, the power supply module provides +12

volts and +9 volts to the radio set. During the transmit mode of operation, the power supply module provides +12-volt transmit, +40 volts, and +9 volts to the radio set. The power input to the power supply module is controlled by the front panel OFF-ON-TUNE function switch. Power is applied to the power supply circuits only when the switch is in either ON or TUNE position.

1-50. Plus 9-Volt Regulator (fig. 6-13)

The +9-volt regulator receives +12 volts power from the front panel OFF-ON-TUNE function switch. The base of transistor Q5 is held at +9 volts because of the Zener action of Zener diode CR8. This holding action causes the emitter voltage to remain at +9 volts regardless of load or source fluctuation. Diode CR7 is a temperature compensation diode for Q5. During the transmit mode of operation, the load is heavy and the battery voltage may decrease. This condition may cause the base voltage of Q5 to decrease beyond the capabilities of CR8. To offset this condition, the +40-volt transmit is connected through R7 to CR8, keeping the base of Q5 at +9 volts. As a result of this action, the +9-volt enable will remain constant. Varistor R6 also decreases in resistance as the battery voltage decreases, which helps in maintaining a constant current through CR8.

1-51. Receive-Transmit Relay (fig. 6-13)

Receive-transmit relay K1 is energized when a ground appears on pin 1 of terminal board TB201 (fig. 6-1). During the transmit mode of operation, relay K1 is energized and couples +12-volt power from the function switch to the +40-volt regulator and dc-to-dc converter, in addition to delivering the +12-volt transmit voltage to other relays and circuits in the radio set. The +12 volts is supplied to PUSH TO CALIBRATE switch S202 only during the receive mode of operation by K1. As a result, it is impossible for the radio set to be calibrated while transmitting. Diode CR6 removes the transient surge caused by the collapsing field when K1 is deenergized.

1-52. Dc-to-Dc Converter (fig. 6-13)

The dc-to-dc converter changes the +12 volts

dc supplied by the PP-4514/PRC-74 to a high voltage required by the power amplifier module during the transmit mode of operation.

a. Oscillator. Transistors Q1 and Q2 are arranged as a saturable-core square wave oscillator. The +12-volt input is applied through fuse F1, low-pass filter L1 and C1, energized contacts of relay K1, to the emitters of Q1 and Q2. Base bias is provided by resistors R1 and R2 with bypass capacitor C6. Collector-to-base regenerative feedback is accomplished by the induced voltage in the secondary of transformer T1 (connected to the base). The oscillator output is coupled to a rectifier through the secondary of T1.

b. Rectifier. The input from the T1 secondary is applied to diodes CR1 through CR4. The diodes are connected as a full-wave bridge rectifier. The +46-volt output from the rectifier is filtered by capacitors C1 through C3 and then is applied to the +40-volt regulator.

1-53. Plus 40-Volt Regulator (fig. 6-13)

Transistor Q3 is part of a series regulator circuit controlled by transistor Q4. The base of Q4 is regulated by Zener diodes CR5 and CR9. Base bias for Q6 is developed across resistor R5. Capacitor C4 acts as a filter, and varistor R3 minimizes voltage variations resulting from temperature changes. Transistor Q6 is a current limiter and functions as follows:

a. When the voltage drop across resistor R5 becomes great enough to cause Q6 to conduct, the change in current drawn by the collector of Q6 causes the voltage at the emitter of Q4 to decrease.

b. As the voltage at the emitter of Q4 is lowered, the output voltage decreases.

c. As the output voltage decreases, the load current decreases.

Section X. GAIN CONTROL CIRCUITS ANALYSIS

1-54. General (fig. 6-14)

The components of the gain control circuits are

mounted on chassis-mounted parts board TB203. Figure 6-14 is a schematic diagram of the gain control circuit.

1-55. Circuit Analysis (fig. 6-14)

a. The voltage divider circuit formed by potentiometer R206 and resistors R7 and R8 provides gain control bias voltages for the RF module. The voltage divider circuit formed by potentiometer R210 and resistors R9 and R11 provides gain control bias for the IF audio module. Potentiometer R201 (R. F. GAIN control, fig. 6-1) provides a means of adjusting the receiver gain adjust voltage applied to the base of transistor Q4.

b. The bias voltage developed across the RF and IF gain control circuits may be adjusted by either the receiver gain adjust input or the transmit level control input. Transistors Q1 and Q2 are in the transmit level control circuit, and transistors Q3 and Q4 are in the receiver gain adjust circuit. Gain is reduced when the R. F. GAIN control is adjusted to increase the forward bias of Q4. When Q4 conducts, the emitter voltage is raised. Diode CR1 or CR2 conducts if the emitter voltage of Q4 becomes higher than the output voltage of either the RF maximum gain adjustment circuit or the IF maximum gain adjustment circuit. The RF and IF gain control voltages supplied to the IF audio and RF modules are positive (forward-biasing) voltages.

c. During the calibrate mode of operation, maximum forward bias is applied to the base of transistor Q3 through resistor R3. With maximum conduction through Q3, the base of Q4 is brought to near ground potential. This action insures that gain is at maximum dur-

ing the calibrate mode regardless of the receive gain adjust input.

d. During the transmit mode of operation, maximum forward bias is supplied to the base of transistor Q3 through resistor R2. With maximum conduction through transistor Q3, the base of Q4 is brought to nearly ground potential. The +12-volt potential applied to the base of Q3 is also supplied through resistor R15 to the collectors of transistors Q1 and Q2 and activates the transmit level control circuit during the transmit mode of operation. When the output of the power amplifier module reaches the proper amplitude, a positive voltage appears at the transmit level control (tlc) input. This positive input voltage is applied through voltage divider network R12 and R13 to the base of Q1. Capacitor C10 is an RF ground. When Q1 is biased for conduction, Q2 also conducts. When Q2 conducts, its emitter voltage is raised. Diode CR1 or CR2 conducts if the emitter voltage of Q2 becomes higher than the output voltage of either the RF maximum gain adjustment circuits or the IF maximum gain adjustment circuit. Either one, or both, of the diodes may conduct. Capacitor C13 bypasses rf signals to ground.

e. Potentiometer R885 (power amplifier module, fig. 6-11) is adjusted so that the gain control circuits stabilize when the transmitter output power is approximately 15 watts. Transistor Q1 (fig. 6-14) provides a charge source for capacitor C9. As the tlc voltage drops, C9 discharges slowly through resistor R14 and transistor Q2.

Section XI. POWER SUPPLY PP-4514/PRC-74 ANALYSIS

1-56. General (fig. 6-15)

The PP-4514/PRC-74 provides dc voltages to the radio set power supply module when the radio set is connected to commercial or battery power at a fixed station. In addition, the unit is capable of recharging the wet battery that powers the radio set when it is man-carried.

1-24

1-57. PP-4514/PRC-74 Circuit Analysis (fig. 6-15)

a. *General.* The power supply subassembly is capable of converting 21- to 31-volt dc, 80- to 130-volt ac, and 160- to 255-volt ac external power inputs into a dc voltage suitable to power the radio set. Only one of the three inputs is provided at a time to the PP-4514/PRC-74 by connecting one of three appro-

priate accessory cables to jack J1. Dc power inputs from a remote source are applied directly to the PP-4514/PRC-74 regulator circuits. Ac power inputs are rectified to dc prior to being regulated. The power supply subassembly, in conjunction with circuits on the assembly case, provides for conversion of the dc or ac voltages into a dc power input for the radio set.

b. Power Turn-On and Protection Circuits. The power turn-on and protection circuits of the PP-4514/PRC-74 consist of POWER ON switch S1 and fuses F1 through F3. POWER ON switch S1 is a four-pole, single-throw toggle switch. The ac or dc power inputs to the switch are connected to S1 through filter capacitors C1 through C5 on the module case assembly. The switch section of S1 that is connected to the dc power input of +21 to +31 volts dc routes the voltage through 15-ampere fuse F1 to the +12-volt regulator circuit and the battery charger. The sections of S1 that receive 80- to 130-volt ac and 160- to 255-volt ac inputs from the filter capacitors supply line voltage through 2-ampere protection fuse F2 and 4-ampere protection fuse F3, respectively, to a bridge rectifier circuit consisting of power transformer T1 and diodes CR1 through CR4 on the module case assembly. The rectifier converts the ac voltage input to +20 to +40 volts. The output of the rectifier is routed to the inputs of the +12-volt regulator circuit and the external battery charger. The dc return lines of the dc input and the rectifier circuit are connected to the switching regulator stages of the +12-volt regulator and external battery charger.

c. Plus 12-Volt Regulator Circuit. The +12-volt regulator circuit of the PP-4514/PRC-74 consists of switching regulator Q5 and Q1, regulator control transistors Q2 and Q4, fuse F4, short protection switch Q3, overload protector Z1, and voltage reference diode CR5. Power indicator DS1 indicates the presence of a dc power input to the PP-4514/PRC-74. The +12-volt regulator circuit is series regulated. Increases or decreases in output load cause current to increase or decrease across output load resistors R6 and R9 of the power supply, which are connected to the base

of Q4. The emitter of Q4 is connected to voltage reference diode CR5, which is a 6.2-volt breakdown device. With the Q4 emitter connected to a fixed reference, any increase or decrease in the voltage at the base of Q4 will cause its conduction to change. With an increase in output load, current increases through the power supply load, causing a higher negative voltage to be developed at the base of Q4. With a high negative potential at the base of Q4, conduction through Q4 increases, causing the base of Q2 to become more positive. With its base voltage increased, Q2 conducts, short-circuiting the emitter of Q5 to the base of Q1 through Q2, causing Q1 and Q5 to turn off. Clamping diode CR2 between the emitter and base of Q2 prevents emitter to base breakdown of Q2. Resistor R17 between the emitter and base of Q5 holds the base slightly positive to insure complete turnoff. With Q5 and Q1 off, the supply voltage drops sharply toward 0 volt, causing Q4 to be biased Off. Since short protection switch Q3 conducts at all times (except during a short-circuited condition at the supply output), the switching regulator is biased on again and the same switching action occurs. The switching action depends on the input dc level and output load conditions. Short protection switch Q3 protects the regulator circuit from damage by removing positive voltage from the base of switching regulator Q1. A short circuit at the PP-4514/PRC-74 places the emitter bias at a higher level than the base, causing Q3 to turn off. Overload protector Z1 protects the PP-4514/PRC-74 from high overload conditions. Capacitor C2 across the output line acts as a load to prevent the PP-4514/PRC-74 from shutting off when the rt unit is turned off.

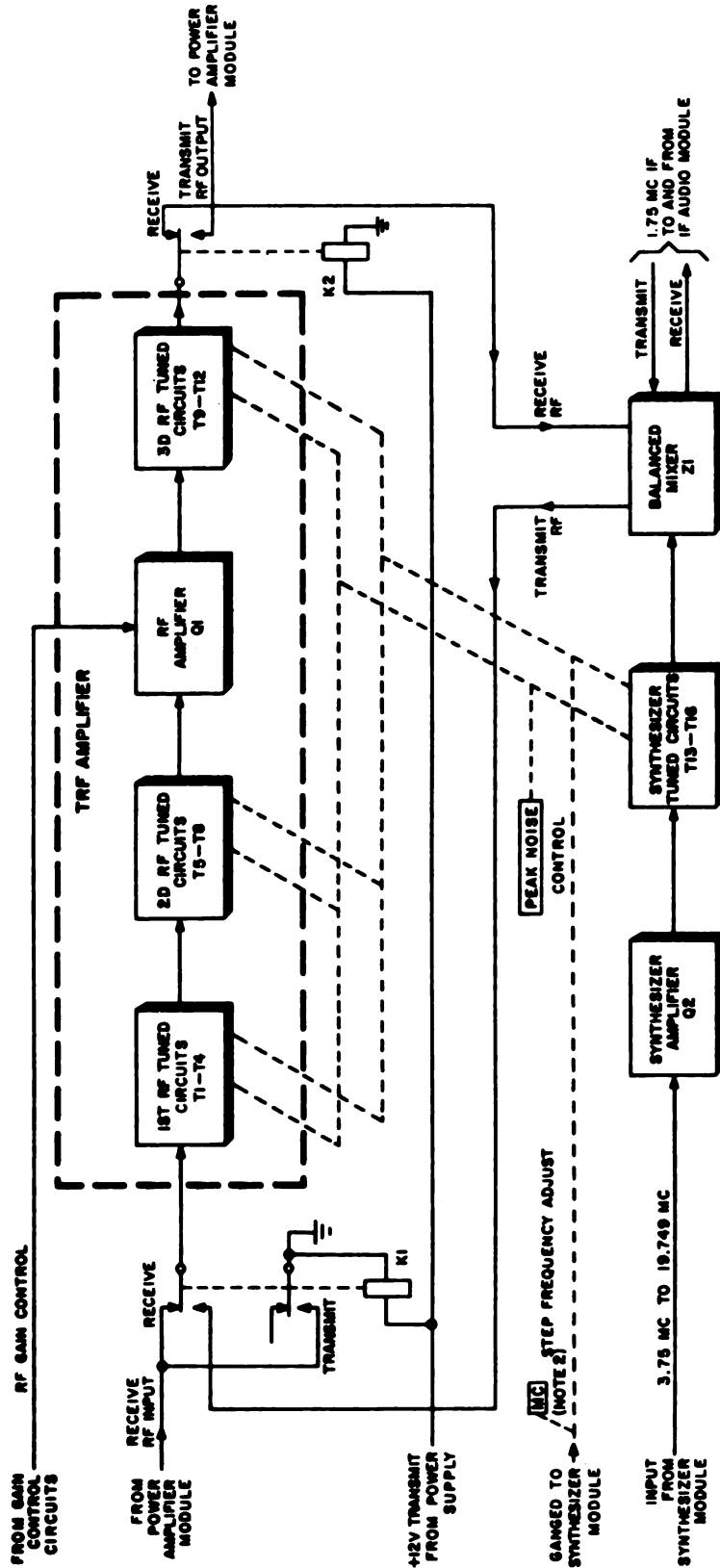
d. Meter Monitoring Circuit. A front panel METER switch and meter provide for monitoring battery voltage (BATTERY VOLTS), radio voltage (RADIO VOLTS), and charging current (CHARGE AMPS). Meter M1 is a 0.1-volt dc meter with inputs selected by METER switch S2.

1-58. Battery Charger (fig. 6-15)

Operation of the battery charger is similar to that of the power supply subassembly except for minor circuit

differences. Resistor R14 and capacitor C5 make up a rc network with correct time constant for positive starting under all load conditions. The battery charger utilizes CHARGING CURRENT potentiometer R11 as a bias control for the base of transistor Q4. The CHARGING

CURRENT potentiometer provides minimum to maximum adjustment of battery charging current from 1 to 5 amperes. On PP-4514A/PRC-74 the anode of CR4 connects directly to B+ allowing meter M1 to monitor only that charging current supplied to the wet battery.



- NOTES:
- 1. [] INDICATES EQUIPMENT MARKING.
 - 2. AM/PRC-74C EQUIPMENT MARKED IN HERTZ (Hz) INSTEAD OF CYCLES (C).

Figure 1-1. RF module block diagram.

TM 11-5820-590-35-1-C1-1

CHAPTER 2

DIRECT SUPPORT MAINTENANCE

Section I. TROUBLESHOOTING

2-1. General Instructions

The direct and general support maintenance procedures in this manual supplement the procedures described in the operator's and organizational maintenance manual (TM 11-5820-590-12-1). The systematic troubleshooting procedure, which begins with the operational and sectionalization checks that can be performed at the operator's and organizational maintenance category, is carried to the higher maintenance categories in this manual. Sectionalizing, localizing, and isolating techniques used in the troubleshooting procedures are more advanced. Paragraphs 2-1 through 2-10 provide functional troubleshooting procedures, and paragraphs 2-11 through 2-17 provide repair instructions to be performed by direct support maintenance personnel.

2-2. Organization of Troubleshooting Procedures

a. General. The first procedure in servicing a defective radio set is to sectionalize the fault. Sectionalization means tracing the fault to a major component. The second procedure is to localize the fault. Localization means tracing the fault to a defective stage or part responsible for the abnormal condition. Some faults, such as burned-out resistors, arcing, and shorted transformers, can often be located by sight, smell, and hearing. The majority of faults, however, must be isolated by voltage measurements or signal substitution.

b. Sectionalization. The following is a group of tests arranged to reduce unnecessary work and to aid in tracing trouble in a defective radio set. The first procedure is to locate the

unit or units at fault by the following methods:

(1) *Visual inspection.* Visual inspection locates obvious defects without testing or measuring circuits.

(2) *Operational tests.* Operational tests frequently indicate the general location of trouble. In many instances, the tests will help in determining the exact nature of the fault. Operating procedures are given in chapter 3, TM 11-5820-590-12-1.

c. Localization. After the trouble has been sectionalized (*b* above), the methods in (1) and (2) below will aid in localizing the trouble to a stage or module in the suspected unit. Test equipment indications, or lack of indications, and operational checks (para 2-4 through 2-10) provide a systematic method of localizing trouble to a stage or module. The trouble symptoms listed in the module troubleshooting procedures provide additional information for localizing troubles.

d. Isolation. After the trouble has been localized (*c* above), the methods in (1) and (2) below will aid in isolating the trouble to a defective circuit element.

(1) *Voltage measurements.* This equipment is transistorized. When measuring voltages, use tape or sleeving (spaghetti) to insulate the entire test prod, except for the extreme tip. A momentary short circuit can ruin the transistor. Use the same or equivalent multimeter specified (para 2-3).

(2) *Intermittent troubles.* In all the tests, the possibility of intermittent troubles should not be overlooked. If present, this type of trouble often may be made to appear by tap-

ping or jarring the equipment. Make a visual inspection of the wiring and connections to the units of the set. Minute cracks in printed circuit boards can cause intermittent operation. A magnifying glass is often helpful in locating defects in printed boards.

2-3. Test Equipment Required

Caution: This equipment contains transistor circuits. If any equipment item does not have an isolation transformer in its power supply circuit, connect one in the power input circuit. Observe the following:

1. Never connect test equipment (other than multimeter outputs) directly to a transistor circuit; use a coupling capacitor.

2. Make test equipment connections with care so that short circuits will not be caused by exposed test equipment connections. Tape or sleeve (spaghetti) test prods or clips as necessary to leave as little exposed as needed to make contact to the circuit under test.

3. Make sure that a normal load (such as a headset) is connected to the radio set before applying power.

4. Do not operate the radio set in the transmit condition unless an antenna or a dummy load is connected to the ANT and GND terminals.

The following test equipment is authorized to direct support personnel for troubleshooting the radio set.

- a. R. F. Signal Generator Set AN/URM-25D (signal generator) (two required).
- b. Counter, Electronic Digital Readout AN/USM-207 (frequency meter).
- c. Multimeter ME-26B/U.
- d. Multimeter TS-352B/U (multimeter).
- e. Voltmeter, Electronic ME-30B/U.
- f. Power Supply, Hewlett-Packard HP6439A (power supply).
- g. Tool Kit, Electronic Equipment TK-100/G.

h. Tool Kit, Electronic Equipment TK-105/G.

i. Resistor, 500 ohms, 1/2 watt.

j. Dummy load, 50 ohms, 20 watts.

k. Hewlett-Packard TEE Connector No. 11042A (T-connector).

l. Attenuator, Variable CN-796/U (variable attenuator).

m. Use Power Supply PP-4514/PRC-74 (or equivalent) as the power source during troubleshooting procedures. Connect the power supply to jack J801 on the radio set. Figures 2-2 and 2-4 show the method of connection if an alternate power supply is used.

n. When an extra, aligned frequency synthesizer module is available, use the extra frequency synthesizer module in place of a signal generator to supply the necessary signals.

2-4. Radio Set Receive Mode Test

(fig. 2-1 and 2-2)

The troubleshooting test in a through m below will aid the repairman in determining that the radio set is functioning properly in the receive mode. The radio set case must be removed to gain access to adjustments.

- a. Remove the radio set case (para 2-12).
- b. Connect the signal generator to a variable attenuator. Set the variable attenuator to 20 decibels (db). Then connect the variable attenuator to the ANT and GND terminals of the radio set (fig. 2-2).
- c. Set the signal generator to 2.001 mc at an output level of 7.0 microvolts (uv).
- d. Connect the audio dummy load to pins A and B of J201.
- e. Connect the ME-30B/U across the load.
- f. Connect the AN/USM-207 across the dummy load. Set the controls for a 1,000-cps reading.
- g. Connect the power supply to pins 2, 3 and 5, 6 of J801.
- h. Set the radio set frequency selector con-

trols to 2.000 mc. Set the OFF-ON-TUNE control to ON.

i. Turn the R. F. GAIN control fully clockwise, and adjust the PEAK NOISE control for maximum audio output. If necessary, tune the signal generator so that an output of 1 kc is shown on the frequency meter.

j. Adjust the ANT TUNE and ANT LOAD controls for maximum audio output.

k. Adjust resistors R206 and R210 (fig. 2-1) for maximum output. Adjust T717 for maximum output. Check for an ME-30B/U meter indication of not less than 0.707 volt rms.

l. Repeat the procedures in *h* through *j* above with the radio set tuned to frequencies of 4.000, 7.000, 12.000, and 17.000 mc and the signal generator tuned to 4.001, 7.001, 12.001, and 17.001 mc for each frequency.

m. Check for a meter reading of not less than 0.707 volt rms at each frequency setting. If the indication is less than 0.707 volt rms for any of the frequency settings, the radio set is not functioning properly in the receive mode and further testing is required to isolate the defective module (para 2-6).

2-5. Radio Set Transmit Mode Test

Many circuits in the radio set are common to both the transmit and receive modes; therefore, when the transmitter is not working properly, the radio set should first be checked as described in paragraph 2-4 before performing the transmitter test in *a* through *h*.

a. Connect a 50-ohm, 20-watt dummy load and the ME-30B/U to the opposite ends of a T-connector.

b. Connect the T-connector as illustrated in figure 2-2.

c. Tune the radio set to 11.555 mc as described in TM 11-5820-590-12-1.

d. Hold the OFF-ON-TUNE selector switch at the TUNE position.

e. Adjust resistor R835 (fig. 2-3) until the unmodulated output power (as indicated on the ME-30B/U) is 25.5 volts rms.

f. Connect the microphone to one of the AUDIO connectors.

g. Speak or whistle into the microphone and check for power output peaks of 24.5 to 37 volts on the ME-30B/U.

h. Repeat the procedures in *e* through *h* above with the radio set tuned to frequencies of 2.000, 4.000, 7.000, 12.000, and 17.000 mc. Check for a continuous wave output power of not less than 24.5 volts rms at all test frequencies and modulated power output peaks of 24.5 to 37 volts. If the meter indications are not within the range specified, the radio set is not functioning properly in the transmit mode and further testing is required to isolate the defective module (para 2-7).

2-6. Receiver Troubleshooting

(fig. 2-1)

With test equipment connected as shown in figure 2-2 (receive), turn the radio set on and perform the checks in *a* through *d*.

Note. Unless otherwise stated, restore all module inter-connections at the conclusion of each test.

a. *Power Supply Module.* Use Multimeter ME-26B/U, and check the radio set power supply module as follows:

(1) Connect the multimeter between pins 7 and 8 of TB201.

(2) Check to see that the multimeter indicates between 8.4 to 9.6 volts.

(3) If this indication is not obtained, the power supply module is defective. Replace the power supply module (para 2-12).

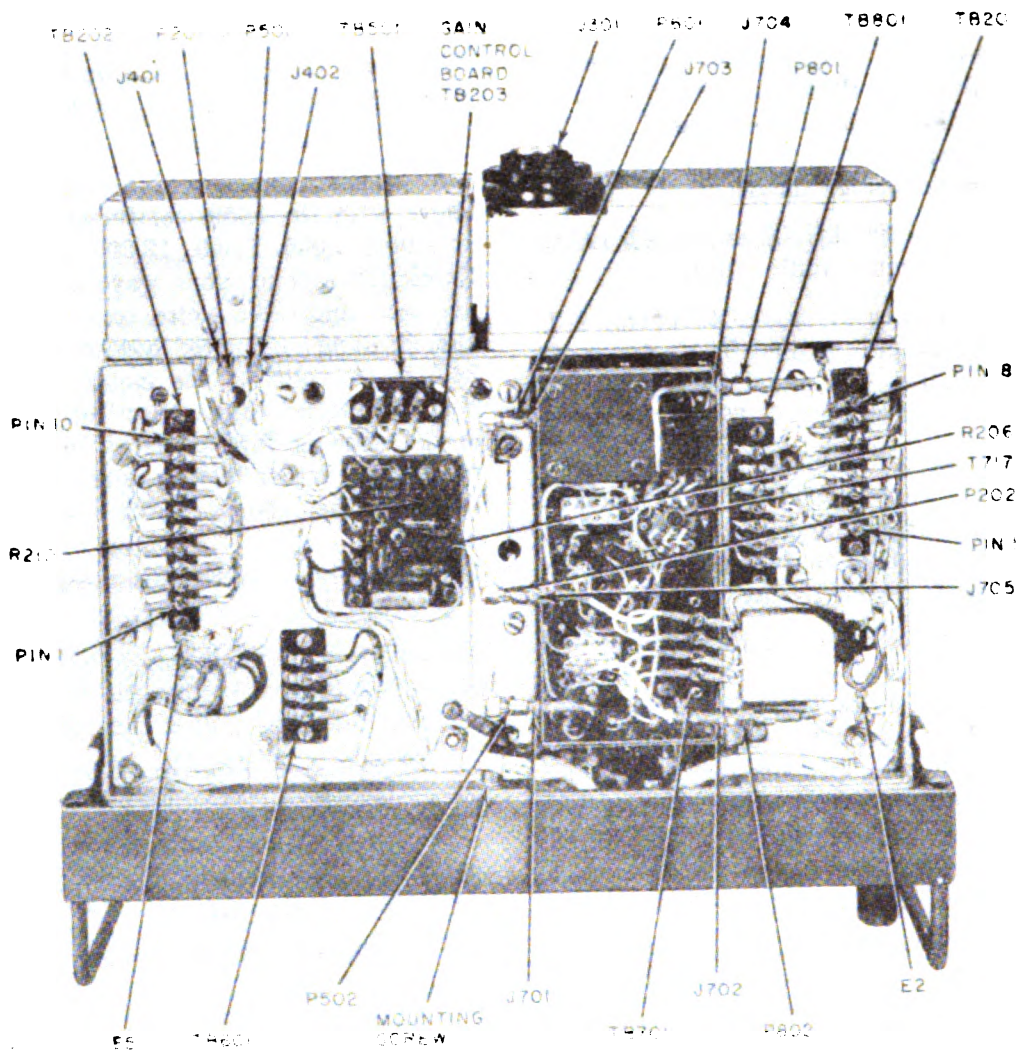
b. *Frequency Synthesizer.* Check receiver sensitivity; use the AN/URM-25D in place of the frequency synthesizer.

(1) Disconnect P601 from J703 of the RF module.

(2) Connect the signal generator to J703.

(3) Set the signal generator frequency to 1.750 mc above the radio set frequency setting (as indicated on the front panel).

(4) Set the signal generator output level to 100 millivolts (mv).



TM 11-5820-590-35-2

Figure 2-1. Radio set, bottom view, case removed.

(5) If the audio voltage as measured on the ME-30B/U (fig. 2-2) is 0.707 volt rms or greater with this arrangement, the frequency synthesizer is defective. Replace the frequency synthesizer (para 2-12). If no voltage is measured, proceed to *c* below.

c. Rf Module. Check the RF module as follows:

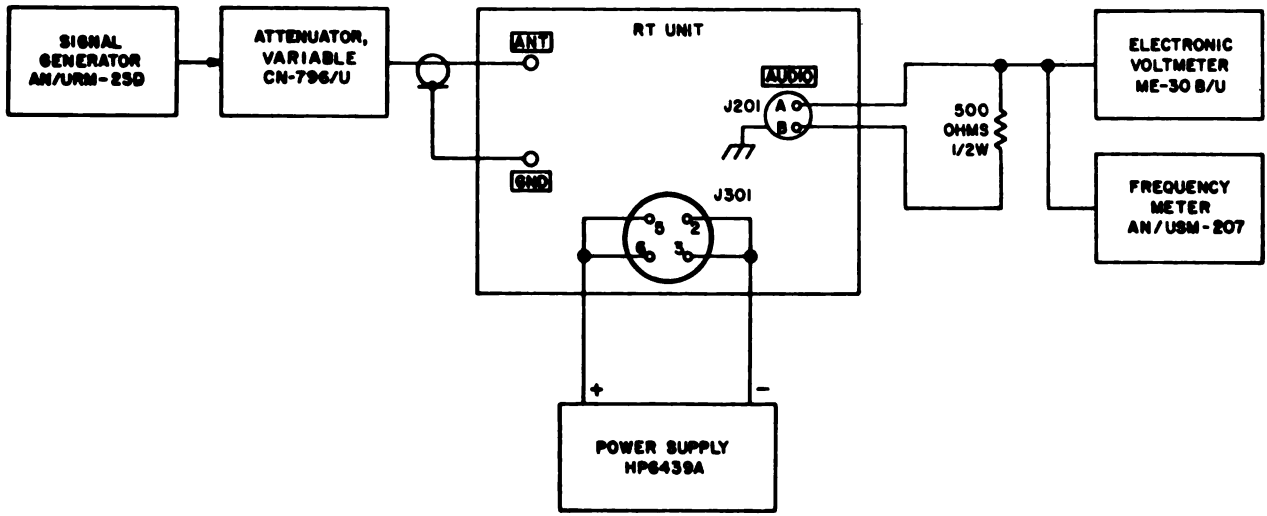
- (1) Disconnect P201 from J401 of the IF module.
- (2) Connect the AN/URM-25D to J401.

(3) Set the signal generator frequency to 1.749 mc.

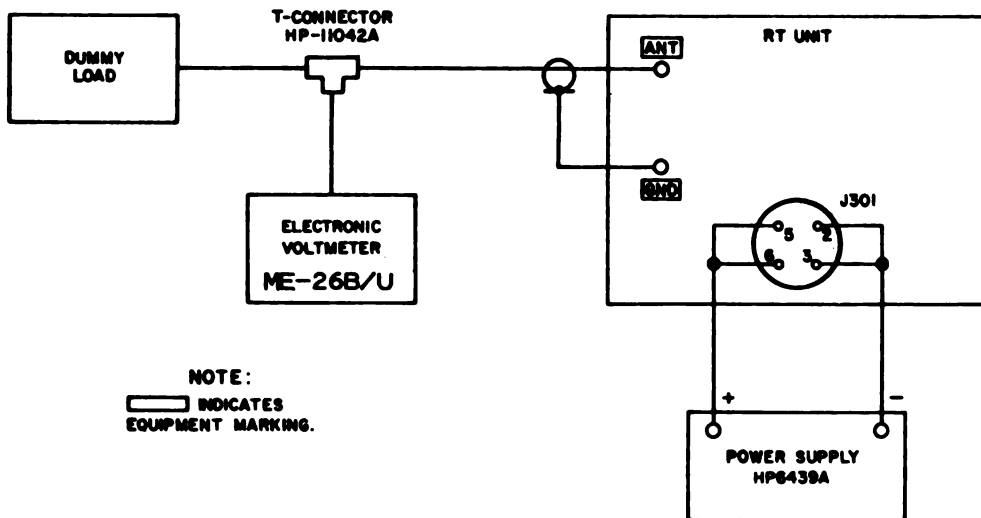
(4) Set the signal generator output level to 30 microvolts.


(5) If the audio voltage (as measured on the ME-30B/U) is greater than 0.707 volt rms the RF module is defective. Replace the RF module (para 2-12). If no voltage is measured, proceed to *d* below.

d. IF Audio and Frequency Generator. Check the IF audio and frequency generator; use two AN/URM-25D's (or equivalent).



A. RECEIVE



NOTE:
 INDICATES
 EQUIPMENT MARKING.

B. TRANSMIT

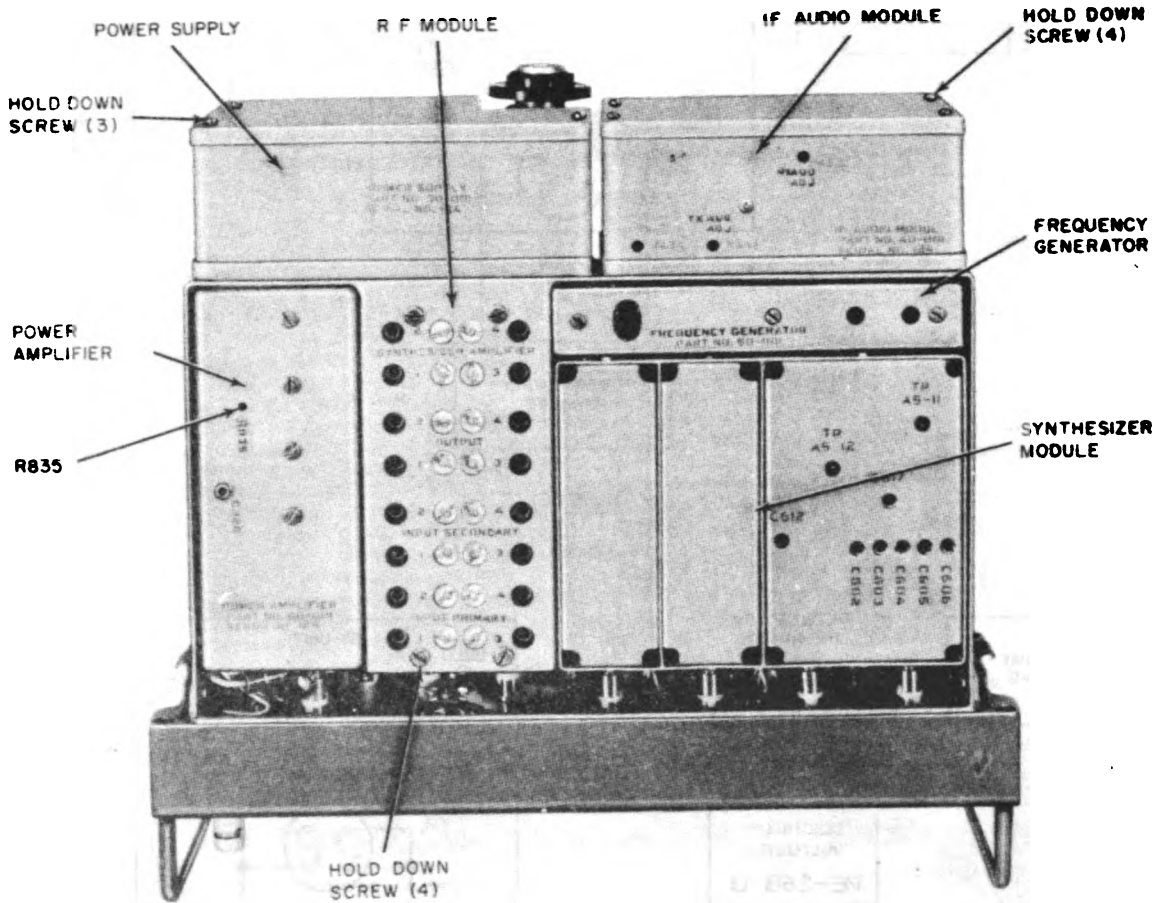
TM5820-590-35-1-C3-3

Figure 2-8. Radio set, receive and transmit mode test setup.

- (1) Disconnect P201 from J401 of the IF module.
- (2) Connect signal generator No. 1 (fig. 2-4) to J401 through the variable attenuator. Adjust the variable attenuator to 20 db.
- (3) Set the frequency of signal generator No. 1 to 1.749 mc.
- (4) Set the output of signal generator No. 1 to 30 microvolts.

- (5) Disconnect P501 from J402 of the IF module.
- (6) Connect signal generator No. 2 to J402.
- (7) Set the frequency of signal generator No. 2 to 1.750 mc.
- (8) Set the output level of signal generator No. 2 to 1 volt rms.
- (9) If audio voltage is restored, the fre-

Change 3 2-5



TM5820-590-35-1

Figure 2-3. Radio set, top view.

frequency generator module is defective. Replace the frequency generator module (para 2-12).

(10) If audio output is not restored, the IF audio module is defective. Replace the IF audio module (para 2-12).

2-7. Transmitter Troubleshooting
(fig. 2-1)

Connect the radio set to the power supply as shown in figure 2-2 (transmit). Check the radio set in the transmit mode as follows:

a. *Power Supply Module.* Use Multimeter TS-352B/U, and check the power supply module as follows:

(1) Connect a 50-ohm, 20-watt dummy load between the ANT and GND terminals of the radio set.

(2) Check the power supply module as given in the chart below.

Check point	Measurement (volts)	Limits (volts)
TB201-7	+9	8.4 to 9.6
TB201-5	+12, transmit	10.5 to 17
TB201-3	+40, transmit	39.0 to 44.0

Notes. Rotate OFF-ON-TUNE control to TUNE position when measuring +12 volts and +40 volts.

(3) If any of the voltage measurements in (2) above are not indicated, the power supply module is defective. Replace the power supply module (para 2-12).

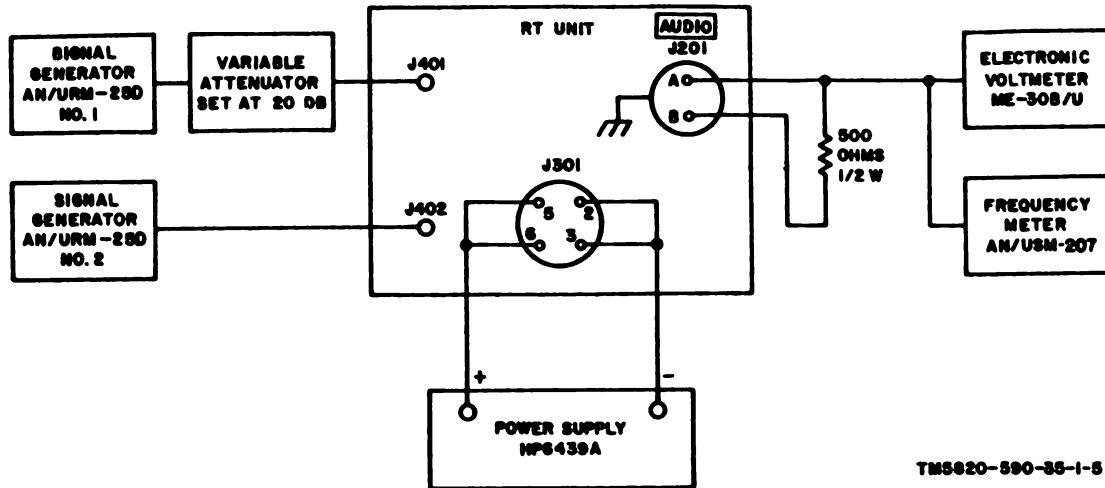
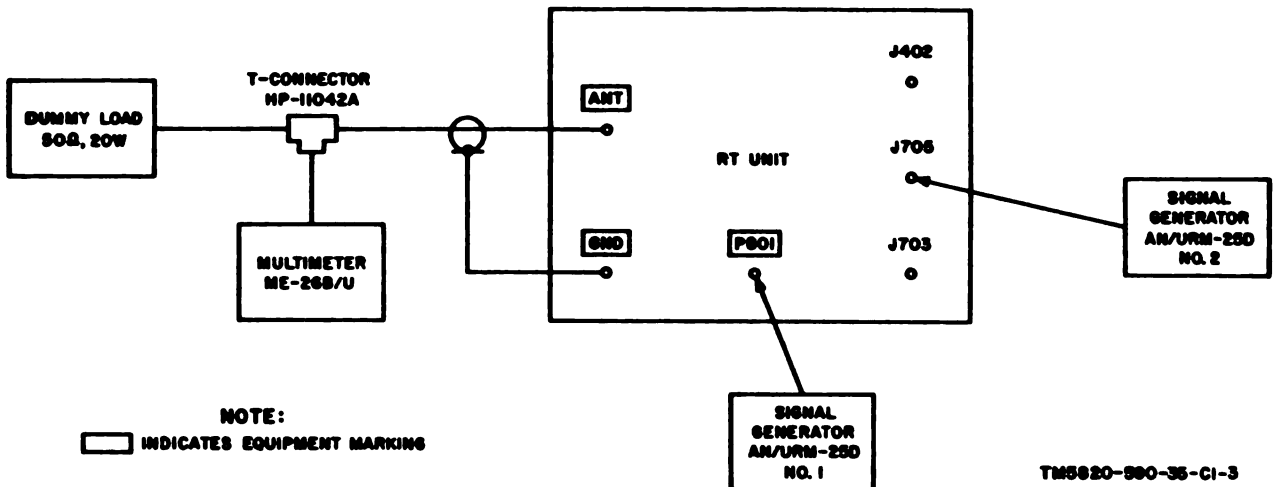


Figure 2-4. IF and frequency generator fault isolation test setup.



NOTE:
 □ INDICATES EQUIPMENT MARKING

Figure 2-5. Transmit mode fault isolation test setup.

Nota. Before measuring any output signals in *b* through *e* below, set the OFF-ON-TUNE switch to TUNE.

b. Power Amplifier Module.

(1) Connect Multimeter ME-26B/U and the 50-ohm, 20-watt dummy load across the ANT and GND terminals (fig. 2-5).

(2) Disconnect P801 of the power amplifier module from J704 of the RF module (fig. 2-1).

(3) Connect AN/URM-25D No. 1, or equivalent, to P801.

(4) Set the signal generator to 2 mc at 70 mv.

(5) Hold the OFF-ON-TUNE switch at TUNE.

(6) Adjust the ANT TUNE and ANT LOAD controls for a maximum indication on the ANT IND meter.

(7) Adjust the signal generator level for an indication of 24.5 volts rms at the power amplifier output (on Multimeter ME-26B/U).

(8) The signal generator output level shall be less than 70 mv.

(9) Repeat the procedures in (5) through (8) above with the signal generator set at 18 mc.

(10) If the output is less than 24.5 volts rms at either 2 mc or 18 mc, the power amplifier module is defective. Replace the power amplifier module (para 2-12).

(11) If the power amplifier module passes the test, connect P801 to J704 and proceed with *c* below.

c. Frequency Synthesizer Module (fig. 2-1).

(1) Disconnect P601 from J703 of the RF module.

(2) Connect AN/URM-25D No. 1 to J703 on the RF module.

(3) Set the signal generator frequency to 3.750 mc.

(4) Set the signal generator output level to 100 millivolts.

(5) Tune the radio set to 2.000 mc.

(6) If the voltage output is 24.5 volts rms, the frequency synthesizer module is defective. Replace the frequency synthesizer module (para 2-12).

(7) If there is low or no output, leave test equipment connected for the test in *d* below.

d. RF Module (fig. 2-1).

(1) Disconnect P202 from J705 of the RF module.

(2) Connect a second AN/URM-25D to J705 on the RF module (fig. 2-5).

(3) Set the signal generator No. 2 frequency to 1.750 mc.

(4) Set the signal generator No. 2 output level to 260 millivolts.

(5) Tune the radio set to 2.000 mc.

(6) If the voltage output is 24.5 volts rms, the RF module is defective. Replace the RF module (para 2-12).

(7) If 24.5 volts rms output is obtained, leave the multimeter and signal generator No. 1 connected for the test in *e* below.

e. IF Audio and Frequency Generator Modules (fig. 2-1).

(1) Disconnect P501 from J402 of the IF audio module.

(2) Connect signal generator No. 2 to J402 of the IF audio module (fig. 2-5).

(3) Connect P202 of the IF audio module to J705 of the RF module.

(4) Set the signal generator No. 2 frequency to 1.750 mc.

(5) Set the signal generator output level to 1 volt rms.

(6) Tune the radio set to 2.000 mc.

(7) If the output voltage is less than 24.5 volts rms, the IF module is defective. Replace the IF audio module (para 2-12).

(8) If an output of 24.5 volts rms or greater is obtained, the frequency generator module is defective. Replace the frequency generator (para 2-12).

(9) Restore all connections.

2-8. ANT IND METER M201

To check ANT IND meter M201, proceed as follows:

a. Connect the power supply to terminal 4 (+) of TB201 (+) (fig. 2-1) and ground.

b. Set the power supply to +15.5 volts +5 percent.

c. Check to see that ANT IND meter M201 is deflected approximately full scale.

d. Disconnect the power supply, and check to see that the ANT IND meter M201 needle moves smoothly to the zero position without sticking.

e. If meter M201 does not indicate full scale when power is applied or if the meter needle is sticking when power is removed, the meter is defective. Replace meter M201 (para 2-14).

2-9. Gain Control Circuit Test

(fig. 2-1 and 2-6)

Use Multimeter ME-26B/U to test the radio set gain control circuit given in *a* through *c* below.

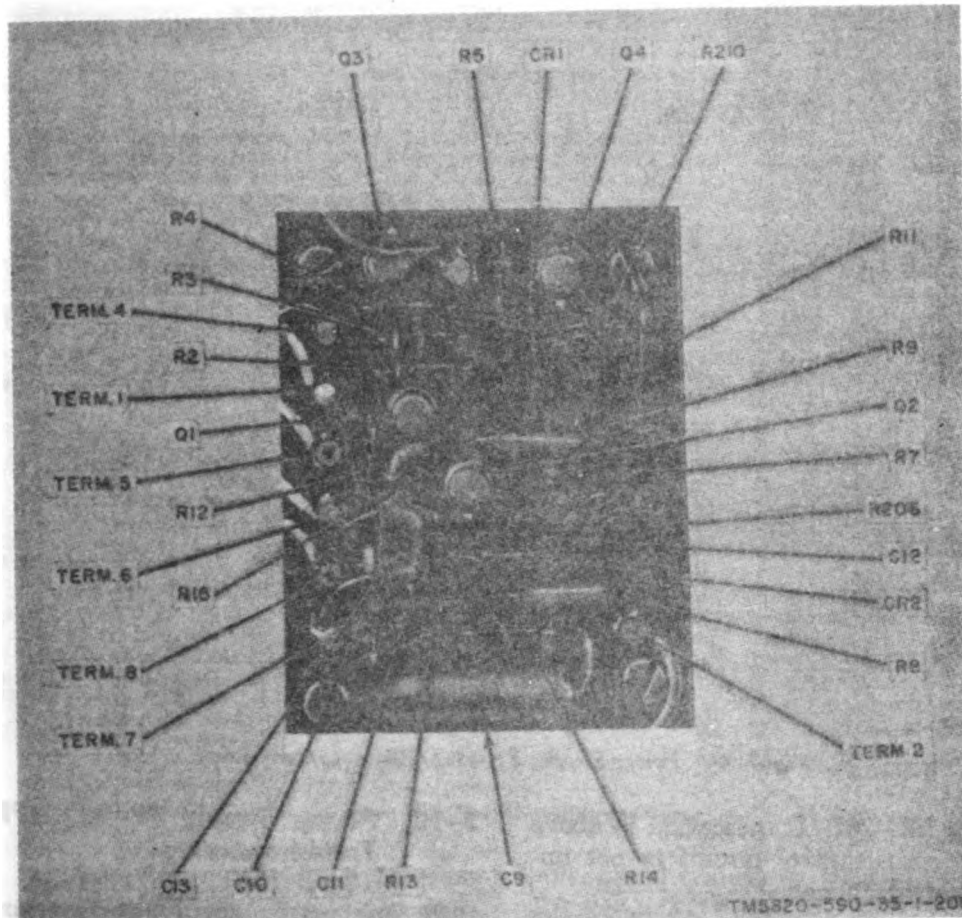


Figure 2-6. Gain control circuit board TB203.

a. Receive Mode.

- (1) Connect the ME-26B/U to terminal 8 of gain control circuit board TB 203.
- (2) Set the OFF-ON-TUNE switch to ON.
- (3) Adjust R206 for a maximum dc voltage indication on the ME-26B/U.
- (4) Check to see that the ME-26B/U indicates not less than +2.5 volts.
- (5) Adjust R206 for a minimum voltage indication on the ME-26B/U.
- (6) Check to see that the ME-26B/U indicates not more than +1.5 volts.
- (7) Connect the ME-26B/U to terminal 2 of gain control circuit board TB203.
- (8) Set the R. F. GAIN control fully clockwise.
- (9) Repeat the procedures in (3) through (6) above adjusting R210.

(10) With a clip lead, connect terminal 8 of gain control circuit board TB203 to terminal 4.

(11) Check for an ME-26B/U indication of not more than +2.5 volts at terminals 2 and 8 of gain control circuit board TB203.

(12) If the ME-26B/U indication is not within the limits specified, the gain control circuit is not operating in the receive mode.

(13) Replace gain control circuit board TB203 as required (para 2-12).

(14) Leave test equipment connected in this manner for the test in *b* below.

b. Calibrate Mode.

(1) Push in the CLARIFY-PUSH TO CALIBRATE control.

(2) Check for an ME-26B/U indication of not more than +1.5 volt at terminals 2 and 8 of gain control circuit board TB203.

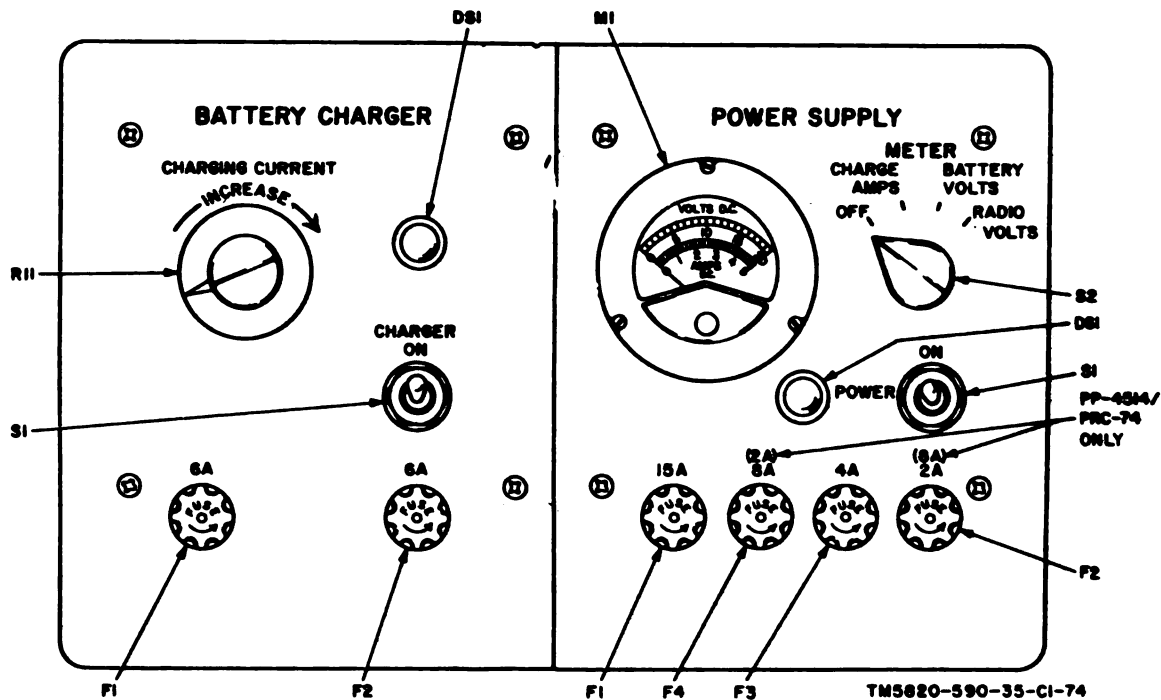


Figure 2-7. Power Supply PP-4514/PRC-74, front panel.

(3) If the ME-26B/U indication is above +1.5 volt, the gain control circuit is not operating in the calibrate mode.

(4) Replace gain control circuit board TB203 as required (para 2-12).

(5) Leave the test equipment connected in this manner for the test in *c* below.

c. Transmit Mode.

(1) Connect a 50-ohm, 20-watt dummy load to the ANT and GND terminals of the radio set.

(2) Hold the OFF-ON-TUNE selector switch in the TUNE position.

(3) Disconnect the clip lead at terminal 4, and connect it to terminal 6.

(4) Check for an ME-26B/U indication at terminals 2 and 8 of not less than +5 volts.

(5) If the ME-26B/U indications are not within the limits specified, the gain control circuit is not operating in the transmit mode.

(6) Replace gain control circuit board TB203 as required (para 2-12).

(7) Connect the headset to one of the AUDIO connections, and adjust R206 and R210 for maximum noise in the headset.

2-10. Power Supply PP-4514/PRC-74 Troubleshooting (fig. 2-7)

With the power supply and battery charger subassemblies installed in the case, check the PP-4514/PRC-74 as given in *a* through *c* below.

NOTE

Refer to figure 1-8 in TM 11-5820-590-12-1 for cables that are used with the PP-4514/PRC-74.

a. Power Supply Subassembly.

(1) Connect accessory power cable W1 to J1 on the case (fig. 2-10) and to a 28-volt power source.

(2) Set the POWER ON switch to ON.

(3) Set the METER switch to RADIO VOLTS.

(4) Check the power supply subassembly panel meter for an indication of 14 volts \pm 3.

(5) If 0 volt is indicated, check the power supply module as follows:

(a) 15A fuse F1 (fig. 2-7). If fuse F1 is open, check capacitor C1 and diode CR1 (fig. 2-8). Replace if defective.

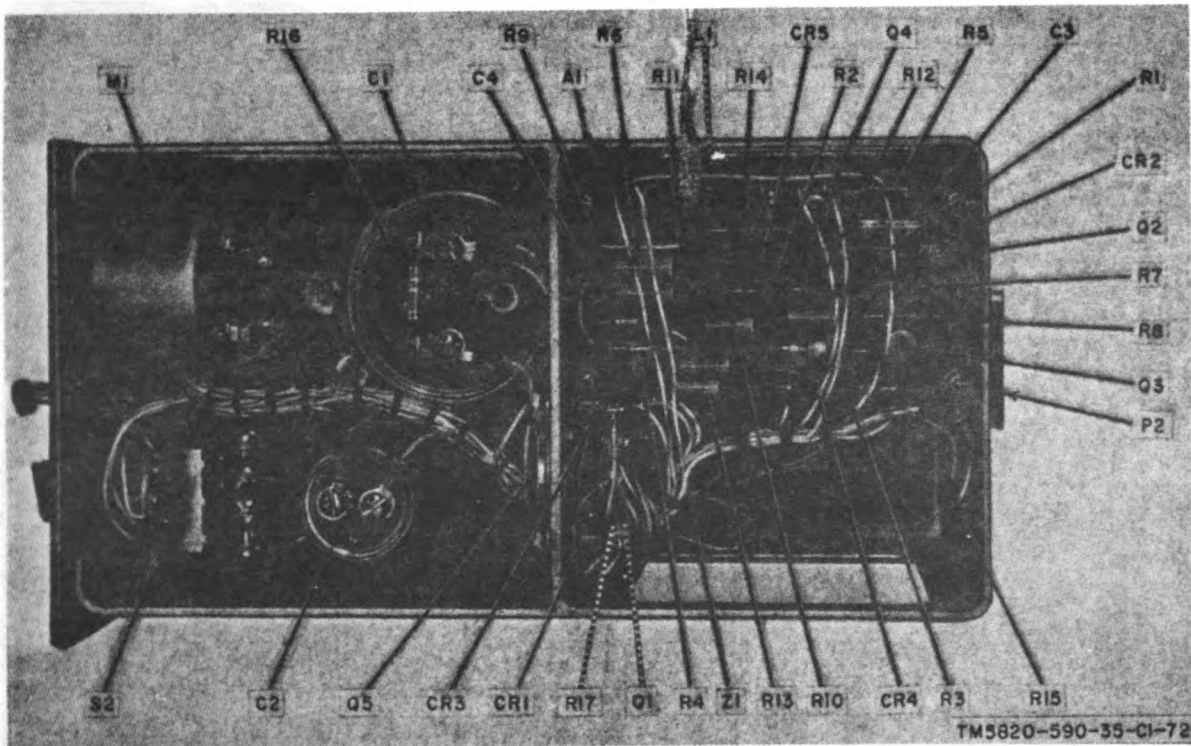


Figure 2-8. Power supply module.

(b) 8A fuse *F4* (fig. 2-7). If 8A fuse *F4* is open, check transistor *Q5* and the associated components (fig. 2-8). Replace if defective. Also check for a short circuit at output connector *J4*, pins 2 and 6. Refer to the schematic diagram (fig. 6-15).

(c) Transistors *Q1* through *Q4*. Replace if defective.

(6) If the panel meter indicated a voltage level above 18 volts, check overvoltage load protector *Z1* and the associated components. The normal resistance of *Z1* is 33 ohms when the TS-352B/U positive lead is connected to the plus terminal and is 140 ohms when the TS-352B/U leads are reversed. Replace if defective. Use figure 2-8 for parts location and figure 6-15 for troubleshooting.

(7) If the panel meter indicates normal voltage output, momentarily short circuit pins 2 and 6 of *J4* of the module case.

(8) Check to see that the panel meter drops to 0 volt.

(9) If the panel meter does not drop to 0

volt, check transistor *Q3* and resistors *R7* and *R8*. Replace if defective.

b. Battery Charger (fig. 2-9).

(1) Connect accessory power cable *W1* to *J1* on the case (fig. 2-10), and to a 28-volt power source.

(2) Set the CHARGE-ON switch to ON.

(3) Set the METER switch on the front panel of the external power supply to BATTERY VOLTS.

(4) Check the panel meter on the power supply for an indication of approximately 20 volts.

(5) If 0 volt is indicated, check the battery charger subassembly as follows:

(a) 6A fuse *F1* (fig. 2-7). If 6A fuse *F1* is open, check capacitor *C2*, diode *CR2*, and associated components (fig. 2-9). Replace defective components.

(b) 6A fuse *F2* (fig. 2-7). If 6A fuse *F2* is open check transistor *Q5* and associated components (fig. 2-9). Replace defective components.

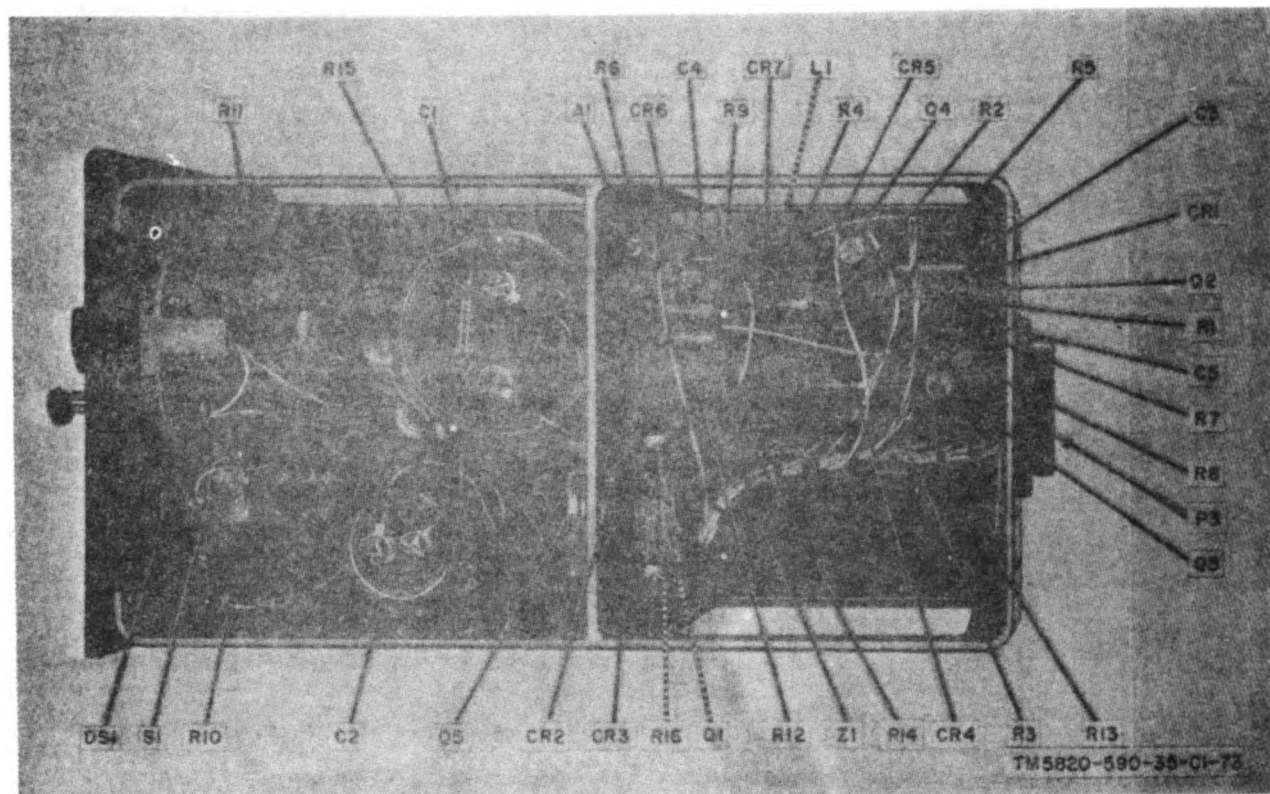


Figure 2-9. Battery charger module.

(6) To check battery charger operation from an ac source, connect accessory power cable W2 to J5 (fig. 2-10), and to a 110-volt, 50- to 400-cps power source.

(7) With the METER switch set to BATTERY VOLTS, check to see that the normal voltage level of approximately 20 volts is indicated on the panel meter. Momentarily short circuit the battery clips of the cable together, and check to see that the panel meter drops to a 0-volt indication. (This procedure checks the operation of short protection switch Q3.)

(8) If 0 volt is not indicated when the battery clips are momentarily short circuited, check short protection transistor Q3 (fig. 2-9). If short protection switch Q3 is faulty and the battery clips are short circuited for too long, 6A fuse F2 (fig. 2-7) may open. Replace defective Q3 or 6A fuse F2 as required.

c. Power Supply PP-4514/PRC-74 Case (fig. 2-10). Using Multimeter TS-352B/U, troubleshoot the case as follows:

(1) Remove the battery charger subassembly from the case (para 5-13), TM 11-5820-590-12-1).

(2) Connect accessory power cable W1 to J1 and to a 28-volt power source.

(3) Set the POWER ON switch to ON.

(4) Connect the multimeter negative lead to pin 1 of J3 and the positive lead to pin 2 of J3.

(5) Check for a normal voltage indication of +21 to +31 volts.

(6) If 0 volt is indicated, check the power supply POWER ON switch and diodes CR1 through CR4. Replace the defective part or parts.

(7) Connect accessory power cable W2 to J1 and to a 110-volt, 50- to 400-cps power source.

(8) Check for a normal voltage indication of 20 to 40 volts on the multimeter.

(9) If 0 volt is indicated on the multimeter, check for the following defective components. Replace as required.

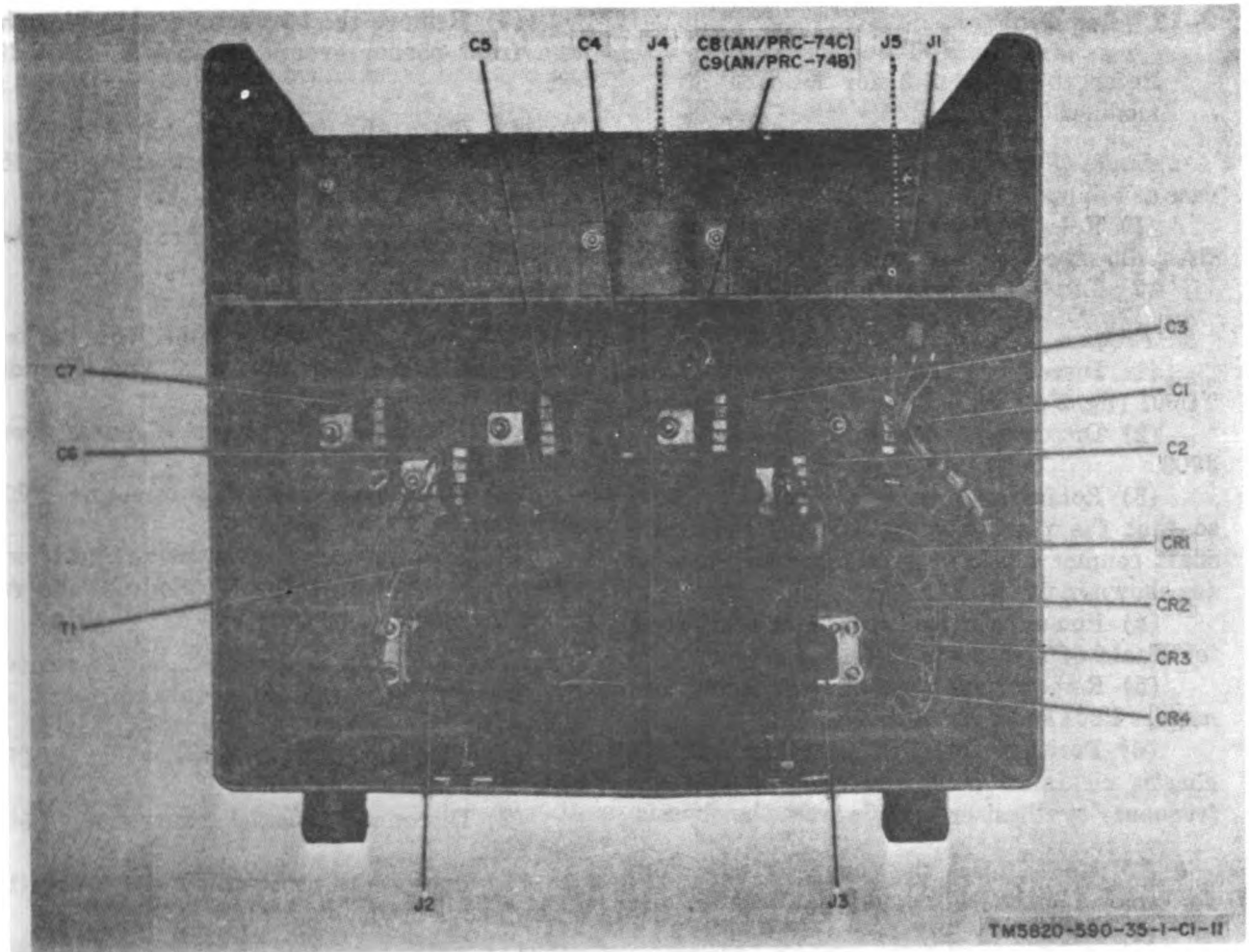


Figure 2-10. Power Supply PP-4514/PRC-74, case-mounted components.

- (a) Connecting cable W2.
- (b) POWER ON switch S1.
- (c) 6A fuse F2 and 4A fuse F3.
- (d) Transformer T1.
- (e) Diodes CR1 through CR4.

Section II. REPAIRS

2-11. General Parts Replacement Techniques

The repair function at the direct support maintenance category consists of removal and replacement of modules and components of the radio set and the PP-4514/PRC-74, and adjustment of the radio set bandswitch gear. Follow the procedures in paragraphs 2-12 and 2-13 to remove and replace modules and com-

ponent parts of the radio set and PP-4514/PRC-74. Observe the following precautions:

- a. Before a module is removed, note the positions of the leads. Tag each lead before removing.
- b. Be careful not to damage other leads or parts by pushing or pulling them out of the way.
- c. Do not disturb the front panel control settings unless specified.

2-12. Removal

NOTE

Refer to figure 2-3 for location of modules.

a. Radio Set Case. Remove the radio set case as follows:

- (1) Release the two latches that secure the radio set case to the radio set.
- (2) Lift the radio set from the case.

b. Frequency Synthesizer Module.

- (1) Disconnect the harness wires from TB601 (fig. 2-1).
- (2) Disconnect connector P601 from J703.

(3) Rotate all synthesizer control shafts so that the rear drive portion of the white shaft coupler blocks is straight up and down (as shown in fig. 2-11).

(4) Remove the two screws at the left of terminal 9 of TB202 (fig. 2-1).

(5) Remove the two screws below connectors P601 and P202.

(6) Position P601 to pass through the chassis clearance hole, and carefully lift the frequency synthesizer module from the chassis.

c. RF Module. Use the following procedure for removal of the RF module (fig. 2-1).

- (1) Set MC (MHz) selector control to 2.
- (2) Disconnect the harness wires from TB701.
- (3) Disconnect coaxial connectors P202, P502, P801, and P802.
- (4) Disconnect P601 from J703 if it was not removed in *b* above.

(5) Remove the two screws attaching the two front corner ground straps to the radio set.

(6) Turn the radio set over (fig. 2-3), and remove the four screws attaching the RF module to the chassis.

(7) Lift the RF module straight up from the radio set chassis.

d. IF Audio Module (fig. 2-1). Use the following procedure for removal of the IF audio module:

(1) Disconnect the harness wires from TB202.

(2) Disconnect coaxial connectors P201 and P501.

(3) Loosen the four captive holddown screws on the top of the IF module, and remove the module.

e. Frequency Generator Module. To remove the frequency generator module, proceed as follows:

(1) Disconnect the harness wires at TB501.

(2) Disconnect coaxial connectors P501 and P502.

(3) Loosen the screw below P501 and the screw above P601.

(4) Turn the radio set over, and lift the frequency generator module from the radio set chassis.

f. Power Amplifier Module.

(1) Disconnect the harness wires from TB801.

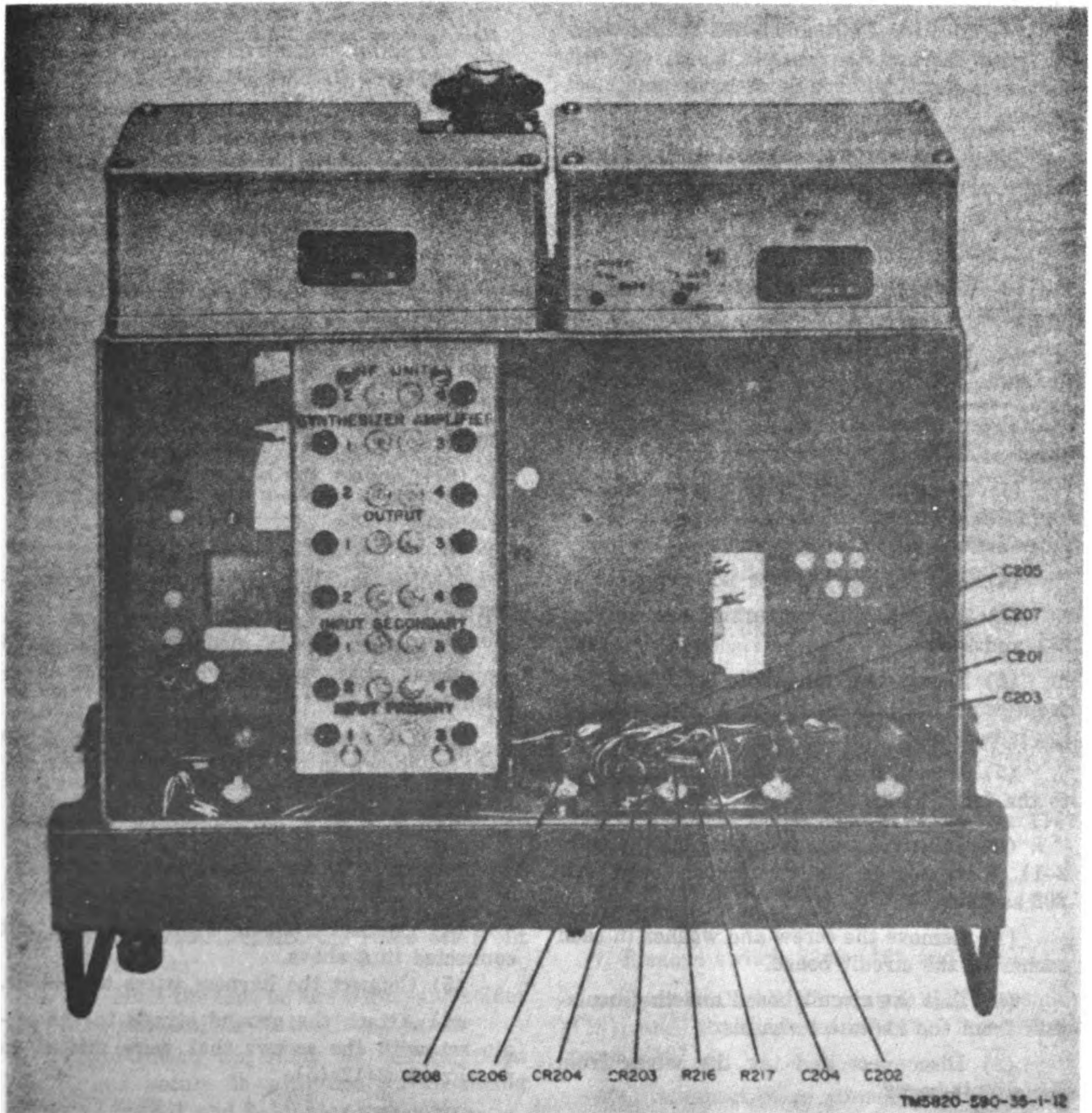


Figure 2-11. Radio set, modules removed.

(2) Disconnect coaxial connectors P801 and P802 from J702 and J704 of the RF module (fig. 2-1).

(3) Rotate the ANT LOAD and ANT TUNE control shafts so that the white shaft

coupler blocks (behind the panel) face the direction in which the power amplifier module is to be removed (fig. 2-11).

(4) Remove the three screws on the right side of TB801.

(5) Disconnect the antenna wires from TB802 (fig. 3-17).

(6) Position P801 and P802 so that they can pass through the chassis holes, and lift the power amplifier module from the radio set chassis.

g. Power Supply. For removal of the power supply, proceed as follows:

(1) Loosen the three screws (fig. 2-3) in the corners of the power supply cover.

(2) Disconnect the power supply cable at TB201.

(3) Lift the power supply module from the radio set chassis.

h. Front Panel. Remove the radio set front panel as follows:

(1) Disconnect and unsolder wire connections attached to the radio set chassis. Tag all wires before unsoldering.

(2) Remove the harness wire clamps.

(3) Remove the six mounting screws (fig. 2-1 and 2-11).

(4) Slowly lift the radio set from the front panel until access to the front panel wiring is possible.

(5) Unsolder and tag the wires connected to the front panel.

i. Gain Control Circuit Board TB203 (fig. 2-1). Remove gain control circuit board TB-203 as follows:

(1) Remove the screw and washer in each corner of the circuit board.

(2) Lift the circuit board and the insulators from the radio set chassis.

(3) Disconnect and tag the wires from the circuit board.

j. Terminal Boards TB201 and TB202. To remove terminal boards TB201 and TB202, proceed as follows:

(1) Disconnect the harness wires attached to the terminal board.

(2) Remove the screw at each end of the terminal board, and remove the board.

2-13. Replacement (fig. 2-1)

Note. Refer to figure 2-3 for location of modules.

a. Frequency Synthesizer Module.

(1) Rotate the frequency synthesizer control shafts so that they will mate with the shaft coupler blocks on the front panel (fig. 2-11).

(2) Insert P601 through the clearance hole in the chassis.

(3) Insert the module in the chassis, and attach the screws adjacent to E5, terminal 9 of TB202, and below connectors P601 and P202.

(4) Connect P601 to J708 of the RF module.

(5) Connect the wiring harness to TB-601.

b. RF Module.

(1) Set the MC selector control to position 2.

(2) Insert the RF module into the radio set chassis, and secure it with the four hold-down screws.

(3) Connect the coaxial connectors to jacks as shown in the chart below.

Connector	Jack
P202	J705
P502	J701
P601	J704
P802	J702

(4) Connect P601 to J708 if it was not connected in *a* above.

(5) Connect the harness wires to TB701.

(6) Attach the ground straps to the radio set with the screws that were moved in paragraph 2-12c(5).

c. IF Audio Module.

(1) Place the IF audio module on the radio set chassis.

(2) Tighten the four captive holddown screws on the top of the module.

(3) Connect coaxial connectors P201 and P501 to jacks J401 and J402 of the IF audio module.

(4) Connect the harness wires to TB202.

d. Frequency Generator Module.

(1) Insert the frequency generator module into the radio set chassis, and secure it with the screws below P501 and above P601.

(2) Connect coaxial connectors P501 and P502 to jack J402 of the IF module and jack J701 of the RF module.

(3) Connect the harness wires to TB501.

e. Power Amplifier Module.

(1) Insert coaxial connectors P801 and P802 through the holes in the radio set chassis.

(2) Rotate the ANT LOAD and ANT TUNE control shafts so that they can mate with the white shaft coupler blocks on the front panel (fig. 2-11).

(3) Position the module in the radio set chassis, and secure it with the screws adjacent to terminals 1, 4, and 7 of TB801.

(4) Connect the antenna wires to TB802.

(5) Connect P801 and P802 to J702 and J704 of the RF module (fig. 2-1).

(6) Connect the harness wires to TB801.

f. Power Supply Module.

(1) Place the power supply module on the radio set chassis, and secure it with the three screws in the corners of the module cover (fig. 2-11).

(2) Connect the power supply module cable to TB201.

g. Front Panel. Replace the radio set front panel as follows:

(1) Note the tags on the wires, and solder the wire connections to the front panel.

(2) Position the radio set on the front panel, and secure it with the six mounting screws (fig. 2-1 and 2-11).

(3) Secure the harness wires to the chassis with the harness wire clamps.

(4) Connect and solder the tagged wires.

h. Gain Control Circuit Board TB203. (fig. 2-1).

(1) Connect the wires to the circuit board.

(2) Position the insulators and gain control circuit board TB203 over the mounting holes of the chassis.

(3) Secure circuit board TB203 to the chassis with the four washers and screws.

i. Terminal Boards TB201 and TB202.

(1) Position the terminal board over the mounting holes on the chassis, and attach the screws.

(2) Connect the harness wires to the terminal board.

j. Radio Set Case. Replace the radio set inside the radio set case, and secure the two latches on the sides of the case.

2-14. Front Panel Disassembly
(fig. 2-12)

For disassembly of the radio set front panel, remove the front panel from the radio set (para 2-12h) and proceed as follows:

a. Remove screw (1), lockwasher (2), and knob (3).

b. Remove nut (4), lockwasher (5), and switch S201 (6).

c. Remove screw (7), lockwasher (8), and knob (9).

d. Remove retaining ring (10), washer (11), and thrust bearing (12).

e. Remove two nuts (13), spacers (14), screws (15) and flatwashers (15A).

f. Remove switch S202 (16) and plate (17).

g. Remove CLARIFY control shaft assembly (18) and thrust bearing (19) from front panel (101).

h. Disconnect wire connections to connectors J201 (48) and J202 (50).

i. Remove two screws (20) and switch mounting bracket (21).

j. Remove pin (22) and coupler block (23).

k. Remove screw (24), calibrate gear-driven assembly (25), washer (26), and thrust bearing (27).

l. Turn knob (85) to set the MC shaft assembly (89) to position 2.

m. Remove screw (28), lockwasher (29), and washer (30).

n. Remove cam mounting plate assembly (81) and thrust bearing (82). Remove alignment shims as required.

o. Refer to breakout of item 81 in figure 2-12. Check to see that cam mounting plate gear turns freely. If gear does not turn freely, proceed as follows:

(1) Remove nut and lockwasher.

(2) Lift cam mounting plate and one thrust bearing from cam assembly.

(3) Lubricate disassembled parts using lubricant per MIL-I-8660.

(4) Place one thrust bearing and cam mounting plate on cam assembly.

(5) Place lockwasher on cam assembly, and attach nut:

p. Remove screw (83), lockwasher (84), and knob (85).

q. Remove retaining ring (86), washer (87), and thrust bearing (88).

r. Remove MC shaft assembly (89) from panel (101).

s. Remove three screws (40), lockwashers (41), and knobs (42).

t. Remove three retaining rings (48), washers (44), and thrust bearings (45).

u. Remove three frequency controls (46) from front panel (101).

v. Remove nut (47), and pull connector J201 (48) from front panel (101).

w. Remove nut (49), and pull connector J202 (50) from front panel (101).

x. Remove nut (51) and knob (52).

y. Remove two shaft clamps (53), nut (53A), lockwasher (53B), flatwasher (53C) and remove R.F. GAIN control R201 (54) from front panel (101).

s. Remove pin (55) and coupler block (56).

aa. Remove screw (57), bandswitch gear-driven assembly (58), and thrust bearing (59).

ab. Remove pin (60) and coupler block (61).

ac. Remove screw (62), disk-drive assembly (63), and thrust bearing (64).

ad. Remove screw (65), lockwasher (66), and knob (67).

ae. Remove retaining ring (68), washer (69), and thrust bearing (70).

af. Remove PEAK NOISE control (71) and thrust bearing (72) from front panel (101).

ag. Remove nut (73), and pull meter M201 (74) from front panel (101).

ah. Remove screw (75), lockwasher (76), and knob (77).

ai. Remove retaining ring (78), washer (79), and thrust bearing (80).

aj. Remove ANT LOAD control (81) from front panel (101).

ak. Remove screw (82), lockwasher (83), and knob (84).

al. Remove retaining ring (85), washer (86), and thrust bearing (87).

am. Remove ANT TUNE control (88) from front panel (101).

an. Remove nut (89), lockwasher (90), washer (91), and thrust bearing (92).

ao. Remove GND binding post (93) and thrust bearing (94).

ap. Remove nut (95), lockwasher (96), washer (97), and thrust bearing (98).

aq. Remove ANT binding post (99) and thrust bearing (100) from front panel (101).

2-15. Front Panel Assembly (fig. 2-12)

For reassembly of the radio set front panel, proceed as follows:

a. Install thrust bearing (100) and ANT binding post (99) in front panel (101).

b. Secure ANT binding post (99) with

thrust bearing (98), washer (97), lockwasher (96), and nut (95).

c. Install thrust bearing (94) and GND binding post (93) in front panel (101).

d. Secure GND binding post (93) with thrust bearing (92), washer (91), lockwasher (90), and nut (89).

e. Install ANT TUNE control (88), and secure with the thrust bearing (87), washer (86), and retaining ring (85).

f. Install knob (84), and secure with lockwasher (83) and screw (82).

g. Install ANT LOAD control (81), and secure with thrust bearing (80), washer (79), and retaining ring (78).

h. Install knob (77), and secure with lockwasher (76) and screw (75).

i. Install meter M201 (74), and secure with nut (73).

j. Install thrust bearing (72) and PEAK NOISE control (71) in front panel (101).

k. Secure PEAK NOISE control (71) with thrust bearing (70), washer (69), and retaining ring (68).

l. Install knob (67), and secure with lockwasher (66) and screw (65).

Notes. Apply lubricant (per MIL-I-8660) to shoulder and head of screw (62). Do not allow lubricant to get on screw threads.

m. Insert screw (62) to disk-drive assembly (63), and place thrust bearing (64) over protruding portion of screw shoulder. Mount assembly on front panel (101), and tighten screw (62).

n. Install coupler block (61), and secure with pin (60).

Notes. Apply lubricant (per MIL-I-8660) to shoulder and head of screw (57). Do not allow lubricant to get on screw threads.

o. Insert screw (57) into bandswitch gear-driven assembly (58), and place thrust bearing (59) over protruding portion of screw shoulder.

p. Mount bandswitch gear-driven assembly (58) on front panel (101), and tighten screw (57).

q. Install coupler block (56), and secure with pin (55).

r. Install R.F. GAIN control R201 (54) in front panel (101).

r.1. Secure RF GAIN Control (54) with flatwasher (53C), lockwasher (53B) and nut (53A).

s. Place two shaft clamps (53) on RF GAIN control (54) shaft.

t. Place knob (52) over shaft clamps (58), and secure with nut (51).

u. Install connector J202 (50) in front panel (101), and secure with nut (49).

v. Install connector J201 (48) in front panel (101), and secure with nut (47).

w. Install three frequency controls (46), and secure with thrust bearing (45), washers (44), and retaining rings (43).

x. Install three knobs (42), and secure with lockwashers (41) and screws (40).

y. Install MC shaft assembly (39) in panel (101), and secure with thrust bearing (38), washer (37), and retaining ring (36).

z. Install knob (35), and secure with lockwasher (34) and screw (33).

aa. Turn MC shaft assembly (39) to position 2.

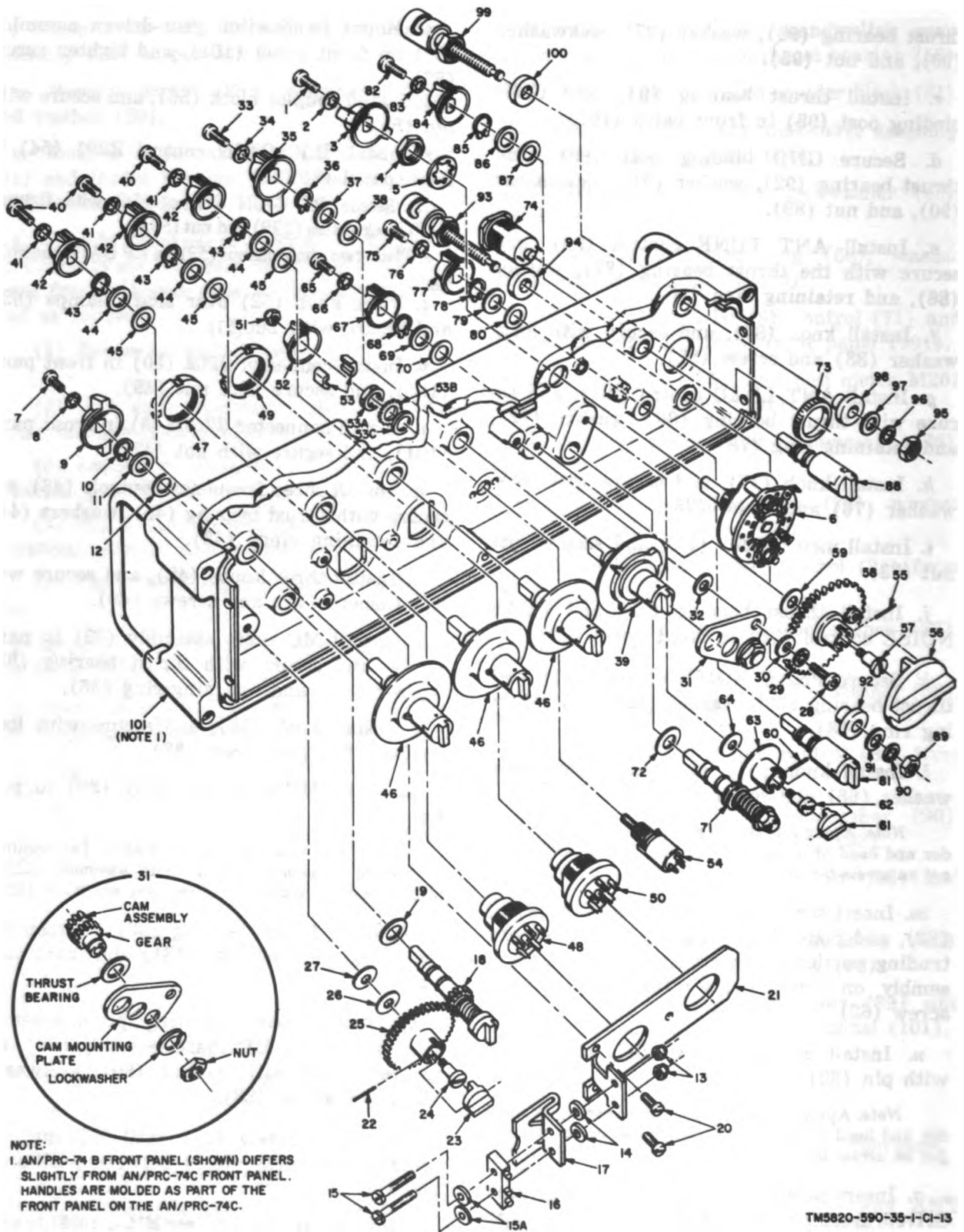
Notes. Use thick or thin flat washer (as required) on bottom of cam mounting plate assembly (31) to align mounting plate with disk-drive assembly (63).

ab. Place thrust bearing (32) between cam mounting plate assembly (31) and front panel (101).

ac. Install cam mounting plate assembly (31) on rear of MC shaft assembly (39), and secure loosely with washer (30), lockwasher (29), and screw (28).

ad. Adjust screw (28) until MC shaft assembly (39) turns freely between positions 2 and 11.

Notes. Apply lubricant (per MIL-I-8660) to shoulder and head of screw (24). Do not allow lubricant to fall on screw threads.



NOTE:
 1. AN/PRC-74 B FRONT PANEL (SHOWN) DIFFERS SLIGHTLY FROM AN/PRC-74C FRONT PANEL. HANDLES ARE MOLDED AS PART OF THE FRONT PANEL ON THE AN/PRC-74C.

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Figure 2-12. Radio set front panel, exploded view.

1	Screw	33	Screw	65	Screw
2	Lockwasher	34	Lockwasher	66	Lockwasher
3	Knob	35	Knob	67	Knob
4	Nut	36	Retaining ring	68	Retaining ring
5	Lockwasher	37	Washer	69	Washer
6	Switch S201	38	Thrust bearing	70	Thrust bearing
7	Screw	39	MC shaft assembly	71	PEAK NOISE control
8	Lockwasher	40	Screw	72	Thrust bearing
9	Knob	41	Lockwasher	73	Nut
10	Retaining ring	42	Knob	74	Meter M201
11	Washer	43	Retaining ring	75	Screw
12	Thrust bearing	44	Washer	76	Lockwasher
13	Nut	45	Thrust bearing	77	Knob
14	Spacer	46	Frequency control	78	Retaining ring
15	Screw	47	Nut	79	Washer
15A	Flat washer	48	Connector J201	80	Thrust bearing
16	Switch S202	49	Nut	81	ANT LOAD control
17	Plate	50	Connector J202	82	Screw
18	CLARIFY control shaft assembly	51	Screw	83	Lockwasher
19	Thrust bearing	52	Knob	84	Knob
20	Screw	53	Shaft clamp	85	Retaining ring
21	Switch mounting bracket	53A	Nut	86	Washer
22	Pin	53B	Lockwasher	87	Thrust bearing
23	Coupler block	53C	Flat washer	88	ANT TUNE control
24	Screw	54	R.F. GAIN control R201	89	Nut
25	Calibrate gear-driven assembly	55	Pin	90	Lockwasher
26	Washer	56	Coupler block	91	Washer
27	Thrust bearing	57	Screw	92	Thrust bearing
28	Screw	58	Bandswitch gear-driven assembly	93	GND binding post
29	Lockwasher	59	Thrust bearing	94	Thrust bearing
30	Washer	60	Pin	95	Nut
31	Cam mounting plate assembly	61	Coupler block	96	Lockwasher
32	Thrust bearing	62	Screw	97	Washer
		63	Screw	98	Thrust bearing
		64	Thrust bearing	99	ANT binding post
				100	Thrust bearing
				101	Front panel

Figure 2-12.—Continued.

ae. Insert screw (24) to calibrate gear-driven assembly (25), and place washer (26) and thrust bearing (27) over protruding portion of screw shoulder.

af. Mount calibrate gear-driven assembly (25) on front panel (101), and tighten screw (24).

ag. Install coupler block (23), and secure with pin (22).

ah. Install switch mounting bracket (21), and secure with two screws (20).

ai. Install thrust bearing (19) on CLARIFY control shaft assembly (18).

aj. Insert CLARIFY control shaft assembly (18) halfway into panel (101).

ak. Install plate (17) and switch S202 (16) with NC terminal on switch toward bottom of front panel (101).

al. Secure plate (17) and switch S202 (16) with two screws (15), flat washers (15A), spacers (14), and nuts (13).

am. Secure CLARIFY control shaft assembly (18) on front side of panel (101) with thrust bearing (12), washer (11), and retaining ring (10).

an. Install knob (9), and secure with lockwasher (8) and screw (7).

ao. Adjust screw S202 (16) so that it actuates when CLARIFY control shaft assembly (18) gear engages and disengages.

ap. Install switch S201 (6) in front panel (101), and secure with lockwasher (5) and nut (4).

aq. Install knob (3), and secure with lockwasher (2) and screw (1).

2-16. Bandswitch Gear Adjustment (fig. 2-11)

The bandswitch mechanism is properly set if the bandswitch changes from band 1 to band 2 when the MC selector knob is moved from position 2 to position 3. To assure the proper

operation of the RF module bandswitch by the MC selector knob, proceed as follows:

NOTE

The bandswitch gear adjustment may be made with the radio set turned on, if care is taken not to short circuit the terminals of the OFF-ON-TUNE selector switch.

a. Use an Allen wrench to loosen the adjustment screw on the bandswitch gear.

b. Rotate the bandswitch gear in the direction required while holding the adjusting screw in place.

c. Tighten the adjusting screw when the bandswitch gear is in the proper position.

2-17. Gain Control Adjustment
(fig. 2-6)

a. Connect an AN/URM-25D (or equivalent) to the ANT and GND connections of the radio set.

b. Set the signal generator for an output of 2.001 mc at the 1-microvolt level.

c. Set the radio set frequency controls to 2.000 mc.

d. Set the OFF-ON-TUNE selector switch to ON.

e. Adjust R206 and R210 for maximum audio output.

CHAPTER 3

GENERAL SUPPORT MAINTENANCE

Section I. TROUBLESHOOTING

3-1. Test Equipment and Special Items Required for Module Troubleshooting

The test equipment required for troubleshooting the radio set at the general support maintenance category, together with the associated technical manuals, are listed in *d*, *e*, and *f* below. Additional items, such as test loads, must be fabricated. Fabrication details are covered in *a*, *b*, and *c* below and in figure 3-1.

a. 20-Db Match Pad.

(1) Obtain a 56-ohm, $\frac{1}{2}$ -watt resistor (R1), a 500-ohm, $\frac{1}{2}$ -watt resistor (R2), and a 120-ohm, $\frac{1}{2}$ -watt resistor (R3).

(2) Assemble resistors R1, R2, and R3 and connectors as shown in figure 3-1.

b. Shunt Load Resistor.

(1) Obtain a 1-kilohm, $\frac{1}{2}$ -watt ± 5 percent resistor (R1) and a 680-picofared (pf) capacitor (C1).

(2) Connect R1 and C1 to short clip leads as shown in figure 3-1.

c. Test Loads. Amphenel connector IPC 4700-51 contains a 51-ohm, $\frac{1}{2}$ -watt resistor installed in the connector. When a load resistance of another value is required, fabricate the load resistance as follows:

(1) Obtain connector IPC 4700-51.

(2) Disassemble the connector, and remove the 51-ohm, $\frac{1}{2}$ -watt resistor.

(3) Insert and solder the resistor into the connector as required.

(4) Assemble the connector.

(5) Obtain and use miniature coaxial adapters (Amphenel 27-28 and 27-40) to con-

nect the test equipment to subminiature coaxial connectors.

d. Test Equipment.

(1) Generator, Signal AN/GRM-50.

(2) R.F. Signal Generator Set AN/URM-25D (signal generator).

(3) Counter, Electronic Digital Readout AN/USM-207 (frequency meter).

(4) Generator, Signal AN/URM-127.

(5) Oscilloscope AN/USM-140B.

(6) Electronic Voltmeter AN/URM-145.

(7) Multimeter ME-26B/U.

(8) Multimeter TS-352B/U (three required).

(9) Power Supply, Hewlett-Packard HP-6489A (three required).

e. Additional Equipment.

(1) Resistor, 20-ohm ± 5 percent, 50-watt.

(2) Resistor, 40-ohm ± 5 percent, 50-watt.

(3) Resistor, 60-ohm ± 5 percent, 2-watt.

(4) Resistor, 80-ohm ± 5 percent, 25-watt.

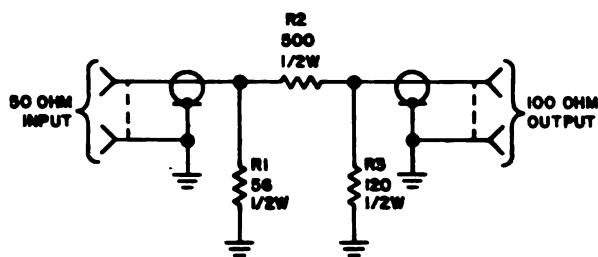
(5) Resistor, 100-ohm ± 5 percent, $\frac{1}{2}$ -watt (two required).

(6) Resistor, 500-ohm ± 5 percent, $\frac{1}{2}$ -watt.

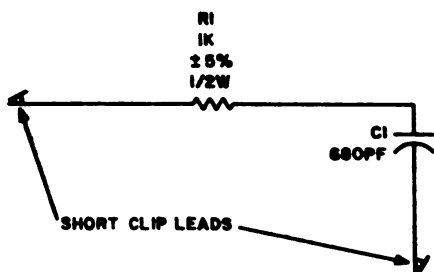
(7) Resistor, 20,000-ohm ± 5 percent, $\frac{1}{2}$ -watt.

(8) Resistor, 50-ohm, 20-watt.

(9) Resistor, 100-ohm, 20-watt.



A. MATCH PAD, 20 DB



B. SHUNT LOAD RESISTOR
TMS820-590-35-88

Figure 3-1. Test adapters, fabrication.

- (10) Resistor, 800-ohm, 4-watt.
- (11) Resistor, 900-ohm, 1/2-watt.
- (12) Resistor, 1,000-ohm, 1-watt.
- (13) Hewlett-Packard TEE Connector No. 11042A (T-connector).
- (14) Potentiometer, 5,000-ohm.
- (15) Potentiometer, 2,000-ohm.
- (16) Resistor, 10,000-ohm, 1 watt.

f. Frequency Synthesizer Signal. Whenever an aligned frequency synthesizer module is available, it may be used in place of a signal generator to supply the frequency synthesizer signal.

3-2. Frequency Synthesizer Module (fig. 3-5 and 3-7)

Troubleshoot the frequency synthesizer module as given in *a* through *r* below.

- a.* Connect a 100-ohm, 1/2-watt load between ground and P601 (fig. 3-2 and 3-3).
- b.* Connect Electronic Voltmeter AN/URM-

145 (or equivalent) and Oscilloscope AN/USM-140B to a T-connector as illustrated in figure 3-2.

c. Connect the remaining connector of the T-connector to P601.

d. Connect the AN/USM-140B vertical output signal to Counter, Electronic Digital Readout AN/USM-207 (or equivalent).

e. Connect the positive (+) terminal of Power Supply HP6489A No. 1 (or equivalent) to pin 3 of TB601 and the negative (-) terminal to ground.

f. Set power supply No. 1 for an output of 9 volts ±5 percent, 50 ma.

g. Connect the positive terminal of Power Supply HP6489A No. 2 (or equivalent) to pin 1 of TB601 and the negative terminal to ground.

h. Add a jumper wire between pins 1 and 2 of TB601.

i. Set power supply No. 2 to 12 volts ±10 percent, 225 ma to energize transmit relay K1 and calibrate relay K2.

j. Turn all frequency control knobs fully clockwise (17.999 mc).

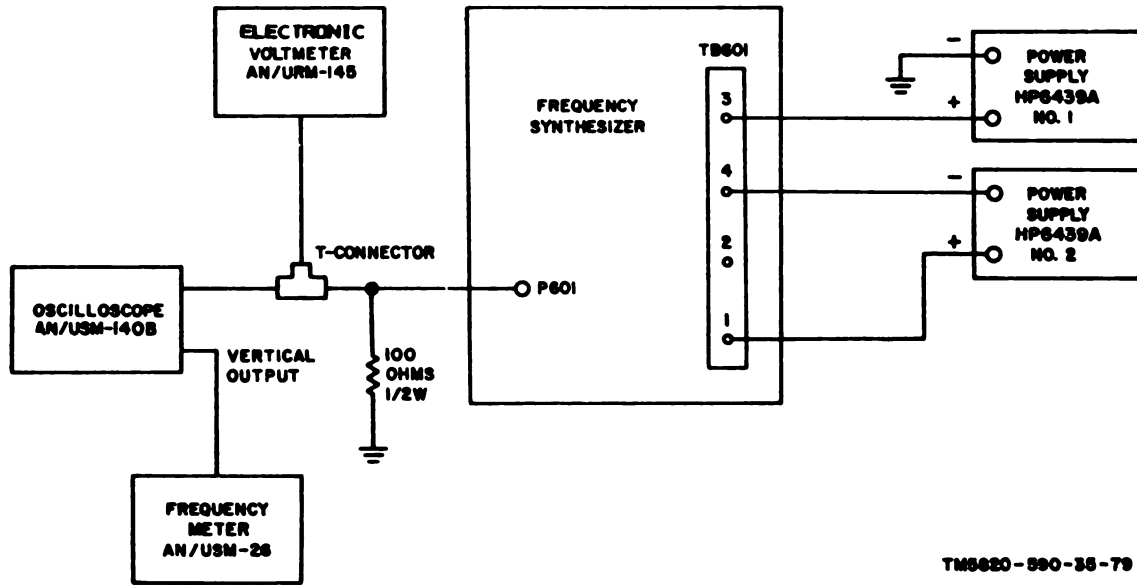
k. Adjust calibrate capacitor C628 (fig. 3-4) for a frequency indication of 19,740 kc on the frequency meter. The output level indication on the AN/URM-145 should be between 50 and 300 mv rms. The output waveform as viewed on Oscilloscope AN/USM-140B should have no amplitude modulation or mixed frequencies. Harmonic (waveform) distortion may occur. These output level and waveform conditions should hold for all test frequencies.

l. Remove the jumper wire from between terminals 1 and 2 of TB601.

m. Check to see that the output frequency is 19,749 kc ±50 cps.

n. Rotate each frequency control one position counterclockwise.

o. Repeat the procedure given in *k*, *l*, and *m* above for all frequency control positions as



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Figure 3-2. Frequency synthesizer, troubleshooting test setup.

shown in the following chart. The *calibrate frequency* setting should be obtained when terminals 1 and 2 of TB601 are connected as in *k* above.

Oscillator switch digit settings	Calibrate frequency (± 10 cps)	Output frequency (± 50 cps)
17,999	19,740	19,749
16,888	18,630	18,638
15,888	17,520	17,527
14,666	16,410	16,416
13,555	15,300	15,305
12,444	14,190	14,194
11,333	13,080	13,083
10,222	11,970	11,972
9,111	10,860	10,861
8,000	9,750	9,750
7,000	8,750	8,750
6,000	7,750	7,750
5,000	6,750	6,750
4,000	5,750	5,750
3,000	4,750	4,750
2,000	3,750	3,750

p. Check to see that the output frequency is as shown in the chart below.

q. If any of the output frequencies are not as indicated, perform the alignment instructions (para 3-22).

r. If a synthesizer stage cannot be aligned (fig. 3-31) or if the RF voltage measured is not as indicated, check the stage that is being

aligned for defective circuit components. Replace defective components as required (para 3-9).

3-3. RF Module

a. Receive Test.

(1) Connect Generator, Signal AN/GRM-50 (or equivalent) through a 20-db match pad (fig. 3-1) to J702 (fig. 3-8 and 3-9).

(2) Set the AN/GRM-50 to 2,001 kc ± 1 percent at 100 millivolts.

(3) Connect an AN/URM-25D (or equivalent) to J708.

(4) Set the AN/URM-25D to 3,750 kc ± 0.005 percent at 100 millivolts rms.

(5) Connect a 100-ohm, $\frac{1}{2}$ -watt resistor to J705.

(6) Connect Electronic Voltmeter AN/URM-145 (or equivalent) across the load.

(7) Connect the positive output terminal of Power Supply HP6439A (or equivalent) to terminal 3 of TB701, and connect the negative terminal to terminal 4 of TB701.

(8) Connect a voltage divider consisting of a 1-kilohm resistor and a 5-kilohm potentiometer across the output of the power supply.

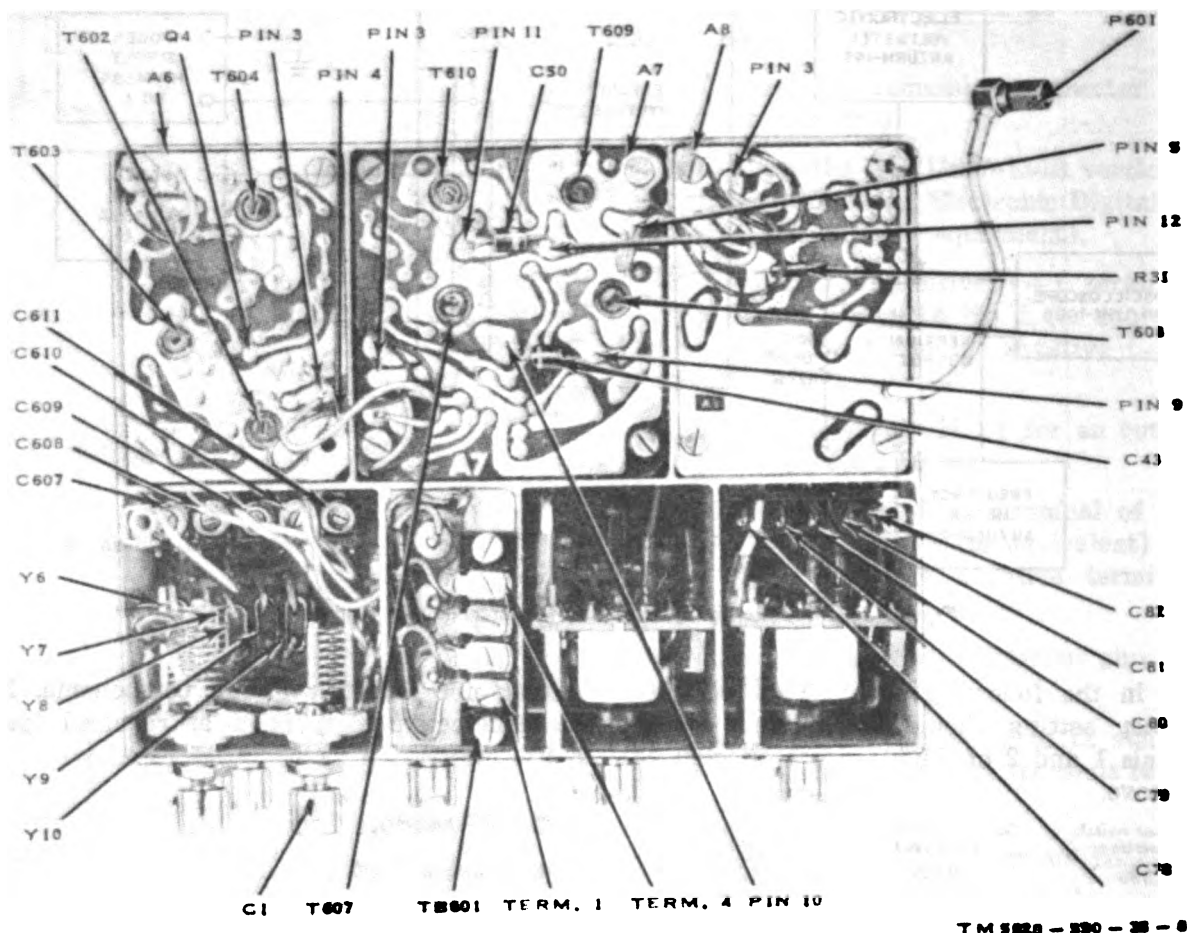


Figure 3-3. Frequency synthesizer module, bottom view.

(9) Connect the arm of the 5-kilohm potentiometer to terminal 2 of TB701.

(10) Set bandswitch S1 (fig. 3-9) to band 1 (fully counterclockwise).

(11) Set the power supply for an output of 9 volts \pm 5 percent, 100 ma.

(12) Adjust the 5-kilohm potentiometer for a maximum output as indicated on the AN/URM-145.

(13) Adjust C701 (fig. 3-9) for a maximum indication on the AN/URM-145.

(14) Check to see that the output across the load is 30 millivolts rms or greater.

(15) Repeat the test for other frequency bands, as shown in the chart below.

AN/URM-ssD frequency (kc)	Band	AN/GRM-89 frequency (kc)
3,750	1	2,001
5,750	2	4,001
8,750	3	7,001
13,750	4	12,001

(16) If an output of less than 30 millivolts is indicated for any of the frequencies given in (15) above, leave the test equipment connected in this manner, and perform alignment procedures for the RF module (para 3-23).

(17) If the RF module cannot be aligned as described in paragraph 3-23, connect the test equipment as shown in figure 3-8 (receive mode), and perform the procedures given in (a) through (j) below.

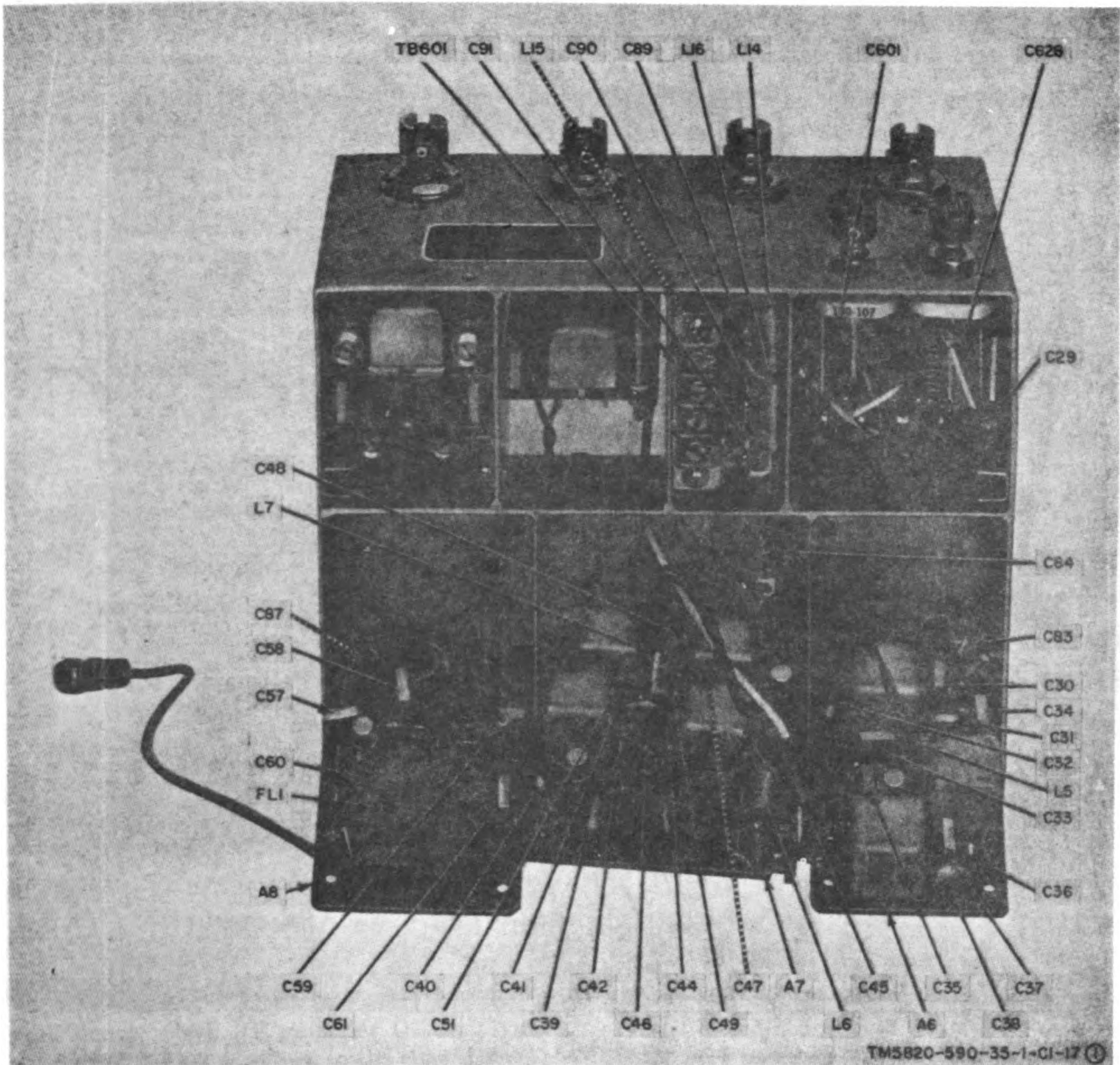


Figure 3-40. Frequency synthesizer module, bottom view, circuit boards removed (part 1 of 2).

NOTE

If voltage measurements for all frequency bands were below 30 millivolts, check transistors Q1 and Q2 and associated circuits as described in (j) below.

(a) Connect Oscilloscope AN/USM-140B to pin 2 of balanced mixer Z1 (fig. 3-9).

(b) Connect Frequency Meter AN/USM-207 to the vertical output of Oscilloscope AN/USM-140B.

(c) Check for an RF tuned circuit output frequency of 2 mc on the frequency meter.

(d) If an output frequency of 2,001 kc is not indicated on the frequency meter, the RF tuned circuit is defective. Check the RF

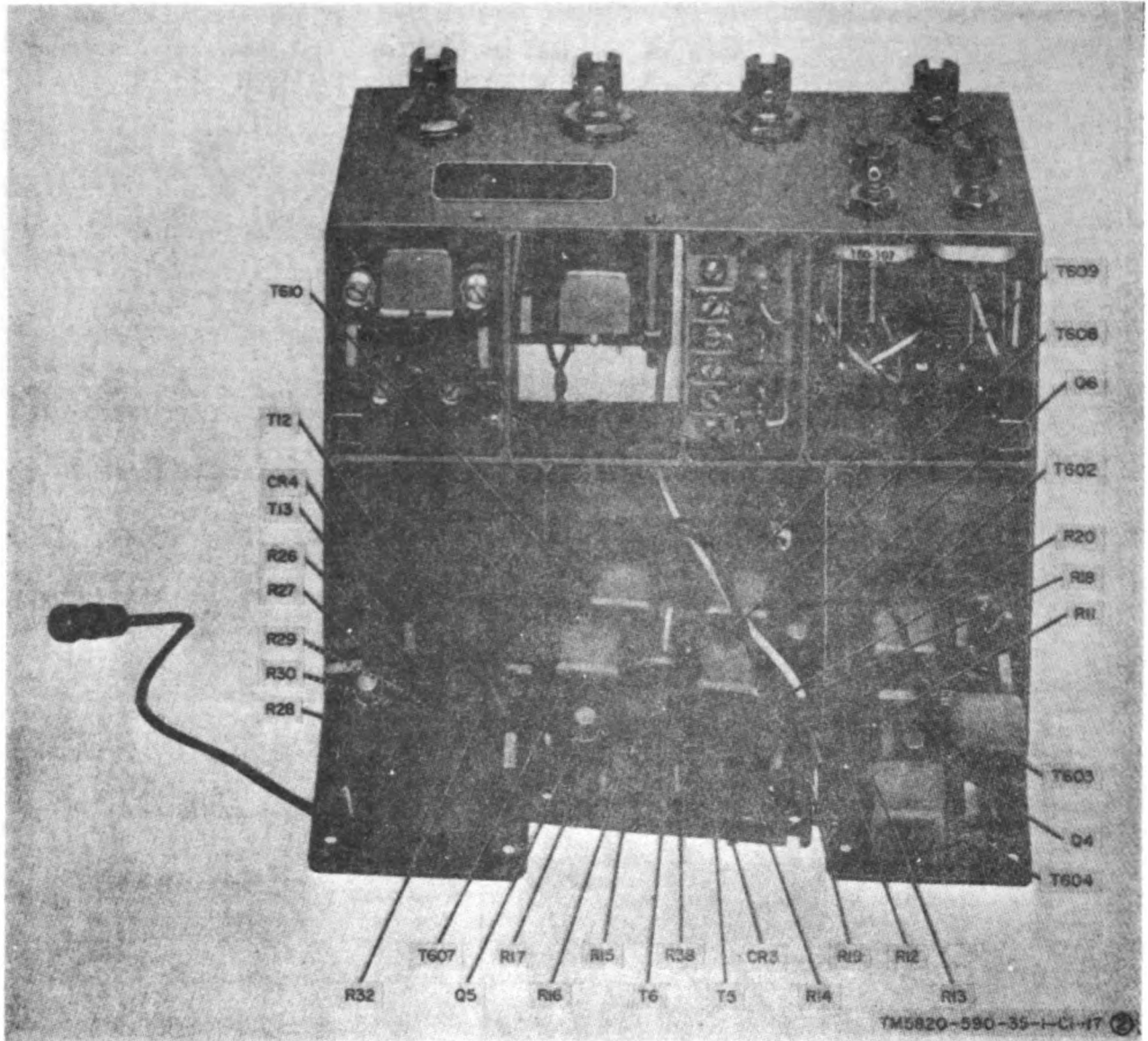


Figure 3-4①. Frequency synthesizer module, bottom view, circuit boards removed (part 2 of 2).

tuned circuit for defective components. Replace as required (paras 3-11 and 3-12).

(e) Connect the AN/USM-140B to pin 3 of Z1.

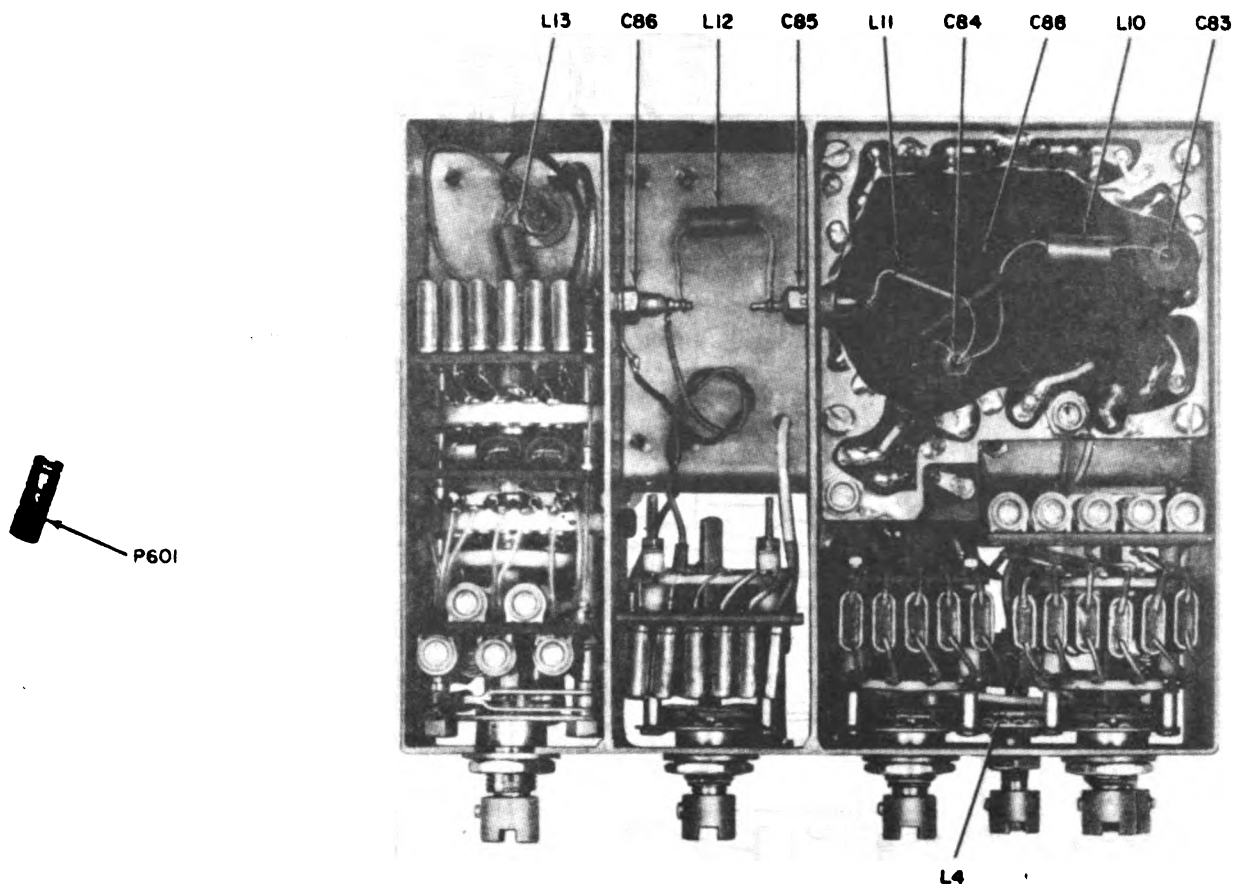
(f) Keep the frequency meter at the vertical output of Oscilloscope AN/USM-140B.

(g) Check for a synthesizer tuned frequency of 3,750 kc.

(h) If a frequency of 3,750 kc is not

indicated on the frequency meter, the synthesizer tuned circuit is defective. Check the synthesizer tuned circuit for defective components. Replace as required (para 3-11).

(i) If frequency measurements at pins 2 and 3 of Z1 are as indicated, check for defective balanced mixer Z1, transformer T717, or capacitor C38. Replace as required (para 3-11).



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Figure 3-5. Frequency synthesizer module, top view, circuit board A5 removed.

(j) Using Multimeter ME-26B/U (or equivalent), check RF amplifier Q1 and synthesizer amplifier Q2 as shown in the chart below.

Transistor	Approx voltage		
	E	B	C
Q1	+ 0.3	+ 0.16	+ 8
Q2	+ 0.85	+ 1.4	+ 5.7

NOTE

Figures 3-10 and 3-11 show the physical location of the components in the RF module.

b. Transmit Mode.

- (1) Connect a 100-ohm, 1/2-watt resistor to J704 (fig. 3-8).
- (2) Connect Electronic Voltmeter AN/URM-145 (or equivalent) across the load resistor.
- (3) Connect the Power Supply HP6439A No. 1 positive lead to pin 3 of TB701 and the negative lead to pin 4 of TB701 (fig. 3-9).

Connect a voltage divider consisting of a 1 kilohm resistor and a 5 kilohm potentiometer across the output of power supply No. 1 with the arm of the 5 kilohm potentiometer connected to terminal 2 of TB 701 (fig. 3-8 and 3-9).

(4) Connect the Power Supply HP6439A/U No. 2 positive lead to pin 1 of TB701 and the negative lead to pin 4 of TB701.

(5) Set power supply No. 2 to 12 volts \pm 10 percent, 500 ma.

(6) Set power supply No. 1 to 9 volts \pm 5 percent, 100 ma.

(7) Connect the AN/GRM-50 (or equivalent) through the 20-db match pad (fig. 3-1) to J705.

(8) Set the AN/GRM-50 for an output frequency of 1,750 kc at 260 millivolts.

(9) Connect the AN/URM-25D (or equivalent) to J708 (fig. 3-8).

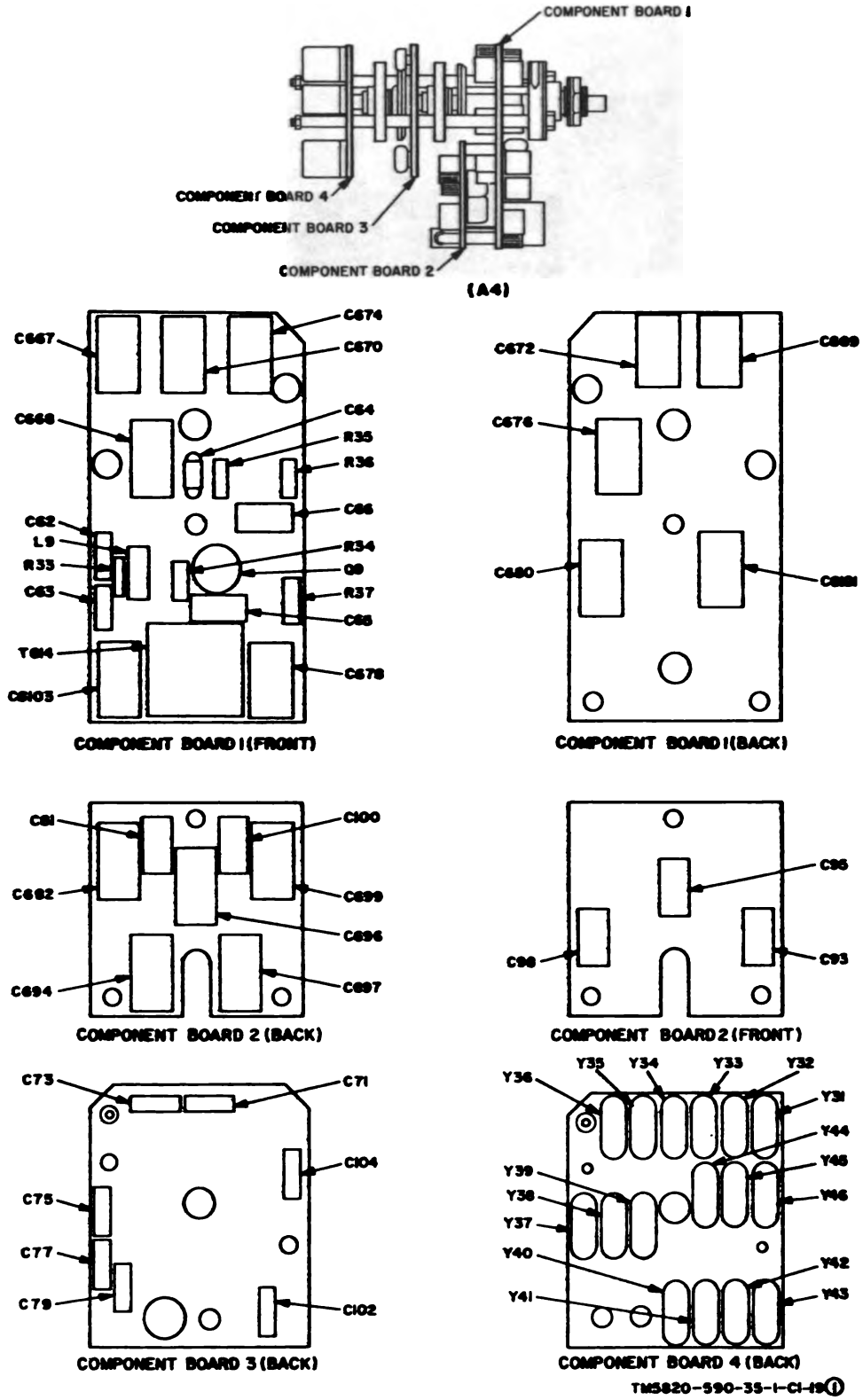


Figure 3-6①. Frequency synthesizer module, switch components board (part 1 of 2).

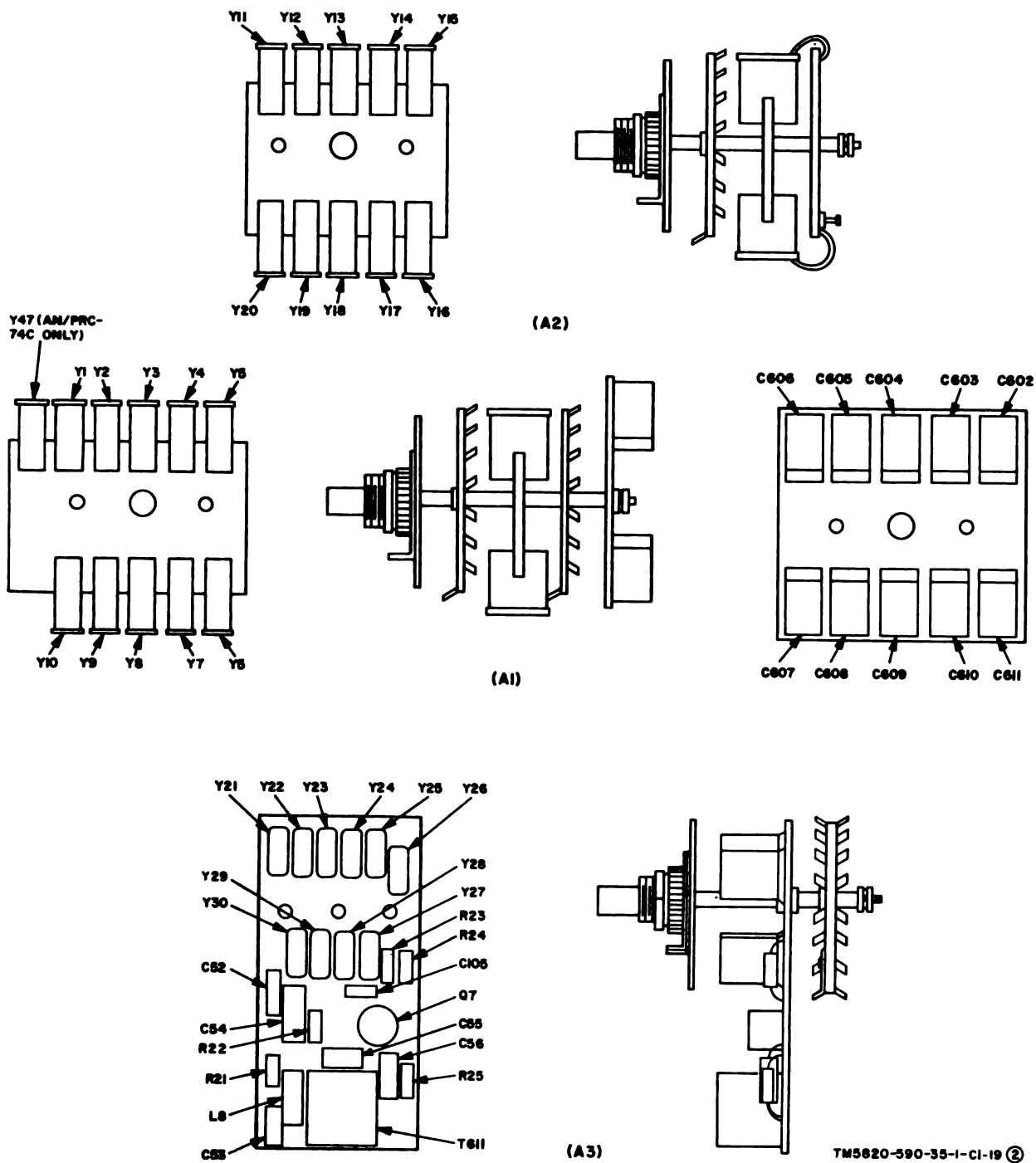
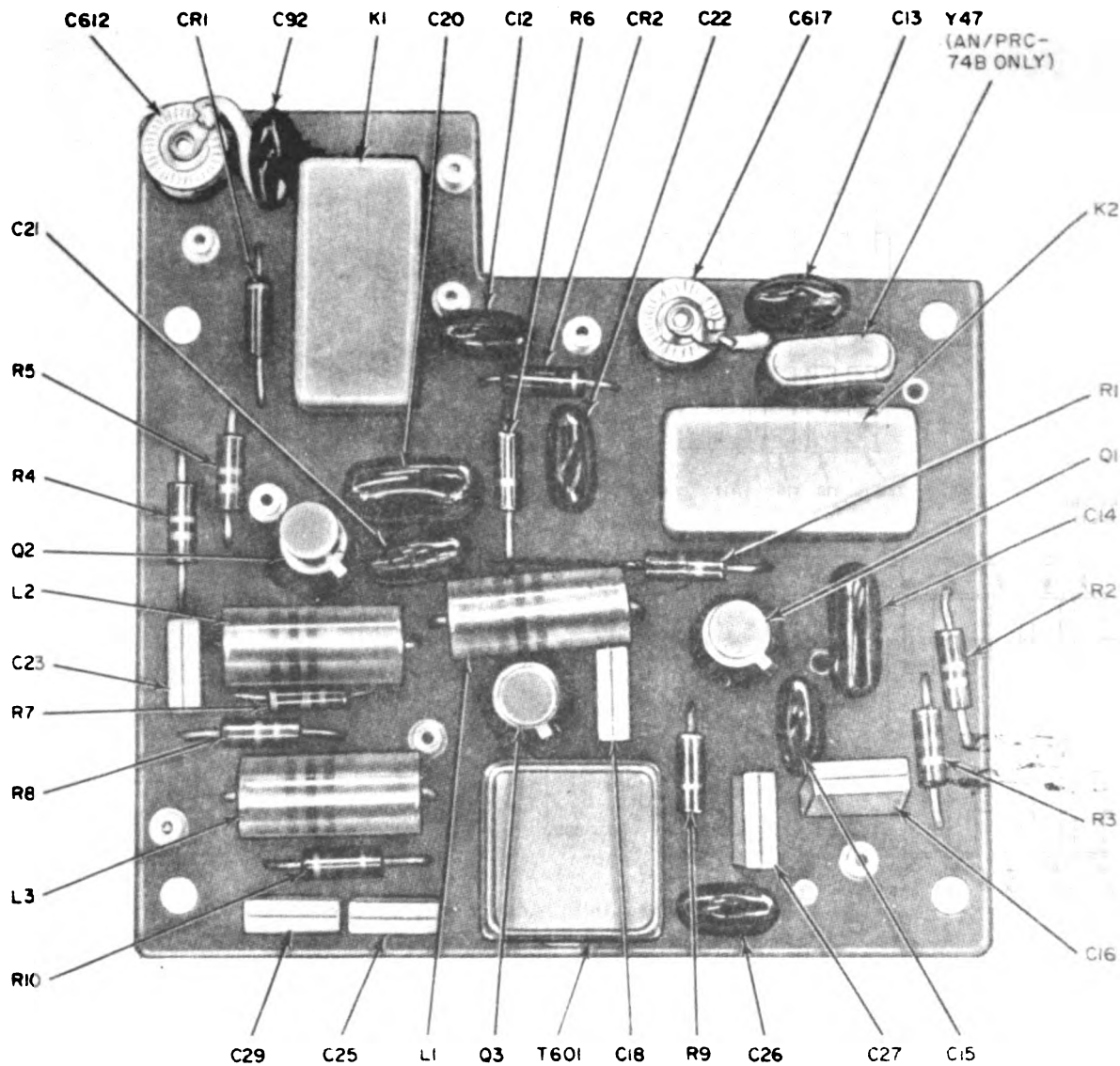


Figure 3-6(2). Frequency synthesizer module, switch component boards (part 2 of 2).



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Figure 3-7. Circuit Board A5, location of components.

(10) Set the AN/URM-25D for an output frequency of 3,750 kc at 100 millivolts.

(11) Set bandswitch S1 (fig. 3-9) to band 1 (fully clockwise) and adjust the 5 kilohm potentiometer for maximum output as indicated on the AN/URM-145.

(12) Adjust C701 for maximum output as indicated on the AN/URM-145.

(13) Check to see that the output at J704 is 70 millivolts, minimum.

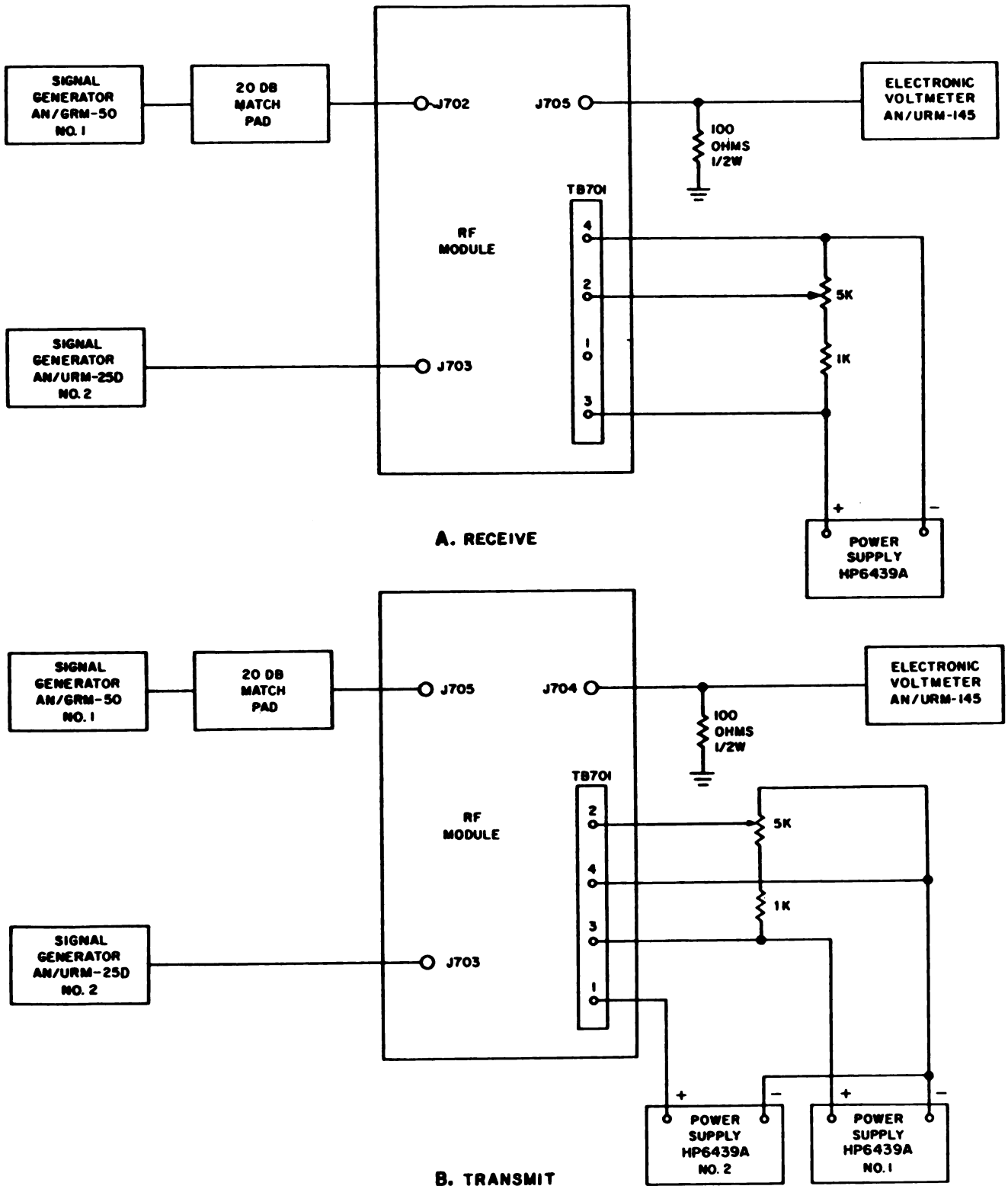
(14) Repeat the tests for frequencies in other bands as shown in the chart below, adjusting

the 5 kilohm potentiometer and C701 for maximum output for each setting.

AN/URM-25D frequency (kc)	Band
3,750	1
5,750	2
8,750	3
13,750	4

(15) If an output of less than 70 millivolts rms is indicated for any of the frequencies shown in (14) above, leave the test equipment connected as it is and perform alignment procedures for the RF module (para 3-23).

(16) If the RF module cannot be aligned



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Figure 3-8. RF module troubleshooting test setup.

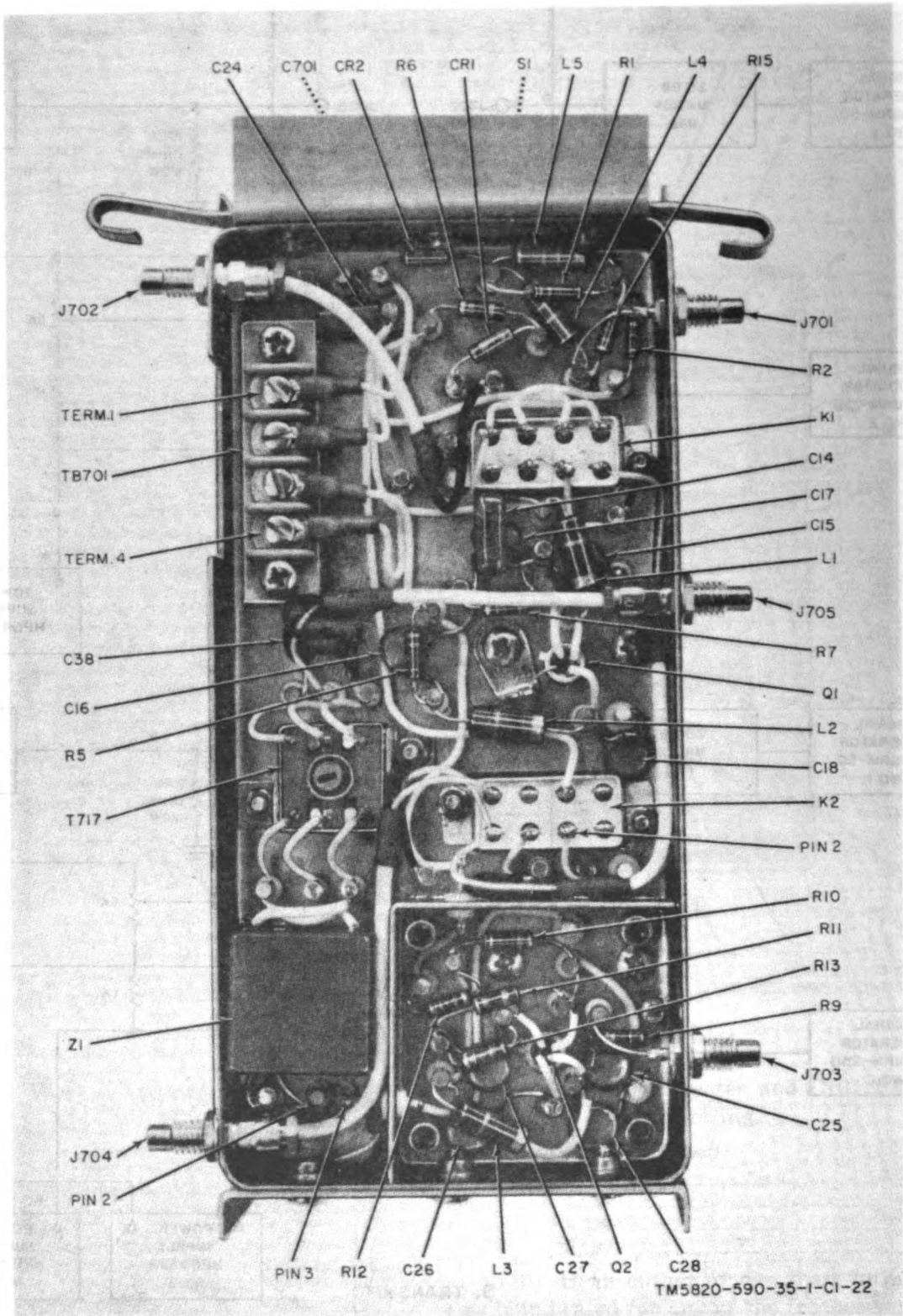


Figure 3-9. RF module, top view.

