TECHNICAL MANUAL

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

FOR

RECEIVER SET R-2197/MLQ-34

PART NUMBER 5051640-1

NSN 5865-01-109-1679

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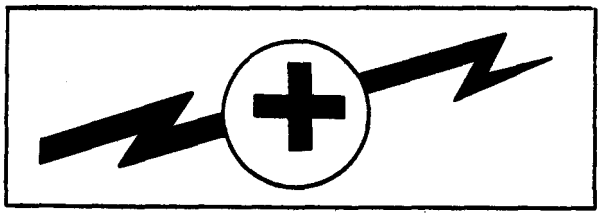
HEADQUARTERS, DEPARTMENT OF THE ARMY

FEBRUARY 1985

WARNING



WARNING

HIGH VOLTAGE

is used in the operation of this equipment

DEATH ON CONTACT

may result if personnel fail to observe safety precautions

Never work on electronic equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment and who is competent in administering first aid. When the technician is aided by operators, he must warn them about dangerous areas.

Whenever possible, the power supply to the equipment must be shut off before beginning work on the equipment. Take particular care to ground every capacitor likely to hold a dangerous potential. When working inside the equipment, after the power has been turned off, always ground every part before touching it.

Be careful not to contact high-voltage connections of 115 volt ac input connection when installing or operating this equipment.

Whenever the nature of the operation permits, keep one hand away from the equipment to reduce the hazard of current flowing through vital organs of the body.

WARNING: Do not be misled by the term "low voltage." potentials as low as 50 volts may cause death under adverse conditions.

For Artificial Respiration, refer to FM 21-11, First Aid for Soldiers.

CHANGE NO. 2

HEADQUARTERS
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WASHINGTON, D. C., 28 September 1990

ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR RECEIVER SET R-2197/MLQ-34 PART NUMBER 5051640-1 NSN 5865-01-109-1679

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5-9 and 5-10	5-9 and 5-10
5-15 and 5-16	5-15 and 5-16
5-29 through 5-34	5-29 through 5-34
	5-46.1 through 5-46.14
5-87 and 5-88	5-87 and 5-88
5-1O1 and 5-102	5-101 and 5-102
B-11 and B-12	B-11 and B-12
C-4.1 and C-4.2	C-4.1 and C-4.2
C-5 through C-18	C-5 through C-18
C-21/(C-22 blank)	C-21/(C-22 blank)
C-23 and C-24	C-23 and C-24
C-35 and C-36	C-35 and C-36
	C-38.1 through C-38.4
C-39 and C-40/(C-41 blank)	C-39 and C-40 (C-41 b lank) /C-42
C-43 through C-50	C-43 through C-50
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FO-1 (Sheet 7 of 7)	F0-1 (Sheet 7 of 7)
	F0-5 (Sheet 1 of 2)
	F0-5 (Sheet 2 of 2)

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CHANGE
NO. 1

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C-3 through C-10	C-3 through C-10
C-12 through C-36	C-13 through C-36
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FO-1 (Sheet 2 of 6)	FO-1 (Sheet 2 of 7)
FO-1 (Sheet 3 of 6)	FO-1 (Sheet 3 of 7)
FO-1 (Sheet 4 of 6)	FO-1 (Sheet 4 of 7)
FO-1 (Sheet 5 of 6)	FO-1 (Sheet 5 of 7)
FO-1 (Sheet 6 of 6)	FO-1 (Sheet 6 of 7)
	FO-1 (Sheet 7 of 7)

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Page No.	*Change No.	Page No.	*Change No.
Title	1	C-13 - C-17	1
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i - iii	0	C-19 - C-21	1
1 - 0	0	C-22 blank	0
1-1 - 1-4	0	C-23	1
2-1 - 2-5	0	C-24	0
2-6 blank	0	C-25	1
3-1 - 4-1	0	C-26	0
4-2 blank	0	C-27	1
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5-17 - 5-18	1	C-30 - C-33	1
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5-58	1	C-35	0
5-59 - 5-60	0	C-40	1
5-61	1	C-41 blank	0
5-62 - 5-63	0	C-42 - C-43	0
5-64	1	C-44 - C-50	1
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5-67 - 5-69	1	Glossary-1	0
5-70 - 5-102	0	Glossary-2 blank	0
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B-1 - B-16	0	F0-1 (Sheet 2)	0
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C-4	1	F0-1 (Sheet 4)	0
C-4.1	0	F0-1 (Sheet 5)	0
C-4.2	1	F0-1 (Sheet 6)	0
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C-12	0		

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Organizational, Direct Support, and General Support Maintenance Manual
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
RECEIVER SET
R-2197/MLQ-34
NSN 5865-01-109-1679

LIST OF ILLUSTRATIONS

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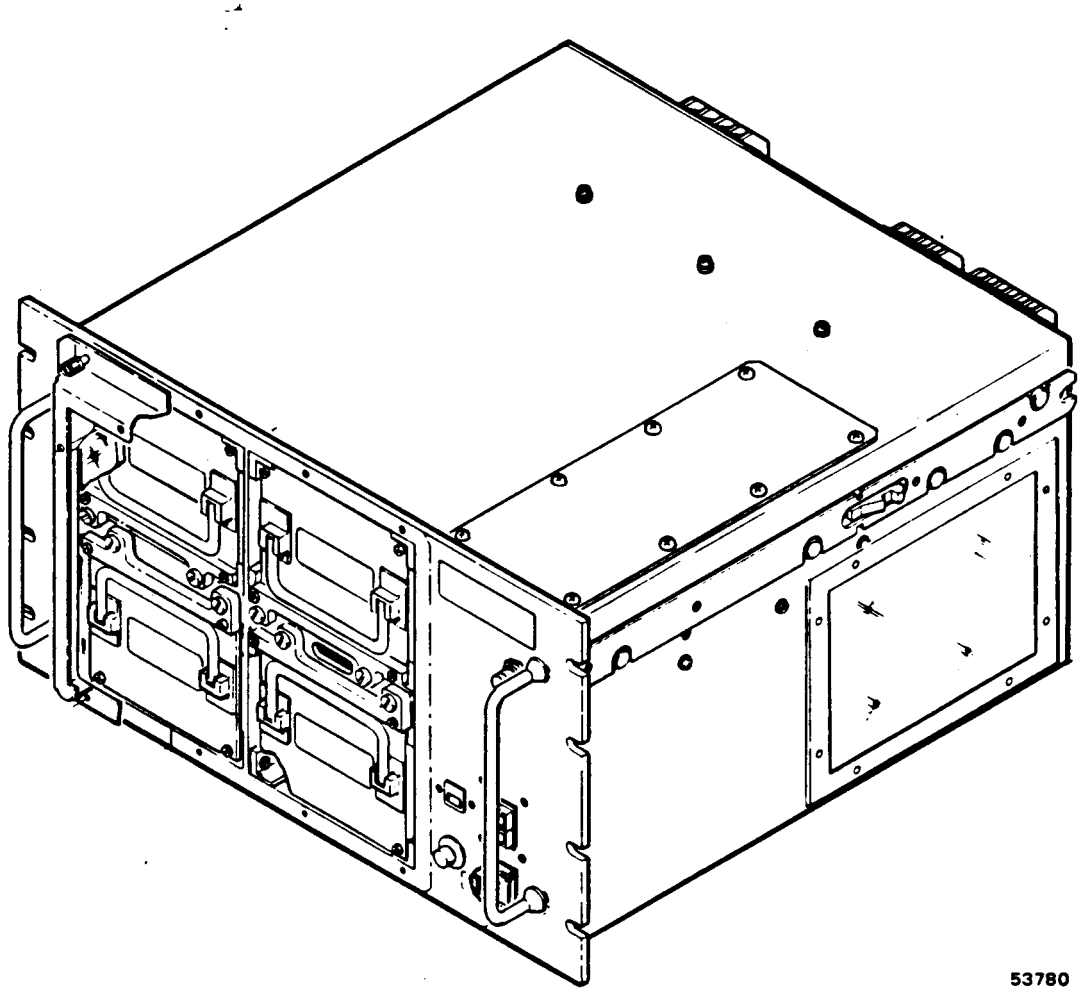


Figure 1-1. Receiver Set R-2197/MLQ-34

CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE. This technical manual provides organizational, direct, and general support maintenance information for the Receiver Set R-2197/MLQ-34 (shown in figure 1-1), referred to herein as the Receiver Set. A functional description of the Receiver Set and its circuit card assemblies is provided. Referenced publications are listed in Appendix A. Appendix B contains the Maintenance Allocation Chart (MAC). The Repair Parts and Special Tools (RPSTL) is provided in Appendix C. Appendix D is a list of expendable supplies and materials. Non-standard terms and abbreviations are defined in the Glossary. An Index is provided. Operating instructions for the Receiver Set are provided in TM 32-5865-060-10, Countermeasures Set, Special Purpose AN/MLQ-34 (System Operator's Manual).

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

1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE. Procedures for destroying Army materiel are described in TM 750-244-2, Procedures for Destruction of Army Materiel to Prevent Enemy Use (Electronics Command).

1-4. ADMINISTRATIVE STORAGE. The administrative storage requirements are described in TM-740-90-1, Administration Storage.

1-5. CALIBRATION. Not applicable.

1-6. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR). EIR's will be Prepared using SF 368, Quality Deficiency Report (QDR). Instructions for preparing EIR's are provided in TM 38-750, TAMMS. EIR's should be mailed directly to Commander, U.S. Army Electronics Readiness Activity, ATTN: SELEM-ME-F, Vint Hill Farms Station, Warrenton, VA 22186. A reply will be furnished directly to you.

1-7. REPORTING OF ERRORS. The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. eports should be submitted on DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 located in the back of the manual and forwarded direct to Commander US Army Electronics Materiel Readiness Activity, ATTN: SELEM-ME-E, Vint Hill Farms Station, Warrenton, VA 22186-5141.

Section II. DESCRIPTION AND DATA

1-8. DESCRIPTION. A single Receiver Set is used in each AN/MLQ-34 system providing physical and electrical support for four R-2144A/URR receivers. The unit receives radio frequency and control signals from the AN/MLQ-34 system, transforms the RF into IF and audio signals, and provides these signals to the system for distribution. Also provided are; the system 5 MHz reference clock signals, and the buffered first local oscillator (LO) output of each receiver. For further description of the unit refer to TM 32-5865-060-10, System Operator's Manual.

1-9. TABULATED DATA. Table 1-1 lists the technical characteristics of the Receiver Set.

Table 1-1. Tabulated Data

Characteristics	Specification
Signal Inputs	
Serial RC Bus A, Control Data Clock and Strobe	Data format as described in fi gure 3-2
Data Rate	250 kHz
Input Levels	Differential Voltage Logic (Note)
RF Signal Input	
Frequency	20-500 MHz (Receiver R-2144A/URR)
Impedance	50 ohms (Nominal)
VSWR	3:1 (20-500 MHz)
Pulse Blanking Input	
Level/Function	When the receiver control word external blank enable bit (bit 40) is high (Logic 1), a Logic "1" (2.4 to 5.0V) signal will cause the receiver to be blanked, a logic "0" (0 to 0.8V) will cause the receiver to be unblanked.
Impedance	50 ohms (Nominal)

Table 1-1. Tabulated Data - Continued

Characteristics	Specification
Signal Outputs	
5 MHz REF OUTPUT	
Frequency	Over temperature range of minus -25 degrees to plus 126 degrees Fahrenheit (-32 to +52 degrees Celsius).
Level	0 dBm ± 2 dB
Impedance	50 ohms (Nominal)
5 MHz REF OSC	
Frequency/Accuracy	As for 5 MHz REF OUTPUT
Level	Sine wave, 2.5V peak-to-peak (min.) across 125 to 250 ohms, differential.
Fault Status Signals	Fault status indicated by contact closures. Normal condition-contacts closed. Fault condition-contacts open.
Temperature	Temperature in excess of 155 degrees Fahrenheit (68 degrees Celsius) at the monitor point.
Power Supplies	One or more power supply voltages absent.
Enclosure	Differential Voltage Logic (Note). Logic “1” output indicates fault condition (over temperature + power supply failure + reference oscillator failure)
Power Requirements	
Input Voltage	115 Vac ± 5%
Frequency	400 Hz ± 20 Hz
Phases	Single phase, 3 wire

Table 1-1. Tabulated Data - Continued

Characteristics	Specification
Physical Characteristics	
Weight	59 Lbs
Width	19 inches
Depth	17 inches
Height (Front Panel)	10 3/4 inches
Temperature Range	
Operating	-25 to +120 degrees Fahrenheit (-32 to +49 degrees Celsius)
Non Operating	-65 to +160 degrees Fahrenheit (-54 to +71 degrees Celsius)
Altitude	
Operational	Up to 10,000 feet above sea level.
Transportation	Up to 50,000 feet above sea level.
Humidity	Maximum 95%, with ambient temperature 120 degrees Fahrenheit

NOTE

Differential Voltage Logic (balanced line) with respect to the minus input:	
Logic '1'	Plus input is 2.0 to 5.5V dc Simultaneously the minus input is 0 to 0.4V dc (Common mode input voltage may be plus or minus 15V dc)
Logic '0'	Plus input is 0 to 0.4V dc Simultaneously the minus input is 2.0 to 5.5V dc (Common mode input voltage may be plus or minus 15V dc)

CHAPTER 2

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

2-1 SCOPE. This chapter provides the information for the performance of organizational maintenance defined by the Maintenance Allocation Chart (MAC).

Section I. TOOLS AND EQUIPMENT

2-2. TOOLS AND EQUIPMENT. Refer to the MAC in Appendix B and to the Repair Parts and Special Tools List (RPSTL) in Appendix C.

Section II. REPAINTING AND REFINISHING INSTRUCTIONS

2-3. REPAINTING AND REFINISHING INSTRUCTIONS. For touch up painting instructions, refer to the applicable cleaning and refinishing practices specified in TB 43-0118, Field Instructions for Painting and Preserving Electronics Command Equipment including Camouflage Pattern Painting of Electrical Equipment Shelters. Surfaces which are exposed when the Receiver Set is mounted in the AN/MLQ-34 system will be painted Color No. 24410. Refer to Appendix D for details of the materials to be used.

Section III. LUBRICATION INSTRUCTIONS

NOTE

Lubrication is not required.

Section IV. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

2-4. GENERAL. Preventive Maintenance Checks and Services (PMCS) are essential to the efficient operation of the Receiver Set. PMCS will aid in discovering and correcting defects before they result in serious malfunctions. The checks and services are listed in table 2-1. PMCS shall be accomplished in accordance with the following:

a. If the equipment fails to operate, refer to para 2-5.

b. Report any defects using the proper forms. Refer to TM 38-750 (TAMMS).

Table 2-1. Organizational Preventive Maintenance Checks and Services Monthly Schedule

NOTE

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

Item No.	Item to be inspected	Procedures	Equipment will be reported not ready (Red) if:
		WARNING **Ensure power source is disconnected before removing the unit from the rack. Refer to TM 32-5865-060-10 for system shutdown procedure. HIGH VOLTAGE may be present at the connector connected to J22. This HIGH VOLTAGE could cause death.**	
1	Front Panel	Check operation of all lamps with the LAMP TEST switch. Replace as necessary, refer to paragraph 2-7.4. Check for accumulation of dirt and grease. Clean as necessary, refer to paragraph 2-7.2. Check that all hardware is secure.	Lamp test does not function. Serviceable lamps do not light. Hardware cannot be secured.
2	Receiver Set	Withdraw the unit on its runners. Check for evidence of water, corrosion and damaged components. Clean as necessary. For component damage inform Direct Support Maintenance Unit.	Damage affects operation.
3	Filter (inlet)	Unfasten the four captive screws securing the filter frame. Lower the frame and lift out the filter. Clean the filter, refer to paragraph 2-7.2. Refit filter into position under the spring clip. Raise the filter frame and secure.	

Table 2-1. Organizational Preventive Maintenance Checks and Services Monthly Schedule - Continued

Item No.	Item to be inspected	Procedures	Equipment will be reported not ready (Red) if:
4	Filter (outlet)	Withdraw the unit from the rack on the runners. Locate the filter at the right hand side at the rear. Using a screwdriver, remove and retain the eight screws securing the filter in position. Clean the filter, refer to para 2-7.2. Refit the filter and secure using the eight screws retained above. Replace the unit in the rack and secure.	

Section V. TROUBLESHOOTING

2-5. TROUBLESHOOTING. Troubleshooting consists of performing the system BITE test. When the symptom is identified as a faulty Receiver Set inform Direct Support (DS). Refer to TM 32-5865-060-10 for the BITE procedure. Troubleshooting allocated to General Support (GS) shall be in accordance with the MAC.

Section VI. MAINTENANCE OF RECEIVER SET

2-6. SCOPE. This section describes the tasks allocated to organizational maintenance personnel by the MAC. These tasks are accomplished without dismantling the unit.

2-7. MAINTENANCE OF RECEIVER SET. The maintenance of the Receiver Set is limited to the tasks detailed in this paragraph. If the Receiver Set is found to be faulty, inform DS.

2-7.1 Inspection. Inspect the Receiver Set as follows:

a. Inspect for accumulations of dust, grease, and for damage to paint work.

b. Check that external components are secure and undamaged. For damaged components report to D.S.

WARNING

Adequate ventilation should be provided while using TRICHLOROTRIFLUOROETHANE. Prolonged breathing of vapor should be avoided. The solvent should not be used near heat or open flame; the products of decomposition are toxic and irritating. Since TRICHLOROTRIFLUOROETHANE dissolves natural oils, prolonged contact with skin should be avoided. When necessary, use gloves which the solvent cannot penetrate. If the solvent is taken internally, consult a physician immediately.

2-7.2 Cleaning. The exterior of the unit should be free of dirt, dust, grease, moisture, fungus, rust and corrosion. Clean as follows:

a. Remove dust, dirt, and moisture with a clean soft cloth.

b. Remove grease, fungus and ground-in dirt from equipment covers using a cloth dampened (but not wet) with trichlorotrifluoroethane available as Freon type TF, NSN 6850-00-105-3084.

c. Remove dust and dirt from plugs and jacks with a brush.

d. Clean air filters using a stiff brush.

2-7.3 Test. Test the unit using the system BITE test. Refer to the System Operator's manual TM 32-5865-060-10, for the BITE procedure.

2-7.4 Lamp Replacement. When necessary, replace front panel indicator lamps as follows:

a. Using a small flat-tip screwdriver in the groove at the top of the lamp-holder, gently remove the lamp-holder.

b. Insert the tip of the screwdriver under the lip of the defective lamp.

c. Lift the lamp from its holder.

d. Insert a serviceable lamp into the holder and press down until seated.

e. Re-insert the lamp-holder into the body of the assembly and gently press down. The indicator will lock into place.

2-7.5 Filter Removal. To remove the filter located on the right hand side of the chassis, perform the following:

CAUTION

An RFI gasket is fitted to the assembly. Ensure the gasket is undamaged and seats correctly when the filter is replaced.

a. Remove and retain eight screws securing the filter to the chassis.

b. Remove filter from the chassis.

c. To install a replacement filter reverse steps a. thru b. above.

CHAPTER 3

FUNCTIONING OF EQUIPMENT

‘ **3-1. SCOPE.** This chapter provides a functional description of the Receiver Set and its circuit card assemblies/modules to the level required for the support of units tested by the AN/USM-410. The functional descriptions are keyed to functional block diagrams. Refer to System Maintenance Manual TM 32-5865-060-24&P for detailed system interface description.

3-2. RECEIVER SET FUNCTIONAL DESCRIPTION. Refer to figure 3-1, a functional block diagram of the Receiver Set. The Receiver Set provides the physical and electrical support requirements of the R-2144A/URR receivers used in the AN/MLQ-34 system. The unit can house from one to four of these receivers. With receivers installed, the unit receives RF and control signals from the system. The RF signals are processed by the receivers and transformed to IF and audio signals. The unit also provides; 5 MHz reference clock signals, buffered first local oscillator (LO) signals and unit fault status information. The receivers are digitally tuned and controlled using the data from the serial RC Bus. Figure 3-2 describes the RC Bus data format. Filter Assembly A10 is used to prevent transfer of RF to signal and control lines. These functions are described in the following subparagraphs.

3-2.1 Input Signals. A single receiver control bus (RC Bus) controls all four receivers. The RC bus provides DATA, CLOCK, and STROBE signals. These are jumpered through A9. This is to allow for a separate control source for receiver 1 should this be required. Each receiver requires a 6-bit address input. The location of a receiver within the Receiver Set is determined by the three low order bits of the address hard wired at the rear connector. The three high order bits, (Receiver Set address), are determined by signals which are part of the RC bus. RF signals are fed to each receiver. The 5 MHz reference oscillator, Y1, produces a 5 MHz clock signal. This signal is routed out, 5 MHz REF OUT, and back to the unit through a jumper to buffer amplifier A5. The reference signal is buffered and then applied to each receiver.

3-2.2 Receiver Output Signals. Each receiver provides the following signals which are interfaced to the system through connectors on the rear of the Receiver Set:

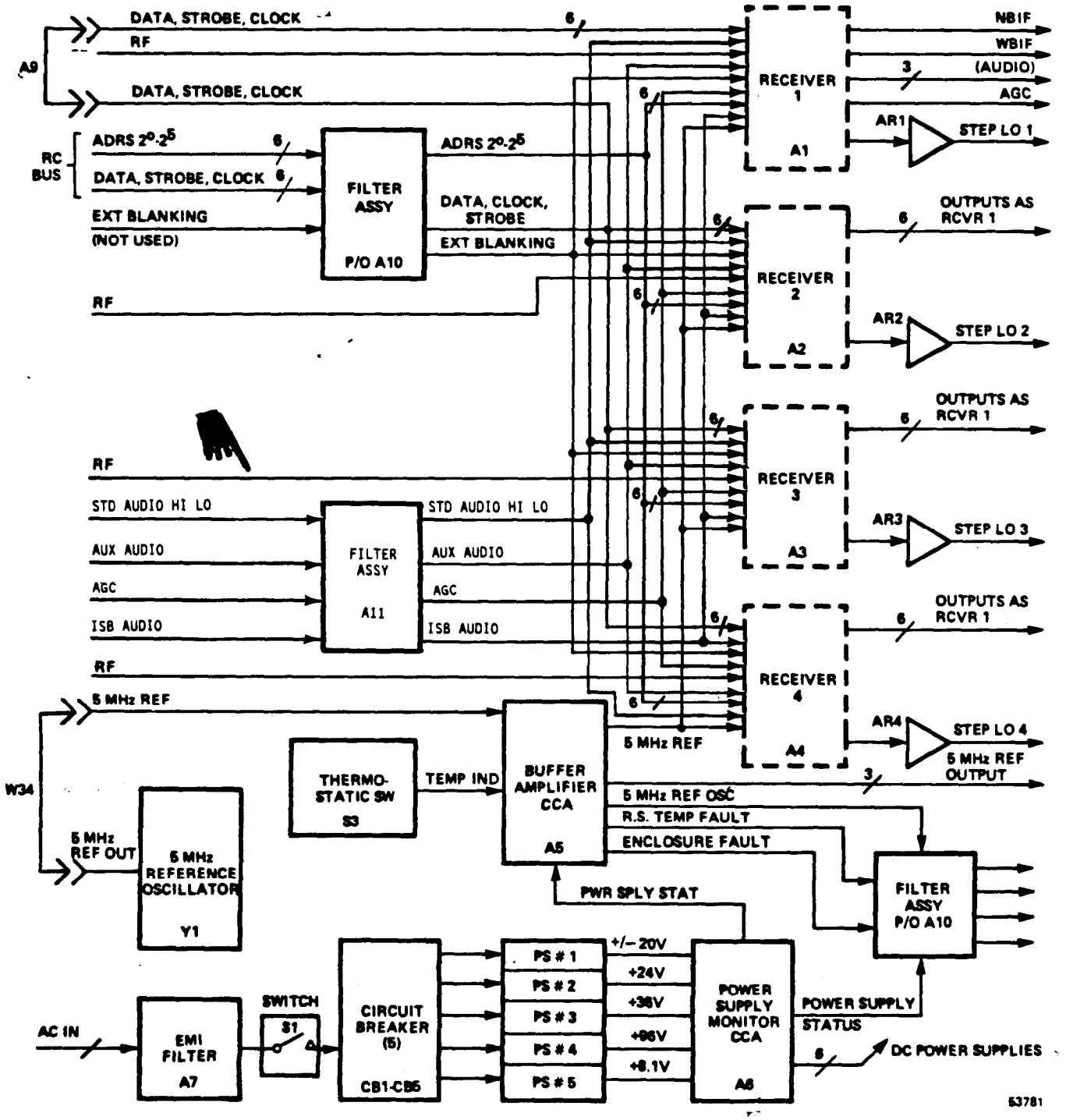
a. Wideband IF (WBIF)

b. Narrowband IF (NBIF)

c. AUDIO, standard and auxiliary

d. Analog automatic gain control (AGC)

e. First LO output (STEP LO). Solid state amplifiers, AR1 through AR4, buffer and amplify the signals from the receiver before they are output from the unit.



NOTE: FILTER ASSY INSTALLED ON SERIAL NOS. 143 AND ABOVE

Figure 3-1. Receiver Set, Functional Block Diagram

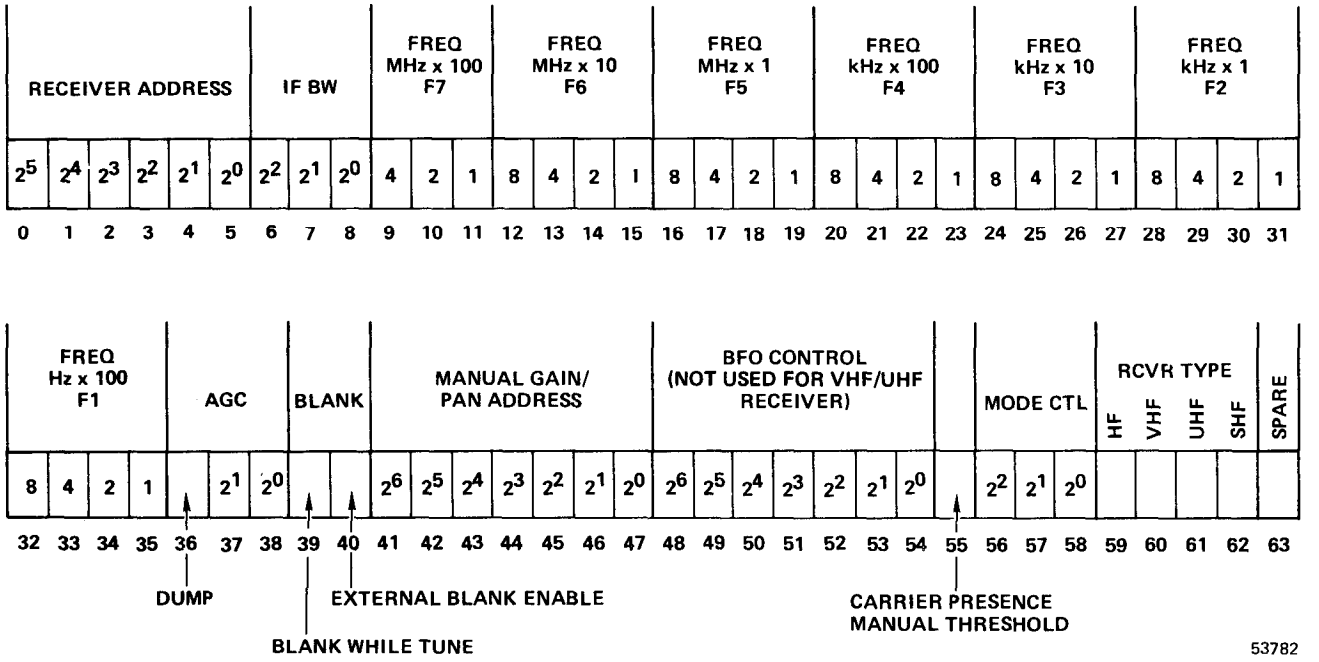


Figure 3-2. RC Bus Data Format

3-2.3 Reference and Status Signals. The buffer amplifier, CCA A5, produces four 5 MHz reference clock signals for system use. These signals are derived from the 5 MHz REF input to A5. Three unbalanced 50 ohm and one differential sine wave output are provided. A5 also provides temperature and enclosure fault status signals. Temperature status is obtained from a temperature sensor located inside the unit. When the measured temperature exceeds 155 degrees F (68 degrees C), the sensor contacts open to produce the TEMP IND signal. Power supply monitor, A6, produces two fault status signals when one or more of the supply voltages fail. One signal is provided as an output, the other is fed to A5. The ENCLOSURE FAULT status signal is produced by monitoring the 5 MHz REF, TEMP IND, and PWR SPLY STAT signal inputs. A fault condition results in the output of differential signal ENCLOSURE FAULT. Local indication of a fault condition is also provided (front panel lamps).

3-2.4 Power Distribution. The ac power to the Receiver Set is applied to the power supply modules and a cooling fan through EMI filter A7, the POWER ON/OFF switch SI, and circuit breakers CB1-CB5. The power supply modules are encapsulated and have built in regulation and over current protection circuits. The outputs of DC power supplies are fed to power supply monitor A6. A6 monitors the power supply voltages and provides: an external indication when all six are present (lamps in POWER ON/OFF switch S1), fault status signals, overvoltage protection.

3-3. CIRCUIT CARD/MODULE FUNCTIONAL DESCRIPTION. The following subparagraphs provide a functional description of the Receiver Set circuit card assemblies.

3-3.1 Buffer Amplifier CCA (A5) Functional Description. Refer to figure 3-3, a functional block diagram of CCA A5. This CCA provides 5 MHz reference clock signals and monitors the fault status of the Receiver Set. These functions are described in the following subparagraphs.

3-3.1.1 5 MHz Reference Signals. The 5 MHz REF clock signal is buffered by AR1 and fed to drivers AR2 and AR3. AR3 provides the four 5 MHz reference signals for the receivers. AR2 provides three 5 MHz reference outputs and the input to T1. T1 provides a 5 MHz differential sine wave output for system use. Buffer AR1 also feeds 5 MHz REF to a level detector circuit U3. The circuit detects the presence of the 5 MHz signal. When the signal falls below a preset level, comparator U3 provides current to operate relay K2. The normally open contacts of K2 close, feeding +24V to the REF OSC FAILURE indicator lamp on the front panel.

3-3.1.2 Enclosure Status. Comparator U1 monitors the status of the temperature sensor contacts. When the contacts open, U1 provides the current to energize relay K1. One set of contacts feeds +24V to the OVER TEMP indicator lamp on the front panel. The other set of relay contacts grounds the input of line driver U2. U2 also has as inputs fault status signals from A6, and relay K2 in the 5 MHz reference fault detector circuit. When a fault condition exists, U2 provides the differential signal ENCLOSURE FAULT.

3-3.1.3 Power Supplies. +15V and +5V are derived from the +24V supply by regulators VR1 and VR2. These supply power for the integrated circuits on the card. +15V is fed out to Supply module Y1, and AR1 through AR4, mounted on the Receiver Set chassis.

3-3.2 Power Supply Monitor CCA (A6) Functional Description. Refer to figure 3-4, a functional block diagram of A6. A6 provides overvoltage protection for the circuits and assemblies in the Receiver Set. Six crowbar devices U1 thru U6 monitor the power supply output voltages. They operate when there is an over-voltage condition short circuiting the power supply. This causes the overcurrent protection circuit, part of each power supply module, to operate. The power supply voltages are also monitored by opto-isolator devices U7 through U9 in series. When any one power supply voltage fails the appropriate device switches off lamp driver transistors Q1 and Q2. This condition causes the power indicator lamp to go out and relay K1 is deenergized providing the POWER SUPPLY STATUS signals.

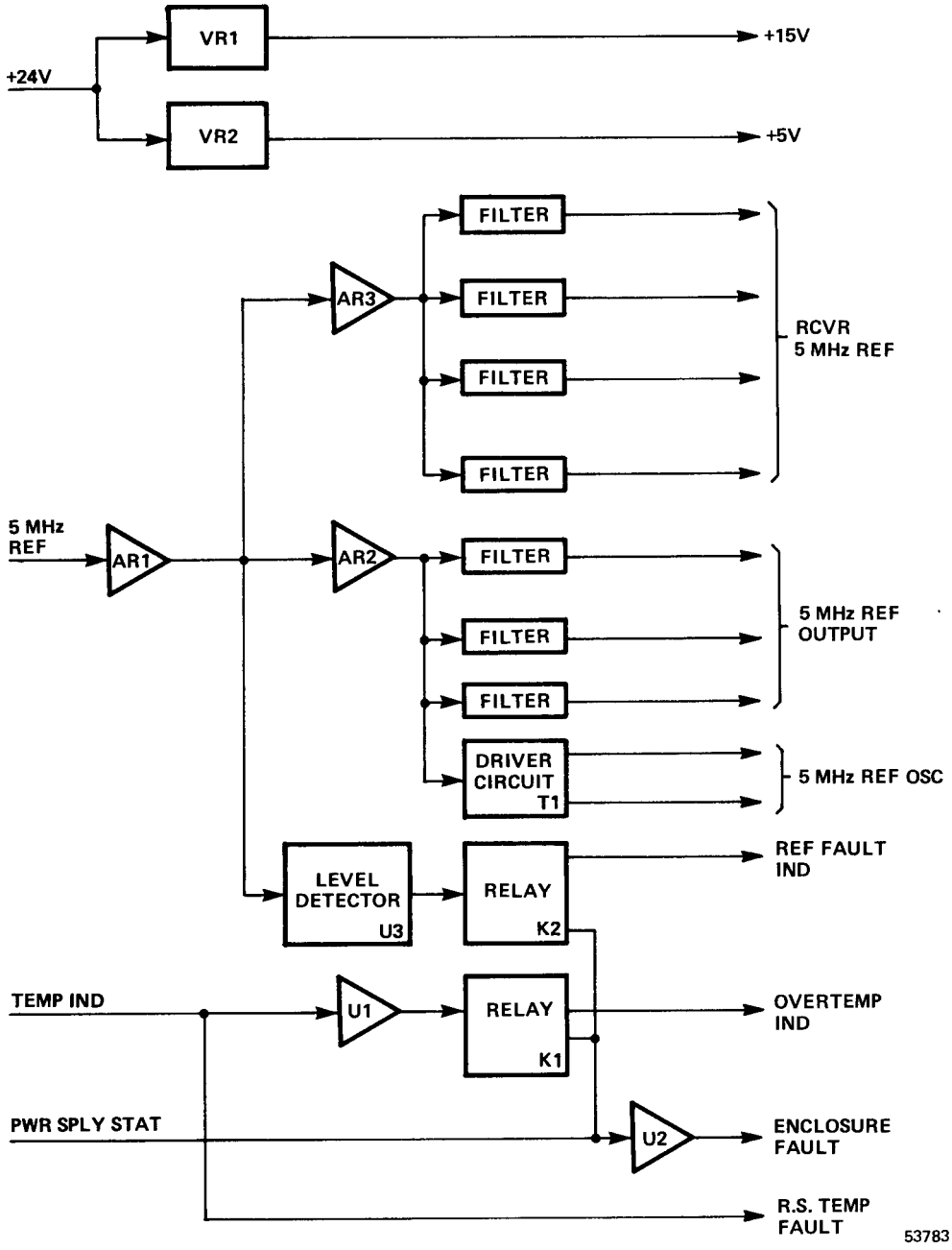


Figure 3-3. Buffer Amplifier CCA (A5), Functional Block Diagram

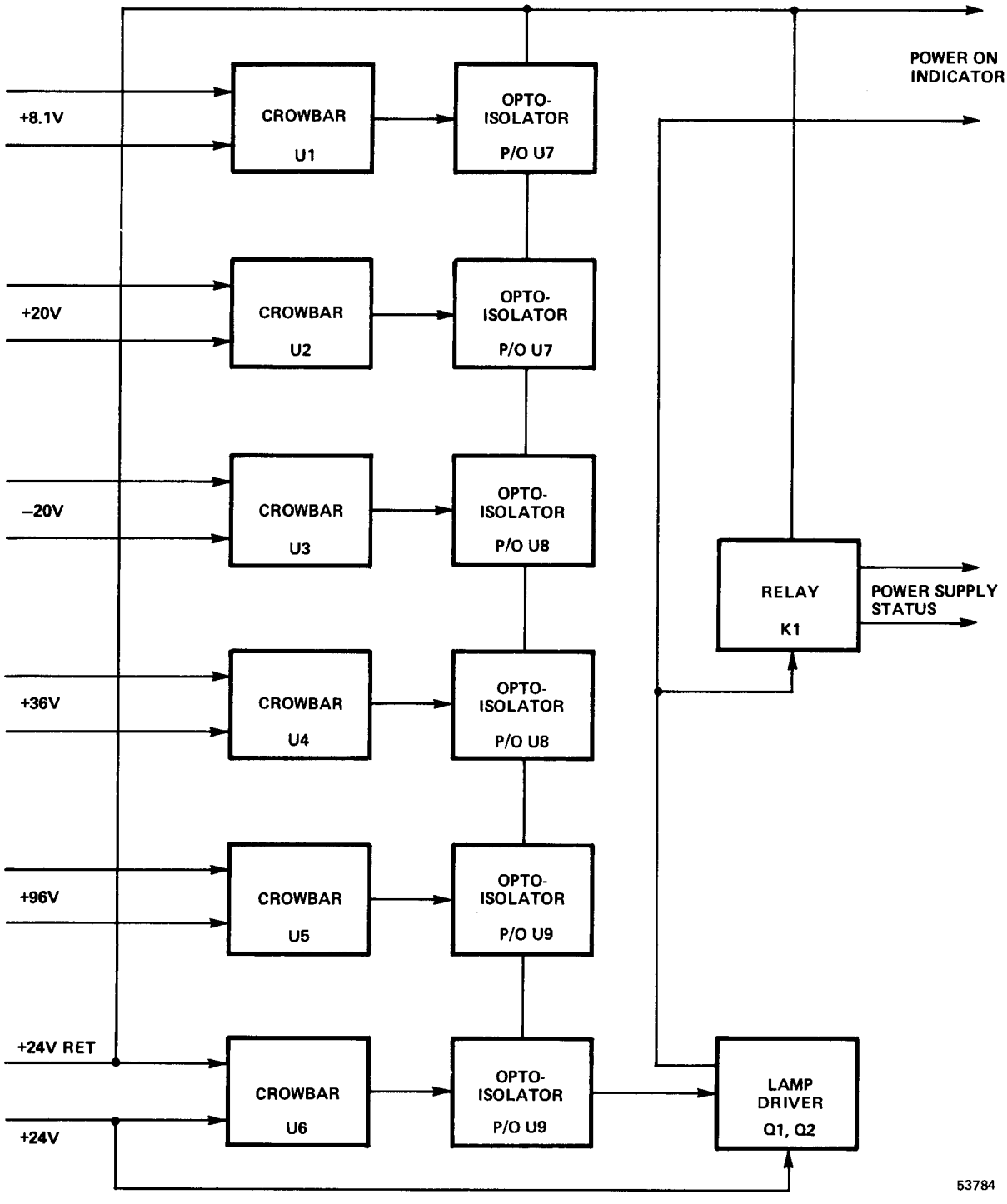


Figure 3-4. Power Supply Monitor CCA (A6), Functional Block Diagram

CHAPTER 4

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

NOTE

This chapter is not applicable since there are no Direct Support (DS) maintenance functions allocated on the Receiver Set. However, DS maintenance provides forward maintenance support and technical assistance to the organizational level through the use of mobile Maintenance Support Teams on a periodic or as required basis.

