TECHNICAL MANUAL

MAINTENANCE INSTRUCTIONS WITH ILLUSTRATED PARTS BREAKDOWN (DEPOT)

REMOTE CONTROL UNIT, C-11329/URC, P/N 10088-0000

Harris Corporation, RF Communications Group
F04606-82-D-0079

BASIC AND ALL CHANGES
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INSERT LATEST CHANGED PAGES. DESTROY SUPERSEDED PAGES.

LIST OF EFFECTIVE PAGES

NOTE: The portion of the text affected by the changes is indicated by a vertical line in the outer margins of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

Dates of issue for original and changed pages are:

Original....0....15 Jan 86
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FP-1	0	FP-39	0		
FP-2 Blank	0	FP-40 Blank	0		
FP-3	0	FP-41	0		
FP-4 Blank	0	FP-42 Blank	0		
FP-5	0	FP-43	0		
FP-6 Blank	0	FP-44 Blank	0		
FP-7	0	FP-45	0		
FP-8 Blank	0	FP-46 Blank	0		
FP-9	0	FP-47	0		
FP-10 Blank	0	FP-48 Blank	0		
FP-11	0	FP-49	0		
FP-12 Blank	0	FP-50 Blank	0		
FP-13	0	FP-51	0		
FP-14 Blank	0	FP-52 Blank	0		
FP-15	0	FP-53	0		
FP-16 Blank	0	FP-54 Blank	0		
FP-17	0	FP-55	0		
FP-18 Blank	0	FP-56 Blank	0		
FP-19	0	FP-57	0		
FP-20 Blank	0	FP-58 Blank	0		
FP-21	0	FP-59	0		
FP-22 Blank	0	FP-60 Blank	0		
FP-23	0	FP-61	0		
FP-24 Blank	0	FP-62 Blank	0		

*Zero in this column indicates an original page

SAFETY SUMMARY

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

KEEP AWAY FROM LIVE CIRCUITS

Operating personnel must at all times observe all safety regulations. Do not replace components with the power supply turned on. Under certain conditions, dangerous potentials may exist when the power control is in the off position, due to charges retained by capacitors. To avoid casualties, always remove power and discharge circuits to ground before touching any circuit components. Remove watches and rings before performing any maintenance procedures.

DO NOT SERVICE OR ADJUST ALONE

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

RESUSCITATION

Personnel working with or near high voltages should be familiar with modern methods of resuscitation. Cardiopulmonary resuscitation procedures are outlined in T.O. 31-1-141-1, and annual refresher training requirements are outlined in AFOSH STD 127-50.

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

WARNING

Dangerous voltages exist in this radio equipment. Before removing any covers, disconnect the primary power.

HANDLING OF ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (EDSD)

Electrostatic Discharge Sensitive Devices (EDSD) must be handled with certain precautions that must be followed to minimize the effect of static build-up. Consult T.O. 00-25-234, DOD Std-1686, and DOD HDBK 263. EDSD Devices are identified in this technical order by the following symbol:

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GLOSSARY

A	Ampere(s)
A/D	Analog-to-Digital (Converter)
AFSK	Audio frequency shift keying; a baseband modulation scheme in which two audio frequencies are used to represent binary coded data; the frequency is shifted to one frequency to represent a 1 (mark) and to the other to represent a 0 (space)
AGC	Automatic gain control
ALE	Address latch enable
AM	Amplitude modulation; a modulation scheme in which the carrier is made to vary in amplitude in accordance with the modulating signal
AME	Amplitude modulation equivalent
ANTIVOX	Prevents false VOX operation; see VOX
BFO	Beat Frequency Oscillator, used in SSB detection circuits
BIT	Built-in Test
BIU	Bus interface unit
BW	Bandwidth
CPU	Central processing unit
CREV	Converter reverse
CW	Continuous wave; a wave that does not vary in amplitude or frequency and is turned on and off to carry intelligence, e.g., Morse Code
D/A	Digital-to-Analog (Converter)
dB	Decibel(s)
dBm	Decibel(s) relative to one milliwatt
EMI	Electromagnetic interference
EPROM	Erasable programmable read-only memory
EU	Execution unit
HF	High frequency; a radio frequency band extending from about 3 MHz to 30 MHz; in this manual, HF includes 1.6 to 30 MHz
HV	High voltage
IF	Intermediate frequency
IM	Intermodulation (distortion)
I/O	Input/Output
KREV	Keyer reverse
LCD	Liquid crystal display
LED	Light emitting diode
LPA	Linear power amplifier
LSB	Lower sideband; a modulation scheme in which the intelligence is carried on the first sideband below the carrier frequency; see SSB
MIC	Microphone
mA	Milliampere(s)
mV	Millivolt(s)
NBSV	Narrow band secure voice
PEP	Peak envelope power
PPC	Peak power control
PWB	Printed wiring board
RAM	Random access memory
rms	Root mean square
RTC	Real time clock
RX	Receive

GLOSSARY (Continued)

S TONE	Sidetone
SSB	Single sideband; a modulation scheme in which the intelligence is carried by one of the carrier sidebands, the other sideband and the carrier center frequency being suppressed
TGC	Transmitter gain control
TX	Transmit
uA	Microampere(s)
uP	Microprocessor
USB	Upper sideband; a modulation scheme in which the intelligence is carried on the first sideband above the carrier frequency; see SSB
uV	Microvolt(s)
Vac	Volts, alternating current
VCO	Voltage controlled oscillator
Vdc	Volts, direct current
VOX	Voice operated transmission
VSWR	Voltage standing wave ratio; the ratio of the maximum to the minimum voltage of a standing wave on a radio frequency transmission line
W	Watt(s)

INTRODUCTION

The purpose of this manual is to provide information necessary for the depot-level maintenance of Remote Control Unit, C-11329/URC, manufactured by the RF Communications Group of Harris Corporation, Rochester, New York. The manual is divided into three chapters. The contents of each chapter are briefly described in the following paragraphs.

NOTE

This manual only contains three chapters, because chapters 1-5 are contained in the On-Equipment Manual, T.O. 31R2-2URC-91. For a description of the contents of these chapters, see the INTRODUCTION in T.O. 31R2-2URC-91.

Chapter 6 describes the depot-level maintenance procedures. The maintenance procedures in this chapter are based on performance testing and trouble analysis of the subassembly or PWB to locate and replace faulty parts at the lowest replaceable unit level (LRU).

Chapter 7 contains the Illustrated Parts Breakdown (IPB) information at the depot level. This includes assemblies and parts that may be replaced at the depot location.

Chapter 8 contains foldout (FO) drawings, which consist of the schematic diagrams for all the PWB assemblies. A cross reference list is also provided. The diagrams are numbered FO-1, FO-2, etc. They are printed on sheets with page-size blank aprons to permit viewing the diagram with the rest of the book closed or opened to another page.

The following specifications, standards, and publications were used in the preparation of this manual.

APPLICABLE SPECIFICATIONS

SPECIFICATION	NAME
MIL-M-38798B, para. 3.4	Combined Operation and Maintenance Instructions Manual (Equipment).
MIL-M-38807, Amend. 4	Preparation of Illustrated Parts Breakdown.
MIL-M-38790 and MIL-M-38784A	General Requirements for Preparation of Technical Manuals.

APPLICABLE STANDARDS

STANDARD	NAME
MIL-STD-12	Abbreviation for use on Drawings and in Technical Type Publications.
MIL-STD-15-1A	Graphic Symbols for Electrical Components.
MIL-STD-17-1	Mechanical Symbols.
MIL-STD-806	Graphic Symbols for Logic Diagrams.

APPLICABLE PUBLICATIONS

PUBLICATION	NAME
DOD 5200.20	Distribution Statements on Technical Documents.
USAS Y14.15-1966	Electrical and Electronic Diagrams.
USAS Y32.16-1968	Electrical and Electronic Reference Designations.
T.O. 31-1-141 (Series)	Technical Manual-Basic Electronic Technology and Testing Practices.

CHAPTER 6

MAINTENANCE

WARNING

Dangerous voltages exist in this radio equipment. Before removing any covers, disconnect the primary power.

Section I. INTRODUCTION

6-1. CHAPTER ORGANIZATION. This chapter is divided into three sections. Section I tells how the chapter is organized. Section II contains alignment procedures for the replaceable modules. This information is also contained in the On-Equipment Manual T.O. 31R2-2URC-91, and is repeated here for convenience. Section III consists of diagnostic procedures which will enable you to troubleshoot faulty modules to the component level. These procedures are based on use of the BIT feature. For more information on BIT, as well as removal/replacement procedures and periodic maintenance procedures, see the On-Equipment Manual, T.O. 31R2-2URC-91.

Section II. ALIGNMENT PROCEDURES

6-2. INTRODUCTION. This section contains instructions for checking and adjusting the replaceable subassemblies in the Remote Control Unit. This section also contains circuit board layouts to help you identify the components that require adjustment. To do the procedures described in this section, you need the test equipment listed in Table 6-1 or equivalent equipment.

Table 6-1. Test Equipment

Generic Name	Military Designation	Manufacturer Model No.	National Stock No.	Required Range
Signal Generator (RF)	SG-1093/U	Hewlett Packard, Model 8640B	6625-00-318-6304	-120 to +20 dBm; 440 KHz to 70.5 MHz in 10 Hz increments
Signal Generator (audio)		Hewlett Packard, Model 204D	6625-00-427-4513	-70 to +10 dBm; 300 Hz to 3.3 KHz
AC Voltmeter		Hewlett Packard, Model 400F	6625-00-403-6526	300 uV to 3 V (audio frequency)
Digital Multimeter		Fluke, Model 8012A	6625-01-140-0221	200 mV to 250 Vac; 200 mV to 40 Vdc; 0 to 20 megohms
PROM Programmer		Data I/O, Model System 19	7045-01-115-8993	
100 Watt Transceiver	RT-1446/URC	RF Communications, Model RF-350	5820-01-162-3406	
Remote Control Unit	C-11329/URC	RF Communications, Model RF-352	5820-01-160-9360	

NOTE: Equivalent Items Authorized

6-3. ALIGNMENT PROCEDURES

NOTE

After each of the following alignment procedures, disconnect test equipment and reconfigure equipment (module or circuit card) to normal operating condition.

NOTE

See figure 1-3 in the On-Equipment Manual, T.O. 31R2-2URC-91, for subassembly locations.

a. FRONT PANEL PWB ASSY, A1A1.

Preset as follows:

- Squelch.....fully counterclockwise
- RF gain.....fully clockwise
- Audio gain.....for comfortable listening level.

b. DISPLAY ASSY, A1A2.

No adjustments.

c. AUDIO/MICROPROCESSOR PWB ASSY, A2 (Fig. 6-1)

(1) R244, LINE RX AUDIO Adjustment

(a) Rotate R244 maximum counterclockwise.

(b) With the Remote Control Unit connected to a 100 Watt Transceiver and REMOTE operation selected on the transceiver front panel, enter a frequency of 2.456 MHz on the Remote Control Unit's front panel.

(c) Select USB mode and the LINE meter function.

(d) Activate the BIT Oscillator in the transceiver by moving the jumper from pins 1 and 2 on J7 of the Low Pass Filter PWB Assy to pins 2 and 3 (located in transceiver).

(e) At the transceiver front panel, adjust the LINE potentiometer for -10 dBm, as indicated at the transceiver front panel meter.

(f) On the Remote Control Unit, select MIC as the audio source.

(g) Observe the LINE meter at the Remote Control Unit's front panel. If the meter reads less than -10 dBm, note the level and continue with the next step. If it is -10dBm or more, this alignment is complete (-9 dBm is more than -10 dBm).

(h) Set the meter to PATCH.

(i) Set the PATCH RX potentiometer on the Remote Control Unit's front panel for -10 dBm, as indicated on the PATCH meter.

(j) Adjust R244 to raise the PATCH level by the same amount that the LINE level at the Remote Control Unit was below the LINE level at the transceiver.

(2) R59, AUDIO 2 RX AUDIO Adjustment

Before adjusting R59, check that R244 is adjusted correctly.

(a) With the Remote Control Unit connected to a 100 Watt Transceiver and REMOTE operation selected on the transceiver front panel, enter a frequency of 2.456 MHz on the Remote Control Unit's front panel.

(b) Select USB.

(c) Activate the BIT Oscillator in the transceiver by moving the jumper from pins 1 and 2 on J7 of the Low Pass Filter PWB Assy to pins 2 and 3.

(d) Connect a 600-ohm resistor across pins 2 and 3 of connector J3 (AUDIO 2) on the back of the Remote Control Unit.

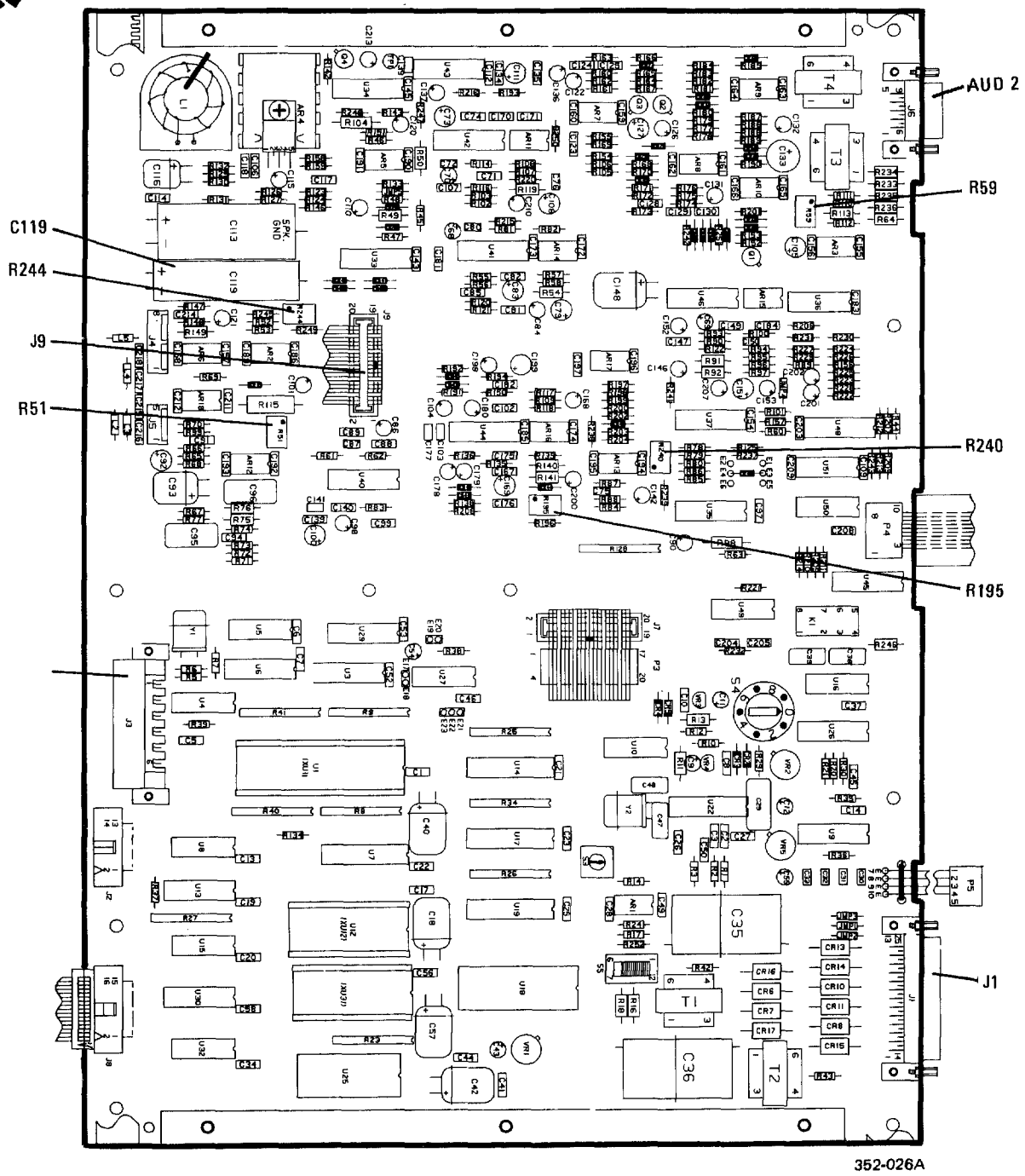

Figure 6-1. Audio/Microprocessor PWB Assy

(e) Connect an audio voltmeter across the resistor, and adjust R59 for +10 dBm on the meter.

(3) R51, AUDIO 2 TX AUDIO Adjustment

(a) Connect an audio signal generator to pins 4 and 5 of the AUDIO 2 connector J3 at the rear of the Remote Control Unit.

(b) On the Remote Control Unit front panel, select AUDIO 2 as the AUDIO SOURCE.

(c) Set the meter to AUDIO.

(d) Adjust the signal generator output to +10 dBm at 1 KHz, and adjust R51 for 0 dBm on the Remote Control Unit's front panel meter.

NOTE

This is the correct setting for interfacing with the KY-65 or KY-75 communications secure voice equipment. For interfacing with other equipments, R51 should be set for a 0 dBm AUDIO meter reading with the nominal audio output level of the external equipment applied to J3.

(4) R195, VOX Voice Delay Adjustment

This potentiometer sets the "hang time" for VOX voice keying; that is, it determines the amount of time it takes for the Remote Control Unit to unkey after audio has ceased. This adjustment is preferential, but the normal factory setting is 1/2 to 3/4 second. Select VOX voice operation. Using MIC as the AUDIO SOURCE, adjust R195 so that at the end of a test count, the desired time elapses before the unit unkeys.

(5) R240, Sidetone Level Adjustment

(a) Set Remote Control Unit to USB, Meter to Audio, and Audio Source to Patch.

(b) Connect an Audio Signal/Generator to the "2W" Patch Terminals on TB1 at the rear of the Remote Control Unit. Set the Generator to 1 KHz at -10 dBm.

(c) Inject a 40.454 MHz signal into J1 on the transceiver A7 Assy. at -40 dBm.

(d) Connect J1 on the transceiver to a dummy load.

(e) Connect an oscilloscope to the negative lead of C119.

(f) Key the Remote Control Unit, select sidetone (ensure audio meter on remote front panel indicates 0dB. If it does not, adjust Patch Xmit for 0dB).

(g) Adjust R240 so that for a given volume control setting on the Remote Control Unit's front panel, the audio level of the Xmit Sidetone is approximately the same as the Receive Audio level.

d. MULTIVOLTAGE SUPPLY ASSY, A3 (Fig. 6-2)

(1) R61 (+5 V Adjustment)

Adjust R61 for +5 Vdc at E6 (blue wire) on the Multivoltage Supply PWB Assy.

(2) R4 (+15 V Adjustment)

Adjust R4 for +15 Vdc at E3 (orange wire) on the Multivoltage Supply PSB Assy.

e. AUDIO INTERFACE PWB ASSY, A4 (Fig. 6-3)

(1) PATCH Nulling Potentiometer R1

NOTE

This adjustment has an effect only when using a 2-wire PATCH hookup. The Remote Control Unit must be connected to and controlling a 100 Watt Transceiver.

(a) Set the PATCH selector switch (S1) on the Audio Interface PWB Assy to the "2W" position.

(b) Connect the nominal 600-ohm termination across the "2W" PATCH

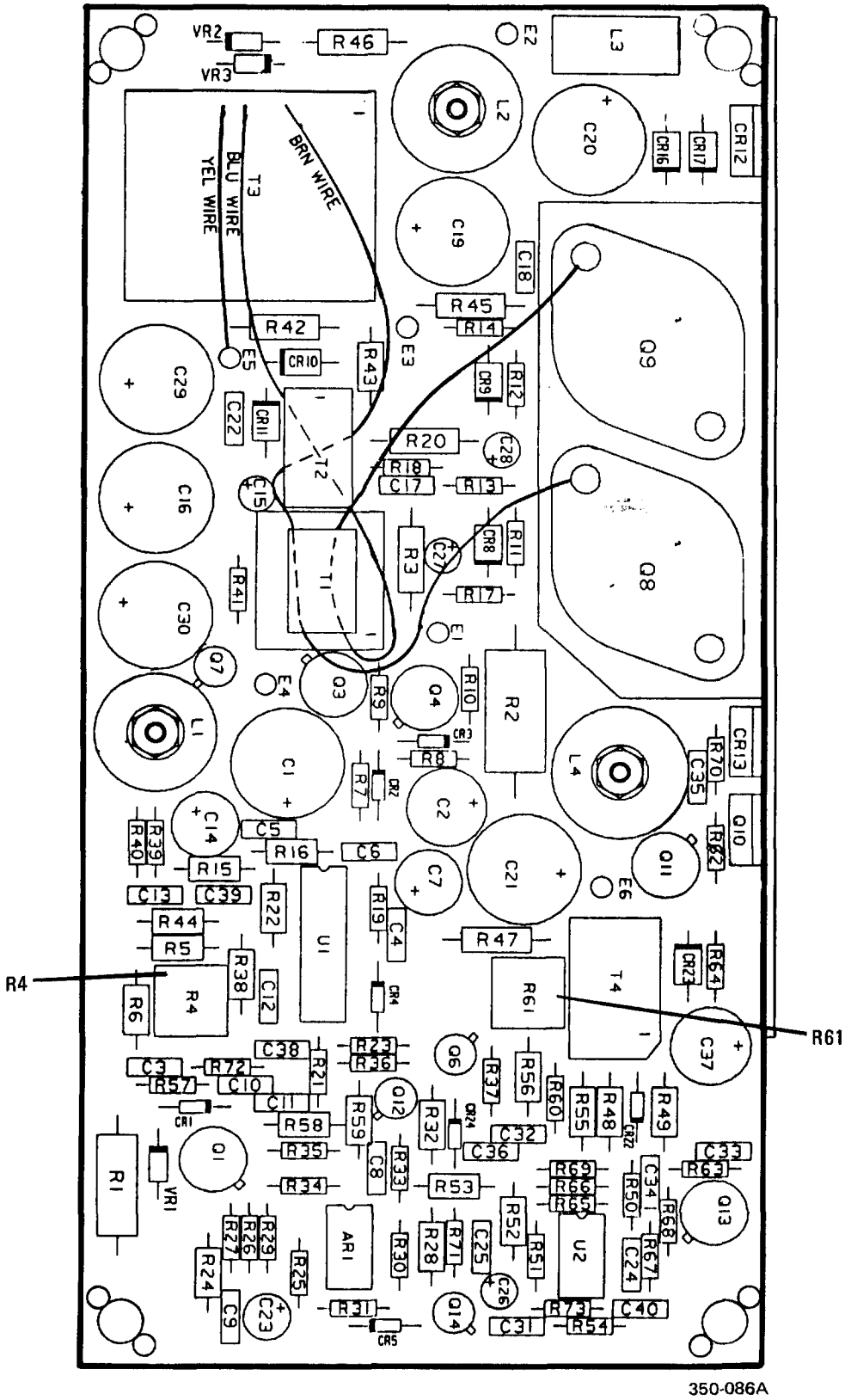

Figure 6-2. Multivoltage Supply Assy

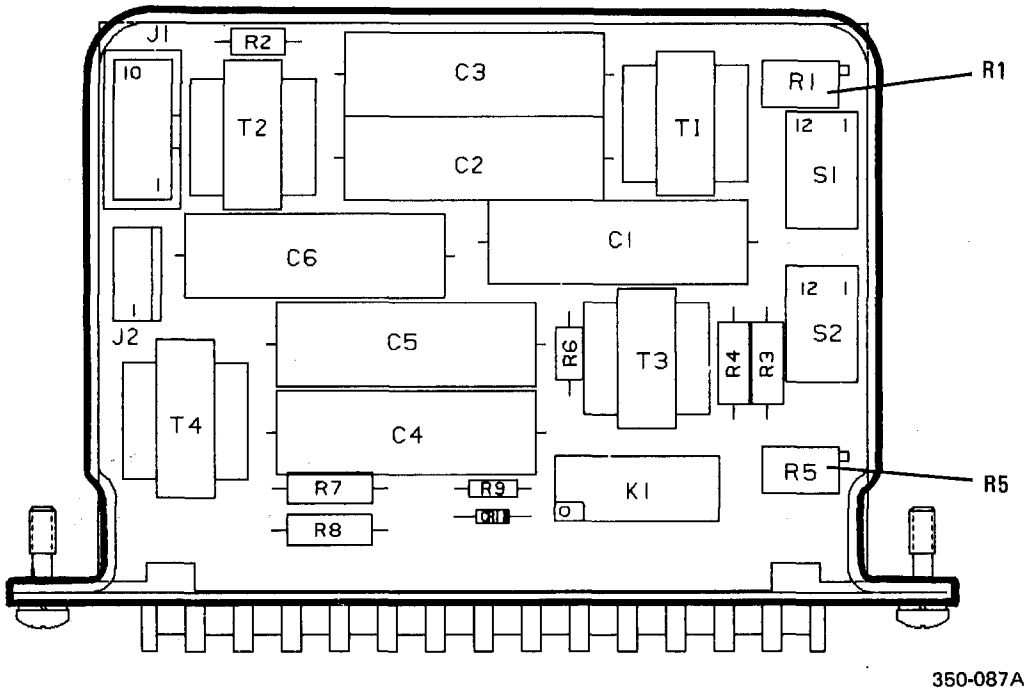

Figure 6-3. Audio Interface PWB Assy

terminals on TB1 (pins 2 and 3) at the rear of the Remote Control Unit.

(c) Connect an RF signal generator to the antenna jack (J1) at the rear of the transceiver.

(d) Set the signal generator for a carrier frequency of 15 MHz at approximately -20 dBm. Select a modulating frequency of 1 KHz at 50% modulation.

(e) On the Remote Control Unit, select AME at 15 MHz.

(f) Select PATCH for the audio source, and select AUDIO for the meter.

(g) Adjust potentiometer R1 (accessible through a hole in the Audio Interface PWB Assy's frame) for a null (minimum reading) on the front panel meter of the Remote Control Unit.

(2) LINE Nulling Potentiometer R5

NOTE

This adjustment only affects a 2-wire LINE hookup (as when a Remote Control Unit is connected to the 100 Watt Transceiver). For this procedure, the Remote Control Unit must be connected to a 100 Watt Transceiver. The transceiver must be in REMOTE and connected to a dummy load.

(a) On the transceiver, select USB mode at any frequency.

(b) Select MIC as the AUDIO SOURCE.

(c) Set the LINE selector switch (S2) on the Audio Interface PWB Assy to the "2W" position on both the transceiver and the Remote Control Unit.

(d) Turn on the internal BIT test tone of the Remote Control Unit by moving the jumper plug (PN65474-001) from between E22 and E23 to between E22 and E21 on the Audio/Microprocessor PWB Assy.

(e) Key the Remote Control Unit using the 2ND, TX KEY buttons on the front panel.

(f) Turn the volume control to maximum and adjust R5 on the Audio Interface PWB Assy for minimum audio on the speaker.

(g) Turn the volume control to minimum and unkey the Remote Control Unit.

(h) Place the jumper plug on the Audio/Microprocessor PWB Assy to its original position (between E22 and E23).

MAINTENANCE

Section III. DIAGNOSTIC PROCEDURES

6-4. DEPOT MAINTENANCE PHILOSOPHY. The maintenance procedures presented in this chapter assume that equipment problems have already been isolated to one of the replaceable subassemblies listed below. This has been accomplished in the field using the BIT (Built-In Test) troubleshooting approach. (For a detailed description of BIT, see Chapter 6 in the On-Equipment Manual for the Remote Control Unit, T.O. 31R2-2URC-91.) As a depot maintenance technician, your job is to take these defective subassemblies returned from the field, swap them with known good subassemblies in a properly functioning Remote Control Unit or 100 Watt Transceiver (the "test bed"), and troubleshoot the defective subassemblies to the component level. Once you have identified and replaced the faulty component (resistor, capacitor, transistor, etc.), you will then perform whatever adjustment or alignment procedures are required to restore the subassembly to peak operating condition. To accomplish these tasks, you will need the procedures contained in this chapter, a complete set of schematics (in Chapter 8 of this manual), and the test equipment listed in Table 6-1.The following is a list of the subassemblies covered in Section III:

NOTE

In order to find the location of components on circuit boards, refer to the circuit board layout drawings in the Alignments section of this chapter or in the Illustrated Parts Breakdown in chapter 7.

6-5. FRONT PANEL PWB ASSY, A1A1. The Front Panel PWB Assy used in the Remote Control Unit is identical to the one used in the 100 Watt Transceiver. Therefore, follow the troubleshooting procedures listed in the Depot Manual for the 100 Watt Transceiver.

6-6. DISPLAY ASSEMBLY, A1A2. The Display Assembly used in the Remote Control Unit is identical to the one used in the 100 Watt Transceiver. Therefore, follow the troubleshooting procedures listed in the Depot Manual for the 100 Watt Transceiver.

6-7. AUDIO/MICROPROCESSOR PWB ASSY, A2.

a. Preliminary Procedure.

(1) Remove the good Audio/Microprocessor PWB Assy from the test-bed Remote Control Unit, and replace it with the faulty Audio/Microprocessor PWB Assy.

(2) Power up the Remote Control Unit.

(3) Connect a dummy load to the 100 Watt Transceiver.

(4) Check for the presence of the following power supply voltages on the board. Voltages should be within 0.5 V of the nominal value.

Voltage:	Measure at:
+5 Vdc	J3, pin 6
+15 Vdc	J3, pin 3
-15 Vdc	J3, pin 2

(5) If the voltages check good, run the receive-transmit BIT test.

NOTE

You can run the BIT test only if you have successfully established a communications link between the transceiver and the Remote Control Unit after you have selected REMOTE operation from the tran sceiver front panel. If the transceiver cannot establish a communications link with the Remote Control Unit after REMOTE operation has been selected, "rcu OFF" will

appear on the transceiver's display and "LCU OFF" will appear on the Remote Control Unit's display. In this case, the problem is most likely in the interface circuitry. Check it as follows:

(6) Try establishing a communications link on each of the other interfaces. Remember that the interface select switches in both the transceiver and the Remote Control Unit must be set the same. Also, when selecting modem, make sure that you change the baud rate to 300 on both units and that the 2-wire, 4-wire select switches are set the same.

(7) If the failure occurs in only one specific interface, then troubleshoot the circuitry unique to that interface:

Failure in:	Check:
RS-232 only	U10A, U16A
RS-422 only	U26B, U9, and associated components
MS-188 only	U27B, U27D, U10B, U16B, C39
Modem only	AR1, U22, U32C, U8D, T1, S5, Y2, T2 (4-wire only), and associated components

In the case of modem, the signal you are tracing is audio tones; in all other cases, the signal consists of a series of pulses.

(8) If none of the interfaces works, then check for a series of pulses every 5 seconds at pin 4 of Interface Select Switch S4. These are the polling signals which the microprocessor sends to the transceiver. If these signals are not present at the switch, look for them at pin 11 of U1. If they are not present there either, then look for a possible microprocessor fault. See the "Additional Symptoms" section following the discussion of fault code 4-01.

b. Interpreting the BIT Fault Code. Use the fault code listed below as a guide in troubleshooting the Audio/Microprocessor PWB Assy. In the event that the BIT test runs without generating the fault code, look for other obvious symptoms, such as no VOX operation or no PATCH transmit. Then refer to the "ADDITIONAL SYMPTOMS" section following the BIT code section.

BIT Test Description for the Audio/Microprocessor PWB Assy

(1) Turns on the BIT Oscillator signal (1200 Hz) and selects audio loopback on the Audio/Microprocessor PWB Assy.

(2) Verifies the PATCH RX (receive) output from the Audio/Microprocessor PWB Assy.

The BIT test for the Remote Control Unit is very comprehensive; it checks most of the functions and circuits on the Audio/Microprocessor PWB Assy. The only circuits it doesn't check are the following:

- o The AUDIO 2 TX AUDIO input from J6 to AR13B
- o The PATCH TX AUDIO input from P4 to AR13B
- o The AUDIO 2 RX AUDIO output from AR13A to J6
- o The RX AUDIO output from AR11A to the speaker or headphone

Therefore, if the Remote Control Unit passes the BIT test, you can be sure that the main audio path is functional, as well as the microprocessor and its associated components.

CODE 4-01

This fault code indicates that the 1200 Hz test signal, which was applied to the DYNAMIC MIC input (J5, pin 4) as transmit audio and looped back through K1 to become receive audio, was not detected at the AD0-AD7 inputs to microprocessor U1.

The problem could be anywhere from frequency divider U5 (where the 2.4 KHz signal from the CPU clock oscillator is converted to the 1200 Hz test signal) to the inputs of A/D Converter U18 (if this chip or the data bus was bad, chances are you wouldn't be able to run the BIT test at all). Proceed as follows:

(1) Select MIC as the audio source on the front panel of the Remote Control Unit.

(2) Using a dual-trace scope (a storage scope is recommended), connect the CH1 input to U17-2. Adjust the scope to trigger on the negative transition of the signal at U17-2. Initiate the BIT test, and check to see whether U17-2 goes low at the start of the test. If it doesn't, skip to step 8.

(3) Connect the CH2 input of the scope to the junction of R102 and R103, and measure the PATCH RX AUDIO output. You should see a 1200 Hz sine wave at approximately 0.25 V pk-pk when you run the BIT test.

(a) If the signal here is good, check it at pin 3 of U33, pin 7 of AR5B (positive spikes), and pin 27 of U18. Remember to initiate the BIT test each time you take a measurement. This should isolate the problem to U33, AR5B, or the circuit board traces.

(b) If the signal at the junction of R102 and R103 is bad, work your way back through AR11B, U24B, U34C, AR2, and pin 7 of K1.

(4) If you have not found the faulty component by the time you get to pin 7 of K1, then connect the jumper from E21 to E22. Doing this will allow you to trace the signal from pin 2 of K1 all the way back to the CPU oscillator without having to initiate the BIT test each time you take a measurement. (You must initiate the BIT test to energize the relay; installing the E21-E22 jumper merely generates the 1200 Hz test signal by enabling the output of frequency divider U5.)

(5) Trace the signal from pin 2 of K1 back through AR14B, U41B, U37A, AR15B, U46B, U37B, AR13B, U40B, U35B, AR18, and R77.

(6) If you have not yet identified the faulty component, check the output and input of 1200 Hz Filter AR12B. The output, pin 7, should be a 1200 Hz sine wave; the input, pin 5, should be a signal at the same frequency.

(7) If the input to AR12B is bad, check for the 1200 Hz TTL square wave at pin 9 of U5. If the signal is not present, check pin 13. Pin 13 should be high with the E21-E22 jumper installed. When the jumper is not installed, pin 13 should go high at the start of the BIT test.

(a) If pin 13 is good, check for the 2.4 KHz input on pin 11. If the signal on pin 11 is bad, trace it back to pin 14 of U6.

(b) If pin 13 is bad, check U27A by removing and inserting the E21-E22 jumper. With the jumper removed, the output of U27A should be a low; with the jumper installed, the output should be high. (This assumes that the other input to U27A, pin 2, is high, which it normally is when the BIT test is not being run.) Initiate the BIT test and see whether U27A-2 (U17-2) goes low at the beginning of the test.

(8) If U27A-2 (U17-2) does not go low during BIT, check U17-11 and U17-3 for pulse activity. If no signal is observed, check U13-13 and U8C-8 for pulse activity.

(9) If U15C and U8C appear to be functioning correctly, and if the U13-13 signal is good, then check U13-4 and U13-6 for activity. Also check the address lines (A0, A1, A2) into U13; these should be pulsing high and low.

NOTE

This is about as far as you can go without getting into the micro-control circuitry. Normally, though, you don't have to go this far, because if there were a fault in this circuitry, you probably would not be able to run the BIT test in the first place. If you think you might have a micro-control fault, see the section below.

ADDITIONAL SYMPTOMS

Microprocessor Fault

Microprocessor-related faults are generally characterized by an abnormal, random display and

a loss of transceiver control functions. In this case, running the BIT test is of no avail. Therefore, if you think you have a microprocessor-related fault and you cannot run the BIT test, use the following procedure:

NOTE

The Audio/Microprocessor PWB Assy contains the Intel 8031 microprocessor, which controls all the functions of the Remote Control Unit, including the automatic BIT test. A failure in the microprocessor, EPROM, RAM, decoders, etc. will probably disable the BIT circuitry and most of the other Remote functions as well. Unless you are thoroughly familiar with the circuitry of this board and with the operation of microprocessors, it will be very difficult for you to isolate a faulty chip or discrete component using standard test equipment and troubleshooting techniques. The following procedures, therefore, are intended to check only the most obvious and fundamental aspects of the board's operation. If these do not enable you to identify the problem, then you will need more advanced test equipment and test procedures, which are beyond the scope of this manual.

(1) Check the supply voltage (+5 Vdc) to the microprocessor at U1-40.

(2) Check the reset pin (U1-9). Normally, this pin should be low all the time. If the microprocessor is not working properly, it will be pulsing high. If this is the case, then the CPU clock circuitry (the CPU Oscillator, Dividers, Program Timer, U27) is probably okay. If the reset line is continually high, look for a failure in U3 or U27.

(3) Check the clock inputs to the microprocessor: U1-19 (4.9152 MHz) and U1-15 (153.6 KHz).

(4) Check U1-30 to see if it's pulsing high and low; it should not be continuously high or low. Do the same for U1-16, U1-17, and all the address lines.

(5) Check that U1-12 is always high except for a low pulse when the Remote Control Unit is keyed by any keyline except the front panel keypad.

(6) Check that pins 20 and 22 of U12 are pulsating; they should not be continuously high or low.

(7) If all the above checks are good, try replacing the microprocessor U1. This chip is socketed for easy replacement.

(8) If the problem persists, replace the EPROM U12. This chip is also socketed.

Bad PATCH TX Audio

Check U40A, U35A, and their associated components.

Bad AUDIO 2 TX Audio

Check T3, AR12A, U35C, and their associated components.

Bad VOX, ANTIVOX Operation

Check AR14A, AR16, U44, U48A, U36A, AR17A, U50D, and their associated components.

Bad AUDIO 2 RX Audio

Check AR3A, T4, and their associated components.

Bad Speaker Audio

Check U34B, AR4A, U49D, and their associated components.

Bad Headphone Audio

Check AR6A and its associated components.

Bad Speaker/Headphone Audio

Check U34A, Q4, U43B, AR11A, and their associated components. There could also be a problem with the squelch circuitry, which causes U34C to open the main audio line.

Bad Sidetone

Check AR13A, U37C, and their associated components.

Incorrect SQUELCH Operation

Check the operation of the SQUELCH circuitry as follows:

(1) With the Remote Control Unit connected to a 100 Watt Transceiver and with REMOTE operation selected on the transceiver front panel, connect an RF signal generator to the antenna jack (J1) at the rear of the transceiver.

(2) Select USB on the Remote Control Unit at a frequency of 5 MHz.

(3) Set the signal generator carrier frequency to 5.001 MHz at -20 dBm.

(4) Modulate the carrier frequency with a 20 Hz signal at 50% modulation.

(5) Manually adjust the SQUELCH control on the Remote Control Unit's front panel, and check to see that the speaker audio is squelched as you rotate the control clockwise. Adjust the control so that the audio just squelches.

(6) Increase the percentage of modulation on the signal generator. The squelch should break.

If the SQUELCH circuitry does not respond as described above, do the following:

(7) Leaving the signal generator set up as before (with 50% modulation), connect a DC voltmeter to pin 7 of AR9B. You should see a positive DC voltage which varies in proportion to the increase or decrease in the percentage of modulation on the signal generator. If the voltage here is good, skip to step 9. If not, continue with step 8.

(8) Check the base of Q2 for a 1 KHz audio signal modulated at 20 Hz. If the signal is not good there, the problem is in the Audio Compressor circuit (AR7A, Q2, Q3, and their associated components). If the signal is good, check for a 20 Hz audio signal at the output of the Bandpass Filter, AR8B pin 7. If this signal is not good, the problem is in the Rectifier (AR7B ad its associated components) or the Bandpass Filter (AR8B and its associated components). If the signal is good at AR8B pin 7, then the problem is in rectifier AR8A and its associated components.

(9) Check the inputs to Comparator AR10A, pins 2 and 3. The voltage at pin 3 is determined by the setting of the SQUELCH control. With a DC voltmeter, check that this voltage varies as you adjust the SQUELCH control. The voltage at pin 2 should vary as you adjust the percentage of modulation on the signal generator. If it does not, DC Amplifier AR9B (or its associated components) is probably bad. When the voltage at pin 2 becomes more positive than the voltage at pin 3, then the output at pin 1 should go low. This is the unsquelched condition. When the voltage at pin 3 is more positive than at pin 2, pin 1 should go high. This is the squelched condition. If the output at pin 1 does not behave as described, then the problem is in AR10A.

(10) If the output of Comparator AR10A is good, then the problem has to be in the diodes CR34, CR35, or in Buffer Amplifier AR10B (or their associated components). You can also check the SQUELCH CONTROL line at pin 11 of U34C. This line should be low during the unsquelched condition and high during the squelched condition.