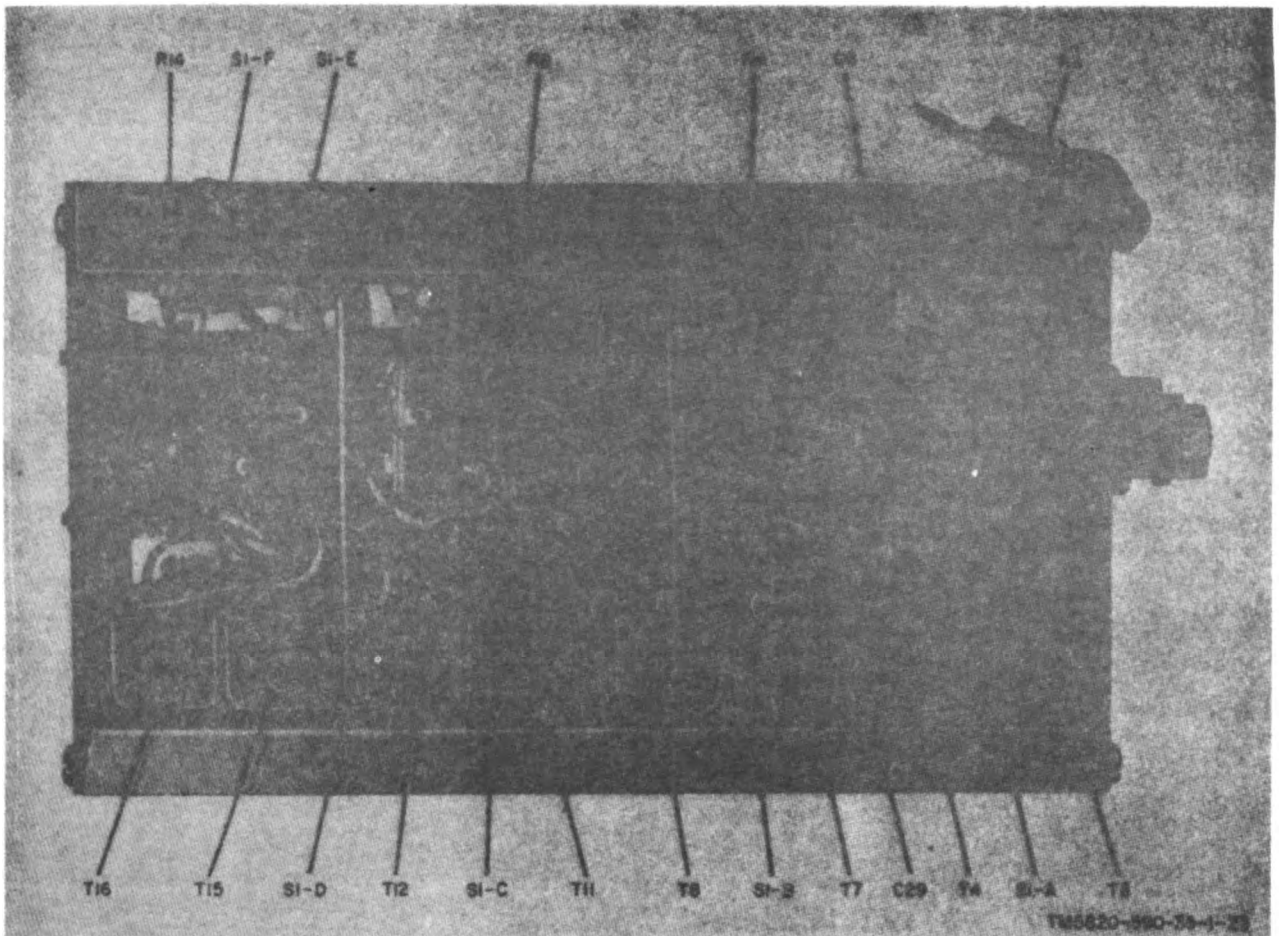


Figure 3-10. RF module, left-hand view.

as indicated in paragraph 3-23, check the RF module as described in *a*(17)(a) through (j) above; also check for defective relays K1 and K2. Replace the defective components as required (para 3-11 and 3-12).

3-4. If. Audio Module

a. Receive Test.

(1) Connect the IF audio module to the test equipment as shown in A, figure 3-12.

(2) Set power supply No. 1 to 9 volts at 50 milliamperes. Set power supply No. 2 to OFF.

(3) Set the AN/URM-25D to 1.750 mc at 1.0 volt rms. Set the AN/GRM-50 to 1.749 mc at 30 microvolts rms.

(4) Tune the AN/GRM-50 to obtain a

1-kc output at TB202, pin 1, as indicated by the AN/USM-207. The output at TB202, pin 1, as indicated by the ME-26B/U shall be greater than 1.0 volts rms. Adjust the 2,000-ohm potentiometer for a maximum deflection on the ME-26B/U.

(5) Set power supply No. 2 to 12 volts at 500 milliamperes. Vary the frequency of the AN/GRM-50 between 1.749 mc and 1.751 mc while observing the ME-26B/U and the AN/USM-207 indications. The ME-26B/U shall indicate not less than 1.0 volt rms. The AN/USM-207 shall indicate a decrease from 1 kc to 0 cps, then an increase to 1 kc.

(6) Adjust the level of the AN/GRM-50 to obtain 1.0 volt rms at TB202, pin 1.

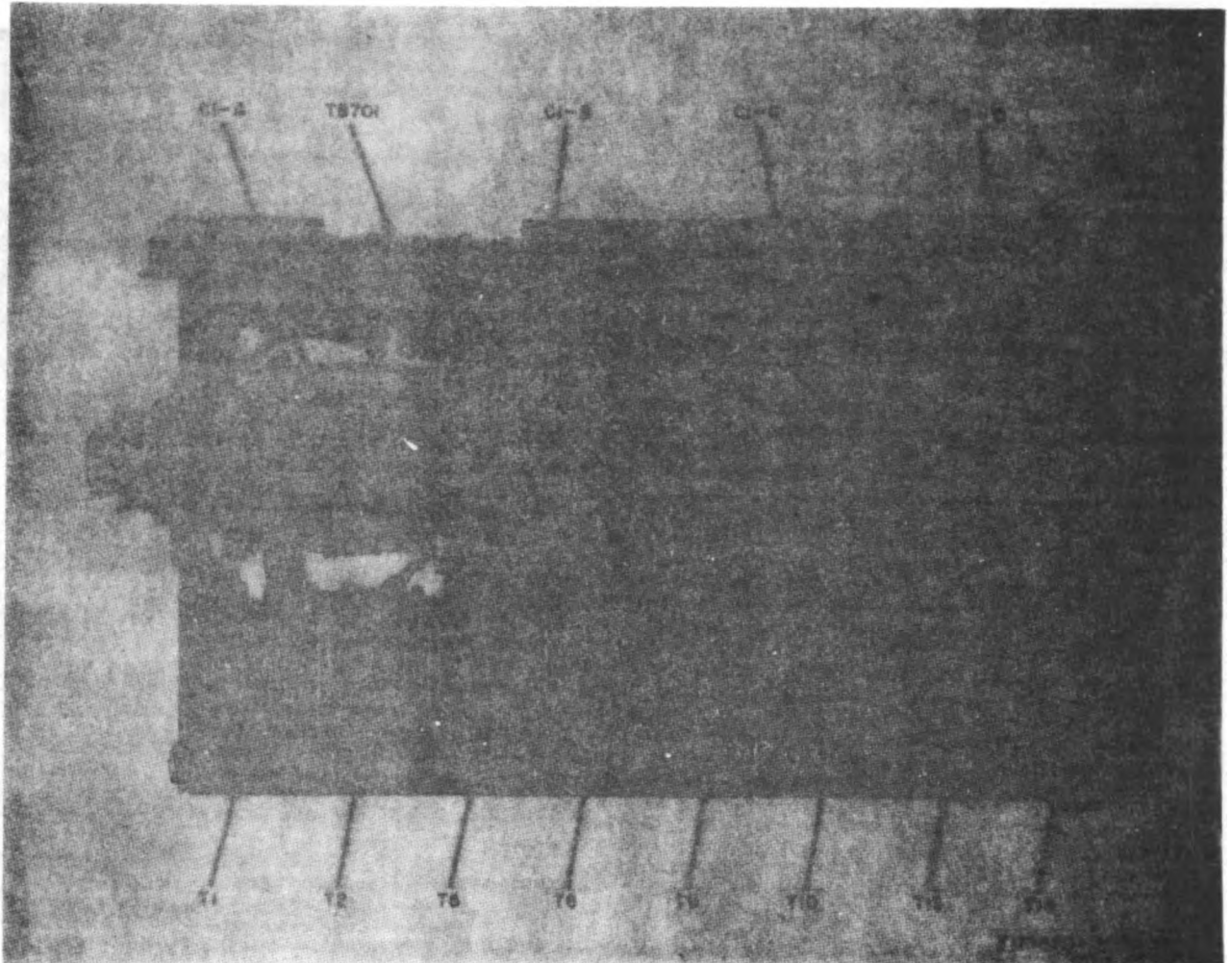


Figure 3-11. RF module, right-hand view.

(7) Set power supply No. 2 to OFF. The output at TB202, pin 1, shall be less than 0.1 volt rms.

(8) Set the AN/GRM-50 to 1.749 mc at 3.0 millivolts. Adjust the 2,000-ohm potentiometer for an output of 1.4 rms as indicated on the ME-26B/U. Adjust the frequency of the AN/GRM-50 for a maximum indication on the ME-26B/U. Reduce the output of AN/GRM-50 to 100 microvolts. Adjust the 2,000-ohm potentiometer for an output of 1.4 volts rms on the ME-26B/U. Vary the frequency of the AN/GRM-50 between 1.7497 mc and 1.7473 mc while observing the ME-26B/U and the AN/USM-207. The ME-26B/U shall not indicate below 1.0 volt rms at any frequency between

the two extremes. The AN/USM-207 shall show an increase from 800 to 2,700 cps.

(9) If any of the tests in (1) through (8) above fail, leave the test equipment connected and perform alignment as indicated in paragraph 3-24.

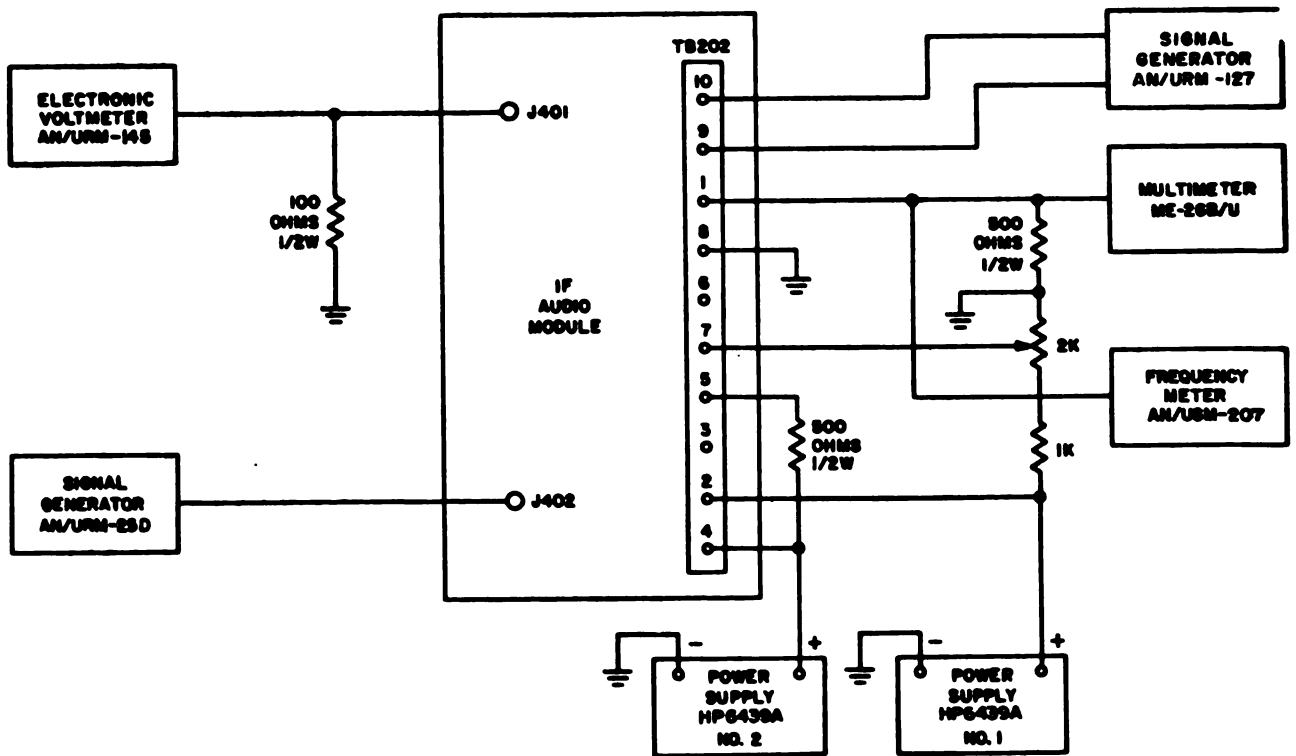
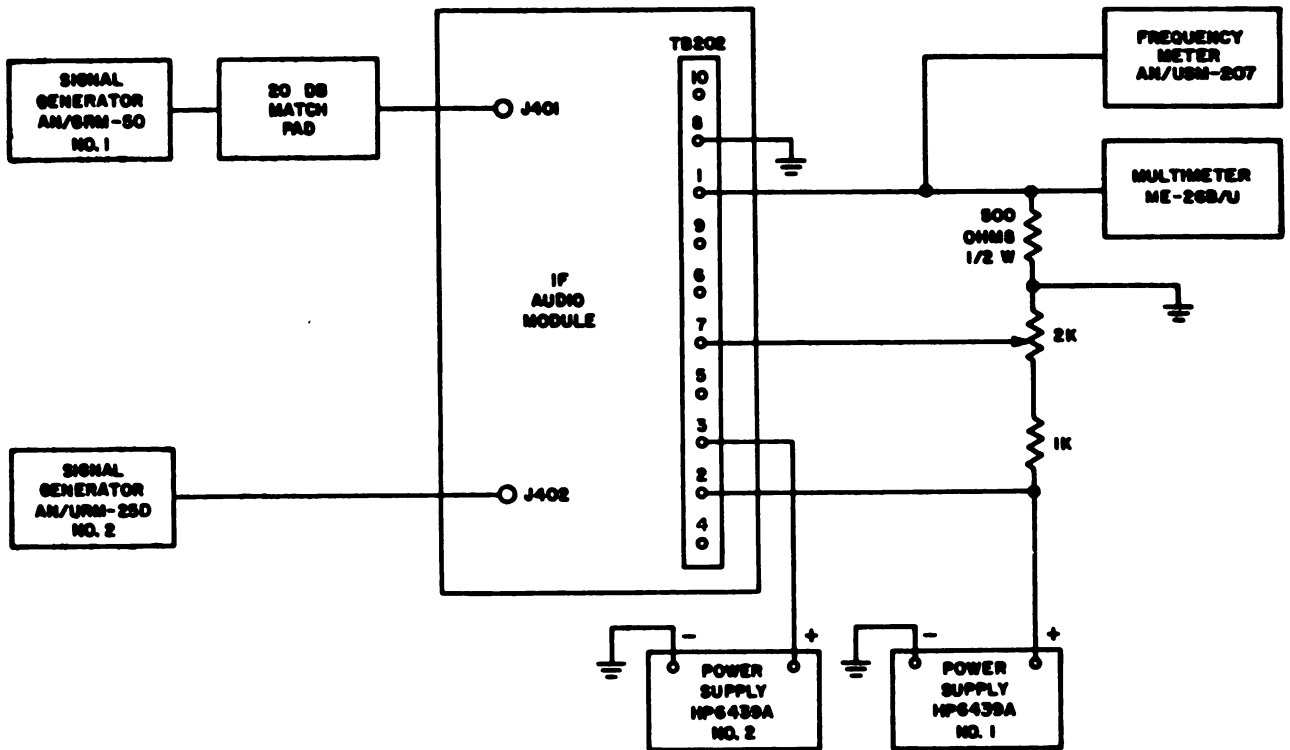
(10) If alignment cannot be performed, troubleshoot the IF audio module as follows:

(a) Remove IF audio amplifier A1 (para 3-18).

(b) Check IF audio amplifier A1 for defective components.

b. Transmit Test.

(1) Connect the IF audio module to the test equipment as shown in B, figure 3-12.



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Figure 3-19. IF audio module test setup.

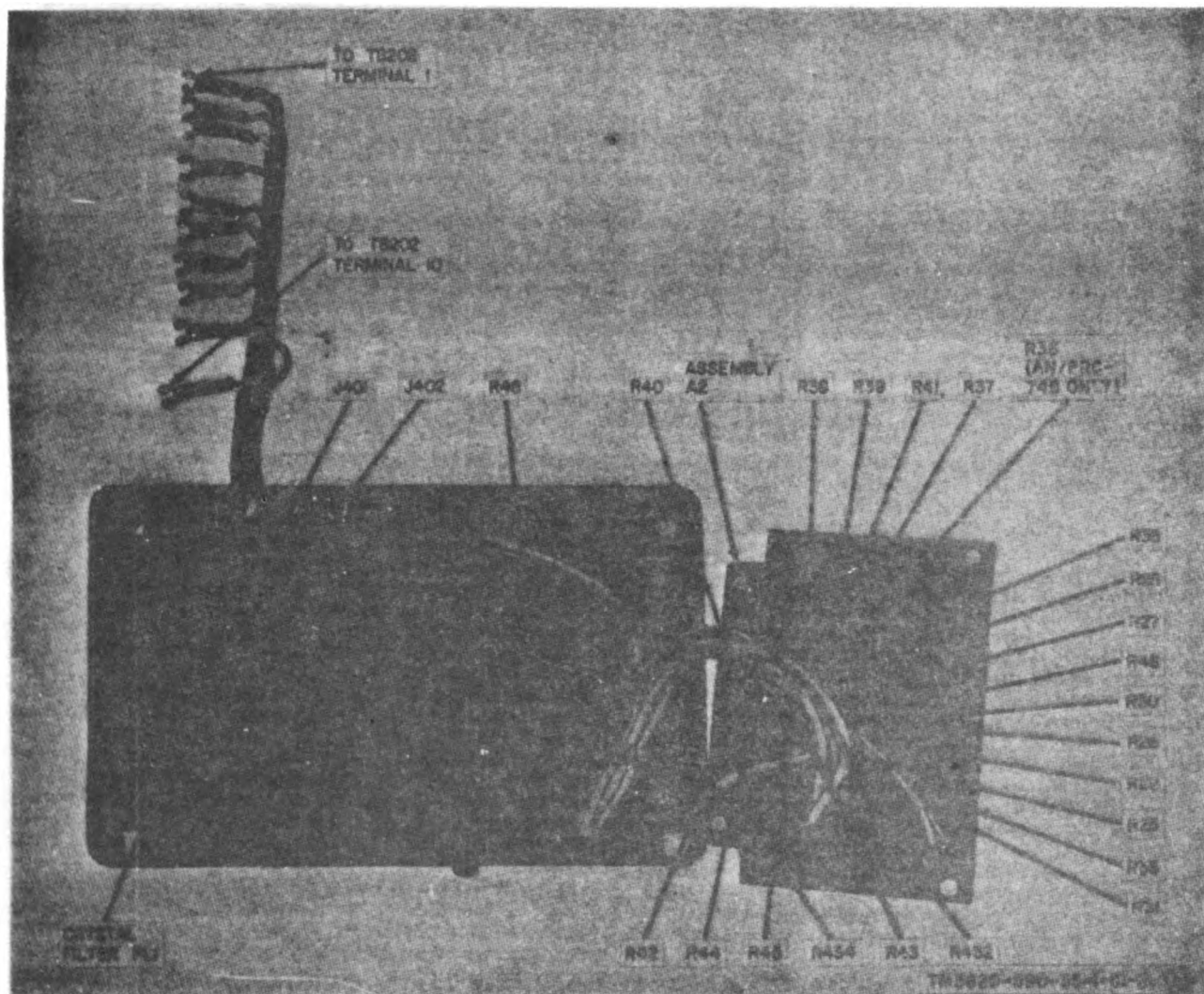


Figure 3-13①. IF audio module front view, component boards removed (part 1 of 2).

(2) Set power supply No. 1 to 9 volts at 50 milliamperes. Set power supply No. 2 to 12 volts at 500 milliamperes.

(3) Connect a clip head lead from pin 8 of TB202 to pin 6. An output of 0.2 volt rms or greater, at a frequency of 2,000 cps \pm 150 shall be observed at TB202, pin 1, as indicated by the ME-26B/U and the AN/USM-207, respectively.

(4) Set the AN/URM-25D to 1.750 mc at 1.0 volt rms. The output at J401 as indicated by the AN/URM-145 shall be greater than 28 millivolts rms.

(5) Measure the voltage between pin 5

(+) of TB202 and pin 8 with the ME-26B/U. The voltage shall be less than +3.0 volts.

(6) While observing the ME-26B/U at TB202, pin 5, remove the clip head from TB202, pin 6. Approximately 1 second after clip lead has been removed, the ME-26B/U shall indicate 12 volts. The AN/URM-145 at J401 shall indicate less than 0.22 millivolt rms.

(7) Set the AN/URM-127 to 1 kc at 1.2 millivolt rms. The AN/URM-145 at J401 shall indicate 26 millivolts rms or greater.

(8) The output at TB202, pin 1, as indicated by the ME-26B/U shall be 0.2 volt rms or greater.

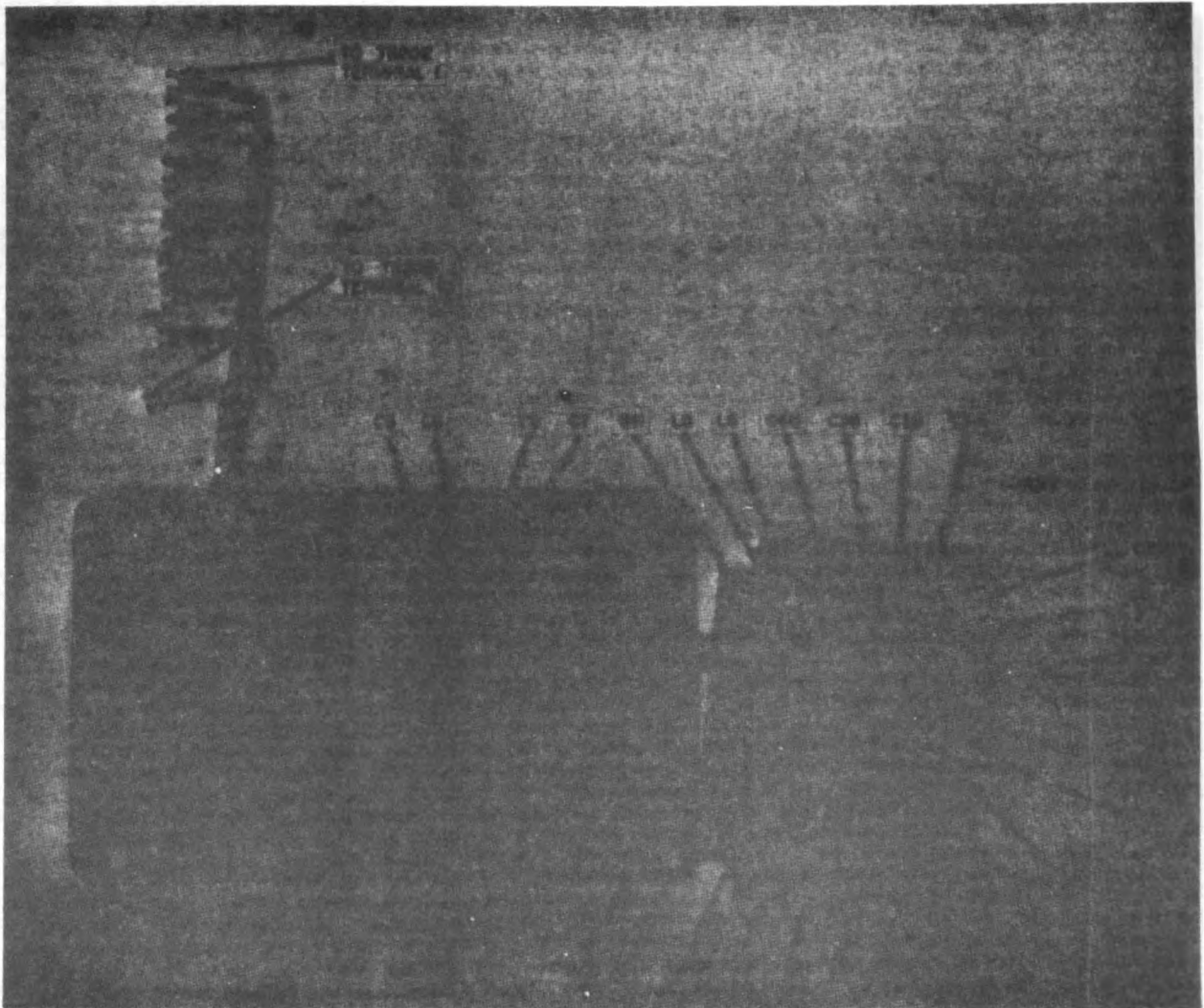


Figure 3-18D. IF audio module front view, component boards removed (part 2 of 2).

(9) Tune the AN/URM-127 for a maximum output at J401. Set the input audio signal to obtain 26 millivolts at J401. Hold the input level constant, and vary the AN/URM-127 frequency from 300 to 2,700 cps. The output at J401 shall not fall below 18.4 millivolts rms at any frequency between 300 and 2,700 cps.

(10) If any of the tests in (8) through (9) above fail, leave the test equipment connected and perform alignment as indicated in paragraph 3-24.

(11) If alignment cannot be performed, troubleshoot the IF audio module as follows:

(a) If the test given in (8) above fails, refer to figure 6-10 and check the tone oscillator, the microphone amplifiers, and the audio amplifier.

(b) If the test given in (4) above fails, check the balanced mixer, IF preamplifier, crystal filter, and contacts of relays K1 and K3.

(c) If the procedure in (5) above fails, check the cw hold circuit.

(d) Disassembly instructions for the IF audio module are contained in paragraph 3-18.

3-5. Frequency Generator Module

a. Connect a 100-ohm, 1/2-watt resistor between P501 and ground and another 100-ohm resistor between P502 and ground (figs. 3-14 and 3-15).

b. Connect Oscilloscope AN/USM-140B across the load resistor at P501.

c. Connect the AN/USM-207 to the vertical output of the AN/USM-140B.

d. Connect Electronic Voltmeter AN/URM-145 across the load resistor connected to P501.

e. Connect power supply No. 1 across terminal 3 (-) and terminal 1 (+) of TB501.

f. Set power supply No. 1 for an output of 12 volts \pm 10 percent.

g. Connect power supply No. 2 across terminal 3 (-) and terminal 2 (+) of TB501.

h. Set power supply No. 2 for an output of 9 volts \pm 5 percent.

i. Check for an output frequency of 1,750 kc \pm 10 cps at a level of 1.0 volt rms \pm 10 percent on the AN/USM-207. If the indication is not correct, proceed to *l* below.

j. Except for the load resistor, disconnect the test equipment from P501 and connect it in the same manner to P502.

k. Check for an output pulse with a duration of 1.25 microsecond \pm 0.25 and repetition rate of 10 kc \pm 1.0 cps as measured on the AN/USM-207. The pulse amplitude should be 0.8 volt peak to peak \pm 10 percent.

l. If the output is not as indicated in *i* or *k* above, leave the test equipment connected and follow the alignment instructions (para 3-25).

m. If the frequency generator module cannot be aligned as indicated, check it as follows:

(1) If an output as indicated in *i* above was not obtained at P501, the frequency standard is defective.

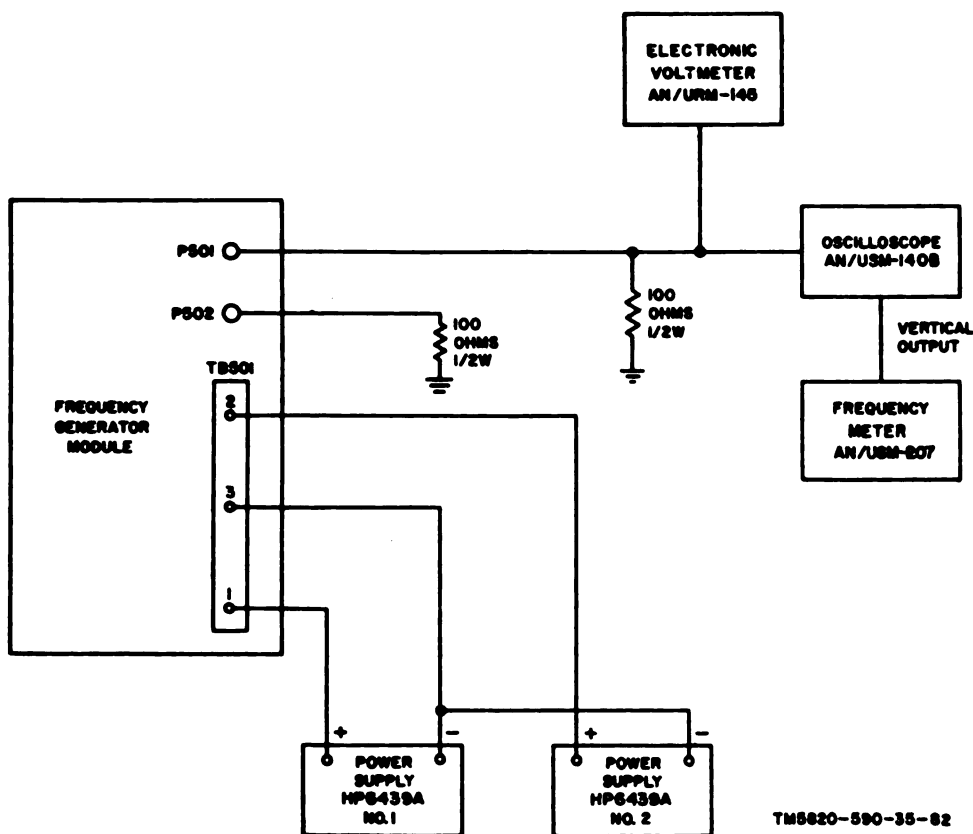


Figure 3-14. Frequency generator test setup.

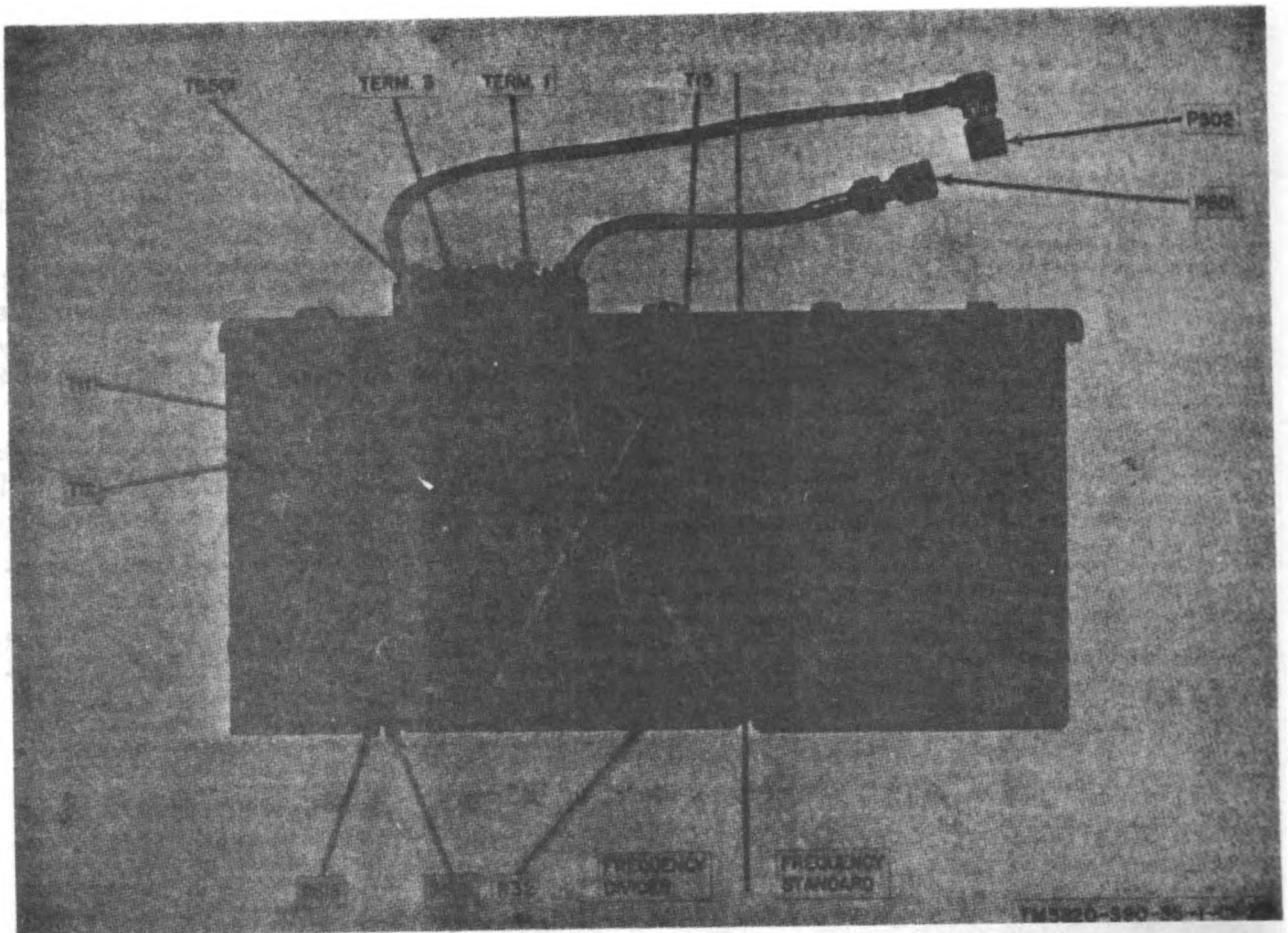


Figure 3-15. Frequency generator module, rear view.

(2) If an output as indicated in *k* above is not obtained at P502, the frequency divider is defective.

(3) Replace the frequency divider (paras 3-15 and 3-16), and return the defective unit to depot maintenance.

3-6. Deleted

Figure 3-16. Deleted.

Figure 3-17. Deleted.

Figure 3-18. Deleted.

Figure 3-19. Deleted.

Figure 3-20. Deleted.

3-7. Deleted

Figure 3-21. Deleted.

Figure 3-22. Deleted.

Figure 3-23. Deleted.

Section II. REPAIRS

3-8. General Parts Replacement Techniques

Most parts of the radio set can be reached and replaced easily without special procedures. The precautions in *a* through *d* below apply.

a. Careless replacement of parts often makes new faults inevitable. Proceed as follows:

(1) Before a part is unsoldered, note the position of the leads. If the part, such as a transformer, has numerous leads, tag each lead before removing.

(2) Be careful not to damage other leads or parts by pushing or pulling them out of the way.

(3) Do not allow drops of solder to fall into the unit.

(4) A carelessly soldered connection may create a new fault. It is important to make well-soldered joints, because a poorly soldered joint is one of the most difficult faults to find.

b. Do not disturb the settings of variable coils, potentiometers, or capacitors unless specified.

c. Use a pencil-type soldering iron with a 25-watt maximum capacity. This unit is transistorized. If only ac-operated irons are available, use an isolation transformer. Do not use a soldering gun; damaging voltages can be induced in components. Check soldering irons for short circuits to the tip before using.

d. When soldering transistor leads, solder quickly; where wiring permits, use a heat sink (such as a pair of long-nosed pliers) between the soldered joint and the transistor. Use approximately the same length and dress of transistor leads as used originally.

e. (Applies to AN/PRC-74C only). When removing component bonded to surfaces of the module use a sharp knife to cut through the adhesive. When replacing component bond in the same place as removed component use adhesive (Hughes part number 760473 or equivalent).

3-9. Frequency Synthesizer Module Disassembly (fig. 3-24)

The procedures in *a* through *i* below will aid general support maintenance personnel in replacing individual components, or in complete disassembly of the frequency synthesizer module.

a. *Module Covers*. To remove the module covers, remove seven screws (1) and lift module covers (50 and 51) from chassis (49).

b. *Component Boards (A5, A6, A7, and A8)*. Remove component boards ((6), (7), (8), or (9)) from the synthesizer module as follows:

(1) Remove studs (2), screws (3), lockwashers (4), and washers (5).

(2) Unsolder wire connections, and lift component board from chassis.

c. *1-Mc Switch Assembly A4 Removal*. Remove 1-mc switch assembly A4 (14) as follows:

(1) Remove two setscrews (10) and coupler (11).

(2) Remove nut (12) and lockwasher (13).

(2.1) Remove screw (13A) and lockwasher (13B).

(2.2) (Applies to AN/PRC-74C only). Remove screw (13C), nut (13E), lockwasher (13F) and flat washer (13G).

(2.3) (Applies to AN/PRC-74C only). Remove screw (13D), nut (13E), lockwasher (13F) and flat washer (13G).

(3) Lift 1-mc switch assembly A4 (14) and unsolder the wire connections.

(4) Disassemble 1-mc switch assembly A4 (14) (fig. 3-25) as follows:

(a) (Applies to AN/PRC-74B only). Remove two rear nuts and washers attaching components to switch.

(a.1) (Applies to AN/PRC-74C only). Remove two rear locknuts and slide switch bracket from switch.

(b) Slide components and attaching parts from switch.

(c) Remove two front nuts.

d. *100-Kc Switch Assembly A3 Removal* (fig. 3-24). Remove 100-kc switch assembly A3 (25) as follows:

(1) Remove nut (15) and lockwasher (16) and washer (17).

(2) Remove screw (18), glass washer (19), and spacer (20).

(3) Remove two setscrews (21) and coupler (22).

(4) Remove nut (23) and lockwasher (24).

(5) Lift 100-kc switch assembly A3 (25), and unsolder the wire connections.

(6) Disassemble 100-kc switch assembly A3 (fig. 3-25) as follows:

(a) Remove two nuts and washers attaching components to switch.

(b) Slide components and attaching parts from switch.

(c) Remove two mounting screws.

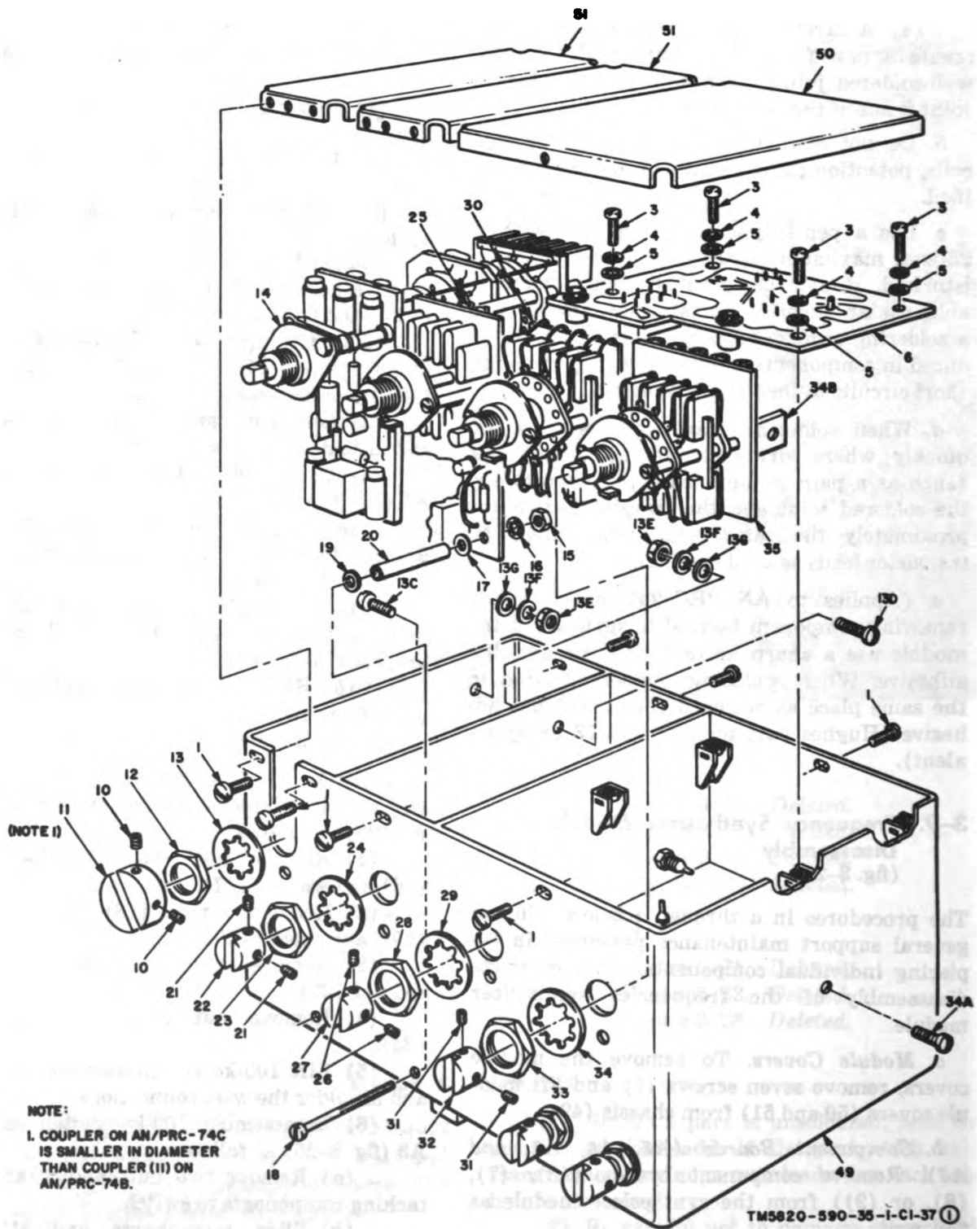


Figure 3-24①. Frequency synthesizer module, exploded view (part 1 of 2).

e. 10-Kc Switch Assembly A2 Removal (fig. 3-24). Remove 10-kc switch assembly A2 (30) as follows:

(1) Remove two setscrews (26) and coupler (27).

(2) Remove nut (28) and lockwasher (29).

(3) Lift 10-kc switch assembly A2 (30) and unsolder wire connections.

(4) Disassemble 10-kc switch assembly A2 (fig. 3-25) as follows:

(a) Remove two nuts and washers attaching components to switch.

(b) Slide components and attaching parts from switch.

(c) Remove two mounting screws.

f. 1-Kc Switch Assembly Removal A1. Remove 1-kc switch assembly A1 (35) as follows:

(1) Remove two setscrews (31) and coupler (32).

(2) Remove nut (33) and lockwasher (34).

(2.1) (Applies to AN/PRC-74C only). Remove screw (34A) from angle bracket (34B).

(3) Lift 1-kc switch assembly A1 (35), and unsolder the wire connections.

(4) Disassembly 1-kc switch assembly A1 (fig. 3-25) as follows:

(a) Remove two nuts and washers attaching components to the 1-kc switch.

(a.1) (Applies to AN/PRC-74C only). Slide angle bracket from switch mounting screw.

(b) Slide components and attaching parts from switch shaft.

(c) Remove two mounting screws.

g. Capacitor C628 (fig. 3-24). Remove capacitor C628 (40) as follows:

(1) Remove two setscrews (36) and coupler (37).

(2) Remove nut (38) and lockwasher (39).

(3) Lift capacitor C628 (40) from chassis (49), and unsolder wire connections.

h. Capacitor C601. Remove capacitor C601 (45) as follows:

(1) Remove two setscrews (41) and coupler (42).

(2) Remove nut (43) and lockwasher (44).

(3) Lift capacitor C601 (45) from chassis (49), and unsolder wire connections.

i. Terminal Board TB601. Remove terminal board TB601 (48) as follows:

(1) Disconnect harness wire from terminal board TB 601 (48).

(2) (Applies to AN/PRC-74B only). Remove two screws (46) and washers (47), and lift terminal board TB601 (48) from chassis (49).

(3) (Applies to AN/PRC-74C only). Remove two screws (46), lockwashers (46A) and flat washers (47), and lift terminal board TB601 (48) from chassis (49).

3-10. Frequency Synthesizer Module Assembly (fig. 3-24)

For reassembly of individual parts or components of the frequency synthesizer, and for complete reassembly of the frequency synthesizer module, refer to *a* through *i* below.

a. Terminal Board TB601. Replace terminal board TB601 (48) as follows:

(1) (Applies to AN/PRC-74B only). Position terminal board TB601 (48) on chassis (49), and attach washers (47) and screws (46).

(1.1) (Applies to AN/PRC-74C only). Position terminal board TB601 (48) on chassis (49) and attach flat washers (47), lockwashers (46A), and screws (46).

(2) Connect harness wires to terminal board TB601.

b. Capacitor C601. Replace capacitor C601 (45) as follows:

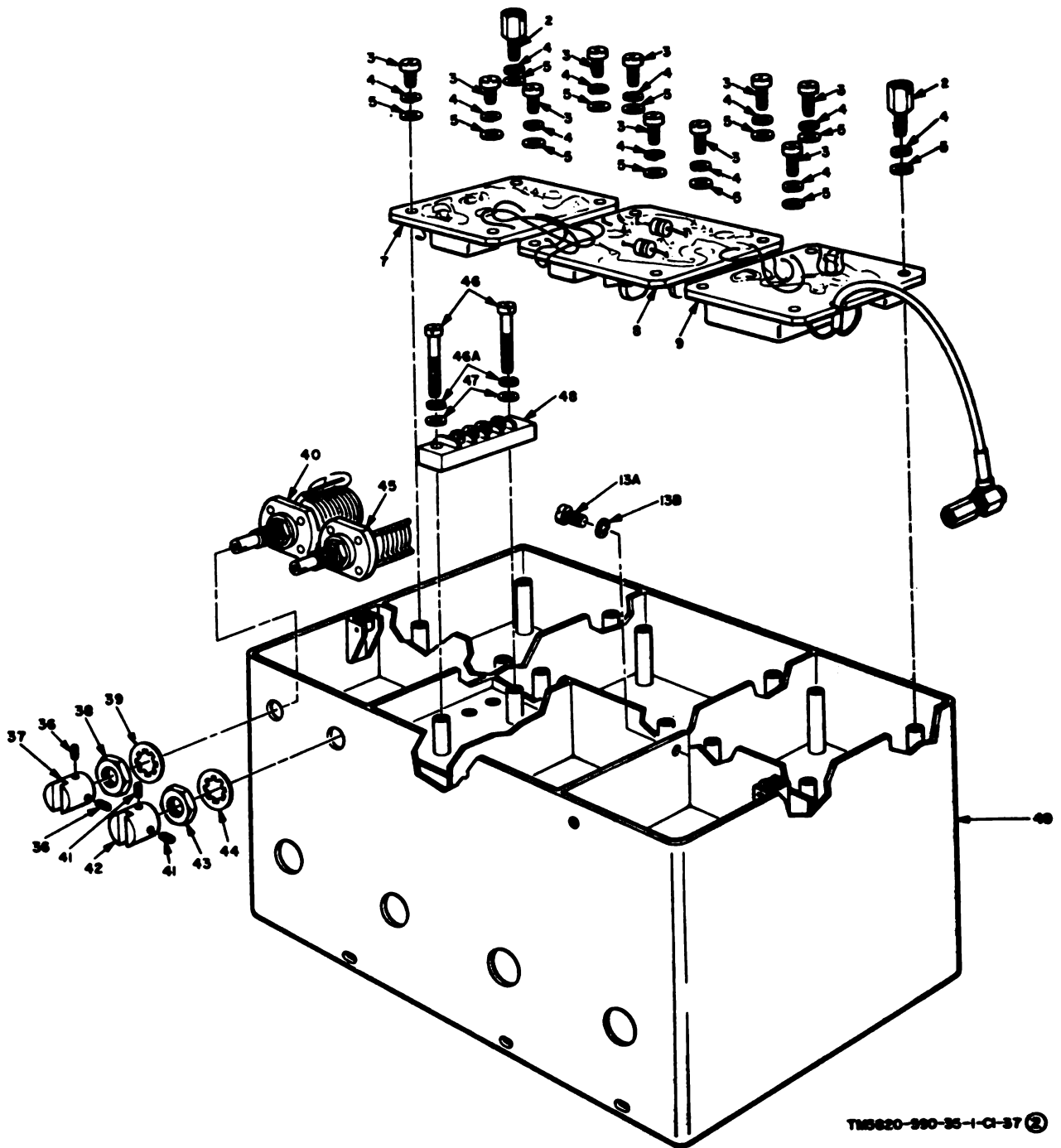
(1) Solder wires to capacitor C601 (45), and position in chassis (49).

(2) Attach lockwasher (44) and nut (43).

(3) Place coupler (42) on capacitor shaft, and attach setscrews (41).

c. Capacitor C628. Replace capacitor C628 (40) as follows:

(1) Solder wires to capacitor C628 (40), and position in chassis (49).



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Figure 3-24③. Frequency synthesizer module, exploded view (part 2 of 2).

1 Screw	13F Lockwasher (AN/PRC-74C only)	34 Lockwasher
2 Stud	13G Flatwasher AN/PRC-74C only)	34A Screw (AN/PRC-74C only)
3 Screw	14 1-mc switch assembly A4	34B Angle bracket (AN/PRC-74C only)
4 Lockwasher	15 Nut	35 1-kc switch assembly A1
5 Washer	16 Lockwasher	36 Setscrew
6 1-kc and 10-kc oscillator mixer amplifier component board A5.	17 Washer	37 Coupler
7 10-kc mixer amplifier component board A6.	18 Screw	38 Nut
8 100-kc mixer amplifier component board A7.	19 Glass washer	39 Lockwasher
9 1-mc mixer amplifier component board A8.	20 Spacer	40 Capacitor C628
10 Setscrew (AN/PRC-74B only)	21 Setscrew	41 Setscrew
11 Coupler (AN/PRC-74B only)	22 Coupler	42 Coupler
12 Nut	23 Nut	43 Nut
13 Lockwasher	24 Lockwasher	44 Lockwasher
13A Screw	25 100-kc switch assembly A8	45 Capacitor C601
13B Lockwasher	26 Setscrew	46 Screw
13C Screw (AN/PRC-74C only)	27 Coupler	46A Lockwasher (AN/PRC-74C only)
13D Screw (AN/PRC-74C only)	28 Nut	47 Washer
13E Nut (AN/PRC-74C only)	29 Lockwasher	48 Terminal board TB601
	30 10-kc switch assembly A2	49 Chassis
	31 Setscrew	50 Module cover, large
	32 Coupler	51 Module cover, small
	33 Nut	

Figures 3-24①.—Continued.

(2) Attach lockwasher (39) and nut (38).

(3) Place coupler (37) on capacitor shaft, and attach setscrews (36).

d. 1-Kc Switch Assembly A1. Assemble and install 1-kc switch assembly A1 (35) as follows:

(1) *Assembly.*

(a) Insert screws through mounting holes of switch (fig. 3-25).

(b) Install spacers, washers, component boards, and wafers as shown.

(b.1) (Applies to AN/PRC-74C only). Slide angle bracket onto outside mounting screw.

(c) Attach washers and nuts.

(2) *Installation* (fig. 3-24). Position 1-kc switch assembly A1 (35), and solder wire connections.

(a) Install 1-kc switch assembly A1 (35) in chassis (49); place switch assembly locating key in mounting hole of chassis (49).

(a.1) (Applies to AN/PRC-74C only). Insert screw (34A) through chassis (49) into angle bracket (34B).

(b) Attach lockwasher (34) and nut (33) to switch assembly shaft.

(c) Place coupler (32) on switch assembly shaft, and attach setscrews (31).

e. 10-Kc Switch Assembly A2. Assemble and install 10-kc switch assembly A2 (30) as follows:

(1) *Assembly.*

(a) Insert screws through mounting hole of switch (fig. 3-25).

(b) Install spacers, washers, component boards, and wafers as shown.

(c) Attach washers and nuts.

(2) *Installation* (fig. 3-24). Position 10-kc switch assembly A1 (30), and solder wire connections.

(a) Install 10-kc switch assembly A2 (30) in chassis (49); place switch assembly locating key in mounting hole of chassis (49).

(b) Attach lockwasher (29) and nut (28) to switch assembly shaft.

(c) Place coupler (27) on switch assembly shaft, and attach setscrews (26).

f. 100-Kc Switch Assembly A3. Assemble and install 100-kc switch assembly A3 (25) as follows:

(1) *Assembly.*

(a) Insert two screws through mounting holes of the switch (fig. 3-25).

(b) Install spacers, washers, component boards, and wafers as shown.

(c) Attach washers and nuts.

(2) *Installation* (fig. 3-24). Position 100-

kc switch assembly A3 and solder wire connections.

(a) Insert screw (18) through mounting holes of chassis (49).

(b) Install glass washer (19), spacer (20), and washer (17).

(c) Install 100-kc switch assembly A3 (25) on screw (18), and attach lockwasher (16).

(d) Secure 100-kc switch assembly A3 (25) with nut (15).

(e) Attach lockwasher (24) and nut (23) to switch assembly shaft.

(f) Place coupler (22) on switch assembly shaft, and secure with setscrews (21).

g. 1-Mc Switch Assembly A4. Assemble and install 1-mc switch assembly A4 (14) as follows:

(1) *Assembly.*

(a) Insert screws through mounting holes of switch (fig. 3-25).

(b) Install spacers, washers, component boards, and wafers as shown.

(b.1) (Applies to AN/PRC-74C only). Install retaining clip on lower corner of component board as shown.

(b.2) (Applies to AN/PRC-74C only). Install switch bracket at the rear of switch mounting screws as shown.

(c) Attach washers and nuts.

(2) *Installation* (fig. 3-24). Position 1-mc switch assembly A4 (14), and solder wire connections.

(a) (Applies to AN/PRC-74C only). Insert screw (18D) and attach flat washer (18G), lockwasher (18F) and nut (18E).

(a.1) (Applies to AN/PRC-74C only). Insert screw (18C) and attach flat washer (18G), lockwasher (18F) and nut (18E).

(a.2) Insert screw (18A) and lockwasher (18B).

(a.3) Attach lockwasher (18) and nut (12) to switch assembly shaft.

(b) Place coupler (11) on switch assembly shaft, and attach setscrews (10).

h. Component Boards A5, A6, A7, and A8. Install component boards (6 through 9) as follows:

(1) Position component board, and solder wire connections.

(2) Attach component board to chassis (49), with washers (5), lockwashers (4), studs (2), and screws (3).

i. Module Covers. To install frequency synthesizer covers, position covers (50 and 51) on module chassis (49), and attach screws (1).

3-11. RF Module Disassembly (fig. 3-26)

Disassemble the RF module as follows:

a. (Applies to AN/PRC-74B only). Remove four screws (1) and cover (2).

a.1 (Applies to AN/PRC-74C only). Remove four screws (1), lockwashers (1A) and cover (2).

b. Remove nuts (3 and 4) and lockwashers (5).

c. (Applies to AN/PRC-74B only). Remove six screws (6) and rear chassis plate (7).

c.1 (Applies to AN/PRC-74C only). Remove six screws (6) and rear chassis plate (7A).

d. (Applies to AN/PRC-74B only). Remove three screws (8) and ground strap (9).

d.1 (Applies to AN/PRC-74C only). Remove three screws (8) and ground bracket (9A).

e. Remove four screws (10), and lift lower tray assembly (11) from module. Unsolder wire connections.

f. (Applies to AN/PRC-74B only). Remove two setscrews (12) and coupler (13).

g. Remove nut (16), lockwasher (17), and screw (18).

h. (Applies to AN/PRC-74B only). Remove nut (14), and lift capacitor C701 (15) from the module. Unsolder wire connections from bandswitch S1 (25) to upper tray assembly (20).

h.1 (Applies to AN/PRC-74C only). Remove nut (14), and lift capacitor C701 (15) with fixed coupler (15A) from the module. Unsolder wire connections from bandswitch S1 (25) to upper tray assembly (20).

i. (Applies to AN/PRC-74B only). Remove three screws (19), and lift bandswitch S1

(25) and front chassis plate (26) from upper tray assembly (20).

i.1 (Applies to AN/PRC-74C only). Remove three screws (19) and lift bandswitch S1 (25) and front chassis plate (27) from upper tray assembly (20).

j. Remove two setscrews (21) and coupler (22).

k. Remove nut (23) and lockwasher (24).

l. (Applies to AN/PRC-74B only). Remove bandswitch S1 (25) from front chassis plate (26).

m. (Applies to AN/PRC-74C only). Remove bandswitch S1 (25) from front chassis plate (27).

3-12. RF Module Assembly (fig. 3-26)

Reassemble the RF module as follows:

a. (Applies to AN/PRC-74B only). Install bandswitch S1 (25) in front chassis plate (26), and attach lockwasher (24) and nut (23).

a.1 (Applies to AN/PRC-74C only). Install bandswitch S1 (25) in front chassis plate (27) and attach lockwasher (24) and nut (23).

b. Install coupler (22) on bandswitch S1 shaft, and attach two setscrews (21).

c. (Applies to AN/PRC-74B only). Position bandswitch S1 (25) and front chassis plate (26) on upper tray assembly (20).

c.1 (Applies to AN/PRC-74C only). Position bandswitch S1 (25) and front chassis plate (27) on upper tray assembly (20).

d. Attach three screws (19).

e. Attach screw (18), lockwasher (17), and nut (16).

f. (Applies to AN/PRC-74B only). Install capacitor C701 (15) on nut assembly (e above), and secure to front chassis plate (26) with nut (14).

f.1 (Applies to AN/PRC-74C only). Install capacitor C701 (15) with fixed coupler (15A) on nut assembly (e above), and secure to front chassis plate (27) with nut (14).

g. (Applies to AN/PRC-74B only). Install coupler (13) on capacitor shaft, and attach two setscrews (12).

h. Solder wire connections to lower tray assembly (11).

i. Attach lower tray assembly to module with four screws (10).

j. (Applies to AN/PRC-74B only). Attach ground strap (9), and secure front chassis plate (26), with three screws (8).

j.1 (Applies to AN/PRC-74C only). Attach ground bracket (9A) and secure front chassis plate (27) with three screws (8).

k. (Applies to AN/PRC-74B only). Attach rear chassis plate (7) with six screws (6).

k.1 (Applies to AN/PRC-74C only). Attach rear chassis plate (7A) with six screws (6).

l. Secure bandswitch S1 (25) with two lockwashers (5) and nuts (4).

m. Secure capacitor C701 (15) with nut (8).

n. (Applies to AN/PRC-74B only). Attach cover (2) with four screws (1).

o. (Applies to AN/PRC-74C only). Attach cover (2) with four lockwashers (1A) and screws (1).

3-13. IF Audio Module Disassembly (fig. 3-27)

Disassemble the IF audio module as follows:

a. Lift lower module cover (1) from module chassis (12).

b. (Applies to AN/PRC-74B only). Remove four screws (2), and lift IF audio amplifier component board A1 (8) from module chassis (12). Unsolder wire connections.

b.1 (Applies to AN/PRC-74C only). Remove four screws (2) with flat washers (2A), and lift IF audio amplifier component board A1 (8) from module chassis (12). Unsolder wire connections.

c. Lift upper module cover (4) from module chassis (12).

d. (Applies to AN/PRC-74B only). Remove four screws (5), and lift microphone amplifier-

mixer component board A2 (6) from module chassis (12). Unsolder wire connections.

d.1 (Applies to AN/PRC-74C only). Remove four screws (5) with flat washers (5A), and lift microphone amplifier-mixer component board A2 (6) from module chassis (12). Unsolder wire connections.

e. Unsolder wires connected to IN and OUT terminals of crystal filter FL1 (9).

f. Remove four screws (7) and lockwashers (8).

g. Remove terminal lugs (8A), and lift crystal filter FL1 (9) from module chassis (12).

h. Unsolder wire connections to filter bracket assembly A3 (11).

i. Remove two screws (10), and lift filter bracket assembly A3 (11) from module chassis (12).

3-14. IF Audio Module Assembly (fig. 3-27)

Reassemble the IF audio module as follows:

a. Attach filter bracket assembly A3 (11) to module chassis (12) with two screws (10). Solder wire connections.

b. Position crystal filter FL1 (9) in module chassis (12), and attach terminal lugs (8A).

c. Attach crystal filter FL1 (9) to chassis (12) with four lockwashers (8) and screws (7).

d. Solder wire connections to microphone amplifier-mixer component board A2 (6).

e. (Applies to AN/PRC-74B only). Attach microphone amplifier-mixer component board A2 (6) to module chassis (12) with four screws (5).

e.1 (Applies to AN/PRC-74C only). Attach microphone amplifier-mixer component board A2 (6) to module chassis (12) with four flat washers (5A) and screws (5).

f. Place upper module cover (4) on module chassis (12).

g. Solder wire connections to IF audio amplifier component board A1 (3).

h. (Applies to AN/PRC-74B only). Attach IF audio amplifier component board A1 (3) to module chassis (12) with four screws (2).

h.1 (Applies to AN/PRC-74C only). Attach IF audio amplifier component board A1 (3) to module chassis (12) with four flat washers (2A) and screws (2).

i. Place lower module cover (1) on module chassis (12).

3-15. Frequency Generator Module Disassembly (fig. 3-28)

Disassemble the frequency generator module as follows:

a. (Applies to AN/PRC-74B only). Remove three screws (1) and remove cover (2).

a.1 (Applies to AN/PRC-74C only). Remove three screws (1), two spring clips (1A) and remove cover (2).

b. Unsolder wire connections to frequency divider component board (4).

c. Remove two screws (3), and remove frequency divider component board (4).

d. Unsolder wire connections to frequency standard (6).

e. Remove two screws (5), and remove frequency standard (6).

f. Unscrew wire connections to terminal board TB501 (10).

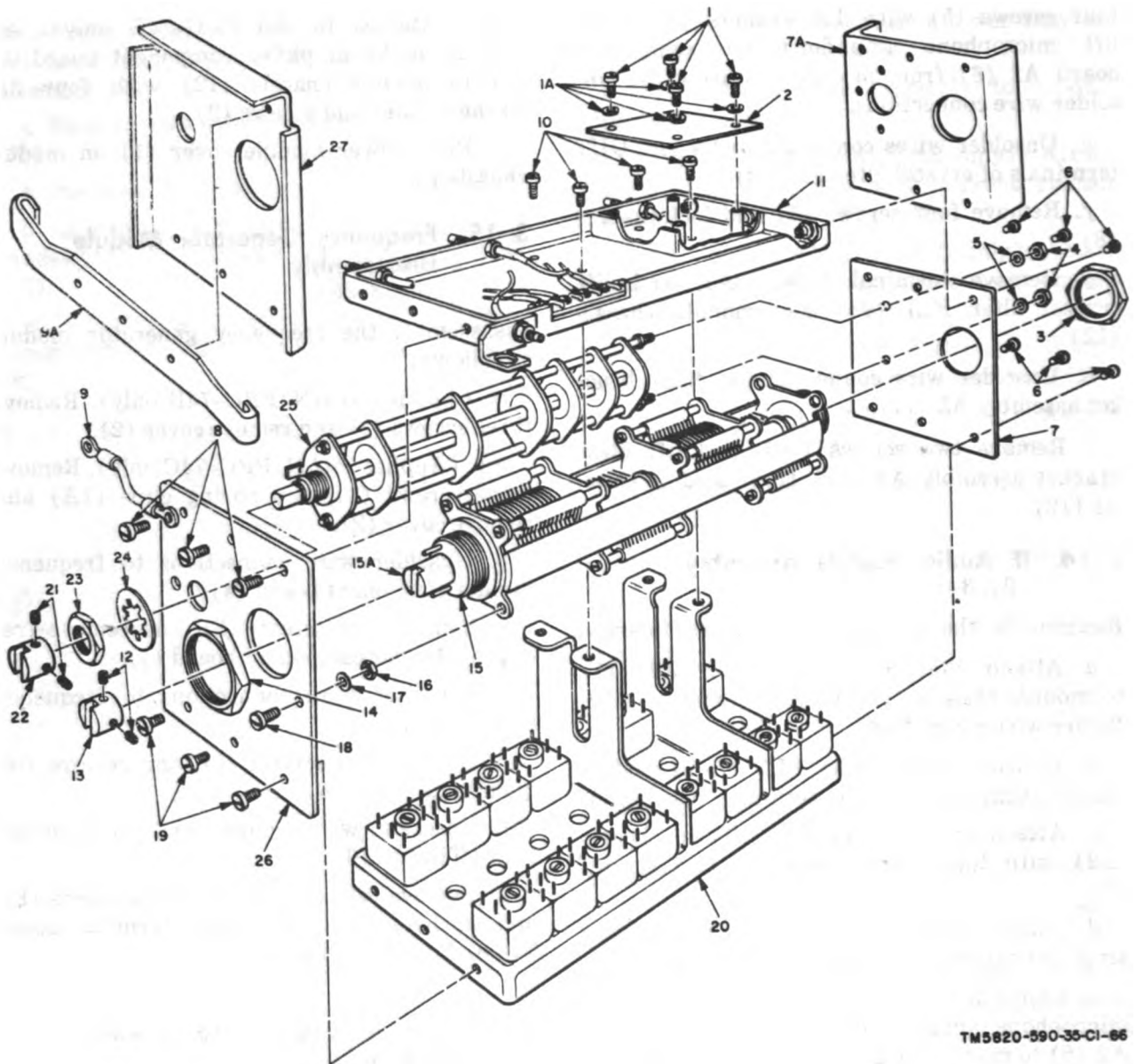
g. Remove two screws (7), lockwashers (8), and washers (9), and remove terminal board TB501 (10) from base (11).

3-16. Frequency Generator Module Assembly (fig. 3-28)

Reassemble the frequency generator module as follows:

a. Attach terminal board TB501 (10) to base (11) with two washers (9), lockwashers (8), and screws (7). Screw wire connections to TB501 (10).

b. Attach frequency standard (6) to base (11) with two screws (5).



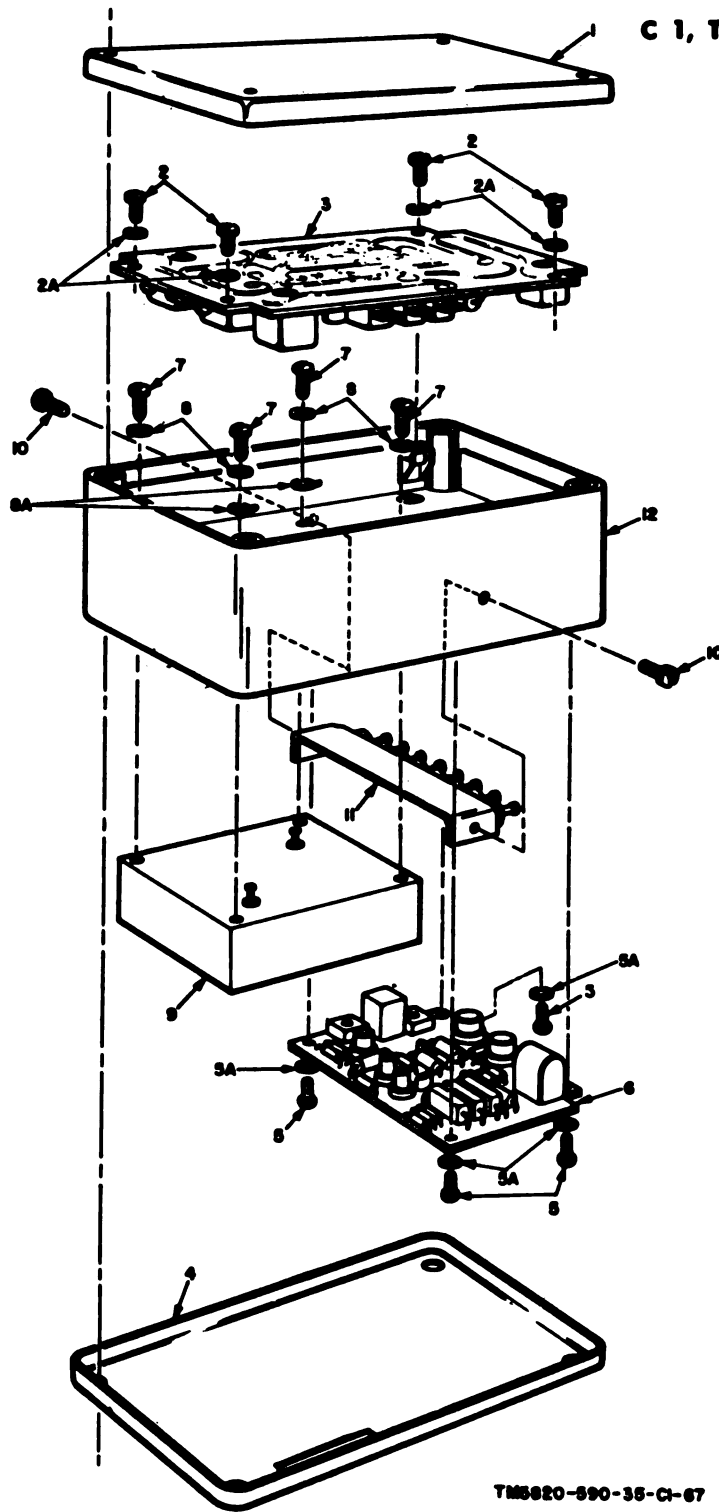
TM5820-590-35-C1-66

- 1 Screw
- 1A Lockwasher (AN/PRC-74C only)
- 2 Cover
- 3 Nut
- 4 Nut
- 5 Lockwasher
- 6 Screw
- 7 Rear chassis plate (AN/PRC-74B only)
- 7A Rear chassis plate (AN/PRC-74C only)
- 8 Screw

- 9 Ground strap (AN/PRC-74B only)
- 10 Screw
- 11 Lower tray assembly
- 12 Setscrew (AN/PRC-74B only)
- 13 Coupler (AN/PRC-74B only)
- 14 Nut
- 15 Capacitor C701
- 15A Fixed Coupler (AN/PRC-74C only)
- 16 Nut

- 17 Lockwasher
- 18 Screw
- 19 Screw
- 20 Upper tray assembly
- 21 Setscrew
- 22 Coupler
- 23 Nut
- 24 Lockwasher
- 25 Bandswitch S1
- 26 Front chassis plate (AN/PRC-74B only)
- 27 Front chassis plate (AN/PRC-74C only)

Figure 3-26. RF module, exploded view.



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- | | | |
|--|--|----------------------|
| 1 Lower module cover | 5 Screw | 8 Lockwasher |
| 2 Screw | 5A Flat washer (AN/PRC-74C only) | 8A Terminal lug |
| 2A Flat washer (AN/PRC-74C only) | 6 Microphone amplifier-mixer component board A2. | 9 Crystal filter FL1 |
| 3 IF audio amplifier component board A1. | 7 Screw | 10 Screw |
| 4 Upper module cover | | 11 Filter |
| | | 12 Module chassis |

Figure 3-27. IF Audio module, exploded view.

c. Solder wire connections to frequency standard (6).

d. Attach frequency divider component board assembly (4) to base (11) with two screws (3).

d.1 (Applies to AN/PRC-74C only). Attach two spring clips (1A) to cover (2). Align hole in spring clip with outside hole in cover.

e. Attach cover (2) to frequency generator with three screws (1).

3-17. Deleted

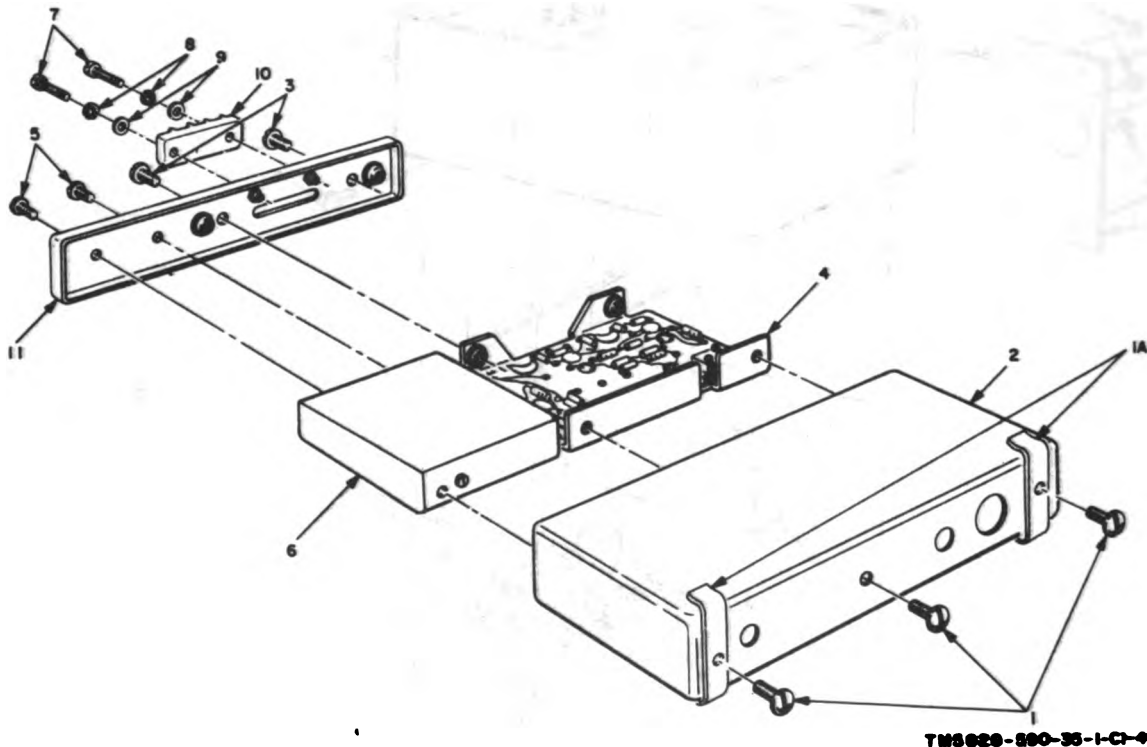
Figure 3-29. Deleted.

3-18. Deleted

3-19. Deleted

Figure 3-30. Deleted.

3-20. Deleted



- 1 Screw
- 1A Spring clip (AN/PRC-74C only)
- 2 Cover
- 3 Screw

- 4 Frequency divider component board.
- 5 Screw
- 6 Frequency standard
- 7 Screw

- 8 Lockwasher
- 9 Washer
- 10 Terminal board TB601
- 11 Base

Figure 3-28. Frequency generator, exploded view.

Section III. ALIGNMENT

3-21. Test Equipment and Special Items Required for Alignment

a. The test equipment required for aligning the radio set is listed in paragraph 3-1.

b. For the fabrication of miscellaneous items

needed for the alignment of the radio set, refer to paragraph 3-1.

3-22. Frequency Synthesizer Module Alignment Instructions

Failures in the frequency synthesizer module

3-32

usually can be isolated to a particular circuit area by comparing test point measurements to those given in figure 3-31. Alignment procedures for the individual circuits of the frequency synthesizer are outlined in a through f below.

CAUTION

To avoid breaking the tuning slug screw slots of transformers T601 through T604, T607 through T611, and T614 during alignment, apply a light coating of MEK (TT-M-261) to the screw threads and let sit from 2 to 3 minutes.

a. 1-Kc Oscillator Alignment.

(1) Connect oscilloscope AN/USM-140B in series with a 10-kilohm resistor to component board A5-TP11 of the frequency synthesizer (figs. 3-32 and 3-33).

(2) Connect the AN/USM-207 to the AN/USM-140B vertical signal output jack.

(3) Connect the power supply No. 1 positive lead to terminal 3 of TB601 (fig. 3-3), and the negative lead to terminal 4 of TB601.

(4) Connect the power supply No. 2 positive lead to terminal 2 of TB601, and the negative lead to terminal 4 of TB601.

(5) Connect a 100-ohm resistor between P601 and ground (fig. 3-33).

(6) Adjust power supply No. 1 to 9 volts, and power supply No. 2 to 12 volts.

(7) Adjust capacitor C617 (fig. 3-32) to obtain a frequency output of 6525.000 kc as measured on the frequency meter.

(8) Deenergize relay K2 by disconnecting the power supply No. 2 lead from terminal 2 of TB601, and place 1-kc oscillator

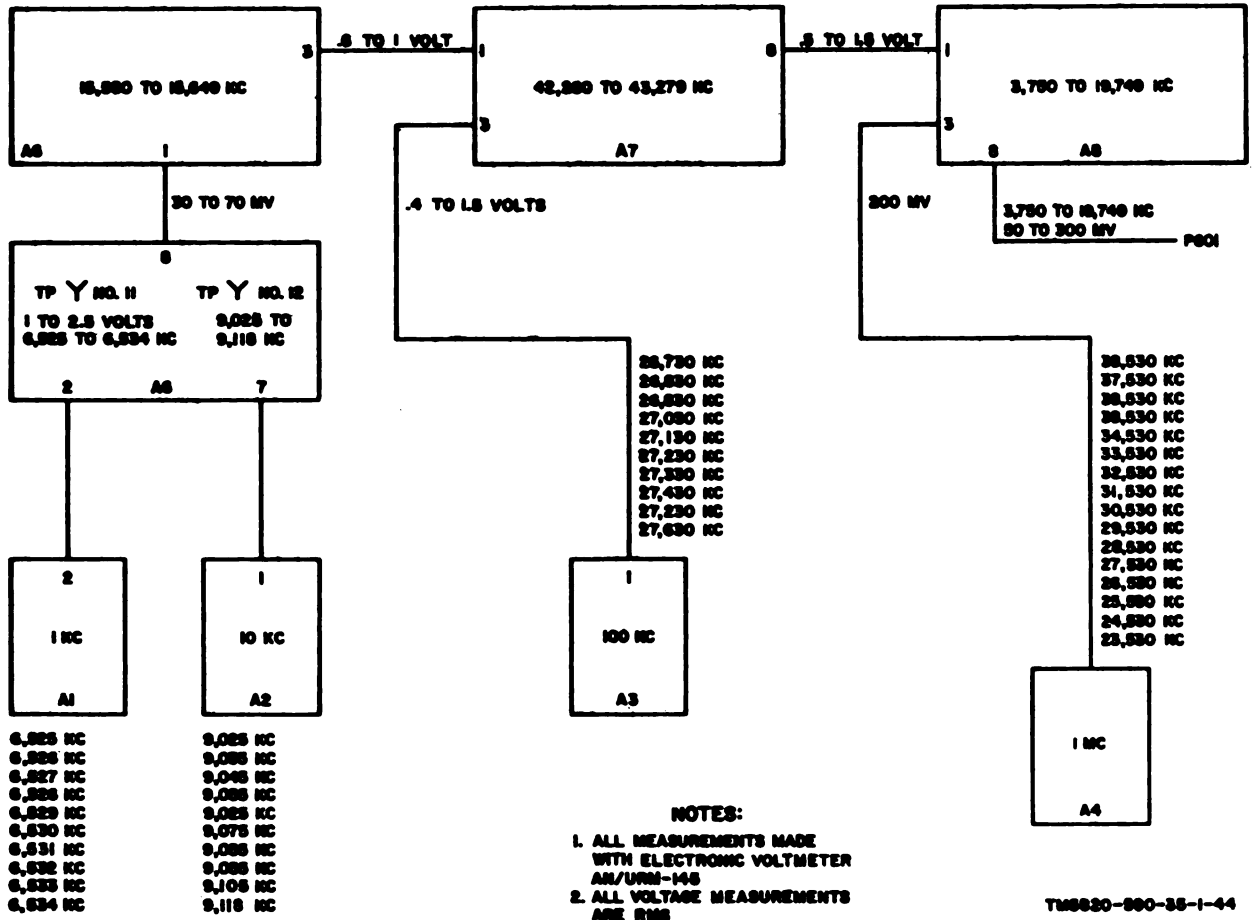


Figure 3-31. RF voltage levels in frequency synthesizer module.

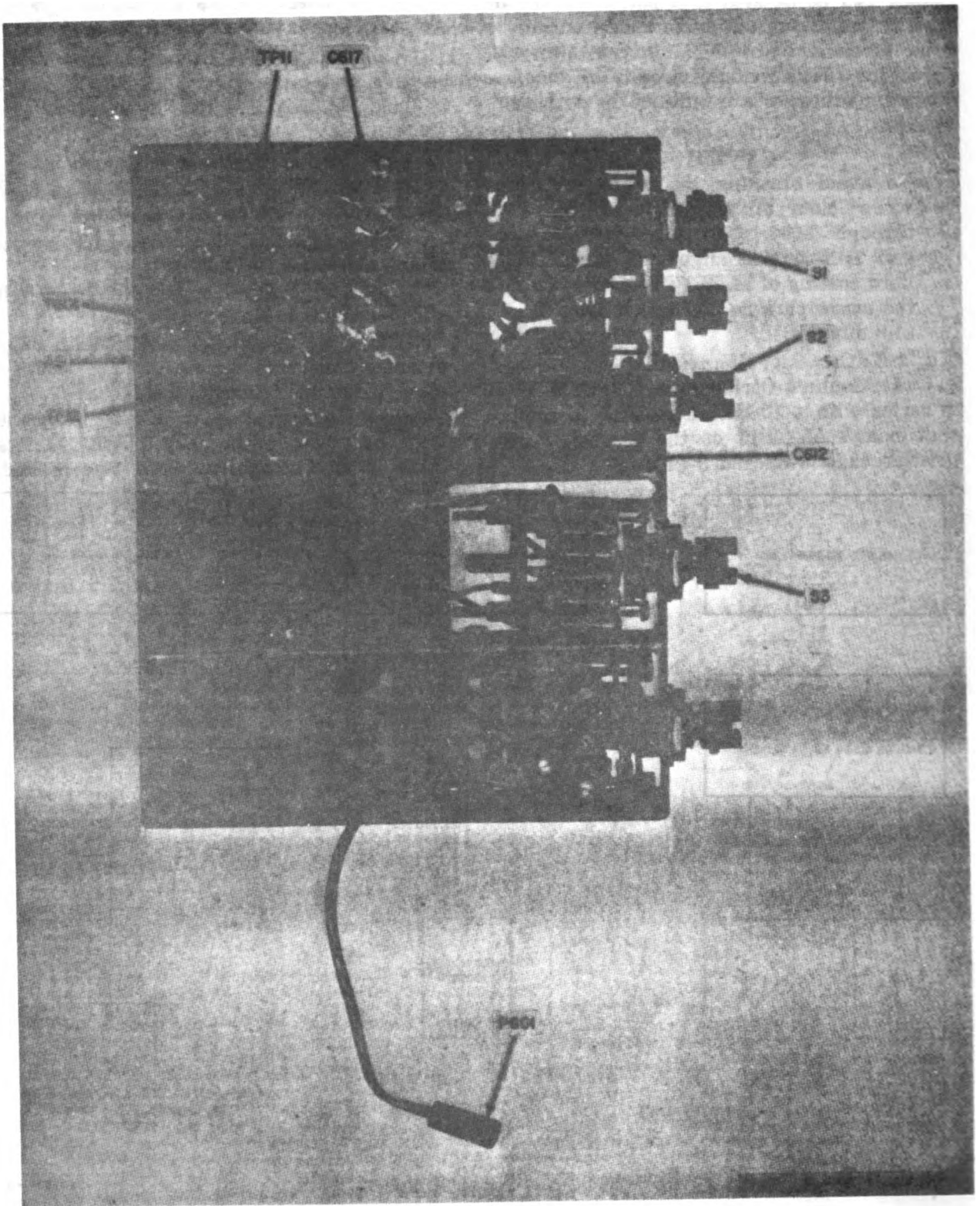


Figure 3-32. Frequency synthesizer module, top view.

switch S1 to the zero position (fully counter-clockwise).

(9) Rotate CLARIFY capacitor C601 (fig. 3-4) to minimum capacity (out of mesh). Note the frequency.

(10) Rotate C601 to maximum capacity (in mesh). Note the frequency.

(11) Adjust trimmer capacitor C602 (fig. 3-6) as necessary until the deviations measured in (9) and (10) above are approximately equal to the amounts above and below 6525.000 kc.

(12) Connect power supply No. 2 to terminal 1 of TB601 (fig. 3-3), and adjust it to +12 volts. Adjust capacitor C612 (fig. 3-32) to obtain a frequency output of 6525.00; kc as measured on the frequency meter.

(13) Leave the frequency synthesizer module in the transmit function, and place 1-kc oscillator switch S1 to position 1 (one position clockwise). Adjust trimmer capacitor C608 (fig. 3-6) to obtain a frequency output of 6526.000 kc as measured on the frequency meter.

(14) Repeat the procedure in (13) above for the remaining 1-kc switch positions and frequencies shown in the chart below.

1-kc switch S1 position	Adjust capacitor	Nominal frequency (kc)
0	C602	6,525.000
1	C603	6,526.000
2	C604	6,527.000
3	C605	6,528.000
4	C605	6,529.000
5	C607	6,530.000
6	C608	6,531.000
7	C609	6,532.000
8	C610	6,533.000
9	C611	6,534.000

(15) Disconnect power supply No. 2 from terminal 1 of TB601, and set CLARIFY capacitor C601 to minimum capacity (out of mesh).

(16) Rotate 1-kc oscillator switch S1 through all 10 positions, noting the frequency at each position. The frequency at each position should deviate not less than 200 cps from the nominal frequency at that position.

(17) Rotate C601 to maximum capacity, and repeat the procedure in (16) above.

(18) With Electronic Voltmeter AN/URM

-145 (or equivalent), check to see that the voltage at A5-TP11 is between 1.0 and 2.5 volts rms after alignment of the 1-kc oscillator.

b. 10-Kc Oscillator Alignment Check.

(1) Except for the AN/USM-140B frequency meter, connect the test equipment as shown for the 1-kc oscillator alignment (a above).

(2) Connect Oscilloscope AN/USM-140B (or equivalent) through a 10-kilohm resistor to component board A5-TP12 (fig. 3-32).

(3) Connect the AN/USM-207 (or equivalent) to the vertical output jack of the AN/USM-140B.

(4) Rotate calibrate control C628 (fig. 3-4) to minimum capacity (out of mesh).

(5) Rotate 10-kc oscillator switch S2 (fig. 3-32) through all 10 positions. The frequency at each position should deviate not less than 1.25 kc from the nominal frequency as shown in the chart below.

10-kc switch S2 position	Nominal frequency (kc)
0	9025.000
1	9035.000
2	9045.000
3	9055.000
4	9045.000
5	9075.000
6	9085.000
7	9085.000
8	9105.000
9	9115.000

(6) Rotate C628 (fig. 3-4) to maximum capacity (in mesh), and repeat the procedures in (5) above.

c. 10-kc Bandpass Alignment Check.

(1) Connect Electronic Voltmeter AN/URM-145 (or equivalent) to pin 3 of component board A6 (fig. 3-3).

(2) Disconnect power supply No. 2.

(3) Set 1-kc and 10-kc switches S1 and S2 (fig. 3-32) to position 1 (6,526 kc and 9,085 kc, respectively).

(4) Adjust transformers T603 and T604 (fig. 3-3) for a maximum indication on the AN/URM-145.

(5) Disconnect the AN/URM-145 from

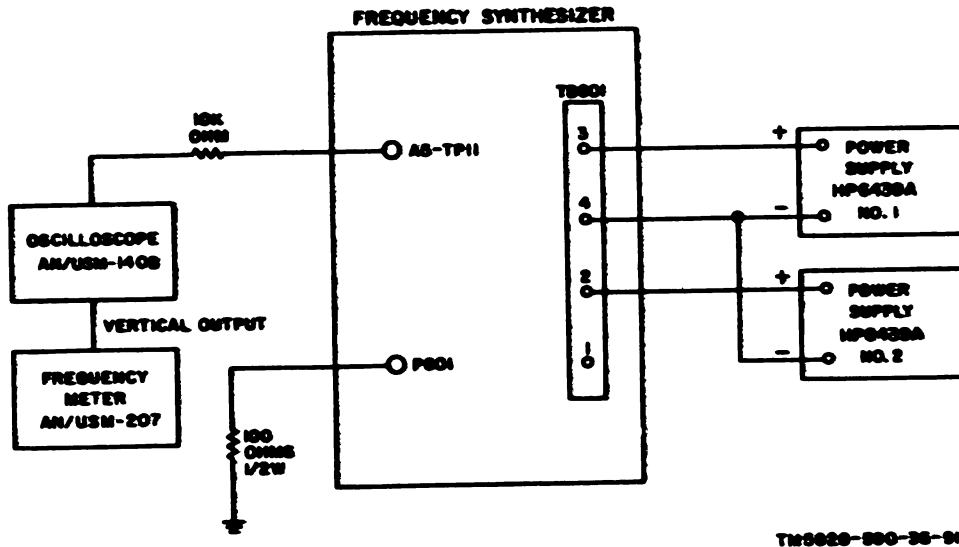


Figure 3-32. Frequency synthesizer module, test setup.

pin 3 of component board A6, and connect to the base of amplifier Q4.

(6) Adjust transformers T601, on component board A5 (fig. 3-32), and T602, on component board A6 (fig. 3-3), for a maximum indication on the AN/URM-145.

d. 100-Kc Oscillator Alignment.

(1) Connect Oscilloscope AN/USM-140B (or equivalent) through a 100-ohm, 1/2-watt resistor to pin 3 of component board A7.

(2) Connect Frequency Meter AN/USM-207 to the vertical output jack of the AN/USM-140B.

(3) Rotate 100-kc oscillator switch S3 (fig. 3-32) to position 4.

(4) Adjust transformer T611 (fig. 3-6), for a maximum indication on the AN/URM-145. The output frequency should be $27,130 \pm 1$ kc, and the AN/USM-140B should display a clean sine wave without modulation, as T611 is tuned to the maximum voltage position.

(5) While observing the AN/USM-140B, rotate 100-kc switch S3 (fig. 3-32) through all 10 positions as shown in the chart in (7) above. The output should not show modulation at any of the 10 positions.

(6) Check to see that the frequency output is within ± 1 kc of the nominal value for

each of the 10 positions. Adjust T611 as required.

(7) With Electronic Voltmeter AN/URM-145, check to see that the output voltage is 0.4 to 1.5 volt rms.

100-kc switch S3 positions	Nominal frequency (kc)
0	26730
1	26830
2	26930
3	27030
4	27130
5	27030
6	27030
7	27430
8	27030
9	27030

e. 1-Mc Oscillator Alignment.

(1) Connect Frequency Meter AN/USM-207 (or equivalent) through a 500-ohm resistor to pin 3 of component board A8 (fig. 3-3).

(2) Monitor the output at pin 3 of A8 with Electronic Voltmeter AN/URM-145 (or equivalent).

(3) Rotate MC (MHz) switch S4 (fig. 3-32) fully counterclockwise to position 2.

(4) Adjust trimmer capacitor C667 counterclockwise to minimum capacity (screw flush with top of capacitor), and then rotate it clockwise for three turns.

(5) While observing the frequency meter, adjust transformer T614 (fig. 3-6) until the output frequency is within ± 50 cps of the nominal frequency (38,530 kc) as listed in the chart below.

MC (MHz) switch S4 position	Adjust capacitor	Nominal frequency (kc)
2	C667	38530
3	C668	37530
4	C668	36530
5	C670	35530
6	C672	34530
7	C674	33530
8	C676	32530
9	C678	31530
10	C680	30530
11	C682	29530
12	C694	29530
13	C696	27530
14	C697	29530
15	C699	25530
16	C6101	24530
17	C6108	23530

(6) Rotate MC (MHz) switch S4 (fig. 3-32) clockwise to position 3.

(7) Adjust trimmer capacitor C668 (fig. 3-6) until the output frequency is within ± 50 cps of the nominal frequency (37,530 kc) as listed in the chart ((5) above).

(8) Repeat the procedure in (7) above for all the remaining positions and capacitors as shown in the chart ((5) above).

NOTE

If there is not adequate trimmer capacitor range on any 1 of the 16 positions, readjust collector transformer T614 while at that position. Readjusting T614 requires readjusting the trimmer capacitors listed in the chart in (5) above.

(9) Rotate MC (MHz) switch S4 through all 16 positions. The output voltage at all points should be 100 to 400 millivolts. The frequency at each position should be within ± 50 cps of the nominal value at that position.

f. 100-Kc Bandpass Alignment.

(1) Connect Frequency Meter AN/USM-207 (or equivalent) through a 500-ohm resistor to pin 5 of component board A7 (fig. 3-3).

(2) Monitor the output at pin 5 of A7

with Electronic Voltmeter AN/URM-145 (or equivalent)...

(3) Set clarify capacitor C601 (fig. 3-4) and calibrate capacitor C628 to approximately midposition (half-open).

(4) Set all frequency controls to the fourth position from fully counterclockwise.

(5) Connect a shunt load resistor (B, fig. 3-1) from pin 9 of A7 (fig. 3-3) to ground.

(6) Adjust T608 (fig. 3-3) for a maximum deflection of the AN/URM-145.

(7) Disconnect the shunt load resistor.

(8) Repeat the procedures given in (4) through (6) above for the remaining transformers as shown in the chart below.

Transformer being loaded	Shunt load resistor connection	Adjust transformer
T607	A7, pin 9	T608
T608	A7, pin 10	T607
T609	A7, pin 11	T610
T610	A7, pin 12	T609

(9) Disconnect the shunt load resistor from pin 12 of A7.

(10) Check the voltmeter for an output of 0.5 to 1.5 volt rms.

(11) Check the frequency meter for an output of 42,725 ± 1 kc. Repeat the procedures given in (5) through (10) above if the desired output frequency is not obtained.

(12) Rotate 100-kc oscillator switch S3 (fig. 3-32) through all 10 positions and check to see that the AN/URM-145 indication does not vary more than 2.5 db at any position. If this limit is exceeded, repeat the alignment procedure.

NOTE

Output circuit A8 has no adjustments. The two frequencies are received in the mixer and mixed down to the desired output frequency. Fixed filter FL1 has a bandpass response flat within 3 db from 3,750 to 19,749 kc.

3-23. RF Module Alignment

CAUTION

To avoid breaking the tuning slug screw slots of transformers T701 through T717 during alignment, apply a light coating of MEK (TT-M-

261) to the screw threads and let sit from 2 to 3 minutes.

Align the RF module as follows:

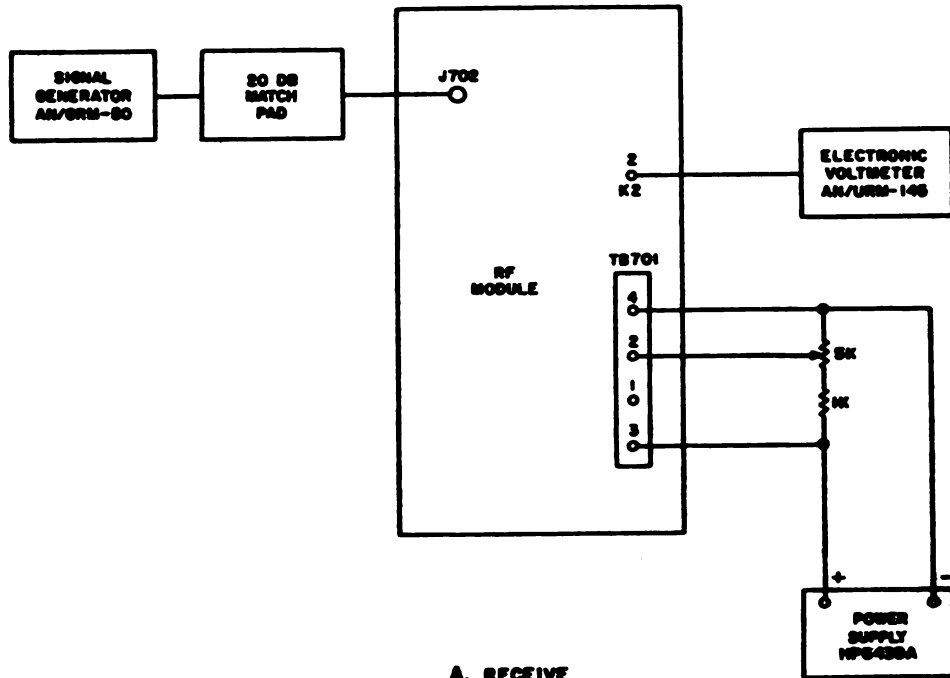
a. RF Module Amplifier.

(1) Connect Signal Generator AN/GRM-50 to J702 through 20-db match pad (figs 3-1 and 3-34).

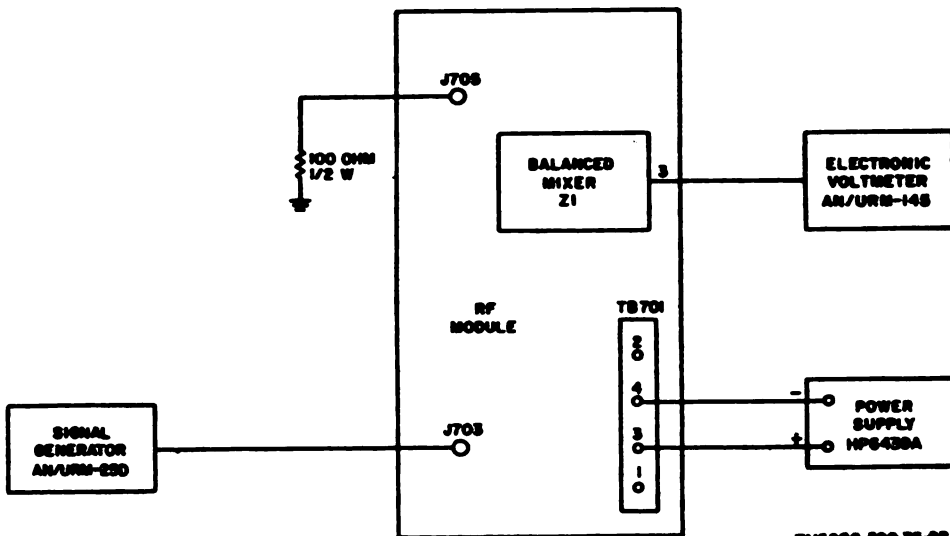
(2) Connect a 5-kilohm potentiometer and 1-kilohm resistor across the output of Power Supply HP6439A.

(3) Connect the positive lead of the power supply to pin 3 of TB701, and the negative lead to pin 4 of TB701.

(4) Connect the arm of the potentiometer to pin 2 of TB701.



A. RECEIVE



B. TRANSMIT

TM 11-5820-590-35-02

Figure 3-34. RF module, alignment test setup.

(5) Adjust the output of the power supply to 9 volts.

(6) Connect the AN/URM-145 to pin 2 of K2 (fig. 3-9).

(7) Set C701 to the clockwise stop, maximum capacity (plates meshed).

(8) Set switch S1 to band 1 (completely counterclockwise).

(9) Set the AN/GRM-50 for an output of 2.001 mc \pm 1 percent.

(10) Adjust the AN/GRM-50 until an output is observed at pin 2 of relay K2.

(11) Adjust the 5-kilohm potentiometer for a maximum output as indicated on the AN/URM-145, reducing the AN/GRM-50 output level below 100 millivolts rms.

(12) Tune transformers T701, T705, and T709 (figs 3-35 and 3-36) for a maximum indication on the AN/URM-145. As peaking proceeds, reduce the AN/GRM-50 level as necessary to keep the output level below 100 mv.

(13) Rotate capacitor C701 counterclockwise to minimum capacity (plates out of mesh).

(14) Set the AN/GRM-50 to 3.001 mc \pm 1 percent.

(15) Tune capacitors C703, C710, and C720 for a maximum indication on the AN/URM-145. Adjust the AN/GRM-50 as required to keep the output below 100 mv.

(16) Repeat the procedures in (7) through (15) above until the last adjustment gives

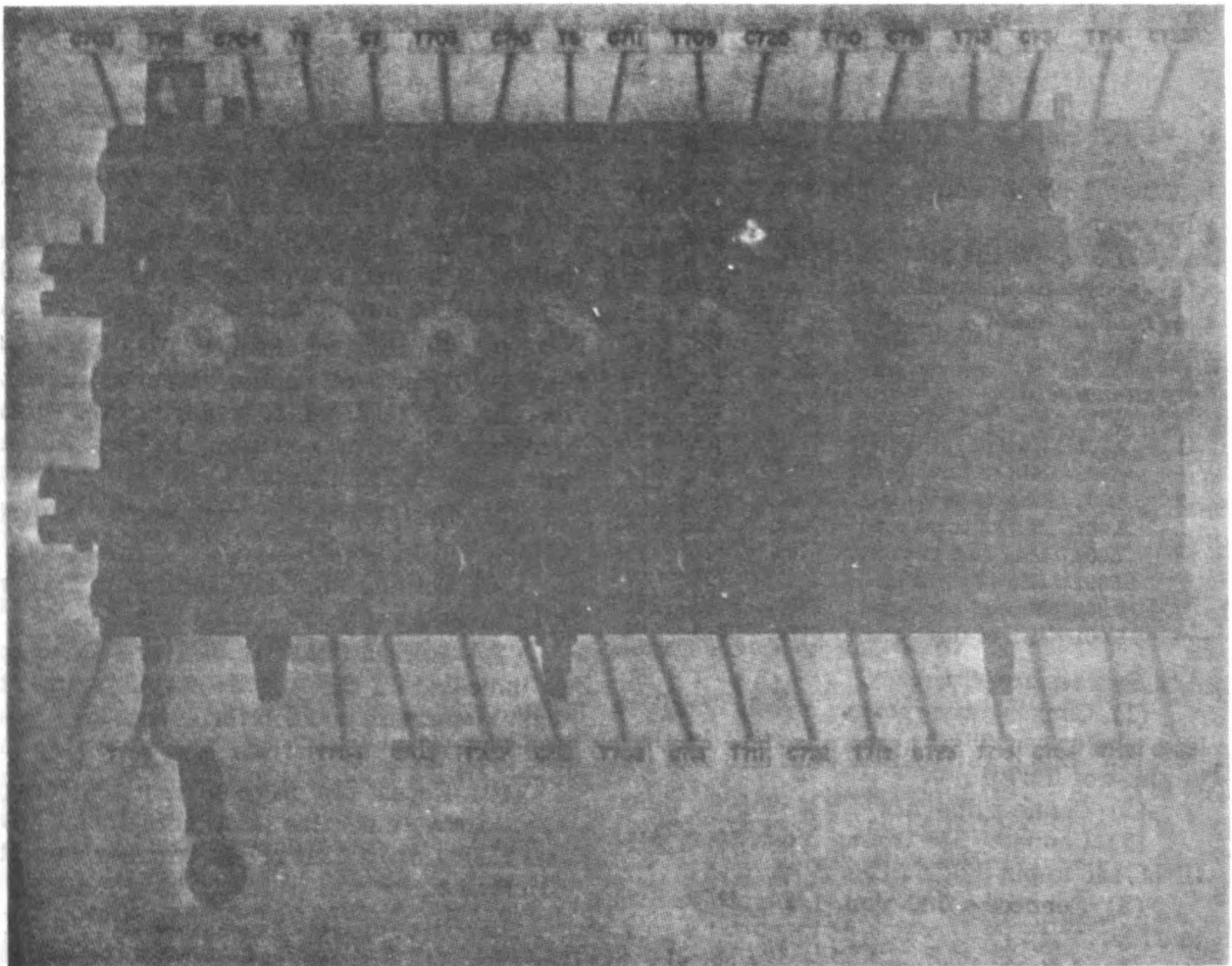


Figure 3-35. RF module, bottom view.

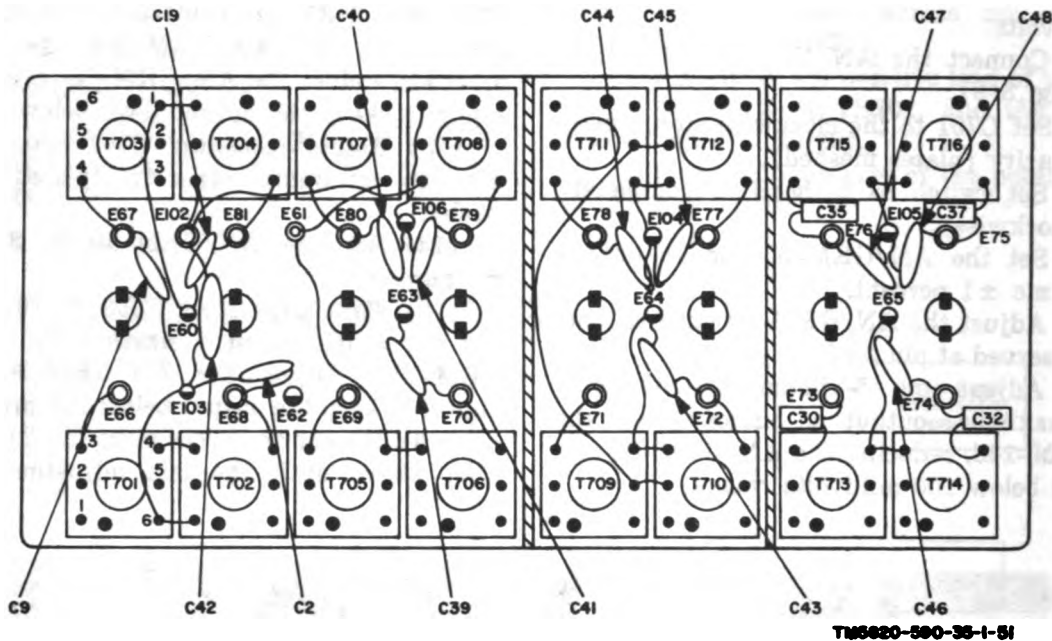


Figure 3-36. RF module, top view.

less than 1 db of change per trimmer capacitor adjustment.

(17) Repeat the procedures in (7) through (16) above to align the remaining bands of the radiofrequency circuit as shown in the chart below.

Band	AN/URM-50 (mc)	C701 setting	Type
1	2.001	Max (3 turns cw).	T701, T705, T709
1	4.001	Min (3 turns ccw).	C703, C710, C720
2	4.001	Max (3 turns cw).	T702, T706, T710
2	7.001	Min (3 turns ccw).	C704, C711, C721
3	7.001	Max (3 turns cw).	T703, T707, T711
3	12.001	Min (3 turns ccw).	C705, C712, C722
4	12.001	Max (3 turns cw).	T704, T708, T712
4	18.001	Min (3 turns ccw).	C706, C713, C723

b. Synthesizer Amplifier.

(1) Connect the power supply positive lead to pin 3 of TB701, and the negative lead to pin 4 of TB701.

(2) Connect the AN/URM-25D to J703.

(3) Connect Electronic Voltmeter AN/URM-145 to pin 3 of Z1 (fig. 3-9).

(4) Connect a 100-ohm, 1/2-watt resistor to J705.

(5) Adjust the power supply output to 9 volts.

(6) Set C701 to maximum capacity

(plates meshed), and S1 fully counterclockwise (band 1).

(7) Set the signal generator for an output of 3.75 mc \pm 1 percent, and adjust the level until an output is observed at pin 3 of A1.

(8) Adjust transformer T713 (figs 3-35 and 3-36) for a maximum output as indicated on the AN/URM-145, reducing the signal generator level as necessary to keep the output below 100 millivolts.

(9) Set C701 to minimum capacity (plates out of mesh).

(10) Set the signal generator to 5.75 mc \pm 1 percent.

(11) Adjust C731 for a maximum output as indicated on the AN/URM-145; adjust the signal generator to keep the output level below 100 millivolts as required.

(12) Repeat the procedures in (8) through (11) above until the last adjustment gives less than 1 db of change per trimmer capacitor adjustment.

(13) Repeat the procedures in (6) through (12) above to align the remaining bands in the synthesizer circuit as shown in the chart below.

21 setting band	Synth AN/URM-25D	PEAK NOISE control C701 setting	Tune
1	3.75	Max (3 turns cw)	T713
1	5.75	Min (3 turns ccw)	C731
2	5.75	Max (3 turns cw)	T714
2	8.75	Min (3 turns ccw)	C733
3	8.75	Max (3 turns cw)	T715
3	13.75	Min (3 turns ccw)	C734
4	13.75	Max (3 turns cw)	T716
4	19.75	Min (3 turns ccw)	C736

(14) Connect the AN/URM-145 across the 100-ohm resistor at J705.

(15) Connect the signal generator to pin 5 of Z1.

(16) Set the signal generator to 1.75 mc, and adjust the signal generator level until an output is observed on the AN/URM-145.

(17) Adjust T717 (fig. 3-9) for maximum output as indicated on the AN/URM-145.

3-24. IF Audio Module Alignment

CAUTION

To avoid breaking the tuning slug screw slots of transformers T401 through T404 during alignment, apply a light coating of MEK (TT-M-261) to the screw threads and let sit from 2 to 3 minutes.

a. Receive Mode Alignment. With the test equipment connected as shown in A (RECEIVE), figure 3-12, perform the following alignment:

(1) Set power supply No. 2 to OFF Set power supply No. 1 to 9 volts at 50 ma.

(2) Set the AN/GRM-50 to 1.749 mc at 30 microvolts rms.

(3) Set the AN/URM-25D to 1.750 mc at 1.0 volt rms.

(4) Set potentiometer R415 (fig. 3-37) to its maximum clockwise position.

(5) Adjust the level and frequency of the AN/GRM-50 (fig. 3-12) to obtain 1.0 volt rms at pin 1 of TB202 as indicated on Multimeter ME-26B/U.

(6) Adjust the 2-kilohm potentiometer for a maximum output at pin 1 of TB202.

(7) Adjust transformers T401, T402, T403, and T404 (fig. 3-37) for a maximum output at pin 1 of TB202. During the adjustments, reduce the level of the AN/GRM-50

to keep the output at pin 1 of TB202 below 1.4 volt rms.

(8) Repeat the procedures in (7) above until no further increase in the output is noted.

(9) Adjust the AN/GRM-50 for a frequency output at pin 1 of TB202 of 1 kc as indicated on the AN/USM-207.

(10) Adjust the AN/GRM-50 output level to 30 microvolts. Set potentiometer R415 for an output of 1.0 volt rms at pin 1 of TB202.

b. Transmit Mode Alignment. With the test equipment connected as shown in B (TRANSMIT), figure 3-12, perform the following alignment:

(1) Connect a clip lead from pin 3 of TB202 to pin 4. Adjust power supply No. 1 to 9 volts at 50 ma. Adjust power supply No. 2 to 12 volts at 500 ma. Adjust the signal generator to 1.750 mc at 1.0 volt rms.

(2) Adjust potentiometer R434 (fig. 3-13) for a minimum output at J401 as indicated on Electronic Voltmeter AN/URM-145 (fig. 3-12).

(3) Remove the clip lead from pin 3 and pin 4 of TB202. Set the AN/URM-127 to 1 kc at 1.2 millivolts rms.

(4) Adjust potentiometer R432 (fig. 3-13) until the output at J401 is 28 ± 0.5 millivolts rms as indicated on the AN/URM-145.

3-25. Frequency Generator Module Alignment

To align the 10-kc calibrate pulse output, connect the test equipment as shown in figure 3-14 and proceed as follows:

a. Connect the oscilloscope to the emitter of transistor Q12 (fig. 3-38).

b. Connect the AN/USM-207 to the vertical output of the AN/USM-140B.

c. Adjust R515 until an output of 250 kc ± 100 cps is observed on the AN/USM-207. Center the R515 adjustment between the two extremes within which locking to 250 kc occurs.

d. With a clip lead, short circuit the base of Q12 to ground.

e. Connect the AN/USM-140B probe to the

emitter of Q13, and adjust R520 until an output of 46 kc \pm 100 cps is observed on the frequency meter.

f. Remove the clip lead from Q12, and short circuit the base of Q13 to ground.

g. Connect the AN/USM-140B probe to the emitter of Q14, and adjust R525 until an output of 9.6 kc \pm 100 cps is observed on the frequency meter.

h. Connect the clip lead from Q13.

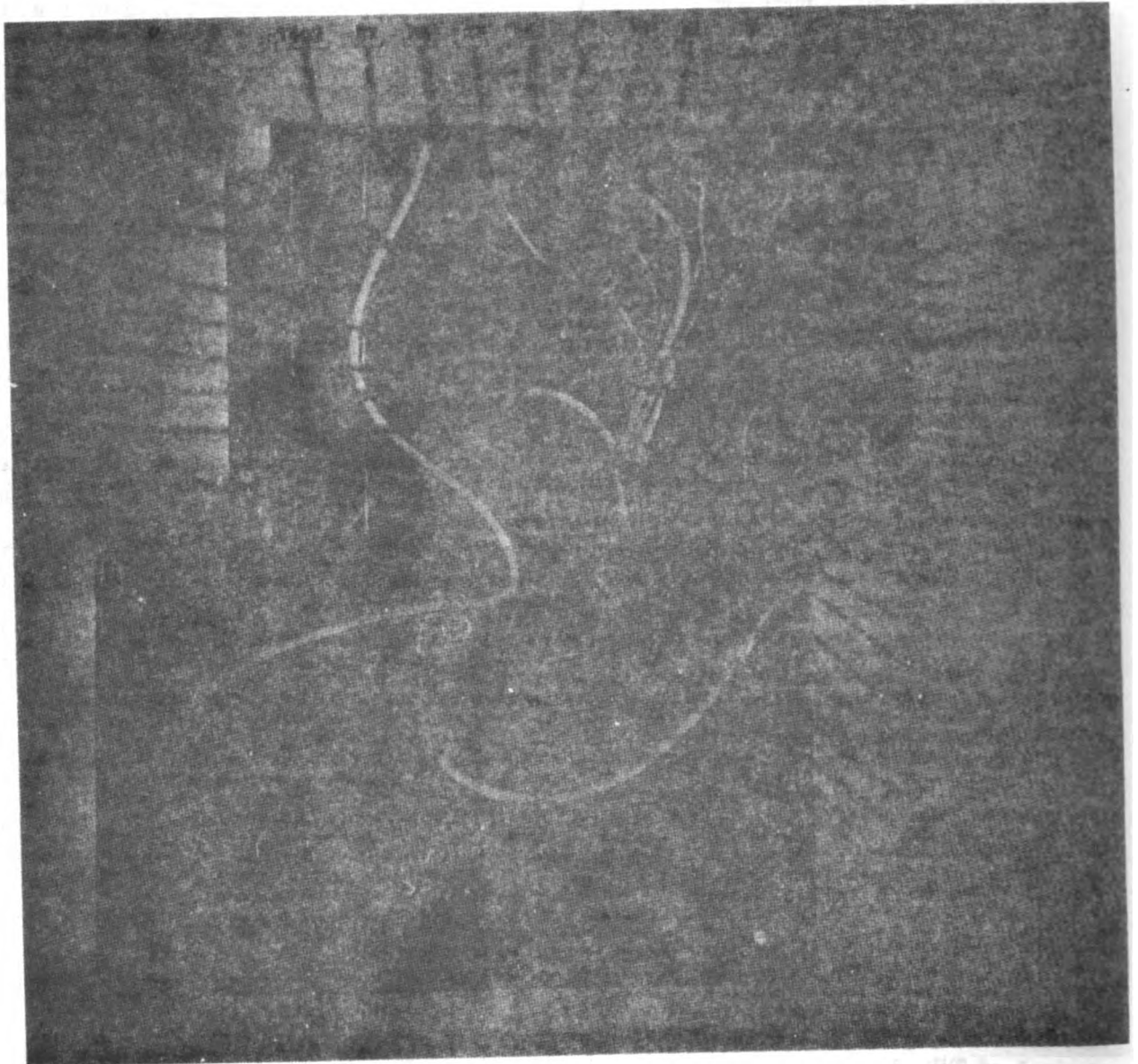


Figure 3-37①. IF Audio module, rear view, component boards removed (part 1 of 2).

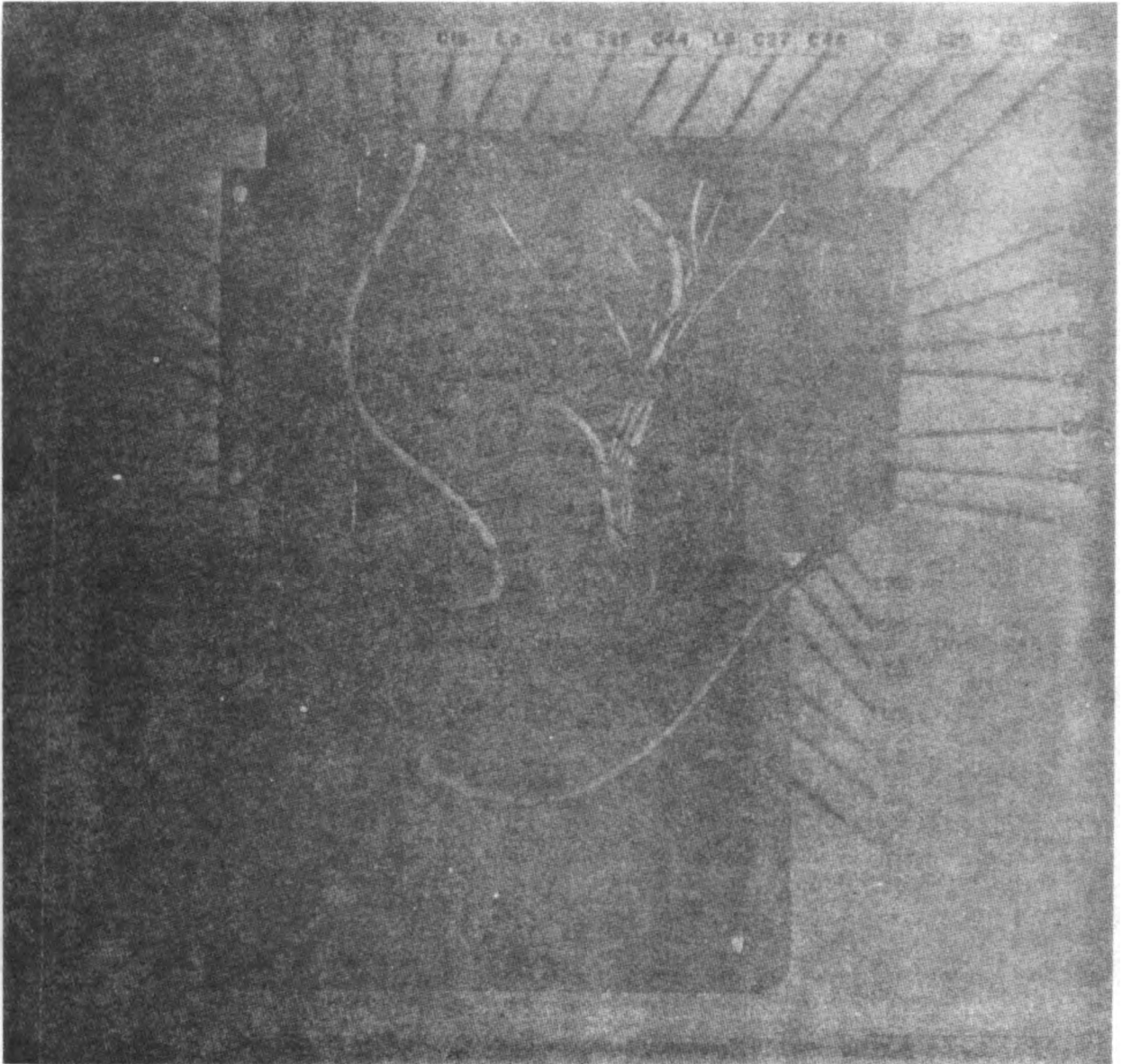


Figure 3-37Ⓞ. IF Audio module, rear view, component boards removed (part 2 of 2).

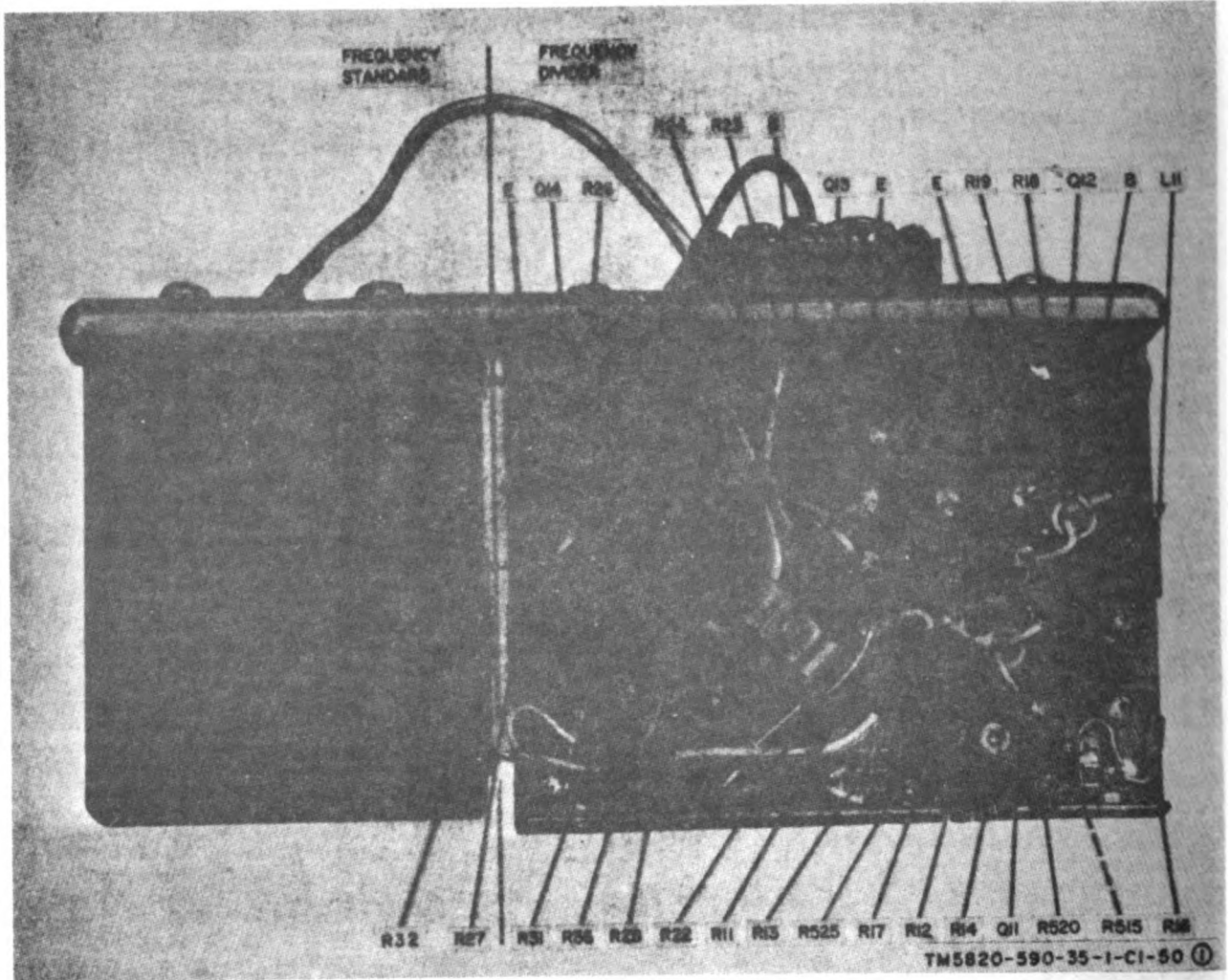


Figure 2-38①. Frequency generator module, front view (part 1 of 2).

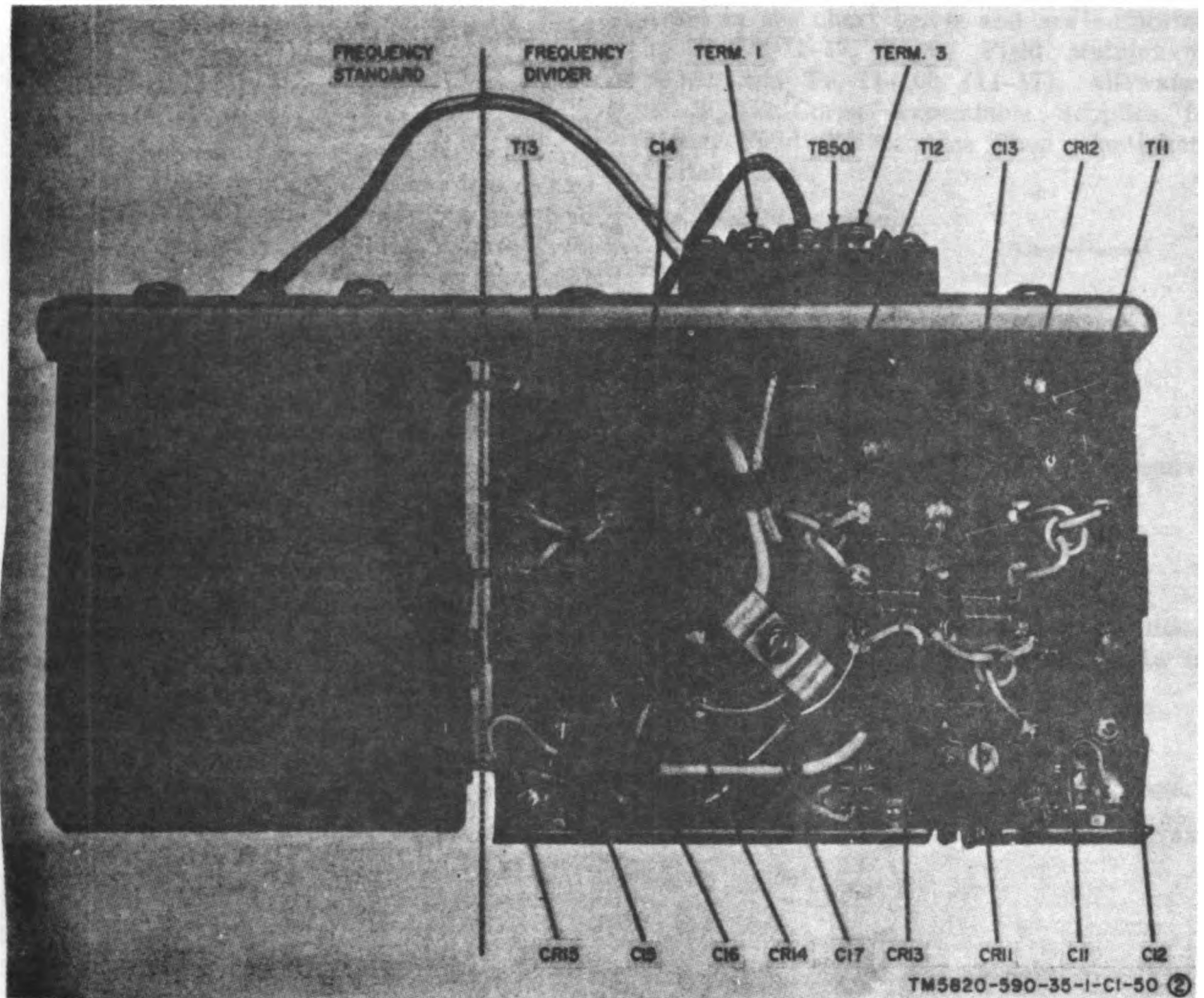


Figure 3-33②. Frequency generator module, front view (part 2 of 2).

CHAPTER 4

GENERAL SUPPORT TESTING PROCEDURES

4-1. General

a. Testing procedures are prepared for use by Signal Field Maintenance Shops and Signal Service Organizations responsible for general support maintenance of electronic equipment to determine the acceptability of repaired electronic equipment. These procedures set forth specific requirements that repaired electronic equipment *must* meet before it is returned to the using organization. The testing procedures may also be used as a guide for the testing of equipment that has been repaired at direct support if the proper tools and test equipment are available. A summary of the performance standards is given in paragraph 4-7.

b. Comply with the instructions preceding the body of each chart before proceeding to the chart. Perform each test in sequence. *Do not vary the sequence.* For each step, perform all the actions required in the *Control settings* columns; then perform each specific test procedure, and verify it against its performance standard.

4-2. Test Equipment

All test equipments required to perform the

testing procedures given in this chapter are listed in the chart below and are authorized under TA-11-17, Signal Field Maintenance Shops, and TA-11-100 (11-17), Allowances of Signal Corps Expendable Supplies for Signal Field Maintenance Shop, Continental United States.

a. Test Equipment.

<i>Nomenclature</i>	<i>Technical manual</i>
Signal Generator AN/GRM-50	TM 11-6625-573-15
Electronic Voltmeter AN/URM-145	TM 11-6625-524-14
Multimeter ME-26B/U	TM 11-6625-200-12

b. Other Equipment.

- (1) Power Supply HP6489A (or equivalent).
- (2) Dummy load, 50-ohm, 20-watt.
- (3) Probe T-Connector PH11042A.

c. *Fabricated Equipment.* A 20-db match pad is required. Refer to paragraph 3-1a for details.

4-3. Physical Tests and Inspection

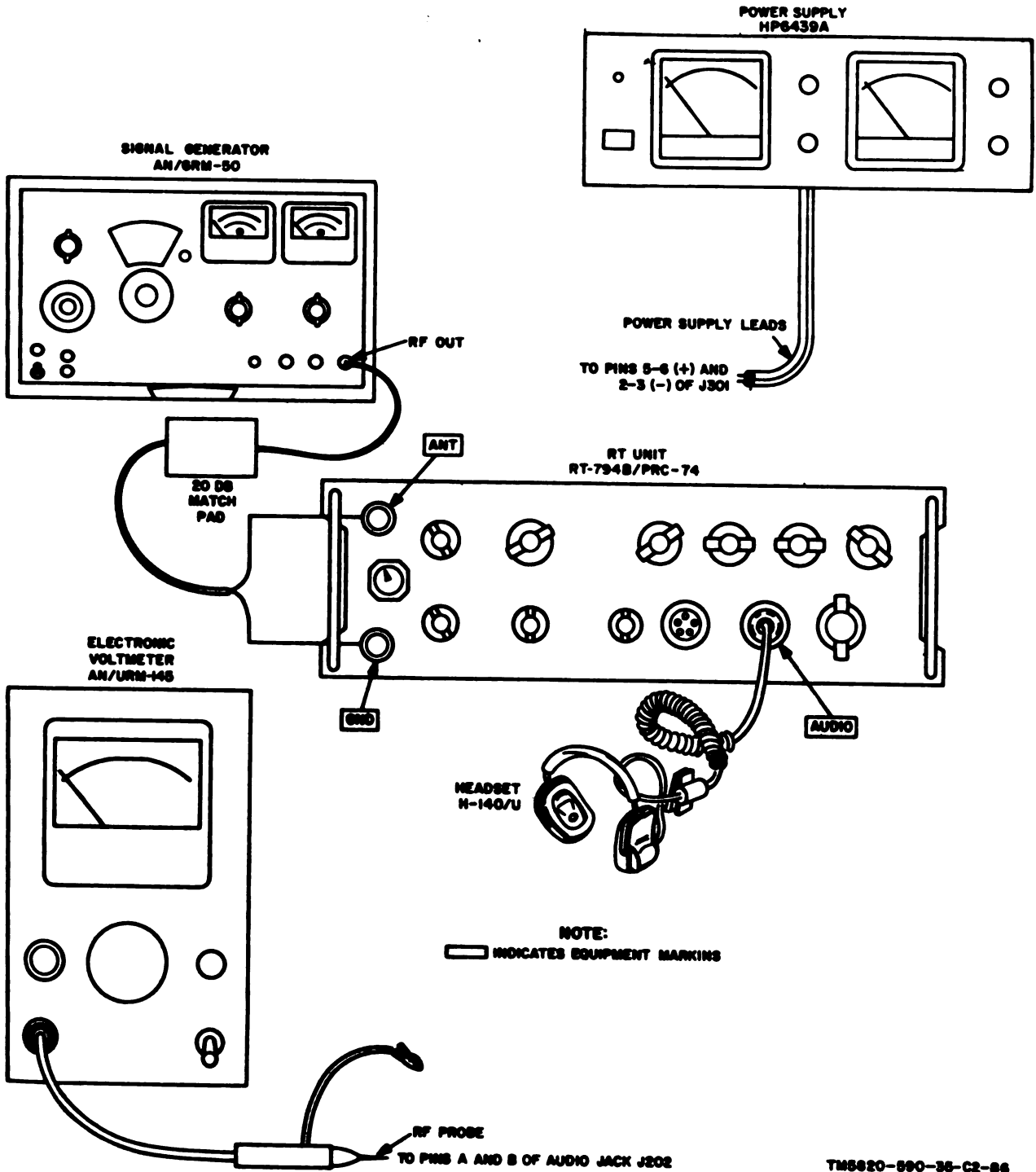
- a. *Test Equipment and Materials.* None.
- b. *Test Connections and Conditions.* None.

c. Procedure.

Step No.	Test equipment	Central settings	Equipment under test	Test procedure	Performance standard
1	None		Radio Set AN/PRC-7AB	Inspect all controls and mechanical parts for loose or missing screws or nuts.	c. Screw and nuts will be tight; none missing.
2	None		Controls may be in any position	Inspect connectors for looseness and damage.	b. No looseness or damage evident.
			Controls may be in any position	Turn OFF-ON-TUNE switch to ON, and then to TUNE.	a. Switch operates freely to ON; spring-return from TUNE.
				Turn CLARIFY-PUSH TO CALIBRATE switch throughout switch range. Push in and turn switch throughout switch range.	b. Switch operates freely throughout switch ranges; spring-return from PUSH to CALIBRATE.
				Turn ANT TUNE, ANT LOAD, and PEAK NOISE controls 360°.	c. Controls turn freely without binding or excessive looseness.
				Turn R.F. GAIN MC (MHz), 100 MC (KHz), 1000C (KHz), and 10C (MHz) controls throughout their limits.	d. Controls turn freely without binding or excessive looseness.
				Turn the power supply METER switch to CHARGE AMPS, to BATTERY VOLTS, and then to RADIO VOLTS.	e. Switch operates freely to each position without binding or excessive looseness.
				Turn CHARGING CURRENT control throughout its limits.	f. Control turns without binding or excessive looseness.
				Operate POWER ON and CHARGER ON switches.	g. Switches operate freely without binding or excessive looseness.

3 N/A N/A
 Inspect equipment case for damage or missing parts and for condition of finish and panel lettering.
 No damage or missing parts evident. External surfaces intended to be painted do not show bare metal. Panel lettering is legible.

Note. Touchup painting is recommended instead of repainting whenever practicable. Surfaces and components will not be painted or polished with abrasives.



TM5820-590-35-C2-86

Figure 4-1. Radio set receive test.

4-4. Radio Set, Receive Test

a. Test Equipment and Materials.

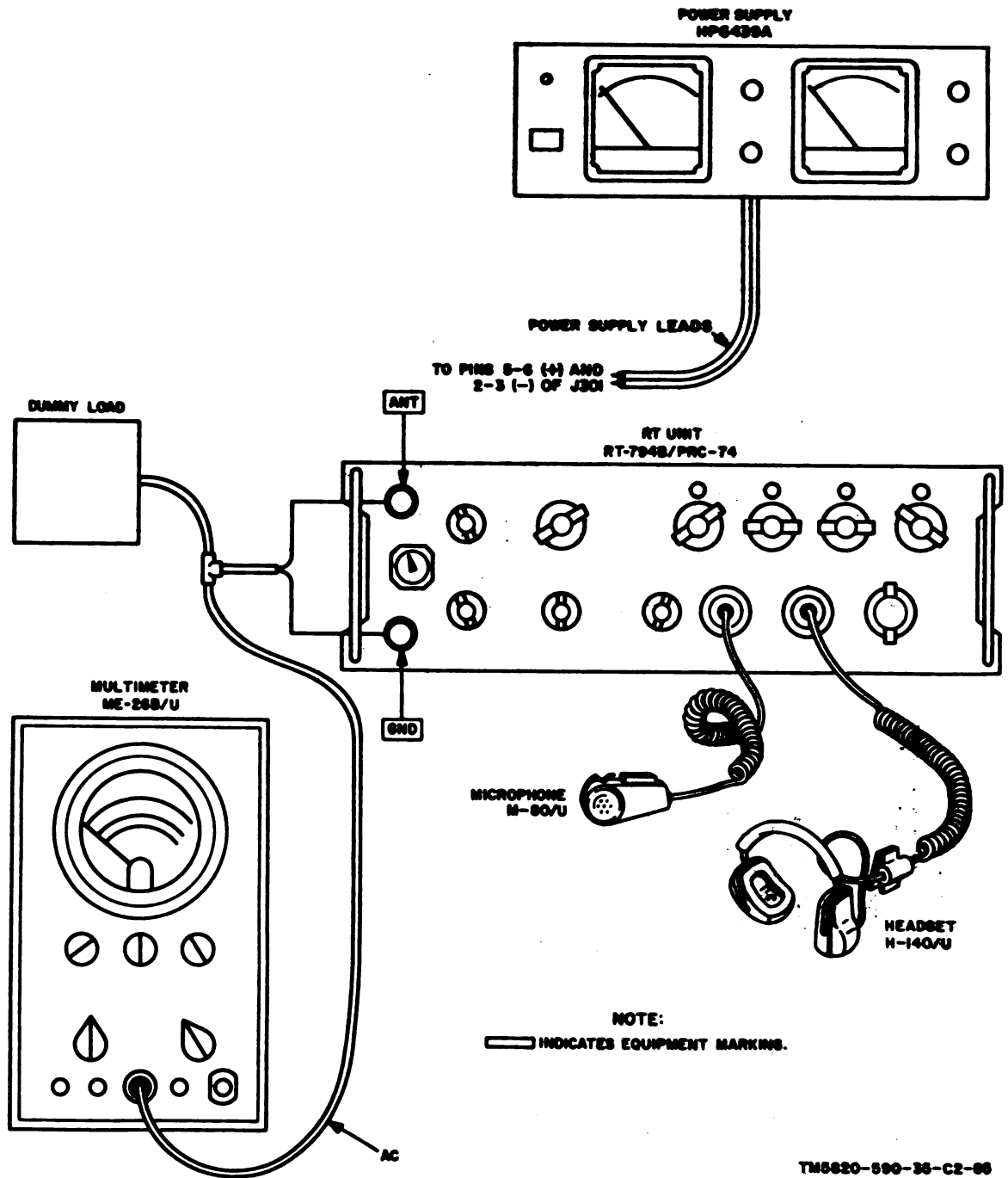
- (1) Signal Generator AN/GRM-50.
- (2) Electronic Voltmeter AN/URM-145.
- (3) Power Supply HP6430A (or equivalent).

- (4) 20-db match pad.

b. Test Connections and Conditions. Connect Receiver-Transmitter, Radio RT-794B/PRC-74 (rt unit) and the test equipment as shown in figure 4-1. Turn on the equipment, and allow it 5 minutes to warm up before proceeding.

c. Procedure.

Step No.	Test equipment	Control settings	Test procedure	Performance standard
1	AN/GRM-50 POWER: ON VERNIER ATTENUA- TOR: 7 micro-volts. RANGE: 2.001 cm HP649A VOLTAGE ADJUST: 15V.	Equipment under test RT-79AB/PBC-74 MC (MHz): 2 100 KC (KHz): 0 10 KC (KHz): 0 1 KC (KHz): 0 OFF-ON-TUNE: ON	a. Adjust AN/GRM-50 for frequency beat note of approximately 1 kc in audio output. b. Turn R. F. GAIN control fully clockwise. c. Adjust PEAK NOISE, ANT LOAD, and ANT TUNE controls for maximum audio output. d. Adjust R206 and R210 on TB-208 (fig. 2-1) for maximum audio output. Adjust T717 for maximum audio output.	a. None. b. None. c. None. d. None.
2	AN/URM-145 RANGE: 1.0 VOLTS	None	a. Connect AN/URM-145 to pins A and B of J202 (AUDIO connector). b. Repeat test with rt unit frequency controls set to 4.000, 7.000, and 12.000 mc, and AN/GRM-50 set to frequencies of 4.001, 7.001, and 12.001 mc. Do not readjust R206, R210, and T717.	a. AN/URM-145 indication should be not less than 0.707 volt rms. b. AN/URM-145 indications should not be less than 0.707 volt rms at all frequency settings.



TM5820-890-35-C2-05

Figure 4-8. Radio set transmit test.

4-5. Radio Set Transmit Test

a. Test Equipment and Materials.

- (1) Multimeter ME-26B/U.
- (2) Power Supply HP6489A (or equivalent).

(3) Probe T-connector HP11042A.

(4) Dummy load, 50-ohm, 20-watt.

b. Test Connections and Conditions. Connect the equipment as shown in figure 4-2. Turn on the equipment, and allow it 5 minutes to warm up before proceeding.

c. Procedure.

Step
No. 1

Test equipment
HP6499A

VOLTAGE ADJUST:
15V.

Control settings

Equipment under test
RT-794B/PRC-74

MC (MHz): 11
100 KC (KHz): 5
10 KC (KHz): 5
1 KC (KHz): 5
OFF-ON-TUNE: ON

ME-36B/U

FUNCTION: +

RANGE: 100V

Test procedure

- a. Turn R. F. GAIN control fully clockwise.
- b. Adjust PEAK NOISE, ANT LOAD, and ANT TUNE controls for maximum audio output.
- c. Adjust R206 and R210 on TB203 (fig. 2-1) for maximum audio output. Adjust T717 for maximum audio output.
- d. Turn OFF-ON-TUNE switch to TUNE.
- e. Adjust R335 (fig. 2-3) on power amplifier module until continuous-wave output as indicated on ME-36B/U is 25.5 volts rms.
- f. Connect microphone to either AUDIO jack.
- g. Speak or whistle into microphone.
- h. Repeat d through g above, with radio set frequency controls set to 2,000, 4,000, 7,000, and 12,000 mc.

Performance standard

- a. None.
- b. None.
- c. None.
- d. None.
- e. ME-36B/U indication: 25.5 volts rms.
- f. None.
- g. ME-36B/U should indicate peaks of not less than 26 volts nor more than 37 volts.
- h. ME-36B/U indication should be not less than 24.5 volts rms at all frequency settings.

4-6. Power Supply PP-4514/PRC-74

a. Test Equipment and Materials. The only test equipment required is Multimeter ME-26B/U.

b. Test Connections and Conditions. Re-

move the battery charger module. Connect the negative lead of Multimeter ME-26B/U to pin 1 of J8 (fig. 2-10), and the positive lead to pin 2. Turn on the test equipment, and allow it 1 minute to warm up.

c. Procedure.

Step No.	Test equipment.	Control settings	Test procedure	Performance standard
1	ME-66B/U FUNCTION: + RANGE: 100V	Equipment under test PP-4514/PEC-74 POWER ON: ON	<p>a. Connect P1A of cable W1 to J1 and to a 28-volt power source.</p> <p>b. Disconnect cable W1, and connect P1B of cable W3 to J1 and to a 110-volt, 50- to 400-cps power source.</p> <p>c. Replace battery charger module.</p> <p>b. Connect P1A of cable W1 to J1 and to a 28-volt power source.</p> <p>c. Turn METER switch to RADIO VOLTS.</p> <p>d. Momentarily short-circuit pins 2 and 6 of J4.</p> <p>a. Turn METER switch to BATTERY VOLTS.</p> <p>b. Connect cable W5 to J5.</p> <p>c. Turn CHARGING CURRENT control fully clockwise.</p> <p>d. Momentarily short-circuit battery clips of cable.</p>	<p>a. ME-66B/U indication: 28 volts.</p> <p>b. ME-66B/U indication: 20-40 volts.</p> <p>a. None.</p> <p>b. None.</p> <p>c. Power supply meter should indicate 14 ±3 volts.</p> <p>d. Power supply meter should indicate 0 volt.</p> <p>e. Power supply panel meter should indicate 20 volts.</p> <p>b. None.</p> <p>c. None.</p> <p>d. Power supply meter should indicate 0 volts.</p>
2	ME-66B/U Disconnected.	None.	<p>a. Turn METER switch to RADIO VOLTS.</p> <p>d. Momentarily short-circuit pins 2 and 6 of J4.</p> <p>a. Turn METER switch to BATTERY VOLTS.</p> <p>b. Connect cable W5 to J5.</p> <p>c. Turn CHARGING CURRENT control fully clockwise.</p> <p>d. Momentarily short-circuit battery clips of cable.</p>	<p>a. None.</p> <p>b. None.</p> <p>c. Power supply meter should indicate 14 ±3 volts.</p> <p>d. Power supply meter should indicate 0 volt.</p> <p>e. Power supply panel meter should indicate 20 volts.</p> <p>b. None.</p> <p>c. None.</p> <p>d. Power supply meter should indicate 0 volts.</p>
3	None.	PP-4514/PEC-74 CHARGER ON: ON	<p>a. Turn METER switch to RADIO VOLTS.</p> <p>d. Momentarily short-circuit pins 2 and 6 of J4.</p> <p>a. Turn METER switch to BATTERY VOLTS.</p> <p>b. Connect cable W5 to J5.</p> <p>c. Turn CHARGING CURRENT control fully clockwise.</p> <p>d. Momentarily short-circuit battery clips of cable.</p>	<p>a. Power supply meter should indicate 14 ±3 volts.</p> <p>d. Power supply meter should indicate 0 volt.</p> <p>e. Power supply panel meter should indicate 20 volts.</p> <p>b. None.</p> <p>c. None.</p> <p>d. Power supply meter should indicate 0 volts.</p>

4-7. Summary of Test Data

Personnel may find it convenient to arrange a checklist in a manner similar to that shown below:

RT-794B/PRC-74

	Actual Test Data	Performance Standard	
1. RECEIVE MODE			
a. 2.000 mc	_____	0.707 volts rms minimum	
b. 4.000 mc	_____	0.707 volts rms minimum	
c. 7.000 mc	_____	0.707 volts rms minimum	
d. 12.000 mc	_____	0.707 volts rms minimum	
2. TRANSMIT MODE			
		Continuous wave output	Power output peaks
a. 2.000 mc	_____	25.5 volts rms minimum	26-37 volts
b. 4.000 mc	_____	25.5 volts rms minimum	26-37 volts
c. 7.000 mc	_____	25.5 volts rms minimum	26-37 volts
d. 12.000 mc	_____	25.5 volts rms minimum	26-37 volts

PP-4514/PRC-74

	Actual Test Data	Performance Standard	
OUTPUT VOLTAGE REGULATION			
a. Module case	_____	20 to 40 volts	
b. Power supply module	_____	14 ±3 volts	
c. Battery charger	_____	20 volts	

CHAPTER 4.1

DEPOT MAINTENANCE

Section I. POWER AMPLIFIER MODULE

4.1-1. Test Equipment and Additional Equipment Required

The test equipment and additional equipment required for depot maintenance of the power amplifier module is listed in *a* and *b* below.

a. Test Equipment.