CHAPTER 5

GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

5-1. **SCOPE.** This chapter provides the information required for general support maintenance personnel to perform the maintenance tasks authorized in the maintenance allocation chart (MAC). Maintenance is performed using Electronic Equipment Test Station AN/USM-410 for those items listed in table 5-1. Manual testing procedures are provided for those modules not tested on the AN/USM-410. These modules will be evacuated to SIG/INT EW Section for diagnostic testing and repair.

5-2. **TEST LEVEL DESCRIPTIONS.** Four levels of test can be performed using the AN/USM-410. The levels are defined as follows:

a. Level 1. Go-chain (performance) test at unit level. No disassembly is required.

b. Level 2. Unit level diagnostic tests necessary to isolate faults to a printed circuit assembly/module; or a functional group of printed circuit assemblies/modules. Minimal disassembly is required for testing.

c. Level 3. Go-chain (performance) tests at printed circuit assembly/module level.

d. Level 4. Printed circuit assembly/module level diagnostic tests necessary to fault isolate to the active piece part/functional group.

5-3. **TEST PROCEDURES.** Tests for each unit under test (UUT) specified in table 5-1 require Interface Devices (ID) and cables to connect the UUT to the AN/USM-410. The required items of test equipment for each UUT are identified in table 5-1. Interconnection data is shown in the referenced figure. Automatic Test Equipment Software Programs (ATESP) written for the UUTs specified are stored on Test Program Tape (TPT) and are identified by a specific TPT number. TPT number, program entry points, and file names are listed in table 5-1. Operation of the AN/USM-410 is described in technical manual Test Station Electronic Equipment AN/USM-410(XE-3A)(V) PDEP11-6625-2773-12-3. The test procedure for each UUT is as follows:

a. Pre-test inspection:

(1) Inspect the UUT as described in table 5-2.

(2) Correct any defects found before beginning testing.

Table 5-1. Test Information

Unit under test (UUT)	Test level	Test equipment		Program entry points		File names	Test setup diagram
		Item	Part no.	Entry point	Test		
Receiver Set (5051640-1)	1 & 2	PIU-B ID	5053510-1	000500	Verification Test	5051640SRV.IC	Fig 5-1
		PIU-B Plug-in Adapter #4	5053514-1	001000	ATE/UUT Hookup Test	5051640ADP.IC	
		400 Hz Switching ID	5053501-2				
		LRU RF ID #1	5053526-1	010000	UUT PV Test	5051640PV1.IC	
		Cables:					
		W1	5053528-1				
		W10	5053530-1				
		W16	C5075902-1				
		W18	C5075903-1				
		W19	C5075904-1				
		W20	C5075905-1				
		W21	C5075906-1				
		W26	C5075907-1				
		W27	C5075964-1				
		Accessory Kit (items required)	5053561-1				
		Cables:					
		W7	5053559-1				
		W8	5053560-1				
		SC In-Series Adapter	5053562-1				

Table 5-1. Test Information - Continued

Unit under test (UUT)	Test level	Test equipment		Program entry points		File names	Test setup diagram
		Item	Part no.	Entry point	Test		
		Jumper Plugs W43 (quantity 4 required)	C5075908-1				
		Automatic Test Equipment Software Program (ATESP)	TPT5051640-1				
Buffer Amplifier CCA (5051909-1)	3 & 4	PIU-A ID	5053507-1				Fig 5-2
		PIU-A Plug-in Adapter #2	C5076125-1	000500	Verification Test	5051909SRV.IC 5051909ADP.IC 5051909PV1.IC	
		Software: Automatic Test Equipment Software Program (ATESP)	TPT5051909-1	001000	ATE-UUT Hookup		
				010000	Start Verification Tests		
Power Supply Monitor CCA (5051841-1)	3 & 4	RF ID #2	5053527-1	000500	Verification Test	5051841SRV.IC 5051841ADP.IC 5051841PV1.IC	Fig 5-3
		Test Cable W263	C5114347-1	001000	ATE/UUT Hookup		
		Software: Automatic Test Equipment Software Program (ATESP)	TPT5051841-1				

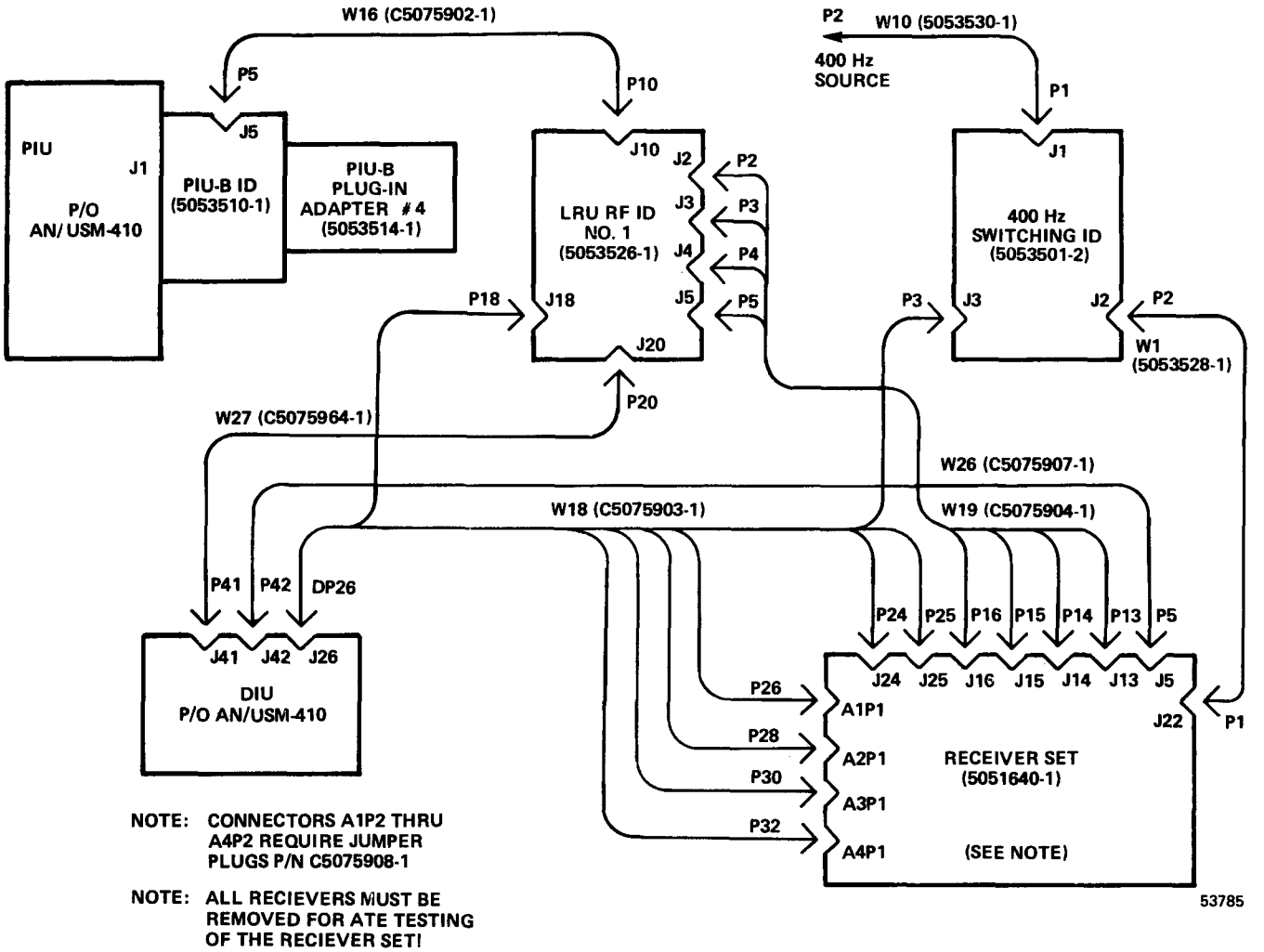


Figure 5-1. Receiver Set, Test Set-up Diagram.

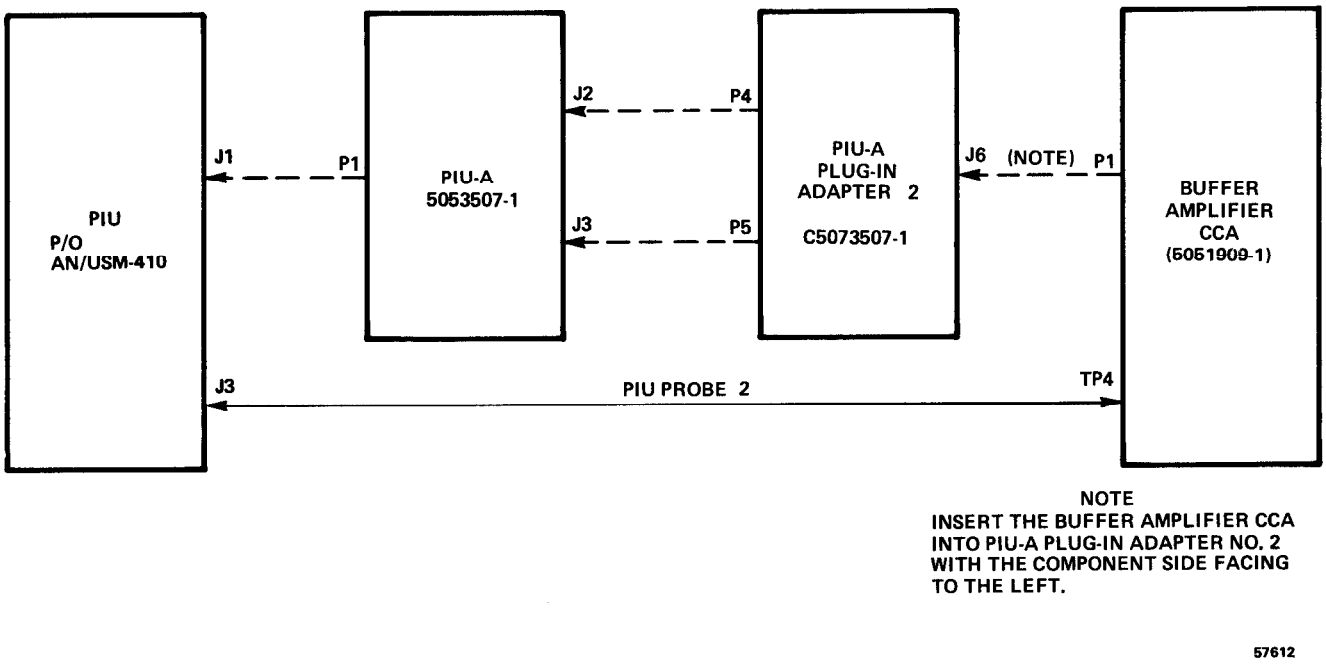


Figure 5-2. Buffer Amplifier CCA (A 5), Test Set-up Diagram

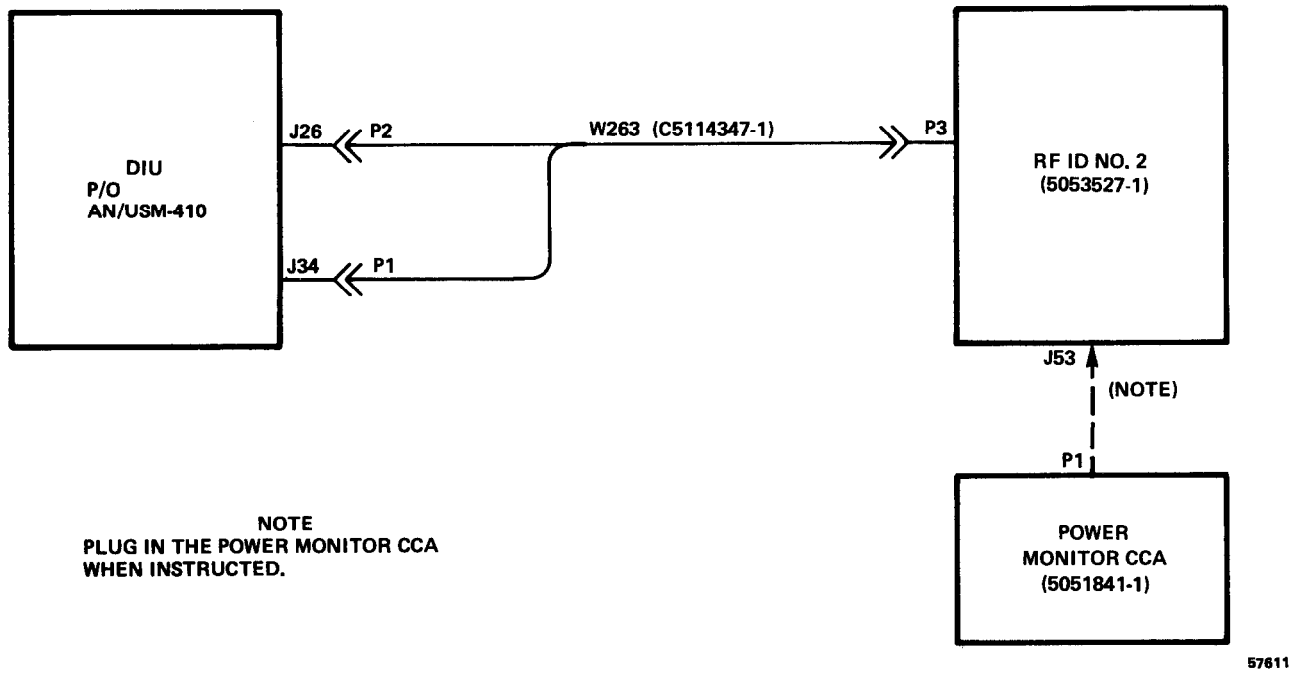


Figure 5-3. Power Supply Monitor CCA (A6), Test Set-up Diagram

b. Preprogram start procedure:

(1) Perform the turn-on procedure for the AN/USM-410 as described in PDEP 11-6625-2773-12-3.

(2) Mount the ATESP magnetic tape in accordance with the instructions detailed in PDEP 11-6625-2773-12-3.

(3) Load the ATESP from magnetic tape to the removable disk by entering the following commands at the keyboard:

DIR DPØ ret

INIT MTØ ret

LOAD/A/V MTØ:Ø (file names from table 5-1, one space between each) ret

example: LOAD/A/V MTØ:Ø 5051909SRV.IC 5051909ADP.IC 5051909PV1.IC ret

NOTE

When more than three file names are used, enter three file names followed by the character and a carriage return, then the remaining file names.

(4) Verify that all the file names required are displayed on the Video Display Terminal (VDT).

(5) Enter the following command at the keyboard:

RELEASE MTØ ret

(6) Remove the ATESP magnetic tape in accordance with the instructions detailed in PDEP 11-6625-2773-12-3.

c. UUT testing:

(1) At the Test Operator's Panel Select; the desired interface(s) (printer, disk, etc.); the desired test result output (ALL TESTS, FAILURES ONLY).

NOTE

If no selection is made, no test results will be saved.

(2) Start ATESP/UUT testing by entering the following command at the keyboard:

TEST (the TPT number from table 5-l)PV1 ret
examples TEST 5051530PV1 ret
TEST 5051909PV1 ret

Table 5-2. Pre-test Inspection

Assembly/Component	Inspection Method	General Condition	Procedure
Receiver Set	Visual	a. thru c. must be free of defects.	a. Inspect exterior for dents, scratches, corrosion, damaged or missing hardware. b. Inspect external controls, indicators, and connections for broken, loose or damaged parts. c. With top and bottom access covers removed, inspect all cables, wiring, and switches for burned contacts and insulation, broken or loose connections and other signs of damage.
Buffer Amplifier Power Supplies Monitor	Visual	a. thru c. must be free of defects.	a. Inspect for discolored, loose, broken or burned components and connections. b. Inspect for cold solder joints and excessive solder. c. Inspect boards for cracks, chips and breaks.

(3) Based on the program entry points, described in table 5-1, select and execute one of the following options:

NOTE

The first entry point must be used for the first test of the UUT.

(a) If the first entry point is to be used, press PROCEED.

(b) Enter the appropriate entry point; press RETURN.

(4) Follow the instructions as they appear on the VDT until the program is complete.

NOTE

Interconnection instructions displayed on the VDT are also provided in the figures referenced in table 5-1.

d. Program completion instructions:

(1) Disconnect the UUT from the AN/USM-410.

(2) Store all interface adapters and interconnecting cables.

WARNING

The Receiver Set weighs approximately 100 pounds with the four plug-in receivers installed, 57 pounds without the receivers. To avoid possible injury to personnel, and/or damage to the equipment, two persons are required to handle the unit.

5-4. COMPONENT REMOVAL AND REPLACEMENT. The procedure for removing components from the Receiver Set unit are described below. Table 5-3 lists the components of the Receiver Set. Unless otherwise specified, components are installed by reversing the removal procedure.

WARNING

The following removal/installation procedures must be carried out with the unit disconnected from the AN/USM-410. When connected to a power source, HIGH VOLTAGE is present in the unit. This HIGH VOLTAGE could cause death.

5-4.1 Top and Bottom Access Cover Removal. Each access cover is secured by captive turn-lock fasteners. The fasteners are released by turning 1/4 turn counterclockwise. To remove a cover, release the eight fasteners and lift off the cover.

5-4.2 Buffer Amplifier CCA (A5), Removal/Installation. A5 is removed as follows:

a. Remove the top access cover. Refer to para 5-4.1.

b. Release the retaining catches located at each side of the circuit card assembly.

c. Using card extractor tool 5054268, remove the circuit card assembly from the unit.

Table 5-3. Receiver Set CCA/Module Identification

Component	Reference designation	Part number	Schematic diagram
Buffer Amplifier CCA	A5	5051909-1	FO-2
Power Supply Monitor CCA	A6	5051841-1	FO-3
Reference Oscillator, 5 MHz	Y1	5054967-1	----
EMI Filter Assembly	A7	5051780-2	----
Indicator Light Assembly	A8	5052299-2	----
Filter Assembly	A10	C5075831-1	FO-4
Filter Assembly (SEE NOTE)	A11	C5146983	FO-5

NOTE: FILTER ASSY A11 INSTALLED ON SERIAL NOS. 143 AND ABOVE

d. To install a replacement, insert the card into the guides in the card holder. Push down until firmley seated.

e. Secure the catches at each side of the CCA.

f. Replace and secure top access cover.

5-4.3 Filter Assemblies (A10) and (A11), Removal/Installation. A10 or A11 is removed/installed as follows:

a. Remove A10 or A11 from rear panel as follows:

(1) Supporting the filter assembly, remove and retain the four socket head screws, washers and lockwashers, securing the filter assembly to the stand-off posts.

(2) Disconnect A10W1P1 from J24 or A11W1P1 from J27.

b. Install a replacement as follows:

NOTE

If A10W1P1 or A11W1P1 MASTER key engages properly skip step (2).

(1) Align the mounting holes in A10 or All chassis with the screw holes in the stand-off posts. Check that the master key of A10W1P1 or A11W1P1 engages properly with A10 or All in this position.

(2) Loosen the gland nut and adjust the length of W1 to suit. Tighten gland nut.

(3) Secure A10 or A11 to the stand-off posts using the hardware retained in step a.(1).

(4) Connect A10W1P1 to J24 or A11W1P1 to J27.

5-4.4 Power Supply Monitor CCA (A6), Removal/Installation. A6 is removed from the chassis as follows:

a. Loosen the four captive screws securing the filter frame to the front panel. Lower the frame.

b. Remove A10 and A11, refer to para 5-4.3. Store A10 and A11 safely.

CAUTION

Ensure rear panel cannot fall and stress internal wiring.

c. Remove and retain the 20 socket-head screws and washers securing the rear panel to the chassis. Carefully lower and support the panel.

d. Locate and remove the two screws and washers retaining connector P1. Remove connector P1 from A6.

e. Remove and retain the five screws and flat washers securing A6 mounting bracket to the chassis (located near A3 slot).

f. Remove the bracket through the front of the chassis.

g. Remove and retain the six screws, flat washers and lock washers securing A6 to the bracket.

h. To install a replacement A6, reverse the procedure described in steps a. thru g.

5-4.5 Reference Oscillator (Y1), Removal/Installation. Y1 is removed from the unit as follows:

a. Remove top and bottom access covers. Refer to para 5-4.1.

b. Remove CCA A5, refer to para 5-4.2 for procedure. Store A5 safely.

c. Remove and retain the four screws, nuts, flat washers and lock washers securing A5 mounting bracket to the chassis.

CAUTION

Use extreme care to prevent damage to the wiring in the area of Y1.

d. Remove the SMA connector and elbow (CP1) from AT5 at the underside of Y1. Access is through the bottom cover.

e. Supporting the assembly, remove and retain the four nuts, flat washers and lock washers securing the assembly to the chassis.

f. Moving A5 mounting bracket toward the rear of the unit, lift Y1, label and unsolder all remaining connections. Remove through the top of the unit.

g. Remove and retain AT5.

h. To install a replacement assembly, reverse the procedure described in steps a. thru g. Torque SMA connectors to 8-inch pounds.

i. Test the unit using AN/USM-410 to verify repair.

5-4.6 Power Supplies (PS1 thru PS4), Removal/Installation. Power Supplies PS1 thru PS4 are located on the heat sink panel at the rear of the unit. The assemblies are removed from the unit as follows:

a. Remove all cables and A10 from the rear panel. Refer to para 5-4.3.

b. Remove and retain the 20 socket-head screws and washers securing the heat sink panel to the chassis.

c. Taking care not to strain the cable-form, lower and support the heat-sink panel.

d. Label and unsolder all connecting wires to the power supply being removed.

e. Support the assembly and remove and retain securing screws and washers.

f. Lift the power supply from the heat-sink panel and remove from the chassis.

CAUTION

Do not bend or flex the thermal gasket. The heat conducting properties are affected when the gasket is cracked or delaminated. An unserviceable gasket could cause damage to the power supply module.

g. Inspect the thermal gasket. Replace as necessary.

NOTE

Use insulated sleeving (heat-shrink) of appropriate inside diameter on all soldered connections.

h. To install a replacement assembly, reverse the procedure described in steps a. thru g.

5-4.7 Power Supply (PS5), Removal/Installation. PS5 is removed from the chassis as follows:

a. Remove top and bottom access covers. Refer to para 5-4.1.

b. Remove A5, refer to para 5-4.2. Store the A5 safely.

c. Label and unsolder all connecting wires to PS5. Access is through the bottom cover.

d. Remove the four screws, nuts, flat washers and lock washers securing A5 mounting bracket to the chassis. Retain all hardware for reassembly.

e. Taking care not to strain the cables, move the bracket to access the two inner screws securing PS5 to the chassis.

f. Remove and retain the two inner screws and washers.

g. Supporting the module from underneath, remove and retain the two remaining screws and washers securing PS5 to the chassis.

h. Remove PS5 from the chassis through the bottom of the unit.

CAUTION

Do not bend or flex the thermal gasket. The heat conducting properties are affected when the gasket is cracked or delaminated. An unserviceable gasket could cause damage to the power supply module.

i. Inspect the thermal gasket. Replace as necessary.

NOTE

Use insulated sleeving (heat-shrink) of appropriate inside diameter on all soldered connections.

j. To install a replacement, reverse the procedure detailed in steps a. thru i. above.

5-4.8 EMI Filter Assembly (A7), Removal/Installation. The EMI Filter Assembly A7 is removed as follows:

a. Remove A10, refer to para 5-4.3. Store A10 safely.

CAUTION

Ensure rear panel cannot fall and stress internal wiring.

b. Remove and retain the 18 socket-head screws and washers and two threaded stand-off posts securing the rear panel to the chassis.

c. Taking care not to strain the cable-harness, lower and support the rear panel.

d. On the outside of the rear panel, locate, remove and retain the four screws and lock washers securing A7.

NOTE

Do not attempt to unscrew terminal E1.

e. Label and unsolder the connection to ground terminal E1.

f. Remove and retain the six screws and washers securing the assembly cover. Lift off the cover.

g. Label and unsolder the output connection to FL-1, FL-2, and E2.

h. Slip the wires through the grommet and remove the assembly from the unit.

NOTE

When a defective EMI filter is to be stored for later repair, the cover and screws retained in step e. should be replaced.

i. To install a replacement, reverse the procedure detailed in steps a. thru h. above.

5-4.9 Indicator Light Assembly (A8), Replacement. This assembly is mounted on the front panel. Replace a faulty assembly as described in the following subparagraphs.

NOTE

Individual indicator lights can be replaced without removing the assembly from the unit. Refer to para 5-7.

5-4.9.1 Removal. Remove the defective assembly from the unit as follows:

a. Remove the bottom access cover. Refer to para 5-4.1 for procedure.

b. Remove and retain the four countersunk screws securing the assembly to the front panel.

c. Label and unsolder all wires connected to the assembly.

d. The assembly may now be removed from the unit through the bottom access cover.

5-4.9.2 Installation. Install a replacement assembly as follows:

a. Remove and retain the four pan-head screws from the front of the replacement assembly.

b. Solder the connecting wires to the terminals on the assembly.

c. Position the assembly behind the front panel and secure using the hardware retained in para 5-4.9.1.b.

d. Replace and secure the bottom access cover.

e. Ensure the assembly is fitted with serviceable lamps. Refer to para 5-7.

f. Install the four pan-head screws retained in step a. above in the defective assembly. Repair as described in para 5-7.

5-4.10 RF Amplifier (AR1-AR4), Removal/Installation. The RF Amplifiers are removed/installed as follows:

a. Remove A10, refer to para 5-4.3. Store A10 safely.

b. Remove and retain 18 socket-head screws, washers, and two threaded stand-off posts securing the rear panel to the chassis.

c. Taking care not to strain the cable-harness, lower and support the rear panel.

d. Disconnect the cable connected to the OUT connector on the assembly.

e. Disconnect the cable from the attenuator.

f. Label and unsolder the wires connected to the terminals of the assembly.

g. Remove and retain the four screws and washers securing the assembly to the chassis.

h. Remove and retain the attenuator from the IN connector.

NOTE

Use insulated sleeving (heat-shrink) of appropriate inside diameter on soldered connections.

NOTE

Torque SMA connectors to 8-inch pounds.

i. To install a replacement, reverse the procedure detailed in steps a. thru h. above.

5-4.11 Fan (B1), Removal/Installation. B1 is removed/installed as follows:

a. Remove top access cover, refer to para 5-4.1.

b. Locate the yellow/white wire connecting B1 to CB2-2.

CAUTION

When unfastening cable-ties, take care not to cut or damage the wire harness.

c. Unfasten cable-ties and release the yellow/white wire from the harness.

NOTE

Connections to C1 are as follows: red/white and wire to TB1-7D at front panel end, green/white to rear panel end.

d. Unsolder the wires from both ends of C1.

e. Remove PS5, refer to para 5-4.7. Store PS5 and thermal gasket safely.

f. Remove and retain the eight screws and washers securing the air filter. Remove filter.

g. Position the unit so that it rests on its left side.

h. Remove A10, refer to para 5-4.3. Store A10 safely.

i. Remove and retain the 18 screws, washers and the two stand-off posts securing the rear panel to the chassis.

j. Carefully pull out the rear panel to the extent of the service loop in the harness.

k. Remove and retain the hardware securing B1 to the chassis sidewall.

l. Remove B1 through the rear of the chassis.

NOTE

When installing B1, the direction of air flow arrowhead (marked on the side of the fan case) must be directed toward the chassis sidewall.

NOTE

Use insulated sleeving (heat-shrink) of appropriate inside diameter on all soldered connections.

m. To install a replacement, reverse the procedure detailed in steps a. thru 1. above.

5-4.12 Circuit Breakers (CB1-CB5), Removal/Installation. Circuit breakers are removed/installed as follows:

a. Remove top access cover, refer to para 5-4.1.

b. Remove and retain the hardware securing TB1 to the chassis sidewall.

c. Unscrew the rubber boot on the POWER RESET actuator. The boot should be finger-tight.

d. Remove and retain the two screws securing the power reset switch assembly to the right side of the chassis.

e. Carefully remove the switch assembly from chassis.

f. Label and remove the connections to the faulty circuit breaker.

g. Remove the jam nut and lock washer securing the faulty circuit breaker to the mounting bracket and remove the circuit breaker.

h. Remove and retain the jam nut and lock washer from the replacement circuit breaker.

i. Remove and retain the two screws and washers from the terminals of the replacement circuit breaker.

j. Set the circuit breaker to the closed position (white band not visible).

k. To install the replacement, reverse the procedure detailed in steps a. thru f. above. Use the hardware retained in steps h. and i.

5-4.13 RF Cable Assemblies (W1 thru W33), Removal/Installation. Seven different types of RF cable assemblies are used in the unit. Table 5-4 identifies the cable assembly by part number and describes the routing of individual cables. Cables are removed/installed as follows:

NOTE

Torque SMA connectors to 8 inch-pounds.

a. Lower the heat-sink panel as follows:

(1) Disconnect all cables connected at the rear panel and remove A10. Refer to para 5-4.3.

(2) Remove and retain the 20 socket-head screws and washers securing the heat-sink panel to the chassis.

(3) Taking care not to strain the cable-harness, lower and support the heat-sink panel.

b. Identify the cable assembly to be removed.

c. Remove cable assemblies W1 thru W12 as follows:

(1) Remove the jam-nut securing the connector (J1 thru J12) to the rear panel at the P1 end.

CAUTION

When unfastening cable ties, take care not to cut or damage the wire harness.

(2) Unfasten the cable ties securing the cable to the harness. Loosen cable clamps as necessary.

(3) Loosen the two screws and release the cable-clamp at the rear of the connector at the E1 end (XA1P2 thru XA4P2).

(4) Using extraction tool CET-6B (access from front of unit), remove the coaxial contact from the connector.

(5) Remove the cable from the unit.

(6) To install a replacement cable, reverse the procedure described in steps c.(1) thru c.(5).

TABLE 5-4. RF CABLE ROUTING

PART NUMBER	REFERENCE DESIGNATOR	TO
5053016-1	W1P1	J1
	W1E1	XA1P2A1
5053016-2	W2P1	J2
	W2E1	XA2P2A1
5053016-3	W3P1	J3
	W3E1	XA3P2A1
5053016-4	W4P1	J4
	W4E1	XA4P2A1
5053016-5	W5P1	J5
	W5E1	XA1P2A5
5053016-6	W6P1	J6
	W6E1	XA2P2A5
5053016-7	W7P1	J7
	W7E1	XA3P2A5
5053016-8	W8P1	J8
	W8E1	XA4P2A5
5053016-9	W9P1	J9
	W9E1	XA1P2A4
5053016-10	W10P1	J10
	W10E1	XA2P2A4
5053016-11	W11P1	J11
	W11E1	XA3P2A4
5053016-12	W12P1	J12
	W12E1	XA4P2A4
5052295-1	W17P1	AT1
	W17E1	XA1P2A7
5052295-2	W18P1	AT2
	W18E1	XA2P2A7
5052295-3	W19P1	AT3
	W19E1	XA3P2A7
5052295-4	W20P1	AT4
	W20E1	XA4P2A7

TABLE 5-4. RF CABLE ROUTING - CONTINUED

PART NUMBER	REFERENCE DESIGNATOR	TO
5052293-1	W25P1	J13
	W25P2	AR1 OUTPUT
5052293-2	W26P1	J14
	W26P2	AR2 OUTPUT
5052293-3	W27P1	J15
	W27P2	AR3 OUTPUT
5052293-4	W28P1	J16
	W28P2	AR4 OUTPUT
5052294-1	W29P1	J17
	W29E1	XA5 - 26
	P29E2	XA5 - 25
5052294-2	W30P1	J18
	W30E1	XA5 - 23
	W30E2	XA5 - 22
5052294-3	W31P1	J19
	W31E1	XA5 - 20
	W31E2	XA5 - 19
5052294-4	W32P1	J20
	W32E1	XA5 - 30
	W32E2	XA5 - 29
5052292-1	W33P1	J21
	W33P2	AT5
5053019-1	W34P1	J20
	W34P2	J21

(7) Raise and secure the heat-sink panel.

(8) Install A10, refer to para 5-4.3.

d. Remove cable assemblies W17 thru W20 as follows:

(1) Disconnect the SMA connector at the P1 end of the cable (AT1 thru AT4).

CAUTION

When unfastening cable ties, take care not to cut or damage wiring in the harness.

(2) Unfasten the cable-ties securing the cable to the harness. Loosen cable clamps as necessary.

(3) Loosen the two screws to release the cable-clamp at the rear of the connector at the E1 end of the cable (XA1P2 thru XA4P2).

(4) Using extraction tool CET-6B (access from front of unit), remove the coaxial contact from the connector.

(5) Remove the cable from the unit.

(6) To install a replacement cable, reverse the procedure described in steps d.(1) thru d.(5). Torque SMA connector to 8 inch-pounds.

(7) Raise and secure the heat-sink panel.

(8) Install A10, refer to para 5-4.3.

e. Remove cable assemblies W25 thru W28 as follows:

(1) Remove the jam-nut securing the connector at the P1 end of the cable to the rear panel (J13 thru J16).

CAUTION

When unfastening cable ties, take care not to cut or damage wiring in the harness.

(2) Unfasten the cable ties securing the cable to the harness. Loosen cable clamps as necessary.

(3) Disconnect the SMA connector at the P2 end of the cable (AR1 OUTPUT thru AR4 OUTPUT).

(4) Remove the cable assembly from the unit.

(5) To install a replacement cable, reverse the procedure described in steps e.(1) thru e.(4). Torque SMA connectors to 8 inch-pounds.

(6) Raise and secure the heat-sink panel.

(7) Install A10, refer to para 5-4.3

f. Remove cable assemblies W29 thru W32 as follows:

(1) Remove CCA A5, refer to para 5-4.2 for procedure. Store A5 safely.

(2) Remove and retain the four screws, four nuts and eight washers securing A5 mounting bracket to the chassis.

(3) Carefully lift the bracket to allow access to XA5. Using extraction tool M21097/18-01, remove the two contacts (E1 and E3) at the E1 end of the cable. Refer to table 5-4.

CAUTION

When unfastening cable ties, take care not to cut or damage wiring in the harness.

(4) Unfasten the cable ties securing the cable to the harness. Loosen cable clamps as necessary.

(5) Remove the jam-nut securing the connector at the P1 end of the cable to the rear panel (J17 thru J20).

(6) Remove the cable from the unit.

(7) To install a replacement cable, use crimping tool 5120-00-0169-5776, crimp on terminations at E1 and E3 and reverse the procedure described in steps f.(1) thru f.(6).

(8) Raise and secure the heat-sink panel.

(9) Install A10, refer to para 5-4.3.

g. Remove/install cable assembly W33 as follows:

(1) Remove the bottom access cover, refer to para 5-4.1.

(2) Remove the jam-nut securing J21 to the rear panel.

CAUTION

When unfastening cable ties, take care not to cut or damage wiring in the harness.

(3) Unfasten the cable ties securing W33 to the cable harness. Loosen cable clamps as necessary.

(4) Disconnect the SMA connector at AT5.

(5) Remove the cable assembly from the unit.

(6) To install a replacement cable, reverse the procedure described in steps g.(1) thru g.(5). Torque SMA connectors to 8 inch-pound.

(7) Install A10, refer to para 5-4.3.