6-8. MULTIVOLTAGE SUPPLY ASSY, A3. The Multivoltage Supply Assy used in the Remote Control Unit is identical to the one used in the 100 Watt Transceiver. Therefore, follow the troubleshooting procedures listed in the Depot Manual for the 100 Watt Transceiver.

6-9. AUDIO INTERFACE PWB ASSY, A4. The Audio Interface PWB Assy used in the Remote Control Unit is identical to the one used in the 100 Watt Transceiver. Therefore, follow the troubleshooting procedures listed in the Depot Manual for the 100 Watt Transceiver.

APPENDIX A

CHECKS PERFORMED DURING THE AUTOMATIC BIT ROUTINE FOR THE REMOTE CONTROL UNIT

1. Turns on all front panel indicators for the duration of the test for inspection by the operator.
2. Turns on the BIT Oscillator signal (1200 Hz) and selects audio loop back on the Audio/Microprocessor PWB Assy.
3. Verifies the PATCH RX (receive) output from the Audio/Microprocessor PWB Assy.
4. Commands the rest of the system (the 100 Watt Transceiver and the 500 Watt or 1 KW Linear Power Amplifier) to perform an automatic BIT routine.

APPENDIX B

Performance Specifications

NOTE

The following specifications assume that all normal operating voltages are applied to the circuit board or assembly. No special test fixtures are required to measure the specifications, other than standard test equipment.

Audio/Microprocessor PWB Assy 10088-5000

PARAMETER	TEST CONDITIONS	ADJUSTMENT	TEST POINT	SPECIFICATION
Line Rx Audio	R244 fully CCW; 1 KHz signal into P4-7; adjust input to produce 0 dBm output at J4-7 (approx. -9.0 dBm input); decrease signal by 20 dB	R244	J4-7	Output at J4-7 can be brought back to 0 dBm by adjusting R244 CW
Audio 2 Rx Audio	1 KHz signal at -26.5 dBm into P4-7	R59	J6-3, -2	R59 can vary output from +4 ±0.5 dBm to +10 ±0.5 dBm; set level to +6 dBm
Audio 2 Tx Audio	R244 fully CCW; 1 KHz at +10 dBm into J6-4 and -5	R51	AR5-7	1.00 Vdc
Patch Tx Audio	1 KHz at 0 dBm into P4-10; adjust signal for 1.00 Vdc at AR5-7	None	P4-5	Approximately +10.0 dBm

Audio/Microprocessor PWB Assy (Continued)
10088-5000

PARAMETER	TEST CONDITIONS	ADJUSTMENT	TEST POINT	SPECIFICATION
Dynamic Mike TX Audio	1 KHz at 4 mV rms into J5-4; adjust signal for 1.00 Vdc at AR5-7	None	Same as above	-18 to -8 dBm
	Vary input ±15 dB	None	Same as above	Same as above
Sidetone	R240 fully CCW; adjust signal for 10 mV rms across J4-7	R240	J4-7	When R240 is rotated fully CW, output at J4-7 is approx. 100 mV rms

Multivoltage Supply Assy
10085-1240

PARAMETER	TEST CONDITIONS	ADJUSTMENT	TEST POINT	SPECIFICATION
-15 Vdc Output	+10.0 to +35 ±2 Vdc input with full load at all outputs: -15 Vdc = 0.5 A +15 Vdc = 1.7 A +5 Vdc = 2.5 A	None	E2	-14.85 to -15.3 Vdc
+15 Vdc Output		R4	E3	+15.0 Vdc
+5 Vdc Output		R61	E6	+5.0 Vdc

Audio Interface PWB Assy
10085-0570

PARAMETER	TEST CONDITIONS	ADJUSTMENT	TEST POINT	SPECIFICATION
Patch Transmit Output	1 KHz, 0 dBm into J1-5	None	J1-10	-10.8 ±1 dBm in 2W position; -11.0 ±1 dBm in 4W position
Line Balance	Same as above	R5	J1-7	Null (should be less than -40 dBm)
Line In Output	1 KHz, 0 dBm into J1-9	None	Same as above	-10.8 ±1 dBm in 2W position; -11.0 ±1 dBm in 4W position
Patch Balance	Same as above	R1	J1-10	Null (should be less than -40 dBm)

CHAPTER 7

ILLUSTRATED PARTS BREAKDOWN

Section 1. INTRODUCTION

7-1. PURPOSE. This chapter lists, illustrates, and describes the detail parts for the Remote Control Unit. Its purpose is for the identification, requisitioning, and issuance of parts at the depot level.

7-2. SCOPE. Bulk electrical items, such as terminals, wire, heat shrink tubing, etc., are not listed in this manual. Common hardware items, such as screws, washers, nuts, etc., when used to attach structural components that are not normally removed or disassembled, are also not listed. In general, the parts installed at the time the Remote Control Unit was manufactured are listed and identified in this chapter. When a part (including vendor items), which is different from the original, was installed during the manufacture of later items, series, or blocks, all parts are listed (and "Usable-On" coded). However, when the original part does not have continued application (no spares of the original were procured or such spares are no longer authorized for replacement), only the preferred part is listed. Also, when a part was installed during modification, and the original does not have continued application, only the preferred item is listed. Interchangeable and substitute parts, subsequently authorized by the Government, are not listed in this chapter; such items are identified by information available through the Interchangeable and Substitute (I & S) Data Systems. Refer to T.O. 00-25-184. When a standard size part can be replaced with an oversize or undersize part, the latter parts, showing sizes, are also listed. Repair Parts Kits and Quick Change Units are listed when they are available for replacement.

7-3. CHAPTER ORGANIZATION. This chapter is divided into two sections. Section I, INTRODUCTION, explains the purpose, scope, and organization of the chapter. Section II, MAINTENANCE PARTS LIST, consists of illustrations, in which the detail parts of the Remote Control Unit are identified by numbers (called index numbers), followed by lists which contain parts numbers, descriptions, and other relevant data for the items identified on the illustrations. Section II also contains two other lists: A numerical index, which lists the parts in alphanumerical sequence; and a reference designator index, which lists the electrical parts in alphabetical sequence by their reference designators.

7-4. SOURCE, MAINTENANCE, AND RECOVERABILITY (SMR) CODES. This chapter contains Air Force Peculiar In-Being Source and Repair Codes only. Definitions of these SMR codes, as well as detailed coding criteria and transposition matrices for each coding method, may be obtained from T.O. 00-25-195. Refer to page 7-13.

7.5. FEDERAL SUPPLY CODES FOR MANUFACTURERS (FSCM). The codes used in this chapter are as follows. The first list is in numerical order by FSCM; the second is in alphabetical order by manufacturer name.

FSCM	NAME AND ADDRESS
00000	Ordnance Corps The Defense Logistics Services Center
00141	PIC Design Corporation Division of Wells-Benrus Corporation Benson Road P.O. Box 1004 Middlebury, CT 06762
00159	Acme Electric Corporation Cuba, NY
00213	Nytronics Components Group, Inc. Subsidiary of Nytronics Inc. Orange Street Darlington, SC 29532
00348	Microtran Co., Inc. 145 E. Mineola Avenue P.O. Box 236 Valley Stream, NY 11582
00493	Sargent Art Division of Mead Corporation Hazleton, PA
00752	Eaton Corporation AIL Division Lond Island Plants Commack Road Deer Park, L.I., NY 11729
00758	Neilsen Products Company Lake Elmo, MN
00779	AMP, Inc. 2800 Fulling Mill P.O. Box 3608 Harrisburg, PA 17105
00853	Sangamo Weston, Inc. Sangamo Capacitor Division Subsidiary of Schlumberger LTD Sangamo Road P.O. Box 128 Pickens, SC 29671
01009	Alden Products Company 117 N. Main Street P.O. Box 860 Brockton, MA 02403
01295	Texas Instruments Inc. Semiconductor Group 13500 N. Central Expressway P.O. Box 225012 M/S 49 Dallas, TX 75265
01961	Varian Associates, Inc. Pulse Engineering Subsidiary 7250 Convoy CT P.O. Box 12235 San Diego, CA 92112
02111	Spectrol Electronics Corporation Subsidiary of Carrier Corporation 17070 E. Gale Avenue P.O. Box 1220 City of Industry, CA 91749
02114	Amperex Electronic Corporation Ferroxcube Division 5083 Kings HWY Saugerties, NY 12477
02289	HI-G Company Subsidiary of Nytronics Inc. 101 Locust Street Hartford, CT 06114
02660	Bunker Ramo-Eltra Corporation Amphenol Division 2801 S. 25th Avenue Broadview, IL 60153
02735	RCA Corporation Solid State Division Route 202 Somerville, NJ 08876
02768	Illinois Tool Works, Inc. Fastex Division 195 Algonquin Road Des Plaines, IL 60016
03508	General Electric Company Semi-Conductor Products Department W. Genesee Street Auburn, NY 13021
03888	Pyrofilm Division Division of KDI Electronics Inc. 60 S. Jefferson Road Whippany, NJ 07981
04009	Crouse-Hinds Arrow Hart Inc. Arrow Hart Division 103 Hawthorn Street Hartford, CT 06105
04222	AVX Ceramics Division of AVX Corporation 19th Avenue South P.O. Box 867 Myrtle Beach, SC 29577
04386	Litton Industries, Inc. Litton Systems Inc. Triad-Utrad Division 305 N. Briant Street Huntington, IN 46750
04426	Licon Division of Illinois Tool Works, Inc. 6615 W. Irving Park Road Chicago, IL 60634
04713	Motorola, Inc. Semiconductor Products Sector 5005 E. McDowell Road Phoenix, AZ 85008
05326	General Electric Company Aviation Service Operation/CINTI 333 W. Seymour Avenue Cincinnati, OH 45216
05828	General Instrument Corporation Government Systems Division 600 W. John Street Hicksville, NY 11802
06090	Raychem Corporation 300 Constitution Drive Menlo Park, CA 94025
06383	Panduit Corporation 17301 Ridgeland Tinley Park, IL 60477
06402	E-T-A Circuit Breakers 7400 N. Croname Road Chicago, IL 60648
06540	Mite Corporation Amatom Electronic Hardware Division 446 Blake Street New Haven, CT 06515
06980	Varian Associates, Inc. EIMAC Division 301 Industrial Way San Carlos, CA 94070
07263	Fairchild Camera and Instrument Corporation Semiconductor Division Subsidiary of Schlumberger LTD North American Sales Mail Stop 14-1053 401 Ellis Street P.O. Drawer 7284 Mountain View, CA 94042
07707	USM Corporation Subsidiary of Emhart Industries, Inc. USM Fastener Division 510 River Road Shelton, CT 06484
07858	Arrow Hart Canada LTD Scarborough, Ontario Canada M8Z 2R4
08289	Blinn Delbert Company, Inc. The 1678 E. Mission Blvd. P.O. Box 2007 Pomona, CA 91769 5065
08484	Breeze-Eastern Corporation Subsidiary of Transtechnology Corporation 700 Liberty Avenue Union, NJ 07083
08544	United Shoe Machinery Corporation Cincinnati, OH
08779	Signal Transformer Company, Inc. 500 Bayview Avenue Inwood, NY 11696
09023	Cornell-Dubilier Electronics 118 E. Jones Street Fuquay-Varina, NC 27526
09166	Stone City Products, Inc. 1206 7th Street P.O. Box 369 Bedford, IN 47421
09214	General Electric Company Semi-Conductor Products Department Power Components Operation W. Genesee Street Auburn, NY 13021
09353	C and K Components, Inc. 15 Riverdale Avenue Newton, MA 02158
10026	CSI Capacitors A Division of CSI Technologies, Inc. Del Dios Highway P.O. Box 2052 Escondido, CA 92025
10054	Marson Corp 130 Crescent Avenue Chelsea, MA 02150
11195	Magna Division Vermont American Corporation 1001 West Park Road Elizabethtown, KY 42701
11236	CTS of Berne, Inc. 406 Parr Road Berne, IN 46711

11897	Plastiglide Manufacturing Corporation 2701 W. El Segundo Blvd. Hawthorne, CA 90250
12040	National Semiconductor Corporation Commerce Drive P.O. Box 443 Danbury, CT 06810
12909	Cardion Electronics Division of General Signal Controls, Inc. A Unit of General Signal Corporation Long Island Expressway Woodbury, NY 11797
12969	Unitrode Corporation 580 Pleasant Street Watertown, MA 02172
13103	Thermalloy Company, Inc. 2021 W. Valley View Lane P.O. Box 340839 Dallas, TX 75234
13499	Rockwell International Corporation Collins Telecommunications Products Division Defense Electronics Operations 855 NE 35th Street Cedar Rapids, IA 52498
13764	Micro Plastics, Inc. HWY 178 N. Flippin, AR 72634
14304	Harris Corporation RF Communications Division 1680 University Avenue Rochester, NY 14610
14519	Designatronics, Inc. 55 S. Denton Avenue New Hyde Park, NY 11040
14655	Cornell-Dubilier Electronics Division of Federal Pacific Electric Company Government Contracts Department 150 Ave L Newark, NJ 07101
14674	Corning Glass Works Houghton Park Corning, NY 14830
14933	Defense Electronics Supply Center Dayton, OH 45401
15542	Mini-Circuits Laboratory Division of Scientific Components Corporation 2625 E. 14th Street Brooklyn, NY 11235
15801	Fenwal Electronics Division of Kidde Walter and Company, Inc. 63 Fountain Street Framingham, MA 01701
15912	T and B/Ansley Corporation Subsidiary of Thomas and Betts Corporation 4371 Valley Blvd. Los Angeles, CA 90031
15969	Dixie Chemical Company 3635 W. Dallas Street Houston, TX 77019
16546	Centralab, Inc. A North American Philips Company 4561 Colorado Los Angeles, CA 90039
16733	Cablewave Systems, Inc. 60 Dodge Avenue North Haven, CT 06473
16741	Triad Transformer Corporation Huntington, IN
17117	Electronic Molding Corporation 96 Mill Street Woonsocket, RI 02895
17856	Siliconix, Inc. 2201 Laurelwood Road Santa Clara, CA 95054
18212	American Trans-Coil Corporation 124-06 101st Avenue Richmond Hill, NY 11419
18324	Signetics Corporation Military Products Division 4130 S. Market Court Sacramento, CA 95834
18722	RCA Corporation Solid State Division Crestwood Road Mountaintop, PA 18707
18796	Murato Erie Technological Products State College Operations 1900 W. College Avenue State College, PA 16801
18876	Department of Army U.S. Army Missile Command Redstone Arsenal, AL 35809
18915	Birtcher Corporation The Industrial Division 4501 N. Arden Drive P.O. Box 4399 El Monte, CA 91734
19200	U.S. Army Armament Research and Development Command Dover, NJ 07801
19207	U.S. Army Tank Automotive Command Warren, MI 48090
19396	Illinois Tool Works, Inc. Paktron Division 900 Follin Lane S.E. Vienna, VA 22180
19647	Caddock Electronics, Inc. 1717 Chicago Avenue Riverside, CA 92507
19701	Mepco/Electra, Inc. A North American Philips Company P.O. Box 760 Mineral Wells, TX 76067
21052	High Energy Corporation Subsidiary of Inductotherm Corporation Lower Valley Road Parkesburg, PA 19365
21317	Electronic Applications Company 4918 Santa Anita Avenue El Monte, CA 91734
21340	ITT Telecom Products Corporation Network Systems Division HWY 137 Suncrest Drive P.O. Box N Carroll Reece Station Johnson City, TN 37601
22526	Du Pont E I De Nemours and Company, Inc. Photo Products Department Berg Electronics Division Route 83 New Cumberland, PA 17070
22701	Bestran Corporation Dilectron Division 2669 So. Myrtle Avenue Monrovia, CA 91016
22903	Singer Company The Link Flight Simulation Division Advanced Products Operation 1077 E. Arques Avenue P.O. Box 3484 Sunnyvale, CA 94088
24446	General Electric Company 3135 Easton Turnpike Fairfield, CT 06431
24546	Corning Glass Works 550 High Street Bradford, PA 16701
25330	General Connector Corporation Subsidiary of the Union Corporation 80 Bridge Street Newton, MA 02158
25403	Amperex Electronic Corporation Semiconductor Solid State and Active Devices-Electro Optical Devices Providence Pike Slatersville, RI 02876
26066	Minnesota Mining and Manfacturing Company Industrial Tape Division 3M Center St Paul, MN 55101
26344	Mite Corporation 466 Blake Street New Haven, CT 06515
26667	Litton Industries, Inc. Triad Distributor Division Huntington, IN
27014	National Semiconductor Corporation 2900 Semiconductor Drive Santa Clara, CA 95051
27264	Molex, Inc. 2222 Wellington Court Lisle, IL 60532
27777	Varo, Inc. Electron Devices Division 2203 Walnut Street P.O. Box 401146 Garland, TX 75040
28124	Minnesota Mining and Manufacturing Company Industrial Coated Abrasives Division 3M Center St. Paul, MN 55101

28480 Hewlett-Packard Company
Corporate HQ
3000 Hanover Street
Palo Alto, CA 94304

28482 Electronic Laboratory Supply Company
7208 Germantown Avenue
Philadelphia, PA 19119

28520 Heyco Molded Products
1750 Blvd.
P.O. Box 160
Kenilworth, NJ 07033

29964 Allied Devices Corporation
2365 Millburn Avenue
P.O. Drawer E.
Baldwin, NY 11510

30142 Minnesota Mining and Manufacturing Company
Energy Systems
3M Center Bldg. 551
St. Paul, MN 55101

31433 Union Carbide Corporation
Electronics Division
HWY 276 SE
P.O. Box 5928
Greenville, SC 29606

31922 Leeds and Northrup Company
A Unit of General Signal Corporation
Sumneytown Pike
North Wales, PA 19454

32039 Zeus Industrial Products, Inc.
Ft. Thompson Street
Raritan, NJ 08869

32097 PCC Pertec Division
Pertec Computer Corporation
9600 Irondale Avenue
Chatsworth, CA 91311

32284 Rotron Controls
Division Rotron, Inc.
Woodstock, NY

32293 Intersil Inc.
Subsidiary of General Electric Company
10710 N. Tantau Avenue
Cupertino, CA 95014

32848 Thompson Industries
Division of W M F Container Corporation
2501 E. Magnolia Street
Phoenix, AZ 85036

32890 Luminescent Systems Inc.
Etna Road
Grafton County
Lebanon, NH 03766

32997 Bourns, Inc.
Trimpot Division
1200 Columbia Avenue
Riverside, CA 92507

34335 Advanced Micro Devices
901 Thompson Place
Sunnyvale, CA 94086

34553 Amperex Electronic Corporation
Component Division
Hauppauge, NY

34649 Intel Corporation
3065 Bowers Avenue
Santa Clara, CA 95051

34899 Fair-Rite Products Corporation
1 Commercial Row
Wallkill, NY 12589

37695 Magnavox Government and Industrial Electronics Co.
1313 Production Road
Fort Wayne, IN 46808

44122 LXD
24500 High Point Road
Cleveland, OH 44122

44655 Ohmite Manufacturing Company
3601 W. Howard Street
Skokie, IL 60076

46384 Penn Engineering and Manfacturing Corporation
Old Easton Road
P.O. Box 1000
Danboro, PA 18916

49671 RCA Corporation
30 Rockefeller Plaza
New York, NY 10020

50157 Midwest Components, Inc.
1981 Port City Blvd.
P.O. Box 787
Muskegon, MI 49443

50173 Curt Straub Enterprises
444 W. Ocean Blvd.
Suite 1106
Long Beach, CA 90802

50434 Hewlett-Packard Company
Optoelectronics Division
640 Page Hill Road
Palo Alto, CA 94304

51144 IDI Electric Canada LTD
33 Fuller Road
Box 159
Ajax, Ontario Canada L1S 2E1

51984 NEC America, Inc.
2741 Prosperity Avenue
Fairfax, VA 22031

52458 Magnum Electric Corporation
6385 Dixie HWY
Erie, MI 48133

52559 Metraplex Corporation
Berkshire Industrial Park
Bldg. 3
Bethel, CT 06801

52760 Minnesota Mining and Manufacturing Company
Electro Products Division
341 Factory Road
Addison, IL 60101

53373 Midland-Ross Corporation
Cambion Division
Barnstead Road
Pittsfield, NH 03263

53894 Aham, Inc.
27901 Front Street
Rancho California, CA 92390

54254 Minnesota Mining and Manufacturing Company
Data Recording Products Division
350 S. Lewis Road
Camarillo, CA 93010

54473 Matsushita Electric Corporation of America
One Panasonic Way
P.O. Box 1501
Secaucus, NJ 07094

54904 Eltra Corporation
Subsidiary of Allied Chemical Company
Medwec Division
105 Skyport Drive
P.O. Box 417
Scottsbluff, NE 69361

55002 Power Conversion, Inc.
495 Boulevard
Elmwood Park, NJ 07407

55285 The Bergquist Company, Inc.
5300 Edina Industrial Blvd.
Minneapolis, MN 55435

55322 Samtec, Inc.
810 Progress Blvd.
P.O. Box 1147
New Albany, IN 47150

55566 R A F Electronic Hardware, Inc.
95 Silvermine Road
Seymour, CT 06483

56289 Sprague Electric Company
87 Marshall Street
North Adams, MA 01247

56637 RCD Components, Inc.
330 Bedford Street
Manchester, NH 03101

56699 Mepco/Electra, Inc.
6071 St. Andrews Road
Columbia, CS 29210

57074 Alberox Corporation
New Bedford, MA

57285 Millen Division
Electronic Instrument and Specialty Corporation
42 Pleasant Street
Stoneham, MA 02180

57771 Stimpson Company, Inc.
900 Sylvan Avenue
Bayport, NY 11705

57921 Bourns, Inc.
Precisions/Controls Division
1200 Columbia Avenue
Riverside, CA 92507

57922 Bourns, Inc.
Precisions/Controls Division
1200 Columbia Avenue
Riverside, CA 92507

57924 Bourns, Inc.
Networks Division
12155 Magnolia Avenue
Riverside, CA 92503

58167 Palco Connector, Inc.
75 Center Street
Bristol, CT 06010

59076	Designatronics, Inc. Stock Drive Products Division 55 S. Denton Avenue New Hyde Park, NY 11040
59730	Thomas and Betts Corporation HWY 218 S. Iowa City, IA 52240
59950	Shielding Technology, Inc. Subsidiary of Chomerics, Inc. 120 Ethel Road W. Piscataway, NJ 08854
59993	International Rectifier Semiconductor Division 233 Kansas Street El Segundo, CA 90245
60705	Cera-Mite Corporation 1327 6th Avenue Grafton, WI 53024
60963	Niagara Straw Company, Inc. 72 Lakeview Avenue Buffalo, NY 14201
61306	Silvered Electronic Mica Company, Inc. RT 6 Willimantic, CT 06226
61429	Fox Electronics Fox Enterprises, Inc. P.O. Box 1078 Cape Coral, FL 33910
61463	Uniroyal, Inc. Oxford Management and Research Center Benson Road Middlebury, CT 06749
61529	Aromat Corporation 250 Sheffield Street Mountainside, NJ 07092
61587	Hughes Electronic Devices Corporation 13321 Grass Valley Avenue P.O. Box 185 Grass Valley, CA 95945
61725	ITT Components Division International Telephone and Telegraph Corporation 3201 S. Standard Street P.O. Box 2197 Santa Ana, CA 92707
61735	Pulse Engineering, Inc. 5004 Lehigh Road College Park, MD 20740
61802	Toshiba Internation Industrial Division 13131 W. Little York Road P.O. Box 40906 Houston, TX 77041
61957	USM Corporation Subsidiary of Emhart Industries, Inc. 140 Federal Street Boston, MA 02107
62703	Varo Semiconductor, Inc. Subsidiary of Varo, Inc. 1000 N. Shiloh Road P.O. Box 40676 Garland, TX 75040
63312	Endicott Research Group, Inc. 2601 Wayne Street P.O. Box 269 Endicott, NY 13760
70485	Atlantic India Rubber Works, Inc. 571 W. Polk Street Chicago, IL 60607
70494	Emhart Industries, Inc. Hardware Division 225 Episcopal Road Berlin, CT 06037
70903	Belden Corporation Subsidiary of Cooper Industries, Inc. 2000 S. Batavia Avenue Geneva, IL 60134
70983	Bethlehem Steel Corporation Shipbuilding Department Room 1000 Martin Tower Bethlehem, PA 18016
71041	Incom International, Inc. Boston Gear Division, Inc. 14 Hayward Street Quincy, MA 02171
71279	Midland-Ross Corporation Cambion Division One Alewife Place Cambridge, MA 02140
71400	Bussmann Division of McGraw-Edison Company 114 Old State Road P.O. Box 14460 St. Louis, MO 63178
71450	CTS Corporation 905 N. West Blvd. Elkhart, IN 46514
71468	ITT Cannon Electric Division of International Telephone and Telegraph Corporation 10550 Talbert Avenue P.O. Box 8040 Fountain Valley, CA 92708
71785	TRW, Inc. TRW Cinch Connectors Division 1501 Morse Avenue Elk Grove Village, IL 60007
71895	Delavan Corporation 811 Fourth Street P.O. Box 100 West Des Moines, IA 50265
72136	Electro Motive Corporation Subsidiary of International Electronics Corporation Florence, SC
72619	Dialight Division Amperex Electronic Corporation 203 Harrison Place Brooklyn, NY 11237
72634	Dielectric Products Company, Inc. Jersey City, NJ
72794	Dzus Fastener Company, Inc. 425 Union Blvd. West Islip, NY 11795
72819	Carborundum Company The Electrical Products Division Globar Plant 3425 Hyde Park Blvd. P.O. Box 339 Niagara Falls, NY 14302
72835	Gochenaur Marine Company Philadelphia, PA
72962	Amerace Corporation Esna Division 2330 Vauxhall Road Union, NJ 07083
72982	Murata Erie North America, Inc. Erie Operations 645 W. 11th Street Erie, PA 16512
73138	Beckman Instruments, Inc. Beckman Electronic Technologies Subsidiary of Smith Kline/Beckman Corporation 2500 Harbor Blvd. Fullerton, CA 92634
73734	Federal Screw Products, Inc. 3917 N. Kedzie Avenue Chicago, IL 60618
73899	JFD Electronic Components A Division of Murata Erie North America 112 Mott Street Oceanside, NY 11572
73905	ITT Jennings 970 McLaughlin Avenue San Jose, CA 95116
73988	The Harrington And King Perforating Company, Inc. 5655 Fillmore Street Chicago, IL 60644
74199	Quam Nichols Company 218 E. Marquette Road Chicago, IL 60637
74276	General Instrument Corporation Lamp Division/Worldwide 4433 N. Ravenswood Avenue Chicago, IL 60640
74840	Illinois Capacitor, Inc. 3757 W. Touhy Avenue Lincolnwood, IL 60645
74868	Amphenol RF Operations An Allied Company 33 E. Franklin Street Danbury, CT 06810
74970	Johnson EF Company 299 10th Avenue SW Waseca, MN 56093
75042	TRW, Inc. TRW Electronic Components IRC Fixed Resistors Philadelphia Division 401 N. Broad Street Philadelphia, PA 19108
75263	Keystone Carbon Company 1935 State Street St. Marys, PA 15857

75378 CTS Knights, Inc.
400 Reimann Avenue
Sandwich, IL 60548

75382 Kulka Electric Corporation
A North American Philips Corporation
Mt. Vernon, NY

75915 Tracor Littelfuse, Inc.
800 E. Northwest HWY
Des Plaines, IL 60016

76301 McDonnel Douglas Corporation
McDonnel Aircraft Company
P.O. Box 516
St. Louis, MO 63166

76385 Minor Rubber Company, Inc.
49 Ackerman Street
Bloomfield, NJ 07003

76490 Moto Meter Gauge and Equipment
Division
Electric Auto Lite Company
New York, NY

77264 Phoenix Specialty Manufacturing
Company, Inc.
971 Stewart Avenue
Garden City, LI, NY 11530

77342 AMF, Inc.
Potter and Brumfield Division
200 Richland Creek Drive
Princeton, IN 47671

77347 Poulsen and Wardon, Inc.
Los Angeles, CA

77609 RCA Corporation
RCA Service Company
RTE 38
Cherry Hill, NJ 08358

77820 Allied Amphenol Products
Bendix Connector Operations
40-60 Delaware Street
Sidney, NY 13838

78488 The Stackpole Corporation
201 Stackpole Street
St. Marys, PA 15857

79061 Vaco Products Company
1510 Skokie Blvd.
Northbrook, IL 60062

79136 Waldes Kohinoor, Inc.
47-16 Austel Place
Long Island City, NY 11101

79218 Waterous Company
300 John E. Carroll Avenue E.
South St. Paul, MN 55075

79963 Zierick Manufacturing Company
Radio Circle
Mt. Kisco, NY 10549

80009 Tektronix, Inc.
4900 SW Griffith Drive
P.O. Box 500
Beaverton, OR 97077

80031 Mepco/Electra, Inc.
22 Columbia Road
Morristown, NJ 07960

80045 Cincinnati Electronics Corporation
Subsidiary of GEC, Inc.
An English Electric Corporation
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2630 Glendale-Milford Road
Cincinnati, OH 45241

80063 U.S. Army Communications And
Electronics
Materiel Readiness Command
Logistics Engineering Directorate
Fort Monmouth, NJ 07703

80101 General Electronics, Inc.
Paterson, NJ

80103 Veeco Instruments, Inc.
Lambda Electronics Division
515 Broad Hollow Road
Melville, NY 11747

80294 Bourns Instruments, Inc.
135 Magnolia Avenue
Riverside, CA 92506

80372 Marine Corps.
Navy Annex
Washington, DC 20380

81073 Grayhill, Inc.
561 Hillgrove Avenue
P.O. Box 10373
La Grange, IL 60525

81095 Triad-Utrad Division
Litton Systems, Inc.
National City, CA

81249 Library Efficiency Corporation
New York, NY

81349 Mil Spec

81483 International Rectifier
9220 Sunset Blvd.
Los Angeles, CA 90069

81564 Artted Company, Inc.
50 Warehouse Street
Springfield, MA 01118

81814 Zierick Manufacturing Company
Radio Circle
Mt. Kisco, NY 10549

82389 Switchcraft, Inc.
Subsidiary of Raytheon Company
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82415 Airpax Corporation
Frederick Division
A North American Philips Company
Husky Park
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Frederick, MD 21701

82877 Rotron, Inc.
Custom Division
7 Hasbrouck Lane
Woodstock, NY 12498

83014 Hartwell Corporation
900 S. Richfield Road
Placentia, CA 92670

83079 Amerace Corporation
Buchanan Crimptool Products
Division
1065 Floral Avenue
Union, NJ 07083

83325 SNC Manufacturing Company, Inc.
101 Waukau Road
Oshkosh, WI 54901

83330 Kulka Smith, Inc.
A North American Philips Company
1913 Atlantic Avenue
Manasquan, NJ 08736

84830 Lee Spring Company, Inc.
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Brooklyn, NY 11219

86797 Rogan Corporation
3455 Woodhead Drive
Northbrook, IL 60062

86928 Seastrom Manufacturing Company,
Inc.
701 Sonora Avenue
Glendale, CA 91201

89032 Eaton Corporation
Engineered Fasteners Division
8700 Brookpark Road
P.O. Box 6688
Cleveland, OH 44101

89110 AMP, Inc.
Capitron Division
1595 S. Mt. Joy Street
Elizabethtown, PA 17022

89265 AMF, Inc.
Potter and Brumfield Division
200 Richland Creek Drive
Princeton, IN 47671

90372 Wakefield Engineering Company
P.O. Box 818
Coeur D Alene, ID 83814

91506 Augat, Inc.
33 Perry Avenue
P.O. Box 799
Attleboro, MA 02703

91836 Kings Electronics Company, Inc.
40 Marbledale Road
Tuckahoe, NY 10707

91929 Honeywell, Inc.
Micro Switch Division
11 W. Spring Street
Freeport, IL 61032

92891 Alliance Engineering, Inc.
Alliance, OH

92967 Hutchens Industries, Inc.
215 N. Patterson Avenue
P.O. Box 1427 SSS
Springfield, MO 65805

93958 Republic Electronics Corporation
176 E. 7th Street
Paterson, NJ 07524

94033 Lapointe Industries, Inc.
Electronic Products Division
155 W. Main Street
Rockville, CT 06066

94117 Sanders Associates, Inc.
Daniel Webster HWY South
Nashua, NH 03061

94222 Southco, Inc.
210 N. Brinton Lake Road
Concordville, PA 19331

94464 Masstech Corporation
Subsidiary of Transtechnology Corporation
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RT 313
P.O. Box 2001
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94696 Magnecraft Electric Company
5575 N. Lynch Avenue
Chicago, IL 60630

95146 Alco Electronic Products, Inc.
1551 Osgood Street
North Andover, MA 01845

95275 Vitramon, Inc.
Box 544
Bridgeport, CT 06601

95987 WH Brady Company
727 W. Glendale Avenue
Milwaukee, WI 53209

96214 Texas Instruments, Inc.
Equipment Group
13500 N. Central EXPY
P.O. Box 660246 M/S 3137
Dallas, TX 75266

96238 Dataproducts New England, Inc.
Barnes Park North
Wallingford, CT 06492

96804 Bell Industries, Inc.
JW Miller Division
19070 Reyes Avenue
P.O. Box 5825
Compton, CA 90224

96906 Mil Spec

97520 Basler Electric Company
RT 143
P.O. Box 269
Highland, IL 62249

97942 Westinghouse Electric Corporation
Defense and Electronic Systems Center
Baltimore-Washington Airport
P.O. Box 1897 MS 984
Baltimore, MD 21203

98003 Nielsen Hardware Corporation
770 Wethersfield Avenue
P.O. Box 568
Hartford, CT 06141

98291 Sealectro Corporation
BICC Electronics
40 Lindeman Drive
Trumbull, CT 06611

98410 ETC-Molex, Inc.
Subsidiary of Molex, Inc.
5201 Richmond Road
Bedford Heights, OH 44146

98734 Hewlett-Packard Company
Manufacturing Division
Palo Alto, CA

99120 Plastic Capacitors, Inc.
2623 N. Pulaski Road
Chicago, IL 60639

99167 Sundstrand Aviation Operations
Unit of Sundstrand Corporation
4747 Harrison Avenue
P.O. Box 7002
Rockford, IL 61125

99256 PEM Engineering Company
Los Angeles, CA

99313 Varian Associates, Inc.
Microwave Tube Division
611 Hansen Way
Palo Alto, CA 94303

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Cuba, NY

Advanced Micro Devices 34335
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Sunnyvale, CA 94086

Aham, Inc. 53894
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Rancho California, CA 92390

Airpax Corporation 82415
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A North American Philips Company
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Alberox Corporation 57074
New Bedford, MA

Alco Electronic Products, Inc. 95146
1551 Osgood Street
North Andover, MA 01845

Alden Products Company 01009
117 N. Main Street
P.O. Box 860
Brockton, MA 02403

Alliance Engineering, Inc. 92891
Alliance, OH

Allied Amphenol Products 77820
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Sidney, NY 13838

Allied Devices Corporation 29964
2365 Milburn Avenue
P.O. Drawer E.
Baldwin, NY 11510

Amerace Corporation 72962
Esna Division
2330 Vauxhall Road
Union, NJ 07083

Amerace Corporation 83079
Buchanan Crimptool Products Division
1065 Floral Avenue
Union, NJ 07083

American Trans-Coil Corporation 18212
124-06 101st Avenue
Richmond Hill, NY 11419

AMF, Inc. 77342
Potter and Brumfield Division
200 Richland Creek Drive
Princeton, IN 47671

AMF, Inc. 89265
Potter and Brumfield Division
200 Richland Creek Drive
Princeton, IN 47671

AMP, Inc. 89110
Capitron Division
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Elizabethtown, PA 17022

AMP, Inc. 00779
2800 Fulling Mill
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Harrisburg, PA 17105

Amperex Electronic Corporation 34553
Component Division
Hauppauge, NY

Amperex Electronic Corporation 02114
Ferroxcube Division
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Saugerties, NY 12477

Amperex Electronic Corporation 25403
Semiconductor Solid State and Active Devices-Electro
Optical Devices
Providence Pike
Slatersville, RI 02876

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Danbury, CT 06810

Aromat Corporation 61529
250 Sheffield Street
Mountainside, NJ 07092

Arrow Hart Canada LTD 07858
Scarborough, Ontario Canada M8Z 2R4

Artted Company, Inc. 81564
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Atlantic India Rubber Works, Inc. 70485
571 W. Polk Street
Chicago, IL 60607

Augat, Inc. 91506
33 Perry Avenue
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Attleboro, MA 02703

AVX Ceramics 04222
Division of AVX Corporation
19th Avenue South
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Fullerton, CA 92634

Belden Corporation 70903
Subsidiary of Cooper Industries, Inc.
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Geneva, IL 60134

Bell Industries, Inc. 96804
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19070 Reyes Avenue
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Bergquist Company, Inc., The 55285
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Dilectron Division
2669 So. Myrtle Avenue
Monrovia, CA 91016

Bethlehem Steel Corporation 70983
Shipbuilding Department
Room 1000 Martin Tower
Bethlehem, PA 18016

Birtcher Corporation 18915
The Industrial Division
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El Monte, CA 91734

Blinn Delbert Company, Inc. 08289
The 1678 E. Mission Blvd.
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Bourns, Inc. 32997
Trimpot Division
1200 Columbia Avenue
Riverside, CA 92507

Bourns, Inc. 57921
Precisions/Controls Division
1200 Columbia Avenue
Riverside, CA 92507

Bourns, Inc. 57922
Precisions/Controls Division
1200 Columbia Avenue
Riverside, CA 92507

Bourns, Inc. 57924
Networks Division
12155 Magnolia Avenue
Riverside, CA 92503

Bourns Instruments, Inc. 80294
135 Magnolia Avenue
Riverside, CA 92506

Breeze-Eastern Corporation 08484
Subsidiary of Transtechnology Corporation
700 Liberty Avenue
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Bunker Ramo-Eltra Corporation 02660
Amphenol Division
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Broadview, IL 60153

Bussmann 71400
Division of McGraw-Edison Company
114 Old State Road
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C and K Components, Inc. 09353
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Newton, MA 02158

Cablewave Systems, Inc. 16733
60 Dodge Avenue
North Haven, CT 06473

Caddock Electronics, Inc. 19647
1717 Chicago Avenue
Riverside, CA 92507

Carborundum Company 72819
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Niagara Falls, NY 14302

Cardion Electronics 12909
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Centralab, Inc. 16546
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Cera-Mite Corporation 60705
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118 E. Jones Street
Fuquay-Varina, NC 27526

Cornell-Dubilier Electronics 14655
Division of Federal Pacific Electric Company
Government Contracts Department
150 Ave L
Newark, NJ 07101

Corning Glass Works 14674
Houghton Park
Corning, NY 14830

Corning Glass Works 24546
550 High Street
Bradford, PA 16701

Crouse-Hinds Arrow Hart Inc. 04009
Arrow Hart Division
103 Hawthorn Street
Hartford, CT 06105

CSI Capacitors 10026
A Division of CSI Technologies, Inc.
Del Dios Highway
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Escondido, CA 92025

CTS Corporation 71450
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Elkhart, IN 46514

CTS Knights, Inc. 75378
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Sandwich, IL 60548

CTS of Berne, Inc. 11236
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Berne, IN 46711

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Long Beach, CA 90802

Dataproducts New England, Inc. 96238
Barnes Park North
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Defense Electronics Supply Center 14933
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Delavan Corporation 71895
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West Des Moines, IA 50265

Department of Army 18876
U.S. Army Missile Command
Redstone Arsenal, AL 35809

Designatronics, Inc. 14519
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New Hyde Park, NY 11040

Designatronics, Inc. 59076
Stock Drive Products Division
55 S. Denton Avenue
New Hyde Park, NY 11040

Dialight Division 72619
Amperex Electronic Corporation
203 Harrison Place
Brooklyn, NY 11237

Dielectric Products Company, Inc. 72634
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Dixie Chemical Company 15969
3635 W. Dallas Street
Houston, TX 77019

Du Pont E I De Nemours and Company, Inc. 22526
Photo Products Department
Berg Electronics Division
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New Cumberland, PA 17070

Dzus Fastener Company, Inc. 72794
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West Islip, NY 11795

Eaton Corporation 00752
AIL Division Lond Island Plants
Commack Road
Deer Park, L.I., NY 11729

Eaton Corporation 89032
Engineered Fasteners Division
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Electronic Applications Company 21317
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El Monte, CA 91734

Electronic Laboratory Supply Company 28482
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Philadelphia, PA 19119

Electronic Molding Corporation 17117
96 Mill Street
Woonsocket, RI 02895

Eltra Corporation 54904
Subsidiary of Allied Chemical Company
Medwec Division
105 Skyport Drive
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Scottsbluff, NE 69361