- (1) Generator, Signal AN/GRM-50.
- (2) Multimeter ME-26B/U.
- (3) Multimeter TS-352B/U (three required).
- (4) Power Supply, Hewlett-Packard HP 6489A (three required).

b. Additional Equipment.

- (1) Resistor, 50-ohm, 20-watt.
- (2) Hewlett-Packard TEE Connector No. 11042A (T-connector).

4.1-2. Power Amplifier Module Troubleshooting

a. Connect the test equipment to the power amplifier module as shown in figure 4.1-1.

b. Set power supply No. 1 for 12.0 volts ± 0.6 , 200 ma.

c. Set power supply No. 2 for 9.0 volts ± 0.45 , 400 ma.

d. Set power supply No. 3 for 40 volts ± 2 , 1 ampere.

e. Set the AN/GRM-50 to 2 mc at 10 mv.

f. Set Multimeter TS-352B/U No. 1 to the 1-MA scale, Multimeter TS-352B/U No. 2 to the 10-VDC scale, and Multimeter TS-352B/U No. 3 to the 1,000-MA scale.

g. Adjust the AN/GRM-50 output for an indication of 850 ma on multimeter No. 3.

h. Adjust L807 and C825 (fig. 4.1-2) for a maximum indication on multimeter No. 1.

i. Adjust the AN/GRM-50 output for an indication of 24.5 volts ac on Multimeter ME-26B/U (fig. 4.1-1).

j. The input level from the signal generator shall be equal to or less than 70 mv.

k. Multimeter No. 1 shall indicate 0.5 to 1.0 ma.

l. Multimeter No. 3 shall indicate no more than 850 +0, -150 ma.

m. Repeat the procedures in *g* through *l* above for each of the following frequencies: 3.5 mc, 6 mc, 10.5 mc, and 18 mc.

n. Reduce the output of power supply No. 3 to 30 volts. Multimeter ME-26B/U shall indicate less than 5 volts ac.

o. If the ME-26B/U indications are not within tolerance, perform the alignment procedure for the power amplifier module (para 4.1-5).

p. If the power amplifier cannot be aligned, check the power amplifier module as follows:

(1) Unsolder the wire from relay K1, pin A2, (fig. 4.1-3) (connected to junction of C825 and L807), and connect a 100-ohm, 20-watt load between pin A2 and ground.

(2) Turn on all the power supplies.

(3) Set the AN/GRM-50 for an output of 6 mc at 20 to 40 mv.

(4) Connect Multimeter ME-26B/U between the yellow primary winding of transformer T1 and ground. The ME-26B/U indication shall be approximately 2.1 volts ac.

(5) If the ME-26B/U indication obtained in (4) above is low, check for defective components in the preamplifier. Approximate emitter voltages of Q1, Q2, and Q3 (fig. 4.1-4)

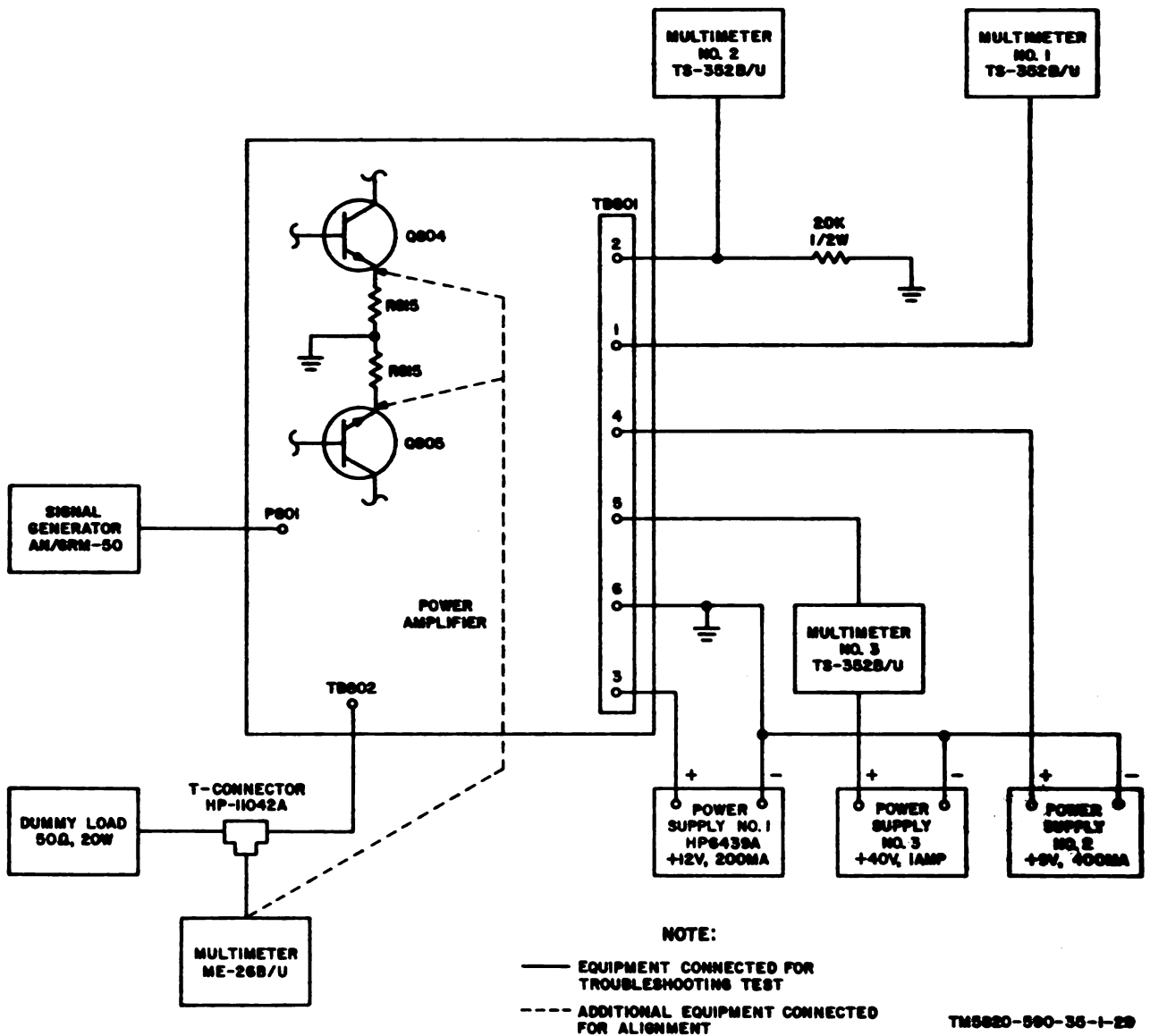


Figure 4.1-1. Power amplifier module, test setup.

shall be +0.5 volt, +1.2 volt, and +1.2 volt respectively. Replace defective transistors.

(6) Disconnect Multimeter ME-26B/U.

(7) Disconnect the 100-ohm load ((1) above), and solder the wire to K1, pin A2 (from the junction of L807 and C825).

(8) Disconnect the AN/GRM-50 from P801 (fig. 8-17).

(9) Multimeter No. 3 shall indicate less than 100 ma.

(10) If the multimeter indication ((9) above) is greater than 100 ma, check for a defective transistor Q4 or Q5 (fig. 4.1-3), or bias network R12, R18, and R14 (figs. 4.1-4 and 4.1-3).

(11) If no current flow is indicated ((9) above) check for defective components in the Q4 and Q5 circuits.

(12) Connect the AN/GRM-50 to P801 (fig. 4.1-5), and set the output for 6 mc at 30 mv.

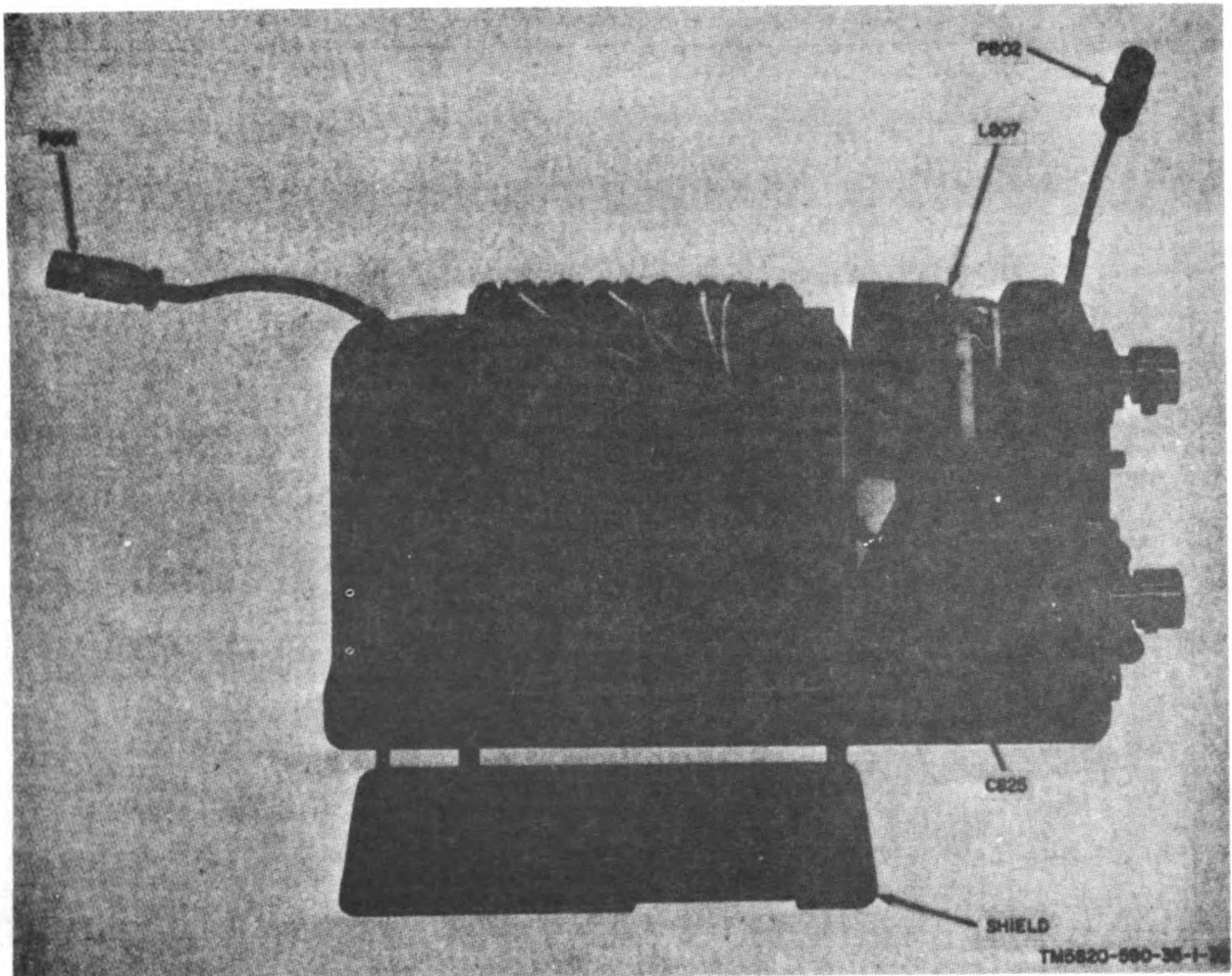


Figure 4.1-6. Power amplifier module, right side, component board removed.

(13) Multimeter No. 3 should indicate between 650 and 1,000 ma.

(14) If the measurement obtained in (13) above is not within tolerance, check for a defective transistor Q4 or Q5 (fig. 4.1-3).

4.1-3. Power Amplifier Module Disassembly (fig. 4.1-6)

Disassemble the power amplifier module as follows:

a. Remove four screws (1), and remove divider shield (2).

b. Unsolder wires from driver board (3), and remove driver board from preamplifier chassis (11).

c. Disconnect wires from terminal board TB801 (6).

d. Remove two screws (4) and washers (5), and lift terminal board TB801 (6) from preamplifier chassis (11).

e. Unsolder wires from preamplifier board (9).

f. Remove four screws (7) and washers (8), and lift preamplifier board (9) from preamplifier chassis (11).

g. Unsolder wires from preamplifier chassis (11).

h. Remove four screws (10), and lift pre-

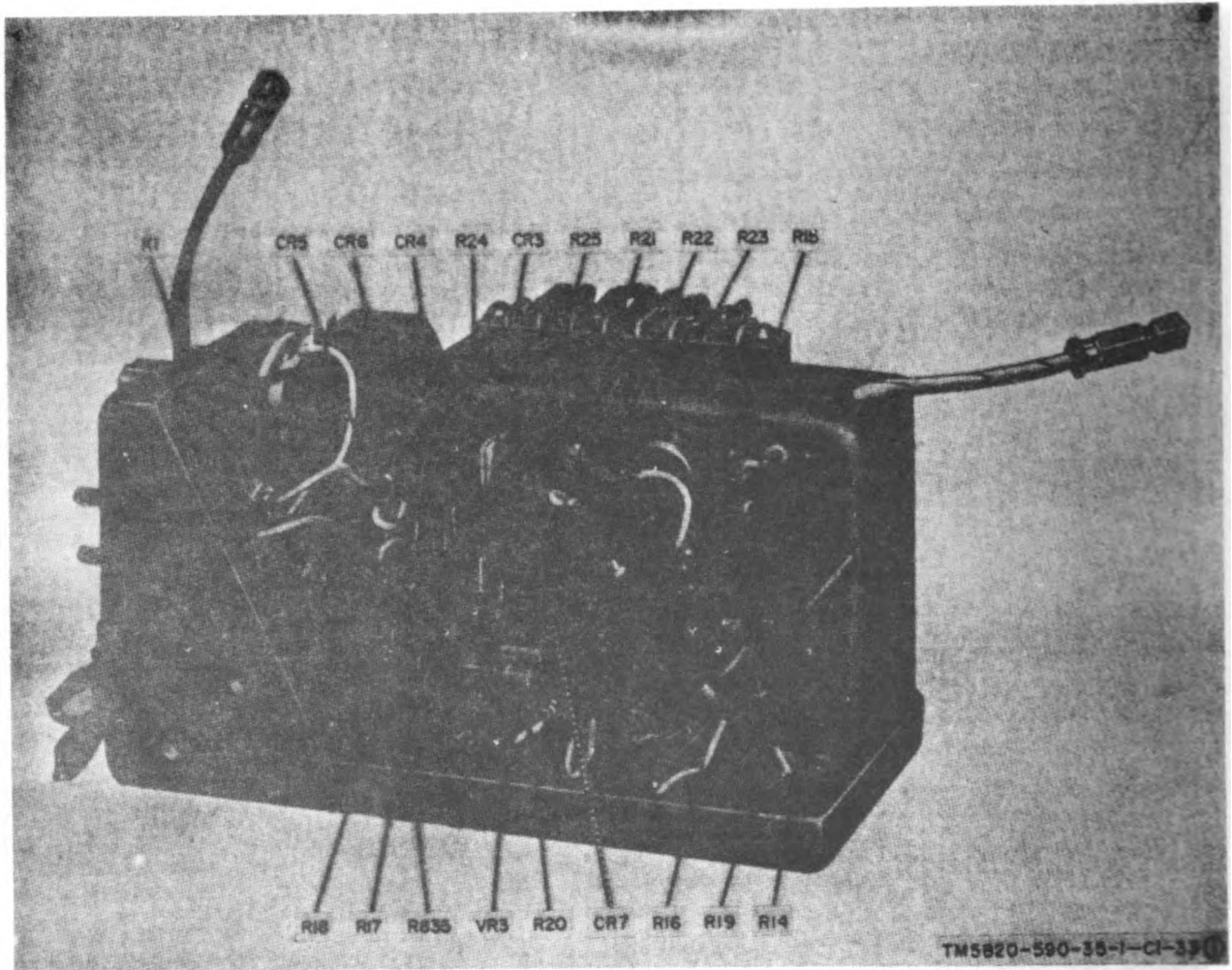


Figure 4.1-3①. Power amplifier module, left-hand side (part 1 of 2).

amplifier chassis (11) from power amplifier chassis (23).

i. Unsolder wires from relay K1 (14).

j. Remove two nuts (12) and washers (13), and lift relay K1 (14) from power amplifier chassis (23).

k. Remove four setscrews (15) and two shaft couplers (16).

l. Unsolder wires from capacitor C825 (20).

m. Remove three screws (17), and washers (18), and lift capacitor C825 (20) from power amplifier chassis (23).

n. Unsolder wires from inductor L807 (22).

o. (Applies to AN/PRC-74B only). Remove nut (21), and lift inductor L807 (22) from power amplifier chassis (23).

p. (Applies to AN/PRC-74C only). Remove nut (21), lockwasher (21A), and lift inductor L802 (22) from power amplifier chassis (23).

q. (Applies to AN/PRC-74C only). Remove antirotational washer (22A) from inductor L807.

4.1-4. Power Amplifier Module Assembly (fig. 4.1-6)

Reassemble the power amplifier module as follows:

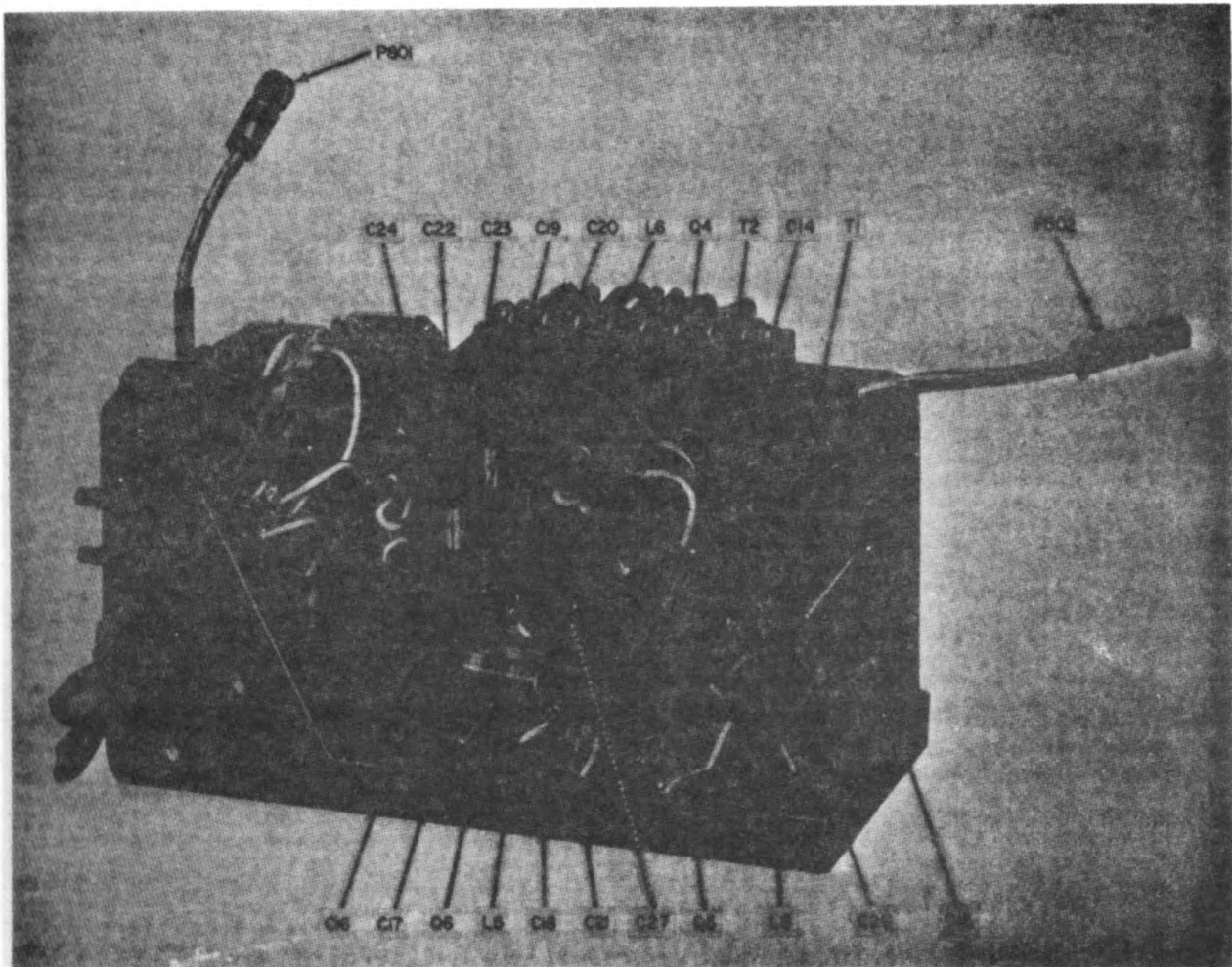


Figure 4.1-3①. Power amplifier module, left-hand side (part 2 of 2).

a. (Applies to AN/PRC-74B only). Install inductor L807 (22) in power amplifier chassis (23), and secure with nut (21). Apply Loctite Sealant (MIL-S-22473B, FSN 8030-926-8953) to nut. Solder wire connections.

a.1 (Applies to AN/PRC-74C only). Place antirotational washer (22A) on shaft of inductor L807. Install inductor L807 (22) and lockwasher (21A) in power amplifier chassis (23), and secure with nut (21). Apply Loctite Sealant (MIL-S-22473B, FSN 8030-926-8953) to nut. Solder wire connections.

b. Install capacitor C825 (20) in power amplifier chassis (23), and secure with three washers (18), and screws (17). Solder wire connections.

c. Install two shaft couplers (16) in power amplifier chassis (23), and secure with four setscrews (15).

d. Install relay K1 (14) in power amplifier chassis (23), and secure with two washers (13) and nuts (12). Solder wire connections.

e. Position preamplifier chassis (11) on power amplifier chassis (23), and secure with four screws (10). Solder wire connections.

f. Position preamplifier board (9) on preamplifier chassis (11), and secure with four washers (8) and screws (7). Solder wire connections.

g. Position terminal board TB801 (6) on preamplifier chassis (11), and secure with two

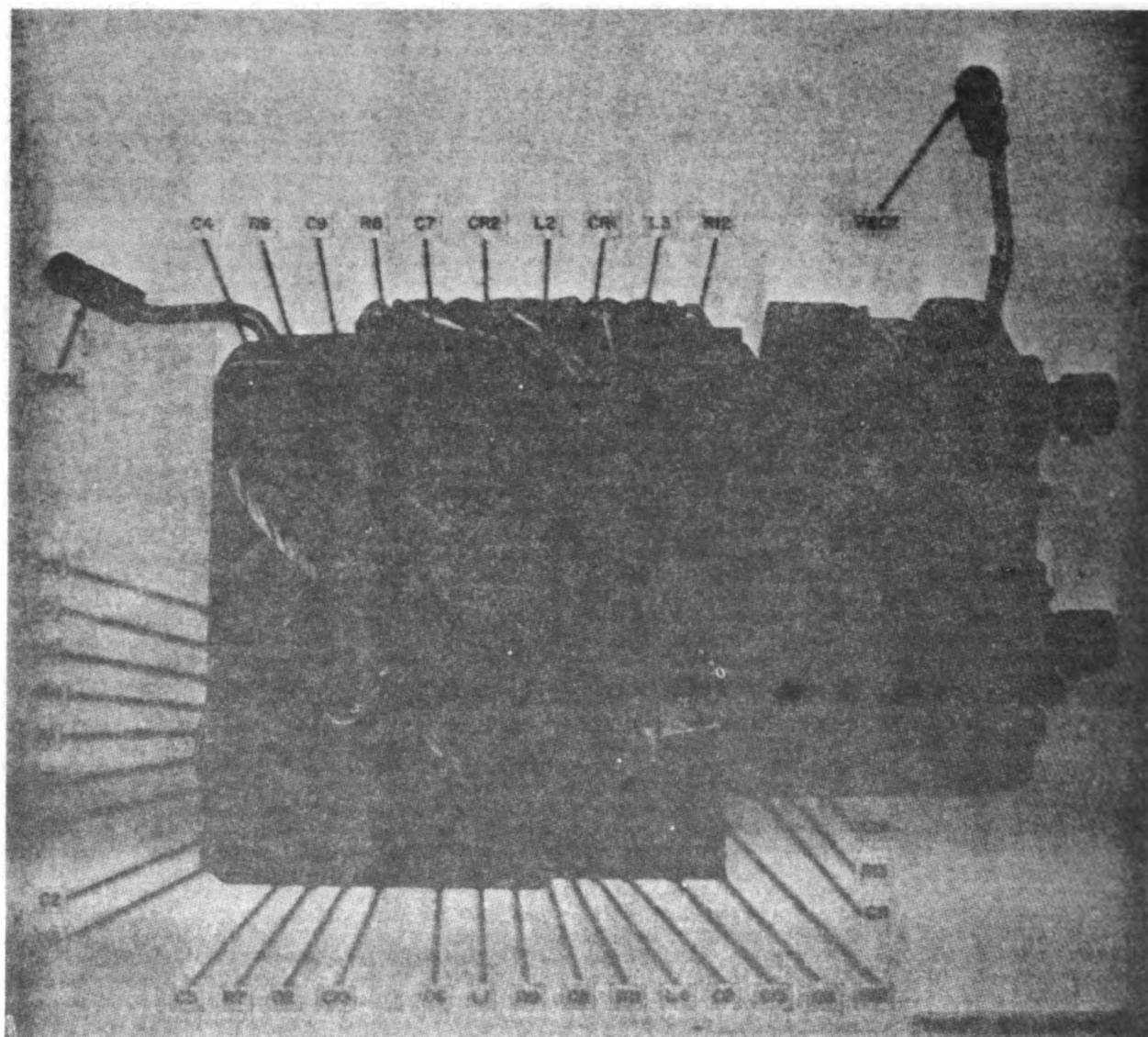


Figure 4.1-4. Power amplifier module, right-hand side.

washers (5) and screws (4). Connect wires to terminal board TB801 (6).

h. Solder wire connections on driver board (3).

i. Position driver board (3) and driver shield (2) on preamplifier chassis (11), and secure with four screws (1).

4.1-5. Power Amplifier Module Alignment

a. Connect the test equipment to the power amplifier module as shown in figure 4.1-1.

b. Set power supply No. 1 to 12.0 volts ± 0.6 , 400 ma ± 40 .

c. Set power supply No. 2 to 9.0 volts ± 0.45 , 200 ma ± 20 .

d. Set power supply No. 3 to 40.0 volts ± 2 , 1 ampere ± 0.1 .

e. Set Signal Generator AN/GRM-50 to 2 mc, 10 mv.

f. Set multimeter No. 1 to the 1-MA scale, multimeter No. 2 to the 10-VDC scale, and multimeter No. 3 to the 1,000-MA scale.

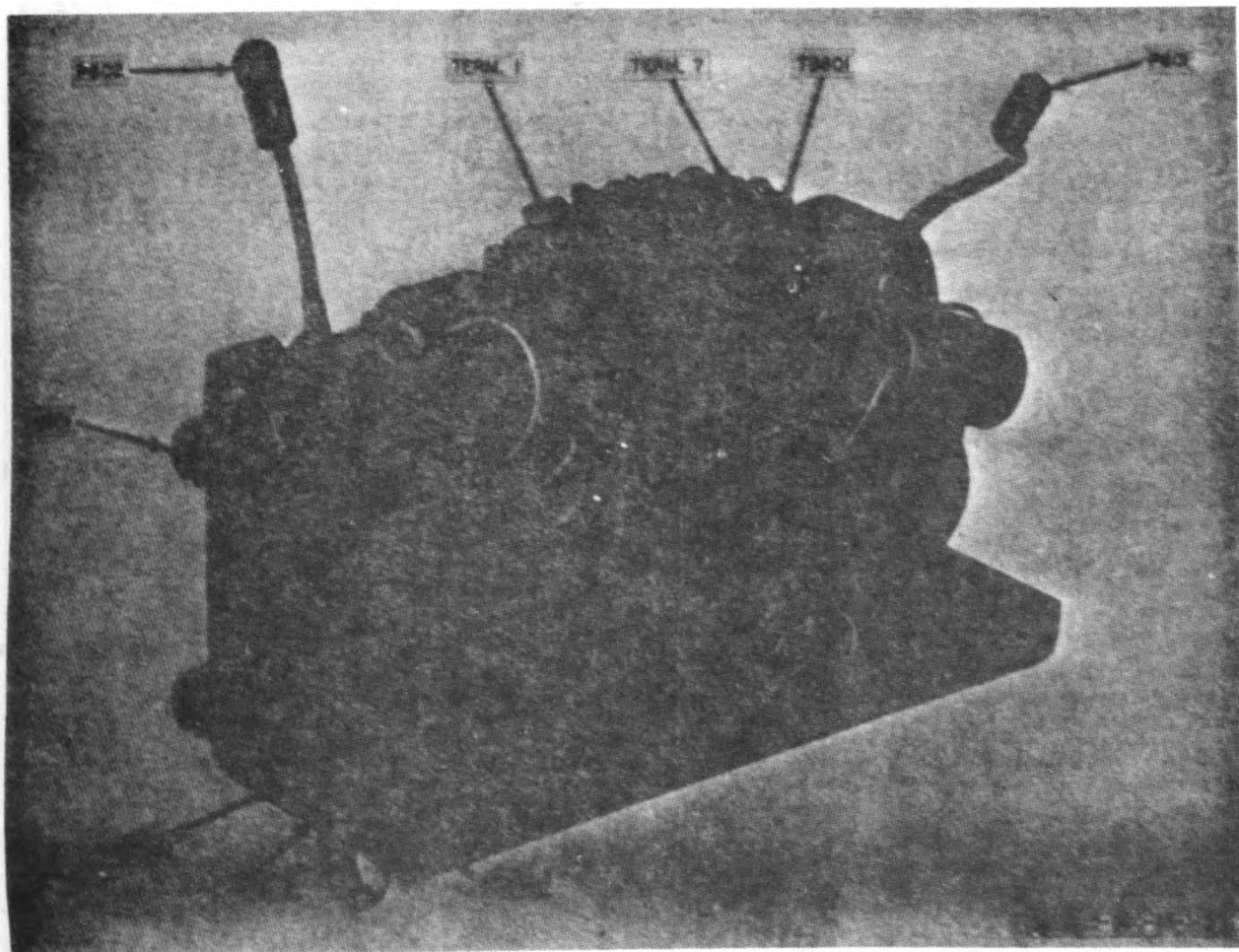


Figure 4.1-5. Power amplifier module.

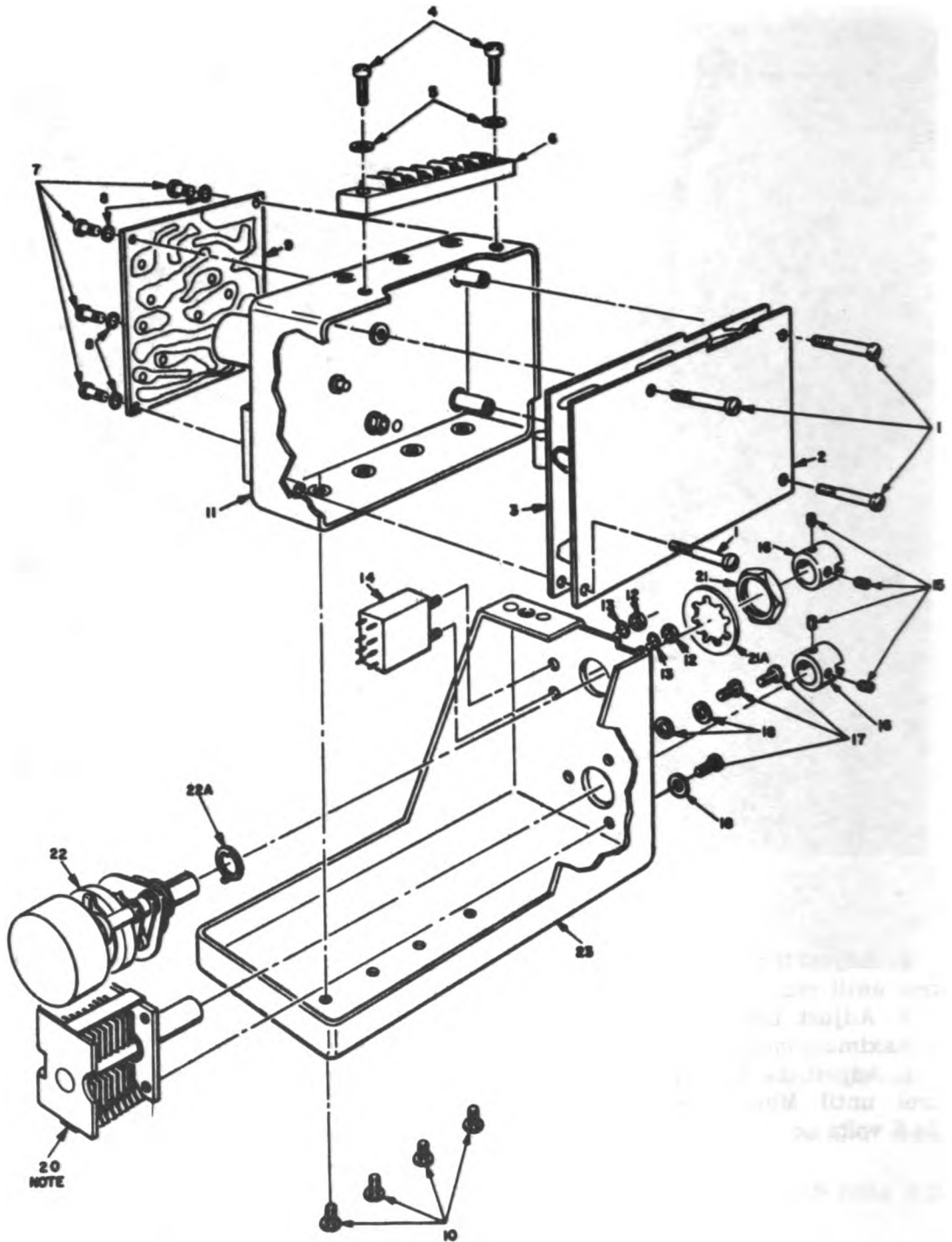
g. Adjust the AN/GRM-50 output level control until multimeter No. 3 indicates 850 ma.

h. Adjust L807 and C825 (fig. 4.1-2) for a maximum indication on multimeter No. 1.

i. Adjust the AN/GRM-50 output level control until Multimeter ME-26B/U indicates 24.5 volts ac.

j. With Multimeter ME-26B/U, measure the dc emitter voltages of Q4 and A5. (fig. 4.1-3). The difference between the two voltages shall be less than 50 mv dc. If the difference exceeds 50 mv dc, replace Q4 and Q5.

k. Adjust R835 (fig. 4.1-3) until multimeter No. 2 indicates 3.5 volts.



NOTE:
ON AM/PAC-74B THE ROTOR OF C888
IS CONNECTED TO GROUND.
ON AM/PAC-74C THE STATOR OF C888
IS CONNECTED TO GROUND.

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Figure 4.1-6. Power amplifier module, exploded view.

1 Screw	10 Screw	19 Deleted
2 Driver shield	11 Preamplifier chassis	20 Capacitor C825
3 Driver board	12 Nut	21 Nut
4 Screw	13 Washer	21A Lockwasher (AN/PRC-74C only)
5 Washer	14 Relay K1	22 Inductor L807
6 Terminal board TB801	15 Setscrew	22A Antirotational Washer (AN/PRC-74C only)
7 Screw	16 Shaft coupler	23 Power amplifier chassis
8 Washer	17 Screw	
9 Preamplifier board	18 Washer	

Figure 4.1-8.—Continued.

Section II. POWER SUPPLY MODULE

4.1-6. Test Equipment and Additional Equipment Required

The test equipment and additional equipment required for depot maintenance of the power supply module is listed in *a* and *b* below.

a. Test Equipment.

- (1) Multimeter TS-352B/U.
- (2) Power Supply, Hewlett-Packard HP 6489A.

b. Additional Equipment.

- (1) Resistor, 20-ohm ± 5 percent, 50-watt.
- (2) Resistor, 40-ohm ± 5 percent, 50-watt.
- (3) Resistor, 60-ohm ± 5 percent, 2-watt.
- (4) Resistor, 80-ohm ± 5 percent, 25-watt.
- (5) Resistor, 800-ohm, 4-watt.
- (6) Resistor, 900-ohm, 1/2-watt.

4.1-7. Power Supply Module Troubleshooting

CAUTION

Do not turn off the power supply at J301 when the multimeter is connected.

a. Connect an 800-ohm, 4-watt resistor between the terminal 3 lead to TB201 of the power supply module (figs. 4.1-7 and 4.1-8 and ground).

b. Connect a 60-ohm, 2-watt resistor between the terminal 7 lead to TB201 of the power supply module and ground.

c. Connect the negative terminal of the HP-6489A to pins 2 and 3 of J301. Connect the

positive terminal of the HP6489A to pins 5 and 6 of J301.

d. With clip leads, connect the terminal 2 lead of TB201 to the terminal 6 lead, and connect the terminal 1 lead to the terminal 8 lead.

e. Adjust the HP6489A for an output of 12 volts at 10 amperes.

f. Disconnect the clip lead from the terminal 1 lead. Measure and record the +9-volt output at the terminal 7 lead with the TS-352B/U. The output shall be 9.0 volts ± 0.6 .

g. If the voltage measured is not within the specified range, check transistor Q5 and its associated components. The base voltage of Q5 should be approximately +9.7 volts. Check fuse F2.

h. Turn off the HP6489A. Connect the clip lead from the terminal 8 lead to the terminal 1 lead. Disconnect the 60-ohm resistor from the terminal 7 lead, and replace it with a 900-ohm, 1/2-watt resistor. Disconnect the 800-ohm resistor from the terminal 3 lead, and replace it with an 80-ohm, 25-watt resistor.

i. Turn on the HP6489A. Measure and record the output at the terminal 3 lead with the TS-352B/U. The output shall be +41.5 volts ± 2.5 .

j. If the voltage measured is not within the specified range, check transistors Q1 through Q4, Q6, and their associated components. Check fuse F1.

k. Turn off the HP6489A. Disconnect the 80-ohm resistor from the terminal 3 lead, and replace it with a 20-ohm, 50-watt resistor.

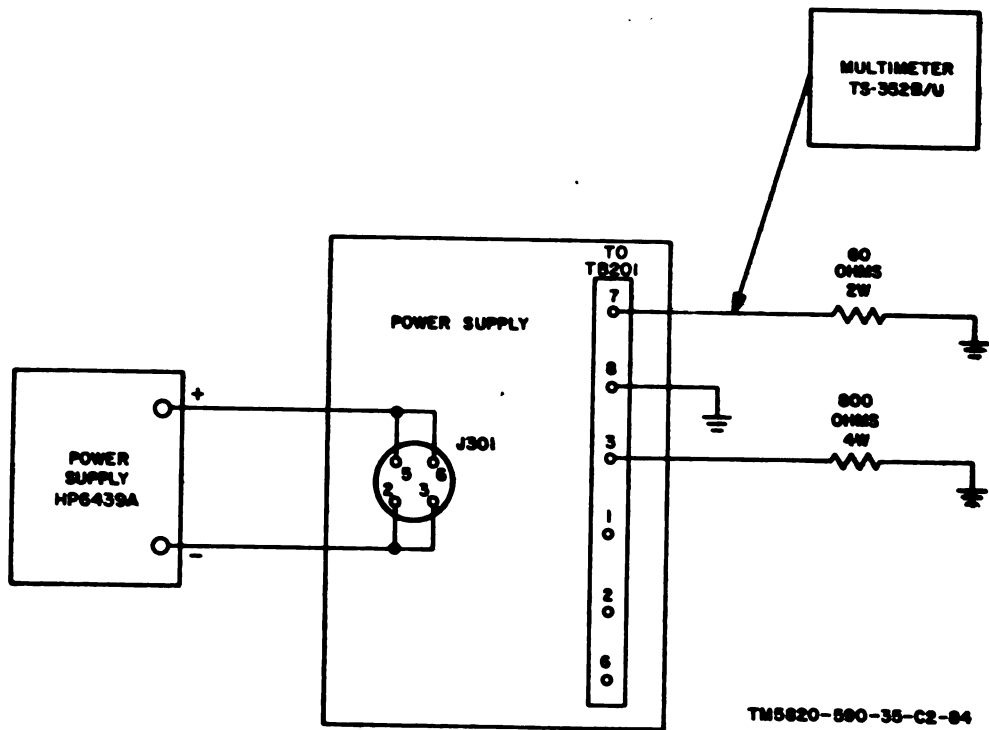


Figure 4.1-7. Power supply module, test setup.

l. Turn on the HP6439A. The output at the terminal 3 lead shall be not more than +30.0 volts. Turn off the HP6439A.

m. If the voltage measured is not within the specified range, check transistors Q3, Q4, Q6, and their associated components.

n. Disconnect the 20-ohm resistor from the terminal 3 lead, and replace it with an 800-ohm, 4-watt resistor.

o. Turn on the HP6439A, and adjust it for an output of 10.5 volts at 10 amperes.

p. Disconnect the 900-ohm resistor from the terminal 7 lead, and replace it with a 20-ohm, 50-watt resistor. The output at the terminal 7 lead shall be within +0.5, -0.25 volt of the output recorded in f above. Disconnect the 20-ohm resistor from the terminal 7 lead, and replace it with the 900-ohm resistor.

q. Disconnect the 800-ohm resistor from the terminal 3 lead, and replace it with a 40-ohm, 50-watt resistor. The output at the terminal 3 lead shall be within ± 2 volts of the output

recorded in i above. Disconnect the 40-ohm resistor from the terminal 3 lead, and replace it with the 800-ohm resistor.

r. Adjust the HP6439A for an output of 17.0 volts. The output at the terminal 3 lead shall be within ± 2 volts of the output recorded in i above.

s. Disconnect the clip lead from the terminal 1 lead. The output at the terminal 7 lead shall be within +0.5, -0.25 volts of the output recorded in f above.

4.1-8. Power Supply Module Disassembly (fig. 4.1-10)

Disassemble the power supply module as follows:

a. Remove upper cover (1) and lower cover (2).

b. Remove four screws (3) and washers (4), and lift power transformer and rectifier board (5) from chassis (25). Unsolder wire connections.

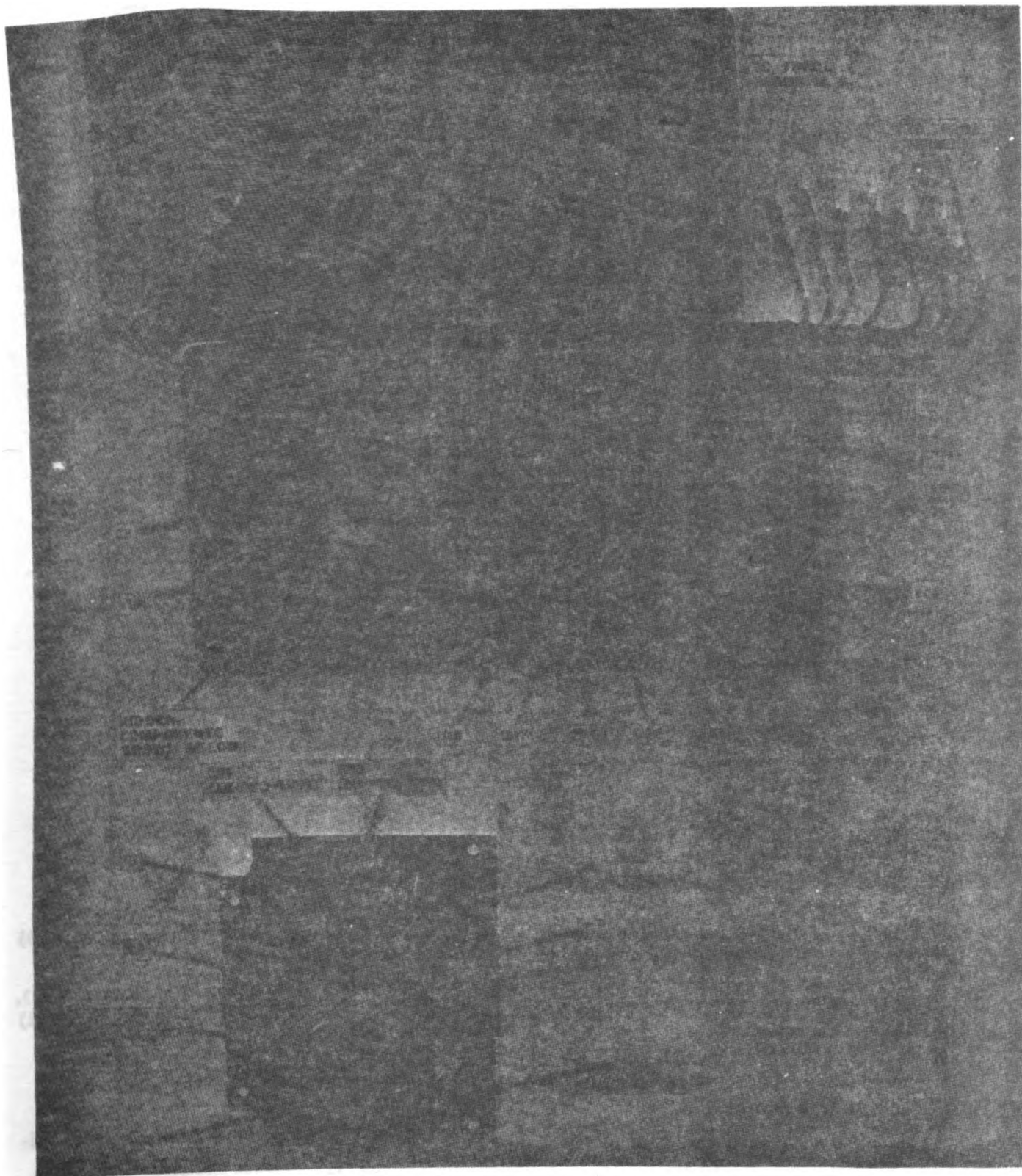


Figure 4.1-8. Power supply module, front view.

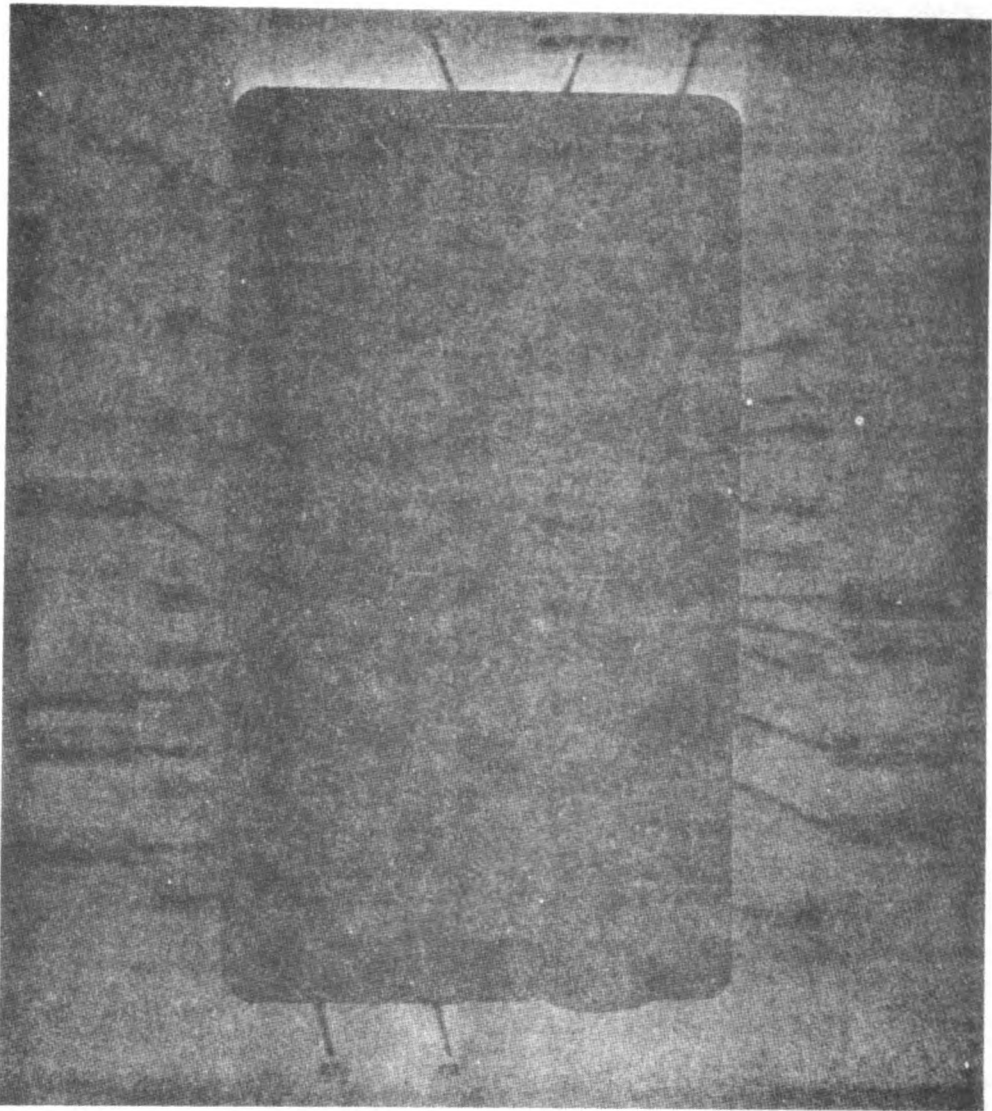


Figure 4.1-9. Power supply module, rear view.

c. Remove three nuts (6), lockwashers (7), washers (8 and 9), screws (10), and shoulder washers (11).

d. Lift fuse block (12) from chassis (25), and unsolder wire connections.

e. Remove retaining ring (18).

f. Lift connector J301 (19) from chassis (25), and remove washer (14).

g. Unsolder wire connection to connector J301 (19).

h. Remove retaining ring (15), adapter seal

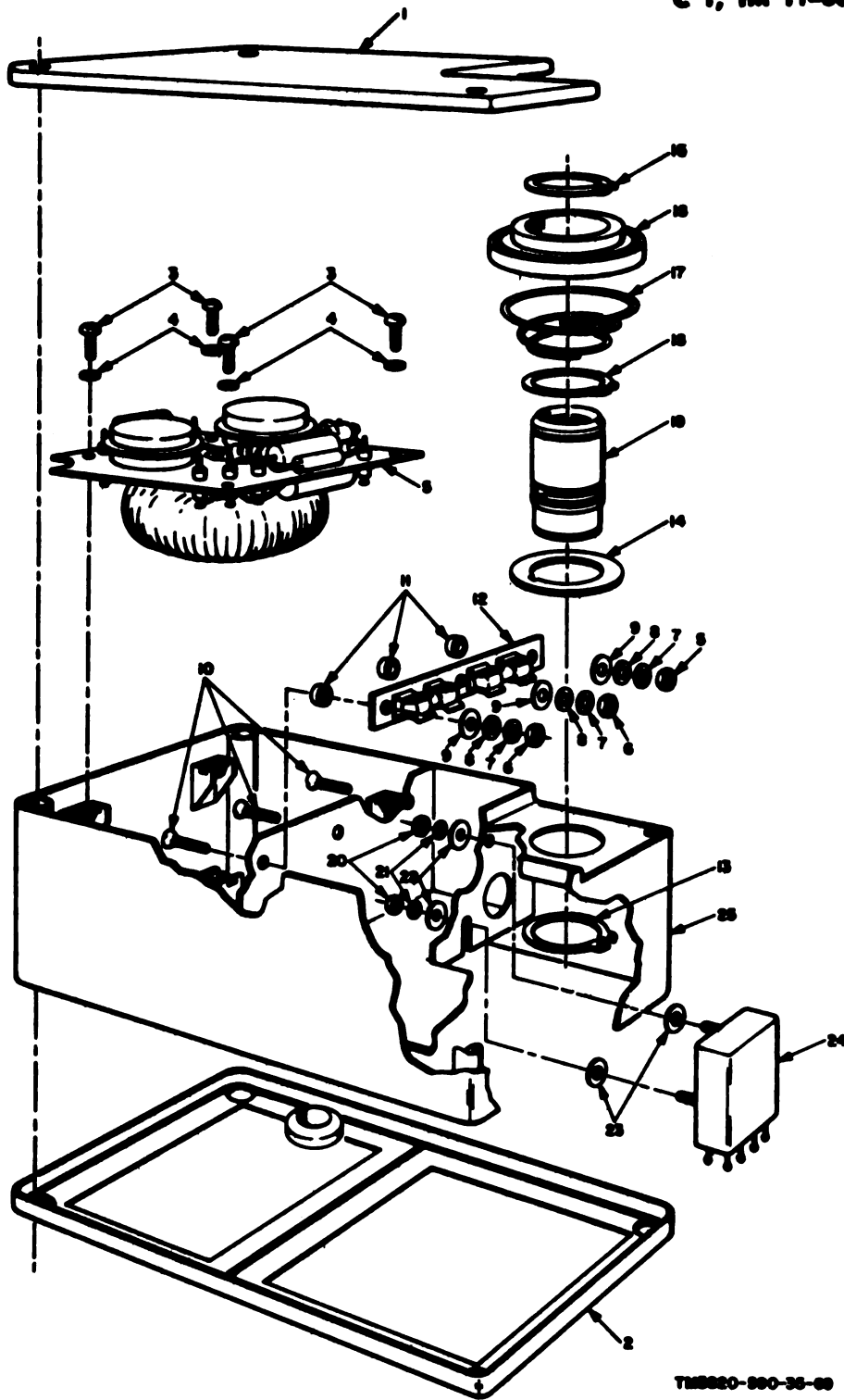
(16), spring (17), and retaining ring (18) from connector J301 (19).

i. Remove two nuts (20), lockwashers (21), and washers (22 and 23); lift relay K1 (24) from chassis (25).

4.1-9. Power Supply Module Assembly (fig. 4.1-10)

Reassemble the power supply module as follows:

a. Install relay K1 (24) in chassis (25),



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- | | | | |
|---|--------------------|-------------------|---------------|
| 1 Upper cover | 6 Nut | 13 Retaining ring | 20 Nut |
| 2 Lower cover | 7 Lockwasher | 14 Washer | 21 Lockwasher |
| 3 Screw | 8 Washer | 15 Retaining ring | 22 Washer |
| 4 Washer | 9 Washer | 16 Adapter seal | 23 Washer |
| 5 Power transformer and rectifier board | 10 Screw | 17 Spring | 24 Relay K1 |
| | 11 Shoulder washer | 18 Retaining ring | 25 Chassis |
| | 12 Fuse block | 19 Connector J301 | |

Figure 4.1-10. Power supply module, exploded view.

and secure with two washers (23 and 22), lockwashers (21), and nuts (20).

b. Install retaining ring (18), spring (17), adapter seal (16), and retaining ring (15) on connector J801 (19).

c. Solder wire connections to connector J801 (19).

d. Install washer (14) on connector J801 (19), and assemble to chassis (25) with retaining ring (13).

e. Attach wire connections to fuse block (12).

f. Attach fuse block (12) to chassis (25) with two shoulder washers (11), screws (10), washers (9 and 8), lockwashers (7), and nuts (6).

g. Attach power transformer and rectifier board (5) to chassis (25) with four washers (4) and screws (3).

h. Attach wire connections to power transformer and rectifier board (5).

i. Position lower cover (2) and upper cover (1) on chassis (25).

CHAPTER 5

DEPOT OVERHAUL STANDARDS

5-1. Applicability of Depot Overhaul Standards

The tests presented in this chapter will measure the performance capability of a repaired AN/PRC-74B. Equipment that is to be returned to stock should meet the standards given in these tests.

5-2. Applicable references

Applicable procedures of the depots performing these tests and the general standards for repaired electronic equipment given in TB SIG 355-1, TB SIG 355-2, and TB SIG 355-3 form a part of the requirements for testing this equipment.

5-3. Materiel Required

a. Test Equipment.

- (1) Generator, Signal AN/GRM-50.
- (2) Generator, Signal AN/URM-127 (two required).
- (3) Counter, Electronic Digital Readout AN/USM-207 (frequency meter).
- (4) Multimeter ME-26B/U.
- (5) Voltmeter, Electronic ME-30B/U.
- (6) Analyzer, Spectrum TS-723A/U.
- (7) Power Supply, Hewlett Packard HP-6439A (power supply).
- (8) Test Set, Radio AN/GRM-33A.
- (9) Attenuator, Variable CN-796/U (variable attenuator).
- (10) Probe T-Connector HP-11042A.
- (11) Headset H-140/U.
- (12) Connector, Adapter UG-274A/U (two required).

(13) Connector, Adapter U-182B/U.

(14) Dummy Load, Electrical DA/75/U.

b. Fabricated Equipment.

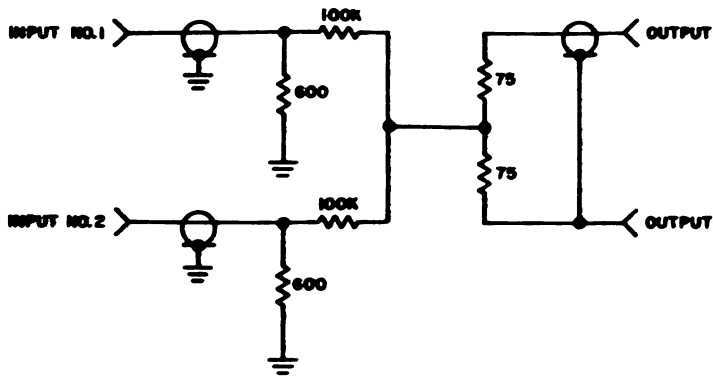
- (1) Adder network (A or B, fig. 5-1) (B preferred).
- (2) Test cable (C, fig. 5-1).
- (3) Power cable (D, fig. 5-1).

5-4. Receive Mode Tests

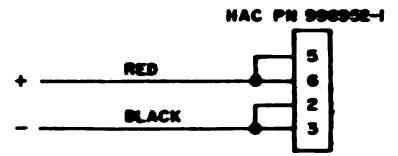
The tests in *a* through *g* below will determine that the radio set operates properly in the receive mode. Prior to performing the tests, remove the case from the RT-794B/PRC-74.

a. Receiver Sensitivity and Audio Output.

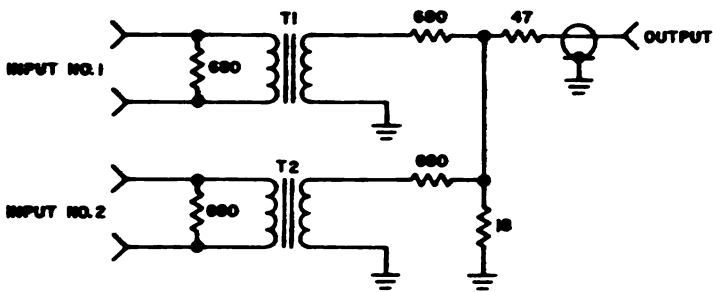
- (1) Connect the equipment as shown in figure 5-2.
- (2) Set the power supply to 12 volts.
- (3) Set the variable attenuator to 20 db.
- (4) Adjust the AN/GRM-50 for an output of 2.001 mc at a level of 7.0 microvolts.
- (5) On the radio set, set the band-switches to 2.000 mc.
- (6) On the radio set, adjust the PEAK NOISE, ANT LOAD, and ANT TUNE controls for maximum noise in the headset by following the receive mode operating instructions in TM 11-5820-590-12-1.
- (7) If necessary, readjust the output frequency of the AN/GRM-50 to obtain a beat frequency of 1 kc on the AN/USM-207.
- (8) Check to see that the audio output level on the ME-30B/U is greater than 0.707 volt.
- (9) Repeat the procedures in (3) through (8) above for the frequencies listed in the chart below.



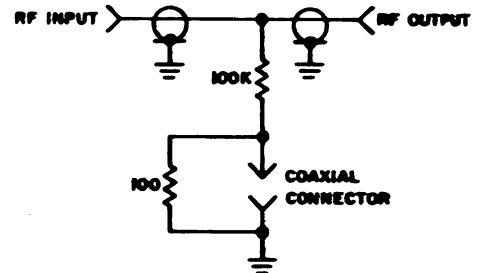
A. ADDER



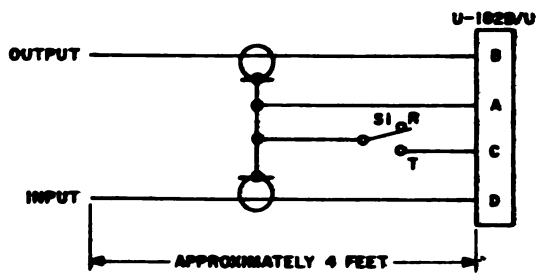
D. POWER CABLE



B. ADDER



E. T-COUPLER



C. TEST CABLE

- NOTES:
1. ALL RESISTANCES IN OHMS $\pm 5\%$, 1/4 WATT.
 2. T1, T2, 30:1 TURNS RATIO.
 3. OUTPUT LEADS OF ADDER(B) ARE ISOLATED FROM GROUND. SHIELD ENCLOSURE IS ISOLATED FROM RADIO SET CHASSIS GROUND.

TM5820-590-35-150

Figure 5-1. Fabricated equipments.

Radio Set frequency (mc)	AN/GRM-50 frequency (mc)	Minimum audio output level (volts)
2.000	2.001	0.707
4.000	4.001	0.707
7.000	7.001	0.707
12.000	12.001	0.707
14.000	14.001	0.707
16.000	16.001	0.707
17.999	18.000	0.707

(10) Leave the equipment connected for the test in *b* below.

b. Signal-to-Noise-Ratio.

- (1) Set the power supply to 12 volts.
- (2) Set the variable attenuator to 20 db.
- (3) Adjust the AN/GRM-50 for an output of 17.001 mc at a level of 7 microvolts.
- (4) On the radio set, set the band-switches to 17.000 mc.
- (5) Record the signal level on the ME-30B/U.

(6) Disconnect the AN/GRM-50 from the radio set.

(7) Record the noise level of the ME-30B/U.

(8) Divide the signal level ((5) above) by the noise level ((7) above). The resultant signal-to-noise ratio shall be not less than 3.16. For example, if the first reading is 1.2 microvolts and the second reading is 0.2 microvolt, the signal-to-noise ratio is 6.

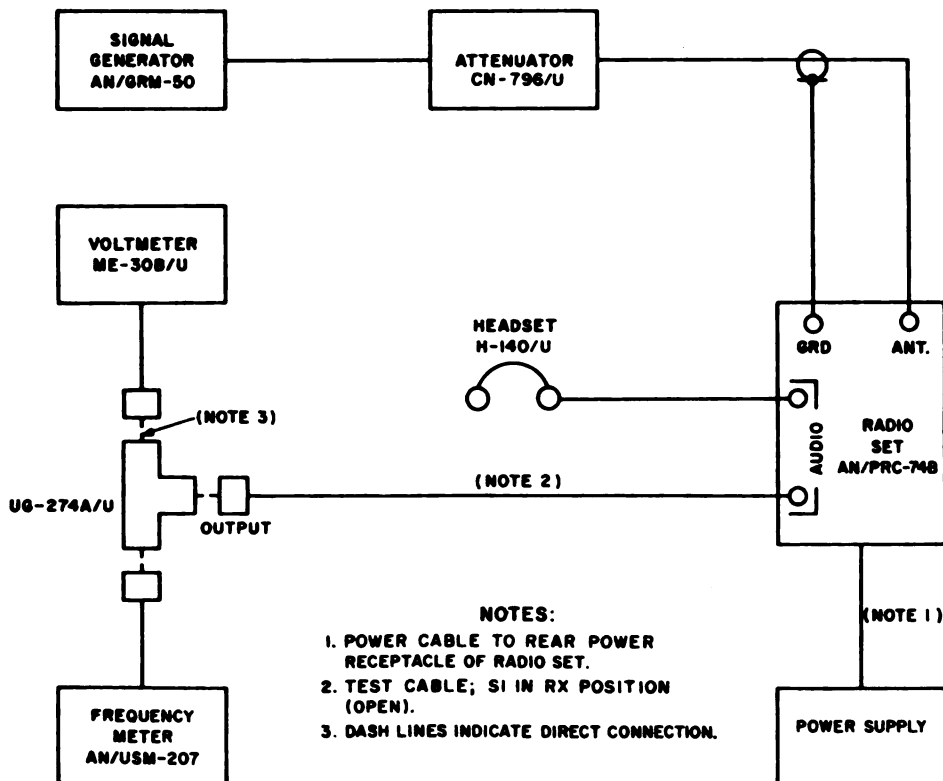
(9) Repeat the procedures in (2) through (8) above for 2.000 mc. The resultant signal-to-noise ratio shall be not less than 3.16.

(10) Disconnect the equipment.

c. Audio Distortion Test.

(1) Connect the equipment as shown in figure 5-3.

(2) Set the power supply to 12 volts.



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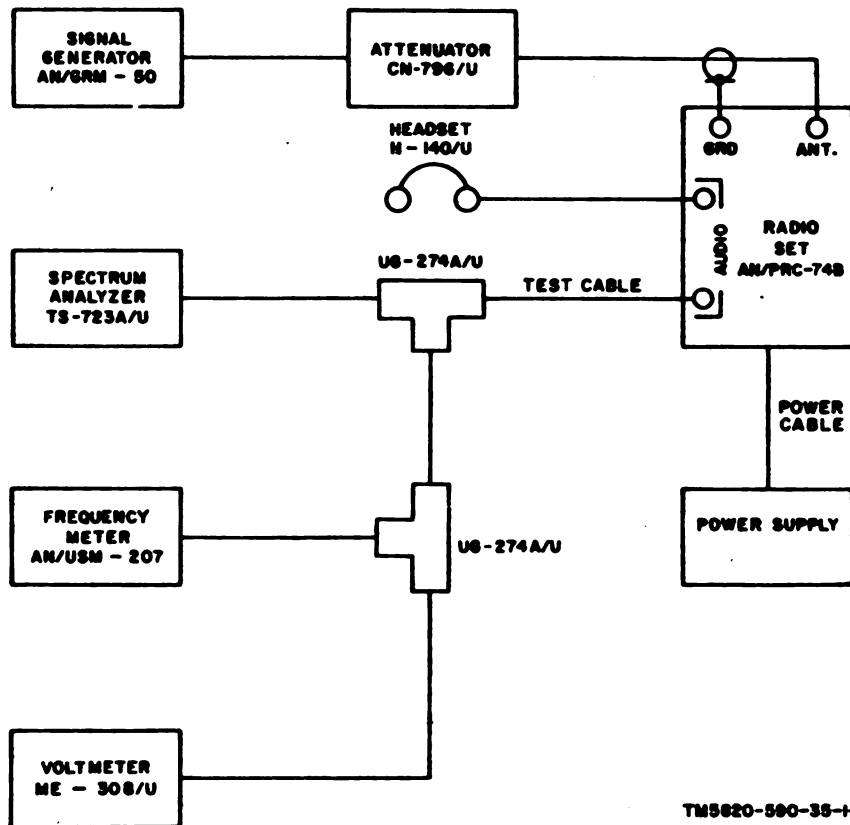
Figure 5-3. Receiver sensitivity and audio output test setup.

- (3) Set the variable attenuator to 0 db.
- (4) Adjust the AN/GRM-50 for an output of 2.001 mc at a level of 50 microvolts.
- (5) On the radio set, set the bandswitches to 2.000 mc.
- (6) If necessary, readjust the output frequency of the AN/GRM-50 to obtain a beat frequency of 1 kc on the AN/USM-207.
- (7) On the radio set, set the R.F. GAIN control for an output indication of 1.414 volts on the ME-30B/U.
- (8) Set the controls on the TS-723A/U to the positions required for it to function as a distortion analyzer.
- (9) With the TS-723A/U functioning as a distortion analyzer, measure the total harmonic distortion. It shall not exceed 10 percent.

(10) Leave the equipment connected for the test in *d* below.

d. Frequency Clarifier.

- (1) Set the power supply to 12 volts.
- (2) Set the variable attenuator to 20 db.
- (3) Adjust the AN/GRM-50 for an output of 2.007 mc at a level of 7 microvolts.
- (4) On the radio set, set the bandswitches to 2.000 mc, and turn the CLARIFY-PUSH TO CALIBRATE control to midposition.
- (5) On the radio set, adjust the PEAK NOISE, ANT LOAD, and ANT TUNE controls for maximum noise in the headset by following the receive mode operating instruction in TM 11-5820-590-12-1.
- (6) If necessary, readjust the output fre-



TM5820-590-35-1-182

Figure 5-3. Audio distortion, frequency clarifier, R. F. GAIN control, and bandpass test setup.

quency of the AN/GRM-50 to obtain a beat frequency of 700 cps, as observed on the AN/USM-207.

(7) On the radio set, rotate the CLARIFY-PUSH TO TEST control fully clockwise and then counterclockwise (do not push in on the CLARIFY-PUSH TO TEST control). Check to see that the frequency indicated by the AN/USM-207 varies between less than 500 cps and greater than 900 cps.

(8) Leave the equipment connected for the test in *e* below.

e. R.F. GAIN Control.

(1) Set the power supply to 12 volts.

(2) Set the variable attenuator to 20 db.

(3) Adjust the AN/GRM-50 for an output of 2.001 mc at a level of 5 microvolts.

(4) On the radio set, set the band-switches to 2.000 mc, and set the R.F. GAIN control fully clockwise.

(5) If necessary, readjust the output frequency of the AN/GRM-50 to obtain a 1-kc beat frequency on the AN/USM-207.

(6) Record the audio output level indicated on the ME-30B/U.

(7) Set the output level of the AN/GRM-50 to 0.5 volt.

(8) On the radio set, reduce the R.F. GAIN control until the audio output level on the ME-30B/U is the same as that recorded in (6) above.

(9) Set the variable attenuator to 0 db.

(10) Set the output level of the AN/GRM-50 to 1.0 volt.

(11) On the radio set, turn the R.F. GAIN control fully clockwise.

(12) Check to see that the audio output level on the ME30B/U is not less than 0.707 volt.

(13) Leave the equipment connected for the test in *f* below.

f. Bandpass.

(1) Set the power supply to 12 volts.

(2) Set the variable attenuator to 0 db.

(3) Adjust the AN/GRM-50 for an output of 2.001 mc at a level of 50 microvolts.

(4) On the radio set, set the band-switches to 2.000 mc.

(5) If necessary, readjust the output frequency of the AN/GRM-50 to obtain a beat frequency of 1 kc on the AN/USM-207.

(6) On the radio set, adjust the R.F. GAIN control until the audio output level on the ME-30B/U is 1.0 volt.

(7) Slowly increase the frequency output of the AN/GRM-50 until the point of maximum audio output is found, as observed on the ME-30B/U.

Note. If the needle on the ME-30B/U goes off scale, turn the range selector switch to the next higher scale.

(8) Record the frequency obtained in (7) above, as measured on the AN/USM-207.

(9) On the radio set, adjust the R.F. GAIN control for an audio output level indication of 1.414 on the ME-30B/U, at the frequency recorded in (8) above.

(10) Decrease the frequency output of the AN/GRM-50 until the audio output level on the ME-30B/U is 1.0 volt (3-db point).

(11) Check to see that the frequency indication on the AN/USM-207 is 300 cps or less.

(12) Return the output of the AN/GRM-50 to the frequency recorded in (8) above.

(13) Increase the frequency of the AN/GRM-50 until the audio output level as indicated by the ME-30B/U is 1.0 volt (3-db point).

(14) Check to see that the frequency indication on the AN/USM-207 is 2,700 cps or more.

(15) Disconnect the equipment.

g. Adjacent Channel Rejection.

(1) Connect the equipment as shown in figure 5-4.

(2) Set the power supply to 12 volts.

(3) Set the variable attenuator to 0 db.

(4) On the radio set, set the band-switches to 2.000 mc.

(5) Adjust the AN/GRM-50 for a beat frequency of 6,500 cps on the AN/USM-207 and a level of 5.0 millivolts on the ME-30B/U.

(6) Check to see that the audio output level indicated on the ME-26B/U does not exceed 1.414 volts.

(7) Lower the frequency output of the AN/GRM-50 until it reaches a frequency 350 cps below the radio set frequency.

(8) With Headset H-140/U, listen for a beat note 350 cps below the radio set frequency.

Notes. At this frequency, the beat note may be inaudible; however, if a beat note is present, the amplitude indicated on the ME-26B/U shall not exceed 1.414 volts.

(9) Disconnect the equipment.

5-5. Transmitter Tests

The tests in a through f below verify that the transmitter portion of the radio set meets the minimum requirements of a new radio set.

Notes. Throughout these tests, whenever the radio set is returned, it is essential that the CLARIFY-PUSH TO CALIBRATE control be adjusted for a zero beat in the headset.

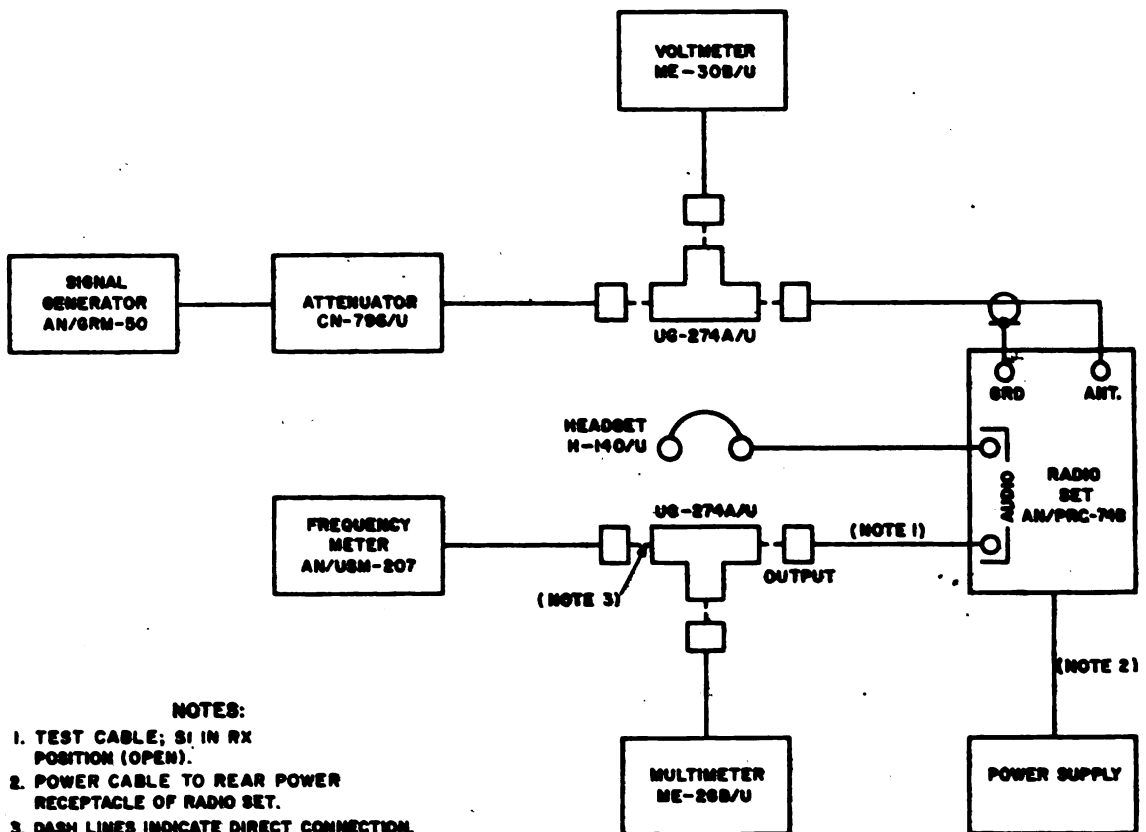
Caution: Do not attempt to tune the transmitter without the DA-75/U or an equivalent 50-ohm dummy load connected to the transmitter output.

a. Power Output.

(1) Connect the equipment as shown in figure 5-5.

Notes. Do not connect the AN/URM-127's and the adder network to the AUDIO input jack at this time.

(2) Set the power supply to 12 volts.



TM 5820-590-35-1-CI-138

Figure 5-4. Adjacent channel rejection test setup.

(3) Select a frequency from the chart in (7) below, and set the radio set bandswitches to the selected frequency.

(4) On the radio set, hold the OFF-ON-TUNE switch on the TUNE position. Adjust the ANT TUNE, ANT LOAD, and PEAK NOISE controls for a maximum peak on the ANT IND meter.

(5) Record the transmitter rf output voltage shown on the ME-26B/U.

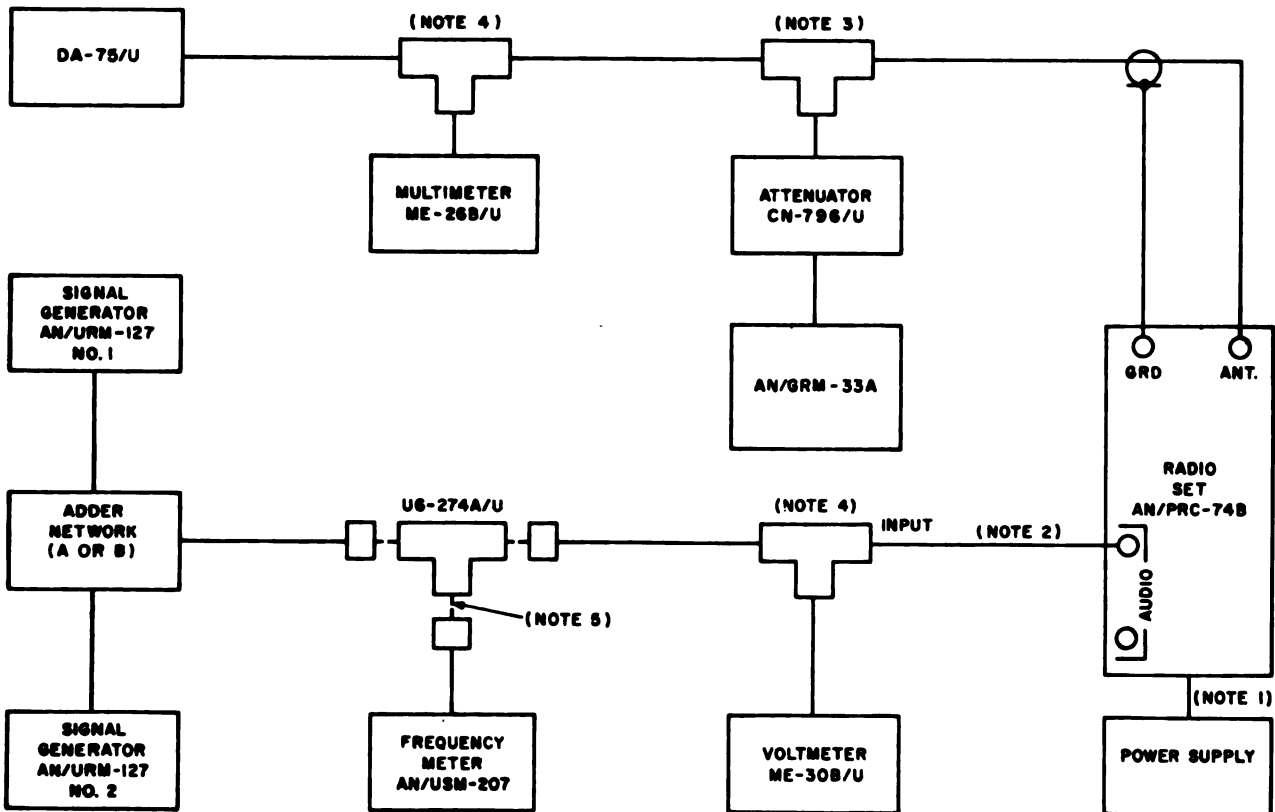
(6) Compute the peak envelope power by squaring the rf output voltage recorded in (5) above and dividing by 50 ohms (the internal resistance of the DA-75/U). Peak envelope power (PEP) = (rf voltage)²

Example: Assume the ME-26B/U indication is 26 volts; calculate the PEP as follows:

$$\frac{(26)^2}{50} = \frac{676}{50} = 13.4 \text{ watts}$$

(7) Perform the procedures in (4) through (6) above for the remaining frequencies in the chart below.

Test FREQUENCY Kc	Cw PEP Watts	Carrier suppression Db down	Two-tone PEP Watts	Third order intermodulation products Db down	
				Upper	Lower
2111	15 ± 3	≥ 40	15 ± 3	≥ 20	≥ 20
3888	15 ± 3	≥ 40	15 ± 3	≥ 20	≥ 20
4222	15 ± 3	≥ 40	15 ± 3	≥ 20	≥ 20
6777	15 ± 3	≥ 40	15 ± 3	≥ 20	≥ 20
7888	15 ± 3	≥ 40	15 ± 3	≥ 20	≥ 20
11666	15 ± 3	≥ 40	15 ± 3	≥ 20	≥ 20
12444	15 ± 3	≥ 40	15 ± 3	≥ 20	≥ 20
17555	15 ± 3	≥ 40	15 ± 3	≥ 20	≥ 20



- NOTES:
1. POWER CABLE TO REAR POWER RECEPTACLE OF RADIO SET.
 2. TEST CABLE; S1 IN TX POSITION.
 3. US-274 A/U.
 4. PROBE T-CONNECTOR HP-11042A.
 5. DASH LINES INDICATE DIRECT CONNECTION.

TM5820-590-35-1-C1-153

Figure 5-5. Intermodulation distortion, power output, and carrier suppression test setup.

(8) Leave the equipment connected for the test in *b* below.

b. Carrier Suppression.

(1) Tune the AN/GRM-33A to the output frequency of the radio set.

(2) Set the AMPLITUDE SCALE switch to LOG and the IF ATTEN switch to 20DB.

(3) Set the radio set OFF-ON-TUNE switch to TUNE, and adjust the CN-796/U and the AN/GRM-33A INPUT ATTENUATOR and GAIN controls to position the peak of the sideband signal at the 0-db line on the scale.

(4) Set the AN/GRM-33A IF ATTEN switch to 0DB. The suppressed carrier signal shall not exceed the 20-db line (40 db down) (fig. 5-6).

(5) The hum and noise signals shall not exceed the 10-db line (30 db down).

(6) Leave the equipment connected for the test in *c* below.

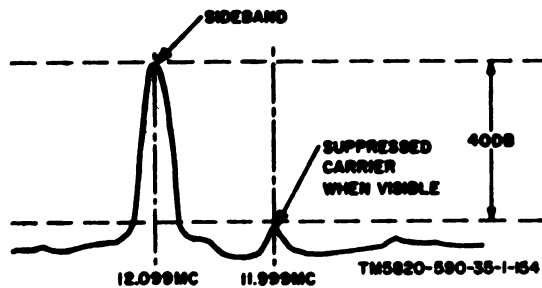


Figure 5-6. Carrier suppression display.

c. Two-Tone Power Output.

(1) Set the power supply to 12 volts.

(2) On the radio set, set the band-switches to 17.999 mc.

(3) Disconnect the AN/URM-127 No. 2 from the adder network (fig. 5-5).

(4) Adjust the AN/URM-127 No. 1 for an output of 1,500 cps (as indicated on the AN/USM-207) at a level of 600 microvolts (as indicated on the ME-30B/U).

(5) Disconnect the AN/URM-127 No. 1 from the adder network.

(6) Connect the AN/URM-127 No. 2 to the adder network.

(7) Adjust the AN/URM-127 No. 2 for an output of 2,100 cps (as indicated on the AN/USM-207) at a level of 600 microvolts (as indicated on the ME-30B/U).

(8) Reconnect the AN/URM-127 No. 1 to the adder network, and connect the adder network to the radio set.

(9) Record the RF output voltage shown on the ME-26B/U.

(10) Compute the PEP as shown in *a*(6) above.

(11) The computed output power shall be between 12 and 18 watts.

(12) Leave the equipment connected for the test in *d* below.

d. Intermodulation Distortion.

(1) Set the power supply to 12 volts.

(2) Set the variable attenuator to 10 db.

(3) On the radio set, set the band-switches to 17.999 mc.

(4) Repeat the procedures in *c*(3) through (8) above.

(5) Tune the AN/GRM-33A to the output frequency of the radio set, and check to see that the difference between the peak amplitudes of the 1,500- and 2,100-cps sidebands does not exceed 4 db.

(6) Refer to figure 5-7, and note the third order intermodulation products. Compare this illustration with the display on the AN/GRM-33A.

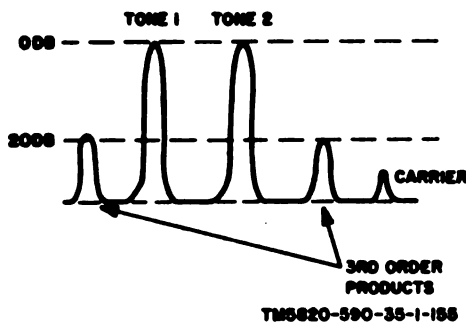
(7) The amplitudes of the third order intermodulation products must be at least 20 db below the peaks of the first order sidebands.

(8) Disconnect the equipment.

e. Sidetone Operation.

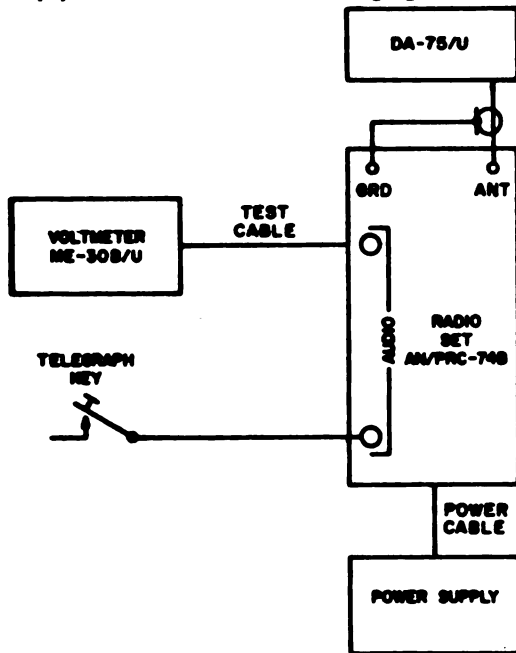
(1) Connect the equipment as shown in figure 5-8.

(2) Set the power supply to 12 volts.



Figures 5-7. Intermodulation distortion display.

- (3) Connect the telegraph key to the AUDIO jack, and key the transmitter.
- (4) Check to see that there is an indication of not less than 0.2 volt on the ME-30B/U.
- (5) Disconnect the test equipment.



Figures 5-8. Sidetone operation.

f. Transmitter Frequency Check.

Notes. Each time a new frequency is selected, the CLARIFY-PUSH TO CALIBRATE control must be adjusted for a zero beat in the headset.

(1) Connect the equipment as shown in figure 5-9.

(2) Set the power supply to 12 volts.

(3) On the radio set, set the band-switches to 2,111 kc, and adjust the ANT TUNE, ANT LOAD, and PEAK NOISE controls for a maximum signal as heard in Headset H-140/U. Follow the receive mode operating instructions in TM 11-5820-590-12-1.

(4) Adjust the AN/URM-127 for an output of 1 kc at a level of 600 microvolts (as measured on the ME-30B/U).

Notes. The accuracy of the radio set frequency readings will depend upon the accuracy of the 1-kc signal from the AN/URM-127. To verify the accuracy of the 1-kc signal, disconnect the AN/USM-207 from the output of the radio set and disconnect the test cable from the output of the AN/URM-127. Reconnect the AN/USM-207 to the output of the AN/URM-127, and check to see that the frequency indicated by the AN/USM-207 is 1 kc. After verification of the 1-kc signal, reconnect the test cable and test equipment as shown in figure 5-9.

(5) On the test cable, set switch S1 to the transmit (TX) position. Check the frequency indication on the AN/USM-207, and compare it with the limits shown in the chart in (6) below.

(6) Repeat the procedures in (3) through (5) above for the remaining frequencies in the chart below.

Transmitter frequency (kc)	Frequency meter readout (cf + rf + deviation)	
	Low limit (kc)	High limit (kc)
2,111	2,111.92	2,112.08
3,222	3,222.92	3,223.08
4,333	4,333.92	4,334.08
5,444	5,444.92	5,445.08
6,555	6,555.92	6,556.08
7,666	7,666.92	7,667.08
8,777	8,777.92	8,778.08
9,888	9,888.92	9,889.08
10,999	10,999.92	11,000.08
11,000	11,000.92	11,001.08
12,000	12,000.92	12,001.08
13,000	13,000.92	13,001.08
14,000	14,000.92	14,001.08
15,000	15,000.92	15,001.08
16,000	16,000.92	16,001.08
17,000	17,000.92	17,001.08
18,000	18,000.92	18,001.08

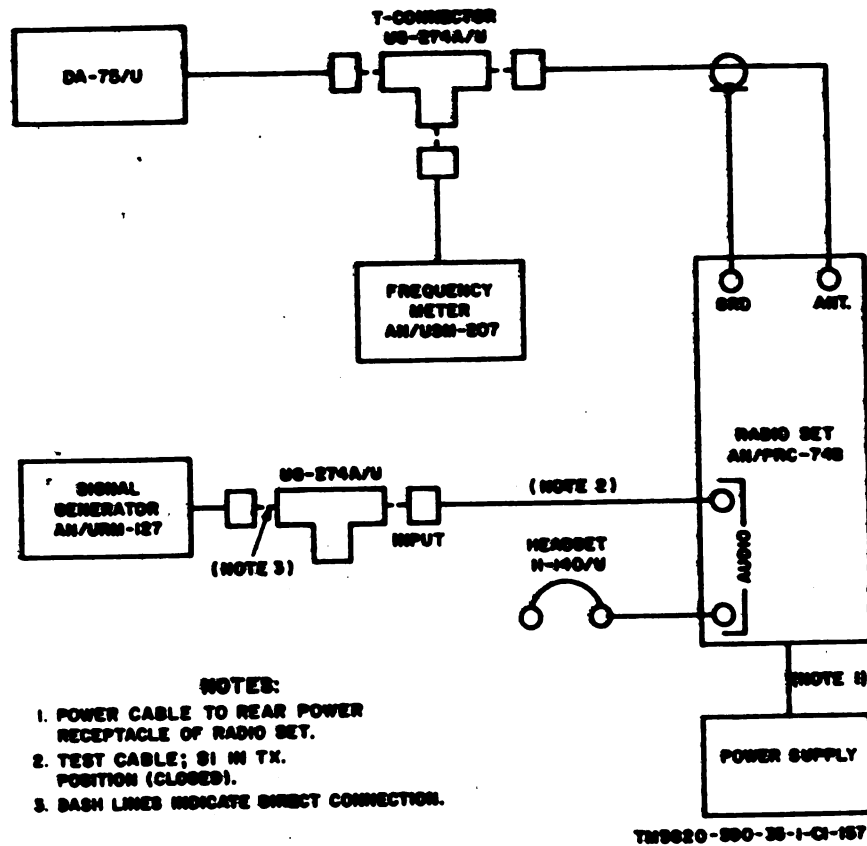
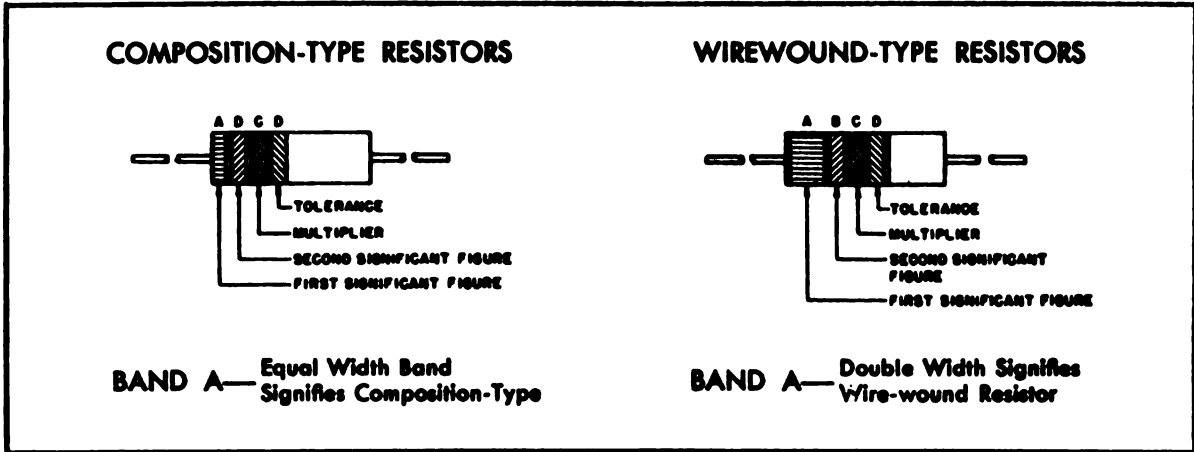


Figure 5-8. Transmitter frequency check.

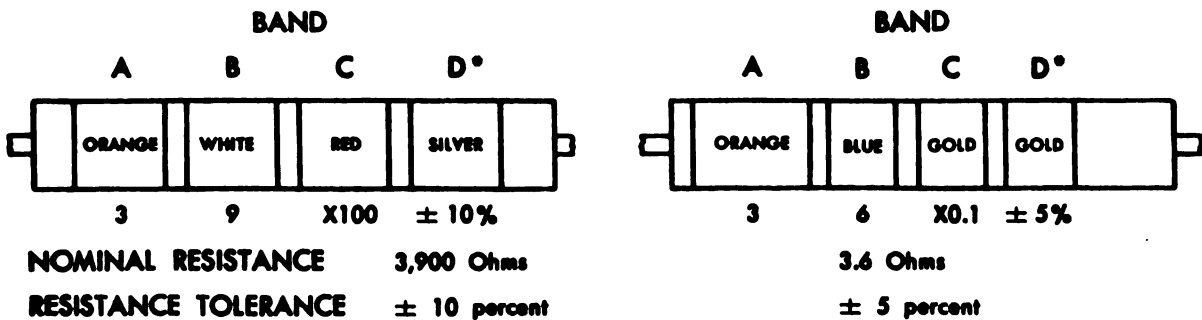
COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS



COLOR CODE TABLE

BAND A		BAND B		BAND C		BAND D*	
COLOR	FIRST SIGNIFICANT FIGURE	COLOR	SECOND SIGNIFICANT FIGURE	COLOR	MULTIPLIER	COLOR	RESISTANCE TOLERANCE (PERCENT)
BLACK	0	BLACK	0	BLACK	1		
BROWN	1	BROWN	1	BROWN	10		
RED	2	RED	2	RED	100		
ORANGE	3	ORANGE	3	ORANGE	1,000		
YELLOW	4	YELLOW	4	YELLOW	10,000	SILVER	± 10
GREEN	5	GREEN	5	GREEN	100,000	GOLD	± 5
BLUE	6	BLUE	6	BLUE	1,000,000		
PURPLE (VIOLET)	7	PURPLE (VIOLET)	7				
GRAY	8	GRAY	8	SILVER	0.01		
WHITE	9	WHITE	9	GOLD	0.1		

EXAMPLES OF COLOR CODING



STD-R2

*If Band D is omitted, the resistor tolerance is ± 20%, and the resistor is not Mil-Std.

Figure 5-10. Color Code Marking for MIL STD Resistors.

CHAPTER 6

SCHEMATIC AND BLOCK DIAGRAMS

6-1. General

This chapter contains the foldout schematic and block diagrams for Radio Set AN/PRC-74B. All text pertaining to the function of the radio set is in chapter 1.

6-2. Troubleshooting Data

The following information will aid the repairman in the location of the correct schematic diagrams and parts locations.

a. Frequency Synthesizer Module.	Figure		
(1) Block diagram		6-6	
(2) Schematic diagram		6-7	
(3) Bottom view		3-3	
(4) Bottom view, circuit boards removed ..		3-4	
(5) Top view, circuit board A5 removed ..		3-5	
(6) Switch component boards		3-6	
(7) Top view		3-32	
(8) Exploded view		3-24	
(9) Switch disassembly		3-25	
(10) Troubleshooting test setup		3-2	
(11) Alignment test setup		3-33	
(12) RF voltage levels		3-31	
b. RF Module.	Figure		
(1) Block diagram		1-1	
(2) Schematic diagram		3-3	
(3) Top view		3-9	
(4) Left-hand view		3-10	
(5) Right-hand view		3-11	
(6) Bottom view		3-35	
(7) Exploded view		3-26	
(8) Troubleshooting test setup		3-3	
(9) Alignment test setup		3-34	
c. IF Audio Module.	Figure		
(1) Block diagram		6-9	
(2) Schematic diagram		6-10	
(3) Front view, component boards removed		3-13	
(4) Rear view, component boards removed		3-13	
(5) Exploded view		3-27	
(6) Test setup		3-12	
d. Power Amplifier Module.	Figure		
(1) Schematic diagram		6-11	
(2) Oblique view		3-17	
(3) Right-hand side		3-18	
(4) Right side, component board removed		3-19	
(5) Left-hand side		3-20	
(6) Exploded view		3-29	
(7) Test setup		3-16	
e. Frequency Generator Module.	Figure		
(1) Schematic diagram		6-12	
(2) Rear view		3-15	
(3) Front view		3-38	
(4) Exploded view		3-28	
(5) Test setup		3-14	
f. Power Supply Module.	Figure		
(1) Schematic diagram		6-13	
(2) Front view		3-22	
(3) Rear view		3-28	
(4) Exploded view		3-30	
(5) Test setup		3-21	
g. Gain Control Circuits.	Figure		
(1) Schematic diagram		6-14	
(2) Circuit board TB208		2-6	
h. Power Supply PP-4514/PRC-74.	Figure		
(1) Schematic diagram		6-15	
(2) Front panel		2-7	
(3) Power supply module		2-8	
(4) Battery charger module		2-9	
(5) Case		2-10	
i. Radio Set.	Figure		
(1) System interconnection diagram		6-1	
(2) Operational modes, block diagram		6-2	
(3) Receive function, block diagram		6-3	
(4) Transmit function, block diagram		6-4	
(5) Power source, block diagram		6-5	
(6) Radio set bottom view, carrier case removed		2-1	
(7) Radio set, top view		2-3	
(8) Radio set, modules removed		2-11	
(9) Radio set front panel, exploded view ..		2-12	
(10) Radio set receive test		4-1	
(11) Radio set transmit test		4-2	
(12) Radio set, receive and transmit mode test setup		2-2	
(13) IF and frequency generator fault isolation test setup		2-4	
(14) Transmit mode fault isolation test setup		2-5	

APPENDIX A

REFERENCES

Following is a list of applicable references that should be available to the DS, GS, and depot Maintenance personnel for Radio Set AN/PRC-74B.

DA Pam 25-30.....	Consolidated Index of Army Publications and Blank Forms.
DA Pam 738-750	The Army Maintenance Management System (TAMMS).
TB SIG 355-1	Depot Inspection Standard for Repaired Signal Equipment.
TB SIG 355-2	Depot Inspection Standard for Refinishing Repaired Signal Equipment.
TB SIG 355-3	Depot Inspection Standard for Moisture and Fungus Resistant Treatment.
TM 11-5097	Spectrum Analyzers TS-723A/U, TS-723B/U, TS-723C/U, and TS-723D/U.
TM 11-5551D	R.F. Signal Generator Set AN/URM-25D.
TM 11-5820-523-12	Organizational Maintenance Manual: Test Sets, Radio AN/GRM-33A and AN/GRM-33C.
TM 11-5820-590-12-1	Organizational Maintenance Manual: Radio Set AN/PRC-74B.
TM 11-5835-224-12	Organizational Maintenance Manual: Coder-Burst Transmission Group AN/GRA-71.
TM 11-6625-200-15	Operator's, Organizational DS, GS, and Depot Maintenance Manual: Multimeters ME-26A/U, ME-26B/U, ME-26C/U, and ME-26D/U.
TM 11-6625-320-12	Operator's and Organizational Maintenance Manual: Voltmeter, Meter ME-30A/U and Voltmeters, Electronic ME-30B/U, MeE-C/U, and ME-30E/U.
TM 11-6625-366-15	Organizational, DS, GS, and Depot Maintenance Manual: Multimeter TS-325B/U.
TM 11-6625-524-14	Operator's, Organizational and Field Maintenance Manual: Voltmeter, Electronic AN/URM-145.
TM 11-6625-573-15	Operator's, Organizational, DS, GS, and Depot Maintenance Manual: Signal Generator AN/GRM-50.
TM 11-6625-700-10	Operator's Manual: Digital Readout, Electronic Counter AN/USM-207.

APPENDIX B

DIRECT SUPPORT, GENERAL SUPPORT AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS

Section I. INTRODUCTION

B-1. Scope

This appendix lists repair parts and special tools required for performance of direct support, general support, and depot maintenance of the AN/PRC-74B and AN/PRC-74C.

B-2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending numerical sequence, with the parts in each group listed in figure and item number sequence.

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

c. Section IV. National Stock Number and Part Number Index. A list, in ascending numerical sequence, of all National stock numbers appearing in the listing, followed by a list, in alphanumeric sequence, of all part numbers appearing in the listing. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

B-3. Explanation of Columns

The following provides an explanation of columns found in the tabular listings:

a. Illustration. This column is divided as follows:

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

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

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

(1) *Source code.* Source codes are assigned to support items to 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:

<i>Code</i>	<i>Definition</i>
PA—	Item procured and stocked for anticipated or known usage.
PB—	Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply systems.
PD—	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
AF—	Item to be assembled at direct support maintenance level.
AH—	Item to be assembled at general support maintenance level.
AD—	Item to be assembled at depot maintenance level.
XA—	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB—	Item is not procured or stocked. If not available through salvage, requisition.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source-coded above, except those coded

XA, XD, and aircraft support items as restricted by AR 700-42.

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

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

<i>Code</i>	<i>Application/Explanation</i>
C	Crew or operator maintenance performed within organizational maintenance.
O	Support item is removed, replaced, used at the organizational level.
F	Support item is removed, replaced, used at the direct support level.
H	Support item is removed, replaced, used at the general support level.
D	Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.

NOTE

Codes "I" and "F" will be considered the same by direct support units.

(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:

<i>Code</i>	<i>Application/Explanation</i>
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.
H	The lowest maintenance level capable of complete repair of the support item is the general 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 code is entered in the fifth position of the Uniform SMR Code format as follows:

<i>Recoverability codes</i>	<i>Definition</i>
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
F	Reparable item. When uneconomically repairable, condemn and dispose at the direct support level.
H	Reparable item. When uneconomically repairable, condemn and dispose at the general 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.* Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

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 repair part 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 708-42 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 unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

B-4. Special Information

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

<i>Code</i>	<i>Used on</i>
CNY	AN/PRC-74B
ASY	AN/PRC-74C

b. Detailed assembly instructions for items source coded to be assembled are found in TM 11-5820-590-35-1. Assembly components are listed immediately following the item to be assembled.

c. Action change codes indicated in the left-hand margin of the listing page denote the following:

- N—Indicates an added item
- C—Indicates a change in data
- R—Indicates a change in NSN only

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

B-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 repair part 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 repair part belongs.

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

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number noted 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 National stock number or part number. This index is in ascending NSN sequence, followed by a list of part numbers in ascending 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.

B-6. Abbreviations

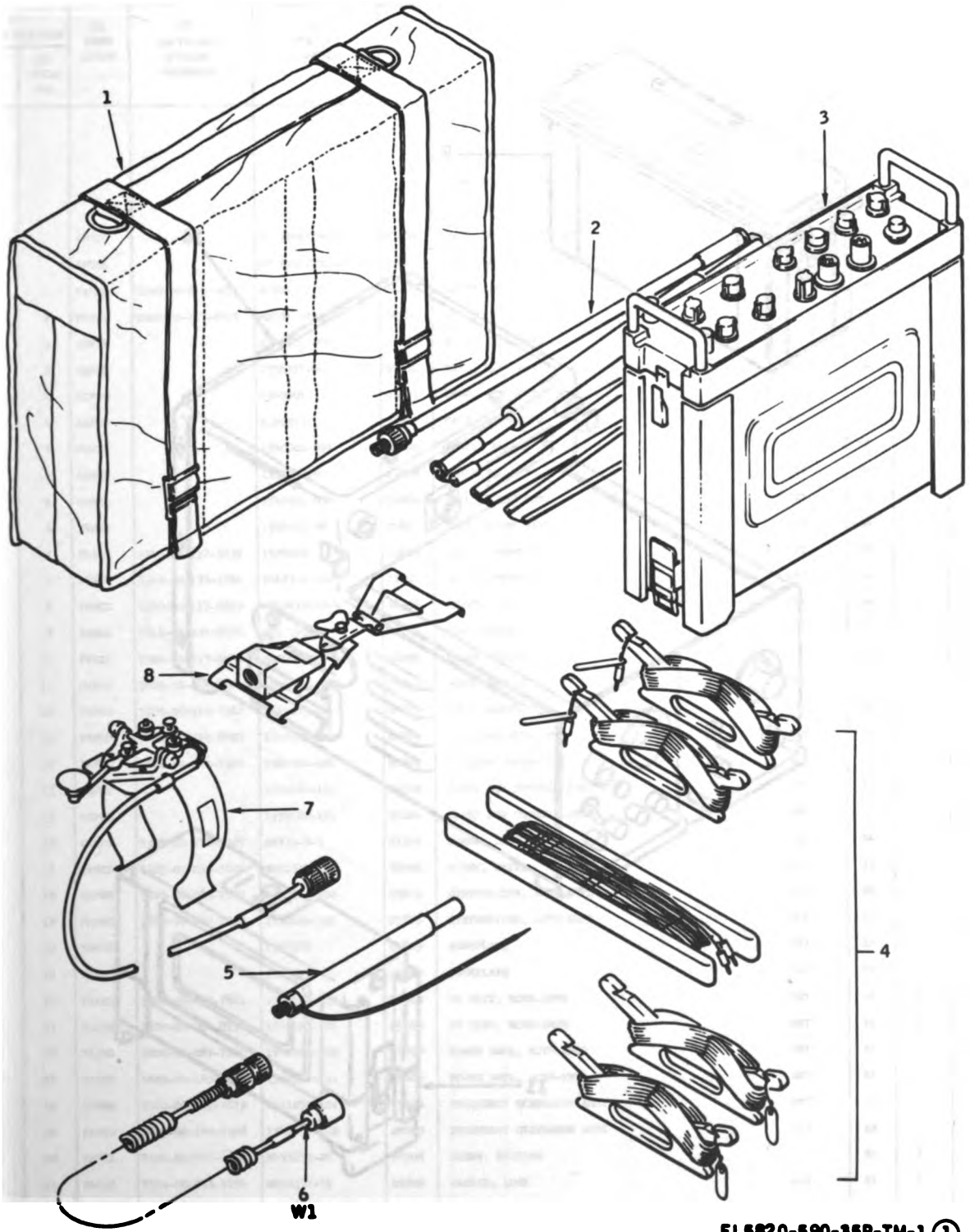
(Not applicable)

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
						GROUP: 00			
						RADIO SET AB/PRC-74B	CST		
						RADIO SET AB/PRC-74C	AST		
B-1	1	PACZZ	8105-00-921-6711	CW-863/PRC-74	05869	BAG, ACCESSORY CARRYING		EA	1
B-1	2	PACZZ	5820-00-935-0032	AS-1887A/PRC-74	05869	ANTENNA		EA	1
B-1	3	PDOOD		RT-794B/PRC-74	05869	RECEIVED-TRANSMITTER, RADIO	CST	EA	1
B-1	3	PDOOD		RT-794C/PRC-74	05869	RECEIVED-TRANSMITTER, RADIO	AST	EA	1
B-1	4	PKYZZ	5820-00-832-8210	ME-911A/PRC-74	05869	KIT, ANTENNA	CST	EA	1
B-1	4	PDOFF	5985-00-432-1485	ME-911B/PRC-74	05869	KIT, ANTENNA	AST	EA	1
B-1	5	PAOPH	5820-00-942-0500	AB-955/PRC-74	05869	BASE ANTENNA, WHIP		EA	1
B-1	6	PACTF	5995-00-930-7016	CX-10239/PRC-74	05869	CABLE ASSY, FOR ELECTRICAL		EA	1
B-1	7	AFOPD		KY-562/U	05869	KEY ASSY, TELEGRAPH		EA	1
B-1	8	PACZZ	5820-00-942-0818	MT-3613/PRC-74	05869	BRACKET, MOUNTING ANTENNA		EA	1
B-1	9	PDJED	5820-00-9,5-0382	CY-6314/PRC-74	05869	BATTERY CASE ASSY	CST	EA	1
B-1	9	PDOHD	6135-00-156-3934	CY-6314A/PRC-74	05869	BATTERY CASE ASSY	AST	EA	1
B-1	10	PDOMD	5820-00-942-0821	PP-4514/PRC-74	05869	POWER SUPPLY UNIVERSAL	CST	EA	1
B-1	10	PDOMD	5820-00-177-4581	PP-4514A/PRC-74	05869	POWER SUPPLY UNIVERSAL	AST	EA	1
B-1	11	PDOMD	5820-00-908-3127	CY-6121/PRC-74	05869	CARRIER, BATTERY RECHARGEABLE	CST	EA	1
B-1	12	PACZZ	5820-00-973-1732	SMB447440	30063	COVER, AUDIO CONNECTOR		EA	1

AMERICAN Form 6196
1 OCT 74

B-1 Ch no 2

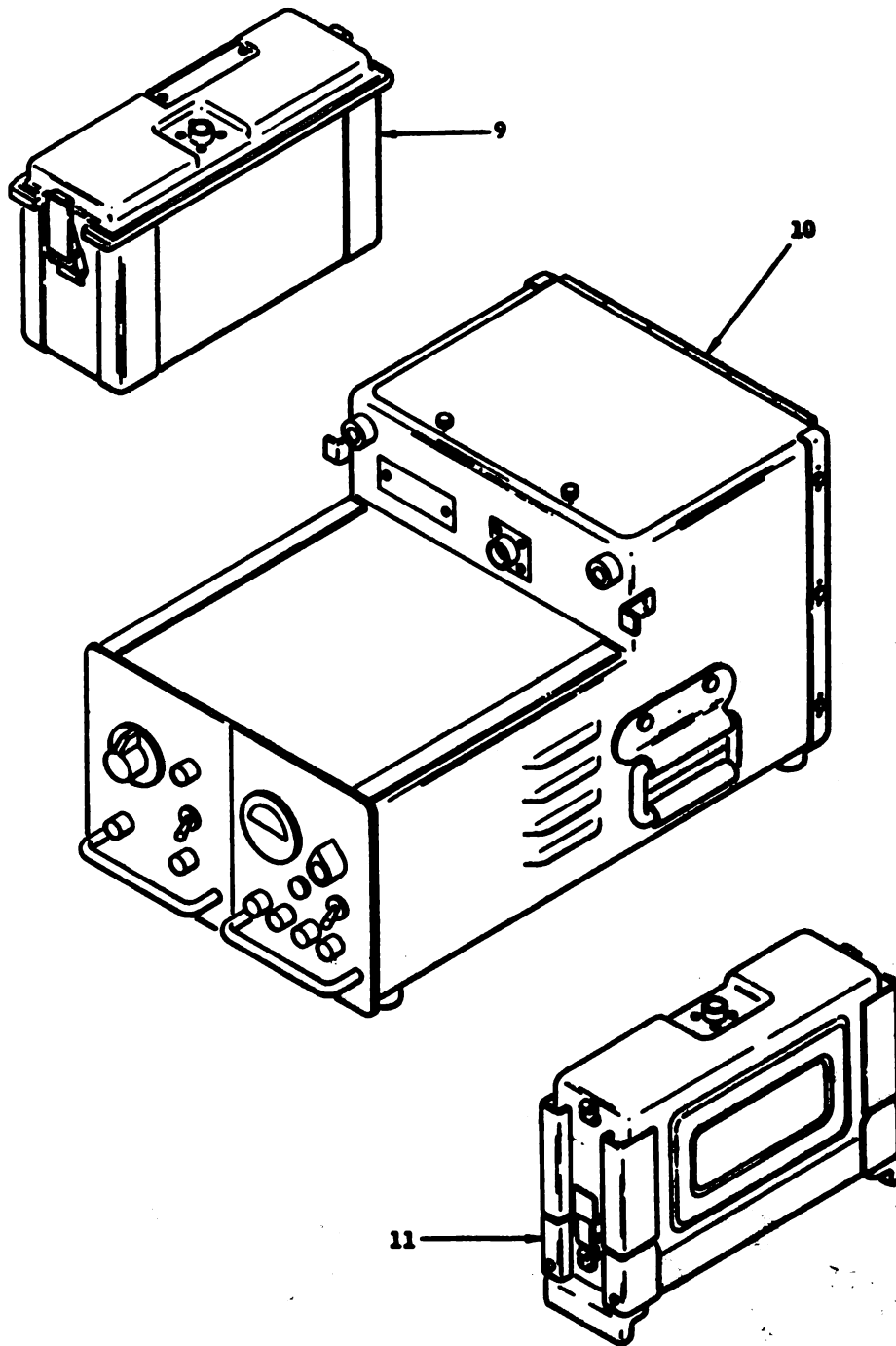


EL5820-590-35P-TM-1 ①

Figure B-1. Radio Set AN/PRC-74B and AN/PRC-74C (Sheet 1 of 2).

Change 2

B-5



EL5820-590-35P-TM-1 (2)

Figure B-1. Radio Set AN/PRC-74B and AN/PRC-74C (Sheet 2 of 2)

B-6 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

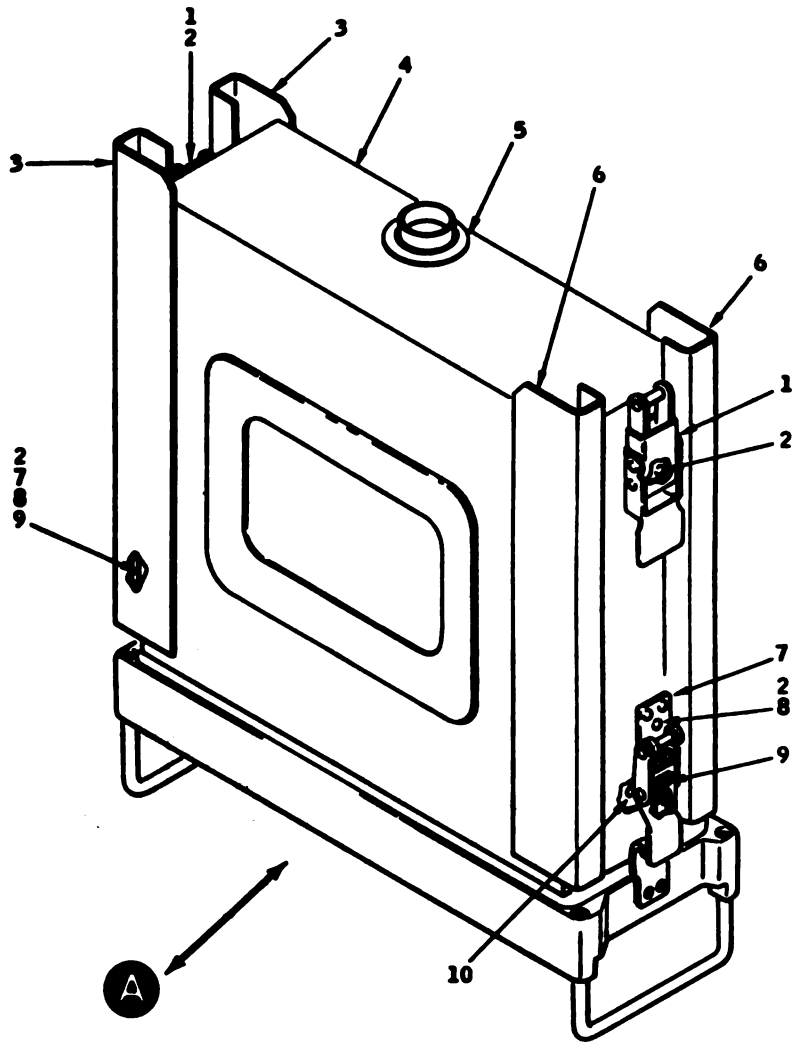
(1) ILLUSTRATION		(2) SABR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
						GROUP: 01		
						RECEIVER-TRANSMITTER, RADIO RT-79AB/PRC-74		
						AND RT-79AC/PRC-74		
						GROUP: 0101 RECEIVER-TRANSMITTER, RADIO		
	B-2	AFOOD		RT-79AB/PRC-74	05869	RECEIVER-TRANSMITTER RADIO	CITY	EA 1
C	B-2	AFOOD		RT-79AC/PRC-74	05869	RECEIVER-TRANSMITTER RADIO	ASY	EA 1
	B-2	1	PAKEX 5340-00-619-0214	SCB83314-2	98003	LATCH, THUMB		EA 2
	B-2	2	PAKEX 5320-00-117-6826	NR20470AD4-4	96906	RIVET, SOLID		EA 10
	B-2	3	KXKXZ	1540901-095	05869	RAIL, LEFT HAND	CITY	EA 2
B	B-2	3	KXKXZ	1596377-98	05869	RAIL, LEFT HAND	ASY	EA 2
	B-2	4	ADPTD	1540901	05869	CASE, RCVR-EXTR	CITY	EA 1
	B-2	4	ADPTD	1596377	05869	CASE, RCVR-EXTR	ASY	EA 1
	B-2	5	KXKXZ	1540901-097	05869	PLATE, AL-ALY	CITY	EA 1
B	B-2	5	KXKXZ	1596377-97	05869	PLATE, AL-ALY	ASY	EA 1
	B-2	6	KXKXZ	1540901-096	05869	RAIL, RIGHT HAND	CITY	EA 2
B	B-2	6	KXKXZ	1596377-96	05869	RAIL, RIGHT HAND	ASY	EA 2
R	B-2	7	PAKEX 5340-00-137-3239	1598626	05869	LATCH, THUMB	CITY	EA 2
R	B-2	7	PAKEX 5340-00-137-3282	51L83-1-1AA	71286	LATCH, THUMB	ASY	EA 2
	B-2	8	PAKEX 5320-00-117-6815	NR20470AD3-4	96906	RIVET, SOLID	CITY	EA 6
	B-2	9	PAKEX 5315-00-934-8536	NR171432	96906	PIN, SPRING	ASY	EA 2
	B-2	10	PAKEX 5320-00-117-6949	NR20426AD4-4	96906	RIVET, SOLID		EA 2
	B-2	11	PAPFD 5820-00-944-8504	1541053-100	05869	POWER SUPPLY	CITY	EA 1
B	B-2	11	PAPFD 5820-00-140-7389	1541053-101	05869	POWER SUPPLY	ASY	EA 1
	B-2	12	PAPFD 5820-00-944-8503	1541054-100	05869	IF AUDIO RCVR-EXTR	CITY	EA 1
C	B-2	12	PAPFD 5820-00-140-7395	1541054-101	05869	IF AUDIO RCVR-EXTR	ASY	EA 1
	B-2	13	APFD	1550161-100	05869	PANEL AND CHASSIS ASSY	CITY	EA 1
	B-2	13	APFD	1550161-101	05869	PANEL AND CHASSIS ASSY	ASY	EA 1
C	B-2	14	PAKEX 5305-00-175-3227	AR535-0-3	81349	SCREW, DRIVE	CITY	EA 2
B	B-2	14	PAKEX 5305-00-253-5607	NR21318-8	96906	SCREW, DRIVE	ASY	EA 2
	B-2	15	PAPFH 5820-00-089-7882	1550162-100	05869	SYNTHESIZER, RCVR-EXTR	CITY	EA 1
	B-2	15	PAPFH 5820-00-140-7397	1550162-101	05869	SYNTHESIZER, RCVR-EXTR	ASY	EA 1
C	B-2	16	KXKXZ	1567588	05869	NAMEPLATE	CITY	EA 1
C	B-2	16	KXKXZ	1596619	05869	NAMEPLATE	ASY	EA 1
	B-2	17	PAPFD 5820-00-089-7881	1550163-100	05869	RP UNIT, RCVR-EXTR	CITY	EA 1
B	B-2	17	PAPFD 5820-00-004-8791	1550163-101	05869	RP UNIT, RCVR-EXTR	ASY	EA 1
	B-2	18	PAPFD 5820-00-089-7880	1550164-100	05869	POWER AMPL, RCVR-EXTR	CITY	EA 1
	B-2	18	PAPFD 5820-00-140-7398	1550164-101	05869	POWER AMPL, RCVR-EXTR	ASY	EA 1
	B-2	19	PAPFD 5820-00-089-7879	1541055-101	05869	FREQUENCY GENERATOR ASSY	CITY	EA 1
	B-2	19	PAPFD 5820-00-140-7396	1541055-102	05869	FREQUENCY GENERATOR ASSY	ASY	EA 1
	B-2	20	PAPFX 5305-00-045-1628	NR35233-28	96906	SCREW, MACHINE		EA 4
	B-2	21	PAPFX 5310-00-043-1754	NR35337-79	96906	NUTS, LOCK	ASY	EA 4
	B-2	22	PAOKX 5820-00-999-8325	1540902	05869	CABLE ASSY, SPCL, ELECTRICAL		EA 1
	B-2	23	PAPFX 5935-00-937-6278	50-311-3196	98291	CONN, PLUG, ELECTRICAL		EA 1

SECTION II. REPAIR PARTS LIST (CONTINUED)

	(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) PSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
	(A) FIG NO.	(B) ITEM NO.								
R	B-2	24	XBPZZ	6145-00-814-1209	RG196A/U	81349	CABLE, RF COAX		EA	1
	B-2	25	PAPZZ	5935-00-963-0124	50-307-3196	98291	CONN PLUG, ELECTRICAL		EA	1
C	B-2	26	PARZZ	5310-00-809-8546	MS27183-8	96906	WASHER, FLAT		EA	5
	B-2	27	PANZZ	5305-00-139-7004	AS256-3A6W	08714	SCREW, SELF-LOCKING	AST	EA	1
C	B-2	28	PJHZZ	5310-00-550-3715	MS35333-70	96906	WASHER, LOCK		EA	2
C	B-2	29	PAH7Z	5305-00-550-5002	MS35233-13	96906	SCREW, MACHINE	CHT	EA	2
C	B-2	29	PARZZ	5305-00-054-5651	MS1957-17	96906	SCREW, MACHINE	AST	EA	2
C	B-2	30	PAHZZ	5310-00-632-6721	AN9604	81349	WASHER, FLAT		EA	1
C	B-2	31	PARZZ	5310-00-723-9676	MS6204L	80205	WASHER, FLAT		EA	1

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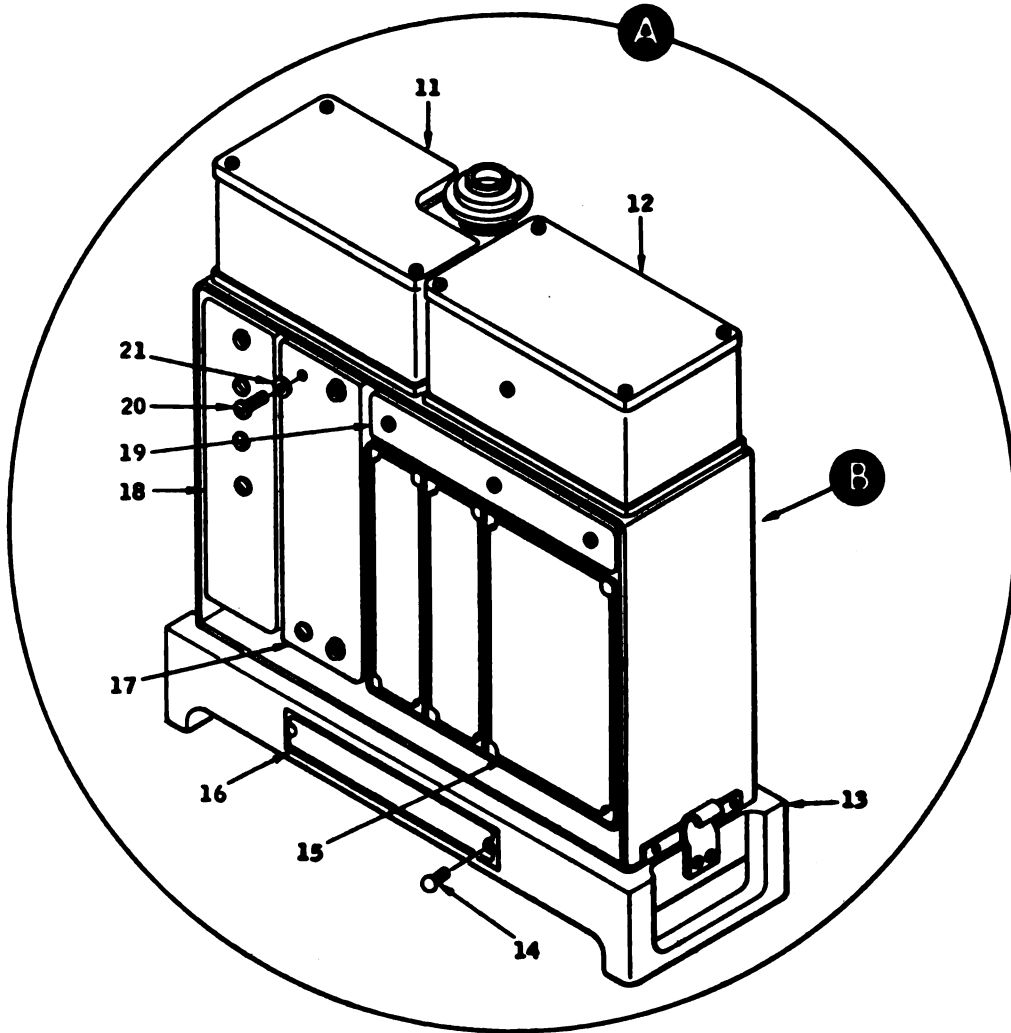
B-8 Change 2



EL6820-600-35P-TM-2 (1)

Figure B-2. Receiver-Transmitter, Radio RT-794B/PRC-74 and RT-794C/PRC-74 (Sheet 1 of 3).

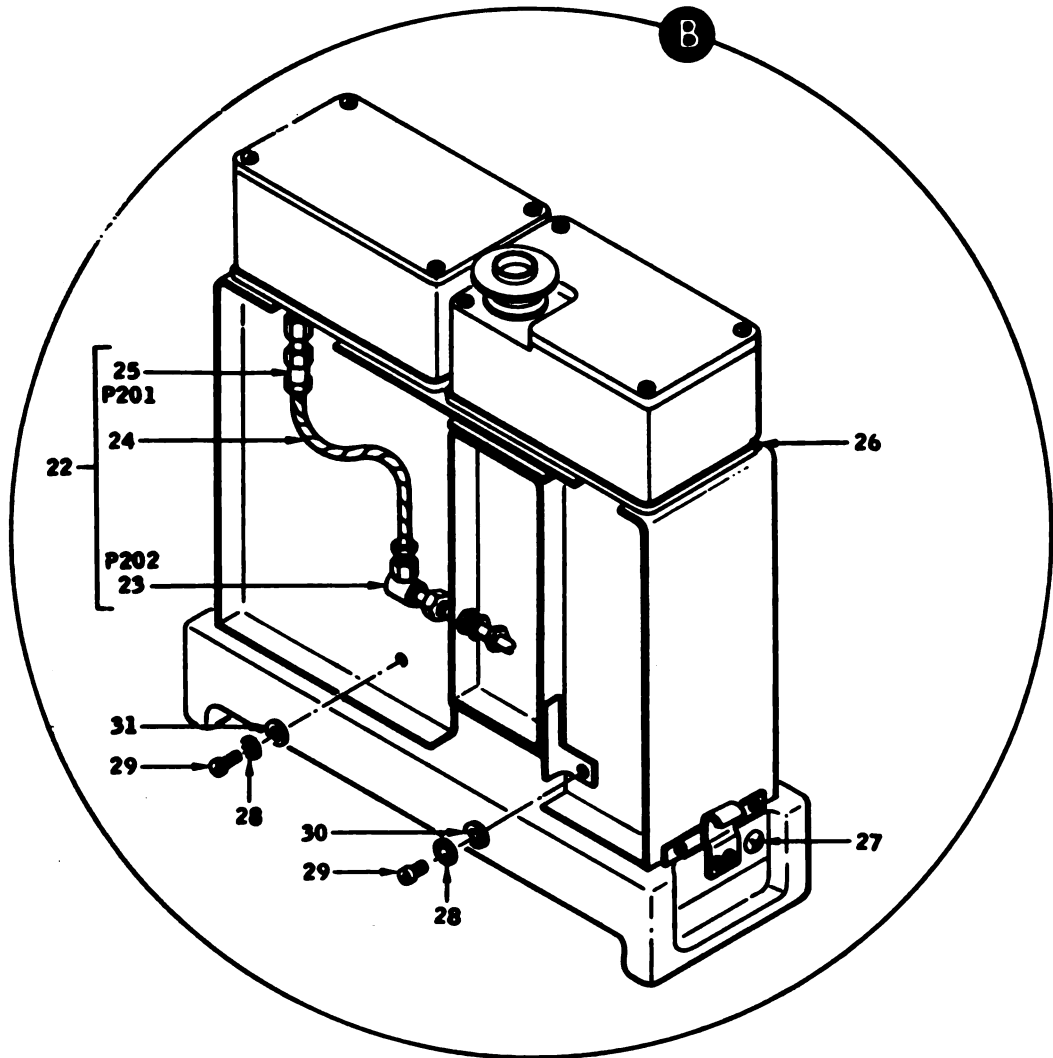
Change 2 8-9



EL5820-590-35P-TM-2 (2)

Figure B-2. Receiver-Transmitter, Radio RT-794B/PRC-74 and
RT-794C/PRC-74 (Sheet 2 of 3).

B-10 Change 2



EL6820-800-35P-TM-2 (3)

Figure B-2. Receiver-Transmitter, Radio RT-794B/PRC-74 and RT-794C/PRC-74 (Sheet 3 of 3).

Change 2 B-11

SECTION II. REPAIR PARTS LIST (CONTINUED)

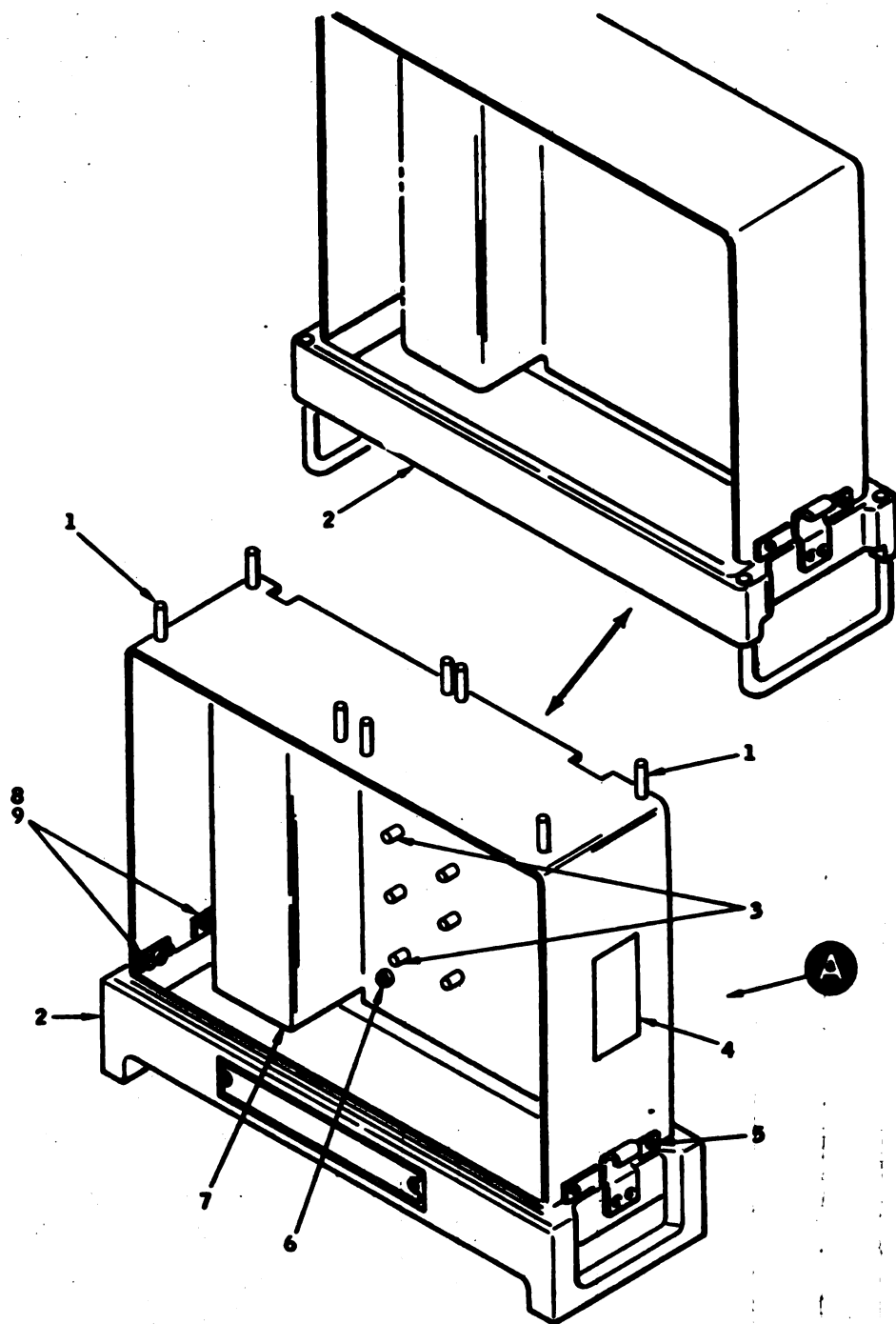
(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) PSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNST OF MEAS	(8) QTY INC IN UNST
(A) FIG NO.	(B) ITEM NO.								
R	B-3	AMPED		1550161-100	05869	PANEL AND CHASSIS ASSY	CHY	EA	1
	B-3	AMPED		1550161-101	05869	PANEL AND CHASSIS ASSY	ASY	EA	1
R	B-3	PARXX	5310-00-993-8511	808632-16	46384	NUT, STANDOFF		EA	8
	B-3	2	AMPED	15599348	05869	FRONT PANEL ASSY	CHY	EA	1
R	B-3	2	AMPED	1596800	05869	FRONT PANEL ASSY	ASY	EA	1
	B-3	3	PARXX	5310-00-978-0133	808440-4	NUT, STANDOFF		EA	10
R	B-3	4	XNEXZ	15592161-007	05869	NAMEPLATE	CHY	EA	1
	B-3	4	XNEXZ	1596480-002	05869	NAMEPLATE	ASY	EA	1
R	B-3	5	PARXX	5305-00-639-0057	AP507063286	SCREW, MACHINE		EA	4
	B-3	6	PARXX	5310-00-839-8767	228C7942-40	NUT, SELF-LOCK, CLINCH		EA	2
R	B-3	7	XNEXZ	1540906-098	05869	PANEL	CHY	EA	1
	B-3	7	XNEXZ	1596202-098	05869	PANEL	ASY	EA	1
R	B-3	8	PARXX	5310-00-957-9002	84810680064M	NUT, SELF-LOCK, CLINCH	CHY	EA	4
	B-3	8	PARXX	5310-00-781-9493	MR21075206	NUT, SELF-LOCK, FLATE	ASY	EA	4
R	B-3	9	PARXX	5320-00-117-6937	MR20426AD3-3	RIVET, SOLID	ASY	EA	8
	B-3	10	PARXX	5310-00-875-2005	MR2036A-632C	NUT, SELF-LOCK		EA	6
R	B-3	11	PARXX	5310-00-531-9514	AP96006	WASHER, FLAT		EA	6
	B-3	12	PARXX	5307-00-967-8040	FR632-6	STUD, CAPTIVE		EA	6
R	B-3	13	PARXX	5305-00-145-2190	FR429-2	SCREW, CAPTIVATED		EA	2
	B-3	14	AMHED		1540907	GAIN CONTROL, RCVB-IDENT	CHY	EA	1
R	B-3	14	AMHED		1596379	GAIN CONTROL, RCVB-IDENT	ASY	EA	1
	B-3	15	PARXX	5310-00-723-9676	84862004L	WASHER, FLAT		EA	4
R	B-3	16	PARXX	5305-00-806-2363	1080-4-4	SCREW, MACHINE		EA	3
	B-3	17	AMHED		1540906	CHASSIS, RCVB-IDENT	CHY	EA	1
R	B-3	17	AMHED		1596202	CHASSIS, RCVB-IDENT	ASY	EA	1
	B-3	18	PARXX	5325-00-903-1512	PS2-632	RETAINER, FASTENER		EA	10
R	B-3	19	PARXX	5940-00-286-2478	4114710	TERMINAL BOARD	ASY	EA	1
	B-3	20	PARXX	5310-00-923-8118	MR33338-135	WASHER, LOCK	ASY	EA	2
R	B-3	21	PARXX	5305-00-487-6354	AP51504-5	SCREW, MACHINE		EA	2
	B-3	22	AMHED		1540906-099	PANEL	CHY	EA	1
R	B-3	22	AMHED		1596208-099	PANEL	ASY	EA	1
	B-3	23	PARXX	5970-00-503-6135	1540905	INSULATOR		EA	4
R	B-3	24	PARXX	5305-00-946-8393	FR429-1	SCREW, CAPTIVATED		EA	7
	B-3	25	PARXX	5940-00-051-5712	120082	TERMINAL STUD		EA	3
R	B-3	26	PARXX	5340-00-955-5388	3-16-4	CLAMP, LOOP		EA	3
	B-3	27	PARXX	5940-00-784-4989	1200823UR	TERMINAL STUD		EA	7
R	B-3	28	PARXX	5305-00-140-4889	FR429-3	SCREW, CAPTIVATED		EA	1
	B-3	29	PARXX	5305-00-543-8782	MR33213-41	SCREW, MACHINE	CHY	EA	2
R	B-3	30	PARXX	5310-00-069-5891	84862008	WASHER, FLAT	ASY	EA	5

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SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-3	31	PAFZZ	5305-00-054-6667	MS51957-42	96906	SCREW, MACHINE	ASY	EA	4
B-3	32	XBNZZ		1540906-097	05069	PANEL	CNY	EA	1
B-3	32	XBNZZ		1596202-097	05069	PANEL	ASY	EA	1
B-3	33	PAWZZ	5820-00-110-3152	1-4-4	95907	CLAMP, LOOP		EA	2
B-3	34	PAWZZ	5305-00-550-5002	MS35233-13	96906	SCREW, MACHINE		EA	1
B-3	35	ANFHD		1559348	05069	FRONT PANEL ASSY	CNY	EA	1
B-3	35	ANFHD		1596200	05069	FRONT PANEL ASSY	ASY	EA	1
B-3	36	PAWZZ	5940-00-949-3096	411H8	75302	BARRIER, TERMINAL	CNY	EA	1
B-3	37	PAWZZ	5340-00-200-3036	1-0-4	95907	CLAMP, LOOP		EA	1

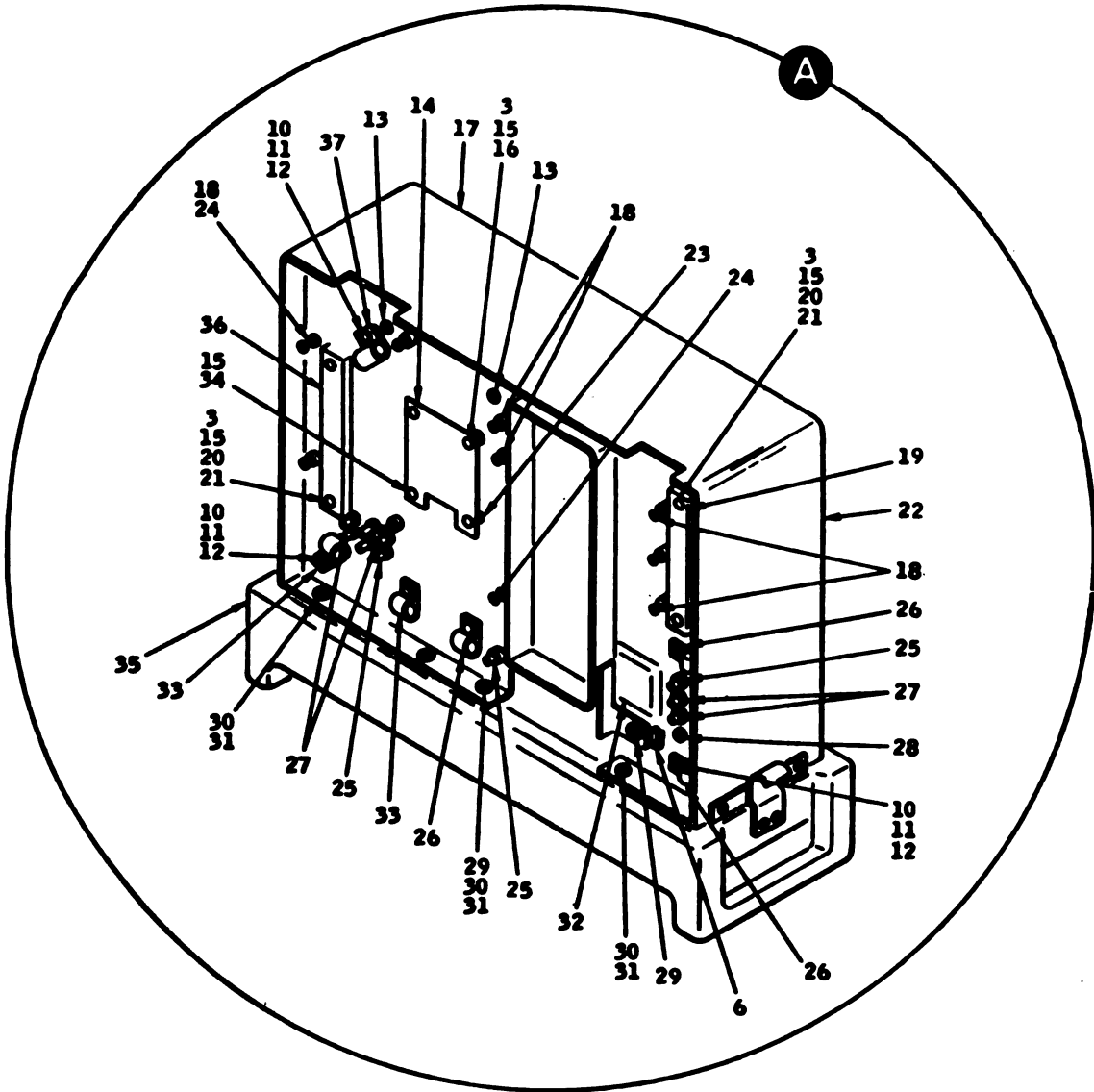


EL5820-880-38P-TM-3 ①

Figure B-3. Radio set, case

(Sheet 1 of 2).