5-4.14 Wiring Harness (W35), Removal/Replacement. Generally the wire harness can be repaired satisfactorily by following the procedures described in para 5-6. When it becomes necessary to replace the entire wiring harness, carry out the following steps:

a. Remove top and bottom access covers. Refer to para 5-4.1.

b. Remove CCA A5, refer to para 5-4.2 for procedure. Store A5 safely.

c. Access the underside of the unit, unsolder the wires connected to the following components:

(1) PS5 (para 5-4.7)
(2) S1
(3) M1
(4) S2
(5) Y1 (para 5-4.5)

d. Remove and retain the four screws securing A8 to the front panel and unsolder all wires connected to the assembly. Remove A8 through the bottom of the unit and store safely.

e. Unfasten the cable-ties securing the harness to the chassis. Remove cable clamps as required.

f. Access the top of the unit and loosen the screw retaining the terminal blocks in TB1. Remove the seven terminal blocks from TB1, label each bock as it is removed.

g. Using connector pin insertion/removal tool MS27534-20, remove all connectors from each block.

h. Remove and retain the hardware securing ground-tree E4 to the chassis.

i. Remove and retain the two screws, nuts, flat washers and lock washers securing TB1 to the chassis. Remove the assembly from the chassis and retain.

j. Remove all connections from the terminals of CB1 thru CB5. Retain the ten screws for reassembly.

k. Remove and retain the four screws, nuts, flat washers and lock washers securing A5 mounting bracket to the chassis.

1. Remove and retain the hardware securing connector XA5 to the bracket. Remove the bracket from the unit and retain for reassembly.

m. Remove and retain the screw, nut, flat washer and lock washer securing C1 to the chassis.

n. Unsolder the wires connected to C1-1 and C1-2. Remove C1 from the unit and retain for reassembly.

o. The three wires connected to fan B1 (white/yellow, white/red and white/green) are part of B1 and remain in the unit when the harness is removed. Unfasten the cable-ties securing the three wires to the harness and release them from the harness.

P. Remove A10, refer to para 5-4.3. Store A10 safely.

q. Lower the heat-sink rear panel as follows:

(1) Remove and retain the 20 socket-head screws securing the panel to the .

(2) Taking care not to strain the RF cables, pull the panel rearward and lower onto the bench.

r. Remove and retain the hardware securing ground-tree E5 and E6 to the panel.

s. Disconnect the wiring to A7 as follows:

(1) Unsolder the connection to ground terminal E1.

(2) Remove and retain the six screws, flat washers and lock washers securing the top cover. the cover and retain for reassembly.

(3) Unsolder the wires connected to FL1, FL2 and E2.

(4) Pull the wires through the grommet in the assembly.

t. Unsolder all wires connected to PS1 thru PS4.

u. Remove the jam-nuts securing J23 thru J25 to the heat-sink panel.

CAUTION

When unfastening cable ties, take care not to cut or damage the RF cable assemblies.

v. Locate and remove the cable-ties and clamps which secure the RF cable assemblies (routed from J1 thru J21 to XA1P2 thru XA4P2) to the harness.

w. Remove and retain the hardware securing ground-trees E1 thru E3 to the chassis.

x. Unsolder the connections to S3.

y. Unsolder the connections to AR1 thru AR4.

z. Remove and retain the hardware securing connectors XA1P1 thru XA4P1 to the chassis.

aa. Loosen the two screws to release the cable-clamp at the rear of connectors XA1P2 thru XA4P2.

ab. Using extraction tool CET-6B, remove the coaxial contacts from positions A6 and A8 in each of the connectors.

ac. The harness can now be removed from the unit.

NOTE

Use insulated sleeving (heat-shrink) of the appropriate inside diameter on all soldered connections. Refer to Appendix C, Repair Parts and Special Tools List, for details of the materials to be used.

ad. To install a replacement harness, reverse the procedure described in paras a. thru ac. Complete wiring information is provided in table 5-11.

5-4.15 Chassis Mounted Switches (S1-S3), Removal/Installation. To remove/install a front panel switch, proceed as follows:

a. To replace S1 (Power ON/OFF Switch)

(1) Remove bottom access cover. Refer to para 5-4.1.

(2) Lift out the indicator housing from the switch body.

(3) Lossen the screw inside the switch housing to free the cam securing the sleeve against the front panel.

(4) Label and unsolder the wires connected to the switch terminals and remove the switch.

(5) To install a replacement switch, reverse the procedure steps (1) thru (4) above.

b. To replace S2 (Lamp Test Switch)

(1) Remove bottom access cover. Refer to para 5-4.1.

(2) Remove jam nut and lockwasher securing S2 to the front panel.

(3) Label and unsolder the wires connected to the switch.

(4) To install replacement, reverse the procedure steps (1) thru (3) above.

c. To replace S3 (Temperature Sensor)

(1) Remove A10. Refer to para 5-4.3.

(2) Remove and retain the 20 socket head screws and washers securing the rear panel to the chassis. Carefully remove and support the panel.

(3) Label and unsolder the wires connected to S3.

(4) Remove and retain the two screws and washers securing S3 to the chassis.

(5) To install a replacement, reverse the procedure steps (1) thru (4) above.

5-4.16 Elapsed Time Indicator (M1). Removal/Installation. To remove/install M1, carry out the following steps:

a. Remove bottom access cover. Refer to para 5-4.1.

b. Remove and retain the two screws, nuts, and washers securing M1 to the front panel.

c. Label and unsolder the wires connected to M1 terminals and remove M1 from the chassis.

d. To install a replacement M1, reverse the procedure steps a. thru c. above.

5-5. **REPAIR OF FILTER ASSEMBLY EMI (A7).** A7 may be repaired by replacing faulty or damaged components. Bench test the assembly as described in table 5-5. Replace faulty components as follows:

a. Install replacement connector (J22):

(1) Remove and retain the six screws, flat washers and lock washers securing the assembly cover.

(2) Unsolder the three wires connecting FL1, FL2 and E1 to J22.

(3) Remove nuts and washers securing FL1 and FL2. Retain the nuts and washers for reassembly.

(4) Remove FL1 and FL2 from the housing.

(5) Remove the jam nut securing J22 to the housing.

NOTE

Use wires from damaged connector if possible.

(6) On replacement connector solder a 4-inch long wire (16AWG, 600V, WHT, TFE) to each of the pins of the connector.

(7) Install replacement connector and secure using the jam nut.

(8) Reinstall FL1 and FL2 and secure using the nuts and washers.

(9) Solder the wires to FL1, FL2 and E1. Refer to table 5-6, a wire chart for the assembly.

(10) Test the assembly using the procedure detailed in table 5-5.

(11) Secure the cover using the screws and washers removed in step a.(1) above.

Table 5-5. Filter Assembly EMI (A7), Test Procedure

Step	Test condition	Meter connection	Normal reading	Additional checks and remarks
1	Bench test - cover removed	J22-A to FL1 J22-C to FL2	Continuity	If no continuity, find and repair open connection.
2		J22-A to Ground	No continuity	If there is continuity, replace FL1
3		J22-C to Ground	No continuity	If there is continuity, replace FL2
4		J22-A to FL1 output	Continuity	If there is no continuity, replace FL1
5		J22-C to FL2 output	Continuity	If there is no continuity, replace FL2

Table 5-6. Filter Assembly EMI (A7), Wire Chart

Wire no.	From	To
1	J22-A	FL1-2
2	J22-B	E1
3	J22-C	FL2-2

b. To replace filter FL1, FL2:

(1) Remove and retain the six screws, flat washers and lock washers securing the cover.

(2) Unsolder the wire connecting the filter to J22.

(3) Remove the nut and washer securing the filter to the housing.

(4) Position the replacement filter in the housing and secure with the nut and washer.

(5) Solder on the wire removed in step b.(2) above.

(6) Test the assembly using the procedure detailed in table 5-5.

(7) Secure the cover using screws and washers retained in step b.(1) above.

5-6. **MAINTENANCE OF WIRE HARNESS (W35).** Check suspected areas of the harness as described in table 5-7. The following sub-paragraphs provide a general guide to the repair of the harness:

a. To repair damaged multipin connectors:

(1) Push out the damaged pin using the contact removal tool.

(2) Remove damaged pins by cutting wire(s) as close to the pin(s) as possible.

(3) Check that the shortened wire(s) can be reconnected without straining.

(4) Strip insulation and crimp on new pin(s).

(5) Insert new pin(s) into connector.

b. If the wire is strained by shortening, proceed as follows:

(1) Make up a new wire of the required length.

(2) Using cable markers, identify the wire at both ends with its wire number.

(3) Crimp on a new pin and insert in the connector.

(4) Route the wire along the harness, secure under the existing cable clamps.

(5) Disconnect old wire at destination.

(6) Use the correct termination for the new wire and connect at destination.

(7) Cut back the old wire to the first tie point at each end.

5-7. **REPAIR Of INDICATOR LIGHT ASSEMBLY (A8)** . These assemblies may be repaired by replacing faulty or damaged components. Inspect the assembly as described in table 5-8. Replace faulty components as follows:

a. Replace faulty indicator lens as follows:

NOTE

Individual lens may be replaced without removing the complete assembly from the unit.

(1) Using a small flat point screwdriver in the groove at the top of the indicator light assembly, gently remove the lens.

Table 5-7. Maintenance of Wire Harness

Step	Test condition	Procedure	Normal indication	Remarks and further checks
1	Harness in the Unit.	Visually inspect harness for frayed, burnt or discolored insulation, broken wires or loose connections.		Wire should be dressed to disclose no frayed insulation. All connections should be tightened. All broken and/or loose connections should be repaired. Wire with burnt or discolored insulation should be inspected further.
2	Harness in the Unit.	Use multimeter, wire list, and schematic, to check for continuity of suspected areas of the wire harness.	All point-to-point connections should have continuity.	All wire connections should have continuity. All open circuits must be repaired.

Table 5-8. Indicator Lamp Assembly (A8), Inspection

Component	Inspection method	Normal condition	Procedure
Indicator Light Assy	Visual	a. thru d. must be free of defects.	a. Check the assembly for loose, missing or damaged hardware. b. Check lamp contacts for dirt, corrosion and damage. c. Check for continuity between lamp contacts and printed wiring board connections using a multimeter. d. Examine the printed wiring board, check for broken or cracked board, dry joints or excessive solder, lifted or broken tracks.

(2) Pull the lens out to the extent of the retaining spring.

(3) Insert the blade of the screwdriver between the retaining spring and the top of the sleeve. Gently depress the spring to release the lens from the sleeve.

(4) Ensure the replacement lens is fitted with serviceable lamps.

(5) Insert the lens into the sleeve and push gently until the retaining spring snaps into position.

b. Replace Indicator Assembly/Printed Wiring Board on A8 as follows:

CAUTION

Use a low temperature soldering iron tip or appropriate heat-sink to avoid damage to printed wiring board. Refer to NAVTORPSTA REPORT 1347.

(1) Use solder wick or suction to remove solder from all connections to the printed wiring board.

(2) Remove and retain the four screws securing the printed wiring board to the assembly.

(3) Remove the board from the assembly.

(4) Discard the faulty component.

(5) Assemble the replacement part to the component retained in step b. (4).

(6) Use the four screws retained in step b.(2) to secure the printed wiring board to the assembly.

(7) Solder the printed wiring board to the assembly.

(8) Ensure the repaired assembly meets all the requirements of table 5-8.

5-8. **MAINTENANCE OF FILTER ASSEMBLIES (A10) AND (A11).** A10 and A11 may be repaired by replacing faulty or damaged components identified during test or inspection, refer to table 5-9. Table 5-10 is a wire list for the assembly. Disassembly procedures are described in para 5-8.1. Refer to NAVTORPSTA REPORT 1347, Guide Manual for Repair of Electronic Modules, for repair procedures for A10A1 and A10A2.

5-8.1 Disassembly of A10. This paragraph describes the procedures for removal/ installation of components and sub-assemblies of A10.

Table 5-9. Filter Assemblies (A10, A11) Inspection/Test

Assembly/Component	Inspection method	Normal indication	Procedure
Filter Assembly	Visual	a. thru c. must be free of defects.	a. Check exterior for dents, scratches, corrosion, damaged or missing hardware. b. Check connectors for loose, damaged or corroded pins and damage to shell. c. Check W1 for cuts or other signs of damage. The ground connection of the clamp of W1P1 outlet should be secure.
	Continuity check	Continuity	Using a multimeter, check continuity W1P1 to J1. Refer to table 5-10 (A10) and table 5-10.1 (A11).
	Short circuit check	No short circuit filters.	Using a multimeter, check wiring of W1P1 and J1 for short circuits. Refer to table 5-10 and FO-4 (A10) and table 5-10.1 and FO-5 (A11).
CCA A1 CCA A2	Visual	a. thru c. must be free of defects.	a. Check for discolored, loose, broken or burned components and connections. b. Check for cold solder joint, and excessive solder. c. Check the board for cracks, chips and breaks.
	Continuity check	No open circuit inductors or printed wiring.	Use a multimeter to check continuity of filter circuits. Refer to FO-4 (A10) and FO-5 (A11).
	Short circuit check	No short circuit capacitors or solder bridges.	Use a multimeter to check filter circuits for shorts.

5-8.1.1 Cover Removal/Installation. To remove/install the cover proceed as follows:

CAUTION

An RFI gasket is fitted to the assembly. Ensure the gasket is undamaged and seats correctly when the cover is replaced.

a. Remove and retain the 12 screws and washers securing the cover.

b. Lift off the cover.

c. To install cover, reverse steps a. and b. above.

5-8.1.2 Filter CCA (A1OA1) or AGC/AUDIO Filter CCA (A11A2), Removal/Installation. To remove/install A1OA1 or A11A2, perform the following steps:

a. Remove cover, refer to para 5-8.1.1.

b. Remove and retain the six screws, flat washers, lock washers, and spacers securing A1OA1 or A11A2 to the chassis. Lift up A1OA1 or A11A2.

c. Label and unsolder all connections to A1OA1 or A11A2.

NOTE

Pin 1 of A1OA1 or E1 of A11A2 must be positioned as shown in figure 5-4.

d. To install a replacement, reverse steps a. thru c. above.

e. Check that the assembly meets all the requirements of table 5-9.

5-8.1.3 Filter Bus 2 CCA (A1OA2) or AGC/AUDIO Filter CCA (A11A1), Removal/Installation. To remove/install A10A2 or A11A1 carry out the following steps:

a. Remove cover, refer to para 5-8.1.1

b. Remove and retain the six screws. flat washers, lock washers, and spacers securing A1OA2 or A11A1 to the chassis.

c. Carefully lift A1OA2 or A11A1.

d. Label and unsol der all connections to A1OA2 or A1141.

NOTE

Pin 1 or A1OA2 or E1 of A11A1 must be positioned as shown in figure 5-4.

e. To install a replacement, reverse the procedures detailed in steps a. thru d. above.

f. Check that the assembly meets all the requirements of table 5-9.

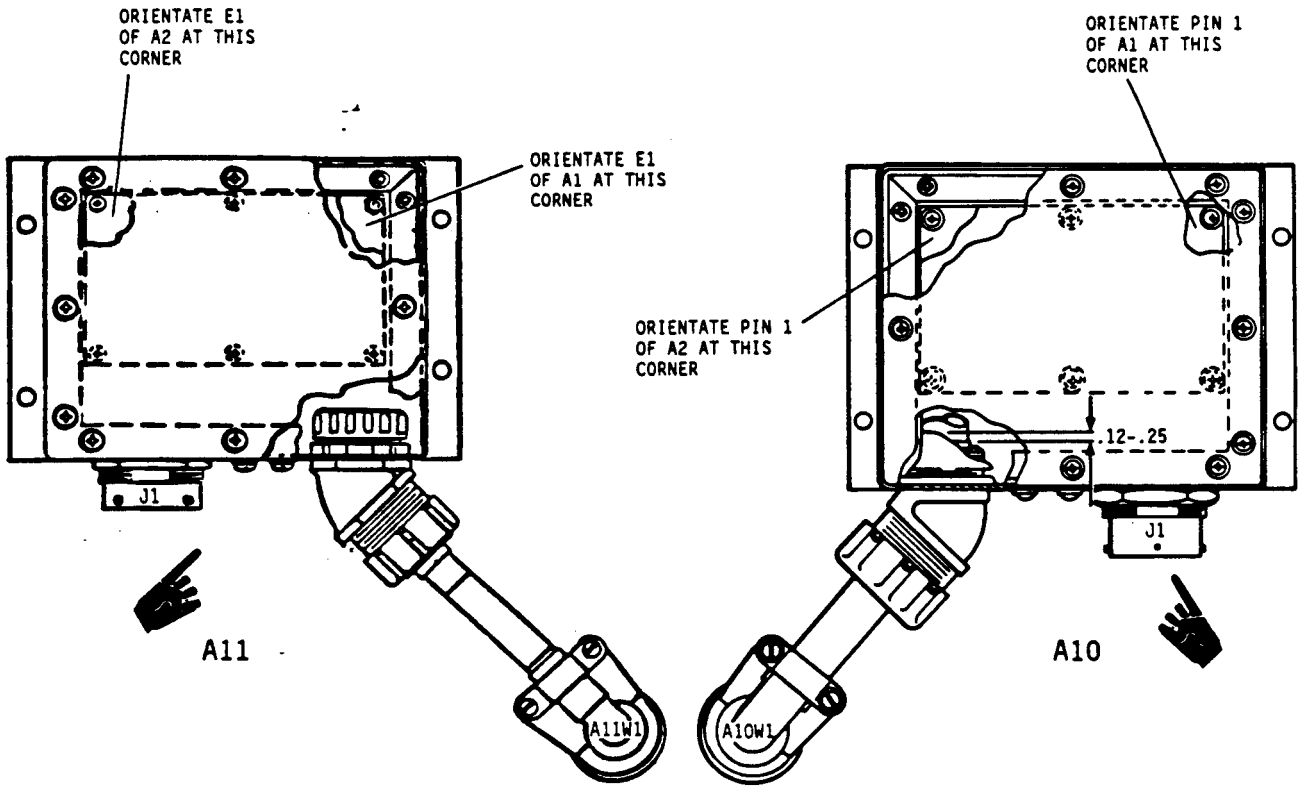


Figure 5-4. Filter Assemblies (A10, A11)

5-8.1.4 Cable Assembly A10W1 or A11W1, Removal/Installation. To remove/install W1, carry out the following steps:

a. Remove cover, refer to para 5-8.1.1.

b. Remove and retain the six screws, flat washers, lock washers and spacers securing A1 and A2 printed circuit boards to the chassis.

c. Carefully lift A1 and A2 to access wiring.

d. Unsolder W1 wiring from A1 and A2. Refer to A10 wire list, table 5-10 or A11 wire list, table 5-10.1.

e. Disconnect W1E1 from terminal E1.

f. Loosen the gland nut and threaded bushing on CP1. Pull W1 through the conduit to remove from the assembly.

NOTE

Install W1 with the outer jacket recessed between 0.12 and 0.25 inches behind the face of the threaded bushing. Refer to figure 5-4.

g. To install a replacement, reverse the procedure detailed in steps a. thru f. above.

h. Check that the assembly meets all the requirements of table 5-9.

5-8.1.5 Connector J1, Removal/Installation. To remove/install J1, carry out the following steps:

a. Remove cover, refer to para 5-8.1.1.

b. Remove and retain the six screws, flat washers, lock washers and spacers securing A1 and A2 to the chassis.

c. Carefully lift A1 and A2 to access wiring.

d. Remove jam nut securing J1 to the chassis.

e. Using connector pin removal/insertion tool MS27534-20, remove and tag pins from J1.

f. To install a replacement, reverse the procedure detailed in steps a. thru c. above.

g. Check that the assembly meets all the requirements of table 5-9.

Table 5-10. Filter Assembly (A10), Wire List

NOTES : UNLESS OTHER WISE SPECIFIED

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE DESIGNATION, PREFIX WITH UNIT NUMBER AND ASSEMBLY DESIGNATION
2. REFER TO RPSTL, APPENDIX C FOR WIRE TYPE INFORMATION. ITEM NUMBERS ON THIS WIRE LIST ARE NOT APPLICABLE
3. REF SCHEMATIC DIAGRAM C5075833, F0-4
4. LENGTH OF WIRE TO BE DETERMINED AT ASSEMBLY
5. WIRING PROCEDURE PER MIL-STD-454, REQ 9, SOLDER PER MIL-STD-454, REQ 5
6. IDENTIFICATION OF WIRE PER MIL-STD-681, SYSTEM IV
7. PART OF C5075837-1 (CABLE ASSY SP, W1)
8. * PRECEDING CONNECTOR INDICATES “SHIELD OF WIRE AT” - EG “*CB1-1” INDICATES “SHIELD OF WIRE AT CB1-1”
   * PRECEDING PIN LETTER INDICATES LOWER CASE LETTER
9. UNLISTED PINS ARE NOT CONNECTED
10. FOR HARNESS SUMMARY SEE SHEET 14 OF THIS WIRE LIST

COMPONENT P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
GND			P1 - A	1	P1 - B	000	35		STR	7		24 AWG BLK
GND	1	P1 - A	P1 - B	2	P1 - *G	000	35		STR	7		24 AWG BLK
			P1 - C	3								NC
			P1 - D	4								NC
			P1 - E	5								NC
			P1 - F	6								NC
			P1 - G	7								NC
			P1 - H	8								NC
GND	21	P1 - *G	P1 - J	9	W1P1 -INSH	000	35		STR	7		24 AWG BLK
STROBE(+)			P1 - K	10	A1 - 2	999	36		TSP	7		24 AWG WHT
STROBE(-)			P1 - L	10	A1 - 1	444				7		24 AWG YEL
SHLD GND			*P1 - K	10A	W1P1 -INSH		36		STR	7		24 AWG (DRAIN)
SHLD GND			*A1 - 1	10B	A1 - 3		36		STR	7		24 AWG (DRAIN)
CLOCK(+)			P1 - M	11	A1 - 5	000	36		TSP	7		24 AWG BLK
CLOCK(-)			P1 - N	11	A1 - 4	888				7		24 AWG GRY
SHLD GND			*P1 - M	11A	W1P1 -INSH		36		STR	7		24 AWG (DRAIN)
SHLD GND			*A1 - 4	11B	A1 - 6		36		STR	7		24 AWG (DRAIN)
DATA (+)			P1 - P	12	A1 - 8	000	36		TSP	7		24 AWG BLK
DATA (-)			P1 - R	12	A1 - 7	444				7		24 AWG YEL

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 SHEET 3 REV

COMPONENT P1

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
SHLD GND			*P1 - P	12A	W1P1 -INSH		36		STR	7		24 AWG (DRAIN)
SHLD GND			*A1 - 7	12B	A1 - 9		36		STR	7		24 AWG (DRAIN)
5MHZ REF OSC(+)			P1 - S	13	A1 - 11	000	36		TSP	7		24 AWG BLK
5MHZ REF OSC(-)			P1 - T	13	A1 - 10	777				7		24 AWG VIO
SHLD GND			*P1 - S	13A	W1P1 -INSH		36		STR	7		24 AWG (DRAIN)
SHLD GND			*A1 - 10	13B	A1 - 12		36		STR	7		24 AWG (DRAIN)
ADDRESS 25 INPUT			P1 - U	14	A2 - 2	000	36		TSP	7		24 AWG BLK
ADDRESS RTN			P1 - *A	14	A2 - 1	333				7		24 AWG ORN
SHLD GND			*P1 - U	14A	W1P1 -INSH		36		STR	7		24 AWG (DRAIN)
SHLD GND			*A2 - 1	14B	A2 - 3		36		STR	7		24 AWG (DRAIN)
ADDRESS 24 INPUT			P1 - V	15	A2 - 4	000	36		TSP	7		24 AWG BLK
ADDRESS 23 INPUT			P1 - W	15	A2 - 5	666				7		24 AWG BLU
SHLD GND			*P1 - V	15A	W1P1 -INSH		36		STR	7		24 AWG (DRAIN)
SHLD GND			*A2 - 4	15B	A2 - 6		36		STR	7		24 AWG (DRAIN)
			P1 - X	16								NC
PWR SUP FAULT			P1 - Y	17	A2 - 7	999	36		TSP	7		24 AWG WHT
PWR SUP FAULT			P1 - Z	17	A2 - 8	222				7		24 AWG RED
SHLD GND			*P1 - Y	17A	W1P1 -INSH		36		STR	7		24 AWG (DRAIN)
SHLD GND			*A2 - 7	17B	A2 - 9		36		STR	7		24 AWG (DRAIN)

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 | SHEET 4 | REV

COMPONENT P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			P1 - *B	18								NC
EXT BLK RCVR 1			P1 - *C	19	A2 - 10	999	36		TSP	7		24 AWG WHT
EXT BLK RCVR 2			P1 - *D	19	A2 - 11	555				7		24 AWG GRN
SHLD GND			*P1 - *C	19A	W1P1 -INSH		36		STR	7		24 AWG (DRAIN)
SHLD GND			*A2 - 10	19B	A2 - 12		36		STR	7		24 AWG (DRAIN)
EXT BLK RCVR 3			P1 - *E	20	A2 - 13	000	36		TSP	7		24 AWG BLK
ETX BLK RCVR 4			P1 - *F	20	A2 - 14	555				7		24 AWG GRN
SHLD GND			*P1 - *E	20A	W1P1 -INSH		36		STR	7		24 AWG (DRAIN)
SHLD GND			*A2 - 13	20B	A2 - 15		36		STR	7		24 AWG (DRAIN)
GND	2	P1 - B	P1 - *G	21	P1 - J	000	35		STR	7		24 AWG BLK
TEMP FAULT			P1 - *H	22	A2 - 16	000	36		TSP	7		24 AWG BLK
TEMP FAULT			P1 - *J	22	A2 - 17	999				7		24 AWG WHT
SHLD GND			*P1 - *H	22A	W1P1 -INSH		36		STR	7		24 AWG (DRAIN)
SHLD GND			*A2 - 16	22B	A2 - 18		36		STR	7		24 AWG (DRAIN)
			P1 - *I	23								NC
SHLD GND			W1P1 -OTSH	24	P1 -SHEL		36		STR	7		24 AWG (DRAIN)
SHLD GND	24	W1P1 -OTSH	P1 -SHEL									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 | SHEET 5 | REV

COMPONENT W1P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
CHASSIS GND			W1P1 -OTSH	25	E1		36		STR	7		24 AWG (DRAIN)
CHASSIS GND			W1P1 -OTSH	26	E1		36		STR	7		24 AWG (DRAIN)
SHLD GND	9	P1 - J	W1P1 -INSH									
SHLD GND	10A	*P1 - K	W1P1 -INSH									
SHLD GND	11A	*P1 - M	W1P1 -INSH									
SHLD GND	12A	*P1 - P	W1P1 -INSH									
SHLD GND	13A	*P1 - S	W1P1 -INSH									
SHLD GND	14A	*P1 - U	W1P1 -INSH									
SHLD GND	15A	*P1 - V	W1P1 -INSH									
SHLD GND	17A	*P1 - Y	W1P1 -INSH									
SHLD GND	19A	*P1 - *C	W1P1 -INSH									
SHLD GND	20A	*P1 - *E	W1P1 -INSH									
SHLD GND	22A	*P1 - *H	W1P1 -INSH									

KEY: TST - TWISTED SHIELDED TRIPLE; TT - TWISTED TRIPLE; COAX - COAXIAL; SOL - SOLID
TSP - TWISTED SHIELDED PAIR; TP - TWISTED PAIR; SHLD - SHIELDED; STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 SHEET 6 REV

COMPONENT J1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
GND			J1 - A	27	J1 - B	000	35		STR			24 AWG BLK
GND	27	J1 - A	J1 - B	28	J1 - *G	000	35		STR			24 AWG BLK
			J1 - C	29								NC
			J1 - D	30								NC
			J1 - E	31								NC
			J1 - F	32								NC
			J1 - G	33								NC
			J1 - H	34								NC
GND	47	J1 - *G	J1 - J	35	E2	000	35		STR			24 AWG BLK
STROBE(+)			J1 - K	36	A1 - 14	000	33		TP			24 AWG BLK
STROBE(-)			J1 - L	36	A1 - 13	999						24 AWG WHT
CLOCK(+)			J1 - M	37	A1 - 16	000	33		TP			24 AWG BLK
CLOCK(-)			J1 - N	37	A1 - 15	999						24 AWG WHT
DATA (+)			J1 - P	38	A1 - 18	000	33		TP			24 AWG BLK
DATA (-)			J1 - R	38	A1 - 17	999						24 AWG WHT
5MHZ REF OSC(+)			J1 - S	39	A1 - 20	000	32		TSP			24 AWG BLK
5MHZ REF OSC(-)			J1 - T	39	A1 - 19	999						24 AWG WHT
SHLD GND			*J1 - S	39A	E2	000	35		STR			24 AWG BLK
ADDRESS 25 INPUT			J1 - U	40	A2 - 20	000	33		TP			24 AWG BLK

KEY: TST - TWISTED SHIELDED TRIPLE; TT - TWISTED TRIPLE; COAX - COAXIAL; SOL - SOLID
TSP - TWISTED SHIELDED PAIR; TP - TWISTED PAIR; SHLD - SHIELDED; STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 | SHEET 7 | REV

COMPONENT J1

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
ADDRESS RTN			J1 - *A	40	A2 - 19	999						24 AWG WHT
ADDRESS 24 INPUT			J1 - V	41	A2 - 21	000	33		TP			24 AWG BLK
ADDRESS 23 INPUT			J1 - W	41	A2 - 22	999						24 AWG WHT
			J1 - X	42								NC
PWR SUP FAULT			J1 - Y	43	A2 - 23	000	33		TP			24 AWG BLK
PWR SUP FAULT			J1 - Z	43	A2 - 24	999						24 AWG WHT
			J1 - *B	44								NC
EXT BLK RCVR 1			J1 - *C	45	A2 - 25	000	33		TP			24 AWG BLK
EXT BLK RCVR 2			J1 - *D	45	A2 - 26	999						24 AWG WHT
EXT BLK RCVR 3			J1 - *E	46	A2 - 27	000	33		TP			24 AWG BLK
EXT BLK RCVR 4			J1 - *F	46	A2 - 28	999						24 AWG WHT
GND	28	J1 - B	J1 - *G	47	J1 - J	000	35		STR			24 AWG BLK
TEMP FAULT			J1 - *H	48	A2 - 29	000	33		TP			24 AWG BLK
TEMP FAULT			J1 - *J	48	A2 - 30	999						24 AWG WHT

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 | SHEET 8 | REV

COMPONENT A1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
STROBE(-)	10	P1 - L	A1 - 1									
STROBE(+)	10	P1 - K	A1 - 2									
SHLD GND	10B	*A1 - 1	A1 - 3									
CLOCK(-)	11	P1 - N	A1 - 4									
CLOCK(+)	11	P1 - M	A1 - 5									
SHLD GND	11B	*A1 - 4	A1 - 6									
DATA(-)	12	P1 - R	A1 - 7									
DATA(+)	12	P1 - P	A1 - 8									
SHLD GND	12B	*A1 - 7	A1 - 9									
5MHZ REF OSC(-)	13	P1 - T	A1 - 10									
5MHZ REF OSC(+)	13	P1 - S	A1 - 11									
SHLD GND	13B	*A1 - 10	A1 - 12									
STROBE(-)	36	J1 - L	A1 - 13									
STROBE(+)	36	J1 - K	A1 - 14									
CLOCK(-)	37	J1 - N	A1 - 15									
CLOCK(+)	37	J1 - M	A1 - 16									
DATA(-)	38	J1 - R	A1 - 17									
DATA(+)	38	J1 - P	A1 - 18									
5MHZ REF OSC(-)	39	J1 - T	A1 - 19									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 SHEET 9 REV

COMPONENT A1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
5MHZ REF OSC(+)	39	J1 - S	A1 - 20									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 SHEET 10 REV

COMPONENT A2

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
ADDRESS RTN	14	P1 - *A	A2 - 1									
ADDRESS 25 INPUT	14	P1 - U	A2 - 2									
SHLD GND	14B	*A2 - 1	A2 - 3									
ADDRESS 24 INPUT	15	P1 - V	A2 - 4									
ADDRESS 23 INPUT	15	P1 - W	A2 - 5									
SHLD GND	15B	*A2 - 4	A2 - 6									
PWR SUP FAULT	17	P1 - Y	A2 - 7									
PWR SUP FAULT	17	P1 - Z	A2 - 8									
SHLD GND	17B	*A2 - 7	A2 - 9									
EXT BLK RCVR 1	19	P1 - *C	A2 - 10									
EXT BLK RCVR 2	19	P1 - *D	A2 - 11									
SHLD GND	19B	*A2 - 10	A2 - 12									
EXT BLK RCVR 3	20	P1 - *E	A2 - 13									
EXT BLK RCVR 4	20	P1 - *F	A2 - 14									
SHLD GND	20B	*A2 - 13	A2 - 15									
TEMP FAULT	22	P1 - *H	A2 - 16									
TEMP FAULT	22	P1 - *J	A2 - 17									
SHLD GND	22B	*A2 - 16	A2 - 18									
ADDRESS RTN	40	J1 - *A	A2 - 19									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 SHEET 11 REV

COMPONENT A2

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
ADDRESS 25 INPUT	40	J1 - U	A2 - 20									
ADDRESS 24 INPUT	41	J1 - V	A2 - 21									
ADDRESS 23 INPUT	41	J1 - W	A2 - 22									
PWR SUP FAULT	43	J1 - Y	A2 - 23									
PWR SUP FAULT	43	J1 - Z	A2 - 24									
EXT BLK RCVR 1	45	J1 - *C	A2 - 25									
EXT BLK RCVR 2	45	J1 - *D	A2 - 26									
EXT BLK RCVR 3	46	J1 - *E	A2 - 27									
EXT BLK RCVR 4	46	J1 - *F	A2 - 28									
TEMP FAULT	48	J1 - *H	A2 - 29									
TEMP FAULT	48	J1 - *J	A2 - 30									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 SHEET 12 REV

COMPONENT E1-E2

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
CHASSIS GND	25	W1P1 -OTSH	E1									
CHASSIS GND	26	W1P1 -OTSH	E1									
GND	35	J1 - J	E2									
SHLD GND	39A	*J1 - S	E2									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST C5075834

CODE IDENT 57958 SHEET 13 REV

C5075834 REV-N/C

WIRE HARNESS SUMMARY
DATA 10/10/83
PAGE 1

ITEM#	KEY	QTY	WIRE NUMBERS
32	TSP	1	39
33	TP	9	36 37 38 40 41 43 45 46 48
35	STR	9	1 2 9 21 27 28 35 47 39A
36	STR	33	10 11 12 13 14 15 17 19 20 22 24 25 26 10A 10B 11A 11B 12A 12B 13A 13B 14A 14B 15A 15B 17A 17B 19A 19B 20A 20B 22A 22B

Table 5-10.1. Filter Assembly (A11), Wire List

NOTES : UNLESS OTHERWISE SPECIFIED

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE DESIGNATION, PREFIX WITH UNIT NUMBER AND ASSEMBLY DESIGNATION
2. REFER TO RPSTL, APPENDIX C FOR WIRE TYPE INFORMATION. ITEM NUMBERS ON THIS WIRE LIST ARE NOT APPLICABLE
3. REF SCHEMATIC DIAGRAM C5075833, F0-5
4. LENGTH OF WIRE TO BE DETERMINED AT ASSEMBLY
5. WIRING PROCEDURE PER MIL-STD-454, REQ 20, SOLDER PER MIL-STD-454, REQ 5
6. IDENTIFICATION OF WIRE PER MIL-STD-681, SYSTEM IV
7. PART OF C5146986 (CABLE ASSY SP, W1)
8. ★ PRECEDING CONNECTOR INDICATES "SHIELD OF WIRE AT" - EG "*CB1-1" INDICATES "SHIEL OF WIRE AT CB1-1"
   * PRECEDING PIN LETTER INDICATES LOWER CASE LETTER
9. UNLISTED PINS ARE NOT CONNECTED
10. FOR HARNESS SUMMARY SEE SHEET 14 OF THIS WIRE LIST

COMPONENT P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
SHLD GND			P1-A	1	P1-B	000	14		STR	7		24 AWG BLK
SHLD GND	1	P1-A	P1-B	2	P1-N	000	14		STR	7		24 AWG BLK
			P1-C	3								NC
			P1-D	4								NC
			P1-E	5								NC
			P1-F	6								NC
			P1-G	7								NC
			P1-H	8								NC
			P1-J	9								NC
			P1-K	10								NC
			P1-L	11								NC
			P1-M	12								NC
CHASSIS GND	2	P1-B	P1-N	13	E1	000	14		STR	7		24 AWG BLK TO ITEM 5
STD AUD HI RCVR1			P1-P	14	A1-E1	000	10		TSP	7		24 AWG BLK
STD AUD LO RCVR 1			P1-R	14	A1-E2	999						24 AWG WHT
AUX AUD RTN RCVR 1			P1-T	14A	*P1-P	000	14		STR	7		24 AWG BLK
AUX AUD RCVR 1			P1-S	15	A1-F9		11		COAX			
SHLD GND			*P1-S	15A	*P1-W	000	14		STR	7		24 AWG BLK