Emhart Industries, Inc. 70494
Hardware Division
225 Episcopal Road
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Endicott Research Group, Inc. 63312
2601 Wayne Street
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E-T-A Circuit Breakers 06402
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Fairchild Camera and Instrument
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Semiconductor Division
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Mountain View, CA 94042

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Wallkill, NY 12589

Federal Screw Products, Inc. 73734
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Fenwal Electronics 15801
Division of Kidde Walter and
Company, Inc.
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Framingham, MA 01701

Fox Electronics 61429
Fox Enterprises, Inc.
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Cape Coral, FL 33910

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Subsidiary of the Union Corporation
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General Electric Company 03508
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Auburn, NY 13021

General Electric Company 05326
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Cincinnati, OH 45216

General Electric Company 09214
Semi-Conductor Products Department
Power Components Operation
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Auburn, NY 13021

General Electric Company 24446
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Fairfield, CT 06431

General Electronics, Inc. 80101
Paterson, NJ

General Instrument Corporation 05828
Government Systems Division
600 W. John Street
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General Instrument Corporation 74276
Lamp Division/Worldwide
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Philadelphia, PA

Grayhill, Inc. 81073
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Harrington And King Perforating
Company, Inc., The 73988
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RF Communications Division
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Hewlett-Packard Company 50434
Optoelectronics Division
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Hewlett-Packard Company 98734
Manufacturing Division
Palo Alto, CA

Heyco Molded Products 28520
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Lower Valley Road
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HI-G Company 02289
Subsidiary of Nytronics Inc.
101 Locust Street
Hartford, CT 06114

Honeywell, Inc. 91929
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Hughes Electronic Devices
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Hutchens Industries, Inc. 92967
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IDI Electric Canada LTD 51144
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Lincolnwood, IL 60645

Illinois Tool Works, Inc. 02768
Fastex Division
195 Algonquin Road
Des Plaines, IL 60016

Illinois Tool Works, Inc. 19396
Paktron Division
900 Follin Lane S.E.
Vienna, VA 22180

Incom International, Inc. 71041
Boston Gear Division, Inc.
14 Hayward Street
Quincy, MA 02171

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Santa Clara, CA 95051

International Rectifier 59993
Semiconductor Division
233 Kansas Street
El Segundo, CA 90245

International Rectifier 81483
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ITT Components Division 61725
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ITT Jennings 73905
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Waseca, MN 56093

Keystone Carbon Company 75263
1935 State Street
St. Marys, PA 15857

Kings Electronics Company, Inc. 91836
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Tuckahoe, NY 10707

Kulka Electric Corporation 75382
A North American Philips Corporation
Mt. Vernon, NY

Kulka Smith, Inc. 83330
A North American Philips Company
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Manasquan, NJ 08736

Lapointe Industries, Inc. 94033
Electronic Products Division
155 W. Main Street
Rockville, CT 06066

Lee Spring Company, Inc. 84830
1462 62nd Street
Brooklyn, NY 11219

Leeds and Northrup Company 31922
A Unit of General Signal Corporation
Sumneytown Pike
North Wales, PA 19454

Library Efficiency Corporation 81249
New York, NY

Licon 04426
Division of Illinois Tool Works, Inc.
6615 W. Irving Park Road
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Litton Industries, Inc. 04386
Litton Systems Inc.
Triad-Utrad Division
305 N. Briant Street
Huntington, IN 46750

Litton Industries, Inc. 26667
Triad Distributor Division
Huntington, IN

Luminescent Systems Inc. 32890
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Grafton County
Lebanon, NH 03766

LXD 66670
24500 High Point Road
Cleveland, Ohio 44122

Magna Division 11195
Vermont American Corporation
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Elizabethtown, KY 42701

Magnavox Government and Industrial
Electronics Co. 37695
1313 Production Road
Fort Wayne, IN 46808

Magnecraft Electric Company 94696
5575 N. Lynch Avenue
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Magnum Electric Corporation 52458
6385 Dixie HWY
Erie, MI 48133

Marine Corps. 80372
Navy Annex
Washington, DC 20380

Marson Corp. 10054
130 Crescent Avenue
Chelsea, MA 02150

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Subsidiary of Transtechnology
Corporation
Swamp Road
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Doylestown, PA 18901

Matsushita Electric Corporation of
America 54473
One Panasonic Way
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Secaucus, NJ 07094

McDonnel Douglas Corporation 76301
McDonnel Aircraft Company
P.O. Box 516
St. Louis, MO 63166

Mepco/Electra, Inc. 19701
A North American Philips Company
P.O. Box 760
Mineral Wells, TX 76067

Mepco/Electra, Inc. 56699
6071 St. Andrews Road
Columbia, CS 29210

Mepco/Electra, Inc. 80031
22 Columbia Road
Morristown, NJ 07960

Metraplex Corporation 52559
Berkshire Industrial Park
Bldg. 3
Bethel, CT 06801

Midland-Ross Corporation 53373
Cambion Division
Barnstead Road
Pittsfield, NH 03263

Midland-Ross Corporation 71279
Cambion Division
One Alewife Place
Cambridge, MA 02140

Micro Plastics, Inc. 13764
HWY 178 N.
Flippin, AR 72634

Microtran Co., Inc. 00348
145 E. Mineola Avenue
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Valley Stream, NY 11582

Midwest Components, Inc. 50157
1981 Port City Blvd.
P.O. Box 787
Muskegon, MI 49443

Mil Spec 81349

Mil Spec 96906

Millen Division 57285
Electronic Instrument and Specialty
Corporation
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Stoneham, MA 02180

Mini-Circuits Laboratory 15542
Division of Scientific Components
Corporation
2625 E. 14th Street
Brooklyn, NY 11235

Minnesota Mining and Manfacturing
Company 26066
Industrial Tape Division
3M Center
St Paul, MN 55101

Minnesota Mining and Manufacturing
Company 28124
Industrial Coated Abrasives Division
3M Center
St. Paul, MN 55101

Minnesota Mining and Manufacturing
Company 30142
Energy Systems
3M Center Bldg. 551
St. Paul, MN 55101

Minnesota Mining and Manufacturing
Company 52760
Electro Products Division
341 Factory Road
Addison, IL 60101

Minnesota Mining and Manufacturing
Company 54254
Data Recording Products Division
350 S. Lewis Road
Camarillo, CA 93010

Minor Rubber Company, Inc. 76385
49 Ackerman Street
Bloomfield, NJ 07003

Mite Corporation 06540
Amatom Electronic Hardware Division
446 Blake Street
New Haven, CT 06515

Mite Corporation 26344
466 Blake Street
New Haven, CT 06515

Molex, Inc. 27264
2222 Wellington Court
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Moto Meter Gauge and Equipment
Division 76490
Electric Auto Lite Company
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Motorola, Inc. 04713
Semiconductor Products
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Erie Operations
645 W. 11th Street
Erie, PA 16512

Murato Erie Technological Products 18796
State College Operations
1900 W. College Avenue
State College, PA 16801

National Semiconductor Corporation 12040
Commerce Drive
P.O. Box 443
Danbury, CT 06810

National Semiconductor Corporation 27014
2900 Semiconductor Drive
Santa Clara, CA 95051

NEC America, Inc. 51984
2741 Prosperity Avenue
Fairfax, VA 22031

Neilsen Products Company 00758
Lake Elmo, MN

Nielsen Hardware Corporation 98003
770 Wethersfield Avenue
P.O. Box 568
Hartford, CT 06141

Niagara Straw Company, Inc. 60963
72 Lakeview Avenue
Buffalo, NY 14201

Nytronics Components Group, Inc. 00213
Subsidiary of Nytronics Inc.
Orange Street
Darlington, SC 29532

Ohmite Manufacturing Company 44655
3601 W. Howard Street
Skokie, IL 60076

Ordnance Corps 00000
The Defense Logistics Services Center

Palco Connector, Inc. 58167
75 Center Street
Bristol, CT 06010

Panduit Corporation 06383
17301 Ridgeland
Tinley Park, IL 60477

PCC Pertec Division 32097
Pertec Computer Corporation
9600 Irondale Avenue
Chatsworth, CA 91311

PEM Engineering Company 99256
Los Angeles, CA

Penn Engineering and Manfacturing
Corporation 46384
Old Easton Road
P.O. Box 1000
Danboro, PA 18916

Phoenix Specialty Manufacturing
Company, Inc. 77264
971 Stewart Avenue
Garden City, LI, NY 11530

PIC Design Corporation 00141
Division of Wells-Benrus Corporation
Benson Road
P.O. Box 1004
Middlebury, CT 06762

Plastic Capacitors, Inc. 99120
2623 N. Pulaski Road
Chicago, IL 60639

Plastiglide Manufacturing Corporation 11897
2701 W. El Segundo Blvd.
Hawthorne, CA 90250

Poulsen and Wardon, Inc. 77347
Los Angeles, CA

Power Conversion, Inc. 55002
495 Boulevard
Elmwood Park, NJ 07407

Pulse Engineering, Inc. 61735
5004 Lehigh Road
College Park, MD 20740

Pyrofilm Division 03888
Division of KDI Electronics Inc.
60 S. Jefferson Road
Whippany, NJ 07981

Quam Nichols Company 74199
218 E. Marquette Road
Chicago, IL 60637

R A F Electronic Hardware, Inc. 55566
95 Silvermine Road
Seymour, CT 06483

Raychem Corporation 06090
300 Constitution Drive
Menlo Park, CA 94025

RCA Corporation 02735
Solid State Division
Route 202
Somerville, NJ 08876

RCA Corporation 18722
Solid State Division
Crestwood Road
Mountaintop, PA 18707

RCA Corporation 49671
30 Rockerfeller Plaza
New York, NY 10020

RCA Corporation 77609
RCA Service Company
RTE 38
Cherry Hill, NJ 08358

RCD Components, Inc. 56637
330 Bedford Street
Manchester, NH 03101

Republic Electronics Corporation 93958
176 E. 7th Street
Paterson, NJ 07524

Rockwell International Corporation 13499
Collins Telecommunications Products
Division
Defense Electronics Operations
855 NE 35th Street
Cedar Rapids, IA 52498

Rogan Corporation 86797
3455 Woodhead Drive
Northbrook, IL 60062

Rotron Controls 32284
Division Rotron, Inc.
Woodstock, NY

Rotron, Inc. 82877
Custom Division
7 Hasbrouck Lane
Woodstock, NY 12498

Samtec, Inc. 55322
810 Progress Blvd.
P.O. Box 1147
New Albany, IN 47150

Sanders Associates, Inc. 94117
Daniel Webster HWY South
Nashua, NH 03061

Sangamo Weston, Inc. 00853
Sangamo Capacitor Division
Subsidiary of Schlumberger LTD
Sangamo Road
P.O. Box 128
Pickens, SC 29671

Sargent Art 00493
Division of Mead Corporation
Hazleton, PA

Sealectro Corporation 98291
BICC Electronics
40 Lindeman Drive
Trumbull, CT 06611

Seastrom Manufacturing
Company, Inc. 86928
701 Sonora Avenue
Glendale, CA 91201

Shielding Technology, Inc. 59950
Subsidiary of Chomerics, Inc.
120 Ethel Road W.
Piscataway, NJ 08854

Signal Transformer Company, Inc. 08779
500 Bayview Avenue
Inwood, NY 11696

Signetics Corporation 18324
Military Products Division
4130 S. Market Court
Sacramento, CA 95834

Siliconix, Inc. 17856
2201 Laurelwood Road
Santa Clara, CA 95054

Silvered Electronic Mica
Company, Inc. 61306
RT 6
Willimantic, CT 06226

Singer Company 22903
The Link Flight Simulation Division
Advanced Products Operation
1077 E. Arques Avenue
P.O. Box 3484
Sunnyvale, CA 94088

SNC Manufacturing Company, Inc. 83325
101 Waukau Road
Oshkosh, WI 54901

Southco, Inc. 94222
210 N. Brinton Lake Road
Concordville, PA 19331

Spectrol Electronics Corporation 02111
Subsidiary of Carrier Corporation
17070 E. Gale Avenue
P.O. Box 1220
City of Industry, CA 91749

Sprague Electric Company 56289
87 Marshall Street
North Adams, MA 01247

Stackpole Corporation, The 78488
201 Stackpole Street
St. Marys, PA 15857

Stimpson Company, Inc. 57771
900 Sylvan Avenue
Bayport, NY 11705

Stone City Products, Inc. 09166
1206 7th Street
P.O. Box 369
Bedford, IN 47421

Sundstrand Aviation Operations 99167
Unit of Sundstrand Corporation
4747 Harrison Avenue
P.O. Box 7002
Rockford, IL 61125

Switchcraft, Inc. 82389
Subsidiary of Raytheon Company
5555 N. Elstron Avenue
Chicago, IL 60630

T and B/Ansley Corporation 15912
Subsidiary of Thomas and Betts
Corporation
4371 Valley Blvd.
Los Angeles, CA 90031

Tektronix, Inc. 80009
4900 SW Griffith Drive
P.O. Box 500
Beaverton, OR 97077

Texas Instruments Inc. 01295
Semiconductor Group
13500 N. Central Expressway
P.O. Box 225012 M/S 49
Dallas, TX 75265

Texas Instruments, Inc. 96214
Equipment Group
13500 N. Central EXPY
P.O. Box 660246 M/S 3137
Dallas, TX 75266

Thermalloy Company, Inc. 13103
2021 W. Valley View Lane
P.O. Box 340839
Dallas, TX 75234

Thomas and Betts Corporation 59730
HWY 218 S.
Iowa City, IA 52240

Thompson Industries 32848
Division of W M F Container Corporation
2501 E. Magnolia Street
Phoenix, AZ 85036

Toshiba Internation 61802
Industrial Division
13131 W. Little York Road
P.O. Box 40906
Houston, TX 77041

Tracor Littelfuse, Inc. 75915
800 E. Northwest HWY
Des Plaines, IL 60016

Triad Transformer Corporation 16741
Huntington, IN

Triad-Utrad Division 81095
Litton Systems, Inc.
National City, CA

TRW, Inc. 71785
TRW Cinch Connectors Division
1501 Morse Avenue
Elk Grove Village, IL 60007

TRW, Inc. 75042
TRW Electronic Components
IRC Fixed Resistors
Philadelphia Division
401 N. Broad Street
Philadelphia, PA 19108

Union Carbide Corporation 31433
Electronics Division
HWY 276 SE
P.O. Box 5928
Greenville, SC 29606

Uniroyal, Inc. 61463
Oxford Management and Research
Center
Benson Road
Middlebury, CT 06749

United Shoe Machinery Corporation 08544
Cincinnati, OH

Unitrode Corporation 12969
580 Pleasant Street
Watertown, MA 02172

U.S. Army Armament Research and
Development Command 19200
Dover, NJ 07801

U.S. Army Communications and
Electronics 80063
Materiel Readiness Command
Logistics Engineering Directorate
Fort Monmouth, NJ 07703

U.S. Army Tank Automotive
Command 19207
Warren, MI 48090

USM Corporation 07707
Subsidiary of Emhart Industries, Inc.
USM Fastener Division
510 River Road
Shelton, CT 06484

USM Corporation 61957
Subsidiary of Emhart Industries, Inc.
140 Federal Street
Boston, MA 02107

Vaco Products Company 79061
1510 Skokie Blvd.
Northbrook, IL 60062

Varian Associates, Inc. 01961
Pulse Engineering Subsidiary
7250 Convoy CT
P.O. Box 12235
San Diego, CA 92112

Varian Associates, Inc. 06980
EIMAC Division
301 Industrial Way
San Carlos, CA 94070

Varian Associates, Inc. 99313
Microwave Tube Division
611 Hansen Way
Palo Alto, CA 94303

Varo, Inc. 27777
Electron Devices Division
2203 Walnut Street
P.O. Box 401146
Garland, TX 75040

Varo Semiconductor, Inc. 62703
Subsidiary of Varo, Inc.
1000 N. Shiloh Road
P.O. Box 40676
Garland, TX 75040

Veeco Instruments, Inc. 80103
Lambda Electronics Division
515 Broad Hollow Road
Melville, NY 11747

Vitramon, Inc. 95275
Box 544
Bridgeport, CT 06601

Wakefield Engineering Company 90372
P.O. Box 818
Coeur D Alene, ID 83814

Waldes Kohinoor, Inc. 79136
47-16 Austel Place
Long Island City, NY 11101

Waterous Company 79218
300 John E. Carroll Avenue E.
South St. Paul, MN 55075

Westinghouse Electric Corporation 97942
Defense and Electronic Systems Center
Baltimore-Washington Airport
P.O. Box 1897 MS 984
Baltimore, MD 21203

WH Brady Company 95987
727 W. Glendale Avenue
Milwaukee, WI 53209

Zeus Industrial Products, Inc. 32039
Ft. Thompson Street
Raritan, NJ 08869

Zierick Manufacturing Company 79963
Radio Circle
Mt. Kisco, NY 10549

Zierick Manufacturing Company 81814
Radio Circle
Mt. Kisco, NY 10549

JOINT MILITARY SERVICES UNIFORM SMR CODING MATRIX T.O. 00-25-195

SOURCE				MAINTENANCE USE		MAINTENANCE REPAIR		RECOVERABILITY		ERRC CODE	
1st Position		2nd Position		3rd Position		4th Position		5th Position		6th Position	
P	Procurable	A	Stocked	O	Remove/ Replace at Organizational Level	Z	No Repair	Z	Nonreparable Condemn at 3rd Position Level	N	Nonrecoverable XB3 Condemn at Any Level
		B	Insurance								
		C	Deteriorative								
		E	Support Equipment, Stocked								
		F	Support Equipment, Nonstocked			B	No Repair Recondition	O	Reparable Condemn at Organizational	P	Recoverable XF3 Condemn at Field
		G	Sustained Life Support								
K	Component of a Repair Kit	F	Intermediate Kit	F	Remove/ Replace at Intermediate Level	O	Repair at Organizational	F	Reparable Condemn at Intermediate	C	Recoverable XD1 (SCARS) Condemn at Depot
		D	Depot Kit								
		B	In Both Kits			F	Repair at Intermediate			T	Recoverable XD2 Condemn at Depot
M	Manufacture	O	Organization								
		F	Intermediate								
		D	Depot	D	Remove/Replace at Depot Level	D	Limited Repair at O or F Level Overhaul at Depot	D	Reparable Condemn at Depot	S	Nonexpendable Support Equipment, Depot ND2
A	Assemble	O	Organization								
		F	Intermediate								
		D	Depot								
X	Nonprocured	A	Requisition NHA					A	Special Handling	U	Nonexpendable Support Equipment, Organizational and Intermediate NF2
		B	Reclamation from IM			L	Repair at Depot				
		C	Mfg Drawings								

Section II. MAINTENANCE PARTS LIST

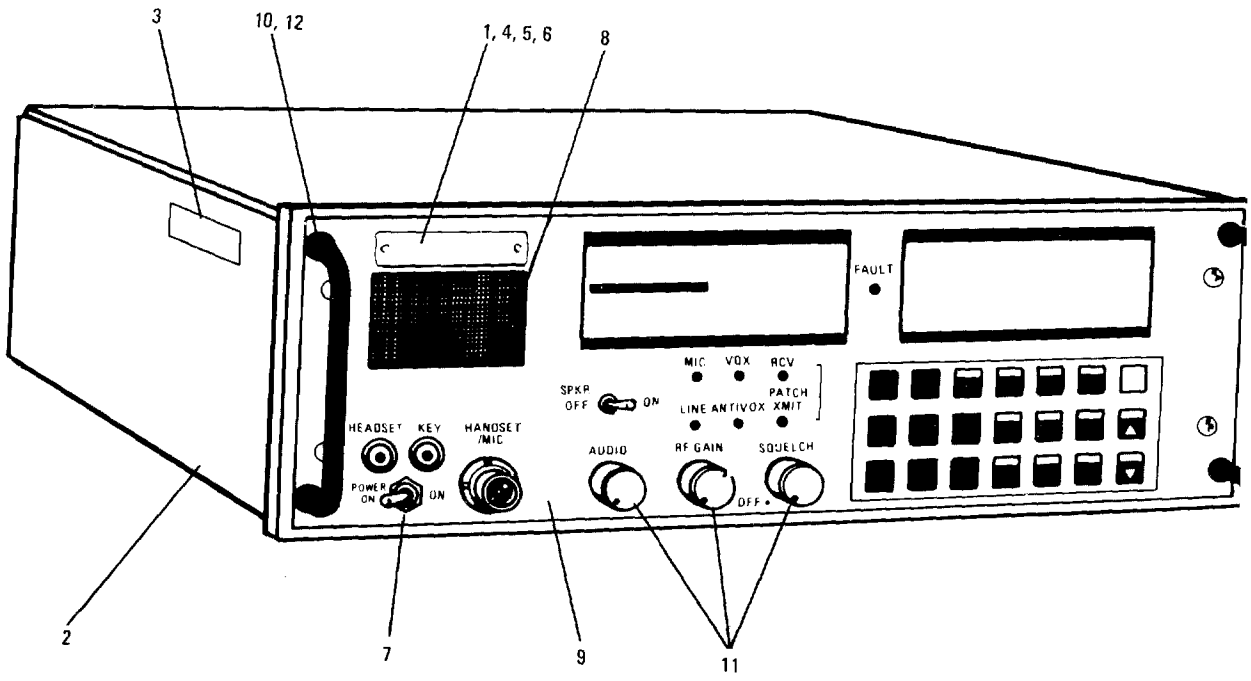

Figure 7-1. Remote Control Unit, C-11329/URC, Front View

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-1 -	10088-0000	14304	CONTROL UNIT,REMOTE*	1		PE0DD
- 1	10085-0008	14304	. PLATE,IDENT	1		PADZZ
- 2	10088-0100	14304	. REMOTE CONTROL ASSY	1		PA0DD
- 3	10088-0071	14304	. PLATE,IDENT	1		MD0
- 4	MS51957-18	96906	. SCREW,MACHINE (AP)	2		PA0ZZ
- 5	22NTE-62	72962	. NUT,CLINCH (AP)	2		PA0ZZ
- 6	MS15795-803	96906	. WASHER,FLAT (AP)	4		PA0ZZ
- 7	7401T1ZGE	09353	. SWITCH	1		PA0ZZ
- 8	22-SLOTB-BRASS	73988	. SHIELD,SPEAKER	1		XB
- 9	10085-2017	14304	. OVERLAY,PANEL	1		XB
- 10	10350-A-1032-2	06540	. HANDLE	2		XB
- 11	MS-67-1-DC-WD	86797	. KNOB	3		PA0ZZ
- 12	MS24693-C272	96906	. SCREW,MACHINE (AP)	4		PA0ZZ

*Installation requires Ancillary Kit 10088-0060. See figure 7-4.

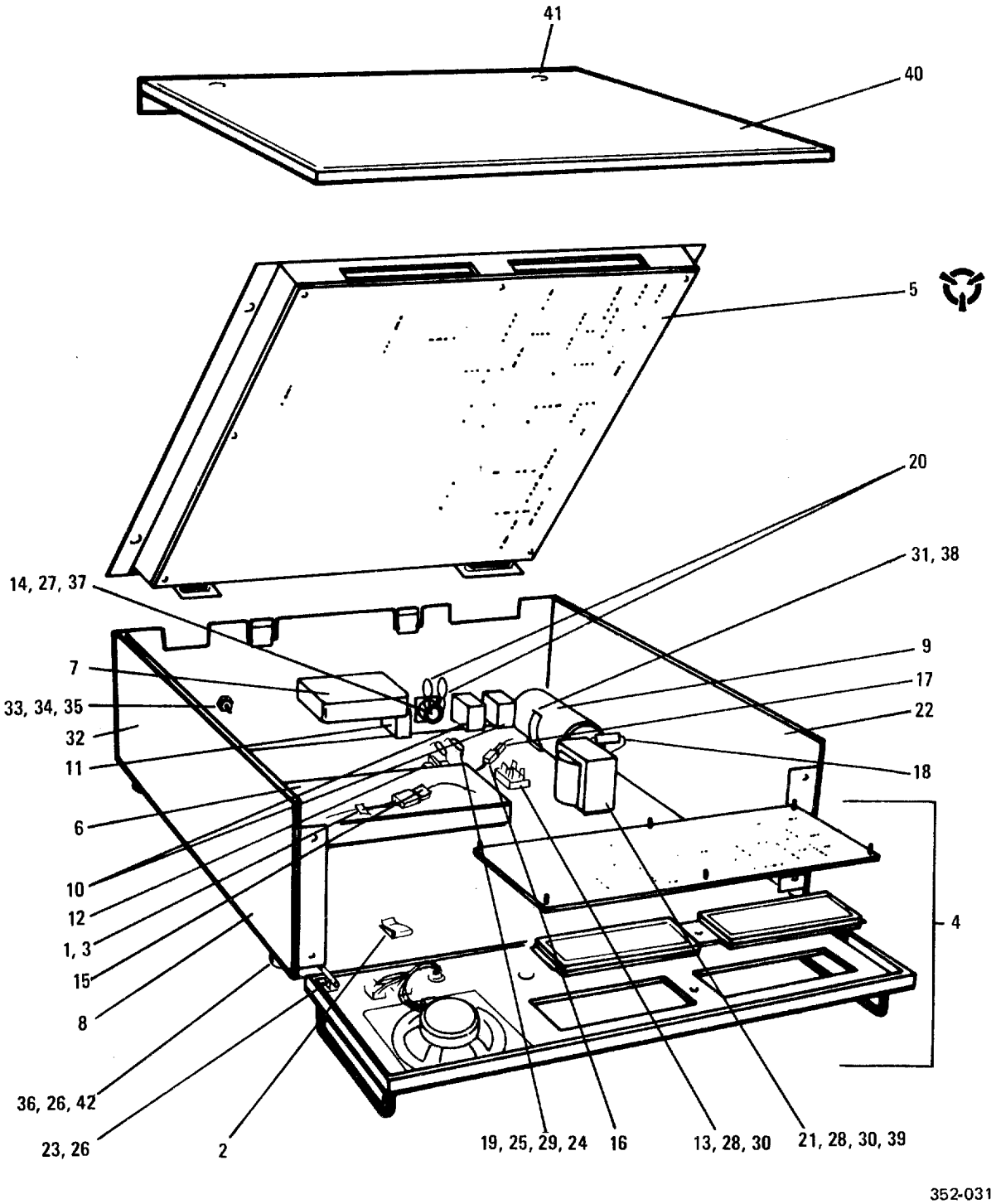

Figure 7-2. Remote Control Unit, C-11329/URC, Exploded View

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-2 -	10088-0100	14304	REMOTE CONTROL ASSY	1		PAODD
- 1	TY-23M	59730	. RETAINER	10		XB
- 2	DM53741-5059	71468	. CLAMP,CABLE	4		XB
- 3	TC-105A	59730	. BASE,RETAINER	2		XB
- 4	10085-2000	14304	. PANEL ASSY,A1	1		PAODD
- 5	10088-5000	14304	. CIRCUIT CARD ASSY,A2	1		PAODD
- 6	10085-1240	14304	. MULTIVOLT SPLY ASSY,A3	1		PAODD
- 7	10085-0570	14304	. CIRCUIT CARD ASSY,A4	1		PAODD
- 8	10088-0500	14304	. CHASSIS,ELEC,EQPT	1		XB
- 9	DCM462T100EC2B	00853	. CAP,FXD,ELCTLT	1		PAOZZ
- 10	W58XB1A6A-1	89265	. CIRCUIT BREAKER	2		PAOZZ
- 11	W58XB1A6A-5	89265	. CIRCUIT BREAKER	1		PAOZZ
- 12	70HFR20	81483	. SEMICOND DEVICE,DIO	1		PADZZ
- 13	MDA2501	04713	. SEMICOND DEVICE,DIO	1		PADZZ
- 14	MS3102R20-8P	96906	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 15	207377-1	00779	. CONNECTOR,RCPT,ELEC	3		PADZZ
- 16	54483-2	00779	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 17	53894-41	00779	. CONNECTOR,PLUG,ELEC	1		PADZZ
- 18	RCR42G122JS	81349	. RESISTOR,FXD,COMP	1		PADZZ
- 19	RE65GR562F	81349	. RESISTOR	2		PADZZ
- 20	V275LA40A	09214	. RESISTOR VOLTAGE	2		PADZZ
- 21	10087-5110	14304	. TRANSFORMER,RF	1		PADZZ
- 22	10088-0505	14304	. CHASSIS,ELEC,EQPT	1		XB
- 23	10085-5159	14304	. HINGE ASSY	2		XB
- 24	MS35649-244	96906	. NUT,PLAIN,HEX (AP)	1		XB
- 25	MS51959-4	96906	. SCREW,MACHINE (AP)	4		XB
- 26	MS24693-C26	96906	. SCREW,MACHINE (AP)	4		PAOZZ
- 27	MS51957-17	96906	. SCREW,MACHINE (AP)	4		PADZZ
- 28	MS15795-807	96906	. WASHER,FLAT (AP)	5		PAOZZ
- 29	MS35338-134	96906	. WASHER,LOCK (AP)	4		PAOZZ
- 30	H-6767	14304	. NUT,PLAIN,HEX (AP)	5		XB
- 31	4511-175-87-2N	86928	. RETAINER,CAPACITOR	1		XB
- 32	10088-0504	14304	. BRACKET,MTG	2		XB
- 33	MS51958-63	96906	. SCREW,MACHINE (AP)	1		PAOZZ
- 34	MS35338-138	96906	. WASHER,LOCK (AP)	1		PAOZZ
- 35	MS15795-808	96906	. WASHER,FLAT (AP)	2		PAOZZ
- 36	101-BB-1029	11897	. BUMPER,RUBBER	4		XB
- 37	H-6769	14304	. NUT,PLAIN,HEX (AP)	3		PADZZ
- 38	M24243/5-B402	81349	. RIVET,BLIND	2		XB
- 39	10088-0072	14304	. LABEL	1		PADZZ
- 40	10088-0105	14304	. COVER	1		PADZZ
- 41	82-32-101-20	94222	. STUD TURNLOCK FAST	2		PAOZZ
- 42	H-6768	96906	. NUT,CLINCH (AP)	4		PAOZZ

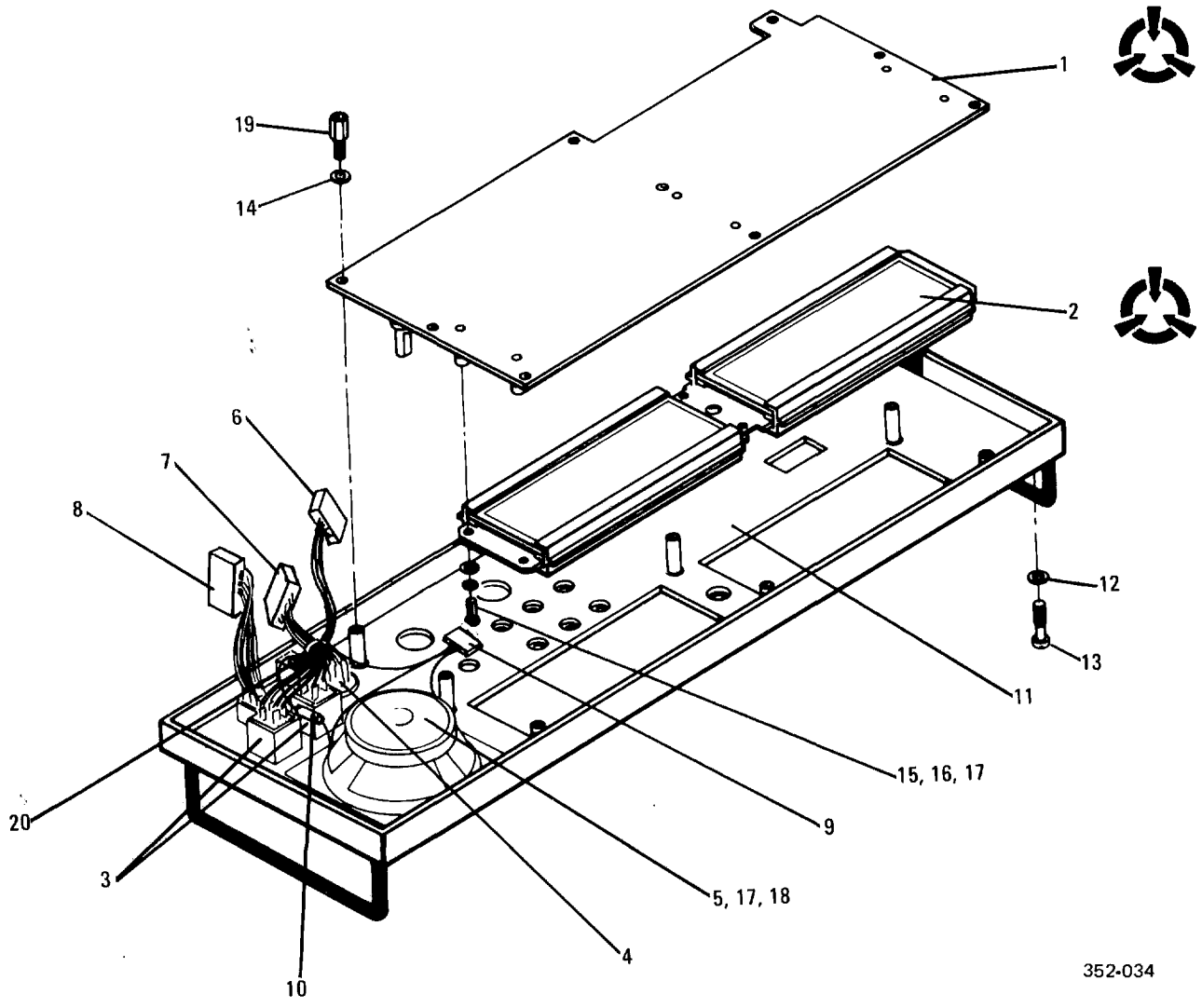

Figure 7-3. Front Panel Assy, A1

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-3 -	10085-2000	14304	PANEL ASSY,A1	1		PAODD
- 1	10085-2100	14304	. CIRCUIT CARD ASSY,A1A1	1		PAODD
- 2	10085-2110	14304	. DISPLAY ASSY,A1A2	1		PAODD
- 3	113	82389	. CONNECTOR,RCPT,ELEC	2		PADZZ
- 4	GC283	25330	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 5	82-8666	74199	. SPEAKER	1		PAOZZ
- 6	22-01-3057	27264	. CONNECTOR,PLUG,ELEC	1		PADZZ
- 7	22-01-3087	27264	. CONNECTOR,PLUG,ELEC	1		PADZZ
- 8	207376-1	00779	. CONNECTOR,PLUG,ELEC	1		PADZZ
- 9	22-01-3037	27264	. CONNECTOR,PLUG,ELEC	1		PADZZ
- 10	RN55D4751F	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 11	10085-2019	14304	. PANEL	1		XB
- 12	10087-2011	14304	. WASHER,FLAT (AP)	4		PAOZZ
- 13	10087-2012	14304	. SCREW,MACHINE (AP)	4		PAOZZ
- 14	MS35333-70	96906	. WASHER,LOCK (AP)	9		PADZZ
- 15	MS51957-14	96906	. SCREW,MACHINE (AP)	7		PADZZ
- 16	MS35338-135	96906	. WASHER,SPLIT (AP)	7		PADZZ
- 17	MS15795-803	96906	. WASHER,FLAT (AP)	6		PADZZ
- 18	H-6768	14304	. NUT,CLINCH (AP)	4		XB
- 19	9725-SS-0440-7	06540	. POST ELEC MECH	9		PAOZZ
- 20	TC-105A	59730	. BASE	1		XB

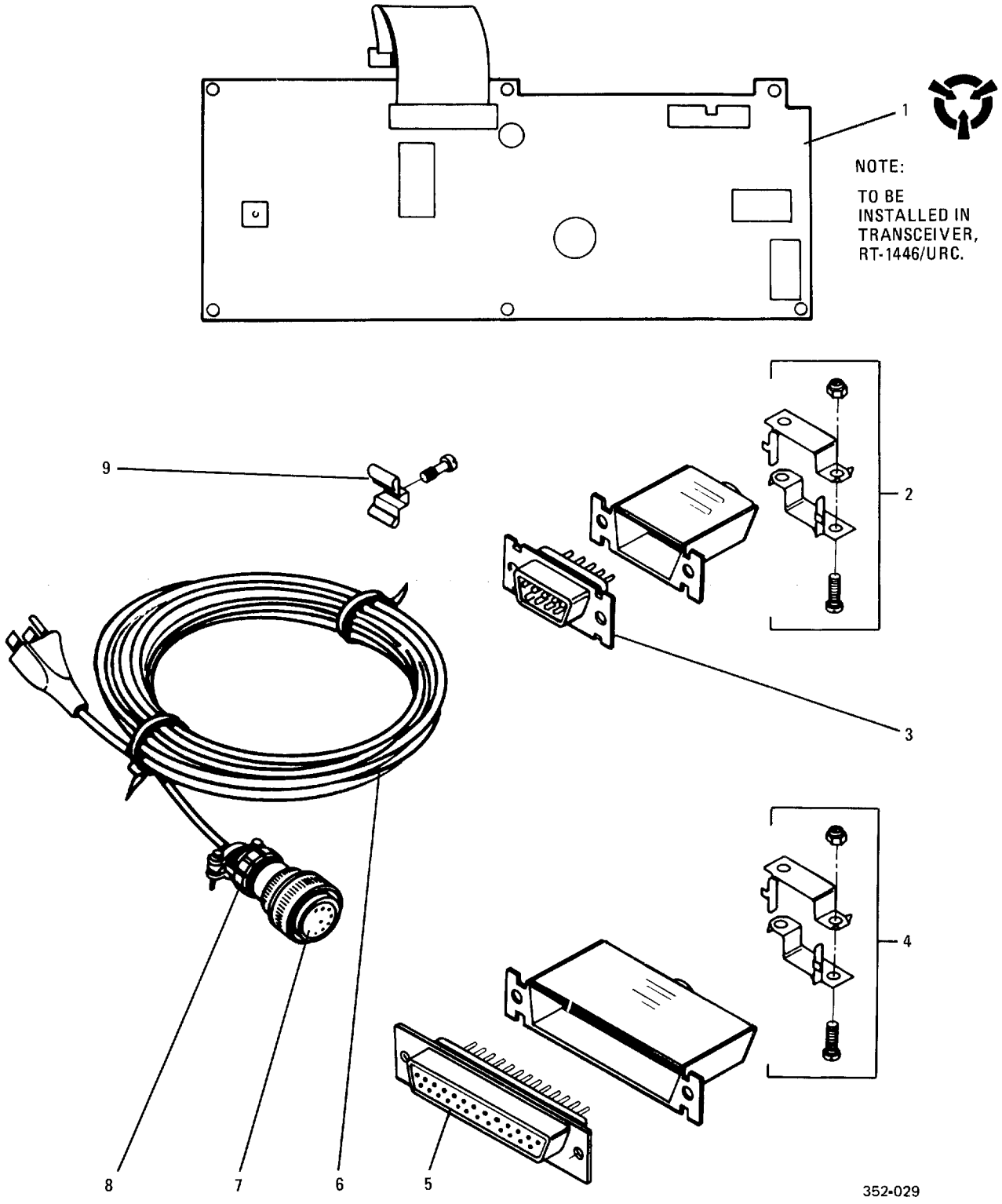

Figure 7-4. Installation Kit for the Remote Control Unit

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-4 -	10088-0060	14304	INSTALLATION KIT	1		XB
- 1	10088-6000	14304	. CIRCUIT CARD ASSY, 1A1A19	1		PAODD
- 2	DE24657	71468	. SHIELD ELECTRICAL	1		PAOZZ
- 3	M24308/1-1	81349	. CONNECTOR,RCPT,ELEC	1		PAOZZ
- 4	DB24659-2	71468	. SHIELD ELECTRICAL	2		PAOZZ
- 5	M24308/1-3	81349	. CONNECTOR,RCPT,ELEC	2		PAOZZ
- 6	10085-0065	14304	. CABLE ASSY,RF	1		XB
- 7	MS3106A20-8S	96906	. CONNECTOR	1		PAOZZ
- 8	M85049/41-12A	81349	. ADAPTER	1		PAOZZ
- 9	588D205-12	94033	. SCREW LOCK ELECTRIC	6		PAOZZ

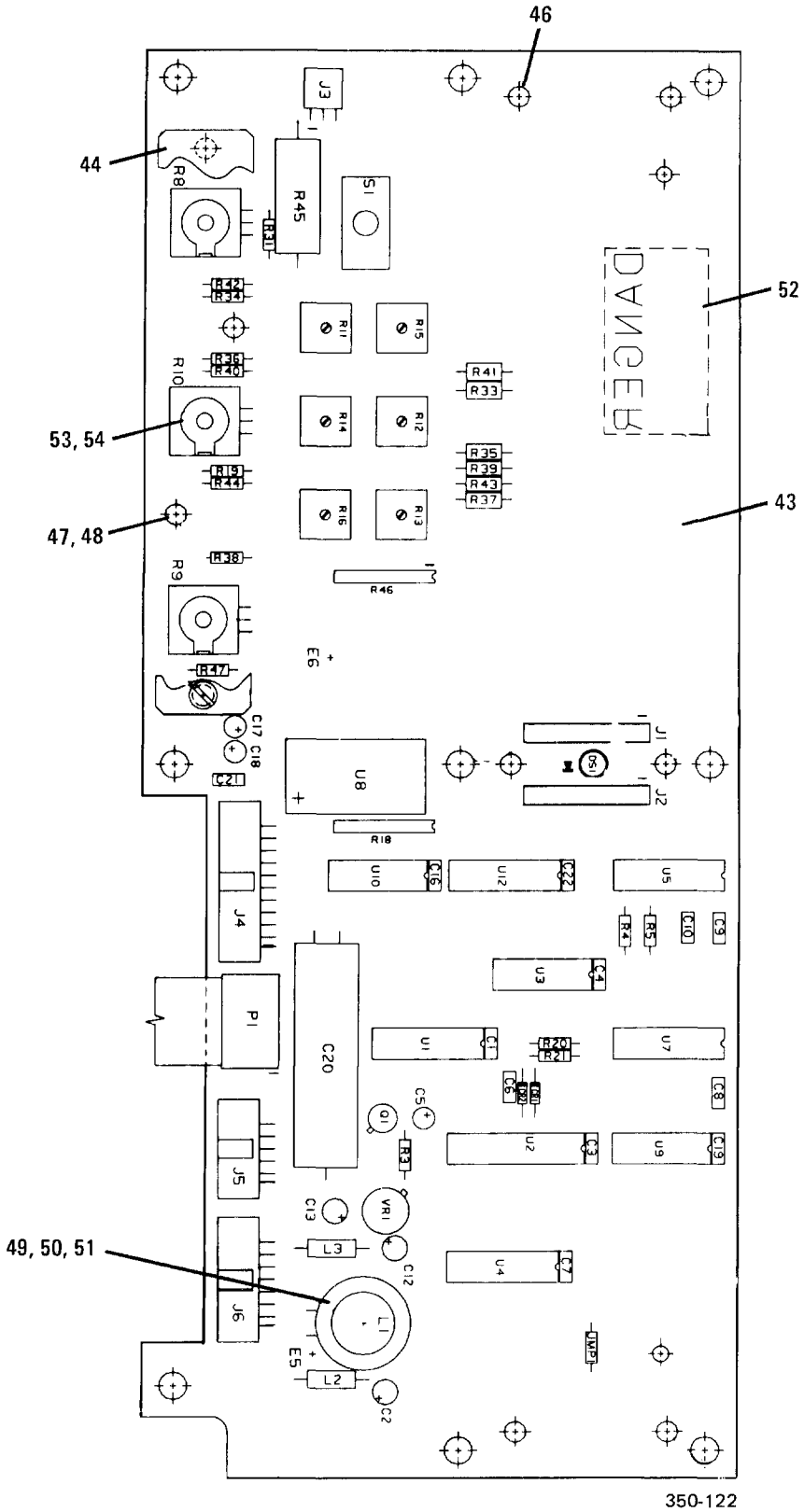

Figure 7-5. Front Panel PWB Assy, A1A1

NOTE

To find index numbers for circuit board components, use the reference designator index at the end of this chapter. The complete reference designator for a circuit board component consists of "1," followed by the assembly designator (A1, A2, etc.), then the reference designator on the illustration. For example, the complete reference designator for R25 on the Front Panel PWB Assy is 1A1A1 R25.