B-14 Change 2



EL8820-800-35P-TM-3 (2)

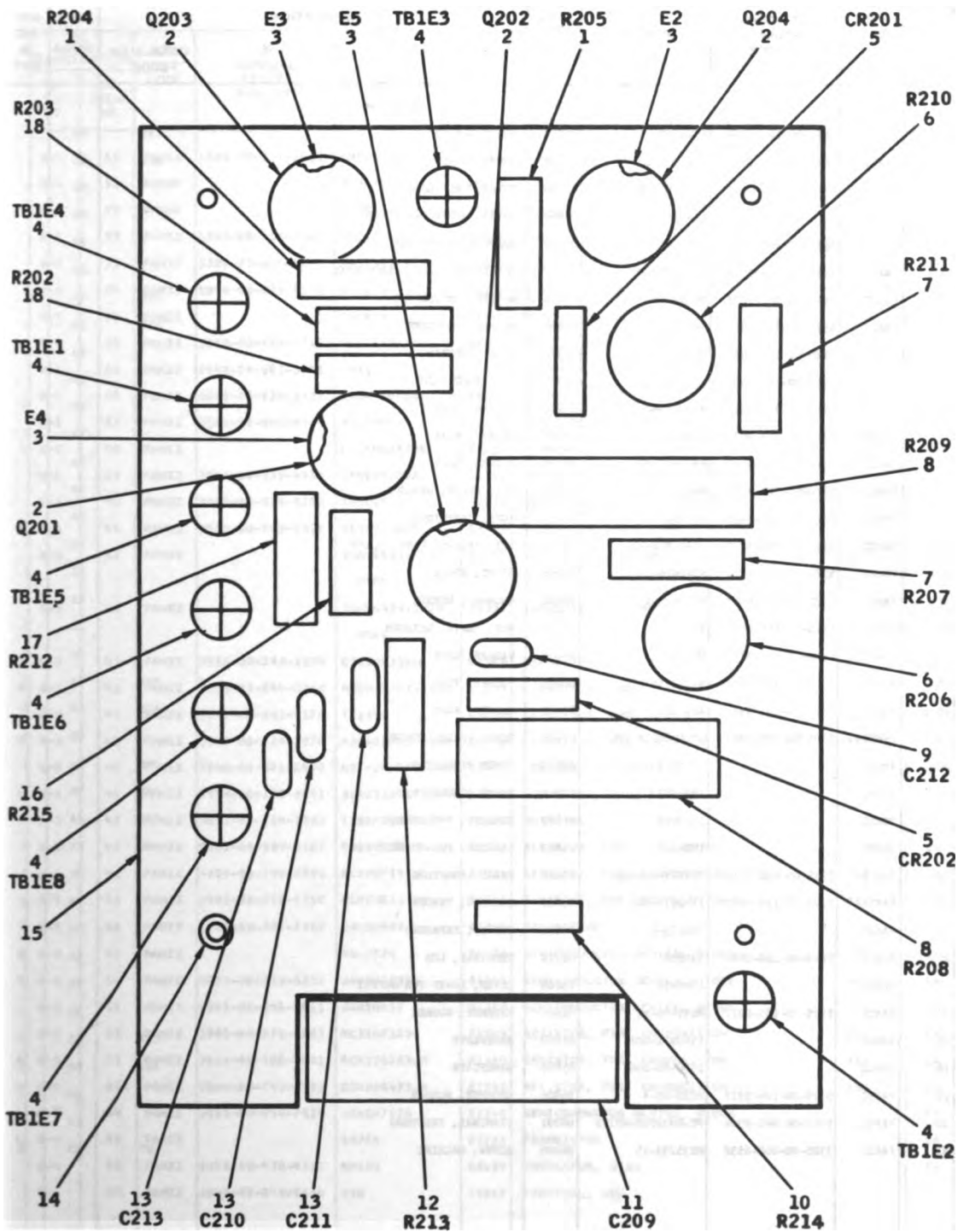
Figure B-3. Radio set, case

(Sheet 2 of 2).

Change 2 B-15

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-4		ANBMD		1540907	05869	GAIN CONTROL, RCVR-XMTR	CNY	EA	1
B-4		ANBMD		1596379	05869	GAIN CONTROL, RCVR-XMTR	ASY	EA	1
B-4	1	PAHZZ	5905-00-682-4097	RC07GF302J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	2
B-4	1	PAHZZ	5905-00-764-2776	RCR07G502JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	2
B-4	2	PAHZZ	5961-00-944-4757	SMB168-2	04713	TRANSISTOR	CNY	EA	4
C B-4	2	PAHZZ	5961-00-257-0606	JAN2M4449	81349	TRANSISTOR	ASY	EA	4
B-4	3	PAHZZ	5961-00-226-1755	10194DAP	07047	INSULATOR, TRANSISTOR		EA	4
B-4	4	XAMZZ		201002	00245	TERMINAL STUD		EA	8
B-4	5	PAHZZ	5961-00-646-4611	JAN1N457	81349	SEMICONDUCTOR DEVICE, DIODE		EA	2
B-4	6	PAHZZ	5905-00-984-3915	3300P1-2J2	00294	RESISTOR, VARIABLE		EA	2
B-4	7	PAHZZ	5905-00-723-5251	RC07GF222J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	2
B-4	7	PAHZZ	5905-00-720-6139	RCR07G222JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	2
B-4	8	PAHZZ	5905-00-139-1724	TM1-4-10KPRMS PCT	96214	RESISTOR, THERMAL		EA	2
B-4	9	PAHZZ	5910-00-945-0006	CD10C331J03	93790	CAPACITOR, FXD, MICA	CNY	EA	1
C B-4	9	PAHZZ	5910-00-036-0064	C18C331J	16546	CAPACITOR, FXD, MICA	ASY	EA	1
B-4	10	PAHZZ	5905-00-686-3038	RC07GF273J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-4	10	PAHZZ	5905-00-754-7092	RCR07G273JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
C B-4	11	PAHZZ	5910-00-000-4163	M26655-2-0042	81349	CAPACITOR, FXD	CNY	EA	1
C B-4	11	PAHZZ	5910-00-050-5170	M39003-01-2261	81349	CAPACITOR, FXD	ASY	EA	1
B-4	12	PAHZZ	5905-00-607-0002	RC07GF223J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-4	12	PAHZZ	5905-00-720-6141	RCR07G223JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
R B-4	13	PAHZZ	5910-00-431-5335	7C023103K0500D	56209	CAPACITOR, FXD		EA	3
B-4	14	XAMZZ		SE53	61957	EYELET		EA	1
B-4	15	PAHZZ	3020-00-945-4310	1540908	05869	BOARD, PRINTED CIRCUIT	CNY	EA	1
B-4	15	XAMZZ	3020-00-139-4000	1596578	05869	BOARD, PRINTED CIRCUIT	ASY	EA	1
B-4	16	PAHZZ	5905-00-686-3369	RC07GF331J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-4	16	PAHZZ	5905-00-720-6151	RCR07G331JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-4	17	PAHZZ	5905-00-601-6462	RC07GF102J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-4	17	PAHZZ	5905-00-734-0004	RCR07G102JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-4	18	PAHZZ	5905-00-683-2246	RC07GF473J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-4	18	PAHZZ	5905-00-776-7212	RCR07G473JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1



EL5820-500-36P-TM-4

Figure B-4. Gain control for receiver-transmitter.

Change 2 B-17

SECTION II. REPAIR PARTS LIST (CONTINUED)

	(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
	(A) FIG NO.	(B) ITEM NO.								
							GROUP: 010101 MODULE			
	B-5		PAFED	5820-00-944-8504	1541053-100	05869	POWER SUPPLY	CRY	EA	1
	B-5		PAFED	5820-00-140-7382	1541053-101	05869	POWER SUPPLY	ASY	EA	1
R	B-5	1	PARKE	5305-00-147-6140	LP57D62834-SPL	03038	SCREW, SELF-LOCKING		EA	3
	B-5	2	PARKE		1540999	05869	COVER, UPPER PWR SUPPLY		EA	1
	B-5	3	PARKE	5935-00-497-5807	1568404	05869	ADAPTER, CONN, SEAL		EA	1
R	B-5	4	PARKE	5935-00-944-9848	17291-7-178	11139	CONNECTOR, PLUG, ELECTRICAL		EA	1
	D-5	5	PARKE	5970-00-044-5873	FR410-51	09046	WASHER, INSULATING	CRY	EA	3
	B-5	5	PARKE	5330-00-827-2820	5608-10	86928	WASHER, SHOULDER	ASY	EA	2
	B-5	6	PARKE	5920-00-243-3681	30107-5	75915	FUSE, CARTRIDGE		EA	1
R	B-5	7	PARKE	5920-00-498-5937	1540965	05869	FUSE BLOCK ASSY		EA	1
	B-5	8	PARKE	5970-00-838-0075	MS1515M4L	80205	WASHER, FLAT		EA	3
	B-5	9	PARKE	5310-00-723-9676	MS20426AD2	80205	WASHER, FLAT		EA	7
	B-5	10	PARKE	5310-00-734-5661	MS35337-78	96906	WASHER, LOCK		EA	3
	B-5	11	PARKE	5310-00-208-3786	MS671C4	80205	NUT, FLAIN, HEXAGON		EA	6
	B-5	12	PARKE	5920-00-142-7421	301002	75915	FUSE, CARTRIDGE		EA	1
	B-5	13	PARKE	5310-00-680-5270	22A27M22-40	72962	NUT, SELF-LOCKING, PLATE		EA	4
	B-5	14	PARKE	5320-00-233-4781	MS20426AD2-2	96906	RIVET, SOLID		EA	8
	B-5	15	PARKE	5325-00-286-6047	MS35489-1	96906	GROMMET, RUBBER		EA	1
	D-5	16	PARKE	5310-00-616-8660	MS671C4	80205	NUT, FLAIN, HEXAGON		EA	6
	B-5	17	PARKE	5310-00-616-3555	MS3533	96906	WASHER, LOCK		EA	2
C	B-5	18	PARKE	5970-00-932-7758	MS1515M4L	80205	WASHER, FLAT	CRY	EA	2
	B-5	18	PARKE	5310-00-531-9511	MS960C6	81349	WASHER, FLAT	ASY	EA	6
R	B-5	19	PARKE	5305-00-998-0347	LP57D62832-SPL	03038	SCREW, SELF-LOCKING		EA	1
	B-5	20	ARRHD		1540961	05869	POWER REGULATOR	CRY	EA	1
	B-5	20	ARRHD		1596385	05869	POWER REGULATOR	ASY	EA	1
	B-5	21	XRRZZ		1540966	05869	CHASSIS, PWR-SUPPLY	CRY	EA	1
	B-5	21	XRRHD		1596571	05869	CHASSIS, PWR-SUPPLY	ASY	EA	1
	B-5	22	PARKE	5945-00-930-0412	BRTX65D938253	09026	RELAY, ARMATURE		EA	1
R	B-5	23	PARKE	3120-00-139-6889	1540917-001	05869	BEARING, THRUST		EA	1
C	B-5	24	PARKE		760173-4	06090	TUBING, EXPANDED		EA	8
	B-5	25	PARKE	5940-00-168-9692	330838	00779	TERMINAL, LUG		EA	9
	B-5		PARKE		1540958	05869	COVER, LOWER PWR SUPPLY		EA	1
	B-5	2	PARKE	5325-00-185-0017	MS35489-33	96906	GROMMET, RUBBER		EA	1
	B-5	26	XRRZZ		1540911-001	05869	NAMEPLATE	CRY	EA	1
	B-5	26	XRRHD		1596480-006	05869	NAMEPLATE	ASY	EA	1
	B-5	29	PARKE	5325-00-174-5317	MS35489-4	96906	GROMMET, RUBBER		EA	1
R	B-5	30	PARKE	5940-00-680-9964	FT-8M32TUR-WHITE	98291	TERMINAL, FEEDTHRU		EA	1
	B-5	31	PARKE	5305-00-068-6532	MS35233-15	96906	SCREW, MACHINE	CRY	EA	3

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B-18 Change 2

SECTION N REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT	
(A) FIG NO.	(B) ITEM NO.									
B-5	31	PANZZ	5305-00-151-2001	AN507-440R6	81349	SCREW, MACHINE	ASY	EA	3	
B-5	32	AN000		1540967	05069	PWR XPMR AND RECTIFIER	CNY	EA	1	
B-5	32	AN000		1596362	85069	PWR XPMR AND RECTIFIER	ASY	EA	1	
B-5	33	PANZZ	5305-00-550-5002	MS35233-13	96906	SCREW, MACHINE	CNY	EA	4	
B-5	33	PANZZ	5305-00-054-5647	MS1957-13	96906	SCREW, MACHINE	ASY	EA	4	
B-5	34	PANZZ	5940-00-820-4549	X20510	71279	TERMINAL, STUD	CNY	EA	1	
B-5	34	PANZZ		130074	88245	TERMINAL STUD	ASY	EA	1	
B-5	35	PANZZ	5310-00-550-3715	MS35333-70	96906	WASHER, LOCK		EA	2	
B-5	36	PANZZ	5940-00-663-5749	1430	71785	TERMINAL, LUG	CNY	EA	1	
B-5	36	PANZZ	5940-00-636-5429	2404-06-01	78189	TERMINAL, LUG	ASY	EA	1	
B-5	37	PANZZ	5905-00-940-6400	501000-1	80530	RESISTOR, DC, NON-LINEAR		EA	1	
C	B-5	38	PANZZ	PT-SM020TUR	90291	TERMINAL, FEEDTHRU		EA	6	
B-5	39	PANZZ	5961-00-939-4263	JAN1N4370A	81349	SEMICONDUCTOR DEVICE, DIODE	CNY	EA	1	
B-5	40	PANZZ	5905-00-933-9702	501000-2	80530	RESISTOR, D.C. NON-LINEAR		EA	1	
A	B-5	41	PANZZ	5970-00-829-2339	995057-029	09795	INSULATION, SLEEVING	CNY	EA	4
B-5	41	PANZZ		20AM64201THIN PTFE	75037	INSULATION, SLEEVING	ASY	EA	1	
B-5	42	PANZZ		20AM64201THIN PTFE	75037	INSULATION, SLEEVING	ASY	EA	1	
B-5	43	PANZZ	5910-00-702-1974	CS130E336M	81349	CAPACITOR, FXD, ELEC	CNY	EA	1	
C	B-5	43	PANZZ	5910-00-044-6140	M39003-01-2052	81349	CAPACITOR, FXD, ELEC	ASY	EA	1
B-5	44	PANZZ	5910-00-093-5179	TE1305	56289	CAPACITOR, FXD, ELEC	CNY	EA	1	
C	B-5	44	PANZZ	5910-00-024-3976	M39003-01-2300	81349	CAPACITOR, FXD, ELEC	ASY	EA	1
B-5	45	PANZZ	5940-00-921-6450	RST-SM31TUR-C01	90291	TERMINAL, STANDOFF		EA	6	
B	B-5	46	PANZZ	5910-00-109-0653	SC023104X050003	56289	CAPACITOR, FXD, CERAMIC		EA	1
B-5	47	PANZZ	5961-00-714-1386	TX02P032-037	90970	HEATSINK		EA	1	
B-5	48	PANZZ	5905-00-989-9362	RM69WR56	81349	RESISTOR, FXD, WIRE WOUND		EA	1	
B-5	49	PANZZ	5905-00-190-8809	RC206P101J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1	
B-5	49	PANZZ	5905-00-726-9750	RCR200101JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1	
B-5	50	PANZZ	5961-00-837-7262	JAN2N4697	81349	TRANSISTOR		EA	1	
C	B-5	51	PANZZ	89-0574	81483	SEMICONDUCTOR DEVICE, DIODE	CNY	EA	1	
C	B-5	51	PANZZ	5961-00-752-6116	JAN1N2993B	81349	SEMICONDUCTOR DEVICE, DIODE	ASY	EA	1
B-5	52	PANZZ	5961-00-046-0611	JAN1N457	81349	SEMICONDUCTOR DEVICE, DIODE		EA	2	
B-5	53	PANZZ	5905-00-379-2661	RC326P102J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1	
B	B-5	53	PANZZ	5905-00-506-0051	RCR326102JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
M	B-5	53A	PANZZ	5905-00-141-0595	RCR206470JS	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-5	54	PANZZ	5961-00-090-7034	JAN1N757A	81349	SEMICONDUCTOR DEVICE, DIODE		EA	1	
C	B-5	55	PANZZ		62764	TRANSISTOR		EA	1	
B-5	56	PANZZ	5970-00-430-4731	RM100	80209	INSULATOR, DISC		EA	1	
B-5	57	PANZZ	5940-00-049-0394	520	79963	TERMINAL, LMB		EA	1	

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-5	58	PAHZZ	5310-00-812-4292	MS671C10	88205	NUT, PLAIN, HEXAGON		EA	1
B-5	59	PAHZZ	5310-00-833-8128	MS35338-138	96906	WASHER, LOCK	CNY	EA	1
B-5	59	PAHZZ	5310-00-854-1831	MS35338-81	96906	WASHER, LOCK	ASY	EA	1
B-5	60	PAHZZ	5310-00-915-2513	5607-28	86928	WASHER, SHOULDER		EA	1
B-5	61	PAHZZ	5310-00-934-9761	MS35649-264	96906	NUT, PLAIN, HEXAGON	CNY	EA	4
B-5	62	PAHZZ	5970-00-763-1971	5608-15	86928	WASHER, SHOULDER		EA	4
B-5	63	PAHZZ	5305-00-854-6650	MS1957-26	96906	SCREW, MACHINE	CNY	EA	4
B-5	63	PAHZZ	5305-00-854-6651	MS1957-27	96906	SCREW, MACHINE	ASY	EA	4
B-5	64	PAHZZ	5310-00-638-9857	AW960C6L	81349	WASHER, FLAT	CNY	EA	4
B-5	65	PAHZZ	5961-00-104-3554	SDM304	88289	INSULATOR, PLATE		EA	2
B-5	66	PAHZZ	5961-00-980-6703	JAN2N1404	81349	TRANSISTOR		EA	1
B-5	67	PAHZZ	5961-00-923-4337	C308	88289	HEATSINK		EA	2
B-5	68	PAHZZ	5310-00-929-6395	MS35338-136	96906	WASHER, LOCK	CNY	EA	4
B-5	68	PAHZZ	5310-00-043-1754	MS35337-79	96906	WASHER, LOCK	ASY	EA	4
B-5	89	PAHZZ	5961-00-881-4816	JAN2N1485	81349	TRANSISTOR		EA	1

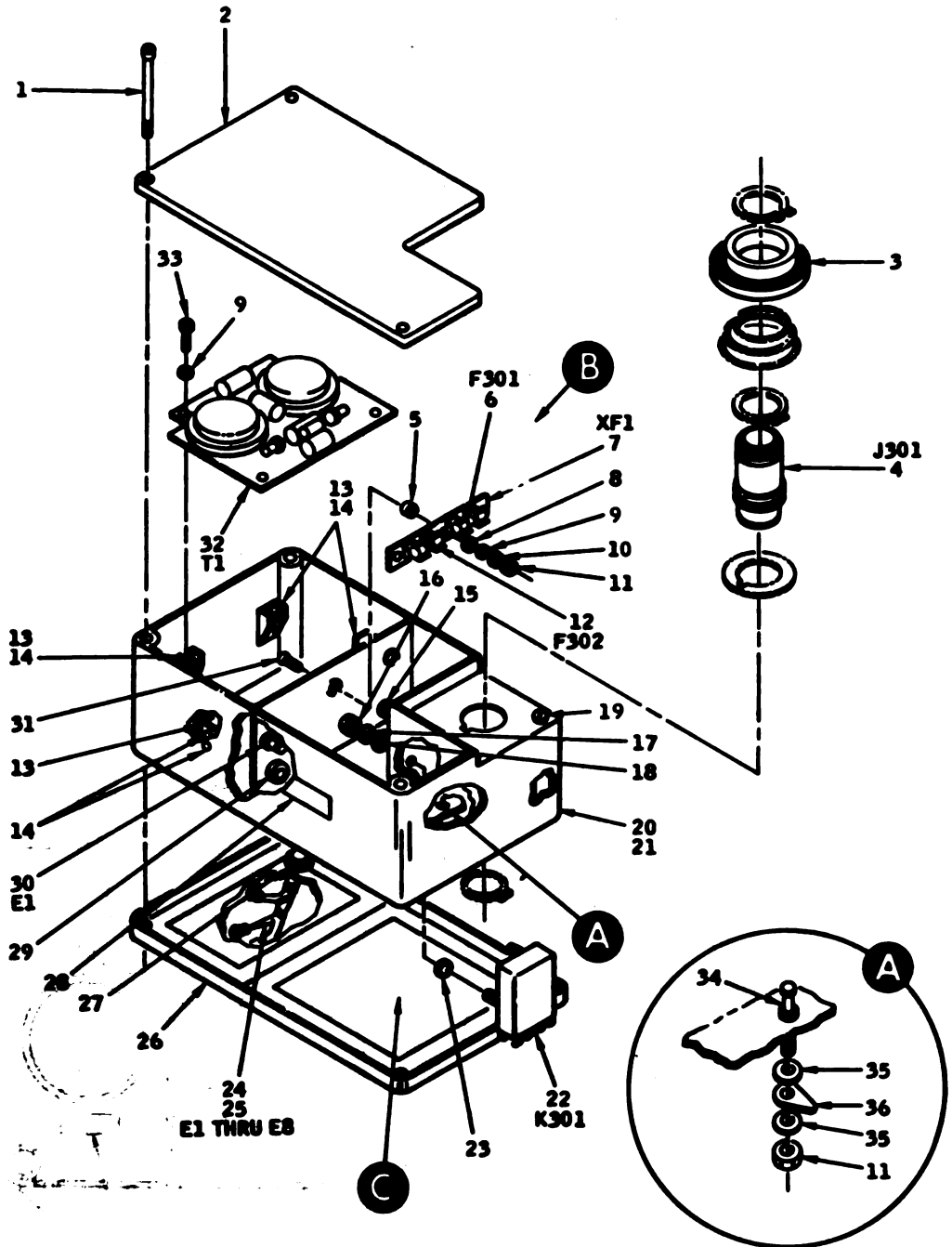
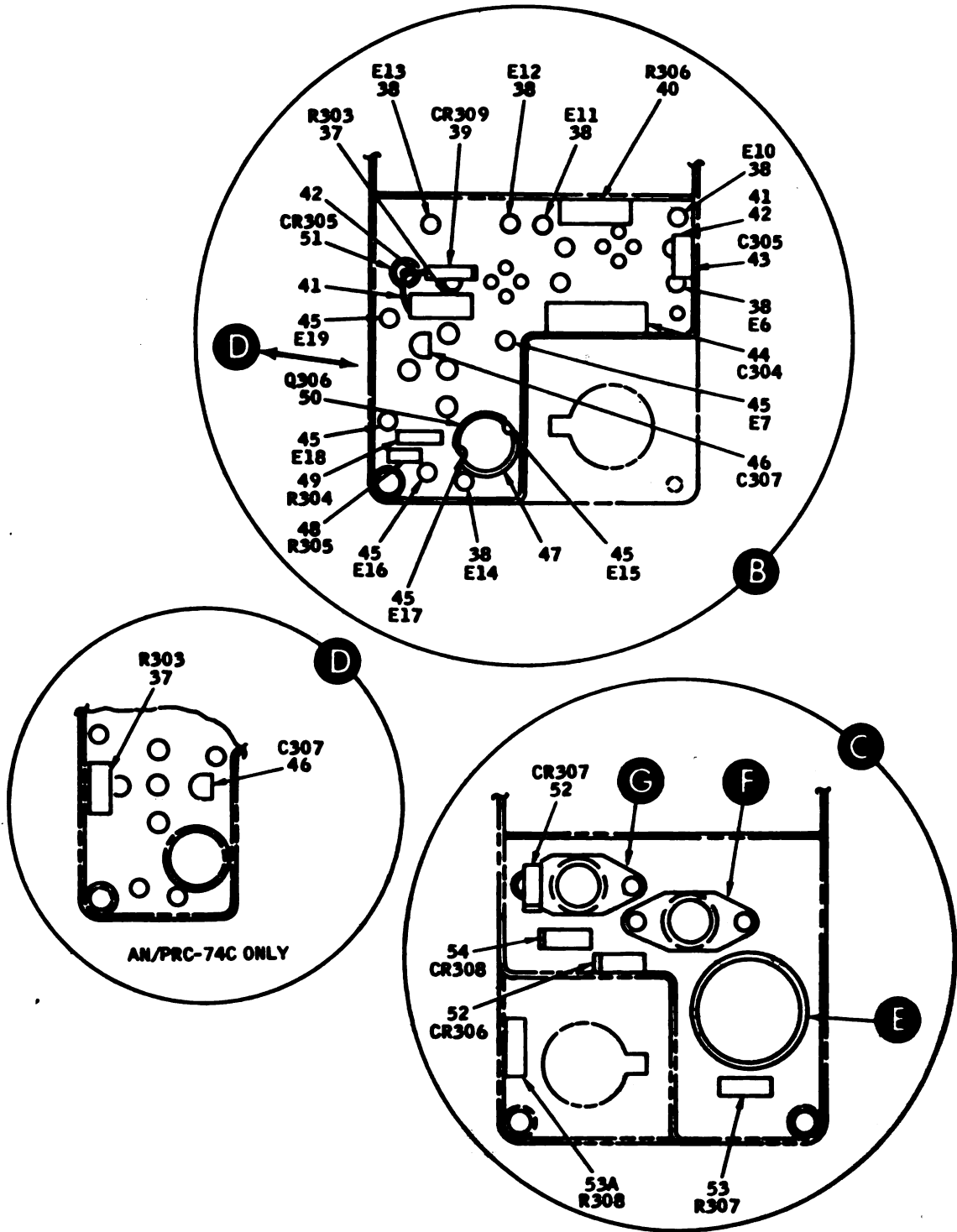


Figure B-5. Module, power supply

(Sheet 1 of 3).

EL6820-690-35P-TM-5 (1)

Change 2 B-21

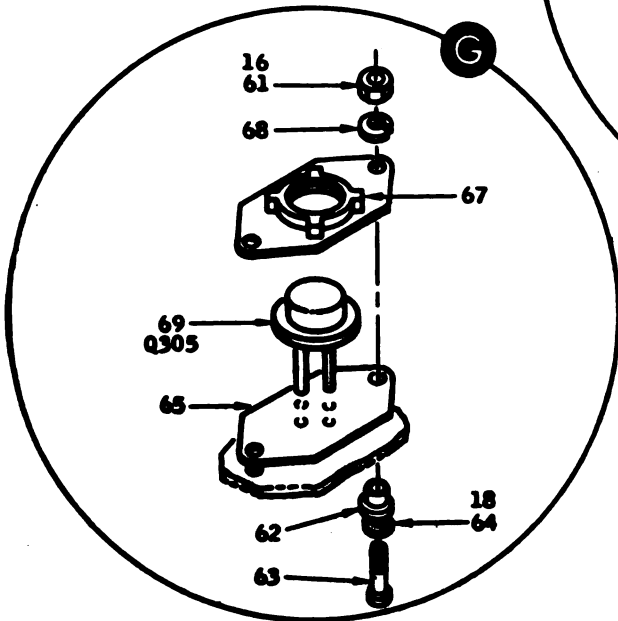
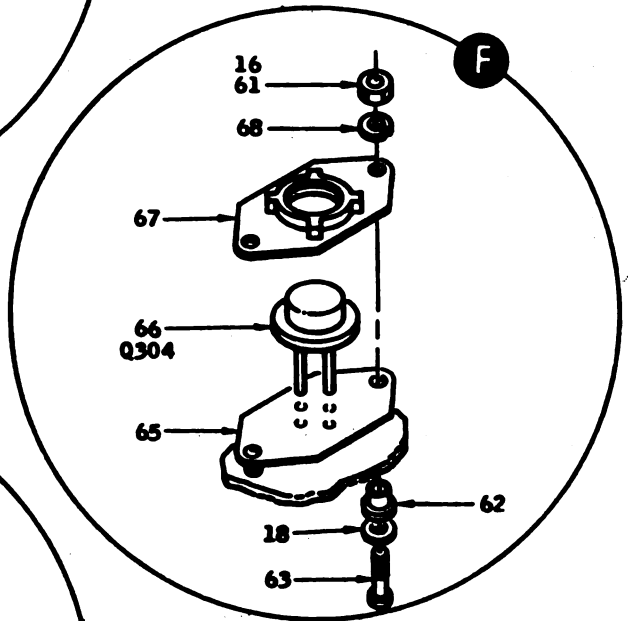
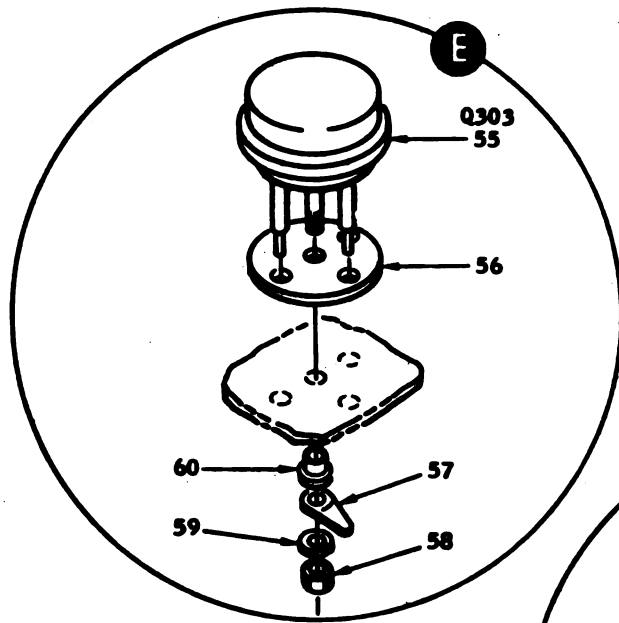


EL8820-800-36P-TM-5 (2)

Figure B-5. Module, power supply

(Sheet 2 of 3).

B-22 Change 2



EL5820-890-35P-TM-5 (3)

Figure B-5. Module, power supply

(Sheet 3 of 3).

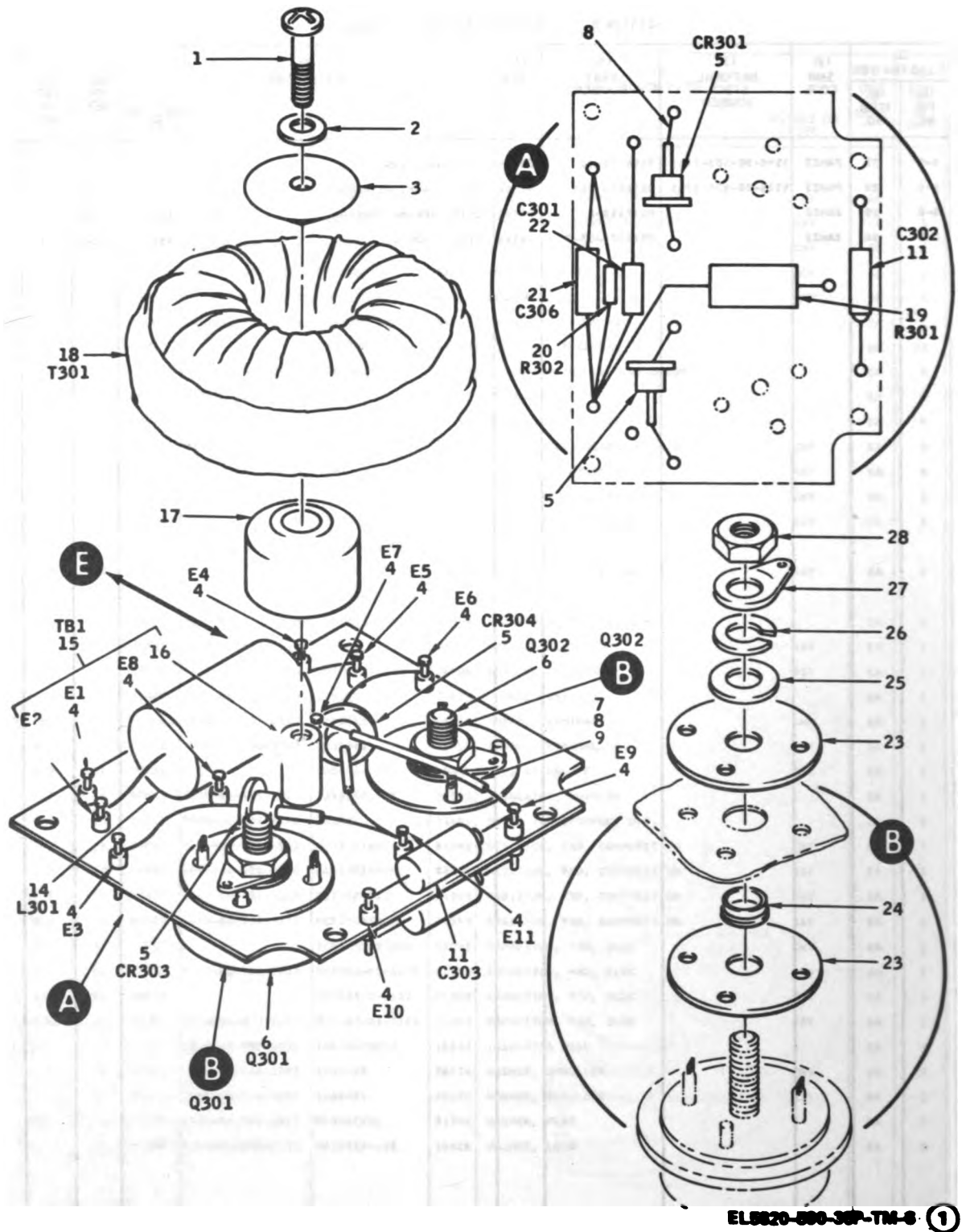
Change 2 B-23

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT	
(A) FIG NO.	(B) ITEM NO.									
B-6		ARRND		1540967	05869	POWER TRANSFORMER AND RECT	CNY	EA	1	
B-6		ARRND		1596562	05869	POWER TRANSFORMER AND RECT	ASY	EA	1	
B-6	1	PAHZZ	5305-00-543-2777	MS35233-35	96906	SCREW, MACHINE	CNY	EA	1	
B-6	1	PAHZZ	5305-00-054-6660	MS51957-36	96906	SCREW, MACHINE	ASY	EA	1	
B-6	2	PAHZZ	5310-00-054-0041	NAS620C6L	80205	WASHER, FLAT	CNY	EA	1	
B-6	3	PAHZZ	5820-00-105-6934	1540968-001	05869	INSULATOR, BUSHING		EA	1	
B-6	4	XAHZZ		PT1000DTUR	98291	TERMINAL, FEEDTHRU		EA	12	
B-6	5	PAHZZ	5961-00-519-6977	JAN1M538	81349	SEMICONDUCTOR DEVICE, DIODE		EA	4	
B-6	6	PAHZZ	5961-00-627-0325	SP2385	04713	TRANSISTOR		EA	2	
R	B-6	7	PAHZZ	5970-00-997-2580	995057-040	09795	INSULATION, SLEEVING		EA	4
C	B-6	8	PAHZZ	9330-00-138-2361	MIL-1-23053/5	06090	TUBING, CL-1 BLACK-0.900ID	CNY	EA	4
B-6	8	PAHZZ	5970-00-177-1502	PENNTUBE25HT2	09795	TUBING, EXPANDED	ASY	EA	4	
R	B-6	9	PAHZZ	5970-00-029-2339	995057-029	09795	INSULATION, SLEEVING	CNY	EA	6
B-6	9	PAHZZ		24AMG4201THIN PTFEMITE	75037	INSULATION, SLEEVING	ASY	EA	2	
B-6	10	PAHZZ		20AMG4201THIN PTFEMITE	75037	INSULATION, SLEEVING	ASY	EA	2	
R	B-6	11	PAHZZ	5910-00-758-5646	CLG5BL150MP3	81349	CAPACITOR, FXD, ELEC		EA	2
B-6	12	PAHZZ	5310-00-531-9514	AN960C6	81349	WASHER, FLAT	ASY	EA	2	
B-6	13	PAHZZ	5310-00-275-2005	MS20364-632C	96906	NUT, SELF-LOCKING	ASY	EA	1	
R	B-6	14	PAHZZ	5950-00-758-5294	2-00219	25656	CHOKER, POWER		EA	1
R	B-6	15	PAHZZ	5940-00-497-8565	1540969	05869	BOARD, TERMINAL	CNY	EA	1
B-6	15	PAHZZ	5940-00-495-1202	1596561	05869	BOARD, TERMINAL	ASY	EA	1	
B-6	16	XAHZZ		505632-22	46384	NUT, STAND-OFF	CNY	EA	1	
B-6	17	PAHZZ	5820-00-105-6935	1540968-002	05869	INSULATOR, BUSHING		EA	1	
B-6	18	PAHZZ	5950-00-937-7140	30131	21645	POWER TRANSFORMER, D.C.		EA	1	
B-6	19	PAHZZ	5905-00-279-1692	RC326P100J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1	
B-6	19	PAHZZ	5905-00-506-8760	RCR326100JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1	
B-6	20	PAHZZ	5905-00-192-3973	RC206P471J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1	
B-6	20	PAHZZ	5905-00-726-9811	RCR206471JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1	
B-6	21	PAHZZ		SCM475BP020A2	01295	CAPACITOR, FXD, ELEC	CNY	EA	1	
C	B-6	21	PAHZZ	5910-00-465-7871	M39003-02-0022	81349	CAPACITOR, FXD, ELEC	ASY	EA	1
C	B-6	22	PAHZZ		M26653-2-0122	81349	CAPACITOR, FXD, ELEC	CNY	EA	1
C	B-6	22	PAHZZ	5910-00-936-1357	M39003-01-2061	81349	CAPACITOR, FXD, ELEC	ASY	EA	1
R	B-6	23	PAHZZ	5970-00-497-8519	14852600P06	16333	INSULATOR DISC		EA	2
B-6	24	PAHZZ	5310-00-915-2513	5607-20	86928	WASHER, SHOULDER	CNY	EA	2	
B-6	24	PAHZZ	5310-00-728-3493	5607-21	86928	WASHER, SHOULDER	ASY	EA	2	
B-6	25	PAHZZ	5310-00-167-0812	AN960C10L	81349	WASHER, FLAT		EA	2	
B-6	26	PAHZZ	5310-00-933-8120	MS35338-138	96906	WASHER, LOCK		EA	2	

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
0-6	27	PANZZ	5940-00-583-7741	2104-10-00	78189	TERMINAL, LUG		EA	2
0-6	28	PANZZ	5310-00-934-9765	MS35658-304	96906	NUT, PLAIN, HEXAGON		EA	2
0-6	29	XANZZ		MS17169-8	96906	CLIP, SPRING TENSION	ASY	EA	1
0-6	30	XANZZ		MS20478AD3-3	96906	RIVET, SOLID	ASY	EA	1



EL5820-500-357-TM-8 (1)

Figure B-6. Power transformer and rectifier board
(Sheet 1 of 2).

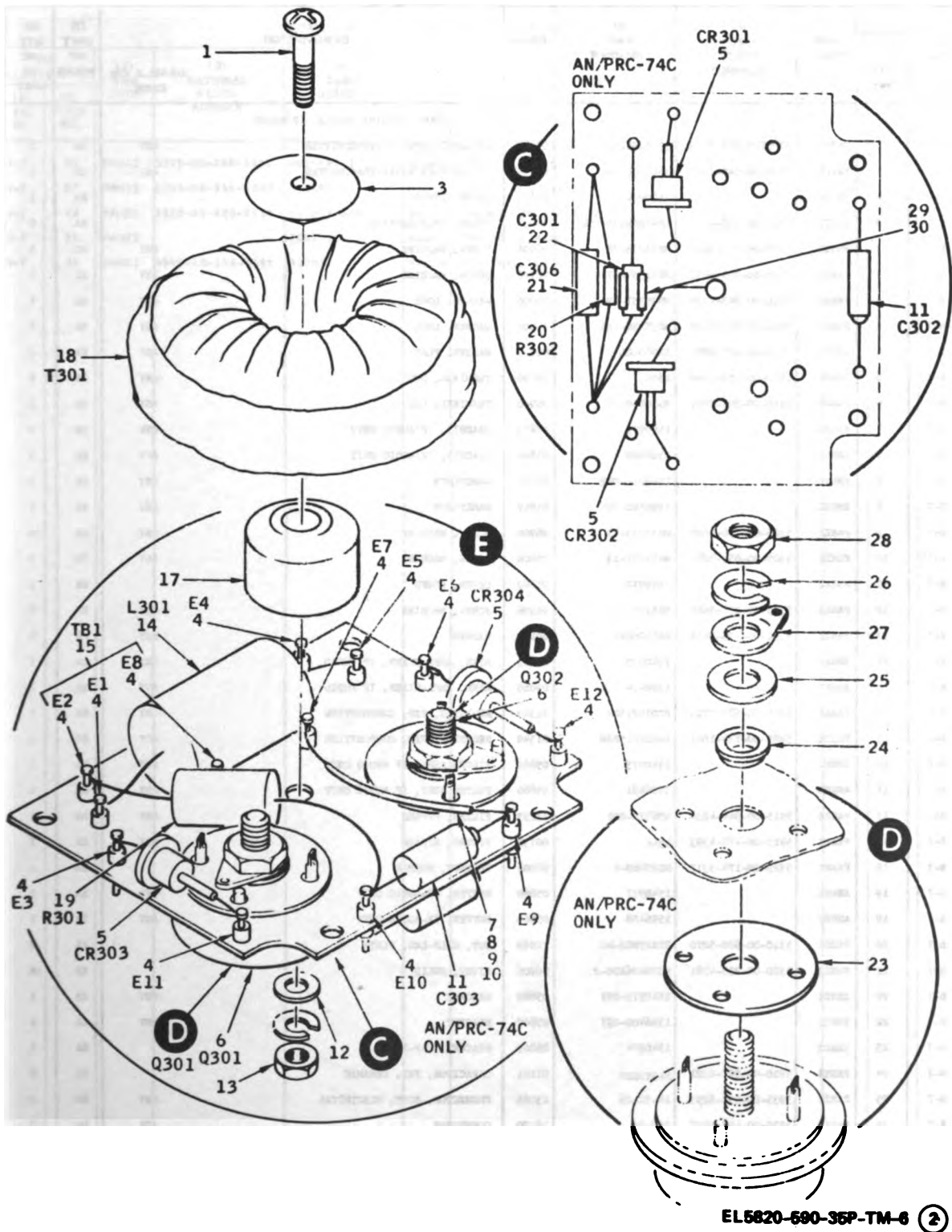


Figure B-6. Power transformer and rectifier board
(Sheet 2 of 2).

Change 2 B-27

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) PSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNST
(A) FIG NO.	(B) ITEM NO.								
GROUP: 010102 MODULE, IF/AUDIO									
B-7		PAFED	5820-00-944-8503	1541054-100	05869	IF/AUDIO-RECEIVER-TRANSMITTER	CHY	EA	1
B-7		PAFED	5820-00-140-7395	1541054-101	05869	IF/AUDIO-RECEIVER-TRANSMITTER	ASY	EA	1
B-7	1	XHXZ		1540972	05869	COVER, UPPER		EA	1
B-7	2	PAKX	5305-00-998-0347	LP87D62832-SPL	03038	SCREW, SELF-LOCKING		EA	8
B-7	3	PAKX	5305-00-979-3021	NE35233-26	96906	SCREW, MACHINE	CHY	EA	4
B-7	3	PAKX	5305-00-054-6651	NE51957-27	96906	SCREW, MACHINE	ASY	EA	4
B-7	4	PAKX	5310-00-043-1754	NE35337-79	96906	WASHER, LOCK	CHY	EA	4
B-7	4	PAKX	5310-00-929-6395	NE35338-136	96906	WASHER, LOCK	ASY	EA	4
B-7	5	PAKX	5310-00-638-9857	AN96006L	81349	WASHER, FLAT	ASY	EA	2
B-7	6	PAKX	5940-00-159-1562	A86G	59730	TERMINAL, LUG	CHY	EA	2
B-7	6	PAKX	5940-00-201-2849	NE20659-2	96906	TERMINAL, LUG	ASY	EA	2
B-7	7	AMHD		1540979	05869	CHASSIS, IF/AUDIO UNIT	CHY	EA	1
B-7	7	AMHD		1596409	05869	CHASSIS, IF/AUDIO UNIT	ASY	EA	1
B-7	8	XHXZ		1540911-002	05869	NAMPLATE	CHY	EA	1
B-7	8	XHXZ		1596480-007	05869	NAMPLATE	ASY	EA	1
B-7	9	PAKX	5305-00-550-5002	NE35233-13	96906	SCREW, MACHINE	CHY	EA	10
B-7	10	PAKX	5305-00-054-5647	NE51957-13	96906	SCREW, MACHINE	ASY	EA	2
B-7	11	XHXZ		1540970	05869	COVER, LOWER		EA	1
B-7	12	PAKX	5305-00-054-5648	NE51957-14	96906	SCREW, MACHINE	ASY	EA	8
B-7	13	PAKX	5310-00-723-9676	NA862005L	80205	WASHER	ASY	EA	8
B-7	14	AMHD		1540975	05869	NIKE, AMPL-MIXER, IF AUDIO	CHY	EA	1
B-7	14	AMHD		1596414	05869	NIKE, AMPL-MIXER, IF AUDIO	ASY	EA	1
B-7	15	PAKX	5905-00-683-7723	RC07GF152J	81349	RESISTOR, FXD, COMPOSITION	CHY	EA	1
B-7	15	PAKX	5905-00-734-1021	RCW07G152JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-7	16	AMHD		1540973	05869	FILTER ASSY, IF AUDIO UNIT	CHY	EA	1
B-7	16	AMHD		1596481	05869	FILTER ASSY, IF AUDIO UNIT	ASY	EA	1
B-7	17	PAKX	5915-00-944-4834	996572-001	73293	FILTER, BYPASS	CHY	EA	1
B-7	17	PAKX	5915-00-478-4393	4344	00136	FILTER, BYPASS	ASY	EA	1
B-7	18	PAKX	5325-00-174-5317	NE35489-4	96906	GROBET, RUBBER		EA	1
B-7	19	AMHD		1540977	05869	BUFFER, IF-AUDIO UNIT	CHY	EA	1
B-7	19	AMHD		1596408	05869	BUFFER, IF-AUDIO UNIT	ASY	EA	1
B-7	20	PAKX	5310-00-680-5270	22A27HE2-40	72962	BUT, SELF-LOCK, PLATE		EA	8
B-7	21	PAKX	5320-00-233-4781	NE20426AD2-2	96906	RIVET, SOLID		EA	16
B-7	22	XHXZ		1540979-097	05869	BRACKET	CHY	EA	1
B-7	22	XHXZ		1596409-097	05869	BRACKET	ASY	EA	1
B-7	23	XHXZ		1540974	05869	BRACKET, CAP-IF		EA	1
B-7	24	PAKX	5910-00-897-6221	PA58E08W	01121	CAPACITOR, FXD, CERAMIC		EA	8
B-7	25	PAKX	5935-00-937-8297	14-32-26	23086	CONNECTOR, RCPT, ELECTRICAL	CHY	EA	2
B-7	25	PAKX	5935-00-497-5827	208-2A	16179	CONNECTOR	ASY	EA	2

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
B-7	26	PAMZZ	5325-00-206-6047	MS35489-1	96906	GROMMET, RUBBER	EA	1
B-7	27	PAMZZ	6145-00-814-1289	RG196A/U	81349	CABLE, RF, COAXIAL	EA	1
R B-7	28	PAMZZ	5970-00-829-2339	995037-029	09795	INSULATION, SLEEVING	EA	2
C B-7	29	PAMZZ		760173-4	06090	TUBING, EXPANDED	EA	4
B-7	30	PAMZZ	5940-00-160-9692	330838	08779	TERMINAL, LUG	EA	10

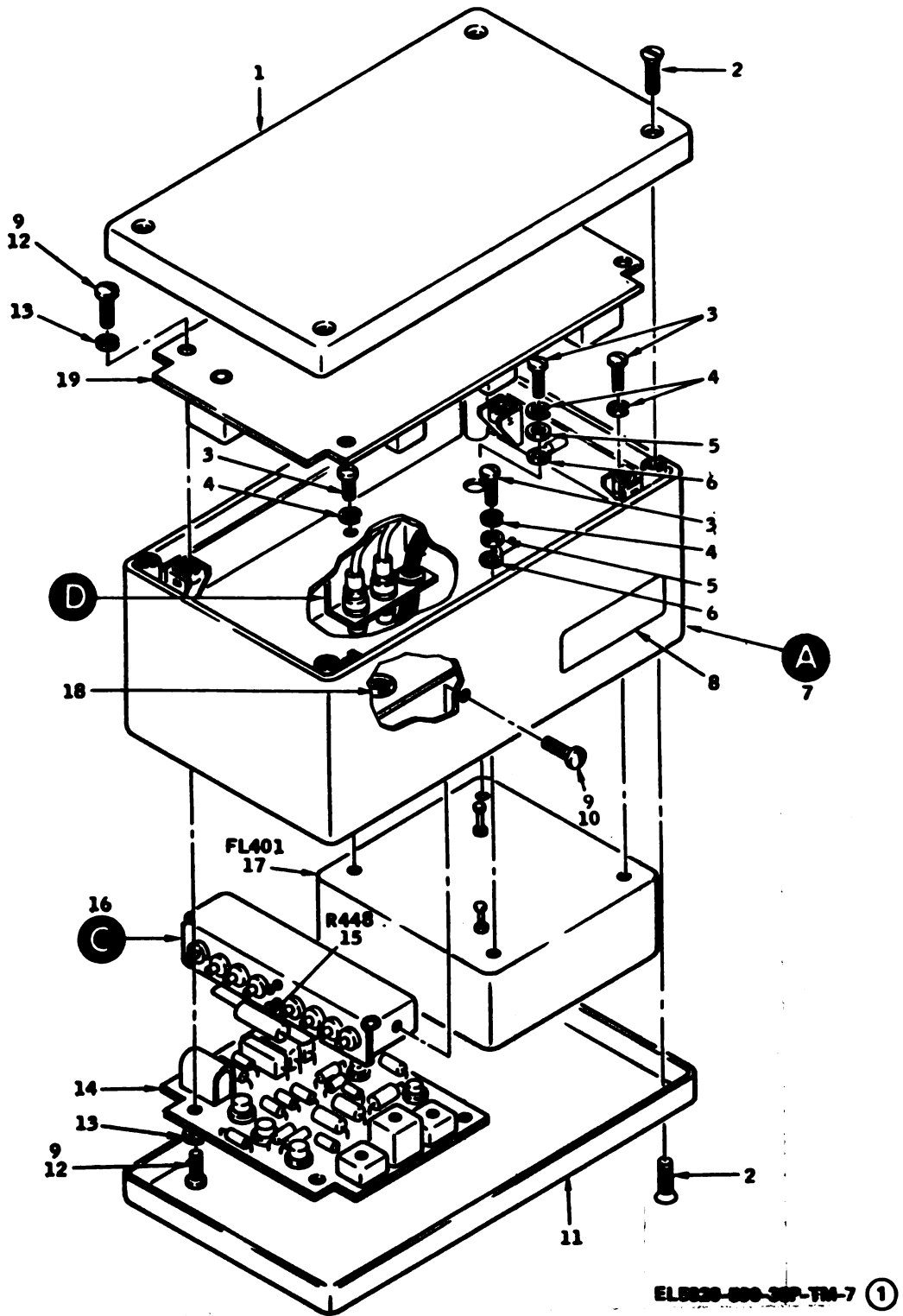


Figure B-7. Module, IF audio

(Sheet 1 of 3).

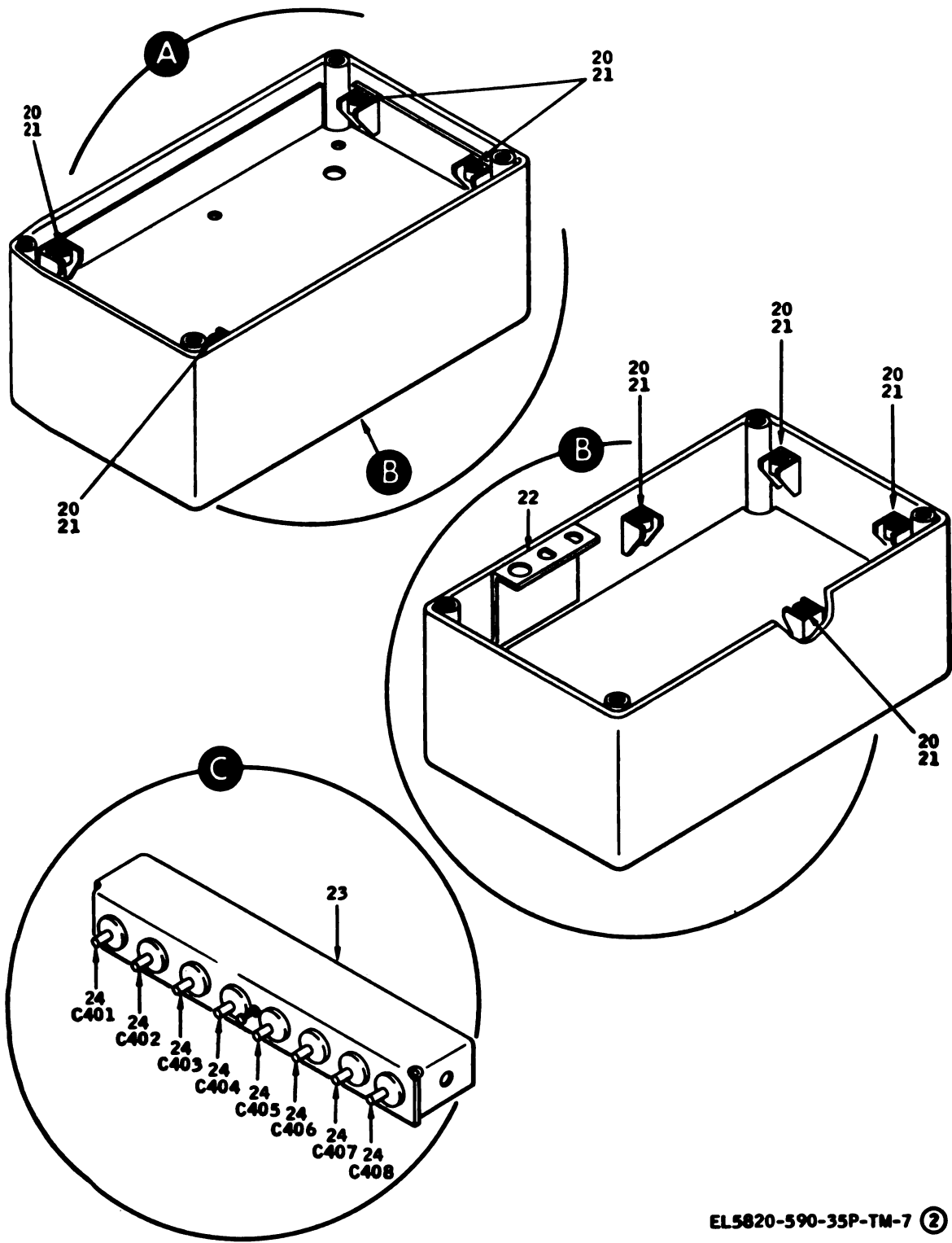
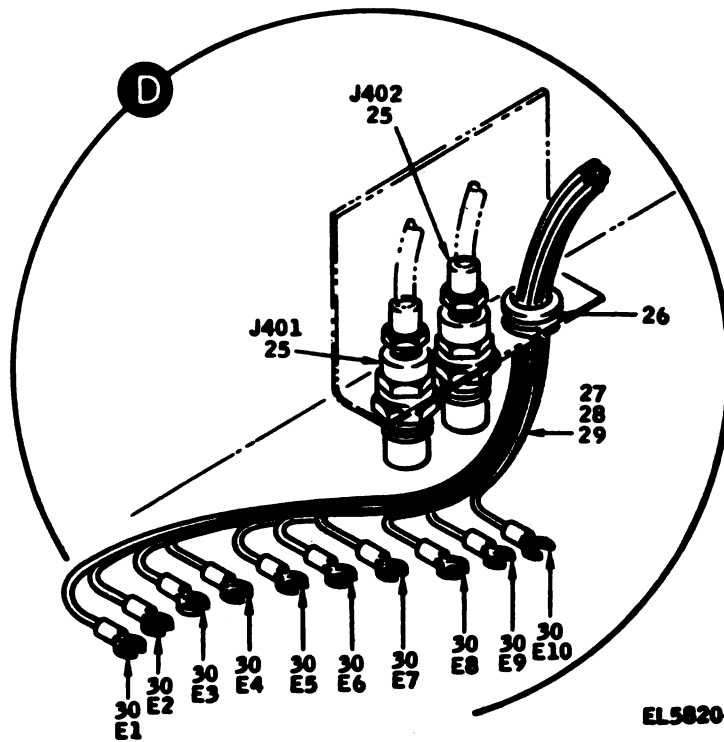


Figure B-7. Module, IF audio

(Sheet 2 of 3).

EL5820-590-35P-TM-7 (2)

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EL5820-590-35P-TM-7 (3)

Figure B-7. Module, IF audio

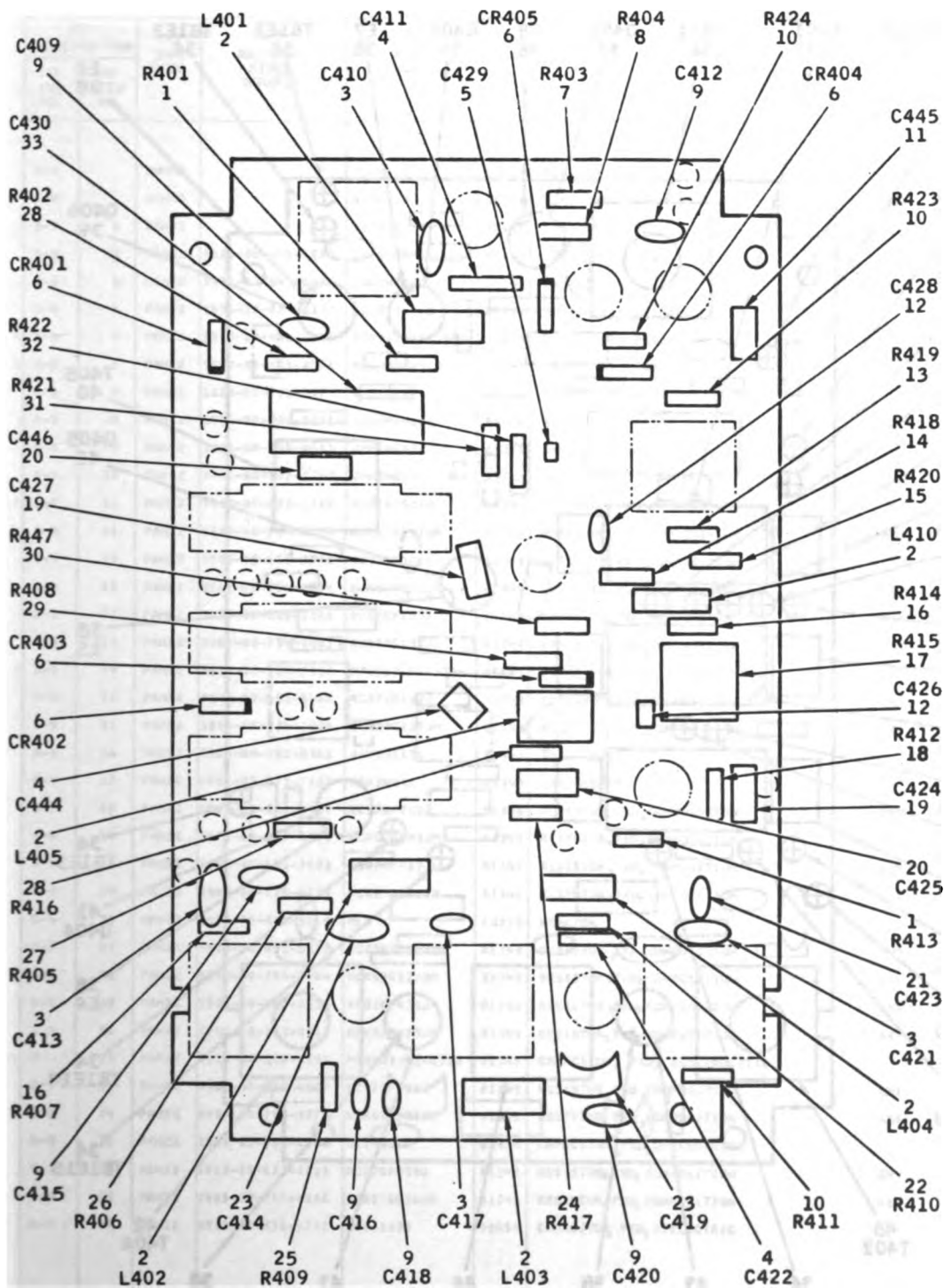
(Sheet 3 of 3).

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
0-0		ANNND		1540977	05869	BUFFER, IF-AUDIO UNIT	CNY	EA	1
0-0		ANNND		1596408	05869	BUFFER, IF-AUDIO UNIT	ASY	EA	1
0-0	1	PANZZ	5905-00-683-2241	RC076F512J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	2
0-0	1	PANZZ	5905-00-764-2186	RCR076512JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	2
0-0	2	PANZZ	5950-00-921-3418	MS90537-37	96906	COIL, RADIO FREQUENCY		EA	6
0-0	3	PANZZ	5910-00-999-7771	CD10C241J03	93790	CAPACITOR, FIXED, MICA DIELECTRIC		EA	4
0-0	4	PANZZ	5910-00-109-8653	5C023104X9500B3	56289	CAPACITOR, FIXED, CER DIELECTRIC		EA	3
0-0	5	PANZZ	5910-00-893-6745	CK05CM102K	81349	CAPACITOR, FIXED, CER DIELECTRIC		EA	1
0-0	6	PANZZ	5961-00-646-4611	JAN1N457	81349	SEMICONDUCTOR DEVICE, DIODE		EA	5
0-0	7	PANZZ	5905-00-682-4083	RC076F111J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
0-0	7	PANZZ	5905-00-889-1706	RCR076111JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
0-0	8	PANZZ	5905-00-801-2377	RC076F750J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
0-0	8	PANZZ	5905-00-772-9398	RCR076750JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
0-0	9	PANZZ	5910-00-392-3125	UK10-503	71590	CAPACITOR, FIXED, DIELECTRIC		EA	6
0-0	10	PANZZ	5905-00-682-4097	RC076F302J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	3
0-0	10	PANZZ	5905-00-764-2776	RCR076302JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	3
0-0	11	PANZZ	5910-00-880-3430	CS130E225K	81349	CAPACITOR, FIXED, ELECTROLYTIC		EA	1
0-0	12	PANZZ	5910-00-760-6878	DM15-102J	72136	CAPACITOR, FIXED, MICA DIELECTRIC		EA	2
0-0	13	PANZZ	5905-00-687-8000	RC076F183J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
0-0	13	PANZZ	5905-00-773-1868	RCR076183JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
0-0	14	PANZZ	5905-00-683-2238	RC076F103J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
0-0	14	PANZZ	5905-00-734-1003	RCR076103JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
0-0	15	PANZZ	5905-00-681-9969	RC076F332J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
0-0	15	PANZZ	5905-00-734-1036	RCR076332JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
0-0	16	PANZZ	5905-00-683-2235	RC076F680J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	2
0-0	16	PANZZ	5905-00-763-4638	RCR076680JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	2
0-0	17	PANZZ	5905-00-400-1702	3290P1-103	80294	RESISTOR, VARIABLE		EA	1
0-0	18	PANZZ	5905-00-686-3129	RC076F104J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
0-0	18	PANZZ	5905-00-110-0388	RCR076104JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
0-0	19	PANZZ	5910-00-787-2109	CS130F105K	81349	CAPACITOR, FIXED, ELECTROLYTIC	CNY	EA	2
0-0	19	PANZZ	5910-00-868-4298	CSR13G105KM	81349	CAPACITOR, FIXED, ELECTROLYTIC	ASY	EA	2
0-0	20	PANZZ	5910-00-880-7240	CS130B685K	81349	CAPACITOR, FIXED, ELECTROLYTIC		EA	2
0-0	21	PANZZ	5910-00-431-5335	7C023103X500D	56289	CAPACITOR, FIXED, CER DIELECTRIC		EA	1
0-0	22	PANZZ	5905-00-723-5251	RC076F222J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
0-0	22	PANZZ	5905-00-728-6139	RCR076222JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
0-0	23	PANZZ	5910-00-649-2917	DM15-511J	72136	CAPACITOR, FIXED, MICA DIELECTRIC		EA	2
0-0	24	PANZZ	5905-00-682-4109	RC076F561J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
0-0	24	PANZZ	5905-00-764-2401	RCR076561JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
0-0	25	PANZZ	5905-00-683-7721	RC076F101J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1

SECTION II REPAIR PARTS LIST (CONTINUED)

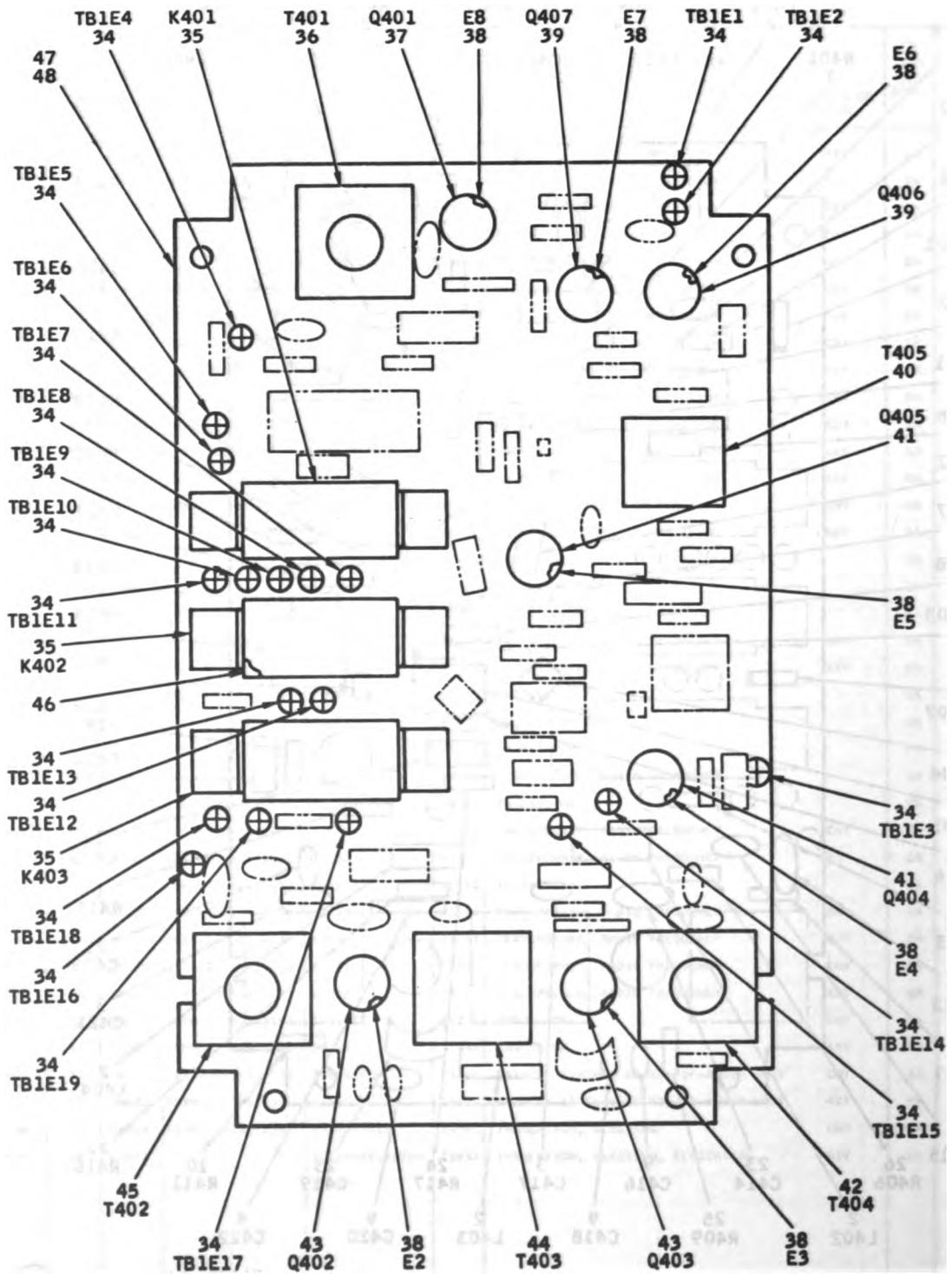
(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
R	0-0	25	PAMZZ 5905-00-764-2100	RCR07G101JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
R	0-0	26	PAMZZ 5905-00-683-7720	RC07GF510J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
R	0-0	26	PAMZZ 5905-00-764-2479	RCR07G510JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
R	0-0	27	PAMZZ 5905-00-686-3122	RC07GF301J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
R	0-0	27	PAMZZ 5905-00-764-2775	RCR07G301JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
R	0-0	28	PAMZZ 5905-00-681-6462	RC07GF102J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	2
R	0-0	28	PAMZZ 5905-00-734-0804	RCR07G102JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	2
R	0-0	29	PAMZZ 5905-00-682-4108	RC07GF241J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
R	0-0	29	PAMZZ 5905-00-764-2472	RCR07G241JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
R	0-0	30	PAMZZ 5905-00-686-3119	RC07GF132J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
R	0-0	30	PAMZZ 5905-00-739-5004	RCR07G132JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
R	0-0	31	PAMZZ 5905-00-603-2242	RC07GF471J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
R	0-0	31	PAMZZ 5905-00-734-1045	RCR07G471JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
R	0-0	32	PAMZZ 5905-00-682-4101	RC07GF752J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
R	0-0	32	PAMZZ 5905-00-101-2746	RCR07G752JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
R	0-0	33	PAMZZ 5910-00-880-5432	CS13BC227K	81349	CAPACITOR, FIXED, ELECTROLYTIC		EA	1
R	0-0	34	XAMZZ	201002	88245	TERMINAL, STD		EA	19
R	0-0	35	PAMZZ 5945-00-721-3805	SX2193	02280	RELAY, ARMATURE		EA	3
R	0-0	36	PAMZZ 5950-00-944-4651	10620	03550	TRANSFORMER, RADIO FREQUENCY	CHY	EA	1
R	0-0	36	PAMZZ 5950-00-497-5770	15947	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
R	0-0	37	PAMZZ 5961-00-951-0757	JAN2N2222A	81349	TRANSISTOR		EA	1
R	0-0	38	PAMZZ 5970-00-956-4973	10044DAP	07047	INSULATOR, DISC		EA	7
R	0-0	39	PAMZZ 5961-00-859-5177	PT835	01281	TRANSISTOR		PR	1
R	0-0	40	PAMZZ 5950-00-497-7703	3222	21645	TRANSFORMER, AUDIO FREQUENCY		EA	1
R	0-0	41	PAMZZ 5961-00-879-3009	2N706A	04713	TRANSISTOR		EA	2
R	0-0	42	PAMZZ 5950-00-944-4644	13623	03550	TRANSFORMER, RADIO FREQUENCY	CHY	EA	1
R	0-0	42	PAMZZ 5950-00-497-5700	15950	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
R	0-0	43	PAMZZ 5961-00-944-4663	2N3338	07910	TRANSISTOR		EA	2
R	0-0	44	PAMZZ 5950-00-044-4652	10622	03550	TRANSFORMER, RADIO FREQUENCY	CHY	EA	1
R	0-0	44	PAMZZ 5950-00-497-5774	15949	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
R	0-0	45	PAMZZ 5950-00-944-4650	10621	03550	TRANSFORMER, RADIO FREQUENCY	CHY	EA	1
R	0-0	45	PAMZZ 5950-00-497-5779	15948	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
R	0-0	46	PAMZZ 5470-00-109-8102	100-401	29238	INSULATOR	CHY	EA	1
R	0-0	46	PAMZZ 5945-00-915-1052	10105	07047	INSULATOR	ASY	EA	1
R	0-0	47	XBMZZ 5020-00-945-4316	1540978	05869	PRINTED CIRCUIT BOARD, IF-AUDIO UNIT	CHY	EA	1
R	0-0	47	XBMZZ 5020-00-139-4809	1596375	05869	PRINTED CIRCUIT BOARD, IF-AUDIO UNIT	ASY	EA	1
R	0-0	48	PAMZZ 5970-00-829-2339	99-057-029	09795	INSULATION, SLEEVING	CHY	EA	5
R	0-0	48	PAMZZ	20AMG4201THIN-PTPE	75037	INSULATION, SLEEVING, ELECTRICAL	ASY	EA	5



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Figure B-8. IF audio module, bottom component board
(Sheet 1 of 2).

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EL5820-500-35P-TM-8 (2)

Figure B-8. IF audio module, bottom component board
(Sheet 2 of 2).

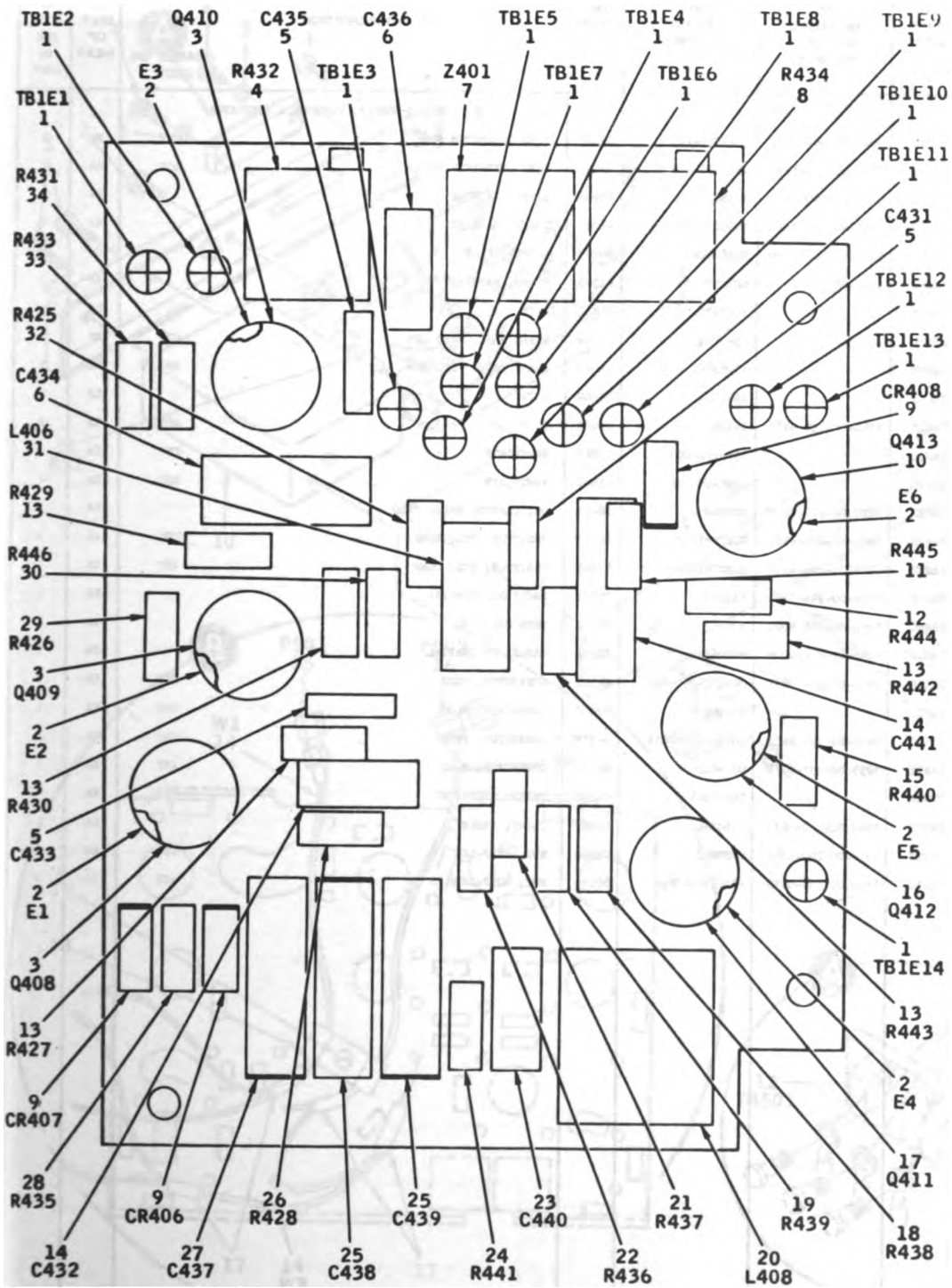
B-32 Change 2

SECTION H REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCN	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT	
(A) FIG NO.	(B) ITEM NO.								
8-9		AM00D		1540975	05869	MIKE AMPL-MIXER IF AUDIO	CNY	EA	1
8-9		AM00D		1596414	05869	MIKE AMPL-MIXER IF AUDIO	ASY	EA	1
8-9	1	XAMZZ		201002	88245	TERMINAL,STUD		EA	14
8-9	2	PAMZZ	5970-00-956-4973	18044DAP	07047	INSULATOR, DISC		EA	6
8-9	3	PAMZZ	5961-00-842-6937	JAN2M706	81349	TRANSISTOR		EA	3
8-9	4	PAMZZ	5905-00-774-8119	3290P1-102	80294	RESISTOR, VARIABLE		EA	1
8-9	5	PAMZZ	5910-00-431-5335	7C023103X0500D	56289	CAPACITOR, FXD, CERAMIC		EA	3
8-9	6	PAMZZ	5910-00-021-8075	M39003-01-2257	81349	CAPACITOR, FXD, ELEC		EA	2
8-9	7	PAMZZ	5820-00-999-7974	VE10619	05550	MIXER, BALANCED		EA	1
8-9	8	PAMZZ	5905-00-939-3886	3290P1-201	80294	RESISTOR, VARIABLE		EA	1
8-9	9	PAMZZ	5961-00-646-4611	JAN1M457	81349	SEMICONDUCTOR DEVICE, DIODE		EA	3
8-9	10	PAMZZ	5961-00-837-7262	JAN2M697	81349	TRANSISTOR		EA	1
8-9	11	PAMZZ	5905-00-683-7723	RC07GF512J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	11	PAMZZ	5905-00-764-2186	RCR07G512JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	12	PAMZZ	5905-00-686-3798	RC07GF272J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	12	PAMZZ	5905-00-780-8234	RCR07G272JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	13	PAMZZ	5905-00-683-2238	RC07GF103J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	5
8-9	13	PAMZZ	5905-00-734-1003	RCR07G103JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	5
8-9	14	PAMZZ	5910-00-404-7150	M39003-01-2296	81349	CAPACITOR, FXD, ELECTROLYTIC		EA	2
8-9	15	PAMZZ	5905-00-681-6462	RC07GF102J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	15	PAMZZ	5905-00-734-0804	RCR07G102JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	16	PAMZZ	5961-00-081-8365	JAN2M1131	81349	TRANSISTOR		EA	1
8-9	17	PAMZZ	5961-00-771-7183	JAN2M911	81349	TRANSISTOR		EA	1
8-9	18	PAMZZ	5905-00-686-3368	RC07GF203J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	18	PAMZZ	5905-00-887-9763	RCR07G203JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	19	PAMZZ	5905-00-686-3903	RC07GF333J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	19	PAMZZ	5905-00-728-6153	RCR07G333JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	20	PAMZZ	5950-00-878-9669	ML3	80223	REACTOR		EA	1
8-9	21	PAMZZ	5905-00-081-8272	RC07GF511J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	21	PAMZZ	5905-00-764-2784	RCR07G511JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	22	PAMZZ	5905-00-807-8059	RC07GF433J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	22	PAMZZ	5905-00-773-8914	RCR07G433JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	23	PAMZZ	5910-00-068-4298	M39003-01-2356	81349	CAPACITOR, FXD, ELECTROLYTIC		EA	1
8-9	24	PAMZZ	5905-00-682-4097	RC07GF302J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	24	PAMZZ	5905-00-764-2776	RCR07G302JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	25	PAMZZ	5910-00-893-8419	DE1-823D	09454	CAPACITOR, FXD, DIELECTRIC		EA	2
8-9	26	PAMZZ	5905-00-683-2233	RC07GF680J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	26	PAMZZ	5905-00-763-4050	RCR07G680JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	27	PAMZZ	5910-00-878-9733	DE1-123D	09454	CAPACITOR, FXD, DIELECTRIC		EA	1

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
8-9	28	PAHZZ	5905-00-681-0018	RC076F153J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	28	PAHZZ	5905-00-728-6132	RCR07G153JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	29	PAHZZ	5905-00-803-2908	RC076F503J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	29	PAHZZ	5905-00-780-8236	RCR07G503JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	30	PAHZZ	5905-00-686-3370	RC076F202J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	30	PAHZZ	5905-00-764-2773	RCR07G202JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	31	PAHZZ	5950-00-921-3418	MS90537-37	96906	COIL, RADIO FREQUENCY		EA	1
8-9	32	PAHZZ	5905-00-892-6941	RC076F221J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	32	PAHZZ	5905-00-728-6138	RCR07G221JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	33	PAHZZ	5905-00-683-2242	RC076F471J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	33	PAHZZ	5905-00-734-1045	RCR07G471JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
8-9	34	PAHZZ	5905-00-727-0001	RC076F681J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
8-9	34	PAHZZ	5905-00-763-4861	RCR07G681JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1



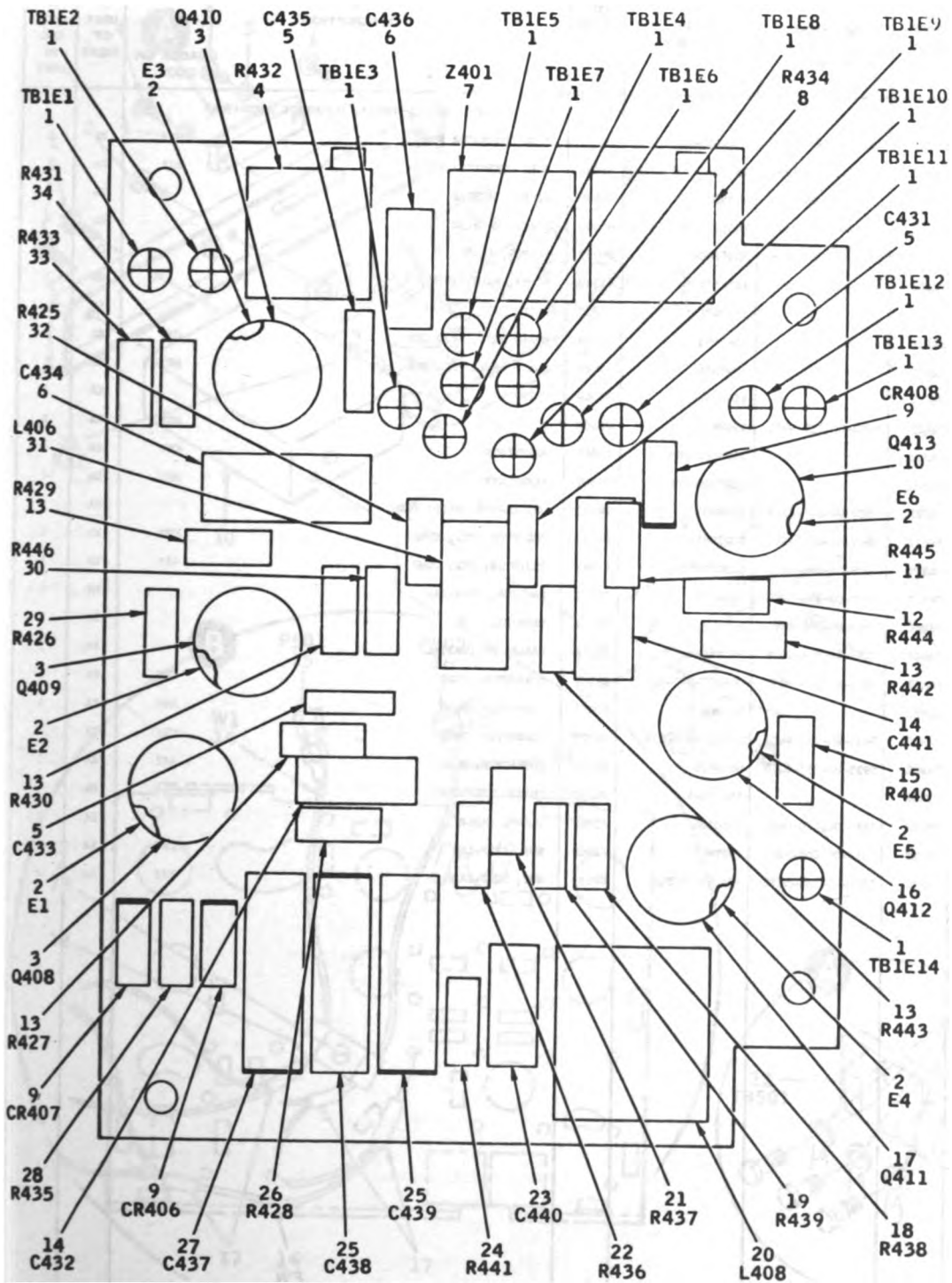
EL5820-600-36P-T16-0

Figure B-9. IF audio module, top component board.

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SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-9	28	PAHZZ	5985-00-681-8818	RC876F153J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-9	28	PAHZZ	5983-00-728-6132	RCR876153JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-9	29	PAHZZ	5985-00-803-2908	RC876F303J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-9	29	PAHZZ	5985-00-788-8236	RCR876303JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-9	30	PAHZZ	5985-00-686-3378	RC876F202J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-9	30	PAHZZ	5985-00-764-2773	RCR876202JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-9	31	PAHZZ	5958-00-921-3418	MS98537-37	96906	COIL, RADIO FREQUENCY		EA	1
B-9	32	PAHZZ	5985-00-892-6941	RC876F221J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-9	32	PAHZZ	5985-00-728-6138	RCR876221JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-9	33	PAHZZ	5985-00-683-2242	RC876F471J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-9	33	PAHZZ	5985-00-734-1045	RCR876471JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-9	34	PAHZZ	5985-00-727-8001	RC876F681J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-9	34	PAHZZ	5985-00-763-4861	RCR876681JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1



EL6820-500-35P-TM-9

Figure B-9. IF audio module, top component board.

Change 2 B-30

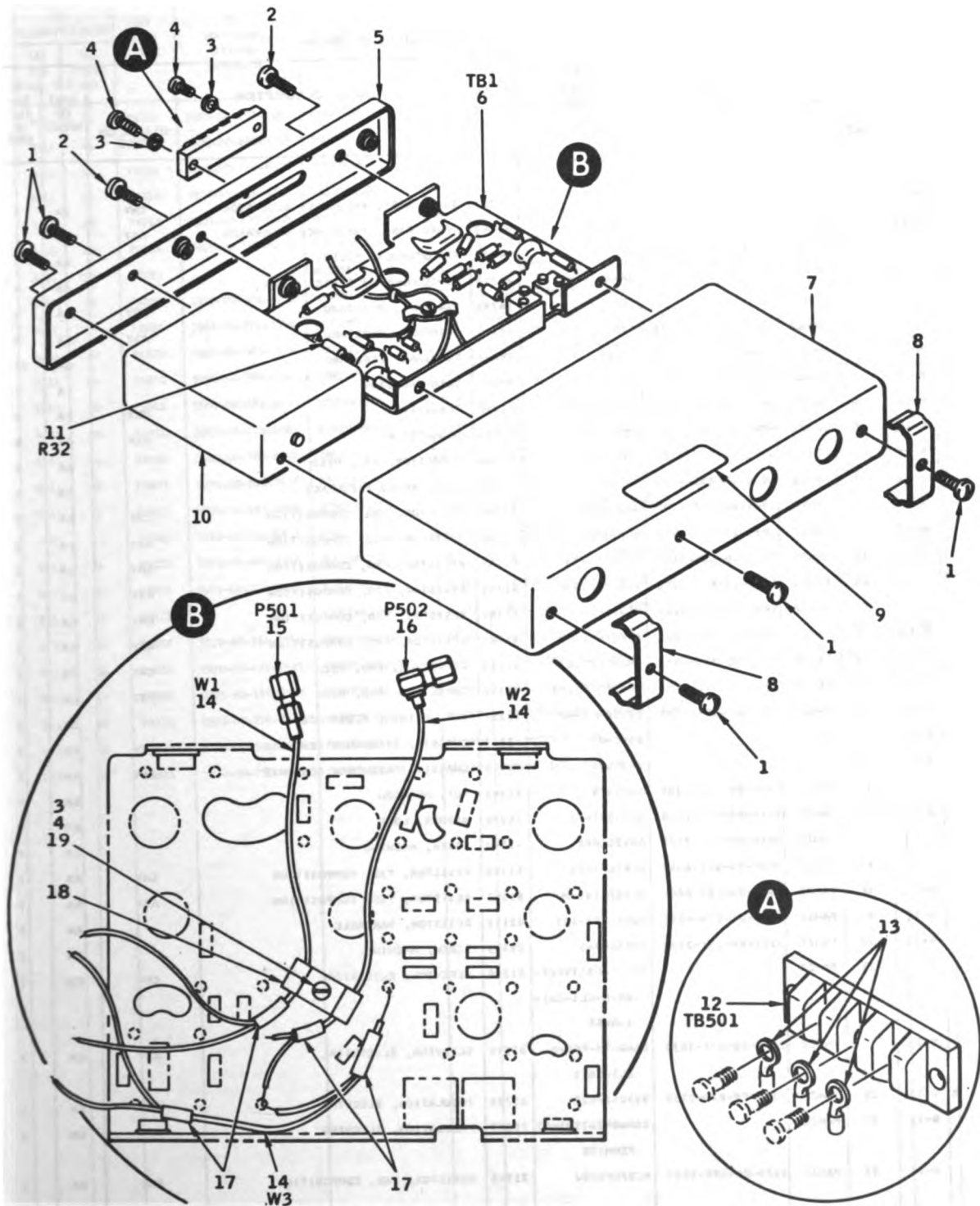
SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
GROUP: 010103 MODULE, FREQUENCY GENERATOR									
B-10		PAFED	5820-00-089-7879	1541055-101	05869	FREQ GENERATOR ASSY	CFY	EA	1
B-10		PAFED	5820-00-140-7396	1541055-102	05869	FREQ GENERATOR ASSY	ASY	EA	1
B-10	1	PAFEZ	5305-00-550-5002	MS35233-13	96906	SCREW, MACHINE		EA	5
B-10	2	PAFEZ	5305-00-579-3021	MS35233-26	96906	SCREW, MACHINE		EA	2
B-10	3	PAFEZ	5310-00-723-9676	MS62004L	80205	WASHER, FLAT		EA	1
B-10	4	PAFEZ	5305-00-487-6354	AN51504-5	81349	SCREW, MACHINE		EA	3
B-10	5	XBFEZ		1540982	05869	BASE		EA	1
B-10	6	AMDD		1540983	05869	BOARD ASSY, FREQ GEN	CFY	EA	1
B-10	6	AMDD		1596386	05869	BOARD ASSY, FREQ GEN	ASY	EA	1
B-10	7	XBFEZ		1540980	05869	COVER		EA	1
B-10	8	PAFEZ	5340-00-136-9971	1592633	05869	CLIP	ASY	EA	2
B-10	9	XBFEZ		1599161-003	05869	NAMEPLATE	CFY	EA	1
B-10	9	XBFEZ		1596480-001	05869	NAMEPLATE	ASY	EA	1
B-10	10	PAFEZ	5820-00-146-1248	300890	28483	OSCILLATOR, RADIO FREQ		EA	1
R	B-10	PAFEZ	5905-00-682-4107	RC070P181J	81349	RESISTOR, FXD, COMP	CFY	EA	1
B-10	11	PAFEZ	5905-00-890-4232	RC070T181JM	81349	RESISTOR, FXD, COMP	ASY	EA	2
B-10	12	PAFEZ	5940-00-949-3101	411J73	75382	BARRIER, TERMINAL		EA	1
B-10	13	PAFEZ	5940-00-168-9691	330837	00779	TERMINAL, LUG		EA	3
B-10	14	PAFEZ	6145-00-814-1209	RG196A/U	81349	CABLE, RF COAXIAL		EA	3
B-10	15	PAFEZ	5935-00-944-9857	004601-040-801	94375	CONNECTOR, PLUG	CFY	EA	1
C	B-10	PAFEZ		UX1460U	80058	CONNECTOR, PLUG	ASY	EA	1
B-10	16	PAFEZ	5935-00-933-9403	004602-900-819	94375	CONNECTOR, PLUG	CFY	EA	1
C	B-10	PAFEZ	5935-00-937-6278	UX1461U	80058	CONNECTOR, PLUG	ASY	EA	1
C	B-10	PAFEZ		760173-4	06090	TUBING, EXPANDED		EA	4
R	B-10	PAFEZ	5340-00-170-0631	1560186	05869	CLAMP, CABLE		EA	2
B-10	19	PAFEZ	5310-00-208-9261	7987940	72962	NUT, SELF-LOCK	CFY	EA	1
R	B-10	PAFEZ	5310-00-138-0178	791014-440P18	80539	NUT, SELF-LOCK	ASY	EA	1

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B-40 Change 2

11-5820-990-35-1



EL5820-500-35P-TM-10

Figure B-10. Module, frequency generator .

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SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-11		ADHDD		1540983	05869	BOARD ASSY, FREQUENCY GENERATOR	CNY	EA	1
B-11		AMHDD		1596380	05869	BOARD ASSY, FREQUENCY GENERATOR	ASY	EA	1
B-11	1	PAHZZ	5950-00-020-3477	PIP5	00223	TRANSFORMER, PULSE		EA	2
B-11	2	PAHZZ	5961-00-014-0760	JAN1N3064	01349	SEMICONDUCTOR DEVICE DIODE		EA	4
B-11	3	PAHZZ		FTE10	98291	TERMINAL, FEEDTHRU	CNY	EA	4
B-11	3	PAHZZ	5940-00-235-0001	FTE15	98291	TERMINAL, FEEDTHRU	ASY	EA	4
B-11	4	PAHZZ	5940-00-463-7270	FTE12	98291	TERMINAL, FEEDTHRU		EA	27
B-11	5	PAHZZ	5940-00-912-9993	TJ30A2	00245	TERMINAL STUD		EA	7
B-11	6	PAHZZ	5961-00-003-9495	JAN2N706A	01349	TRANSISTOR	CNY	EA	4
B-11	6	PAHZZ	5961-00-042-6937	JAN2N706	01349	TRANSISTOR	ASY	EA	4
B-11	7	PAHZZ	5910-00-617-3764	DM15-751J	72136	CAPACITOR, FXD, MICA		EA	1
B-11	8	PAHZZ	5950-00-932-4400	95310	03550	COIL, RADIO FREQUENCY		EA	1
B-11	9	PAHZZ	5905-00-603-7720	RC376F513J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	3
B-11	9	PAHZZ	5905-00-764-2479	RCR07G510JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	3
B-11	10	PAHZZ	5905-00-606-3120	RC07GF113J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-11	10	PAHZZ	5905-00-014-6280	RCR07G113JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-11	11	PAHZZ	5905-00-607-0000	RC07GF103J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-11	11	PAHZZ	5905-00-773-1860	RCR07G103JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-11	12	PAHZZ	5910-00-002-5033	CM05D271J03	01349	CAPACITOR, FXD, MICA	CNY	EA	1
B-11	12	PAHZZ	5910-00-460-0870	CM05PD271J03	01349	CAPACITOR, FXD, MICA	ASY	EA	1
B-11	13	PAHZZ	5310-00-691-2794	221CFLM1-40	13237	NUT, CLINCH, FLUSH MTG		EA	2
B-11	14	ADHDD		1540984	05869	CHASSIS, FREQUENCY GEN UNIT	CNY	EA	1
B-11	14	ADHDD		1596521	05869	CHASSIS, FREQUENCY GEN UNIT	ASY	EA	1
B-11	15	PAHZZ	5310-00-260-7306	AN345C0	01349	NUT, HEXAGON		EA	4
B-11	16	PAHZZ	5310-00-050-2950	MS35337-77	96906	WASHER, LOCK		EA	4
B-11	17	PAHZZ	5035-00-343-2174	AN520C0R0	01349	SCREW, MACHINE		EA	2
B-11	18	PAHZZ	5905-00-601-6462	RC07GF102J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-11	18	PAHZZ	5905-00-734-0004	RCR07G102JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-11	19	PAHZZ	5905-00-079-4956	50-9-207-103	02111	RESISTOR, VARIABLE		EA	3
B-11	20	PAHZZ	5305-00-151-3598	AN520-0-5	01349	SCREW, MACHINE		EA	2
B-11	21	PAHZZ		MIL-1-631TYPEF-GR-B-CL1-CAT-1-AMGG	01349	SLEEVING, ELECTRICAL	CNY	EA	1
B-11		PAHZZ	5970-00-577-1630	6AWG-TY-FGR-B-CL1-CAT1	01349	SLEEVING, ELECTRICAL	ASY	EA	1
B-11	22	PAHZZ	5970-00-029-2339	995057-029	99795	INSULATION, SLEEVING	CNY	EA	1
B-11	22	PAHZZ		20AWG4201THINPT FEMHITE	75037	INSULATION, SLEEVING	ASY	EA	1
B-11	23	PAHZZ	5905-00-606-9997	RC07GF602J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT		
(A) FIG NO.	(B) ITEM NO.										
B-11	23	PAEZZ	5905-00-734-1062	RCR070682JN	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1		
B-11	24	PAEZZ	5905-00-688-3738	RC0707182J	81349	R. R, FXD, COMPOSITION		CFY	EA	1	
B-11	24	PAEZZ	5905-00-728-6136	RCR070182JN	81349	RESISTOR, FXD, COMPOSITION		ASY	EA	1	
C	B-11	25	PAEZZ	5910-00-999-7768	CD10C101J03	93790	CAPACITOR, FXD, MICA		EA	1	
B-11	26	PAEZZ	5905-00-725-6995	RC0707271J	81349	RESISTOR, FXD, COMPOSITION		CFY	EA	1	
B-11	26	PAEZZ	5905-00-758-5230	RCR070271JN	81349	RESISTOR, FXD, COMPOSITION		ASY	EA	1	
C	B-11	27	PAEZZ	NS6655/2-0144	81349	CAPACITOR, FXD, ELECTROLYTIC		CFY	EA	1	
C	B-11	27	PAEZZ	5910-00-068-4298	NS9003-01-2356	81349	CAPACITOR, FXD, ELECTROLYTIC		ASY	EA	1
B-11	28	PAEZZ	5961-00-852-7549	JAKLJF54A	81349	SEMICONDUCTOR DEVICE, DIODE		EA	EA	1	
B-11	29	PAEZZ	5905-00-683-7721	RC0707101J	81349	RESISTOR, FXD, COMPOSITION		CFY	EA	3	
B-11	29	PAEZZ	5905-00-764-2180	RCR070101JN	81349	RESISTOR, FXD, COMPOSITION		ASY	EA	3	
B-11	30	PAEZZ	5905-00-683-2236	RC0707391J	81349	RESISTOR, FXD, COMPOSITION		CFY	EA	1	
B-11	30	PAEZZ	5905-00-773-0881	RCR070391JN	81349	RESISTOR, FXD, COMPOSITION		ASY	EA	1	
B-11	31	PAEZZ	5910-00-760-6878	DM15-102J	72136	CAPACITOR, FXD, MICA		EA	EA	1	
B-11	32	PAEZZ	5905-00-806-0636	RC0707330J	81349	RESISTOR, FXD, COMPOSITION		CFY	EA	2	
B-11	32	PAEZZ	5905-00-763-4056	RCR070330JN	81349	RESISTOR, FXD, COMPOSITION		ASY	EA	2	
B-11	33	PAEZZ	5950-00-902-4812	PTP4	80223	TRANSFORMER, PULSE		EA	EA	1	
B-11	34	PAEZZ	5905-00-683-2246	RC0707473J	81349	RESISTOR, FXD, COMPOSITION		CFY	EA	1	
B-11	34	PAEZZ	5905-00-776-7212	RCR070473JN	81349	RESISTOR, FXD, COMPOSITION		ASY	EA	1	
B-11	35	PAEZZ		128CPM1-62	13257	BUT, CLINCH, FLUSH MFG		EA	EA	2	
B-11	36	PAEZZ	5910-00-764-2540	CM06D392J03	81349	CAPACITOR, FXD, MICA		CFY	EA	1	
B-11	36	PAEZZ	5910-00-469-5621	CM06FD392J03	81349	CAPACITOR, FXD, MICA		ASY	EA	1	
B-11	37	PAEZZ	5905-00-116-8555	RC0707153J	81349	RESISTOR, FXD, COMPOSITION		CFY	EA	1	
B-11	37	PAEZZ	5905-00-728-6132	RCR070153JN	81349	RESISTOR, FXD, COMPOSITION		ASY	EA	1	
B-11	38	PAEZZ	5910-00-900-5296	CM06D202J03	81349	CAPACITOR, FXD, MICA		CFY	EA	1	
B-11	38	PAEZZ	5910-00-255-4054	CM06FD202J03	81349	CAPACITOR, FXD, MICA		ASY	EA	1	

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNBR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNST
(A) FIG NO.	(B) ITEM NO.							
GROUP: 010104 MODULE, SYNTHESIZER								
B-12		PAPER	5820-00-089-7882	1550162-100	05869	MODULE, SYNTHESIZER	CHY	EA 1
B-12		PAPER	5820-00-140-7397	1550162-101	05869	MODULE, SYNTHESIZER	ASY	EA 1
B-12	1	ASSEMB		1541002	05869	CRYSTAL SWITCH OSC ASSY	CHY	EA 1
B-12	1	ASSEMB		1596767	05869	CRYSTAL SWITCH OSC ASSY	ASY	EA 1
B-12	2	COVER		1540989	05869	COVER, SYNTHESIZER		EA 1
B-12	3	PAPER	5310-00-171-5119	222C7M41-26	13257	NUT, CLINCH FLASH MTO		EA 10
B-12	4	PAPER	5325-00-068-6532	MS35233-15	96906	SCREW, MACHINE		EA 4
B-12	5	PAPER	5310-00-734-5661	MS35337-76	96906	WASHER, LOCK		EA 18
B-12	6	PAPER	5310-00-723-9676	MS620C4L	80205	WASHER, FLAT		EA 18
B-12	7	ASSEMB		1540992	05869	OSC MIXER SYNTHESIZER	CHY	EA 1
B-12	7	ASSEMB		1596416	05869	OSC MIXER SYNTHESIZER	ASY	EA 1
B-12	8	PAPER	5820-00-135-3602	1540994	05869	CRYSTAL SWITCH ASSY	CHY	EA 1
B-12	8	PAPER		1596411	05869	CRYSTAL SWITCH ASSY	ASY	EA 1
B-12	9	ASSEMB		1559927	05869	CRYSTAL SWITCH ASSY	CHY	EA 1
B-12	9	ASSEMB		1596410	05869	CRYSTAL SWITCH ASSY	ASY	EA 1
B-12	10	PAPER	5950-00-704-1993	MS75008-40	96906	COIL, RF		EA 1
B-12	11	PAPER	5310-00-680-5270	22A27M22-40	72962	NUT, SELF-LOCK PLATE		EA 4
B-12	12	PAPER	5320-00-117-6010	MS20426AD2-3	96906	RIVET, SOLID	CHY	EA 12
B-12	13	PAPER	5320-00-233-4781	MS20426AD2-2	96906	RIVET, SOLID	ASY	EA 8
B-12	14	PAPER	5310-00-584-3782	MS660C4L	81349	WASHER, FLAT	ASY	EA 4
B-12	15	PAPER	5950-00-726-6756	MS75052-3	96906	COIL, RF		EA 2
B-12	16	PAPER	5910-00-863-5399	287A	91984	CAPACITOR, FID, CER		EA 8
B-12	17	PAPER	5970-00-829-2359	995057-029	09795	INSULATION, SLEEVING	CHY	EA 6
B-12	18	PAPER	5310-00-813-6950	MS1291002M	80205	NUT, SELF-LOCK	ASY	EA 2
B-12	19	PAPER	5310-00-043-4708	MS620C2	80205	WASHER, FLAT	ASY	EA 2
B-12	20	PAPER	5305-00-993-9189	MS24693C2	96906	SCREW, MACHINE	ASY	EA 1
B-12	21	PAPER	5910-00-109-0653	50023104X0500B3	56289	CAPACITOR, FID, CER		EA 1
B-12	22	BRACKET		1592641	05869	BRACKET, SWITCH	ASY	EA 1
B-12	23	PAPER	5940-00-903-1112	2168-12-01	78189	TERMINAL LUG		EA 7
B-12	24	PAPER	5305-00-777-6010	MS1081006D3	80205	SETSCREW		EA 8
B-12	25	PAPER	5305-00-531-9520	MS35233-2	96906	SCREW, MACHINE		EA 7
B-12	26	PAPER	3070-00-137-5862	1596483-002	05869	COUPLER, SWAPT		EA 4
B-12	27	PAPER	5305-00-145-5009	996722-101	70318	SCREW, PANHEAD		EA 1
B-12	28	NAMEPLATE		1599161-004	05869	NAMEPLATE	CHY	EA 1
B-12	28	NAMEPLATE		1596480-003	05869	NAMEPLATE	ASY	EA 1
B-12	29	PAPER		MS1081006D4	80205	SETSCREW	CHY	EA 2
B-12	30	PAPER	3040-00-089-5050	1540919	05869	COUPLER, SWAPT	CHY	EA 1
B-12	31	PAPER		399907	76854	WASHER, FLAT		EA 1
B-12	32	PAPER	5365-00-158-5658	996944-001	05046	SPACER, METALLIC		EA 1

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SECTION N REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCN	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-12	33	PAMZZ	5310-00-543-4652	MS33333-69	96906	WASHER, LOCK	CNY	EA	1
B-12	34	PAMZZ	5310-00-167-0797	AN96403	81349	WASHER, FLAT		EA	1
B-12	35	PAMZZ	5310-00-012-4294	NAS671C2	88203	NUT, PLAIN HEXAGON	CNY	EA	1
B-12	36	PAMZZ	5305-00-543-2767	MS3233-18	96906	SCREW, MACHINE		EA	12
B-12	37	AW00H		1540991	05069	AMPL-FILTER SYNTHESIZER	CNY	EA	1
B-12	37	AW00H		1596418	05069	AMPL-FILTER SYNTHESIZER	ASY	EA	1
R B-12	38	PAMZZ	5340-00-139-0024	1540990	05069	STANDOFF, SYNTHESIZER		EA	2
B-12	39	AW00H		1541000	05069	MIXER, AMPL SYNTHESIZER	CNY	EA	1
B-12	39	AW00H		1596415	05069	MIXER, AMPL SYNTHESIZER	ASY	EA	1
B-12	40	PAMZZ	5305-00-264-2317	ANS15C4-10	81349	SCREW, MACHINE	CNY	EA	2
B-12	41	AW00H		1559825	05069	MIXER AMPL ASSY	CNY	EA	1
B-12	41	AW00H		1596378	05069	MIXER AMPL ASSY	ASY	EA	1
R B-12	42	PAMZZ	5310-00-999-8644	505440-28	46384	NUT, STAND-OFF		EA	2
B-12	43	PAMZZ	5305-00-550-5082	MS3233-15	96906	SCREW, MACHINE		EA	2
B-12	44	PAMZZ	5310-00-050-3599	MS33335-37	96906	WASHER, LOCK		EA	1
R B-12	45	PAMZZ	5310-00-411-4456	505440-22	46384	NUT, STAND-OFF		EA	12
B-12	46	PAMZZ	5310-00-607-7715	22LHA27M22-62	13257	NUT, SELF-LKG PLATE	CNY	EA	2
B-12	46	PAMZZ	5310-00-043-7635	MF6001-06	75237	NUT, SELF-LKG PLATE	ASY	EA	2
B-12	47	PAMZZ	5320-00-117-6936	MS20426AD3-2	96906	RIVET, SOLID	ASY	EA	4
B-12	48	XB00H		1559159	05069	CHASSIS, SYNTHESIZER	CNY	EA	1
B-12	48	XB00H		1596350	05069	CHASSIS, SYNTHESIZER	ASY	EA	1
B-12	49	AW00D		1559345	05069	SWITCH OSC ASSY	CNY	EA	1
B-12	49	AW00D		1596412	05069	SWITCH OSC ASSY	ASY	EA	1
B-12	50	PAMZZ	5310-00-195-7574	995606-085	82577	WASHER, LOCK		EA	4
B-12	51	PAMZZ	5950-00-727-2600	MS75052-5	96906	COIL, R F		EA	3
B-12	52	PAMZZ	3010-00-137-5861	1596403-001	05069	COUPLER, SHAFT		EA	2
B-12	53	XB0ZZ	5940-00-726-9525	411-1904JJ4	75302	BARBIER, TERMINAL		EA	1
B-12	54	PAMZZ	5910-00-947-6563	160-107	74970	CAPACITOR, VAR, AIR		EA	1
B-12	55	PAMZZ	5910-00-192-2406	160-110	74970	CAPACITOR, VAR, AIR		EA	1
B-12	56	PAMZZ	5910-00-894-0734	CU10C050K03	93790	CAPACITOR, FIXD, MICA		EA	1
B-12	57	XB0ZZ		1540963	05069	COVER, SYNTHESIZER	CNY	EA	2
B-12	57	XB0ZZ		1596369	05069	COVER, SYNTHESIZER	ASY	EA	2
B-12	58	PAMZZ	5310-00-208-3786	NAS671C4	88203	NUT, PLAIN HEXAGON	ASY	EA	2
B-12	59	PAMZZ	5950-00-703-0987	MS75000-42	96906	COIL, R F		EA	2

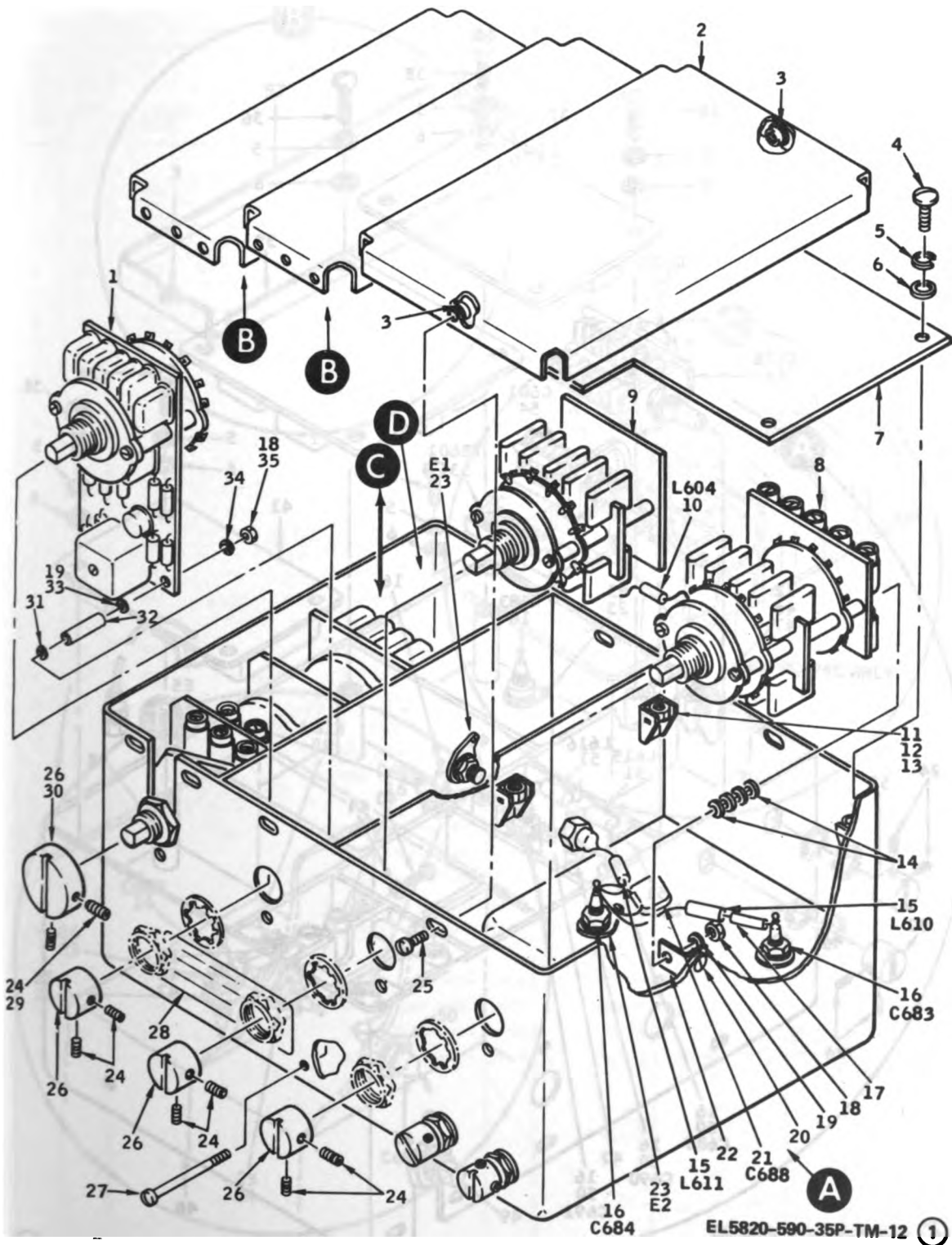


Figure B-12. Module, synthesizer

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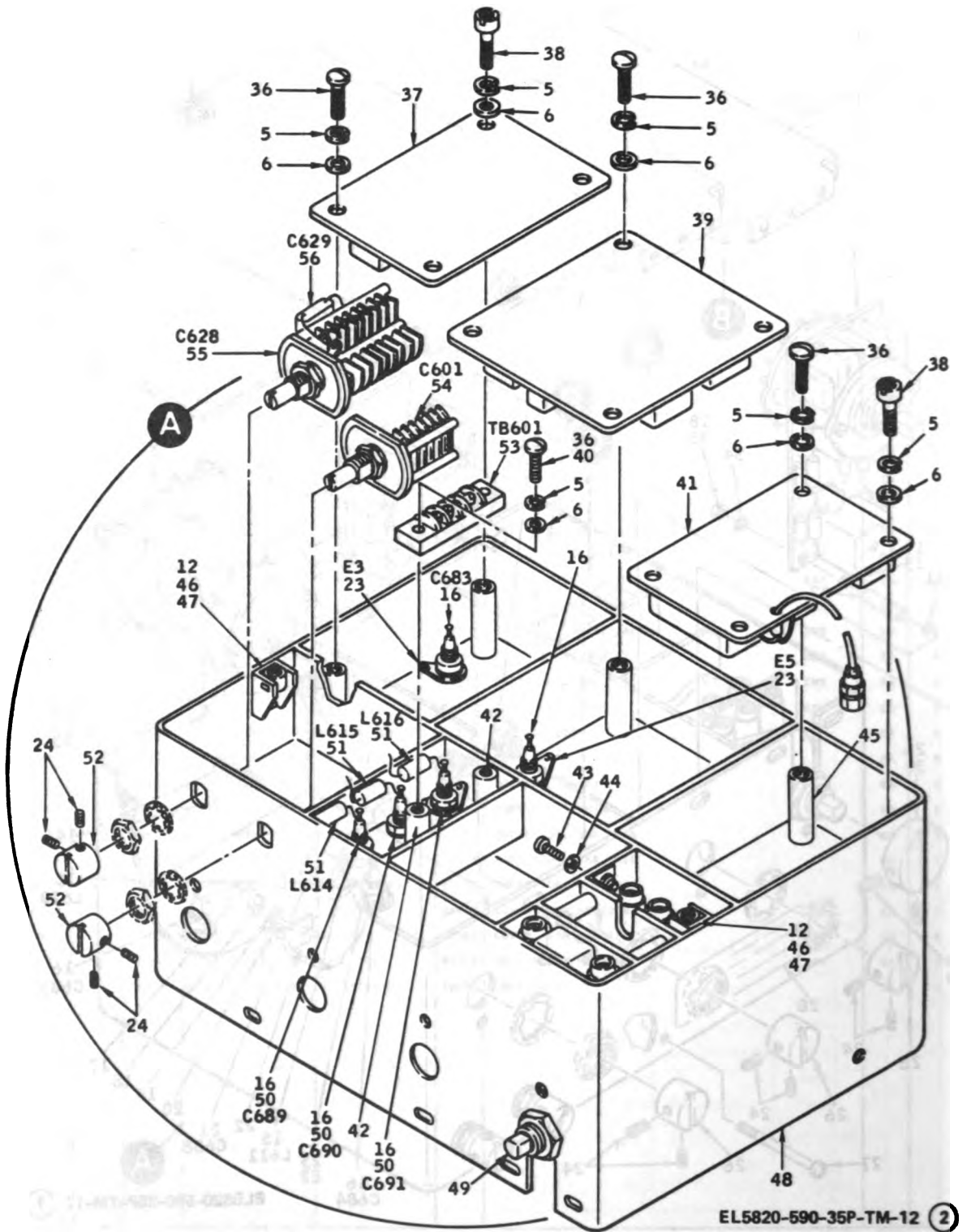
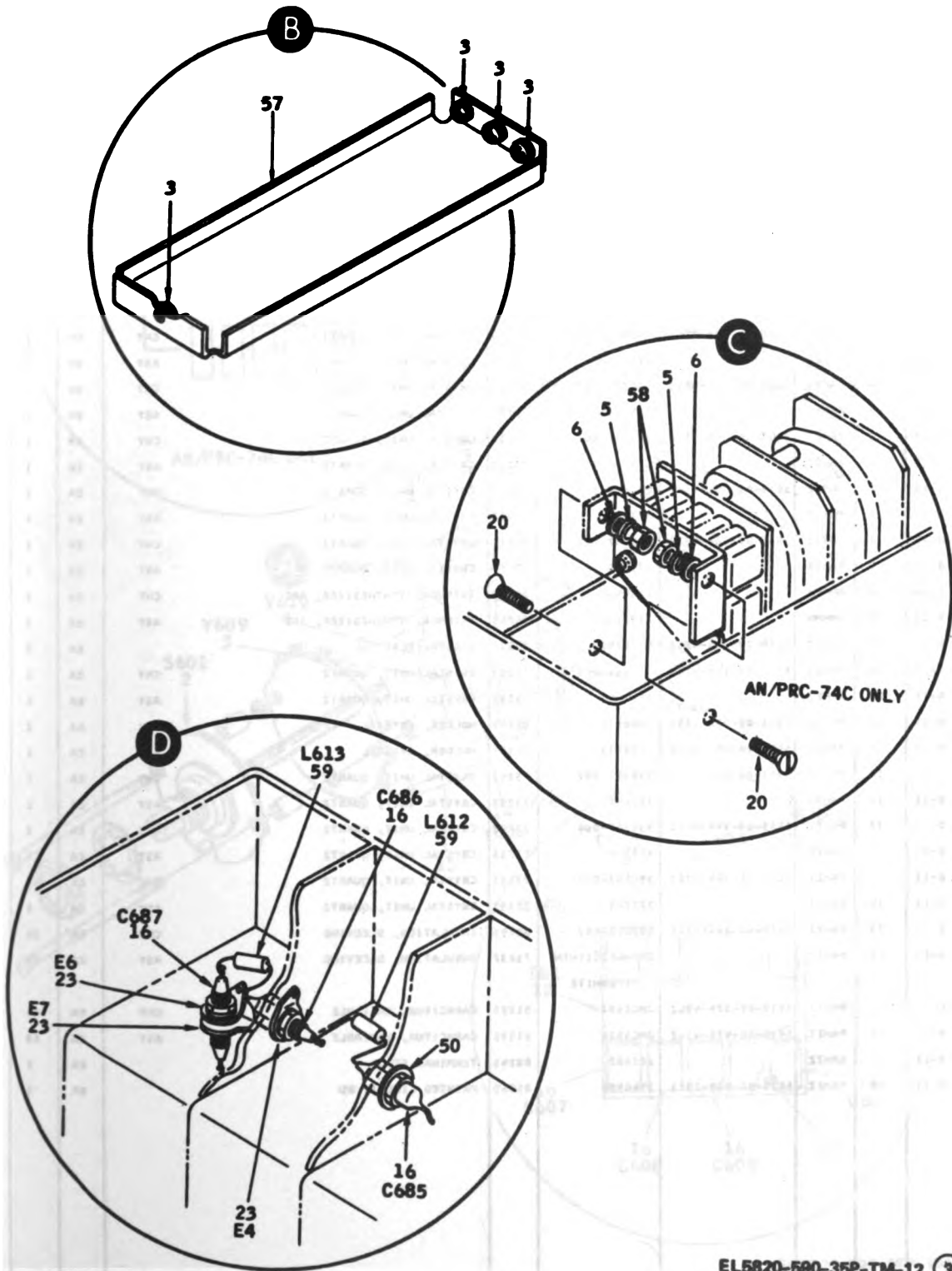


Figure B-12. Module, synthesizer

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Change 2



EL5820-500-35P-TM-12 (3)

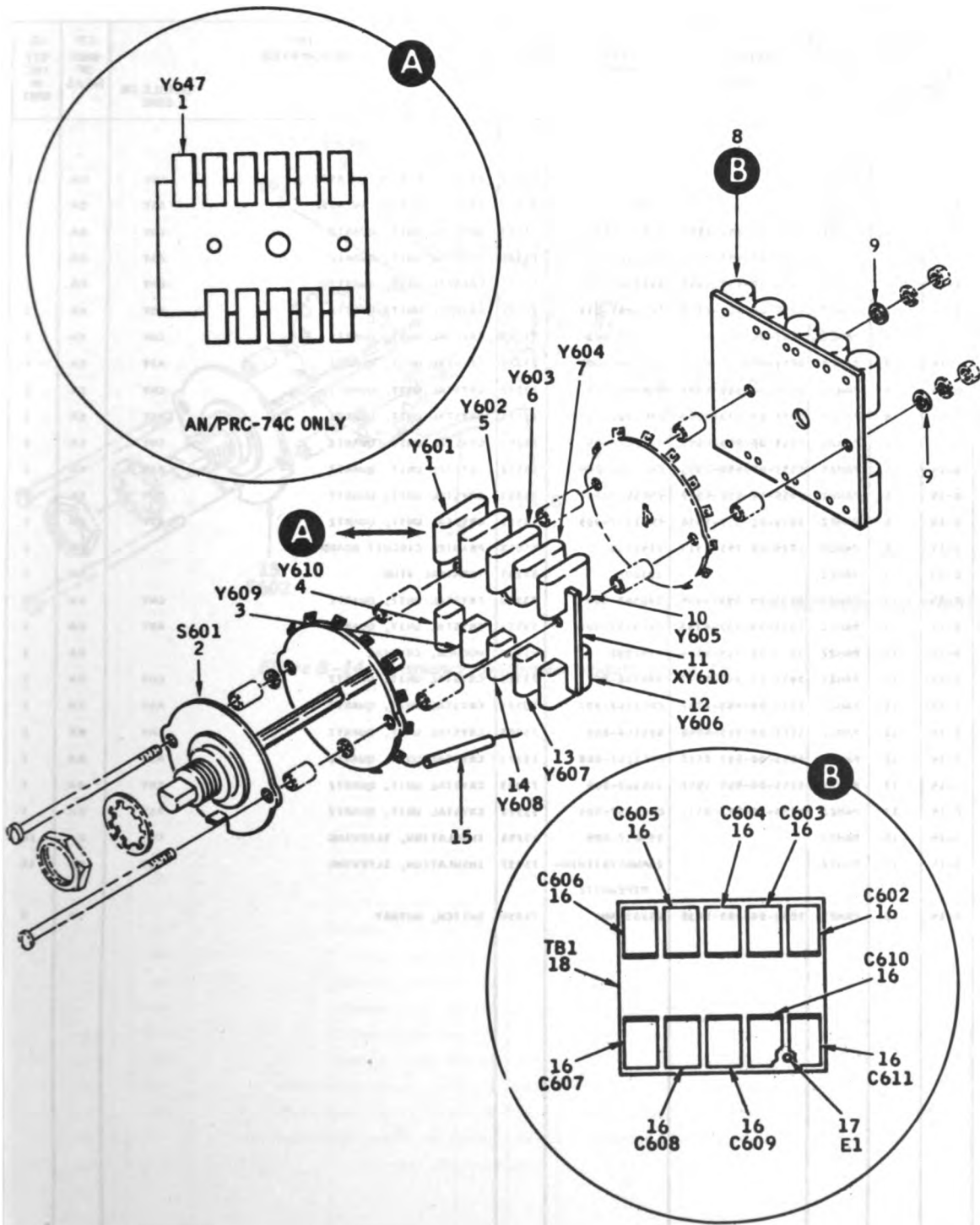
Figure B-12. Module, synthesizer

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SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-15		PAWZZ	5820-00-135-3602	1540994	05060	CRYSTAL SW ASSY 1KMZ	CNY	EA	1
B-13		PAWZZ		1596411	05069	CRYSTAL SW ASSY 1KMZ	ASY	EA	1
B-13	1	PAWZZ	5955-00-999-4939	996567-002	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
C B-13	1	PAWZZ		1757-2	73293	CRYSTAL UNIT, QUARTZ	ASY	EA	2
B-13	2	PAWZZ	5950-00-945-0135	235748AMZ	76854	SWITCH, ROTARY		EA	1
B-13	3	PAWZZ	5955-00-944-4769	996567-010	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
C B-13	3	PAWZZ		1757-10	73293	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-13	4	PAWZZ	5955-00-944-4665	996567-011	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
C B-13	4	PAWZZ		1757-11	73293	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-13	5	PAWZZ	5955-00-944-4666	996567-003	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
C B-13	5	PAWZZ		1757-3	73293	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-13	6	PAWZZ	5955-00-944-4667	996567-004	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
C B-13	6	PAWZZ		1757-4	73293	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-13	7	PAWZZ	5955-00-944-4779	996567-005	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
C B-13	7	PAWZZ		1757-5	73293	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-13	8	AWWMM		1540995	05060	TRIMMER, SYNTHESIZER, IRC	CNY	EA	1
B-13	8	AWWMM		1598111	05069	TRIMMER, SYNTHESIZER, IRC	ASY	EA	1
B-13	9	PAWZZ	5310-00-043-4764	NA5620C2	08205	WASHER, FLAT		EA	2
B-13	10	PAWZZ	5955-00-944-4780	567-006	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
C B-13	10	PAWZZ		1757-6	73293	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-13	11	PAWZZ	5955-00-999-4836	1540920	05060	HOLDER, CRYSTAL	CNY	EA	1
B-13	11	PAWZZ	5955-00-497-5813	1598019	05060	HOLDER, CRYSTAL	ASY	EA	1
B-13	12	PAWZZ	5955-00-944-4781	996567-007	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
C B-13	12	PAWZZ		1757-7	73293	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-13	13	PAWZZ	5955-00-944-4782	996567-008	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-13	13	PAWZZ		1757-8	73293	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-13	14	PAWZZ	5955-00-944-4783	996567-009	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
C B-13	14	PAWZZ		1757-9	73293	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-13	15	PAWZZ	5970-00-046-9116	995057-009	09795	INSULATION, SLEEVING	CNY	EA	20
B-13	15	PAWZZ		24AMG4201THIN PTPEWHITE	75037	INSULATION, SLEEVING	ASY	EA	20
B-13	16	PAWZZ	5910-00-124-4962	JWC3901	91293	CAPACITOR, VARIABLE	CNY	EA	10
B-13	16	PAWZZ	5910-00-478-4992	JWC5026	91293	CAPACITOR, VARIABLE	ASY	EA	10
B-13	17	PAWZZ		201002	08245	TERMINAL STUD		EA	1
B-13	18	PAWZZ	5820-00-999-7975	1540996	05060	PRINTED CIRCUIT 00		EA	1



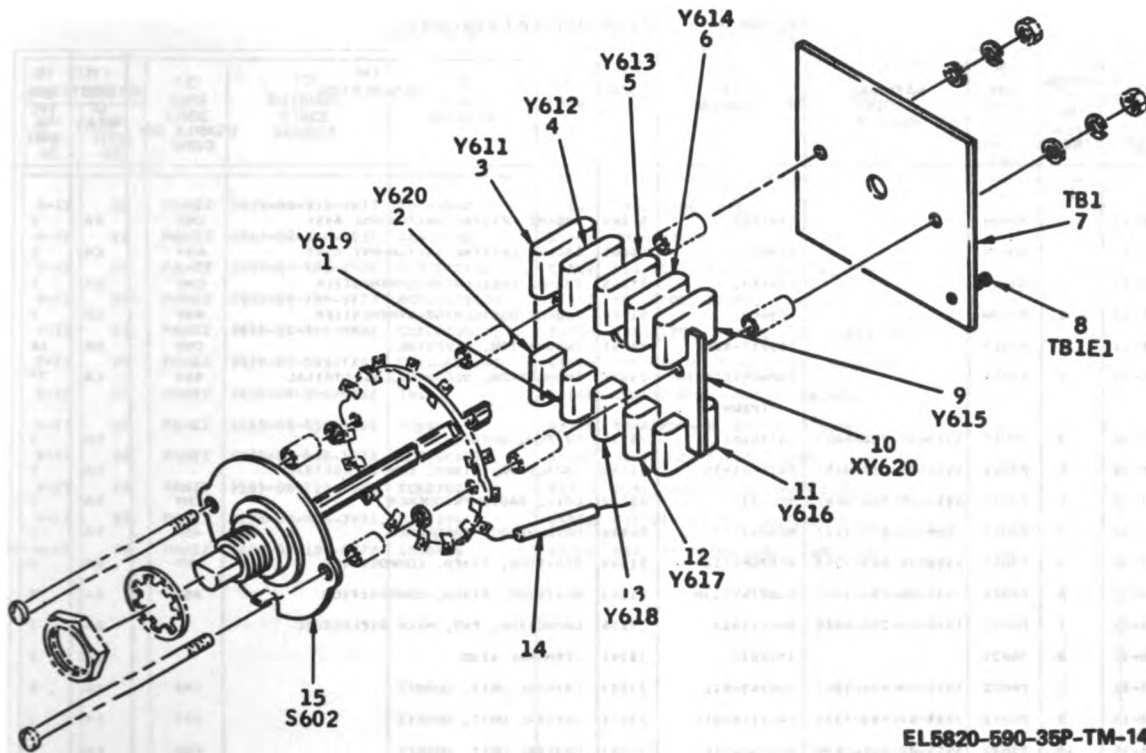
EL5820-590-35P-TM-13

Figure B-13. Frequency synthesizer module, switch A1 disassembly.

Change 2 B-51

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-14		AM001		1559927	05869	10 KHZ CRYSTAL SM ASSY	CNY	EA	1
B-14		AM001		1596410	05869	10 KHZ CRYSTAL SM ASSY	ASY	EA	1
B-14	1	PAMZZ	5955-00-999-4940	996568-010	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-14	1	PAMZZ	5955-00-497-5826	ERC1167-010	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-14	2	PAMZZ	5955-00-999-4949	996568-011	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-14	2	PAMZZ	5955-00-499-7330	ERC1167-011	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-14	3	PAMZZ	5955-00-999-4940	996568-002	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-14	3	PAMZZ	5955-00-137-4234	ERC1167-002	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-14	4	PAMZZ	5955-00-999-4941	996568-003	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-14	4	PAMZZ	5955-00-173-1390	ERC1167-003	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-14	5	PAMZZ	5955-00-999-4942	996568-004	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-14	5	PAMZZ	5955-00-499-7335	ERC1167-004	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-14	6	PAMZZ	5955-00-999-4943	996568-005	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-14	6	PAMZZ	5955-00-317-9436	ERC1167-005	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-14	7	PAMZZ	5820-00-945-4312	1540999	85869	PRINTED CIRCUIT BOARD		EA	1
B-14	8	PAMZZ		201002	88245	TERMINAL STUD		EA	1
B-14	9	PAMZZ	5955-00-999-4944	996568-006	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-14	9	PAMZZ	5955-00-137-4235	ERC1167-006	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-14	10	PAMZZ	5955-00-999-4836	1540998	85869	HOLDER, CRYSTAL		EA	1
B-14	11	PAMZZ	5955-00-999-4945	996568-007	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-14	11	PAMZZ	5955-00-499-7337	ERC1167-007	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-14	12	PAMZZ	5955-00-999-4946	996568-008	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-14	12	PAMZZ	5955-00-627-0518	ERC1167-008	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-14	13	PAMZZ	5955-00-999-4947	996568-009	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-14	13	PAMZZ	5955-00-627-0311	ERC1167-009	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-14	14	PAMZZ		995057-009	09795	INSULATION, SLEEVING	CNY	EA	10
B-14	14	PAMZZ		24AMG4201THIN- PTFEWHITE	75037	INSULATION, SLEEVING	ASY	EA	10
B-14	15	PAMZZ	5930-00-000-5636	250025AM1	76054	SWITCH, ROTARY		EA	1



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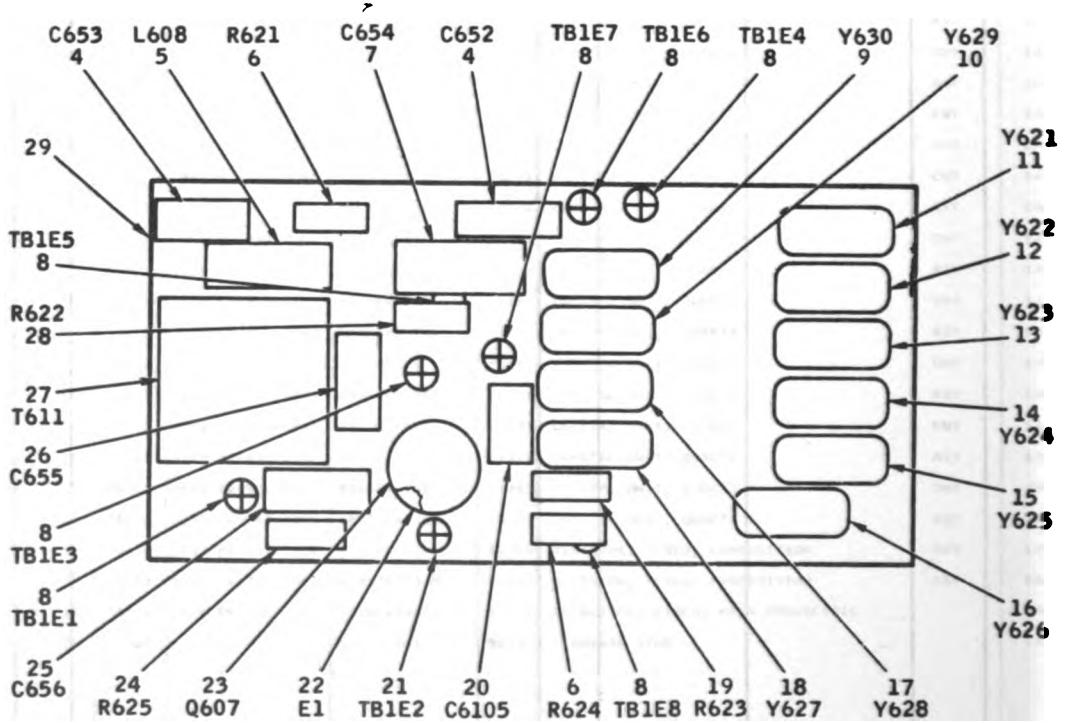
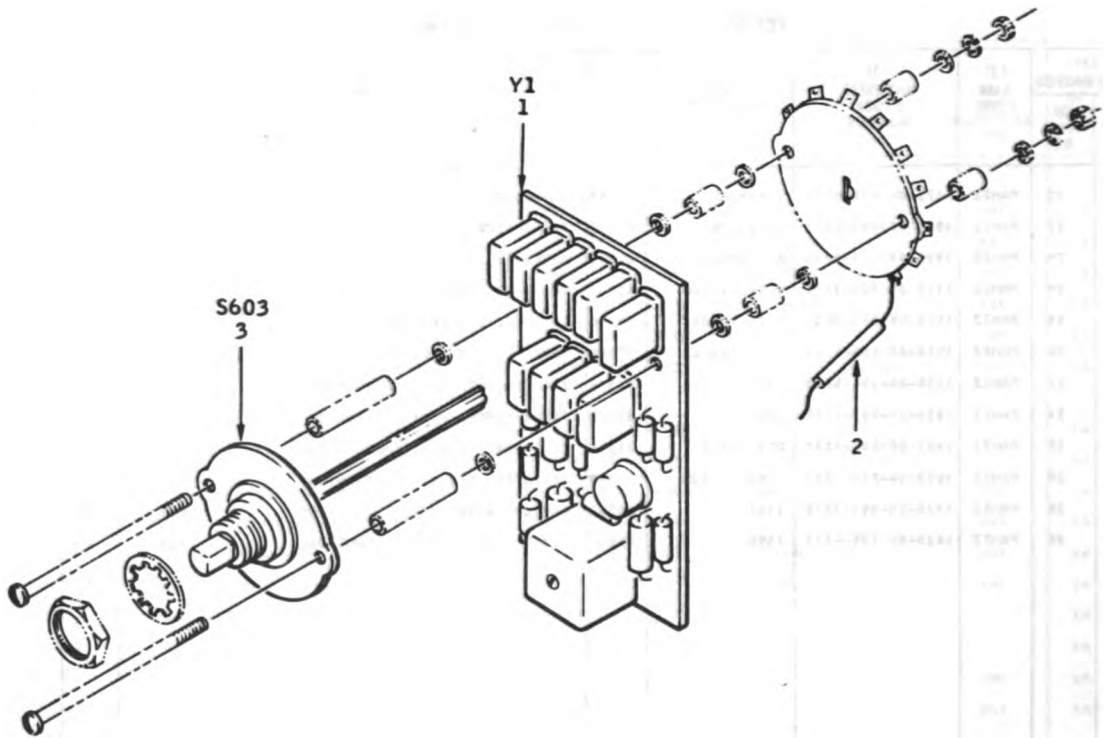
Figure B-14. Frequency synthesizer module, switch A2.

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE OM CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-15		AD00H		1541002	05869	100KHZ CRYSTAL SWITCH-OSC ASSY	CNY	EA	1
B-15		AD00H		1596767	05869	100KHZ CRYSTAL SWITCH-OSC ASSY	ASY	EA	1
B-15	1	AD00H		1541003	05869	100KHZ OSCILLATOR-SYNTHESIZER	CNY	EA	1
B-15	1	AD00H		1596482	05869	100KHZ OSCILLATOR-SYNTHESIZER	ASY	EA	1
B-15	2	PAHZZ		995057-009	09795	INSULATION, SLEEVING	CNY	EA	10
C	B-15	2	PAHZZ	24ANG42017M1N-PTPEWHITE	75037	INSULATION, SLEEVING, ELECTRICAL	ASY	LA	10
R	B-15	3	PAHZZ	5930-00-750-5461	257348A1	SWITCH, ROTARY		EA	1
B-15	4	PAHZZ	5910-00-857-9192	CK06CN103M	81349	CAPACITOR, FIXED, CER DIELECTRIC		EA	2
B-15	5	PAHZZ	5950-00-002-3607	RFC533	08742	COIL, RADIO FREQUENCY	CNY	EA	2
B-15	5	PAHZZ	5950-00-926-5127	MS00537-31	96906	COIL, RADIO FREQUENCY	ASY	EA	2
B-15	6	PAHZZ	5905-00-683-2242	RC07GF471J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	2
B-15	6	PAHZZ	5905-00-734-1045	RCR07G471JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	2
B-15	7	PAHZZ	5910-00-760-6070	DM15-102J	72156	CAPACITOR, FXD, MICA DIELECTRIC		EA	1
B-15	8	XANZZ		201002	08245	TERMINAL STUD		EA	7
B-15	9	PAHZZ	5955-00-999-4047	996569-011	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-15	9	PAHZZ	5955-00-999-7320	ERC1166-011	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-15	10	PAHZZ	5955-00-999-4046	996569-010	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-15	10	PAHZZ	5955-00-997-5026	ERC1166-010	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-15	11	PAHZZ	5955-00-999-4038	996569-002	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-15	11	PAHZZ	5955-00-997-5023	ERC1166-002	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-15	12	PAHZZ	5955-00-999-4039	996569-003	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-15	12	PAHZZ	5955-00-997-7700	ERC1166-003	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-15	13	PAHZZ	5955-00-999-4040	996569-004	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-15	13	PAHZZ		ERC1166-004	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-15	14	PAHZZ	5955-00-999-4041	996569-005	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-15	14	PAHZZ	5955-00-997-7701	ERC1166-005	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-15	15	PAHZZ	5955-00-999-4042	996569-006	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-15	15	PAHZZ	5955-00-997-7702	ERC1166-006	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-15	16	PAHZZ	5955-00-999-4043	996569-007	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-15	16	PAHZZ	5955-00-997-5024	ERC1166-007	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-15	17	PAHZZ	5955-00-999-4045	996569-009	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-15	17	PAHZZ	5955-00-997-7697	ERC1166-009	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-15	18	PAHZZ	5955-00-999-4044	996569-008	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-15	18	PAHZZ	5955-00-997-5025	ERC1166-008	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-15	19	PAHZZ	5905-00-683-2238	RC07GF103J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
B-15	19	PAHZZ	5905-00-734-1003	RCR07G103JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
B-15	20	PAHZZ	5910-00-999-7767	CD10C150J03	93790	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
B-15	21	XANZZ		MS17122-5	96906	TERMINAL STUD		EA	1

SECTION H REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-15	22	PAWZZ	5978-00-936-4973	10040AP	07047	INSULATOR, DISC		EA	1
B-15	23	PAWZZ	5961-00-842-6937	JAN2N706	81349	TRANSISTOR		EA	1
B-15	24	PAWZZ	5905-00-683-2239	RC076P201J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
B-15	24	PAWZZ	5905-00-764-2772	RCR076201JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
B-15	25	PAWZZ	5910-00-945-0009	CD10C200J03	93790	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
B-15	26	PAWZZ	5910-00-999-7769	CD10C390J03	93790	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
B-15	27	PAWZZ	5950-00-944-4653	10629	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
B-15	27	PAWZZ	5955-00-497-5786	15936	93550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
B-15	28	PAWZZ	5985-00-686-3838	RC076P273J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
B-15	28	PAWZZ	5985-00-754-7892	RCR076273JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
B-15	29	PAWZZ	5028-00-999-7978	1341004	05869	CIRCUIT BOARD-100KHZ-1MHZ OSC	CNY	EA	1
B-15	29	PAWZZ	5028-00-139-4879	1596419	05869	CIRCUIT BOARD-100KHZ-1MHZ OSC	ASY	EA	1



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Figure B-15. Frequency synthesizer module switch and component board.