KEY: TSP - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
MW - MINI WRAP

WIRE LIST C5146988

CODE IDENT 57958 | SHEET 3 | REV _

COMPONENT P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
STD AUD HI RCVR 2			P1-U	16	A1-E3	000	10		TSP	7		24 AWG BLK
STD AUD LO RCVR 2			P1-V	16	A1-E4	990						24 AWG WHT
AUX AUD RTN RCVR 2			P1-X	16A	*P1-U	000	14		STR	7		24 AWG BLK
AUX AUD RCVR 2			P1-W	17	A1-E10		11		COAX			
SHLD GND	15A	*P1-S	*P1-W	17A	*P1-*A	000	14		STR	7		24 AWG BLK
STD AUD HI RCVR 3			P1-Y	18	A2-E1	000	10		TSP	7		24 AWG BLK
STD AUD LO RCVR 3			P1-Z	18	A2-E2	999						24 AWG WHT
AUX AUD RTN RCVR 3			P1-*B	18A	*P1-Y	000	14		STR	7		24 AWG BLK
AUX AUD RCVR 3			P1-*A	19	A2-E9		11		COAX			
SHLD GND	17A	*P1-W	*P1-*A	19A	*P1-*E	000	14		STR	7		24 AWG BLK
STD AUD HI RCVR 4			P1-*C	20	A2-E3	000	10		TSP	7		24 AWG BLK
STD AUD LO RCVR 4			P1-*D	20	A2-E4	999						24 AWG WHT
AUX AUD RTN RCVR 4			P1-*F	20A	*P1-*C	000	14		STR	7		24 AWG BLK
AUX AUD RCVR 4			P1-*E	21	A2-E10		11		COAX			
SHLD GND	19A	*P1-*A	*P1-*E	21A	P1-A	000	14		STR	7		24 AWG BLK
AGC RCVR 1			P1-*G	22	A1-E5		11		COAX			
AGC RTN 1			P1-*H	22A	*P1-*G	000	14		STR	7		24 AWG BLK
AGC RCVR 2			P1-*I	23	A1-E6		11		COAX			
AGC RTN 2			P1-*J	23A	*P1-*I	000	14		STR	7		24 AWG BLK

KEY: TST - TWISTED SHIELDED TRIPLE, TSP - TWISTED SHIELDED PAIR, TT - TWISTED TRIPLE, TP - TWISTED PAIR, COAX - COAXIAL, SHLD - SHIELDED, SOL - SOLID, STR - STRANDED, WW - WIRE WRAP

WIRE LIST C5146988

CODE IDENT 57958 | SHEET 4 | REV –

COMPONENT P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
AGC RCVR 3			P1-*K	24	A2-E5		11		COAX	7		
AGC RTN 3			P1-*M	24A	*P1-*K	000	14		STR	7		24 AWG BLK
AGC RCVR 4			P1-*N	25	A2-E6		11		COAX	7		
AGC RTN 4			P1-*P	25A	*P1-*N	000	14		STR	7		24 AWG BLK
ISB AUD RCVR 1			P1-*Q	26	A1-E7		11		COAX	7		
SHLD GND			*P1-*Q	26A	*P1-*R	000	14		STR	7		24 AWG BLK
ISB AUD RCVR 2			P1-*R	27	A1-E8		11		COAX	7		
SHLD GND	26A	*P1-*Q	*P1-*R	27A	*P1-*S	000	14		STR	7		24 AWG BLK
ISB AUD RCVR 3			P1-*S	28	A2-E7		11		COAX	7		
SHLD GND	27A	*P1-*R	*P1-*S	28A	*P1-*T	000	14		STR	7		24 AWG BLK
ISB AUD RCVR 4			P1-*T	29	A2-E8		11		COAX	7		
SHLD GND	28A	*P1-*S	*P1-*T	29A	E1	000	14		STR	7		24 AWG BLK TO ITEM 5

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

WIRE LIST C5146988

CODE IDENT 57958 | SHEET 5 | REV _

COMPONENT J1

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
SHLD GND			J1-A	30	J1-B	000	33		STR			24 AWG BLK
SHLD GND	1	J1-A	J1-B	31	J1-N	000	33		STR			24 AWG BLK
			J1-C	32								NC
			J1-D	33								NC
			J1-E	34								NC
			J1-F	35								NC
			J1-G	36								NC
			J1-H	37								NC
			J1-J	38								NC
			J1-K	39								NC
			J1-L	40								NC
			J1-M	41								NC
CHASSIS GND	2	J1-B	J1-N	42	E2	000	33		STR			24 AWG BLK TO ITEM 20
STD AUD HI RCVR 1			J1-P	43	A1-E11	000	32		TSP			24 AWG BLK
STD AUD LO RCVR 1			J1-R	43	A1-E12	999						24 AWG WHT
AUX AUD RTN RCVR 1			J1-T	43A	*J1-P	000	33		STR			24 AWG BLK
AUX AUD RCVR 1			J1-S	44	A1-E19		35		COAX			
SHLD GND			*J1-S	44A	*J1-W	000	33		STR			24 AWG BLK

KEY: TSP - TWISTED SHIELDED TRIPLE TP - TWISTED PAIR TSP - TWISTED SHIELDED PAIR TT - TWISTED TRIPLE SHLD - SHIELDED COAX - COAXIAL SOL - SOLID STR - STRANDED MW - MINI WRAP

WIRE LIST C5146988

CODE IDENT 57958 SHEET 6 REV _

COMPONENT J1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
STD AUD HI RCVR 2			J1-U	45	A1-E13	000	32		TSP			24 AWG BLK
STD AUD LO RCVR 2			J1-V	45	A1-E14							24 AWG WHT
AUX AUD RTN RCVR 2			J1-X	45A	*J1-U	000	33		STR			24 AWG BLK
AUX AUD RCVR 2			J1-W	46	A1-E20		35		COAX			
SHLD GND	44A	*J1-S	*J1-W	46A	*J1-*A	000	33		STR			24 AWG BLK
STD AUD HI RCVR 3			J1-Y	47	A2-E11	000	32		TSP			24 AWG BLK
STD AUD LO RCVR 3			J1-Z	47	A2-E12	999						24 AWG WHT
AUX AUD RTN RCVR 3			J1-*B	47A	*J1-Y	000	33		STR			24 AWG BLK
AUX AUD RCVR 3			J1-*A	48	A2-E19		35		COAX			
SHLD GND	46A	*J1-W	*J1-*A	48A	*J1-*E	000	33		STR			24 AWG BLK
STD AUD HI RCVR 4			J1-*C	49	A2-E13	000	32		TSP			24 AWG BLK
STD AUD LO RCVR 4			J1-*D	49	A2-E14	999						24 AWG WHT
AUX AUD RTN RCVR 4			J1-*F	49A	*J1-*C	000	33		STR			24 AWG BLK
AUX AUD RCVR 4			J1-*E	50	A2-E20		35		COAX			
SHLD GND	48A	*J1-*A	*J1-*E	50A	J1-A	000	33		STR			24 AWG BLK
AGC RCVR 1			J1-*G	51	A1-E15		35		COAX			
AGC RTN 1			J1-*H	51A	*J1-*G	000	33		STR			24 AWG BLK
AGC RVCR 2			J1-*I	52	A1-E16		35		COAX			
AGC RTN 2			J1-*J	52A	*J1-*I	000	33		STR			24 AWG BLK

KEY: TSP - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
MW - MINI WIRE

WIRE LIST C5146988

CODE IDENT 57958 SHEET 7 REV _

COMPONENT J1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
AGC RCVR 3			J1-*K	53	A2-E15		35		COAX			
AGC RTN 3			J1-*M	53A	*JL-*K	000	33		STR			24 AWG BLK
AGC RCVR 4			J1-*N	54	A2-E16		35		COAX			
AGC RTN 4			J1-*P	54A	*J1-*N	000	33		STR			24 AWG BLK
ISB AUD RCVR 1			J1-*Q	55	A1-E17		35		COAX			
SHLD GND			*J1-*Q	55A	*J1-*R	000	33		STR			24 AWG BLK
ISB AUD RCVR 2			J1-*R	56	A1-E18		35		COAX			
SHLD GND	55A	*J1-*Q	*J1-*R	56A	*J1-*S	000	33		STR			24 AWG BLK
ISB AUD RCVR 3			J1-*S	57	A2-E17		35		COAX			
SHLD GND	56A	*J1-*R	*J1-*S	57A	*J1-*T	000	33		STR			24 AWG BLK
ISB AUD RCVR 4			J1-*T	58	A2-E18		35		COAX			
SHLD GND	57A	*J1-*S	*J1-*T	58A	E2	000	33		STR			24 AWG BLK TO ITEM 20

KEY: TSJ - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

WIRE LIST C5146988

CODE IDENT 57958 SHEET 8 REV _

COMPONENT A1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
STD AUD HI RCVR 1	14	P1-P	A1-E1									
STD AUD LO RCVR 1	14	P1-R	A1-E2									
STD AUD HI RCVR 2	16	P1-U	A1-E3									
STD AUD LO RCVR 2	16	P1-V	A1-E4									
AGC RCVR 1	22	P1-*G	A1-E5									
AGC RCVR 2	23	P1-*I	A1-E6									
ISB AUD RCVR 1	26	P1-*Q	A1-E7									
ISB AUD RCVR 2	27	P1-*R	A1-E8									
AUX AUD RCVR 1	15	P1-S	A1-E9									
AUX AUD RCVR 2	17	P1-W	A1-E10									
STD AUD HI RCVR 1	43	J1-P	A1-E11									
STD AUD LO RCVR 1	43	J1-R	A1-E12									
STD AUD HI RCVR 2	45	J1-U	A1-E13									
STD AUD LO RCVR 2	45	J1-V	A1-E14									
AGC RCVR 1	51	J1-*G	A1-E15									
AGC RCVR 2	52	J1-*I	A1-E16									
ISB AUD RCVR 1	55	J1-*Q	A1-E17									
ISB AUD RCVR 2	56	J1-*R	A1-E18									
AUX AUD RCVR 1	44	J1-S	A1-E19									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
MW - MINI WIRE

WIRE LIST C5146988

CODE IDENT 57958 | SHEET 9 | REV _

COMPONENT A1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
AUX AUD RCVR 2	46	J1-W	A1-E20									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
MW - MINI WIRE

WIRE LIST C5146988

CODE IDENT 57958 | SHEET 10 | REV _

COMPONENT A2

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
STD AUD HI RCVR 3	18	P1-Y	A2-E1									
STD AUD LO RCVR 3	18	P1-Z	A2-E2									
STD AUD HI RCVR 4	20	P1-*C	A2-E3									
STD AUD LO RCVR 4	20	P1-*D	A2-E4									
AGC RCVR 3	24	P1-*K	A2-E5									
AGC RCVR 4	25	P1-*N	A2-E6									
ISB AUD RCVR 3	28	P1-*S	A2-E7									
ISB AUD RCVR 4	29	P1-*T	A2-E8									
AUX AUD RCVR 3	19	P1-*A	A2-E9									
AUX AUD RCVR 4	21	P1-*E	A2-E10									
STD AUD HI RCVR 3	47	J1-Y	A2-E11									
STD AUD LO RCVR 3	47	J1-Z	A2-E12									
STD AUD HI RCVR 4	49	J1-*C	A2-E13									
STD AUD LO RCVR 4	49	J1-*D	A2-E14									
AGC RCVR 3	53	J1-*K	A2-E15									
AGC RCVR 4	54	J1-*N	A2-E16									
ISB AUD RCVR 3	57	J1-*S	A2-E17									
ISB AUD RCVR 4	58	J1-*T	A2-E18									
AUX AUD RCVR 3	48	J1-*A	A2-E19									

KEY: TSI - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
MW - MINI-WRAP

WIRE LIST C5146988

CODE IDENT 57958 | SHEET 11 | REV _

COMPONENT A2

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO	LOCATION										
AUX AUD RCVR 4	50	J1-*2	A2-E20									

KEY: IST - TWISTED SHIELDED TRIPLE ISP - TWISTED SHIELDED PAIR IT - TWISTED TRIPLE TP - TWISTED PAIR COAX - COAXIAL SHLD - SHIELDED SOL - SOLID STR - STRANDED MW - MINI WRAP

WIRE LIST C5146988

CODE IDENT 57958 | SHEET 12 | REV _

COMPONENT

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
CHASSIS GND	13	P1-N	E1									
SHLD GND	29A	*P1-*T	E1									
CHASSIS GND	42	J1-N	E2									
SHLD GND	58A	*J1-*T	E2									

KEY: TSP - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
MW - MULTI WIRE

WIRE LIST C5146988

CODE IDENT 57958 | SHEET 13 | REV _

ITEM NO.	KEY	QTY	WIRE NUMBERS
10	TSP	4	14 16 18 20
11	COAX	12	15 17 19 21 22 23 24 25 26 27 28 29
14	STR	19	1 2 13 14A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 27A 28A 29A
32	TSP	4	43 45 47 49
33	STR	19	30 31 42 43A 44A 45A 46A 47A 48A 49A 50A 51A 52A 53A 54A 55A 56A 57A 58A
35	COAX	12	44 46 48 50 51 52 53 54 55 56 57 58

Table 5-11. Receiver Set, Wire List

NOTES : UNLESS OTHERWISE SPECIFIED

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE DESIGNATION, PREFIX WITH UNIT NUMBER AND ASSEMBLY DESIGNATION
2. REFER TO RPSTL, APEENDIX C FOR WIRE TYPE INFORMATION. ITEM NUMBERS ON THIS WIRE LIST ARE NOT APPLICABLE
3. REF SCHEMATIC DIAGRAM F0-1
4. LENGTH OF WIRE TO BE DETERMINED AT ASSEMBLY
5. WIRING PROCEDURE PER MIL-STD-454, REQT 20, SOLDER PER MIL-STD-454, REQT 5
6. IDENTIFICATION OF WIRE PER MIL-STD0681, SYSTEM IV
7. PREWIRED CONNECTOR INDICATES “SHIELD OF WIRE AT - “EG*CB1-1 INDICATES “SHIELD OF WIRE AT CB1-1”
8. UNLISTED PINS ARE NOT CONNECTED
9. FOR WIRE HARNESS SUMMARY SHEET SHEETS 55-56 OF THIS WIRE LIST
10. TWIST THESE WIRES TOGETHER TO FORM A TWISTED-PAIR
11. PRE-WIRED CONNECTOR
12. THE INTRODUCTORY INFORMATION SUPPLIED ON SHEETS 1 AND 2 OF THE ORIGINAL COMPUTER GENERATED DOCUMENT IS SUMMARIZED ABOVE

COMPONENT J23

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
GND			J23 - A	2	E5	000	124		STR			22AWG BLACK
GND			J23 - B	3	E5	000	124		STR			22AWG BLACK
			J23 - C	4								NC
			J23 - D	5								NC
			J23 - E	6								NC
			J23 - F	7								NC
			J23 - G	8								NC
			J23 - H	9								NC
			J23 - J	10								NC
			J23 - K	11								NC
			J23 - L	12								NC
			J23 - M	13								NC
GND			J23 - N	14	E5	000	124		STR			22AWG BLACK
STD AUD HI RCVRI			J23 - P	15	XA1P1- 34	999	125		TSP			24AWG WHITE
STD AUD LO RCVRI			J23 - R	15	XA1P1- 35	000						24AWG BLACK
SHLD GND			*J23 - P	15A	J23 - T	000	122		STR			24AWG BLACK
SHLD GND			*A1P1- 34	15B	XA1P1- 14	000	122		STR			24AWG BLACK
AUX AUDIO RCVR 1			J23 - S	16	XA1P1- 37	999	120		STR			24AWG WHITE
SHLD GND	15A	*J23 - P	J23 - T									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 3 REV D

COMPONENT J23

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
STD AUD HI RCVR2			J23 - U	18	XA2P1- 34	999	125		TSP			24AWG WHITE
STD AUD LC RCVR2			J23 - V	18	XA2P1- 35	000						24AWG BLACK
SHLD GND			*J23 - U	18A	J23 - X	000	122		STR			24AWG BLACK
SHLD GND			*A2P1- 34	18B	XA2P1- 14	000	122		STR			24AWG BLACK
AUX AUDIO RCVR 2			J23 - W	19	XA2P1- 37	999	120		STR			24AWG WHITE
SHLD GND	18A	*J23 - U	J23 - X									
STD AUD HI RCVR3			J23 - Y	21	XA3P1- 34	999	125		TSP			24AWG WHITE
STD AUD LC RCVR3			J23 - Z	21	XA3P1- 35	000						24AWG BLACK
SHLD GND			*J23 - Y	21A	J23 - *B	000	122		STR			24AWG BLACK
SHLD GND			*A3P1- 34	21B	XA3P1- 14	000	122		STR			24AWG BLACK
AUX AUDIO RCVR 3			J23 - *A	22	XA3P1- 37	999	120		STR			24AWG WHITE
SHLD GND	21A	*J23 - Y	J23 - *B									
STD AUD HI RCVR4			J23 - *C	24	XA4P1- 34	999	125		TSP			24AWG WHITE
STD AUD LC RCVR4			J23 - *D	24	XA4P1- 35	000						24AWG BLACK
SHLD GND			*J23 - *C	24A	J23 - *F	000	122		STR			24AWG BLACK
SHLD GND			*A4P1- 34	24B	XA4P1- 14	000	122		STR			24AWG BLACK
AUX AUDIO RCVR 4			J23 - *E	25	XA4P1- 37	999	120		STR			24AWG WHITE
SHLD GND	24A	*J23 - *C	J23 - *F									
AGC RCVR 1			J23 - *G	27	XA1P1- 16	999	120		STR			24AWG WHITE

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 4 REV D

COMPONENT J23

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
AGC RTN 1			J23 - *H	28	E5	000	122		STR			24AWG BLACK
AGC RCVR 2			J23 - *I	29	XA2P1- 16	999	120		STR			24AWG WHITE
AGC RTN 2			J23 - *J	30	E5	000	122		STR			24AWG BLACK
AGC RCVR 3			J23 - *K	31	XA3P1- 16	999	120		STR			24AWG WHITE
AGC RTN 3			J23 - *M	32	E5	000	122		STR			24AWG BLACK
AGC RCVR 4			J23 - *N	33	XA4P1- 16	999	120		STR			24AWG WHITE
AGC RTN 4			J23 - *P	34	E5	000	122		STR			24AWG BLACK
ISB AUDIO RCVR1			J23 - *C	35	XA1P1- 36	999	120		STR			24AWG WHITE
ISB AUDIO RCVR2			J23 - *R	36	XA2P1- 36	999	120		STR			24AWG WHITE
ISB AUDIO RCVR3			J23 - *S	37	XA3P1- 36	999	120		STR			24AWG WHITE
ISB AUDIO RCVR4			J23 - *T	38	XA4P1- 36	999	120		STR			24AWG WHITE

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 5 REV D

COMPONENT J24

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
GND			J24 - A	40	E5	000	124		STR			22AWG BLACK
GND			J24 - B	41	E5	000	124		STR			22AWG BLACK
			J24 - C	42								NC
			J24 - D	43								NC
			J24 - E	44								NC
			J24 - F	45								NC
			J24 - G	46								NC
			J24 - H	47								NC
GND			J24 - J	48	E5	000	124		STR			22AWG BLACK
STROBE(+)	79	J25 - M	J24 - K	49	XA4P1- 27	999	127		TP			24AWG WHITE
STROBE(-)	79	J25 - N	J24 - L	49	XA4P1- 28	000						24AWG BLACK
CLOCK(+)	80	J25 - P	J24 - M	50	XA4P1- 29	999	127		TP			24AWG WHITE
CLOCK(-)	80	J25 - R	J24 - N	50	XA4P1- 30	000						24AWG BLACK
DATA(+)	81	J25 - S	J24 - P	51	XA4P1- 31	999	127		TP			24AWG WHITE
DATA(-)	81	J25 - T	J24 - R	51	XA4P1- 32	000						24AWG BLACK
5MHZ REF CSC(+)			J24 - S	52	XA05 - 14	999	125		TSP			24AWG WHITE
5MHZ REF CSC(-)			J24 - T	52	XA05 - 15	000						24AWG BLACK
SHLD GND			*J24 - S	52A	E5	000	122		STR			24AWG BLACK
SHLD GND			*XA05- 14	52B	XA05 - 16	000	122		STR			24AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 6 REV D

COMPONENT J24

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
ADRS 2(5)			J24 - U	53	XA4P1- 02	999	120		STR			24AWG WHITE
ADRS 2(4)			J24 - V	54	XA4P1- 03	999	120		STR			24AWG WHITE
ADRS 2(3)			J24 - W	55	XA4P1- 04	999	120		STR			24AWG WHITE
			J24 - X	56								NC
RS PWR SPLY(+)	253	P01 - 07	J24 - Y									
RS PWR SPLY(-)	272	P01 - 26	J24 - Z									
ADRS RTN			J24 - *A	57	E5	000	124		STR			22AWG BLACK
			J24 - *B	58								NC
EXT BLK RCVR 1			J24 - *C	59	XA1P2- A6	999	128		SHLD			24AWG SHIELDED
EXT BLK RCVR 2			J24 - *D	60	XA2P2- A6	999	128		SHLD			24AWG SHIELDED
EXT BLK RCVR 3			J24 - *E	61	XA3P2- A6	999	128		SHLD			24AWG SHIELDED
EXT BLK RCVR 4			J24 - *F	62	XA4P2- A6	999	128		SHLD			24AWG SHIELDED
GND			J24 - *G	63	E5	000	124		STR			22AWG BLACK
RS TEMP FAULT(+)			J24 - *H	64	XA05 - 02	999	120		STR			24AWG WHITE
			J24 - *I	65								NC
RS TEMP FAULT(-)			J24 - *J	66	XA05 - 32	999	120		STR			24AWG WHITE

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 7 REV 0

COMPONENT J25

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
GND			J25 - A	68	E5	000	124		STR			22AWG BLACK
GND			J25 - B	69	E5	000	124		STR			22AWG BLACK
			J25 - C	70								NC
			J25 - D	71								NC
			J25 - E	72								NC
			J25 - F	73								NC
			J25 - G	74								NC
			J25 - H	75								NC
			J25 - J	76								NC
			J25 - K	77								NC
GND			J25 - L	78	E5	000	124		STR			22AWG BLACK
STROBE(+)			J25 - M	79	J24 - K	999	127		TP			24AWG WHITE
STROBE(-)			J25 - N	79	J24 - L	000						24AWG BLACK
CLOCK(+)			J25 - P	80	J24 - M	999	127		TP			24AWG WHITE
CLOCK(-)			J25 - R	80	J24 - N	000						24AWG BLACK
DATA(+)			J25 - S	81	J24 - P	999	127		TP			24AWG WHITE
DATA(-)			J25 - T	81	J24 - R	000						24AWG BLACK
STROBE(+)			J25 - U	82	XA1P1- 27	999	127		TP			24AWG WHITE
STROBE(-)			J25 - V	82	XA1P1- 28	000						24AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE; TT - TWISTED TRIPLE; COAX - COAXIAL; SOL - SOLID
TSP - TWISTED SHIELDED PAIR; TP - TWISTED PAIR; SHLD - SHIELDED; STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 8 REV D

COMPONENT J25

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
CLOCK(+)			J25 - W	83	XA1P1- 29	999	127		TP			24AWG WHITE
CLOCK(-)			J25 - X	83	XA1P1- 30	000						24AWG BLACK
DATA(+)			J25 - Y	84	XA1P1- 31	999	127		TP			24AWG WHITE
DATA(-)			J25 - Z	84	XA1P1- 32	000						24AWG BLACK
BIT 55 RCVR 2			J25 - *A	85	XA2P1- 15	999	120		STR			24AWG WHITE
BIT 63 RCVR 2			J25 - *B	86	XA2P1- 01	999	120		STR			24AWG WHITE
ENCLOSE FAULT(+)			J25 - *C	87	XA05 - 10	999	120		STR			24AWG WHITE
ENCLOSE FAULT(-)			J25 - *D	88	XA05 - 11	999	120		STR			24AWG WHITE
AGC RCVR 1			J25 - *E	89	XA1P1- 16	999	120		STR			24AWG WHITE
AGC RTN RCVR 1			J25 - *F	90	E5	000	122		STR			24AWG BLACK
AGC RCVR 2			J25 - *G	91	XA2P1- 16	999	120		STR			24AWG WHITE
AGC RTN RCVR 2			J25 - *H	92	E5	000	122		STR			24AWG BLACK
			J25 - *I	93								NC
GROUND			J25 - *J	94	E5	000	122		STR			24AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 | SHEET 9 | REV D

COMPONENT XA1P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			XA1P1- 01	96								NC
ADRS 2(5)	120	XA2P1- 02	XA1P1- 02									
ADRS 2(4)	121	XA2P1- 03	XA1P1- 03									
ADRS 2(3)	122	XA2P1- 04	XA1P1- 04									
ADRS 2(2)			XA1P1- 05	97	E2	000	122		STR			24AWG BLACK
ADRS 2(1)			XA1P1- 06	98	E2	000	122		STR			24AWG BLACK
ADRS 2(0)			XA1P1- 07	99	E2	000	122		STR			24AWG BLACK
			XA1P1- 08	100								NC
+36V			XA1P1- 09	101	TB1 - 4H	999	121		STR			22AWG WHITE
			XA1P1- 10	102								NC
GROUND			XA1P1- 11	103	E2	000	122		STR			24AWG BLACK
+96V			XA1P1- 12	104	TB1 - 5H	999	121		STR			22AWG WHITE
GROUND			XA1P1- 13	105	E2	000	122		STR			24AWG BLACK
SHLD GND	158	*A1P1- 34	XA1P1- 14									
			XA1P1- 15	107								NC
AGC RCVR 1	27	J23 - *G	XA1P1- 16									
AGC RCVR 1	89	J25 - *E	XA1P1- 16									
+20V			XA1P1- 17	108	TB1 - 2H	999	121		STR			22AWG WHITE
-20V			XA1P1- 18	109	TB1 - 3H	999	121		STR			22AWG WHITE

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 10 REV D

COMPONENT XA1P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
+8.1V			XA1P1- 19	110	TB1 - 1H	999	121		STR			22AWG WHITE
			XA1P1- 20	111								NC
			XA1P1- 21	112								NC
			XA1P1- 22	113								NC
			XA1P1- 23	114								NC
			XA1P1- 24	115								NC
			XA1P1- 25	116								NC
			XA1P1- 26	117								NC
STROBE(+)	82	J25 - U	XA1P1- 27									
STROBE(-)	82	J25 - V	XA1P1- 28									
CLOCK(+)	83	J25 - W	XA1P1- 29									
CLOCK(-)	83	J25 - X	XA1P1- 30									
DATA(+)	84	J25 - Y	XA1P1- 31									
DATA(-)	84	J25 - Z	XA1P1- 32									
			XA1P1- 33	118								NC
STC AUC HI RCVR1	15	J23 - P	XA1P1- 34									
STC AUC LC RCVR1	15	J23 - R	XA1P1- 35									
ISB AUDIO RCVR1	35	J23 - *Q	XA1P1- 36									
AUX AUDIO RCVR 1	16	J23 - S	XA1P1- 37									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 11 REV D

COMPONENT XA1P2

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			XA1P2- A1									P/O W1
			XA1P2- A2									NC
			XA1P2- A3									NC
			XA1P2- A4									P/O W9
			XA1P2- A5									P/O W5
EXT ELK RCVR 1	59	J24 - *C	XA1P2- A6									
			XA1P2- A7									P/O W17
RCVR SPHZ REF1	240	XA05 - 43	XA1P2- A8									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 12 REV D

COMPONENT XA2P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
BIT 83 RCVR 2	86	J25 - *B	XA2P1- 01									
ADRS 2(5)	146	XA3P1- 02	XA2P1- 02	120	XA1P1- 02	999	120		STR			24AWG WHITE
ADRS 2(4)	147	XA3P1- 03	XA2P1- 03	121	XA1P1- 03	999	120		STR			24AWG WHITE
ADRS 2(3)	148	XA3P1- 04	XA2P1- 04	122	XA1P1- 04	999	120		STR			24AWG WHITE
ADRS 2(2)			XA2P1- 05	123	E2	000	122		STR			24AWG BLACK
			XA2P1- 06	124								NC
ADRS 2(0)			XA2P1- 07	125	E2	000	122		STR			24AWG BLACK
			XA2P1- 08	126								NC
+36V			XA2P1- 09	127	TB1 - 4J	999	121		STR			22AWG WHITE
			XA2P1- 10	128								NC
GROUND			XA2P1- 11	129	E2	000	122		STR			24AWG BLACK
+96V			XA2P1- 12	130	TB1 - 5J	999	121		STR			22AWG WHITE
GROUND			XA2P1- 13	131	E2	000	122		STR			24AWG BLACK
SHLD GND	188	*A2P1- 34	XA2P1- 14									
BIT 55 RCVR 2	85	J25 - *A	XA2P1- 15									
AGC RCVR 2	29	J23 - *E	XA2P1- 16									
AGC RCVR 2	91	J25 - *G	XA2P1- 16									
+20V			XA2P1- 17	133	TB1 - 2J	999	121		STR			22AWG WHITE
-20V			XA2P1- 18	134	TB1 - 3J	999	121		STR			22AWG WHITE

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 13 REV C

COMPONENT XA2P1

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
+8.1V			XA2P1- 19	135	TB1 - 1J	000	121		STR			22AWG WHITE
			XA2P1- 20	136								NC
			XA2P1- 21	137								NC
			XA2P1- 22	138								NC
			XA2P1- 23	139								NC
			XA2P1- 24	140								NC
			XA2P1- 25	141								NC
			XA2P1- 26	142								NC
STROBE(+)	170	XA3P1- 27	XA2P1- 27									
STROBE(-)	170	XA3P1- 28	XA2P1- 28									
CLOCK(+)	171	XA3P1- 29	XA2P1- 29									
CLOCK(-)	171	XA3P1- 30	XA2P1- 30									
DATA(+)	172	XA3P1- 31	XA2P1- 31									
DATA(-)	172	XA3P1- 32	XA2P1- 32									
			XA2P1- 33	143								NC
STC AUD HI RCVR2	18	J23 - U	XA2P1- 34									
STC AUD LO RCVR2	18	J23 - V	XA2P1- 35									
ISB AUDIO RCVR2	36	J23 - *R	XA2P1- 36									
AUX AUDIO RCVR 2	19	J23 - H	XA2P1- 37									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 14 REV 0

COMPONENT XA2P2

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			XA2P2- A1									P/O W2
			XA2P2- A2									NC
			XA2P2- A3									NC
			XA2P2- A4									P/O W10
			XA2P2- A5									P/O W6
EXT CLK RCVR 2	60	J24 - *D	XA2P2- A6									
			XA2P2- A7									P/O W18
RCVR 5*H2 REF 2	237	XA05 - 40	XA2P2- A8									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 15 REV D

COMPONENT XA3P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			XA3P1- 01	145								NC
ADRS 2(5)	176	XA4P1- 02	XA3P1- 02	146	XA2P1- 02	999	120		STR			24AWG WHITE
ADRS 2(4)	177	XA4P1- 03	XA3P1- 03	147	XA2P1- 03	999	120		STR			24AWG WHITE
ADRS 2(3)	178	XA4P1- 04	XA3P1- 04	148	XA2P1- 04	999	120		STR			24AWG WHITE
			XA3P1- 05	149								NC
ADRS 2(1)			XA3P1- 06	150	E3	000	122		STR			24AWG BLACK
ADRS 2(0)			XA3P1- 07	151	E3	000	122		STR			24AWG BLACK
			XA3P1- 08	152								NC
+36V			XA3P1- 09	153	TB1 - 4E	999	121		STR			22AWG WHITE
			XA3P1- 10	154								NC
GROUND			XA3P1- 11	155	E3	000	122		STR			24AWG BLACK
+96V			XA3P1- 12	156	TB1 - 5E	999	121		STR			22AWG WHITE
GROUND			XA3P1- 13	157	E3	000	122		STR			24AWG BLACK
SHLD GND	218	*A3P1- 34	XA3P1- 14									
			XA3P1- 15	159								NC
AGC RCVR 3	31	J23 - *K	XA3P1- 16									
+20V			XA3P1- 17	160	TB1 - 2E	999	121		STR			22AWG WHITE
-20V			XA3P1- 18	161	TB1 - 3E	999	121		STR			22AWG WHITE
+8.1V			XA3P1- 19	162	TB1 - 1E	000	121		STR			22AWG WHITE

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 16 REV D

COMPONENT XA3P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			XA3P1- 20	163								NC
			XA3P1- 21	164								NC
			XA3P1- 22	165								NC
			XA3P1- 23	166								NC
			XA3P1- 24	167								NC
			XA3P1- 25	168								NC
			XA3P1- 26	169								NC
STROBE(+)	200	XA4P1- 27	XA3P1- 27	170	XA2P1- 27	999	127		TP			24AWG WHITE
STROBE(-)	200	XA4P1- 28	XA3P1- 28	170	XA2P1- 28	000						24AWG BLACK
CLOCK(+)	201	XA4P1- 29	XA3P1- 29	171	XA2P1- 29	999	127		TP			24AWG WHITE
CLOCK(-)	201	XA4P1- 30	XA3P1- 30	171	XA2P1- 30	000						24AWG BLACK
DATA(+)	202	XA4P1- 31	XA3P1- 31	172	XA2P1- 31	999	127		TP			24AWG WHITE
DATA(-)	202	XA4P1- 32	XA3P1- 32	172	XA2P1- 32	000						24AWG BLACK
			XA3P1- 33	173								NC
STD AUD HI RCVR3	21	J23 - Y	XA3P1- 34									
STD AUD LC RCVR3	21	J23 - Z	XA3P1- 35									
ISB AUDIO RCVR3	37	J23 - *S	XA3P1- 36									
AUX AUDIO RCVR 3	22	J23 - *A	XA3P1- 37									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 | SHEET 17 | REV D

COMPONENT XA3P2

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			XA3P2- A1									P/O W3
			XA3P2- A2									NC
			XA3P2- A3									NC
			XA3P2- A4									P/O W11
			XA3P2- A5									P/O W7
EXT BLK RCVR 3	61	J24 - *E	XA3P2- A6									
			XA3P2- A7									P/O W19
RCVR 5MHZ REF 3	234	XA05 - 37	XA3P2- A8									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 18 REV 0

COMPONENT XA4P1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			XA4P1- 01	175								NC
ADRS 2(5)	53	J24 - U	XA4P1- 02	176	XA3P1- 02	999	120		STR			24AWG WHITE
ADRS 2(4)	54	J24 - V	XA4P1- 03	177	XA3P1- 03	999	120		STR			24AWG WHITE
ADRS 2(3)	55	J24 - W	XA4P1- 04	178	XA3P1- 04	999	120		STR			24AWG WHITE
			XA4P1- 05	179								NC
			XA4P1- 06	180								NC
ADRS 2(0)			XA4P1- 07	181	E3	000	122		STR			24AWG BLACK
			XA4P1- 08	182								NC
+36V			XA4P1- 09	183	TB1 - 4K	999	121		STR			22AWG WHITE
			XA4P1- 10	184								NC
GROUND			XA4P1- 11	185	E3	000	122		STR			24AWG BLACK
+96V			XA4P1- 12	186	TB1 - 5K	999	121		STR			22AWG WHITE
GROUND			XA4P1- 13	187	E3	000	122		STR			24AWG BLACK
SHLD GND	248	*A4P1- 34	XA4P1- 14									
			XA4P1- 15	189								NC
AGC RCVR 4	33	J23 - *N	XA4P1- 16									
+20V			XA4P1- 17	190	TB1 - 2K	999	121		STR			22AWG WHITE
-20V			XA4P1- 18	191	TB1 - 3K	999	121		STR			22AWG WHITE
+8.1V			XA4P1- 19	192	TB1 - 1K	999	121		STR			22AWG WHITE

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 19 REV D

COMPONENT XA4P1

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
			XA4P1- 20	193								NC
			XA4P1- 21	194								NC
			XA4P1- 22	195								NC
			XA4P1- 23	196								NC
			XA4P1- 24	197								NC
			XA4P1- 25	198								NC
			XA4P1- 26	199								NC
STROBE(+)	49	J24 - K	XA4P1- 27	200	XA3P1- 27	999	127		TP			24AWG WHITE
STROBE(-)	49	J24 - L	XA4P1- 28	200	XA3P1- 28	000						24AWG BLACK
CLOCK(+)	50	J24 - M	XA4P1- 29	201	XA3P1- 29	999	127		TP			24AWG WHITE
CLOCK(-)	50	J24 - N	XA4P1- 30	201	XA3P1- 30	000						24AWG BLACK
DATA(+)	51	J24 - P	XA4P1- 31	202	XA3P1- 31	999	127		TP			24AWG WHITE
DATA(-)	51	J24 - R	XA4P1- 32	202	XA3P1- 32	000						24AWG BLACK
			XA4P1- 33	203								NC
STC AUC HI RCVR4	24	J23 - *C	XA4P1- 34									
STC AUC LC RCVR4	24	J23 - *D	XA4P1- 35									
ISB AUDIO RCVR4	38	J23 - *T	XA4P1- 36									
AUX AUDIO RCVR 4	25	J23 - *E	XA4P1- 37									

KEY: TST - TWISTED SHIELDED TRIPLE; TT - TWISTED TRIPLE; COAX - COAXIAL; SOL - SOLID
TSP - TWISTED SHIELDED PAIR; TP - TWISTED PAIR; SHLD - SHIELDED; STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57956 SHEET 20 REV D

COMPONENT XA4P2

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			XA4P2- A1									P/O W4
			XA4P2- A2									NC
			XA4P2- A3									NC
			XA4P2- A4									P/O W12
			XA4P2- A5									P/O W8
EXT CLK RCVR 4	62	J24 - *F	XA4P2- A6									
			XA4P2- A7									P/O W20
RCVR 5*HZ REF 4	231	XA05 - 34	XA4P2- A8									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57956 SHEET 21 REV 0