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-5 -	10085-2100	14304	CIRCUIT CARD ASSY,A1A1	1		PAODD
- 1	MD015E104MAA	04222	. CAPACITOR,FXD,CER	12		PADZZ
- 2	T392B106M010AS	31433	. CAP,FXD,ELCTLT	1		PADZZ
- 3	199D225X9025BG2	56289	. CAP,FXD,ELCTLT	1		PADZZ
- 4	TAPF10M25	31433	. CAP,FXD,ELCTLT	2		PADZZ
- 5	T392B335M025AS	31433	. CAP,FXD,ELCTLT	2		PADZZ
- 6	672D477H025DS5J	56289	. CAPACITOR,FXD,ALUM	1		PADZZ
- 7	JAN1N4454	81349	. SEMICOND DEVICE,DIO	2		PADZZ
- 8	5082-4655	01295	. LED	1		PADZZ
- 9	87334-3	00779	. CONNECTOR,RCPT,ELEC	2		PADZZ
- 10	22-12-2034	27264	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 11	1251-8273	28480	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 12	609-1007	15912	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 13	1251-8274	28480	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 14	MP-1142	14304	. JUMPER,ELEC	8		PADZZ
- 15	10085-2144	14304	. COIL,RF	1		PADZZ
- 16	MS14046-6	96906	. COIL,RF	1		PADZZ
- 17	MS90538-20	96906	. COIL,RF	1		PADZZ
- 18	10085-2113	14304	. CABLE ASSY,RF	1		PADZZ
- 19	JAN2N2222A	81349	. TRANSISTOR	1		PADZZ
- 20	CF07-104J	78488	. RESISTOR,FXD,COMP	3		PADZZ
- 21	CF07-103J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 22	CF07-154J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 23	10085-2141	14304	. RESISTOR,VARIABLE	1		PADZZ
- 24	10085-2143	14304	. RESISTOR,VARIABLE	1		PADZZ
- 25	10085-2142	14304	. RESISTOR,VARIABLE	1		PADZZ
- 26	3386F-1-502	32997	. RESISTOR,VARIABLE	6		PADZZ
- 27	4308R-101-472	32997	. RESISTOR,NETWORK	1		PADZZ
- 28	CF07-101J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 29	RW74U6R49F	81349	. RESISTOR,FXD,WW	1		PADZZ
- 30	4308R-101-102	32997	. RESISTOR,NETWORK	1		PADZZ
- 31	7101SDV70QE	95146	. SWITCH,TOGGLE	1		PADZZ
- 32	SN54LS138J	01295	. MICROCIRCUIT	1		PADZZ
- 33	804991-1	96214	. MICROCIRCUIT	1		PADZZ
- 34	SN54LS00J	01295	. MICROCIRCUIT	1		PADZZ
- 35	M38510/30608BEB	81349	. MICROCIRCUIT	1		PADZZ
- 36	7901401EB	14933	. MICROCIRCUIT	1		PADZZ
- 37	SN54LS367AJ	01295	. MICROCIRCUIT	1		PADZZ
- 38	E312-E0001	63312	. MICROCIRCUIT	1		PADZZ
- 39	SN54LS74AJ	01295	. MICROCIRCUIT	1		PADZZ
- 40	DM5416J	27014	. MICROCIRCUIT	1		PADZZ
- 41	CD4094BF	02735	. MICROCIRCUIT	1		PADZZ
- 42	UA78M12HM	07263	. MICROCIRCUIT	1		PADZZ
- 43	10085-2109	14304	. CIRCUIT CARD	1		XA
- 44	10085-2105	14304	. BRACKET,ANGLE	1		XB

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
- 45	1010M	60963	. SPACER	1		XB
- 46	18097B-B0440-14	46384	. SPACER	10		XB
- 47	MS35338-135	96906	. WASHER,SPLIT (AP)	4		PADZZ
- 48	MS51957-14	96906	. SCREW,MACHINE (AP)	4		PADZZ
- 49	010440B062	13764	. SCREW,MACHINE,NYLON	1		PAOZZ
- 50	2813-03-16	80045	. NUT,PLAIN,HEX (AP)	1		PAOZZ
- 51	2261-N116	06540	. WASHER,FLAT,NYLON	2		PAOZZ
- 52	MP-0745	14304	. LABEL	1		MDO
- 53	H-0963	14304	. NUT,PLAIN,HEX (AP)	3		XB
- 54	MS35333-76	96906	. WASHER LOCK	3		PAOZZ

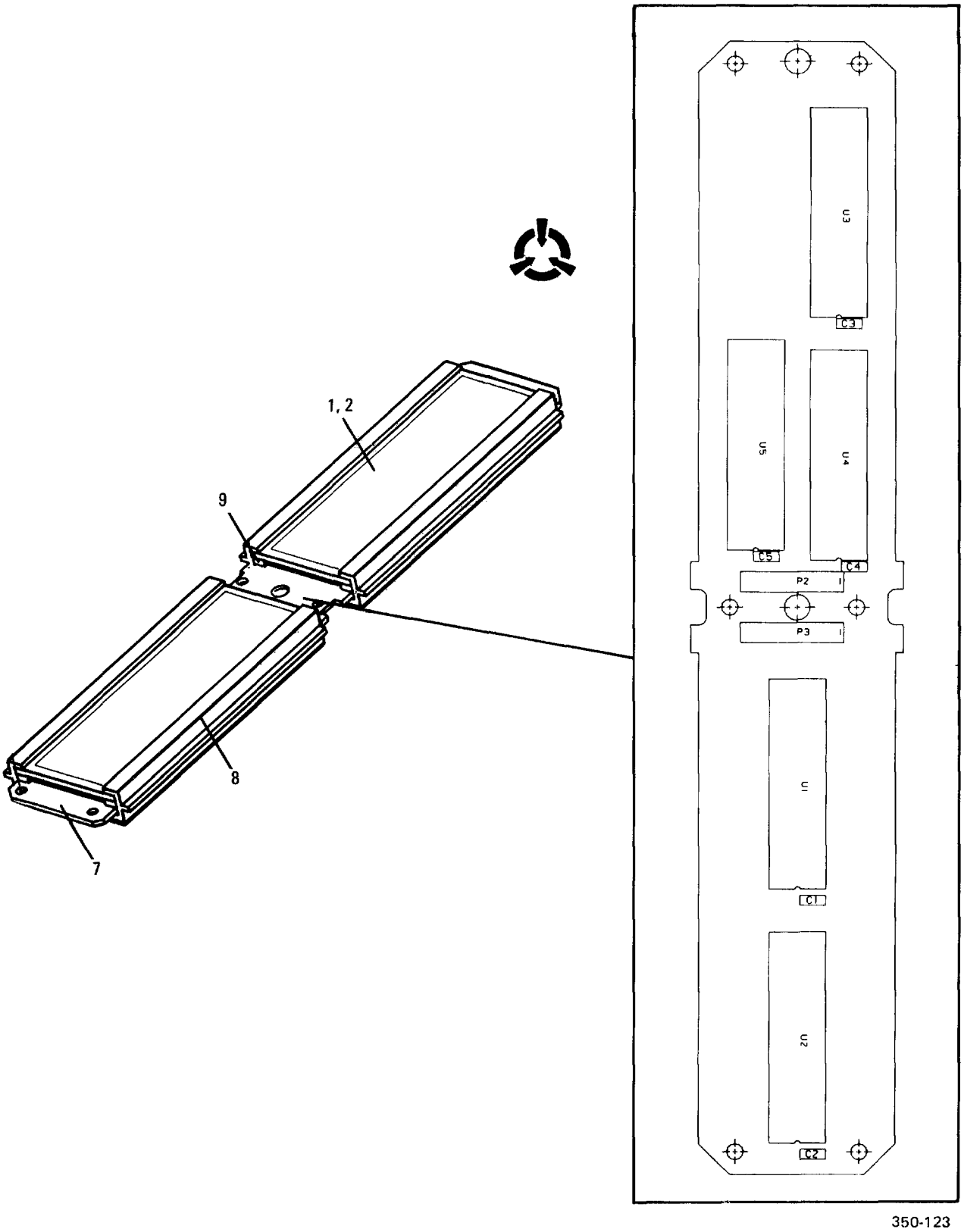

Figure 7-6. Display Assy, A1A2

NOTE

To find index numbers for circuit board components, use the reference designator index at the end of this chapter. The complete reference designator for a circuit board component consists of "1," followed by the assembly designator (A1, A2, etc.), then the reference designator on the illustration. For example, the complete reference designator for R25 on the Front Panel PWB Assy is 1A1A1 R25.

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-6 -	10085-2110	14304	DISPLAY ASSY,A1A2	1		PAODD
- 1	0736-7232	32890	. LED	2		PADZZ
- 2	429E3F99KGZ	09214	. DISPLAY	1		PADZZ
- 3	10085-2120	14304	. CIRCUIT CARD ASSY	1		PAOLD
- 4	MD015E104MAA	04222	. CAPACITOR,FXD,CER	5		PADZZ
- 5	65516-110	22526	. CONTACT ASSY	2		PADZZ
- 6	HLCD0438AY	61587	. MICROCIRCUIT	5		PADZZ
- 7	10085-2129	14304	. CIRCUIT CARD	1		XA
- 8	10085-2112	14304	. BRACKET,RETAINER	2		XB
- 9	10085-5136	14304	. CONNECTOR,RCPT,ELEC	4		PADZZ

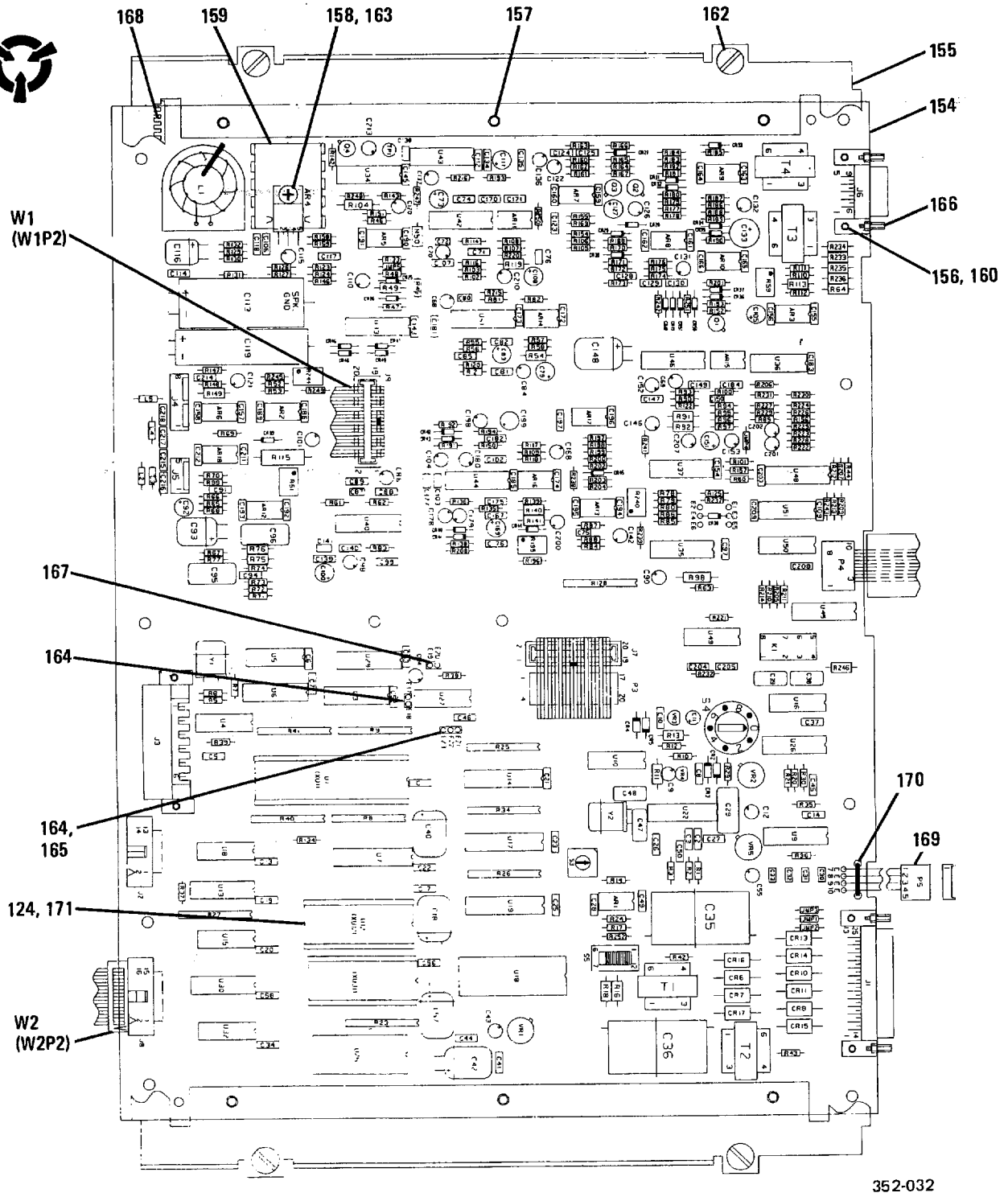

Figure 7-7. Audio /Microprocessor PWB Assy, A2

NOTE

To find index numbers for circuit board components, use the reference designator index at the end of this chapter. The complete reference designator for a circuit board component consists of "1," followed by the assembly designator (A1, A2, etc.), then the reference designator on the illustration. For example, the complete reference designator for R25 on the Front Panel PWB Assy is 1A1A1 R25.

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-7 -	10088-5000	14304	CIRCUIT CARD ASSY,A2	1		PAODD
- 1	MC1558U	04713	. MICROCIRCUIT	15		PADZZ
- 2	TDA2002H	04713	. MICROCIRCUIT	1		PADZZ
- 3	TL071MJG	01295	. MICROCIRCUIT	2		PADZZ
- 4	CK06BX104K	81349	. CAPACITOR,FXD,CER	83		PADZZ
- 5	T392B335M025AS	31433	. CAP,FXD,ELCTLT	27		PADZZ
- 6	T392F157M010AS	31433	. CAP,FXD,ELCTLT	4		PADZZ
- 7	CK06BX103K	81349	. CAPACITOR,FXD,CER	7		PADZZ
- 8	CM06FD152J03	81349	. CAPACITOR,FXD,MICA	1		PADZZ
- 9	CK05BX470K	81349	. CAPACITOR,FXD,CER	5		PADZZ
- 10	7FR2052B	54904	. CAPACITOR,FXD,MYLAR	2		PADZZ
- 11	CM05FD201G03	81349	. CAPACITOR,FXD,MICA	2		PADZZ
- 12	T392B155M035AS	31433	. CAP,FXD,ELCTLT	9		PADZZ
- 13	CM05ED220J03	81349	. CAPACITOR,FXD,MICA	2		PADZZ
- 14	M39014/02-1356	81349	. CAPACITOR FXD CER	10		PADZZ
- 15	M39014/01-1345	81349	. CAPACITOR,FXD,CER	7		PADZZ
- 16	T392C106M025AS	31433	. CAP,FXD,ELCTLT	14		PADZZ
- 17	M39014/01-1341	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 18	CK05BX221K	81349	. CAPACITOR,FXD,CER	7		PADZZ
- 19	CK06BX224K	81349	. CAPACITOR FXD CER	10		PADZZ
- 20	CK06BX474K	81349	. CAPACITOR,FXD,CER	9		PADZZ
- 21	M39014/02-1338	81349	. CAPACITOR,FXD,CER	5		PADZZ
- 22	CMR06F362G0DR	81349	. CAPACITOR,FXD,MICA	1		PADZZ
- 23	CMR06F182G0DR	81349	. CAPACITOR,FXD,MICA	1		PADZZ
- 24	672D128H025FV5J	56289	. CAP,FXD,ELCTLT	1		PADZZ
- 25	T392F157M016AS	31433	. CAP,FXD,ELCTLT	1		PADZZ
- 26	M39014/02-1354	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 27	672D477H025DS5J	56289	. CAP,FXD,ELCTLT	1		PADZZ
- 28	M39014/02-1342	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 29	CX02N156K	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 30	T392F686M025AS	31433	. CAP,FXD,ELCTLT	1		PADZZ
- 31	M39014/01-1330	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 32	M39014/02-1326	81349	. CAPACITOR FXD CERM	1		PADZZ
- 33	JAN1N3611	81349	. SEMICOND DEVICE,DIO	4		PADZZ
- 34	JAN1N4454	81349	. SEMICOND DEVICE,DIO	26		PADZZ
- 35	JAN1N750A	81349	. SEMICOND DEVICE,DIO	2		PADZZ
- 36	117-DBE-25PA	02660	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 37	609-1407	59730	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 38	207378-3	00779	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 39	22-11-2082	27264	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 40	22-11-2052	27264	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 41	10088-7021	14304	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 42	1251-6823	28480	. CONNECTOR,RCPT,ELEC	2		PADZZ
- 43	609-1607	15912	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 44	609-2027	15912	. CONNECTOR,RCPT,ELEC	2		PADZZ

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
- 45	MP-1142	14304	. CONTACT ELECTRICAL	4		PADZZ
- 46	K-0118	14304	. RELAY	1		PADZZ
- 47	10085-5212	14304	. COIL,RF	1		PADZZ
- 48	MS75085-7	96906	. COIL RF	4		PADZZ
- 49	10085-0337	14304	. CONNECTOR,PLUG,ELEC	1		PADZZ
- 50	22-01-3057	27264	. CONNECTOR,PLUG,ELEC	1		PADZZ
- 51	JAN2N2222A	81349	. TRANSISTOR	1		PADZZ
- 52	JAN2N2907A	81349	. TRANSISTOR	1		PADZZ
- 53	JAN2N4091	81349	. TRANSISTOR	2		PADZZ
- 54	CF07-103J	78488	. RESISTOR,FXD,COMP	53		PADZZ
- 55	CF07-223J	78488	. RESISTOR,FXD,COMP	6		PADZZ
- 56	CF07-681J	78488	. RESISTOR,FXD,COMP	3		PADZZ
- 57	4310R-101-103	32997	. RESISTOR NETWORK	10		PADZZ
- 58	RN55D6040F	81349	. RESISTOR,FXD,FILM	8		PADZZ
- 59	CF07-203J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 60	CF07-102J	78488	. RESISTOR,FXD,COMP	22		PADZZ
- 61	CF07-473J	78488	. RESISTOR,FXD,COMP	5		PADZZ
- 62	CF07-475J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 63	CF07-151J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 64	CF07-104J	78488	. RESISTOR,FXD,COMP	24		PADZZ
- 65	CF07-472J	78488	. RESISTOR,FXD,COMP	6		PADZZ
- 66	CF07-123J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 67	RNC55K1002FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 68	RNC55K1332FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 69	RJR24FW104P	81349	. RESISTOR,VARIABLE	3		PADZZ
- 70	CF07-333J	78488	. RESISTOR,FXD,COMP	9		PADZZ
- 71	CF07-224J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 72	3299W-1-104	57921	. RESISTOR,VARIABLE	3		PADZZ
- 73	CF07-471J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 74	CF07-563J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 75	RNC55K5112FS	81349	. RESISTOR,FXD,FILM	2		PADZZ
- 76	RN55D5112F	81349	. RESISTOR,FXD,FILM	2		PADZZ
- 77	CF07-273J	78488	. RESISTOR,FXD,COMP	4		PADZZ
- 78	CF07-823J	78488	. RESISTOR,FXD,COMP	5		PADZZ
- 79	CF07-393J	78488	. RESISTOR,FXD,COMP	7		PADZZ
- 80	CF07-244J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 81	RNC55K4321FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 82	RNC55K2004FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 83	CF07-4R7J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 84	CF07-153J	78488	. RESISTOR,FXD,COMP	3		PADZZ
- 85	CF07-101J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 86	CF07-623J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 87	RCR32G271JS	81349	. RESISTOR,FXD,COMP	1		PADZZ
- 88	CF07-183J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 89	CF07-392J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 90	CF07-822J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 91	CF07-272J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 92	CF07-2R7J	78488	. RESISTOR,FXD,COMP	3		PADZZ
- 93	CF07-821J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 94	CF07-105J	78488	. RESISTOR,FXD,COMP	3		PADZZ
- 95	RNC55K2432FS	81349	. RESISTOR,FXD,FILM	1		PADZZ

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
- 96	RNC55K3010FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 97	CF07-184J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 98	CF07-222J	78488	. RESISTOR,FXD,COMP	7		PADZZ
- 99	CF07-124J	78488	. RESISTOR,FXD,COMP	1		PADZZ
-100	CF07-334J	78488	. RESISTOR,FXD,COMP	3		PADZZ
-101	CF07-561J	78488	. RESISTOR,FXD,COMP	2		PADZZ
-102	CF07-270J	78488	. RESISTOR,FXD,COMP	1		PADZZ
-103	CF07-152J	78488	. RESISTOR,FXD,COMP	1		PADZZ
-104	3299W-1-504	57921	. RESISTOR,VARIABLE	2		PADZZ
-105	CF07-122J	78488	. RESISTOR,FXD,COMP	1		PADZZ
-106	RNC55K1151FS	81349	. RESISTOR,FXD,FILM	2		PADZZ
-107	RNC55K4320FS	81349	. RESISTOR,FXD,FILM	2		PADZZ
-108	RN55D4320F	81349	. RESISTOR,FXD,FILM	2		PADZZ
-109	RN55D1151F	81349	. RESISTOR,FXD,FILM	2		PADZZ
-110	DRD-10C	95146	. SWITCH,ROTARY	1		PADZZ
-111	1-435097-1	00779	. SWITCH,ROTARY	1		PADZZ
-112	MSS-4200	95146	. SWITCH,TOGGLE	1		PADZZ
-113	TY-304P	04386	. TRANSFORMER,RF	4		PADZZ
-114	105-0858-001	74970	. JACK,TIP	1		PADZZ
-115	TD8031AH	34649	. MICROCIRCUIT	1		PADZZ
-116	SN54LS165J	01295	. MICROCIRCUIT	1		PADZZ
-117	SN54LS04J	01295	. MICROCIRCUIT	1		PADZZ
-118	SN54LS74AJ	01295	. MICROCIRCUIT	1		PADZZ
-119	7705801EB	14933	. MICROCIRCUIT	2		PADZZ
-120	SN54LS373J	01295	. MICROCIRCUIT	3		PADZZ
-121	SN54LS08J	01295	. MICROCIRCUIT	2		PADZZ
-122	AM26LS30DM	34335	. MICROCIRCUIT	1		PADZZ
-123	DS1488J	27014	. MICROCIRCUIT	1		PADZZ
-124	10088-9540	14304	. EPROM,PROGRAMMED	1		PADZZ
-125	SN54LS138J	01295	. MICROCIRCUIT	2		PADZZ
-126	SN54LS02J	01295	. MICROCIRCUIT	2		PADZZ
-127	DS1489AJ	27014	. MICROCIRCUIT	1		PADZZ
-128	ADC0808CCJ	27014	. MICROCIRCUIT	1		PADZZ
-129	SN54LS245J	01295	. MICROCIRCUIT	1		PADZZ
-130	TMS99532NS	01295	. MICROCIRCUIT	1		PADZZ
-131	8103908JB	14933	. MICROCIRCUIT	1		PADZZ
-132	AM26LS33DM	34335	. MICROCIRCUIT	1		PADZZ
-133	CD4011BD/3	02735	. MICROCIRCUIT	1		PADZZ
-134	CD4040BF	02735	. MICROCIRCUIT	2		PADZZ
-135	CD4051BD/3	02735	. MICROCIRCUIT	1		PADZZ
-136	351-8434-010	13499	. MICROCIRCUIT	3		PADZZ
-137	CD4053BF	02735	. MICROCIRCUIT	3		PADZZ
-138	M38510/11201BCB	81349	. MICROCIRCUIT	1		PADZZ
-139	SA571F	18324	. MICROCIRCUIT	5		PADZZ
-140	ULQ-2003R	56289	. MICROCIRCUIT	1		PADZZ
-141	SA572F	18324	. MICROCIRCUIT	1		PADZZ
-142	CD4049BF	02735	. MICROCIRCUIT	1		PADZZ
-143	M38510/17204BCB	81349	. MICROCIRCUIT	1		PADZZ
-144	M38510/30501BCB	81349	. MICROCIRCUIT	1		PADZZ
-145	VA78M05HM	07263	. MICROCIRCUIT	1		PADZZ
-146	LM120H-5.0	27014	. MICROCIRCUIT	1		PADZZ

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
-147	UA78M12HM	07263	. MICROCIRCUIT	1		PADZZ
-148	10088-0304	14304	. CABLE ASSY	1		PAOZZ
-149	10088-0305	14304	. CABLE ASSY	1		PAOZZ
-150	540-AG11D	91506	. SOCKET,PLUG-IN	1		PADZZ
-151	528-AG11D	91506	. SOCKET PLUG IN ELEC	1		PADZZ
-152	MP150	22903	. CRYSTAL UNIT,QTZ	1		PADZZ
-153	FOXO432	61429	. CRYSTAL UNIT QTZ	1		PADZZ
-154	10088-5009	14304	. CIRCUIT CARD	1		XA
-155	10088-5015	14304	. BRACKET,ANGLE	1		XB
-156	M24243/1-B304	81349	. RIVET,BLIND	6		PADZZ
-157	M24243/1-B402	81349	. RIVET,BLIND	16		PADZZ
-158	H-6768	14304	. NUT,CLINCH (AP)	1		XB
-159	610PB	13103	. HEATSINK	1		XB
-160	5710-8-20	86928	. WASHER,FLAT (AP)	6		PADZZ
-161	MS15795-806	96906	. WASHER,FLAT (AP)	1		PADZZ
-162	82-32-101-20	94222	. WASHER SPLIT	4		PAOZZ
-163	MS51957-28	96906	. SCREW,MACHINE (AP)	1		PAOZZ
-164	65474-001	22526	. CONN PLUG ELECTRICA	2		PADZZ
-165	65499-103	22526	. JACK,TIP	1		PADZZ
-166	205817-1	00779	. SCREW LOCK	2		PADZZ
-167	65499-102	22526	. JACK,TIP	2		PADZZ
-168	MS21266-1N	96906	. GROMMET,NONMETALLIC	7		PADZZ
-169	08-56-0110	27264	. SOCKET	4		PADZZ
-170	MS3367-4-9	96906	. STRAP LINE SUPPORT	3		PADZZ
-171	TD271-28-4	34649	. EPROM,UNPROGRAMMED	1		PADZZ

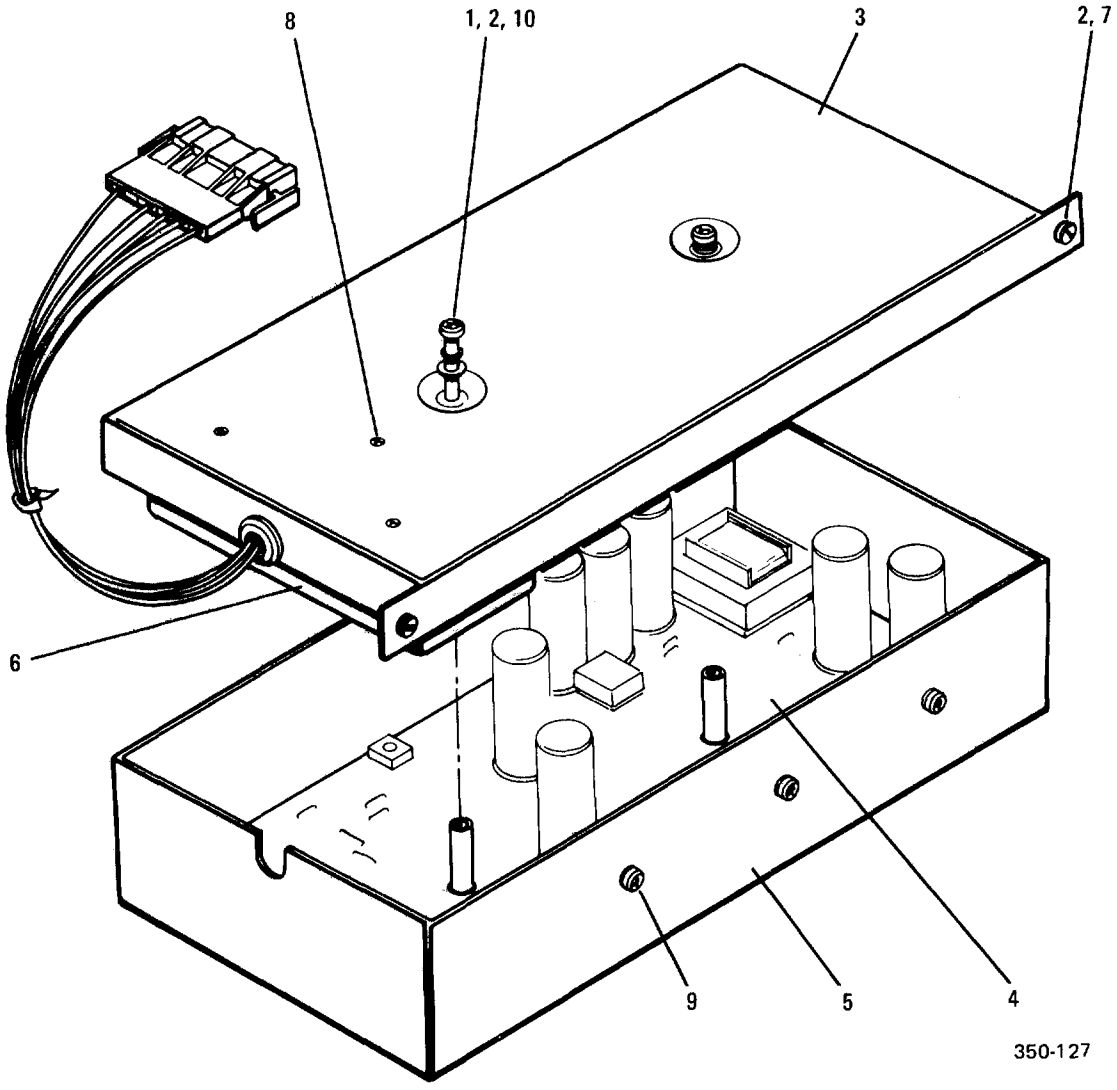

Figure 7-8. Multivoltage Supply Assy, A3

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-8 -	10085-1240	14304	MULTIVOLT SPLY ASSY,A3	1		PAOLD
- 1	MS15795-805	96906	. WASHER,FLAT (AP)	2		PADZZ
- 2	MS35338-136	96906	. WASHER,SPLIT (AP)	4		PADZZ
- 3	10085-1209	14304	. COVER	1		XB
- 4	10085-1260	14304	. CIRCUIT CARD ASSY	1		XA
- 5	10085-1247	14304	. CASE	1		XB
- 6	10085-1230	14304	. FILTER ASSY,RF	1		PADZZ
- 7	6232-SS-0632	06540	. SCREW EXT RELIEVED	2		PAOZZ
- 8	MS24693-C16	96906	. SCREW,MACHINE (AP)	3		PAOZZ
- 9	MS51957-28	96906	. SCREW,MACHINE (AP)	3		PADZZ
- 10	10085-5131	14304	. SCREW,MACHINE (AP)	2		PADZZ

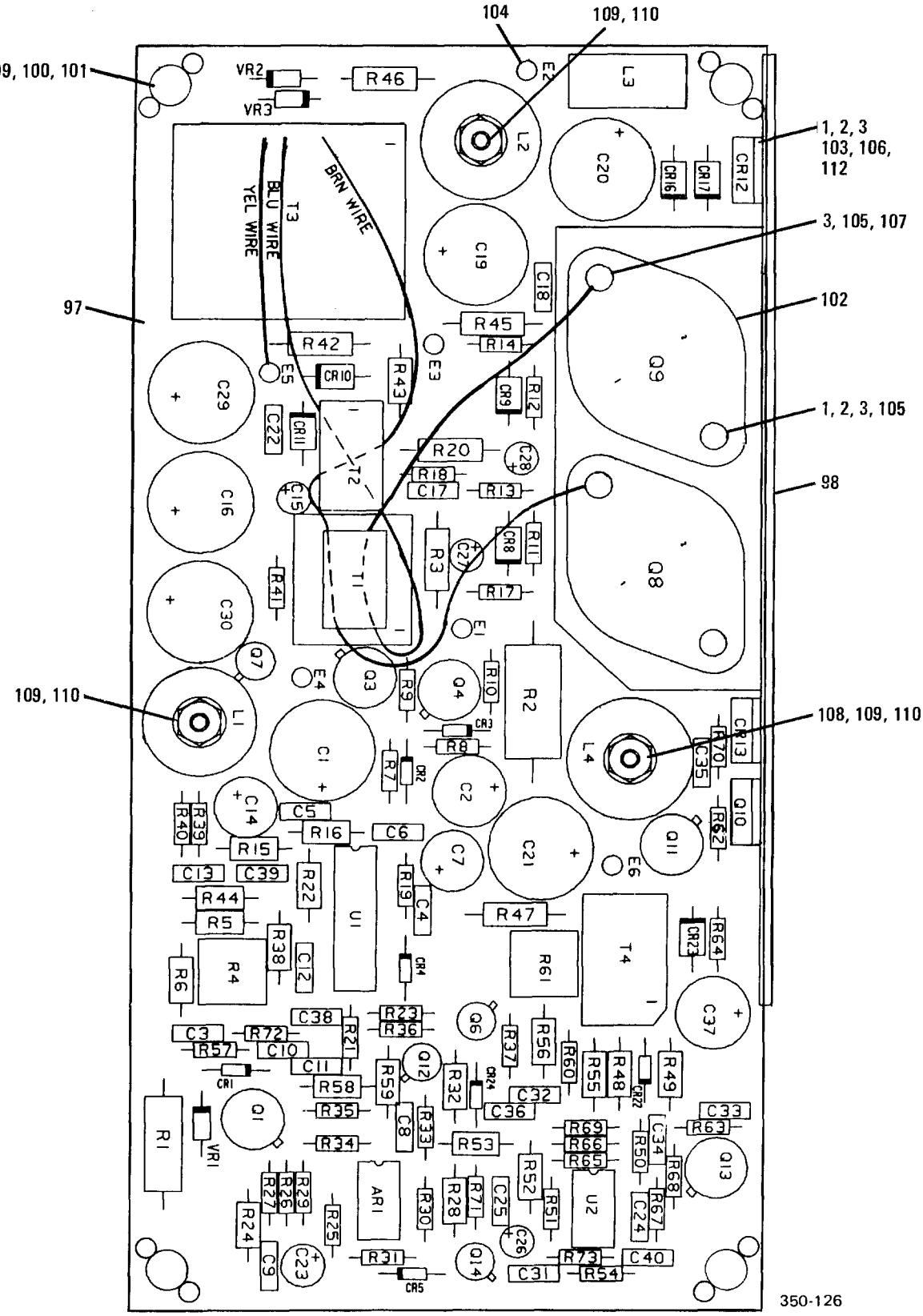

Figure 7-9. Multivoltage Supply PWB Assy, A3A1

NOTE

To find index numbers for circuit board components, use the reference designator index at the end of this chapter. The complete reference designator for a circuit board component consists of "1," followed by the assembly designator (A1, A2, etc.), then the reference designator on the illustration. For example, the complete reference designator for R25 on the Front Panel PWB Assy is 1A1A1 R25.