B-56 Change 2

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-16		A0000		1559345	05869	SWITCH-OSC ASSY, 1MHZ	CNY	EA	1
B-16		A0000		1596412	05869	SWITCH-USC ASSY, 1MHZ	ASY	EA	1
B-16	1	PAHZZ		995057-809	09795	INSULATION, SLEEVING	CNY	EA	27
B-16	1	PAHZZ		2NANG4201THIN-PTFENWHITE	75037	INSULATION, SLEEVING	ASY	EA	27
B-16	2	XBMZZ		1558109	05869	TERMINAL BD NO.1	CNY	EA	1
B-16	2	XBMZZ		1596383	05869	TERMINAL BD NO.1	ASY	EA	1
B-16	3	XBMZZ	5938-00-879-4963	11154	14148	SWITCH, ROTARY		EA	1
B-16	4	A000H		1558049	05869	TERMINAL BD NO.2	CNY	EA	1
B-16	4	A000H		1596380	05869	TERMINAL BD NO.2	ASY	EA	1
B-16	5	PAMZZ	5318-00-543-4652	MS35333-69	96906	WASHER, LOCK		EA	3
B-16	6	PAMZZ	5318-09-043-4708	NAS620C2	80205	WASHER, FLAT		EA	6
B-16	7	PAMZZ	5305-00-531-9521	MS35233-3	96906	SCREW, MACHINE	CNY	EA	3
B-16	7	PAMZZ	5305-00-054-5637	MS1957-3	96906	SCREW, MACHINE	ASY	EA	3
B-16	8	PAMZZ	5348-00-007-1586	1558383	05869	CLIP, RETAINING		EA	1
B-16	9	A000H		1559592	05869	BOARD, COMPONENT	CNY	EA	1
B-16	9	A000H		1596381	05869	BOARD, COMPONENT	ASY	EA	1
B-16	10	A000H		1557637	05869	TERMINAL BD NO.4	CNY	EA	1
B-16	10	A000H		1596360	05869	TERMINAL BD NO.4	ASY	EA	1
B-16	11	XBMZZ		1592640	05869	BRACKET, SWITCH	ASY	EA	1
B-16	12	PAMZZ	5910-00-124-4962	JMC3901	91293	CAPACITOR, VAR, AIR, DIELECTRIC	CNY	EA	16
B-16	12	PAMZZ	5910-00-478-4392	JMC5026	91293	CAPACITOR, VAR, AIR, DIELECTRIC	ASY	EA	1
B-16	13	PAMZZ	5918-00-893-6745	CK05CW102K	81349	CAPACITOR, FXD, CERAMIC		EA	
B-16	14	PAMZZ	5905-00-683-2238	RC07GF103J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-16	14	PAMZZ	5905-00-734-1803	RCR07G103JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-16	15	PAMZZ	5905-00-683-2242	RC07GF471J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	2
B-16	15	PAMZZ	5905-00-734-1845	RCR07G471JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	2
B-16	16	PAMZZ	5910-00-879-4970	CD10C500J03	93790	CAPACITOR, FXD, MICA		EA	2
B-16	17	PAMZZ	5961-00-226-1755	1019NDAP	07047	INSULATOR, XSTR		EA	1
B-16	18	PAMZZ	5961-00-879-3889	2N786A	04713	TRANSISTOR		EA	1
B-16	19	PAMZZ	5905-00-755-8389	RC07GF228J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-16	19	PAMZZ	5905-00-773-8769	RCR07G228JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-16	20	PAMZZ		MS17122-5	96906	TERMINAL STUD		EA	1
B-16	21	PAMZZ	5910-00-945-8009	CD10C200J03	93790	CAPACITOR, FXD, MICA		EA	1
B-16	22	PAMZZ	5938-00-944-4655	10630	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
B-16	22	PAMZZ	5938-00-497-5787	15957	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
B-16	23	PAMZZ	5970-00-503-6351	1559243	05869	INSULATOR, XFMR		EA	1
B-16	24	PAMZZ	5905-00-686-3838	RC07GF273J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-16	24	PAMZZ	5905-00-734-7892	RCR07G273JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE CN CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
0-16	25	PAWZZ	5910-00-857-9192	CK06CM103M	81309	CAPACITOR, FXD, CERAMIC		EA	2
0-16	26	PAWZZ	5958-00-703-0907	MS75008-42	96906	COIL, RADIO FREQUENCY		EA	1
0-16	27	XAWZZ		PR110-3	03046	TERMINAL STUD	CNY	EA	5
0-16	27	XAWZZ		201002	88205	TERMINAL STUD	ASY	EA	5
0-16	28	XAWZZ		A1486-FINISH	57771	EYELET, METALLIC	CNY	EA	2
0-16	29	PAWZZ	5820-00-878-7305	1558190	05869	PRINTED CIRCUIT BOARD	CNY	EA	1
0-16	29	XBWZZ	5820-00-139-4882	1596580	05869	PRINTED CIRCUIT BOARD	ASY	EA	1
0-16	30	XAWZZ		959900256-14	06548	SPACER, STANDOFF		EA	3
0-16	31	PAWZZ	6145-00-814-1209	RG196A/U	81349	CABLE, RF, COAXIAL		EA	1
0-16	32	PAWZZ	5910-00-999-7770	CD10C330J03	93790	CAPACITOR, FXD, MICA		EA	1
0-16	33	PAWZZ	5910-00-926-2362	CD10C300J03	93790	CAPACITOR, FXD, MICA		EA	1
0-16	34	PAWZZ	5910-00-999-7769	CD10C390J03	93790	CAPACITOR, FXD, MICA		EA	1
0-16	35	PAWZZ	5910-00-763-6761	CD10C240J03	93790	CAPACITOR, FXD, MICA		EA	1
0-16	36	PAWZZ	5910-00-864-4694	CD10C470J03	93790	CAPACITOR, FXD, MICA		EA	1
0-16	37	PAWZZ	5820-00-878-7316	1558058	05869	PRINTED CIRCUIT BOARD	CNY	EA	1
0-16	37	PAWZZ	5820-00-139-4883	1596577	05869	PRINTED CIRCUIT BOARD	ASY	EA	1
0-16	38	PAWZZ	5910-00-894-0734	CD10C050K03	93790	CAPACITOR, FXD, MICA		EA	2
0-16	39	PAWZZ		CD10C560J03	93790	CAPACITOR, FXD, MICA		EA	1
0-16	40	PAWZZ	5910-00-999-7767	CD10C150J03	93790	CAPACITOR, FXD, MICA		EA	1
0-16	41	PAWZZ	5910-00-763-6748	CD10C120J03	93790	CAPACITOR, FXD, MICA		EA	1
0-16	42	PAWZZ	5820-00-878-7314	1559593	05869	PRINTED CIRCUIT BOARD	CNY	EA	1
0-16	42	PAWZZ	5820-00-139-4884	1596587	05869	PRINTED CIRCUIT BOARD	ASY	EA	1
0-16	43	PAWZZ	5955-00-999-4951	996569-017	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
0-16	43	PAWZZ	5955-00-999-4951	ERC1166-017	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
0-16	44	PAWZZ	5955-00-999-4952	996569-016	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
0-16	44	PAWZZ	5955-00-999-7324	ERC1166-016	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
0-16	45	PAWZZ	5955-00-999-4953	996569-015	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
0-16	45	PAWZZ	5955-00-999-7325	ERC1166-015	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
0-16	46	PAWZZ	5955-00-999-4954	996569-014	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
0-16	46	PAWZZ	5955-00-999-7322	ERC1166-014	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
0-16	47	PAWZZ	5955-00-999-4955	996569-013	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
0-16	47	PAWZZ	5955-00-139-4233	ERC1166-013	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
0-16	48	PAWZZ	5955-00-999-4956	996569-012	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
0-16	48	PAWZZ	5955-00-517-9446	ERC1166-012	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
0-16	49	PAWZZ	5955-00-878-7823	996569-026	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
0-16	49	PAWZZ	5955-00-999-7333	ERC1166-026	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
0-16	50	PAWZZ	5955-00-878-7019	996569-025	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
0-16	50	PAWZZ	5955-00-999-7332	ERC1166-025	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
0-16	51	PAWZZ	5955-00-878-7020	996569-024	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
0-16	51	PAWZZ	5955-00-999-7331	ERC1166-024	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1

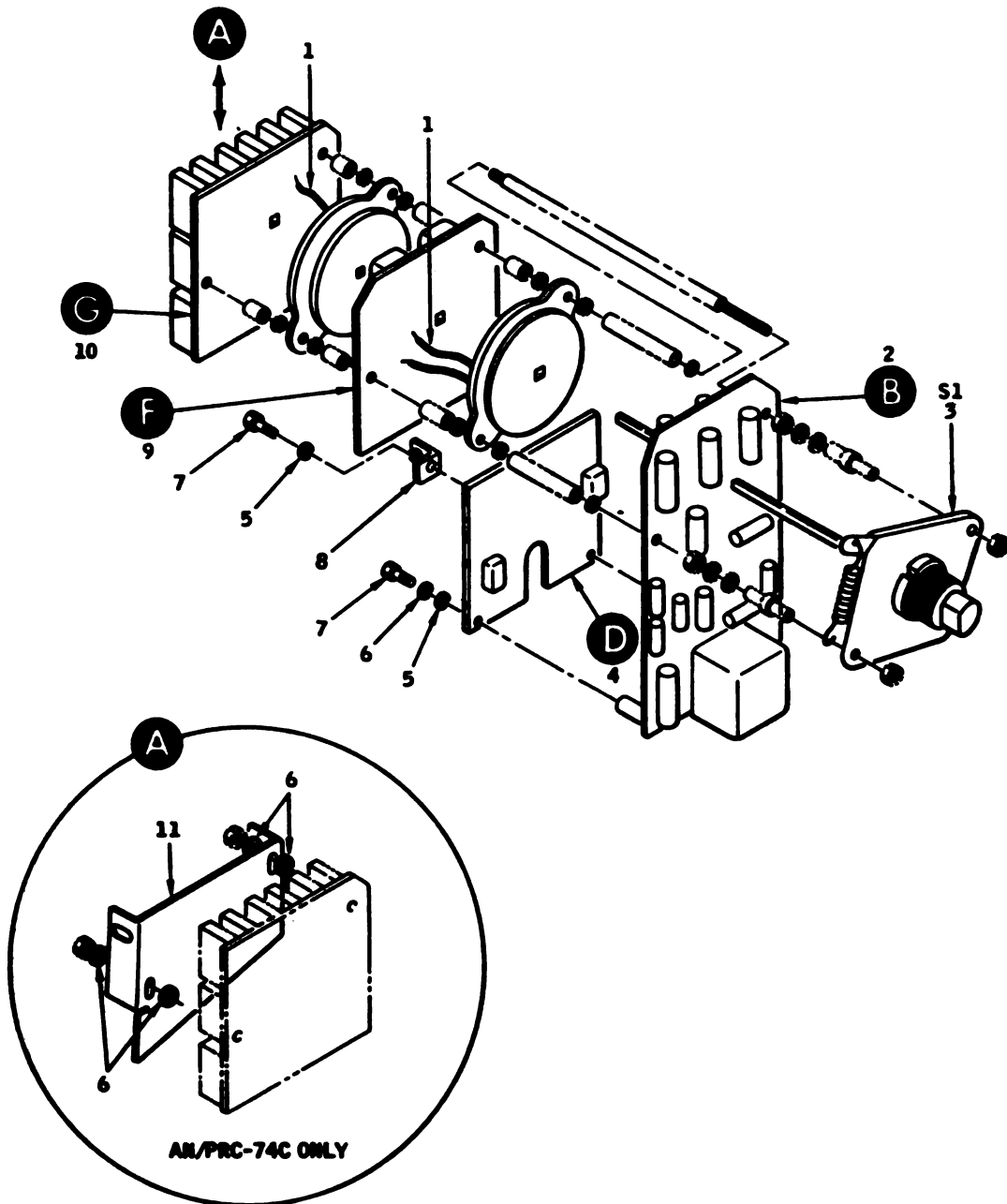
SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-16	52	PAHZZ	5955-00-878-7036	996569-023	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-16	52	PAHZZ	5955-00-499-7330	ERC1166-023	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-16	53	PAHZZ	5955-00-999-4846	996569-010	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-16	53	PAHZZ	5955-00-497-5826	ERC1166-010	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-16	54	PAHZZ	5955-00-878-7025	996569-022	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-16	54	PAHZZ	5955-00-499-7329	ERC1166-022	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-16	55	PAHZZ	5955-00-999-4936	996569-021	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-16	55	PAHZZ	5955-00-499-7328	ERC1166-021	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-16	56	PAHZZ	5955-00-999-4937	996569-020	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-16	56	PAHZZ	5955-00-499-7327	ERC1166-020	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-16	57	PAHZZ	5955-00-999-4938	996569-019	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-16	57	PAHZZ	5955-00-499-7326	ERC1166-019	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-16	58	PAHZZ	5955-00-999-4950	996569-018	73293	CRYSTAL UNIT, QUARTZ	CNY	EA	1
B-16	58	PAHZZ	5955-00-173-1347	ERC1166-018	13571	CRYSTAL UNIT, QUARTZ	ASY	EA	1
B-16	59	PAHZZ	5820-00-878-7318	155763G	05869	PRINTED CIRCUIT BOARD	CNY	EA	1
B-16	59	PAHZZ	5820-00-139-4892	1596589	05869	PRINTED CIRCUIT BOARD	ASY	EA	1

6196 A

Change 2

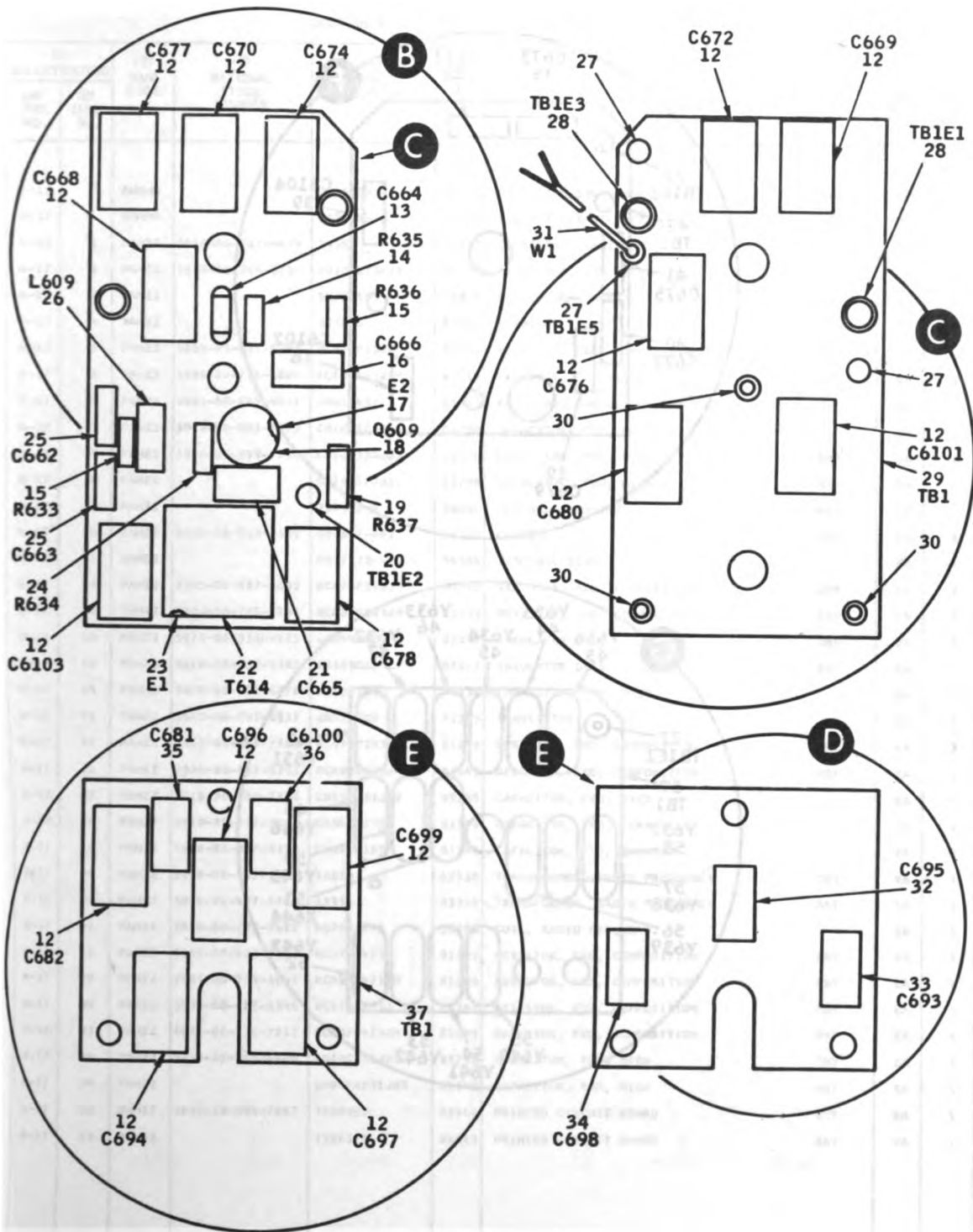
B-55



EL5520-500-35P-T15-16 (1)

Figure B-16. Frequency synthesizer module, switch A4 disassembly (Sheet 1 of 3).

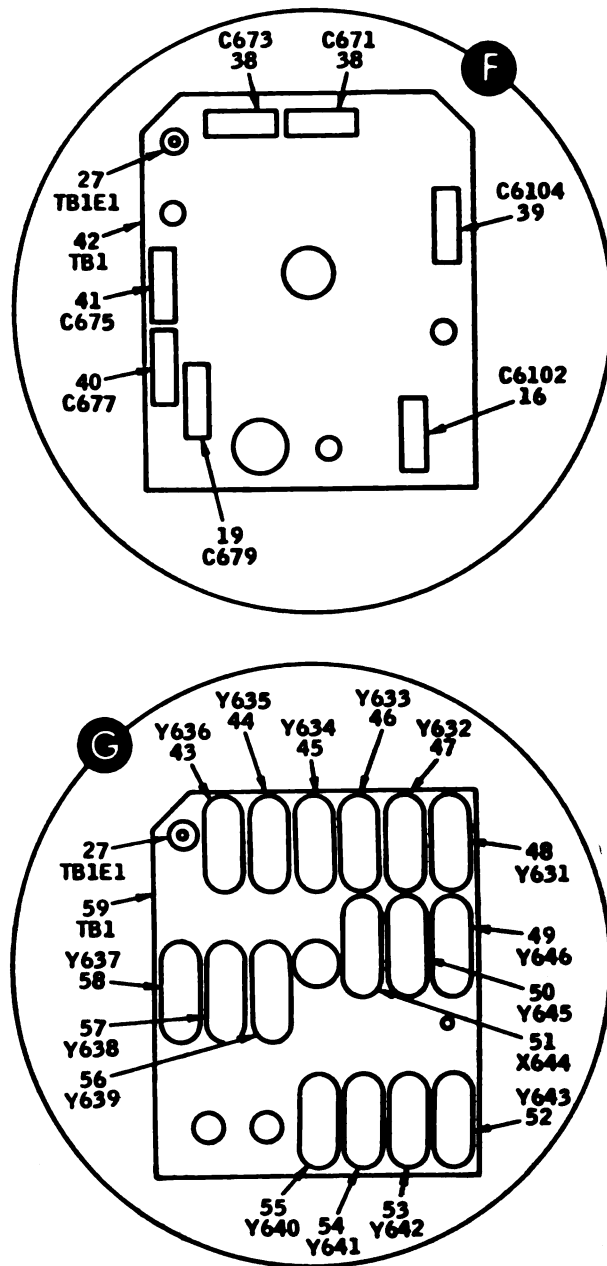
B-69 Change 2



EL5820-500-35P-TM-16 (R)

Figure B-16. Frequency synthesizer module, switch A4 disassembly (Sheet 2 of 3).

Change 2 B-01



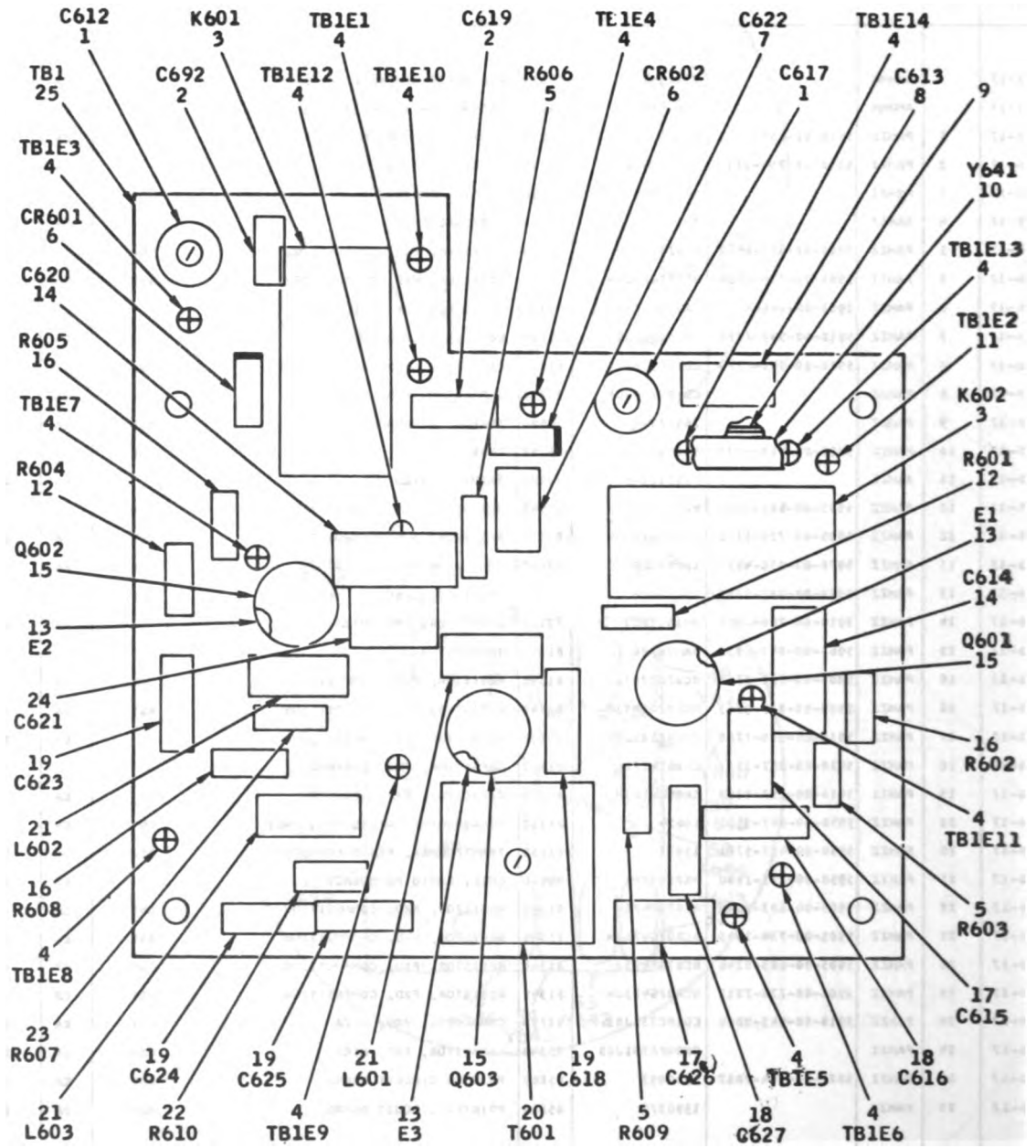
EL5820-500-36P-TM-16 (3)

Figure B-16. Frequency synthesizer module, switch A4 disassembly
(Sheet 3 of 3).

B-62 Change 2

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-17		AH00H		1540992	05869	OSC MIXER-SYNTHESIZER	CNY	EA	1
B-17		AH00H		1596416	05869	OSC MIXER-SYNTHESIZER	ASY	EA	1
B-17	1	PAHZZ	5910-00-267-9471	2950	91293	CAPACITOR, VARIABLE		EA	2
B-17	2	PAHZZ	5910-00-894-0734	CD10C059K03	93720	CAPACITOR, FXD, MICA		EA	2
B-17	3	PAHZZ		BR265191	09026	RELAY, ARMATURE		EA	2
B-17	4	XAHZZ		201002	80245	TERMINAL STUD		EA	13
B-17	5	PAHZZ	5905-00-681-6462	RC07GF182J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	3
B-17	5	PAHZZ	5905-00-734-0804	RCR07G192JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	3
B-17	6	PAHZZ	5961-00-646-4611	JAN1M457	81349	SEMICONDUCTOR DEVICE, DIODE		EA	2
B-17	7	PAHZZ	5910-00-999-7773	CD10C301J03	93790	CAPACITOR, FXD, MICA		EA	1
B-17	8	PAHZZ	5910-00-999-7773	CD10C336J03	93790	CAPACITOR, FXD, MICA	CNY	EA	1
B-17	8	PAHZZ		CD10C270J03	93790	CAPACITOR, FXD, MICA	ASY	EA	1
B-17	9	PAHZZ		760173-4	06090	TUBING, EXPANDED	ASY	EA	1
B-17	10	PAHZZ	5955-00-999-4939	990567-002	73293	CRYSTAL	CNY	EA	1
B-17	11	XAHZZ		MS17122-5	96906	TERMINAL STUD		EA	1
B-17	12	PAHZZ	5905-00-687-0002	RC07GF223J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	2
B-17	12	PAHZZ	5905-00-720-6141	RCR07G223JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	2
B-17	13	PAHZZ	5970-00-956-4973	1004NDAP	07047	INSULATOR DISC	CNY	EA	3
B-17	15	PAHZZ	5970-00-052-9503	10109DAP	07047	INSULATOR DISC	ASY	EA	3
B-17	14	PAHZZ	5910-00-760-6878	DM15-182J	72136	CAPACITOR, FXD, MICA		EA	2
B-17	15	PAHZZ	5961-00-042-6937	JAN2N706	81349	TRANSISTOR		EA	3
B-17	16	PAHZZ	5905-00-686-3368	RC07GF203J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	3
B-17	16	PAHZZ	5905-00-807-9763	RCR07G203JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	3
B-17	17	PAHZZ	5910-00-999-7768	CD10C101J03	93790	CAPACITOR, FXD, MICA		EA	2
B-17	18	PAHZZ	5910-00-057-3931	CK06CW272K	81349	CAPACITOR, FXD, CERAMIC		EA	2
B-17	19	PAHZZ	5910-00-057-9192	CK06CW103M	81349	CAPACITOR, FXD, CERAMIC		EA	4
B-17	20	PAHZZ	5950-00-947-3141	10624	05550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
B-17	20	PAHZZ	5950-00-497-5781	15951	05550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
B-17	21	PAHZZ	5950-00-727-2600	MS75052-5	96006	COIL, RADIO FREQUENCY		EA	3
B-17	22	PAHZZ	5905-00-683-2242	RC07GF471J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-17	22	PAHZZ	5905-00-734-1045	RCR07G471JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-17	23	PAHZZ	5905-00-683-2246	RC07GF473J	81349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
B-17	23	PAHZZ	5905-00-776-7212	RCR07G473JM	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-17	24	PAHZZ	5910-00-945-0006	CD10C331J03	93790	CAPACITOR, FXD, MICA	CNY	EA	1
B-17	24	PAHZZ		CM04FA331J03	81349	CAPACITOR, FXD, MICA	ASY	EA	1
B-17	25	PAHZZ	5020-00-944-7067	1540993	05869	PRINTED CIRCUIT BOARD	CNY	EA	1
B-17	25	PAHZZ		1596579	05869	PRINTED CIRCUIT BOARD	ASY	EA	1



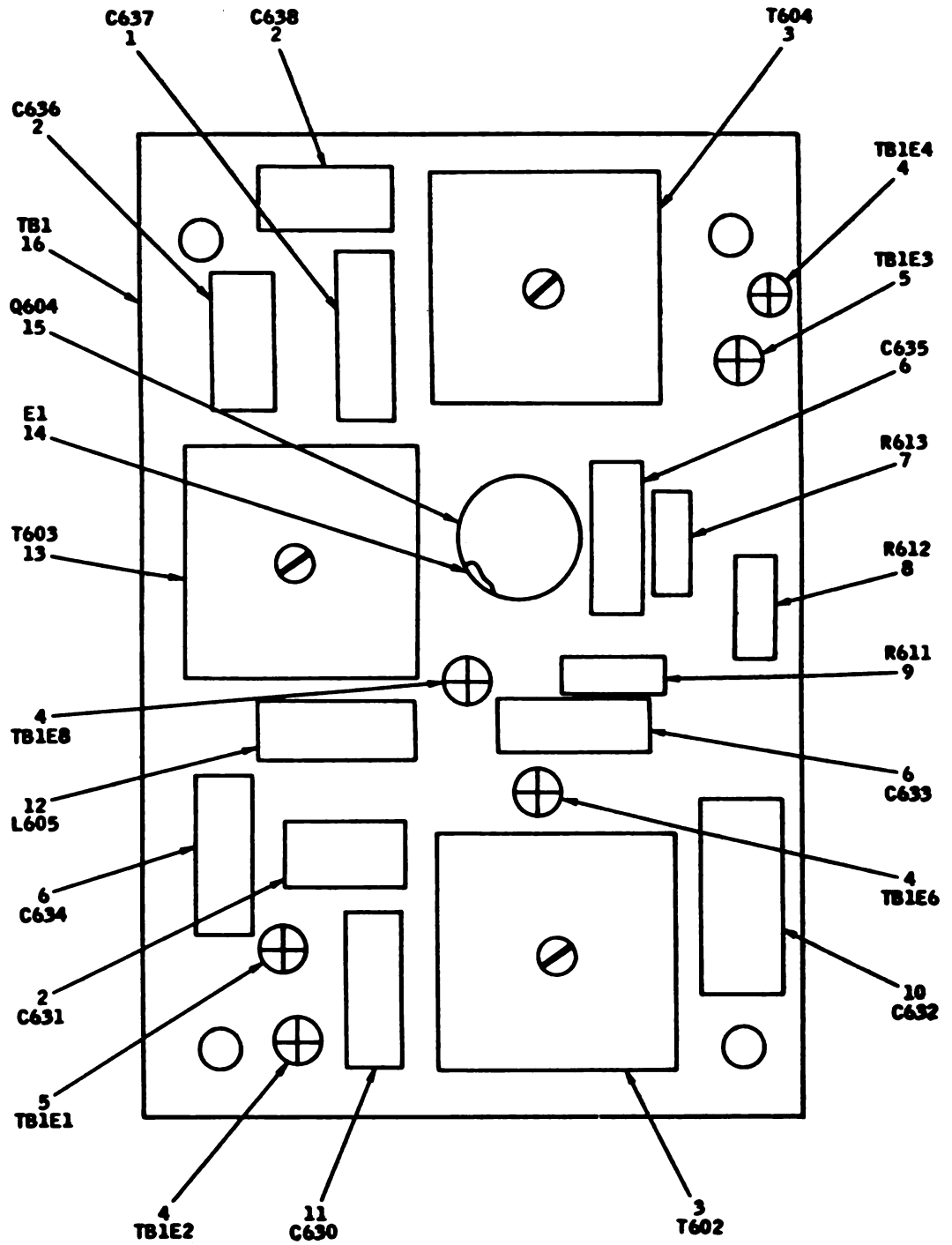
EL5820-600-35P-TM-17

Figure B-17. Circuit board, OSC mixer, synthesizer .

B-64 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SBR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FCNM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-18		AMNH		1540991	05869	AMPL-FILTER-10KHZ	CHY	EA	1
B-18		AMNH		1596418	05869	AMPL-FILTER-10KHZ	AST	EA	1
B-18	1	PAHX	9910-00-844-5809	CK06CV56X	81349	CAPACITOR, FXD, CERAMIC		EA	1
B-18	2	PAHX	9910-00-999-7768	CB10C101J03	93790	CAPACITOR, FXD, NICA		EA	3
B-18	3	PAHX	9950-00-946-5371	10685	03550	TRANSFORMER, RADIOFREQUENCY	CHY	EA	2
B-18	3	PAHX	9950-00-497-5784	19952	03550	TRANSFORMER, RADIOFREQUENCY	AST	EA	2
B-18	4	PAHX		MB17122-5	96906	TERMINAL SPID		EA	4
B-18	5	PAHX		201082	88245	TERMINAL SPID		EA	2
B-18	6	PAHX	9910-00-897-9198	SC8440-24	46384	CAPACITOR, FXD, CERAMIC		EA	3
B-18	7	PAHX	9905-00-681-0462	RC07GF10BJ	81349	RESISTOR, FXD, COMPOSITION	CHY	EA	1
B-18	7	PAHX	9905-00-734-0804	RC07G10BJM	81349	RESISTOR, FXD, COMPOSITION	AST	EA	1
B-18	8	PAHX	9905-00-686-1368	RC07GF203J	81349	RESISTOR, FXD, COMPOSITION	CHY	EA	1
B-18	8	PAHX	9905-00-887-9763	RC07G203JM	81349	RESISTOR, FXD, COMPOSITION	AST	EA	1
B-18	9	PAHX	9905-00-686-3838	RC07GF273J	81349	RESISTOR, FXD, COMPOSITION	CHY	EA	1
B-18	9	PAHX	9905-00-754-7892	RC07G273JM	81349	RESISTOR, FXD, COMPOSITION	AST	EA	1
B-18	10	PAHX	9910-00-615-5472	DE15-821J	72136	CAPACITOR, FXD, NICA		EA	1
B-18	11	PAHX	9910-00-057-3931	CK06CV872K	81349	CAPACITOR, FXD, CERAMIC		EA	1
B-18	12	PAHX	9950-00-726-6756	MT75058-3	96906	COIL, RADIOFREQUENCY		EA	1
B-18	13	PAHX	9950-00-946-5372	10686	03550	TRANSFORMER, RADIOFREQUENCY	CHY	EA	1
B-18	13	PAHX	9950-00-497-5785	19953	03550	TRANSFORMER, RADIOFREQUENCY	AST	EA	1
B-18	14	PAHX	9970-00-956-4973	10044DAP	07047	INSULATOR, DISC		EA	1
B-18	15	PAHX	9961-00-842-6937	JAN2HT06	81349	TRANSISTOR		EA	1
B-18	16	PAHX	5880-00-999-7976	1540941	05869	PRINTED CIRCUIT BOARD	CHY	EA	1
B-18	16	PAHX	5880-00-139-4894	1596592	05869	PRINTED CIRCUIT BOARD	AST	EA	1



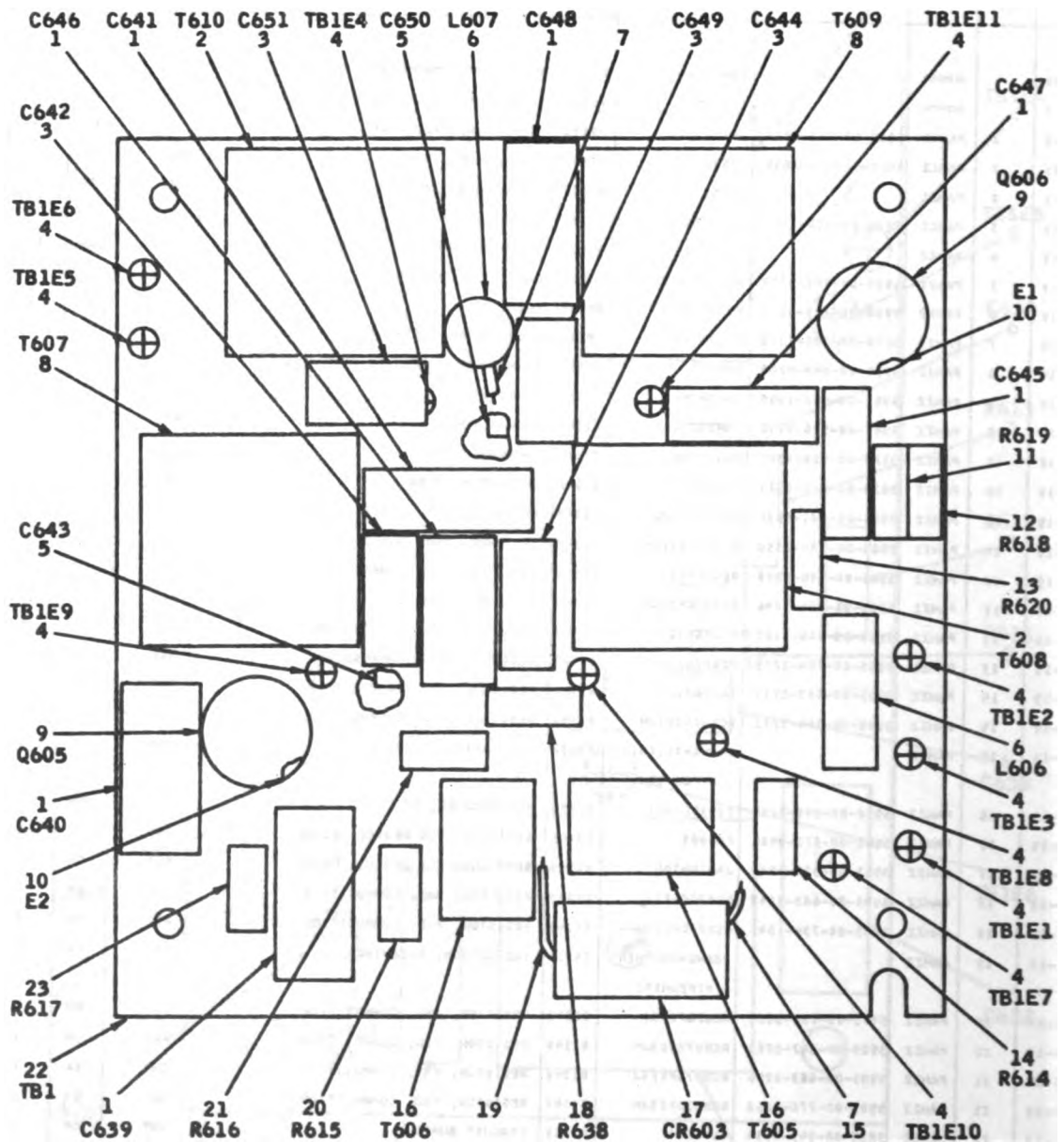
EL5820-500-35P-TM-18

Figure B-18. Circuit board, amplifier filter 10 kHz.

B-66 Change 2

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
0-19		AN000H		1541000	05869	MIXER-AMPL SYNTHESIZER 100KHZ	CNY	EA	1
0-19		AN000H		1596415	05869	MIXER-AMPL SYNTHESIZER 100KHZ	ASY	EA	1
0-19	1	PAHZZ	5910-00-760-0070	DM15-102J	72136	CAPACITOR, FXD, NICA		EA	4
0-19	2	PAHZZ	5950-00-944-4654	10620	03550	TRANSFORMER, RF	CNY	EA	2
0-19	2	PAHZZ		15955	03550	TRANSFORMER, RF	ASY	EA	2
0-19	3	PAHZZ	5910-00-926-2362	CD10C300J03	93790	CAPACITOR, FXD, NICA		EA	4
0-19	4	XAMZZ		MS17122-5	96906	TERMINAL STUD		EA	11
0-19	5	PAHZZ	5910-00-002-3775	GAL-SPF5PCT	78400	CAPACITOR, VARIABLE		EA	2
0-19	6	PAHZZ	5950-00-703-0907	MS75000-42	96906	COIL, RF		EA	2
0-19	7	PAHZZ	5970-00-029-2339	995057-029	09795	INSULATION, SLEEVING	CNY	EA	3
0-19	8	PAHZZ	5950-00-944-4760	10627	03550	TRANSFORMER, RF	CNY	EA	2
0-19	9	PAHZZ	5961-00-052-2090	JAN2M744	01349	TRANSISTOR	CNY	EA	2
0-19	9	PAHZZ	5961-00-926-0237	JAN2M2369A	01349	TRANSISTOR	ASY	EA	2
0-19	10	PAHZZ	5970-00-956-4973	10040DAP	07047	INSULATOR, DISC	CNY	EA	2
0-19	10	PAHZZ	5970-00-052-9583	10109DAP	07047	INSULATOR, DISC	ASY	EA	2
0-19	11	PAHZZ	5905-00-601-9970	RC07GP822J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
0-19	11	PAHZZ	5905-00-734-1150	RCR07G822JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
0-19	12	PAHZZ	5905-00-606-9990	RC07GP472J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
0-19	12	PAHZZ	5905-00-734-1046	RCR07G472JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
0-19	13	PAHZZ	5905-00-606-3122	RC07GP301J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
0-19	13	PAHZZ	5905-00-764-2775	RCR07G301JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
0-19	14	PAHZZ	5905-00-603-2239	RC07GP201J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
0-19	14	PAHZZ	5905-00-764-2772	RCR07G201JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
0-19	15	PAHZZ		20AMG4201THIN PTFEWHITE	75037	INSULATION, SLEEVING	ASY	EA	1
0-19	16	PAHZZ	5950-00-945-3754	995546-001	22224	TRANSFORMER, RF		EA	2
0-19	17	PAHZZ	5961-00-572-9406	FA2003	13715	SEMICONDUCTOR DEVICE, DIODE	CNY	EA	1
0-19	17	PAHZZ	5961-00-924-4022	JAN1M4306	01349	SEMICONDUCTOR DEVICE, DIODE	ASY	EA	1
0-19	18	PAHZZ	5905-00-603-2242	RC07GP471J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
0-19	18	PAHZZ	5905-00-734-1045	RCR07G471JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
0-19	19	PAHZZ		20AMG4201THIN PTFEWHITE	75037	INSULATION, SLEEVING	ASY	EA	1
0-19	20	PAHZZ	5905-00-606-3360	RC07GP205J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
0-19	20	PAHZZ	5905-00-007-9763	RCR07G205JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
0-19	21	PAHZZ	5905-00-603-2246	RCR07GP473J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
0-19	21	PAHZZ	5905-00-776-6212	RCR07G473JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
0-19	22	XBMZZ	5820-00-945-4314	1541001	05869	CIRCUIT BOARD	CNY	EA	1
0-19	22	XBMZZ	5820-00-439-4006	1596599	05869	CIRCUIT BOARD	ASY	EA	1
0-19	23	PAHZZ	5905-00-601-4462	RC07GF102J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
0-19	23	PAHZZ	5905-00-734-0004	RCR07G102JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1



EL5820-500-30P-TM-10

Figure B-19. Circuit board, frequency synthesizer module

B-66 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

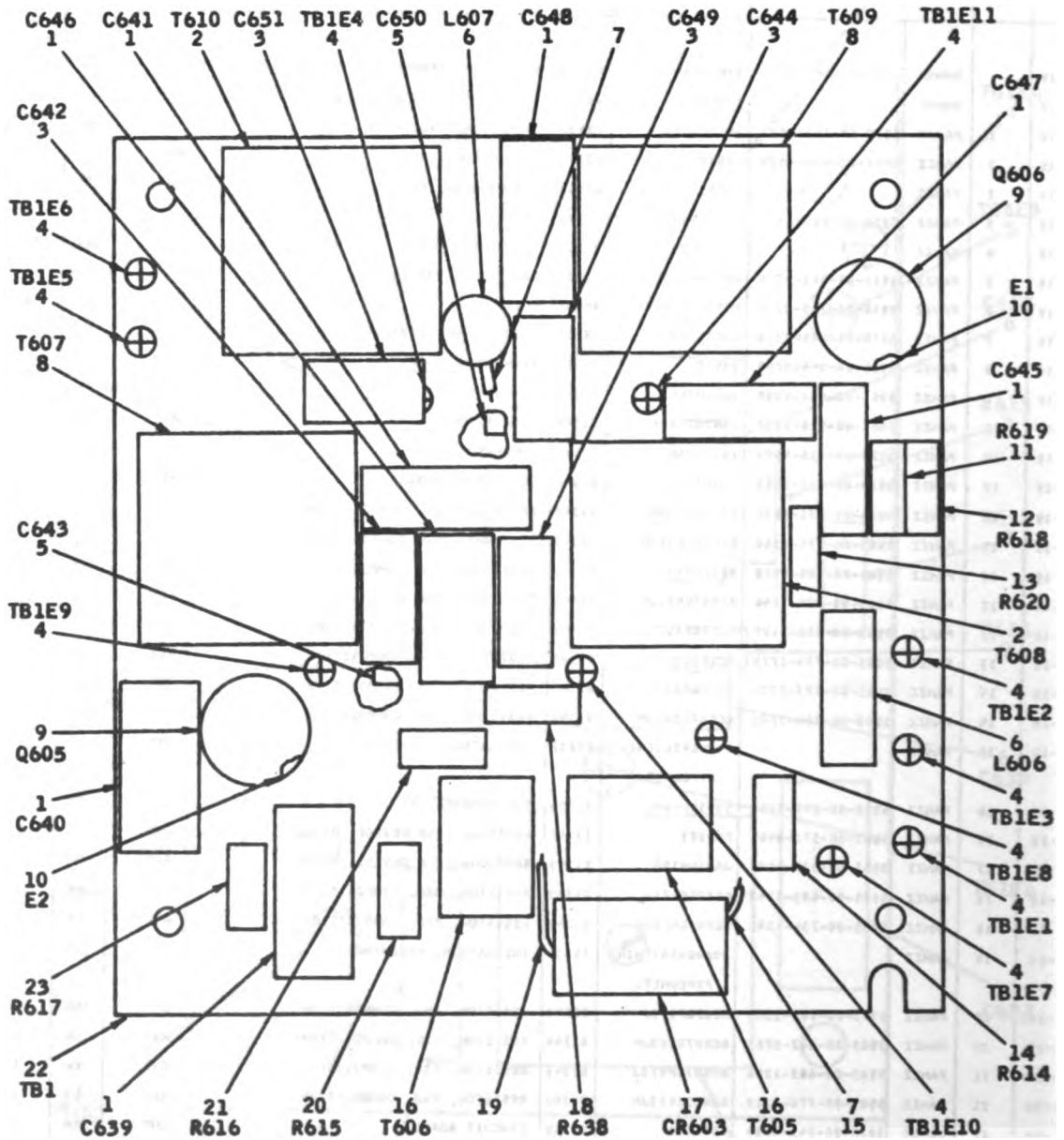
TN 11-5820-990-35-1

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) PSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
3-20		ANRRE		1559825	05869	1 MIX MIXER-AMPLIFIER ASSEMBLY	CFY	EA	1
3-20		ANRRE		1596378	05869	1 MIX MIXER-AMPLIFIER ASSEMBLY	ASY	EA	1
3-20	1	PARRE	5905-00-683-2236	RC070F391J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	1
3-20	1	PARRE	5905-00-773-0881	RC070G391JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-20	2	PARRE	5910-00-615-5472	DL15-821J	72136	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
3-20	3	PARRE	5915-00-879-4971	VE13421	03550	FILTER, LOW PASS	CFY	EA	1
3-20	3	PARRE		70048	05254	FILTER, LOW PASS	ASY	EA	1
3-20	4	XARRE		201082	88245	TERMINAL STUD		EA	4
3-20	5	PARRE		24AMGROUTHIN PTFE	75037	SLEEVING, TEFLOW	CFY	EA	2
3-20	6	PARRE		T60173-4	06090	TUBING, EXPANDED		EA	3
3-20	7	PARRE	5935-00-944-9857	004601-040-801	94375	CONNECTOR, PLUG, ELECTRICAL	CFY	EA	1
3-20	7	PARRE	5935-00-963-0124	50-307-3196	98291	CONNECTOR, PLUG, ELECTRICAL	ASY	EA	1
3-20	8	PARRE	6145-00-814-1209	RC196A/U	81349	CABLE, RADIO FREQUENCY, COAXIAL		EA	1
3-20	9	PARRE	5910-00-897-8198	CR06CR103M	81349	CAPACITOR, FIXED, CER-DIELECTRIC		EA	1
3-20	10	PARRE	5905-00-683-2238	RC070F103J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	1
3-20	10	PARRE	5905-00-734-1003	RC070G103JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-20	11	PARRE	5961-00-058-2090	JAN282369A	81349	TRANSISTOR		EA	1
3-20	12	PARRE	5961-00-226-1755	10194DAP	07047	INSULATOR, TRANSISTOR		EA	1
3-20	13	XARRE		NS17122-5	96906	TERMINAL STUD		EA	6
3-20	14	PARRE	5905-00-755-8389	RC070F220J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	1
3-20	14	PARRE	5905-00-773-0769	RC070G220JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-20	15	PARRE	5905-00-726-4413	RC070F123J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	1
3-20	15	PARRE	5905-00-754-7891	RC070G123JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-20	16	PARRE	5950-00-945-3752	VE10618	03550	TRANSFORMER, RADIO FREQUENCY		EA	1
3-20	17	PARRE	5961-00-905-5083	FA4000	13715	SEMICONDUCTOR DEVICE, DIODE	CFY	EA	1
3-20	17	PARRE	5961-00-986-0210	JAN14A307	81349	SEMICONDUCTOR DEVICE, DIODE	ASY	EA	1
3-20	18	PARRE		22AM04201THIN PTFE	75037	SLEEVING, TEFLOW		EA	8
3-20	19	PARRE	5905-00-683-2239	RC070F201J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	1
3-20	19	PARRE	5905-00-764-2772	RC070G201JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-20	20	PARRE	5950-00-945-3754	VE10617	03550	TRANSFORMER, RADIO FREQUENCY		EA	1
3-20	21	PARRE	5905-00-683-2242	RC070F471J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	2
3-20	21	PARRE	5905-00-734-1045	RC070G471JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	2
3-20	22	PARRE	5980-00-945-4313	1541006	05869	CIRCUIT BOARD	CFY	EA	1
3-20	22	PARRE		1596591	05869	CIRCUIT BOARD	ASY	EA	1

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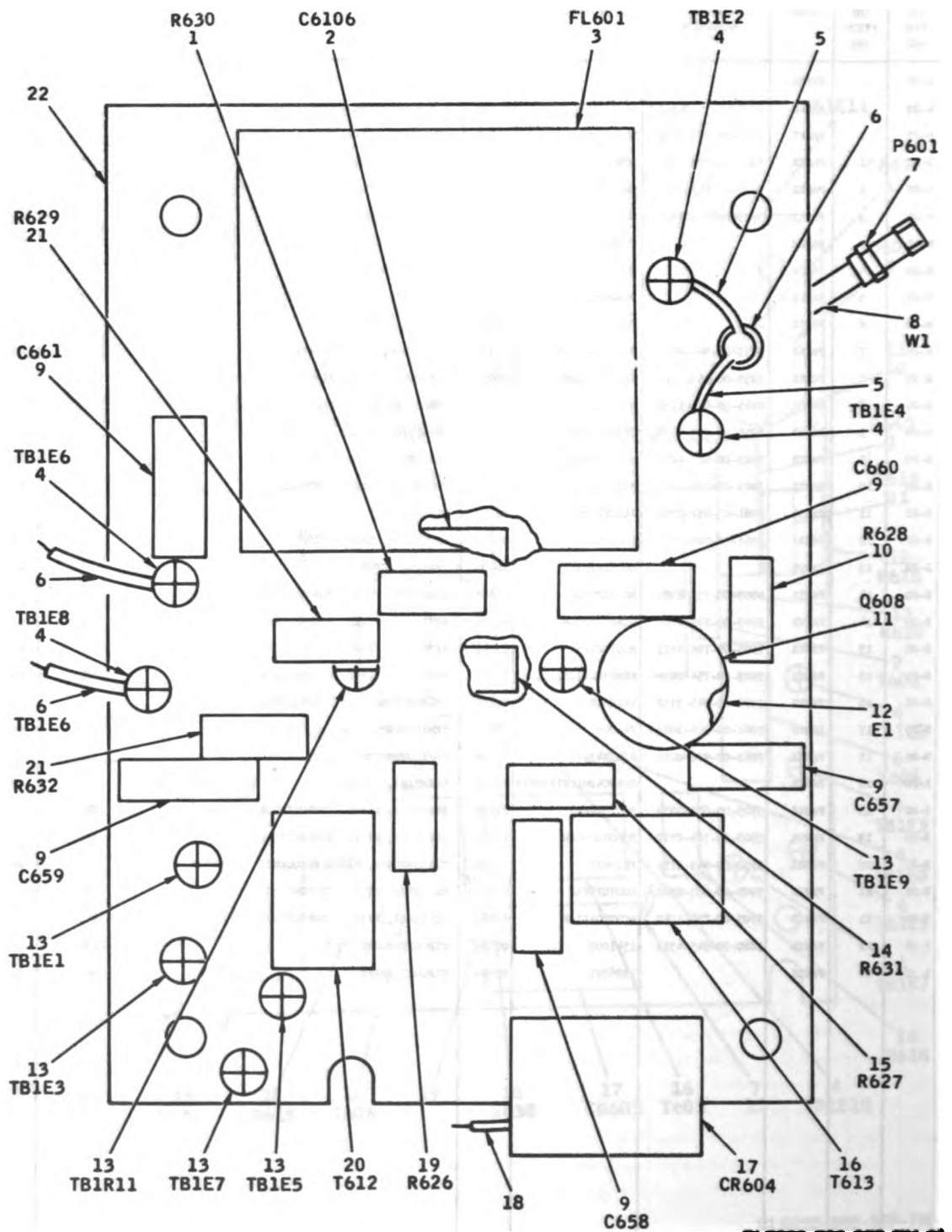
EL6820-800-30P-TM-10

Figure B-19. Circuit board, frequency synthesizer module

B-66 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-30		AMRKH		1559825	05869	1 MEZ MIXER-AMPLIFIER ASSEMBLY	CHY	EA	1
B-30		AMRKH		15596378	05869	1 MEZ MIXER-AMPLIFIER ASSEMBLY	ASY	EA	1
B-30	1	PARRX	5905-00-683-2236	RC07GF391J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
B-30	1	PARRX	5905-00-773-0881	RC07G391JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
B-30	2	PARRX	5910-00-615-5472	ML15-821J	72136	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
B-30	3	PARRX	5915-00-879-4971	VK13421	03550	FILTER, LOW PASS	CHY	EA	1
B-30	3	PARRX		70048	05254	FILTER, LOW PASS	ASY	EA	1
B-30	4	XARRX		201082	88245	TERMINAL STUD		EA	4
B-30	5	PARRX		24AM02012HIN PTFE	75037	SLEEVING, TEFLOW	CHY	EA	2
B-30	6	PARRX		760173-4	06090	TUBING, EXPANDED		EA	3
B-30	7	PARRX	5935-00-944-9857	004601-040-801	94375	CONNECTOR, PLUG, ELECTRICAL	CHY	EA	1
B-30	7	PARRX	5935-00-963-0124	50-307-3196	98291	CONNECTOR, PLUG, ELECTRICAL	ASY	EA	1
B-30	8	PARRX	6145-00-814-1209	RC196A/U	81349	CABLE, RADIO FREQUENCY, COAXIAL		EA	1
B-30	9	PARRX	5910-00-857-9192	C006C0103M	81349	CAPACITOR, FIXED, CER-DIELECTRIC		EA	1
B-30	10	PARRX	5905-00-683-2238	RC07GF123J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
B-30	10	PARRX	5905-00-734-1003	RC07G103JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
B-30	11	PARRX	5961-00-058-2090	JAF2R2369A	81349	TRANSISTOR		EA	1
B-30	12	PARRX	5961-00-226-1755	10194DAP	07047	INSULATOR, TRANSISTOR		EA	1
B-30	13	XARRX		NS17122-5	96906	TERMINAL STUD		EA	6
B-30	14	PARRX	5905-00-755-8369	RC07GF220J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
B-30	14	PARRX	5905-00-773-0769	RC07G220JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
B-30	15	PARRX	5905-00-726-4413	RC07GF123J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
B-30	15	PARRX	5905-00-754-7891	RC07G123JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
B-30	16	PARRX	5930-00-945-3732	VK10618	03550	TRANSFORMER, RADIO FREQUENCY		EA	1
B-30	17	PARRX	5961-00-905-5083	PA4000	13715	SEMICONDUCTOR DEVICE, DIODE	CHY	EA	1
B-30	17	PARRX	5961-00-986-0210	JAF1B4307	81349	SEMICONDUCTOR DEVICE, DIODE	ASY	EA	1
B-30	18	PARRX		22AM042012HIN PTFE	75037	SLEEVING, TEFLOW		EA	8
B-30	19	PARRX	5905-00-683-2239	RC07GF201J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
B-30	19	PARRX	5905-00-764-2772	RC07G201JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
B-30	20	PARRX	5930-00-945-3734	VK10617	03550	TRANSFORMER, RADIO FREQUENCY		EA	1
B-30	21	PARRX	5905-00-683-2242	RC07GF471J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	2
B-30	21	PARRX	5905-00-734-1045	RC07G471JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	2
B-30	22	PARRX	5980-00-945-4313	1541006	05869	CIRCUIT BOARD	CHY	EA	1
B-30	22	PARRX		1556591	05869	CIRCUIT BOARD	ASY	EA	1



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Figure B-20. Circuit board, mbcwr amplifier 1 MHz.

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SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) PFCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
GROUP: 010105 MODULE, POWER AMPLIFIER									
B-21		PAVED	5820-00-089-7880	1550164-100	05869	PWR AMPL-RCVR-KDTR	CFY	EA	1
B-21		PAVED	5820-00-140-7398	1550164-101	05869	PWR AMPL-RCVR-KDTR	ASY	EA	1
B-21	1	PAREX	5940-00-949-3097	411JJ7	75382	BARRIER, TERMINAL		EA	1
B-21	2	PAREX	5310-00-723-9676	8AB620C4L	80205	WASHER, FLAT		EA	8
B-21	3	PAREX	5305-00-487-6354	AB515C4-5	81349	SCREW, MACHINE		EA	4
B-21	4	PAREX	5940-00-168-9691	330837	00779	TERMINAL, LUQ		EA	8
B-21	5	PAREX		760173-4	06090	TUBING, EXPANDED		EA	17
B-21	6	ARMED		1558384	05869	DRIVER, PWR AMPL	CFY	EA	1
B-21	6	ARMED		1596413	05869	DRIVER, PWR AMPL	ASY	EA	1
B-21	7	XINEX		1559943	05869	SHIELD, DRIVER, AMPL		EA	1
B-21	8	PAREX	5305-00-143-1756	LP57DA0816-6PL	03038	SCREW, SELF-LKG		EA	4
B-21	9	PAREX	5310-00-550-2329	NR25082-7	96906	NUT, PLAIN HEXAGON		EA	1
B-21	10	PAREX	5305-00-777-6010	8AB1081C0603	80205	SETScrew		EA	4
B-21	11	PAREX	3010-00-137-5862	1596483-002	05869	COUPLER, SHAFT		EA	2
B-21	12	PAREX	5310-00-734-9661	NR35337-78	96906	WASHER, LOCK	ASY	EA	6
B-21	13	PAREX	5305-00-054-9649	NR51957-15	96906	SCREW, MACHINE	ASY	EA	6
B-21	14	PAREX	5940-00-577-3807	NR25036-45	96906	TERMINAL LUQ	CFY	EA	1
B-21	14	PAREX	5940-00-229-7550	NR20659-38	96906	TERMINAL LUQ	ASY	EA	1
B-21	15	PAREX	5940-00-405-9180	411JJ71	75382	BARRIER, TERMINAL		EA	1
B-21	16	PAREX	5305-00-943-2771	NR35233-25	96906	SCREW, MACHINE		EA	7
B-21	17	PAREX	5310-00-616-3555	NR35333-71	96906	WASHER, LOCK		EA	3
B-21	18	XINEX	6145-00-814-1209	NR196A/U	81349	CABLE, RADIO		EA	1
B-21	19	ARMED		1554389	05869	CHASSIS, PWR AMPL		EA	1
B-21	20	PAREX	5910-00-478-4391	711451-002	94033	CAPACITOR, VARIABLE		EA	1
B-21	21	PAREX	9950-00-878-5802	13452	03550	COIL, RADIO FREQUENCY	CFY	EA	1
B-21	21	PAREX	9950-00-627-0319	15946	03550	COIL, RADIO FREQUENCY	ASY	EA	1
B-21	22	PAREX	5310-00-781-9493	NR21075L06	96906	NUT, SELF-LKG, PLATE		EA	1
B-21	23	PAREX	5320-00-117-6929	NR20426AD2-4	96906	RIVET, SOLID		EA	2
B-21	24	XINEX		1558381	05869	CHASSIS, DRIVER, PWR AMPL	CFY	EA	1
B-21	24	XINEX		1596359	05869	CHASSIS, DRIVER, PWR-AMPL	ASY	EA	1
B-21	25	PAREX	5310-00-208-3786	8AB671C4	80205	NUT, PLAIN, HEXAGON		EA	6
B-21	26	PAREX	5310-00-550-3715	NR35333-70	96906	WASHER, LOCK		EA	4
B-21	27	PAREX	5325-00-174-5317	NR35489-4	96906	GROMMET, RUBBER	CFY	EA	1
B-21	27	PAREX	5325-00-619-3314	8AB557-4B	80205	GROMMET, RUBBER	ASY	EA	1
B-21	28	ARMED		1558387	05869	AMPL, PWR OUTPUT	CFY	EA	1
B-21	28	ARMED		1596417	05869	AMPL, PWR OUTPUT	ASY	EA	1
B-21	29	PAREX		004601-000-801	94375	CONNECTOR, PLUG, ELECTRICAL	CFY	EA	1
B-21	29	PAREX	9955-00-963-0124	50-307-3196	98291	CONNECTOR, PLUG, ELECTRICAL	ASY	EA	1
B-21	30	PAREX	5305-00-068-6532	NR35233-15	96906	SCREW, MACHINE	CFY	EA	4

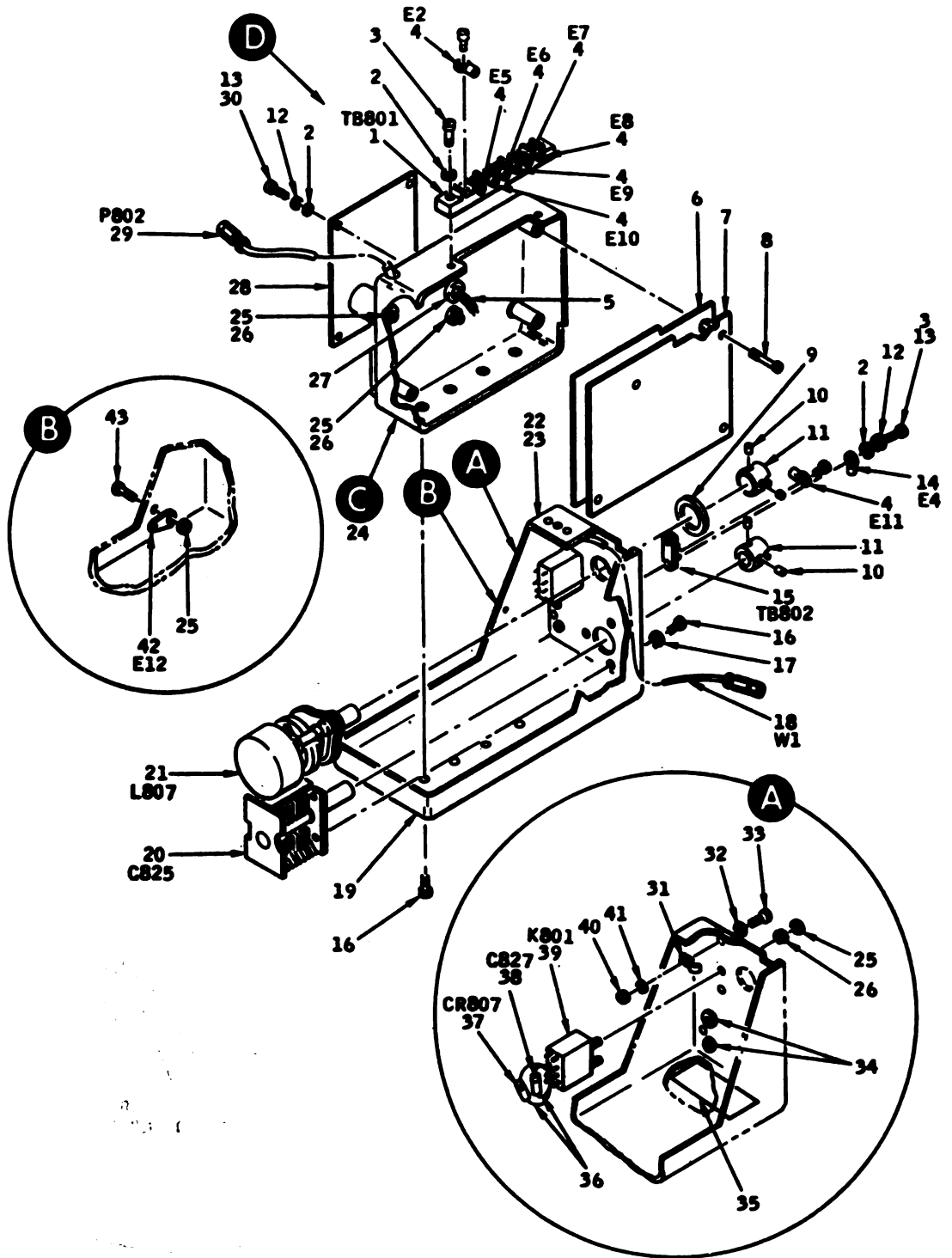
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SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
R	8-21	31	PAHZZ 5340-00-170-0630	1541017	05869	CLAMP, CABLE		EA	1
	8-21	32	PAHZZ 5310-00-543-4652	MS35333-60	96906	WASHER, LOCK		EA	1
	8-21	33	PAHZZ 5305-00-531-9521	MS35233-3	96906	SCREW, MACHINE		EA	1
R	8-21	34	PAHZZ 5310-00-978-0133	506440-4	46304	NUT, STANDOFF		EA	4
	8-21	35	XBMZZ	1559161-005	05869	NAMEPLATE	CNY	EA	1
	8-21	35	XBMZZ	1596480-005	05869	NAMEPLATE	ASY	EA	1
	8-21	36	PAHZZ 5070-00-846-9116	995057-000	00795	INSULATION, SLEEVING	CNY	EA	4
	8-21	36	PAHZZ	24AWG4201THIN- PTPEWJTE	75037	INSULATION, SLEEVING	ASY	EA	4
	8-21	37	PAHZZ 5961-00-646-4611	JAN1M957	01349	SEMICONDUCTOR DEVICE, DIODE		EA	1
	8-21	38	PAHZZ 5910-00-857-9192	CK86CM103M	01349	CAPACITOR, FXD, CERAMIC		EA	1
	8-21	39	PAHZZ 5945-00-009-9130	BR12-140B12V	00026	RELAY, ARMATURE		EA	1
	8-21	40	PAHZZ 5310-00-812-4294	NAS671C2	00205	NUT, PLAIN, HEXAGON		EA	1
	8-21	41	PAHZZ 5310-00-843-4700	NAS620C2	00205	WASHER, FLAT		EA	1
	8-21	42	PAHZZ 5940-00-602-2477	MS77060-1	96906	TERMINAL, LUG		EA	3
	8-21	43	PAHZZ 5305-00-993-9109	MS24693C2	96906	SCREW, MACHINE		EA	1
	8-21	44	PAHZZ 5310-00-078-7111	F632-1	46304	NUT, SELF-CLINCHING		EA	7
R	8-21	45	PAHZZ 5310-00-071-0075	505440-12	46304	NUT, STAND-OFF		EA	5
R	8-21	46	PAHZZ 5310-00-869-4253	505440-24	46304	NUT, STAND-OFF		EA	3
R	8-21	47	PAHZZ 5940-00-126-2551	4025-3-01-19	03624	TERMINAL, STANDOFF		EA	4
R	8-21	48	PAHZZ 5940-00-921-3300	4102-3-01-19	03624	TERMINAL, STANDOFF		EA	3
	8-21	49	PAHZZ	1209204	00245	TERMINAL, STUD		EA	1
	8-21	50	PAHZZ 5961-00-999-7341	PT3603	01201	TRANSISTOR	CNY	EA	2
M	8-21	50	PAHZZ	PT3603A	01201	TRANSISTOR SET	ASY	EA	1
	8-21	51	PAHZZ 5910-00-942-0240	CD10C620J03	93790	CAPACITOR, FXD, MICA		EA	1
	8-21	52	PAHZZ 5905-00-994-6676	EB10G5	01121	RESISTOR, FXD, COMPOSITION		EA	2
	8-21	53	PAHZZ 5950-00-078-5005	13443	03550	TRANSFORMER, RADIO FREQUENCY		EA	1
R	8-21	54	PAHZZ 5910-00-109-0653	5C023104X050003	56209	CAPACITOR, FXD, CERAMIC		EA	1
	8-21	55	PAHZZ 5905-00-190-8003	RC206F100J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
	8-21	55	PAHZZ 5905-00-078-7059	RCR20G100JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
	8-21	56	PAHZZ 5905-00-171-2001	RC206F362J	01349	RESISTOR, FXD, COMPOSITION	CNY	EA	1
	8-21	56	PAHZZ 5905-00-813-5610	RCR20G362JM	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
	8-21	57	PAHZZ	X663F-100MF10 PCT-100V	04411	CAPACITOR, FXD, FILM		EA	1
	8-21	58	PAHZZ 5950-00-913-1967	MS90537-7	96906	COIL, RADIO FREQUENCY		EA	1
	8-21	59	PAHZZ 5950-00-079-6141	13444	03550	TRANSFORMER, RADIO FREQUENCY		EA	1

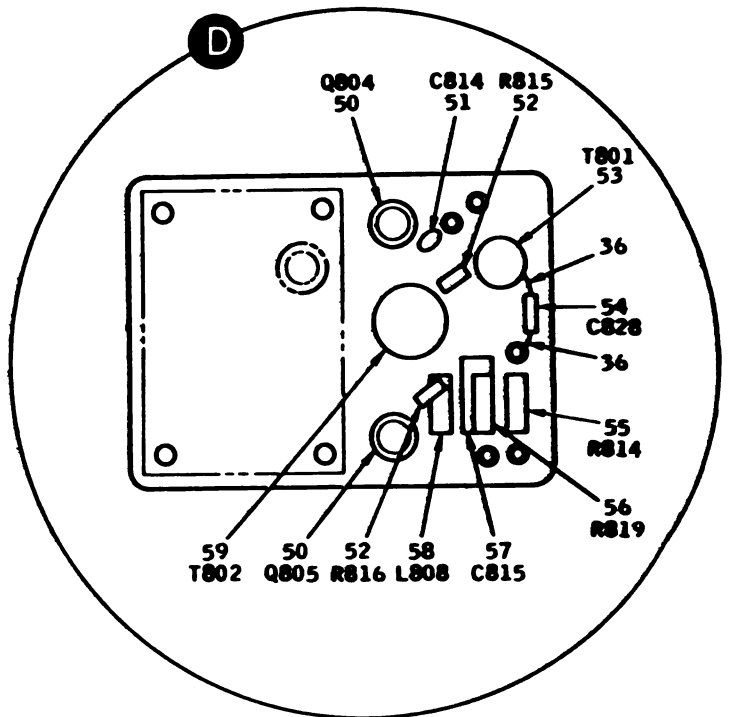
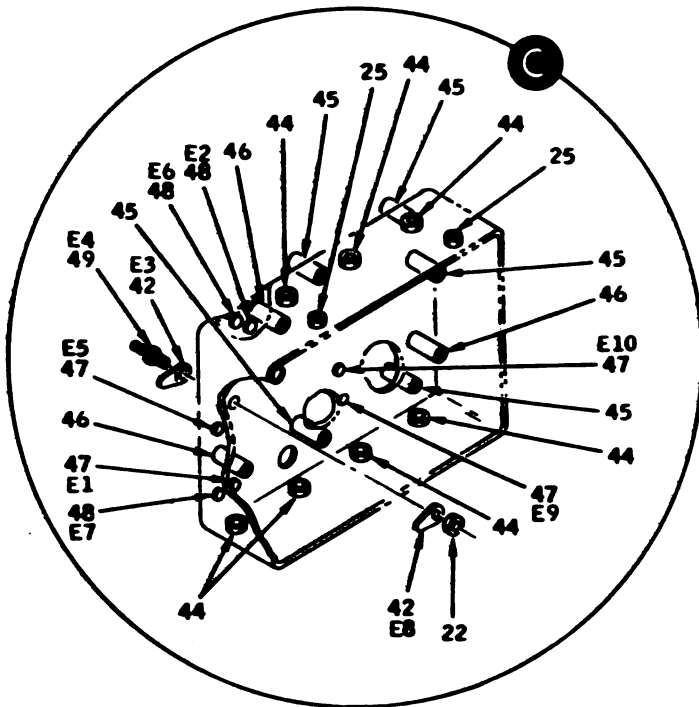


EL5820-880-35P-TM-21 (1)

Figure B-21. Module, power amplifier

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EL6820-800-35P-TM-21 (2)

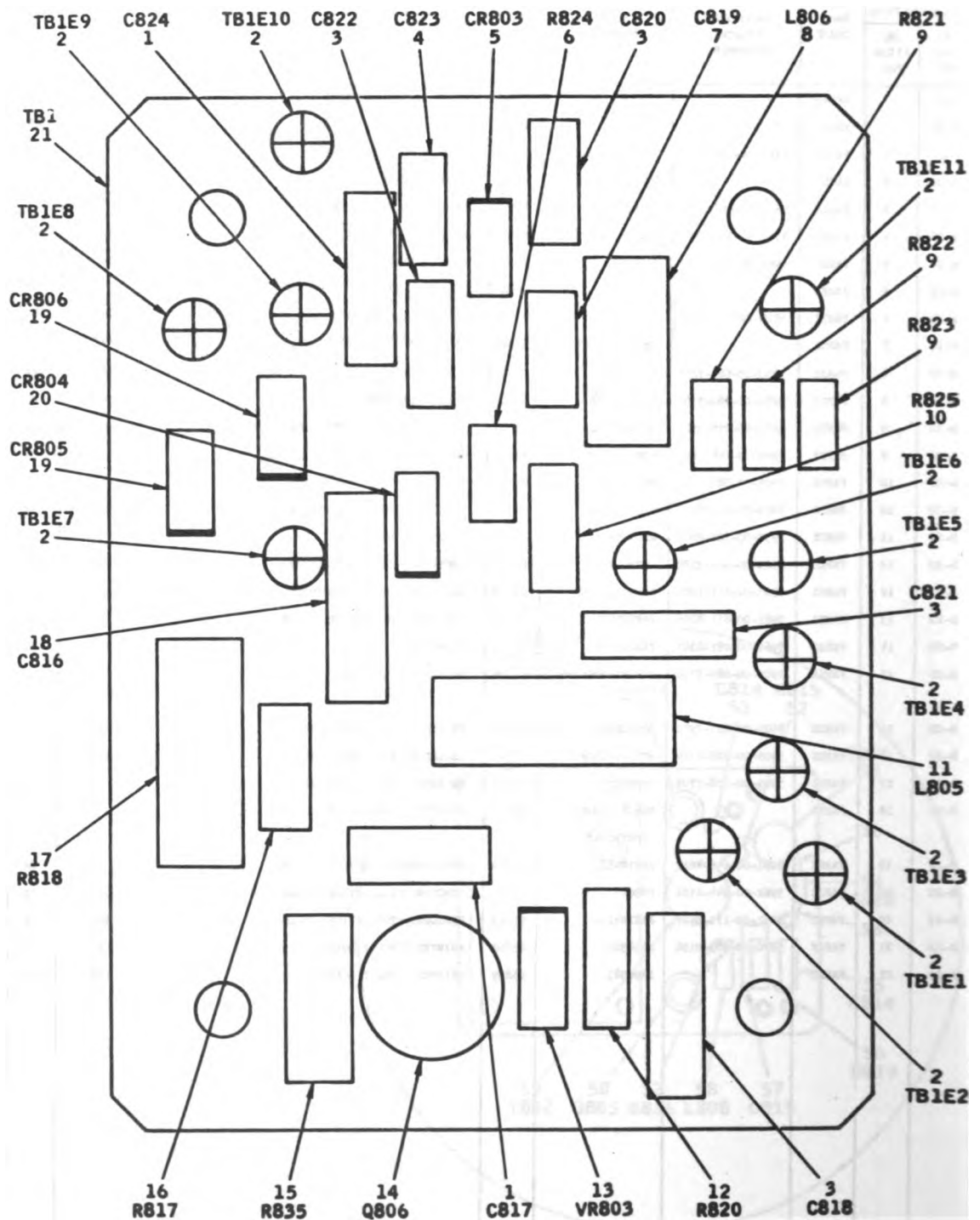
Figure B-21. Module, power amplifier

(Sheet 2 of 2).

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SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-22		ARRHD		1558387	05869	FO... IFLIER OUTPUT	CHY	EA	1
B-22		ARRHD		1596417	05869	FO... APLIFIER OUTPUT	ASY	EA	1
B-22	1	PARZZ	5910-00-109-065J	5C023104X0500B3	56289	CAPACITOR, FXD, CERAMIC		EA	2
B-22	2	KARZZ		2010B2	88245	TERMINAL STUD		EA	11
B-22	3	PARZZ	5910-00-857-9192	CK06CV103M	81349	CAPACITOR, FXD, CERAMIC		EA	4
B-22	4	PARZZ	5910-00-999-7767	CD10C150J03	93790	CAPACITOR, FXD, MICA		EA	1
B-22	5	PARZZ	5961-00-942-1271	JAN1R251	81349	SEMICONDUCTOR DEVICE, DIODE		EA	1
B-22	6	PARZZ		1343-2	06416	RESISTOR, FXD		EA	1
B-22	7	PARZZ	5910-00-945-0006	CD10C33J03	93790	CAPACITOR, FXD, MICA	CHY	EA	1
B-22	7	PARZZ		0MD4FA33J03	81349	CAPACITOR, FXD, MICA	ASY	EA	1
B-22	8	PARZZ	5950-00-688-7287	RPC01000	08742	COIL, RADIOFREQUENCY	CHY	EA	1
B-22	8	PARZZ	5950-00-983-5369	MB90537-48	96906	COIL, RADIOFREQUENCY	ASY	EA	1
B-22	9	PARZZ	5950-00-279-3521	RC200P150J	81349	RESISTOR, FXD, COMPOSITION	CHY	EA	3
B-22	9	PARZZ	5905-00-764-2494	RC200150J7M	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	3
B-22	10	PARZZ	5905-00-683-7726	RC07GP363J	81349	RESISTOR, FXD, COMPOSITION	CHY	EA	1
B-22	10	PARZZ	5905-00-811-8479	RC07G363J7M	81349	RESISTOR, FXD, COMPOSITION	CHY	EA	1
B-22	11	PARZZ	5950-00-727-2680	MB75052-5	96906	COIL, RADIOFREQUENCY		EA	1
B-22	12	PARZZ	5905-00-686-3128	RC07GF113J	81349	RESISTOR, FXD, COMPOSITION	CHY	EA	1
B-22	12	PARZZ	5905-00-814-6280	RC07G113J7M	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-22	13	PARZZ	5961-00-851-8296	JAN1R967B	81349	SEMICONDUCTOR DEVICE, DIODE		EA	1
B-22	14	PARZZ	5961-00-081-8365	JAN2W1131	81349	TRANSISTOR		EA	1
B-22	15	PARZZ	5905-00-089-8750	17685000MPO8M5 PCT	17826	RESISTOR, VARIABLE		EA	1
B-22	16	PARZZ	5905-00-817-7971	RC07GF100J	81349	RESISTOR, FXD, COMPOSITION	CHY	EA	1
B-22	16	PARZZ	5905-00-728-6124	RC07G100J7M	81349	RESISTOR, FXD, COMPOSITION	ASY	EA	1
B-22	17	PARZZ	5905-00-978-7703	RV69V1R5	81349	RESISTOR, FXD, WIREBOUNDED		EA	1
B-22	18	PARZZ		X663P-100M710 PCT100V	84411	CAPACITOR, FXD, FILM		EA	1
B-22	19	PARZZ	5961-00-646-4611	JAN1R457	81349	SEMICONDUCTOR DEVICE, DIODE		EA	2
B-22	20	PARZZ	5961-00-944-4761	FD9047	01281	SEMICONDUCTOR DEVICE, DIODE	CHY	EA	1
B-22	20	PARZZ	5961-00-175-8467	JAN1R4150	81349	SEMICONDUCTOR DEVICE, DIODE	ASY	EA	1
B-22	21	PARZZ	5820-00-089-9194	1554307	05869	PRINTED CIRCUIT BOARD	CHY	EA	1
B-22	21	PARZZ		1596583	05869	PRINTED CIRCUIT BOARD	ASY	EA	1



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Figure B-22. Power amplifier module, left-side component board.

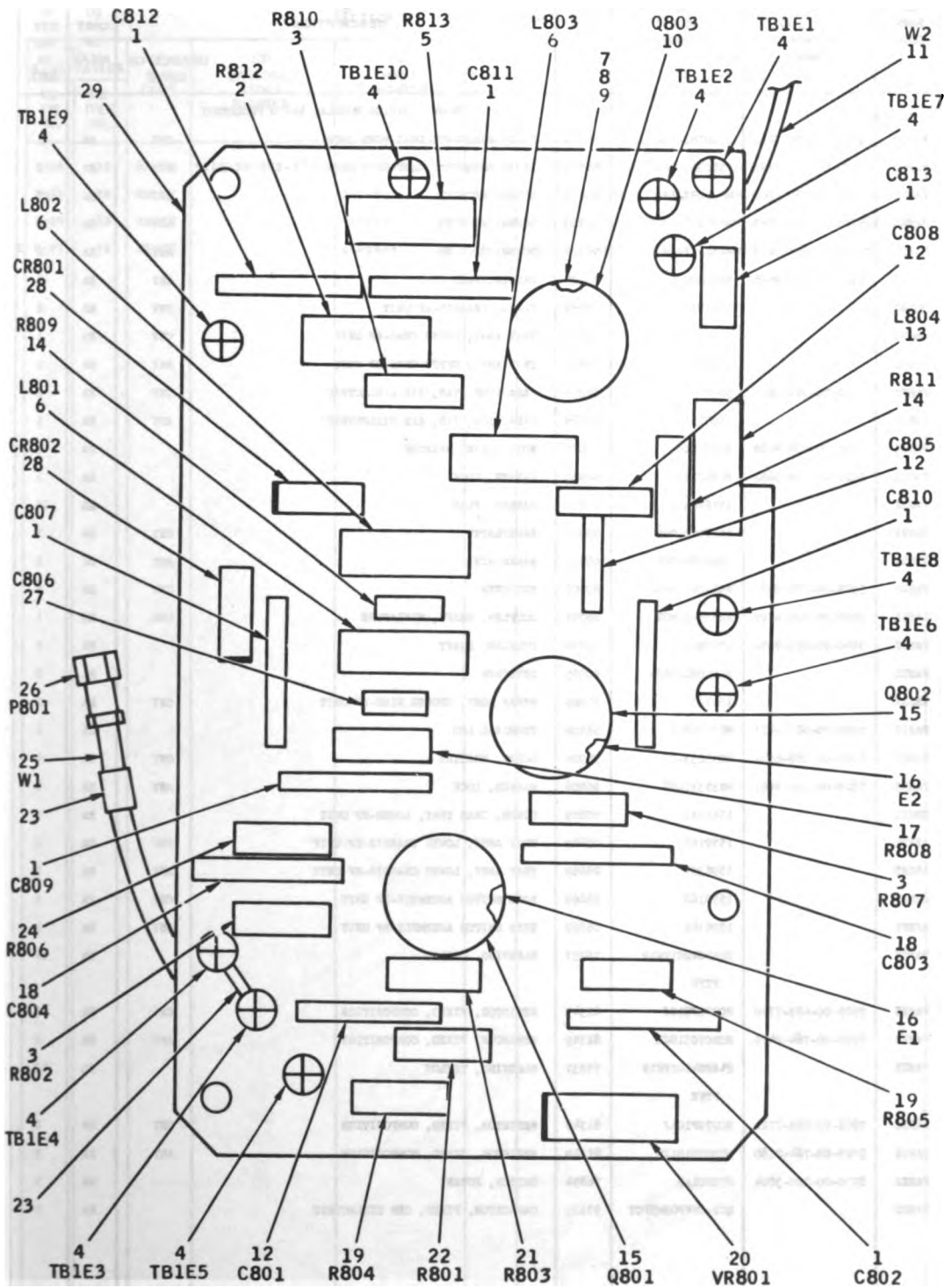
B-78 Change 2

SECTION B REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
B-23		ANWHD		1558384	05869	DRIVER, POWER AMPLIFIER	CNY	EA 1
B-23		ANWHD		1596413	05869	DRIVER, POWER AMPLIFIER	ASY	EA 1
B-23	1	PANZZ	5910-00-109-0653	5C023104X50003	36289	CAPACITOR, FIXED, CER DIELECTRIC		EA 7
B-23	2	PANZZ	5905-00-994-6676	EB1865	01121	RESISTOR, FIXED, COMPOSITION		EA 1
B-23	3	PANZZ	5905-00-725-6995	RC07GP271J	01349	RESISTOR, FIXED, COMPOSITION	CNY	EA 3
B-23	3	PANZZ	5905-00-758-5230	RCR07G271JM	01349	RESISTOR, FIXED, COMPOSITION	ASY	EA 3
B-23	4	XANZZ		201002	00245	TERMINAL, STUD		EA 10
B-23	5	PANZZ	5905-00-781-7123	RC20GP2R7J	01349	RESISTOR, FIXED, COMPOSITION	CNY	EA 1
B-23	5	PANZZ	5905-00-102-5627	RCR20G2R7JM	01349	RESISTOR, FIXED, COMPOSITION	ASY	EA 1
B-23	6	PANZZ	5950-00-921-3418	MS90537-37	96906	COIL, RADIO FREQUENCY		EA 3
B-23	7	PANZZ	5909-00-878-5104	1559878	05869	HEATSINK, DRIVER, PWR AMPLIFIER		EA 1
B-23	8	PANZZ	5310-00-011-6060	MS35337-4	96906	WASHER, LOCK		EA 1
B-23	9	PANZZ	5310-00-725-4712	NAS671-8	00205	MUT, PLAIN, HEXAGON		EA 1
B-23	10	PANZZ	5961-00-058-5987	PT3503	01201	TRANSISTOR		EA 1
B-23	11	PANZZ		251938NMFJNB	90404	CABLE, SPECIAL PURPOSE, ELECTRICAL		EA 1
B-23	12	PANZZ	5910-00-857-3192	CK06CW103M	01349	CAPACITOR, FIXED, CER DIELECTRIC		EA 3
B-23	13	PANZZ	5950-00-827-8693	RPCS10	00742	COIL, RADIO FREQUENCY	CNY	EA 1
B-23	13	PANZZ	5950-00-926-3128	MS90537-25	96906	COIL, RADIO FREQUENCY	ASY	EA 1
B-23	14	PANZZ	5905-00-681-4462	KC07GP102J	01349	RESISTOR, FIXED, COMPOSITION	CNY	EA 2
B-23	14	PANZZ	5905-00-734-0404	RCR07G102JM	01349	RESISTOR, FIXED, COMPOSITION	ASY	EA 2
B-23	15	PANZZ	5961-00-050-7499	JAN242219	01349	TRANSISTOR		EA 2
B-23	16	PANZZ	5961-00-946-0947	10079DAP	07047	INSULATOR, TRANSISTOR		EA 2
B-23	17	PANZZ	5905-00-886-8636	RL07GP330J	01349	RESISTOR, FIXED, COMPOSITION	CNY	EA 1
B-23	17	PANZZ	5905-00-763-4056	KCR07G333JM	01349	RESISTOR, FIXED, COMPOSITION	ASY	EA 1
B-23	18	PANZZ	5910-00-893-6745	CK05CW102K	01349	CAPACITOR, FIXED, CER DIELECTRIC		EA 2
B-23	19	PANZZ	5905-00-622-4107	RC07GP181J	01349	RESISTOR, FIXED, COMPOSITION	CNY	EA 2
B-23	19	PANZZ	5905-00-890-4732	RCR07G181JM	01349	RESISTOR, FIXED, COMPOSITION	ASY	EA 2
B-23	20	PANZZ	5961-00-752-6178	JAN143030B	01349	SEMICONDUCTOR DEVICE, DIODE		EA 1
B-23	21	PANZZ	5905-00-608-3738	RC07GP182J	01349	RESISTOR, FIXED, COMPOSITION	CNY	EA 1
B-23	21	PANZZ	5905-00-728-6136	RCR07G182JM	01349	RESISTOR, FIXED, COMPOSITION	ASY	EA 1
B-23	22	PANZZ	5905-00-683-7721	RC07GP101J	01349	RESISTOR, FIXED, COMPOSITION	CNY	EA 1
B-23	22	PANZZ	5905-00-764-2190	RCR07G101JM	01349	RESISTOR, FIXED, COMPOSITION	ASY	EA 1
B-23	23	PANZZ		760173-4	06090	TUNING, EXPANDED		EA 5
B-23	24	PANZZ	5905-00-803-0000	KC07GP270J	01349	RESISTOR, FIXED, COMPOSITION	CNY	EA 1
B-23	24	PANZZ	5905-00-734-1111	RCR07G273JM	01349	RESISTOR, FIXED, COMPOSITION	ASY	EA 1
B-23	25	XANZZ	6145-00-014-1209	RG196A-U	01349	CABLE, RADIO FREQUENCY, COAXIAL		EA 1
B-23	26	PANZZ	5935-00-944-3857	GG4601-040-001	94375	CONNECTOR, PLUG, ELECTRICAL	CNY	EA 1
B-23	26	PANZZ	5935-00-963-01	0-307-3196	98291	CONNECTOR, PLUG, ELECTRICAL	ASY	EA 1
B-23	27	PANZZ	5910-00-946-6744	CD10C251J05	93790	CAPACITOR, FIXED, MICA DIELECTRIC		EA 1

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-23	28	PAHZZ	5961-00-892-0734	JAN1W483B	81349	SEMICONDUCTOR DEVICE, DIODE		EA	2
B-23	29	PAHZZ	5820-00-878-7324	1558385	05869	PRINTED CIRCUIT BOARD	CNY	EA	1
B-23	29	PAHZZ	5820-00-139-4890	1596578	05869	PRINTED CIRCUIT BOARD	ASY	EA	1



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Figure B-23. Power amplifier module, right-side component board.

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SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
GROUP: 010106 MODULE, RADIO FREQUENCY									
B-24		PAFID	5820-00-089-7881	1550163-100	05869	RADIO FREQUENCY UNIT-RCVR XGTR	CFY	EA	1
B-24		PAFID	5820-00-004-8791	1550163-101	05869	RADIO FREQUENCY UNIT-RCVR XGTR	ASY	EA	1
B-24	1	PAHEZ	5305-00-550-5002	MB35233-13	96906	SCREW, MACHINE	CFY	EA	17
B-24	1	PAHEZ	5305-00-054-5647	MB51957-13	96906	SCREW, MACHINE	ASY	EA	16
B-24	2	PAHEZ	5305-00-054-5653	MB51957-12	96906	SCREW, MACHINE	ASY	EA	1
B-24	3	PAHEZ	5310-00-723-9676	MB62004L	80205	WASHER, FLAT	CFY	EA	6
B-24	4	XHEZZ		1541031	05869	PLATE, CHASSIS-RF UNIT	CFY	EA	2
B-24	5	AHEHD		1559158	05869	TRAY ASSY, UPPER CHAS-RF UNIT	CFY	EA	1
B-24	5	AHEHD		1596384	05869	TRAY ASSY, UPPER CHAS-RF UNIT	ASY	EA	1
B-24	6	PAHEZ	5910-00-944-9844	5090	91293	CAPACITOR, VAR, AIR DIELECTRIC	CFY	EA	1
B-24	6	PAHEZ		1602157	05869	CAPACITOR, VAR, AIR DIELECTRIC	ASY	EA	1
B-24	7	PAHEZ	5310-00-208-3786	MB67104	80205	WUT, PLAIN, HEXAGON		EA	1
B-24	8	PAHEZ	5310-00-734-5661	MB35337-78	96906	WASHER, LOCK		EA	1
B-24	9	PAHEZ		1576163	05869	WASHER, FLAT		EA	10
B-24	10	XHEZZ		1559161-006	05869	NAMESPLATE	CFY	EA	1
B-24	10	XHEZZ		1596480-004	05869	NAMESPLATE	ASY	EA	1
B-24	11	PAHEZ	5305-00-777-5977	MB1081004D2	80205	SETSCREW	CFY	EA	2
B-24	12	PAHEZ	3010-00-999-4829	MB35-2-MDD	88797	COUPLER, SHAFT, MINIATURE	CFY	EA	1
B-24	13	PAHEZ	3040-00-089-9050	1540919	05869	COUPLER, SHAFT		EA	1
B-24	14	PAHEZ		MB1081006D4	80205	SETSCREW		EA	2
B-24	15	XHEZZ		1541032	05869	STRAP ASSY, GROUND WIRE-RF UNIT	CFY	EA	1
B-24	16	PAHEZ	5940-00-682-2477	MB77068-1	96906	TERMINAL LUG		EA	1
B-24	17	PAHEZ	5305-00-068-6532	MB35233-15	96906	SCREW, MACHINE	CFY	EA	4
B-24	18	PAHEZ	5310-00-734-5661	MB35337-78	96906	WASHER, LOCK	ASY	EA	4
B-24	19	XHEZZ		1541033	05869	COVER, CHAS TRAY, LOWER-RF UNIT		EA	1
B-24	20	AHEHD		1559160	05869	TRAY ASSY, LOWER CHASSIS-RF UNIT	CFY	EA	1
B-24	20	AHEHD		1596357	05869	TRAY ASSY, LOWER CHASSIS-RF UNIT	ASY	EA	1
B-24	21	AHEHD		1559162	05869	BOARD SWITCH ASSEMBLY-RF UNIT	CFY	EA	1
B-24	21	AHEHD		1596382	05869	BOARD SWITCH ASSEMBLY-RF UNIT	ASY	EA	1
B-24	22	PAHEZ		22AMP4201TELH	75037	SLEEVING, TEFLOW		EA	14
				P15E					
B-24	23	PAHEZ	5905-00-683-7720	RC070510J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	2
B-24	23	PAHEZ	5905-00-764-2479	RC070510JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	2
B-24	24	PAHEZ		2AMP4201TELH	75037	SLEEVING, TEFLOW		EA	12
				P15E					
B-24	25	PAHEZ	5905-00-683-7721	RC070510LJ	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	2
B-24	25	PAHEZ	5905-00-764-2180	RC070510JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	2
B-24	26	PAHEZ	5930-00-720-3004	270801A6	76854	SWITCH, ROTARY		EA	1
B-24	27	PAHEZ		QC1-0P70805PCT	95121	CAPACITOR, FIXED, CER DIELECTRIC		EA	1

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SECTION N REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-24	28	PAKZZ	5910-00-882-3775	GA1-SPPSPCT	78488	CAPACITOR, FIXED, CER DIELECTRIC		EA	1
B-24	29	XBMZZ		1600885	85869	PLATE, CHASSIS FRONT-RF UNIT	ASY	EA	1
B-24	30	XBMZZ		1579217	85869	BRACKET-RADIO FREQUENCY UNIT	ASY	EA	1
C B-24	31	XBMZZ		1600886	85869	PLATE, CHASSIS FRONT-RF UNIT	ASY	EA	1

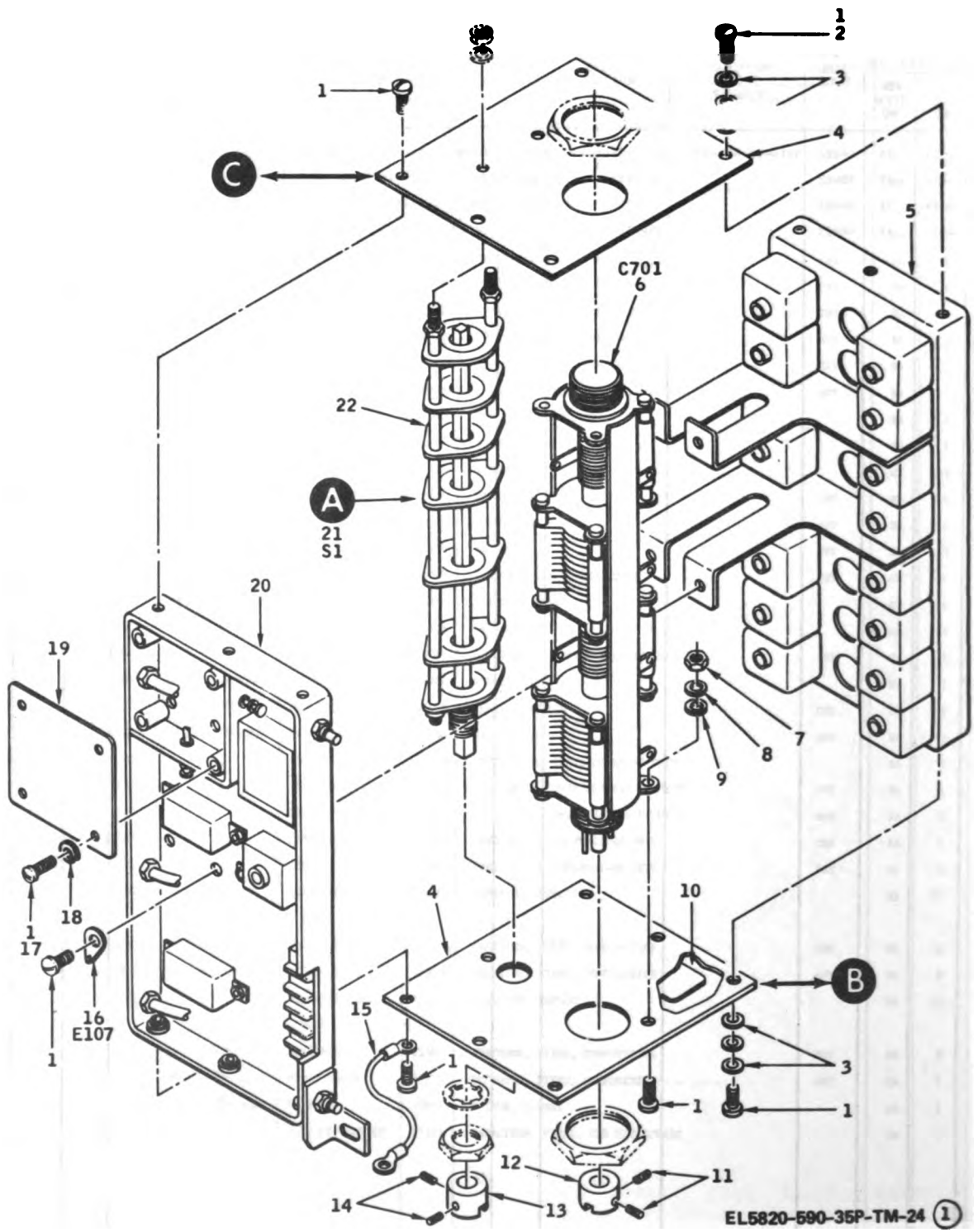


Figure B-24. Module, radio frequency

(Sheet 1 of 2).

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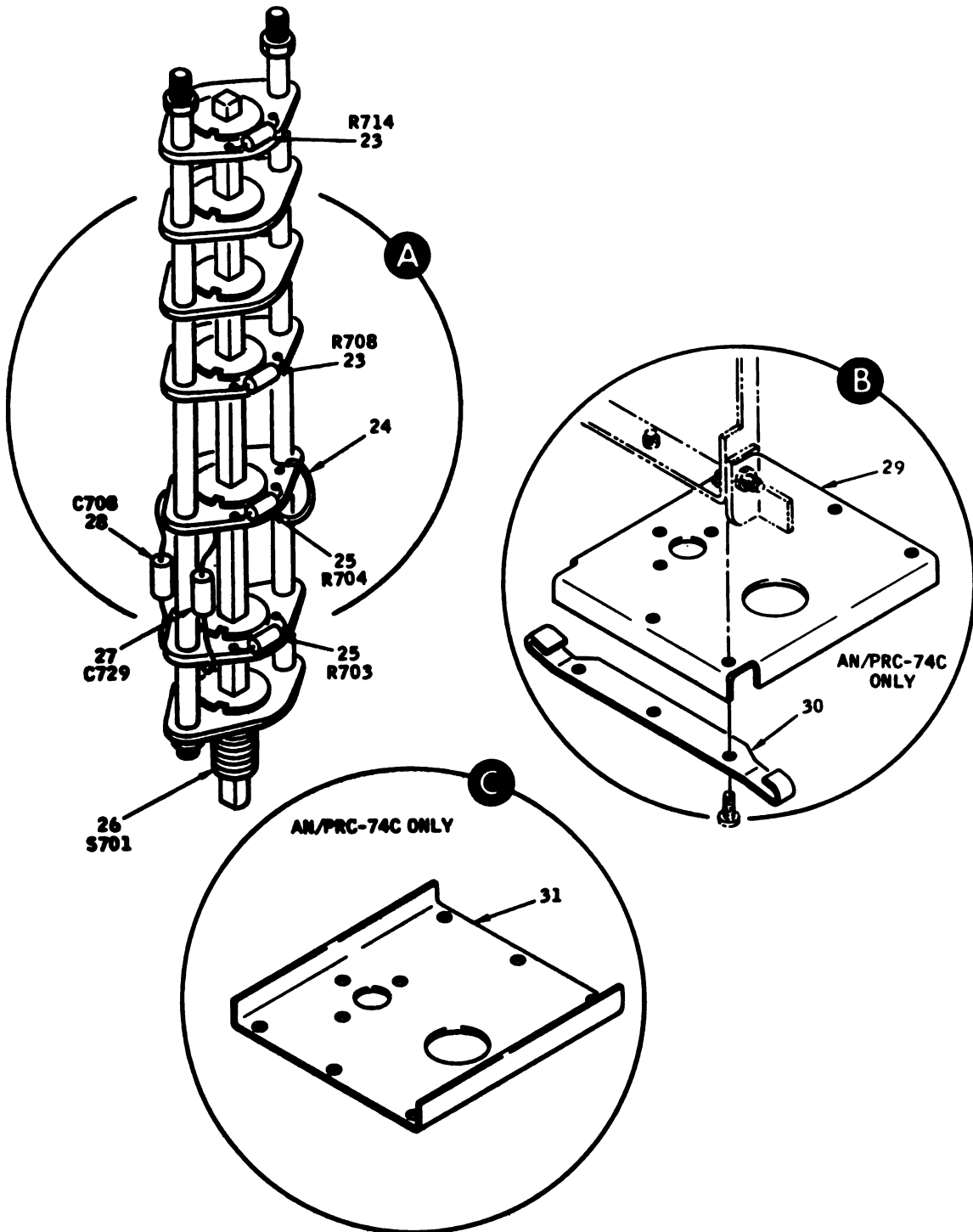


Figure B-24. Module, radio frequency

(Sheet 2 of 2).

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SECTION II. REPAIR PARTS LIST (CONTINUED)

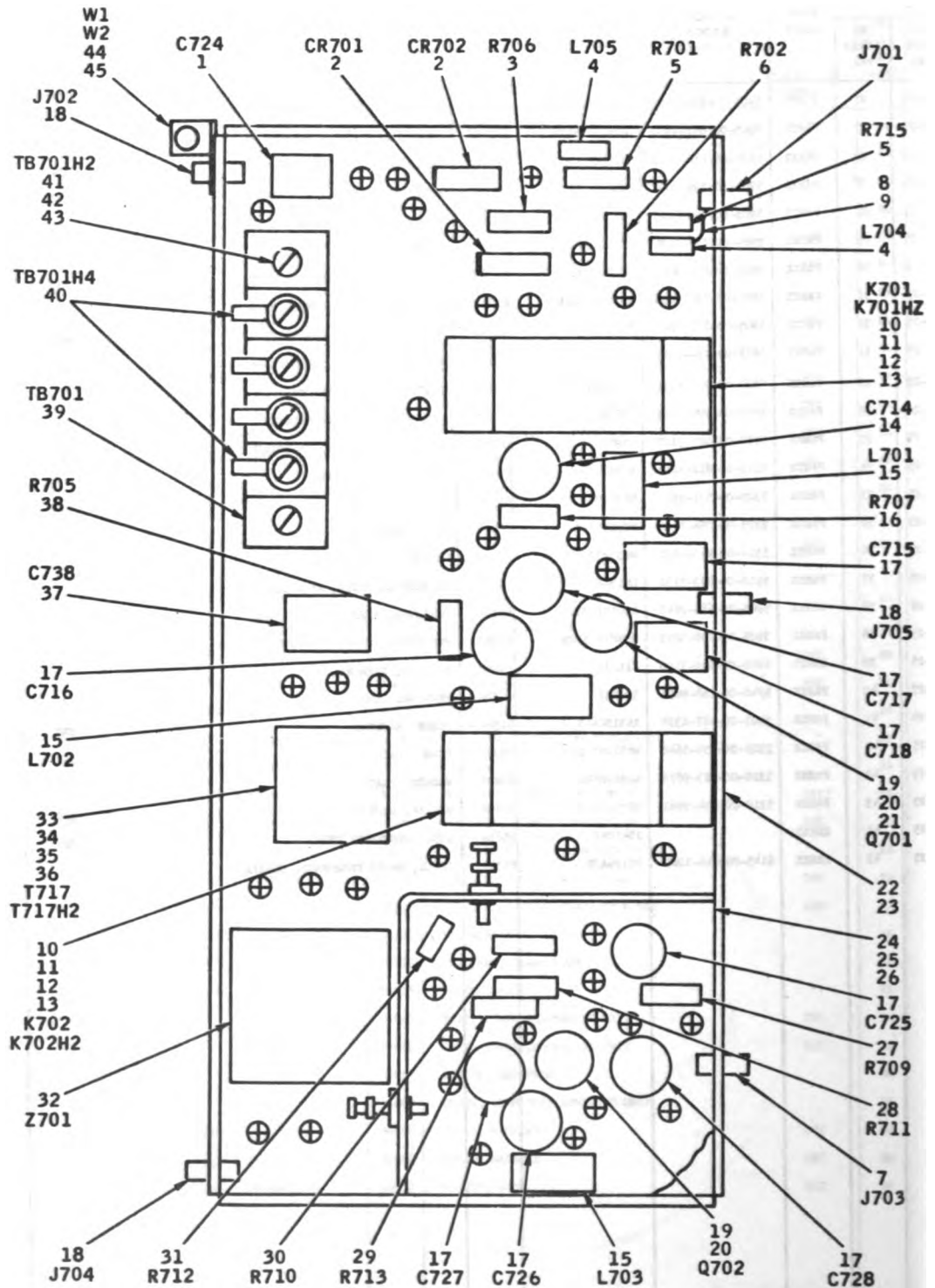
(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) PSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNLT OF MEAS	(8) QTY INC IN UNLT
(A) FIG NO.	(B) ITEM NO.								
B-25		AHHD		1559160	05869	TRAY ASSY, LOWER CHASSIS-RF UNIT	CFY	EA	1
B-25		AHHD		1596357	05869	TRAY ASSY, LOWER CHASSIS-RF UNIT	AST	EA	1
B-25	1	PAEZZ	5910-00-431-5335	70023103X0500D	56289	CAPACITOR, FIXED, CER DIELECTRIC		EA	1
B-25	2	PAEZZ	5961-00-646-4611	JAN18457	81349	SEMICONDUCTOR DEVICE, DIODE		EA	2
B-25	3	PAEZZ	5905-00-682-4108	RC07GP241J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	1
B-25	3	PAEZZ	5905-00-764-2472	RCN070241JN	81349	RESISTOR, FIXED, COMPOSITION	AST	EA	1
B-25	4	PAEZZ	5950-00-926-3131	MB90537-17	96906	COIL, RADIO FREQUENCY		EA	2
B-25	5	PAEZZ	5905-00-683-7721	RC07GP101J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	2
B-25	5	PAEZZ	5905-00-764-2180	RCN070101JN	81349	RESISTOR, FIXED, COMPOSITION	AST	EA	2
B-25	6	PAEZZ	5905-00-728-6138	RCN070221JN	81349	RESISTOR, FIXED, COMPOSITION	AST	EA	1
B-25	6	PAEZZ	5905-00-892-6941	RC07GP221J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	1
B-25	7	PAEZZ	5935-00-999-8713	004640-000-000	94375	CONNECTOR, RCPT, ELECTRICAL	CFY	EA	2
B-25	7	PAEZZ	5935-00-946-9144	U01619/U	81349	CONNECTOR, RCPT, ELECTRICAL	AST	EA	2
B-25	8	PAEZZ		24AMP042013THH PTFR	75037	SLERVING, TEFLO		EA	48
B-25	9	PAEZZ		20AMP042013THH PTFR	75037	SLERVING, TEFLO	AST	EA	1
B-25	10	PAEZZ	5945-00-999-8715	SI-2192	02288	RELAY, ARMATURE		EA	2
B-25	11	PAEZZ	5310-00-812-4294	WAS671C2	80205	NUT, FLAIN, NIKADON		EA	4
B-25	12	PAEZZ	5305-00-531-9521	MB35233-3	96906	SCREW, MACHINE	CFY	EA	4
B-25	12	PAEZZ	5305-00-054-5637	MB51997-3	96906	SCREW, MACHINE	AST	EA	4
B-25	13	PAEZZ	5310-00-543-4692	MB35333-69	96906	WASHER, LOCK		EA	4
B-25	14	PAEZZ	5910-00-155-2270	80023104X0250B3	56289	CAPACITOR, FIXED, CER DIELECTRIC		EA	1
B-25	15	PAEZZ	5950-00-921-3418	MB90537-37	96906	COIL, RADIO FREQUENCY		EA	3
B-25	16	PAEZZ	5905-00-683-7720	RC07GP510J	81349	RESISTOR, FIXED, COMPOSITION	CFY	EA	1
B-25	16	PAEZZ	5905-00-764-2479	RCN070510JN	81349	RESISTOR, FIXED, COMPOSITION	AST	EA	1
B-25	17	PAEZZ	5910-00-89-3125	UC10-503	71590	CAPACITOR, FIXED, CER DIELECTRIC		EA	8
B-25	18	PAEZZ	5935-00-945-0001	004609-000-801	94375	CONNECTOR, RCPT, ELECTRICAL	CFY	EA	3
B-25	18	PAEZZ	5935-00-911-6104	50-310-3196	98291	CONNECTOR, RCPT, ELEC, RF MIFTR	AST	EA	3
B-25	19	PAEZZ	5961-00-879-4964	2W3339	07263	TRANSISTOR		EA	2
B-25	20	PAEZZ	5961-00-943-9179	TKB2F019-028B	98978	RETAINER, TRANSISTOR		EA	2
B-25	21	PAEZZ	5310-00-043-4708	WAS620C2	80205	WASHER, FLAT		EA	2
B-25	22	KNZZ		1541026	05869	TRAY, LOWER CHASSIS RF UNIT	CFY	EA	1
B-25	22	KNZZ		1596768	05869	TRAY, LOWER CHASSIS RF UNIT	AST	EA	1
B-25	23	PAEZZ		760173-4	06090	TUBING, EXPANDED		EA	1
B-25	24	KNZZ		1541033	05869	COVER, CHAS TRAY LOWER-RF UNIT		EA	1
B-25	25	PAEZZ	5305-00-068-6532	MB35233-15	96906	SCREW, MACHINE	CFY	EA	4
B-25	25	PAEZZ	5305-00-054-5649	MB51997-15	96906	SCREW, MACHINE	AST	EA	4
B-25	26	PAEZZ	5310-00-734-5661	MB35337-78	96906	WASHER, LOCK	AST	EA	4

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SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
3-25	27	PARXX	5905-00-825-5592	RC0707161J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
3-25	27	PARXX	5905-00-887-9762	RC070161JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-25	28	PARXX	5905-00-686-3119	RC0707132J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
3-25	28	PARXX	5905-00-739-5004	RC070132JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-25	29	PARXX	5905-00-725-6995	RC0707271J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
3-25	29	PARXX	5905-00-758-5230	RC070271JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-25	30	PARXX	5905-00-681-9969	RC0707332J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
3-25	30	PARXX	5905-00-734-1056	RC070332JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-25	31	PARXX	5905-00-683-2242	RC0707471J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
3-25	31	PARXX	5905-00-734-1045	RC0707471JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-25	32	PARXX	5820-00-945-1311	VK13099	03550	MIXER, DOUBLE BALANCED		EA	1
3-25	33	PARXX	5950-00-999-1825	10634	03550	TRANSFORMER, RADIO FREQUENCY	CHY	EA	1
3-25	33	PARXX	5950-00-197-5777	15945	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
3-25	34	PARXX	5310-00-812-1294	NA8671C2	80205	NUT, FLAT, HEXAGON		EA	2
3-25	35	PARXX	5305-00-531-9521	MB35233-3	96906	SCREW, MACHINE	CHY	EA	2
3-25	35	PARXX	5305-00-054-5637	MB51957-3	96906	SCREW, MACHINE	ASY	EA	2
3-25	36	PARXX	5310-00-543-1652	MB35333-69	96906	WASHER, LOCK		EA	2
3-25	37	PARXX	5910-00-683-3152	ENL5-681J	72136	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
3-25	38	PARXX	5905-00-683-2243	RC0707151J	81349	RESISTOR, FIXED, COMPOSITION	CHY	EA	1
3-25	38	PARXX	5905-00-758-5223	RC070151JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
3-25	39	XREXX	5940-00-949-3100	411274	75382	BARRIER, TERMINAL		EA	1
3-25	40	PARXX	5940-00-168-9621	330837	00779	TERMINAL, LUG		EA	4
3-25	41	PARXX	5305-00-187-6354	MB51504-5	81349	SCREW, MACHINE	CHY	EA	2
3-25	41	PARXX	5305-00-054-5648	MB51957-14	96906	SCREW, MACHINE	ASY	EA	2
3-25	42	PARXX	5310-00-723-9676	NA8620C4L	80205	WASHER, FLAT		EA	2
3-25	43	PARXX	5310-00-734-5661	MB35337-78	96906	WASHER, LOCK	ASY	EA	2
3-25	44	XREXX		1541042	05869	BUSH, GROUND-OF UNIT	CHY	EA	1
3-25	45	XREXX	6145-00-814-1809	RC1964/U	81349	CABLE, RADIO FREQUENCY, COAXIAL		EA	1



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Figure B-25. RF module, upper tray.

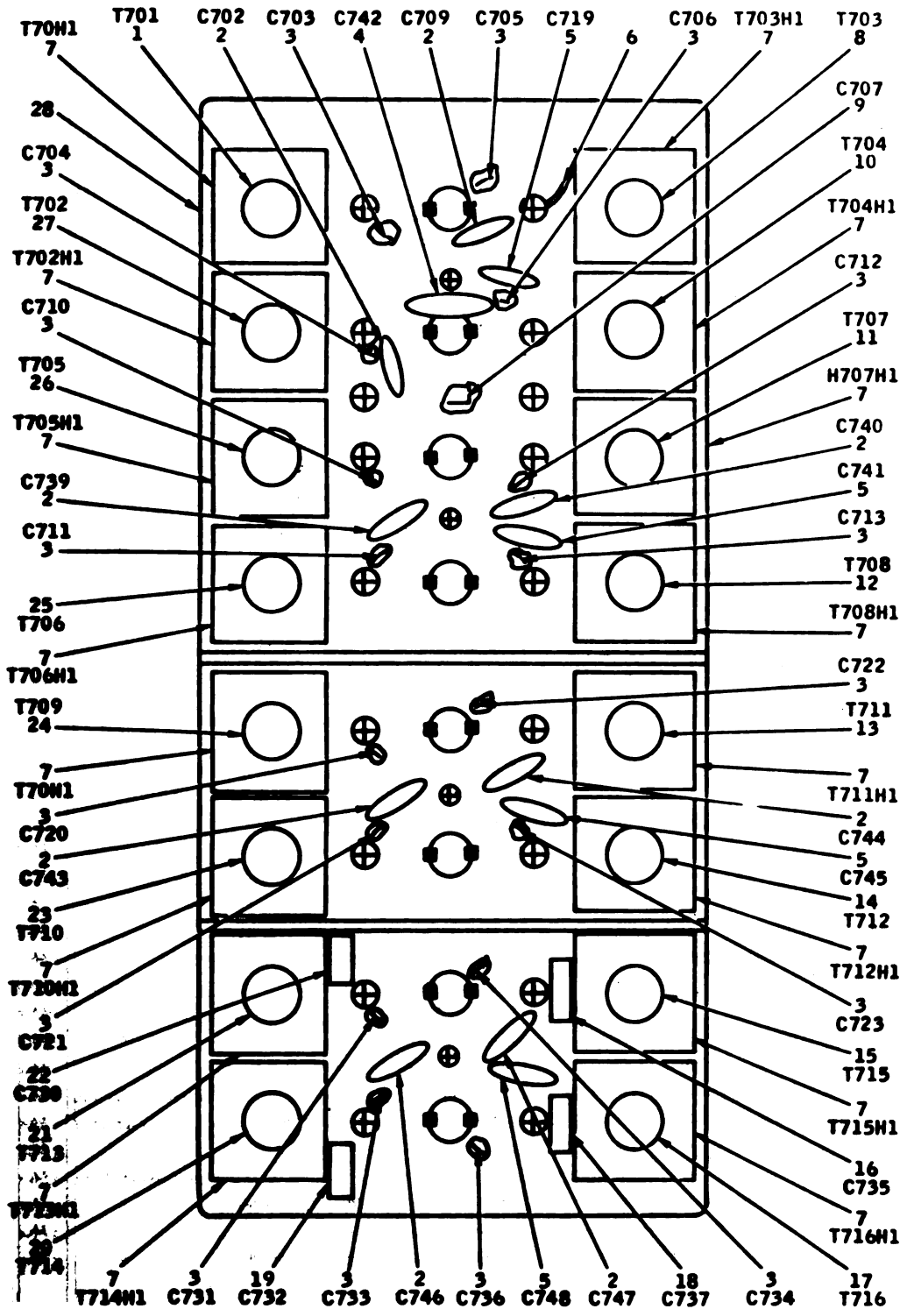
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SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
0-26		ADDHD		1559158	05869	TRAY ASSY, UPPER CHAS RF UNIT	CNY	EA	1
0-26		ADDHD		1596384	05869	TRAY ASSY, UPPER CHAS RF UNIT	ASY	EA	1
0-26	1	PAHZZ	5950-00-079-6077	13236	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	1	PAHZZ	5950-00-497-5788	15961	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	2	PAHZZ	5910-00-002-0335	CM05CD100D03	01349	CAPACITOR, FIXED, MICA DIELECTRIC		EA	8
0-26	3	PAHZZ	5910-00-004-4076	530-003E2P0-94R	72982	CAPACITOR, VAR, CER DIELECTRIC	CNY	EA	16
0-26	3	PAHZZ	5910-00-005-6425	530-003-1100	72982	CAPACITOR, VAR, CER, DIELECTRIC	ASY	EA	16
0-26	4	PAHZZ	5910-00-990-6743	DM20F562J	72136	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
0-26	5	PAHZZ	5910-00-044-4016	CM05D470J03	01349	CAPACITOR, FIXED, MICA DIELECTRIC		EA	4
0-26	6	PAHZZ		22AMG4201TNIM PTFE	75037	SLEEVING, TEFLON		EA	14
0-26	6	PAHZZ		24AMG4201THIM PTFE	75037	SLEEVING, TEFLON		EA	2
0-26	7	PAHZZ	5310-00-764-9564	MAS620C916L	00205	WASHER, FLAT	ASY	EA	16
0-26	8	PAHZZ	5950-00-079-6080	13238	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	8	PAHZZ	5950-00-497-5791	15963	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	9	PAHZZ	5910-00-043-1061	CT14-123K	00634	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
0-26	10	PAHZZ	5950-00-079-6104	13422	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	10	PAHZZ	5950-00-497-5792	15964	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	11	PAHZZ	5950-00-079-6003	13241	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	11	PAHZZ	5950-00-497-5794	15967	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	12	PAHZZ	5950-00-079-6109	13423	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	12	PAHZZ	5950-00-497-5795	15964	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	13	PAHZZ	5950-00-079-0091	13244	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	13	PAHZZ		15971	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	14	PAHZZ	5950-00-079-6133	13424	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	14	PAHZZ	5950-00-497-5801	15972	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	15	PAHZZ	5950-00-079-6096	13247	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	15	PAHZZ	5950-00-497-5804	15975	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	16	PAHZZ	5910-00-683-3152	UM15-681J	72136	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
0-26	17	PAHZZ	5950-00-079-6097	13248	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	17	PAHZZ	5950-00-497-5805	15976	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	18	PAHZZ	5910-00-615-5472	DM15-021J	72136	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
0-26	19	PAHZZ	5910-00-082-5032	CM05D331J03	01349	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1
0-26	20	PAHZZ	5950-00-079-6140	13431	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	20	PAHZZ	5950-00-497-5803	15974	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	21	PAHZZ	5950-00-011-4381	13246	03550	TRANSFORMER, RADIO FREQUENCY	CNY	EA	1
0-26	21	PAHZZ	5950-00-497-5802	15973	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
0-26	22	PAHZZ	5910-00-954-3508	CM05D241J03	01349	CAPACITOR, FIXED, MICA DIELECTRIC		EA	1

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-26	23	PAHZZ	5950-00-879-6090	13243	03550	TRANSFORMER, RADIO FREQUENCY	CHY	EA	1
B-26	23	PAHZZ	5950-00-497-5000	15970	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
B-26	24	PAHZZ	5950-00-879-6084	13242	03550	TRANSFORMER, RADIO FREQUENCY	CHY	EA	1
B-26	24	PAHZZ	5950-00-497-5798	15969	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
B-26	25	PAHZZ	5950-00-879-6082	13240	03550	TRANSFORMER, RADIO FREQUENCY	CHY	EA	1
B-26	25	PAHZZ	5950-00-497-5793	15966	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
B-26	26	PAHZZ	5950-00-879-6081	13239	03550	TRANSFORMER, RADIO FREQUENCY	CHY	EA	1
B-26	26	PAHZZ	5950-00-720-2786	15965	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
B-26	27	PAHZZ	5950-00-879-6079	13237	03550	TRANSFORMER, RADIO FREQUENCY	CHY	EA	1
B-26	27	PAHZZ	5950-00-497-5790	15962	03550	TRANSFORMER, RADIO FREQUENCY	ASY	EA	1
B-26	28	XBMZZ		1541030	05869	TRAY, UPPER CHASSIS-RF UNIT		EA	1



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Figure B-26. RF module, top view .

Change 2 B-88

SECTION II REPAIR PARTS LIST (CONTINUED)

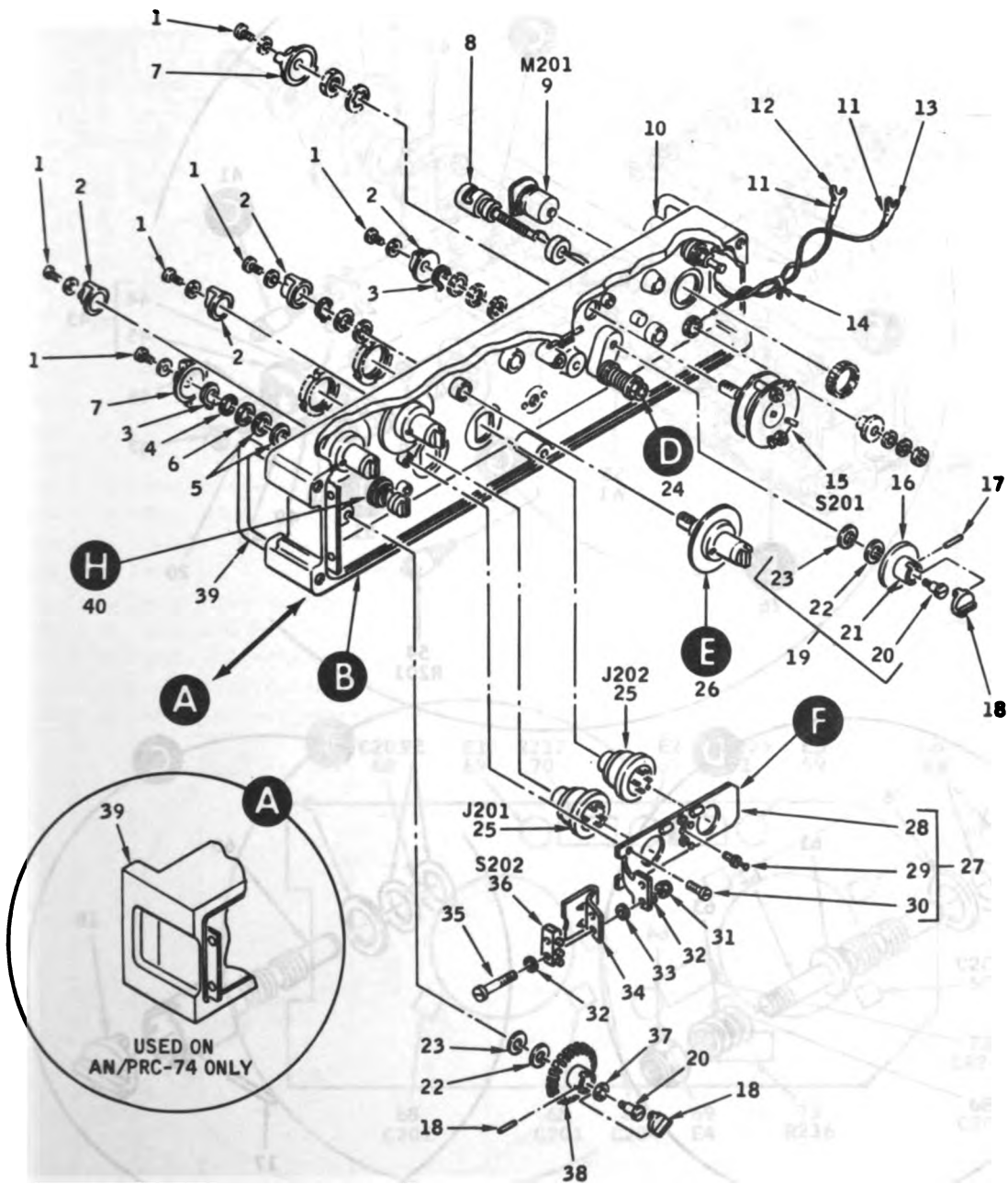
(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
GROUP: 010107 PANEL AND CHASSIS ASSEMBLY								
B-27		ANFMD		1559348	05869	FRONT PANEL ASSEMBLY (WIRED)	CNY	EA 1
B-27		ANFMD		1596200	05869	FRONT PANEL ASSEMBLY (WIRED)	ASY	EA 1
B-27	1	PANZZ		LP5604854	83038	SCREW, SELF-LOCKING		EA 9
B-27	2	PAOZZ	5355-00-944-4739	V24-10LK-996939	08730	KNOB, CONTROL		EA 7
B-27	3	PANZZ	5340-00-298-6564	MS16624-4025	96906	RING, RETAINING		EA 8
B-27	4	PANZZ	5310-00-764-9564	MAS620C416L	80205	WASHER, FLAT		EA 10
R B-27	5	PANZZ	3120-00-139-6889	1540917-001	05869	BEARING, THRUST		EA 24
R B-27	6	PANZZ	3120-00-147-3265	1540917-002	05869	BEARING, THRUST		EA 15
B-27	7	PAOZZ	5355-00-999-9389	V25-10LK-996939	08730	KNOB, CONTROL		EA 2
B-27	8	PANZZ	5940-00-999-4030	97-66-28BLACK	72825	POST, BINDING	CNY	EA 1
B-27	8	PANZZ	5940-00-926-8162	9766-28BLACK	00629	POST, BINDING	ASY	EA 1
R B-27	9	PAFZZ	6625-00-403-9087	951-15542	77221	METER, DC		EA 1
B-27	10	PANZZ	5940-00-957-4929	97-66-28RED	72825	POST, BINDING	CNY	EA 1
R B-27	10	PANZZ	5340-00-926-8162	9766-28URED	00629	POST, BINDING	ASY	EA 1
R B-27	11	PANZZ	5970-00-829-2339	995057-029	09795	INSULATION, SLEEVING	CNY	EA 2
C B-27	11	PANZZ		760173-4	06090	TUBING, EXPANDED	ASY	EA 2
R B-27	12	PANZZ	5940-00-168-9692	330838	00779	TERMINAL, LUG	CNY	EA 1
B-27	13	PANZZ	5940-00-811-3407	321288	00779	TERMINAL, LUG		EA 1
C B-27	14	PAFZZ		MIL-T-713WHTTY-PCL2	81349	TAPE, LACING	CNY	EA 1
C B-27	14	PAFZZ		MIL-T-713BLKTY-PCL2	81349	TAPE, LACING	ASY	EA 1
B-27	15	PANZZ	5930-00-94-2424	238792F1	76854	SWITCH, ROTARY		EA 1
B-27	16	XANZZ		1540927	05869	DISC, DRIVE		EA 1
B-27	17	PANZZ	5315-00-811-5439	CS-1	00141	PIN, SPRING		EA 10
B-27	18	XBNZZ		996924-001	19036	BLOCK, COUPLER		EA 9
R B-27	19	PANZZ	5820-00-118-3153	1540926	05869	COUPLER ASSEMBLY DISC		EA 1
R B-27	20	PANZZ	5305-00-143-1753	PR431-1	05046	SCREW, SHOULDER		EA 3
B-27	21	XANZZ		1540928	05869	COUPLER, CONTROL, PEAK NOISE		EA 1
B-27	22	PANZZ		1540917-003	05869	BEARING, THRUST		EA 3
B-27	23	PANZZ	5310-00-638-9857	AN960C6L	81349	WASHER, FLAT	ASY	EA 3
B-27	24	PANZZ	5820-00-943-9240	1540922	09869	SHAFT ASSY, PEAK NOISE CONT		EA 1
B-27	25	PANZZ	5935-00-832-6775	164-183-100	02660	CONNECTOR, RCPT, ELECTRICAL		EA 2
B-27	26	PANZZ	5820-00-999-6634	1540950	05869	SHAFT ASSY, FREQ CONTROL		EA 3
B-27	27	XBNZZ		1558382	05869	BRACKET, ELECTRICAL SWITCH		EA 1
B-27	28	XANZZ		1558382-999	05869	BRACKET	CNY	EA 1
B-27	29	PANZZ	5940-00-728-9988	14900	88245	TERMINAL, STAND OFF, INSULATED		EA 1
B-27	30	PANZZ	5305-00-616-6291	MS35233-12	96906	SCREW, MACHINE		EA 2
B-27	31	PANZZ	5310-00-891-5551	22NTH26	13257	NUT, CLINCH, FLUSH MOUNTING	CNY	EA 2

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
8-27	31	PAHZZ	5310-00-968-3523	NAS1291-02	80205	NUT, SELF-LOCKING	ASY	EA	2
8-27	32	PAHZZ	5310-00-043-4708	NAS620C2	80205	WASHER, FLAT	ASY	EA	4
8-27	33	PAHZZ	5310-00-641-6643	8706-1	07154	SPACER, SLEEVE		EA	2
8-27	34	PAHZZ	5930-00-878-5048	1540915	05869	SPRING, SWITCH CALIBRATE		EA	1
8-27	35	PAHZZ	5305-00-579-3018	MS35233-8	96906	SCREW, MACHINE	CNY	EA	2
8-27	35	PAHZZ	5305-00-054-5642	MS51957-8	96906	SCREW, MACHINE	ASY	EA	2
8-27	36	PAHZZ	5930-00-583-6582	115M1	91929	SWITCH, SENSITIVE	CNY	EA	1
8-27	36	PAHZZ	5930-00-646-4619	MS25085-1	96906	SWITCH, SENSITIVE	ASY	EA	1
8-27	37	PAHZZ	5310-00-809-8546	MS27183-8	96906	WASHER, FLAT		EA	1
8-27	38	PAHZZ	5020-00-136-0428	996896-004	00141	GEAR, SPUR		EA	1
8-27	39	AHFHD		1540952	05869	PANEL, FRONT, RCVR-TRANSMITTER	CNY	EA	1
8-27	39	AHFHD		1596201	05869	PANEL, FRONT, RCVR-TRANSMITTER	ASY	EA	1
8-27	40	PAHZZ	5820-00-943-9239	1540936	05869	SHAFT ASSEMBLY, CLARIFIER		EA	1
8-27	41	PAHZZ	5820-00-943-9164	1540942	05869	SHAFT ASSY, CONTROL, PWR AMPL		EA	2
8-27	42	PAFZZ		2-269C267-5	83259	PACKING, PREFORMED		EA	1
8-27	43	PAHZZ		1557788	05869	GEAR, DRIVEN, BAND SWITCH		EA	1
8-27	44	XAHZZ		MS51923-185	96906	PIN, SPRING		EA	2
8-27	45	XAHZZ		1557788-099	05869	GEAR		EA	1
8-27	46	PAHZZ	5315-00-879-5701	CS-2	00141	PIN, SPRING		EA	1
8-27	47	XBMZZ		1559405	05869	COUPLER, SHAFT, BAND SWITCH		EA	1
8-27	48	PAHZZ	5305-00-980-7601	NAS1352C08-6	80205	SCREW, CAP, SOCKET HEAD		EA	1
8-27	49	PAHZZ	5310-00-543-2739	MS35333-72	96906	WASHER, LOCK		EA	1
8-27	50	PAHZZ	5310-00-809-8546	MS27183-8	96906	WASHER, FLAT	ASY	EA	1
8-27	51	PAHZZ		1557788	05869	IDLER ASSEMBLY		EA	1
8-27	52	PAHZZ	5310-00-989-0640	NAS620C10	80205	WASHER, FLAT		EA	1
8-27	53	PAHZZ		1557789	05869	DRIVER ASSEMBLY		EA	1
8-27	54	PAHZZ	5905-00-951-7734	1540913	05869	POTENTIOMETER, MODIFIED		EA	1
8-27	55	XBMZZ		1560019	05869	HARNES, CABLE, RCVR-TRANSMITTER		EA	1
8-27	56	XBFZZ		1540912	05869	CLAMP, SHAFT		EA	2
8-27	57	PAHZZ	5310-00-138-0178	PN1814-448P18	80539	NUT, SELF-LOCKING		EA	1
8-27	58	PAOZZ	5355-00-444-4619	V25-2BLK-996939	08730	KNOB, CONTROL		EA	1
8-27	59	XAHZZ		AN6227-2	81309	PACKING, O RING, HYDRAULIC		EA	21
8-27	60	XAHZZ		1540943	05869	SHAFT, CONTROL, PWR AMPL		EA	2
8-27	61	PAHZZ	5040-00-138-8238	1540923	05869	COLLAR, THRUST		EA	1
8-27	62	PAHZZ	5820-00-464-0132	1540924	05869	SHAFT, CONTROL-PEAK-NOISE		EA	1
8-27	63	XBMZZ		1540925-002	05869	SPRING, HELICAL, COMPRESSION		EA	1
8-27	64	PAHZZ	5310-00-596-7981	79NTH82	13257	NUT, CLINCH, FLUSH MOUNTING		EA	1
8-27	65	XAHZZ		1540946-001	05869	DIAL, INDICATING		EA	1
8-27	66	XAHZZ		1540951	05869	SHAFT, CONTROL-FREQUENCY CONT		EA	3
8-27	67	XAHZZ		1576456	05869	SPACER, RING		EA	3

SECTION H REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCN	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-27	68	PAMZZ	5910-00-068-4475	CK103	71590	CAPACITOR, FIXED, CER, DIELECTRIC		EA	8
B-27	69	XAMZZ		RSTSH1TUR-P2	98291	TERMINAL, INSULATED		EA	4
C-27	70	PAMZZ	5905-00-682-4101	RC07CF752J	81349	RESISTOR, FIXED, COMPOSITION	CNY	EA	1
B-27	70	PAMZZ	5905-00-141-1132	RCR076752JM	81349	RESISTOR, FIXED, COMPOSITION	ASY	EA	1
B-27	71	PAMZZ	5961-00-845-6450	JAM1M756A	81349	SEMICONDUCTOR DEVICE, DIODE		EA	1
B-27	72	PAMZZ	5961-00-646-4611	JAM1M457	81349	SEMICONDUCTOR DEVICE, DIODE		EA	1
B-27	73	PAMZZ	5905-00-988-3019	RM69V120	81349	RESISTOR, FIXED, WIREWOUND		EA	1
B-27	74	XAMZZ		1557783	05869	SHAFT, CONTROL, MNZ		EA	1
B-27	75	XAMZZ		MS20426AD2-4	96906	RIVET, SOLID		EA	1
B-27	76	XAMZZ		1557782	05869	DRIVER, BAND SWITCH		EA	1
B-27	77	XAMZZ		1557784	05869	DIAL, INDICATING		EA	1
B-27	78	XAMZZ		1540937	05869	SHAFT, CONTROL, CLARIFIER		EA	1
B-27	79	XAMZZ		610915	00141	GEAR, SPUR		EA	1
B-27	80	XAMZZ		1540940	05869	SHAFT, DRIVE, COUPLER-CLARIFIER		EA	1
B-27	81	XAMZZ		996924-002	19036	BLOCK COUPLER		EA	1
B-27	82	XAMZZ		AY0-400FL	00141	SPRING, OPEN WOUND		EA	1
B-27	83	XAMZZ		1557785	05869	GEAR		EA	1
B-27	84	XAMZZ		NAS671C18	80205	NUT, PLAIN, HEXAGON		EA	1
B-27	85	XAMZZ		MS35537-81	96906	WASHER, LOCK		EA	1
B-27	86	XAMZZ		1557780	05869	PLATE, MOUNTING		EA	1
B-27	87	XAMZZ		1557781	05869	IDLER, BAND SWITCH		EA	1
B-27	88	XAMZZ		NAS1297-3-5	80205	BOLT, SHOULDER		EA	1

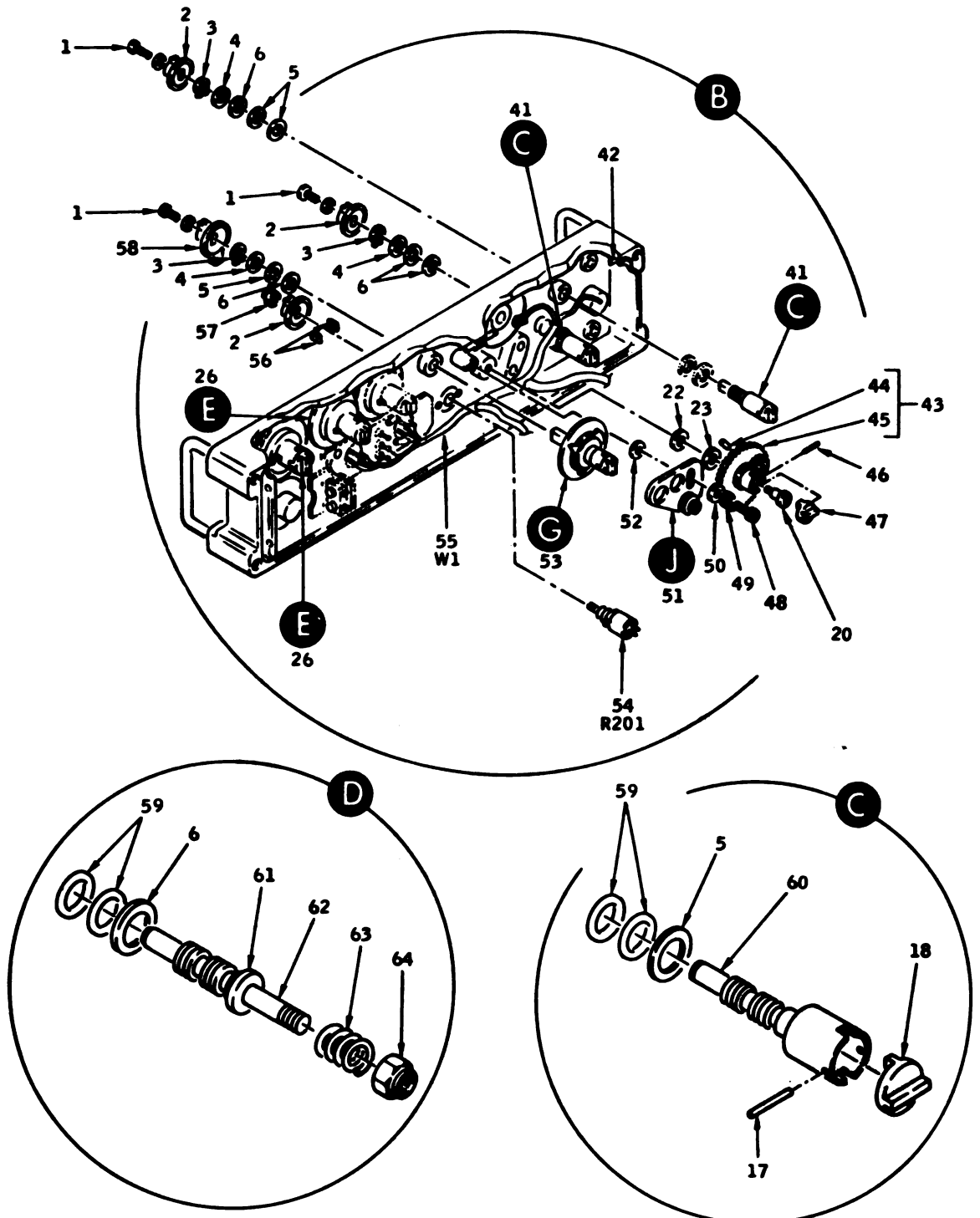


EL5820-890-35P-TM-27 (1)

Figure B-27. Panel and chassis assembly

(Sheet 1 of 4).

Change 2 B-83

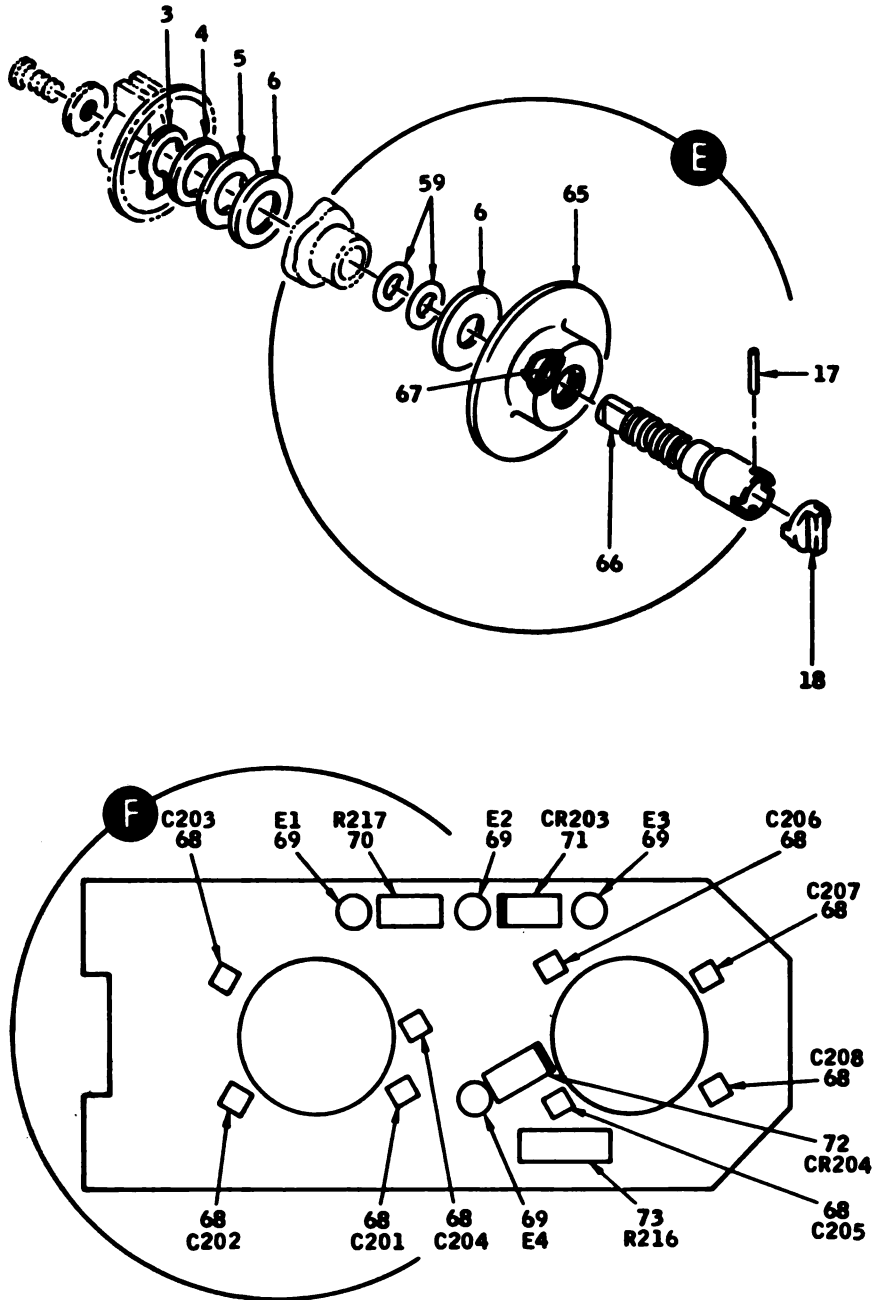


EL6820-600-36P-TM-27 (2)

Figure B-27. Panel and chassis assembly

(Sheet 2 of 4).