COMPONENT XA05

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
TEMP INDIC			XA05 - 01	205	S03 - 01	999	120		STR			24AWG WHITE
RS TEMP FAULT(+)	64	J24 - *H	XA05 - 02									
			XA05 - 03	206								NC
			XA05 - 04	207								NC
OVERTEMP IND			XA05 - 05	209	A08 - 03	999	121		STR			22AWG WHITE
REF FAULT IND			XA05 - 06	208	A08 - 02	999	121		STR			22AWG WHITE
LAMP TEST			XA05 - 07	210	S02 - 01	999	121		STR			22AWG WHITE
PS STATUS	252	P01 - 06	XA05 - 08									
PS STATUS			XA05 - 09	211	E2	000	122		STR			24AWG BLACK
ENCLOSE FAULT(+)	87	J25 - *C	XA05 - 10									
ENCLOSE FAULT(-)	88	J25 - *D	XA05 - 11									
			XA05 - 12	212								NC
			XA05 - 13	213								NC
5MHZ REF OSC(+)	52	J24 - S	XA05 - 14									
5MHZ REF OSC(-)	52	J24 - T	XA05 - 15									
SHLD GND	52B	*XA05- 14	XA05 - 16									
			XA05 - 17	215								NC
			XA05 - 18	216								NC
			XA05 - 19	217								P/O W31 (WIRE #217)

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 22 REV D

COMPONENT XA05

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
			XA05 - 20	218								P/O 31 (WIRE #218)
			XA05 - 21	219								NC
			XA05 - 22	220								P/O 30 (WIRE #220)
			XA05 - 23	221								P/O 30 (WIRE #221)
			XA05 - 24	222								NC
			XA05 - 25	223								P/O W29(WIRE #223)
			XA05 - 26	224								P/O W29 (WIRE #224)
			XA05 - 27	225								NC
TEMP INDIC RTN			XA05 - 28	226	S03 - 02	999	120		STR			24AWG WHITE
			XA05 - 29	227								P/O W32 (WIRE #227)
			XA05 - 30	228								P/O W32 (WIRE #228)
			XA05 - 31	229								NC
RS TEMP FAULT(-)	66	J24 - *J	XA05 - 32									
SHLD GND	231A	*XA05- 34	XA05 - 33									
RCVR 5MHZ REF 4			XA05 - 34	231	XA4P2- A8	999	129		COAX			COAX
SHLD GND			*XA05- 34	231A	XA05 - 33	000	122		STR			24AWG BLACK
			XA05 - 35	232								NC
SHLD GND	234A	*XA05- 37	XA05 - 36									
RCVR 5MHZ REF 3			XA05 - 37	234	XA3P2- A8	999	129		COAX			COAX

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 | SHEET 23 | REV D

COMPONENT XA05

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
SHLD GND			*XA05- 37	234A	XA05 - 36	000	122		STR			24AWG BLACK
			XA05 - 38	235								NC
SHLD GND	237A	*XA05- 40	XA05 - 39									
RCVR 5MHZ REF 2			XA05 - 40	237	XA2P2- A8	999	129		COAX			COAX
SHLD GND			*XA05- 40	237A	XA05 - 39	000	122		STR			24AWG BLACK
			XA05 - 41	238								NC
SHLD GND	240A	*XA05- 43	XA05 - 42									
RCVR 5MHZ REF 1			XA05 - 43	240	XA1P2- A8	999	129		COAX			COAX
SHLD GND			*XA05- 43	240A	XA05 - 42	000	122		STR			24AWG BLACK
			XA05 - 44	241								NC
+15V (AMPL)			XA05 - 45	242	AR1 - +15	999	120		STR			24AWG WHITE
+15V (AMPL)			XA05 - 45	243	AR3 - +15	999	120		STR			24AWG WHITE
+15V (CSC)			XA05 - 46	244	Y01 - 04	999	121		STR			22AWG WHITE
+24V			XA05 - 47	245	TB1 - 6B	999	121		STR			22AWG WHITE

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 24 REV D

COMPONENT P01

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
			P01 - 01	247								NC
			P01 - 02	248								NC
			P01 - 03	249								NC
			P01 - 04	250								NC
LAMP TEST			P01 - 05	251	S02 - 01	999	120		STR			24AWG WHITE
PS STATUS			P01 - 06	252	XA05 - 08	999	120		STR			24AWG WHITE
R.S. PWR SPLY(+)			P01 - 07	253	J24 - Y	999	120		STR			24AWG WHITE
+24V RTN			P01 - 08	254	E1	000	124		STR			22AWG BLACK
+24V			P01 - 09	255	PS2 - 03	999	121		STR			22AWG WHITE
+96V RTN			P01 - 10	256	E1	000	124		STR			22AWG BLACK
+96V			P01 - 11	257	PS4 - 03	999	121		STR			22AWG WHITE
+36V RTN			P01 - 12	258	E1	000	124		STR			22AWG BLACK
+36V			P01 - 13	259	PS3 - 03	999	121		STR			22AWG WHITE
+8.1V			P01 - 14	260	PS5 - 03	999	121		STR			22AWG WHITE
+8.1V RTN			P01 - 15	261	E1	000	124		STR			22AWG BLACK
+20V			P01 - 16	262	PS1 - 03	999	121		STR			22AWG WHITE
+20V RTN			P01 - 17	263	E1	000	124		STR			22AWG BLACK
-20V RTN			P01 - 18	264	E1	000	124		STR			22AWG BLACK
-20V			P01 - 19	265	PS1 - 05	999	121		STR			22AWG WHITE

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 25 REV D

COMPONENT P01

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
			P01 - 20	266								NC
			P01 - 21	267								NC
			P01 - 22	268								NC
			P01 - 23	269								NC
PWP CN INC			P01 - 24	270	S01 - 04	999	120		STR			24AWG WHITE
PS STAT RTN			P01 - 25	271	E1	000	124		STR			22AWG BLACK
R.S. PWR SPLY(-)			P01 - 26	272	J24 - Z	999	120		STR			24AWG WHITE
PWR CN INC			P01 - 27	273	S01 - 01	999	120		STR			24AWG WHITE
+24V			P01 - 28	274	T81 - 6A	999	121		STR			22AWG WHITE
+96V			P01 - 29	275	T81 - 5C	999	121		STR			22AWG WHITE
			P01 - 30	276								NC
+36V			P01 - 31	277	T81 - 4C	999	121		STR			22AWG WHITE
+8.1V			P01 - 32	278	P55 - 03	999	121		STR			22AWG WHITE
+8.1V			P01 - 33	279	T81 - 1C	999	121		STR			22AWG WHITE
+8.1V			P01 - 34	280	T81 - 1D	999	121		STR			22AWG WHITE
+20V			P01 - 35	281	T81 - 2C	999	121		STR			22AWG WHITE
			P01 - 36	282								NC
-20V			P01 - 37	283	T81 - 3C	999	121		STR			22AWG WHITE

KEY: TST - TWISTED SHIELDED TRIPLE; TT - TWISTED TRIPLE; COAX - COAXIAL; SOL - SOLID
TSP - TWISTED SHIELDED PAIR; TP - TWISTED PAIR; SHLD - SHIELDED; STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 | SHEET 26 | REV D

COMPONENT AR

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
+15V (AMPL)	242	XA05 - 45	AR1 - +15	318	AR2 - +15	999	120		STR			24AWG WHITE
GROUND			AR1 - GND	319	E2	000	122		STR			24AWG BLACK
+15V (AMPL)	318	AR1 - +15	AR2 - +15									
GROUND			AR2 - GND	321	E2	000	122		STR			24AWG BLACK
+15V (AMPL)	243	XA05 - 45	AR3 - +15	323	AR4 - +15	999	120		STR			24AWG WHITE
GROUND			AR3 - GND	324	E3	000	122		STR			24AWG BLACK
+15V (AMPL)	323	AR3 - +15	AR4 - +15									
GROUND			AR4 - GND	326	E3	000	122		STR			24AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 27 REV D

COMPONENT A07

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT FILT			A07 -F1-1	328	S01 - ANO	999	125		TSP			24AWG WHITE
115VAC NEUT FILT			A07 -F2-1	328	S01 - CNO	000						24AWG BLACK
SHLD GND			*A07 -F1-1	328A	A07 - E2	000	122		STR			24AWG BLACK
GROUND			A07 - E1	329	E5	000	124		STR			22AWG BLACK
SHLD GND	329A	*A07 -F1-1	A07 - E2									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 | SHEET 28 | REV D

COMPONENT A08

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
GROUND			A08 - 01	354	E3	000	122		STR			24AWG BLACK
REF FAULT IND	208	XA05 - 06	A08 - 02									
OVERTEMP IND	209	XA05 - 05	A08 - 03									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 29 REV D

COMPONENT B1+C1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT CB			B01 - 01	332	CB2 - 02	994			STR	10		WHT/YEL
115VAC NEUT SW	333	B01 - 02	C01 - 01	332	TB1 - 7D	999	120		STR	10		24AWG WHITE
115VAC NEUT SW			B01 - 02	333	C01 - 01	992			STR	11		WHT/RED
CAPACITOR			B01 - 03	334	C01 - 02	995			STR	11		WHT/GRN
CAPACITOR	334	B01 - 03	C01 - 02									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57956 SHEET 30 REV 0

COMPONENT C81

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT Sw	370	S01 - 4C	C81 - 01	338	C82 - 01	999	121		STR			22AWG WHITE
115VAC HOT CB			C81 - 02	339	PS1 - 01	999	125		TSP			24AWG WHITE
115VAC NEUT Sw			TB1 - 7F	339	PS1 - 02	000						24AWG BLACK
SHLD GND			*C81 - 02	339A	E4	000	122		STR			24AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 31 REV D

COMPONENT CB2

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT SW	338	CB1 - 01	CB2 - 01	341	CB3 - 01	999	121		STR			22AWG WHITE
115VAC HOT CB	332	B01 - 01	CB2 - 02	342	PS2 - 01	999	125		TSP			24AWG WHITE
115VAC NEUT SW			TB1 - 7G	342	PS2 - 02	000						24AWG BLACK
SHLD GND			*CB2 - 02	342A	E4	000	122		STR			24AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 32 REV D

COMPONENT CB3

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT SW	341	CB2 - 01	CB3 - 01	344	CB4 - 01	999	121		STR			22AWG WHITE
115VAC HOT CB			CB3 - 02	345	PS3 - 01	999	125		TSP			24AWG WHITE
115VAC NEUT SW			TB1 - 7H	345	PS3 - 02	000						24AWG BLACK
SHLD GND			*CB3 - 02	345A	E4	000	122		STR			24AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 33 REV D

COMPONENT C84

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT SW	344	CB3 - 01	CB4 - 01	347	CB5 - 01	999	121		STR			22AWG WHITE
115VAC HOT CB			CB4 - 02	348	PS4 - 01	999	125		TSP			24AWG WHITE
115VAC NEUT SW			T81 - 7J	348	PS4 - 02	000						24AWG BLACK
SHLD GND			*CB4 - 02	348A	E4	000	122		STR			24AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 34 REV D

COMPONENT C85

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT SW	347	CB4 - 01	CB5 - 01									
115VAC HOT CB			CB5 - 02	350	PS5 - 01	999	125		TSP			24AWG WHITE
115VAC NEUT SW			TB1 - 7K	350	PS5 - 02	000						24AWG BLACK
SHLD GND			*CB5 - 02	350A	E4	000	122		STR			24AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 35 REV D

COMPONENT M01

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT SW	372	S01 - BC	M01 - 01									
115VAC NEUT SW	372	S01 - DC	M01 - 02									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 36 REV D

COMPONENT PS1

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT CB	339	CB1 - 02	PS1 - 01									
115VAC NEUT SW	339	T81 - 7F	PS1 - 02									
+20V	262	P01 - 16	PS1 - 03									
GROUND			PS1 - 04	357	E5	000	124		STR			22AWG BLACK
-20V	265	P01 - 19	PS1 - 05									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 37 REV D

COMPONENT PS2

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT CB	342	CB2 - 02	PS2 - 01									
115VAC NEUT Sw	342	TB1 - 7G	PS2 - 02									
+24V	255	P01 - 09	PS2 - 03									
GRCUND			PS2 - 04	359	E1	080	124		STR			22AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57950 SHEET 38 REV D

COMPONENT PS3

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT CB	345	CB3 - 02	PS3 - 01									
115VAC NEUT SW	345	TB1 - 7H	PS3 - 02									
+36V	259	P01 - 13	PS3 - 03									
GROUND			PS3 - 04	361	E1	000	124		STR			22AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 39 REV D

COMPONENT PS4

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT CB	348	CB4 - 02	PS4 - 01									
115VAC NEUT SW	348	TB1 - 7J	PS4 - 02									
+96V	257	P01 - 11	PS4 - 03									
GROUND			PS4 - 04	363	E5	000	124		STR			22AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 40 REV 0

COMPONENT PS5

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
115VAC HOT CB	350	CB5 - 02	PS5 - 01									
115VAC NEUT SW	350	TB1 - 7K	PS5 - 02									
+8.1V	260	P01 - 14	PS5 - 03									
+8.1V	270	P01 - 32	PS5 - 03									
GROUND			PS5 - 04	365	E1	000	124		STR			22AWG BLACK

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 41 REV D

COMPONENT S01

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			S01 - ANC	367								NC
115VAC HOT FILT	328	A07 -F1-1	S01 - ANC	368	S01 - BNC		184		SOL	12	2	24AWG SOLID
115VAC HOT SW			S01 - AC	369	S01 - BC		184		SOL	12	2	24AWG SOLID
115VAC HOT SW			S01 - AC	370	CB1 - 01	999	125		TSP			24AWG WHITE
115VAC NEUT SW			S01 - CC	370	TB1 - 7A	000						24AWG BLACK
SHLD GND			*S01 - AC	370A	E4	000	122		STR			24AWG BLACK
			S01 - BNC	371								NC
115VAC HOT FILT	368	S01 - ANC	S01 - BNC									
115VAC HOT SW	369	S01 - AC	S01 - BC	372	M01 - 01	999	127		TP			24AWG WHITE
115VAC NEUT SW	375	S01 - CC	S01 - DC	372	M01 - 02	000						24AWG BLACK
			S01 - CNC	373								NC
115VAC NEUT FILT	328	A07 -F2-1	S01 - CNC	374	S01 - DNC		184		SOL	12	2	24AWG SOLID
115VAC NEUT SW			S01 - CC	375	S01 - DC		184		SOL	12	2	24AWG SOLID
			S01 - DNC	376								NC
115VAC NEUT FILT	374	S01 - CNC	S01 - CNC									
GROUND			S01 - C	377	S01 - D		185		SOL	12	2	22AWG SOLID
GROUND	377	S01 - C	S01 - C	378	E1	000	124		STR			22AWG BLACK
PWR CN IND	273	P01 - 27	S01 - 01	379	S01 - 03		184		SOL	12	2	24AWG SOLID
PWR CN IND			S01 - 02	380	S01 - 04		184		SOL	12	2	24AWG SOLID

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 | SHEET 42 | REV D

COMPONENT S01

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
PWR CN IND	379	S01 - 01	S01 - 03									
PWR CN INC	270	P01 - 24	S01 - 04									
PWR CN INC	380	S01 - 02	S01 - 04									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 43 REV 0

COMPONENT S02

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
LAMP TEST	210	XA05 - 07	S02 - 01									
LAMP TEST	251	P01 - 05	S02 - 01									
+24V			S02 - 02	382	TB1 - 6G	999	120		STR			24AWG WHITE
			S02 - 03	383								NC

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 44 REV D

COMPONENT S03

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
TEMP INDIC	205	XA05 - 01	S03 - 01									
TEMP INDIC RTN	226	XA05 - 28	S03 - 02									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 45 REV D

COMPONENT T81

SIGNAL NAME	CALL BACKS WIRE NO.	CALL BACKS LOCATION	FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
			T81 - 1A	386								NC
			T81 - 1B	387								NC
+8.1V	279	P01 - 33	T81 - 1C									
+8.1V	280	P01 - 34	T81 - 1D									
+8.1V	162	XA3P1- 19	T81 - 1E									
			T81 - 1F	388								NC
			T81 - 1G	389								NC
+8.1V	110	XA1P1- 19	T81 - 1H									
+8.1V	135	XA2P1- 19	T81 - 1J									
+8.1V	152	XA4P1- 19	T81 - 1K									
			T81 - 2A	390								NC
			T81 - 2B	391								NC
+20V	281	P01 - 35	T81 - 2C									
			T81 - 2D	392								NC
+20V	160	XA3P1- 17	T81 - 2E									
			T81 - 2F	393								NC
			T81 - 2G	394								NC
+20V	108	XA1P1- 17	T81 - 2H									
+20V	133	XA2P1- 17	T81 - 2J									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 46 REV D

COMPONENT T81

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
+20V	190	XA4P1- 17	T81 - 2K									
			T81 - 3A	395								NC
			T81 - 3B	396								NC
-20V	283	P01 - 37	T81 - 3C									
			T81 - 3D	397								NC
-20V	161	XA3P1- 18	T81 - 3E									
			T81 - 3F	398								NC
			T81 - 3G	399								NC
-20V	109	XA1P1- 18	T81 - 3H									
-20V	134	XA2P1- 18	T81 - 3J									
-20V	191	XA4P1- 18	T81 - 3K									
			T81 - 4A	400								NC
			T81 - 4B	401								NC
+36V	277	P01 - 31	T81 - 4C									
			T81 - 4D	402								NC
+36V	153	XA3P1- 09	T81 - 4E									
			T81 - 4F	403								NC
			T81 - 4G	404								NC
+36V	101	XA1P1- 09	T81 - 4H									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 47 REV D

COMPONENT T81

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
+36V	127	XA2P1- 09	T81 - 4J									
+36V	183	XA4P1- 09	T81 - 4K									
			T81 - 5A	405								NC
			T81 - 5B	406								NC
+96V	275	P01 - 29	T81 - 5C									
			T81 - 5D	407								NC
+96V	156	XA3P1- 12	T81 - 5E									
			T81 - 5F	408								NC
			T81 - 5G	409								NC
+96V	104	XA1P1- 12	T81 - 5H									
+96V	130	XA2P1- 12	T81 - 5J									
+96V	186	XA4P1- 12	T81 - 5K									
+24V	274	P01 - 28	T81 - 6A									
+24V	245	XA05 - 47	T81 - 6B									
			T81 - 6C	410								NC
			T81 - 6D	411								NC
			T81 - 6E	412								NC
+24V			T81 - 6F	413	Y01 - 06	999	121		STR			22AWG WHITE
+24V	382	S02 - 02	T81 - 6G									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 48 REV D

COMPONENT T81

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			T81 - 6H	414								NC
			T81 - 6J	415								NC
			T81 - 6K	416								NC
115VAC NEUT SW	370	S01 - C0	T81 - 7A									
115VAC NEUT SW			T81 - 7B	417	T81 - 7C	999	120		STR			24AWG WHITE
115VAC NEUT SW	417	T81 - 7B	T81 - 7C									
115VAC NEUT SW	332	C01 - 01	T81 - 7D									
			T81 - 7E	418								NC
115VAC NEUT SW			T81 - 7F									(P/O WIRE #339)
115VAC NEUT SW			T81 - 7G									(P/O WIRE #342)
115VAC NEUT SW			T81 - 7H									(P/O WIRE #345)
115VAC NEUT SW			T81 - 7J									(P/O WIRE #348)
115VAC NEUT SW			T81 - 7K									(P/O WIRE #350)

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 | SHEET 49 | REV D

COMPONENT Y01

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
			Y01 - 01	420								NC
			Y01 - 02	421								NC
GROUND			Y01 - 03	422	E3	000	124		STR			22AWG BLACK
+15V (CSC)	244	XA05 - 46	Y01 - 04									
GROUND			Y01 - 05	423	E3	000	124		STR			22AWG BLACK
+24V	413	TB1 - 6F	Y01 - 06									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57956 SHEET 50 REV D

COMPONENT E

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
+24V RTN	254	P01 - 08	E1									
+96V RTN	256	P01 - 10	E1									
+36V RTN	258	P01 - 12	E1									
+8.1V RTN	261	P01 - 15	E1									
+20V RTN	263	P01 - 17	E1									
-20V RTN	264	P01 - 18	E1									
PS STAT RTN	271	P01 - 25	E1									
GROUND	359	PS2 - 04	E1									
GROUND	361	PS3 - 04	E1									
GROUND	365	PS5 - 04	E1									
GROUND	378	S01 - D	E1									
ADRS 2(2)	97	XA1P1- 05	E2									
ADRS 2(1)	98	XA1P1- 06	E2									
ADRS 2(0)	99	XA1P1- 07	E2									
GROUND	103	XA1P1- 11	E2									
GROUND	105	XA1P1- 13	E2									
ADRS 2(2)	123	XA2P1- 05	E2									
ADRS 2(0)	125	XA2P1- 07	E2									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 | SHEET 51 | REV D

COMPONENT E

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
GROUND	129	XA2P1- 11	E2									
GROUND	131	XA2P1- 13	E2									
PS STATUS	211	XA05 - 09	E2									
GROUND	319	AR1 - GND	E2									
GROUND	321	AR2 - GND	E2									
ADRS 2(1)	150	XA3P1- 06	E3									
ADRS 2(0)	151	XA3P1- 07	E3									
GROUND	155	XA3P1- 11	E3									
GROUND	157	XA3P1- 13	E3									
ADRS 2(0)	181	XA4P1- 07	E3									
GROUND	185	XA4P1- 11	E3									
GROUND	187	XA4P1- 13	E3									
GROUND	324	AR3 - GND	E3									
GROUND	326	AR4 - GND	E3									
GROUND	354	A08 - 01	E3									
GROUND	422	Y01 - 03	E3									
GROUND	423	Y01 - 05	E3									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 52 REV D

COMPONENT E

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
SHLD GND	339A	*CB1 - 02	E4									
SHLD GND	342A	*CB2 - 02	E4									
SHLD GND	345A	*CB3 - 02	E4									
SHLD GND	348A	*CB4 - 02	E4									
SHLD GND	350A	*CB5 - 02	E4									
SHLD GND	370A	*S01 - AC	E4									
GND	2	J23 - A	E5									
GND	3	J23 - B	E5									
GND	14	J23 - N	E5									
AGC RTN 1	28	J23 - *H	E5									
AGC RTN 2	30	J23 - *J	E5									
AGC RTN 3	32	J23 - *M	E5									
AGC RTN 4	34	J23 - *P	E5									
GND	40	J24 - A	E5									
GND	41	J24 - B	E5									
GND	48	J24 - J	E5									
SHLD GND	52A	*J24 - S	E5									
ADRS RTN	57	J24 - *A	E5									

KEY: TST - TWISTED SHIELDED TRIPLE TT - TWISTED TRIPLE COAX - COAXIAL SOL - SOLID
TSP - TWISTED SHIELDED PAIR TP - TWISTED PAIR SHLD - SHIELDED STR - STRANDED
WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 SHEET 53 REV D

COMPONENT E

SIGNAL NAME	CALL BACKS		FROM	WIRE NO.	TO	COLOR	ITEM NO.	LEVEL	KEY	NOTE	GROUP	REMARKS
	WIRE NO.	LOCATION										
GND	63	J24 - *G	E5									
GND	68	J25 - A	E5									
GND	69	J25 - B	E5									
GND	78	J25 - L	E5									
AGC RTN RCVR 1	90	J25 - *F	E5									
AGC RTN RCVR 2	92	J25 - *H	E5									
GRCUND	94	J25 - *J	E5									
GRCUND	329	A07 - E1	E5									
GRCUND	357	PS1 - 04	E5									
GRCUND	363	PS4 - 04	E5									

KEY: TST - TWISTED SHIELDED TRIPLE; TSP - TWISTED SHIELDED PAIR; TT - TWISTED TRIPLE; TP - TWISTED PAIR; COAX - COAXIAL; SHLD - SHIELDED; SOL - SOLID; STR - STRANDED; WW - WIRE WRAP

CONTRACT NO.:

WIRE LIST 5051642

CODE IDENT 57958 | SHEET 54 | REV D

ITEM#	KEY	QTY	WIRE NUMBERS
120	STR	47	16 19 22 25 27 29 31 33 35 36 37 38 53 54 55 64 66 85 86 87 88 89 91 120 121 122 146 147 148 176 177 178 205 226 242 243 251 252 253 270 272 273 318 323 332 382 417
121	STR	44	101 104 108 109 110 127 130 133 134 135 153 156 160 161 162 183 186 190 191 192 208 209 210 244 245 255 257 259 260 262 265 274 275 277 278 279 280 281 283 338 341 344 347 413
122	STR	50	15A 15B 18A 18B 21A 21B 24A 24B 28 30 32 34 52A 52B 90 92 94 97 98 99 103 105 123 125 129 131 150 151 155 157 181 185 187 211 231A 234A 237A 240A 319 321 324 326 328A 339A 342A 345A 348A 350A 354 370A
124	STR	27	2 3 14 40 41 48 57 63 68 69 78 254 256 258 261 263 264 271 329 357 359 361 363 365 378 422 423
125	TSP	12	15 18 21 24 52 328 339 342 345 348 350 370
127	TP	16	49 50 51 79 80 81 82 83 84 170 171 172 200 201 202 372
128	SHLD	4	59 60 61 62
129	COAX	4	231 234 237 240

TJ 5051642 REV-D RCVR

WIRE HARNESS SUMMARY
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ITEM#	KEY	QTY	WIRE NUMBERS
184	SOL	7	368 369 374 375 377 379 380
185	SCL	1	377

APPENDIX A

REFERENCES

Reference	Title
FM 21-11	First Aid for Soldiers
MIL-STD-454	Standard General Requirements for Electronic Equipment
MIL-STD-681	Identification Coding and Application of Hookup and Lead Wire
NAVTORPSTA REPORT 1347	Guide Manual for Repair of Electronic Modules
PDEP 11-6625-2773-12-3	Operator's and Organizational Maintenance Manual (with parts list) for Test Station, Electronic Equipment AN/USM-410(XE-3A) (V)
TM 32-5865-060-10	Operator's Manual for Countermeasures Set, Special Purpose, AN/MLQ-34
TM 32-5865-060-24&P	Organizational, Direct Support and General Support Maintenance Manual including Repair Parts and Special Tools List for Countermeasures Set, Special Purpose, AN/MLQ-34
PAM 738-750	Army Maintenance Management System
TM 43-0118	Field Instructions for Painting and Preserving Electronics Command Equipment including Camouflage Pattern Painting of Electronic Equipment Shelters
TM 740-90-1	Administration Storage
TM 750-244-2	Procedures for Destruction of Army Materiel to Prevent Enemy Use (Electronics Command)

APPENDIX B

MAINTENANCE ALLOCATION CHART

RECEIVER SET R-2197/MLQ-34 (5051640-1)

Section I. INTRODUCTION

B-1. GENERAL

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

b. The Maintenance Allocation Chart (MAC) in section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilities of the designated maintenance categories.

c. Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from section II.

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

B-2. MAINTENANCE FUNCTIONS. Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel).

b. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases.

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

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

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

g. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install, may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

h. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. Replace is authorized by the MAC and is shown as the third position code of the SM&R code.

i. Repair. The application of maintenance services[1], including fault location/troubleshooting [2], removal/installation, and disassembly/assembly[3], procedures, and maintenance actions[4], to identify troubles and restore service-ability to an item by correcting specific damage, fault, malfunction or failure in a part, subassembly, module (component or assembly), end item, or system.

j. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

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

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[1]Services - inspect, test, service, adjust, align, calibrate, and/or replace.

[2]Fault locate/troubleshoot - The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or unit under test (UUT).

[3]Disassemble/assemble - encompasses the step-by-step taking apart (or breakdown) of a spare/functional group coded item to the level of its least componency iden tified as maintenance significant (i.e., assigned an SMR code) for the category of maintenance under consideration.

[4]Actions - welding, grinding, riveting, straightening, facing, remachinery, and/or resurfacing.

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

a. Column 1, Group Number. Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly. End item group number shall be "00".

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

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

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

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

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

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

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

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

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

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

d. Column 4. National Stock Number. The National stock number of the tool or TMDE.

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

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

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

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

SECTION II. MAINTENANCE ALLOCATION CHART

Receiver Set
R-2197/MLQ-34
(5051640-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY C	O	F	H	D	TOO AND EQUIP.	EMARK
00	:eceiver Set	Inspect				0.1		1	
	5051640-1	Test				1.5		1, 3-23, 32,36, 37	
		Repair				1.0		1, 3-23, 27-37	
		Overhaul					K		A
01	:CA, RF Buffer/	Inspect				0.1		1	
	mplifier	Test				0.8		1-4, 24,36	
	5								
	5051909-1	Remove/ Install						1,2, 28,32	
		Repair				0.6		1-4, 24,27, 36	
02	:CA, Power	Inspect				0.2		1	
	lonitor-Receiver	Test				0.5		1-4, 25,36	
	:et								
	6	Remove/						1,2,	
	5051841-1	Install						28,32	
		Repair				0.4		1-4, 25,36	

SECTION II. MAINTENANCE ALLOCATION CHART

Receiver Set
R-2197/MLQ-34
(5051640-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARK
			C	O	F	H	D		
03	Reference	Inspect				0.1		1	
	Oscillator,	Replace				0.2		1-3,	
	5 MHz							26,35	
	Y1								
	5054967-1	Repair					X		B
04	Filter Assy.	Inspect				0.2		1	
	EMI	Test				0.3		1-3	
	A7	Replace				0.4		1-3	
	5051780-2	Repair				0.5		1-3	
05	Light Indicator	Inspect				0.1		1	
	Assy	Replace				0.2		1-3	
	A8	Repair				0.3		1-3	
	5052299-2								
06	Power Supply	Inspect				0.1		1	
	PS1	Replace				0.4		1-3,	
	5-54935-12							33	
		Repair					X		B
07	Power Supply	Inspect				0.1		1	
	PS 2	Replace				0.4		1-3,	
								33	
	5054935-4	Repair					X		B
08	Power Supply	Inspect				0.1		1	
	PS3	Replace				0.4		1-3,	
	5054935-7							33	
		Repair					X		B

SECTION II. MAINTENANCE ALLOCATION CHART

Receiver Set
R-2197/MLQ-34
(5051640-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARKS
			C	O	F	H	D		
09	Power Supply	Inspect				0.1		1	
	PS4	Replace				0.4		1-3,	
	5054935-8							33	
		Repair					X		B
10	Power Supply	Inspect				0.1		1	
	PS 5	Replace				0.4		1-3	
	5054935-3							27,33	
		Repair					X		B
11	Cable Assy., RF	Inspect				0.1		1	
	W33	Test				0.2		1,3	
	5052292-1	Replace				0.1		1,35	
12	Cable Assy., RF	Inspect				0.1		1	
	W25	Test				0.2		1,3	
	5052293-1	Replace				0.1		1,35	
13	Cable Assy., RF	Inspect				0.1		1	
	W26	Test				0.2		1,3	
	5052293-2	Replace				0.1		1,35	
14	Cable Assy., RF	Inspect				0.1		1	
	W27	Test				0.2		1,3	
	5052293-3	Replace				0.1		1,35	
15	Cable Assy., RF	Inspect				0.1		1	
	W28	Test				0.2		1,3	
	5052293-4	Replace				0.1		1,35	

SECTION II. MAINTENANCE ALLOCATION CHART

Receiver Set
R-2197/MLQ-34
(5051640-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP	REMARKS
			C	O	F	H	D		
16	Cable Assy., RF W29 5052294-1	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,27, 31,34	
17	Cable Assy., RF W30 5052294-2	Inpect Test Replace				0.1 0.2 0.1		1 1,3 1,27, 31,34	
18	Cable Assy., RF W31 5052294-3	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,27, 31,34	
19	Cable Assy., RF W32 5052294-4	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,27, 31,34	
20	Cable Assy., RF W17 5052295-1	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,31, 35	
21	Cable Assy., RF W18 5052295-2	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,31, 35	

SECTION II. MAINTENANCE ALLOCATION CHART

Receiver Set
R-2197/MLQ-34
(5051640-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARKS
			C	O	F	H	D		
22	Cable Assy., RF W19 5052295-3	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,31, 35	
23	Cable Assy., RF W20 5052295-4	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,31, 35	
24	Cable Assy., RF W1 5053016-1	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,31	
25	Cable Assy., RF W2 5053016-2	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,31	
26	Cable Assy., RF W3 5053016-3	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,31	
27	Cable Assy., RF W4 5053016-4	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,31	
28	Cable Assy., RF W5 5053016-5	Inspect Test Replace				0.1 0.2 0.1		1 1,3 1,31	

SECTION II. MAINTENANCE ALLOCATION CHART

Receiver Set
R-2197/MLQ-34
(5051640-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARKS
			C	O	F	H	D		
29	Cable Assy., RF	Inspect				0.1		1	
	W6	Test				0.2		1,3	
	5053016-6	Replace				0.1		1,31	
30	Cable Assy., RF	Inspect				0.1		1	
	W7	Test				0.2		1,3	
	5053016-7	Replace				0.1		1,31	
31	Cable Assy., RF	Inspect				0.1		1	
	W8	Test				0.2		1,3	
	5053016-8	Replace				0.1		1,31	
32	Cable Assy., RF	Inspect				0.1		1	
	W9	Test				0.2		1,3	
	5053016-9	Replace				0.1		1,31	
33	Cable Assy., RF	Inspect				0.1		1	
	W10	Test				0.2		1,3	
	5053016-10	Replace				0.1		1,31	
34	Cable Assy., RF	Inspect				0.1		1	
	W11	Test				0.2		1,3	
	5053016-11	Replace				0.1		1,31	
35	Cable Assy., RF	Inspect				0.1		1	
	W12	Test				0.2		1,3	
	5053016-12	Replace				0.1		1,31	

SECTION II. MAINTENANCE ALLOCATION CHART

Receiver Set
R-2197/MLQ-34
(5051640-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE LEVEL					TOOLS AND EQUIP	REMARKS
			C	O	F	H	D		
36	Cable Assy., RF	Inspect				0.1		1	
	W34	Test				0.2		1,3	
	5053019-1	Replace				0.1		1	
37	Wiring Harness, Br	Inspect				0.2		1	
	W35	Replace				3.0		1,3,	
	5051664-1							29,30	
		Repair				1.5		1,3,29,30,33,34	
38	Filter Assy, RCVR	Inspect				0.1		1	
	A10	Test				0.3		1-3	
	C5075831-1	Replace				0.2		1-3	
		Repair				0.5		1-3	
3801	CCA Filter	Inspect				0.1		1	
	A10A1	Test				0.3		1-3	
	C5075839-1	Replace				0.5		1-3	
		Repair				0.6		1-3	
3802	CCA Filter BUS 2	Inspect				0.1		1	
	A10A2	Test				0.3		1-3	
	C5075843-1	Replace				0.5		1-3	
		Repair				0.6		1-3	
39	Filter Assy. AGC/	Inspect				0.1		1	
	Audio	Test				0.3		1-3	
	A11	Replace				0.2		1-3	
	C5146983	Repair				0.5		1-3	
3901	CCA AGC/Audio	Inspect				0.1		1	
	Filter	Test				0.3		1-3	
	A11A1	Replace				0.5		1-3	
	C5146991	Repair				0.6		1-3	
3902	CCA AGC/Audio	Inspect				0.1		1	
	Filter	Test				0.3		1-3	
	A11A2	Replace				0.5		1-3	
	C5146991	Repair				0.6		1-3	

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS

RECEIVER SET
R-2197/MLQ-34
(5051640-1)

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	HD	TOOL KIT, ELECTRONIC EQUIP.	5180-00-605-0079	TK-100/G
2	HD	TOOL KIT, ELECTRONIC EQUIP.	5180-00-610-8177	TK-105/G
3	HD	MULTIMETER SET	6625-00-969-4105	ME-303A/U
4	HD	TEST STATION	6625-01-069-4223	AN/USM-410 (V2)
5	HD	ATE SOFTWARE TEST PROGRAM SET FOR RECEIVER SET		TPT5051640 GTE FSCM 57958
6	HD	PIU-B INTERFACE DEVICE (ADAPTER, TEST)		5053510 MX-10425/U GTE FSCM 57958
7	HD	PIU-B PLUG IN ADAPTER NO. 4		5053514 GTE FSCM 57958
8	HD	400 HZ SWITCHING INTERFACE DEVICE (ADAPTER, TEST)		5053501-1 MX-10429/U GTE FSCM 57958
9	HD	LRU RF INTERFACE DEVICE NO. 1		5053526 GTE FSCM 57958
10	HD	CABLE W1		5053528-1 GTE FSCM 57958
11	HD	CABLE W10		5053530-1 GTE FSCM 57958

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS

RECEIVER SET
R-2197/MLQ-34
(5051640-1)

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
12	HD	CABLE W16		C5075902-1 GTE FSCM 57958
13	HD	CABLE W18		C5075903-1 GTE FSCM 57958
14	HD	CABLE W19		C5075904-1 GTE FSCM 57958
15	HD	CABLE W20		C5075905-1 GTE FSCM 57958
16	HD	CABLE W21		C5075906-1 GTE FSCM 57958
17	HD	CABLE W26		C5075907-1 GTE FSCM 57958
18	HD	CABLE W27		C5075964-1 GTE FSCM 57958
19	HD	ACCESSORY KIT		C5053561-1 GTE FSCM 57958
20	HD	CABLE W8		5053560-1 GTE FSCM 57958
21	HD	CABLE W7		5053559-1 GTE FSCM 57958

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS

RECEIVER SET
R-2197/MLQ-34
(5051640-1)

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
22	HD	SC IN-SERIES ADAPTER		5053562 GTE FSCM 57958
23	HD	JUMPER PLUGS (4 EACH)		C5075908 GTE FSCM 57958
24	HD	ATE SOFTWARE TEST PROGRAM SET FOR CCA, RF BUFFER/AMP A5		TPT5051909 GTE FSCM 57958
25	HD	ATE SOFTWARE TEST PROGRAM SET FOR CCA POWER MONITOR RECEIVER SET, A6		TPT5051841 GTE FSCM 57958
26	HD	WRENCH TORQUE, BODY 5-50 IN. LBS.	5120-00-902-9436	
27	HD	EXTRACTOR TOOL, FOR XA5 CONNECTOR PIN		M21097/ 18-01 AMP P/N 465199-1
28	HD	CIRCUIT CARD EXTRACTOR		5054268 GTE FSCM 57958
29	HD	CONNECTOR PIN INSERTION/ REMOVAL TOOL, CONTACT SIZE 20	5120-00-915-4587	MS27534-20
30	HD	CONNECTOR PIN INSERTION/ REMOVAL TOOL, CONTACT SIZE 16		MS27534-16
31	HD	TOOL COAXIAL CONTACT EXTRACTION	5120-00-963-7661	CANNON CET-C6B

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS

RECEIVER SET
R-2197/MLQ-34
(5051640-1)

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
32	HD	EXTENDER CARD, CCA		0108-1- 4136-1 GTE FSCM 57958
33	HD	HEAT GUN	4940-00-364-2828	MASTERS HG-501 FSCM83284
34	HD	CRIMPING TOOL SIZE 22 THRU 14 WIRE	5120-00-596-9409	
35	FHD	WRENCH, TORQUE 7-10 IN. LBS. PRESET	5120-00-169-5776	OMNI SPECTRA MODEL T8438 FSCM16179
36	HD	PIU-A INTERFACE DEVICE (ADAPTER, TEST)		5053507 MX-10426/U GTE FSCM 57958
37	HD	R.F. INTERFACE DEVICE NO.1 (ADAPTER, TEST)		5053526 MX-10428/U GTE FSCM 57958

SECTION IV. REMARKS
Receiver Set
R-2197/MLQ-34
(5051640-1)

REFERENCE CODE	REMARKS
A	Refer to DMWR 32-5865-061 for depot level repair.
B	For Depot Level Maintenance Instructions refer to USAEMRA Supply Bulletin. Subject: Electronic Items Depot/Contract Repair Support.