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-9 -	10085-1260	14304	CIRCUIT CARD ASSY,A3A1	1		XA
- 1	MS15795-803	96906	. WASHER,FLAT (AP)	5		PADZZ
- 2	MS35338-135	96906	. WASHER,SPLIT (AP)	9		PADZZ
- 3	MS35649-244	96906	. NUT,PLAIN,HEX (AP)	7		PADZZ
- 4	MC1558U	04713	. MICROCIRCUIT	1		PADZZ
- 5	672D337H040ET5	56289	. CAP,FXD,ELCTLT	6		PADZZ
- 6	801591-31	96214	. CAP,FXD,ELCTLT	1		PADZZ
- 7	M39014/02-1344	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 8	CK06BX104K	81349	. CAPACITOR,FXD,CER	6		PADZZ
- 9	0180-2827	28480	. CAP,FXD,ELCTLT	2		PADZZ
- 10	CK06BX103K	81349	. CAPACITOR,FXD,CER	4		PADZZ
- 11	CK05BX102K	81349	. CAPACITOR,FXD,CER	3		PADZZ
- 12	M39014/02-1340	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 13	CK06BX474K	81349	. CAPACITOR,FXD,CER	4		PADZZ
- 14	T392D226M025AS	31433	. CAP,FXD,ELCTLT	1		PADZZ
- 15	T392B335M025AS	31433	. CAP,FXD,ELCTLT	2		PADZZ
- 16	672D337H040ET50	56289	. CAP,FXD,ELCTLT	6		PADZZ
- 17	672D108H015ET5C	56289	. CAP,FXD,ELCTLT	1		PADZZ
- 18	M39014/02-1332	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 19	T392C106M025AS	31433	. CAP,FXD,ELCTLT	1		PADZZ
- 20	T392B155M035AS	31433	. CAP,FXD,ELCTLT	2		PADZZ
- 21	CK06BX223K	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 22	672D476H040CD5C	56289	. CAP,FXD,ELCTLT	2		PADZZ
- 23	CK06BX332K	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 24	CK06BX273K	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 25	M39014/02-1335	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 26	JAN1N3611	81349	. SEMICOND DEVICE,DIO	1		PADZZ
- 27	JAN1N4454	81349	. SEMICOND DEVICE,DIO	6		PADZZ
- 28	JAN1N5417	81349	. SEMICOND DEVICE,DIO	7		PADZZ
- 29	RUR-D820	18722	. SEMICOND DEVICE,DIO	1		PADZZ
- 30	VHE1402	27777	. SEMICOND DEVICE,DIO	1		PADZZ
- 31	L13-0002-470	14304	. COIL,RF	1		PADZZ
- 32	L13-0002-331	14304	. COIL,RF	1		PADZZ
- 33	10085-1228	14304	. COIL,RF	1		PADZZ
- 34	10085-1268	14304	. COIL,RF	1		PADZZ
- 35	JAN2N3439	81349	. TRANSISTOR	2		PADZZ
- 36	JAN2N2219A	81349	. TRANSISTOR	2		PADZZ
- 37	JAN2N2222A	81349	. TRANSISTOR	2		PADZZ
- 38	JAN2N6341	81349	. TRANSISTOR	2		PADZZ
- 39	JAN2N6338	81349	. TRANSISTOR	2		PADZZ
- 40	151-0625-00	80009	. TRANSISTOR	1		PADZZ
- 41	2N4236	80131	. TRANSISTOR	1		PADZZ
- 42	JAN2N2907A	81349	. TRANSISTOR	2		PADZZ
- 43	RCR32G102JS	81349	. RESISTOR,FXD,COMP	1		PADZZ
- 44	RCR42G221JS	81349	. RESISTOR,FXD,COMP	1		PADZZ

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
- 45	ERD50TJ100	54473	. RESISTOR,FXD,COMP	2		PADZZ
- 46	72PM2K	73138	. RESISTOR,VARIABLE	1		PADZZ
- 47	RNC55K1152FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 48	RN55K2491FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 49	CF07-182J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 50	CF07-471J	78488	. RESISTOR,FXD,COMP	4		PADZZ
- 51	CF07-220J	78488	. RESISTOR,FXD,XOMP	4		PADZZ
- 52	CF07-6R8J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 53	RN55D4991F	81349	. RESISTOR,FXD,FILM	2		PADZZ
- 54	CF07-2R7J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 55	CF07-104J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 56	CF07-333J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 57	RN55D2211F	81349	. RESISTOR,FXD,FILM	4		PADZZ
- 58	CF07-272J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 59	RNC55K1102FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 60	CF07-103J	78488	. RESISTOR,FXD,COMP	4		PADZZ
- 61	RN55D6811F	81349	. RESISTOR,FXD,FILM	3		PADZZ
- 62	RN55D1003F	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 63	RNC55K8061FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 64	RNC55K2003FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 65	RN55D3321F	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 66	CF07-681J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 67	CF07-102J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 68	CF07-100J	78488	. RESISTOR,FXD,COMP	3		PADZZ
- 69	RN55D1000F	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 70	CF07-101J	78488	. RESISTOR,FXD,COMP	4		PADZZ
- 71	RNC60K23R7FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 72	RNC55K2150FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 73	RN55D4750F	81349	. RESISTOR,FXD,COMP	1		PADZZ
- 74	ERD50TJ102	54473	. RESISTOR,FXD,COMP	1		PADZZ
- 75	RLR20C22R1FS	81349	. RESISTOR,FXD,COMP	1		PADZZ
- 76	ERD50TJ271	54473	. RESISTOR,FXD,COMP	1		PADZZ
- 77	RNC55K4640FS	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 78	RN55D8R25F	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 79	CF07-224J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 80	RN55D4990F	81349	. RESISTOR,FXD,FILM	1		PADZZ
- 81	CF07-222J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 82	3386B-1-501	32997	. RESISTOR,VARIABLE	1		PADZZ
- 83	CF07-221J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 84	CF07-682J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 85	CF07-472J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 86	CF07-332J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 87	CF07-473J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 88	10085-1224	14304	. TRANSFORMER,RF	1		PADZZ
- 89	51718	61735	. TRANSFORMER,RF	1		PADZZ
- 90	10085-1225	14304	. TRANSFORMER,RF	1		PADZZ
- 91	10085-1266	14304	. TRANSFORMER,RF	1		PADZZ
- 92	SG1524F	18324	. MICROCIRCUIT	1		PADZZ
- 93	SE5561FE	18324	. MICROCIRCUIT	1		PADZZ
- 94	1N4743A	81349	. SEMICOND DEVICE,DIO	1		PADZZ
- 95	JAN1N4463	81349	. SEMICOND DEVICE,DIO	2		PADZZ

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
- 96	1N4738A	80131	. SEMICOND DEVICE,DIO	2		PADZZ
- 97	10085-1269	14304	. CIRCUIT CARD	1		XA
- 98	10085-1245	14304	. HEATSINK	1		XB
- 99	6611-0135	14304	. RETAINER,SCREW	4		PADZZ
-100	10085-5156	14304	. BUSHING	4		PADZZ
-101	MS51957-17	96906	. SCREW,MACHINE (AP)	4		PADZZ
-102	43-03-4	13103	. INSULATOR PLATE	2		PADZZ
-103	SM-66-52-14	08289	. INSULATOR PLATE	3		PADZZ
-104	61134-1	00779	. TERMINAL QUICK DISC	6		PADZZ
-105	KFH-440-8	99256	. STUD,CLINCH	6		XB
-106	7721-7PPS	13103	. INSULATOR BUSHING	3		PADZZ
-107	MS77068-1	96906	. TERMINAL,LUG	2		PADZZ
-108	2261-N116	06540	. WASHER,FLAT,NYLON	1		XB
-109	010440B112	73734	. SCREW,MACHINE,NYLON	3		XB
-110	103101	73734	. NUT NONMETALIC	3		PADZZ
-111	61060-1	00779	. TERMINAL	1		PADZZ
-112	MS24693-C5	96906	. SCREW,MACHINE (AP)	3		PAOZZ

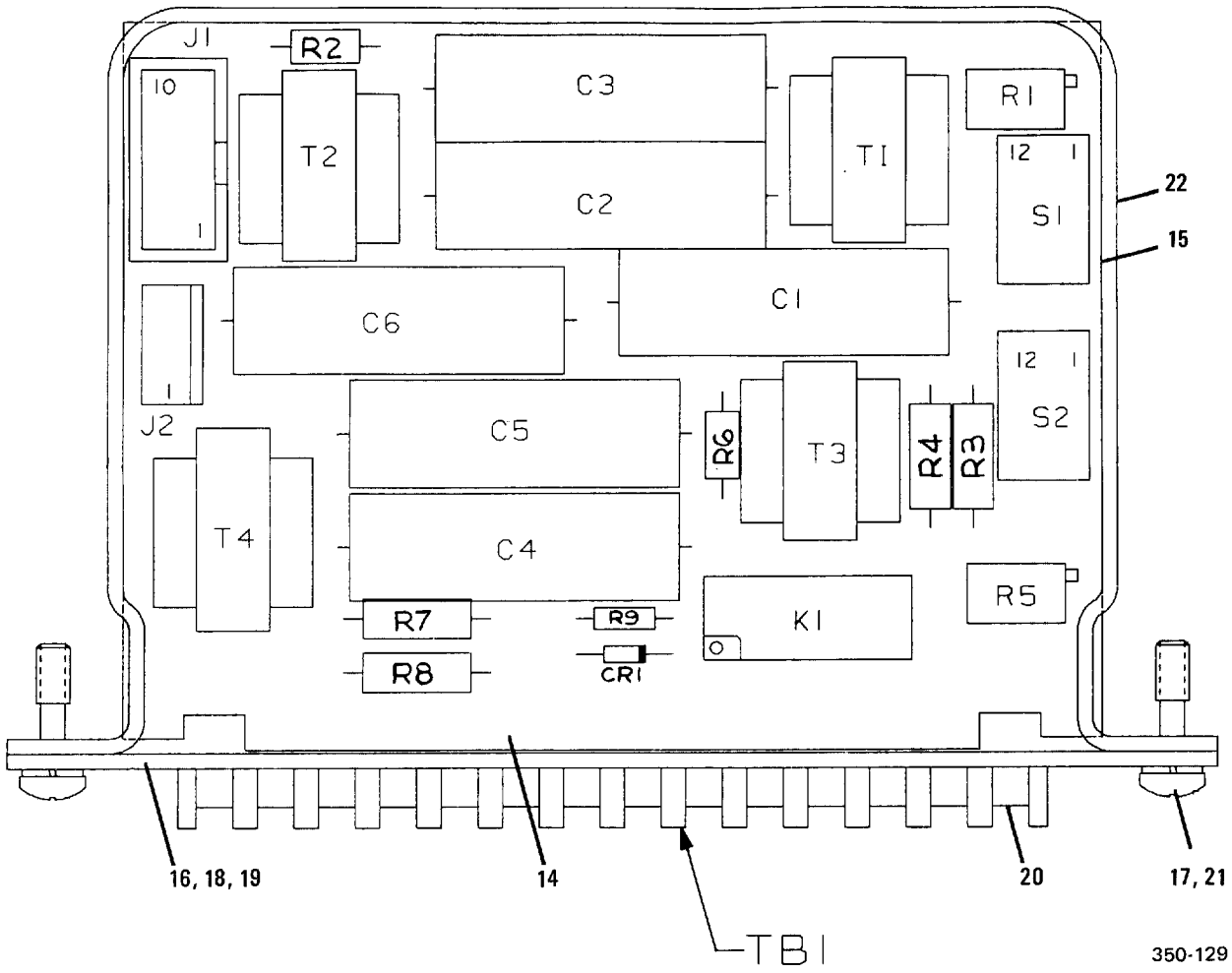

Figure 7-10. Audio Interface PWB Assy, A4

NOTE

To find index numbers for circuit board components, use the reference designator index at the end of this chapter. The complete reference designator for a circuit board component consists of "1," followed by the assembly designator (A1, A2, etc.), then the reference designator on the illustration. For example, the complete reference designator for R25 on the Front Panel PWB Assy is 1A1A1 R25.

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-10-	10085-0570	14304	CIRCUIT CARD ASSY,A4	1		PAODD
- 1	JAN1N4454	81349	. SEMICOND DEVICE,DIO	1		PADZZ
- 2	7FR2052B	54904	. CAPACITOR,FXD,MYLAR	6		PADZZ
- 3	609-1027	15912	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 4	22-11-2052	27264	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 5	K-0118	14304	. RELAY	1		PADZZ
- 6	68XR2K	73138	. RESISTOR,VARIABLE	2		PADZZ
- 7	RN55D6040F	81349	. RESISTOR,FXD,FILM	2		PADZZ
- 8	RNC60K3010FS	81349	. RESISTOR,FXD,FILM	4		PADZZ
- 9	RN60D3010F	81349	. RESISTOR,FXD,FILM	4		PADZZ
- 10	CF07-680J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 11	MSS-4200	95146	. SWITCH	2		PADZZ
- 12	T-2220	26667	. TRANSFORMER,RF	4		PADZZ
- 13	SEPX-12	94464	. TERMINAL,STRIP	1		XB
- 14	10085-0579	14304	. CIRCUIT CARD	1		XA
- 15	10085-0576	14304	. RETAINER	1		XB
- 16	10085-0577	14304	. CIRCUIT CARD	1		XA
- 17	10085-5131	14304	. SCREW,MACHINE (AP)	2		PADZZ
- 18	MS35338-134	96906	. WASHER,SPLIT (AP)	4		PADZZ
- 19	MS51957-2	96906	. SCREW,MACHINE (AP)	4		PAOZZ
- 20	MS51957-3	96906	. SCREW,MACHINE (AP)	2		PAOZZ
- 21	MS35338-136	96906	. WASHER,SPLIT (AP)	2		PADZZ
- 22	10085-0578	14304	. LABEL	1		MDO

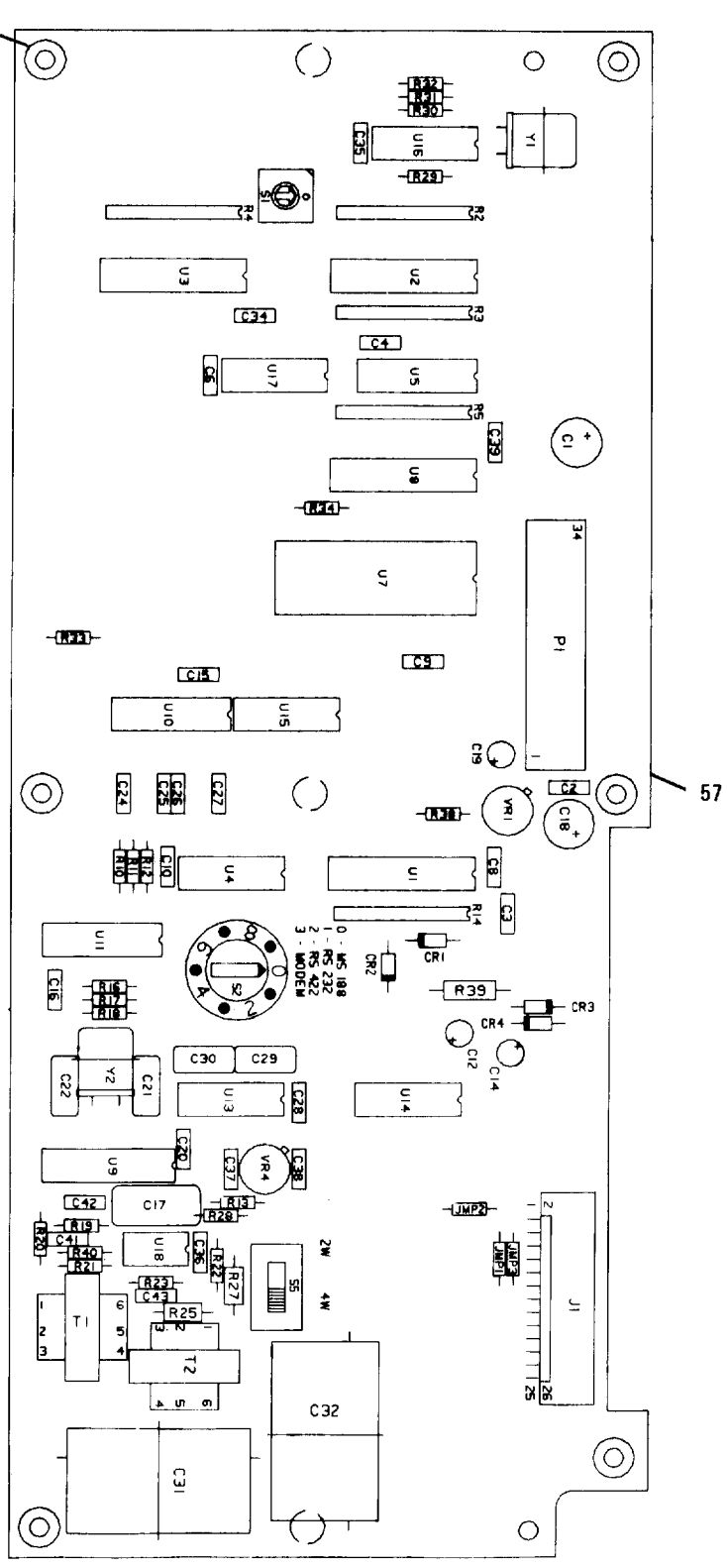

Figure 7-11. Remote Control Interface PWB Assy, A1A19

NOTE

To find index numbers for circuit board components, use the reference designator index at the end of this chapter. The complete reference designator for a circuit board component consists of "1," followed by the assembly designator (A1, A2, etc.), then the reference designator on the illustration. For example, the complete reference designator for R25 on the Front Panel PWB Assy is 1A1A1 R25.

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
7-11-	10088-6000	14304	CIRCUIT CARD ASSY, 1A1A19 (in Transceiver)	1		PAODD
- 1	T392F157K010AS	31433	. CAP,FXD,ELCTLT	1		PADZZ
- 2	M39014/02-1350	81349	. CAPACITOR,FXD,CER	20		PADZZ
- 3	CK06BX104K	81349	. CAPACITOR,FXD,CER	18		PADZZ
- 4	T392B155M035AS	31433	. CAP,FXD,ELCTLT	3		PADZZ
- 5	CMR06F152G0DR	81349	. CAPACITOR,FXD,MICA	1		PADZZ
- 6	T392B335M025AS	31433	. CAP,FXD,ELCTLT	1		PADZZ
- 7	CMR05E220T0DR	81349	. CAPACITOR,FXD,MICA	2		PADZZ
- 8	CM05ED220J03	81349	. CAPACITOR,FXD,MICA	2		PADZZ
- 9	M39014/01-1333	81349	. CAPACITOR,FXD,CER	4		PADZZ
- 10	CK05BX470K	81349	. CAPACITOR,FXD,CER	4		PADZZ
- 11	CMR05F201G0DR	81349	. CAPACITOR,FXD,MICA	2		PADZZ
- 12	CM05FD201G03	81349	. CAPACITOR,FXD,MICA	2		PADZZ
- 13	7FR2052B	54904	. CAPACITOR,FXD,MYLAR	2		PADZZ
- 14	M39014/02-1360	81349	. CAPACITOR,FXD,CER	1		PADZZ
- 15	CK06BX103K	81349	. CAPACITOR,FXD,CER	6		PADZZ
- 16	JAN1N3611	81349	. SEMICOND DEVICE,DIO	4		PADZZ
- 17	609-2607	59730	. CONNECTOR,RCPT,ELEC	1		PADZZ
- 18	MP-1142	14304	. CONTACT ELECTRICAL	3		XB
- 19	10088-6006	14304	. CABLE ASSY,RF	1		PADZZ
- 20	4310R-101-103	32997	. RESISTOR NETWORK	5		PADZZ
- 21	CF07-151J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 22	CF07-102J	78488	. RESISTOR,FXD,COMP	4		PADZZ
- 23	CF07-475J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 24	CF07-103J	78488	. RESISTOR,FXD,COMP	5		PADZZ
- 25	CF07-223J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 26	CF07-203J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 27	CF07-473J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 28	RNC55K6040FS	81349	. RESISTOR,FXD,FILM	2		PADZZ
- 29	RN55D6040F	81349	. RESISTOR,FXD,FILM	2		PADZZ
- 30	CF07-472J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 31	CF07-182J	78488	. RESISTOR,FXD,COMP	2		PADZZ
- 32	CF07-333J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 33	ERD50TJ101	54473	. RESISTOR,FXD,COMP	1		PADZZ
- 34	CF07-393J	78488	. RESISTOR,FXD,COMP	1		PADZZ
- 35	DRD-10C	95146	. SWITCH,ROTARY	1		PADZZ
- 36	1-435097-1	00779	. SWITCH,ROTARY	1		PADZZ
- 37	MSS-4200	95146	. SWITCH,TOGGLE	1		PADZZ
- 38	T2106	04386	. TRANSFORMER,RF	2		PADZZ
- 39	M38510/32502BRB	81349	. MICROCIRCUIT	1		PADZZ
- 40	SN54LS245J	01295	. MICROCIRCUIT	3		PADZZ
- 41	M38510/30003BCB	81349	. MICROCIRCUIT	2		PADZZ
- 42	M38510/30701BEB	81349	. MICROCIRCUIT	1		PADZZ
- 43	SCN2661AA1I28	01295	. MICROCIRCUIT	1		PADZZ

Figure & Index Number	Part Number	FSCM	Description 1 2 3 4 5 6 7	Units Per Assy	Usable On Code	SMR Code
- 44	TMS99532NS	01295	. MICROCIRCUIT	1		PADZZ
- 45	AM26LS30DM	34335	. MICROCIRCUIT	1		PADZZ
- 46	7802002EB	14933	. MICROCIRCUIT	1		PADZZ
- 47	DS1489AJ	27014	. MICROCIRCUIT	1		PADZZ
- 48	MC1488LDS	04713	. MICROCIRCUIT	1		PADZZ
- 49	M38510/30301BCB	81349	. MICROCIRCUIT	1		PADZZ
- 50	SN54LS04J	01295	. MICROCIRCUIT	1		PADZZ
- 51	M38510/31004BCB	81349	. MICROCIRCUIT	1		PADZZ
- 52	MC1558U	04713	. MICROCIRCUIT	1		PADZZ
- 53	M38510/11501BXC	81349	. MICROCIRCUIT	1		PADZZ
- 54	M38510/10703BXC	81349	. MICROCIRCUIT	1		PADZZ
- 55	MP042	75378	. CRYSTAL UNIT,QTZ	1		PADZZ
- 56	FOX0432	61429	. CRYSTAL UNIT QTZ	1		PADZZ
- 57	10088-6009	14304	. CIRCUIT CARD	1		XA
- 58	MS35338-135	96906	. WASHER,LOCK (AP)	6		PAOZZ
- 59	MS51957-17	96906	. SCREW,MACHINE (AP)	6		PAOZZ
- 60	6611-0135	14304	. RETAINER	6		XB
- 61	10085-5156	14304	. SPACER	6		XB

Section III. NUMERICAL INDEX

Part Number	Fig No.	Index No.	Qty per End Item
ADC0808CCJ	7-7	128	1
AM26LS30DM	7-11	45	2
AM26LS33DM	7-7	132	3
CD4011BD/3	7-7	133	1
CD4040BF	7-7	134	2
CD4049BF	7-7	142	3
CD4051BD/3	7-7	135	1
CD4053BF	7-7	137	2
CD4094BF	7-5	41	3
CF07-100J	7-9	68	5
CF07-101J	7-5	28	3
CF07-102J	7-11	22	28
CF07-103J	7-11	24	65
CF07-104J	7-5	20	5
CF07-105J	7-7	94	3
CF07-122J	7-7	105	1
CF07-123J	7-7	66	1
CF07-124J	7-7	99	1
CF07-151J	7-11	21	4
CF07-152J	7-7	103	1
CF07-153J	7-7	84	3
CF07-154J	7-5	22	3
CF07-182J	7-11	31	4
CF07-183J	7-7	88	1
CF07-184J	7-7	97	2
CF07-203J	7-11	26	2
CF07-220J	7-9	51	6
CF07-221J	7-9	83	3
CF07-222J	7-7	98	8
CF07-223J	7-11	25	6
CF07-224J	7-7	71	3
CF07-244J	7-7	80	1
CF07-270J	7-7	102	1
CF07-272J	7-7	91	3
CF07-273J	7-7	77	6
CF07-2R7J	7-7	92	5
CF07-332J	7-9	86	3
CF07-333J	7-11	32	12
CF07-334J	7-7	100	3
CF07-392J	7-7	89	1
CF07-393J	7-11	34	10
CF07-471J	7-7	73	6
CF07-472J	7-11	30	9
CF07-473J	7-11	27	7
CF07-475J	7-11	23	2
CF07-4R7J	7-7	83	1
CF07-561J	7-7	101	2
CF07-563J	7-7	74	2
CF07-623J	7-7	86	1
CF07-680J	7-10	10	3
CF07-681J	7-7	56	4
CF07-682J	7-9	84	3
CF07-6R8J	7-9	52	2
CF07-821J	7-7	93	1
CF07-822J	7-7	90	1
CF07-823J	7-7	78	5
CK05BX102K	7-9	11	5
CK05BX221K	7-7	18	2
CK05BX470K	7-11	10	2
CK06BX103K	7-11	15	10
CK06BX104K	7-11	3	2
CK06BX223K	7-9	21	3
CK06BX224K	7-7	19	2
CK06BX273K	7-9	24	3
CK06BX332K	7-9	23	3
CK06BX474K	7-7	20	11
CM05ED220J03	7-11	8	2
CM05FD201G03	7-11	12	2
CM06FD152J03	7-7	8	3
CMR05E220T0DR	7-11	7	4
CMR05F201G0DR	7-11	11	4
CMR06F152G0DR	7-11	5	2
CMR06F182G0DR	7-7	23	1
CMR06F362G0DR	7-7	22	1
CX02N156K	7-7	29	1
DB24659-2	7-4	4	2
DCM462T100EC2B	7-2	9	1
DE24657	7-4	2	1
DM53741-5059	7-2	2	5
DM5416J	7-5	40	1
DRD-10C	7-11	35	2
DS1488J	7-7	123	3
DS1489AJ	7-11	47	2
E312-E0001	7-5	38	1
ERD50TJ100	7-9	45	4
ERD50TJ101	7-11	33	1
ERD50TJ102	7-9	74	3
ERD50TJ271	7-9	76	3
FOX0432	7-11	56	2
GC283	7-3	4	1
H-0963	7-5	53	3
H-6768	7-2	42	4
H-6769	7-2	37	5
H6767	7-2	30	5
HLCD0438AY	7-6	6	5
JAN1N3611	7-11	16	9
JAN1N4454	7-10	1	3
JAN1N4463	7-9	95	3
JAN1N5417	7-9	28	16
JAN1N750A	7-7	35	2
JAN2N2219A	7-9	36	4
JAN2N2222A	7-5	19	3

Part Number	Fig No.	Index No.	Qty per End Item
JAN2N2907A	7-7	52	3
JAN2N3439	7-9	35	4
JAN2N4091	7-7	53	2
JAN2N6338	7-9	39	2
JAN2N6341	7-9	38	2
K-0118	7-10	5	1
KFH-440-8	7-9	105	6
L13-0002-331	7-9	32	1
L13-0002-470	7-9	31	1
LM120H-5.0	7-7	146	3
M24243/1-B304	7-7	156	6
M24243/1-B402	7-7	157	16
M24243/5-B402	7-2	38	2
M24308/1-1	7-4	3	1
M24308/1-3	7-4	5	2
M38510/10703BXC	7-11	54	3
M38510/11201BCB	7-7	138	1
M38510/11501BXC	7-11	53	2
M38510/17204BCB	7-7	143	1
M38510/30003BCB	7-11	41	3
M38510/30301BCB	7-11	49	3
M38510/30501BCB	7-7	144	1
M38510/30608BEB	7-5	35	3
M38510/30701BEB	7-11	42	4
M38510/31004BCB	7-11	51	3
M38510/32502BRB	7-11	39	4
M39014/01-1330	7-7	31	1
M39014/01-1333	7-11	9	9
M39014/01-1341	7-7	17	1
M39014/01-1345	7-7	15	7
M39014/02-1326	7-7	32	1
M39014/02-1332	7-9	18	1
M39014/02-1335	7-9	25	1
M39014/02-1338	7-7	21	7
M39014/02-1340	7-9	12	1
M39014/02-1342	7-7	28	2
M39014/02-1344	7-9	7	1
M39014/02-1350	7-11	2	109
M39014/02-1354	7-7	26	1
M39014/02-1356	7-7	14	10
M39014/02-1360	7-11	14	14
M85049/41-12A	7-4	8	1
MC1488LDS	7-11	48	2
MC1558U	7-11	52	17
MD015E104MAA	7-5	1	17
MDA2501	7-2	13	1
MP-0745	7-5	52	2
MP-1142	7-11	18	8
MP042	7-11	55	1
MP150	7-7	152	1
MS-67-1-DC-WD	7-1	11	3
MS14046-6	7-5	16	3
MS15795-803	7-1	6	15
MS15795-805	7-8	1	4
MS15795-806	7-7	161	1
MS15795-807	7-2	28	5
MS15795-808	7-2	35	2
MS21266-1N	7-7	168	7
MS24693-C16	7-8	8	3
MS24693-C26	7-2	26	4
MS24693-C272	7-1	12	4
MS24693-C5	7-9	112	3
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MS35338-136	7-10	21	4
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MS51957-18	7-1	4	2
MS51957-2	7-10	19	4
MS51957-28	7-7	163	7
MS51957-3	7-10	20	2
MS51958-63	7-2	33	1
MS51959-4	7-2	25	4
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MS77068-1	7-9	107	4
MS90538-20	7-5	17	3
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RCR32G271JS	7-7	87	1
RCR42G122JS	7-2	18	1
RCR42G221JS	7-9	44	1
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RLR20C22R1FS	7-9	75	1
RN55D1000F	7-9	69	3
RN55D1003F	7-9	62	3
RN55D1151F	7-7	109	2
RN55D2211F	7-9	57	6
RN55D3321F	7-9	65	3
RN55D4320F	7-7	108	2
RN55D4750F	7-9	73	3
RN55D4751F	7-3	10	3
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RN55K2491FS	7-9	48	2
RN60D3010F	7-10	9	2
RNC55K1002FS	7-7	67	1
RNC55K1102FS	7-9	59	1
RNC55K1151FS	7-7	106	2
RNC55K1152FS	7-9	47	1
RNC55K1332FS	7-7	68	1
RNC55K2003FS	7-9	64	1
RNC55K2004FS	7-7	82	1
RNC55K2150FS	7-9	72	2
RNC55K2432FS	7-7	95	1
RNC55K3010FS	7-7	96	1
RNC55K4320FS	7-7	107	2
RNC55K4321FS	7-7	81	1
RNC55K4640FS	7-9	77	4
RNC55K5112FS	7-7	75	2
RNC55K6040FS	7-11	28	12
RNC55K8061FS	7-9	63	1
RNC60K23R7FS	7-9	71	1
RNC60K3010FS	7-10	8	4
RUR-D820	7-9	29	1
RW74U6R49F	7-5	29	1
SA571F	7-7	139	5
SA572F	7-7	141	1
SCN2661AA1I28	7-11	43	1
SE5561FE	7-9	93	1
SEPX-12	7-10	13	1
SG1524F	7-9	92	2
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SN54LS00J	7-5	34	3
SN54LS02J	7-7	126	4
SN54LS04J	7-11	50	2
SN54LS08J	7-7	121	4
SN54LS138J	7-5	32	3
SN54LS165J	7-7	116	3
SN54LS245J	7-11	40	4
SN54LS367AJ	7-5	37	4
SN54LS373J	7-7	120	5
SN54LS74AJ	7-5	39	3
T-2220	7-10	12	4
T2106	7-11	38	2
T392B106M010AS	7-5	2	3
T392B155M035AS	7-11	4	14
T392B335M025AS	7-11	6	32
T392C106M025AS	7-7	16	15
T392D226M025AS	7-9	14	3
T392F157K010AS	7-11	1	5
T392F157M010AS	7-7	6	6
T392F157M016AS	7-7	25	1
T392F686M025AS	7-7	30	1
TAPF10M25	7-5	4	4
TC-105A	7-2	3	9
TD271-28-4	7-7	171	1
TD8031AH	7-7	115	1
TDA2002H	7-7	2	1
TL071MJG	7-7	3	2
TMS99532NS	7-11	44	2
TY-23M	7-2	1	10
TY-304P	7-7	113	4
UA78M12HM	7-5	42	3
ULQ-2003R	7-7	140	1
V275LA40A	7-2	20	2
VA78M05HM	7-7	145	1
VHE1402	7-9	30	1
W58XB1A6A-1	7-2	10	2
W58XB1A6A-5	7-2	11	1
010440B062	7-5	49	4
010440B112	7-9	109	3
0180-2827	7-9	9	4
0736-7232	7-6	1	2
08-56-0110	7-7	169	6
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10085-0065	7-4	6	1
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10085-0576	7-10	15	1
10085-0577	7-10	16	1
10085-0578	7-10	22	1
10085-0579	7-10	14	1
10085-1209	7-8	3	1
10085-1224	7-9	88	1
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10085-1230	7-8	6	1
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10085-1245	7-9	98	1
10085-1247	7-8	5	1
10085-1260	7-8	4	1
10085-1266	7-9	91	1
10085-1268	7-9	34	1
10085-1269	7-9	97	1
10085-2000	7-2	4	1
10085-2017	7-1	9	1
10085-2019	7-3	11	1
10085-2100	7-3	1	1
10085-2105	7-5	44	1
10085-2109	7-5	43	1
10085-2110	7-3	2	1
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10085-2120	7-6	3	1
10085-2129	7-6	7	1
10085-2141	7-5	23	1
10085-2142	7-5	25	1
10085-2143	7-5	24	1
10085-2144	7-5	15	1
10085-5131	7-10	17	4
10085-5136	7-6	9	4
10085-5156	7-11	61	10
10085-5159	7-2	23	2
10085-5212	7-7	47	1
10087-2011	7-3	12	4
10087-2012	7-3	13	4
10087-5110	7-2	21	1
10088-0000	7-1		1
10088-0060	7-4		1
10088-0071	7-1	3	1
10088-0072	7-2	39	1
10088-0100	7-1	2	1
10088-0105	7-2	40	3
10088-0304	7-7	148	1
10088-0305	7-7	149	1
10088-0500	7-2	8	1
10088-0504	7-2	32	2
10088-0505	7-2	22	1
10088-5000	7-2	5	1
10088-5009	7-7	154	1
10088-5015	7-7	155	1
10088-6000	7-4	1	1
10088-6006	7-11	19	1
10088-6009	7-11	57	1
10088-7021	7-7	41	1
10088-9540	7-7	124	1
101-BB-1029	7-2	36	4
1010M	7-5	45	1
103101	7-9	110	5
10350-A-1032-2	7-1	10	2
105-0858-001	7-7	114	1
113	7-3	3	2
117-DBE-25PA	7-7	36	1
1251-6823	7-7	42	2
1251-8273	7-5	11	1
1251-8274	7-5	13	1
151-0625-00	7-9	40	1
18097B-B0440-14	7-5	46	12
199D225X9025BG2	7-5	3	1
1N4738A	7-9	96	2
1N4743A	7-9	94	2
205817-1	7-7	166	2
207376-1	7-3	8	1
207377-1	7-2	15	3
207378-3	7-7	38	1
22-01-3037	7-3	9	3
22-01-3057	7-3	6	1
22-01-3087	7-3	7	6
22-11-2052	7-10	4	3
22-11-2082	7-7	39	1
22-12-2034	7-5	10	3
22-SLOTB-BRASS	7-1	8	1
2261-N116	7-5	51	2
22NTE-62	7-1	5	2
2813-03-16	7-5	50	7
2N4236	7-9	41	3
3299W-1-104	7-7	72	2
3299W-1-504	7-7	104	2
3386B-1-501	7-9	82	3
3386F-1-502	7-5	26	8
351-8434-010	7-7	136	3
429E3F99KGZ	7-6	2	1
43-03-4	7-9	102	5
4308R-101-102	7-5	30	1
4308R-101-472	7-5	27	1
4310R-101-103	7-11	20	15
4511-175-87-2N	7-2	31	1
5082-4655	7-5	8	3
51718	7-9	89	1
528-AG11D	7-7	151	1
53894-41	7-2	17	1
540-AG11D	7-7	150	1
54483-2	7-2	16	1
5710-8-20	7-7	160	6
588D205-12	7-4	9	6
609-1007	7-5	12	3
609-1027	7-10	3	3
609-1407	7-7	37	3
609-1607	7-7	43	1
609-2027	7-7	44	2
609-2607	7-11	17	1
61060-1	7-9	111	3
610PB	7-7	159	1
61134-1	7-9	104	6
6232-SS-0632	7-8	7	2
65474-001	7-7	164	2
65499-102	7-7	167	2
65499-103	7-7	165	1
65516-110	7-6	5	2
6611-0135	7-11	60	10
672D108H015ET5C	7-9	17	1
672D128H025FV5J	7-7	24	1
672D337H040ET5	7-9	5	7
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68XR2K	7-10	6	2	801591-31	7-9	6	2
70HFR20	7-2	12	1	804991-1	7-5	33	1
7101SDV70QE	7-5	31	1	8103908JB	7-7	131	1
72PM2K	7-9	46	1	82-32-101-20	7-2	41	4
7401T1ZGE	7-1	7	1	82-8666	7-3	5	1
7705801EB	7-7	119	2	87334-3	7-5	9	2
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1A1A19CR3	7-11	16
1A1A19CR4	7-11	16
1A1A19J1	7-11	17
1A1A19JMP1	7-11	18
1A1A19JMP2	7-11	18
1A1A19JMP3	7-11	18
1A1A19P1	7-11	19
1A1A19R2	7-11	20
1A1A19R3	7-11	20
1A1A19R4	7-11	20
1A1A19R5	7-11	20
1A1A19R10	7-11	21
1A1A19R11	7-11	22
1A1A19R12	7-11	22
1A1A19R13	7-11	23
1A1A19R14	7-11	20

Reference Designation	Fig No.	Index No.	Reference Designation	Fig No.	Index No.	Reference Designation	Fig No.	Index No.
1A1A19R16	7-11	22	1A1A19R33	7-11	24	1A1A19U7	7-11	43
1A1A19R17	7-11	22	1A1A19R34	7-11	24	1A1A19U8	7-11	40
1A1A19R18	7-11	21	1A1A19R38	7-11	24	1A1A19U9	7-11	44
1A1A19R19	7-11	24	1A1A19R39	7-11	33	1A1A19U10	7-11	45
1A1A19R20	7-11	24	1A1A19R40	7-11	34	1A1A19U11	7-11	46
1A1A19R21	7-11	25	1A1A19S1	7-11	35	1A1A19U13	7-11	47
1A1A19R22	7-11	26	1A1A19S2	7-11	36	1A1A19U14	7-11	48
1A1A19R23	7-11	27	1A1A19S5	7-11	37	1A1A19U15	7-11	49
1A1A19R25	7-11	28	1A1A19T1	7-11	38	1A1A19U16	7-11	50
1A1A19R27	7-11	29	1A1A19T2	7-11	38	1A1A19U17	7-11	51
1A1A19R28	7-11	25	1A1A19U1	7-11	39	1A1A19U18	7-11	52
1A1A19R29	7-11	30	1A1A19U2	7-11	40	1A1A19VR1	7-11	53
1A1A19R30	7-11	31	1A1A19U3	7-11	40	1A1A19VR4	7-11	54
1A1A19R31	7-11	31	1A1A19U4	7-11	41	1A1A19Y1	7-11	55
1A1A19R32	7-11	32	1A1A19U5	7-11	42	1A1A19Y2	7-11	56

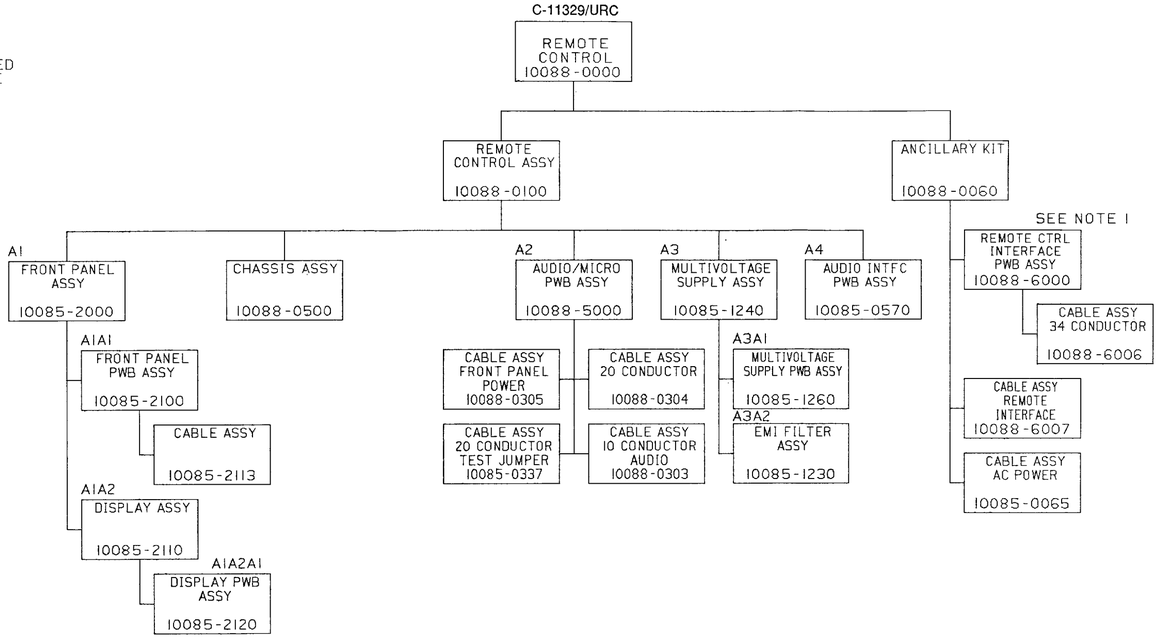
CHAPTER 8

FOLDOUT DRAWINGS

LIST OF REMOTE CONTROL FOLDOUT DRAWINGS

GPO 687-000/41896

NOTES:
1. THE 10088-6000 ASSEMBLY IS INSTALLED IN THE TRANSCEIVER WHEN THE REMOTE CONTROL OPTION IS USED.