B-04 Change 2

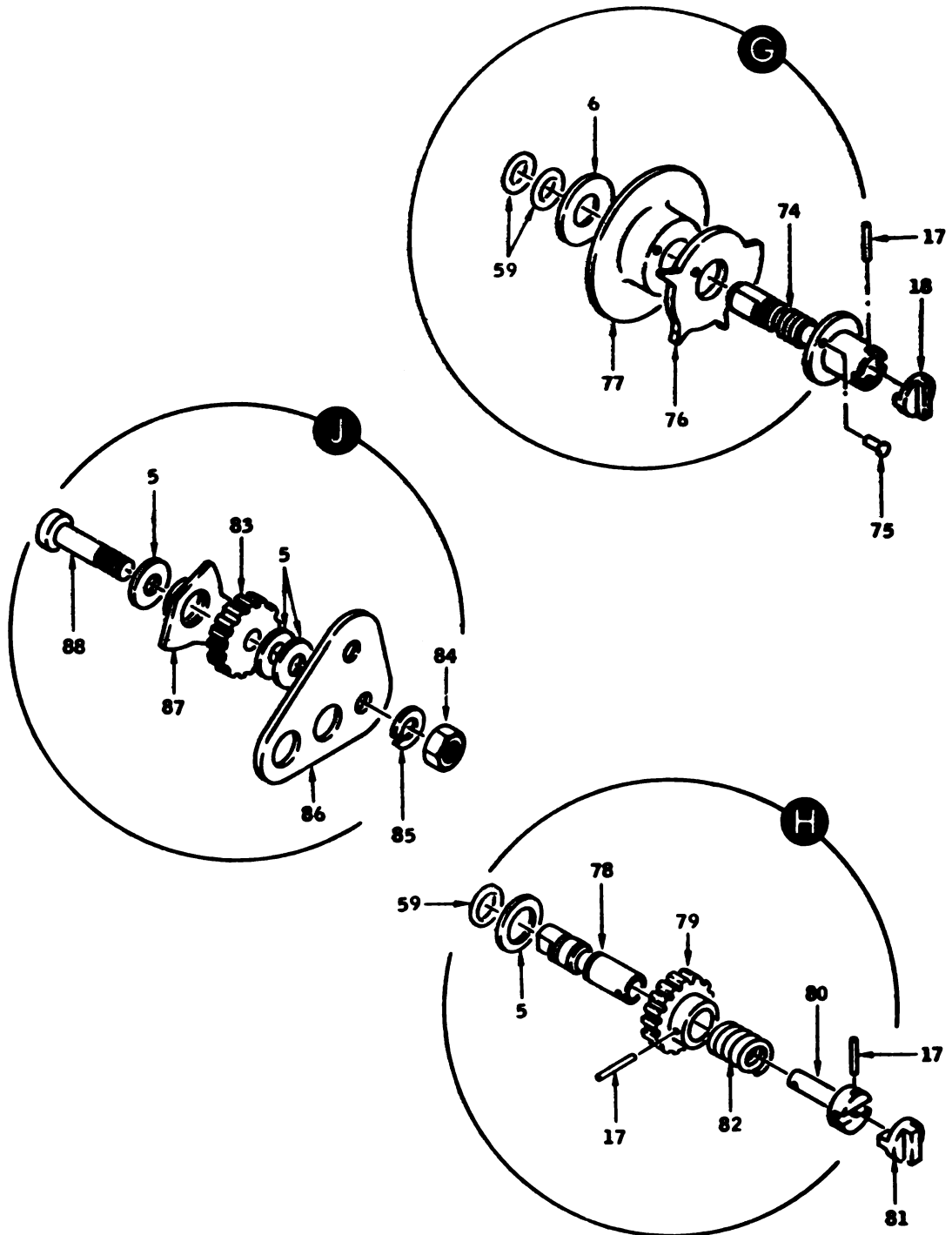


EL5820-800-35P-TM-27 (3)

Figure B-27. Panel and chassis assembly

(Sheet 3 of 4).

Change 2 B-85



EL6820-800-35P-TM-27 (4)

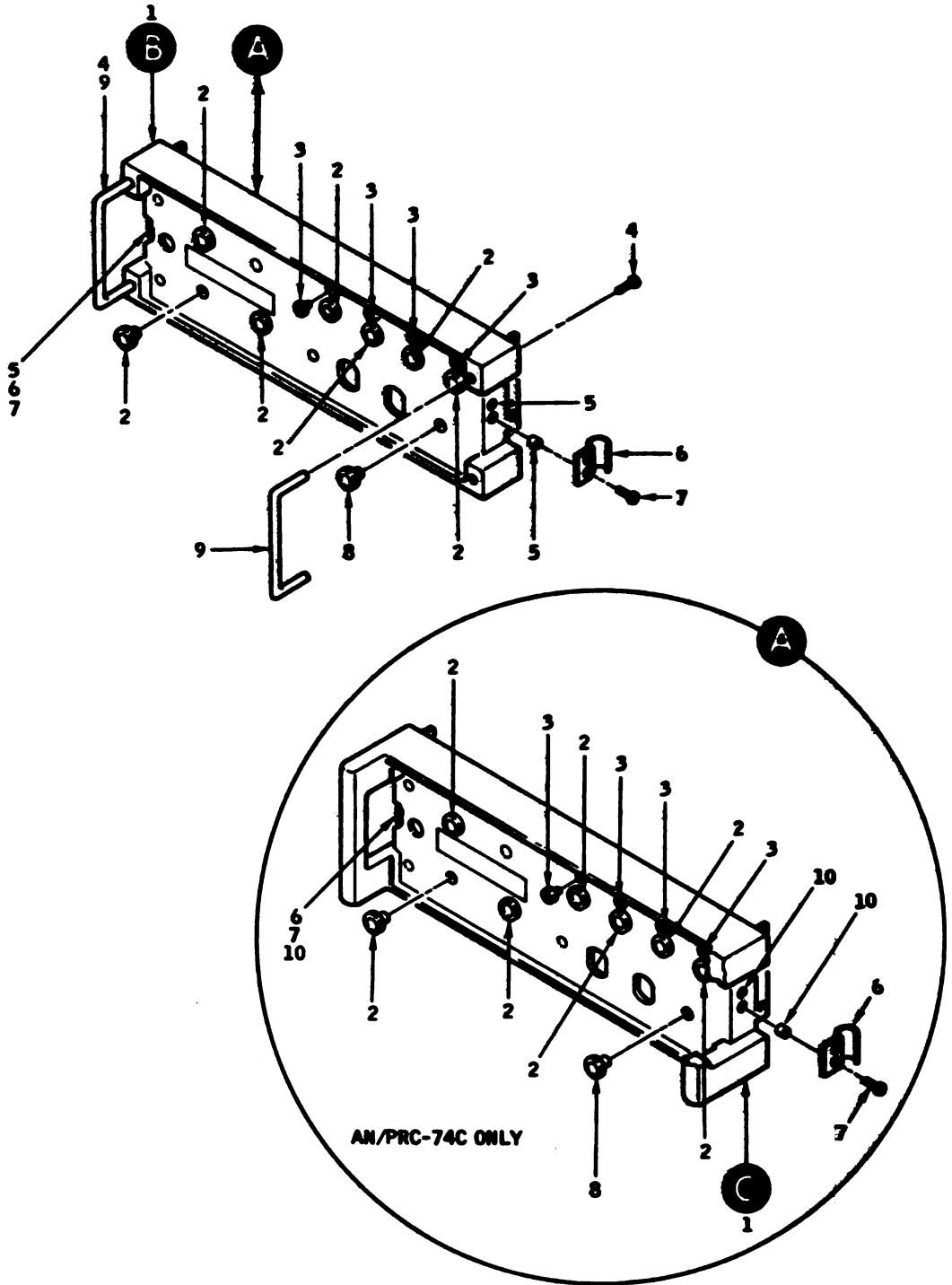
Figure B-27. Panel and chassis assembly

(Sheet 4 of 4).

B-86 Change 2

SECTION II REPAIR PARTS LIST (CONTINUED)

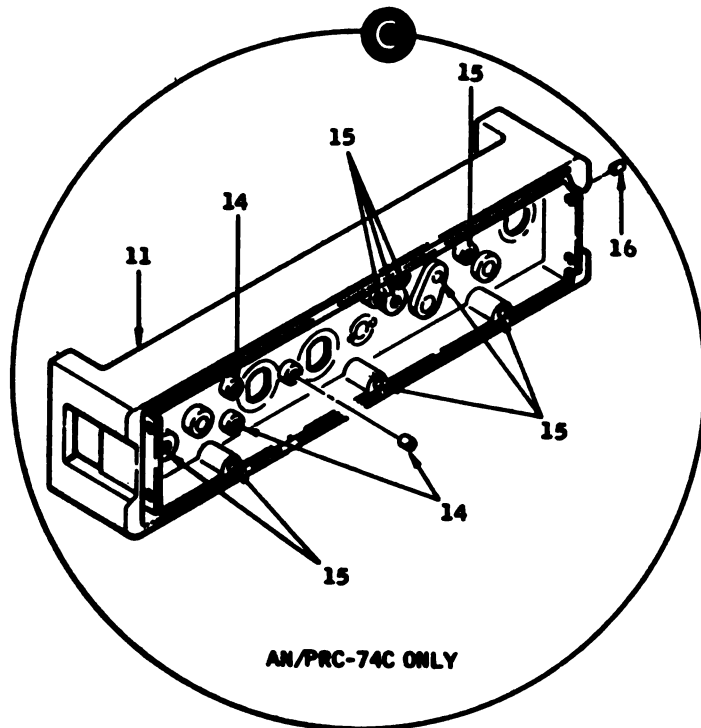
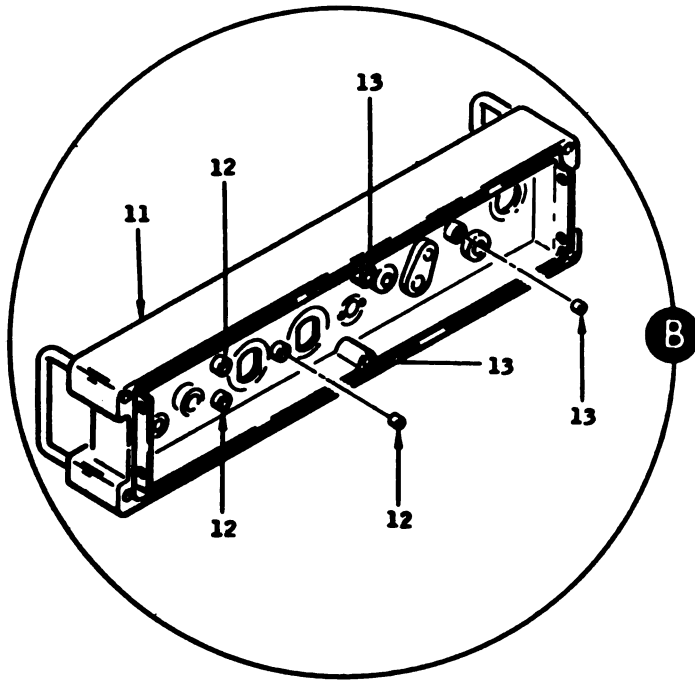
(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
0-28		ANFHD		1540952	05069	PANEL, FRONT, RCVR-TRANSMITTER	CNY	EA	1
0-28		ANFHD		1596201	05069	PANEL, FRONT, RCVR-TRANSMITTER	ASY	EA	1
0-28	1	XBNZZ		1540956	05069	PANEL, FRONT, MACHINED	CNY	EA	1
0-28	1	XBNZZ		1594446	05069	PANEL, FRONT, MACHINED	ASY	EA	1
0-28	2	PANZZ	3120-00-421-1126	1540954	05069	BUSHING		EA	7
0-28	3	PANZZ	5353-00-130-0501	1540955	05069	WINDOW, DIAL	CNY	EA	4
0-28	3	PANZZ		1569409	05069	WINDOW, DIAL	ASY	EA	4
0-28	4	PANZZ	5305-00-908-7606	NAB1552C08-16	80205	SCREW, CAP, SOCKET HEAD	CNY	EA	4
0-28	5	XBNZZ	5340-00-017-1161	MS122138	96906	INSERT, SCREW THREAD	CNY	EA	4
0-28	6	PAFZZ	5340-00-947-9800	1540910	05069	HOOK, LATCH	CNY	EA	2
0-28	6	PAFZZ	4030-00-718-0110	1596203	05069	HOOK, LATCH	ASY	EA	2
0-28	7	PAFZZ	5305-00-630-4777	MS35233-27	96906	SCREW, MACHINE	CNY	EA	4
0-28	7	PAFZZ	5305-00-054-6651	MS1957-27	96906	SCREW, MACHINE	ASY	EA	4
0-28	8	PAFZZ	5020-00-464-0127	1540953	05069	BUSHING, SHAFT-CONT-CLARIFIER		EA	1
0-28	9	PAFZZ	5340-00-999-4963	BPR330	05046	HANDLE, BOW	CNY	EA	2
0-28	10	XBNZZ	5340-00-015-4930	MS21209C0615	96906	INSERT, SCREW THREAD	ASY	EA	4
0-28	11	XBNZZ		1540957	05069	PANEL, FRONT, CASTING	CNY	EA	1
0-28	11	XBNZZ		1594445	05069	PANEL, FRONT, CASTING	ASY	EA	1
0-28	12	XBNZZ	5340-00-042-5920	MS122116	96906	INSERT, SCREW THREAD	CNY	EA	3
0-28	13	XBNZZ	5340-00-297-3041	MS122119	96906	INSERT, SCREW THREAD	CNY	EA	3
0-28	14	XBNZZ	5340-00-597-3302	MS21208P1-15	96906	INSERT, SCREW THREAD	ASY	EA	3
0-28	15	XBNZZ	5340-00-015-4929	MS21209C0815	96906	INSERT, SCREW THREAD	ASY	EA	9
0-28	16	XBNZZ	5340-00-631-7894	MS21209C0415	96906	INSERT, SCREW THREAD	ASY	EA	1



EL5820-890-35P-TM-28 ①

Figure 1-28. Handle and clamp assembly, top view
(Sheet 1 of 2).

8-68 Change 2



EL5820-590-35P-TM-28 (2)

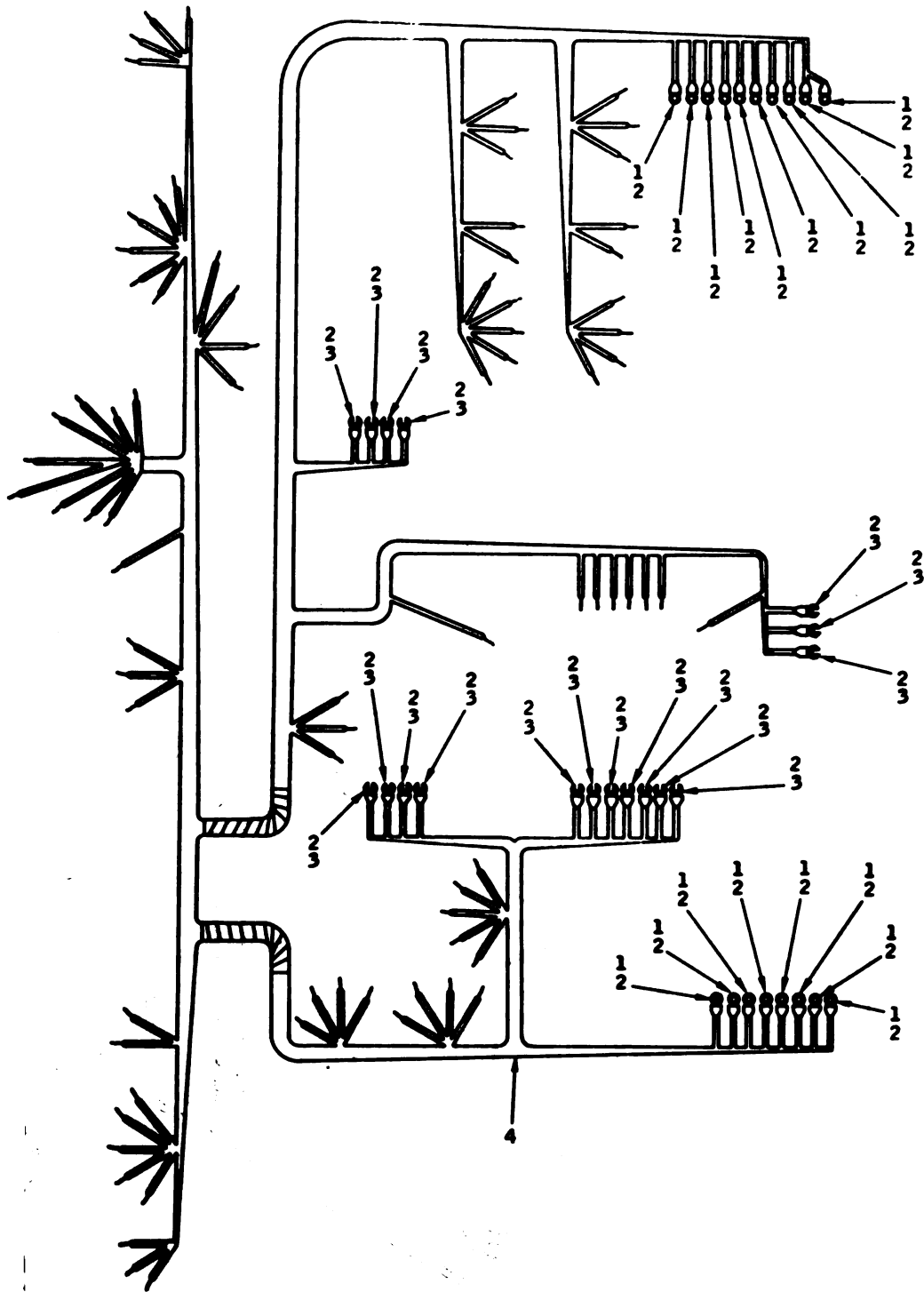
Figure B-28. Handle and clamp assembly, top view
(Sheet 2 of 2).

Change 2 8-68

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
D-29		XBMZZ		1560019	05869	HARNES, CABLE-RCVR-TRANSMITTER	EA	1
D-29	1	PAHZZ	5940-00-160-9691	330837	00779	TERMINAL, LUG	EA	18
D-29	2	PAHZZ		760173-4	06090	TUBING, EXPANDED	EA	36
D-29	3	PAHZZ	5940-00-160-9692	330830	00779	TERMINAL, LUG	EA	18
D-29	4	XBMZZ	6145-00-816-1209	RG196A-U	81349	CABLE, RADIO FREQUENCY, COAX	EA	1

B-100 Change 2

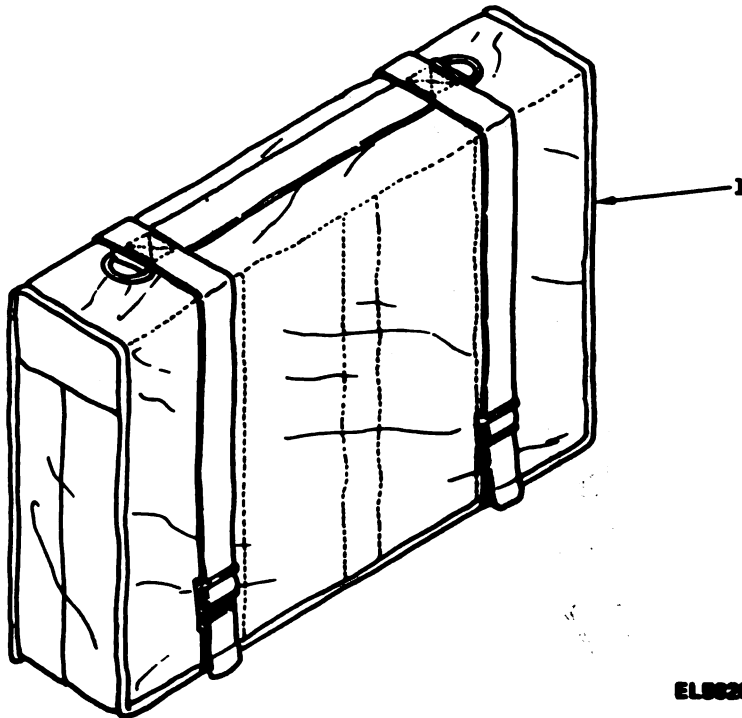


EL5820-590-35P-TM-29

Figure B-29. Wiring diagram, front panel.

Change 2 B-101

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE CN CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNST
(A) FIG NO.	(B) ITEM NO.								
B-30	1	PROCS	8105-00-921-6711	CW-863/PRC-74	05869	GROUP: 02 ACCESSORIES GROUP: 0201 ACCESSORIES ASSEMBLY GROUP: 020101 ACCESSORY BAG CW-863/PRC-74 BAG, ACCESSORY CARRYING		EA	1



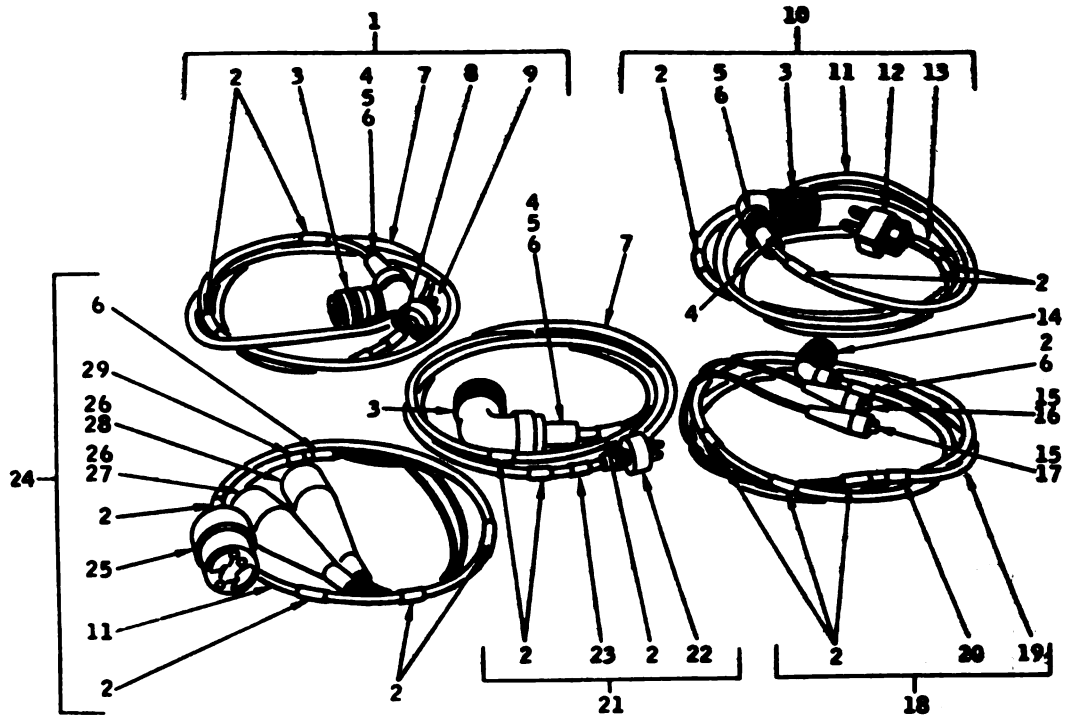
EL5820-500-35P-TM-30

Figure B-30. Bag, Accessory CW-863/PRC-74.

B-102 Change 2

SECTION H REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT	
(A) FIG NO.	(B) ITEM NO.									
						GROUP: 020102 CABLE ASSEMBLIES CX-10239/PRC-74				
B-31	1	PAGWH	5995-00-945-1922	1541131-002	05069	CABLE ASSY, SPCL ELEC	CHY	EA	1	
B-31	1	PAGWH	5995-00-495-1004	1590067-002	05069	CABLE ASSY, SPCL ELEC	ASY	EA	1	
C	B-31	2	PAMZZ	9330-00-138-2361	MIL-1-23053/5	06090	TUBING, 0.500ID-CL1BLACK	EA	16	
B-31	3	PAMZZ	5935-00-079-7402	MS3100R22-55	96906	CONNECTOR, PLUG ELEC	EA	3		
B-31	4	PAMZZ	5540-00-020-4535	AN3420-6	81349	BUSHING, CABLE ADPT	EA	3		
B-31	5	PAMZZ	5340-00-141-6944	AN3420-8	81349	BUSHING, CABLE ADPT	ASY	EA	3	
B-31	6	PAMZZ	5340-00-663-2125	AN3420-10	81349	BUSHING, CABLE ADPT	ASY	EA	3	
B	B-31	7	PAMZZ	6145-00-204-0579	C002MEF3-10-0340	81349	CABLE, POWER ELEC	ASY	EA	2
B-31	8	XBMZZ		1557527-002	05069	NAMEPLATE, CABLE ASSY	EA	1		
B-31	9	PAMZZ	5935-00-043-7362	MS24663	96906	CONNECTOR, PLUG ELEC	EA	1		
B-31	10	PAGZZ	5995-00-945-1936	1541131-001	05069	CABLE ASSY, SPCL ELEC	CHY	EA	1	
B-31	10	PAGZZ	5995-00-495-0999	1590067-001	05069	CABLE ASSY, SPCL ELEC	ASY	EA	1	
B	B-31	11	PAMZZ	6145-00-635-4054	C002MEF2-16-0335	81349	CABLE, PWR ELEC	ASY	EA	2
B-31	12	PAMZZ	5935-00-259-1004	7092011539N0	74545	CONNECTOR, PLUG ELEC	EA	1		
B-31	13	XBMZZ		1557527-001	05069	NAMEPLATE, CABLE ASSY	ASY	EA	1	
B-31	14	PAMZZ	5935-00-056-7900	MS3100R1253P	96906	CONNECTOR, PLUG ELEC	EA	1		
B-31	15	PAMZZ	5940-00-220-9775	45-C	76545	CLIP, ELECTRICAL	CHY	EA	2	
B-31	15	PAMZZ		PC1	81349	CLIP, ELECTRICAL	ASY	EA	2	
B-31	16	PAMZZ	5975-00-105-3905	47-RED	76545	INSULATOR	EA	1		
B-31	17	PAMZZ	5975-00-226-6676	47-BLACK	76545	INSULATOR	EA	1		
B-31	18	PAGZZ	5995-00-945-1001	1541131-005	05069	CABLE ASSY, SPCL ELEC	CHY	EA	1	
B-31	18	PAGZZ	5995-00-494-1007	1590067-005	05069	CABLE ASSY, SPCL ELEC	ASY	EA	1	
B	B-31	19	PAMZZ	6145-00-548-1250	C002MEF2-10-0310	81349	CABLE, PWR ELEC	ASY	EA	1
B-31	20	XBMZZ		1557527-003	05069	NAMEPLATE, CABLE ASSY	EA	1		
B-31	21	PAGZZ	5995-00-945-1900	1541131-003	05069	CABLE ASSY, SPCL ELEC	CHY	EA	1	
B-31	21	PAGZZ	5995-00-493-1005	1590067-003	05069	CABLE ASSY, SPCL ELEC	ASY	EA	1	
B-31	22	PAMZZ	5935-00-642-4237	70556	74545	CONNECTOR, PLUG ELEC	EA	1		
B-31	23	XBMZZ		1557527-003	05069	NAMEPLATE, CABLE ASSY	EA	1		
B-31	24	PAGZZ	5995-00-945-1002	1541131-004	05069	CABLE ASSY, SPCL ELEC	CHY	EA	1	
B-31	25	PAMZZ	5935-00-258-0590	7091	74545	CONNECTOR, PLUG ELEC	EA	1		
B-31	26	PAMZZ	5940-00-204-8350	24A	76545	CLIP, ELECTRICAL	EA	2		
B-31	27	PAMZZ	5975-00-908-0649	26-BLACK	76545	INSULATOR	EA	1		
B-31	28	PAMZZ	5935-00-073-3300	26-RED	76545	INSULATOR	EA	1		
B-31	29	XBMZZ		1557527-004	05069	NAMEPLATE, CABLE ASSY	EA	1		



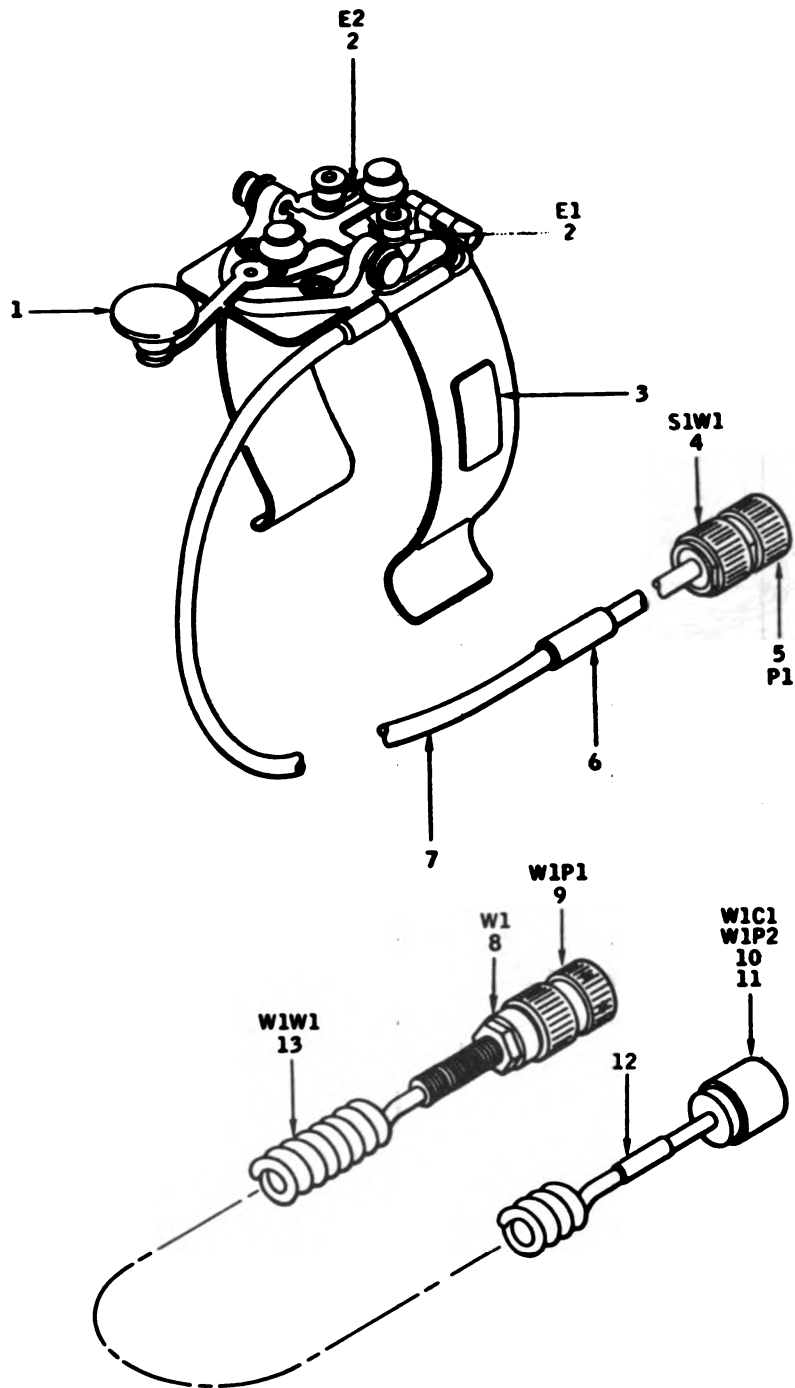
EL6820-800-35P-TM-31

Figure B-31. Cable Assemblies CX-10239/PRC-74.

B-104 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FCQM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) P/B NO.	(B) ITEM NO.					USABLE ON CODE		
						GROUP: 080105 KEY, TELEGRAPH KY-562/U		
B-32		AF0FD		KY-562/U	07869	KEY ASBY, TELEGRAPH	EA	1
B-32	1	PAFEE	5805-00-409-1106	AMP30371A	12138	KEY, TELEGRAPH ASBY	EA	1
B-32	2	PAFEE	5940-00-935-8134	A510-06	98410	TERMINAL, I/O	EA	2
B-32	3	KAPEE		1540911-012	07869	BASEPLATE	EA	1
B-32	4	PAFVF	5880-00-089-9196	CX-11468/U	07869	CABLE ASBY, PWR ELECTRICAL	EA	1
B-32	5	PAFEE	5935-00-990-8035	02290	81349	CONNECTOR PLUG ELECTRICAL	EA	1
B-32	6	KAPEE		1549962	07869	BASEPLATE, CABLE	EA	1
B-32	7	PAFEE	6145-00-688-9937	CO-081478-180850	81349	CABLE, PWR ELECTRICAL	EA	1
B-32	8	PAFVF	5995-00-930-7016	CX-10829/PWC-74	07869	CABLE ASBY, PWR ELECTRICAL	EA	1
B-32	9	KAPEE		164-188-1001	08660	CONNECTOR, PLUG ELECTRICAL	EA	1
B-32	10	KAPEE		WFO04X103H	09454	CAPACITOR, FID CERAMIC	EA	1
B-32	11	KAPEE		126-195	08660	CONNECTOR, PLUG ELECTRICAL	EA	1
B-32	12	KAPEE		1575108	07869	BASEPLATE, CABLE	EA	1
B-32	13	KAPEE		8415	70903	CABLE, RETRACTABLE	EA	1



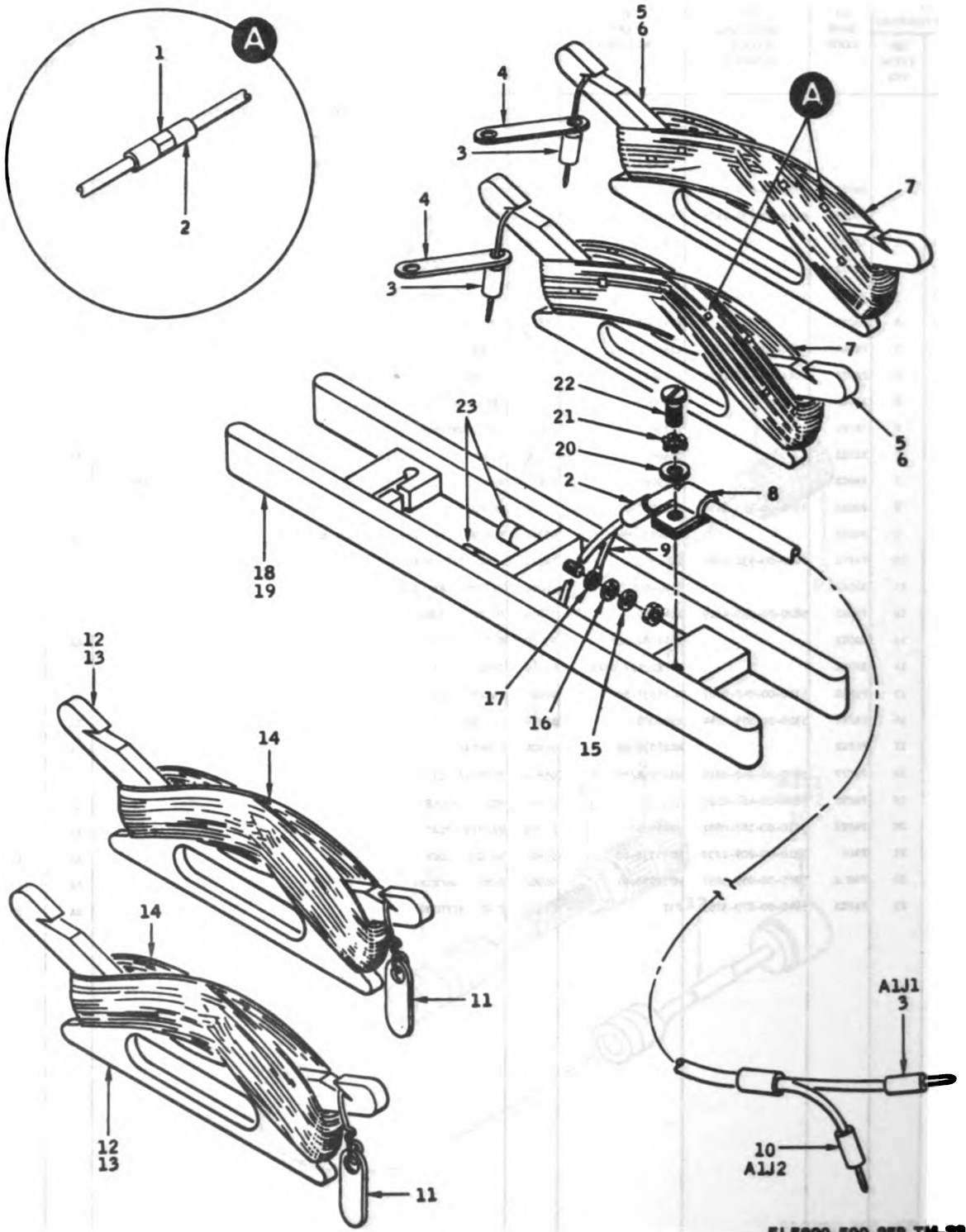
EL5820-800-35P-TM-32

Figure B-32. Key, Telegraph KY-562/U.

B-106 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
						GROUP: 03 ANTENNA KIT MK-911A/PRC-74 AND MK-911B/PRC-74		
						GROUP: 0301 ANTENNA KIT		
B-33		PROZZ	5820-00-832-8210	MK-911A/PRC-74	05869	KIT, WIRE ANTENNA	CSY	EA 1
B-33		PROFF	5985-00-432-1485	MK-911B/PRC-74	05869	KIT, WIRE ANTENNA	ASY	EA 1
B-33	1	XAOZZ		CORI-338	13476	TAG		EA 26
B-33	2	XAOZZ		760293-5	96904	SLEEVING, ELECTRICAL		EA 20
B-33	3	PAPEZ	5935-00-578-3494	105-302	74970	JACK, TIP RED		EA 3
B-33	4	XAOZZ		1541083	05869	LINK ANTENNA		EA 2
B-33	5	PAOZZ	5820-00-935-5074	1560017	05869	ANTENNA, WIRE	CSY	EA 2
B-33	5	PAOZZ	5985-00-452-1486	1573401	05869	ANTENNA, WIRE	ASY	EA 2
B-33	6	XAOZZ		1560018	05869	REEL, ANTENNA	CSY	EA 2
B-33	6	XAOZZ		1573402	05869	REEL, ANTENNA	ASY	EA 2
B-33	7	XAOZZ		996926-93	05436	WIRE	CSY	EA 93
B-33	7	XAOZZ		996926-117	05436	WIRE	ASY	EA 117
B-33	8	PAOZZ	5340-00-753-3456	MS23281-2	96906	CLAMP, LOOP		EA 1
B-33	9	PAPEZ		760293-004	05869	TUBING, FLEXIBLE, POLYOLEFIN		EA 2
B-33	10	PAPEZ	5935-00-932-2864	105-303	74970	JACK, TIP, BLACK		EA 1
B-33	11	XAOZZ		2100-808	10266	WEIGHT, LEAD BAK		EA 2
B-33	12	PAOZZ	5820-00-945-4319	1540369	05869	TWINE ASSEMBLY		EA 2
B-33	13	XAOZZ		1541082-002	05869	REEL, ANTENNA		EA 2
B-33	14	XAOZZ		TYPE2OLIVEDRAB7	81349	CORD, NYLON		EA 100
B-33	15	PAPEZ	5310-00-042-9067	MS35337-80	96906	WASHER, LOCK		EA 2
B-33	16	PAPEZ	5310-00-685-3744	MS960C8	81349	WASHER, FLAT		EA 2
B-33	17	PAPEZ		MS25036-49	96906	TERMINAL, LUG		EA 2
B-33	18	PACFF	5820-00-942-0844	MK-7256/PRC-74	05869	FLEXURE, DIPOLE		EA 1
B-33	19	PAPEZ	5820-00-464-0125	1541081	05869	REEL, DIPOLE		EA 1
B-33	20	PAOZZ	5310-00-167-0801	MS960C10	81349	WASHER, FLAT		EA 1
B-33	21	PAOE	5310-00-209-1239	MS35335-60	96906	WASHER, LOCK		EA 1
B-33	22	PAO.Z	5305-00-099-3657	MS51958-61	96906	SCREW, MACHINE		EA 1
B-33	23	PAPEZ	5940-00-879-3763	857	83330	POST, BINDING		EA 2



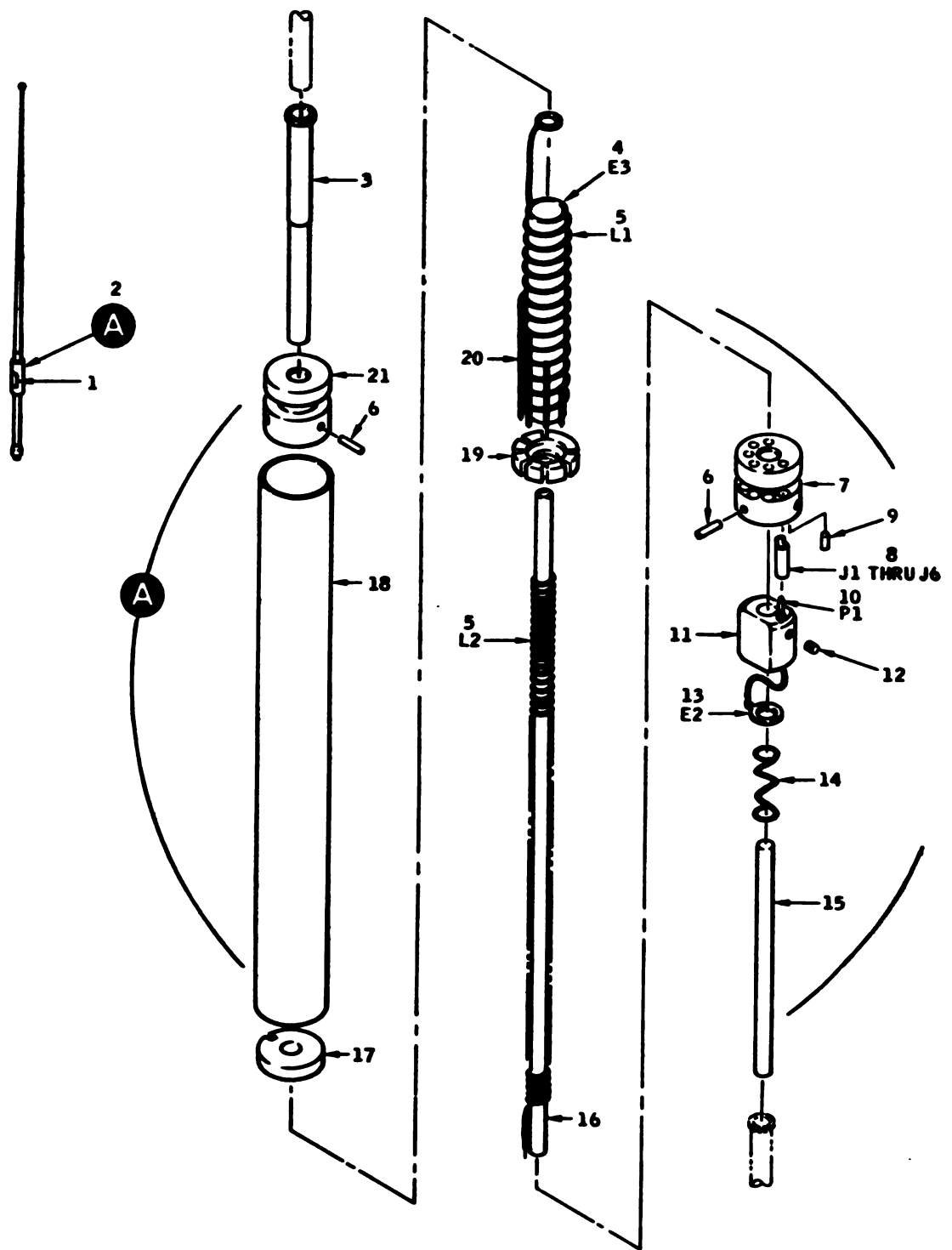
EL6820-000-35P-TM-33

Figure B-33. Antenna kit.

B-108 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
						GROUP: 04 ANTENNA AS-1887A/PRC-74 GROUP: 0401 ANTENNA		
B-34		PACZE	5820-00-935-0032	AS-1887A/PRC-74	05869	ANTENNA	EA	1
B-34	1	EDGEZ		1559161-011	05869	NAMEPLATE	EA	1
B-34	2	ZAPZE		1558388	05869	WIP, ANTENNA ASSEMBLY	EA	1
B-34	3	ZAPZE		1558388-098	05869	END, FEMALE	EA	1
B-34	4	ZAPZE		718625-875	72656	CORR, COIL	EA	1
B-34	5	ZAPZE		1558388-092	05869	COIL	EA	2
B-34	6	ZAPZE		MIL171435	96906	PIN, SPRING	EA	2
B-34	7	ZAPZE		1558388-094	05869	END HOUSING	EA	1
B-34	8	ZAPZE		1558388-095	05869	JACK	EA	6
B-34	9	ZAPZE		MIL171494	96906	PIN, SPRING	EA	1
B-34	10	ZAPZE		462	83330	PLUG, BARBARA	EA	1
B-34	11	ZAPZE		1558388-096	05869	SLEEVE, PLUG MOUNTING	EA	1
B-34	12	ZAPZE		LP57XA62J3	03038	SETSCREW	EA	1
B-34	13	ZAPZE		31252	00779	TERMINAL LUG	EA	1
B-34	14	ZAPZE		1558388-091	05869	SPRING	EA	1
B-34	15	ZAPZE		1558388-099	05869	END, MALE	EA	1
B-34	16	ZAPZE		90503	05649	TUBE, PHEROLIC	EA	1
B-34	17	ZAPZE		1558388-088	05869	SUPPORT	EA	1
B-34	18	ZAPZE		1558388-093	05869	HOUSING	EA	1
B-34	19	ZAPZE		1558388-087	05869	SUPPORT, SLOTTED	EA	1
B-34	20	PNRZE		MIL-1-23053/5	81349	TUBING, FLEXIBLE 0.125ID BLACK	EA	6
B-34	21	ZAPZE		1558388-090	05869	END, HOUSING	EA	1

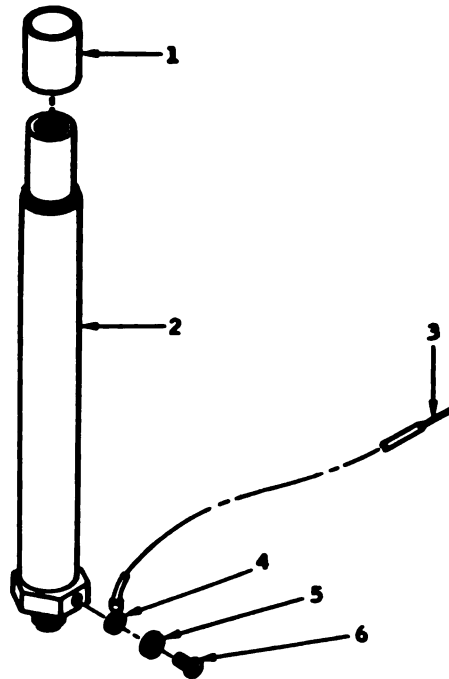


EL5820-500-35P-TM-34

Figure B-34. Antenna AS-1887A/PRC-74.

B-110 Change 2

(8) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) PSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
						GROUP: 05 BASE ANTENNA SUPPORT AB-955/PRC-74 GROUP: 0501 BASE, ANTENNA SUPPORT		
B-35		PAPER	5820-00-942-0500	AB-955/PRC-74	05869	BASE, ANTENNA W/P	EA	1
B-35	1	INDEX		1540911-010	05869	NAMEPLATE	EA	1
B-35	2	INDEX		AB129-FR	82204	NOUW, RESILIENT	EA	1
B-35	3	PAPER	5940-00-606-7013	41656	18342	CONTACT, ELECTRICAL	EA	1
B-35	4	PAPER	5940-00-283-3880	NS25036-6	96906	TERMINAL, LUG	EA	1
B-35	5	PAPER	5310-00-579-0079	NS35333-37	96906	WASHER, LOCK	EA	2
B-35	6	PAPER	5305-00-443-8771	NS35813-25	96906	SCREW, MACHINE	EA	1



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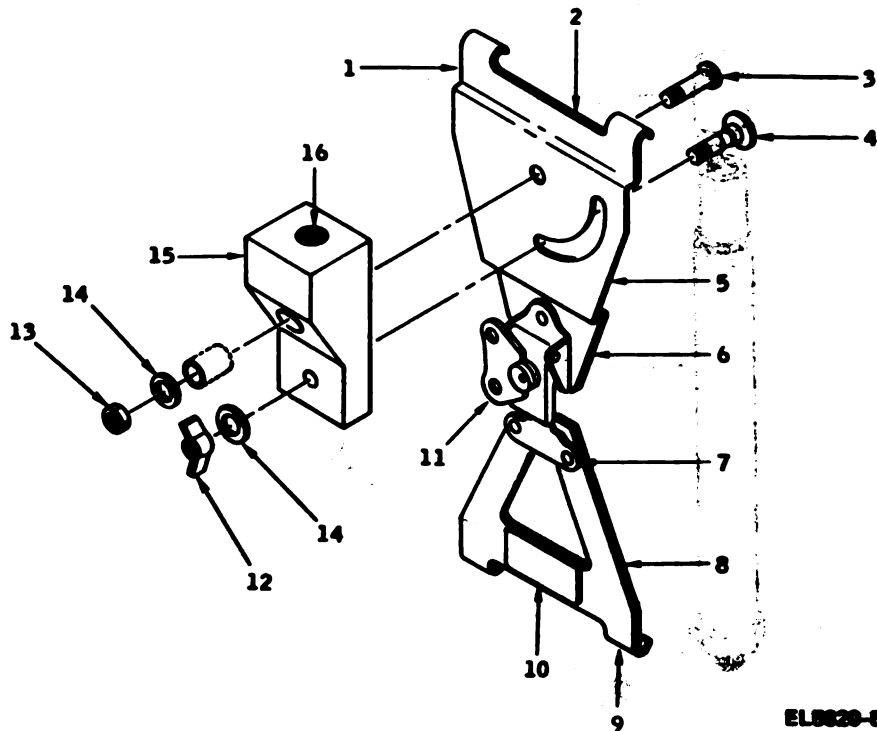
Figure B-35. Base, Antenna Support AB-955/PRC-74.

Change 2

B-111

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
						GROUP: 0601 MOUNTING MT-3613/PRC-74		
0-36		PACZZ	5820-08-942-8818	MT-3613/PRC-74	05069	BRACKET, MOUNTING ANTENNA	EA	1
0-36	1	XAFZZ		1541007	05069	BRACKET	EA	1
0-36	2	XAFZZ		1541007-096	05069	PAD, MOUNTING PLATE	EA	1
0-36	3	XAFZZ		FH1032-14	46304	STUD, SELF-LOCKING	EA	1
0-36	4	XAFZZ		MS35751-2	96906	BOLT, SQUARE NECK	EA	1
0-36	5	XAFZZ		1541007-099	05069	PLATE, MOUNTING	EA	1
0-36	6	XAFZZ		1541007-094	05069	PAD, LOCKING PLATE	EA	1
0-36	7	XAFZZ		MS20427F4-4	96906	RIVET, SOLID	EA	6
0-36	8	XAFZZ		1541007-095	05069	PAD, LOCKING PLATE	EA	1
0-36	9	XAFZZ		1541007-098	05069	PLATE, LOCKING	EA	1
0-36	10	XAFZZ		1540911-009	05069	NAMEPLATE	EA	1
0-36	11	XAFZZ		NO-3	82240	HINGE, LOCK	EA	1
0-36	12	XAFZZ		MS35425-37	96906	NUT, PLAIN WING	EA	1
0-36	13	XAFZZ		MS679A3	80203	NUT, SELF-LOCKING	EA	1
0-36	14	XAFZZ		MS27183-9	96906	WASHER, PLAT	EA	2
0-36	15	XAFZZ		1541007-097	05069	BASE, ANTENNA	EA	1
0-36	16	XAFZZ		MS21208F6-15	96906	INSERT, SCREW THREADED	EA	1

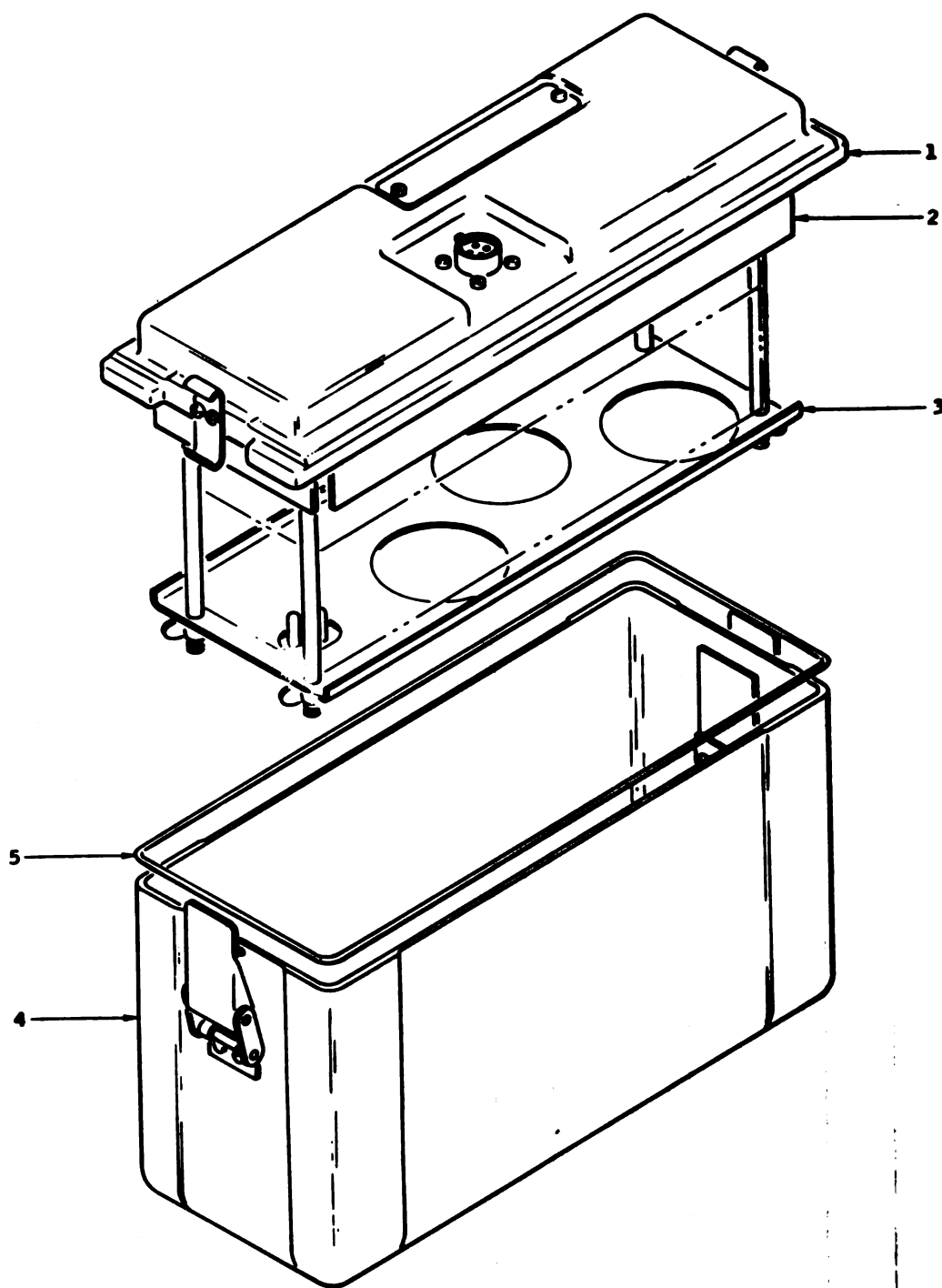


EL5820-500-35P-TM-36

Figure B-36. Mounting MT-3613/PRC-74.

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
						GROUP: 07 BATTERY BOX CY-6314/PRC-74 AND CY-6314A/PRC-74			
						GROUP: 0701 BATTERY BOX			
B-37		FD00	6135-00-156-3934	1550169-101	05869	BATTERY CASE ASSEMBLY	CFY	EA	1
B-37		FD00	6135-00-156-3934	CY6314APRC74	00058	BATTERY CASE ASSEMBLY	ASY	EA	1
B-37	1	AM00		1559611	05869	BASE ASSEMBLY, BATTERY CASE	CFY	EA	1
B-37	1	AM00		1596205	05869	BASE ASSEMBLY, BATTERY CASE	ASY	EA	1
B-37	2	PA00	6140-00-138-5617	1558220-002	05869	RETAINER, BATTERY	CFY	EA	1
B-37	3	PA00	6140-00-138-5615	1558220-001	05869	RETAINER, BATTERY	CFY	EA	1
B-37	4	XH00	5820-00-130-9324	1558221	05869	COVER ASSEMBLY, BATTERY	CFY	EA	1
B-37	4	XH00		1596421	05869	COVER ASSEMBLY, BATTERY	ASY	EA	1
B-37	5	PA00	5330-00-138-0057	2-270-2267-5	83279	PACKING, PREFORMED		EA	1



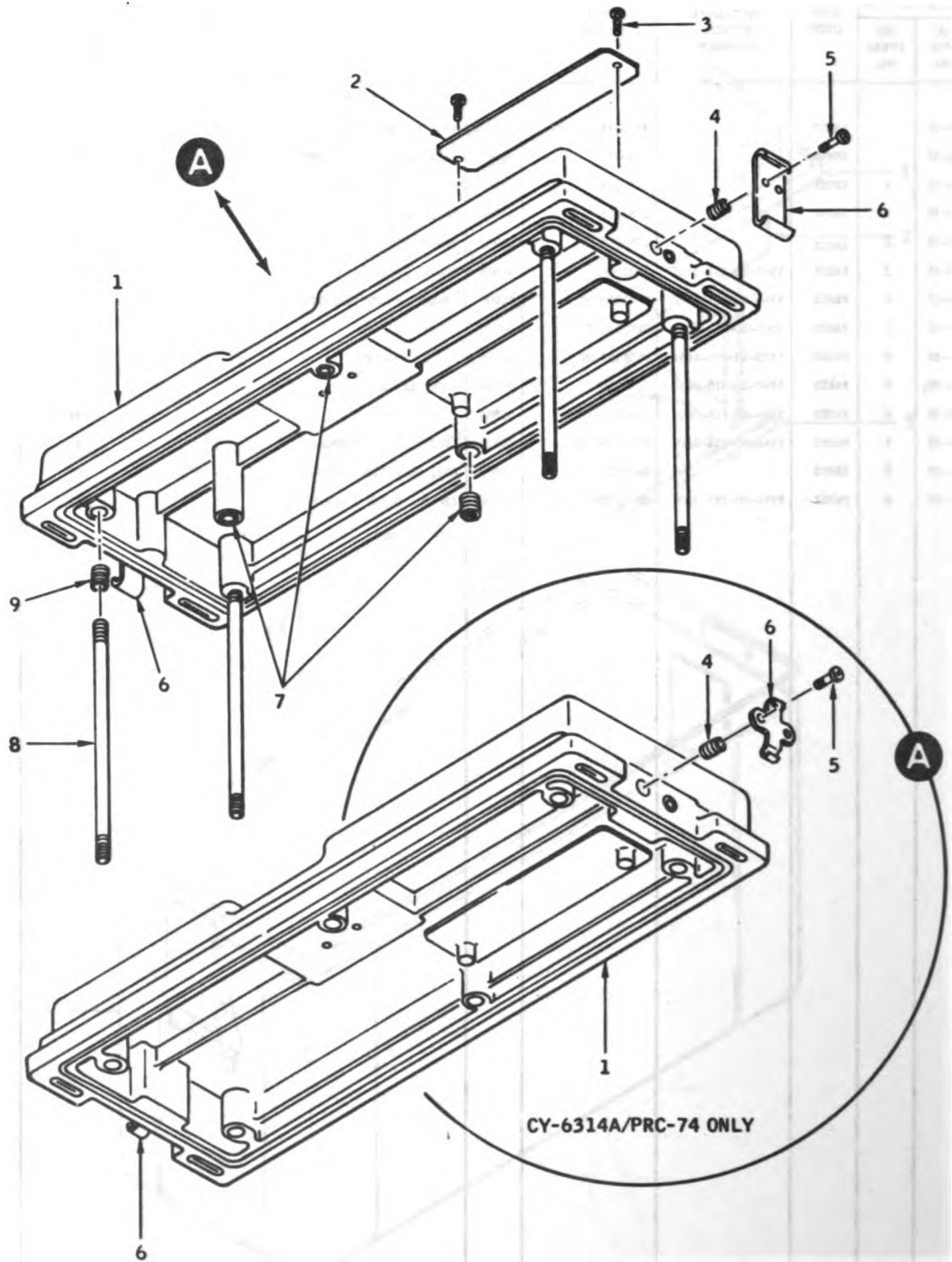
EL5820-500-35P-TM-37

Figure B-37. Battery Box CY-6314/PRC-74 and CY-6314A/PRC-74.

B-114 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
GROUP: 070101 BATTERY BOX BASE ASSEMBLY								
1-38		AKEDD		1559611	05869	BASE ASSEMBLY, BATTERY CASE	CHY	EA 1
1-38		AKEDD		1596205	05869	BASE ASSEMBLY, BATTERY CASE	AST	EA 1
1-38	1	KXDEZ		1559612	05869	BASE, CASTING BATTERY CASE	CHY	EA 1
1-38	1	KXDEZ		1559206	05869	BASE, CASTING BATTERY CASE	AST	EA 1
1-38	2	KXDEZ		1591818	05869	NAMEPLATE, BATTERY BOX	CHY	EA 1
1-38	3	PAHEZ	5305-00-253-5607	NS21318-8	96906	SCREW, DRIVE	CHY	EA 2
1-38	4	PAHEZ	5340-00-815-4930	NS21209C0615	96906	INSERT, SCREW THREADED		EA 4
1-38	5	PAHEZ	5305-00-054-6654	NS1635-06-8	80205	SCREW, MACHINE	CHY	EA 4
1-38	5	PAHEZ	5305-00-054-6652	NS51957-28	96906	SCREW, MACHINE	AST	EA 4
1-38	6	PAHEZ	5340-00-878-6197	1558219	05869	HOOK, LATCH	CHY	EA 2
1-38	6	PAHEZ	5340-00-716-6623	1596422	05869	HOOK, LATCH	AST	EA 2
1-38	7	PAHEZ	5340-00-558-8826	NS21209C0620	96906	INSERT, SCREW THREADED	CHY	EA 3
1-38	8	KXDEZ		1558218	05869	ROD, RETAINING, BATTERY	CHY	EA 4
1-38	9	PAHEZ	5340-00-597-3302	NS2120871-15	96906	INSERT, SCREW THREADED	CHY	EA 4



EL5820-890-35P-TM-38

Figure B-38. Base assembly, battery case.

B-116 Change 2

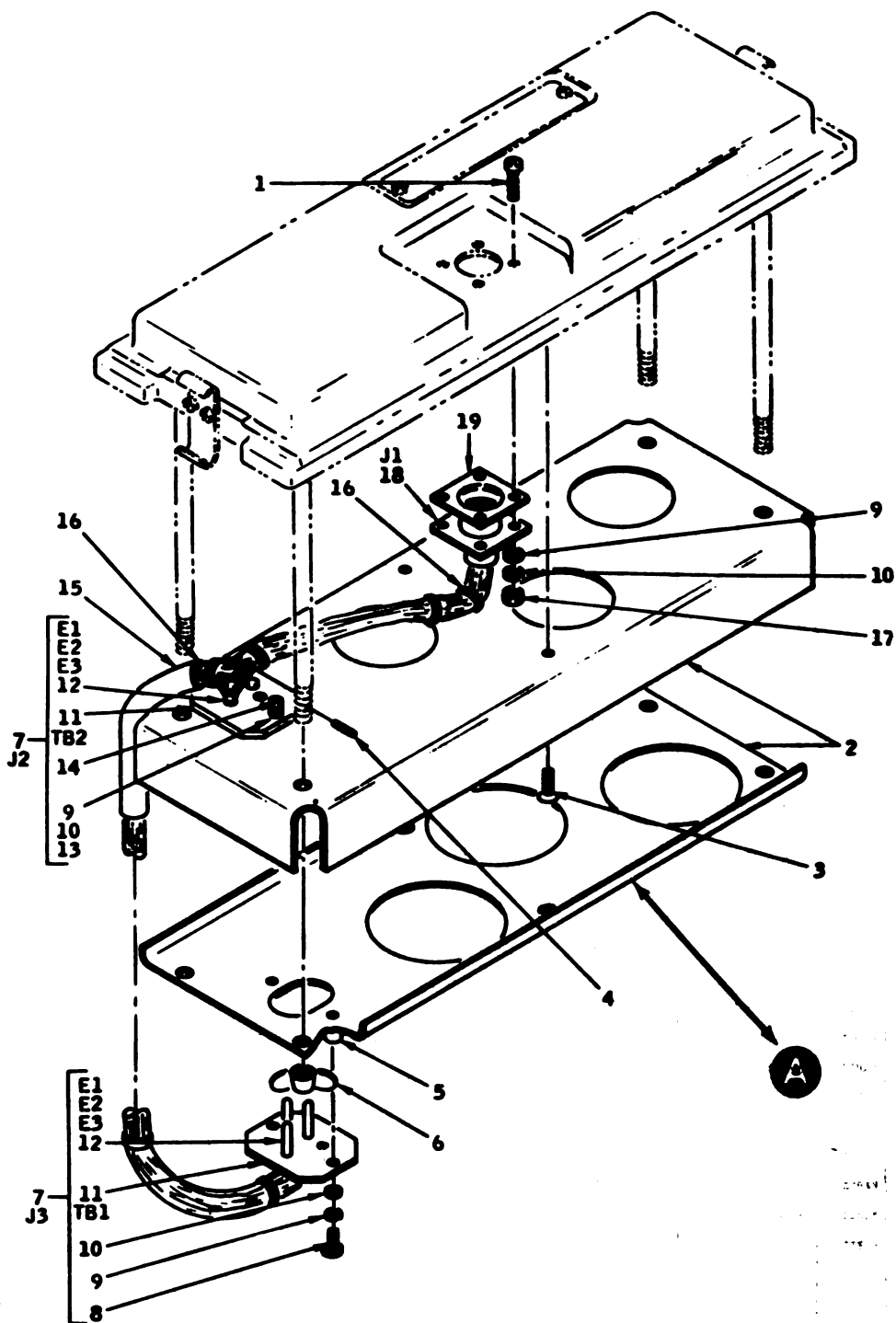
SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
GROUP: 070102 VERY HEAVY HMV AND CABLE ASBY								
B-39	1	PANEL		AS260-0AY-8P	08714	SCREW, MACHINE	EA	4
B-39	2	PANEL	6140-00-138-5616	1558220-099	05869	RETAINER	EA	2
B-39	3	PANEL	5305-00-066-7326	MS24693C24	96906	SCREW, MACHINE	CY	4
B-39	4	PANEL	5315-00-847-3735	MS16562-190	96906	FIN, SPRING	CY	4
B-39	5	PANEL	5310-00-999-8644	808440-20	46384	NUT, STAND-OFF	CY	2
B-39	6	PANEL	5310-00-720-8549	MS35426-13	96906	NUT, FLAIN WING	CY	4
B-39	7	PANEL	5935-00-878-7485	1560279	05869	CONNECTOR, RCPT, ELECTRIC	CY	2
B-39	8	PANEL	5305-00-590-5001	MS35233-12	96906	SCREW, MACHINE	CY	2
B-39	9	PANEL	5310-00-734-5661	MS35337-78	96906	WASHER, LOCK	CY	8
B-39	10	PANEL	5310-00-632-6721	AN960C4	81349	WASHER, FLAT	CY	8
B-39	11	PANEL	6135-00-138-8990	1560279-099	05869	BASE, EPOXY GLASS SHEET	CY	2
B-39	12	PANEL	5820-00-226-2683	R125-8	70892	CONTACT	CY	6
B-39	13	PANEL	5305-00-543-2767	MS35233-18	96906	SCREW, MACHINE	CY	2
B-39	14	PANEL	5310-00-978-0133	808440-4	46384	NUT, STAND-OFF	CY	2
B-39	15	PANEL		760893-005	05869	TUBING, FLEX, HEAT SHRINKABLE	CY	1
B-39	16	INDEX	5975-00-713-5091	MS18034-4-SH	96906	STRAP, CABLE	CY	6
B-39	17	PANEL	5310-00-208-3786	MS671C4	80205	NUT, FLAIN, HEXAGON	CY	4
B-39	17	PANEL	5310-00-988-5000	MS21045C04	96906	NUT, SELF-LOCKING	AST	4
B-39	18	PANEL	5935-00-490-5091	44007-70	11139	CONNECTOR, RCPT, ELECTRIC	EA	2
B-39	19	PANEL	5330-00-601-5468	10-36675-10	77820	GASKET, ELEC CONN	EA	1
B-39	20	INDEX		1596517	05869	PLATE, ADAPTER	AST	1
B-39	21	PANEL	5310-00-781-9493	MS21075L06	96906	WAFER	AST	4
B-39	22	INDEX		1596517-099	05869	PLATE	AST	1
B-39	23	PANEL	5320-00-584-0672	MS20426AD3-6	96906	RIVET, SOLID	AST	8
B-39	24	PANEL	5305-00-958-2918	MS24693C26	96906	SCREW, MACHINE	AST	4
B-39	25	PANEL	5305-00-125-9986	MS21092-06002	96906	BOLT, MACHINE	AST	2
B-39	26	INDEX		1596208	05869	HOUSING ASBY, BATTERY	AST	1
B-39	27	INDEX		1596209-002	05869	HOUSING, BATTERY	AST	1
B-39	28	INDEX		1596209-001	05869	HOUSING, BATTERY	AST	1
B-39	29	PANEL	5320-00-680-2985	MS20426AD4-4	96906	RIVET, SOLID	AST	10
B-39	30	PANEL	5340-00-558-3003	MS20001P8-200	96906	HINGE	AST	1
B-39	31	PANEL	4820-00-499-9704	770-RP	98021	VALVE, PRESSURE	AST	1
B-39	32	PANEL	5340-00-813-6475	158348P1R1R	14608	HOOK, LATCH	AST	1
B-39	33	PANEL	5340-00-619-0214	8CB83314-2	98003	LATCH, THERM	AST	1
B-39	34	INDEX		1596210	05869	DIVIDER, BATTERY	AST	1
B-39	35	PANEL	5995-00-476-9511	390032-12	73293	CABLE ASBY, SPECIAL PURPOSE	AST	1
B-39	36	PANEL	5310-00-723-9676	MS620C4L	80205	WASHER, FLAT	AST	2
B-39	37	PANEL	5305-00-115-6128	MS21097-04002	96906	BOLT, MACHINE	AST	4
B-39	38	PANEL		1596207	05869	CLAMP, CABLE	AST	1

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MSA-FH 282-24 6196
1 NOV 54

Change 2 B-117



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Figure B-39. Battery retainer hardware and cable assembly
(Sheet 1 of 3).

B-118 Change 2

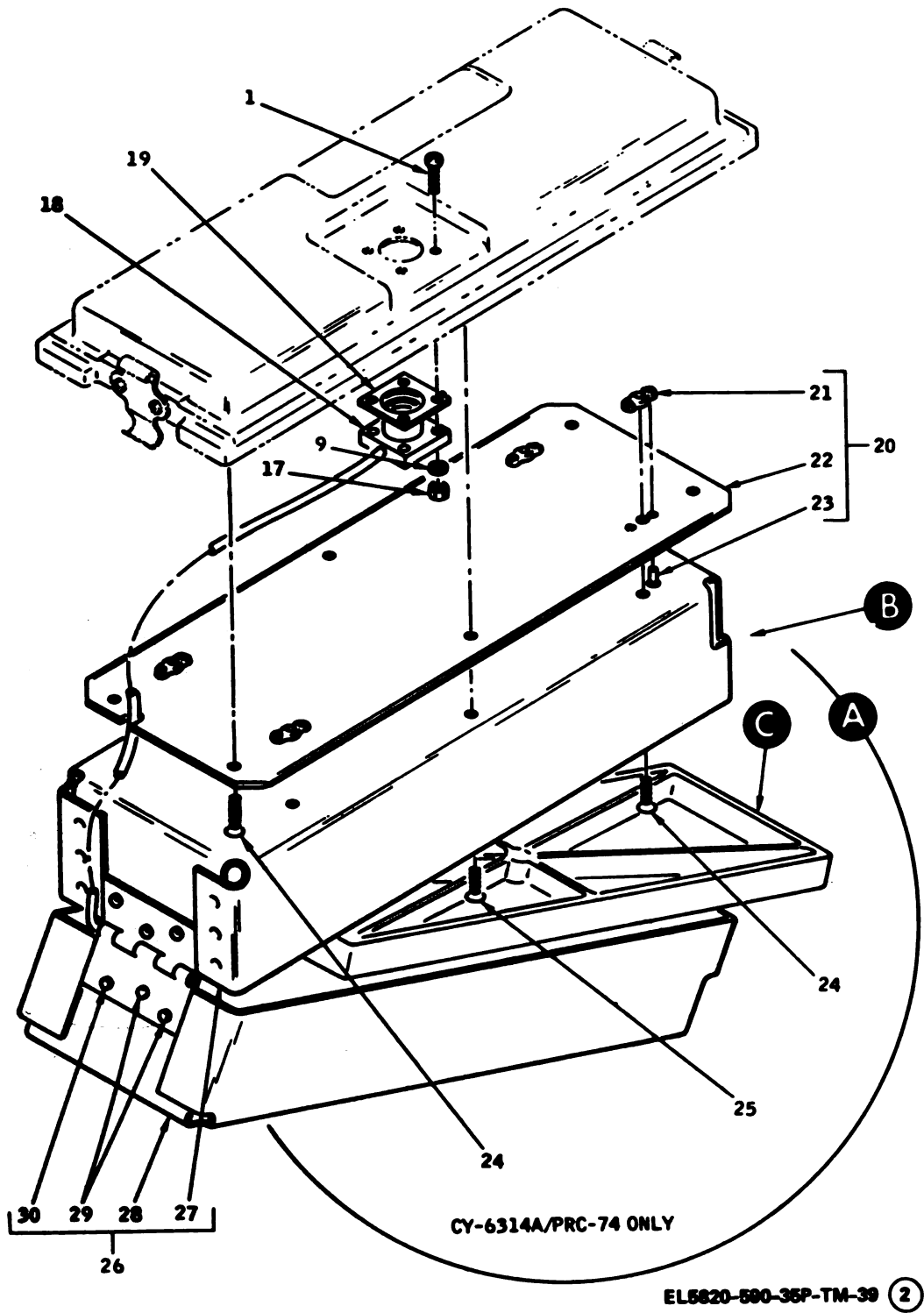
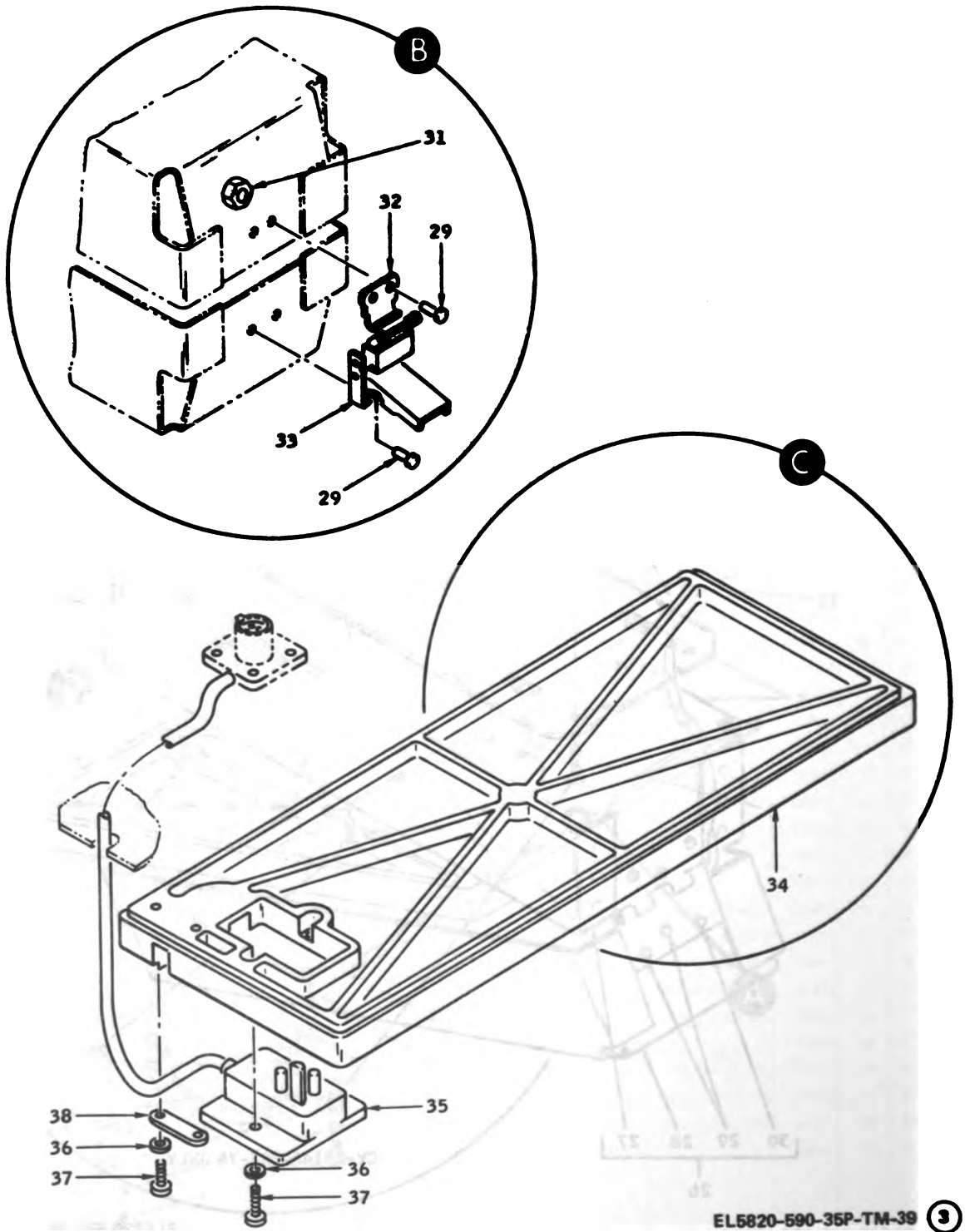


Figure B-39. Battery retainer hardware and cable assembly
(Sheet 2 of 3).

EL5820-500-35P-TM-39 (2)

Change 2 B-119



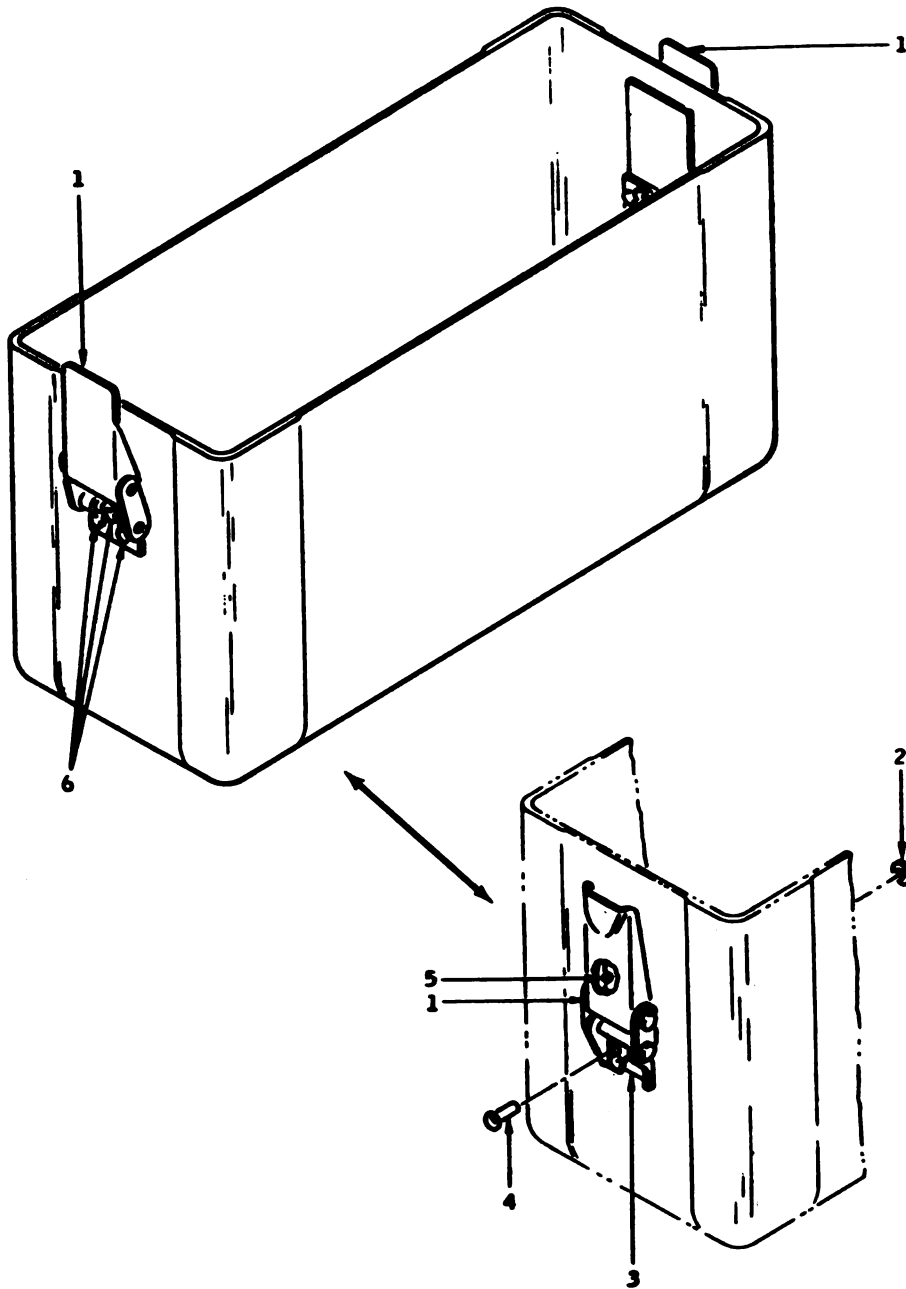
EL5820-690-35P-TM-39

Figure B-39. Battery retainer hardware and cable assembly
(Sheet 3 of 3).

B-120 Change 2

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
GROUP: 070103 BATTERY COVER ASSEMBLY									
B-40		XBNZZ	3020-00-130-9324	1550221	05069	COVER ASSEMBLY, BATTERY	CNY	EA	1
B-40		XBNZZ		1596421	05069	COVER ASSEMBLY, BATTERY	ASY	EA	1
B-40	1	PANZZ	5340-00-137-3239	1590626	05069	LATCH, THUMB	CNY	EA	2
B-40	1	PANZZ	5340-00-137-3282	51L83-1-1AA	71286	LATCH, ADJ TENSION	ASY	EA	2
B-40	2	PANZZ	5310-00-632-6721	AN960C6	81349	WASHER, PLAT	ASY	EA	2
B-40	3	PAPZZ	5365-00-338-5168	1602329	05069	SPACER	ASY	EA	2
B-40	4	PANZZ	5320-00-754-0022	MS20478AD4-5	96906	RIVET, SOLID	ASY	EA	4
B-40	5	PANZZ	5315-00-934-8536	MS171432	96906	PIN, SPRING	ASY	EA	2
B-40	6	PANZZ	5320-00-117-6817	MS20478AD3-6	96906	RIVET, SOLID	CNY	EA	6



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Figure B-40. Battery cover assembly.

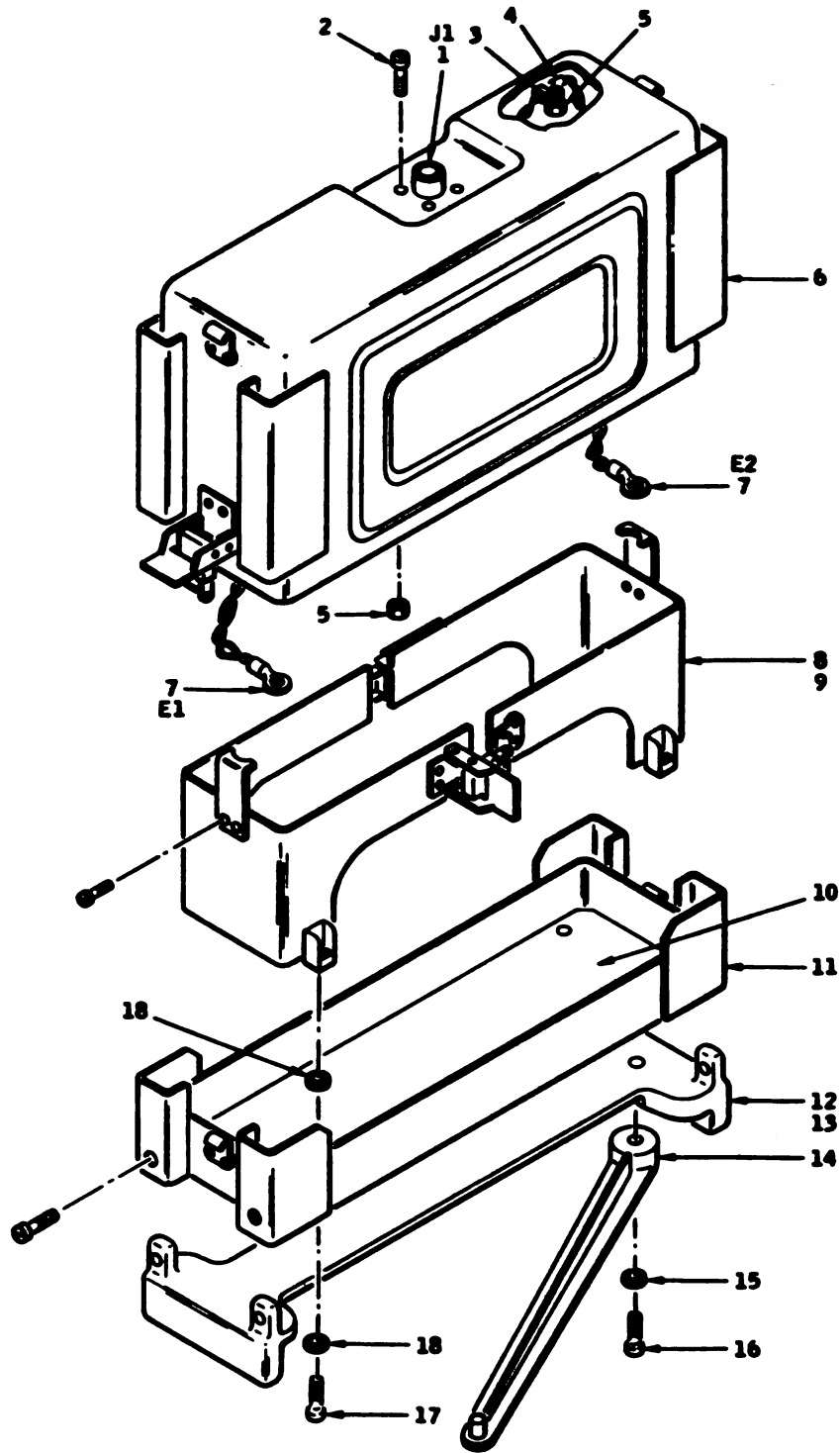
B-122 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
						GROUP: 08 BATTERY BOX CY-6121/PRC-74 GROUP: 0801 BATTERY BOX		
	B-41 1	PARZZ		44007-7P	11139	CONNECTOR, RCPT, ELEC	CFY	EA 1
	B-41 2	PARZZ	5305-00-543-2766	MS35233-16	96906	SCREW, MACHINE	CFY	EA 4
	B-41 3	PARZZ	5340-00-559-6128	MS21919-02	96906	CLAMP, CABLE	CFY	EA 2
	B-41 4	PARZZ	5820-00-089-9195	1541045	05869	CORD, STRAIN RELIEF	CFY	EA 2
	B-41 5	PARZZ	5310-00-208-9261	79W7340	72962	NUT, SELF-LOCKING	CFY	EA 6
	B-41 6	ABORD		1541044	05869	CASE, CARRIER BATTERY	CFY	EA 1
	B-41 7	PARZZ	5940-00-644-8713	MS25036-8	96906	TERMINAL, LUG	CFY	EA 2
	B-41 8	ABORD		1541046	05869	COVER AND CLAMP ASSY	CFY	EA 1
	B-41 9	PARZZ		1541049	05869	CLAMP, HOLD DOWN	CFY	EA 2
	B-41 10	XKDEZ		1541048	05869	PAD, SHOCK MFG	CFY	EA 1
R	B-41 11	XKDEZ	6140-00-221-1564	1541047	05869	BASE, CARRIER	CFY	EA 1
	B-41 12	ABORD		1541504	05869	SUPPORT, BATTERY CASE	CFY	EA 1
R	B-41 13	XKDEZ	5820-00-130-9312	1541504-098	05869	BASE	CFY	EA 1
	B-41 14	PARZZ	6140-00-943-5864	1541504-099	05869	FOOT	CFY	EA 2
R	B-41 15	PARZZ	5310-00-935-9086	3544-14-02	30323	WASHER	CFY	EA 2
R	B-41 16	PARZZ	5305-00-841-2681	042-19	00328	SCREW	CFY	EA 1
	B-41 17	PARZZ	5305-00-068-6534	MS35233-31	96906	SCREW, MACHINE	CFY	EA 4
	B-41 18	PARZZ	5310-00-773-7624	MS8620C6	80205	WASHER, FLAT	CFY	EA 8

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Figure B-41. Battery Box CY-6121/PRC-74.

B-124 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
						GROUP: 09 POWER SUPPLY PP-4514/PRC-74 AND PP-4514A/PRC-74 GROUP: 0901 POWER SUPPLY			
B-42	1	PAHZZ	5340-00-606-1906	3-8-3	95987	CLAMP, LOOP	ASY	EA	2
B-42	2	XNHZZ		1591819	05869	NAMEPLATE	CFY	EA	1
B-42	2	XNHZZ		1598066	05869	NAMEPLATE	ASY	EA	1
B-42	3	PANZZ	5320-00-637-5422	MS20470A3-4	96906	RIVET, SOLID	CFY	EA	2
B-42	3	PANZZ	5320-00-117-6814	MS20470AD3-3	96906	RIVET, SOLID	ASY	EA	2
B-42	4	PAHZZ	5950-00-944-9884	TR12273	78790	XPMR-PWR STEP DOWN	CFY	EA	1
B-42	4	PAHZZ	5150-00-036-9035	E30108	80008	XPMR-PWR STEP DOWN	ASY	EA	1
B-42	5	XNHZZ		1592625	05869	BRACKET, ANGLE	CFY	EA	1
B-42	6	PAHZZ		1592663	05869	SPACER, PLATE	CFY	EA	1
B-42	7	ARMED		1541128-101	05869	PWR SUPPLY	CFY	EA	1
B-42	7	ARMED		1541128-102	05869	PWR SUPPLY	ASY	EA	1
B-42	8	ARMED		1541125-101	05869	CHARGER, BATTERY	CFY	EA	1
B-42	8	ARMED		1541125-102	05869	CHARGER, BATTERY	ASY	EA	1
B-42	9	ARMED		1541122	05869	HOUSING, PWR SUPPLY	CFY	EA	1
B-42	9	ARMED		1598064	05869	HOUSING, PWR SUPPLY	ASY	EA	1
B-42	10	PANZZ	5310-00-208-3786	MSB671C4	80205	NUT, FLAT, HEXAGON	CFY	EA	12
B-42	10	PANZZ	5310-00-813-3232	MSB679C04M	80205	NUT, SELF-LOCK, HEXAGON	ASY	EA	12
B-42	11	PANZZ	5310-00-632-6721	AN960C4	81349	WASHER, FLAT		EA	16
B-42	12	PANZZ	5310-00-550-3715	MS35333-70	96906	WASHER, LOCK	CFY	EA	12
B-42	13	PANZZ	5305-00-515-7219	MS45233-17	96906	SCREW, MACHINE		EA	12
B-42	14	PANZZ	5935-00-729-8478	MS102R22-5P	96906	CONNECTOR, RCPT, ELEC		EA	1
B-42	15	PANZZ	5935-00-943-6910	7-30-7P	11139	CONNECTOR, RCPT, ELEC		EA	1
B-42	16	PANZZ	5305-00-068-6532	MS45233-15	96906	SCREW, MACHINE		EA	4
B-42	17	PANZZ	5935-00-725-1345	MS102R12838	96906	CONNECTOR, RCPT, ELEC		EA	1
B-42	18	PANZZ	5305-00-541-3168	MS35233-46	96906	SCREW, MACHINE		EA	13
B-42	19	PAHZZ	5940-00-660-3631	MS25036-50	96906	TERMINAL, LUG		EA	4
B-42	20	PANZZ	5310-00-635-3744	AK-6408	81349	WASHER, FLAT	CFY	EA	10
B-42	20	PANZZ	5310-00-558-6207	AN960C8L	81349	WASHER, FLAT	ASY	EA	18
B-42	21	PANZZ	5910-00-577-1348	CA37KPM103	81349	CAPACITOR, FID PAPER DIEL		EA	8
B-42	22	PANZZ	5940-00-557-1629	MS25036-49	96906	TERMINAL, LUG	CFY	EA	1
B-42	23	PANZZ	5310-00-837-1981	MSB671C8	80205	NUT, FLAT, HEXAGON	CFY	EA	9
B-42	23	PANZZ	5310-00-813-3233	MSB679C08M	80205	NUT, SELF-LOCK, HEXAGON	ASY	EA	9
B-42	24	PANZZ	5310-00-543-2739	MS35333-72	96906	WASHER, LOCK		EA	10
B-42	25	PANZZ	5940-00-557-1627	MS25036-53	96906	TERMINAL, LUG		EA	4
B-42	26	PANZZ	5961-00-811-5799	JAN1M1202	81349	SEMICONDUCTOR DEVICE, DIODE	CFY	EA	4
B-42	26	PANZZ	5961-00-935-0138	JAN1M1208A	81349	SEMICONDUCTOR DEVICE, DIODE	ASY	EA	4
B-42	27	PANZZ	5935-00-946-0079	DPXAF13-338	71468	CONNECTOR, RCPT, ELEC		EA	1

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY IBC OR UNIT	
(A) FIG NO.	(B) ITEM NO.									
R	B-42	28	PAHZZ	5310-00-208-9261	79MTM0	72962	NUT, SELF-LKG	CNY	EA	12
	B-42	28	PAHZZ	5310-00-939-0849	MS21083C04	96906	NUT, SELF-LKG HEXAGON	ASY	EA	12
	B-42	29	PAHZZ	5935-00-945-6384	DPXAF26-335	71468	CONNECTOR, RCPT ELEC		EA	1
	B-42	30	PAHZZ	5325-00-202-0629	2-295	94222	RECEPTACLE, TURNLOCK		EA	2
	B-42	31	PAHZZ	5310-00-616-3555	MS35333-71	96906	WASHER, LOCK	CNY	EA	2
R	B-42	32	PAHZZ	5310-00-616-8660	NAS671C6	80205	NUT, PLAIN, HEXAGON	CNY	EA	2
	B-42	32	PAHZZ	5310-00-263-2862	MS21045C3	96906	NUT, SELF-LKG, HEXAGON	ASY	EA	2
	B-42	33	XBMZZ		1541123	05869	HOUSING, UPPER	CNY	EA	1
	B-42	34	ANWPH		1541117	05869	COVER, REAR HOUSING		EA	1
	B-42	35	PAHZZ	5320-00-721-5277	MS20426A2-5	96906	RIVET, SOLID	CNY	EA	12
	B-42	35	PAHZZ	5320-00-117-6939	MS20426AD3-5	96906	RIVET, SOLID	ASY	EA	32
	B-42	36	PAHZZ	5310-00-879-4992	NAS1068C06M	80205	NUT, SELF-LKG	CNY	EA	6
	B-42	36	PAHZZ	5310-00-781-9493	MS21075L06	96906	NUT, SELF-LKG, PLATE	ASY	EA	6
	B-42	37	PAHZZ	5320-00-641-9476	MS20426A6-7	96906	RIVET, SOLID	CNY	EA	4
	B-42	37	PAHZZ	5320-00-117-7287	MS20426AD6-7	96906	RIVET, SOLID	ASY	EA	4
	B-42	38	PAHZZ	5340-00-242-1580	MS20470A6-6	96906	RIVET, SOLID	CNY	EA	6
	B-42	38	PAHZZ	5320-00-754-0992	MS20470AD6-7	96906	RIVET, SOLID	ASY	EA	6
	B-42	39	PAHZZ	5340-00-999-4965	517875-3ANODIC	23667	HANDLE, SPRING LOADED	CNY	EA	2
	B-42	39	PAHZZ	5340-00-334-3220	517875-3	23667	HANDLE, SPRING LOADED	ASY	EA	2
	B-42	40	XBMZZ		1541126-096	05869	BOSS	CNY	EA	4
	B-42	41	PAHZZ	5340-00-370-3985	6259-1	77969	BUMPER, RUBBER	CNY	EA	4
	B-42	42	ANWPH		1541127	05869	HOUSING, REAR	CNY	EA	1
	B-42	43	XBMZZ		1541127-098	05869	BOSS	CNY	EA	2
	B-42	44	XBMZZ		1541127-099	05869	CHASSIS	CNY	EA	1
	B-42	45	ANWPH		1541126	05869	HOUSING, MODULE	CNY	EA	1
	B-42	45	ANWPH		1598065	05869	HOUSING, MODULE	ASY	EA	1
	B-42	46	PAHZZ	5310-00-803-4494	CLS632-3	46384	NUT, CLINCH	CNY	EA	4
	B-42	47	XBMZZ		1541126-097	05869	DIVIDER	CNY	EA	1
R	B-42	48	PAHZZ	5340-00-136-9972	1541122-099	05869	BUMPER, STRIP	CNY	EA	2
	B-42	49	XBMZZ		1541126-098	05869	ANGLE	CNY	EA	1
	B-42	50	PAHZZ	5325-00-276-6007	137	77969	GROMMET, RUBBER		EA	1
R	B-42	51	PAHZZ	5305-00-764-0064	MS35200-29	96906	SCREW, MACHINE	CNY	EA	2
	B-42	51	PAHZZ	5305-00-059-3661	MS51950-65	96906	SCREW, MACHINE	CNY	EA	2
R	B-42	52	PAHZZ	5340-00-137-3343	1541110	05869	BUMPER, NYLON	CNY	EA	2
R	B-42	52	PAHZZ	5340-00-137-3343	1579203	05869	BUMPER, NYLON	ASY	EA	6
C	B-42	53	PAHZZ	5340-00-999-4964	1541111	05869	HOOK, LATCH		EA	2
	B-42	54	PAHZZ	5310-00-816-1879	NAS679C3M	80205	NUT, SELF-LKG HEXAGON	ASY	EA	6
	B-42	55	PAHZZ	5310-00-584-3782	AN960C4L	81349	WASHER, FLAT	ASY	EA	4
	B-42	56	PAHZZ	5310-00-167-0812	AN960C10L	81349	WASHER, FLAT	ASY	EA	10
	B-42	57	PAHZZ	5305-00-059-3664	MS51950-68	96906	SCREW, MACHINE	ASY	EA	2

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-42	58	PAHZZ	5340-00-597-3382	MS21208P1-15	96906	INSERT, SCREW THREADED	ASY	EA	2
B-42	59	PAHZZ	5385-00-989-7435	MS35207-264	96906	SCREW, MACHINE	ASY	EA	2
B-42	60	PAHZZ	5305-00-059-3659	MS51958-63	96906	SCREW, MACHINE	ASY	EA	2
B-42	61	PAHZZ	5340-00-806-7874	MS21209P1-15	96906	INSERT, SCREW THREADED	ASY	EA	2
B-42	62	PAHZZ	5310-00-819-2624	NAS1068C3M	80205	NUT, SELF-LKG PLATE	ASY	EA	8
B-42	63	PAHZZ		MS28257-5	96906	HINGE, CONTINUOUS		EA	1
B-42	64	PAHZZ	5928-9C-284-6797	357009	75915	FUSEHOLDER		EA	1
B-42	65	PAHZZ	5825-00-733-7234	82-32-101-17	56087	RETAINER		EA	2
B-42	66	XBMZZ		1541117-098	05069	LID		EA	1
B-42	67	PAHZZ	5325-00-137-6745	28B180	56007	STUD, TURNLOCK FASTENER		EA	2
B-42	68	PAHZZ	5320-00-619-4028	MS20426AA-5	96906	RIVET, SOLID		EA	2
B-42	69	PAHZZ	5310-00-531-9514	AN960C6	81349	WASHER, FLAT	CNY	EA	6
B-42	69	PAHZZ	5310-00-638-9857	AN960C6L	81349	WASHER, FLAT	ASY	EA	6
B-42	70	PAHZZ	5305-00-068-6533	MS35233-29	96906	SCREW, MACHINE		EA	6
B-42	71	XBMZZ		1541117-099	05069	COVER		EA	1
B-42	72	PAHZZ	5310-90-812-4292	NAS671C10	80205	NUT, PLAIN, HEXAGON	CNY	EA	14
B-42	73	PAHZZ	5310-00-167-0801	AN960C10	81349	WASHER, FLAT	CNY	EA	22
B-42	74	PAHZZ	5970-00-006-9804	A368-23	86928	WASHER, NON METALLIC		EA	4
B-42	75	PAHZZ	5940-00-049-8394	520	79963	TERMINAL, LUG		EA	4
B-42	76	PAHZZ	5970-00-947-1815	A362-29	86928	INSULATOR, BUSHING		EA	4
B-42	77	PAHZZ	5978-00-497-9943	A361-3	86928	INSULATOR, WASHER		EA	4
B-42	78	PAHZZ	5310-00-545-5933	MS35333-73	96906	WASHER, LOCK	CNY	EA	14
B-42	79	PAHZZ	5310-00-582-5677	MS15795-816	96906	WASHER, FLAT	ASY	EA	4
B-42	80	PAHZZ	5310-00-982-4988	MS21045C4	96906	NUT, SELF-LKG, HEXAGON	ASY	EA	4
B-42	81	PAHZZ	5305-00-993-1848	MS35207-265	96906	SCREW, MACHINE	CNY	EA	8
B-42	82	PAHZZ	5380-00-151-1426	ANA-6A	81349	BOLT, MACHINE	ASY	EA	4

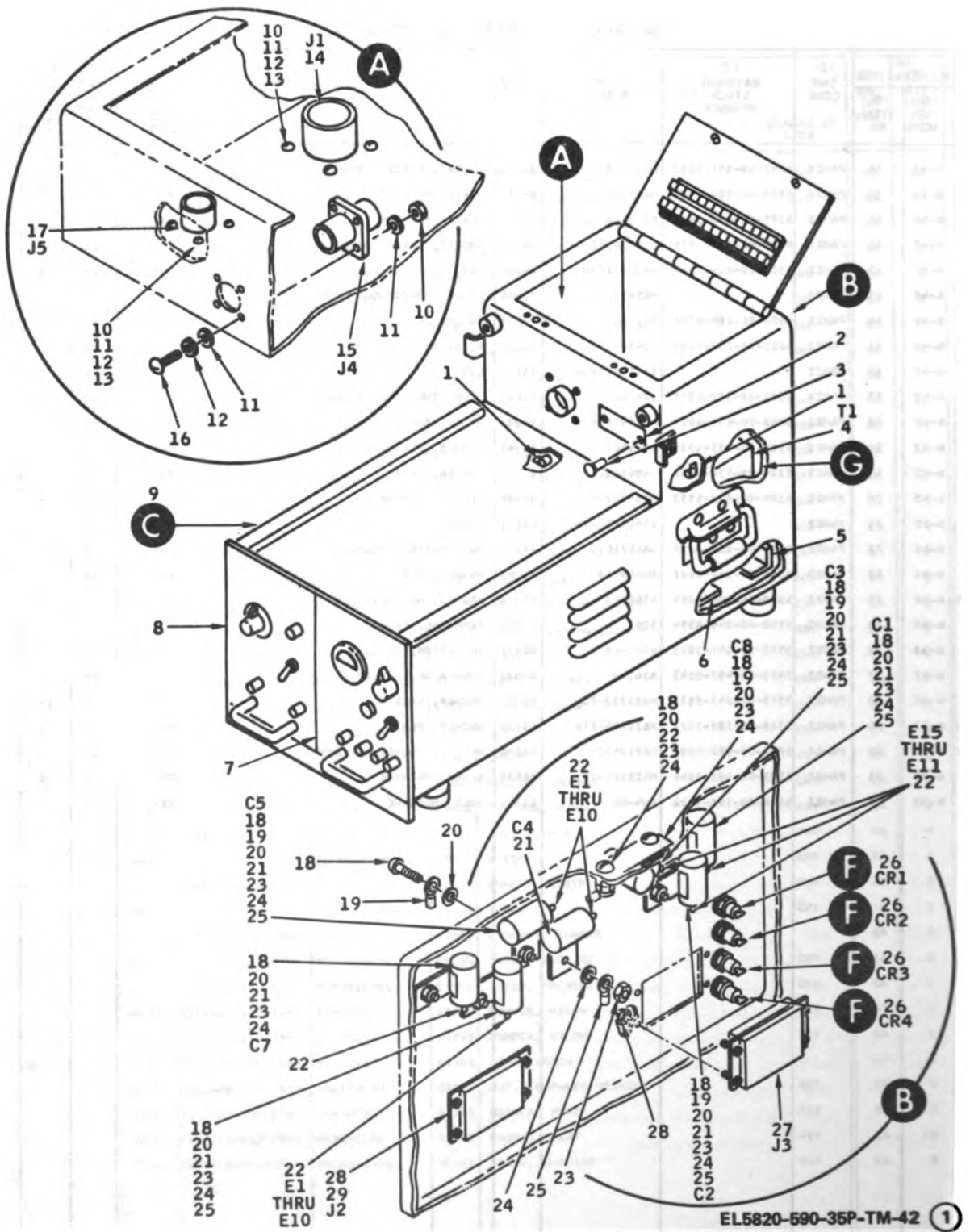
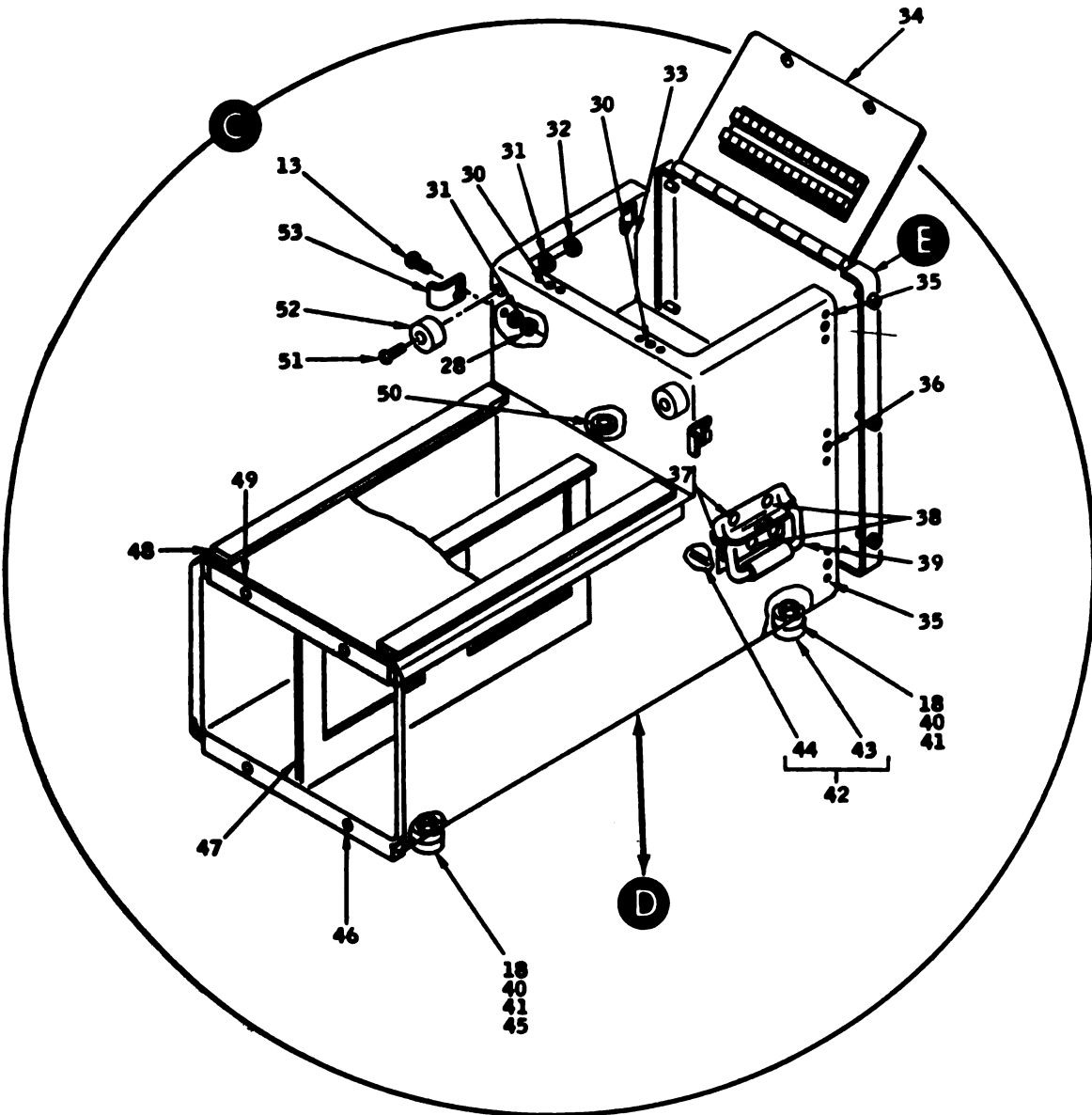


Figure B-42. Power Supply PP-4514/PRC-74 and PP-4514A/PRC-74
(Sheet 1 of 4).

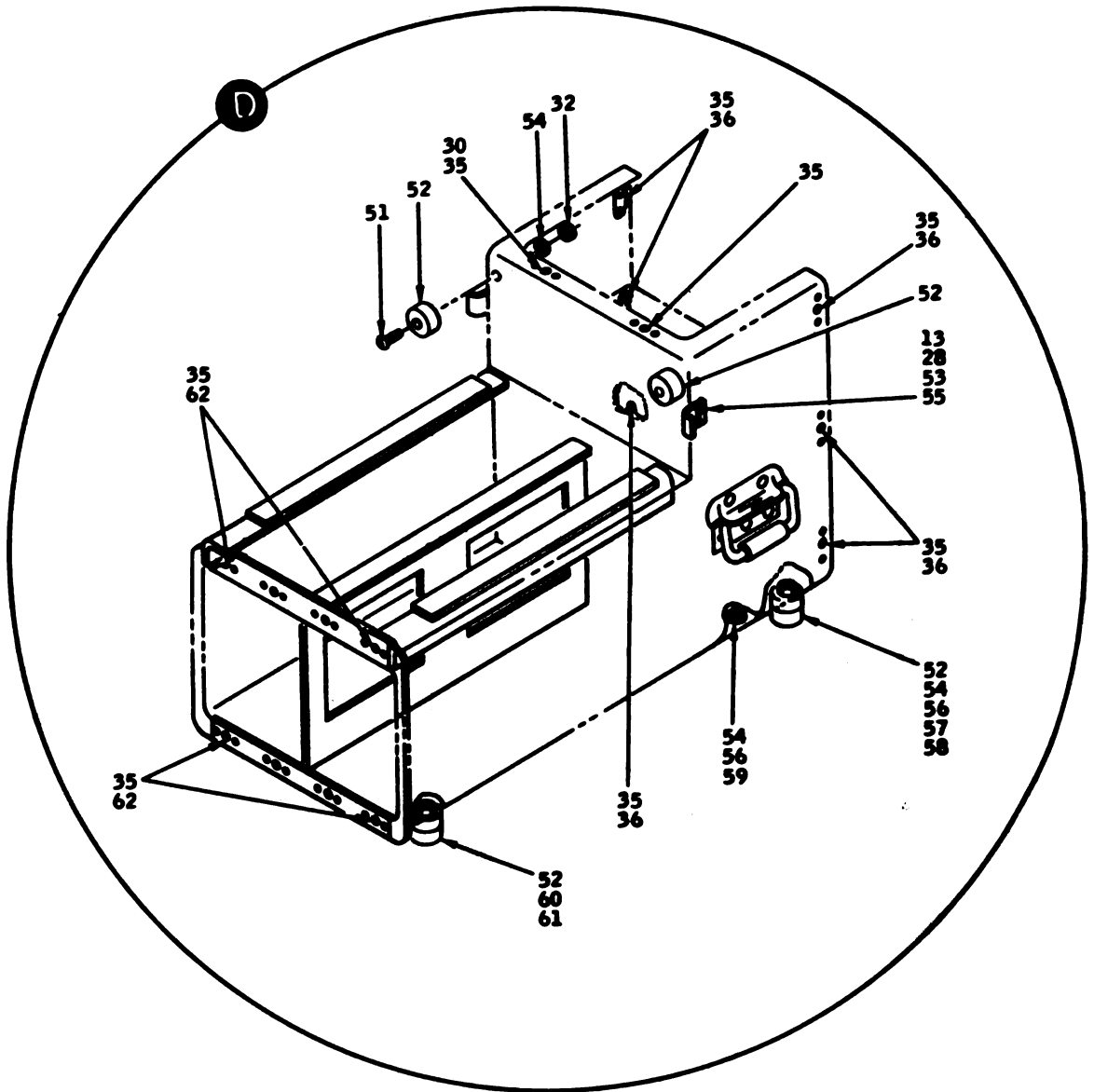
B-128 Change 2



EL5820-680-35P-TM-42 (2)

Figure B-42. Power Supply PP-4514/PRC-74 and PP-4514A/PRC-74
(Sheet 2 of 4).

Change 2 B-128



EL6820-690-36P-TM-42 (3)

Figure B-42. Power Supply PP-4514/PRC-74 and PP-4514A/PRC-74
(Sheet 3 of 4).

B-130 Change 2

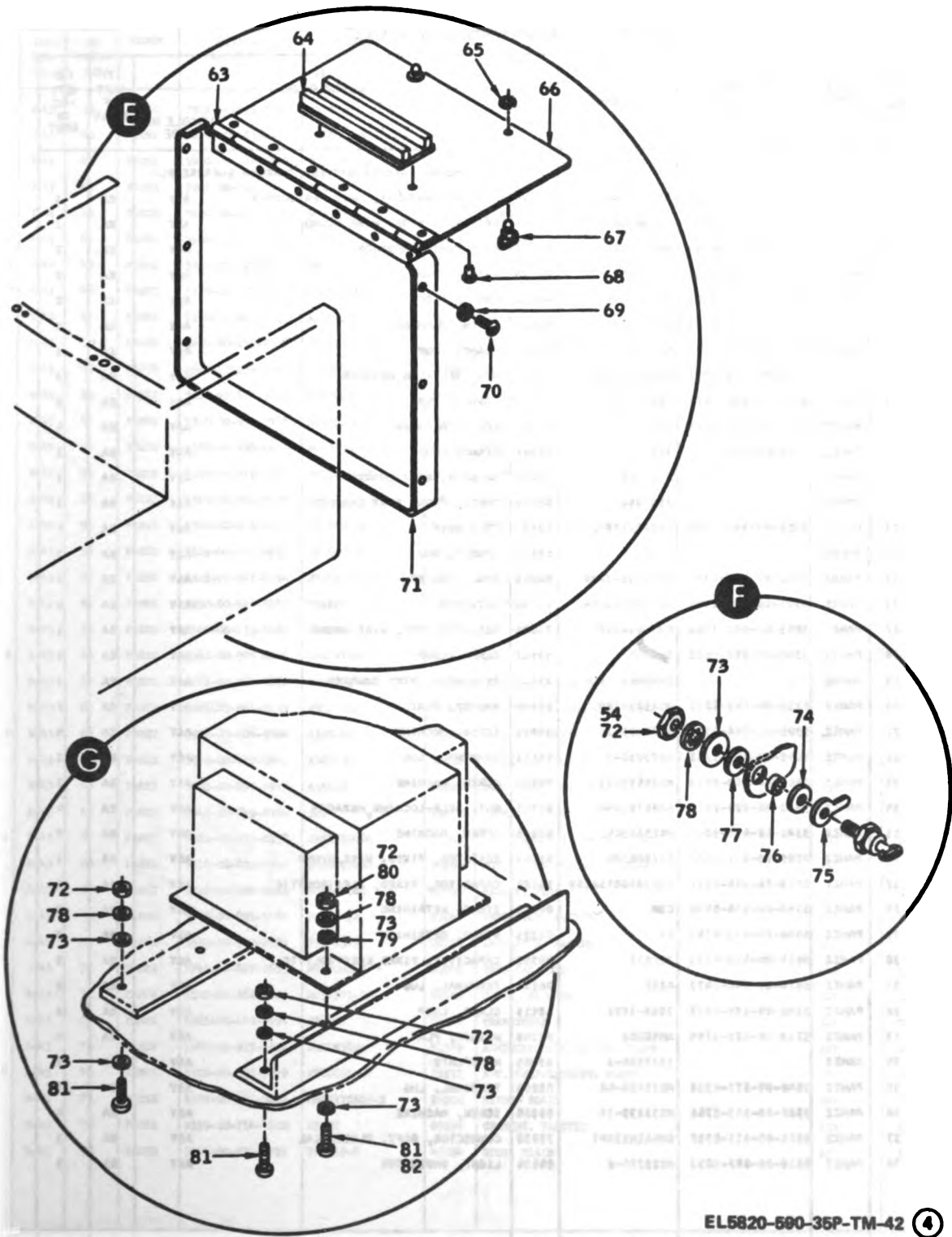


Figure B-42. Power Supply PP-4514/PRC-74 and PP-4514A/PRC-74
(Sheet 4 of 4).

EL5820-590-35P-TM-42 (4)

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCN	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
						GROUP: 096101 BATTERY CHARGER SUBASSEMBLY			
0-43		ANDND		1541125-102	85069	CHARGER, BATTERY, UNIV PWR SUPPLY	ASY	EA	1
0-43	1	PANZZ	5905-00-078-7275	RE6561000	01349	RESISTOR, FIXED WIRE WOUND	ASY	EA	1
0-43	2	PANZZ	5310-00-012-4294	N46671C2	80205	NUT, PLAIN, HEXAGON	ASY	EA	2
0-43	3	PANZZ	5310-00-043-4780	N46620C2	80205	WASHER, FLAT	ASY	EA	2
0-43	4	PANZZ	5310-00-543-4652	MS35233-69	96906	WASHER, LOCK	ASY	EA	2
0-43	5	PANZZ	5305-00-543-2759	MS35233-4	96906	SCREW, MACHINE	ASY	EA	2
0-43	6	PANZZ	5340-00-205-6135	5-16-3	95907	CLAMP, LOOP	ASY	EA	3
0-43	7	PANZZ	5310-00-013-3233	N46679C00H	80205	NUT, SELF-LKG, HEXAGON	ASY	EA	10
0-43	8	PANZZ	5310-00-000-5970	MS15795-007	96906	WASHER, FLAT	ASY	EA	6
0-43	9	PANZZ	5305-00-079-5033	MS24693C50	96906	SCREW, MACHINE	ASY	EA	4
0-43	10	PANZZ	5340-00-606-1906	3-0-3	95907	CLAMP, LOOP	ASY	EA	1
0-43	11	HEMZZ		1598059	85069	CHASSIS, BTRY CHARGER	ASY	EA	1
0-43	12	HEMZZ		1598060	85069	PANEL, FRONT BTRY CHARGER	ASY	EA	1
0-43	13	PANZZ	5325-00-047-2636	P5202AS1032-6	73197	STUD ASSY	ASY	EA	4
0-43	14	HEMZZ		1820	80145	HANDLE, BOW	ASY	EA	2
0-43	15	PAQZZ	5355-00-579-6390	MS91520-2P20	96906	DIAL, CONTROL	ASY	EA	1
0-43	16	PAQZZ	5305-00-954-2724	N461001C0004	80205	SETScrew	ASY	EA	2
0-43	17	PANZZ	5905-00-001-7369	RW79U1001F	01349	RESISTOR, FXD, WIRE WOUND	ASY	EA	1
0-43	18	PANZZ	5340-00-530-5003	3-0-4	95907	CLAMP, LOOP	ASY	EA	1
0-43	19	ANPND		1598061	85069	REGULATOR, BTRY CHARGER	ASY	EA	1
0-43	20	PANZZ	5310-00-595-6211	MS15795-003	96906	WASHER, FLAT	ASY	EA	7
0-43	21	PANZZ	5305-00-060-6532	MS35233-15	96906	SCREW, MACHINE	ASY	EA	4
0-43	22	PANZZ	5940-00-577-3711	MS25036-3	96906	TERMINAL, LUG	ASY	EA	2
0-43	23	PANZZ	5305-00-709-2010	MS24693C23	96906	SCREW, MACHINE	ASY	EA	2
0-43	24	PANZZ	5310-00-020-7014	N46679C04H	80205	NUT, SELF-LOCKING, HEXAGON	ASY	EA	4
0-43	25	PANZZ	5305-00-056-9961	MS24693C4	96906	SCREW, MACHINE	ASY	EA	2
0-43	26	PANZZ	5905-00-051-5172	RE700R200	01349	RESISTOR, FIXED, WIRE WOUND	ASY	EA	1
0-43	27	PANZZ	5910-00-999-0507	J203026025AC6B	36209	CAPACITOR, FIXED, ELECTROLYTIC	ASY	EA	1
0-43	28	PANZZ	5340-00-946-9440	C3H	06229	STRAP, RETAINING	ASY	EA	2
0-43	29	PANZZ	5940-00-473-5595	H5	06229	STRAP, RETAINING	ASY	EA	2
0-43	30	PANZZ	5910-00-999-4172	71C671	99392	CAPACITOR, FIXED, ELECTROLYTIC	ASY	EA	1
0-43	31	PANZZ	5970-00-046-7471	A167	06020	TERMINAL, LUG	ASY	EA	2
0-43	32	PANZZ	5340-00-114-5632	1065-1002	10015	CLAMP, LOOP	ASY	EA	2
0-43	33	PANZZ	5310-00-603-3744	AN960C8	01349	WASHER, FLAT	ASY	EA	4
0-43	34	HEMZZ		1598064-1	85069	NAMEPLATE	ASY	EA	1
0-43	35	PANZZ	5940-00-357-4390	MS25036-48	96906	TERMINAL, LUG	ASY	EA	1
0-43	36	PANZZ	5305-00-543-2766	MS35233-16	96906	SCREW, MACHINE	ASY	EA	4
0-43	37	PANZZ	5935-00-011-0592	BRRAIN13AP1	77020	CONNECTOR, RCPT, ELECTRICAL	ASY	EA	1
0-43	38	PANZZ	5310-00-603-0033	MS25236-6	96906	LIGHT, INDICATOR	ASY	EA	1

SECTION II. REPAIR PARTS LIST (CONTINUED)

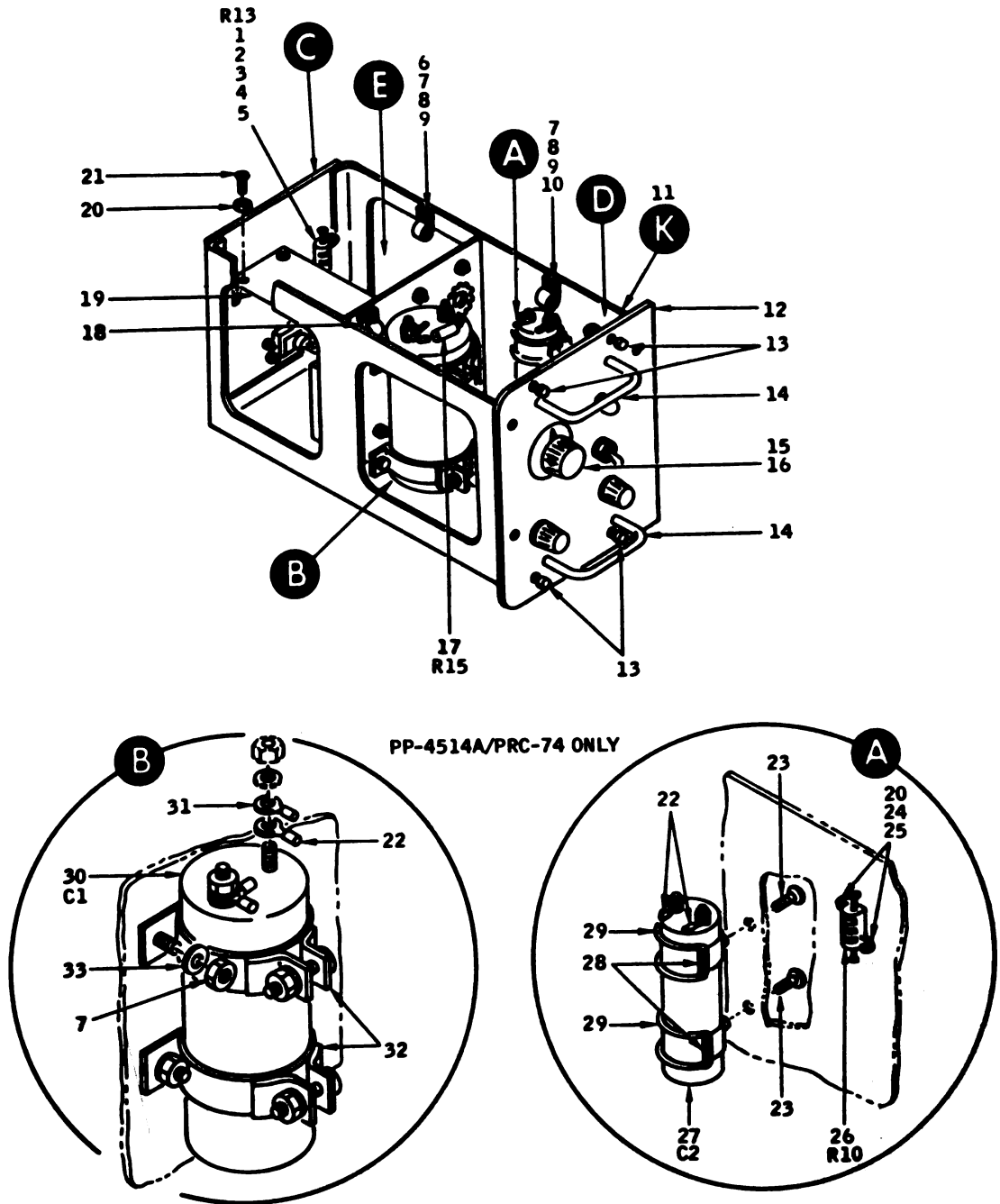
TM 11-5820-590-85-1

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-43	39	PARKE	5905-00-091-8957	719500-1	44655	RESISTOR, VARIABLE	ASY	EA	1
B-43	40	PARKE	5310-00-183-4355	AN960C616L	81349	WASHER, FLAT	ASY	EA	1
B-43	41	PAOKE	5980-00-548-3126	FO2A250V6A	81349	FUSE, CARTRIDGE	ASY	EA	2
B-43	42	PARKE	5920-00-556-0144	FMR200	81349	FUSEHOLDER	ASY	EA	2
B-43	43	PARKE	5930-00-655-1575	MB35059-22	96906	SWITCH, TOGGLE	ASY	EA	1
B-43	44	PARKE	5940-00-283-5280	MB25036-6	96906	TERMINAL, LUO	ASY	EA	4
B-43	45	PARKE	5310-00-407-9566	MB35338-45	96906	WASHER, LOCK	ASY	EA	4
B-43	46	PARKE	5310-00-167-0803	AN960C516	81349	WASHER, FLAT	ASY	EA	4
B-43	47	PARKE	5340-00-986-5471	A199-3	86928	WASHER, FLAT	ASY	EA	1
B-43	48	PAOKE	6840-00-155-7836	MB25237-327	96906	LAMP, INCANDESCENT	ASY	EA	1
B-43	49	PARKE	5940-00-939-5854	T22248-52	05869	TERMINAL, STUD	ASY	EA	7
B-43	50	PARKE	5310-00-584-3782	AN960C4L	81349	WASHER, FLAT	ASY	EA	7
B-43	51	PARKE	5310-00-550-3715	MB35333-70	96906	WASHER, LOCK	ASY	EA	7
B-43	52	PARKE	5305-00-638-0653	MB35233-14	96906	SCREW, MACHINE	ASY	EA	7
B-43	53	PARKE	5305-00-579-3508	MB35216-43	96906	SCREW, MACHINE	ASY	EA	1
B-43	54	PARKE	5340-00-200-3036	1-8-4	95987	CLAMP, LOOP	ASY	EA	1
B-43	55	PARKE	5310-00-816-1879	MB8679C3M	80205	BUT, SELF-LOCKING, HEXAGON	ASY	EA	6
B-43	56	PARKE	5310-00-167-0812	AN960C10L	81349	WASHER, FLAT	ASY	EA	6
B-43	57	PARKE	5305-00-043-6750	MB35226-63	96906	SCREW, MACHINE	ASY	EA	4
B-43	58	PARKE	5950-00-944-9885	TK12274	78790	REACTOR	ASY	EA	1
B-43	59	PARKE	5920-00-133-5400	RE3-10	94412	PROTECTOR, OVERVOLTAGE	ASY	EA	1
B-43	60	PARKE	5961-00-995-8625	JAN2H1482	81349	TRANSISTOR	ASY	EA	1
B-43	61	PARKE	5961-00-067-5691	TXEP033-047	98978	HEAT SINK, ELECTRONIC COMPONENT	ASY	EA	1
B-43	62	PARKE	5905-00-061-0739	RM67V10L	81349	RESISTOR, FIXED, WIRE WOUND	ASY	EA	1
B-43	63	PARKE	5970-00-006-9804	A368-23	86928	WASHER, NONMETALLIC	ASY	EA	2
B-43	64	PARKE	5970-00-497-9942	A362-30	86928	INSULATOR, BUSHING	ASY	EA	1
B-43	65	PARKE	5970-00-497-9943	A361-3	86928	INSULATOR, WASHER	ASY	EA	1
B-43	66	PARKE	5940-00-849-8394	520	79963	TERMINAL, LUO	ASY	EA	1
B-43	67	PARKE	5961-00-935-0138	JAN1E1202A	81349	SEMICONDUCTOR DEVICE, DIODE	ASY	EA	1
B-43	68	PARKE	5310-00-801-4420	MB8679C06M	80205	BUT, SELF-LOCKING, HEXAGON	ASY	EA	2
B-43	69	PARKE	5310-00-054-0041	MB8620C6L	80205	WASHER, FLAT	ASY	EA	4
B-43	70	PARKE	5970-00-891-1484	PBA10-32	05046	INSULATOR, BUSHING	ASY	EA	2
B-43	71	PARKE	5970-00-912-2183	732-734A	08530	INSULATOR, WASHER	ASY	EA	1
B-43	72	PARKE	5940-00-827-2653	MB77068-2	96906	TERMINAL, LUO	ASY	EA	1
B-43	73	PARKE	5305-00-368-3206	MB51957-30	96906	SCREW, MACHINE	ASY	EA	1
B-43	74	PARKE	5961-00-442-9494	38A16	86684	TRANSISTOR	ASY	EA	1
B-43	75	PARKE	5961-00-935-4912	JAN1E13890	81349	SEMICONDUCTOR DEVICE, DIODE	ASY	EA	1
B-43	76	PARKE	5310-00-193-5849	MB60001-04	75237	BUT, SELF-LOCKING, PLATE	ASY	EA	4
B-43	77	PARKE	5380-00-117-6814	MB80470AD3-3	96906	RIVET, BOLID	ASY	EA	8
B-43	78	PARKE	9330-00-714-4600	05LHC	03896	CROSSER, PLASTIC	ASY	EA	1
B-43	79	PARKE	5307-00-974-0535	FMB838-8	46384	STUD, FLAT	ASY	EA	4

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Change 2 3-133



EL5820-890-35P-TM-43 ①

Figure B-43. Battery charger subassembly (PP-4514 only)
(Sheet 1 of 4).

B-134 Change 2

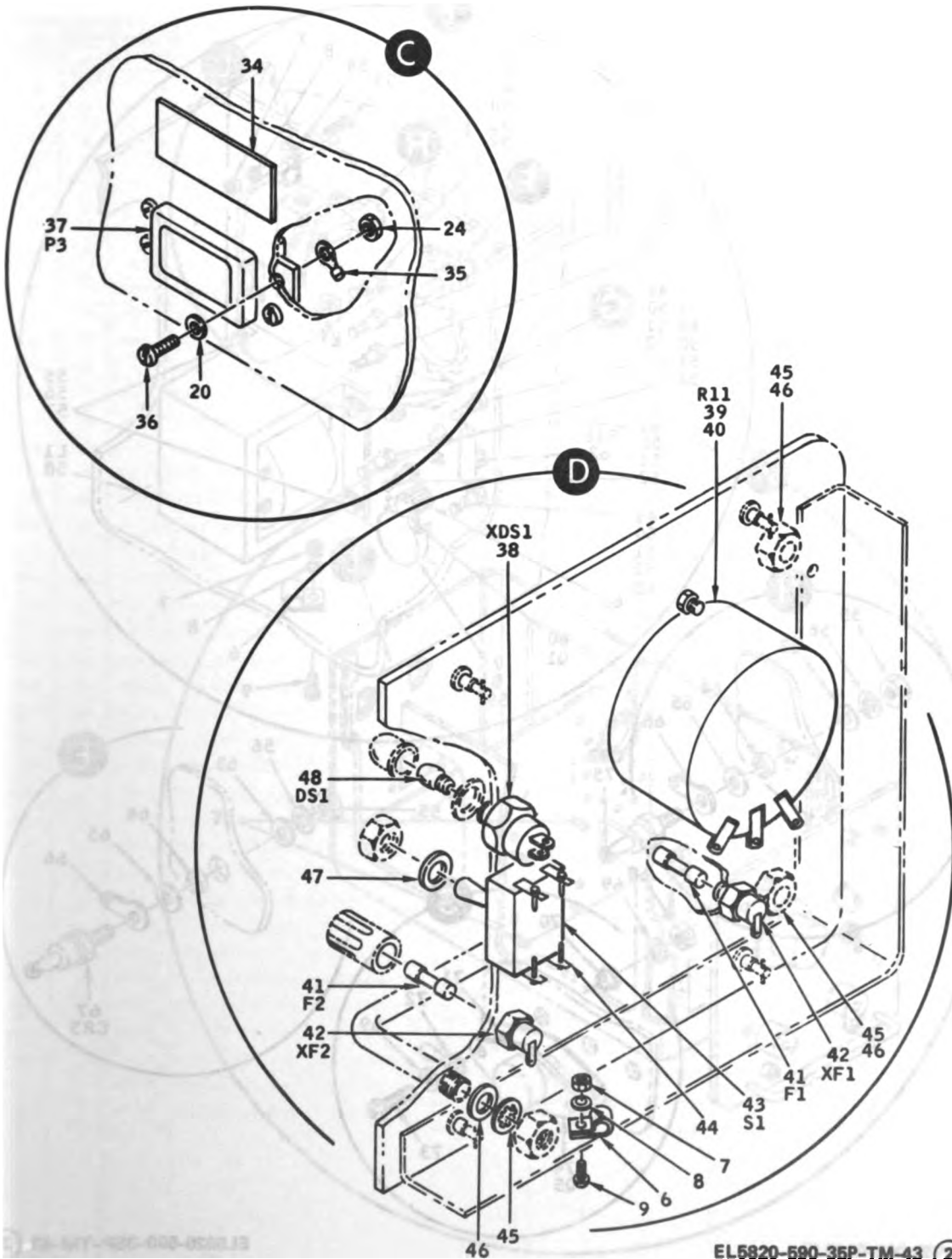
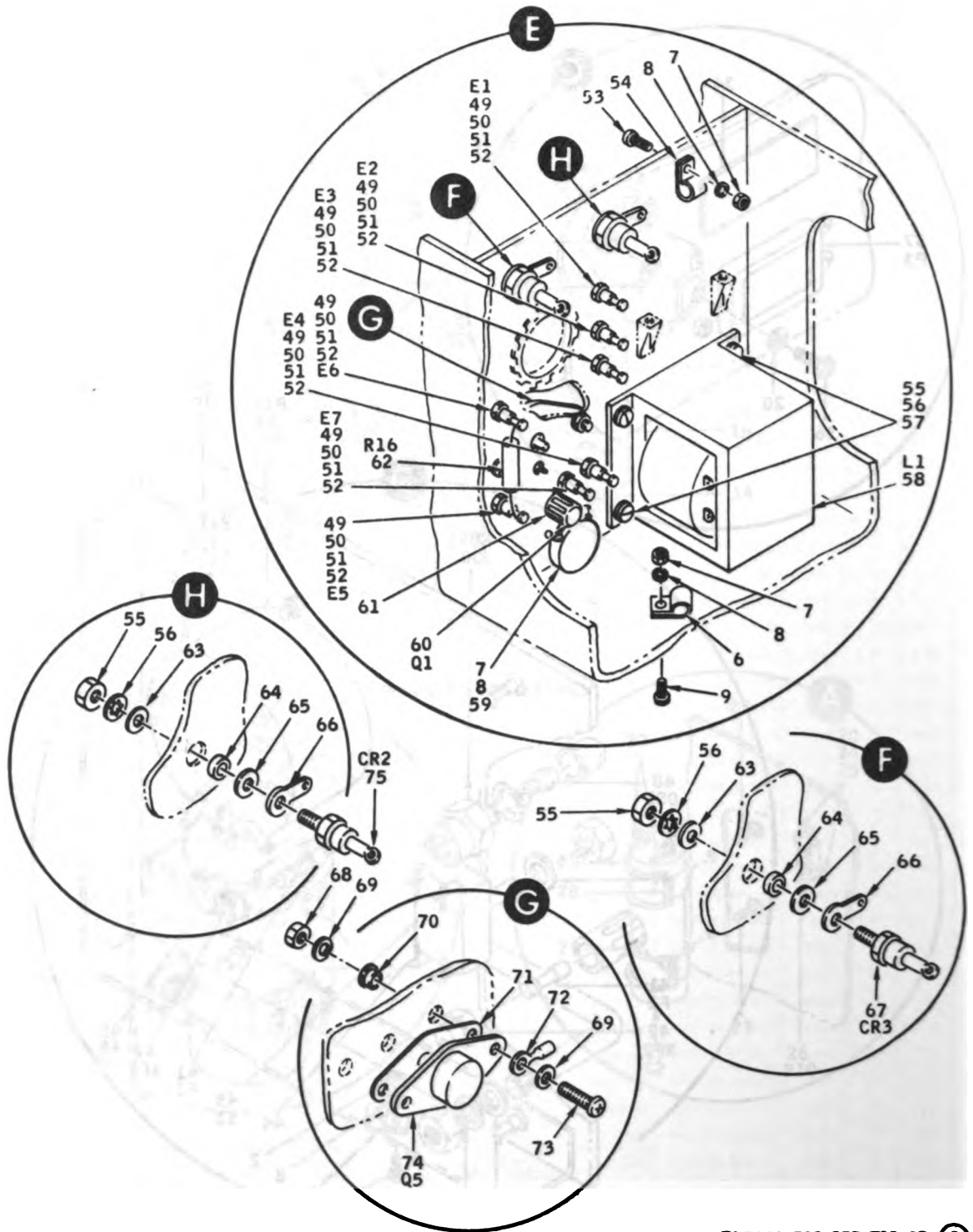


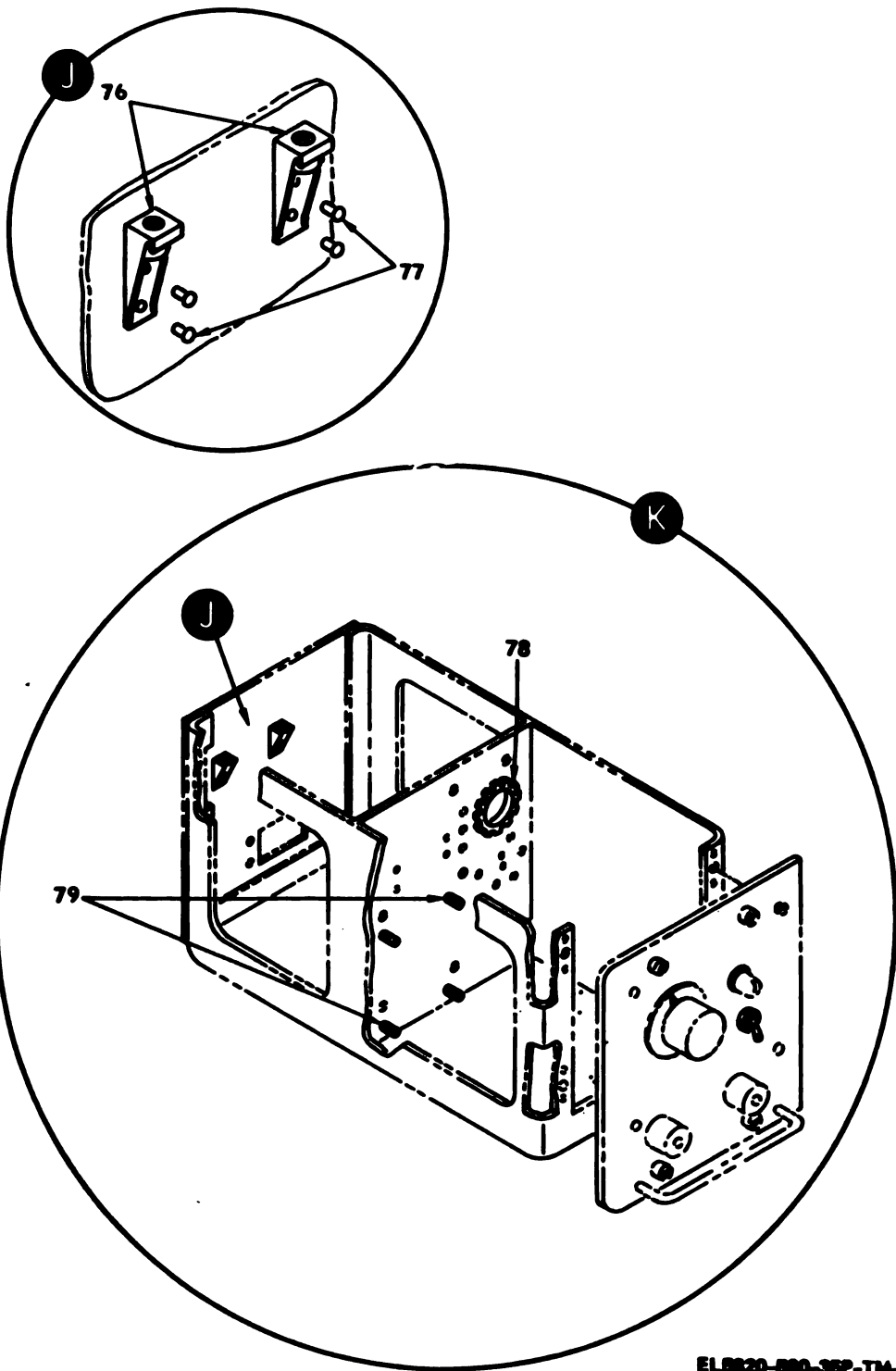
Figure B-43. Battery charger subassembly (PP-4514 only)
(Sheet 2 of 4).

Change 2 B-135



EL6820-800-35P-TM-43 ③

Figure B-43. Battery charger subassembly (PP-4514 only)
(Sheet 3 of 4).



EL6820-890-35P-TM-43 (4)

Figure B-43. Battery charger subassembly (PP-4514 only)
(Sheet 4 of 4).