APPENDIX C

ORANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

C-1. **SCOPE**. This manual lists spares and repair parts, special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational, direct support, and general support maintenance of the Receiver R-2197/MLQ-34. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

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

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

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

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

C-3. **EXPLANATION OF COLUMNS.**

a. Illustration. This column is divided as follows:

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

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

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

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

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
PE	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
MH	Item to be manufactured or fabricated at the general support maintenance level.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Item is not procured or stocked. If not available through salvage, requisition.

NOTE

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

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

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

Code	Application/Explanation
O	Support item is removed, replaced, used at the organizational level.
F	Support item is removed, replaced, used at the direct support level.
H	Support item is removed, replaced, used at the general support level.
D	Support items that are removed, replaced, used at depot, mobile depot, or specialized repair activity only.

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

Code	Application/Explanation
0 -	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F -	The lowest maintenance level capable of complete repair of the support item is the direct support level.
H -	The lowest maintenance level capable of complete repair of the support item is the general support level.
D -	The lowest maintenance level capable of complete repair of the support item is the depot level.
Z -	Nonreparable. No repair is authorized.

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

Recoverability Codes		Definition
Z	-	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
0	-	Reparable item. When uneconomically reparable, condemn and dispose at organizational level.
F	-	Reparable item. When uneconomically reparable, condemn and dispose at the direct support level.
H	-	Reparable item. When uneconomically reparable, condemn and dispose at the general support level.
D	-	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.

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

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

NOTE

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

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item. The physical security classification of the item is indicated by the parenthetical entry. Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased accordingly.

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

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

C-4. SPECIAL INFORMATION.

a. A square symbol on the components of a CCA denotes the positive end.

b. Action change codes indicated in the left-hand margin of the listing page denote the following:

N-Indicates an added item.

C-Indicates a change in data.

R-Indicates a change in NSN only.

C-5. HOW TO LOCATE REPAIR PARTS.

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

(1) First. Using the table of contents, determine the functional group or subgroup within which the item belongs. This is necessary since illustrations are prepared for functional groups or subgroups, and listings are divided into the same groups.

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

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

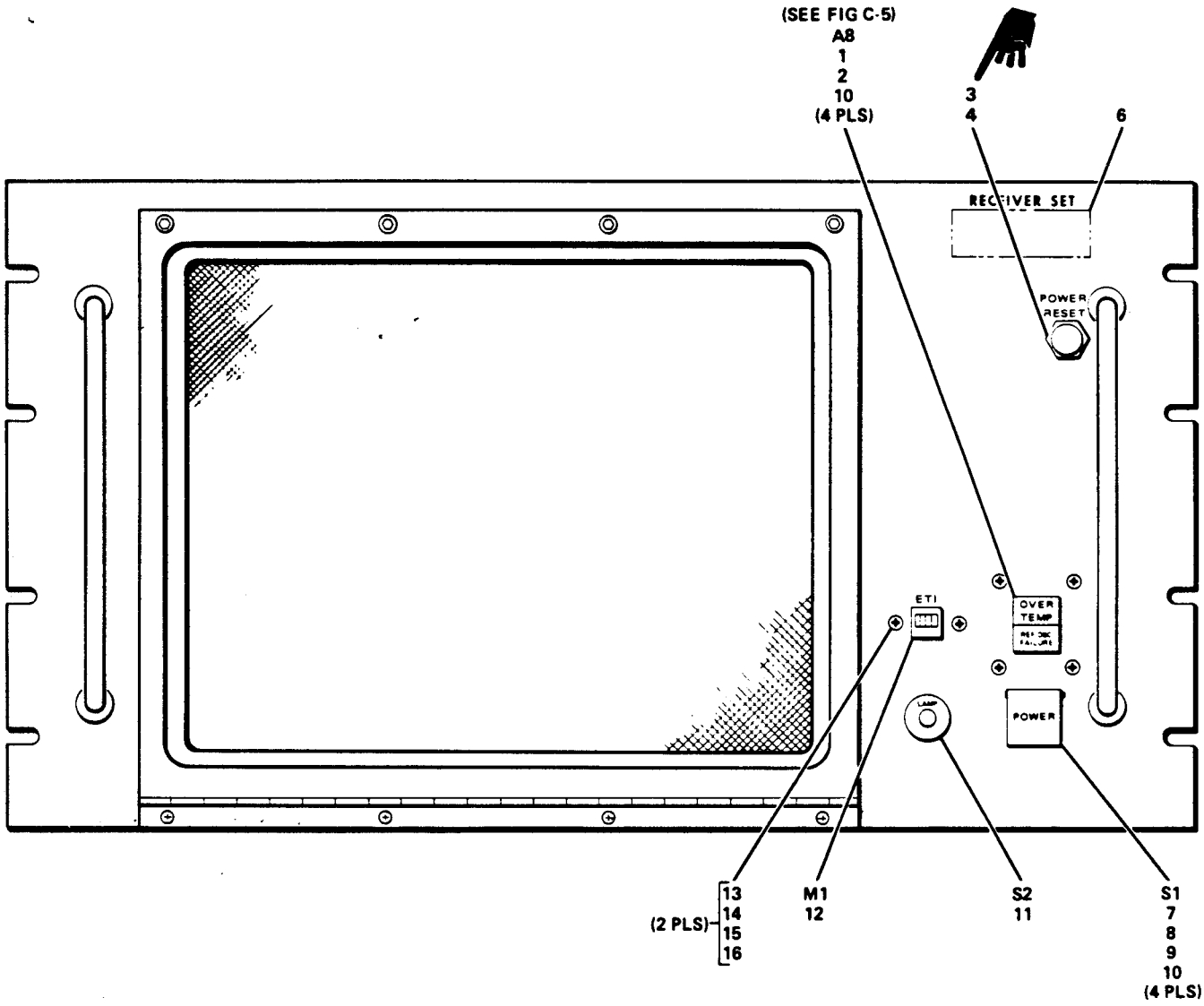
(4) Fourth. Using the Repair Parts Listing, find the figure and item numbers noted on the illustration.

b. When National Stock Number or Part Number is Known:

(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross--referenced to the illustration figure number and item number.

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

C-6. ABBREVIATIONS. Not applicable.



PREFIX ALL REFERENCE DESIGNATIONS WITH A25

Figure C-1. Receiver Set 5051640-1 (Sheet 1 of 9)

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 00 RECEIVER SET (57958) 5051640-1			
	C-1	1	PAHHH		5052299-2	57958	IND LIGHT ASSY		EA	1
C	C-1	2	PAHZZ	5305-00-958-2918	MS24693C26	96906	SCR,MACH,FL HD		EA	9
	C-1	3	PAHZZ	5930-00-220-5705	5054832-1	57958	BOOT,DUMR SEAL		EA	1
	C-1	4	PAHZZ		0213-1-1068-1	57958	ADAPTER,BUSHING		EA	1
C										
	C-1	6	XBHZZ		5051425-8	57958	PLATE,IDENT		EA	1
	C-1	7	PAHZZ	5930-01-132-8670	5054830-6	57958	SWITCH,PUSH		EA	1
	C-1	8	PAHZZ	6210-01-140-5660	5054892-1	57958	LIGHT,INDICATOR		EA	1
	C-1	9	PAHZZ		M22885-83-200	81349	GUARD,SWITCH		EA	1
	C-1	10	PAOZZ	6240-00-143-6558	MS3338-6839	96906	LAMP,INCAND		EA	8
	C-1	11	PAHZZ	5930-01-132-4476	5051824-1	57958	SWITCH,PUSH		EA	1
	C-1	12	PAHZZ	6645-00-255-1371	M7793/6-002	96906	MTR,TIME TOTLZG		EA	1
	C-1	13	PAHZZ	5305-00-066-7325	MS24693C5	96906	SCR,MACH,FL HD		EA	2
	C-1	14	PAHZZ	5310-00-595-6211	MS15795-803	96906	WASHER,FLAT		EA	62
	C-1	15	PAHZZ	5310-00-933-8118	MS35338-135	96906	WASHER,LOCK		EA	50
	C-1	16	PAHZZ	5310-00-934-9748	MS35649-244	96906	NUT,PLAIN,HEX		EA	16

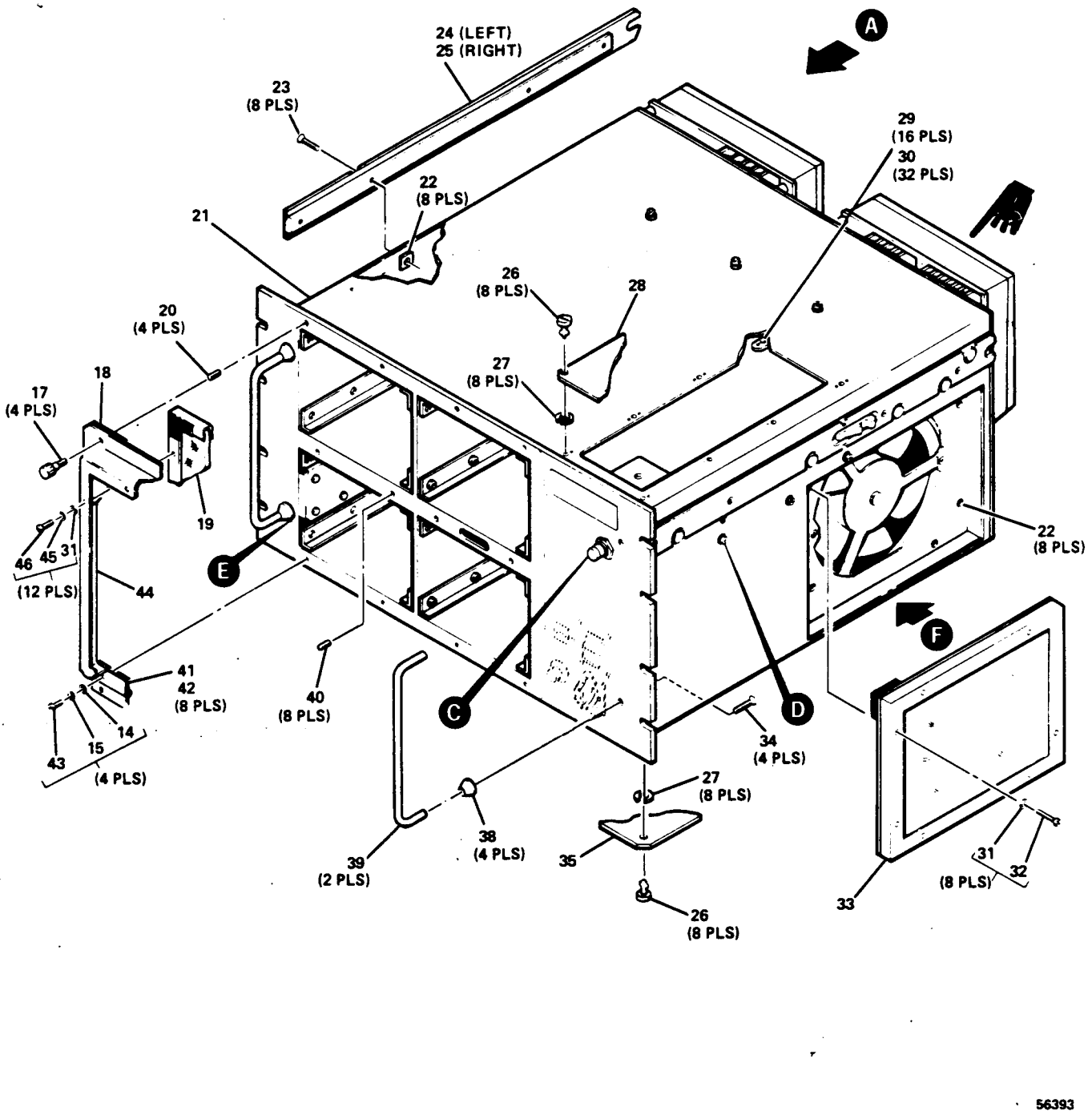


Figure C-1. Receiver Set 5051640-1 (Sheet 2 of 9)

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
	C-1	17	PAHZZ	5305-01-139-0852	5054569-2	57958	SCREW,PNL FSTNR		EA	4
	C-1	18	PAHZZ	9320-01-056-0957	0213-1-1183-2	57958	RUBBER SH,CELL		EA	1
	C-1	19	PAHZZ	4130-01-133-8987	5054763-1	57958	FILTER ELEMENT		EA	1
	C-1	20	PAHZZ	5340-00-843-0003	MS122078	96906	INSERT,SCR THD		EA	4
	C-1	21	XBDDD		5051644-1	57958	CHAS,ELEC EQPT		EA	1
C	C-1	22	PAHZZ	5310-01-274-5216	M45938/11-6CL	81349	NUT,SLFLKG,CL		EA	16
	C-1	23	PAHZZ	5305-00-088-9671	MS24693C52	96906	SCR,MACH,FL HD		EA	2
	C-1	24	XBHZZ		5054833-1	57958	SLIDE SECT,DWR		EA	1
	C-1	25	XBFZZ		5054833-2	57958	SLIDE SECT,DWR		EA	1
	C-1	26	PAHZZ	5325-00-178-8658	5054837-10	57958	STUD,TNLK FSTNR		EA	16
	C-1	27	PAHZZ	5310-00-949-6139	5054837-2	57958	RING,RETAINING		EA	16
	C-1	28	XBHHH		5052284-1	57958	COVER,ACCESS		EA	1
	C-1	29	PAHZZ	5325-00-788-5635	5054837-1	57958	RCPT,TNLK FSTNR		EA	16
C	C-1	30	XBHZZ	5320-00-117-6939	MS20426AD3-5	96906	RIVET,SOLID		EA	32
	C-1	31	PAHZZ	5310-00-880-5978	MS15795-807	96906	WASHER,FLAT		EA	50
	C-1	32	PAHZZ	5305-00-054-6675	MS51957-50	96906	SCR,MACH,PAN HD		EA	8
	C-1	33	PAHZZ	4130-01-132-4478	5054764-1	57958	FILTER ELEMENT		EA	1
	C-1	34	PAHZZ	5305-00-051-0227	MS24693C272	96906	SCR,MACH,FL HD		EA	4
	C-1	35	XBHHH		5052283-1	57958	COVER,ACCESS		EA	1
	C-1	36	PAHZZ	5975-00-111-3208	MS3367-4-9	96906	STRAP,TDN		EA	12
	C-1	37	PAHZZ	4920-00-110-5317	5035870-1	57958	BASE,TDN STRAP		EA	9
	C-1	38	XBHZZ	5340-00-870-5350	0213-1-1074-1	57958	FERRULE,HANDLE		EA	4
	C-1	39	XBHZZ	5340-00-984-8854	MS39087-1	96906	HANDLE,BOW		EA	2
	C-1	40	PAHZZ	5340-00-597-3302	MS124695	96906	INSERT,SCR THD		EA	8
	C-1	41	XBHZZ	5340-01-054-4934	MS35822-9A	96906	HINGE,BUTT		EA	1
	C-1	42	XBHZZ	5320-00-117-6815	MS20470AD3-4	96906	RIVET,SOLID		EA	8
	C-1	43	PAHZZ	5305-00-054-5648	MS51957-14	96906	SCR,MACH,PAN HD		EA	8
	C-1	44	XBHZZ		5051646-1	57958	FRAME,FILTER		EA	1
	C-1	45	PAHZZ	5310-01-067-9589	MS35338-137	96906	WASHER,LOCK		EA	26
	C-1	46	PAHZZ	5305-00-054-6670	MS51957-45	96906	SCR,MACH,PAN HD		EA	12

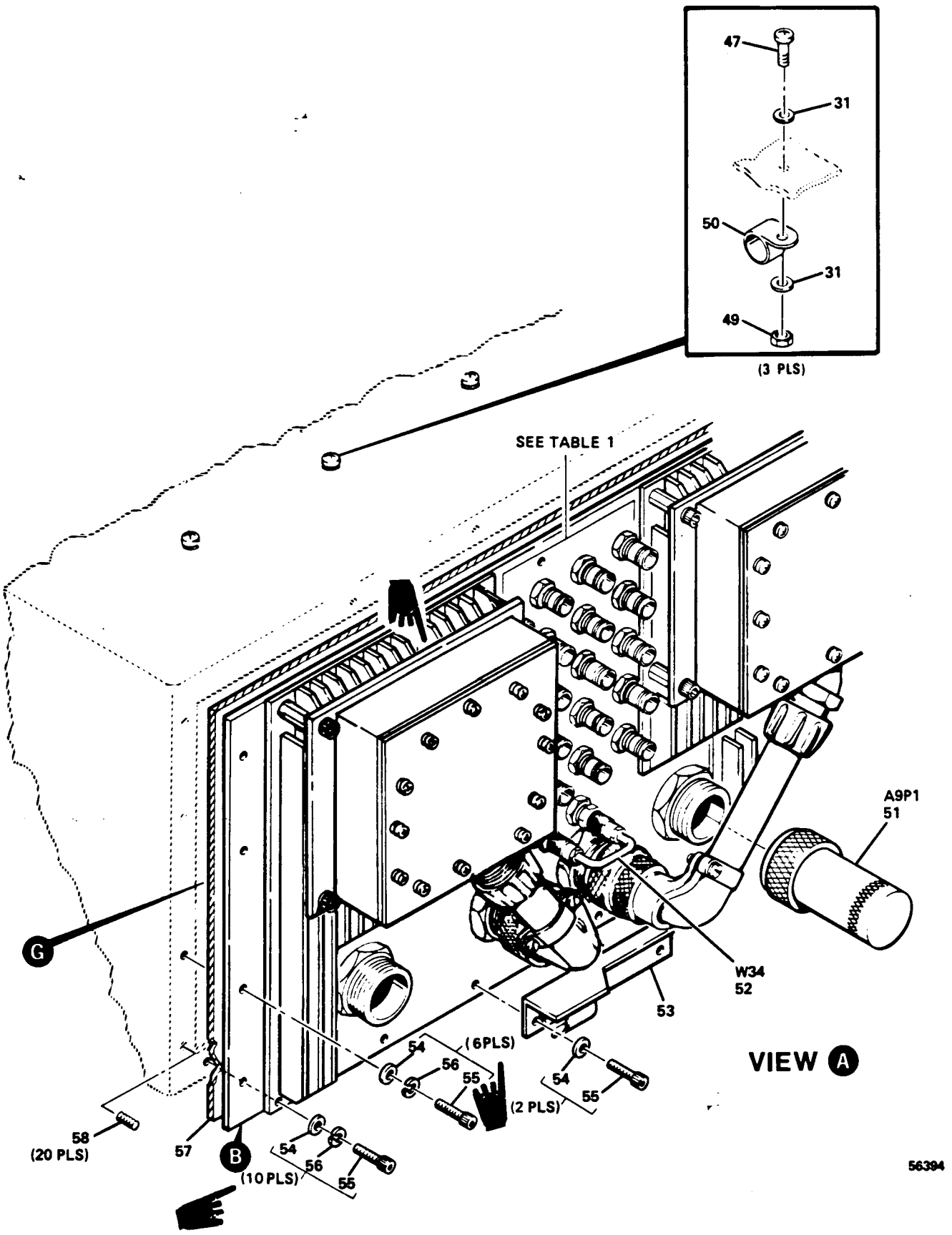


Figure C-1. Receiver Set 5051640-1 (Sheet 3 of 9)

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C	C-1	47	PAHZZ	5305-00-054-6672	MS51957-47	96906	SCR,MACH,PAN HD		EA	9
	C-1	48	PAHZZ	5340-00-989-3032	MS25281R10	96906	CLAMP,LOOP		EA	4
	C-1	49	PAHZZ	5310-00-982-6814	MS21044C08	96906	NUT,SLFLKG,HEX		EA	7
	C-1	50	PAHZZ	5340-00-530-6833	MS25281R9	96906	CLAMP,LOOP		EA	4
	C-1	51	PAHHH		C5077577-1	57958	TERMN,CONNECTOR		EA	1
	C-1	52	XBHHH		5053019-1	57958	CABLE ASSY,RF		EA	1
	C-1	53	XBHZZ		C5075849-1	57958	BRACKET-CLIP		EA	1
	C-1	54	PAHZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT		EA	60
	C-1	55	PAHZZ	5305-00-076-0213	NAS1351C3-10	80205	SCR,CAP,SKT HD		EA	10
	C-1	56	PAHZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK		EA	60
	C-1	57	PAHZZ	5999-01-137-1679	5054581-1	57958	GSKT MATL,CNDCT		EA	1
	C-1	58	PAHZZ	5340-00-986-2929	MS124655	96906	INSERT,SCR THD		EA	20

TABLE 1			
ITEM NO	REF DES	TO	FROM
59	W1	J1	XA1P2A1
60	W2	J2	XA2P2A1
61	W3	J3	XA3P2A1
62	W4	J4	XA4P2A1
63	W5	J5	XA1P2A5
64	W6	J6	XA2P2A5
65	W7	J7	XA3P2A5
66	W8	J8	XA4P2A5
67	W9	J9	XA1P2A4
68	W10	J10	XA2P2A4
69	W11	J11	XA3P2A4
70	W12	J12	XA4P2A4
71	W17	AT1	XA2P2A7
72	W18	AT2	XA2P2A7
73	W19	AT3	XA3P2A7
74	W20	AT4	XA4P2A7
75	W25	J13	AR1 OUTPUT
76	W26	J14	AR2 OUTPUT
77	W27	J15	AR3 OUTPUT
78	W28	J16	AR4 OUTPUT
79	W29	J17	XA5-25 XA5-26
80	W30	J18	XA5-22 XA5-23
81	W31	J19	XA5-19 XA5-20
82	W32	J20	XA5-29 XA5-30
83	W33	J21	AT5

56395

Figure C-1. Receiver Set 5051640-1 (Sheet 4 of 9)

(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-1	59	MHHZZ		5053016-1	57958	CABLE ASSY,RF		EA	1
C-1	60	MHHZZ		5053016-2	57958	CABLE ASSY,RF		EA	1
C-1	61	MHHZZ		5053016-3	57958	CABLE ASSY,RF		EA	1
C-1	62	MHHZZ		5053016-4	57958	CABLE ASSY,RF		EA	1
C-1	63	MHHZZ		5053016-5	57958	CABLE ASSY,RF		EA	1
C-1	64	MHHZZ		5053016-6	57958	CABLE ASSY,RF		EA	1
C-1	65	MHHZZ		5053016-7	57958	CABLE ASSY,RF		EA	1
C-1	66	MHHZZ		5053016-8	57958	CABLE ASSY,RF		EA	1
C-1	67	MHHZZ		5053016-9	57958	CABLE ASSY,RF		EA	1
C-1	68	MHHZZ		5053016-10	57958	CABLE ASSY,RF		EA	1
C-1	69	MHHZZ		5053016-11	57958	CABLE ASSY,RF		EA	1
C-1	70	MHHZZ		5053016-12	57958	CABLE ASSY,RF		EA	1
C-1	71	MHHZZ		5052295-1	57958	CABLE ASSY,RF		EA	1
C-1	72	MHHZZ		5052295-2	57958	CABLE ASSY,RF		EA	1
C-1	73	MHHZZ		5052295-3	57958	CABLE ASSY,RF		EA	1
C-1	74	MHHZZ		5052295-4	57958	CABLE ASSY,RF		EA	1
C-1	75	MHHZZ		5052293-1	57958	CABLE ASSY,RF		EA	1
C-1	76	MHHZZ		5052293-2	57958	CABLE ASSY,RF		EA	1
C-1	77	MHHZZ		5052293-3	57958	CABLE ASSY,RF		EA	1
C-1	78	MHHZZ		5052293-4	57958	CABLE ASSY,RF		EA	1
C-1	79	MHHZZ		5052294-1	57958	CABLE ASSY,RF		EA	1
C-1	80	MHHZZ		5052294-2	57958	CABLE ASSY,RF		EA	1
C-1	81	MHHZZ		5052294-3	57958	CABLE ASSY,RF		EA	1
C-1	82	MHHZZ		5052294-4	57958	CABLE ASSY,RF		EA	1
C-1	83	MHHZZ		5052292-1	57958	CABLE ASSY,RF		EA	1

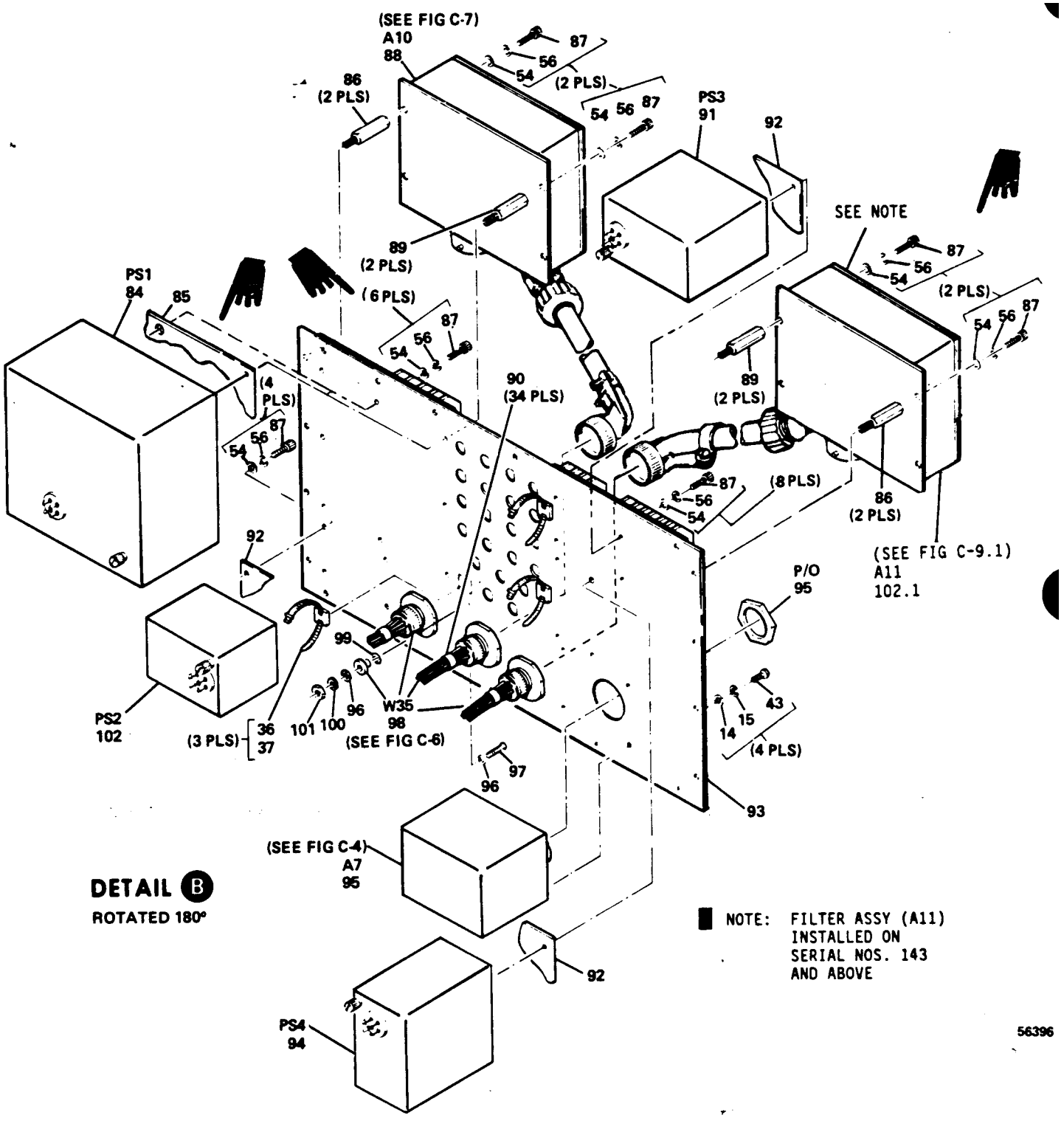


Figure C-1. Receiver Set 5051640-1 (Sheet 5 of 9)

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
	C-1	84	PAHDD		0213-2-1196-24	57958	POWER SUPPLY		EA	1
	C-1	85	PAHZZ	5970-01-133-1578	5054919-4	57958	INSUL,THRM CNDT		EA	1
C	C-1	86	PAHZZ	5307-01-115-5404	5054729-4	57958	SPACER,THD,HEX		EA	4
	C-1	87	PAHZZ	5305-00-995-1886	NAS1351C3-8	80205	SCR,CAP,SKT HD		EA	32
	C-1	88	PAHHD		C5075831-1	57958	FILTER ASSY		EA	1
C	C-1	89	PAHZZ		5054729-3	57958	SPACER,THD,HEX		EA	4
	C-1	90	XBHZZ		5054784-1	57958	BAND,MARKER		EA	34
	C-1	91	PAHDD	6130-01-144-8638	0213-2-1196-22	57958	POWER SUPPLY		EA	1
C	C-1	92	PAHZZ	5970-01-132-5616	5054919-1	57958	INSUL,THRM CNDT		EA	3
	C-1	93	XBHZZ		5051645-1	57958	HEAT SINK,ELEC		EA	1
	C-1	94	PAHDD		0213-2-1196-23	57958	POWER SUPPLY		EA	1
	C-1	95	PAHHH	5915-01-131-0627	5051780-2	57958	FILTER ASSY,EMI		EA	1
	C-1	96	PAHZZ	5310-00-773-7624	NAS620C6	80205	WASHER,FLAT		EA	27
	C-1	97	PAHZZ	5305-00-054-6655	MS51957-31	96906	SCR,MACH,PAN HD		EA	4
	C-1	98	XBHHH		5051664-1	57958	WRG HARNESS,BR		EA	1
	C-1	99	PAHZZ	5310-00-209-1366	MS35335-58	96906	WASHER,LOCK		EA	5
	C-1	100	PAHZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK		EA	34
	C-1	101	PAHZZ	5310-00-616-8660	NAS671C6	80205	NUT,PLAIN,HEX		EA	26
	C-1	102	PAHDD	6130-00-785-1027	0213-2-1196-21	57958	POWER SUPPLY		EA	1
N	C-1	102.1	PAHHD		C5146983	57958	FILTER ASSY,AGC/AUDIO		EA	1

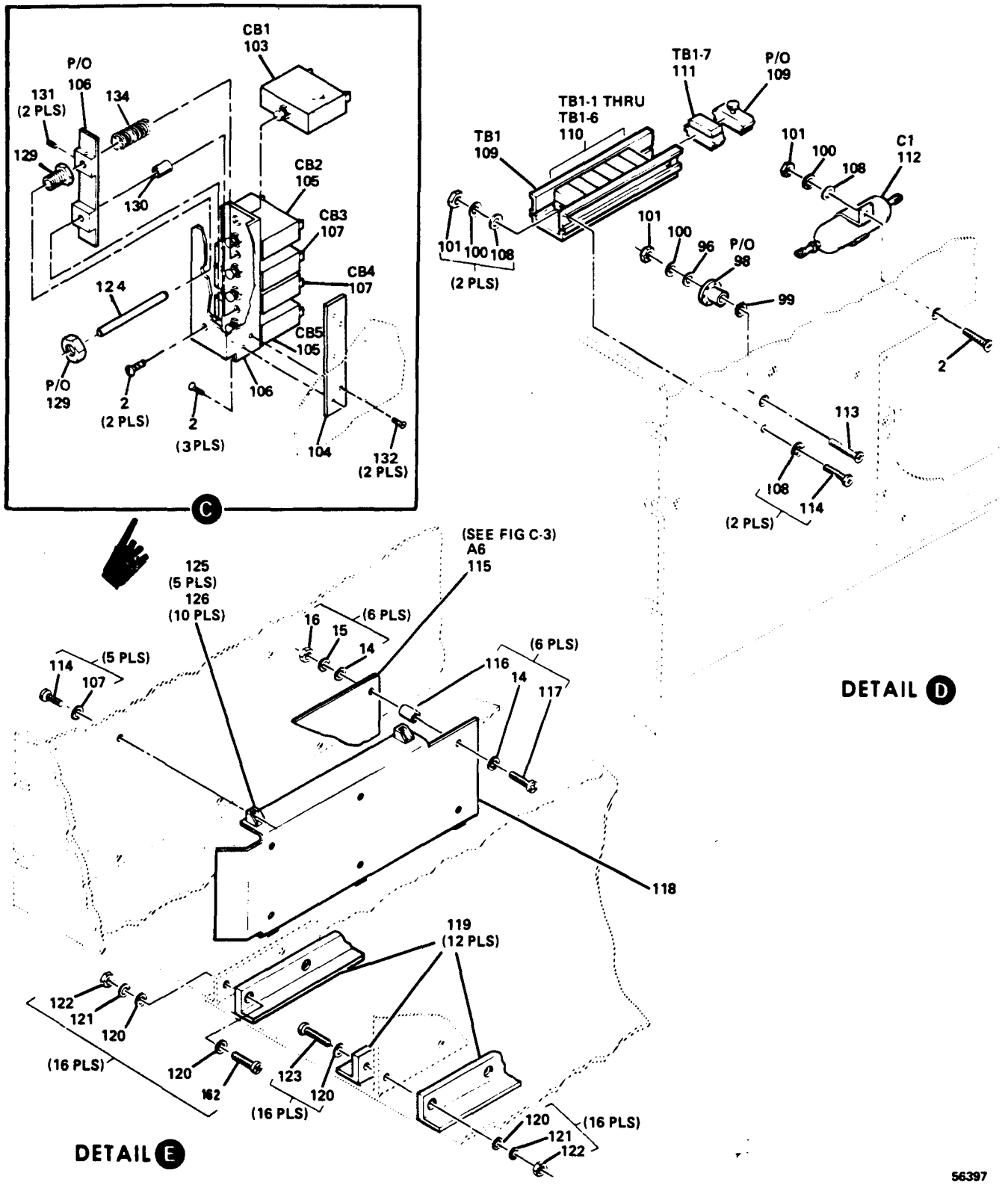


Figure C-1. Receiver Set 5051640-1 (Sheet 6 of 9)