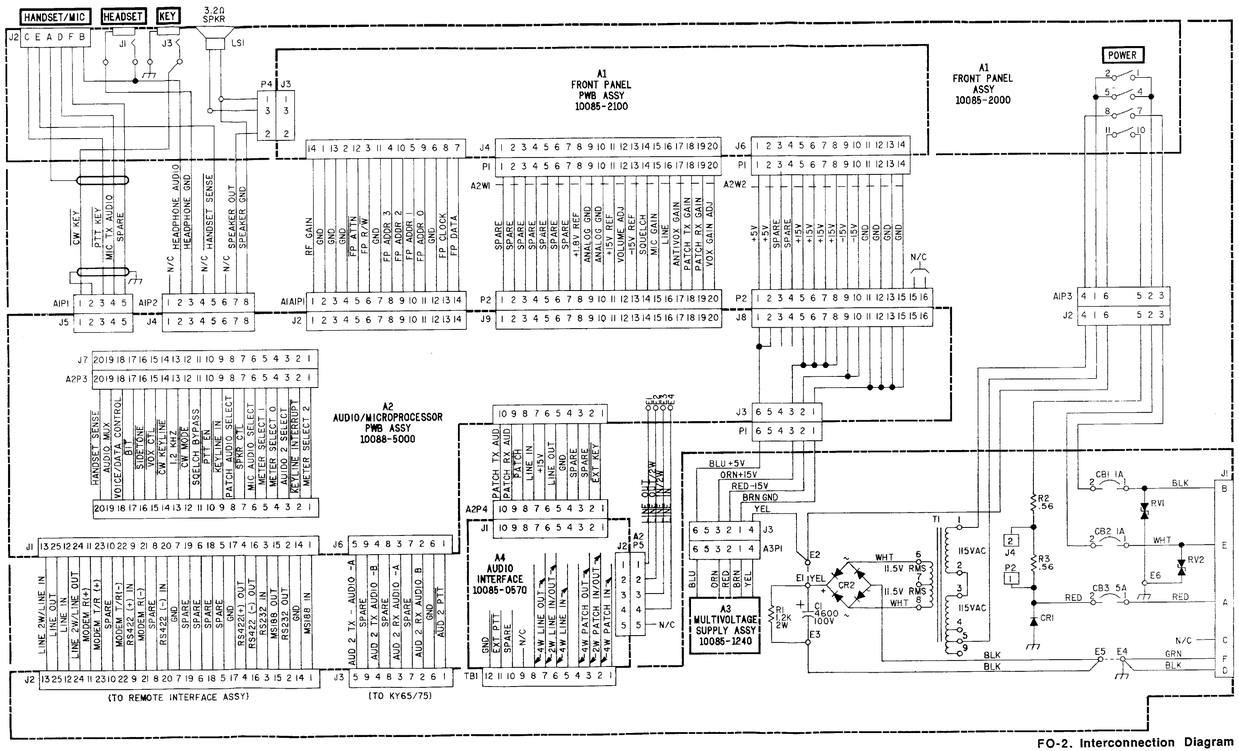


FO-1. Family Tree Remote Control Unit

NOTE: UNLESS OTHERWISE SPECIFIED:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR DETAIL PARTS. PREFIX THESE WITH UNIT NO. AND/OR ASSEMBLY DESIGNATIONS SHOWN ON DRAWING TO OBTAIN COMPLETE DESIGNATIONS.
2. ALL RESISTOR VALUES ARE IN OHMS, 1/4W, ±5%.
3. ALL CAPACITOR VALUES ARE IN MICROFARADS (UF).
4. ALL INDUCTANCE VALUES ARE IN MILLIHENRIES (MH).
5. VENDOR PART NO. CALLOUTS ARE FOR REFERENCE ONLY. COMPONENTS ARE SUPPLIED PER PART NO. IN PARTS LIST.
6. DC RESISTANCES OF INDUCTIVE ELEMENTS (CHOKES, COILS, MOTOR WINDINGS, ETC.,) ARE LESS THAN 1 OHM.
7. PANEL DECALS ARE INDICATED BY BOLD TYPE IN A BOLD BOX, E.G., **ON/OFF**
8. ALL RELAYS ARE SHOWN IN THE DE-ENERGIZED STATE.

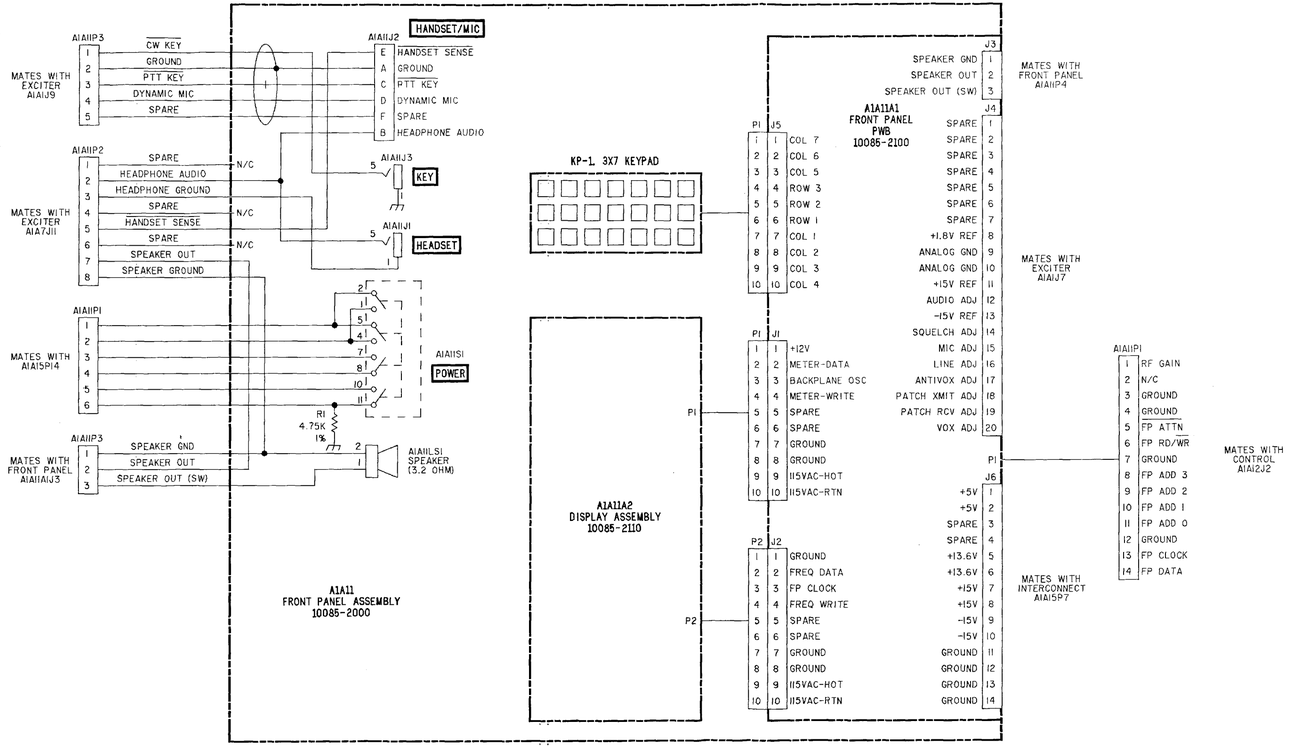
HIGHEST REFERENCE DESIGNATION
REFERENCE DESIGNATIONS NOT USED



FO-2. Interconnection Diagram

NOTE: UNLESS OTHERWISE SPECIFIED:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR DETAIL PARTS. PREFIX THESE WITH UNIT NO. AND/OR ASSEMBLY DESIGNATIONS SHOWN ON DRAWING TO OBTAIN COMPLETE DESIGNATIONS.
2. ALL RESISTOR VALUES ARE IN OHMS, 1/4W, ±5%.
3. ALL CAPACITOR VALUES ARE IN MICROFARADS (UF).
4. ALL INDUCTANCE VALUES ARE IN MILLIHENRIES (MH).
5. VENDOR PART NO. CALLOUTS ARE FOR REFERENCE ONLY. COMPONENTS ARE SUPPLIED PER PART NO. IN PARTS LIST.
6. DC RESISTANCES OF INDUCTIVE ELEMENTS (CHOKES, COILS, MOTOR WINDINGS, ETC.,) ARE LESS THAN 1 OHM.
7. PANEL DECALS ARE INDICATED BY BOLD TYPE IN A BOLD BOX, E.G., **ON/OFF**
8. ALL RELAYS ARE SHOWN IN THE DE-ENERGIZED STATE.



FO-3. Front Panel Assy, A1

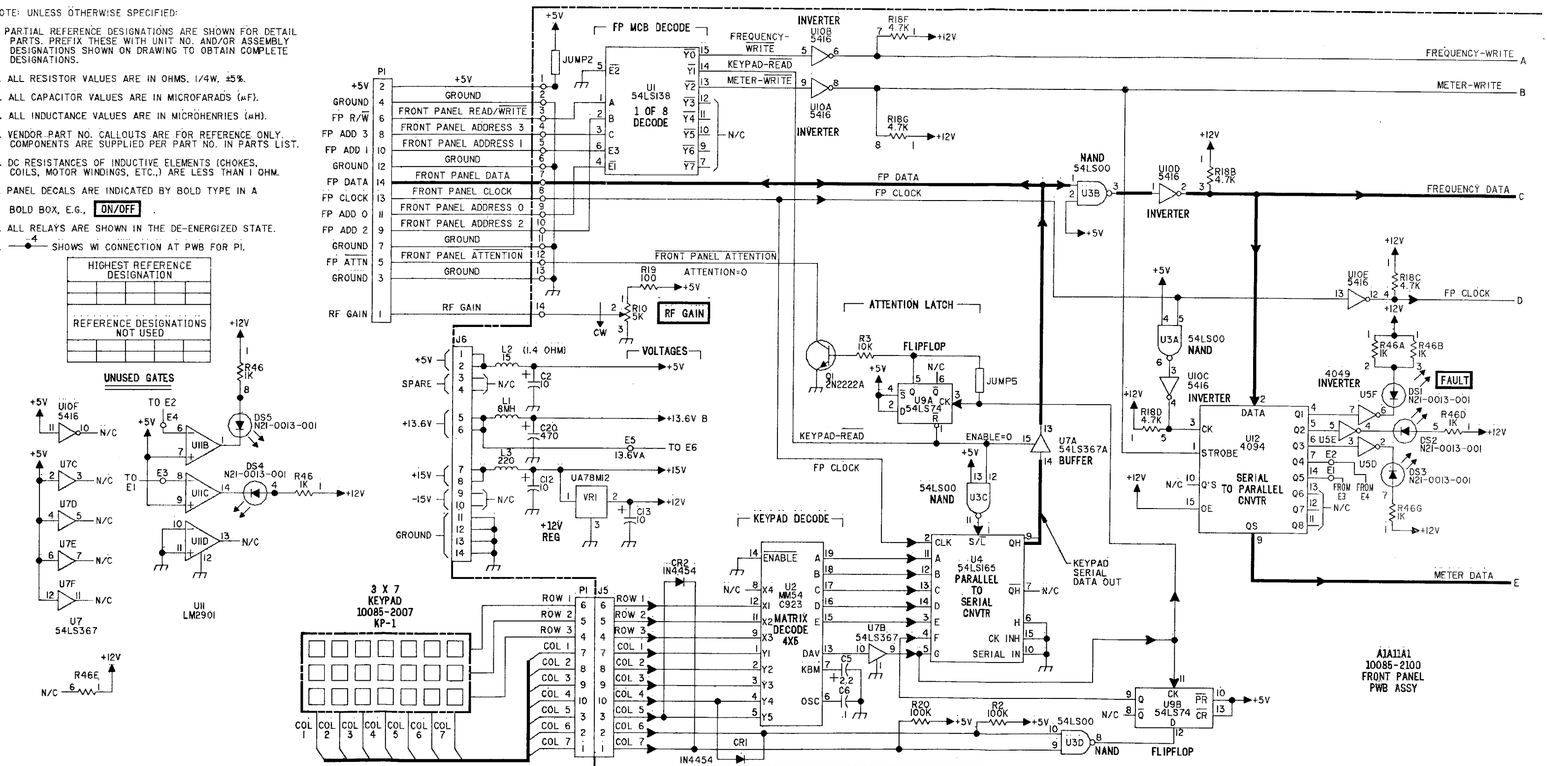
NOTE: UNLESS OTHERWISE SPECIFIED:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR DETAIL PARTS. PREFIX THESE WITH UNIT NO. AND/OR ASSEMBLY DESIGNATIONS SHOWN ON DRAWING TO OBTAIN COMPLETE DESIGNATIONS.
2. ALL RESISTOR VALUES ARE IN OHMS, 1/4W, ±5%.
3. ALL CAPACITOR VALUES ARE IN MICROFARADS (μF).
4. ALL INDUCTANCE VALUES ARE IN MICROHENRIES (μH).
5. VENDOR PART NO. CALLOUTS ARE FOR REFERENCE ONLY. COMPONENTS ARE SUPPLIED PER PART NO. IN PARTS LIST.
6. DC RESISTANCES OF INDUCTIVE ELEMENTS (CHOKES, COILS, MOTOR WINDINGS, ETC.,) ARE LESS THAN 1 OHM.
7. PANEL DECALS ARE INDICATED BY BOLD TYPE IN A BOLD BOX, E.G., **ON/OFF** .
8. ALL RELAYS ARE SHOWN IN THE DE-ENERGIZED STATE.
9. —4— SHOWS W1 CONNECTION AT PWB FOR P1.

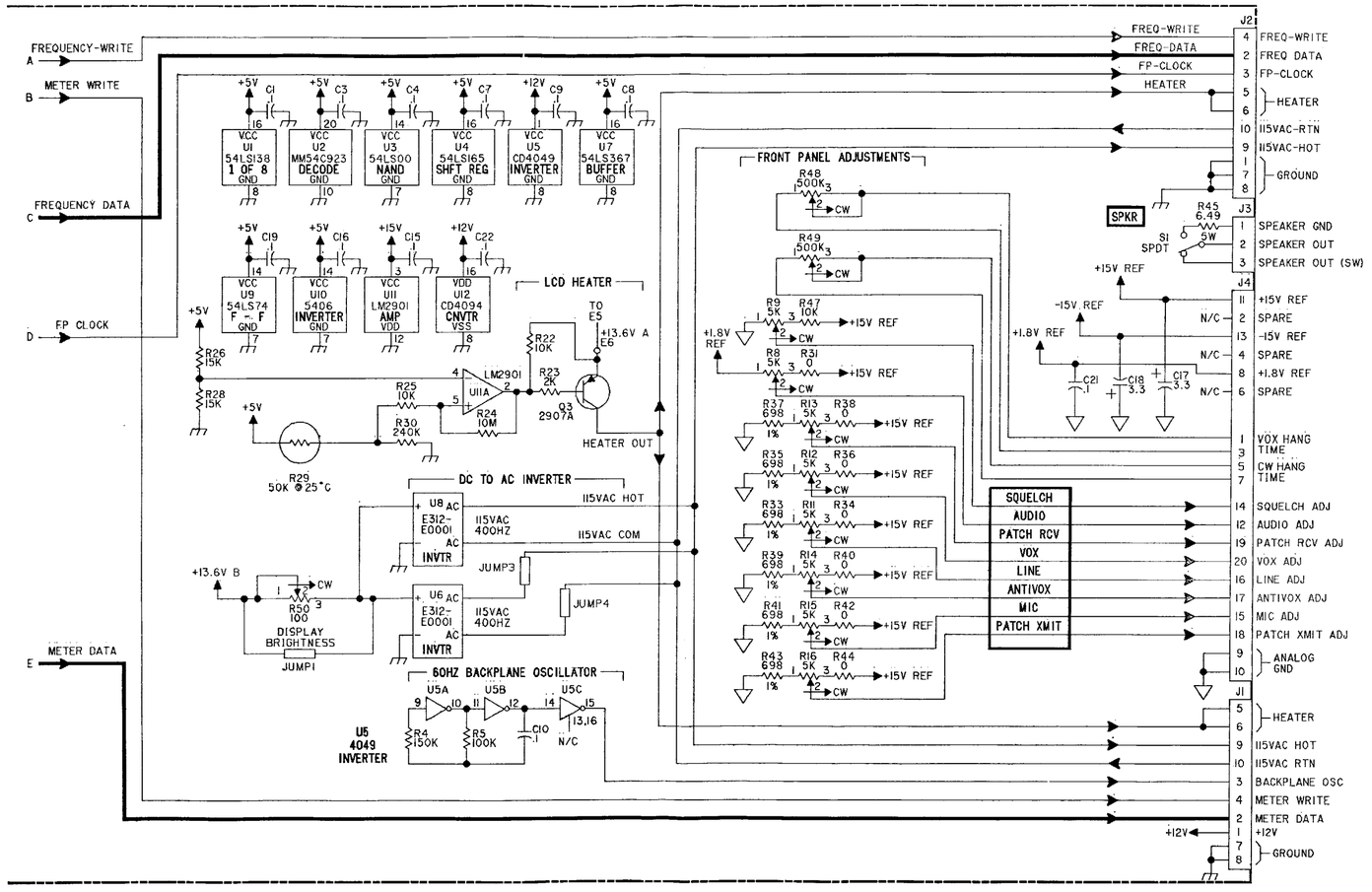
HIGHEST REFERENCE DESIGNATION

REFERENCE DESIGNATIONS NOT USED

UNUSED GATES



FO-4. Front Panel PWB Assy, A1A1 (Sheet 1 of 2)



FO-4. Front Panel PWB Assy, A1A1 (Sheet 2 of 2)

NOTE: UNLESS OTHERWISE SPECIFIED:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR DETAIL PARTS. PREFIX THESE WITH UNIT NO. AND/OR ASSEMBLY DESIGNATIONS SHOWN ON DRAWING TO OBTAIN COMPLETE DESIGNATIONS.
2. ALL RESISTOR VALUES ARE IN OHMS, 1/4W, ±5%.
3. ALL CAPACITOR VALUES ARE IN MICROFARADS (UF).
4. ALL INDUCTANCE VALUES ARE IN MILLIHENRIES (MH).
5. VENDOR PART NO. CALLOUTS ARE FOR REFERENCE ONLY. COMPONENTS ARE SUPPLIED PER PART NO. IN PARTS LIST.
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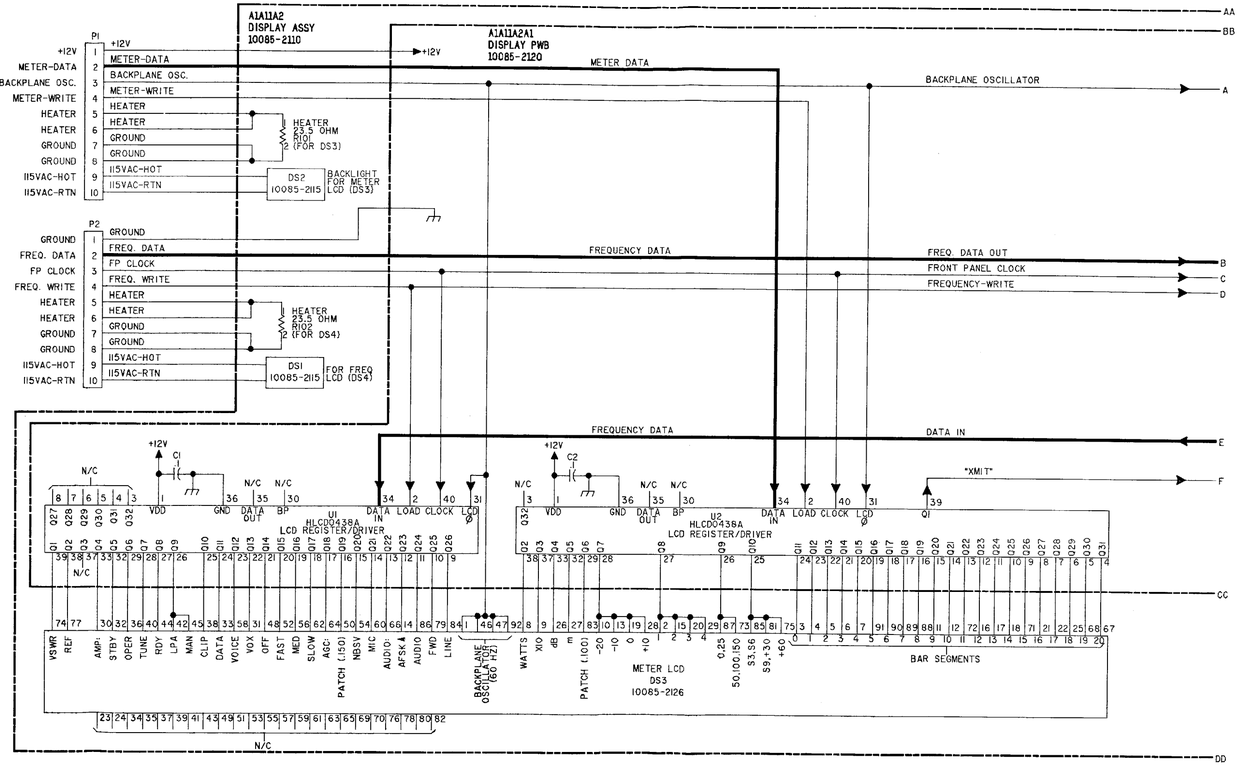
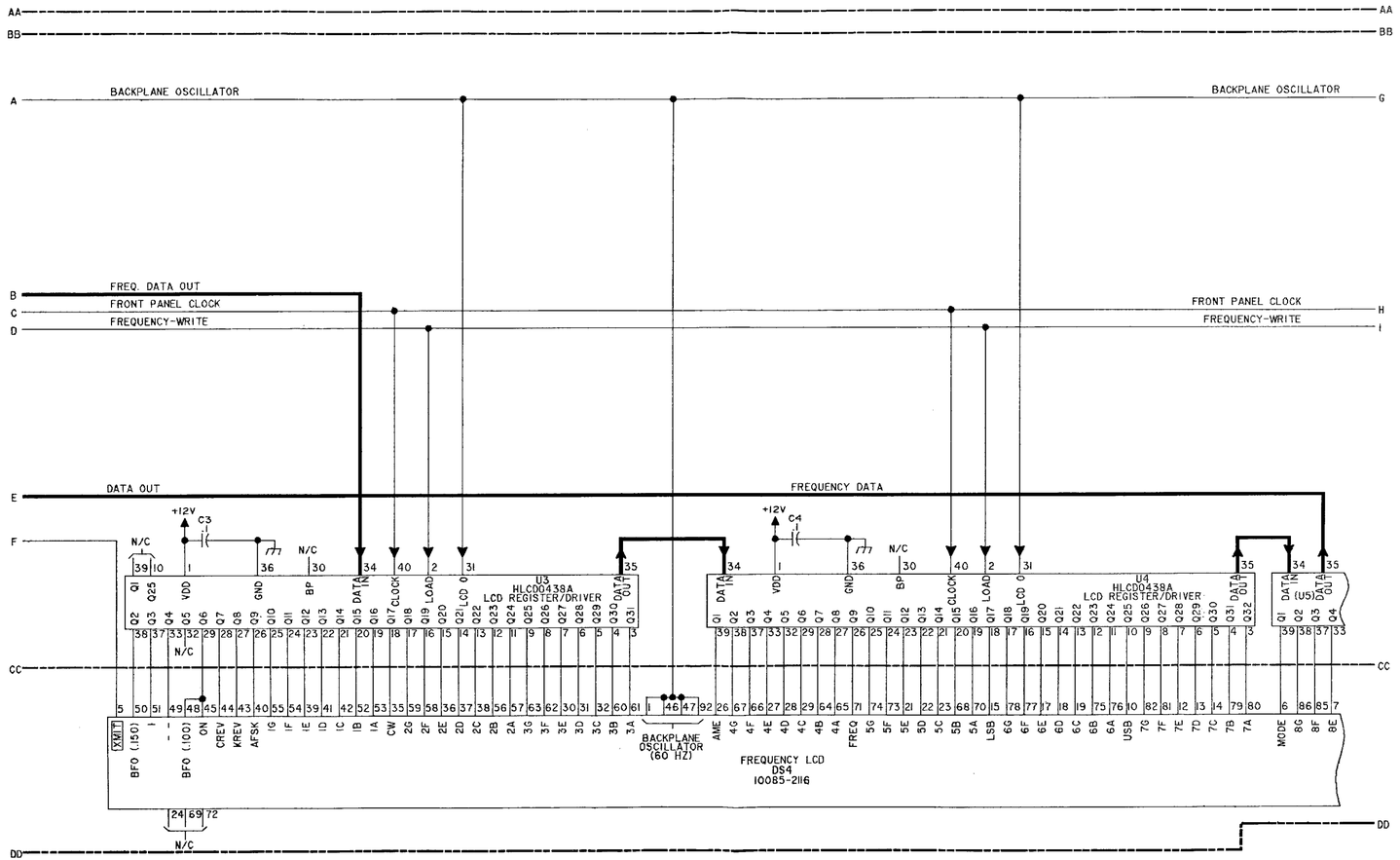
7. PANEL DECALS ARE INDICATED BY BOLD TYPE IN A BOLD BOX, E.G., **ON/OFF** .
8. ALL RELAYS ARE SHOWN IN THE DE-ENERGIZED STATE.

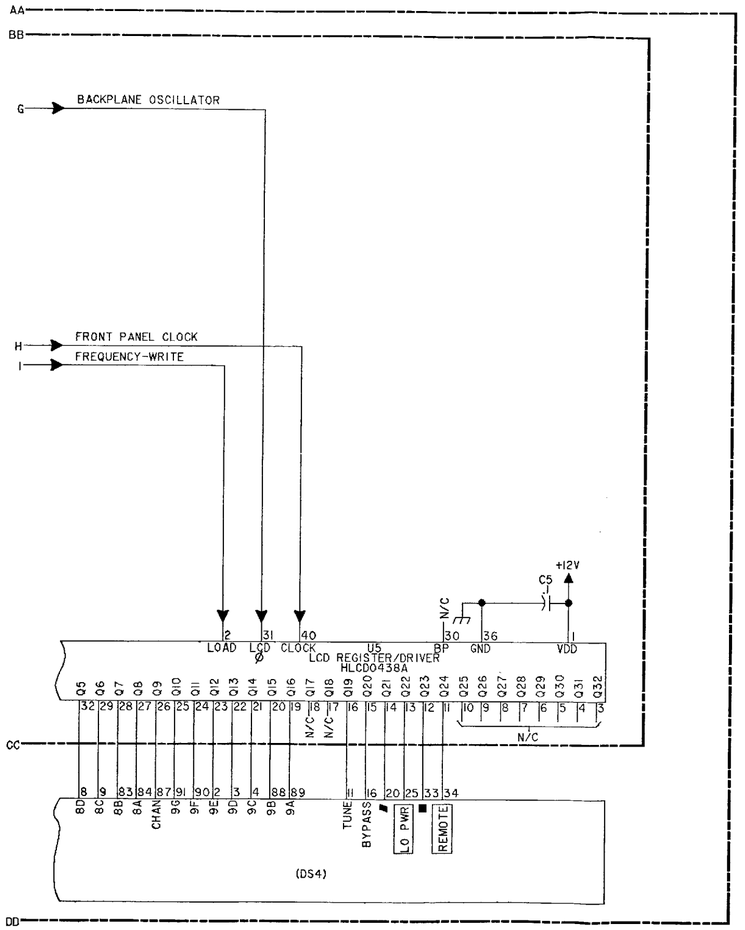
HIGHEST REFERENCE DESIGNATION
REFERENCE DESIGNATIONS NOT USED

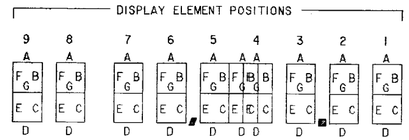


FO-5. Display Assy, A1A2 (Sheet 1 of 3)



FO-5. Display Assy, A1A2 (Sheet 2 of 3)





FO-5. Display Assy, A1A2 (Sheet 3 of 3)

NOTE: UNLESS OTHERWISE SPECIFIED:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR DETAIL PARTS. PREFIX THESE WITH UNIT NO. AND/OR ASSEMBLY DESIGNATIONS SHOWN ON DRAWING TO OBTAIN COMPLETE DESIGNATIONS.
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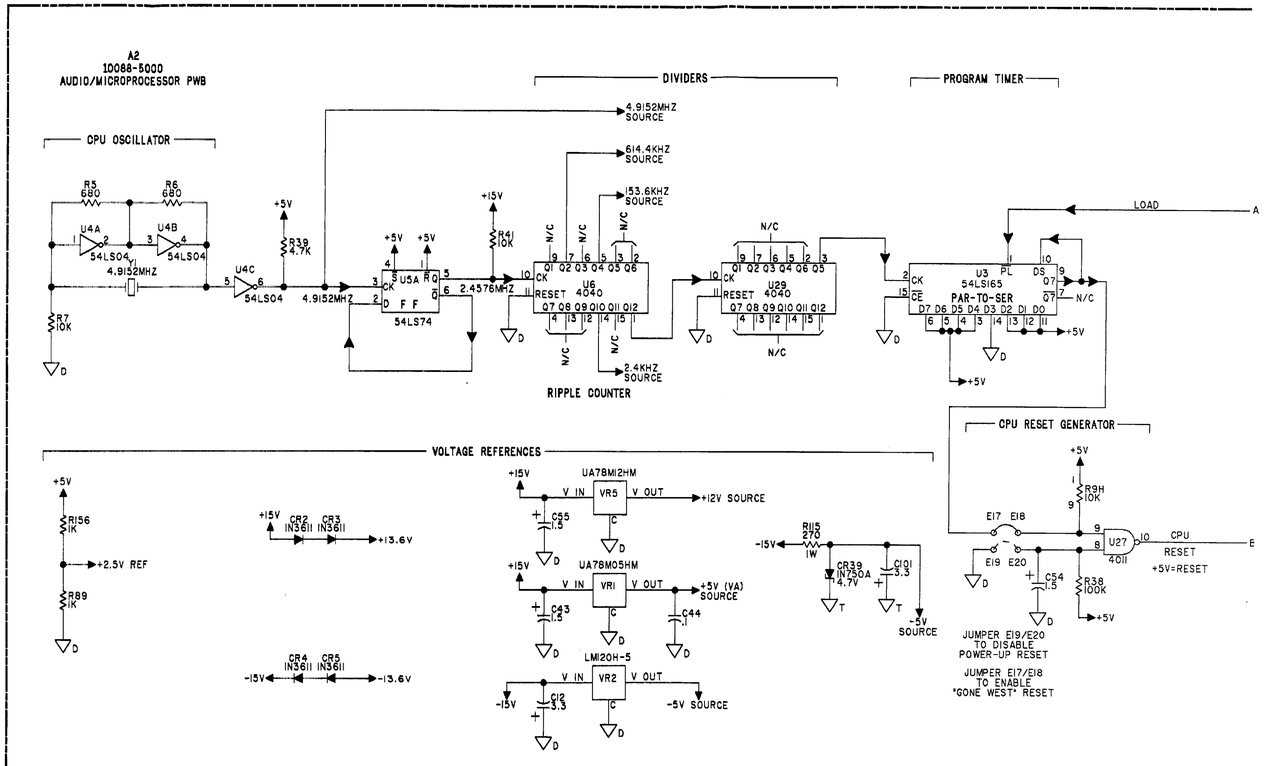
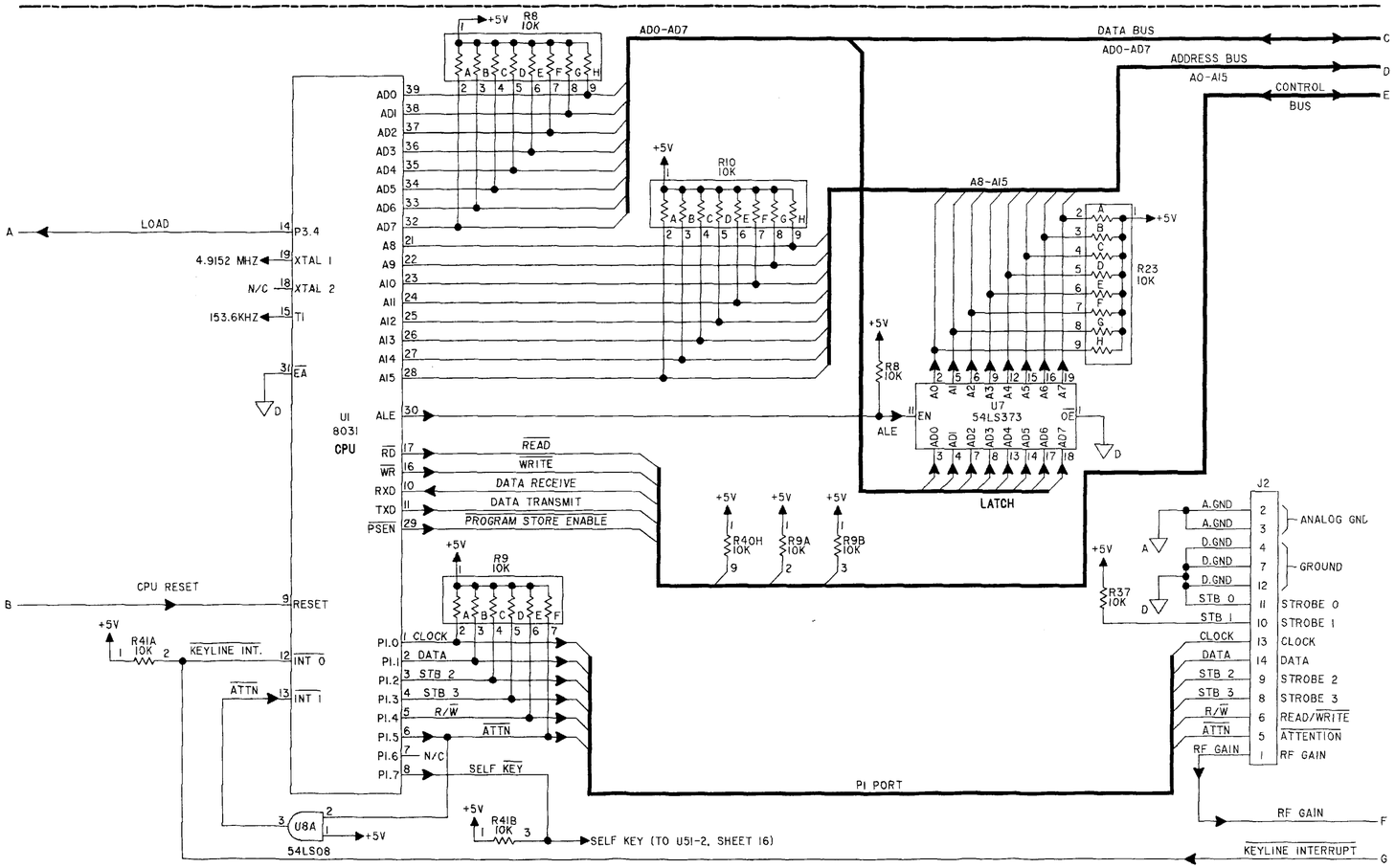
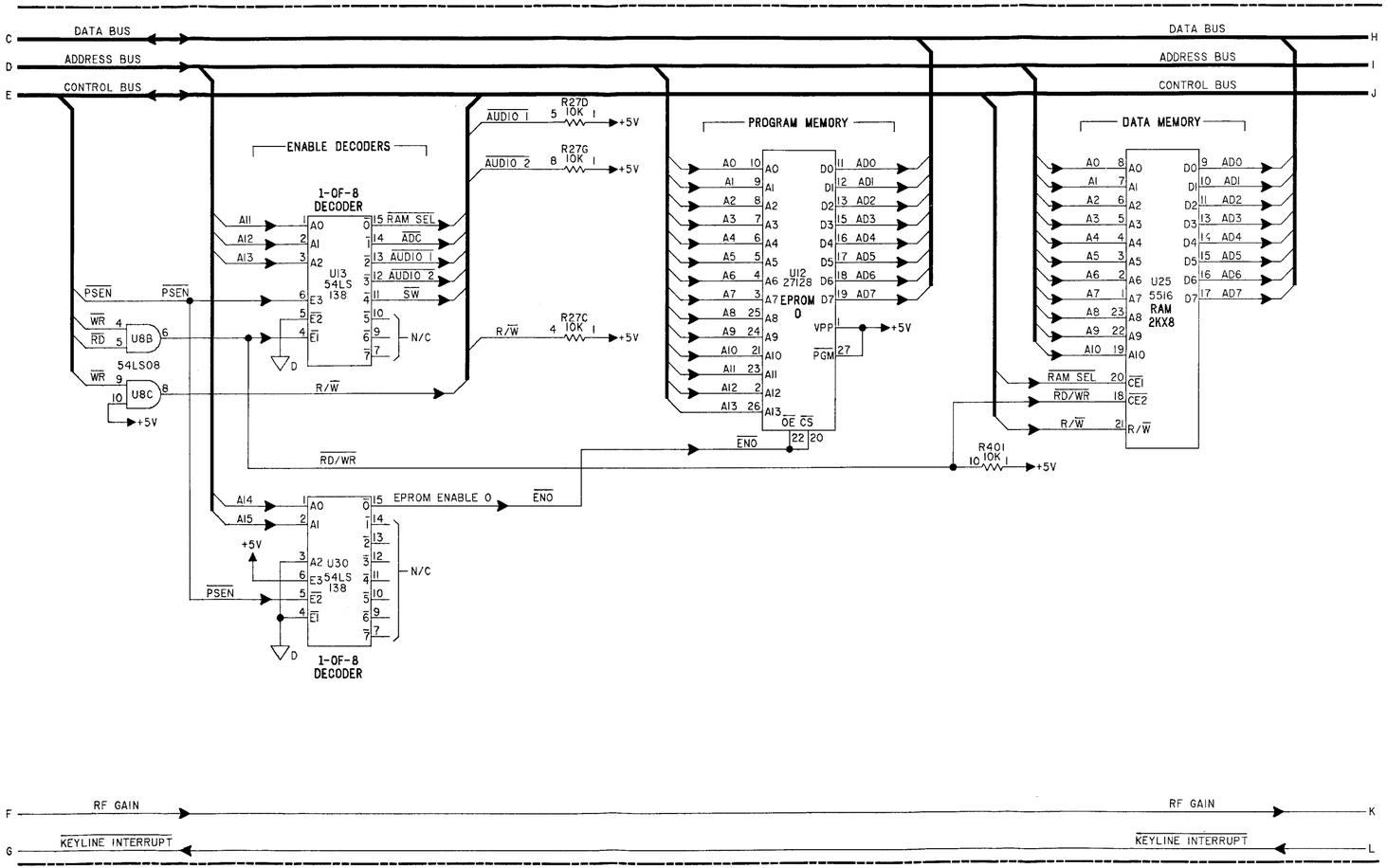
3. ALL CAPACITOR VALUES ARE IN MICROFARADS (UF).
4. ALL INDUCTANCE VALUES ARE IN MICROHENRIES (UH).
5. VENDOR PART NO. CALLOUTS ARE FOR REFERENCE ONLY. COMPONENTS ARE SUPPLIED PER PART NO. IN PARTS LIST.
6. DC RESISTANCES OF INDUCTIVE ELEMENTS (CHOKES, COILS, MOTOR WINDINGS, ETC.,) ARE LESS THAN 1 OHM.
7. PANEL DECALS ARE INDICATED BY BOLD TYPE IN A BOLD BOX, E.G., **ON/OFF**
8. ALL RELAYS ARE SHOWN IN THE DE-ENERGIZED STATE.