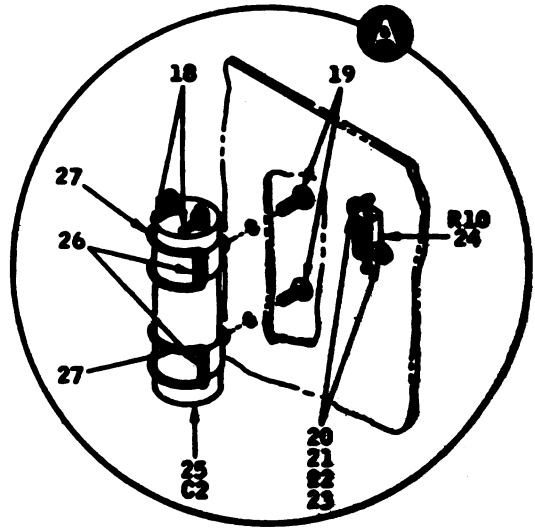
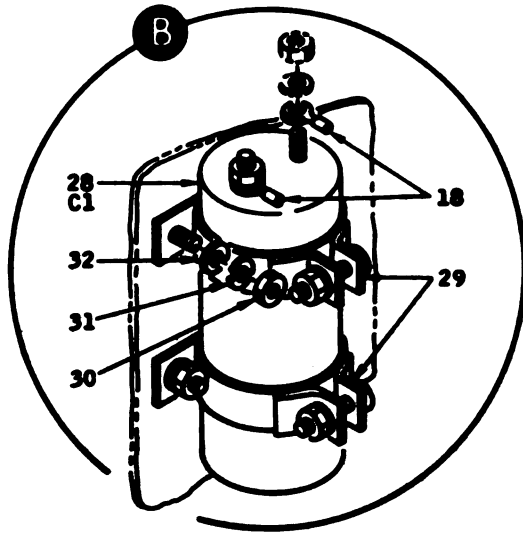
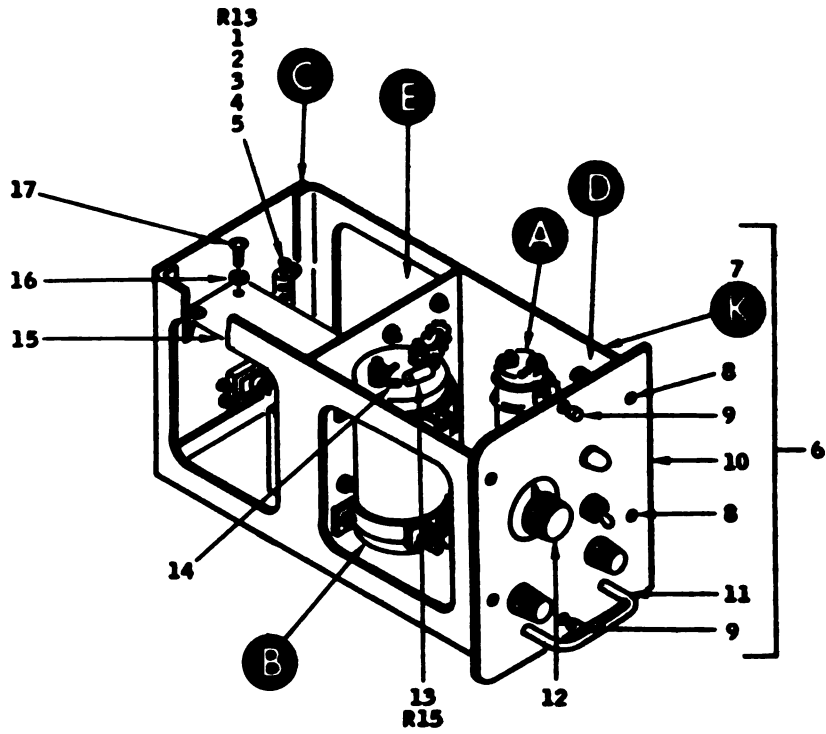
Change 2 B-137

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNST OF MEAS	(8) QTY INC IN UNST
(A) FIG NO.	(B) ITEM NO.								
B-44		AR02D		1541125-101	05869	CHARGER, BATTERY, UNIT FOR SUPPLY	CHY	EA	1
B-44	1	PARZZ	5905-00-878-7275	KB6501000	81349	RESISTOR, FIXED, WIRE WOUND	CHY	EA	1
B-44	2	PARZZ	5310-00-812-4294	NA8671C2	80205	NUT, FLAT, HEXAGON	CHY	EA	2
B-44	3	PARZZ	5310-00-543-4652	MB35333-69	96906	WASHER, LOCK	CHY	EA	2
B-44	4	PARZZ	5310-00-043-4708	NA8620C2	80205	WASHER, FLAT	CHY	EA	2
B-44	5	PARZZ	5305-00-543-2759	MB35233-4	96906	SCREEN, MACHINE	CHY	EA	2
B-44	6	XRZZZ		1592130	05869	CHASSIS, BATTERY CHARGER	CHY	EA	1
B-44	7	AR02H		1592128	05869	CHASSIS, MODULE	CHY	EA	1
B-44	8	PARZZ	5305-00-068-6533	MB35233-29	96906	SCREEN, MACHINE	CHY	EA	4
B-44	9	PARZZ	5305-00-269-3694	54-56-306-24	56007	SCREEN, PANEL FASTENER	CHY	EA	2
B-44	10	XRZZZ		1541119	05869	PANEL, FRONT BTRY CHARGER	CHY	EA	1
B-44	11	PARZZ	5340-00-999-4963	BR330	05046	HANDLE, BOW	CHY	EA	1
B-44	12	PAOZZ	5355-00-579-6390	MB91528-2F2B	96906	DIAL, CONTROL	CHY	EA	1
B-44	13	PARZZ	5905-00-901-7369	BR79U1001F	81349	RESISTOR, FID, WIRE WOUND	CHY	EA	1
B-44	14	PARZZ	5970-00-846-7471	A167	86928	TERMINAL, LUG	CHY	EA	2
B-44	15	AR02D		1592132	05869	RED, BTRY CHGR, UNIT FOR SUPPLY	CHY	EA	1
B-44	16	PARZZ	5310-00-584-3782	AR960C4L	81349	WASHER, FLAT	CHY	EA	4
B-44	17	PARZZ	5305-00-068-6532	MB35233-15	96906	SCREEN, MACHINE	CHY	EA	4
B-44	18	PAOZZ	5940-00-577-3711	MB35036-3	96906	TERMINAL, LUG	CHY	EA	2
B-44	19	PARZZ	5305-00-174-3885	AR507C632-3	81349	SCREEN, MACHINE	CHY	EA	2
B-44	20	PARZZ	5310-00-208-3786	NA8671C4	80205	NUT, FLAT, HEXAGON	CHY	EA	4
B-44	21	PARZZ	5310-00-913-8118	MB35338-135	96906	WASHER, LOCK	CHY	EA	4
B-44	22	PARZZ	5310-00-595-6211	MB15795-803	96906	WASHER, FLAT	CHY	EA	7
B-44	23	PARZZ	5305-00-543-9814	AR507C440-6	81349	SCREEN, MACHINE	CHY	EA	2
B-44	24	PARZZ	5905-00-851-5172	RT008200	81349	RESISTOR, FID, WIRE WOUND	CHY	EA	1
B-44	25	PARZZ	5910-00-999-9587	32D30R0025AC6B	56289	CAPACITOR, FID, ELECTROLYTIC	CHY	EA	1
B-44	26	PARZZ	5340-00-946-9440	C34	06229	STRAP, RETAINING	CHY	EA	2
B-44	27	PARZZ	5940-00-473-5595	H5	06229	STRAP, RETAINING	CHY	EA	2
B-44	28	PARZZ	5910-00-999-4172	32D96R0050CC6B	56289	CAPACITOR, FID, ELECTROLYTIC	CHY	EA	1
B-44	29	PARZZ	5340-00-114-5632	1065-1002	18915	CLAMP, LOOP	CHY	EA	2
B-44	30	PARZZ	5310-00-837-1381	NA8671C8	80205	NUT, FLAT, HEXAGON	CHY	EA	4
B-44	31	PARZZ	5310-00-543-2739	MB35333-72	96906	WASHER, LOCK	CHY	EA	4
B-44	32	PARZZ	5310-00-638-9897	AR960C6L	81349	WASHER, FLAT	CHY	EA	2
B-44	33	XRZZZ		1541129-003	05869	NAMEPLATE, MODULE	CHY	EA	1
B-44	34	PARZZ	5940-00-557-4398	MB25036-48	96906	TERMINAL, LUG	CHY	EA	1
B-44	35	PARZZ	5935-00-811-8592	88NA1813AP1	77820	CONNECTOR, RCPT, ELIC	CHY	EA	1
B-44	36	PARZZ	6240-00-155-7836	MB25237-327	96906	LAMP, INCANDESCENT	CHY	EA	1
B-44	37	PARZZ	5905-00-062-2939	MF2-07-00011FD	81349	RESISTOR, VARIABLE	CHY	EA	1
B-44	38	PAOZZ	5920-00-548-3126	FO2A250V6A	81349	FUSE, CARTRIDGE	CHY	EA	2

SECTION II REPAIR PARTS LIST (CONTINUED)

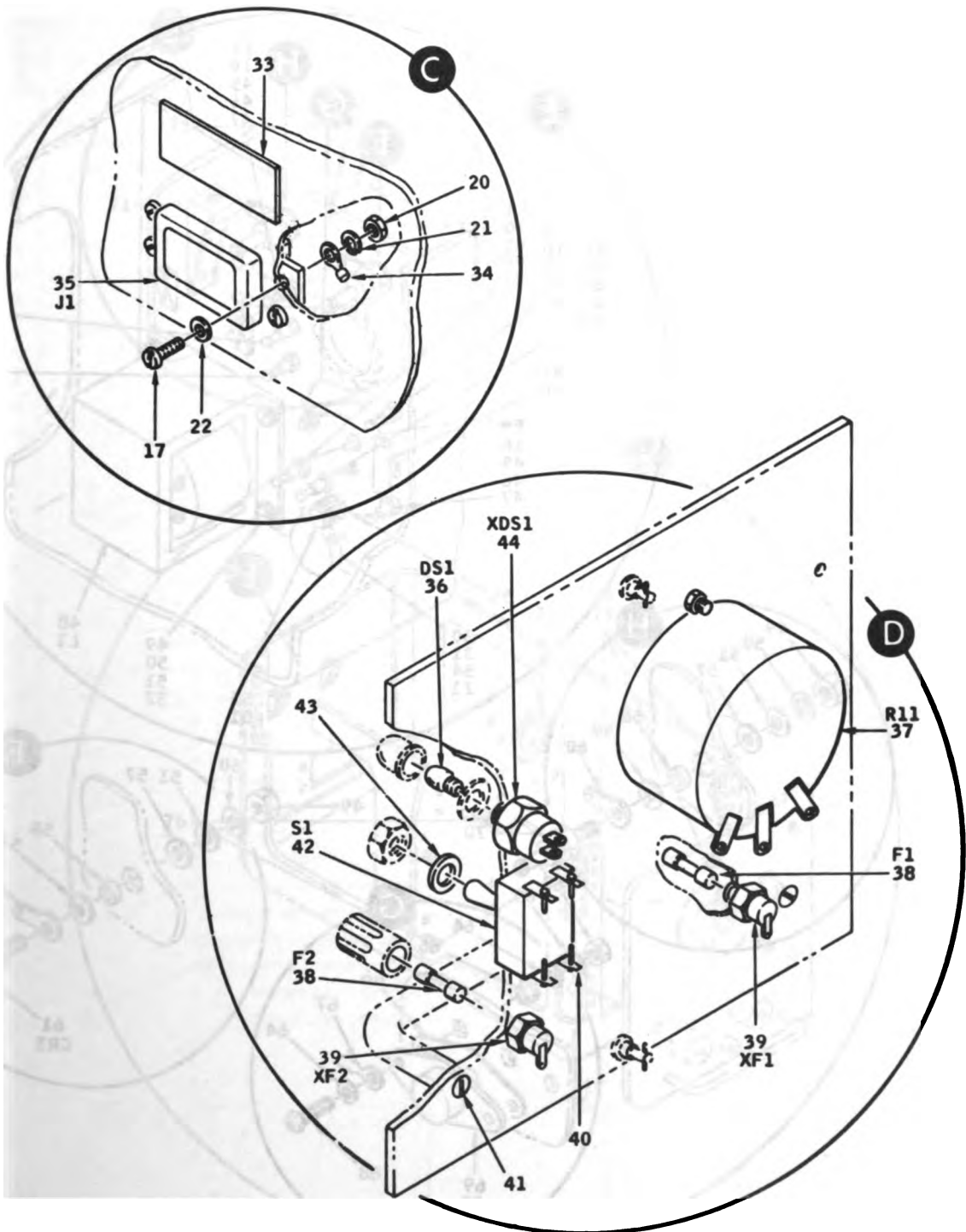
(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-44	39	PAMZZ	5920-00-556-0144	FHN206	81349	FUSEHOLDER	CNY	EA	2
B-44	40	PAMZZ	5940-00-283-5280	MS25036-6	96906	TERMINAL, LUG	CNY	EA	4
B-44	41	PAMZZ	5305-00-764-0068	MS51959-45	96906	SCREW, MACHINE	CNY	EA	2
B-44	42	PAMZZ	5930-00-655-1575	MS35059-22	96906	SWITCH, TOGGLE	CNY	EA	1
B-44	43	PAMZZ	5340-00-926-5471	A199-3	86928	WASHER, FLAT	CNY	EA	1
B-44	44	PAMZZ	6210-00-682-9833	MS25256-6	96906	LIGHT, INDICATOR	CNY	EA	7
B-44	45	PAMZZ	5940-00-939-5854	722248-052	05869	TERMINAL, STUD	CNY	EA	7
B-44	46	PAMZZ	5310-00-550-3715	MS35333-70	96906	WASHER, LOCK	CNY	EA	7
B-44	47	PAMZZ	5305-00-638-0653	MS35233-14	96906	SCREW, MACHINE	CNY	EA	7
B-44	48	PAMZZ	5950-00-944-9805	TE12274	70790	REACTOR	CNY	EA	1
B-44	49	PAMZZ	5310-00-812-4292	NAS671C10	00205	NUT, PLAIN, HEXAGON	CNY	EA	4
B-44	50	PAMZZ	5310-00-543-5933	MS35333-73	96906	WASHER, LOCK	CNY	EA	4
B-44	51	PAMZZ	5310-00-167-0812	AN960C10L	81349	WASHER, FLAT	CNY	EA	1
B-44	52	PAMZZ	5305-00-043-6750	MS35226-63	96906	SCREW, MACHINE	CNY	EA	4
B-44	53	PAMZZ	5961-00-995-0625	JAN2N1402	81349	TRANSISTOR	CNY	EA	1
B-44	54	PAMZZ	5920-00-133-5400	H23-10	94412	PROTECTOR, OVERVOLTAGE	CNY	EA	1
B-44	55	PAMZZ	5961-00-067-5691	TKSP833-047	90978	HEATSIK, ELECTRONIC COMPONENT	CNY	EA	1
B-44	56	PAMZZ	5905-00-061-0739	RM67V101	81349	RESISTOR, FXD, WIRE WOUND	CNY	EA	1
B-44	57	PAMZZ	5970-00-006-9804	A368-23	86928	WASHER, NON-METALIC	CNY	EA	2
B-44	58	PAMZZ	5970-00-497-9942	A362-38	86928	INSULATOR, BUSHING	CNY	EA	2
B-44	59	PAMZZ	5970-00-497-9943	A361-3	86928	INSULATOR, WASHER	CNY	EA	2
B-44	60	PAMZZ	5940-00-049-8394	520	79963	TERMINAL, LUG	CNY	EA	2
B-44	61	PAMZZ	5961-00-811-9799	JAN1N1202	81349	SEMICONDUCTOR DEVICE, DIODE	CNY	EA	1
B-44	62	PAMZZ	5310-00-934-9761	MS35649-264	96906	NUT, PLAIN, HEXAGON	CNY	EA	2
B-44	63	PAMZZ	5310-00-616-3555	MS35333-71	96906	WASHER, LOCK	CNY	EA	2
B-44	64	PAMZZ	5310-00-054-0041	NAS680C6L	00205	WASHER, FLAT	CNY	EA	4
B-44	65	PAMZZ	5970-00-891-1404	PR410-52	05046	INSULATOR, BUSHING	CNY	EA	2
B-44	66	PAMZZ	5970-00-912-2183	732-734A	08530	INSULATOR, WASHER	CNY	EA	1
B-44	67	PAMZZ	5940-00-827-2633	MS77068-2	96906	TERMINAL, LUG	CNY	EA	1
B-44	68	PAMZZ	5305-00-054-6635	MS51957-31	96906	SCREW, MACHINE	CNY	EA	2
B-44	69	PAMZZ	5961-00-442-9494	38416	86684	TRANSISTOR	CNY	EA	1
B-44	70	PAMZZ	5961-00-935-4912	JAN1N3890	81349	SEMICONDUCTOR DEVICE, DIODE	CNY	EA	1
B-44	71	PAMZZ	5310-00-193-5249	NP19351-04	75237	NUT, SELF-LKG, PLATE	CNY	EA	4
B-44	72	PAMZZ	5320-00-721-8973	MS20470A3-3	96906	RIVET, SOLID	CNY	EA	8
B-44	73	PAMZZ	9330-00-714-4600	651HC	03296	GROMMET, PLASTIC	CNY	EA	1
B-44	74	PAMZZ	5310-00-879-4992	NAS1063C06M	00205	NUT, SELF-LKG, PLATE	CNY	EA	4
B-44	75	PAMZZ	5320-00-721-5277	MS20426A2-5	96906	RIVET, SOLID	CNY	EA	8
B-44	76	PAMZZ	5307-00-974-0535	PH832-8	46384	STUD, PLAIN	CNY	EA	4



EL5820-500-35P-TM-44 (1)

Figure B-44. Battery charger subassembly (FP-4314A only)
(Sheet 1 of 4).

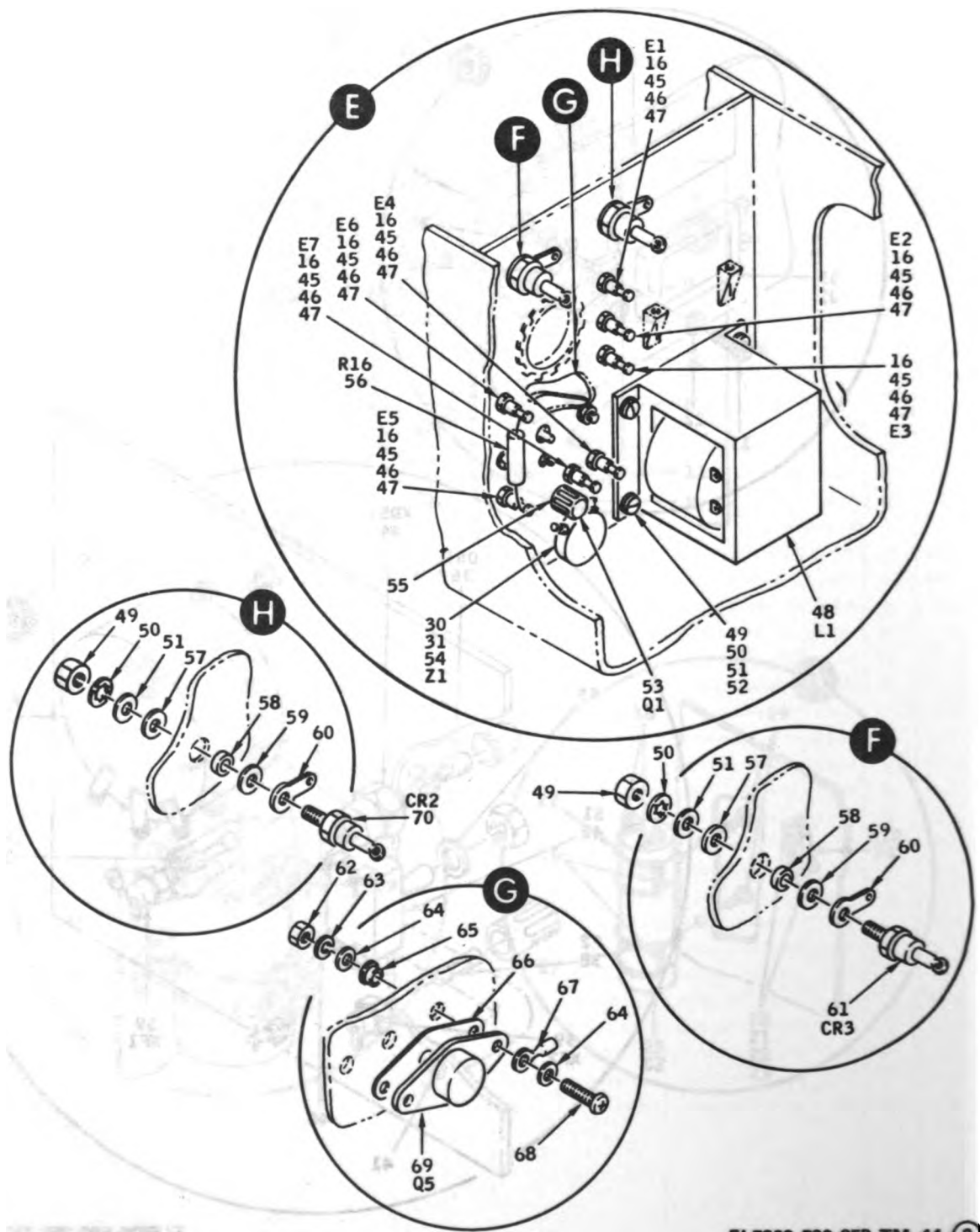
B-146 Change 2



EL5820-500-36P-TM-44 (2)

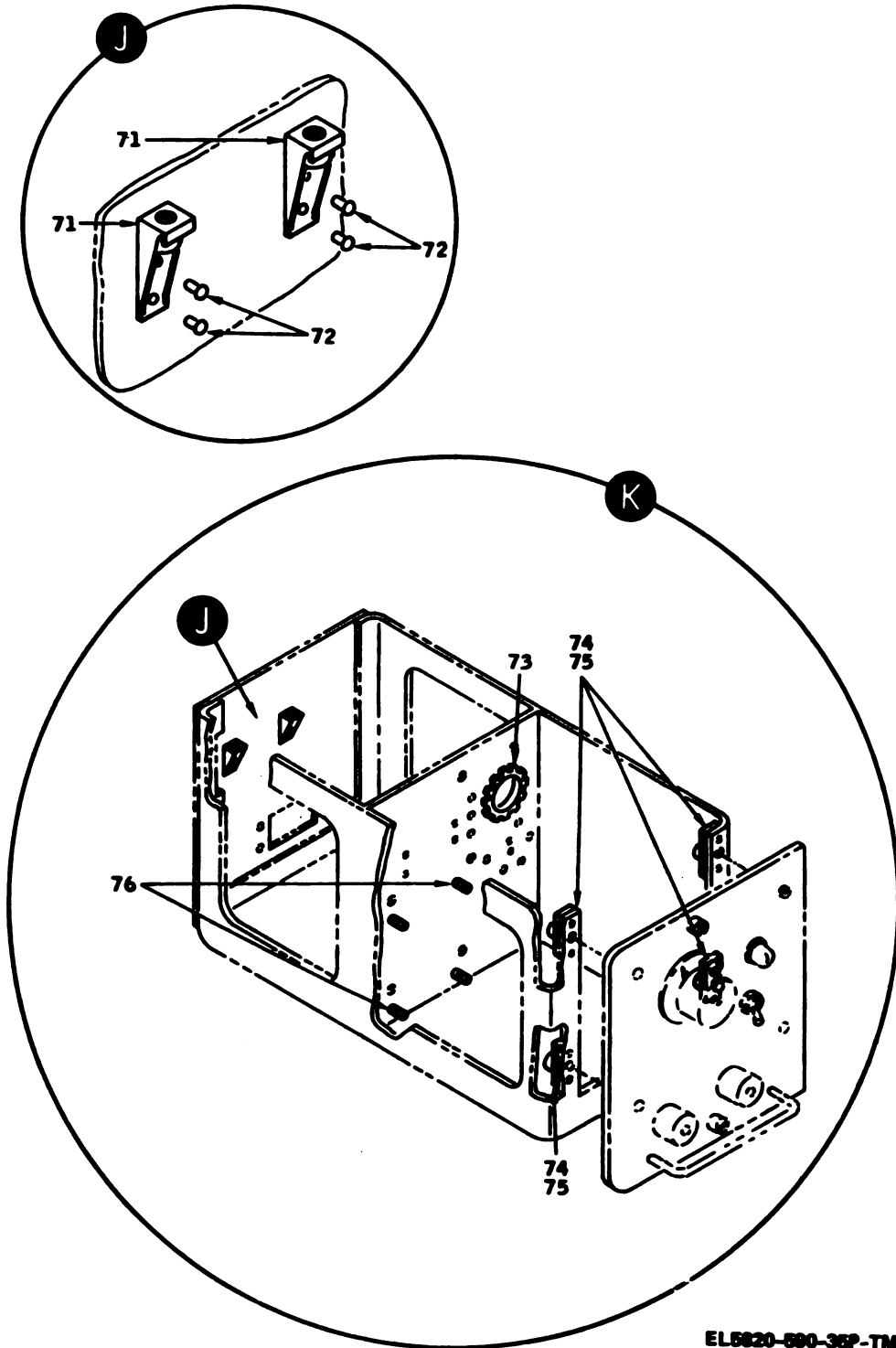
Figure B-44. Battery charger subassembly (PP-4514A only)
(Sheet 2 of 4).

Change 2 B-141



EL5820-500-SEP-TM-44

Figure B-44. Battery charger subassembly (PP-4514A only)
(Sheet 3 of 4).



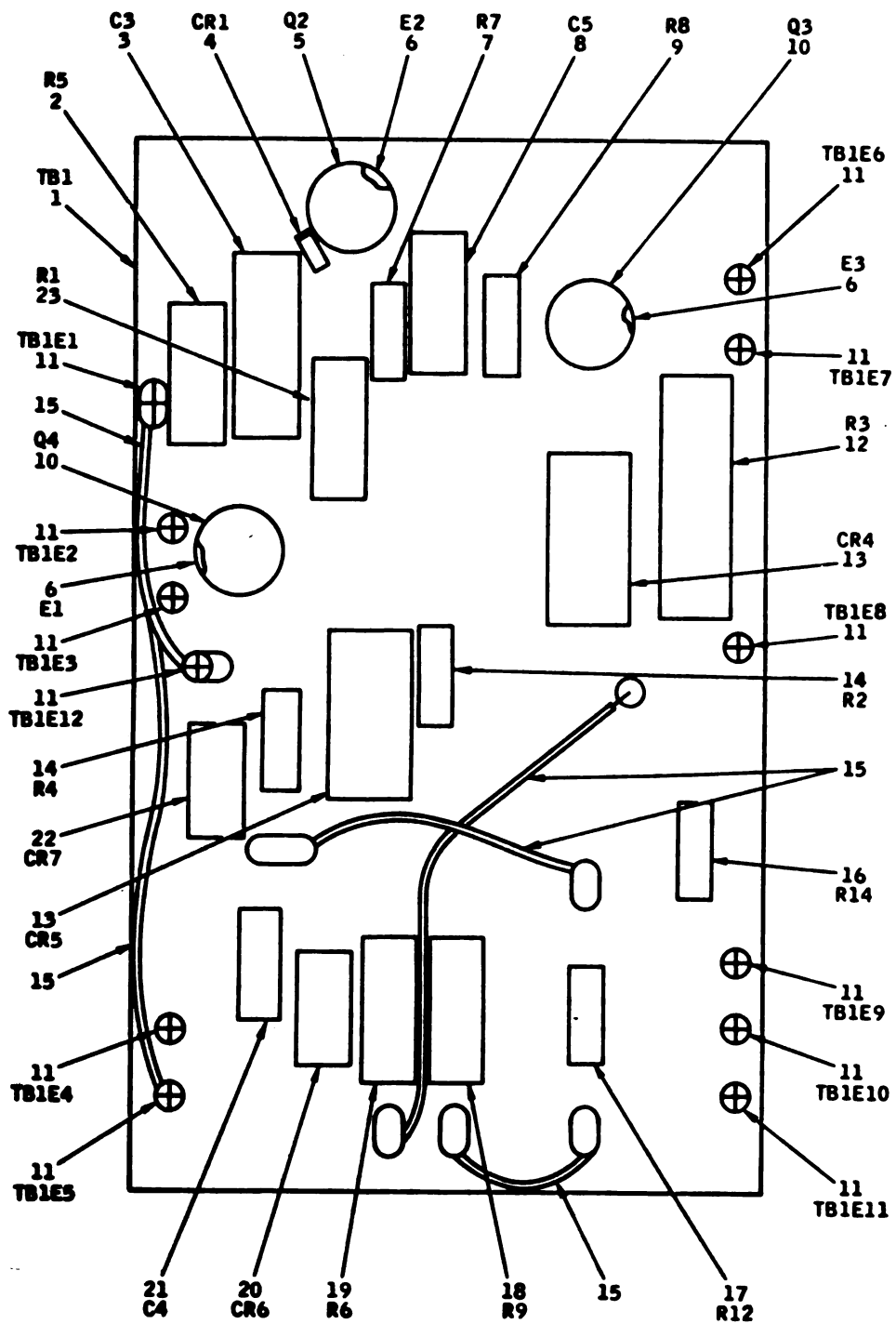
EL5820-600-36P-TM-44 (4)

Figure B-44. Battery charger subassembly (FP-4514A only)
(Sheet 4 of 4).

Change 2 B-143

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
GROUP: 09010101 BATTERY CHARGER REGULATOR									
D-45		AMPXD		1592132	05869	RELTR, BTRY CHGR, UNIV-PWR SPLY	CHV	EA	1
D-45		AMPXD		1590861	05869	RELTR, BTRY CHGR, UNIV-PWR SPLY	ASV	EA	1
D-45	1	XBNZZ	5820-00-999-4746	1541114	05869	BOARD, CIRCUIT REGULATOR		EA	1
D-45	2	PAKZZ	5905-00-092-0368	RC326F222J	01349	RESISTOR, FXD, COMPOSITION	CHV	EA	1
D-45	2	PAKZZ	5905-00-111-0372	RCR326222JS	01349	RESISTOR, FXD, COMPOSITION	ASV	EA	1
C D-45	3	PAKZZ	5910-00-000-3709	X563F-100MP10 PCT100V	04411	CAPACITOR, FXD, FILM DIELECTRIC		EA	1
D-45	4	PAKZZ	5961-00-042-9864	JAN1M914	01349	SEMICONDUCTOR DEVICE, DIODE		EA	1
R D-45	5	PAKZZ	5961-00-037-7262	JAN2M697	01349	TRANSISTOR		EA	1
R D-45	6	PAKZZ	5970-00-947-1015	100790AP	07047	INSULATOR, TRANSISTOR		EA	3
D-45	7	PAKZZ	5905-00-075-1135	RN69V821	01349	RESISTOR, FXD, WIRE WOUND		EA	1
C D-45	8	PAKZZ	5910-00-901-9465	CS130G106K	01349	CAPACITOR, FXD, ELECTROLYTIC	CHV	EA	1
H D-45	8	PAKZZ		R26655-2-0244	01349	CAPACITOR, FXD, ELECTROLYTIC	ASV	EA	1
R D-45	9	PAKZZ	5905-00-195-6006	RC206F102J	01349	RESISTOR, FXD, COMPOSITION	CHV	EA	1
D-45	9	PAKZZ	5905-00-110-0196	RCR206102JS	01349	RESISTOR, FXD, COMPOSITION	ASV	EA	1
C D-45	10	PAKZZ	5961-00-055-1551	JAN2M2905	01349	TRANSISTOR		EA	2
D-45	12	PAKZZ	5905-00-079-3635	RN676102	01349	RESISTOR, FXD, WIRE WOUND		EA	1
D-45	13	PAKZZ	5961-00-078-7660	JAN1M340	01349	SEMICONDUCTOR DEVICE, DIODE		EA	2
R D-45	14	PAKZZ	5905-00-190-0009	RC206F101J	01349	RESISTOR, FXD, COMPOSITION	CHV	EA	2
D-45	14	PAKZZ	5905-00-106-9344	RCR206101JS	01349	RESISTOR, FXD, COMPOSITION	ASV	EA	2
R D-45	15	PAKZZ	5970-00-029-2339	995037-029	09795	INSULATION, SLEEVING		EA	3
D-45	16	PAKZZ	5905-00-279-1745	RC326F150J	01349	RESISTOR, FXD, COMPOSITION	CHV	EA	1
D-45	16	PAKZZ	5905-00-400-4601	RCR326150JS	01349	RESISTOR, FXD, COMPOSITION	ASV	EA	1
R D-45	17	PAKZZ	5905-00-279-3306	RC206F332J	01349	RESISTOR, FXD, COMPOSITION	CHV	EA	1
D-45	17	PAKZZ	5905-00-104-0340	RCR206332JS	01349	RESISTOR, FXD, COMPOSITION	ASV	EA	1
D-45	18	PAKZZ	5905-00-000-3102	RN7006010F	01349	RESISTOR, FIXED, FILM		EA	1
D-45	19	PAKZZ	5905-00-078-7774	RN7001151F	01349	RESISTOR, FIXED, FILM		EA	1
D-45	20	PAKZZ	5961-00-752-6121	JAN1M753A	01349	SEMICONDUCTOR DEVICE, DIODE		EA	1
C D-45	21	PAKZZ	5910-00-936-1521	H39003-01-2014	01349	CAPACITOR, FIXED, ELECTROLYTIC		EA	1
D-45	22	PAKZZ	5961-00-995-2986	1M995	05077	SEMICONDUCTOR DEVICE, DIODE		EA	1
D-45	23	PAKZZ	5905-00-299-2053	RC326F221J	01349	RESISTOR, FXD, COMPOSITION	CHV	EA	1
D-45	23	PAKZZ	5905-00-106-1247	RCR326221JS	01349	RESISTOR, FXD, COMPOSITION	ASV	EA	1



EL5820-590-35P-TM-45

Figure B-45. Battery charger, component panel.

Change 2 B-145

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) QTY OF MEAS	(8) QTY INC IN UNST	
(A) FIG NO.	(B) ITEM NO.									
GROUP: 090202 POWER SUPPLY SUBASSEMBLY										
	16	ABRD		1541128-101	5869	POWER SUPPLY	CHY	EA	1	
	B-46	1	PARZZ	5905-00-892-0260	NR6902000	81349	RESISTOR, FIXED, WIRE WOUND	CHY	EA	1
	B-46	2	PARZZ	5310-00-812-4294	RA8671C2	80205	BUT, FLAIN, HEXAGON	CHY	EA	2
	B-46	3	PARZZ	5310-00-543-4632	NR35333-69	96906	WASHER, LOCK	CHY	EA	2
	B-46	4	PARZZ	5310-00-043-4708	RA8620C2	80205	WASHER, FLAT	CHY	EA	2
	B-46	5	PARZZ	5305-00-543-2739	NR35323-4	96906	SCREW, MACHINE	CHY	EA	2
	B-46	6	PARZZ	5970-00-846-7471	A167	86928	TERMINAL, LUG	CHY	EA	2
	B-46	7	PARZZ	5905-00-901-7369	NR7901001P	81349	RESISTOR, FIXED, WIRE WOUND	CHY	EA	1
	B-46	8	ARHNN		1592129	05869	CHASSIS, FOR SUP-UNIT FOR SUP	CHY	EA	1
	B-46	9	ARHNN		1592128	05869	CHASSIS, MODULE	CHY	EA	1
R	B-46	10	PARZZ	5305-00-269-3694	54-58-306-24	56007	SCREW, PANEL FASTENER	CHY	EA	2
R	B-46	11	XREZZ	5820-00-105-6933	1541118	05869	PANEL, FRONT-POWER SUPPLY	CHY	EA	1
	B-46	12	PARZZ	5355-00-556-0145	NR91528-1K2B	96906	DIAL, CONTROL	CHY	EA	1
	B-46	13	PARZZ	5305-00-068-6533	NR35323-29	96906	SCREW, MACHINE	CHY	EA	4
	B-46	14	XREZZ	5340-00-999-4963	BFR330	05046	HANDLE, BOX	CHY	EA	1
C	B-46	15	PARZZ	6625-00-930-0266	1521	65092	VOLTMETER	CHY	EA	1
	B-46	16	PARZZ	5820-00-139-4898	1992131	05869	REG. FOR SUPPLY-UNIT FOR SUPPLY	CHY	EA	1
	B-46	17	PARZZ	5310-00-584-3782	AR960C4L	81349	WASHER, FLAT	CHY	EA	4
	B-46	18	PARZZ	5305-00-068-6532	1541133-15	96906	SCREW, MACHINE	CHY	EA	4
	B-46	19	PARZZ	5940-00-577-3711	NR2	96906	TERMINAL, LUG	CHY	EA	5
	B-46	20	PARZZ	5305-00-174-3885	AR507C...	81349	SCREW, MACHINE	CHY	EA	2
	B-46	21	PAOZZ	5340-00-946-9444	C34	06229	STRAP, RETAINING	CHY	EA	2
	B-46	22	PAOZZ	5940-00-473-559	H5	06229	STRAP, RETAINING	CHY	EA	2
C	B-46	23	PARZZ	5910-00-127-1846	36D8220025AC2A	56289	CAPACITOR, FIXED, ELECTROLYTIC	CHY	EA	1
	B-46	24	PARZZ	5910-00-999-4712	32D56200500C8B	56289	CAPACITOR, FIXED, ELECTROLYTIC	CHY	EA	1
	B-46	25	PARZZ	5940-00-644-8713	NR25036-8	96906	TERMINAL, LUG	CHY	EA	1
R	B-46	26	PARZZ	5340-00-114-5632	1065-1002	18915	CLAMP, LOOP	CHY	EA	2
	B-46	27	PARZZ	5310-00-837-1381	RA8671C8	80205	BUT, FLAIN, HEX	CHY	EA	4
	B-46	28	PARZZ	5310-00-543-2739	NR35333-72	96906	WASHER, LOCK	CHY	EA	4
	B-46	29	PARZZ	5310-00-558-6207	AR960C8L	81349	WASHER, FLAT	CHY	EA	4
	B-46	30	XREZZ		1541129-004	05869	NAMEPLATE	CHY	EA	1
	B-46	31	PARZZ	5310-00-208-3786	RA8671C4	80205	BUT, FLAIN, HEX	CHY	EA	4
	B-46	32	PARZZ	5310-00-550-3715	NR35333-70	96906	WASHER, LOCK	CHY	EA	4
	B-46	33	PARZZ	5940-00-557-4398	NR25036-48	96906	TERMINAL, LUG	CHY	EA	1
R	B-46	34	PARZZ	5310-00-595-6211	NR15795-803	96906	WASHER, FLAT	CHY	EA	7
	B-46	35	PARZZ	5935-00-989-7064	SPRAIR26AP1	77820	CONNECTOR, RCPT, ELAC	CHY	EA	1
	B-46	36	PAOZZ	6240-00-155-7836	NR25237-327	96906	LAMP, INCANDESCENT	CHY	EA	1
	B-46	37	PARZZ	5930-00-864-6268	Z12806A1	76854	SWITCH, ROTARY	CHY	EA	1
	B-46	38	PARZZ	5310-00-183-4355	AR960C616L	81349	WASHER, FLAT	CHY	EA	1

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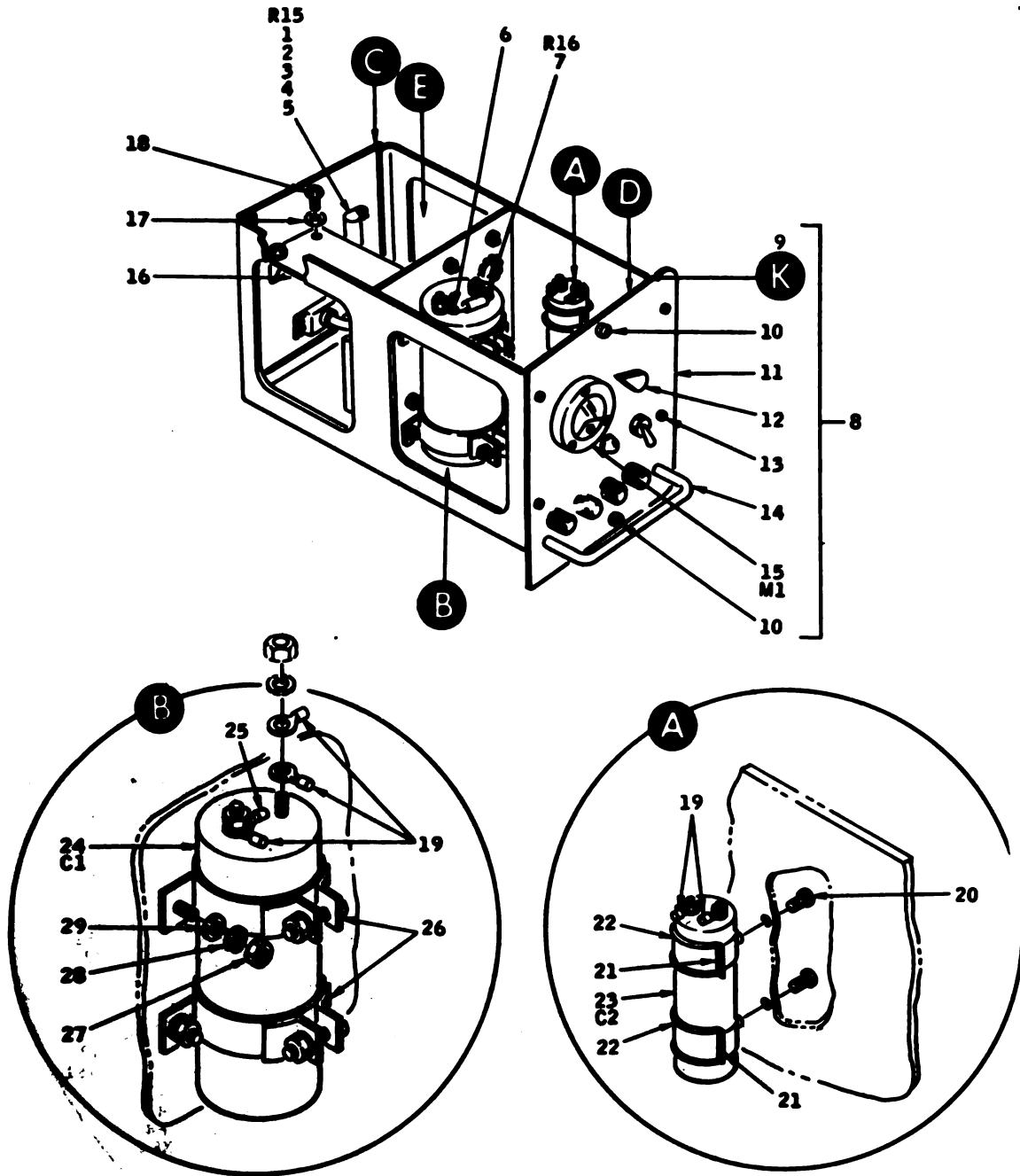
B-146 Change 2

SECTION II. REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
B-46	39	PARXX	5940-00-660-3631	NR25036-50	96906	TERMINAL, LUG	CFY	EA	2
B-46	40	PARXX	5920-00-012-0157	FO2A32V15A	81349	FUSE, CARTRIDGE	CFY	EA	1
B-46	41	PARXX	5920-00-556-0144	FWR200	81349	FUSEHOLDER	CFY	EA	4
B-46	42	PARXX	6210-00-682-9833	MS25256-6	96906	LIGHT, INDICATOR	CFY	EA	1
B-46	43	PARXX	5920-00-557-5033	FO3A250V8A	81349	FUSE, CARTRIDGE	CFY	EA	1
B-46	44	PARXX	5940-00-503-9995	NR25036-1	96906	TERMINAL, LUG	CFY	EA	3
B-46	45	PARXX	5920-00-557-2647	FO2A250V4A	81349	FUSE, CARTRIDGE	CFY	EA	1
B-46	46	PARXX	5940-00-283-5280	NR25036-6	96906	TERMINAL, LUG	CFY	EA	8
B-46	47	PARXX	5305-00-764-0068	NS51959-45	96906	SCREW, MACHINE	CFY	EA	2
B-46	48	PARXX	5920-00-280-4960	FO2A250V2A	81349	FUSE, CARTRIDGE	CFY	EA	1
B-46	49	PARXX	5930-00-577-2523	NR25068-24	96906	SWITCH, TOGGLE	CFY	EA	1
B-46	50	PARXX	5340-00-926-9471	A199-3	86928	WASHER, FLAT	CFY	EA	1
B-46	51	PARXX	5940-00-939-5854	722240-052	05869	TERMINAL STUD	CFY	EA	7
B-46	52	PARXX	5310-00-943-5933	NS35333-73	96906	WASHER, LOCK	CFY	EA	9
B-46	53	PARXX	5305-00-638-0653	NS35233-14	96906	SCREW, MACHINE	CFY	EA	7
B-46	54	PARXX	5310-00-812-4292	NAB671C10	80205	NUT, PLAIN, HEXAGON	CFY	EA	6
B-46	55	PARXX	5310-00-167-0812	AF960C10L	81349	WASHER, FLAT	CFY	EA	6
B-46	56	PARXX	5305-00-043-6750	NS35226-63	96906	SCREW, MACHINE	CFY	EA	4
B-46	57	PARXX	5950-00-944-9885	TK12274	78790	REACTOR	CFY	VA	1
B-46	58	PARXX	5961-00-995-8625	JAN2W1402	81349	TRANSISTOR	CFY	EA	1
B-46	59	PARXX	5920-00-944-8771	EL7.5-10	94412	PROTECTOR, OVERVOLTAGE	CFY	EA	1
B-46	60	PARXX	5961-00-067-5691	TKSP033-047	98978	HEAT SINK, ELECTRONIC COMPONENT	CFY	EA	1
B-46	61	PARXX	5905-00-061-0739	RW67V101	81349	RESISTOR, FIXED, WIRE WOUND	CFY	EA	1
B-46	62	PARXX	5970-00-006-9804	A368-23	86928	WASHER, BOMBETALLIC	CFY	EA	2
B-46	63	PARXX	5970-00-497-9942	A362-30	86928	INSULATOR, BUSHING	CFY	EA	2
B-46	64	PARXX	5970-00-497-9943	A361-3	86928	INSULATOR, WASHER	CFY	EA	2
B-46	65	PARXX	5940-00-849-8394	520	79963	TERMINAL, LUG	CFY	EA	2
B-46	66	PARXX	5961-00-935-4912	JAN1W3890	81349	SEMICONDUCTOR DEVICE, DIODE	CFY	EA	1
B-46	67	PARXX	5310-00-934-9761	NS35649-264	96906	NUT, PLAIN, HEXAGON	CFY	EA	2
B-46	68	PARXX	5310-00-616-3555	NS35333-71	96906	WASHER, LOCK	CFY	EA	2
B-46	69	PARXX	5310-00-054-0041	NAB62006L	80205	WASHER, FLAT	CFY	EA	4
B-46	70	PARXX	5970-00-891-1484	FR410-52	05046	INSULATOR, BUSHING	CFY	EA	2
B-46	71	PARXX	5970-00-912-2183	732-734A	08530	INSULATOR, WASHER	CFY	EA	1
B-46	72	PARXX	5940-00-827-2653	NR77068-2	96906	TERMINAL, LUG	CFY	EA	1
B-46	73	PARXX	5305-00-054-6655	NS51957-31	96906	SCREW, MACHINE	CFY	EA	2
B-46	74	PARXX	5961-00-442-9494	38416	86684	TRANSISTOR	CFY	EA	1
B-46	75	PARXX	5961-00-811-5799	JAN1W1202	81349	SEMICONDUCTOR DEVICE, DIODE	CFY	EA	1
B-46	76	PARXX	5310-00-193-5249	NP19351-04	75237	NUT, SELF-LOCKING, PLATE	CFY	EA	4
B-46	77	PARXX	5320-00-721-8973	NR20470A3-3	96906	RIVET, SOLID	CFY	EA	3
B-46	78	PARXX	9330-00-714-4600	051BC	03296	GROMMET, PLASTIC	CFY	EA	1

SECTION II REPAIR PARTS LIST (CONTINUED)

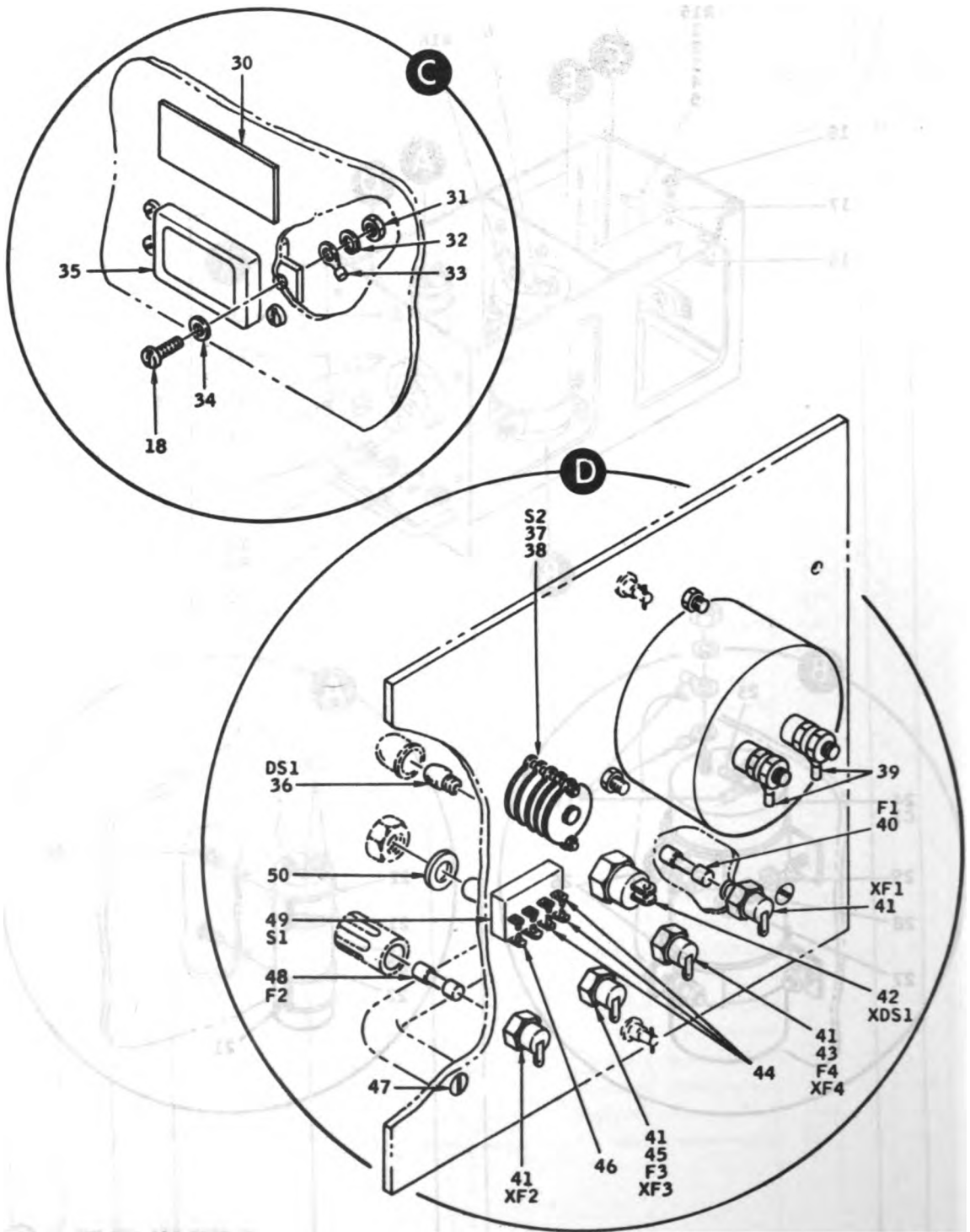
(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE CN CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
8-46	79	PAHZZ	5310-00-879-4992	HAS1068CJG11	80205	HUT, SELF-LKG PLATE	CNY	EA	4
8-46	80	PAHZZ	5320-00-721-5277	MS20426A2-5	96900	RIVET, SOLID	CNY	EA	8
8-46	81	PAHZZ	5307-00-974-0535	F15832-8	46384	STUD, PLAIN	CNY	EA	4



EL5820-590-35P-TM-46 ①

Figure B-46. Power supply subassembly (PP-4514 only)
(Sheet 1 of 4).

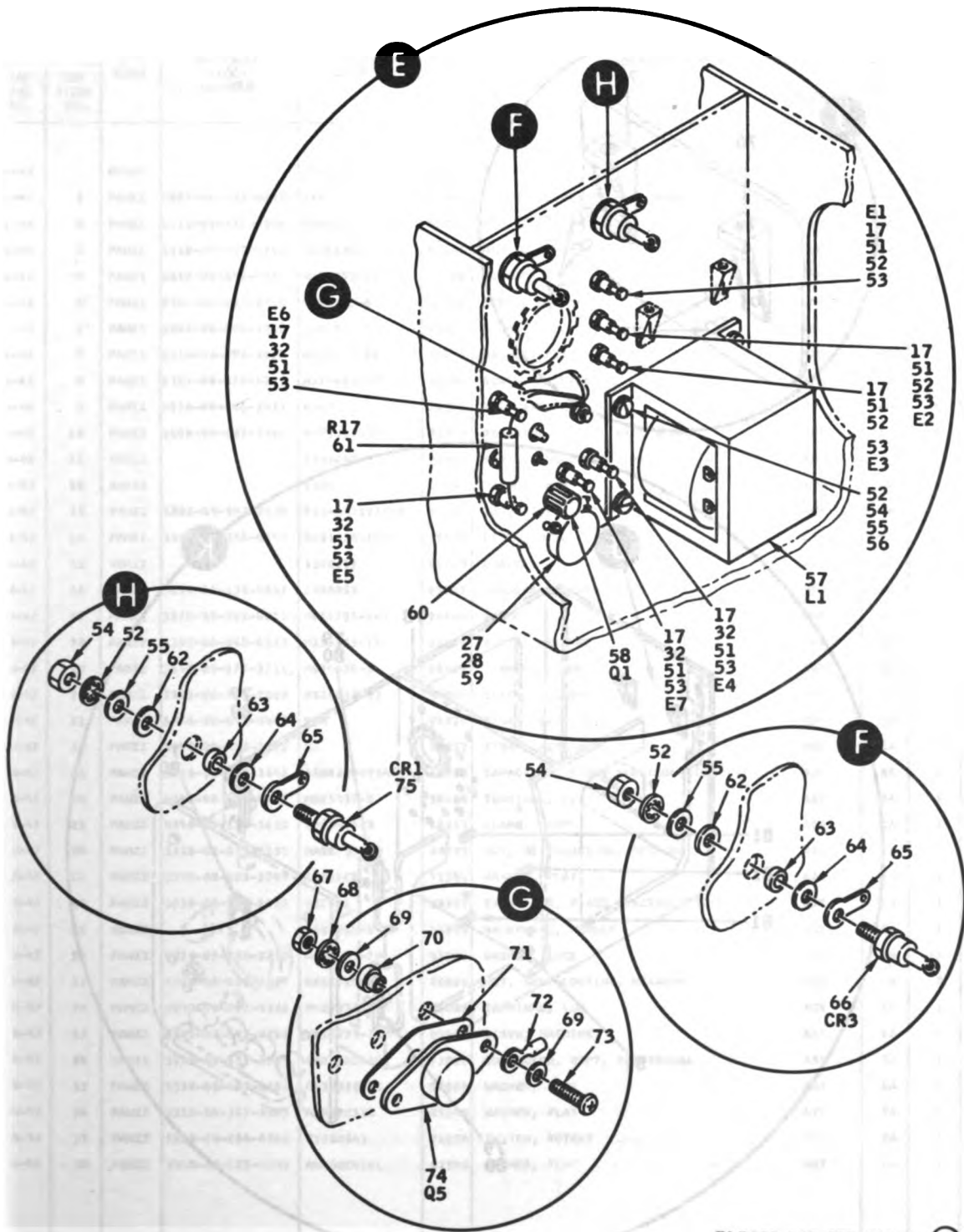
Change 2 B-149



EL5820-600-35P-TM-46 (2)

Figure B-46. Power supply subassembly (PP-4514 only)
(Sheet 2 of 4).

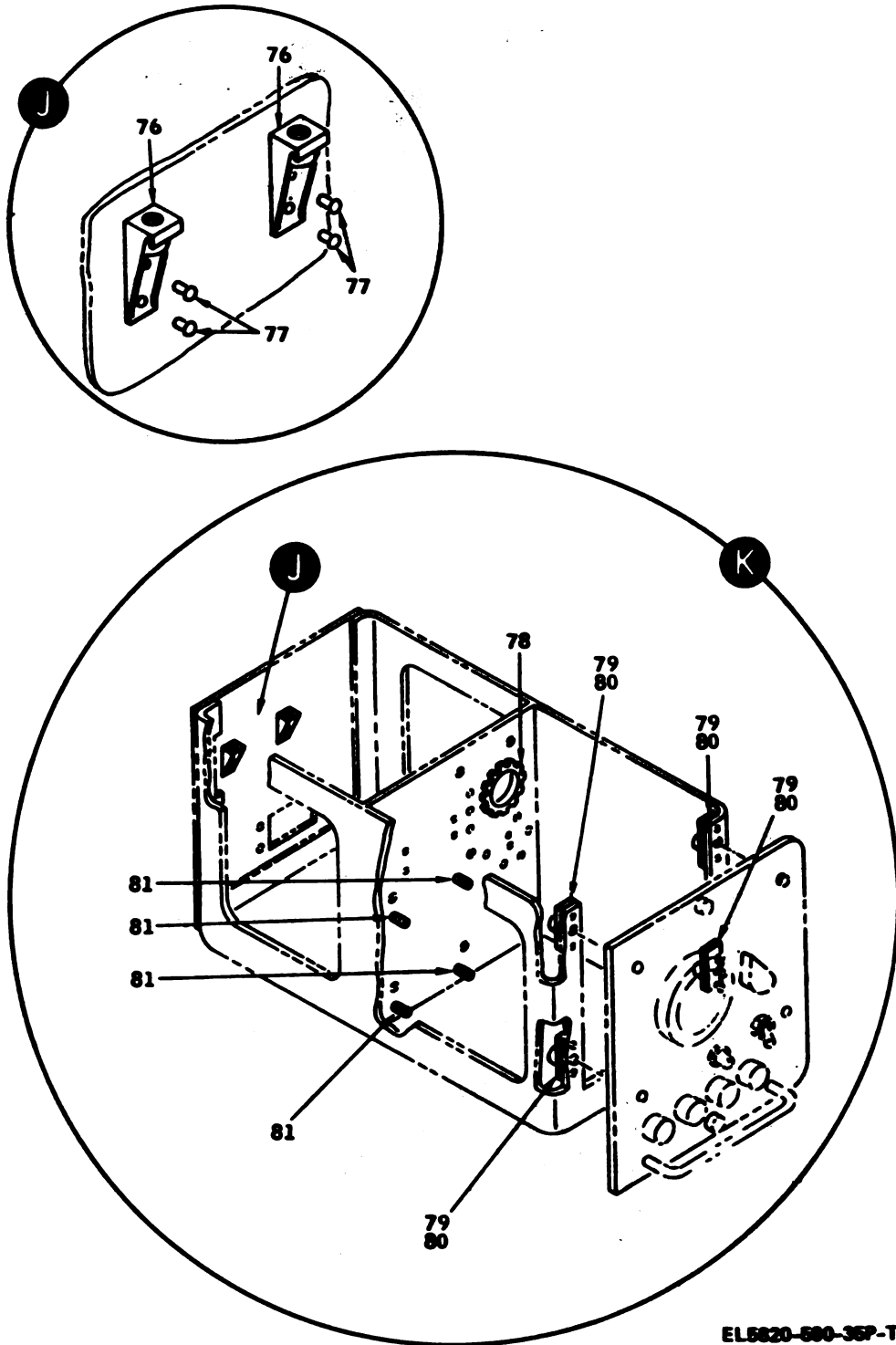
B-180 Change 2



EL5820-500-35P-TM-46 (3)

Figure B-46. Power supply subassembly (PP-4514 only)
(Sheet 3 of 4).

Change 2 B-151



EL5820-690-35P-TM-46 (4)

Figure B-46. Power supply subassembly (PP-4514 only)
(Sheet 4 of 4).

B-152 Change 2

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SAM CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.							
0-47		ANOMD		1541128-102	05869	PONER SUPPLY	ASY	EA 1
0-47	1	PANZZ	5905-00-092-0260	RE6562000	81349	RESISTOR, FIXED, WIRE WOUND	ASY	EA 1
0-47	2	PANZZ	5310-00-012-4294	MS8671C2	80205	NUT, PLAIN, HEXAGON	ASY	EA 2
0-47	3	PANZZ	5310-00-043-4708	MS8620C2	80205	WASHER, FLAT	ASY	EA 2
0-47	4	PANZZ	5310-00-543-4652	MS35333-69	96906	WASHER, LOCK	ASY	EA 2
0-47	5	PANZZ	5305-00-543-2759	MS35233-4	96906	SCREW, MACHINE	ASY	EA 2
0-47	6	PANZZ	5340-00-606-1906	3-0-3	95907	CLAMP, LOOP	ASY	EA 4
0-47	7	PANZZ	5310-00-080-5978	MS15795-807	96906	WASHER, FLAT	ASY	EA 6
0-47	8	PANZZ	5305-00-079-5035	MS24693C50	96906	SCREW, MACHINE	ASY	EA 4
0-47	9	PANZZ	5970-90-046-7471	A167	86928	TERMINAL, LUG	ASY	EA 2
0-47	10	PANZZ	5905-00-901-7369	RM79U1001F	81349	RESISTOR, FIXED, WIRE WOUND	ASY	EA 1
0-47	11	XBNZZ		1598062	05869	PANEL, FRONT PWR SUPPLY	ASY	EA 1
0-47	12	XBNZZ		1020	08145	HANDLE, BOW	ASY	EA 2
0-47	13	PANZZ	5325-00-947-2636	P5282AS1032-6	73197	STUD ASSY	ASY	EA 4
0-47	14	PANZZ	5355-00-556-0145	MS91520-1K20	96906	DIAL CONTROL	ASY	EA 1
0-47	15	XBNZZ		1598059	05869	CHASSIS	ASY	EA 1
0-47	16	PANZZ	5820-00-139-4097	1598063	05869	REGULATOR, PWR-SUPPLY	ASY	EA 1
0-47	17	PANZZ	5310-00-595-6211	MS15795-803	96906	WASHER, FLAT	ASY	EA 11
0-47	18	PANZZ	5305-00-060-6532	MS35233-15	96906	SCREW, MACHINE	ASY	EA 4
0-47	19	PROZZ	5940-00-577-5711	MS25036-3	96906	TERMINAL, LUG	ASY	EA 4
0-47	20	PROZZ	5305-00-709-2010	MS24693C23	96906	SCREW, MACHINE	ASY	EA 2
0-47	21	PANZZ	5340-00-946-9440	C3M	06229	STRAP, RETAINING	ASY	EA 2
0-47	22	PROZZ	5940-00-473-5595	MS	06229	STRAP, RETAINING	ASY	EA 2
0-47	23	PANZZ	5910-00-127-1040	3608226025AC2A	56209	CAPACITOR, FIXED, ELECTROLYTIC	ASY	EA 1
0-47	24	PANZZ	5940-00-644-0713	MS25036-8	96906	TERMINAL, LUG	ASY	EA 1
0-47	25	PANZZ	5340-00-114-5632	1045-1002	10915	CLAMP, LOOP	ASY	EA 2
0-47	26	PANZZ	5310-00-013-3233	MS8679C00M	80205	NUT, SELF-LOCKING, HEXAGON	ASY	EA 18
0-47	27	PANZZ	5310-00-685-3744	AN960C8	81349	WASHER, FLAT	ASY	EA 4
0-47	28	PANZZ	5010-00-999-4172	71C671	99392	CAPACITOR, FIXED, ELECTROLYTIC	ASY	EA 1
0-47	29	XBNZZ		1598564-2	05869	NAMEPLATE, MODULE	ASY	EA 1
0-47	30	PANZZ	5310-00-530-3715	MS35333-70	96906	WASHER, LOCK	ASY	EA 11
0-47	31	PANZZ	5310-00-020-7014	MS8679C04M	80205	NUT, SELF-LOCKING, HEXAGON	ASY	EA 7
0-47	32	PANZZ	5940-00-537-4398	MS25036-48	96906	TERMINAL, LUG	ASY	EA 1
0-47	33	PANZZ	5305-00-543-2766	MS35233-16	96906	SCREW, MACHINE	ASY	EA 4
0-47	34	PANZZ	5035-00-357-1009	SRRA1M26AP1	77820	CONNECTOR, RCPT, ELECTRICAL	ASY	EA 1
0-47	35	PANZZ	5310-00-407-9566	MS35338-45	96906	WASHER, LOCK	ASY	EA 4
0-47	36	PANZZ	5310-00-167-0803	AN960C516	81349	WASHER, FLAT	ASY	EA 4
0-47	37	PANZZ	5030-00-064-0208	212806A1	76854	SWITCH, ROTARY	ASY	EA 1
0-47	38	PANZZ	5310-00-103-4355	AN960C616L	81349	WASHER, FLAT	ASY	EA 1

SECTION II. REPAIR PARTS LIST (CONTINUED)

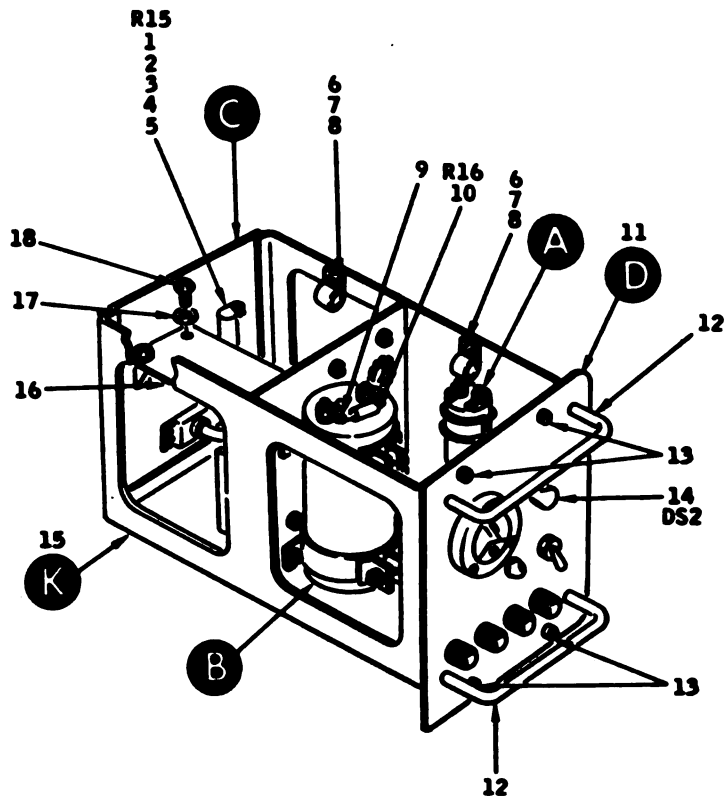
(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNST OF MEAS	(8) QTY INC IN UNST
(A) FIG NO.	(B) ITEM NO.								
B-47	39	PARXX	5340-00-898-9682	3-16-4	95987	CLAMP, LOOP	ASY	EA	3
B-47	40	PARXX	5310-00-584-3782	AB9604L	81349	WASHER, FLAT	ASY	EA	10
B-47	41	PARXX	5305-00-579-3508	NR35216-43	96906	SCREW, MACHINE	ASY	EA	4
B-47	42	PARXX	5940-00-660-3631	NR25036-50	96906	TERMINAL, LUQ	ASY	EA	2
B-47	43	PARXX	6625-00-930-0266	1521	09611	VOLTSMETER	ASY	EA	1
B-47	44	PARXX	5920-00-012-0157	FO2A32V15A	81349	FUSE, CARTRIDGE	ASY	EA	1
B-47	45	PARXX	5920-00-596-0144	FMR200	81349	FUSEHOLDER	ASY	EA	4
B-47	46	PARXX	6210-00-682-9833	NR25256-5	96906	LIGHT, INDICATOR	ASY	EA	1
B-47	47	PARXX	5920-00-557-5033	FO3A250V8A	81349	FUSE, CARTRIDGE	ASY	EA	1
B-47	48	PARXX	5920-00-557-2647	FO2A250V4A	81349	FUSE, CARTRIDGE	ASY	EA	1
B-47	49	PARXX	5940-00-283-5280	NR25036-6	96906	TERMINAL, LUQ	ASY	EA	3
B-47	50	PARXX	5940-00-503-9995	NR25036-1	96906	TERMINAL, LUQ	ASY	EA	8
B-47	51	PARXX	5920-00-280-4960	FO2A250V2A	81349	FUSE, CARTRIDGE	ASY	EA	1
B-47	52	PARXX	5930-00-577-2523	NR25068-24	96906	SWITCH, TOGGLE	ASY	EA	1
B-47	53	PARXX	5340-00-926-5471	A199-3	86928	WASHER, FLAT	ASY	EA	1
B-47	54	PARXX	6240-00-155-7836	NR25237-327	96906	LAMP, INCANDESCENT	ASY	EA	1
B-47	55	PARXX	5940-00-939-5854	722248-52	05869	TERMINAL, STUD	ASY	EA	7
B-47	56	PARXX	5305-00-638-0653	NR35233-14	96906	SCREW, MACHINE	ASY	EA	7
B-47	57	PARXX	5305-00-043-6750	NR35226-63	96906	SCREW, MACHINE	ASY	EA	4
B-47	58	PARXX	5310-00-167-0812	AB960C10L	81349	WASHER, FLAT	ASY	EA	6
B-47	59	PARXX	5310-00-816-1879	NAB679C3M	80205	NUT, SELF-LOCKING, HEXAGON	ASY	EA	6
B-47	60	PARXX	5950-00-944-9885	TK12274	78790	TRACTOR	ASY	EA	1
B-47	61	PARXX	5961-00-995-8625	JAN2H1482	81349	TRANSISTOR	ASY	EA	1
B-47	62	PARXX	5920-00-944-8771	KL7-5-10	94412	PROTECTOR, OVERVOLTAGE	ASY	EA	1
B-47		PARXX	5961-00-067-5691	TKRPO33-0A7	98978	HEATSINK, ELECTRONIC COMPONENT	ASY	EA	1
B-47	64	PARXX	5905-00-061-0739	RM67V101	81349	RESISTOR, FIXED, WIRE WOUND	ASY	EA	1
B-47	65	PARXX	5970-00-006-9804	A368-23	86928	WASHER, NONMETALLIC	ASY	EA	2
B-47	66	PARXX	5970-00-497-9942	A362-30	86928	INSULATOR, BUSHING	ASY	EA	2
B-47	67	PARXX	5970-00-497-9943	A361-3	86928	INSULATOR, WASHER	ASY	EA	2
B-47	68	PARXX	5940-00-849-8394	520	79963	TERMINAL, LUQ	ASY	EA	2
B-47	69	PARXX	5961-00-935-4912	JAN1F3890	81349	SEMICONDUCTOR DEVICE, DIODE	ASY	EA	1
B-47	70	PARXX	5310-00-801-4420	NAB679C06M	80205	NUT, SELF-LOCKING, HEXAGON	ASY	EA	2
B-47	71	PARXX	5310-00-054-0041	NAB620C6L	80205	WASHER, FLAT	ASY	EA	4
B-47	72	PARXX	5970-00-891-1484	FW410-52	05046	INSULATOR, BUSHING	ASY	EA	2
B-47	73	PARXX	5970-00-912-2183	732-734A	08530	INSULATOR, WASHER	ASY	EA	1
B-47	74	PARXX	5940-00-827-2653	NR77068-2	96906	TERMINAL, LUQ	ASY	EA	2
B-47	75	PARXX	5305-00-362-3206	NR51957-30	96906	SCREW, MACHINE	ASY	EA	2
B-47	76	PARXX	5961-00-442-9494	38416	86684	TRANSISTOR	ASY	EA	1
B-47	77	PARXX	5961-00-935-0138	JAN1E1202A	81349	SEMICONDUCTOR DEVICE, DIODE	ASY	EA	1
B-47	78	PARXX	5310-00-193-5249	NP19551-04	75257	NUT, SELF-LOCKING, FLAT	ASY	EA	8

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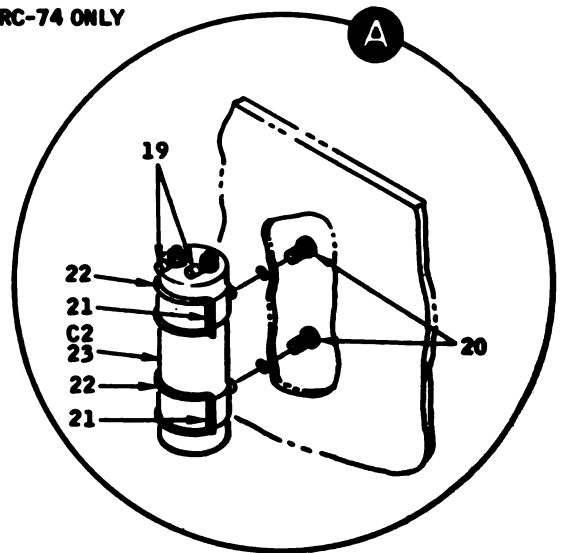
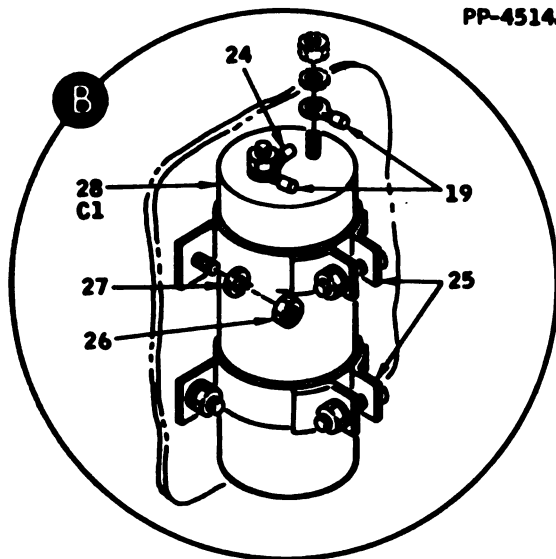
D-154 Change 2

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
(A) FIG NO.	(B) ITEM NO.								
0-47	79	PAHZZ	5320-00-117-6814	MS20470AD3-3	96906	RIVET, SOLID	ASY	EA	8
0-47	80	PAHZZ	9330-00-710-4600	G51MC	03296	GROMMET, PLASTIC	ASY	EA	1
0-47	81	PAHZZ	5320-00-117-6939	MS20426AD3-5	96906	RIVET, SOLID	ASY	EA	8
0-47	82	PAHZZ	5310-00-781-9493	MS21075L06	96906	NUT, SELF-LOCKING, PLATE	ASY	EA	4
0-47	83	PAHZZ	5307-00-974-0535	FHS832-8	46384	STUD, PLAIN	ASY	EA	4

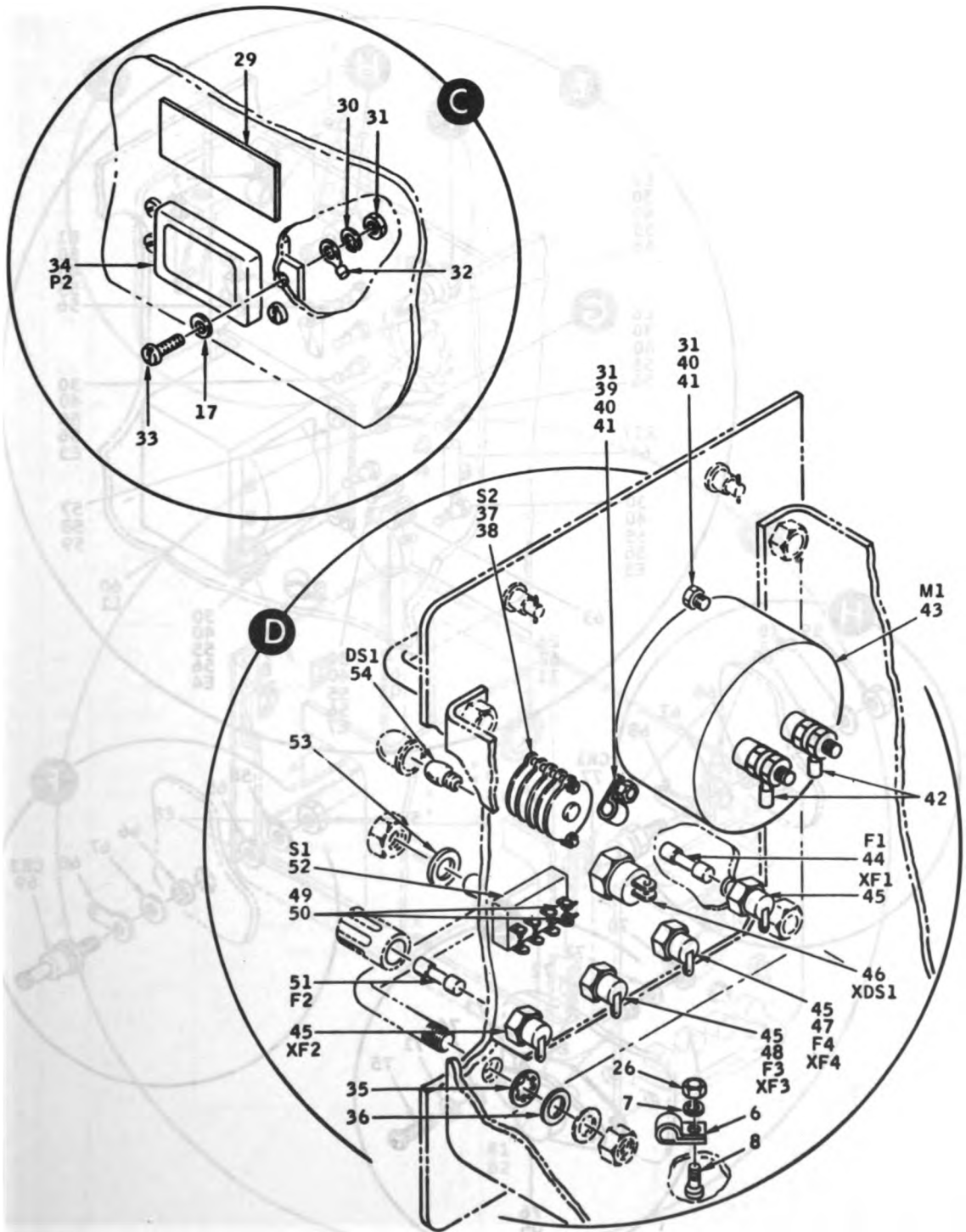


PP-4514A/PRC-74 ONLY



EL5820-000-38P-TM-47 ①

Figure B-47. Power supply subassembly (PP-4514A only) 1
(Sheet 1 of 4).



EL5820-500-35P-TM-47 (2)

Figure B-47. Power supply subassembly (PP-4514A only)
(Sheet 2 of 4).

Change 2 B-157

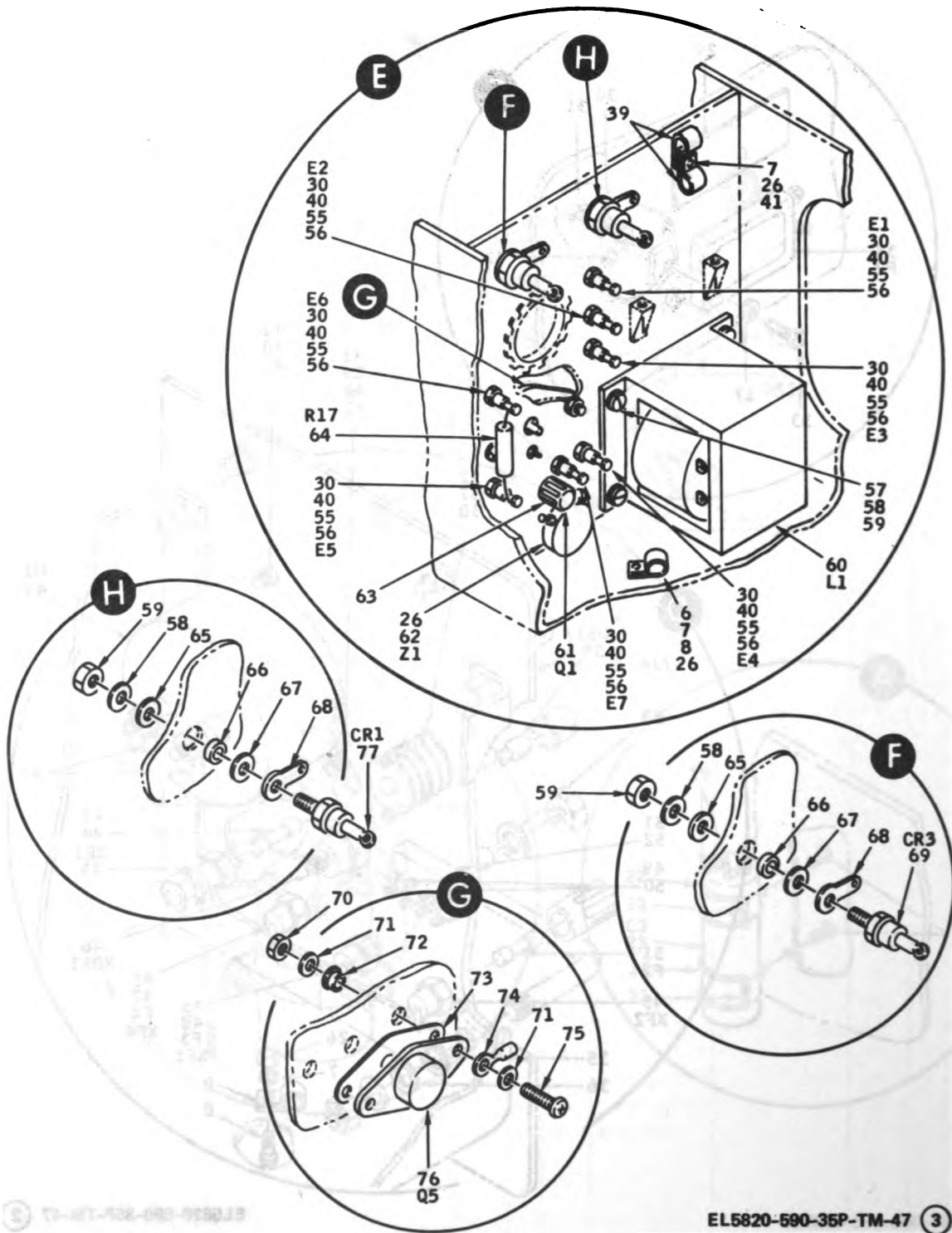
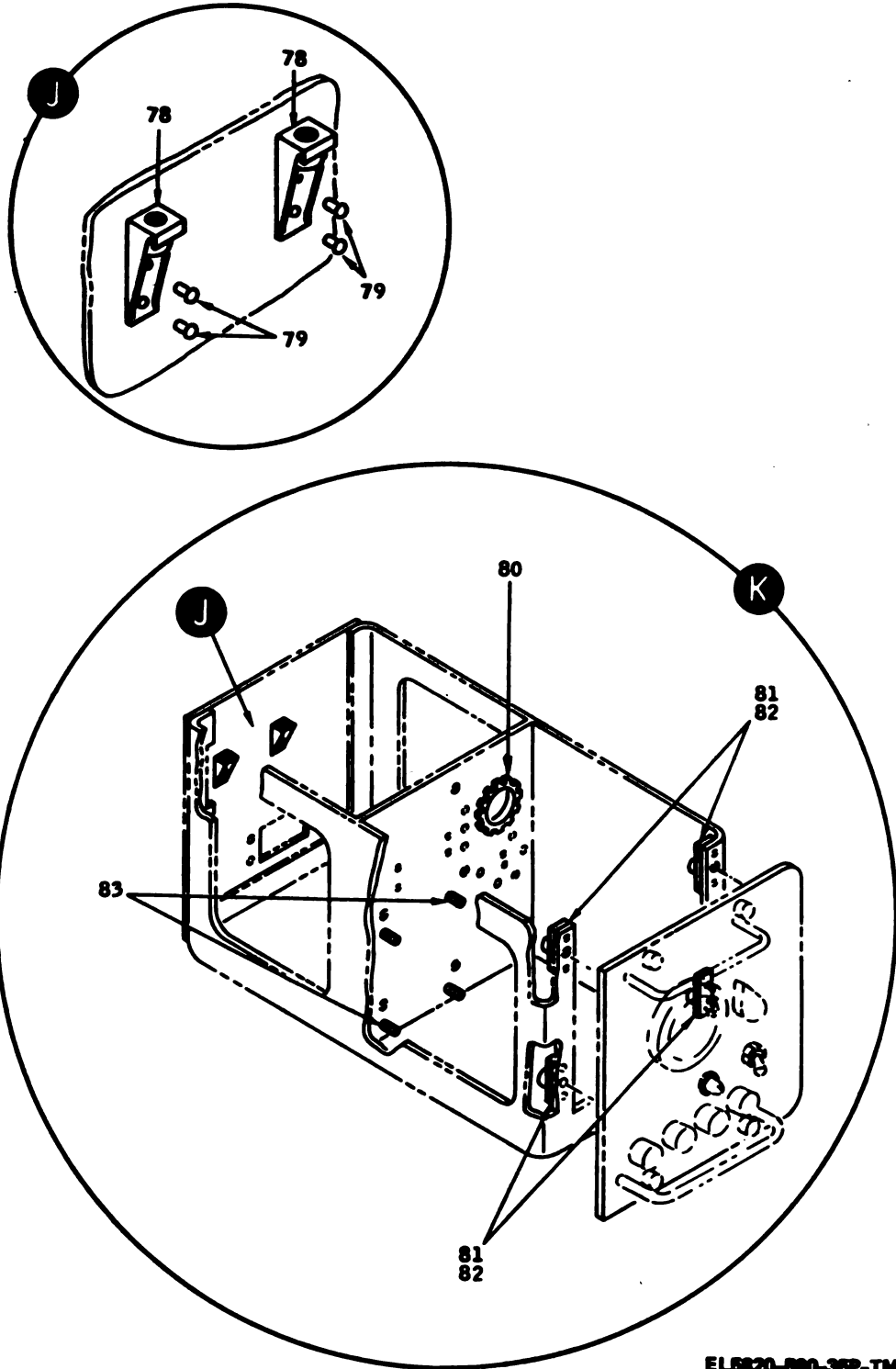


Figure B-47. Power supply subassembly (PP-4514A only)
(Sheet 3 of 4).



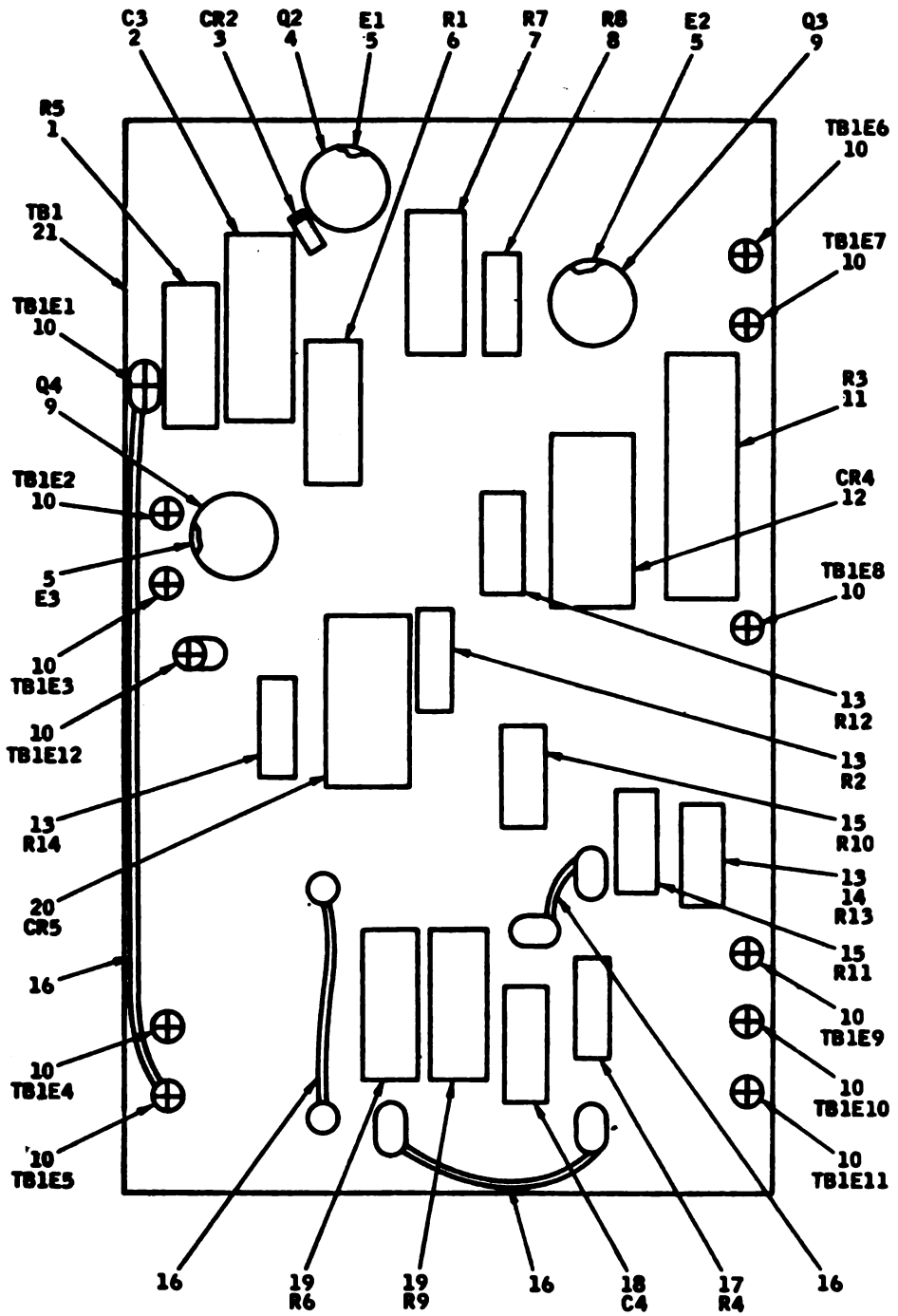
EL5820-600-35P-TM-47 (4)

Figure B-47. Power supply subassembly (PP-4514A only)
(Sheet 4 of 4).

Change 2 B-158

SECTION II REPAIR PARTS LIST (CONTINUED)

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT	
(A) FIG NO.	(B) ITEM NO.									
GROUP: 89818201 POWER SUPPLY REGULATOR										
B-48		PAHZZ	5820-00-139-4898	1592131	05869	RELTR, PWR SUP-UNIV PWR SUPPLY	CHY	EA	1	
B-48		PAHZZ	5820-00-139-4897	1598063	05869	RELTR, PWR SUP-UNIV PWR SUPPLY	ASY	EA	1	
B-48	1	PAHZZ	5905-00-092-0360	RC32GF222J	01349	RESISTOR, FXD, COMPOSITION	CHY	EA	1	
B-48	1	PAHZZ	5905-00-111-0372	RCR32G222JS	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1	
C	0-48	2	PAHZZ	5910-00-880-3709	X663P-100MF10	04411	CAPACITOR, FXD, FILM DIELECTRIC		EA	1
				PCT100V						
B-48	3	PAHZZ	5961-00-042-2064	JAN1N914	01349	SEMICONDUCTOR DEVICE, DIODE		EA	1	
B-48	4	PAHZZ	5961-00-037-7262	JAN2N697	01349	TRANSISTOR		EA	1	
B-48	5	PAHZZ	5970-00-947-1015	10079DAP	07047	INSULATOR, TRANSISTOR		EA	1	
B-48	6	PAHZZ	5905-00-299-2053	RC32GF221J	01349	RESISTOR, FXD, COMPOSITION	CHY	EA	1	
B-48	6	PAHZZ	5905-00-106-1247	RCR32G221JS	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1	
B-48	7	PAHZZ	5905-00-075-1135	RW69V821	01349	RESISTOR, FXD, COMPOSITION		EA	1	
B-48	8	PAHZZ	5905-00-195-6806	RC20GF102J	01349	RESISTOR, FXD, COMPOSITION	CHY	EA	1	
B-48	8	PAHZZ	5905-00-110-0196	RCR20G102JS	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1	
B-48	9	PAHZZ	5961-00-880-4779	JAN2N2905	01349	TRANSISTOR		EA	2	
B-48	11	PAHZZ	5905-00-079-3635	RW67G102	01349	RESISTOR, FXD, WIRE WOUND		EA	1	
B-48	12	PAHZZ	5961-00-078-7660	JAN1N548	01349	SEMICONDUCTOR DEVICE, DIODE		EA	1	
B-48	13	PAHZZ	5905-00-190-0809	RC20GF101J	01349	RESISTOR, FXD, COMPOSITION	CHY	EA	4	
B-48	13	PAHZZ	5905-00-106-9344	RCR20G101JS	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	3	
B-48	14	PAHZZ	5905-00-720-4109	RLR20C601GM	01349	RESISTOR, FIXED	ASY	EA	1	
B-48	15	PAHZZ	5905-00-940-0226	RW65C1892D	01349	RESISTOR, FIXED FILM		EA	2	
B-48	16	PAHZZ	5970-00-029-2339	995057-029	09795	INSULATION, SLEEVING	CHY	EA	1	
B-48	17	PAHZZ	5905-00-103-0510	RC20GF105J	01349	RESISTOR, FXD, COMPOSITION	CHY	EA	1	
B-48	17	PAHZZ	5905-00-141-0991	RCR20G105JS	01349	RESISTOR, FXD, COMPOSITION	ASY	EA	1	
C	0-48	18		5910-00-936-1521	M39003-01-2014	01349	CAPACITOR, FXD, ELECTROLYTIC		EA	1
B-48	19	PAHZZ	5905-00-908-0144	RM70D1001F	01349	RESISTOR, FXD, FILM		EA	2	
B-48	20	PAHZZ	5961-00-752-6121	JAN1N753A	01349	SEMICONDUCTOR DEVICE, DIODE		EA	1	
B-48	21	PAHZZ	5820-00-999-4746	1541114	05869	BOARD, CIRCUIT REGULATOR		EA	1	



EL6820-690-35P-TM-48

Figure B-48. Power supply component panel .

Change 2 B-16i/(162 Blank)

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX

**NOTE: LATEST NATIONAL STOCK NUMBERS AND PART NUMBERS
ARE INCLUDED AT THE END OF THE INDEX**

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
3010-00-137-5861	B-12	52	5305-00-054-5642	B-27	35
3010-00-137-5862	B-12	26	5305-00-054-5647	B-5	33
3010-00-137-5862	B-21	11	5305-00-054-5647	B-7	10
3010-00-999-4829	B-24	12	5305-00-054-5647	B-24	1
3020-00-136-0428	B-27	38			
3040-00-089-9050	B-12	30	5305-00-054-5648	B-7	12
3040-00-089-9050	B-24	13			
3040-00-138-8238	B-27	61	5305-00-054-5648	B-25	41
3120-00-139-6889	B-5	23	5305-00-054-5649	B-21	13
3120-00-139-6889	B-27	5	5305-00-054-5649	B-25	25
3120-00-147-3265	B-27	6	5305-00-054-5651	B-2	29
3120-00-421-1126	B-28	2	5305-00-054-5653	B-24	2
			5305-00-054-6650	B-5	63
4030-00-718-0118	B-28	6			
4820-00-499-9704	B-39	31			
5035-00-943-2174	B-11	17	5305-00-054-6651	B-5	63
5150-00-036-9035	B-42	4	5305-00-054-6651	B-7	3
5305-00-043-6750	B-43	57	5305-00-054-6651	B-28	7
5305-00-043-6750	B-44	52	5305-00-054-6652	B-38	5
5305-00-043-6750	B-46	56	5305-00-054-6654	B-38	5
5305-00-043-6750	B-47	57			
5305-00-043-1628	B-2	20			
5305-00-054-5637	B-16	7	5305-00-054-6655	B-44	68
5305-00-054-5637	B-25	12	5305-00-054-6655	B-46	73
5305-00-054-5637	B-25	35	5305-00-054-6660	B-6	1

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5305-00-054-6667	B-3	31	5305-00-145-5009	B-12	27
5305-00-056-9961	B-43	25	5305-00-147-6140	B-5	1
5305-00-059-3657	B-33	22	5305-00-151-2081	B-5	31
5305-00-059-3659	B-42	60	5305-00-151-3598	B-11	20
5305-06-059-3661	B-42	51	5305-00-174-3885	B-44	19
5305-00-059-3664	B-42	57	5305-00-174-3885	B-46	20
5305-00-066-7326	B-39	3	5305-00-175-3227	B-2	14
5305-00-068-6532	B-42	16	5305-00-253-5607	B-2	14
5305-00-068-6532	B-43	21	5305-00-253-5607	B-38	3
5305-00-068-6532	B-44	17	5305-00-264-2317	B-12	40
5305-00-068-6532	B-46	18	5305-00-269-3694	B-44	9
5305-00-068-6532	B-47	18	5305-00-269-3694	B-46	10
5305-00-068-6533	B-42	70	5305-00-487-6354	B-21	3
5305-00-068-6533	B-44	8	5305-00-487-6354	B-25	41
5305-00-068-6533	B-46	13	5305-00-515-7219	B-42	13
5305-00-068-6534	B-41	17	5305-00-531-9520	B-12	25
5305-00-079-5835	B-43	9	5305-00-531-9521	B-16	7
5305-00-079-5835	B-47	8	5305-00-531-9521	B-21	33
5305-00-115-6128	B-39	37	5305-00-531-9521	B-25	12
5305-00-125-9926	B-39	25	5305-00-531-9521	B-25	35
5305-00-139-7004	B-2	27	5305-00-543-2759	B-43	5
5305-00-140-4889	B-3	28	5305-00-543-2759	B-44	5
5305-00-143-1753	B-27	20	5305-00-543-2759	B-46	5
5305-00-143-1756	B-21	8	5305-00-543-2759	B-47	5
5305-00-145-2190	B-3	13	5305-00-543-2766	B-41	2

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5305-00-543-2766	B-43	36	5305-00-590-3168	B-42	18
5305-00-543-2766	B-47	33	5305-00-616-6231	B-27	30
5305-00-543-2767	B-12	36	5305-00-638-0653	B-43	52
5305-00-543-2767	B-39	13	5305-00-638-0653	B-44	47
5305-00-543-2771	B-21	16	5305-00-638-0653	B-46	53
5305-00-543-2771	B-35	6	5305-00-638-0653	B-47	56
5305-00-543-2777	B-6	1	5305-00-639-0057	B-3	5
5305-00-543-2782	B-3	29	5305-00-639-4777	B-28	7
5305-00-543-5814	B-44	23	5305-00-709-2010	B-43	23
5305-00-550-5001	B-39	8	5305-00-709-2010	B-47	20
5305-00-550-5002	B-2	29	5305-00-764-0064	B-42	51
5305-00-550-5002	B-3	34	5305-00-764-0068	B-44	41
5305-00-550-5002	B-5	33	5305-00-764-0068	B-46	47
5305-00-550-5002	B-7	9	5305-00-777-5977	B-24	11
5305-00-550-5002	B-10	1	5305-00-777-6010	B-12	24
5305-00-550-5002	B-12	43	5305-00-777-6010	B-21	10
5305-00-550-5002	B-24	1	5305-00-806-2363	B-3	16
			5305-00-841-2681	B-41	16
			5305-00-946-2393	B-3	24
			5305-00-954-2724	B-43	16
			5305-00-958-2918	B-39	24
			5305-00-988-7601	B-27	48
5305-00-579-3018	B-27	35	5305-00-988-7606	B-28	4
5305-00-579-3508	B-43	53	5305-00-989-7435	B-42	59
5305-00-579-3508	B-47	41	5305-00-993-1848	B-42	81

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5305-00-993-9189	B-12	20	5310-00-054-0041	B-6	2
5305-00-993-9189	B-21	43	5310-00-054-0041	B-43	69
5305-00-998-0347	B-5	19	5310-00-054-0041	B-44	64
5305-00-998-0347	B-7	2	5310-00-054-0041	B-46	69
5306-00-151-1426	B-42	82	5310-00-054-0041	B-47	71
5307-00-967-8040	B-3	12	5310-00-054-1831	B-5	59
5307-00-974-0535	B-43	79			
5307-00-974-0535	B-44	76			
5307-00-974-0535	B-46	81			
5307-00-974-0535	B-47	83			
5310-00-011-8869	B-23	8			
5310-00-042-9067	B-33	15			
5310-00-043-1754	B-2	21			
5310-00-043-1754	B-5	68	5310-00-058-2950	B-11	16
5310-00-043-1754	B-7	4	5310-00-058-3599	B-12	44
5310-00-043-4708	B-12	19	5310-00-069-5291	B-3	30
5310-00-043-4708	B-13	9	5310-00-071-8875	B-21	45
5310-00-043-4708	B-16	6	5310-00-138-0178	B-10	19
5310-00-043-4708	B-21	41	5310-00-138-0178	B-27	57
5310-00-043-4708	B-25	21	5310-00-167-0797	B-12	34
5310-00-043-4708	B-27	32			
5310-00-043-4708	B-43	3	5310-00-167-0801	B-33	20
5310-00-043-4708	B-44	4	5310-00-167-0801	B-42	73
5310-00-043-4708	B-46	4	5310-00-167-0803	B-43	46
5310-00-043-4708	B-47	3	5310-00-167-0803	B-47	36

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5310-00-167-0812	B-0	25	5310-00-209-1239	B-33	21
5310-00-167-0812	B-42	56	5310-00-209-3990	B-5	17
5310-00-167-0812	B-43	56			
5310-00-167-0812	B-44	51	5310-00-263-2862	B-42	32
5310-00-167-0812	B-46	55	5310-00-268-7306	B-11	15
5310-00-167-0812	B-47	58	5310-00-275-2005	B-3	10
5310-00-183-4355	B-43	40	5310-00-275-2005	B-6	13
5310-00-183-4355	B-46	38	5310-00-407-9566	B-43	45
5310-00-183-4355	B-47	38	5310-00-407-9566	B-47	35
5310-00-193-5249	B-43	76	5310-00-411-4456	B-12	45
5310-00-193-5249	B-44	71	5310-00-471-5119	B-12	3
5310-00-193-5249	B-46	76	5310-00-531-9514	B-3	11
5310-00-193-5249	B-47	78	5310-00-531-9514	B-5	18
5310-00-193-7574	B-12	50	5310-00-531-9514	B-6	12
5310-00-208-3786	B-5	11	5310-00-531-9514	B-42	69
5310-00-208-3786	B-12	58	5310-00-543-2739	B-27	49
5310-00-208-3786	B-21	25	5310-00-543-2739	B-42	24
5310-00-208-3786	B-24	7	5310-00-543-2739	B-44	31
5310-00-208-3786	B-39	17	5310-00-543-2739	B-46	28
5310-00-208-3786	B-42	10	5310-00-543-4652	B-12	33
5310-00-208-3786	B-44	20	5310-00-543-4652	B-16	5
5310-00-208-3786	B-46	31	5310-00-543-4652	B-21	32
5310-00-208-9261	B-10	19	5310-00-543-4652	B-25	13
5310-00-208-9261	B-41	5	5310-00-543-4652	B-25	36
5310-00-208-9261	B-42	28	5310-00-543-4652	B-43	4

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5310-00-543-4652	B-44	3	5310-00-595-6211	B-44	22
5310-00-543-4652	B-46	3	5310-00-595-6211	B-46	34
5310-00-543-4652	B-47	4	5310-00-595-6211	B-47	17
5310-00-543-5933	B-42	78			
5310-00-543-5933	B-44	50	5310-00-596-7981	B-27	64
5310-00-543-5933	B-46	52	5310-00-616-3555	B-42	31
5310-00-550-2329	B-21	9	5310-00-616-3555	B-44	63
5310-00-550-3715	B-2	28	5310-00-616-3555	B-46	68
5310-00-550-3715	B-5	35	5310-00-616-8660	B-5	16
5310-00-550-3715	B-21	26	5310-00-616-8660	B-42	32
5310-00-550-3715	B-42	12	5310-00-632-6721	B-2	30
5310-00-550-3715	B-43	51	5310-00-632-6721	B-40	2
5310-00-550-3715	B-44	46	5310-00-632-6721	B-42	11
5310-00-550-3715	B-46	32	5310-00-638-9857	B-5	64
5310-00-550-3715	B-47	30	5310-00-638-9857	B-7	5
5310-00-558-6207	B-42	20	5310-00-638-9857	B-27	23
5310-00-558-6207	B-46	29	5310-00-638-9857	B-42	69
5310-00-579-0079	B-35	5	5310-00-638-9857	B-44	32
5310-00-582-5677	B-42	79	5310-00-641-6643	B-27	33
5310-00-584-3782	B-42	55	5310-00-680-5270	B-5	13
5310-00-584-3782	B-43	50	5310-00-680-5270	B-7	20
5310-00-584-3782	B-44	16	5310-00-680-5270	B-12	11
5310-00-584-3782	B-46	17	5310-00-685-3744	B-33	16
5310-00-584-3782	B-47	40	5310-00-685-3744	B-42	20
5310-00-595-6211	B-43	20	5310-00-685-3744	B-43	33

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5310-00-685-3744	B-47	27	5310-00-801-4420	B-43	68
5310-00-687-7715	B-12	46	5310-00-801-4420	B-47	70
5310-00-691-2794	B-11	13	5310-00-803-4494	B-42	46
5310-00-720-8549	B-39	6	5310-00-809-8546	B-2	26
5310-00-723-9676	B-2	31	5310-00-809-8546	B-27	37
5310-00-723-9676	B-3	15	5310-00-809-8546	B-27	50
5310-00-723-9676	B-5	9	5310-00-812-4294	B-12	35
5310-00-723-9676	B-7	13	5310-00-812-4294	B-21	40
5310-00-723-9676	B-10	3	5310-00-812-4294	B-25	11
5310-00-723-9676	B-12	6	5310-00-812-4294	B-25	34
5310-00-723-9676	B-21	2	5310-00-812-4294	B-43	2
5310-00-723-9676	B-24	3	5310-00-812-4294	B-44	2
5310-00-723-9676	B-25	42	5310-00-812-4294	B-46	2
5310-00-723-9676	B-39	36	5310-00-812-4294	B-47	2
5310-00-725-4712	B-23	9	5310-00-813-3232	B-42	10
5310-00-728-3493	B-6	24	5310-00-813-3233	B-42	23
5310-00-734-5661	B-39	9	5310-00-813-3233	B-43	7
5310-00-764-9564	B-26	7	5310-00-813-3233	B-47	26
5310-00-764-9564	B-27	4	5310-00-813-6950	B-12	18
5310-00-773-7624	B-41	18	5310-00-816-1879	B-42	54
5310-00-781-9493	B-3	8	5310-00-816-1879	B-43	55
5310-00-781-9493	B-21	22	5310-00-816-1879	B-47	59
5310-00-781-9493	B-39	21	5310-00-819-2624	B-42	62
5310-00-781-9493	B-42	36	5310-00-820-7014	B-43	24
5310-00-781-9493	B-47	82	5310-00-820-7014	B-47	31

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5310-00-837-1381	B-42	23	5310-00-935-9086	B-41	15
5310-00-837-1381	B-44	30	5310-00-939-0849	B-42	28
5310-00-837-1381	B-46	27	5310-00-957-9002	B-3	8
5310-00-839-8767	B-3	6	5310-00-968-3523	B-27	31
5310-00-843-7635	B-12	46	5310-00-978-0133	B-3	3
5310-00-869-4253	B-21	46	5310-00-978-0133	B-21	34
5310-00-878-7111	B-21	44	5310-00-978-0133	B-39	14
5310-00-879-4992	B-42	36	5310-00-982-4988	B-42	80
5310-00-879-4992	B-44	74	5310-00-982-5000	B-39	17
5310-00-879-4992	B-46	79	5310-00-989-0640	B-27	52
5310-00-880-5978	B-43	8	5310-00-993-8511	B-3	1
5310-00-880-5978	B-47	7	5310-00-999-8644	B-12	42
5310-00-891-5551	B-27	31	5310-00-999-8644	B-39	5
5310-00-915-2513	B-5	60	5315-00-811-3439	B-27	17
5310-00-915-2513	B-6	24	5315-00-847-3735	B-39	4
5310-00-929-6395	B-5	68	5315-00-879-5701	B-27	46
5310-00-929-6395	B-7	4	5315-00-934-8536	B-2	9
5310-00-933-8118	B-3	20	5315-00-934-8536	B-40	5
5310-00-933-8118	B-44	21	5320-00-117-6010	B-12	12
5310-00-933-8120	B-5	59	5320-00-117-6815	B-2	8
5310-00-933-8120	B-6	26	5320-00-117-6817	B-40	6
5310-00-934-9761	B-5	61	5320-00-117-6826	B-2	2
5310-00-934-9761	B-44	62	5320-00-117-6936	B-12	47
5310-00-934-9761	B-46	67	5320-00-117-6937	B-3	9
5310-00-934-9765	B-6	28	5320-00-117-6939	B-42	35

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5320-00-117-6939	B-47	81	5325-00-286-6047	B-5	15
5320-00-117-6949	B-2	10	5325-00-286-6047	B-7	26
5320-00-117-7287	B-42	37	5325-00-619-3314	B-21	27
5320-00-233-4781	B-5	14	5325-00-836-8316	B-4	14
5320-00-233-4781	B-7	21	5325-00-903-1512	B-3	18
5320-00-233-4781	B-12	13	5325-00-947-2636	B-43	13
5320-00-584-0672	B-39	23	5325-00-947-2636	B-47	13
5320-00-619-4028	B-42	68	5330-00-138-0057	B-37	5
5320-00-637-5422	B-42	3	5330-00-559-1291	B-27	59
5320-00-641-9476	B-42	37	5330-00-601-5468	B-39	19
5320-00-680-2985	B-39	29	5330-00-827-2820	B-5	5
5320-00-721-5277	B-42	35	5340-00-007-1586	B-16	8
5320-00-721-5277	B-44	75	5340-00-114-5632	B-43	32
5320-00-721-5277	B-46	80	5340-00-114-5632	B-44	29
5320-00-721-8973	B-44	72	5340-00-114-5632	B-46	26
5320-00-721-8973	B-46	77	5340-00-114-5632	B-47	25
5320-00-754-0927	B-40	4	5340-00-136-9971	B-10	8
5320-00-754-0992	B-42	38	5340-00-136-9972	B-42	48
5325-00-137-6745	B-42	67	5340-00-137-3239	B-2	7
5325-00-174-5317	B-5	29	5340-00-137-3239	B-40	1
5325-00-174-5317	B-7	18	5340-00-137-3282	B-2	7
5325-00-174-5317	B-21	27	5340-00-137-3282	B-40	1
5325-00-185-0017	B-5	27	5340-00-137-3343	B-42	52
5325-00-276-6007	B-42	50	5340-00-137-3343	B-42	52
5325-00-282-0629	B-42	30	5340-00-139-0024	B-12	38

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5340-00-141-6944	B-31	5	5340-00-716-6623	B-38	6
5340-00-170-0630	B-21	31	5340-00-753-3456	B-33	8
5340-00-170-0631	B-10	18	5340-00-800-7874	B-42	61
5340-00-200-3036	B-3	37	5340-00-813-6475	B-39	32
5340-00-200-3036	B-43	54	5340-00-815-4929	B-28	15
5340-00-205-6135	B-43	6	5340-00-815-4930	B-28	10
5340-00-242-1580	B-42	38	5340-00-815-4930	B-38	4
5340-00-297-3841	B-28	13	5340-00-817-1161	B-28	5
5340-00-298-6564	B-27	3	5340-00-820-4535	B-31	4
5340-00-334-3228	B-42	39	5340-00-842-5920	B-28	12
5340-00-370-3985	B-42	41	5340-00-878-6197	B-38	6
5340-00-550-5083	B-43	18	5340-00-898-9682	B-47	39
5340-00-558-3003	B-39	30	5340-00-926-5471	B-43	47
5340-00-558-8826	B-38	7	5340-00-926-5471	B-44	43
5340-00-559-6128	B-41	3	5340-00-926-5471	B-46	50
5340-00-597-3302	B-28	14	5340-00-926-5471	B-47	53
5340-00-597-3302	B-38	9	5340-00-926-8162	B-27	10
5340-00-597-3302	B-42	58	5340-00-946-9440	B-43	28
5340-00-606-1906	B-42	1	5340-00-946-9440	B-44	26
5340-00-606-1906	B-43	10	5340-00-946-9440	B-46	21
5340-00-606-1906	B-47	6	5340-00-946-9440	B-47	21
5340-00-619-0214	B-2	1	5340-00-947-9800	B-28	6
5340-00-619-0214	B-39	33	5340-00-955-5388	B-3	26
5340-00-631-7894	B-28	16	5340-00-959-3041	B-6	29
5340-00-663-2123	B-31	6	5340-00-999-4963	B-28	9

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5340-00-999-4963	B-44	11	5820-00-089-7882	B-12	
5340-00-999-4963	B-46	14	5820-00-089-9194	B-22	21
5340-00-999-4964	B-42	53	5820-00-089-9195	B-41	4
5340-00-999-4965	B-42	39	5820-00-089-9196	B-32	4
5355-00-138-0501	B-28	3	5820-00-105-6933	B-46	11
5355-00-444-4619	B-27	58	5820-00-105-6934	B-6	3
5355-00-556-0145	B-46	12	5820-00-105-6935	B-6	17
5355-00-556-0145	B-47	14	5820-00-118-3153	B-27	19
5355-00-579-6390	B-44	12	5820-00-130-9312	B-41	13
5355-00-579-6930	B-43	15	5820-00-130-9324	B-37	4
5355-00-944-4739	B-27	2	5820-00-130-9324	B-40	
5355-00-999-9389	B-27	7	5820-00-131-3667	B-21	28
5365-00-152-5658	B-12	32	5820-00-131-3667	B-22	
5365-00-338-5168	B-40	3	5820-00-131-3668	B-21	6
5470-00-109-8182	B-8	46	5820-00-131-3668	B-23	
5805-00-409-1106	B-32	1	5820-00-135-3598	B-12	37
5820-00-004-8791	B-2	17	5820-00-135-3598	B-18	
5820-00-004-8791	B-24		5820-00-135-3599	B-12	41
5820-00-089-7879	B-2	19	5820-00-135-3599	B-20	
5820-00-089-7879	B-10		5820-00-135-3600	B-12	7
5820-00-089-7880	B-2	18	5820-00-135-3600	B-17	
5820-00-089-7880	B-21		5820-00-135-3601	B-13	8
5820-00-089-7881	B-2	17	5820-00-135-3602	B-12	8
5820-00-089-7881	B-24		5820-00-135-3602	B-13	
5820-00-089-7882	B-2	15	5820-00-135-3603	B-12	1

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5820-00-135-3603	B-15		5820-00-140-7398	B-2	18
5820-00-135-3604	B-12	39	5820-00-140-7398	B-21	
5820-00-135-3604	B-19		5820-00-146-1248	B-10	10
5820-00-139-4879	B-15	29	5820-00-177-1641	B-1	
5820-00-139-4882	B-16	29	5820-00-177-4581	B-1	10
5820-00-139-4883	B-16	37	5820-00-177-4581	B-42	
5820-00-139-4884	B-16	42	5820-00-226-2683	B-39	12
5820-00-139-4888	B-4	15	5820-00-439-4886	B-19	22
5820-00-139-4889	B-8	47	5820-00-464-0125	B-33	19
5820-00-139-4890	B-23	29	5820-00-464-0127	B-28	8
5820-00-139-4892	B-16	59	5820-00-464-0132	B-27	62
5820-00-139-4894	B-18	16	5820-00-832-8210	B-1	4
5820-00-139-4897	B-47	16	5820-00-832-8210	B-33	
5820-00-139-4897	B-48		5820-00-878-7305	B-16	29
5820-00-139-4898	B-46	16	5820-00-878-7314	B-16	42
5820-00-139-4898	B-48		5820-00-878-7316	B-16	37
5820-00-140-7382	B-2	11	5820-00-878-7318	B-16	59
5820-00-140-7382	B-5		5820-00-878-7324	B-23	29
5820-00-140-7395	B-2	12	5820-00-908-3127	B-1	11
5820-00-140-7395	B-7		5820-00-908-3127	B-41	
5820-00-140-7396	B-2	19	5820-00-935-0030	B-1	
5820-00-140-7396	B-10		5820-00-935-0032	B-1	2
5820-00-140-7397	B-2	15	5820-00-935-0032	B-34	
5820-00-140-7397	B-12				

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5820-00-935-5074	B-33	5	5820-00-999-4746	B-48	21
5820-00-942-0500	B-1	5	5820-00-999-6634	B-27	26
5820-00-942-0500	B-35		5820-00-999-7974	B-9	7
5820-00-942-0818	B-1	8	5820-00-999-7975	B-13	18
5820-00-942-0818	B-36		5820-00-999-7976	B-18	16
5820-00-942-0821	B-1	10	5820-00-999-7978	B-15	29
5820-00-942-0821	B-42		5820-00-999-8325	B-2	22
5820-00-942-0844	B-33	18	5825-00-733-7234	B-42	65
5820-00-943-9164	B-27	41	5905-00-061-0739	B-43	62
5820-00-943-9239	B-27	40	5905-00-061-0739	B-44	56
5820-00-943-9240	B-27	24	5905-00-061-0739	B-46	61
5820-00-944-7067	B-17	25	5905-00-061-0739	B-47	64
5820-00-944-8503	B-2	12	5905-00-062-2939	B-44	37
5820-00-944-8503	B-7		5905-00-078-7059	B-21	55
5820-00-944-8504	B-2	11	5905-00-078-7774	B-45	19
5820-00-944-8504	B-5		5905-00-088-3102	B-45	18
5820-00-945-4311	B-25	32	5905-00-089-8750	B-22	15
5820-00-945-4312	B-14	7	5905-00-091-8957	B-43	39
5820-00-945-4313	B-20	22	5905-00-101-2746	B-8	32
5820-00-945-4314	B-19	22	5905-00-102-5627	B-23	5
5820-00-945-4316	B-8	47	5905-00-104-8348	B-45	17
5820-00-945-4318	B-4	15	5905-00-106-1247	B-45	23
5820-00-945-4319	B-33	12	5905-00-106-1247	B-48	6
5820-00-999-4746	B-45	1	5905-00-106-9344	B-45	14
			5905-00-106-9344	B-48	13

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5905-00-110-0196	B-45	9	5905-00-299-2053	B-48	6
5905-00-110-0196	B-48	8	5905-00-400-1702	B-8	17
5905-00-110-0388	B-8	18	5905-00-400-4601	B-45	16
5905-00-111-8372	B-45	2	5905-00-506-8760	B-6	19
5905-00-111-8372	B-48	1	5905-00-506-8851	B-5	53
5905-00-116-8555	B-11	37	5905-00-681-6462	B-4	17
5905-00-139-1724	B-4	8	5905-00-681-6462	B-8	28
5905-00-141-0591	B-48	17	5905-00-681-6462	B-9	15
5905-00-141-0595	B-5	53	5905-00-681-6462	B-11	18
5905-00-141-1132	B-27	70	5905-00-681-6462	B-17	5
5905-00-171-2001	B-21	56	5905-00-681-6462	B-18	7
5905-00-185-8510	B-48	17	5905-00-681-6462	B-19	23
5905-00-190-8883	B-21	55	5905-00-681-6462	B-23	14
5905-00-190-8889	B-5	49	5905-00-681-8818	B-9	28
5905-00-190-8889	B-45	14	5905-00-681-9969	B-8	15
5905-00-190-8889	B-45	14	5905-00-681-9969	B-25	30
5905-00-190-8889	B-48	13	5905-00-681-9970	B-19	11
5905-00-192-3973	B-6	20	5905-00-682-4083	B-8	7
5905-00-195-6806	B-45	9	5905-00-682-4097	B-4	1
5905-00-195-6806	B-48	8	5905-00-682-4097	B-8	10
5905-00-279-1692	B-6	19	5905-00-682-4097	B-9	24
5905-00-279-1745	B-45	16	5905-00-682-4101	B-8	32
5905-00-279-2661	B-5	53	5905-00-682-4101	B-27	70
5905-00-279-3506	B-45	17	5905-00-682-4107	B-10	11
5905-00-299-2053	B-45	23	5905-00-682-4107	B-23	19

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5905-00-682-4108	B-8	29	5905-00-683-2246	B-4	18
5905-00-682-4108	B-25	3	5905-00-683-2246	B-11	34
5905-00-682-4109	B-8	24	5905-00-683-2246	B-17	23
5905-00-683-2235	B-8	16	5905-00-683-2246	B-19	21
5905-00-683-2235	B-9	26	5905-00-683-7720	B-8	26
5905-00-683-2236	B-11	30	5905-00-683-7720	B-11	9
5905-00-683-2236	B-20	1	5905-00-683-7720	B-24	23
5905-00-683-2238	B-8	14	5905-00-683-7720	B-25	16
5905-00-683-2238	B-9	13	5905-00-683-7721	B-8	25
5905-00-683-2238	B-15	19	5905-00-683-7721	B-11	29
5905-00-683-2238	B-16	14	5905-00-683-7721	B-23	22
5905-00-683-2238	B-20	10	5905-00-683-7721	B-24	25
5905-00-683-2239	B-15	24	5905-00-683-7721	B-25	5
5905-00-683-2239	B-19	14	5905-00-683-7723	B-7	15
5905-00-683-2239	B-20	19	5905-00-683-7723	B-9	11
5905-00-683-2241	B-8	1	5905-00-683-7726	B-22	10
5905-00-683-2242	B-8	31	5905-00-686-3119	B-8	30
5905-00-683-2242	B-9	33	5905-00-686-3119	B-25	28
5905-00-683-2242	B-15	6	5905-00-686-3122	B-8	27
5905-00-683-2242	B-16	15	5905-00-686-3122	B-19	13
5905-00-683-2242	B-17	22	5905-00-686-3128	B-11	10
5905-00-683-2242	B-19	18	5905-00-686-3128	B-22	12
5905-00-683-2242	B-20	21	5905-00-686-3129	B-8	18
5905-00-683-2242	B-25	31	5905-00-686-3368	B-9	18
5905-00-683-2243	B-25	38	5905-00-686-3368	B-17	16

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SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5905-00-686-3368	B-18	8	5905-00-726-9811	B-6	20
5905-00-686-3368	B-19	20	5905-00-727-8001	B-9	34
5905-00-686-3369	B-4	16	5905-00-728-4199	B-48	14
5905-00-686-3370	B-9	30	5905-00-728-6124	B-22	16
5905-00-686-3798	B-9	12	5905-00-728-6132	B-9	28
5905-00-686-3838	B-4	10	5905-00-728-6132	B-11	37
5905-00-686-3838	B-15	28	5905-00-728-6136	B-11	24
5905-00-686-3838	B-16	24	5905-00-728-6136	B-23	21
5905-00-686-3838	B-18	9	5905-00-728-6138	B-9	32
5905-00-686-3903	B-9	19	5905-00-728-6138	B-25	6
5905-00-686-9997	B-11	23	5905-00-728-6139	B-4	7
5905-00-686-9998	B-19	12	5905-00-728-6139	B-8	22
5905-00-687-0000	B-8	13	5905-00-728-6141	B-4	12
5905-00-687-0000	E-11	11	5905-00-728-6141	B-17	12
5905-00-687-0002	B-4	12	5905-00-728-6151	B-4	16
5905-00-687-0002	B-17	12	5905-00-728-6153	B-9	19
5905-00-688-3738	B-11	24	5905-00-734-0804	B-4	17
5905-00-688-3738	B-23	21	5905-00-734-0804	B-8	28
5905-00-723-5251	B-4	7	5905-00-734-0804	B-9	15
5905-00-723-5251	B-8	22	5905-00-734-0804	B-11	18
5905-00-725-6995	B-11	26	5905-00-734-0804	B-17	5
5905-00-725-6995	B-23	3	5905-00-734-0804	B-18	7
5905-00-725-6995	B-25	29	5905-00-734-0804	B-19	23
5905-00-726-4413	B-20	15	5905-00-734-0804	B-23	14
5905-00-726-9758	B-5	49	5905-00-734-1003	B-8	14

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5905-00-734-1003	B-9	13	5905-00-754-7892	B-18	9
5905-00-734-1003	B-15	19	5905-00-755-8389	B-16	19
5905-00-734-1003	B-16	14	5905-00-755-8389	B-20	14
5905-00-734-1003	B-20	10	5905-00-758-5223	B-25	38
5905-00-734-1021	B-7	15	5905-00-758-5230	B-11	26
5905-00-734-1035	B-23	24	5905-00-758-5230	B-23	3
5905-00-734-1036	B-8	15	5905-00-758-5230	B-25	29
5905-00-734-1036	B-25	30	5905-00-763-4056	B-11	32
5905-00-734-1045	B-8	31	5905-00-763-4056	B-23	17
5905-00-734-1045	B-9	33	5905-00-763-4058	B-8	16
5905-00-734-1045	B-15	6	5905-00-763-4058	B-9	26
5905-00-734-1045	B-16	15	5905-00-763-4061	B-9	34
5905-00-734-1045	B-17	22	5905-00-764-2180	B-8	25
5905-00-734-1045	B-19	18	5905-00-764-2180	B-11	29
5905-00-734-1045	B-20	21	5905-00-764-2180	B-23	22
5905-00-734-1045	B-25	31	5905-00-764-2180	B-24	25
5905-00-734-1046	B-19	12	5905-00-764-2180	B-25	5
5905-00-734-1062	B-11	23	5905-00-764-2186	B-8	1
5905-00-734-1150	B-19	11	5905-00-764-2186	B-9	11
5905-00-739-5004	B-8	30	5905-00-764-2472	B-8	29
5905-00-739-5004	B-25	28	5905-00-764-2472	B-25	3
5905-00-754-7891	B-20	15	5905-00-764-2479	B-8	26
5905-00-754-7892	B-4	10	5905-00-764-2479	B-11	9
5905-00-754-7892	B-15	28	5905-00-764-2479	B-24	23
5905-00-754-7892	B-16	24	5905-00-764-2479	B-25	16

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5905-00-764-2481	B-8	24	5905-00-780-8234	B-9	12
5905-00-764-2494	B-22	9	5905-00-780-8236	B-9	29
5905-00-764-2772	B-15	24	5905-00-781-7123	B-23	5
5905-00-764-2772	B-19	14	5905-00-801-2377	B-8	8
5905-00-764-2772	B-20	19	5905-00-801-8272	B-9	21
5905-00-764-2773	B-9	30	5905-00-803-2908	B-9	29
5905-00-764-2775	B-8	27	5905-00-806-0636	B-11	32
5905-00-764-2775	B-19	13	5905-00-806-0636	B-23	17
5905-00-764-2776	B-4	1	5905-00-807-0059	B-9	22
5905-00-764-2776	B-8	10	5905-00-808-6135	B-23	24
5905-00-764-2776	B-9	24	5905-00-811-8479	B-22	10
5905-00-764-2784	B-9	21	5905-00-813-5618	B-21	56
5905-00-772-9398	B-8	8	5905-00-814-6280	B-11	10
5905-00-773-0769	B-16	19	5905-00-814-6280	B-22	12
5905-00-773-0769	B-20	14	5905-00-817-7971	B-22	16
5905-00-773-0881	B-11	30	5905-00-825-5592	B-25	27
5905-00-773-0881	B-20	1	5905-00-851-5172	B-43	26
5905-00-773-0914	B-9	22	5905-00-851-5172	B-44	24
5905-00-773-1868	B-8	13	5905-00-878-7275	B-43	1
5905-00-773-1868	B-11	11	5905-00-878-7275	B-44	1
5905-00-774-8119	B-9	4	5905-00-879-3655	B-45	12
5905-00-776-6212	B-19	21	5905-00-879-3635	B-48	11
5905-00-776-7212	B-4	18	5905-00-879-4956	B-11	19
5905-00-776-7212	B-11	34	5905-00-887-9762	B-25	27
5905-00-776-7212	B-17	23	5905-00-887-9763	B-9	18

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5905-00-887-9763	B-17	16	5905-00-988-0144	B-48	19
5905-00-887-9763	B-18	8	5905-00-988-3019	B-27	73
5905-00-887-9763	B-19	20	5905-00-989-9362	B-5	48
5905-00-889-1706	B-8	7	5905-00-994-6676	B-21	52
5905-00-890-4232	B-10	11	5905-00-994-6676	B-23	2
5905-00-890-4232	B-23	19	5910-00-021-8075	B-9	6
5905-00-892-0260	B-46	1	5910-00-036-8864	B-4	9
5905-00-892-0260	B-47	1	5910-00-044-4016	B-26	5
5905-00-892-0360	B-45	2	5910-00-044-6140	B-5	43
5905-00-892-0360	B-48	1	5910-00-057-3931	B-17	18
5905-00-892-6941	B-9	32	5910-00-057-3931	B-18	11
5905-00-892-6941	B-25	6	5910-00-064-4694	B-16	36
5905-00-901-7369	B-43	17	5910-00-068-4298	B-8	19
5905-00-901-7369	B-44	13	5910-00-068-4298	B-9	23
5905-00-901-7369	B-46	7	5910-00-068-4298	B-11	27
5905-00-901-7369	B-47	10	5910-00-068-4475	B-27	68
5905-00-933-9782	B-5	40	5910-00-082-5032	B-26	19
5905-00-939-3886	B-9	8	5910-00-082-5033	B-11	12
5905-00-948-0226	B-48	15	5910-00-109-0653	B-5	46
5905-00-948-6489	B-5	37	5910-00-109-0653	B-8	4
5905-00-951-7734	B-27	54	5910-00-109-0653	B-12	21
5905-00-975-1135	B-45	7	5910-00-109-0653	B-21	54
5905-00-975-1135	B-48	7	5910-00-109-0653	B-22	1
5905-00-978-7703	B-22	17	5910-00-109-0653	B-23	1
5905-00-984-3915	B-4	6	5910-00-124-4962	B-13	16

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5910-00-124-4962	B-16	12	5910-00-760-6878	B-8	12
5910-00-192-2406	B-12	55	5910-00-760-6878	B-11	31
5910-00-255-2270	B-25	14	5910-00-760-6878	B-15	7
5910-00-255-4054	B-11	38	5910-00-760-6878	B-17	14
5910-00-267-9471	B-17	1	5910-00-760-6878	B-19	1
5910-00-431-5335	B-4	13	5910-00-763-6748	B-16	41
5910-00-431-5335	B-8	21	5910-00-763-6761	B-16	35
5910-00-431-5335	B-9	5	5910-00-764-2540	B-11	36
5910-00-431-5335	B-25	1	5910-00-782-1974	B-5	43
5910-00-460-0870	B-11	12	5910-00-787-2109	B-8	19
5910-00-465-7871	B-6	21	5910-00-824-3976	B-5	44
5910-00-469-5621	B-11	36	5910-00-844-5809	B-18	1
5910-00-478-4391	B-21	20	5910-00-857-9192	B-15	4
5910-00-478-4392	B-13	16	5910-00-857-9192	B-16	25
5910-00-478-4392	B-16	12	5910-00-857-9192	B-17	19
5910-00-484-7150	B-9	14	5910-00-857-9192	B-18	6
5910-00-577-1348	B-42	21	5910-00-857-9192	B-20	9
5910-00-615-5472	B-18	10	5910-00-857-9192	B-21	38
5910-00-615-5472	B-20	2	5910-00-857-9192	B-22	3
5910-00-615-5472	B-26	18	5910-00-857-9192	B-23	12
5910-00-617-3764	B-11	7	5910-00-850-5178	B-4	11
5910-00-649-2917	B-8	23	5910-00-863-5399	B-12	16
5910-00-683-3152	B-25	37	5910-00-878-5733	B-9	27
5910-00-683-3152	B-26	16	5910-00-879-4970	B-16	16
5910-00-758-5646	B-6	11	5910-00-880-3709	B-45	3

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5910-00-880-3709	B-48	2	5910-00-936-1357	B-6	22
5910-00-880-4163	B-4	11	5910-00-936-1521	B-45	21
5910-00-880-5430	B-8	11	5910-00-936-1521	B-48	18
5910-00-880-5432	B-8	33	5910-00-942-0240	B-21	51
5910-00-880-7240	B-8	20	5910-00-944-9844	B-24	6
5910-00-882-3775	B-19	5	5910-00-945-0006	B-4	9
5910-00-882-3775	B-24	28	5910-00-945-0006	B-17	24
5910-00-892-3125	B-8	9	5910-00-945-0006	B-22	7
5910-00-892-3125	B-25	17	5910-00-945-0009	B-15	25
5910-00-893-5179	B-5	44	5910-00-945-0009	B-16	21
5910-00-893-6745	B-8	5	5910-00-945-1861	B-26	9
5910-00-893-6745	B-16	13	5910-00-946-6784	B-23	27
5910-00-893-6745	B-23	18	5910-00-947-6563	B-12	54
5910-00-893-8419	B-9	25	5910-00-954-5508	B-26	22
5910-00-894-0734	B-12	56	5910-00-990-6745	B-26	4
5910-00-894-0734	B-16	38	5910-00-999-4172	B-43	30
5910-00-894-0734	B-17	2	5910-00-999-4172	B-44	28
5910-00-897-6221	B-7	24	5910-00-999-4172	B-47	28
5910-00-900-5296	B-11	38	5910-00-999-4712	B-46	24
5910-00-901-9465	B-45	8	5910-00-999-7767	B-15	20
5910-00-902-0335	B-26	2	5910-00-999-7767	B-16	40
5910-00-904-4876	B-26	3	5910-00-999-7767	B-22	4
5910-00-905-6425	B-26	3	5910-00-999-7768	B-11	25
5910-00-926-2362	B-16	33	5910-00-999-7768	B-17	17
5910-00-926-2362	B-19	3	5910-00-999-7768	B-18	2

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5910-00-999-7769	B-15	26	5920-00-556-0144	B-43	42
5910-00-999-7769	B-16	34	5920-00-556-0144	B-44	39
5910-00-999-7770	B-16	32	5920-00-556-0144	B-46	41
5910-00-999-7770	B-17	8	5920-00-556-0144	B-47	45
5910-00-999-7771	B-8	3	5920-00-557-2647	B-46	45
5910-00-999-7773	B-17	7	5920-00-557-2647	B-47	48
5910-00-999-9587	B-43	27	5920-00-557-5033	B-46	43
5910-00-999-9587	B-44	25	5920-00-557-5033	B-47	47
5910-00-999-9587	B-46	23	5920-00-944-8771	B-46	59
5910-00-999-9587	B-47	23	5920-00-944-8771	B-47	62
5915-00-478-4393	B-7	17	5930-00-080-5636	B-14	15
5915-00-879-4971	B-20	3	5930-00-577-2523	B-46	49
5915-00-944-4834	B-7	17	5930-00-577-2523	B-47	52
5920-00-012-0157	B-46	40	5930-00-583-6582	B-27	36
5920-00-012-0157	B-47	44	5930-00-646-4619	B-27	37
5920-00-133-5400	B-43	59	5930-00-655-1575	B-43	43
5920-00-133-5400	B-44	54	5930-00-655-1575	B-44	42
5920-00-142-7421	B-5	12	5930-00-720-3004	B-24	26
5920-00-243-3681	B-5	6	5930-00-758-5461	B-13	3
5920-00-280-4960	B-46	48	5930-00-864-6268	B-46	37
5920-00-280-4960	B-47	51	5930-00-864-6268	B-47	37
5920-00-284-6797	B-42	64	5930-00-878-5048	B-27	34
5920-00-498-5937	B-5	7	5930-00-879-4963	B-16	3
5920-00-548-3126	B-43	41	5930-00-944-2424	B-27	15
5920-00-548-3126	B-44	38	5930-00-945-0135	B-13	2

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5935-00-073-3380	B-31	28	5935-00-944-9848	B-5	4
5935-00-258-0598	B-31	25	5935-00-944-9857	B-10	15
5935-00-259-1084	B-31	12	5935-00-944-9857	B-20	7
5935-00-490-5091	B-39	18	5935-00-944-9857	B-23	26
5935-00-497-5807	B-5	3	5935-00-945-0001	B-25	18
5935-00-497-5827	B-7	25	5935-00-945-6384	B-42	29
5935-00-557-1009	B-47	34	5935-00-946-0079	B-42	27
5935-00-578-3494	B-33	3	5935-00-946-9144	B-25	7
5935-00-642-4237	B-31	22	5935-00-963-0124	B-2	25
5935-00-725-1345	B-42	17			
5935-00-729-8478	B-42	14	5935-00-963-0124	B-23	26
5935-00-811-8592	B-43	37	5935-00-989-7064	B-46	35
5935-00-811-8592	B-44	35	5935-00-992-2035	B-32	5
5935-00-832-6775	B-27	25	5935-00-999-6713	B-25	7
5935-00-843-7362	B-31	9	5940-00-051-5712	B-3	25
5935-00-856-7980	B-31	14	5940-00-126-2551	B-21	47
5935-00-878-7485	B-39	7	5940-00-159-1562	B-7	6
5935-00-879-7402	B-31	3	5940-00-168-9691	B-10	13
5935-00-911-6184	B-25	18	5940-00-168-9691	B-21	4
5935-00-932-2864	B-33	10	5940-00-168-9691	B-25	40
5935-00-933-9403	B-10	16	5940-00-168-9691	B-29	1
5935-00-937-6278	B-2	23	5940-00-168-9692	B-5	25
5935-00-937-6278	B-10	16	5940-00-168-9692	B-7	30
5935-00-937-8297	B-7	25	5940-00-168-9692	B-27	12
5935-00-943-6910	B-42	15	5940-00-168-9692	B-29	3

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5940-00-201-2849	B-7	6	5940-00-557-1627	B-42	25
5940-00-204-8350	B-31	26	5940-00-557-1629	B-42	22
5940-00-220-9775	B-31	15	5940-00-557-4398	B-43	35
5940-00-229-7550	B-21	14	5940-00-557-4398	B-44	34
5940-00-235-0081	B-11	3	5940-00-557-4398	B-46	33
5940-00-271-4030	B-15	21	5940-00-557-4398	B-47	32
5940-00-271-4030	B-16	20	5940-00-577-3711	B-43	22
5940-00-271-4030	B-17	11	5940-00-577-3711	B-44	18
5940-00-271-4030	B-18	4	5940-00-577-3711	B-46	19
5940-00-271-4030	B-19	4	5940-00-577-3711	B-47	19
5940-00-283-5280	B-35	4	5940-00-577-3807	B-21	14
5940-00-283-5280	B-43	44	5940-00-583-7741	B-6	27
5940-00-283-5280	B-44	40	5940-00-606-7013	B-35	3
5940-00-283-5280	B-46	46	5940-00-636-5429	B-5	36
5940-00-283-5280	B-47	49	5940-00-644-8713	B-41	7
5940-00-405-9180	B-21	15	5940-00-644-8713	B-46	25
5940-00-463-7270	B-11	4	5940-00-644-8713	B-47	24
5940-00-473-5595	B-43	29	5940-00-660-3631	B-42	19
5940-00-473-5595	B-44	27	5940-00-660-3631	B-46	39
5940-00-473-5595	B-46	22	5940-00-660-3631	B-47	42
5940-00-473-5595	B-47	22	5940-00-665-5749	B-5	36
5940-00-495-1202	B-6	15	5940-00-680-9964	B-5	30
5940-00-497-8565	B-6	15	5940-00-682-2477	B-21	42
5940-00-503-9995	B-46	44	5940-00-682-2477	B-24	16
5940-00-503-9995	B-47	50	5940-00-726-9525	B-12	53

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5940-00-728-9988	B-27	29	5940-00-939-5854	B-46	51
5940-00-784-4989	B-3	27	5940-00-939-5854	B-47	55
5940-00-811-3407	B-27	13	5940-00-943-9160	B-16	27
5940-00-820-4549	B-5	34	5940-00-949-3096	B-3	36
5940-00-827-2653	B-43	72	5940-00-949-3097	B-21	1
5940-00-827-2653	B-44	67	5940-00-949-3100	B-25	39
5940-00-827-2653	B-46	72	5940-00-949-3101	B-10	12
5940-00-827-2653	B-47	74	5940-00-957-4929	B-27	10
5940-00-849-8394	B-5	57	5940-00-999-4830	B-27	8
5940-00-849-8394	B-42	75	5945-00-089-9130	B-21	39
5940-00-849-8394	B-43	66	5945-00-721-3805	B-8	35
5940-00-849-8394	B-44	60	5945-00-915-1052	B-8	46
5940-00-849-8394	B-46	65	5945-00-930-0412	B-5	22
5940-00-849-8394	B-47	68	5945-00-999-8715	B-25	10
5940-00-879-3763	B-33	23	5950-00-011-4381	B-26	21
5940-00-903-3112	B-12	23	5950-00-044-4652	B-8	44
5940-00-905-0063	B-5	38	5950-00-279-3521	B-22	9
5940-00-912-9993	B-11	5	5950-00-497-5774	B-8	44
5940-00-921-3300	B-21	48	5950-00-497-5777	B-25	33
5940-00-921-6450	B-5	45	5950-00-497-5778	B-8	36
5940-00-926-2478	B-3	19	5950-00-497-5779	B-8	45
5940-00-926-8162	B-27	8	5950-00-497-5780	B-8	42
5940-00-935-8334	B-32	2	5950-00-497-5781	B-17	20
5940-00-939-5854	B-43	49	5950-00-497-5784	B-18	3
5940-00-939-5854	B-44	45	5950-00-497-5785	B-18	13

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5950-00-497-5787	B-16	22	5950-00-727-2680	B-12	31
5950-00-497-5788	B-26	1	5950-00-727-2680	B-17	21
5950-00-497-5790	B-26	27	5950-00-727-2680	B-22	11
5950-00-497-5791	B-26	8	5950-00-758-5294	B-6	14
5950-00-497-5792	B-26	10	5950-00-802-3607	B-15	5
5950-00-497-5793	B-26	25	5950-00-820-5477	B-11	1
5950-00-497-5794	B-26	11	5950-00-827-8693	B-23	13
5950-00-497-5795	B-26	12	5950-00-878-5802	B-21	21
5950-00-497-5798	B-26	24	5950-00-878-5803	B-21	33
5950-00-497-5800	B-26	23	5950-00-878-9669	B-9	20
5950-00-497-5801	B-26	14	5950-00-879-6077	B-26	1
5950-00-497-5802	B-26	21	5950-00-879-6079	B-26	27
5950-00-497-5803	B-26	20	5950-00-879-6080	B-26	8
5950-00-497-5804	B-26	15	5950-00-879-6081	B-26	26
5950-00-497-5805	B-26	17	5950-00-879-6082	B-26	25
5950-00-497-7703	B-8	40	5950-00-879-6083	B-26	11
5950-00-627-0319	B-21	21	5950-00-879-6084	B-26	24
5950-00-688-7287	B-22	8	5950-00-879-6090	B-26	23
5950-00-703-0907	B-12	59	5950-00-879-6091	B-26	13
5950-00-703-0907	B-16	26	5950-00-879-6096	B-26	15
5950-00-703-0907	B-19	6	5950-00-879-6097	B-26	17
5950-00-704-1993	B-12	10	5950-00-879-6104	B-26	10
5950-00-720-2706	B-26	26	5950-00-879-6109	B-26	12
5950-00-726-6756	B-12	15	5950-00-879-6133	B-26	14
5950-00-726-6756	B-18	12	5950-00-879-6140	B-26	20

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5950-00-879-6141	B-21	59	5950-00-945-3754	B-19	16
5950-00-902-4812	B-11	33	5950-00-945-3754	B-20	20
5950-00-913-1967	B-21	58	5950-00-946-5371	B-18	3
5950-00-921-3418	B-8	2	5950-00-946-5372	B-18	13
5950-00-921-3418	B-9	31	5950-00-947-3141	B-17	20
5950-00-921-3418	B-23	6	5950-00-983-5369	B-22	8
5950-00-921-3418	B-25	15	5950-00-999-4825	B-25	33
5950-00-926-3127	B-15	5	5955-00-137-4234	B-14	3
5950-00-926-3128	B-23	13	5955-00-137-4235	B-14	9
5950-00-926-3131	B-25	4	5955-00-139-4233	B-16	47
5950-00-932-4480	B-11	8	5955-00-173-1387	B-16	58
5950-00-937-7140	B-6	18	5955-00-173-1390	B-14	4
5950-00-944-4644	B-8	42	5955-00-497-5786	B-15	27
5950-00-944-4650	B-8	45	5955-00-497-5813	B-13	11
5950-00-944-4651	B-8	36	5955-00-497-5823	B-15	11
5950-00-944-4653	B-15	27	5955-00-497-5824	B-15	16
5950-00-944-4654	B-19	2	5955-00-497-5825	B-15	18
5950-00-944-4655	B-16	22	5955-00-497-5826	B-14	1
5950-00-944-4768	B-19	8	5955-00-497-5826	B-15	10
5950-00-944-9884	B-42	4	5955-00-497-5826	B-16	53
5950-00-944-9885	B-43	58	5955-00-497-7697	B-15	17
5950-00-944-9885	B-44	48	5955-00-497-7700	B-15	12
5950-00-944-9885	B-46	57	5955-00-497-7701	B-15	14
5950-00-944-9885	B-47	60	5955-00-497-7702	B-15	15
5950-00-945-3752	B-20	16	5955-00-499-7320	B-15	9