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
	C-1	103	PAHZZ	5925-00-444-0595	5054860-7	57958	CIRCUIT BREAKER		EA	1
C	C-1	104	XBHZZ		C5147101-1	57958	SPACER BAR		EA	1
	C-1	105	PAHZZ	5925-01-131-7584	5054860-6	57958	CIRCUIT BREAKER		EA	2
C	C-1	106	XBHZZ		C5147100-1	57958	SUPPORT ASSY		EA	1
	C-1	107	PAHZZ	5925-00-472-0335	5054860-4	57958	CIRCUIT BREAKER		EA	2
	C-1	108	PAHZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT		EA	14
	C-1	109	PAHZZ	5975-01-093-0341	M81714-5-6	81349	TRACK,TJB		EA	1
	C-1	110	PAHZZ	5940-00-533-4822	M81714-2AB3	81349	TERM JCT BLOCK		EA	6
	C-1	111	PAHZZ	5940-00-161-0449	M81714-2AA1	81349	TERM JCT BLOCK		EA	1
	C-1	112	PAHZZ	5910-00-581-5116	5054590-1	57958	CAP,FXD,PAPER		EA	1
	C-1	113	PAHZZ	5305-00-088-9665	MS24693C29	96906	SCR,MACH,FL HD		EA	1
	C-1	114	PAHZZ	5305-00-054-6653	MS51957-29	96906	SCR,MACH,PAN HD		EA	25
	C-1	115	PAHHD	5999-01-138-8727	5051841-1	57958	CKT CARD ASSY		EA	1
	C-1	116	PAHZZ	5310-00-834-1170	5054437-3	57958	SPACER,THD,RND		EA	6
	C-1	117	PAHZZ	5305-00-054-5651	MS51957-17	96906	SCR,MACH,PAN HD		EA	8
	C-1	118	XBHZZ		5052291-1	57958	BRACKET,MONITOR		EA	1
	C-1	119	XBHZZ		5052281-1	57958	GUIDE,CHASSIS		EA	12
	C-1	120	PAHZZ	5310-00-595-6761	MS15795-802	96906	WASHER,FLAT		EA	72
	C-1	121	PAHZZ	5310-00-928-2690	MS35338-134	96906	WASHER,LOCK		EA	48
	C-1	122	PAHZZ	5310-00-938-2013	MS35649-224	96906	NUT,PLAIN,HEX		EA	48
	C-1	123	PAHZZ	5305-00-054-5640	MS51957-6	96906	SCR,MACH,PAN HD		EA	16
C	C-1	124	XBHZZ		C5147088-2	57958	SHAFT		EA	1
	C-1	125	PAHZZ	5310-00-959-6622	5054676-2	57958	NUT,SLFLKG,PL		EA	5
	C-1	126	XBHZZ	5320-00-119-6754	MS20470AD2-3	96906	RIVET,SOLID		EA	10
C	C-1	127	PAHZZ	5305-00-066-7327	MS24693C28	96906	SCR,MACH,FL HD		EA	4
	C-1	128	PAFZZ	5310-00-771-7396	MS21076L06	96906	NUT,SLFLKG,PL		EA	2
C	C-1	129	PAHZZ		5054831-1	57958	BUSHING		EA	1
C	C-1	130	PAHZZ		5054884-1	57958	SPACER,THD,RND		EA	1
C	C-1	131	PAHZZ	5305-01-011-2188	MS51029-101	96906	SET SCREW		EA	2
C	C-1	132	PAHZZ	5305-00-066-7328	MS24693C27	96906	SET,MACH,FL HD		EA	2
	C-1	133	PAHZZ	5340-01-079-8324	5054887-1	57958	SPACER,THD,RND		EA	1
	C-1	134	PAHZZ	5360-00-124-2095	MS24585C143	96906	SPR,HLCL,CPRSN		EA	1

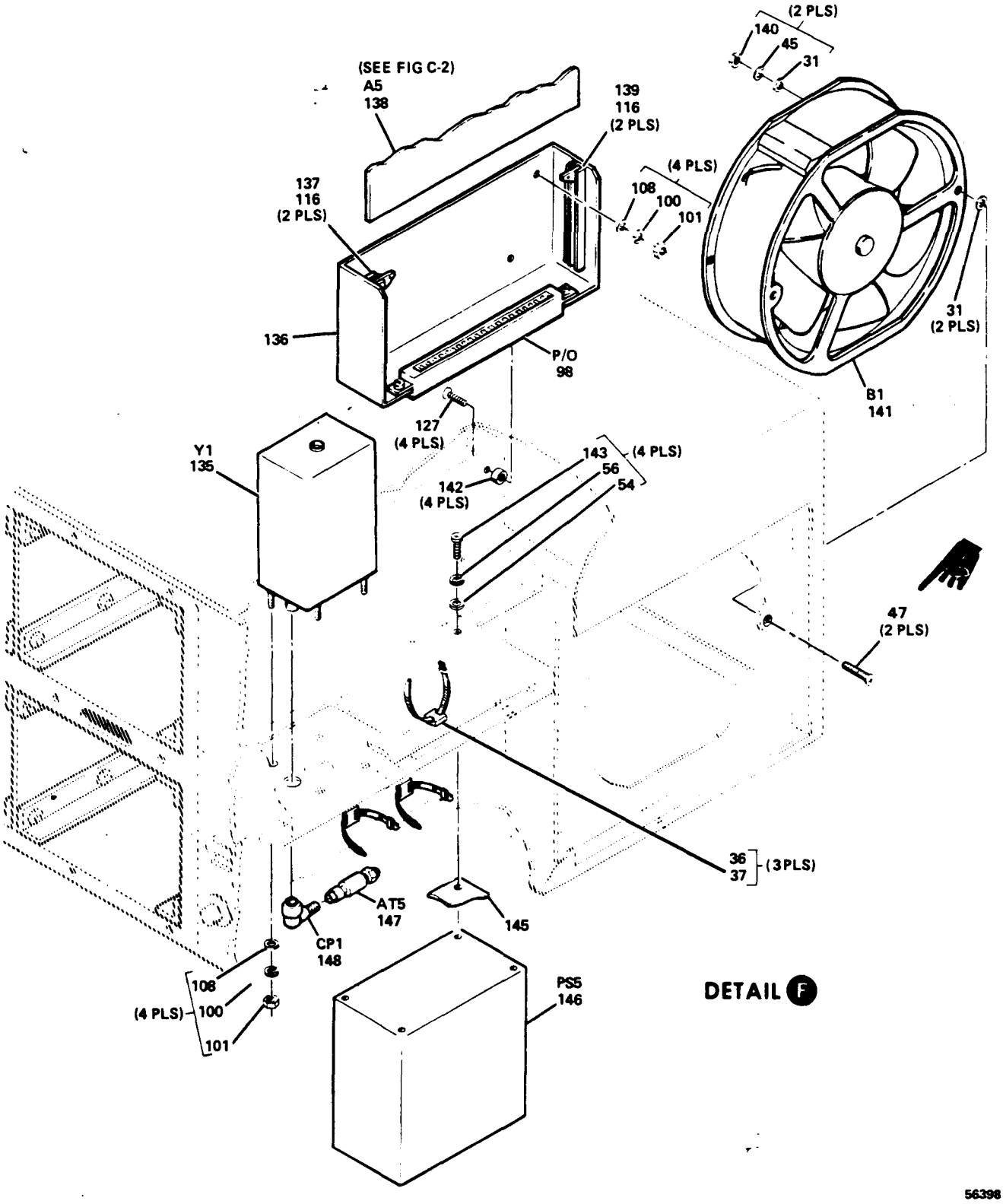


Figure C-1. Receiver Set 5051640-1 (Sheet 7 of 9)

(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-1	135	PAHZZ	5955-01-142-9793	5054967-1	57958	OSCILLATOR,RF		EA	1
C-1	136	XBHHH		5052282-1	57958	BRACKET,CCA		EA	1
C-1	137	XBHZZ		5054821-5	57958	HLDR,ELEC CARD		EA	1
C-1	138	PAHHD		5051909-1	57958	CKT CARD ASSY		EA	1
C-1	139	XBHZZ		5054821-6	57958	HLDR,ELEC CARD		EA	1
C-1	140	PAHZZ	5310-00-934-9759	MS35649-284	96906	NUT,PLAIN,HEX		EA	2
C-1	141	PAHZZ	4140-01-133-9010	5054491-1	57958	FAN,TUBEAXIAL		EA	1
C-1	142	PAHZZ		5054884-20	57958	SPACER,THD,RND		EA	4
C-1	143	PAFZZ	5305-00-059-3659	MS51958-63	96906	SCR,MACH,PAN HD		EA	4
C-1	145	PAHZZ	5970-01-133-7786	5054919-3	57958	INSUL,THRM CNDT		EA	1
C-1	146	PAHDD		0213-2-1196-20	57958	POWER SUPPLY		EA	1
C-1	147	PAHZZ		5068007-7	81349	ATTENUATOR,FXD		EA	1
C-1	148	PAHZZ	5935-01-092-9425	5054868-1	57958	ADAPTER,CONN		EA	1

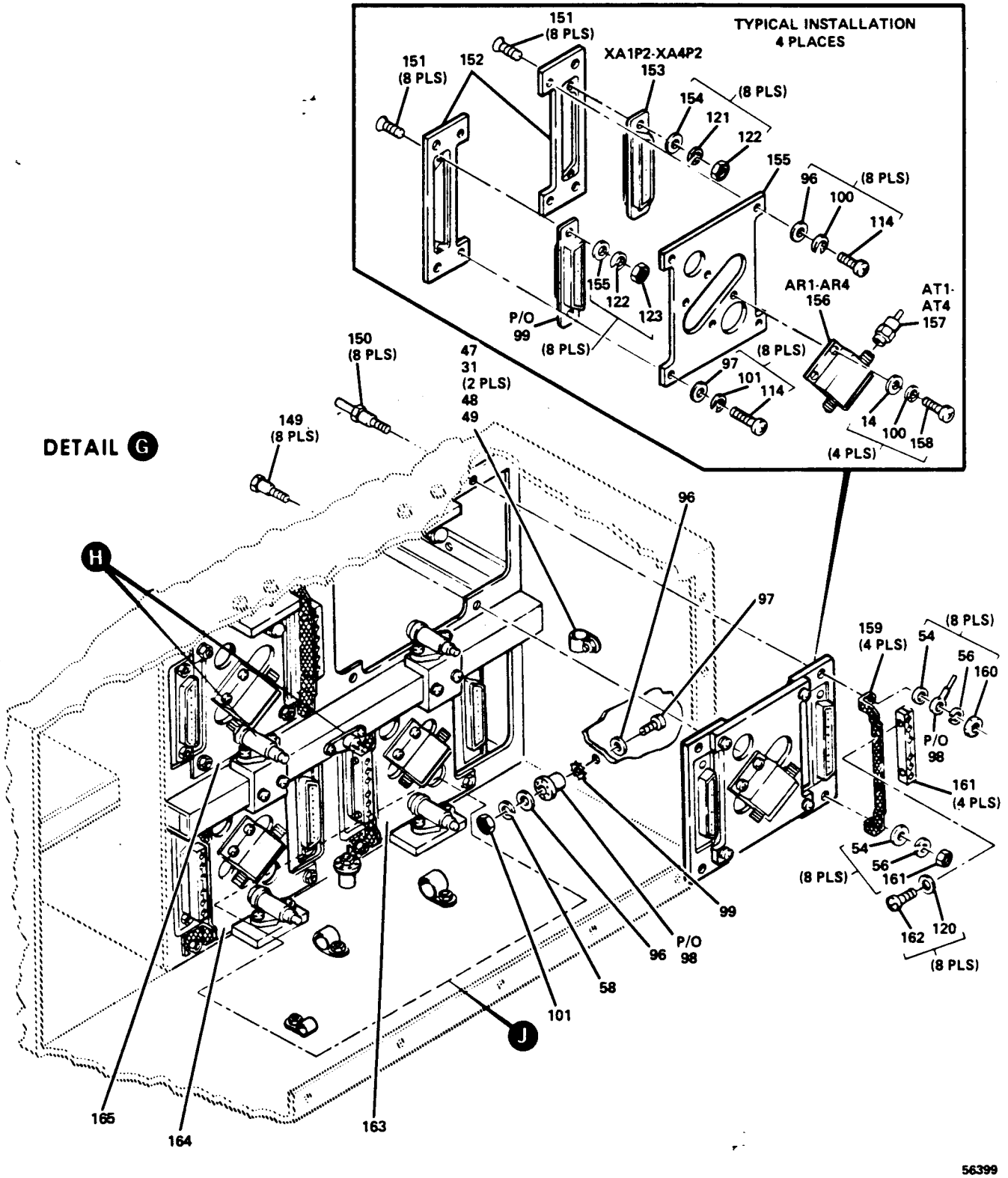


Figure C-1. Receiver Set 5051640-1 (Sheet 8 of 9)

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
	C-1	149	PAHZZ		5052288-1	57958	SCREW,SHOULDER		EA	8
	C-1	150	PAHZZ		5052289-1	57958	PIN,GUIDE		EA	8
C	C-1	151	PAHZZ		NAS1189E02P6	80205	SCREW,SLFLKG		EA	16
	C-1	152	XBHZZ		5051649-1	57958	PLATE,MTG,CONN		EA	8
	C-1	153	PAHZZ	5935-01-078-0311	5054567-1	57958	CONN BODY,RCPT		EA	4
	C-1	154	PAHZZ	5310-00-043-4708	NAS620C2	80205	WASHER,FLAT		EA	16
	C-1	155	XBHZZ		5051648-1	57958	PLATE,MTG,AMPL		EA	1
	C-1	156	PAHZZ	5895-01-135-8457	5054580-1	57958	AMPLIFIER,RF		EA	4
C	C-1	157	PAHZZ		5068007-6	81349	ATTENUATOR,FXD		EA	4
	C-1	158	PAHZZ	5305-00-054-5649	MS51957-15	96906	SCR,MACH,PAN HD		EA	16
	C-1	159	XBHZZ		C5075847-1	57958	LEAD,ELECTRICAL		EA	4
	C-1	160	PAHZZ	5310-00-934-9765	MS35650-304	96906	NUT,PLAIN,HEX		EA	16
	C-1	161	PAHZZ		C5077436-1	57958	CLAMP,CABLE		EA	4
C	C-1	162	PAHZZ	5305-00-054-5639	MS51957-5	96906	SCR,MACH,PAN HD		EA	24
	C-1	163	XBHZZ		5051648-3	57958	PLATE,MTG,AMPL		EA	1
	C-1	164	XBHZZ		5051648-4	57958	PLATE,MTG,AMPL		EA	1
	C-1	165	XBHZZ		5051648-2	57958	PLATE,MTG,AMPL		EA	1

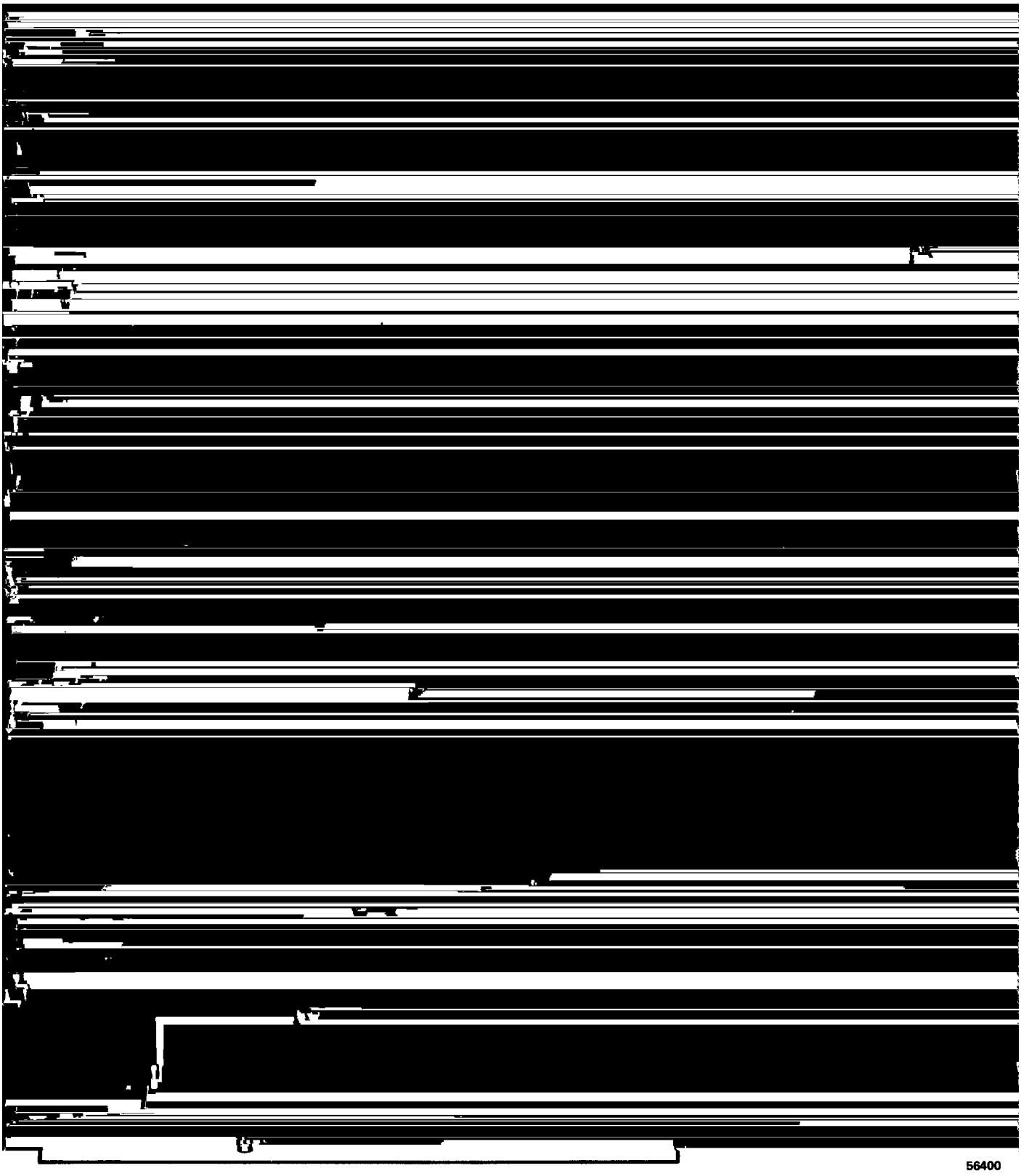
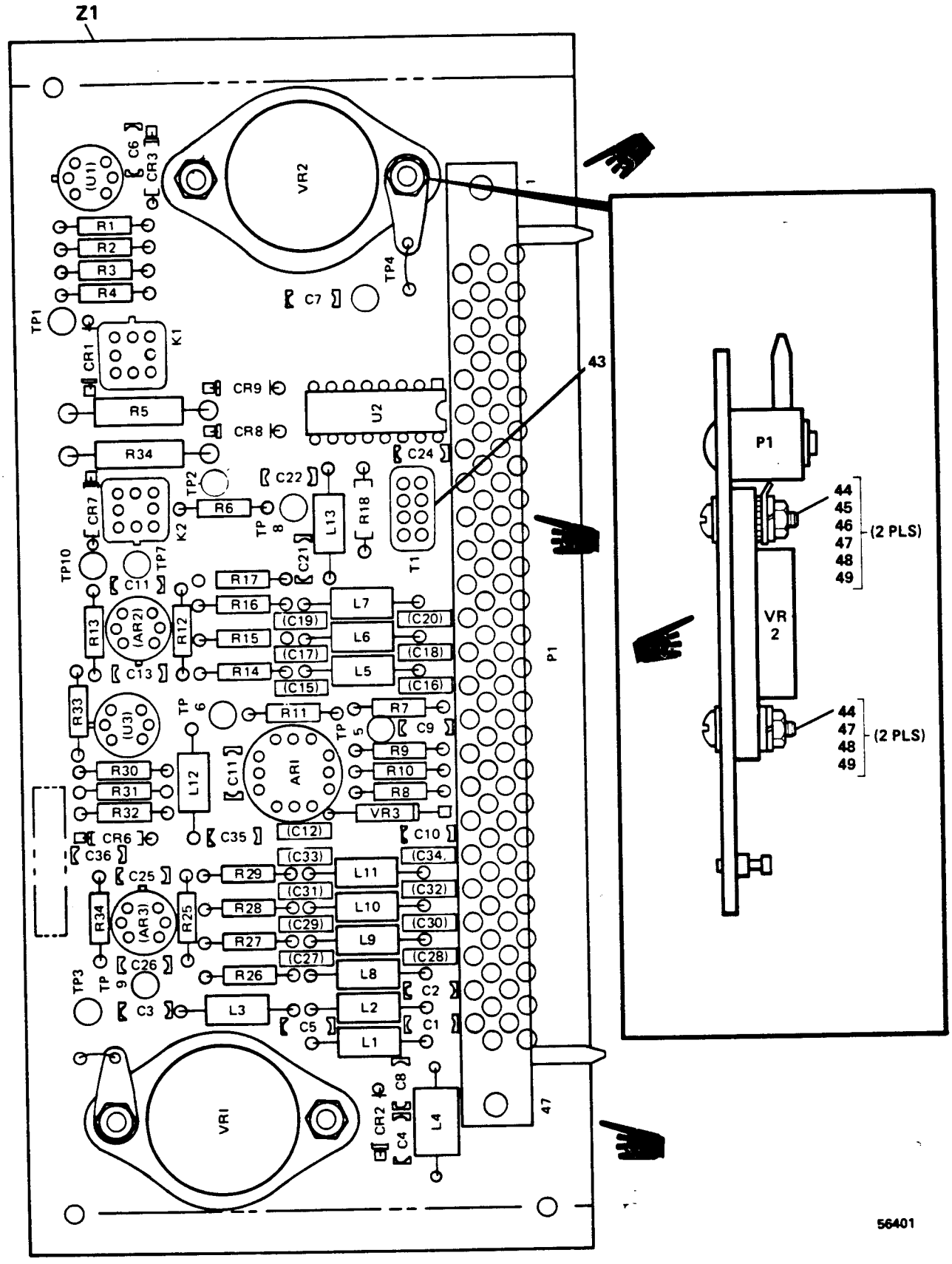


Figure C-1. Receiver Set 5051640-1 (Sheet 9 of 9)

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
	C-1	166	XBHZZ		5052287-1	57958	SPACER,PLUNGER		EA	4
	C-1	167	PAHZZ	5340-00-770-3841	5054578-1	57958	STOP,SPRING		EA	8
	C-1	168	PAHZZ	5305-00-054-5650	MS51957-16	96906	SCR,MACH,PAN HD		EA	16
	C-1	169	PAHZZ	5340-01-014-0696	MS25281R8	96906	CLAMP,LOOP		EA	1
	C-1	170	PAHZZ		M24236-1CKJJK	81349	SWITCH,THRMSTC		EA	1
	C-1	171	XBHZZ		5051647-1	57958	SUPPORT,PLUNGER		EA	2
	C-1	172	PAHZZ	5305-00-054-6669	MS51957-44	96906	SCR,MACH,PAN HD		EA	12
C	C-1	173	PAHZZ	5340-00-989-9224	MS25281R6	96906	CLAMP,LOOP		EA	1
	C-1	174	PAHZZ		MS51859-3	96906	WASHER,FLAT-PLASTIC		EA	8



PREFIX ALL REFERENCE DESIGNATIONS WITH A25A5

Figure C-2. CCA, RF Buffer/Amplifier 5051909-1 (Sheet 1 of 2)

LEGEND

REF DES	INDEX NO.	REF DES	INDEX NO.
AR1	1	L9	18
AR2	2	L10	18
AR3	2	L11	18
C1	3	L12	19
C2	3	L13	20
C3	4	R1	21
C4	5	R2	22
C5	4	R3	23
C6	5	R4	24
C7	4	R5	25
C8	4	R6	26
C9	3	R7	27
C10	3	R8	28
C11	4	R9	29
C12	6	R10	30
C13	4	R11	21
C14	3	R12	31
C15	7	R13	31
C16	8	R14	32
C17	7	R15	32
C18	8	R16	32
C19	7	R17	33
C20	8	R18	27
C21	8	R20	30
C22	8	R24	31
C24	4	R25	31
C25	4	R26	32
C26	3	R27	32
C27	9	R28	32
C28	10	R29	32
C29	9	R30	21
C30	10	R31	22
C31	9	R32	34
C32	10	R33	35
C33	9	R34	25
C34	10	T1	36
C35	3	U1	37
C36	3	U2	38
CR1	11	U3	37
CR2	12	VR1	39
CR3	12	VR2	40
*CR6	13	VR3	41
CR7	11	Z1	42
CR8	12		
CR9	12		
K1	14		
K2	14		
L1	15		
L2	15		
L3	15		
L4	16		
L5	17		
L6	17		
L7	17		
L8	18		

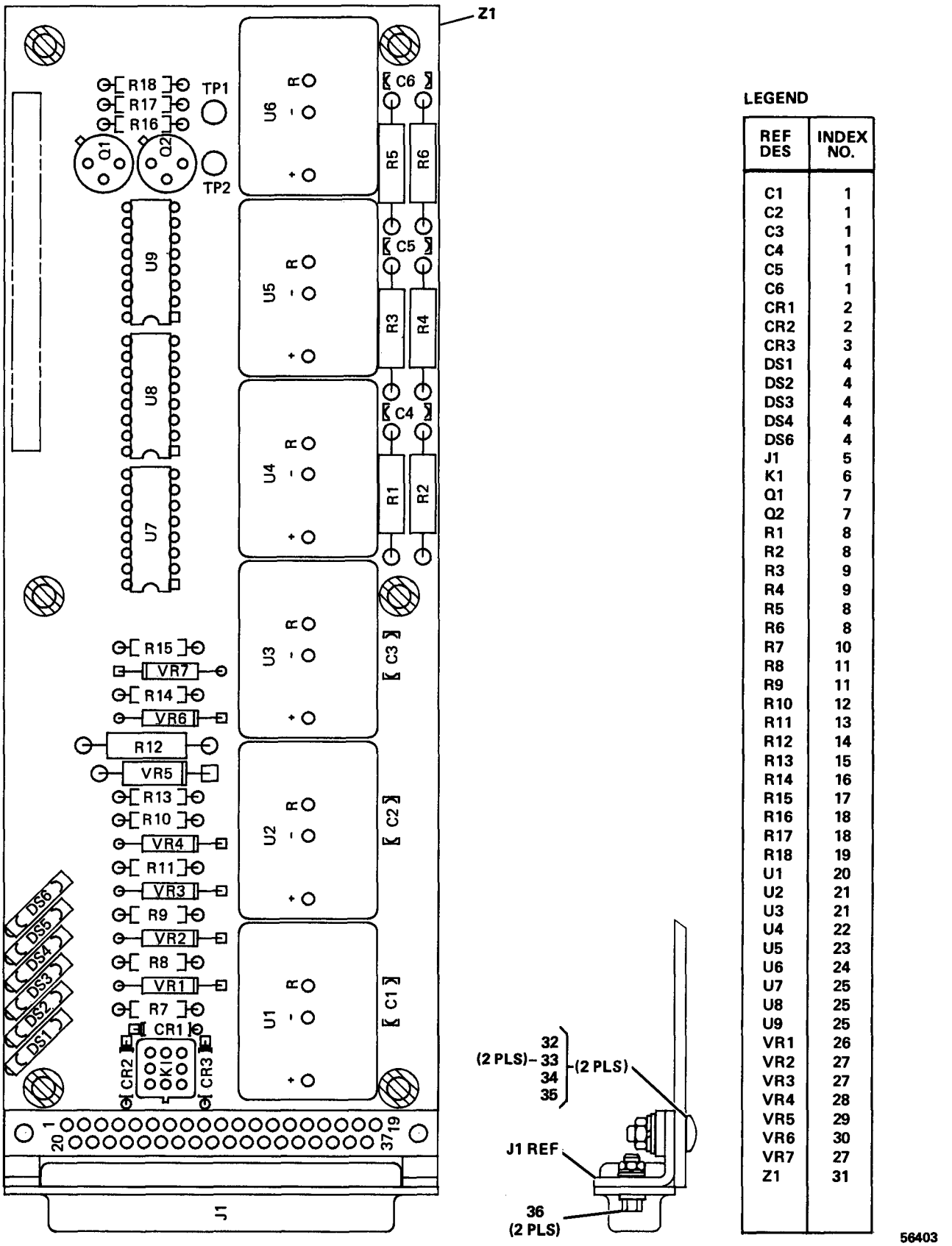
*SEE CAUTION

CAUTION
THIS DEVICE REQUIRES SPECIAL HANDLING AND PROCESSING TO PREVENT DAMAGE FROM ELECTROSTATIC DISCHARGE TRANSIENTS.

56402

Figure C-2. CCA, RF Buffer/Amplifier 5051909-1 (Sheet 2 of 2)

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 01 CCA, RF BUFFER/ AMPLIFIER (57958) 5051909-1			
	C-2	1	PAHZZ	5962-00-615-5017	5068033-1	57958	MICROCKT,LIN		EA	1
	C-2	2	PAHZZ	5962-01-073-9544	7801301GX	14933	MICROCKT,LIN		EA	2
	C-2	3	PAHZZ	5910-00-513-5385	M39014-02-1218	81349	CAP,FXD,CER		EA	6
	C-2	4	PAHZZ	5910-00-600-6889	M39014-02-1230	81349	CAP,FXD,CER		EA	8
	C-2	5	PAHZZ	5910-01-033-5234	M39014-02-1236	81349	CAP,FXD,CER		EA	2
	C-2	6	PAHZZ	5910-00-175-4241	M23269-10-3011	81349	CAP,FXD,GLASS		EA	1
	C-2	7	PAHZZ	5910-00-443-8984	M23269-10-3142	81349	CAP,FXD,GLASS		EA	3
	C-2	8	PAHZZ	5910-00-763-7454	M23269-10-3106	81349	CAP,FXD,GLASS		EA	5
	C-2	9	PAHZZ	5910-00-165-2606	M23269-10-3118	81349	CAP,FXD,GLASS		EA	4
	C-2	10	PAHZZ	5910-01-017-6162	M23269-10-3085	81349	CAP,FXD,GLASS		EA	4
	C-2	11	PAHZZ	5961-01-038-6918	JAN1N4148-1	81349	SCND DVC,DIODE		EA	2
	C-2	12	PAHZZ	5961-01-PAC-9833	JAN1N4150-1	81349	SCND DVC,DIODE		EA	4
	C-2	13	PAHZZ	5961-00-048-7106	JAN1N5712	81349	SCND DVC,DIODE		EA	1
C	C-2	14	PAHZZ		M39016/41-004L	81349	RELAY,EM		EA	2
	C-2	15	PAHZZ	5950-00-583-8894	MS75089-7	96906	COIL,RF		EA	3
	C-2	16	PAHZZ	5950-00-832-4881	0213-1-1060-1	57958	COIL,RF		EA	1
	C-2	17	PAHZZ	5950-00-328-2588	MS75088-1	96906	COIL,RF		EA	3
	C-2	18	PAHZZ	5950-00-503-8700	MS75088-5	96906	COIL,RF		EA	4
	C-2	19	PAHZZ	5950-01-013-0788	MS75089-19	96906	COIL,RF		EA	1
	C-2	20	PAHZZ	5950-00-943-9174	MS75088-7	96906	COIL,RF		EA	1
	C-2	21	PAHZZ	5905-01-047-1531	RLR07C1002GR	81349	RES,FXD,FILM		EA	3
	C-2	22	PAHZZ	5905-00-419-3949	RLR07C8201GR	81349	RES,FXD,FILM		EA	2
	C-2	23	PAHZZ	5905-00-419-2822	RLR07C2001GR	81349	RES,FXD,FILM		EA	1
	C-2	24	PAHZZ	5905-00-436-8557	RLR07C1203GR	81349	RES,FXD,FILM		EA	1
	C-2	25	PAHZZ	5905-00-926-8706	RLR20C1000GR	81349	RES,FXD,FILM		EA	2
	C-2	26	PAHZZ	5905-00-438-0505	RLR07C4701GR	81349	RES,FXD,FILM		EA	1
	C-2	27	PAHZZ	5905-00-223-2610	RLR07C51R0GR	81349	RES,FXD,FILM		EA	2
	C-2	28	PAHZZ	5905-00-419-2823	RLR07C7501GR	81349	RES,FXD,FILM		EA	1
	C-2	29	PAHZZ	5905-00-438-0506	RLR07C5101GR	81349	RES,FXD,FILM		EA	1
	C-2	30	PAHZZ	5905-01-047-1529	RLR07C1001GR	81349	RES,FXD,FILM		EA	1
	C-2	31	PAHZZ	5905-00-438-0447	RLR07C47R0GR	81349	RES,FXD,FILM		EA	4
	C-2	32	PAHZZ	5905-00-758-2917	RLR07C5100GR	81349	RES,FXD,FILM		EA	7
	C-2	33	PAHZZ	5905-00-458-9263	RLR07C1000GR	81349	RES,FXD,FILM		EA	1
	C-2	34	PAHZZ	5905-01-047-1530	RLR07C2201GR	81349	RES,FXD,FILM		EA	1
	C-2	35	PAHZZ	5905-00-111-1684	RCR07G155JS	81349	RES,FXD,CMPSN		EA	1
	C-2	36	PAHZZ	5950-01-067-1012	5054695-1	57958	TRANSFORMER,RF		EA	1
	C-2	37	PAHZZ	5962-01-048-7767	M38510-10304BGX	81349	MICROCKT,LIN		EA	2
	C-2	38	PAHZZ	5962-01-019-6176	0213-1-1295-2	57958	MICROCKT,DGTL		EA	1
	C-2	39	PAHZZ	5962-01-093-2695	5068043-1	57958	MICROCKT,LIN		EA	1
	C-2	40	PAHZZ		5068043-2	57958	MICROCKT,LIN		EA	1
	C-2	41	PAHZZ	5961-00-024-0606	JAN1N4100	81349	SCND DVC,DIODE		EA	1
	C-2	42	XA		5051911-1	57958	PRINTED WRG BD		EA	1
	C-2	43	PAHZZ	5999-00-931-6238	5054696-1	57958	MTG PAD,CMPNT		EA	1
	C-2	44	PAHZZ	5305-00-054-5649	MS51957-15	96906	SCR,MACH,PAN HD		EA	4
	C-2	45	PAHZZ	5310-00-058-3599	MS35335-57	96906	WASHER,LOCK		EA	2
	C-2	46	PAHZZ	5940-00-740-7933	0213-1-1167-1	57958	TERMINAL,LUG		EA	2
	C-2	47	PAHZZ	5310-00-057-0573	NAS620C4	80205	WASHER,FLAT		EA	6
	C-2	48	PAHZZ	5310-00-933-8118	MS35338-135	96906	WASHER,LOCK		EA	4
	C-2	49	PAHZZ	5310-00-934-9748	MS35649-244	96906	NUT,PLAIN,HEX		EA	4



LEGEND

REF DES	INDEX NO.
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C2	1
C3	1
C4	1
C5	1
C6	1
CR1	2
CR2	2
CR3	3
DS1	4
DS2	4
DS3	4
DS4	4
DS6	4
J1	5
K1	6
Q1	7
Q2	7
R1	8
R2	8
R3	9
R4	9
R5	8
R6	8
R7	10
R8	11
R9	11
R10	12
R11	13
R12	14
R13	15
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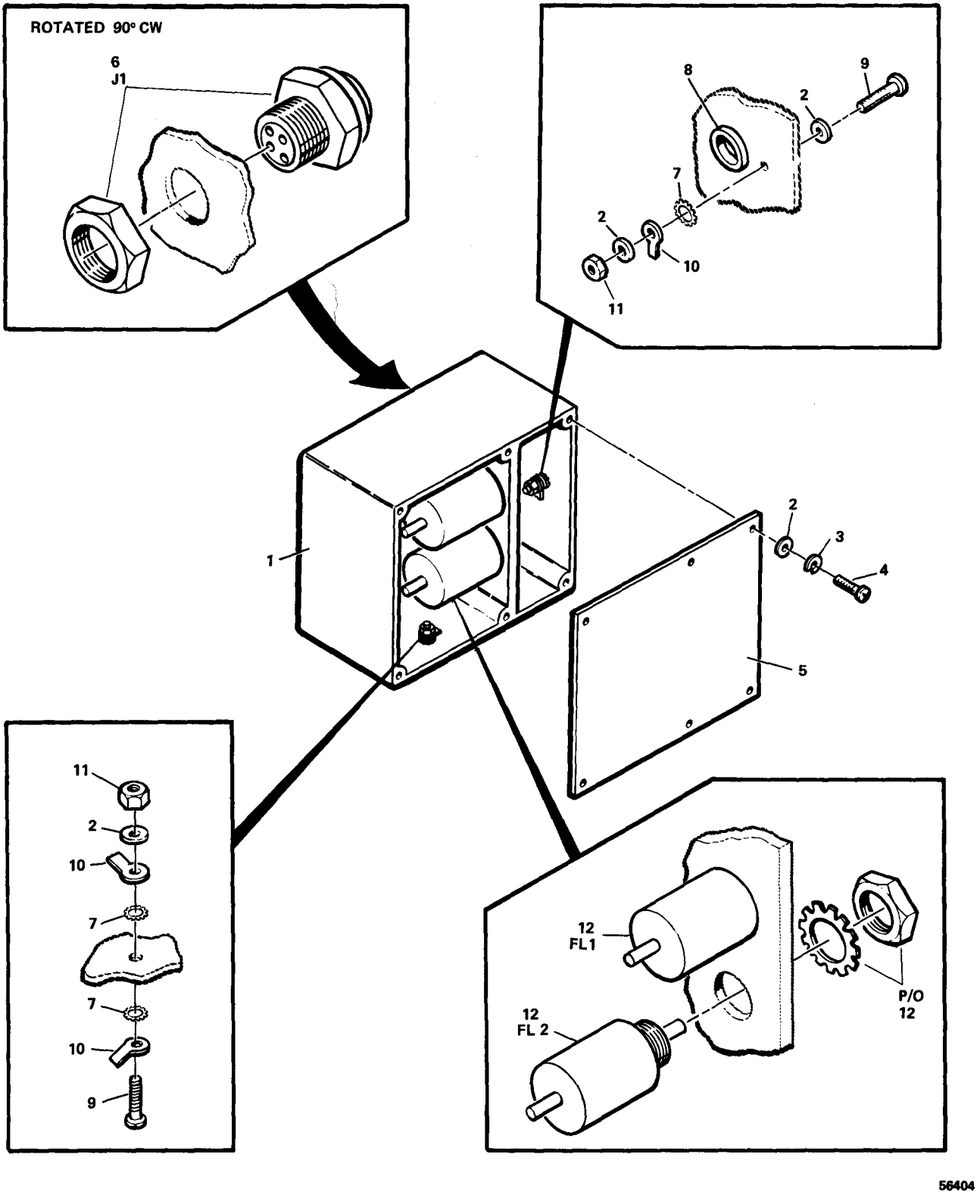
R15	17
R16	18
R17	18
R18	19
U1	20
U2	21
U3	21
U4	22
U5	23
U6	24
U7	25
U8	25
U9	25
VR1	26
VR2	27
VR3	27
VR4	28
VR5	29
VR6	30
VR7	27
Z1	31