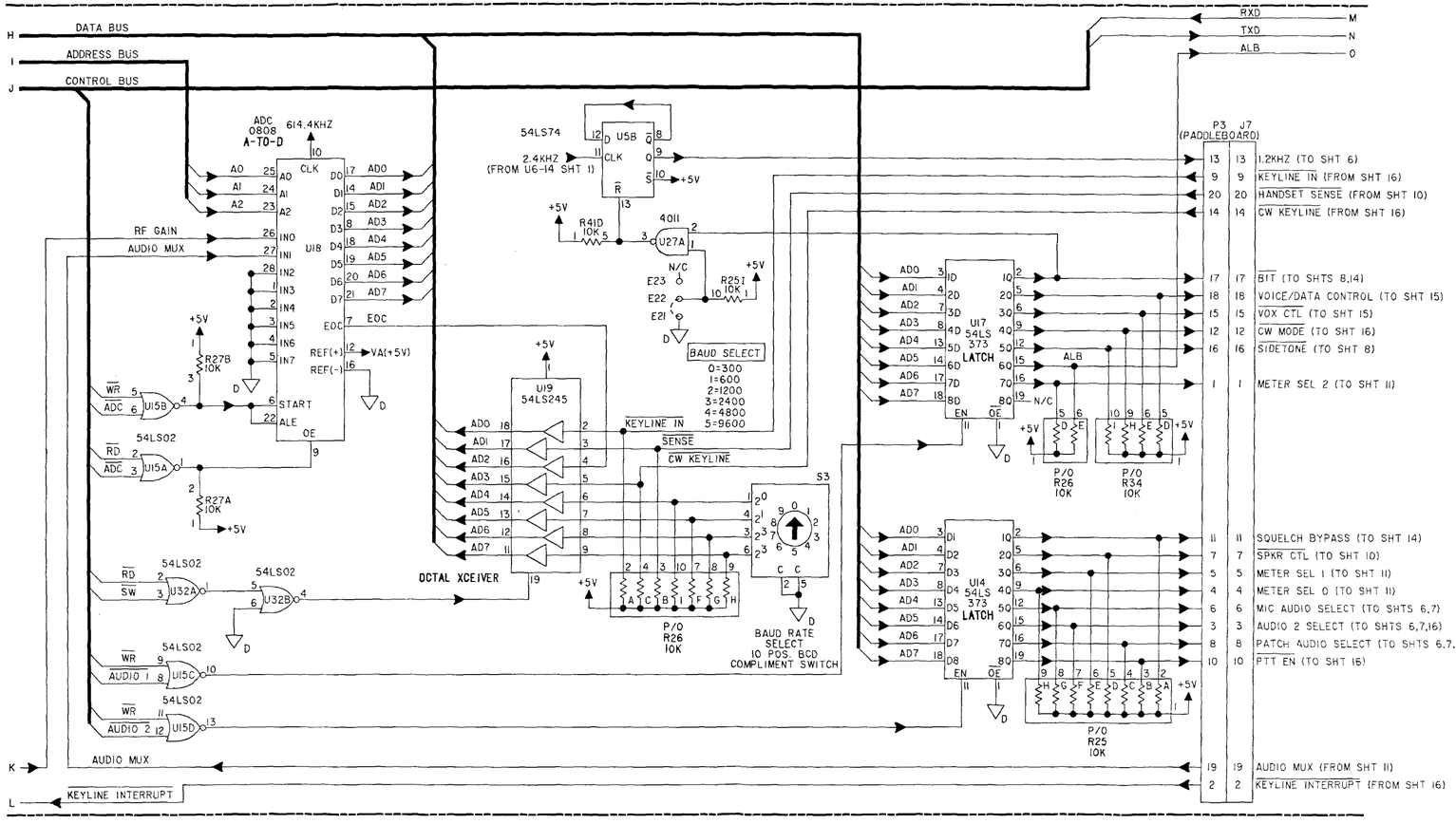
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 1 of 19)



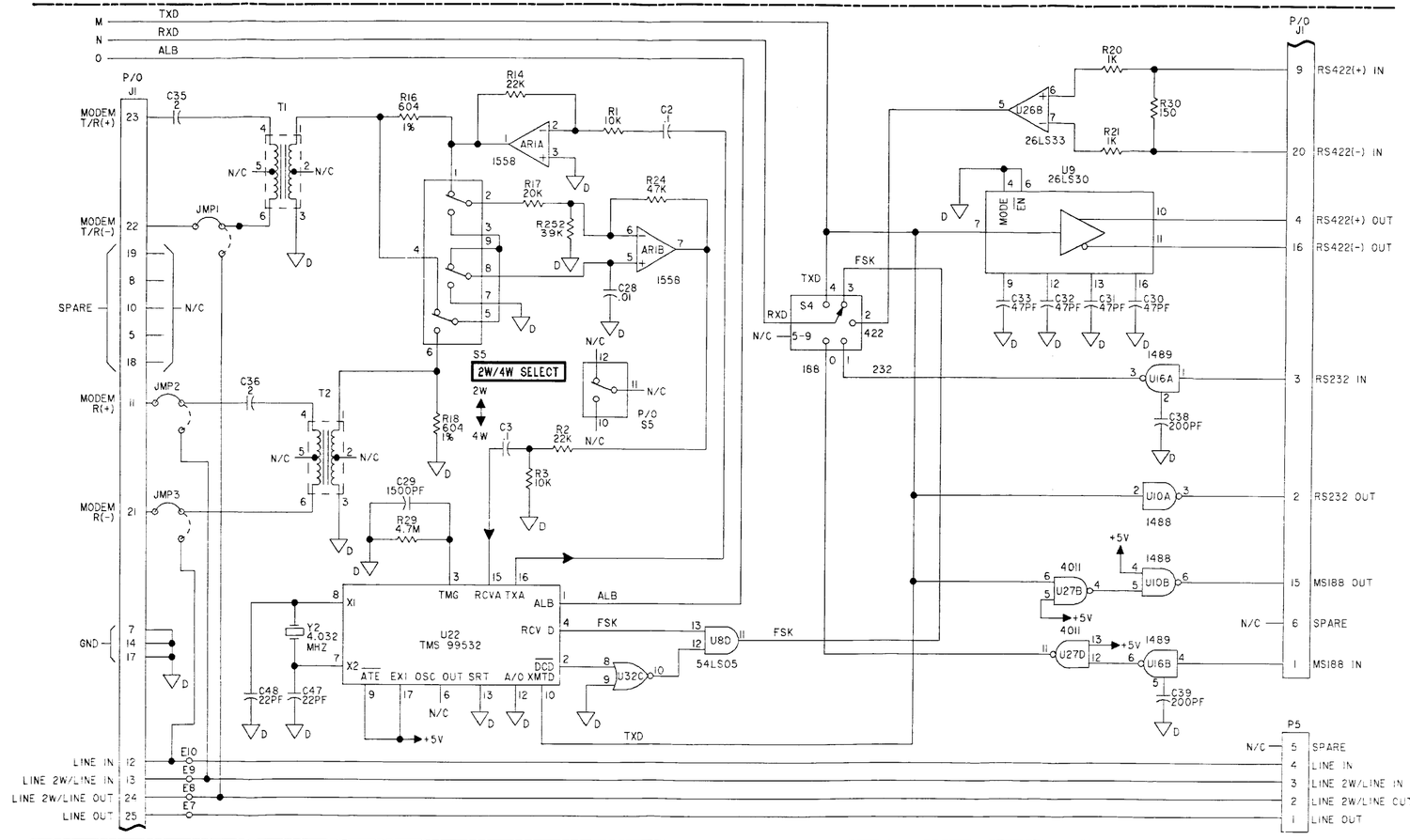
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 2 of 19)



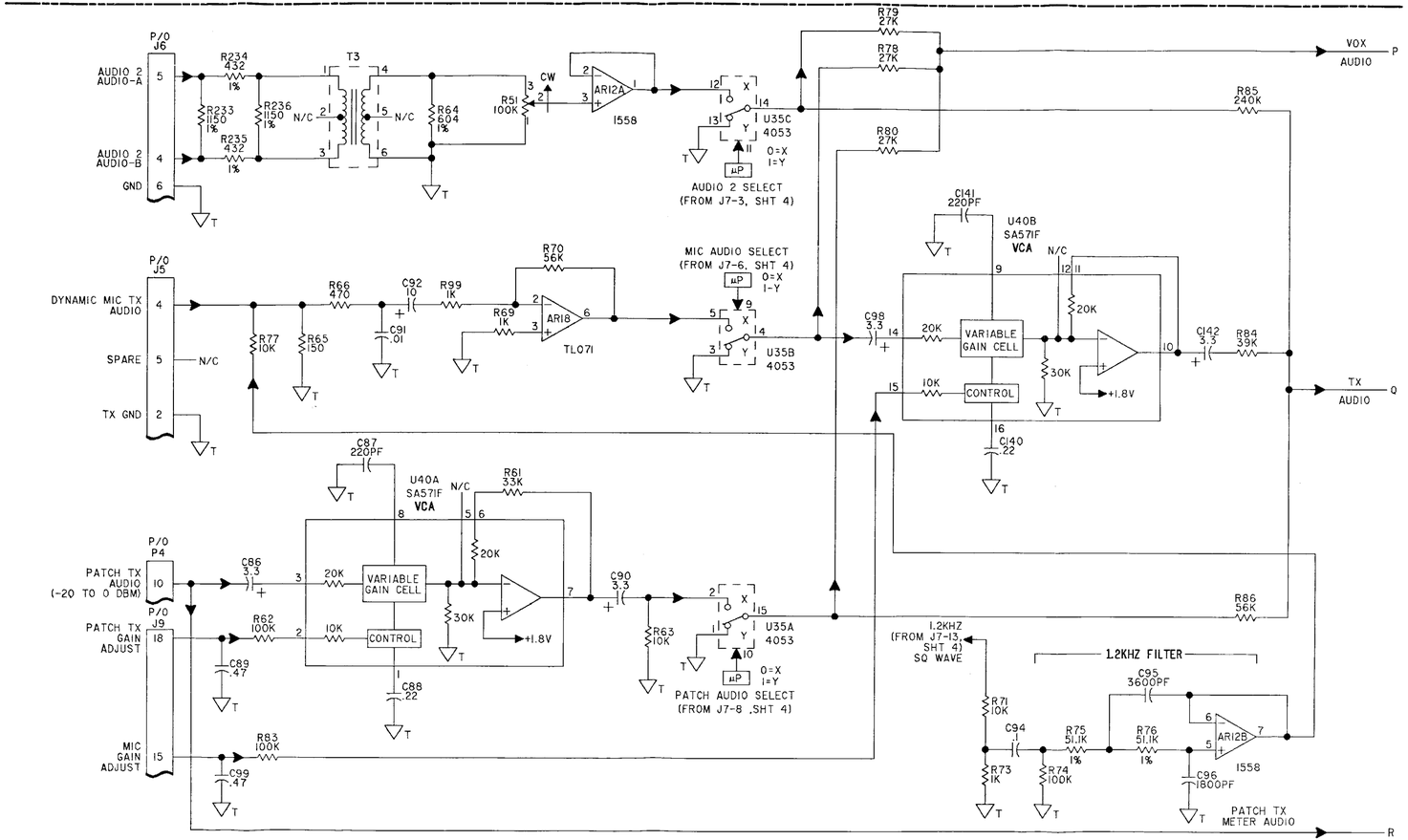
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 3 of 19)



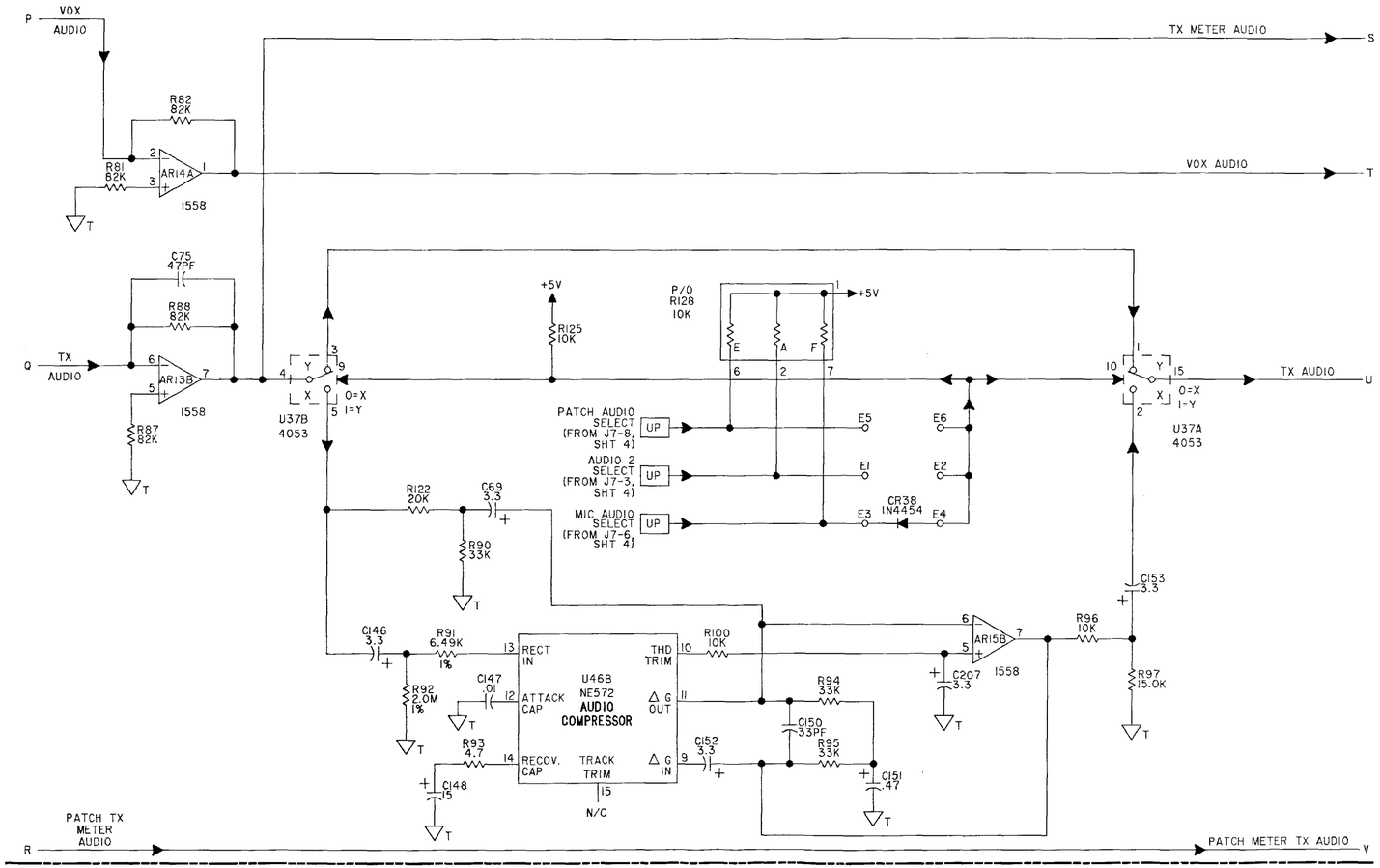
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 4 of 19)



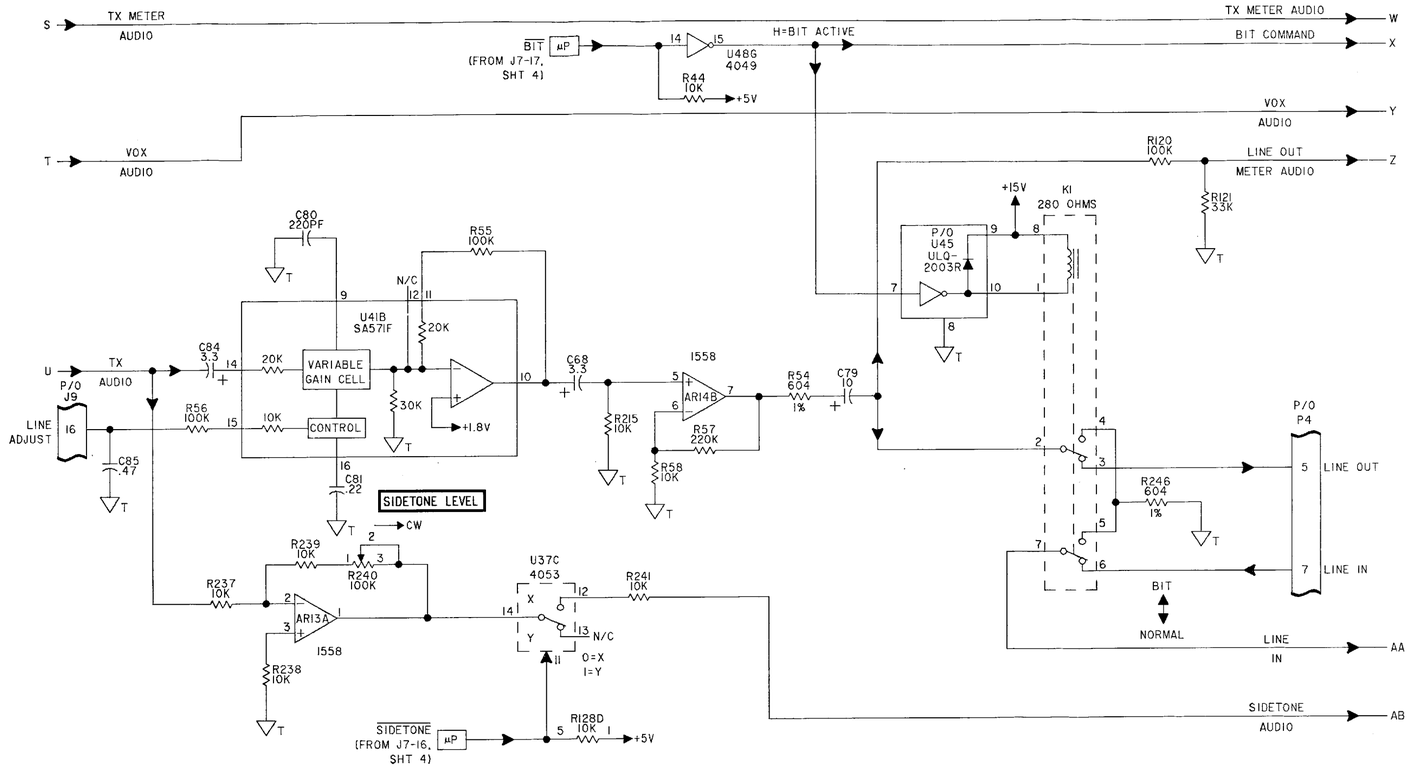
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 5 of 19)



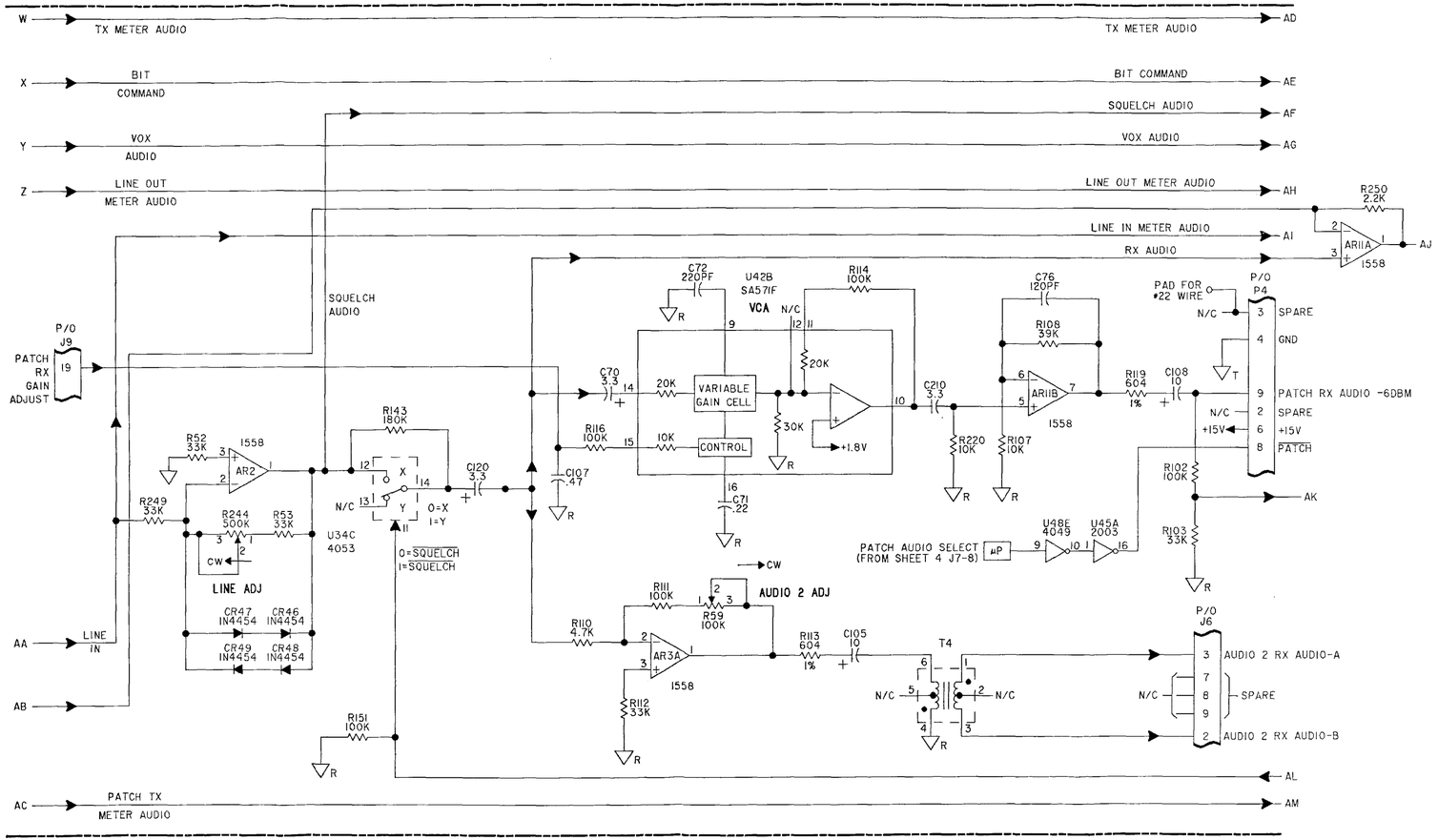
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 6 of 19)



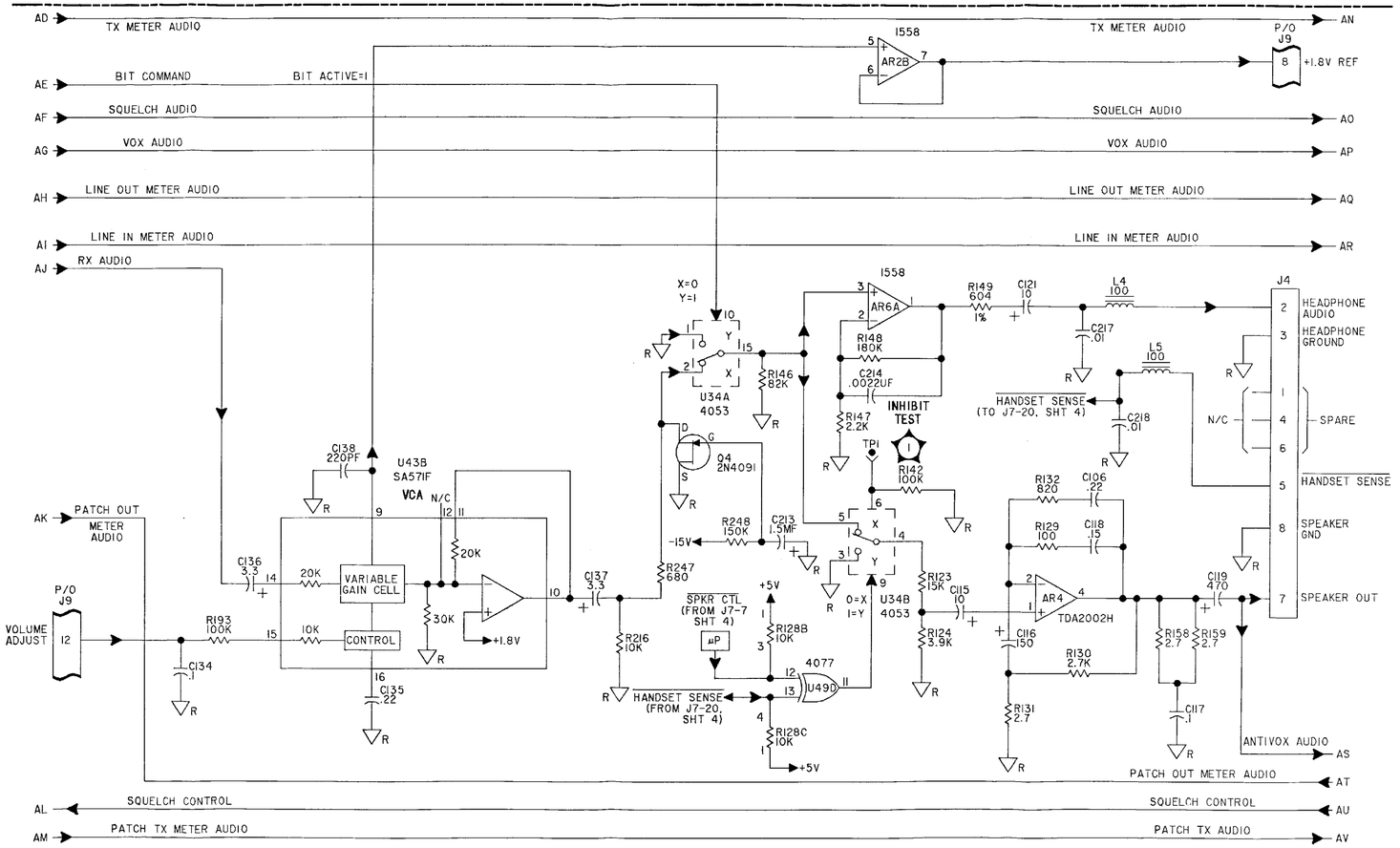
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 7 of 19)



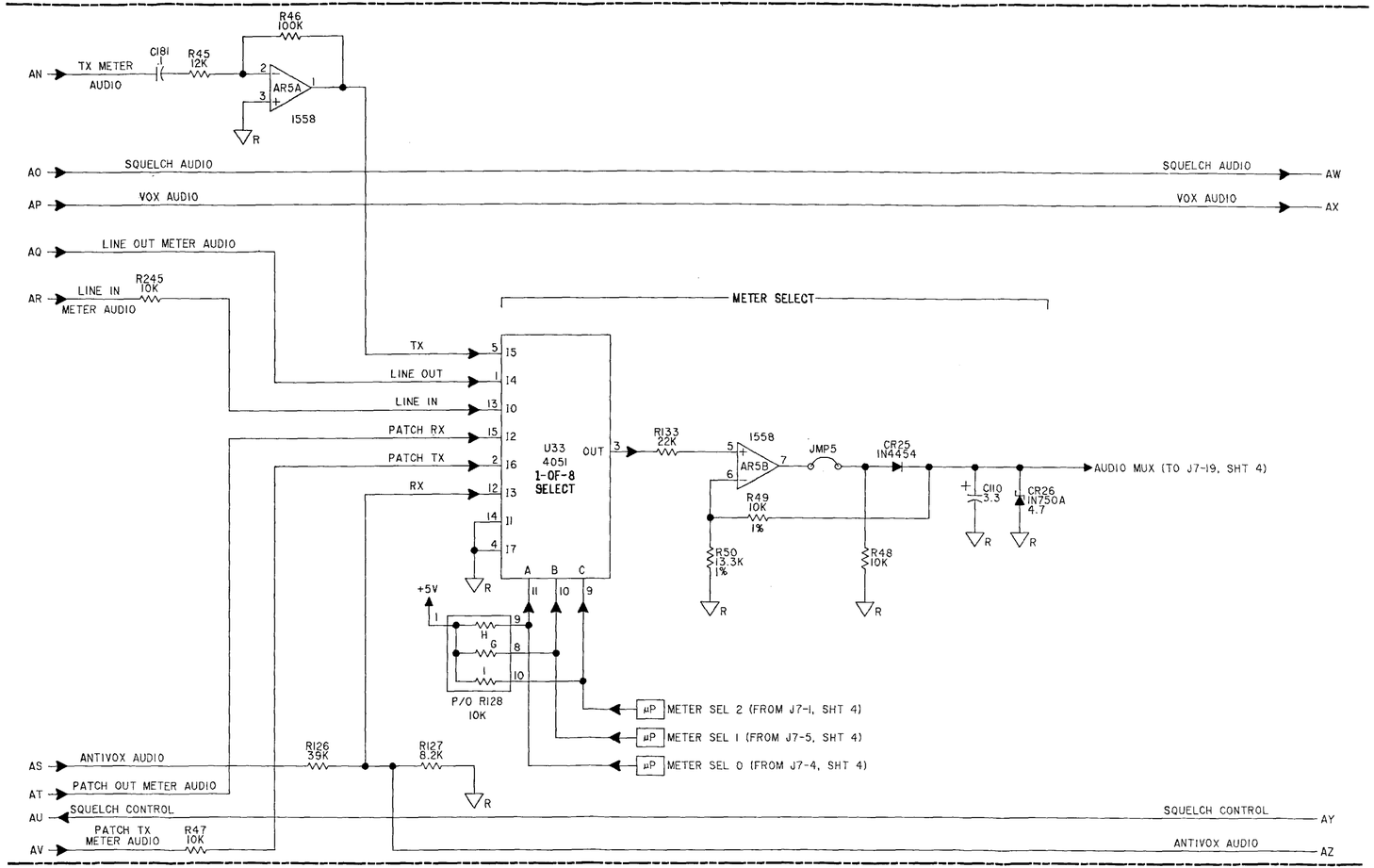
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 8 of 19)



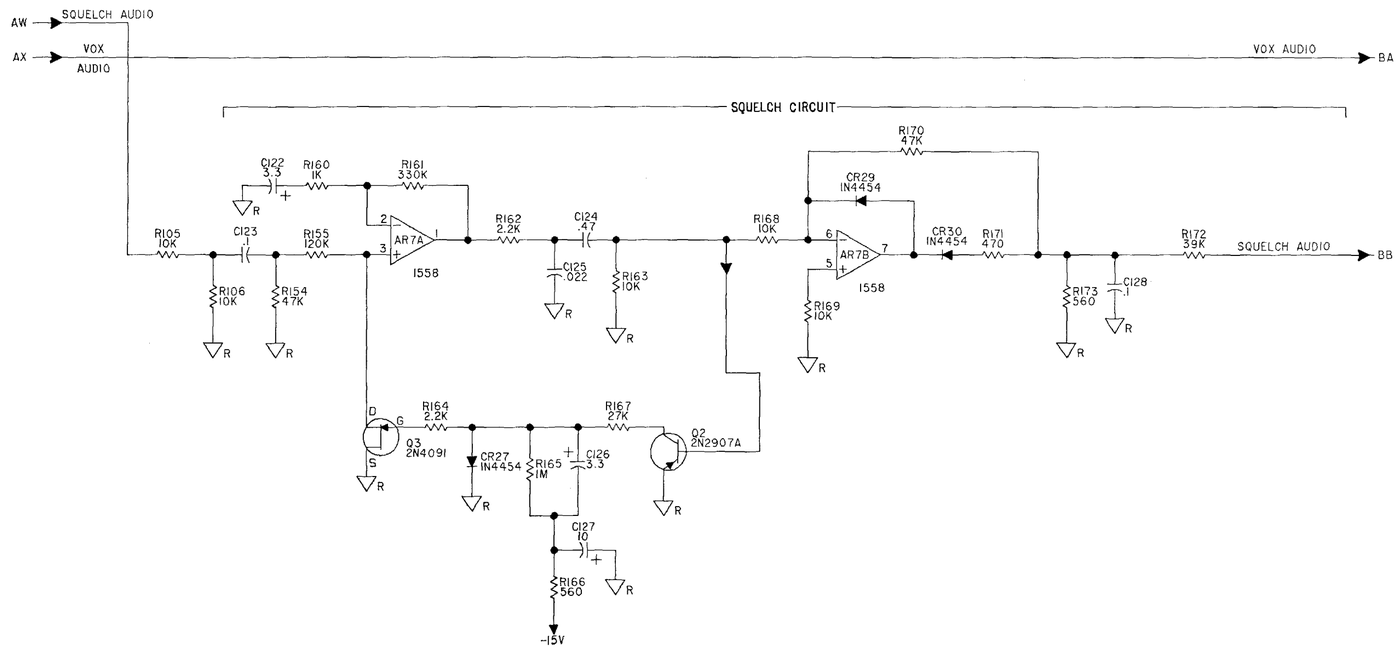
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 9 of 19)



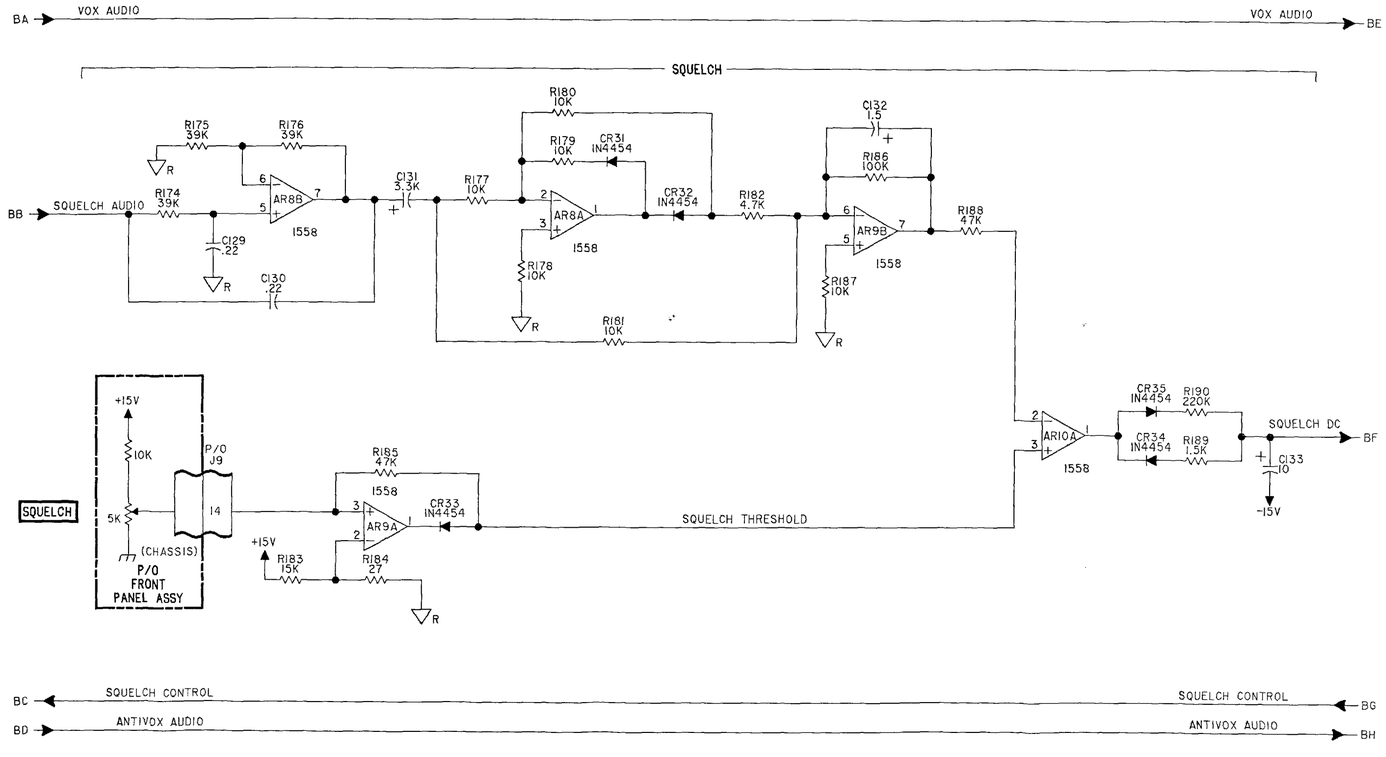
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 10 of 19)



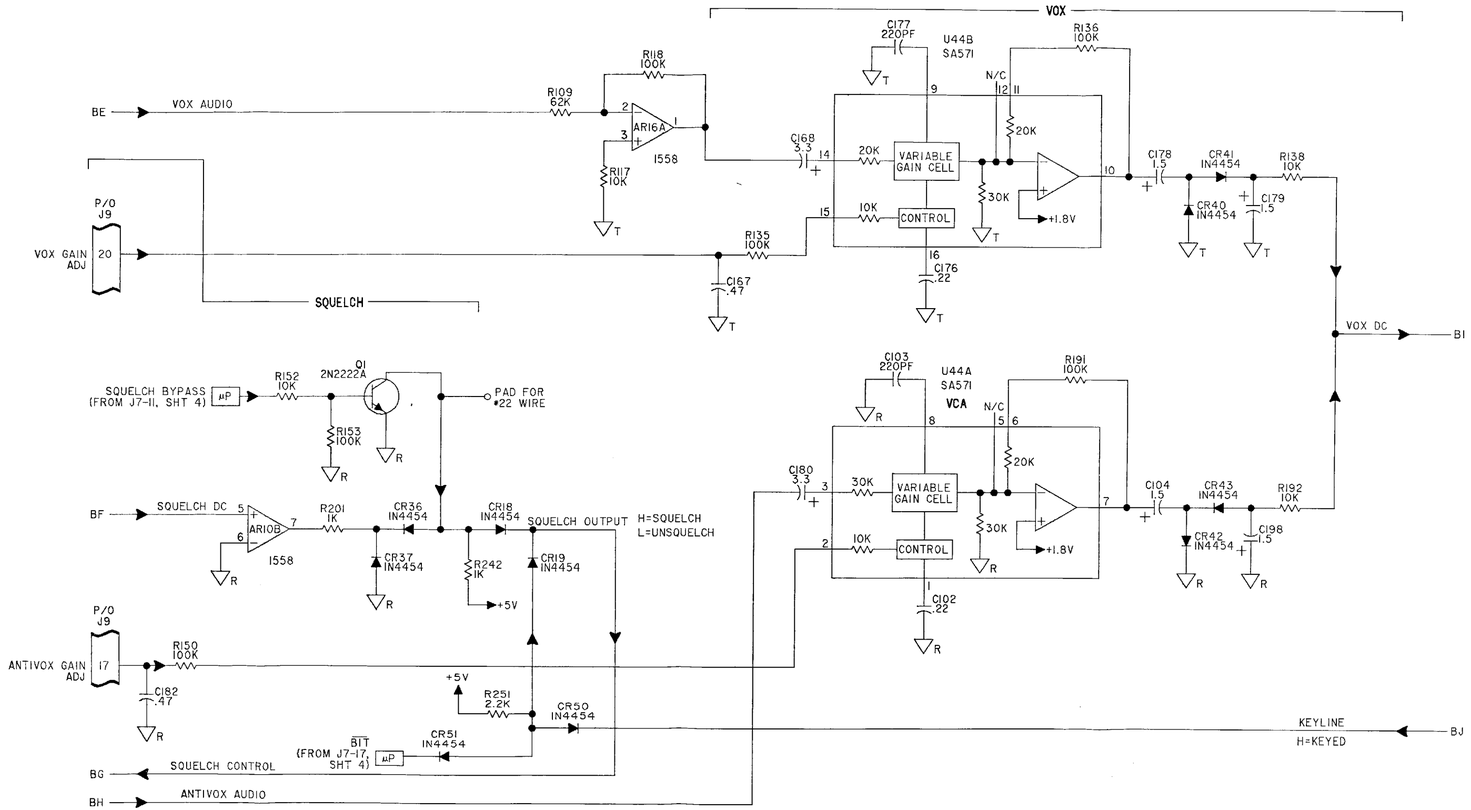
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 11 of 19)



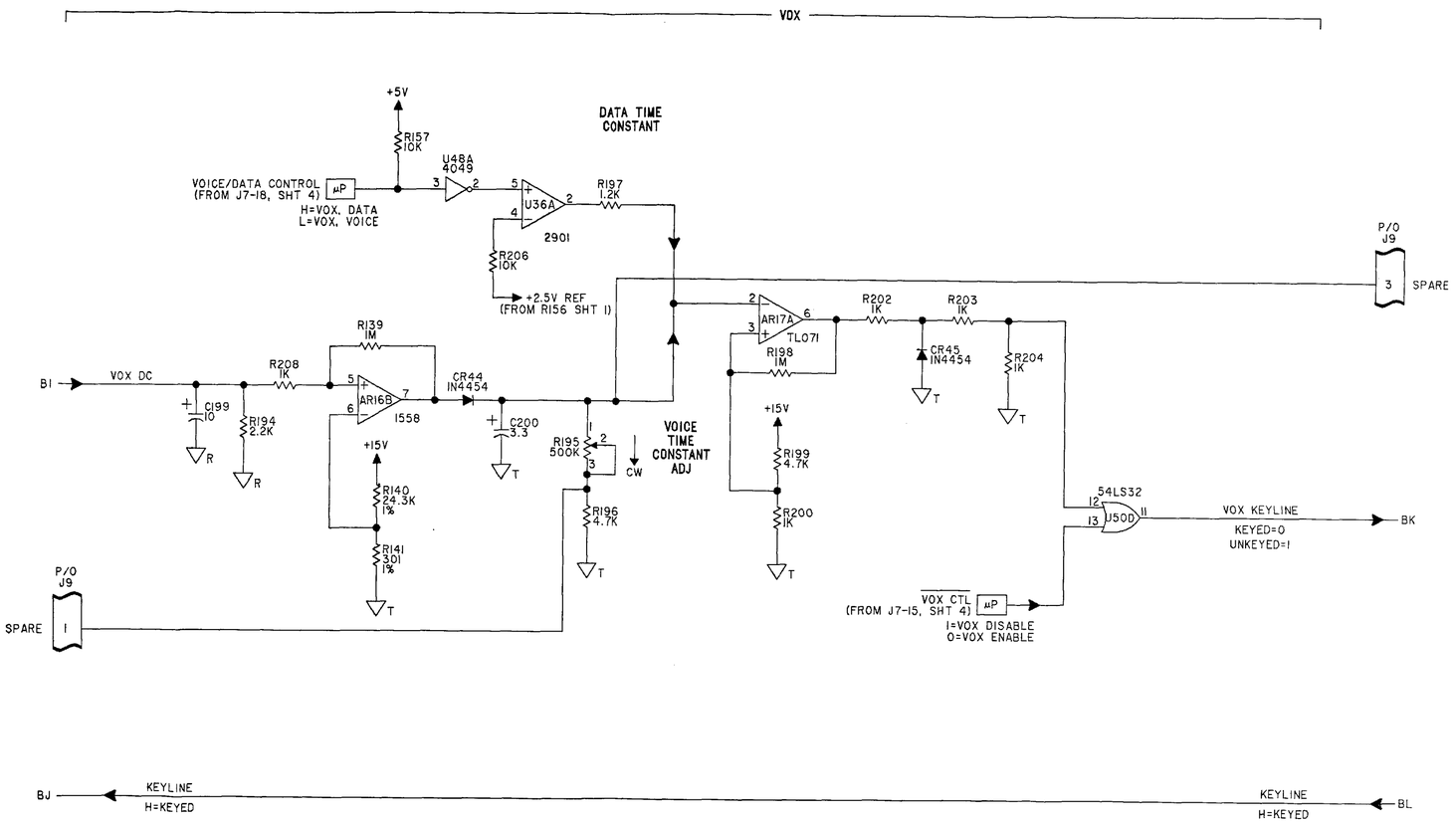
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 12 of 19)