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5955-00-499-7322	B-16	46	5955-00-944-4666	B-13	5
5955-00-499-7323	B-16	45	5955-00-944-4667	B-13	6
5955-00-499-7324	B-16	44	5955-00-944-4769	B-13	3
5955-00-499-7325	B-16	43	5955-00-944-4779	B-13	7
5955-00-499-7326	B-16	57	5955-00-944-4780	B-13	10
5955-00-499-7327	B-16	56	5955-00-944-4781	B-13	12
5955-00-499-7328	B-16	55	5955-00-944-4782	B-13	13
5955-00-499-7329	B-16	54	5955-00-944-4783	B-13	14
5955-00-499-7330	B-16	52	5955-00-999-4836	B-13	11
5955-00-499-7331	B-16	51	5955-00-999-4836	B-14	10
5955-00-499-7332	B-16	50	5955-00-999-4838	B-15	11
5955-00-499-7333	B-16	49	5955-00-999-4839	B-15	12
5955-00-499-7335	B-14	5	5955-00-999-4840	B-15	13
5955-00-499-7337	B-14	11	5955-00-999-4841	B-15	14
5955-00-499-7338	B-14	2	5955-00-999-4842	B-15	15
5955-00-517-9436	B-14	6	5955-00-999-4843	B-15	16
5955-00-517-9446	B-16	48	5955-00-999-4844	B-15	18
5955-00-627-0510	B-14	12	5955-00-999-4845	B-15	17
5955-00-627-0511	B-14	13	5955-00-999-4846	B-15	10
5955-00-878-7019	B-16	50	5955-00-999-4846	B-16	53
5955-00-878-7020	B-16	51	5955-00-999-4847	B-15	9
5955-00-878-7023	B-16	49	5955-00-999-4936	B-16	55
5955-00-878-7025	B-16	54	5955-00-999-4937	B-16	56
5955-00-878-7036	B-16	52	5955-00-999-4938	B-16	57
5955-00-944-4665	B-13	4	5955-00-999-4939	B-13	1

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5955-00-999-4939	B-17	10	5961-00-081-4816	B-5	69
5955-00-999-4940	B-14	3	5961-00-081-8365	B-9	16
5955-00-999-4941	B-14	4	5961-00-081-8365	B-22	14
5955-00-999-4942	B-14	5	5961-00-104-3554	B-5	65
5955-00-999-4943	B-14	6	5961-00-175-8467	B-22	20
5955-00-999-4944	B-14	9	5961-00-226-1755	B-4	3
5955-00-999-4945	B-14	11	5961-00-226-1755	B-16	17
5955-00-999-4946	B-14	12	5961-00-226-1755	B-20	12
5955-00-999-4947	B-14	13	5961-00-257-0606	B-4	2
5955-00-999-4948	B-14	1	5961-00-442-9494	B-43	74
5955-00-999-4949	B-14	2	5961-00-442-9494	B-44	69
5955-00-999-4950	B-16	58	5961-00-442-9494	B-46	74
5955-00-999-4951	B-16	43	5961-00-442-9494	B-47	76
5955-00-999-4952	B-16	44	5961-00-519-6977	B-6	5
5955-00-999-4953	B-16	45	5961-00-572-9486	B-19	17
5955-00-999-4954	B-16	46	5961-00-627-0323	B-6	6
5955-00-999-4955	B-16	47	5961-00-646-4611	B-4	5
5955-00-999-4956	B-16	48	5961-00-646-4611	B-5	52
5961-00-050-7499	B-23	15	5961-00-646-4611	B-8	6
5961-00-052-2090	B-19	9	5961-00-646-4611	B-9	9
5961-00-052-2090	B-20	11	5961-00-646-4611	B-17	6
5961-00-067-5691	B-43	61	5961-00-646-4611	B-21	37
5961-00-067-5691	B-44	55	5961-00-646-4611	B-22	19
5961-00-067-5691	B-46	60	5961-00-646-4611	B-25	2
5961-00-067-5691	B-47	63	5961-00-646-4611	B-27	72

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5961-00-714-1386	B-5	47	5961-00-855-1551	B-45	10
5961-00-752-6116	B-5	51	5961-00-859-5177	B-8	39
5961-00-752-6121	B-45	20	5961-00-879-3089	B-8	41
5961-00-752-6121	B-48	20	5961-00-879-3089	B-16	18
5961-00-752-6178	B-23	20	5961-00-879-4964	B-25	19
5961-00-771-7183	B-9	17	5961-00-880-4779	B-48	9
5961-00-811-5799	B-42	26	5961-00-883-9495	B-11	6
5961-00-811-5799	B-44	61	5961-00-890-7034	B-5	54
5961-00-811-5799	B-46	75	5961-00-892-0734	B-23	28
5961-00-814-0768	B-11	2	5961-00-905-5083	B-20	17
5961-00-837-7262	B-5	50	5961-00-923-4337	B-5	67
5961-00-837-7262	B-9	10	5961-00-924-4022	B-19	17
5961-00-837-7262	B-45	5	5961-00-926-0210	B-20	17
5961-00-837-7262	B-48	4	5961-00-926-0237	B-19	9
5961-00-842-6937	B-9	3	5961-00-935-0138	B-42	26
5961-00-842-6937	B-11	6	5961-00-935-0138	B-43	67
5961-00-842-6937	B-15	23	5961-00-935-0138	B-47	77
5961-00-842-6937	B-17	15	5961-00-935-4912	B-43	75
5961-00-842-6937	B-18	15	5961-00-935-4912	B-44	70
5961-00-842-9864	B-45	4	5961-00-935-4912	B-46	66
5961-00-842-9864	B-48	3	5961-00-935-4912	B-47	69
5961-00-845-6458	B-27	71	5961-00-939-4263	B-5	39
5961-00-850-5987	B-23	10	5961-00-942-1271	B-22	5
5961-00-851-8296	B-22	13	5961-00-943-9179	B-25	20
5961-00-852-7549	B-11	28	5961-00-944-4663	B-8	43

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5961-00-944-4757	B-4	2	5970-00-497-9942	B-44	58
5961-00-944-4761	B-22	20	5970-00-497-9942	B-46	63
5961-00-946-0947	B-23	16	5970-00-497-9942	B-47	66
5961-00-951-8757	B-8	37	5970-00-497-9943	B-42	77
5961-00-978-7660	B-45	13	5970-00-497-9943	B-43	65
5961-00-978-7660	B-48	12	5970-00-497-9943	B-44	59
5961-00-989-6703	B-5	66	5970-00-497-9943	B-46	64
5961-00-993-2986	B-45	22	5970-00-497-9943	B-47	67
5961-00-993-8625	B-43	60	5970-00-503-6135	B-3	23
5961-00-993-8625	B-44	53	5970-00-503-6351	B-16	23
5961-00-993-8625	B-46	58	5970-00-577-1630	B-11	21
5961-00-993-8625	B-47	61	5970-00-763-1971	B-5	62
5961-00-999-7341	B-21	50	5970-00-829-2339	B-5	41
5970-00-006-9804	B-42	74	5970-00-829-2339	B-6	9
5970-00-006-9804	B-43	63	5970-00-829-2339	B-7	28
5970-00-006-9804	B-44	57	5970-00-829-2339	B-8	48
5970-00-006-9804	B-46	62	5970-00-829-2339	B-11	22
5970-00-006-9804	B-47	65	5970-00-829-2339	B-12	17
5970-00-044-5873	B-5	5	5970-00-829-2339	B-19	7
5970-00-052-9583	B-17	13	5970-00-829-2339	B-27	11
5970-00-052-9583	B-19	10	5970-00-829-2339	B-45	15
5970-00-177-1502	B-6	8	5970-00-829-2339	B-48	16
5970-00-438-4731	B-5	56	5970-00-838-0075	B-5	8
5970-00-497-8519	B-6	23	5970-00-846-7471	B-43	31
5970-00-497-9942	B-43	64	5970-00-846-7471	B-44	14

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SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5970-00-846-7471	B-46	6	5975-00-713-5091	B-39	16
5970-00-846-7471	B-47	9	5975-00-988-0649	B-31	27
5970-00-846-9116	B-13	15	5985-00-432-1485	B-1	4
5970-00-846-9116	B-21	36	5985-00-432-1485	B-33	
5970-00-891-1484	B-43	70	5985-00-432-1486	B-33	5
5970-00-891-1484	B-44	65	5995-00-494-1007	B-31	18
5970-00-891-1484	B-46	70	5995-00-495-0999	B-31	10
5970-00-891-1484	B-47	72	5995-00-495-1004	B-31	1
5970-00-912-2183	B-43	71	5995-00-495-1005	B-31	21
5970-00-912-2183	B-44	66	5995-00-930-7016	B-1	6
5970-00-912-2183	B-46	71	5995-00-930-7016	B-32	8
5970-00-912-2183	B-47	73	5995-00-945-1881	B-31	18
5970-00-932-7758	B-5	18	5995-00-945-1882	B-31	24
5970-00-947-1815	B-42	76	5995-00-945-1900	B-31	21
5970-00-947-1815	B-45	6	5995-00-945-1922	B-31	1
5970-00-947-1815	B-48	5	5995-00-945-1936	B-31	10
5970-00-956-4973	B-8	38	5999-00-878-5184	B-23	7
5970-00-956-4973	B-9	2	6135-00-138-8590	B-39	11
5970-00-956-4973	B-15	22	6135-00-156-3934	B-1	9
5970-00-956-4973	B-17	13	6135-00-156-3934	B-37	
5970-00-956-4973	B-18	14	6140-00-138-5615	B-37	3
5970-00-956-4973	B-19	10	6140-00-138-5616	B-39	2
5970-00-997-2580	B-6	7	6140-00-138-5617	B-37	2
5975-00-105-3905	B-31	16	6140-00-221-1564	B-41	11
5975-00-226-6676	B-31	17	6140-00-943-5864	B-41	14

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
6145-00-284-0579	B-31	7	6210-00-682-9833	B-47	46
6145-00-548-1258	B-31	19	6240-00-155-7836	B-43	48
6145-00-635-4054	B-31	11	6240-00-155-7836	B-44	36
6145-00-682-9937	B-32	7	6240-00-155-7836	B-46	36
6145-00-814-1209	B-2	24	6240-00-155-7836	B-47	54
6145-00-814-1209	B-7	27	6625-00-405-9087	B-27	9
6145-00-814-1209	B-10	14	6625-00-930-0266	B-46	15
6145-00-814-1209	B-16	31	6625-00-930-0266	B-47	43
6145-00-814-1209	B-20	8	8105-00-921-6711	B-1	1
6145-00-814-1209	B-21	18	8105-00-921-6711	B-30	1
6145-00-814-1209	B-23	25	9330-00-138-2361	B-6	8
6145-00-814-1209	B-25	45	9330-00-138-2361	B-31	2
6145-00-814-1209	B-29	4	9330-00-714-4600	B-43	78
6210-00-682-9833	B-43	38	9330-00-714-4600	B-44	73
6210-00-682-9833	B-44	44	9330-00-714-4600	B-46	78
6210-00-682-9833	B-46	42	9330-00-714-4600	B-47	80

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
AB-955/PRC-74	05869	B-1	5	AN6227-2	81349	B-27	59
AB-955/PRC-74	05869	B-35		AN960C10	81349	B-33	20
AB129-PR	82204	B-35	2	AN960C10	81349	B-42	73
AMP30371A	12138	B-32	1	AN960C10L	81349	B-6	25
AN/PRC-74B	05869	B-1		AN960C10L	81349	B-42	56
AN/PRC-74C	05869	B-1		AN960C10L	81349	B-43	56
AN3420-10	81349	B-31	6	AN960C10L	81349	B-44	51
AN3420-6	81349	B-31	4	AN960C10L	81349	B-46	55
AN3420-8	81349	B-31	5	AN960C10L	81349	B-47	58
AN345C0	81349	B-11	15	AN960C3	81349	B-12	34
AN4-6A	81349	B-42	82	AN960C4	81349	B-2	30
AN507-440R6	81349	B-5	31	AN960C4	81349	B-39	10
AN507C440-6	81349	B-44	23	AN960C4	81349	B-40	2
AN507C632-3	81349	B-44	19	AN960C4	81349	B-42	11
AN507C632-3	81349	B-46	20	AN960C4L	81349	B-12	14
AN507C632R6	81349	B-3	5	AN960C4L	81349	B-42	55
AN515C4-10	81349	B-12	40	AN960C4L	81349	B-43	50
AN515C4-5	81349	B-3	21	AN960C4L	81349	B-44	16
AN515C4-5	81349	B-10	4	AN960C4L	81349	B-46	17
AN515C4-5	81349	B-21	3	AN960C4L	81349	B-47	40
AN515C4-5	81349	B-25	41	AN960C516	81349	B-43	46
AN520-0-5	81349	B-11	20	AN960C516	81349	B-47	36
AN520C0R8	81349	B-11	17	AN960C6	81349	B-3	11
AN535-0-3	81349	B-2	14	AN960C6	81349	B-5	18
				AN960C6	81349	B-6	12

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
AN960C6	81349	B-42	69	A199-3	86928	B-43	47
AN960C6L	81349	B-5	64	A199-3	86928	B-44	43
AN960C6L	81349	B-7	5	A199-3	86928	B-46	50
AN960C6L	81349	B-27	23	A199-3	86928	B-47	53
AN960C6L	81349	B-42	69	A361-3	86928	B-42	77
AN960C6L	81349	B-44	32	A361-3	86928	B-43	65
AN960C616L	81349	B-43	40	A361-3	86928	B-44	59
AN960C616L	81349	B-46	38	A361-3	86928	B-46	64
AN960C616L	81349	B-47	38	A361-3	86928	B-47	67
AN960C8	81349	B-33	16	A362-29	86928	B-42	76
AN960C8	81349	B-42	20	A362-30	86928	B-43	64
AN960C8	81349	B-43	33	A362-30	86928	B-44	58
AN960C8	81349	B-47	27	A362-30	86928	B-46	63
AN960C8L	81349	B-42	20	A362-30	86928	B-47	66
AN960C8L	81349	B-46	29	A368-23	86928	B-42	74
AS-1887A/PRC-74	05869	B-1	2	A368-23	86928	B-43	63
AS-1887A/PRC-74	05869	B-34		A368-23	86928	B-44	57
AS256-3A6N	08714	B-2	27	A368-23	86928	B-46	62
AS260-0AY-8P	08714	B-39	1	A368-23	86928	B-47	65
AY-400FL	00141	B-27	82	A510-06	98410	B-32	2
A1486-FINISH	57771	B-16	28	A86C	59730	B-7	6
A167	86928	B-43	31	BPR330	05046	B-28	9
A167	86928	B-44	14	BPR330	05046	B-44	11
A167	86928	B-46	6	BPR330	05046	B-46	14
A167	86928	B-47	9	BR12-140B12V	09026	B-21	39

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
BR26S191	09026	B-17	3	CD10C331J03	93790	B-4	9
BR7X65D93S253	09026	B-5	22	CD10C331J03	93790	B-17	24
B706-1	07154	B-27	33	CD10C331J03	93790	B-22	7
CA37KFW103	81349	B-42	21	CD10C390J03	93790	B-15	26
CD10C050K03	93790	B-12	56	CD10C390J03	93790	B-16	34
CD10C050K03	93790	B-16	38	CD10C470J03	93790	B-16	36
CD10C050K03	93790	B-17	2	CD10C500J03	93790	B-16	16
CD10C101J03	93790	B-11	25	CD10C560J03	93790	B-16	39
CD10C101J03	93790	B-17	17	CD10C620J03	93790	B-21	51
CD10C101J03	93790	B-18	2	CK05CW102K	81349	B-8	5
CD10C120J03	93790	B-16	41	CK05CW102K	81349	B-16	13
CD10C150J03	93790	B-15	20	CK05CW102K	81349	B-23	18
CD10C150J03	93790	B-16	40	CK06CW103M	81349	B-15	4
CD10C150J03	93790	B-22	4	CK06CW103M	81349	B-16	25
CD10C200J03	93790	B-15	25	CK06CW103M	81349	B-17	19
CD10C200J03	93790	B-16	21	CK06CW103M	81349	B-20	9
CD10C240J03	93790	B-16	35	CK06CW103M	81349	B-21	38
CD10C241J03	93790	B-8	3	CK06CW103M	81349	B-22	3
CD10C251J03	93790	B-23	27	CK06CW103M	81349	B-23	12
CD10C270J03	93790	B-17	8	CK06CW272K	81349	B-17	18
CD10C300J03	93790	B-16	33	CK06CW272K	81349	B-18	11
CD10C300J03	93790	B-19	3	CK06CW562K	81349	B-18	1
CD10C301J03	93790	B-17	7	CK103	71590	B-27	68
CD10C330J03	93790	B-16	32	CLS632-3	46384	B-42	46
CD10C330J03	93790	B-17	8	CL65BL150MP3	81349	B-6	11

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FBCM	FIG. NO.	ITEM NO.	PART NUMBER	FBCM	FIG. NO.	ITEM NO.
CM04FA331J03	81349	B-17	24	CX-10239/PRC-74	05869	B-1	6
CM04FA331J03	81349	B-22	7	CX-10239/PRC-74	05869	B-32	8
CM05CD100D03	81349	B-26	2	CX-11468/U	05869	B-32	4
CM05D241J03	81349	B-26	22	CY-6121/PRC-74	05869	B-1	11
CM05D271J03	81349	B-11	12	CY-6314/PRC-74	05869	B-37	
CM05D331J03	81349	B-26	19	CY-6314A/PRC-74	05869	B-37	
CM05D470J03	81349	B-26	5	CY-6314/PRC-74	05869	B-1	9
CM05FD271J03	81349	B-11	12	CY-6314A/PRC-74	05869	B-1	9
CM06D202J03	81349	B-11	38	C002MGF2-16-033	81349	B-31	11
CM06D392J03	81349	B-11	36	C002MGF2-18-031	81349	B-31	19
CM06FD202J03	81349	B-11	38	C003MGF3-18-034	81349	B-31	7
CM06FD392J03	81349	B-11	36	C18C331J	16546	B-4	9
CO-02LGF2- 180250	81349	B-32	7	C3M	06229	B-43	28
COR1-33S	13476	B-33	1	C3M	06229	B-44	26
CSR13G105KM	81349	B-8	19	C3M	06229	B-46	21
CS13BB685K	81349	B-8	20	C3M	06229	B-47	21
CS13BC227K	81349	B-8	33	C308	08289	B-5	67
CS13BE225K	81349	B-8	11	C5-1	00141	B-27	17
CS13BE336M	81349	B-5	43	C5-2	00141	B-27	46
CS13BF105K	81349	B-8	19	DE1-123D	09454	B-9	27
CS13BG106K	81349	B-8	19	DE1-823D	09454	B-9	25
CT14-123K	90634	B-45	8	DM15-102J	72136	B-8	12
CW-863/PRC-74	05869	B-26	9	DM15-102J	72136	B-11	31
CW-863/PRC-74	05869	B-1	1	DM15-102J	72136	B-15	7
CW-863/PRC-74	05869	B-30	1	DM15-102J	72136	B-17	14

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
DM15-102J	72136	B-19	1	ERC1166-012	13571	B-16	48
DM15-511J	72136	B-8	23	ERC1166-013	13571	B-16	47
DM15-681J	72136	B-25	37	ERC1166-014	13571	B-16	46
DM15-681J	72136	B-26	16	ERC1166-015	13571	B-16	45
DM15-751J	72136	B-11	7	ERC1166-016	13571	B-16	44
DM15-821J	72136	B-18	10	ERC1166-017	13571	B-16	43
DM15-821J	72136	B-20	2	ERC1166-018	13571	B-16	58
DM15-821J	72136	B-26	18	ERC1166-019	13571	B-16	57
DM20F562J	72136	B-26	4	ERC1166-020	13571	B-16	56
DPXAF13-33S	71468	B-42	27	ERC1166-021	13571	B-16	55
DPXAF26-33S	71468	B-42	29	ERC1166-022	13571	B-16	54
EB10G5	01121	B-21	52	ERC1166-023	13571	B-16	52
EB10G5	01121	B-23	2	ERC1166-024	13571	B-16	51
EPC04X103M	09454	B-32	10	ERC1166-025	13571	B-16	50
ERC1166-002	13571	B-15	11	ERC1166-026	13571	B-16	49
ERC1166-003	13571	B-15	12	ERC1167-002	13571	B-14	3
ERC1166-004	13571	B-15	13	ERC1167-003	13571	B-14	4
ERC1166-005	13571	B-15	14	ERC1167-004	13571	B-14	5
ERC1166-006	13571	B-15	15	ERC1167-005	13571	B-14	6
ERC1166-007	13571	B-15	16	ERC1167-006	13571	B-14	9
ERC1166-008	13571	B-15	18	ERC1167-007	13571	B-14	11
ERC1166-009	13571	B-15	17	ERC1167-008	13571	B-14	12
ERC1166-010	13571	B-15	10	ERC1167-009	13571	B-14	13
ERC1166-010	13571	B-16	53	ERC1167-010	13571	B-14	1
ERC1166-011	13571	B-15	9	ERC1167-011	13571	B-14	2

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
E30108	80008	B-42	4	F02A250V4A	81349	B-46	45
FA2003	13715	B-19	17	F02A250V4A	81349	B-47	48
FA4000	13715	B-20	17	F02A250V6A	81349	B-43	41
FASH102W	01121	B-7	24	F02A250V6A	81349	B-44	38
FMN20G	81349	B-43	42	F02A32V15A	81349	B-46	40
FMN20G	81349	B-44	39	F02A32V15A	81349	B-47	44
FMN20G	81349	B-46	41	F03A250V8A	81349	B-46	43
FMN20G	81349	B-47	45	F03A250V8A	81349	B-47	47
FMS832-8	46384	B-43	79	F18625-875	72656	B-34	4
FMS832-8	46384	B-44	76	F632-1	46384	B-21	44
FMS832-8	46384	B-46	81	GA1-5PF5PCT	78488	B-19	5
FMS832-8	46384	B-47	83	GA1-5PF5PCT	78488	B-24	28
PH1032-14	46384	B-36	3	GG4601-000-801	94375	B-21	29
PH632-6	46384	B-3	12	GG4601-040-801	94375	B-10	13
PN1014-440P18	80539	B-10	19	GG4601-040-801	94375	B-20	7
PN1014-440P18	80539	B-27	57	GG4601-040-801	94375	B-23	26
FT-SM028TUR	98291	B-5	38	GG4602-900-819	94375	B-10	16
FT-SM32TUR-	98291	B-5	30	GG4609-000-801	94375	B-25	18
WHITE				GG4640-000-000	94375	B-25	7
FTE10	98291	B-11	3	G42-19	00328	B-41	16
FTE12	98291	B-11	4	G51HC	03296	B-43	78
FTE15	98291	B-11	3	G51HC	03296	B-44	73
FT1000DTUR	98291	B-6	4	G51HC	03296	B-46	78
F02A250V2A	81349	B-46	48	G51HC	03296	B-47	80
F02A250V2A	81349	B-47	51	H17.5-10	94412	B-46	59

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
M17-5-10	94412	B-47	62	JAN1N457	81349	B-17	6
M23-10	94412	B-43	59	JAN1N457	81349	B-21	37
M23-10	94412	B-44	54	JAN1N457	81349	B-22	19
JAN1N1202	81349	B-42	26	JAN1N457	81349	B-25	2
JAN1N1202	81349	B-44	61	JAN1N457	81349	B-27	72
JAN1N1202	81349	B-46	75	JAN1N483B	81349	B-23	28
JAN1N1202A	81349	B-42	26	JAN1N538	81349	B-6	5
JAN1N1202A	81349	B-43	67	JAN1N540	81349	B-45	13
JAN1N1202A	81349	B-47	77	JAN1N540	81349	B-48	12
JAN1N251	81349	B-22	5	JAN1N753A	81349	B-45	20
JAN1N2993B	81349	B-5	51	JAN1N753A	81349	B-48	20
JAN1N3030B	81349	B-23	20	JAN1N754A	81349	B-11	28
JAN1N3064	81349	B-11	2	JAN1N756A	81349	B-27	71
JAN1N3890	81349	B-43	75	JAN1N757A	81349	B-5	54
JAN1N3890	81349	B-44	70	JAN1N914	81349	B-45	4
JAN1N3890	81349	B-46	66	JAN1N914	81349	B-48	3
JAN1N3890	81349	B-47	69	JAN1N967B	81349	B-22	13
JAN1N4150	81349	B-22	20	JAN2N1131	81349	B-9	16
JAN1N4306	81349	B-19	17	JAN2N1131	81349	B-22	14
JAN1N4307	81349	B-20	17	JAN2N1482	81349	B-43	60
JAN1N4370A	81349	B-5	39	JAN2N1482	81349	B-44	53
JAN1N457	81349	B-4	5	JAN2N1482	81349	B-46	58
JAN1N457	81349	B-5	52	JAN2N1482	81349	B-47	61
JAN1N457	81349	B-8	6	JAN2N1484	81349	B-5	66
JAN1N457	81349	B-9	9	JAN2N1485	81349	B-5	69

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
JAN2N2219	81349	B-23	15	KY-562U	05869	B-32	
JAN2N2222A	81349	B-8	37	LP56D40S4	03038	B-27	1
JAN2N2369A	81349	B-19	9	LP57D40S16-SPL	03038	B-21	8
JAN2N2369A	81349	B-20	11	LP57D62S32-SPL	03038	B-5	19
JAN2N2905	81349	B-45	10	LP57D62S32-SPL	03038	B-7	2
JAN2N2905	81349	B-48	9	LP57D62S34-SPL	03038	B-5	1
JAN2N4449	81349	B-4	2	LP57XA62J3	03038	B-34	12
JAN2N697	81349	B-5	50	MB535-2-MOD	88797	B-24	12
JAN2N697	81349	B-9	10	MF19351-04	75237	B-44	71
JAN2N697	81349	B-45	5	MF19351-04	75237	B-46	76
JAN2N697	81349	B-48	4	MF19351-04	75237	B-47	78
JAN2N706	81349	B-9	3	MF6001-04	75237	B-43	76
JAN2N706	81349	B-11	6	MF6001-06	75237	B-12	46
JAN2N706	81349	B-15	23	MIL-I-23053/5	06090	B-6	8
JAN2N706	81349	B-17	15	MIL-I-23053/5	06090	B-31	2
JAN2N706	81349	B-18	15	MK-911A/PRC-74	05869	B-1	4
JAN2N706A	81349	B-11	6	MK-911A/PRC-74	05869	B-33	
JAN2N744	81349	B-19	9	MK-911B/PRC-74	05869	B-1	4
JAN2N911	81349	B-9	17	MK-911B/PRC-74	05869	B-33	
JMC3901	91293	B-13	16	ML3	80223	B-9	20
JMC3901	91293	B-16	12	MS122116	96906	B-28	12
JMC5026	91293	B-13	16	MS122119	96906	B-28	13
JMC5026	91293	B-16	12	MS122138	96906	B-28	5
KY-562/U	05869	B-1	7				
KY-562/U	05869	B-30	2				

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS15795-803	96906	B-43	20	MS20426AD2-3	96906	B-12	12
MS15795-803	96906	B-47	17	MS20426AD2-4	96906	B-21	23
MS15795-807	96906	B-43	8	MS20426AD2	96906	B-27	75
MS15795-807	96906	B-47	7	MS20426AD3-2	96906	B-12	47
MS15795-810	96906	B-42	79	MS20426AD3-3	96906	B-3	9
MS16562-190	96906	B-39	4	MS20426AD3-5	96906	B-42	35
MS16624-4025	96906	B-27	3	MS20426AD3-5	96906	B-47	81
MS17122-5	96906	B-15	21	MS20426AD3-6	96906	B-39	23
MS17122-5	96906	B-16	20	MS20426AD4-4	96906	B-2	10
MS17122-5	96906	B-17	11	MS20426AD4-4	96906	B-39	29
MS17122-5	96906	B-18	4	MS20426AD6-7	96906	B-42	37
MS17122-5	96906	B-19	4	MS20426A2-5	96906	B-42	35
MS171432	96906	B-2	9	MS20426A2-5	96906	B-44	75
MS171432	96906	B-40	5	MS20426A2-5	96906	B-46	80
MS171435	96906	B-34	6	MS20426A4-5	96906	B-42	68
MS171494	96906	B-34	9	MS20426A6-7	96906	B-42	37
MS17160-8	96906	B-6	29	MS20427F4-4	96906	B-36	7
MS18034-4-NN	96906	B-39	16	MS20470AD3-3	96906	B-6	30
MS20001P8-200	96906	B-39	30	MS20470AD3-3	96906	B-42	3
MS20257-5	96906	B-42	63	MS20470AD3-3	96906	B-43	77
MS20364-632C	96906	B-3	10	MS20470AD3-3	96906	B-47	79
MS20364-632C	96906	B-6	13	MS20470AD3-4	96906	B-2	8
MS20426AD2-2	96906	B-5	14	MS20470AD3-6	96906	B-40	6
MS20426AD2-2	96906	B-7	21	MS20470AD4-4	96906	B-2	2
MS20426AD2-2	96906	B-12	13	MS20470AD4-5	96906	B-40	4

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS20470AD6-7	96906	B-42	38	MS21209C0620	96906	B-38	7
MS20470AS-4	96906	B-42	3	MS21209C0815	96906	B-28	15
MS20470A3-3	96906	B-44	72	MS21209F1-15	96906	B-42	61
MS20470A3-3	96906	B-46	77	MS21318-8	96906	B-2	14
MS20470A6-6	96906	B-42	38	MS21919-G2	96906	B-41	3
MS20659-2	96906	B-7	6	MS24663	96906	B-31	9
MS20659-38	96906	B-21	14	MS24693C2	96906	B-12	20
MS21045C04	96906	B-39	17	MS24693C2	96906	B-21	43
MS21045C3	96906	B-42	32	MS24693C23	96906	B-43	23
MS21045C4	96906	B-42	80	MS24693C23	96906	B-47	20
MS21075L06	96906	B-3	8	MS24693C24	96906	B-39	3
MS21075L06	96906	B-21	22	MS24693C26	96906	B-39	24
MS21075L06	96906	B-39	21	MS24693C4	96906	B-43	25
MS21075L06	96906	B-42	36	MS24693C50	96906	B-43	9
MS21075L06	96906	B-47	82	MS24693C50	96906	B-47	8
MS21083C04	96906	B-42	28	MS25036-1	96906	B-46	44
MS21092-06-002	96906	B-35	25	MS25036-1	96906	B-47	50
MS21097-04002	96906	B-39	37	MS25036-3	96906	B-43	22
MS21208F1-15	96906	B-28	14	MS25036-3	96906	B-46	19
MS21208F1-15	96906	B-38	9	MS25036-3	96906	B-47	19
MS21208F1-15	96906	B-42	58	MS25036-45	96906	B-21	14
MS21208F6-15	96906	B-36	16	MS25036-48	96906	B-43	35
MS21209C0415	96906	B-28	16	MS25036-48	96906	B-44	34
MS21209C0615	96906	B-28	10	MS25036-48	96906	B-46	33
MS21209C0615	96906	B-38	4	MS25036-48	96906	B-47	32

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FPCM	FIG. NO.	ITEM NO.	PART NUMBER	FPCM	FIG. NO.	ITEM NO.
MS25036-49	96906	B-33	17	MS25256-6	96906	B-46	42
MS25036-49	96906	B-42	22	MS25281-2	96906	B-33	8
MS25036-50	96906	B-42	19	MS27122-5	96906	B-20	13
MS25036-50	96906	B-46	39	MS27183-8	96906	B-2	26
MS25036-50	96906	B-47	42	MS27183-8	96906	B-27	37
MS25036-53	96906	B-42	25	MS27183-8	96906	B-27	58
MS25036-6	96906	B-35	4	MS27183-9	96906	B-36	14
MS25036-6	96906	B-43	44	MS3102R12S3S	96906	B-42	17
MS25036-6	96906	B-44	40	MS3102R22-5P	96906	B-42	14
MS25036-6	96906	B-46	46	MS3108R12S3P	96906	B-31	14
MS25036-6	96906	B-47	49	MS3108R22-5S	96906	B-31	3
MS25036-8	96906	B-41	7	MS35036-3	96906	B-44	18
MS25036-8	96906	B-46	23	MS35059-22	96906	B-43	43
MS25036-8	96906	B-47	24	MS35059-22	96906	B-44	42
MS25068-24	96906	B-46	49	MS35200-29	96906	B-42	51
MS25068-24	96906	B-47	52	MS35207-264	96906	B-42	59
MS25082-7	96906	B-21	9	MS35207-265	96906	B-42	81
MS25085-1	96906	B-27	37	MS35216-43	96906	B-43	53
MS25237-327	96906	B-43	48	MS35216-43	96906	B-47	41
MS25237-327	96906	B-44	36	MS35226-63	96906	B-43	57
MS25237-327	96906	B-46	36	MS35226-63	96906	B-44	52
MS25237-327	96906	B-47	54	MS35226-63	96906	B-46	56
MS25256-5	96906	B-47	46	MS35226-63	96906	B-47	57
MS25256-6	96906	B-43	38	MS35233-12	96906	B-27	30
MS25256-6	96906	B-44	44	MS35233-12	96906	B-39	8

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS35233-13	96906	B-2	29	MS35233-18	96906	B-12	36
MS35233-13	96906	B-3	34	MS35233-18	96906	B-39	13
MS35233-13	96906	B-5	33	MS35233-2	96906	B-12	25
MS35233-13	96906	B-7	9	MS35233-25	96906	B-21	16
MS35233-13	96906	B-10	1	MS35233-25	96906	B-35	6
MS35233-13	96906	B-12	43	MS35233-26	96906	B-7	3
MS35233-13	96906	B-24	1	MS35233-26	96906	B-10	2
MS35233-14	96906	B-43	B-52	MS35233-27	96906	B-28	7
MS35233-14	96906	B-44	B-47	MS35233-28	96906	B-2	20
MS35233-14	96906	B-46	B-53	MS35233-29	96906	B-42	70
MS35233-14	96906	B-47	56	MS35233-29	96906	B-44	8
MS35233-15	96906	B-5	31	MS35233-29	96906	B-46	13
MS35233-15	96906	B-12	4	MS35233-3	96906	B-16	7
MS35233-15	96906	B-21	30	MS35233-3	96906	B-21	33
MS35233-15	96906	B-24	17	MS35233-3	96906	B-25	12
MS35233-15	96906	B-25	25	MS35233-3	96906	B-25	35
MS35233-15	96906	B-42	16	MS35233-31	96906	B-41	17
MS35233-15	96906	B-43	21	MS35233-35	96906	B-6	1
MS35233-15	96906	B-44	17	MS35233-4	96906	B-43	5
MS35233-15	96906	B-46	18	MS35233-4	96906	B-44	5
MS35233-15	96906	B-47	18	MS35233-4	96906	B-46	5
MS35233-16	96906	B-41	2	MS35233-4	96906	B-47	5
MS35233-16	96906	B-43	36	MS35233-41	96906	B-3	29
MS35233-16	96906	B-47	33	MS35233-46	96906	B-42	18
MS35233-17	96906	B-42	13	MS35233-8	96906	B-27	35

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS35333-37	96906	B-35	5	MS35333-72	96906	B-44	31
MS35333-69	96906	B-12	33	MS35333-72	96906	B-46	28
MS35333-69	96906	B-16	5	MS35333-73	96906	B-42	78
MS35333-69	96906	B-21	32	MS35333-73	96906	B-44	50
MS35333-69	96906	B-25	13	MS35333-73	96906	B-46	52
MS35333-69	96906	B-25	36	MS35335-57	96906	B-12	44
MS35333-69	96906	B-43	4	MS35335-60	96906	B-33	21
MS35333-69	96906	B-44	3	MS35337-4	96906	B-23	8
MS35333-69	96906	B-46	3	MS35337-77	96906	B-11	16
MS35333-69	96906	B-47	4	MS35337-78	96906	B-5	10
MS35333-70	96906	B-2	28	MS35337-78	96906	B-12	5
MS35333-70	96906	B-5	35	MS35337-78	96906	B-21	12
MS35333-70	96906	B-21	26	MS35337-78	96906	B-24	8
MS35333-70	96906	B-42	12	MS35337-78	96906	B-24	18
MS35333-70	96906	B-43	51	MS35337-78	96906	B-25	26
MS35333-70	96906	B-44	46	MS35337-78	96906	B-25	43
MS35333-70	96906	B-46	32	MS35337-78	96906	B-39	9
MS35333-70	96906	B-47	30	MS35337-79	96906	B-2	21
MS35333-71	96906	B-5	17	MS35337-79	96906	B-5	68
MS35333-71	96906	B-21	17	MS35337-79	96906	B-7	4
MS35333-71	96906	B-42	31	MS35337-80	96906	B-33	15
MS35333-71	96906	B-44	63	MS35337-81	96906	B-27	85
MS35333-71	96906	B-46	68	MS35338-135	96906	B-3	20
MS35333-72	96906	B-27	49	MS35338-135	96906	B-44	21
MS35333-72	96906	B-42	24	MS35338-136	96906	B-5	68

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS35338-136	96906	B-7	4	MS51957-14	96906	B-25	41
MS35338-138	96906	B-5	59	MS51957-15	96906	B-21	13
MS35338-138	96906	B-6	26	MS51957-15	96906	B-25	25
MS35338-45	96906	B-43	45	MS51957-17	96906	B-2	29
MS35338-45	96906	B-47	35	MS51957-26	96906	B-5	63
MS35338-81	96906	B-5	59	MS51957-27	96906	B-5	63
MS35425-37	96906	B-36	12	MS51957-27	96906	B-7	3
MS35426-13	96906	B-39	6	MS51957-27	96906	B-28	7
MS35489-1	96906	B-5	15	MS51957-28	96906	B-38	5
MS35489-1	96906	B-7	26	MS51957-3	96906	B-16	7
MS35489-33	96906	B-5	27	MS51957-3	96906	B-25	12
MS35489-4	96906	B-5	29	MS51957-3	96906	B-25	35
MS35489-4	96906	B-7	18	MS51957-30	96906	B-43	73
MS35489-4	96906	B-21	27	MS51957-30	96906	B-47	75
MS35649-264	96906	B-5	61	MS51957-31	96906	B-44	68
MS35649-264	96906	B-44	62	MS51957-31	96906	B-46	73
MS35649-264	96906	B-46	67	MS51957-36	96906	B-6	1
MS35650-304	96906	B-6	28	MS51957-42	96906	B-3	31
MS35751-2	96906	B-36	4	MS51957-8	96906	B-27	35
MS51923-185	96906	B-27	44	MS51958-61	96906	B-33	22
MS51967-12	96906	B-24	2	MS51958-63	96906	B-42	60
MS51957-13	96906	B-5	33	MS51958-65	96906	B-42	51
MS51957-13	96906	B-7	10	MS51958-68	96906	B-42	57
MS51957-13	96906	B-24	1	MS51959-45	96906	B-44	41
MS51957-14	96906	B-7	12	MS51959-45	96906	B-46	47

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS75008-40	96906	B-12	10	MS91528-1K2B	96906	B-47	14
MS75008-42	96906	B-12	59	MS91528-2F2B	96906	B-43	15
MS75008-42	96906	B-16	26	MS91528-2F2B	96906	B-44	12
MS75008-42	96906	B-19	6	MT-3613/PRC-74	05869	B-1	8
MS75052-3	96906	B-12	15	MT-3613/PRC-74	05869	B-36	
MS75052-3	96906	B-18	12	MX-7256/PRC-74	05869	B-33	18
MS75052-5	96906	B-12	51	MIL-I-23053/5	81349	B-34	20
MS75052-5	96906	B-17	21	MIL-I-631TYPEF-	81349	B-11	21
MS75052-5	96906	B-22	11	PCL2			
MS77068-1	96906	B-21	42	MIL-T-713BLKTY-	81349	B-27	14
MS77068-1	96906	B-24	16	PCL2			
MS77068-2	96906	B-43	72	MIL-T-713WHTTY-	81349	B-27	14
MS77068-2	96906	B-44	67	GR-B-CL1-CAT-			
MS77068-2	96906	B-46	72	1-AWG6			
MS77068-2	96906	B-47	74	M22-07-00011FD	81349	B-44	37
MS90537-17	96906	B-25	4	M26655-2-0042	81349	B-4	11
MS90537-25	96906	B-23	13	M26655-2-0122	81349	B-6	22
MS90537-31	96906	B-15	5	M26655-2-0244	81349	B-45	8
MS90537-37	96906	B-8	2	M26655/2-0144	81349	B-11	27
MS90537-37	96906	B-9	31	M39003-01-2014	81349	B-45	21
MS90537-37	96906	B-23	6	M39003-01-2014	81349	B-48	18
MS90537-37	96906	B-25	15	M39003-01-2052	81349	B-5	43
MS90537-48	96906	B-22	8	M39003-01-2061	81349	B-6	22
MS90537-7	96906	B-21	58	M39003-01-2257	81349	B-9	6
MS91528-1K2B	96906	B-46	12	M39003-01-2261	81349	B-4	11

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
M39003-01-2296	81349	B-9	14	NAS620C10	80205	B-27	52
M39003-01-2356	81349	B-9	23	NAS620C2	80205	B-12	19
M39003-01-2356	81349	B-11	27	NAS620C2	80205	B-13	9
M39003-01-2380	81349	B-5	44	NAS620C2	80205	B-16	6
M39003-02-0022	81349	B-6	21	NAS620C2	80205	B-21	41
NAS1068C06LM	80205	B-3	8	NAS620C2	80205	B-25	21
NAS1068C06M	80205	B-42	36	NAS620C2	80205	B-27	32
NAS1068C06M	80205	B-44	74	NAS620C2	80205	B-43	3
NAS1068C06M	80205	B-46	79	NAS620C2	80205	B-44	4
NAS1068C3M	80205	B-42	62	NAS620C2	80205	B-46	4
NAS1081C04D2	80205	B-24	11	NAS620C2	80205	B-47	3
NAS1081C06D3	80205	B-12	24	NAS620C4L	80205	B-2	31
NAS1081C06D3	80205	B-21	10	NAS620C4L	80205	B-3	15
NAS1081C06D4	80205	B-12	29	NAS620C4L	80205	B-5	9
NAS1081C06D4	80205	B-24	14	NAS620C4L	80205	B-7	13
NAS1081C08D4	80205	B-43	16	NAS620C4L	80205	B-10	3
NAS1291-02	80205	B-27	31	NAS620C4L	80205	B-12	6
NAS1291C02M	80205	B-12	18	NAS620C4L	80205	B-21	2
NAS1297-3-5	80205	B-27	88	NAS620C4L	80205	B-24	3
NAS1352C08-16	80205	B-28	4	NAS620C4L	80205	B-25	42
NAS1352C08-6	80205	B-27	48	NAS620C4L	80205	B-39	36
NAS1515M04L	80205	B-5	8	NAS620C416L	80205	B-26	7
NAS1515M4L	80205	B-5	18	NAS620C416L	80205	B-27	4
NAS1635-06-8	80205	B-38	5	NAS620C6	80205	B-41	18
NAS557-4B	80205	B-21	27	NAS620C6L	80205	B-6	2

SECTION VI NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
NAS620C6L	80205	B-43	69	NAS671C4	80205	B-44	20
NAS620C6L	80205	B-44	64	NAS671C4	80205	B-46	31
NAS620C6L	80205	B-46	69	NAS671C6	80205	B-5	16
NAS620C6L	80205	B-47	71	NAS671C6	80205	B-42	32
NAS620C8	80205	B-3	30	NAS671C8	80205	B-42	23
NAS671-8	80205	B-23	9	NAS671C8	80205	B-44	30
NAS671C10	80205	B-5	58	NAS671C8	80205	B-46	27
NAS671C10	80205	B-27	84	NAS679A3	80205	B-36	13
NAS671C10	80205	B-42	72	NAS679C04M	80205	B-42	10
NAS671C10	80205	B-44	49	NAS679C04M	80205	B-43	24
NAS671C10	80205	B-46	54	NAS679C04M	80205	B-47	31
NAS671C2	80205	B-12	35	NAS679C06M	80205	B-43	68
NAS671C2	80205	B-21	40	NAS679C06M	80205	B-47	70
NAS671C2	80205	B-25	11	NAS679C08M	80205	B-42	23
NAS671C2	80205	B-25	34	NAS679C08M	80205	B-43	7
NAS671C2	80205	B-43	2	NAS679C08M	80205	B-47	26
NAS671C2	80205	B-44	2	NAS679C3M	80205	B-42	54
NAS671C2	80205	B-46	2	NAS679C3M	80205	B-43	55
NAS671C2	80205	B-47	2	NAS679C3M	80205	B-47	59
NAS671C4	80205	B-5	11				
NAS671C4	80205	B-12	58				
NAS671C4	80205	B-21	25	NO-3	82240	B-36	11
NAS671C4	80205	B-24	7	N5	06229	B-43	29
NAS671C4	80205	B-39	17	N5	06229	B-44	27
NAS671C4	80205	B-42	10	N5	06229	B-46	22

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
N5	06229	B-47	22	P5282AS1032-6	73197	B-43	13
PC1	81349	B-31	15	P5282AS1032-6	73197	B-47	13
PD9047	01281	B-22	20	QC1-OPFPORM5PCT	95121	B-24	27
PENNTUBE2SMT2	09795	B-6	8	RCR07GF473J	81349	B-19	21
PIP4	80223	B-11	33	RCR07G100JM	81349	B-22	16
PIP5	80223	B-11	1	RCR07G101JM	81349	B-8	25
PP-4514/PRC-74	05869	B-1	10	RCR07G101JM	81349	B-11	29
PP-4514/PRC-74	05869	B-42		RCR07G101JM	81349	B-23	22
PP-4514A/PRC-74	05869	B-1	10	RCR07G101JM	81349	B-24	25
PP-4514A/PRC-74	05869	B-42		RCR07G101JM	81349	B-25	5
PR118-3	05046	B-16	27	RCR07G102JM	81349	B-4	17
PR410-51	05046	B-5	5	RCR07G102JM	81349	B-8	28
PR410-52	05046	B-43	70	RCR07G102JM	81349	B-9	15
PR410-52	05046	B-44	65	RCR07G102JM	81349	B-11	18
PR410-52	05046	B-46	70	RCR07G102JM	81349	B-17	5
PR410-52	05046	B-47	72	RCR07G102JM	81349	B-18	7
PR429-1	05046	B-3	24	RCR07G102JM	81349	B-19	23
PR429-2	05046	B-3	13	RCR07G102JM	81349	B-23	14
PR429-3	05046	B-3	28	RCR07G103JM	81349	B-8	14
PR431-1	05046	B-27	20	RCR07G103JM	81349	B-9	13
PT3503	01281	B-23	10	RCR07G103JM	81349	B-15	19
PT3603	01281	B-21	50	RCR07G103JM	81349	B-16	14
PT3603A	01281	B-21	50	RCR07G103JM	81349	B-20	10
PT835	01281	B-8	39	RCR07G104JM	81349	B-8	18
P52-632	73197	B-3	18	RCR07G111JM	81349	B-8	7

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
RCR07G113JM	81349	B-11	10	RCR07G220JM	81349	B-20	14
RCR07G113JM	81349	B-22	12	RCR07G221JM	81349	B-9	32
RCR07G123JM	81349	B-20	15	RCR07G221JM	81349	B-25	6
RCR07G132JM	81349	B-8	30	RCR07G222JM	81349	B-4	7
RCR07G132JM	81349	B-25	28	RCR07G222JM	81349	B-8	22
RCR07G151JM	81349	B-25	38	RCR07G223JM	81349	B-4	12.
RCR07G152JM	81349	B-7	15	RCR07G223JM	81349	B-17	12
RCR07G153JM	81349	B-9	28	RCR07G241JM	81349	B-8	29
RCR07G153JM	81349	B-11	37	RCR07G241JM	81349	B-25	3
RCR07G161JM	81349	B-25	27	RCR07G270JM	81349	B-23	24
RCR07G181JM	81349	B-10	11	RCR07G271JM	81349	B-11	26
RCR07G181JM	81349	B-23	19	RCR07G271JM	81349	B-23	3
RCR07G182JM	81349	B-11	24	RCR07G271JM	81349	B-25	29
RCR07G182JM	81349	B-23	21	RCR07G272JM	81349	B-9	12
RCR07G183JM	81349	B-8	13	RCR07G273JM	81349	B-4	10
RCR07G183JM	81349	B-11	11	RCR07G273JM	81349	B-15	28
RCR07G201JM	81349	B-15	24	RCR07G273JM	81349	B-16	24
RCR07G201JM	81349	B-19	14	RCR07G273JM	81349	B-18	9
RCR07G201JM	81349	B-20	19	RCR07G301JM	81349	B-8	27
RCR07G202JM	81349	B-9	30	RCR07G301JM	81349	B-19	13
RCR07G203JM	81349	B-9	18	RCR07G302JM	81349	B-4	1
RCR07G203JM	81349	B-17	16	RCR07G302JM	81349	B-8	10
RCR07G203JM	81349	B-18	8	RCR07G302JM	81349	B-9	24
RCR07G203JM	81349	B-19	20	RCR07G303JM	81349	B-9	29
RCR07G220JM	81349	B-16	19	RCR07G330JM	81349	B-11	32

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
RCR07G330JM	81349	B-23	17	RCR07G510JM	81349	B-25	16
RCR07G331JM	81349	B-4	16	RCR07G511JM	81349	B-9	21
RCR07G332JM	81349	B-8	15	RCR07G512JM	81349	B-8	1
RCR07G332JM	81349	B-25	30	RCR07G512JM	81349	B-9	11
RCR07G333JM	81349	B-9	19	RCR07G561JM	81349	B-8	24
RCR07G363JM	81349	B-22	10	RCR07G680JM	81349	B-8	16
RCR07G391JM	81349	B-11	30	RCR07G680JM	81349	B-9	26
RCR07G391JM	81349	B-20	1	RCR07G681JM	81349	B-9	34
RCR07G433JM	81349	B-9	22	RCR07G682JM	81349	B-11	23
RCR07G471JM	81349	B-8	31	RCR07G750JM	81349	B-8	8
RCR07G471JM	81349	B-9	33	RCR07G752JM	81349	B-8	32
RCR07G471JM	81349	B-15	6	RCR07G752JM	81349	B-27	70
RCR07G471JM	81349	B-16	15	RCR07G822JM	81349	B-19	11
RCR07G471JM	81349	B-17	22	RCR20G100JM	81349	B-21	55
RCR07G471JM	81349	B-19	18	RCR20G101JM	81349	B-5	49
RCR07G471JM	81349	B-20	21	RCR20G101JS	81349	B-45	14
RCR07G471JM	81349	B-25	31	RCR20G101JS	81349	B-48	13
RCR07G472JM	81349	B-19	12	RCR20G102JS	81349	B-45	9
RCR07G473JM	81349	B-4	18	RCR20G102JS	81349	B-48	8
RCR07G473JM	81349	B-11	34	RCR20G103JS	81349	B-48	17
RCR07G473JM	81349	B-17	23	RCR20G150JM	81349	B-22	9
RCR07G473JM	81349	B-19	21	RCR20G2R7JM	81349	B-23	5
RCR07G510JM	81349	B-8	26	RCR20G332JS	81349	B-45	17
RCR07G510JM	81349	B-11	9	RCR20G362JM	81349	B-21	56
RCR07G510JM	81349	B-24	23	RCR20G471JM	81349	B-6	20

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
RCR20G472JS	81349	B-5	53	RC07GF103J	81349	B-16	84
RCR32G100JM	81349	B-6	19	RC07GF103J	81349	B-20	10
RCR32G150JS	81349	B-45	16	RC07GF104J	81349	B-8	18
RCR32G182JM	81349	B-5	53	RC07GF111J	81349	B-8	7
RCR32G221JS	81349	B-45	23	RC07GF113J	81349	B-11	10
RCR32G221JS	81349	B-48	6	RC07GF113J	81349	B-22	12
RCR32G222JS	81349	B-45	2	RC07GF123J	81349	B-20	15
RCR32G222JS	81349	B-48	1	RC07GF132J	81349	B-8	30
RC07GF100J	81349	B-22	16	RC07GF132J	81349	B-25	20
RC07GF101J	81349	B-8	25	RC07GF151J	81349	B-25	38
RC07GF101J	81349	B-11	29	RC07GF152J	81349	B-7	15
RC07GF101J	81349	B-23	22	RC07GF152J	81349	B-9	11
RC07GF101J	81349	B-24	25	RC07GF153J	81349	B-9	28
RC07GF101J	81349	B-25	5	RC07GF153J	81349	B-11	37
RC07GF102J	81349	B-4	17	RC07GF161J	81349	B-25	27
RC07GF102J	81349	B-8	28	RC07GF181J	81349	B-10	11
RC07GF102J	81349	B-9	15	RC07GF181J	81349	B-23	19
RC07GF102J	81349	B-11	18	RC07GF182J	81349	B-11	24
RC07GF102J	81349	B-17	5	RC07GF182J	81349	B-23	21
RC07GF102J	81349	B-18	7	RC07GF183J	81349	B-8	13
RC07GF102J	81349	B-19	23	RC07GF183J	81349	B-11	11
RC07GF102J	81349	B-23	14	RC07GF201J	81349	B-15	24
RC07GF103J	81349	B-8	14	RC07GF201J	81349	B-19	14
RC07GF103J	81349	B-9	13	RC07GF201J	81349	B-20	19
RC07GF103J	81349	B-15	19	RC07GF202J	81349	B-9	30

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
RC07GF203J	81349	B-9	18	RC07GF302J	81349	B-4	1
RC07GF203J	81349	B-17	16	RC07GF302J	81349	B-8	10
RC07GF203J	81349	B-18	8	RC07GF302J	81349	B-9	24
RC07GF203J	81349	B-19	20	RC07GF303J	81349	B-9	29
RC07GF220J	81349	B-16	19	RC07GF330J	81349	B-11	32
RC07GF220J	81349	B-20	14	RC07GF330J	81349	B-23	17
RC07GF221J	81349	B-9	32	RC07GF331J	81349	B-4	16
RC07GF221J	81349	B-25	6	RC07GF332J	81349	B-8	15
RC07GF222J	81349	B-4	7	RC07GF332J	81349	B-25	30
RC07GF222J	81349	B-8	22	RC07GF333J	81349	B-9	19
RC07GF223J	81349	B-4	12	RC07GF363J	81349	B-22	10
RC07GF223J	81349	B-17	12	RC07GF391J	81349	B-11	30
RC07GF241J	81349	B-8	29	RC07GF391J	81349	B-20	1
RC07GF241J	81349	B-25	3	RC07GF433J	81349	B-9	22
RC07GF270J	81349	B-23	24	RC07GF471J	81349	B-8	31
RC07GF271J	81349	B-11	26	RC07GF471J	81349	B-9	33
RC07GF271J	81349	B-23	3	RC07GF471J	81349	B-15	6
RC07GF271J	81349	B-25	29	RC07GF471J	81349	B-16	15
RC07GF272J	81349	B-9	12	RC07GF471J	81349	B-17	22
RC07GF273J	81349	B-4	10	RC07GF471J	81349	B-19	18
RC07GF273J	81349	B-15	28	RC07GF471J	81349	B-20	21
RC07GF273J	81349	B-16	24	RC07GF471J	81349	B-25	31
RC07GF273J	81349	B-18	9	RC07GF472J	81349	B-19	12
RC07GF301J	81349	B-8	27	RC07GF473J	81349	B-4	18
RC07GF301J	81349	B-19	13	RC07GF473J	81349	B-11	34

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
RC07GF473J	81349	B-17	23	RC20GF2R7J	81349	B-23	5
RC07GF510J	81349	B-8	26	RC20GF332J	81349	B-45	17
RC07GF510J	81349	B-11	9	RC20GF362J	81349	B-21	56
RC07GF510J	81349	B-24	23	RC20GF471J	81349	B-6	20
RC07GF510J	81349	B-25	16	RC32GF100J	81349	B-6	19
RC07GF511J	81349	B-9	21	RC32GF150J	81349	B-45	16
RC07GF512J	81349	B-8	1	RC32GF182J	81349	B-5	53
RC07GF561J	81349	B-8	24	RC32GF221J	81349	B-45	23
RC07GF680J	81349	B-8	16	RC32GF221J	81349	B-48	6
RC07GF680J	81349	B-9	26	RC32GF222J	81349	B-45	2
RC07GF681J	81349	B-9	34	RC32GF222J	81349	B-48	1
RC07GF682J	81349	B-11	23	RE65G1000	81349	B-43	1
RC07GF750J	81349	B-8	8	RE65G1000	81349	B-44	1
RC07GF752J	81349	B-8	32	RE65G2000	81349	B-46	1
RC07GF752J	81349	B-27	70	RE65G2000	81349	B-47	1
RC07GF822J	81349	B-19	11	RE70GR200	81349	B-43	26
RC20GF100J	81349	B-21	55	RE70GR200	81349	B-44	24
RC20GF101J	81349	B-5	49	RPCM1000	08742	B-22	8
RC20GF101J	81349	B-45	14	RPCS10	08742	B-23	13
RC20GF101J	81349	B-45	14	RPCS33	08742	B-15	5
RC20GF101J	81349	B-48	13	RG196A-U	81349	B-23	25
RC20GF102J	81349	B-45	9	RG196A-U	81349	B-29	4
RC20GF102J	81349	B-48	8	RG196A/U	81349	B-2	24
RC20GF103J	81349	B-48	17	RG196A/U	81349	B-7	27
RC20GF150J	81349	B-22	9	RG196A/U	81349	B-18	14

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
RG196A/U	81349	B-16	31	RW69V120	81349	B-27	73
RG196A/U	81349	B-20	8	RW69V821	81349	B-45	7
RG196A/U	81349	B-21	18	RW69V821	81349	B-48	7
RG196A/U	81349	B-25	45	RW79U1001F	81349	B-43	17
RLR20C681GM	81349	B-48	14	RW79U1001F	81349	B-44	13
RM108	08289	B-5	56	RW79U1001F	81349	B-46	7
RN65C1892D	81349	B-48	15	RW79U1001F	81349	B-47	10
RN70D1001F	81349	B-48	19	R125-8	70892	B-39	12
RN70D1151F	81349	B-45	19	SCB83314-2	98003	B-2	1
RN70D6810F	81349	B-45	18	SCB83314-2	98003	B-39	33
RST-SM31TUR-CD1	98291	B-5	45	SCM475BP020A2	01295	B-6	21
RSTSM1TUR-P2	98291	B-27	69	SDM304	08289	B-5	65
RSTSM23TUR	98291	B-3	27	SE53	61957	B-4	14
RT-794B/PRC-74	05869	B-1	3	SM8168-2	04713	B-4	2
RT-794B/PRC-74	05869	B-2		SOS440-20	46384	B-39	5
RT-794C/PRC-74	05869	B-1	3	SOS440-4	46384	B-21	34
RT-794C/PRC-74	05869	B-2		SOS440-4	46384	B-39	14
RW67G102	81349	B-45	12	SOS632-22	46384	B-6	16
RW67G102	81349	B-48	11	SPRAIN26AP1	77820	B-46	35
RW67V101	81349	B-43	62	SP2385	04713	B-6	6
RW67V101	81349	B-44	56	SRRA1N13AP1	77820	B-43	37
RW67V101	81349	B-46	61	SRRA1N13AP1	77820	B-44	35
RW67V101	81349	B-47	64	SRRA1N26AP1	77820	B-47	34
RW69VR56	81349	B-5	48	SX-2192	02288	B-25	10
RW69V1R5	81349	B-22	17	SX2193	02288	B-8	35

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
S0S440-12	46384	B-21	45	UK10-503	71590	B-8	9
S0S440-20	46384	B-12	42	UK10-503	71590	B-25	17
S0S440-22	46384	B-12	45	U229U	81349	B-32	5
S0S440-24	46384	B-18	6	VE10617	03550	B-20	20
S0S440-24	46384	B-21	46	VE10618	03550	B-20	16
S0S440-4	46384	B-3	3	VE10619	03550	B-9	7
S0S632-16	46384	B-3	1	VE13099	03550	B-25	32
TE12273	78790	B-42	4	VE13421	03550	B-20	3
TE12274	78790	B-43	58	V24-1BLK-996939	08730	B-27	2
TE12274	78790	B-44	48	V25-1BLK-996939	08730	B-27	7
TE12274	78790	B-46	57	V25-2BLK-996939	08730	B-27	58
TE12274	78790	B-47	60	X2051B	71279	B-5	34
TE1305	56289	B-5	44	X663F-100MF10	84411	B-21	57
TM1-4-18KPORM5	96214	B-4	8	PCT-100V			
PCT				X663F-100MF10	84411	B-22	18
TXB2P019-028B	98978	B-25	20	PCT100V			
TXB2P032-037	98978	B-5	47	X663F-100MF10	84411	B-45	3
TXSP033-047	98978	B-43	61	PCT100V			
TXSP033-047	98978	B-44	55	X663F-100MF10	84411	B-48	2
TXSP033-047	98978	B-46	60	PCT100V			
TXSP033-047	98978	B-47	63	1-4-4	95987	B-3	33
TYPE2OLIVEDRAB7	81349	B-33	14	1-8-4	95987	B-3	37
UG1460U	81349	B-10	15	1-8-4	95987	B-43	54
UG1461U	81349	B-10	16	1N995	03877	B-45	22
UG1619/U	81349	B-25	7	10-36675-10	77820	B-39	19

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
10044DAP	07047	B-8	38	10625	03550	B-18	3
10044DAP	07047	B-9	2	10626	03550	B-18	13
10044DAP	07047	B-15	22	10627	03550	B-19	8
10044DAP	07047	B-17	13	10628	03550	B-19	2
10044DAP	07047	B-18	14	10629	03550	B-15	27
10044DAP	07047	B-19	10	10630	03550	B-16	22
10079DAP	07047	B-23	16	10634	03550	B-25	33
10079DAP	07047	B-45	6	1065-1002	18915	B-43	32
10079DAP	07047	B-48	5	1065-1002	18915	B-44	29
10105	07047	B-8	46	1065-1002	18915	B-46	26
10109DAP	07047	B-17	13	1065-1002	18915	B-47	25
10109DAP	07047	B-19	10	11SM1	91929	B-27	36
10194DAP	07047	B-4	3	11154	14140	B-16	3
10194DAP	07047	B-16	17	12NCFMA1-62	13257	B-11	35
10194DAP	07047	B-20	12	1208B2	88245	B-3	25
1020	08145	B-43	14	126-195	02660	B-32	11
1020	08145	B-47	12	12892B4	88245	B-21	49
1020-4-4	26365	B-3	16	1300T4	88245	B-5	34
105-302	74970	B-33	3	13236	03550	B-26	1
105-303	74970	B-33	10	13237	03550	B-26	27
10620	03550	B-8	36	13238	03550	B-26	8
10621	03550	B-8	45	13239	03550	B-26	26
10622	03558	B-8	44	13240	03550	B-26	25
10623	03558	B-8	42	13241	03550	B-26	11
10624	03550	B-17	20	13242	03550	B-26	24

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
13243	03550	B-26	23	1540902	05869	B-2	22
13244	03550	B-26	13	1540905	05869	B-3	23
13246	03550	B-26	21	1540906	05869	B-3	17
13247	03550	B-26	15	1540906-097	05869	B-3	32
13248	03550	B-26	17	1540906-098	05869	B-3	7
13422	03550	B-26	10	1540906-099	05869	B-3	22
13423	03550	B-26	12	1540907	05869	B-3	14
13424	03550	B-26	14	1540907	05869	B-4	
1343-2	06416	B-22	6	1540908	05869	B-4	15
13431	03550	B-26	20	1540911-001	05869	B-5	28
13443	03550	B-21	53	1540911-002	05869	B-7	8
13444	03550	B-21	59	1540911-009	05869	B-36	10
13452	03550	B-21	21	1540911-010	05869	B-35	1
137	77969	B-42	50	1540911-012	05869	B-32	3
14-32-26	23086	B-7	25	1540912	05869	B-27	56
14B52600P06	16333	B-6	23	1540913	05869	B-27	54
1430	71785	B-5	36	1540915	05869	B-27	34
14900	88245	B-27	29	1540917-001	05869	B-5	23
1521	65092	B-46	15	1540917-001	05869	B-27	5
1521	03611	B-47	43	1540917-002	05869	B-27	6
1540369	05869	B-33	12	1540917-003	05869	B-27	22
1540901	05869	B-2	4	1540918	05869	B-28	6
1540901-095	05869	B-2	3	1540919	05869	B-12	30
1540901-096	05869	B-2	6	1540919	05869	B-24	13
1540901-097	05869	B-2	5	1540922	05869	B-27	24

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1540923	05869	B-27	61	1540963	05869	B-12	57
1540924	05869	B-27	62	1540965	05869	B-5	7
1540925-002	05869	B-27	63	1540966	05869	B-5	21
1540926	05869	B-27	19	1540967	05869	B-5	32
1540927	05869	B-27	16	1540967	05869	B-6	
1540928	05869	B-27	21	1540968-001	05869	B-6	3
1540936	05869	B-27	40	1540968-002	05869	B-6	17
1540937	05869	B-27	78	1540969	05869	B-6	15
1540940	05869	B-27	80	1540970	05869	B-7	11
1540941	05869	B-18	16	1540972	05869	B-7	1
1540942	05869	B-27	41	1540973	05869	B-7	16
1540943	05869	B-27	60	1540974	05869	B-7	23
1540946-001	05869	B-27	65	1540975	05869	B-7	14
1540950	05869	B-27	26	1540975	05869	B-9	
1540951	05869	B-27	66	1540977	05869	B-7	19
1540952	05869	B-27	39	1540977	05869	B-8	
1540952	05869	B-28		1540978	05869	B-8	47
1540953	05869	B-28	8	1540979	05869	B-7	7
1540954	05869	B-28	2	1540979-097	05869	B-7	22
1540955	05869	B-28	3	1540980	05869	B-10	7
1540956	05869	B-28	1	1540982	05869	B-10	5
1540957	05869	B-28	11	1540983	05869	B-10	6
1540958	05869	B-5	26	1540983	05869	B-11	
1540959	05869	B-5	2	1540984	05869	B-11	14
1540961	05869	B-5	20	1540989	05869	B-12	2

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1540990	05869	B-12	38	1541032	05869	B-24	15
1540991	05869	B-12	37	1541033	05869	B-24	19
1540991	05869	B-18		1541033	05869	B-25	24
1540992	05869	B-12	7	1541042	05869	B-25	44
1540992	05869	B-17		1541044	05869	B-41	6
1540993	05869	B-17	25	1541045	05869	B-41	4
1540994	05869	B-12	8	1541046	05869	B-41	8
1540994	05869	B-13		1541047	05869	B-41	11
1540995	05869	B-13	8	1541048	05869	B-41	10
1540996	05869	B-13	18	1541049	05869	B-41	9
1540998	05869	B-13	11	1541053-100	05869	B-2	11
1540998	05869	B-14	10	1541053-100	05869	B-5	
1540999	05869	B-14	7	1541053-101	05869	B-2	11
1541000	05869	B-12	39	1541053-101	05869	B-5	
1541000	05869	B-19		1541054-100	05869	B-2	12
1541001	05869	B-19	22	1541054-100	05869	B-7	
1541002	05869	B-12	1	1541054-101	05869	B-2	12
1541002	05869	B-15		1541054-101	05869	B-7	
1541003	05869	B-15	1	1541055-101	05869	B-2	19
1541004	05869	B-15	29	1541055-101	05869	B-10	
1541006	05869	B-20	22	1541055-102	05869	B-2	19
1541017	05869	B-21	31	1541055-102	05869	B-10	
1541026	05869	B-25	22	1541069-100	05869	B-41	
1541030	05869	B-26	28	1541081	05869	B-33	19
1541031	05869	B-24	4	1541082-002	05869	B-33	13

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1541083	05869	B-33	4	1541126-096	05869	B-42	40
1541087	05869	B-36	1	1541126-097	05869	B-42	47
1541087-094	05869	B-36	6	1541126-098	05869	B-42	49
1541087-095	05869	B-36	8	1541127	05869	B-42	42
1541087-096	05869	B-36	2	1541127-098	05869	B-42	43
1541087-097	05869	B-36	15	1541127-099	05869	B-42	44
1541087-098	05869	B-36	9	1541128-101	05869	B-42	7
1541087-099	05869	B-36	5	1541128-101	05869	B-46	
1541110	05869	B-42	52	1541128-102	05869	B-42	7
1541111	05869	B-42	53	1541128-102	05869	B-47	
1541114	05869	B-45	1	1541129-003	05869	B-44	33
1541114	05869	B-48	21	1541129-004	05869	B-46	30
1541117	05869	B-42	34	1541131-001	05869	B-31	10
1541117-098	05869	B-42	66	1541131-002	05869	B-31	1
1541117-099	05869	B-42	71	1541131-003	05869	B-31	21
1541118	05869	B-46	11	1541131-004	05869	B-31	24
1541119	05869	B-44	10	1541131-005	05869	B-31	18
1541122	05869	B-42	9	1541504	05869	B-41	12
1541122-099	05869	B-42	48	1541504-098	05869	B-41	13
1541123	05869	B-42	33	1541504-099	05869	B-41	14
1541125-101	05869	B-42	8	1549962	05869	B-32	6
1541125-101	05869	B-44		1550161-100	05869	B-2	13
1541125-102	05869	B-42	8	1550161-100	05869	B-3	
1541125-102	05869	B-43		1550161-101	05869	B-2	13
1541126	05869	B-42	45	1550161-101	05869	B-3	

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1550162-100	05869	B-2	15	1557783	05869	B-27	74
1550162-100	05869	B-12		1557784	05869	B-27	77
1550162-101	05869	B-2	15	1557785	05869	B-27	83
1550162-101	05869	B-12		1557788	05869	B-27	51
1550163-100	05869	B-2	17	1557789	05869	B-27	53
1550163-100	05869	B-24		1557798	05869	B-27	43
1550163-101	05869	B-2	17	1557798-099	05869	B-27	45
1550163-101	05869	B-24		1558049	05869	B-16	4
1550164-100	05869	B-2	18	1558050	05869	B-16	37
1550164-100	05869	B-21		1558189	05869	B-16	2
1550164-101	05869	B-2	18	1558190	05869	B-16	29
1550164-101	05869	B-21		1558218	05869	B-38	8
1554307	05869	B-22	21	15 J219	05869	B-38	6
1554389	05869	B-21	19	1558220-001	05869	B-37	3
1555108	05869	B-32	12	1558220-002	05869	B-37	2
1557527-001	05869	B-31	13	1558220-099	05869	B-39	2
1557527-002	05869	B-31	8	1558221	05869	B-37	4
1557527-003	05869	B-31	23	1558221	05869	B-40	
1557527-004	05869	B-31	29	1558381	05869	B-21	24
1557527-005	05869	B-31	20	1558382	05869	B-27	27
1557636	05869	B-16	59	1558382-099	05869	B-27	28
1557637	05869	B-16	10	1558383	05869	B-16	8
1557780	05869	B-27	86	1558384	05869	B-21	6
1557781	05869	B-27	87	1558384	05869	B-23	
1557782	05869	B-27	76	1558385	05869	B-23	29

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1558387	05869	B-21	28	1559162	05869	B-24	21
1558387	05869	B-22		1559206	05869	B-38	1
1558388	05869	B-34	2	1559243	05869	B-16	23
1558388-087	05869	B-34	19	1559345	05869	B-12	49
1558388-088	05869	B-34	17	1559345	05869	B-16	
1558388-090	05869	B-34	21	1559348	05869	B-3	2
1558388-091	05869	B-34	14	1559348	05869	B-3	35
1558388-092	05869	B-34	5	1559348	05869	B-27	
1558388-093	05869	B-34	18	1559405	05869	B-27	47
1558388-094	05869	B-34	7	1559592	05869	B-16	9
1558388-095	05869	B-34	8	1559593	05869	B-16	42
1558388-096	05869	B-34	11	1559611	05869	B-37	1
1558388-098	05869	B-34	3	1559611	05869	B-38	
1558388-099	05869	B-34	15	1559612	05869	B-38	1
1559158	05869	B-24	5	1559825	05869	B-12	41
1559158	05869	B-26		1559825	05869	B-20	
1559159	05869	B-12	48	1559878	05869	B-23	7
1559160	05869	B-24	20	1559927	05869	B-12	9
1559160	05869	B-25		1559927	05869	B-14	
1559161-003	05869	B-10	9	1559943	05869	B-21	7
1559161-004	05869	B-12	28	1560017	05869	B-33	5
1559161-005	05869	B-21	35	1560018	05869	B-33	6
1559161-016	05869	B-24	10	1560019	05869	B-27	55
1559161-007	05869	B-3	4	1560019	05869	B-29	
1559161-011	05869	B-34	1	1560186	05869	B-10	18

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1560279	05869	B-39	7	1592641	05869	B-12	22
1560279-099	05869	B-39	11	1592663	05869	B-42	6
1567588	05869	B-2	16	1594445	05869	B-28	11
1568404	05869	B-5	3	1594446	05869	B-28	1
1569409	05869	B-28	3	15945	03550	B-25	33
1573401	05869	B-33	3	15946	03550	B-21	21
1573402	05869	B-33	6	15947	03550	B-8	36
1576163	05869	B-24	9	15948	03550	B-0	43
1576456	05869	B-27	67	15949	03550	B-0	44
1579203	05869	B-42	52	15950	03550	B-8	42
1579217	05869	B-24	30	15951	03550	B-17	20
15834STRIKE	14608	B-39	32	15952	03550	B-18	3
1591818	05869	B-38	2	15953	03550	B-10	13
1591819	05869	B-42	2	15955	03550	B-19	2
1592128	05869	B-44	7	15956	03550	B-15	27
1592128	05869	B-46	9	15957	03550	B-16	22
1592129	05869	B-46	8	15961	03550	B-26	1
1592130	05869	B-44	6	15962	03550	B-26	27
1592131	05869	B-46	16	1596280	05869	B-3	2
1592131	05869	B-48		1596200	05869	B-3	35
1592132	05869	B-44	15	1596206	05869	B-27	
1592132	05869	B-45		1596201	05869	B-27	39
1592625	05869	B-42	3	1596201	05869	B-28	
1592633	05869	B-10	8	1596282	05869	B-3	17
1592640	05869	B-16	11	1596202-097	05869	B-3	37

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1596202-098	05869	B-3	7	1596379	05869	B-3	14
1596202-099	05869	B-3	22	1596379	05869	B-4	
1596203	05869	B-28	6	1596380	05869	B-16	4
1596205	05869	B-37	1	1596381	05869	B-16	9
1596205	05869	B-38		1596382	05869	B-24	21
1596207	05869	B-39	38	1596383	05869	B-16	2
1596208	05869	B-39	26	1596384	05869	B-24	5
1596209-001	05869	B-39	28	1596384	05869	B-26	
1596209-002	05869	B-39	27	1596385	05869	B-5	20
1596210	05869	B-39	34	1596386	05869	B-10	6
15963	03550	B-26	8	1596386	05869	B-11	
1596357	05869	B-24	20	15964	03550	B-26	10
1596357	05869	B-25		1596408	05869	B-7	19
1596358	05869	B-12	48	1596408	05869	B-8	
1596359	05869	B-21	24	1596409	05869	B-7	7
1596360	05869	B-16	10	1596409-097	05869	B-7	22
1596361	05869	B-6	15	1596410	05869	B-12	9
1596362	05869	B-5	32	1596410	05869	B-14	
1596362	05869	B-6		1596411	05869	B-12	8
1596377	05869	B-2	4	1596411	05869	B-13	
1596377-96	05869	B-2	6	1596412	05869	B-12	49
1596377-97	05869	B-2	5	1596412	05869	B-16	
1596377-98	05869	B-2	3	1596413	05869	B-21	6
1596378	05869	B-12	41	1596413	05869	B-23	
1596378	05869	B-20		1596414	05869	B-7	14

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
1596414	05869	B-9		15965	03550	B-26	26
1596415	05869	B-12	39	1596517	05869	B-39	20
1596415	05869	B-19		1596517-099	05869	B-39	22
1596416	05869	B-12	7	1596569	05869	B-12	57
1596416	05869	B-17		1596570	05869	B-4	15
1596417	05869	B-21	28	1596571	05869	B-5	21
1596417	05869	B-22		1596575	05869	B-8	47
1596418	05869	B-12	37	1596577	05869	B-16	37
1596418	05869	B-18		1596578	05869	B-23	29
1596419	05869	B-15	29	1596579	05869	B-17	25
1596421	05869	B-37	4	1596580	05869	B-16	29
1596421	05869	B-40		1596583	05869	B-22	21
1596422	05869	B-38	6	1596587	05869	B-16	42
1596480-001	05869	B-10	9	1596589	05869	B-16	59
1596480-002	05869	B-3	4	1596591	05869	B-20	22
1596480-003	05869	B-12	28	1596592	05869	B-18	16
1596480-004	05869	B-24	10	1596599	05869	B-19	22
1596480-005	05869	B-21	35	15966	03550	B-26	25
1596480-006	05869	B-5	28	1596619	05869	B-2	16
1596480-007	05869	B-7	8	1596621	05869	B-11	14
1596481	05869	B-7	16	15967	03550	B-26	11
1596482	05869	B-15	1	1596767	05869	B-12	1
1596483-001	05869	B-12	52	1596767	05869	B-15	
1596483-002	05869	B-12	26	1596768	05869	B-25	22
1596483-002	05869	B-21	11	15968	03550	B-26	12

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
15969	03550	B-26	24	1598564-1	05869	B-43	34
15970	03550	B-26	23	1598564-2	05869	B-47	29
15971	03550	B-26	13	1598626	05869	B-2	7
15972	03550	B-26	14	1598626	05869	B-40	1
15973	03550	B-26	21	160-107	74970	B-12	54
15974	03550	B-26	20	160-110	74970	B-12	55
15975	03550	B-26	15	1600885	05869	B-24	29
15976	03550	B-26	17	1600886	05869	B-24	31
1598019	05869	B-13	11	1602157	05869	B-24	6
1598059	05869	B-43	11	1602329	05869	B-40	3
1598059	05869	B-47	15	164-182-1001	02660	B-32	9
1598060	05869	B-43	12	164-183-1001	02660	B-27	25
1598061	05869	B-43	19	17291-7-175	11139	B-5	4
1598061	05869	B-45		1757-10	73293	B-13	3
1598062	05869	B-47	11	1757-11	73293	B-13	4
1598063	05869	B-47	16	1757-2	73293	B-13	1
1598063	05869	B-48		1757-3	73293	B-13	5
1598064	05869	B-42	9	1757-4	73293	B-13	6
1598065	05869	B-42	45	1757-5	73293	B-13	7
1598066	05869	B-42	2	1757-6	73293	B-13	10
1598067-001	05869	B-31	10	1757-7	73293	B-13	12
1598067-002	05869	B-31	1	1757-8	73293	B-13	13
1598067-003	05869	B-31	21	1757-9	73293	B-13	14
1598067-005	05869	B-31	18	176S500OHMPORM5	17826	B-22	15
1598111	05869	B-13	8	PCT			

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
180-401	29238	B-8	46	2010B2	88245	B-9	1
2-00219	25656	B-6	14	2010B2	88245	B-13	17
2-269C267-5	83259	B-27	42	2010B2	88245	B-14	8
2-270-C267-5	83259	B-37	5	2010B2	88245	B-15	8
2-295	94222	B-42	30	2010B2	88245	B-16	27
2N3338	07910	B-8	43	2010B2	88245	B-17	4
2N3339	07263	B-25	19	2010B2	88245	B-18	5
2N706A	04713	B-8	41	2010B2	88245	B-20	4
2N706A	04713	B-16	18	2010B2	88245	B-22	2
2RB180	56007	B-42	67	2010B2	88245	B-23	4
2S1938NRHFJNB	90484	B-23	11	202-2A	16179	B-7	25
20AWG4201THIN	75037	B-5	42	2030A2	88245	B-11	5
PTFE				2100-80Z	10266	B-33	11
20AWG4201THIN	75037	B-19	19	2104-10-00	78189	B-6	27
PTFEWHITE				212806A1	76854	B-46	37
20AWG4201THIN	75037	B-25	9	212806A1	76854	B-47	37
PTFE				2168-12-01	78189	B-12	23
20AWG4201THIN-	75037	B-8	48	22AWG4201THIN	75037	B-20	18
PTFE				PTFE			
20A. 4201THINPT	75037	B-11	22	22AWG4201TNIN	75037	B-24	22
FEWHITE				PTFE			
20AWG4201THIN	75037	B-6	10	22AWG4201TNIN	75037	B-26	6
PTFEWHITE				PTFE			
2010B2	88245	B-4	4	22A27M22-40	72962	B-5	13
2010B2	88245	B-8	34	22A27M22-40	72962	B-7	20

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
22A27M22-40	72962	B-12	11	PTFEWHITE			
22LHA27M22-62	13257	B-12	46	24AWG4201THIN-	75037	B-16	1
22NCFMA1-26	13257	B-12	3	PTFEWHITE			
22NCFMA1-40	13257	B-11	13	24AWG4201THIN-	75037	B-21	36
22NCFMA2-40	13257	B-3	6	PTFEWHITE			
22NTM26	13257	B-27	31	24AWG4201THIN	75037	B-6	9
238792F1	76854	B-27	15	PTFEWHITE			
24A	76545	B-31	26	2404-06-01	78189	B-5	36
24AWG201THIN	75037	B-20	5	255748AM2	76854	B-13	2
PTFE				25680-7P	11139	B-42	15
24AWG4201THIN	75037	B-5	41	257	83330	B-33	23
PTFE				257348A1	76854	B-15	3
24AWG4201THIN	75037	B-13	15	258025AM1	76854	B-14	15
PTFEWHITE				26-BLACK	76545	B-31	27
24AWG4201THIN	75037	B-19	15	26-RED	76545	B-31	28
PTFEWHITE				270201A6	76854	B-24	26
24AWG4201THIN	75037	B-24	24	287A	91984	B-12	16
PTFE				2950	91293	B-17	1
24AWG4201THIN	75037	B-25	8	3-16-4	95987	B-3	26
PTFE				3-16-4	95987	B-47	39
24AWG4201THIN	75037	B-26	6	3-32-4	95987	B-43	18
PTFE				-8-3	95987	B-42	1
24AWG4201THIN-	75037	B-14	14	3-8-3	95987	B-43	10
PTFEWHITE				3-8-3	95987	B-47	6
24AWG4201THIN-	75037	B-15	2	300800	28483	B-10	10

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301002	75915	B-5	12	36D822G025AC2A	56289	B-47	23
30107-5	75915	B-5	6	38416	86684	B-43	74
30131	21645	B-6	18	38416	86684	B-44	69
31252	00779	B-34	13	38416	86684	B-46	74
32D302G025AC6B	56289	B-43	27	38416	86684	B-47	76
32D302G025AC6B	56289	B-44	25	390032-12	73293	B-39	35
32D562G050CC6B	56289	B-44	28	399907	76854	B-12	31
32D562G050CC6B	56289	B-46	24	4B44	00136	B-7	17
321288	00779	B-27	13	4025-3-01-19	03624	B-21	47
3222	21645	B-8	40	411-1904JJ4	75382	B-12	53
3290P1-102	80294	B-9	4	411H8	75382	B-3	36
3290P1-103	80294	B-8	17	411JJ1	75382	B-21	15
3290P1-201	80294	B-9	8	411JJ10	75382	B-3	19
3300P1-202	80294	B-4	6	411JJ3	75382	B-10	12
330837	00779	B-10	13	411JJ4	75382	B-25	39
330837	00779	B-21	4	411JJ7	75382	B-21	1
330837	00779	B-25	40	41656	18342	B-35	3
330837	00779	B-29	1	4182-3-01-19	03624	B-21	48
330838	00779	B-5	25	44007-7P	11139	B-41	1
330838	00779	B-7	30	44007-70	11139	B-39	18
330838	00779	B-27	12	45-C	76545	B-31	15
330838	00779	B-29	3	462	83330	B-34	10
3544-14-02	30323	B-41	15	47-BLACK	76545	B-31	17
357009	75915	B-42	64	47-RED	76545	B-31	16
36D822G025AC2A	56289	B-46	23	5-16-3	95987	B-43	6

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5C023104X0250B3	56289	B-25	14	520	79963	B-46	65
5C023104X0500B3	56289	B-5	46	520	79963	B-47	68
5C023104X0500B3	56289	B-8	4	538-003-110D	72982	B-26	3
5C023104X0500B3	56289	B-12	21	538-003E2P0-94R	72982	B-26	3
5C023104X0500B3	56289	B-21	54	54-58-306-24	56007	B-44	9
5C023104X0500B3	56289	B-22	1	54-58-306-24	56007	B-46	10
5C023104X500B3	56289	B-23	1	5607-20	86928	B-5	60
50-307-3196	98291	B-2	25	5607-20	86928	B-6	24
50-307-3196	98291	B-20	7	5607-21	86928	B-6	24
50-307-3196	98291	B-21	29	5608-10	86928	B-5	5
50-307-3196	98291	B-23	26	5608-15	86928	B-5	62
50-310-3196	98291	B-25	18	6AWG-TY-FGR-B-	81349	B-11	21
50-311-3196	98291	B-2	23	CL1-CAT1			
50-9-287-103	02111	B-11	19	610915	00141	B-27	79
501000-1	00538	B-5	37	6259-1	77969	B-42	41
501000-2	00538	B-5	40	62764	02735	B-5	55
5090	91293	B-24	6	7C023103X0500D	56289	B-4	13
51L83-1-1AA	71286	B-2	7	7C023103X0500D	56289	B-9	5
51L83-1-1AA	71286	B-40	1	7C023103X0500D	56289	B-25	1
517875-3	23667	B-42	39	7C023103X500D	56289	B-8	21
517875-3ANODIC	23667	B-42	39	70048	05254	B-20	3
520	79963	B-5	57	7055G	74545	B-31	22
520	79963	B-42	75	7091	74545	B-31	25
520	79963	B-43	66	7092D11539N0	74545	B-31	12
520	79963	B-44	60	71C671	99392	B-43	30

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71C671	99392	B-47	28	79NTM40	72962	B-41	5
711451-002	94033	B-21	20	79NTM40	72962	B-10	19
719500-1	44655	B-43	39	79NTM40	72962	B-42	28
722248-052	05869	B-44	45	79NTM82	13257	B-27	64
722248-052	05869	B-46	51	82-32-101-17	56007	B-42	65
722248-52	05869	B-43	49	8415	70903	B-32	13
722248-52	05869	B-47	55	89-0574	81483	B-5	51
732-734A	08530	B-43	71	90503	05649	B-34	16
732-734A	08530	B-44	66	93310	03550	B-11	8
732-734A	08530	B-46	71	9509BB0256-14	06540	B-16	30
732-734A	08530	B-47	73	951-15542	77221	B-27	9
760173-4	06090	B-5	24	97-66-28BLACK	72825	B-27	8
760173-4	06090	B-7	29	97-66-28RED	72825	B-27	10
760173-4	06090	B-10	17	9766-28UBBLACK	00629	B-27	8
760173-4	06090	B-17	9	9766-28URED	00629	B-27	10
760173-4	06090	B-20	6	995057-009	09795	B-13	15
760173-4	06090	B-21	5	995057-009	09795	B-14	14
760173-4	06090	B-23	23	995057-009	09795	B-15	2
760173-4	06090	B-25	23	995057-009	09795	B-16	1
760173-4	06090	B-27	11	995057-009	09795	B-21	36
760173-4	06090	B-29	2	995057-029	09795	B-5	41
760293-004	05869	B-33	9	995057-029	09795	B-6	9
760293-005	05869	B-39	15	995057-029	09795	B-7	28
760293-5	96904	B-33	2	995057-029	09795	B-8	48
770-RP	98021	B-39	31	995057-029	09795	B-11	22

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995057-029	09795	B-19	7	996568-009	73293	B-14	13
995057-029	09795	B-27	11	996568-010	73293	B-14	1
995057-029	09795	B-45	15	996568-011	73293	B-14	2
995057-029	09795	B-48	16	996569-002	73293	B-15	11
995057-040	09795	B-6	7	996569-003	73293	B-15	12
995546-001	22224	B-19	16	996569-004	73293	B-15	13
995606-005	82577	B-12	50	996569-005	73293	B-15	14
996567-002	73293	B-13	1	996569-006	73293	B-15	15
996567-002	73293	B-17	10	996569-007	73293	B-15	16
996567-003	73293	B-13	5	996569-008	73293	B-15	18
996567-004	73293	B-13	6	996569-009	73293	B-15	17
996567-005	73293	B-13	7	996569-010	73293	B-15	10
996567-006	73293	B-13	10	996569-010	73293	B-16	53
996567-007	73293	B-13	12	996569-011	73293	B-15	9
996567-008	73293	B-13	13	996569-012	73293	B-16	48
996567-009	73293	B-13	14	996569-013	73293	B-16	47
996567-010	73293	B-13	3	996569-014	73293	B-16	46
996567-011	73293	B-13	4	996569-015	73293	B-16	45
996568-002	73293	B-14	3	996569-016	73293	B-16	44
996568-003	73293	B-14	4	996569-017	73293	B-16	43
996568-004	73293	B-14	5	996569-018	73293	B-16	58
996568-005	73293	B-14	6	996569-019	73293	B-16	57
996568-006	73293	B-14	9	996569-020	73293	B-16	56
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996569-026	73293	B-16	49	996926-93	05436	B-33	7
996572-081	73293	B-7	17	996944-001	05046	B-12	32
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5305-00-068-6532		B-21	30	5310-00-734-5661		B-25	26
5305-00-068-6532		B-24	17	5310-00-734-5661		B-25	43
5305-00-068-6532		B-25	25	5310-00-734-5661		B-39	9
5305-00-362-3206		B-43	73	5820-00-973-1732		B-1	12
5305-00-362-3206		B-47	75	5935-00-963-0124		B-20	7
5305-00-487-6354		B-3	21	5935-00-963-0124		B-21	29
5305-00-487-6354		B-10	4	5995-00-476-9511		B-39	35
5305-00-579-3021		B-7	3	6135-00-156-3934		B-1	9
5305-00-579-3021		B-10	2	6135-00-156-3934		B-37	
5310-00-584-3782		B-12	14	CY6314APRC74	00058	B-37	
5310-00-616-3555		B-5	17	MS15795-803	96906	B-44	22
5310-00-616-3555		B-21	17	MS15795-803	96906	B-46	34
5310-00-632-6721		B-39	10	MS21318-8	96906	B-38	3
5310-00-734-5661		B-5	10	SMB447440	80063	B-1	12
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By Order of the Secretary of the Army:

WILLIAM C. WESTMORELAND,
General, United States Army,
Chief of Staff.

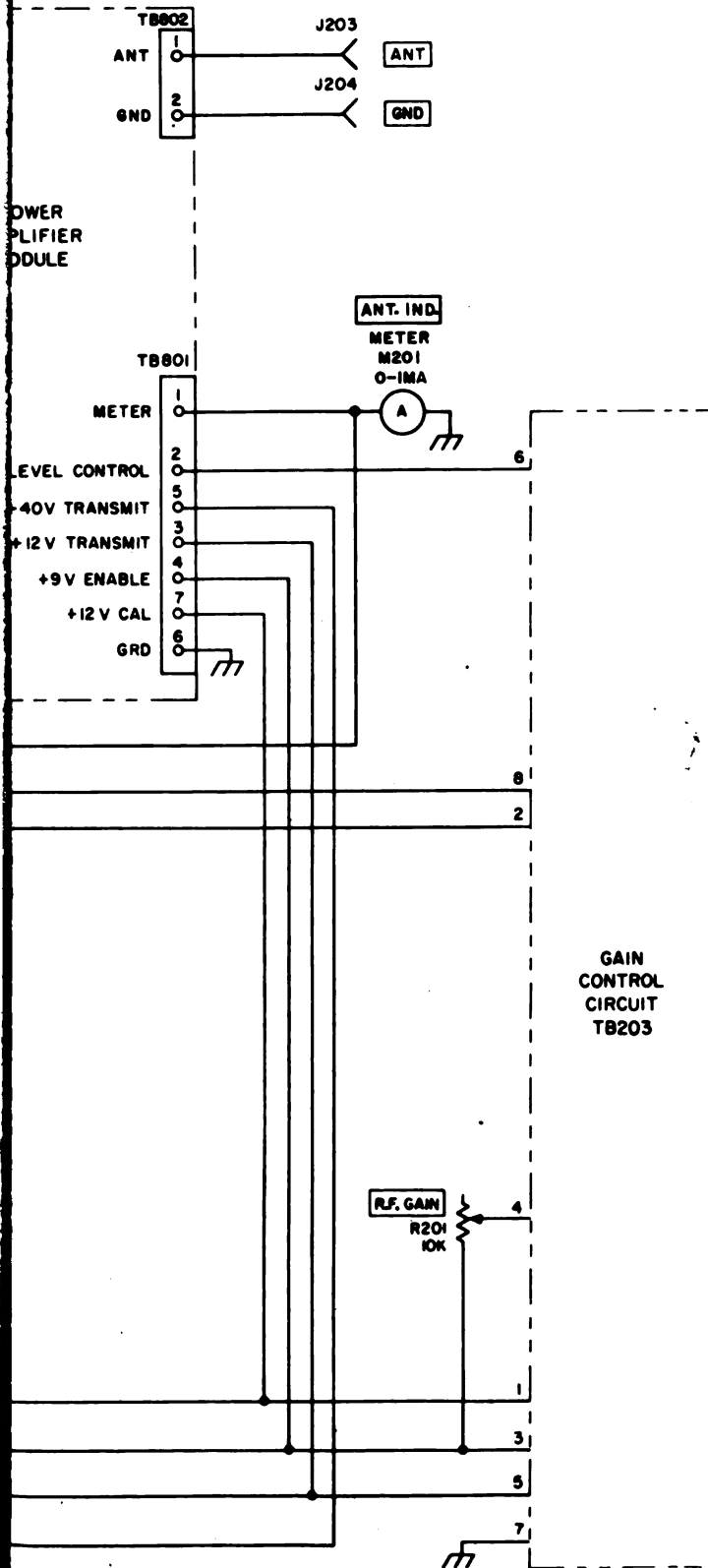
Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

Distribution:

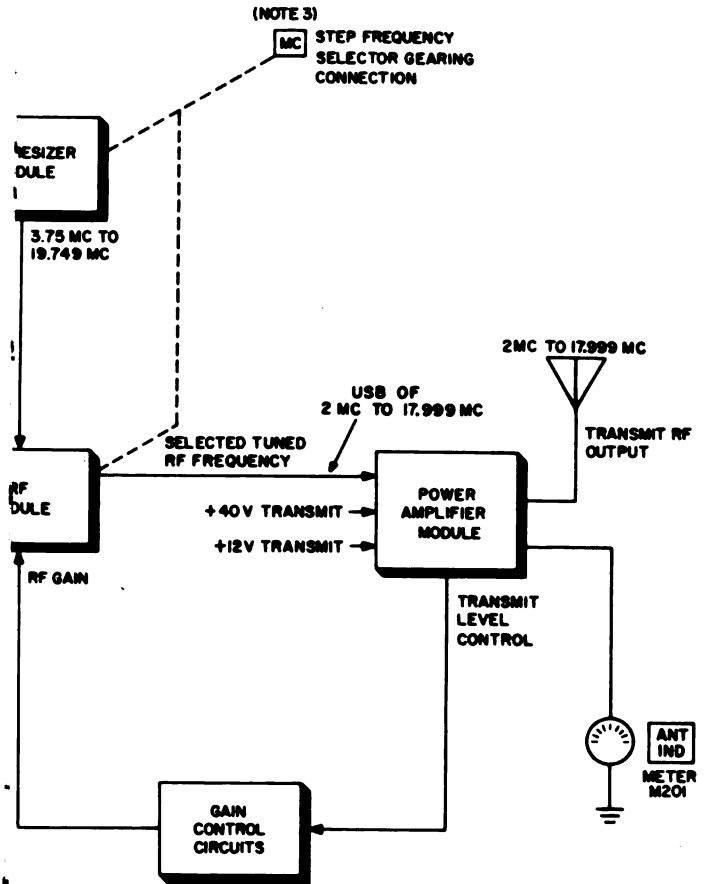
To be distributed in accordance with DA Form 12-51 (qty rqr Block #851) requirements for Direct and General Support maintenance, AN/PRC-74 Radio Set.

☆ U.S. GOVERNMENT PRINTING OFFICE : 1991 O - 281-486 (42859)



NOTES:

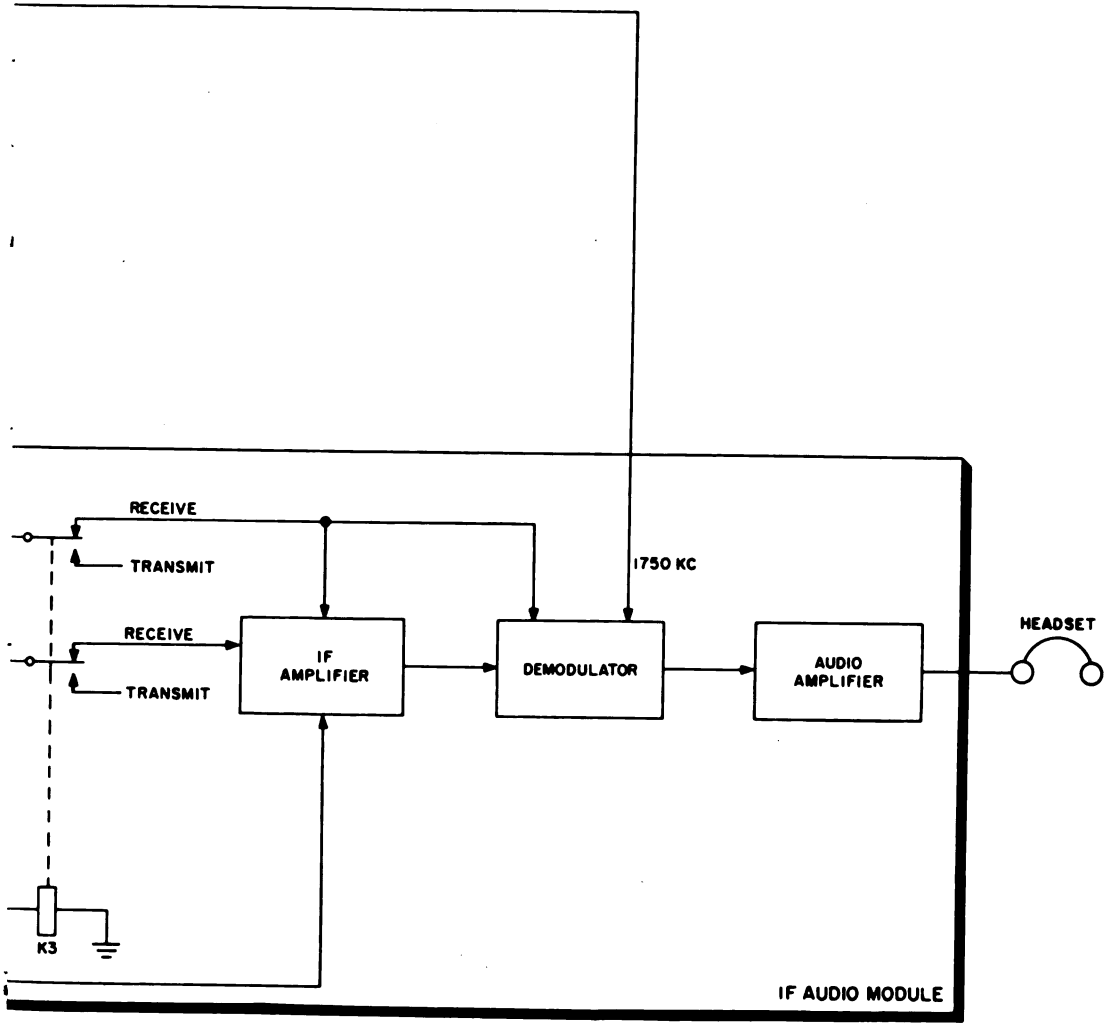
1. UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE VALUES ARE IN OHMS, ALL CAPACITANCE VALUES ARE .01 UF.
2. INDICATES EQUIPMENT MARKING
3. AN/PRC-74C EQUIPMENT MARKED IN HERTZ (HZ) INSTEAD OF CYCLES (C)




NOTES:

1. INDICATES EQUIPMENT MARKING
2. KEYING MAY BE EFFECTED BY AUTOMATIC KEYS KY-468/ORA-71
3. AN/PRC-74C EQUIPMENT MARKED IN HERTZ (HZ) INSTEAD OF CYCLES (C).

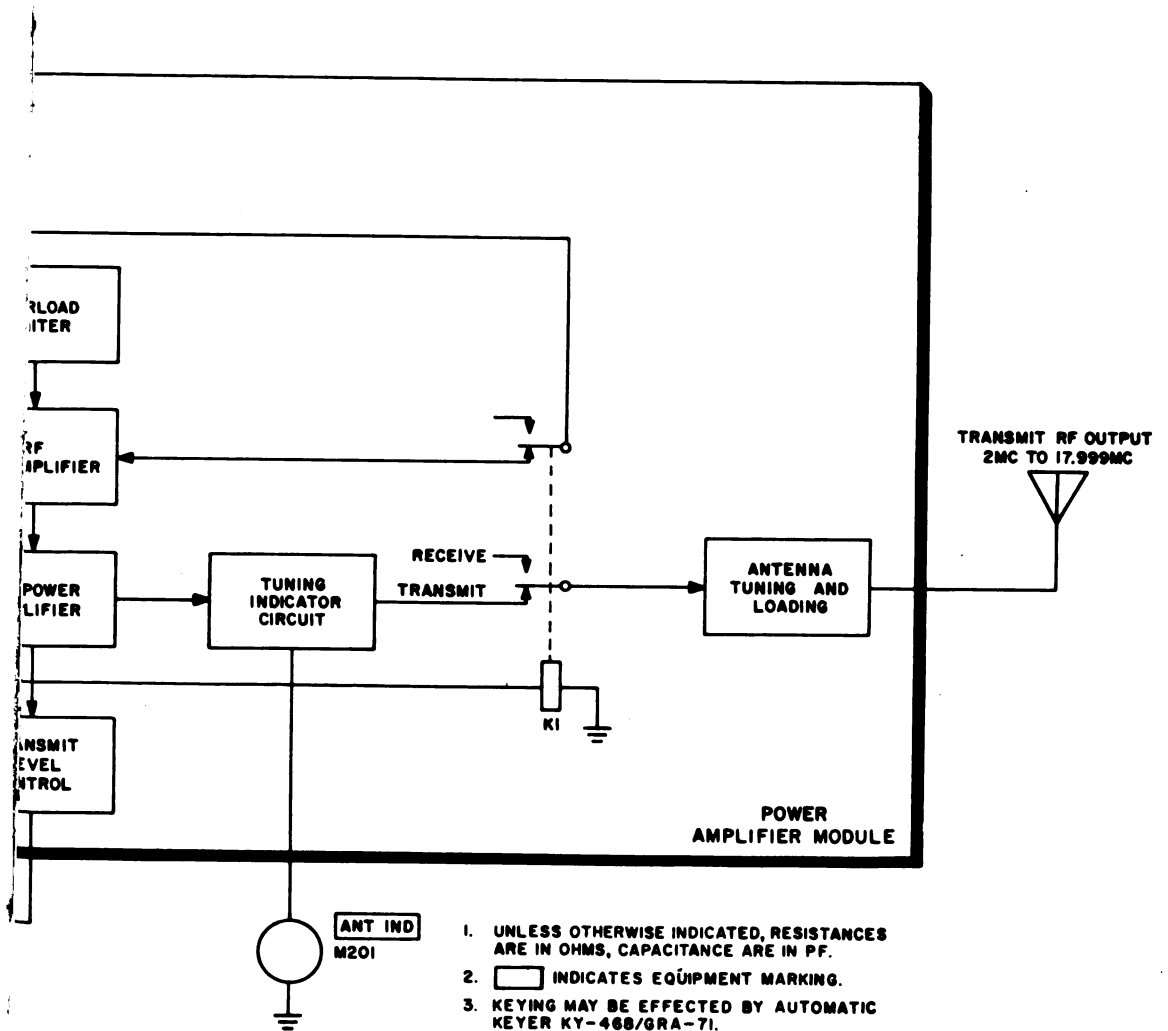
TMS820-590-35-1-C1-55




NOTES:

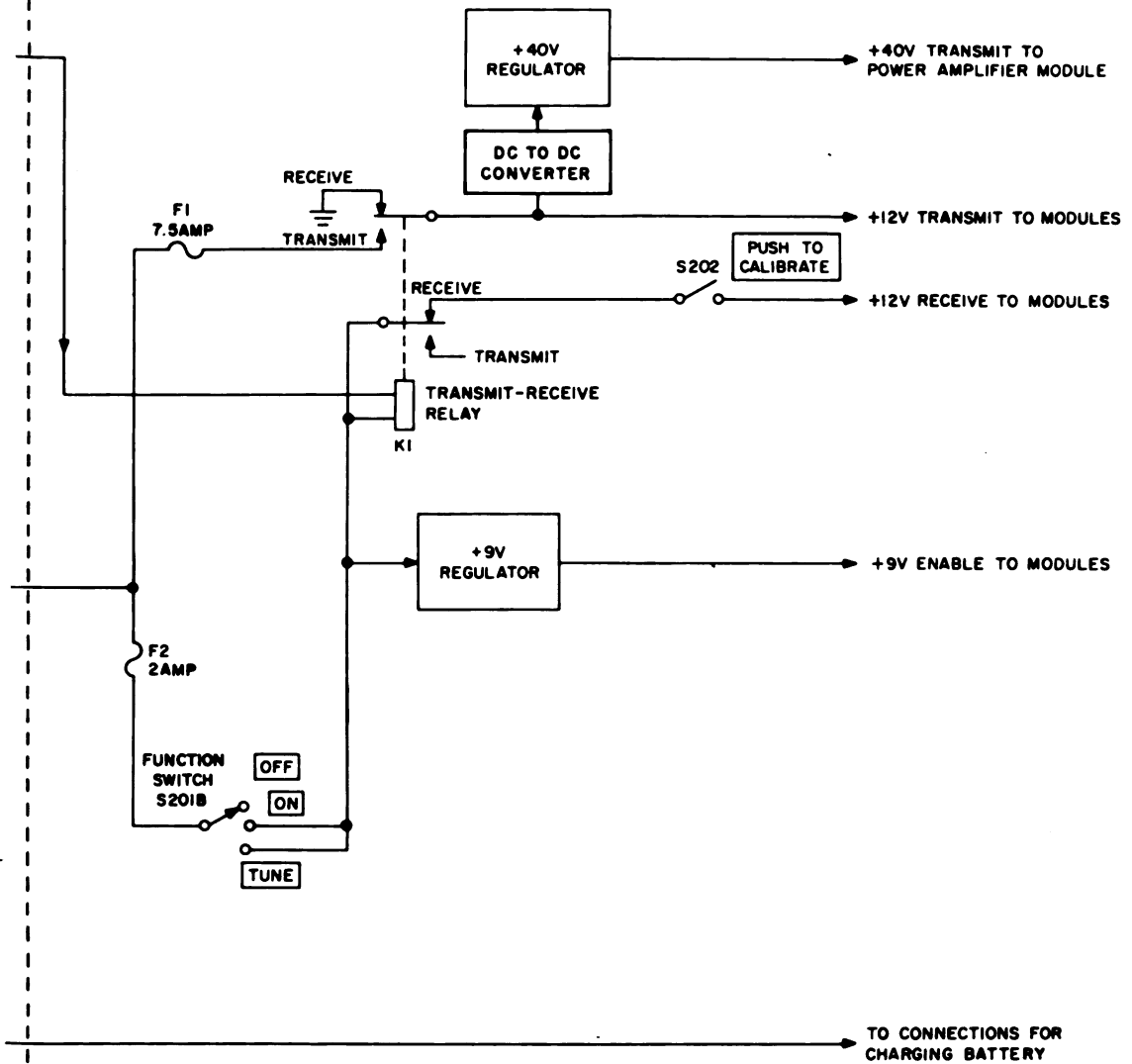
- 1. UNLESS OTHERWISE INDICATED, RESISTANCES ARE IN OHMS, CAPACITANCES ARE IN PF
- 2.  INDICATES EQUIPMENT MARKING
- 3. AN/PRC-74C EQUIPMENT MARKED IN HERTZ (HZ) INSTEAD OF CYCLES (C).






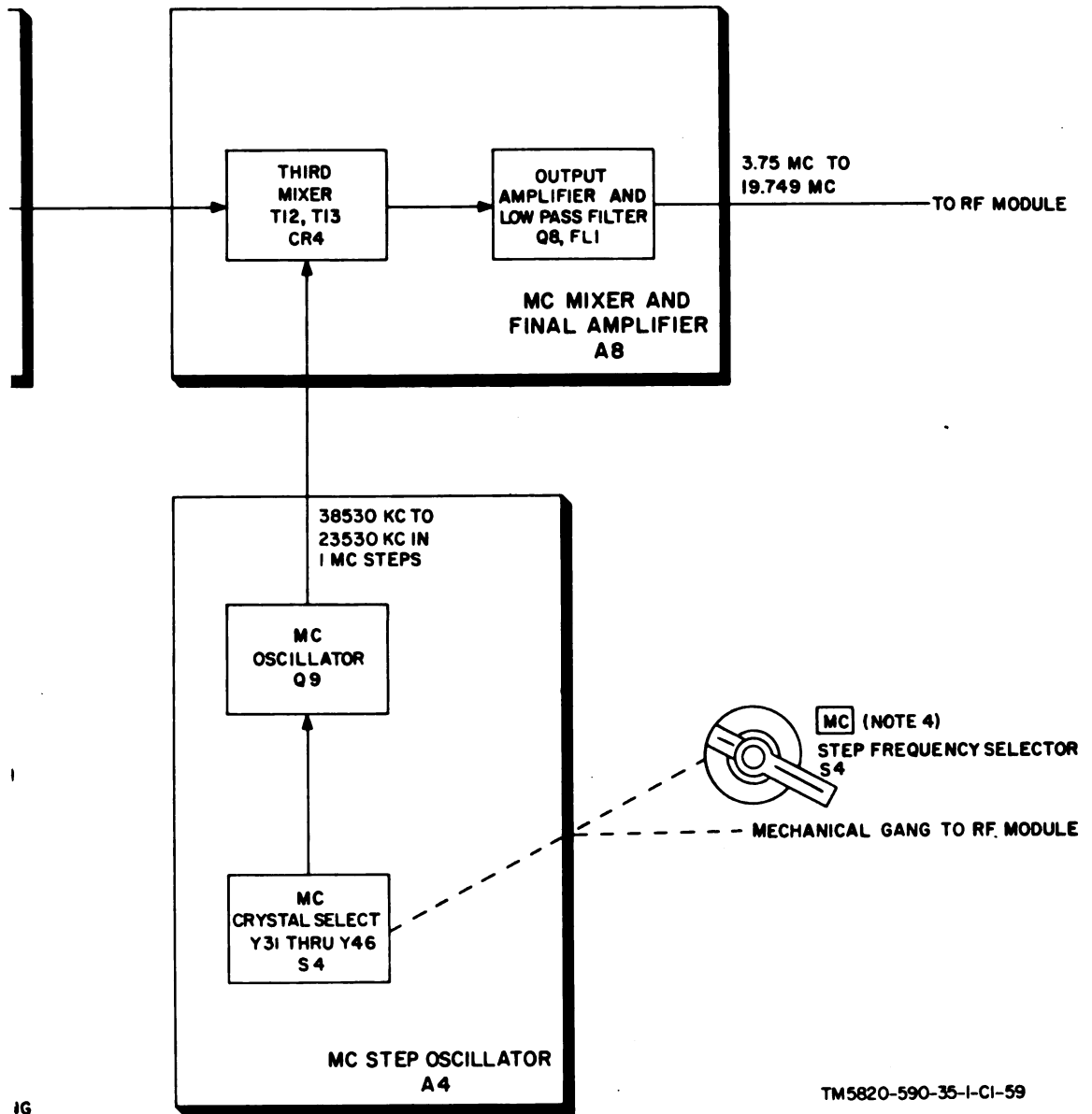
1. UNLESS OTHERWISE INDICATED, RESISTANCES ARE IN OHMS, CAPACITANCE ARE IN PF.
2.  INDICATES EQUIPMENT MARKING.
3. KEYING MAY BE EFFECTED BY AUTOMATIC KEYS KY-468/GRA-71.
4. AN/PRC-74C EQUIPMENT MARKED IN HERTZ (HZ) INSTEAD OF CYCLES (C).

RECEIVER-TRANSMITTER
POWER SUPPLY



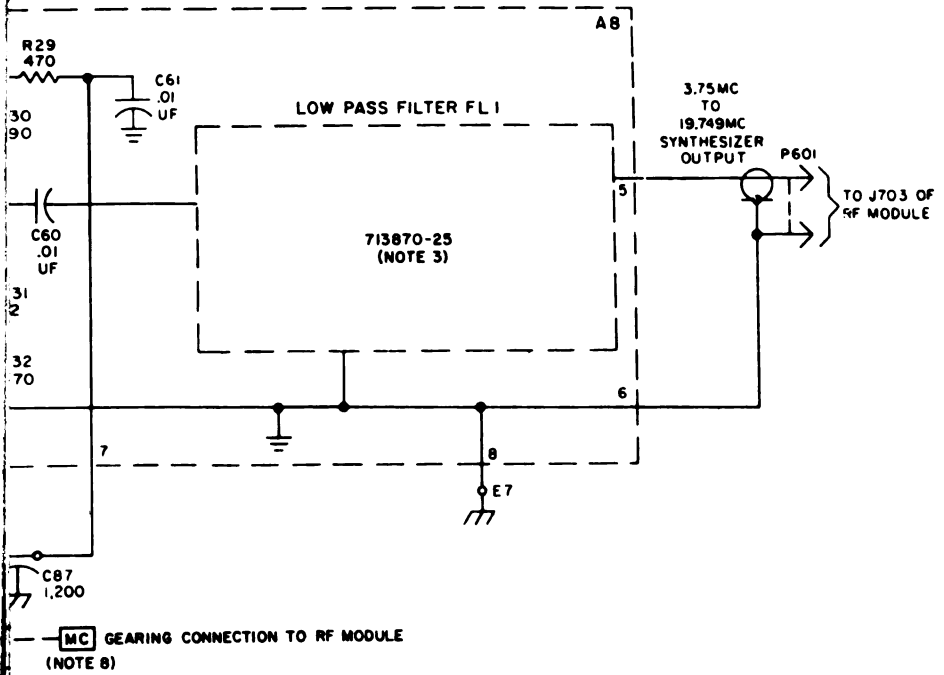
NOTE:
 INDICATES EQUIPMENT MARKING

TM5820-590-35-1-58



IG
OF AN/PRC-74B.
OF AN/PRC-74C.
V HERTZ (HZ)

TM5820-590-35-1-CI-59



INTER-MODULE CONNECTIONS
100 TO TWO DIGIT AND 6000

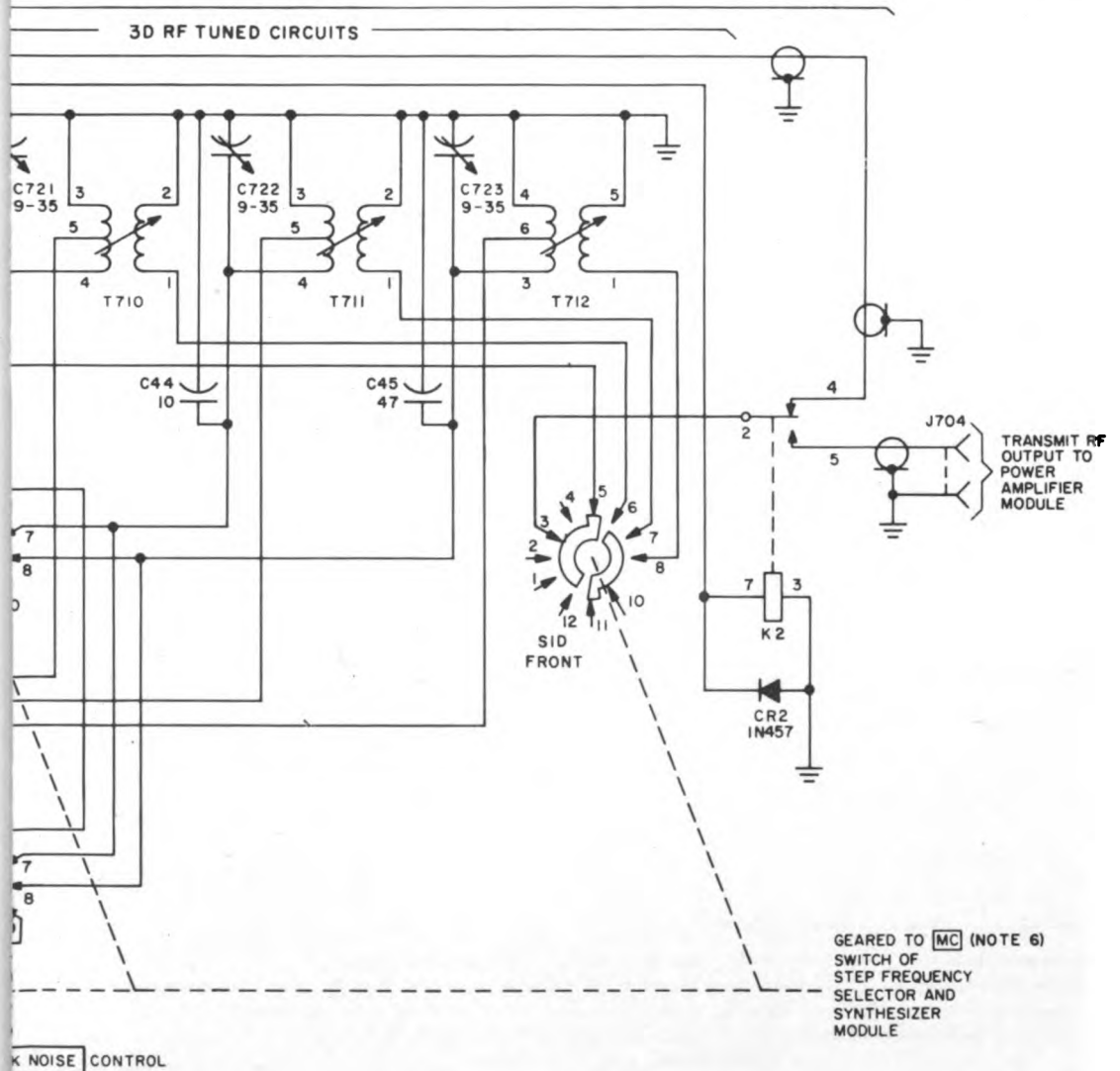
CRYSTAL FREQUENCY	SWITCH POSITION
Y21 26 730 KC	0
Y22 26 830 KC	1
Y23 26 930 KC	2
Y24 27 030 KC	3
Y25 27 130 KC	4
Y26 27 230 KC	5
Y27 27 330 KC	6
Y28 27 430 KC	7
Y29 27 530 KC	8
Y30 27 630 KC	9

100 KC STEP FREQUENCY
SELECTOR
S3

CRYSTAL FREQUENCY	SWITCH POSITION
Y31 38 530 KC	2
Y32 37 530 KC	3
Y33 36 530 KC	4
Y34 35 530 KC	5
Y35 34 530 KC	6
Y36 33 530 KC	7
Y37 32 530 KC	8
Y38 31 530 KC	9
Y39 30 530 KC	10
Y40 29 530 KC	11
Y41 28 530 KC	12
Y42 27 530 KC	13
Y43 26 530 KC	14
Y44 25 530 KC	15
Y45 24 530 KC	16
Y46 23 530 KC	17

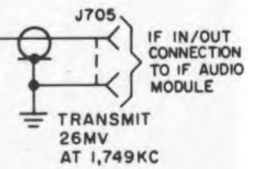
MC STEP FREQUENCY
SELECTOR
S4

CYCLES(C)

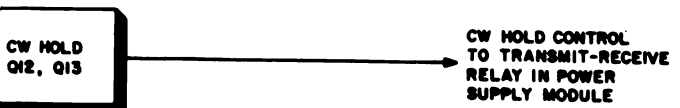


NOTES:

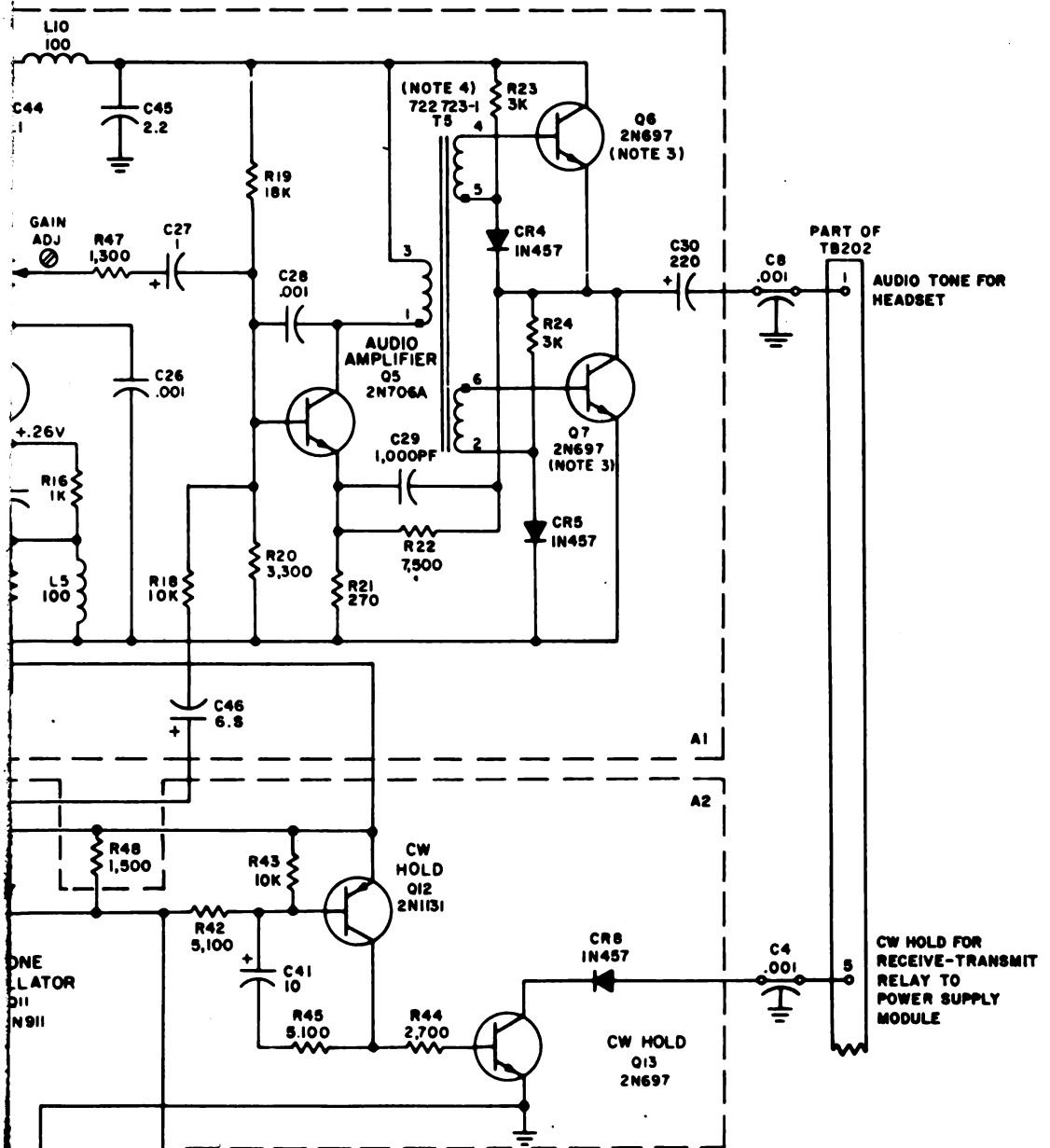
1. UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE VALUES ARE IN OHMS
ALL CAPACITANCE VALUES ARE IN PF
ALL INDUCTANCE VALUES ARE IN UH.
2. ALL REFERENCE DESIGNATIONS, WITH THE EXCEPTION OF INTER-MODULE CONNECTIONS AND ADJUSTABLE COMPONENTS, ARE ABBREVIATED. ADD 700 TO THE DESIGNATIONS; I.E. R1 = R701.
3. SWITCH SI SHOWN IN FULL CCW POSITION.
4. INDICATES EQUIPMENT MARKING.
5. HUGHES PART NUMBER.
6. AN/PRC-74C EQUIPMENT MARKED IN HERTZ (HZ) INSTEAD OF CYCLES (C).




→ +9V ENABLE
TO AUDIO AMPLIFIERS
AND CW HOLD

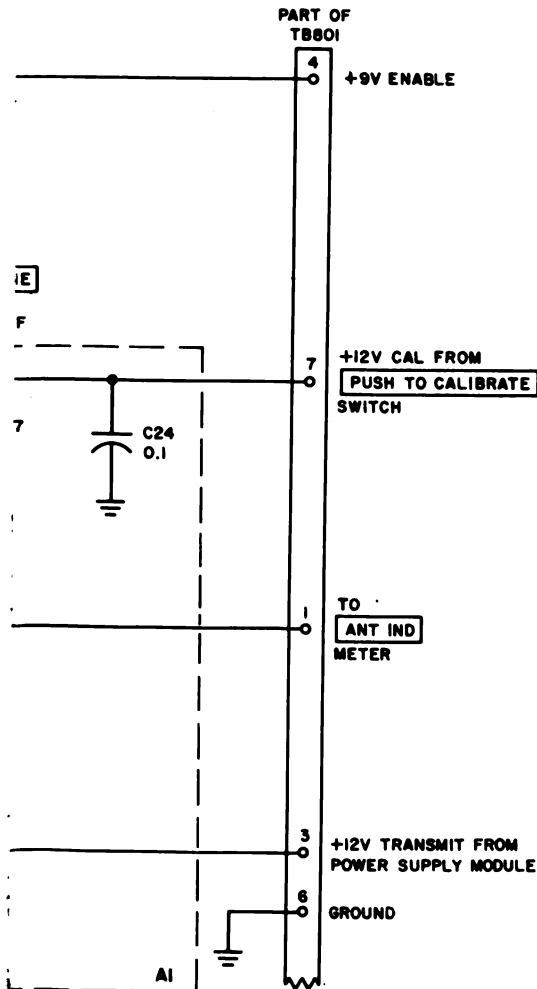
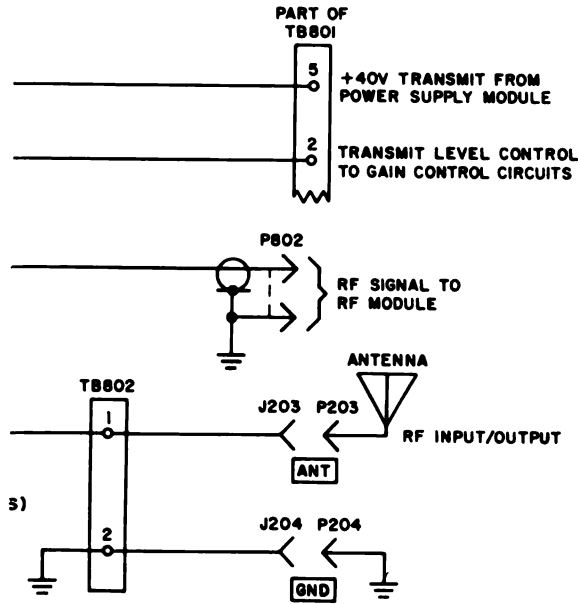


TM5820-590-35-1-C1-62



NOTES:

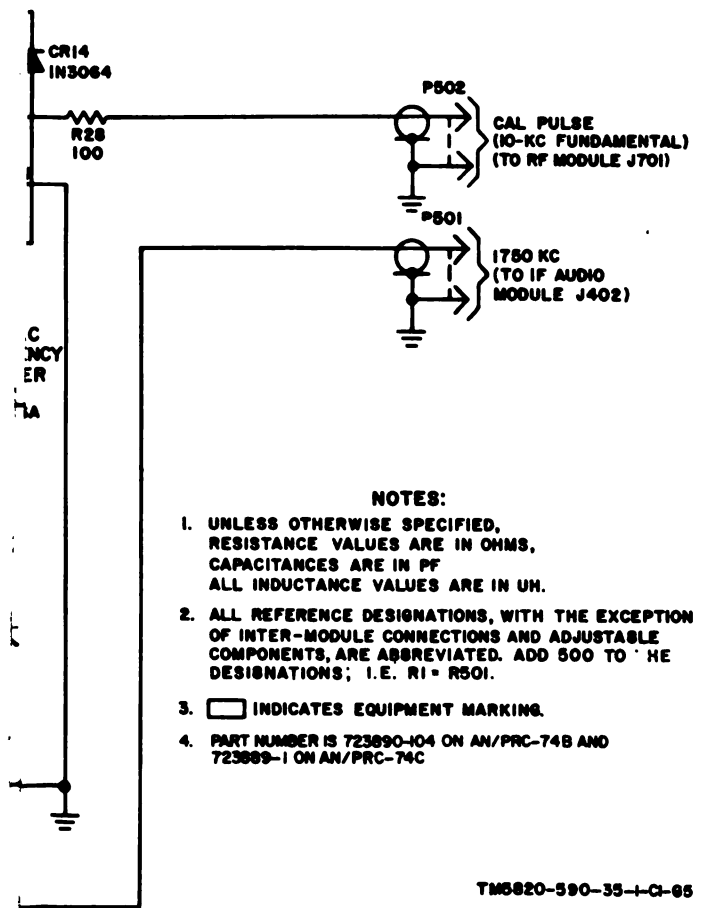
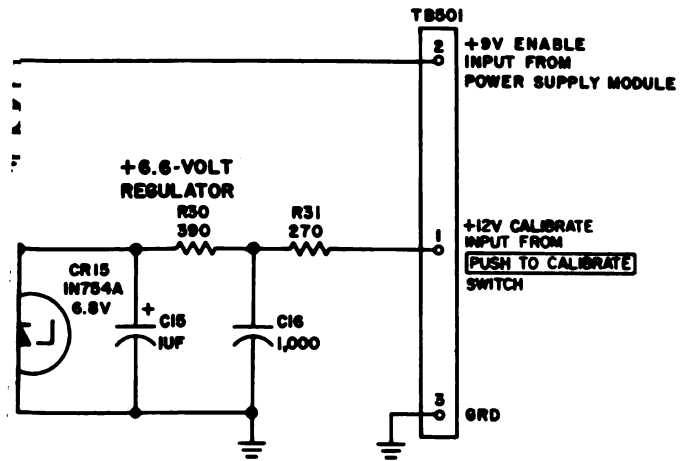
1. UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE VALUES ARE IN OHMS
ALL CAPACITANCE VALUES ARE IN UF
ALL INDUCTANCE VALUES ARE IN UH
2. ALL REFERENCE DESIGNATIONS, WITH THE EXCEPTION OF INTER-MODULE CONNECTIONS AND ADJUSTABLE COMPONENTS, ARE ABBREVIATED. ADD 400 TO THE DESIGNATIONS, EXCEPT TB202; I.E. R1=R401.
3. Q6 AND Q7 ARE MATCHED PAIR. HUGHES PT. NO. 995150-23
4. HUGHES PART NUMBER.
5.  INDICATES EQUIPMENT MARKING.
6. R36 IS REPLACED BY C47 (2200 PF) ON AN/PRC-74C



NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE VALUES ARE IN OHMS, ALL CAPACITANCE VALUES ARE IN UF, ALL INDUCTANCE VALUES ARE IN UH.
2. ALL REFERENCE DESIGNATIONS ARE ABBREVIATED WITH THE EXCEPTION OF INTER-MODULE CONNECTIONS AND ADJUSTABLE COMPONENTS. ADD 800 TO THE DESIGNATIONS, EXCEPT FOR J203 AND J204; I. E. R1 = R801.
3. INDICATES EQUIPMENT MARKING
4. HUGHES PART NUMBER
- 5.

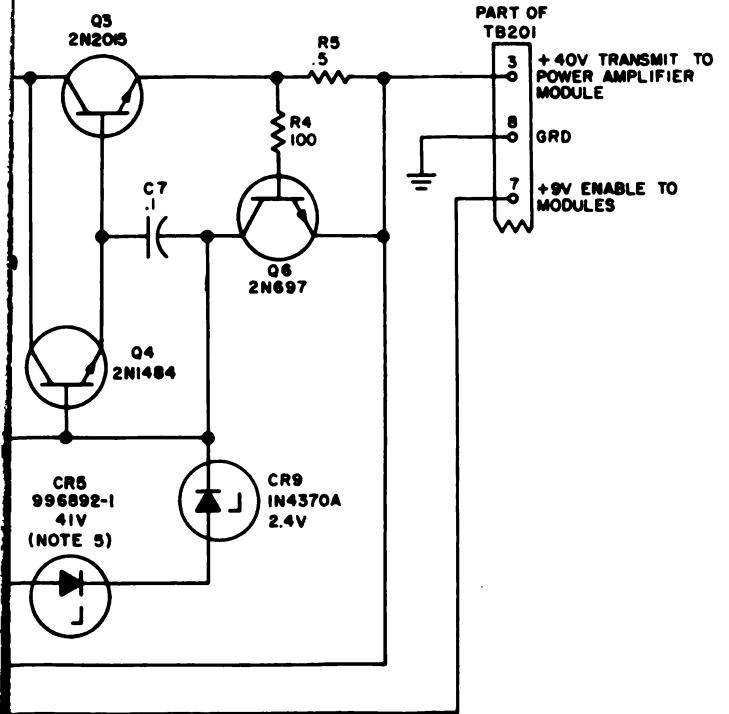
COMPONENT	VALUE	
	AN/PRC-74B	AN/PRC-74C
R3	1200	1800
R24	3300	1800



NOTES:

1. UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS, CAPACITANCES ARE IN PF ALL INDUCTANCE VALUES ARE IN UH.
2. ALL REFERENCE DESIGNATIONS, WITH THE EXCEPTION OF INTER-MODULE CONNECTIONS AND ADJUSTABLE COMPONENTS, ARE ABBREVIATED. ADD 500 TO THE DESIGNATIONS; I.E. R1 - R501.
3. INDICATES EQUIPMENT MARKING.
4. PART NUMBER IS 723890-104 ON AN/PRC-74B AND 723889-1 ON AN/PRC-74C

+40 VOLT REGULATOR



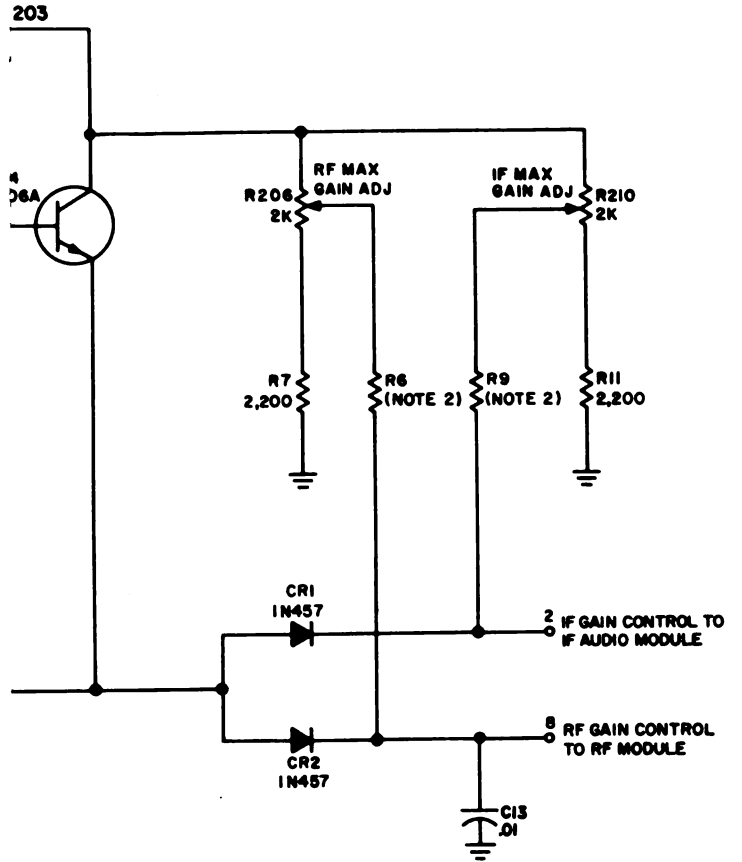
NOTES:

RESISTORS
RESISTORS ARE IN OHMS
RESISTORS ARE IN UF
RESISTORS ARE IN OHMS

RESISTORS, WITH THE EXCEPTION
OF RESISTORS AND ADJUSTABLE
RESISTORS. ADD 300 TO THE
RESISTOR VALUE; I.E. R1 = R301.
RESISTOR VALUE IS 500 OHMS
RESISTOR VALUE IS 300 OHMS

MARKING

TM5820-590-35-1-C1-66



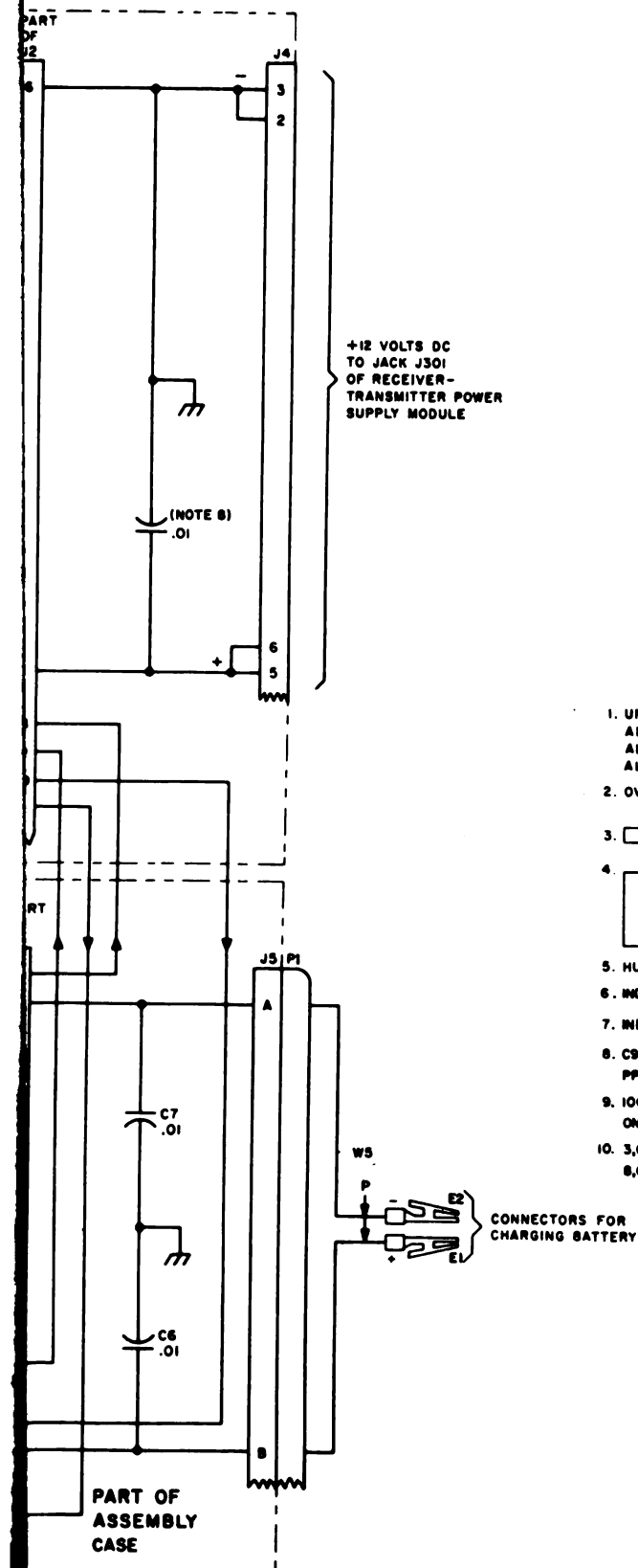
NOTES:

UNLESS OTHERWISE SPECIFIED,
 ALL RESISTANCE VALUES ARE IN OHMS
 ALL CAPACITANCE VALUES ARE IN UF
 R8 AND R9 ARE 1,800 OHM SENSITORS

ALL REFERENCE DESIGNATIONS, WITH THE EXCEPTION OF
 INTER-MODULE CONNECTIONS AND ADJUSTABLE COMPONENTS,
 ARE ABBREVIATED. ADD 200 TO THE DESIGNATIONS;
 I.E. R11 = R211

INDICATES EQUIPMENT MARKING

TM5820-590-35-1-C1-87



+12 VOLTS DC
TO JACK J301
OF RECEIVER-
TRANSMITTER POWER
SUPPLY MODULE

NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE VALUES ARE IN OHMS ALL CAPACITANCE VALUES ARE IN UF ALL INDUCTANCE VALUES ARE IN MH
2. OVERLOAD PROTECTION ELEMENT
3. INDICATES EQUIPMENT MARKING
4.

S2	
METER	METER
CHARGE AMPS	BATTERY VOLTS
OFF	/ / RADIO VOLTS
5. HUGHES PART NUMBER
6. INDICATES CONNECTION FOR PP-4814/PRC-74
7. INDICATES CONNECTION FOR PP-4814A/PRC-74
8. C9 ON PP-4814/PRC-74 AND C8 ON PP-4814A/PRC-74
9. 100 OHM ON PP-4814/PRC-74 AND 680 OHM ON PP-4814A/PRC-74
10. 3,000 UF ON PP-4814/PRC-74 AND 8,600 UF ON PP-4814A/PRC-74

CONNECTORS FOR
CHARGING BATTERY

COLOR CODE TABLES

Y and CB

CAPACITANCE TOLERANCE			CHARACTERISTIC ²				DC WORKING VOLTAGE	OPERATING TEMP. RANGE	VIBRATION GRADE	
	CN	CY	CB	CM	CN	CY	CB	CM	CM	CM
		± 20%	± 20%		A				-55° to +70°C	10-55 cps
				B	E		B			
%		± 2%	± 2%	C		C			-55° to +85°C	
	± 30%			D			D	300		
				E					-55° to +125°C	10-2,000 cps
%				F				500		
									-55° to +150°C	
		± 5%	± 5%							
%	± 10%	± 10%	± 10%							

Style CK

TABLE III - For use with Group III, Temperature Compensating, Style CC

CAPACITANCE TOLERANCE	MIL ID
± 20%	
± 10%	
	CK

COLOR	TEMPERATURE COEFFICIENT ⁴	1st SIG FIG	2nd SIG FIG	MULTIPLIER ¹	CAPACITANCE TOLERANCE		MIL ID
					Capacitances over 10uuf	Capacitances 10uuf or less	
BLACK	0	0	0	1		± 2.0uuf	CC
BROWN	-30	1	1	10	± 1%		
RED	-80	2	2	100	± 2%	± 0.25uuf	
ORANGE	-150	3	3	1,000			
YELLOW	-220	4	4				
GREEN	-330	5	5		± 5%	± 0.5uuf	
BLUE	-470	6	6				
PURPLE (VIOLET)	-750	7	7				
GREY		8	8	0.01			
WHITE		9	9	0.1	± 10%		
GOLD	+100					± 1.0uuf	
SILVER							

ant (SIG) figures are multiplied to obtain the capacitance in uuf.

licable specifications: MIL-C-5, MIL-C-91, MIL-C-11272 and MIL-C-10950 respectively.

temperature limits designated in MIL-C-11015.

centigrade.