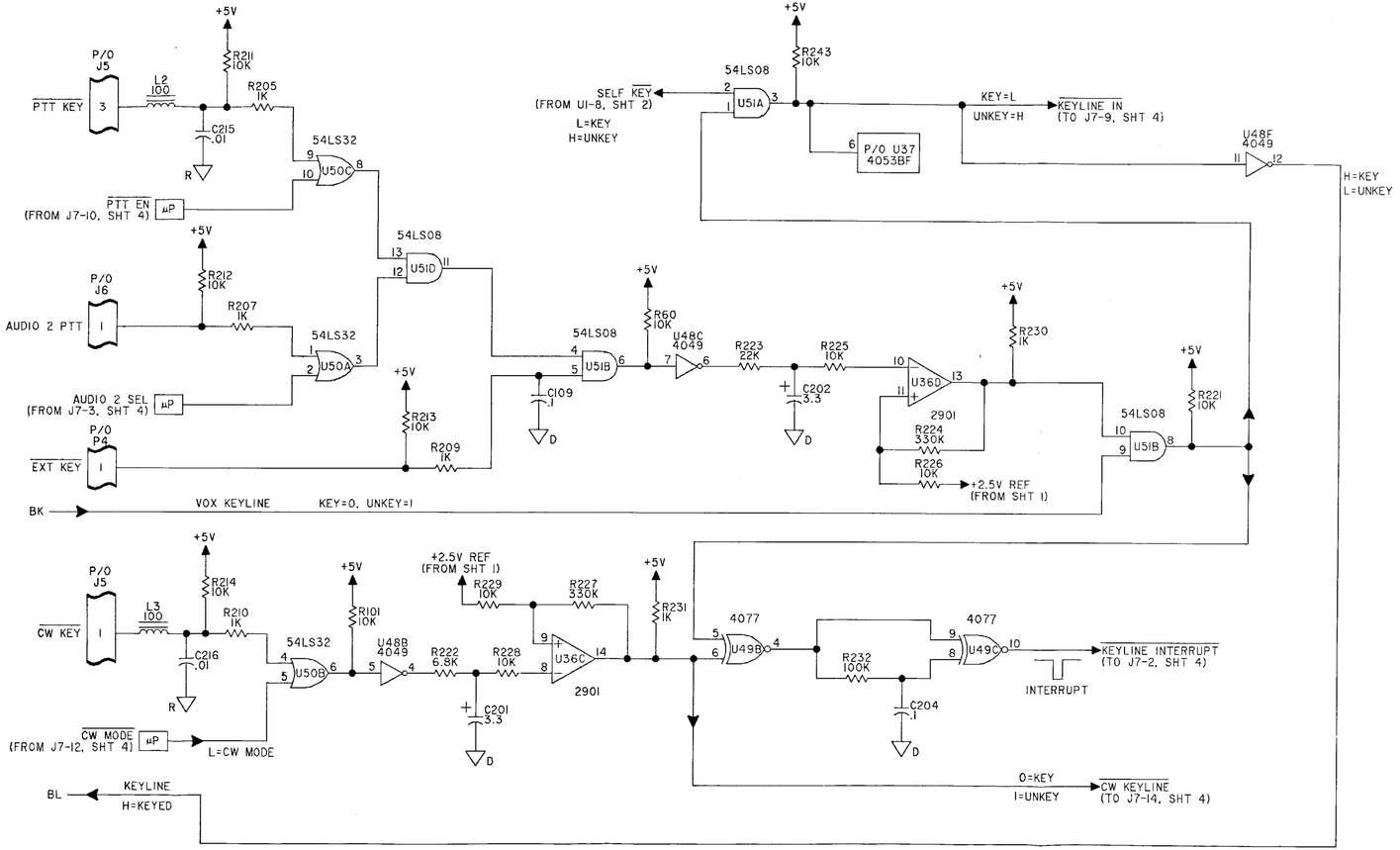
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 13 of 19)



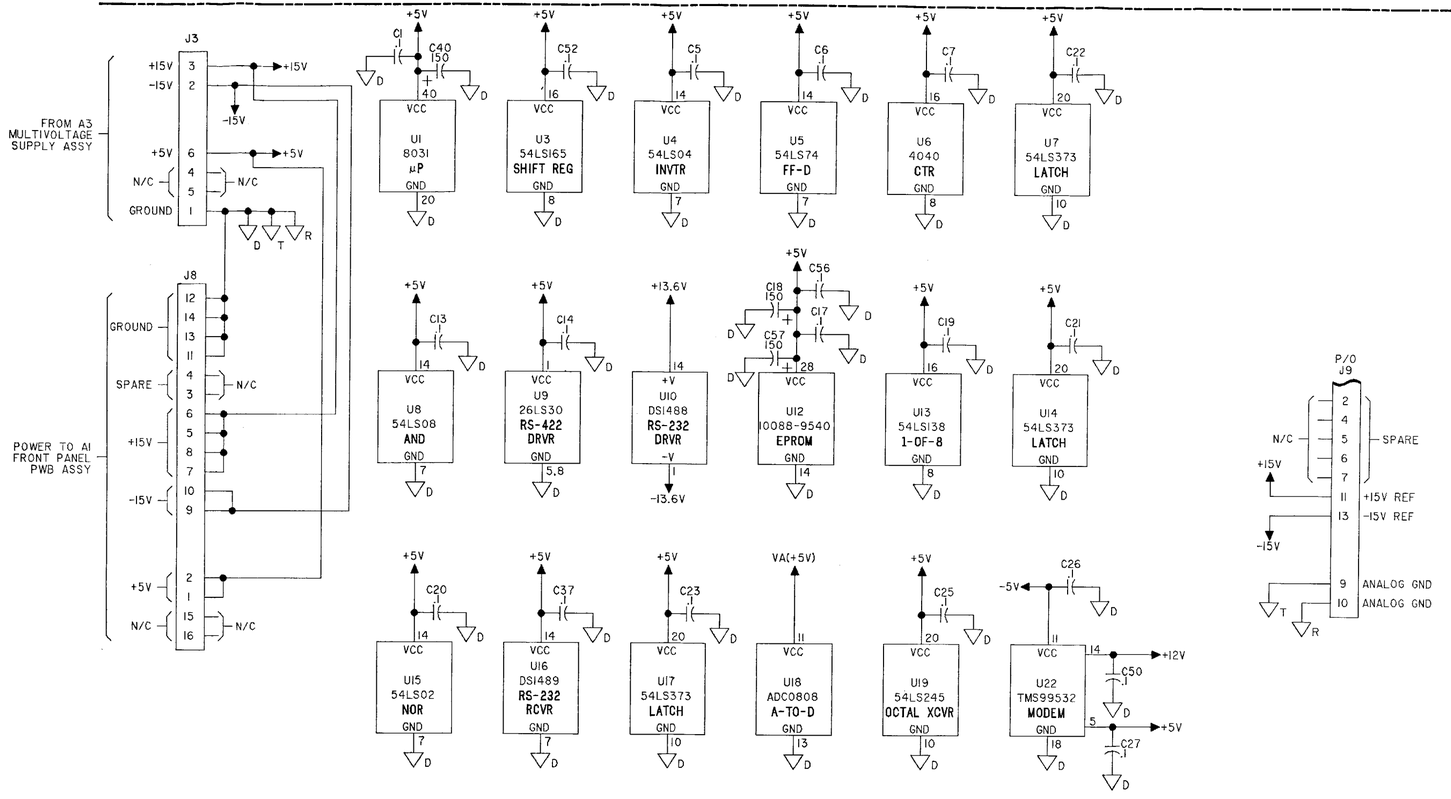
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 14 of 19)



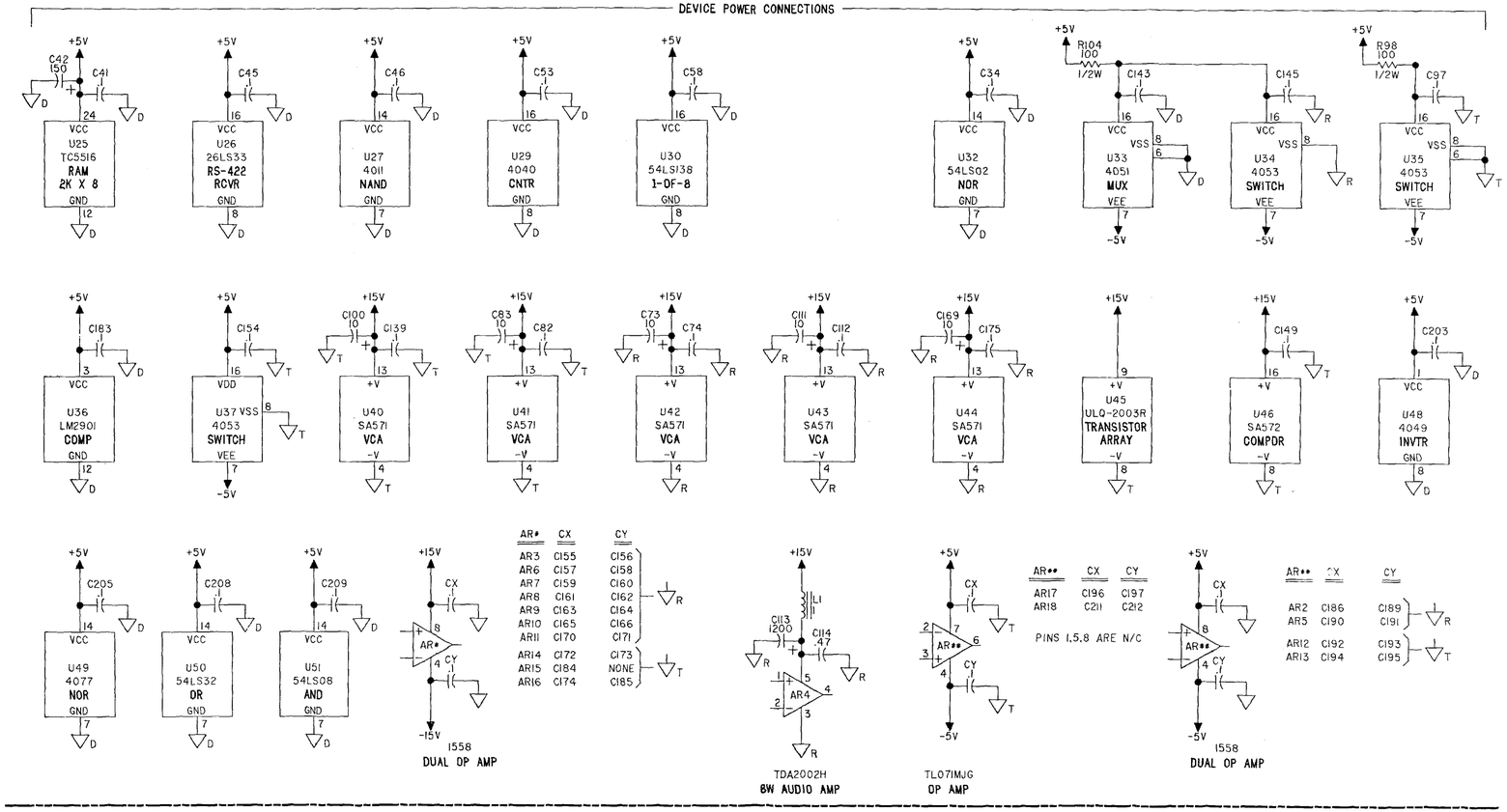
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 15 of 19)



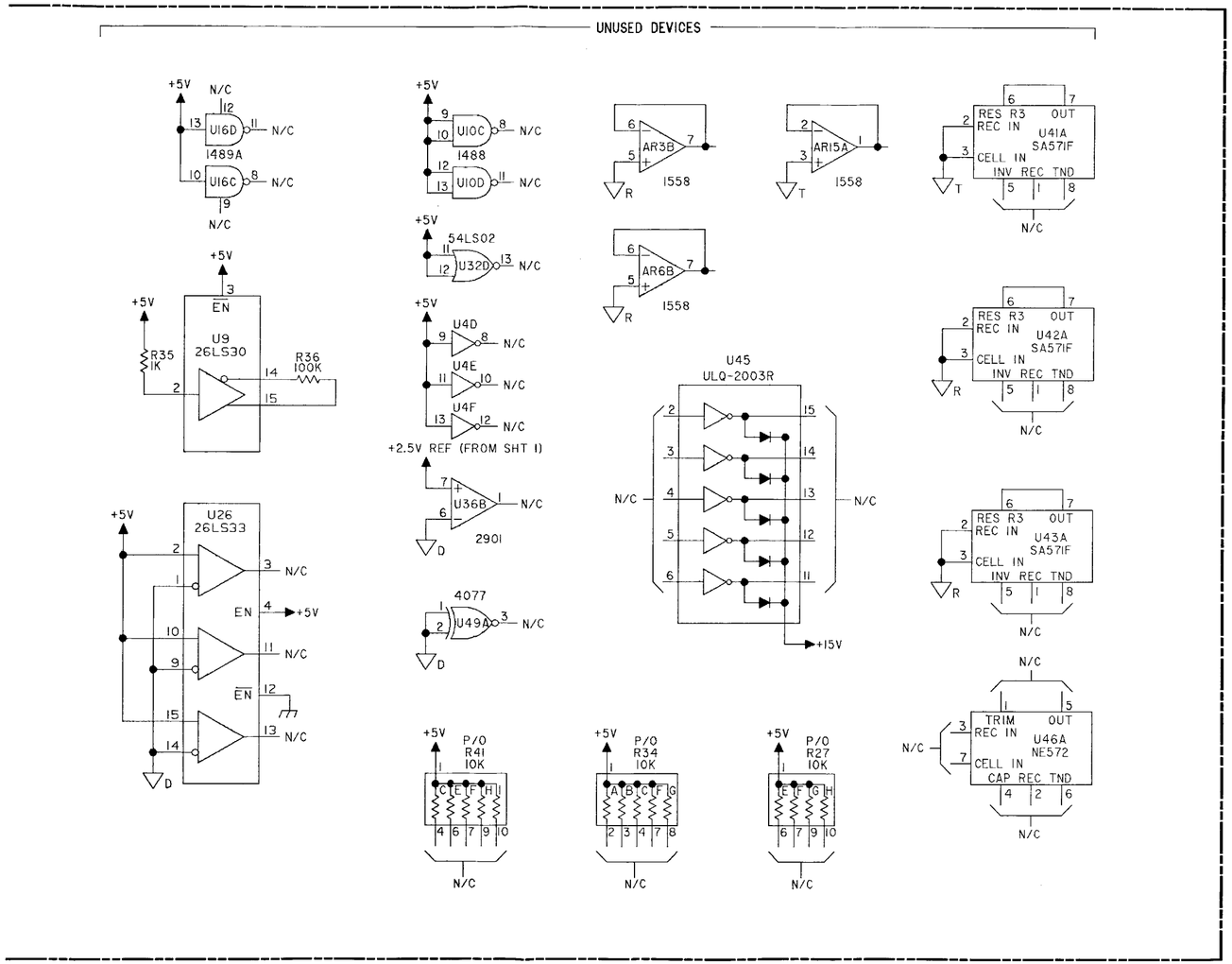
FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 16 of 19)



FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 17 of 19)



FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 18 of 19)

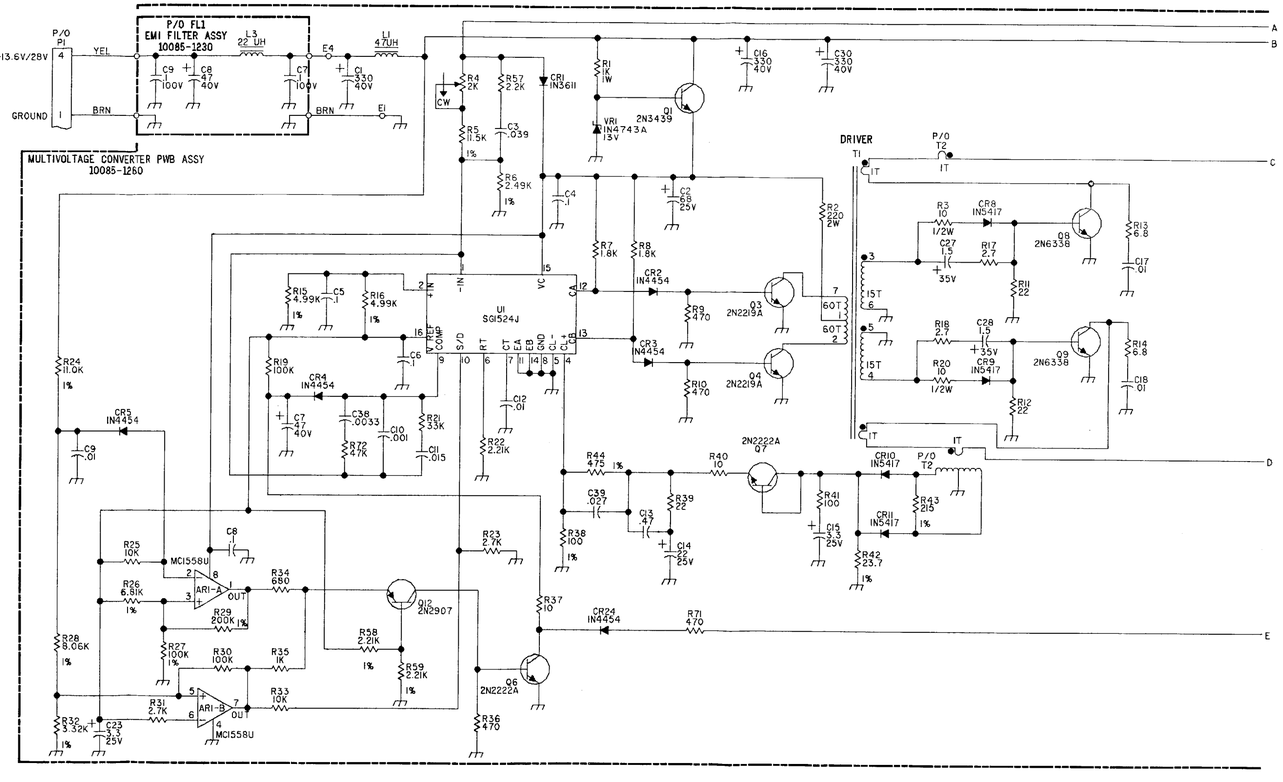


FO-6. Audio/Microprocessor PWB Assy, A2 (Sheet 19 of 19)

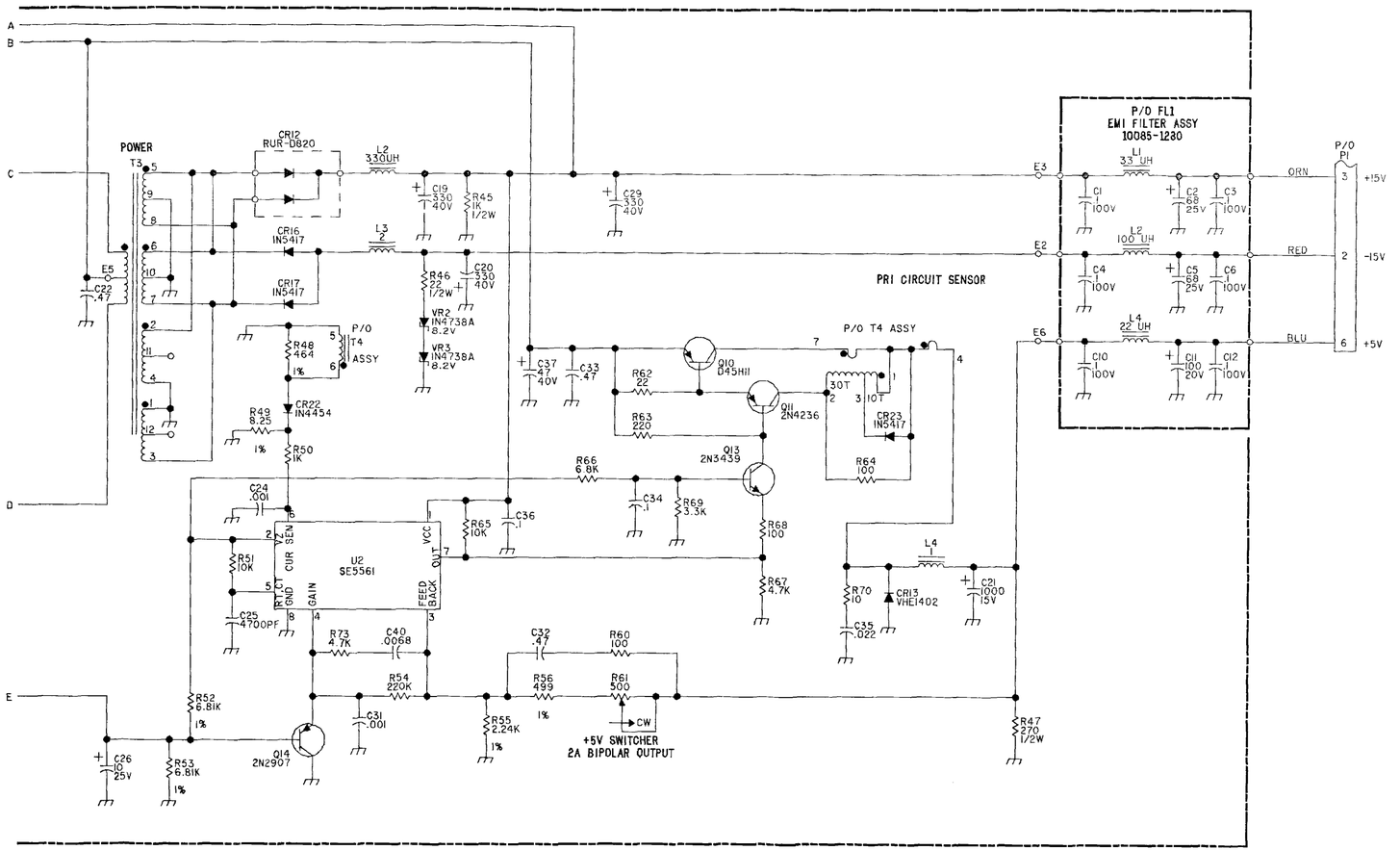
NOTE: UNLESS OTHERWISE SPECIFIED:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR DETAIL PARTS. PREFIX THESE WITH UNIT NO. AND/OR ASSEMBLY DESIGNATIONS SHOWN ON DRAWING TO OBTAIN COMPLETE DESIGNATIONS.
2. ALL RESISTOR VALUES ARE IN OHMS, 1/4W, ±5%.
3. ALL CAPACITOR VALUES ARE IN MICROFARADS (μF).
4. ALL INDUCTANCE VALUES ARE IN MICROHENRIES (μH).
5. VENDOR PART NO. CALLOUTS ARE FOR REFERENCE ONLY. COMPONENTS ARE SUPPLIED PER PART NO. IN PARTS LIST.
6. DC RESISTANCES OF INDUCTIVE ELEMENTS (CHOKES, COILS, MOTOR WINDINGS, ETC.,) ARE LESS THAN 1 OHM.
7. PANEL DECALS ARE INDICATED BY BOLD TYPE IN A BOLD BOX, E.G., **ON/OFF** .
8. ALL RELAYS ARE SHOWN IN THE DE-ENERGIZED STATE.

HIGHEST REFERENCE DESIGNATION
REFERENCE DESIGNATIONS NOT USED



FO-7. Multivoltage Supply PWB Assy, A3A1 (Sheet 1 of 2)



FO-7. Multivoltage Supply PWB Assy, A3A1 (Sheet 2 of 2)

NOTE: UNLESS OTHERWISE SPECIFIED:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR DETAIL PARTS. PREFIX THESE WITH UNIT NO. AND/OR ASSEMBLY DESIGNATIONS SHOWN ON DRAWING TO OBTAIN COMPLETE DESIGNATIONS.
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4. ALL INDUCTANCE VALUES ARE IN MICRPOENRIES (Mμ).
5. VENDOR PART NO. CALLOUTS ARE FOR REFERENCE ONLY. COMPONENTS ARE SUPPLIED PER PART NO. IN PARTS LIST.
6. DC RESISTANCES OF INDUCTIVE ELEMENTS (CHOKES, COILS, MOTOR WINDINGS, ETC.,) ARE LESS THAN 1 OHM.
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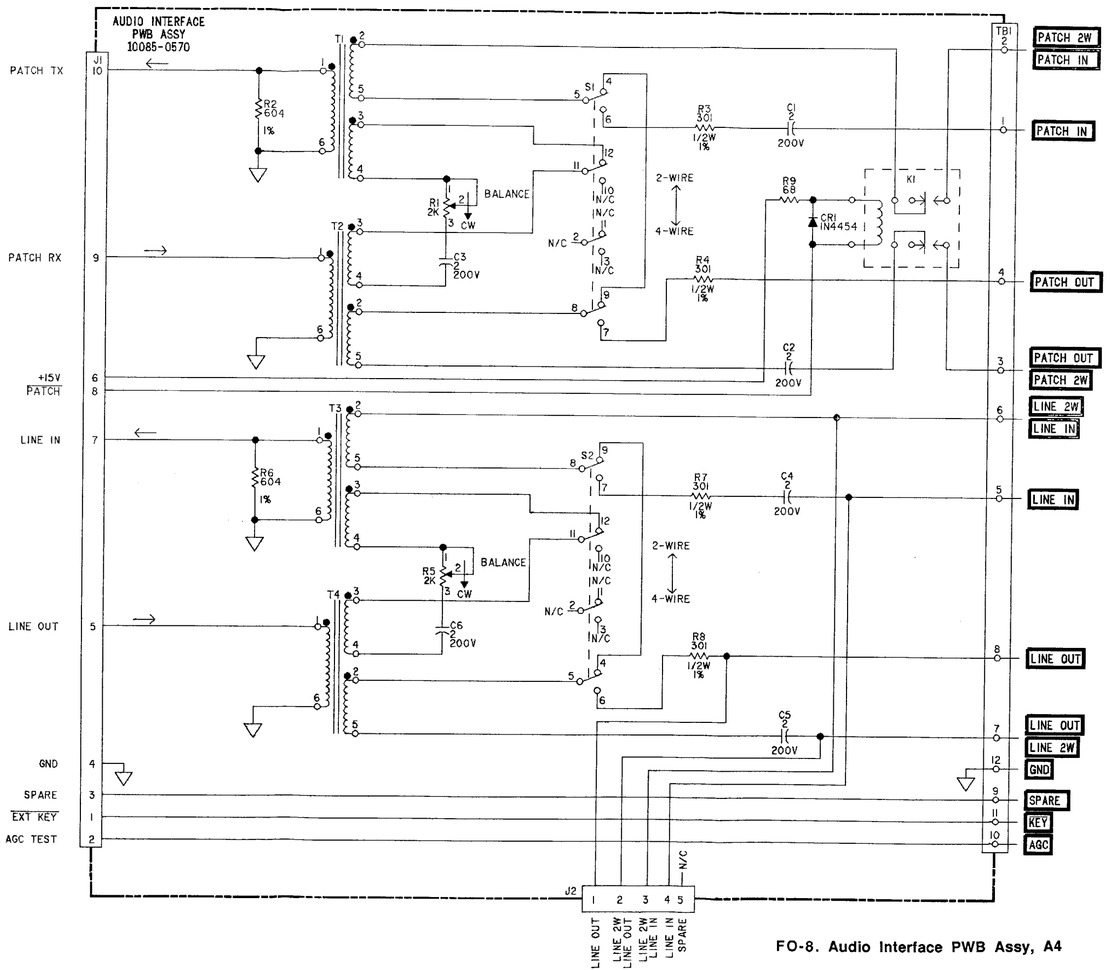
8. ALL RELAYS ARE SHOWN IN THE DE-ENERGIZED STATE.

HIGHEST REFERENCE DESIGNATION				
REFERENCE DESIGNATIONS NOT USED				



FO-8. Audio Interface PWB Assy, A4

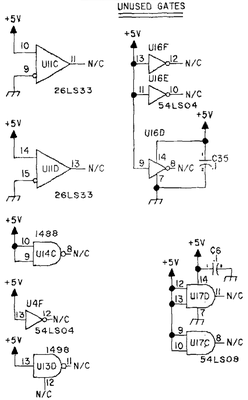
NOTE: UNLESS OTHERWISE SPECIFIED:

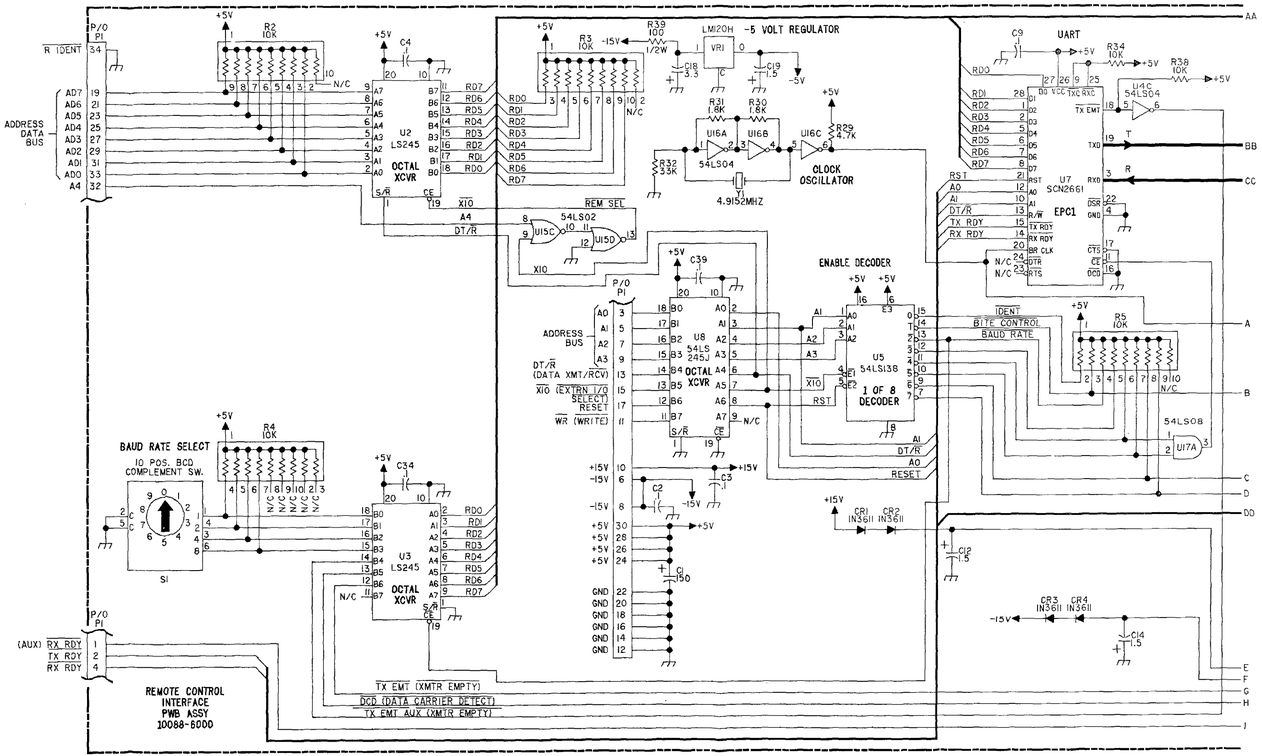
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR DETAIL PARTS. PREFIX THESE WITH UNIT NO. AND/OR ASSEMBLY DESIGNATIONS SHOWN ON DRAWING TO OBTAIN COMPLETE DESIGNATIONS.
2. ALL RESISTOR VALUES ARE IN OHMS, 1/4W, ±5%.
3. ALL CAPACITOR VALUES ARE IN MICROFARADS (μF).
4. ALL INDUCTANCE VALUES ARE IN MICROHENRIES (μH).
5. VENDOR PART NO. CALLOUTS ARE FOR REFERENCE ONLY. COMPONENTS ARE SUPPLIED PER PART NO. IN PARTS LIST.
6. DC RESISTANCES OF INDUCTIVE ELEMENTS (CHOKES, COILS, MOTOR WINDINGS, ETC.) ARE LESS THAN 1 OHM.
7. PANEL DECALS ARE INDICATED BY BOLD TYPE IN A BOLD BOX, E.G., **ON/OFF**
8. ALL RELAYS ARE SHOWN IN THE DE-ENERGIZED STATE.

HIGHEST REFERENCE DESIGNATION

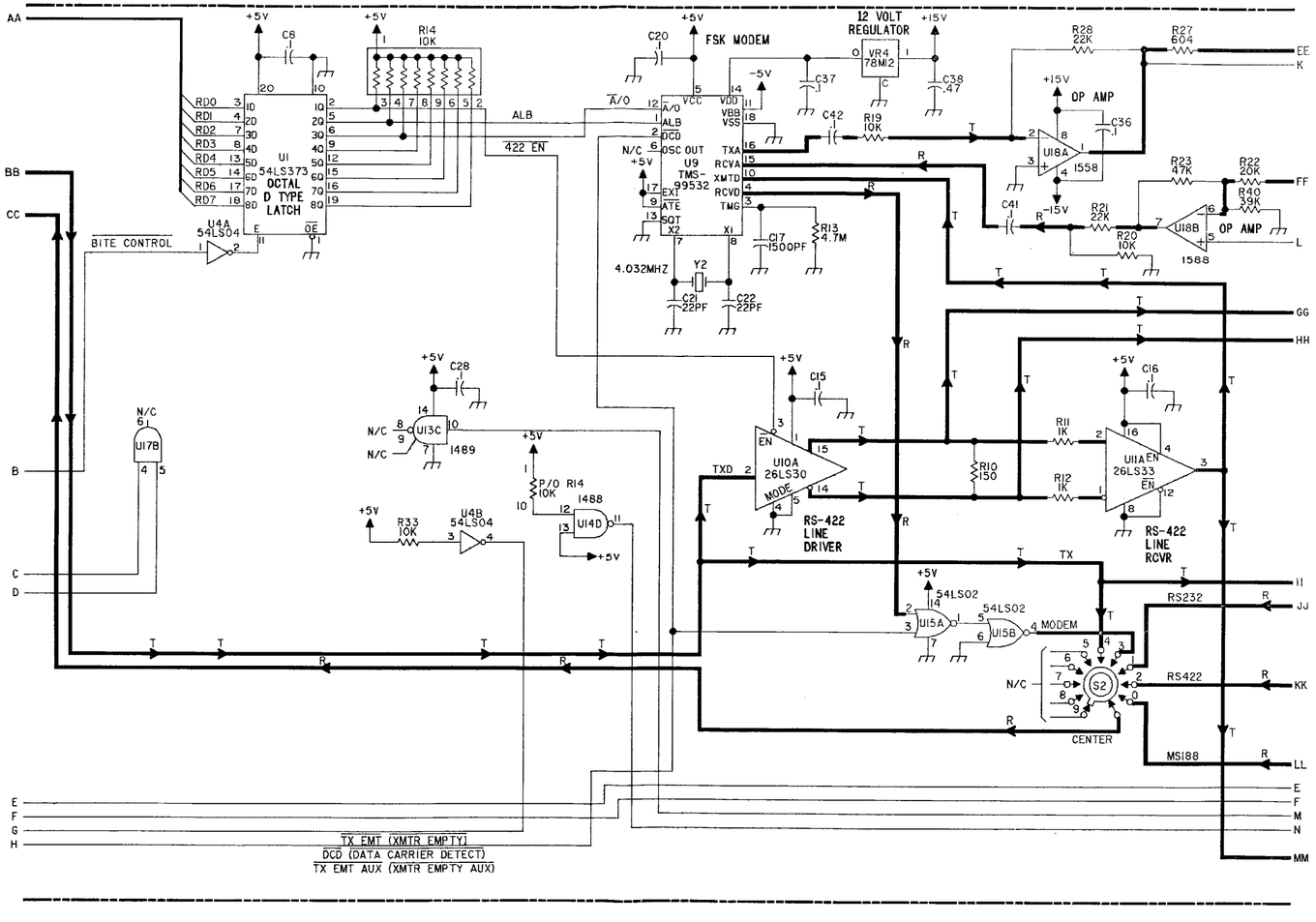
REFERENCE DESIGNATIONS NOT USED

UNUSED GATES

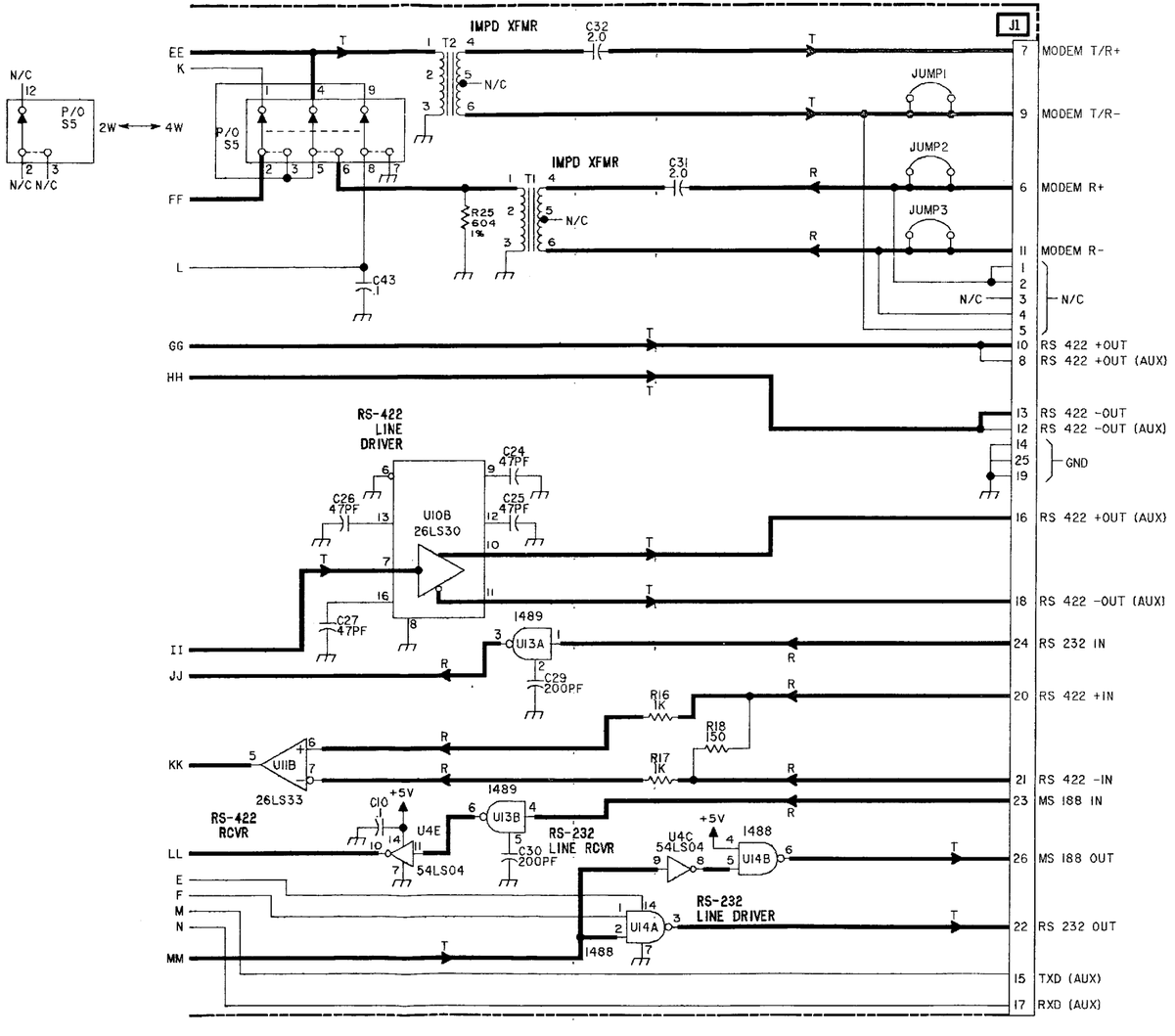




FO-9. Remote Control Interface PWB Assy, A1A19 (in Transceiver) (Sheet 1 of 3)



FO-9. Remote Control Interface PWB Assy, A1A19 (in Transceiver) (Sheet 2 of 3)



FO-9. Remote Control Interface PWB Assy, A1A19 (in Transceiver) (Sheet 3 of 3)