PREFIX ALL REFERENCE DESIGNATIONS WITH A25A6

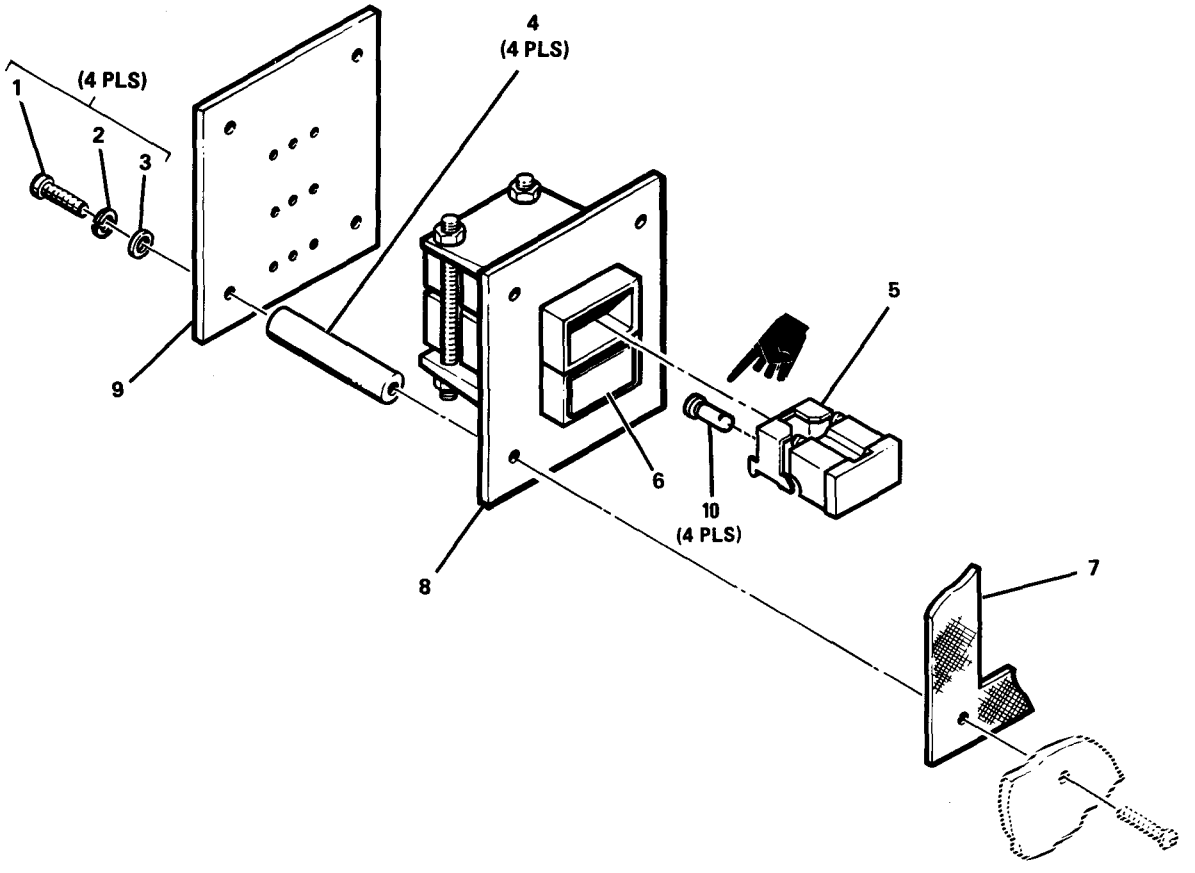
Figure C-3. CCA, Power Monitor - Receiver Set 5051841-1

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 02 CCA, POWER MONITOR- RECEIVER (57958) 5051841-1			
	C-3	1	PAHZZ	5910-00-600-6889	M39014-02-1230	81349	CAP,FXD,CER		EA	6
	C-3	2	PAHZZ	5961-01-PAC-9833	JAN1N4150-1	81349	SCND DVC,DIODE		EA	2
	C-3	3	PAHZZ	5961-01-038-6918	JAN1N4148-1	81349	SCND DVC,DIODE		EA	1
	C-3	4	PAHZZ	5961-01-121-7752	0213-1-1056-1	57958	SCND DVC,LED		EA	5
	C-3	5	PAHZZ	5935-01-084-0795	M24308-24-28	81349	CONN,RCPT,ELEC		EA	1
C	C-3	6	PAHZZ		M39016/41-004L	81349	RELAY,EM		EA	1
	C-3	7	PAHZZ	5961-00-949-1440	JAN2N2905A	81349	TRANSISTOR		EA	2
	C-3	8	PAHZZ	5905-00-111-4852	RCR20G2R7JS	81349	RES,FXD,CMPSN		EA	4
	C-3	9	PAHZZ	5905-00-454-2868	RCR20G3R3JS	81349	RES,FXD,CMPSN		EA	2
	C-3	10	PAHZZ	5905-00-240-7979	RLR07C4700GR	81349	RES,FXD,FILM		EA	1
	C-3	11	PAHZZ	5905-00-721-0011	RLR07C4300GR	81349	RES,FXD,FILM		EA	2
	C-3	12	PAHZZ	5905-01-047-1530	RLR07C2201GR	81349	RES,FXD,FILM		EA	1
	C-3	13	PAHZZ	5905-00-481-7950	RLR07C3601GR	81349	RES,FXD,FILM		EA	1
	C-3	14	PAHZZ	5905-00-240-2756	RLR20C3301GR	81349	RES,FXD,FILM		EA	1
	C-3	15	PAHZZ	5905-00-419-2823	RLR07C7501GR	81349	RES,FXD,FILM		EA	1
	C-3	16	PAHZZ	5905-00-413-1029	RLR07C3900GR	81349	RES,FXD,FILM		EA	1
	C-3	17	PAHZZ	5905-00-498-5684	RLR07C8200GR	81349	RES,FXD,FILM		EA	1
	C-3	18	PAHZZ	5905-00-758-2918	RLR07C6201GR	81349	RES,FXD,FILM		EA	2
	C-3	19	PAHZZ	5905-00-240-7950	RLR07C1501GR	81349	RES,FXD,FILM		EA	1
	C-3	20	PAHZZ	5920-01-134-5445	5054818-2	57958	PROTECTOR,OVV		EA	1
	C-3	21	PAHZZ	5920-01-136-4708	5054818-5	57958	PROTECTOR,OVV		EA	2
	C-3	22	PAHZZ	5920-01-137-1461	5054818-10	57958	PROTECTOR,OVV		EA	1
	C-3	23	PAHZZ	5920-01-137-1462	5054818-11	57958	PROTECTOR,OVV		EA	1
	C-3	24	PAHZZ	5920-01-136-4709	5054818-7	57958	PROTECTOR,OVV		EA	1
	C-3	25	PAHZZ	5961-01-135-1532	5068122-1	57958	CPLR,OPTOELEK		EA	3
	C-3	26	PAHZZ	5961-00-311-2860	JAN1N4619	81349	SCND DVC,DIODE		EA	1
	C-3	27	PAHZZ	5961-00-262-5861	JAN1N4109	81349	SCND DVC,DIODE		EA	3
	C-3	28	PAHZZ	5961-01-012-8200	JAN1N4114	81349	SCND DVC,DIODE		EA	1
	C-3	29	PAHZZ	5961-01-146-3018	JAN1N4978	81349	SCND DVC,DIODE		EA	1
	C-3	30	PAHZZ	5961-01-135-3651	JAN1N4113	81349	SCND DVC,DIODE		EA	1
	C-3	31	XA		5051843-1	57958	PRINTED WRG BD		EA	1
	C-3	32	PAHZZ	5305-00-054-5639	MS51957-5	96906	SCR,MACH,PAN HD		EA	2
	C-3	33	PAHZZ	5310-00-043-4708	NAS620C2	80205	WASHER,FLAT		EA	4
	C-3	34	PAHZZ	5310-00-928-2690	MS35338-134	96906	WASHER,LOCK		EA	2
	C-3	35	PAHZZ	5310-00-812-4294	NAS671C2	80205	NUT,PLAIN,HEX		EA	2
	C-3	36	PAHZZ	5935-01-052-9436	M24308-26-1	81349	RTNR,ELEC CONN		EA	2



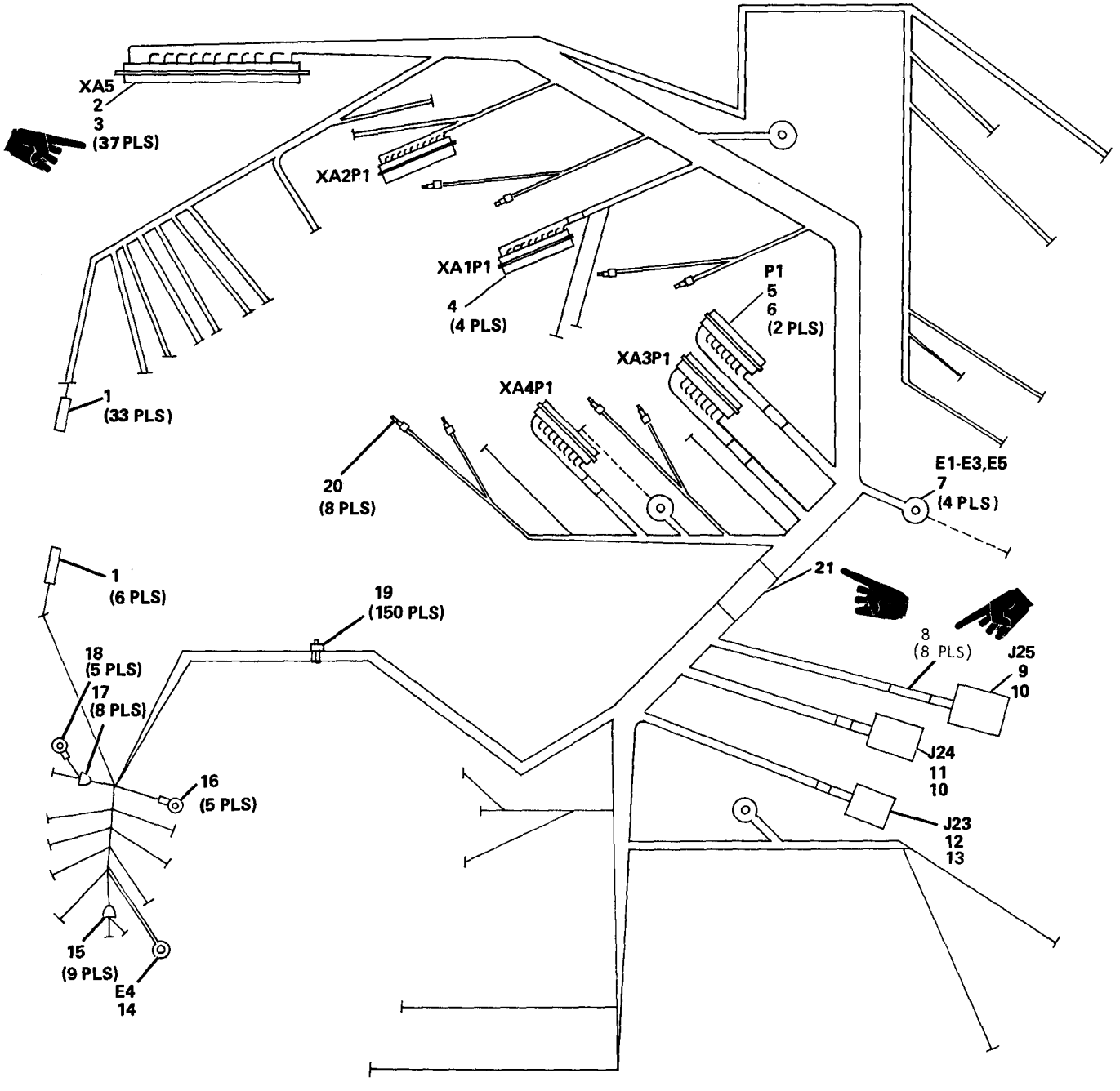
PREFIX ALL REFERENCE DESIGNATIONS WITH A25A7
Figure C-4. Filter Assy., EMI 5051780-2

(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 04 FILTER ASSY., EMI (57958) 5051780-2			
C-4	1	XBHZZ		5051781-1	57958	HOUSING,FILTER		EA	1
C-4	2	PAHZZ	5310-00-595-6211	MS15795-803	96906	WASHER,FLAT		EA	9
C-4	3	PAHZZ	5310-00-933-8118	MS35338-135	96906	WASHER,LOCK		EA	6
C-4	4	PAHZZ	5305-00-054-5647	MS51957-13	96906	SCR,MACH,PAN HD		EA	6
C-4	5	XBHZZ		5051782-1	57958	COVER,FILTER		EA	1
C-4	6	PAHZZ	5935-00-481-4095	MS3474L12-3P	96906	CONN,RCPT,ELEC		EA	1
C-4	7	PAHZZ	5310-00-058-3599	MS35335-57	96906	WASHER,LOCK		EA	3
C-4	8	PAHZZ	5325-01-078-5181	MS35489-35	96906	GROMMET,NM		EA	1
C-4	9	PAHZZ	5305-00-054-5651	MS51957-17	96906	SCR,MACH,PAN HD		EA	2
C-4	10	PAHZZ	5940-00-740-7933	0213-1-1167-1	57958	TERMINAL,LUG		EA	3
C-4	11	PAHZZ	5310-00-982-4999	MS21044C04	96906	NUT,SLFLKG,HEX		EA	1
C-4	12	PAHZZ	5915-01-138-0653	5054802-2	57958	FILTER,RFI		EA	2



PREFIX ALL REFERENCE DESIGNATIONS WITH A25A8
Figure C-5. Light Indicator Assy 5052299-2

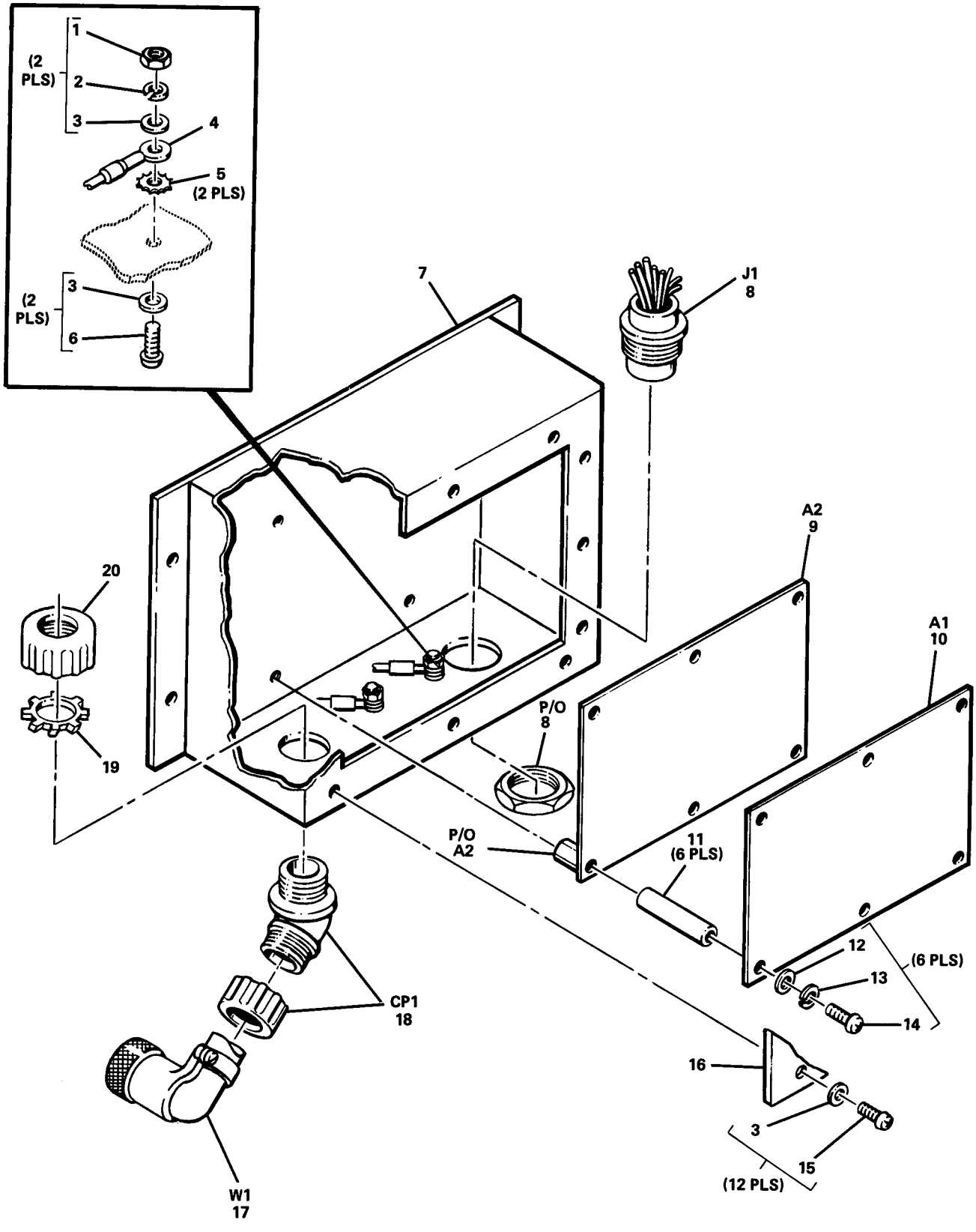
	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 05 LIGHT INDICATOR ASSY. (57958) 5052299-2			
	C-5	1	PAHZZ	5305-00-054-6650	MS51957-26	96906	SCR,MACH,PAN HD		EA	4
	C-5	2	PAHZZ	5310-00-209-1366	MS35335-58	96906	WASHER,LOCK		EA	4
	C-5	3	PAHZZ	5310-00-773-7624	NAS620C6	80205	WASHER,FLAT		EA	4
	C-5	4	PAHZZ	5340-00-001-4838	5054884-1	57958	SPACER,THD,RND		EA	4
	C-5	5	PAHZZ	6210-01-131-9563	5054907-32	57958	LIGHT,INDICATOR		EA	1
	C-5	6	PAHZZ	6210-01-131-9564	5054907-33	57958	LIGHT,INDICATOR		EA	1
	C-5	7	PAHZZ		5053038-2	57958	SHLD GSKT,ELEK		EA	1
	C-5	8	XBHHH		5054888-2	57958	IND LIGHT ASSY		EA	1
	C-5	9	XBHZZ		5051991-1	57958	PRINTED WRG BD		EA	1
N	C-5	10	PAOZZ	6240-00-143-6558	MS3338-6839	96906	LAMP,INCAND		EA	4



PREFIX ALL REFERENCE DESIGNATIONS WITH A25W35

Figure C-6. Wiring Harness, Br 5051664-1

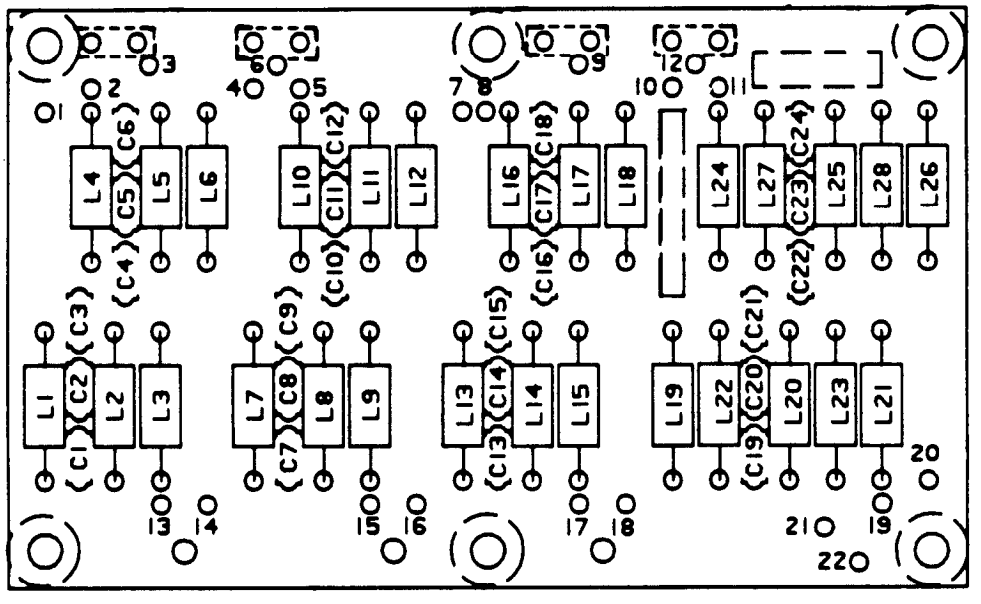
	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 37 WIRING HARNESS (57958) 5051664-1			
	C-6	1	PAHZZ	5999-00-137-5066	M39029-1-16-20	81349	CONTACT,ELEC		EA	39
	C-6	2	PAHZZ	5935-00-119-8995	M21097-13-06	81349	CONN,RCPT,ELEC		EA	1
C	C-6	3	PAHZZ	5999-00-486-5991	M21097-16-03	81349	CONTACT,ELEC		EA	37
	C-6	4	PAHZZ	5935-00-534-8004	M24308-2-26	81349	CONN,RCPT,ELEC		EA	4
	C-6	5	PAHZZ	5935-00-976-5425	M24308-2-4	81349	CONN,RCPT,ELEC		EA	1
	C-6	6	PAHZZ	5935-01-069-6794	M24308-25-1	81349	RTNR,ELEC CONN		EA	2
	C-6	7	PAHZZ	5940-00-918-8068	SE26XF02	81349	TERMINAL,STUD		EA	4
C	C-6	8	XBHZZ		5054784-3	57958	BAND,MARKER		EA	8
	C-6	9	PAHZZ	5935-00-448-5654	MS3474L18-32P	96906	CONN,RCPT,ELEC		EA	1
	C-6	10	PAHZZ	5935-00-189-2521	MS3416-18EN	96906	BKSHL,ELEC CONN		EA	2
	C-6	11	PAHZZ	5935-00-448-9223	MS3474L18-32S	96906	CONN,RCPT,ELEC		EA	1
	C-6	12	PAHZZ	5935-01-092-3459	MS3474L20-41S	96906	CONN,RCPT,ELEC		EA	1
	C-6	13	PAHZZ	5935-00-503-9112	MS3416-20EN	96906	BKSHL,ELEC CONN		EA	1
	C-6	14	PAHZZ	5940-00-939-7825	SE26XF03	81349	TERMINAL,STUD		EA	1
C	C-6	15	PAHZZ	5940-00-056-8696	NAS1746-3	80205	SPLICE,CNDCT		EA	17
	C-6	16	PAHZZ	5940-00-813-0698	MS25036-101	96906	TERMINAL,LUG		EA	5
C	C-6	17	PAHZZ	5940-00-857-3414	NAS1746-2	80205	SPLICE,CNDCT		EA	4
	C-6	18	PAHZZ	5940-00-577-3807	MS25036-145	96906	TERMINAL,LUG		EA	5
	C-6	19	PAHZZ	5975-00-111-3208	MS3367-5-9	96906	STRAP,TIEDOWN		EA	150
	C-6	20	PAHZZ	5999-00-459-5733	5054568-1	57958	CONTACT,ELEC		EA	8
N	C-6	21	PAHZZ		5054784-4	57958	BAND,MARKER		EA	1



PREFIX ALL REFERENCE DESIGNATIONS WITH A25A10

Figure C-7. Filter Assy., Rcvr. C5075831-1

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 38 FILTER ASSY. RCVR (57958) C5075831-1			
	C-7	1	PAHZZ	5310-00-934-9761	MS35649-264	96906	NUT,PLAIN,HEX		EA	2
	C-7	2	PAHZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK		EA	2
	C-7	3	PAHZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT		EA	16
	C-7	4	PAHZZ	5940-00-813-0698	MS25036-101	96906	TERMINAL,LUG		EA	2
	C-7	5	PAHZZ	5310-00-209-1366	MS35335-58	96906	WASHER,LOCK		EA	2
	C-7	6	PAHZZ	5305-00-054-6654	MS51957-30	96906	SCR,MACH,PAN HD		EA	2
	C-7	7	XBDDD		C5075835-1	57958	CHAS,ELEC EQPT		EA	1
	C-7	8	PAHZZ	5935-00-448-9223	MS3474L18-32S	96906	CONN,RCPT,ELEC		EA	1
	C-7	9	PAHHD		C5075843-1	57958	CKT CARD ASSY		EA	1
	C-7	10	PAHHD		C5075839-1	57958	CKT CARD ASSY		EA	1
C	C-7	11	PAHZZ		5054729-7	57958	SPACER,THD,HEX		EA	6
	C-7	12	PAHZZ	5310-00-595-6211	MS15795-803	96906	WASHER,FLAT		EA	6
	C-7	13	PAHZZ	5310-00-933-8118	MS35338-135	96906	WASHER,LOCK		EA	6
	C-7	14	PAHZZ	5305-00-054-5648	MS51957-14	96906	SCR,MACH,PAN HD		EA	6
	C-7	15	PAHZZ	5305-00-054-6655	MS51957-31	96906	SCR,MACH,PAN HD		EA	12
	C-7	16	XBHZZ		C5075836-1	57958	COVER,ELEK EQPT		EA	1
	C-7	17	XBHHH		C5075837-1	57958	CABLE ASSY,SP		EA	1
	C-7	18	PAHZZ		5054519-53	57958	BSHG,STRAIN RLF		EA	1
	C-7	19	PAFZZ	5975-00-642-7261	5054520-3	57958	LOCKNUT,CONDUIT		EA	1
	C-7	20	PAHZZ	5975-00-962-9882	5054521-2	57958	BSHG,ELEC CND		EA	1



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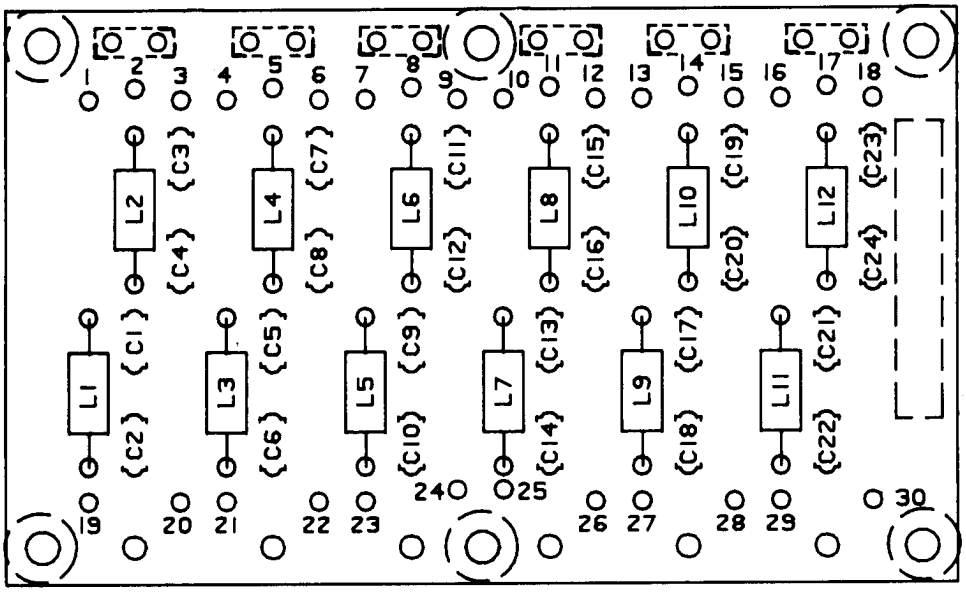
56599

PREFIX ALL REFERENCE DESIGNATIONS WITH A25A10A1
Figure C-8. CCA, Filter C5075839-1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)		(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 3801 CCA,FILTER (57958) C5075839-1			
C-8	1	PAHZZ	5910-00-010-8534	M39014-01-1307	81349	CAP,FXD,CER		EA	24
C-8	2	PAHZZ	5950-00-570-4719	MS75087-12	96906	COIL,RF		EA	16
C-8	3	PAHZZ	5950-00-932-6920	MS75088-3	96906	COIL,RF		EA	8
C-8	4	PAHZZ	5950-01-046-0387	MS75088-8	96906	COIL,RF		EA	4
C-8	5	XA		C5075841-1	57958	PRINTED WRG BD		EA	1



LEGEND

REF DES	INDEX NO.
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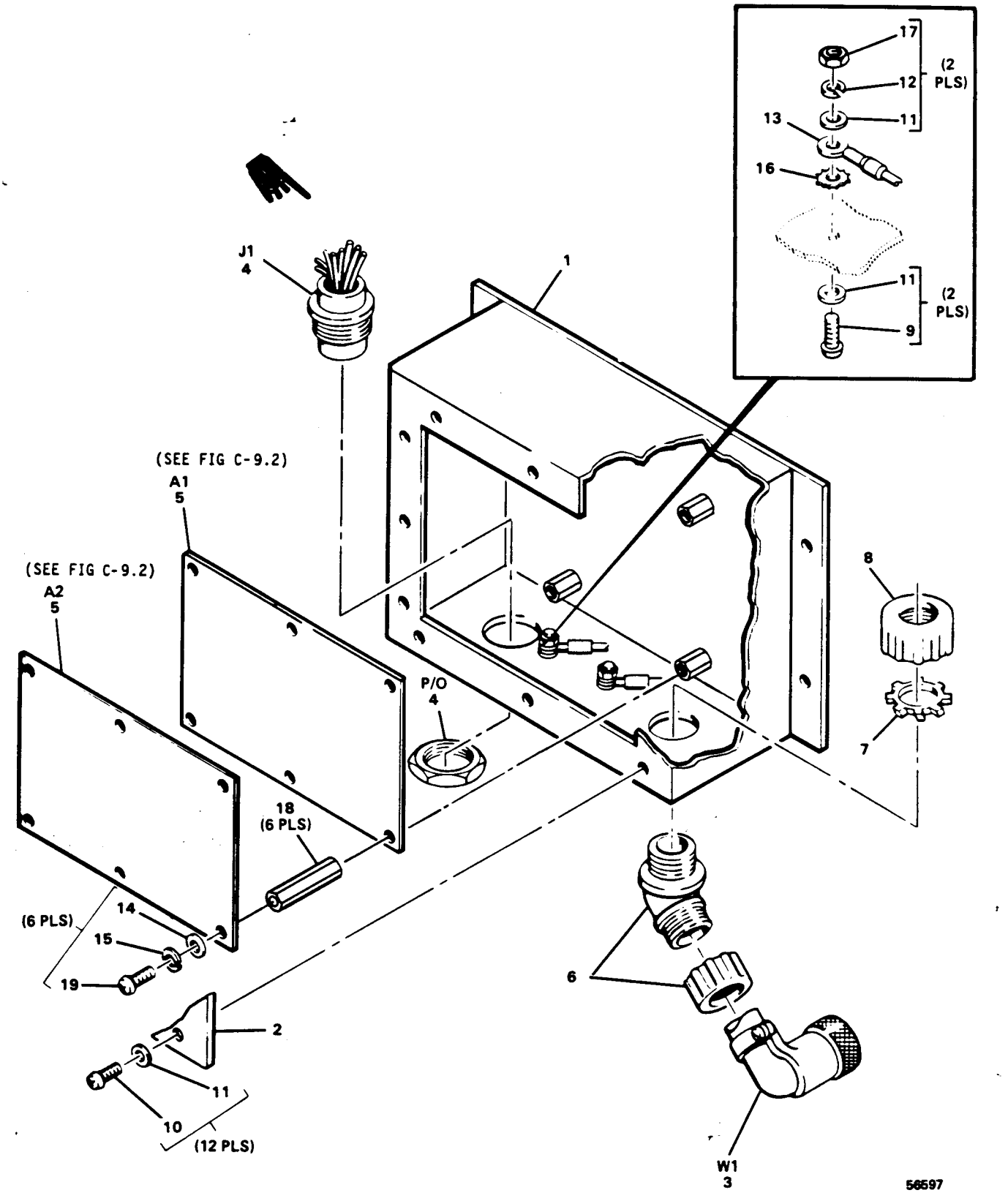
56598

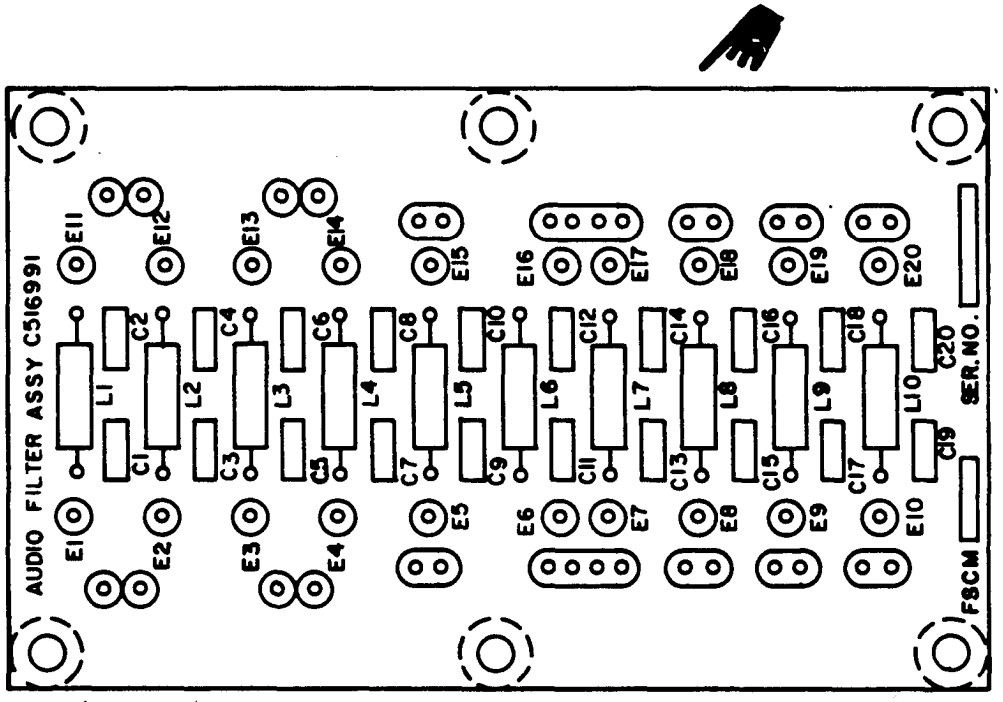
PREFIX ALL REFERENCE DESIGNATIONS WITH A25A10A2
Figure C-9. CCA, Filter Bus 2 C5075843-1

(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 3802 CCA,FILTER BUS 2 (57958) C5075843-1			
C-9	1	PAHZZ	5910-00-546-4209	M39014-01-1317	81349	CAP,FXD,CER		EA	24
C-9	2	PAHZZ	5950-01-022-0501	MS75089-15	96906	COIL,RF		EA	12
C-9	3	XA		C5075845-1	57958	PRINTED WRG BD		EA	1



PREFIX ALL REFERENCE DESIGNATIONS WITH A25A11
Figure C-9.1. Filter Assy., AGC/Audio C5146983-1

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	TM32-5865-061-24&P DESCRIPTION	(7) USABLE ON CODE	U/M	(8) QTY INC IN UNIT
							GROUP 39 FILTER ASSY AGC/AUDIO (57958) C5146983-1			
N	C-9.1	1	XBDDD		C5146984	57958	CHAS,ELEC EQPT		EA	1
N	C-9.1	2	XBHZZ		C5075836	57958	COVER,ELEC EQPT		EA	1
N	C-9.1	3	XBHHH		C5146986	57958	CABLE ASSY SP		EA	1
N	C-9.1	4	PAHZZ	5935-01-092-3459	MS3474L20-41S	96906	CONN,RCPT,ELEC		EA	1
N	C-9.1	5	PAHHD		C5146991	57958	CKT CARD ASSY		EA	2
N	C-9.1	6	PAHZZ		5054519-53	57958	BSHG,STRAIN RLF		EA	1
N	C-9.1	7	PAFZZ	5975-00-642-7261	5054520-3	57958	LOCKOUT,CONDUIT		EA	1
N	C-9.1	8	PAHZZ	5975-00-962-9882	5054521-2	57958	BSHG,ELEC CND		EA	1
N	C-9.1	9	PAHZZ	5305-00-054-6654	MS51957-30	96906	SCR,MACH,PAN HD		EA	2
N	C-9.1	10	PAHZZ	5305-00-054-6652	MS51957-28	96906	SCR,MACH,PAN HD		EA	12
N	C-9.1	11	PAHZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT		EA	16
N	C-9.1	12	PAHZZ	5310-00-209-1366	MS35335-58	96906	WASHER,LOCK		EA	2
N	C-9.1	13	PAHZZ	5940-00-813-0698	MS25036-101	96906	TERMINAL,LUG		EA	1
N	C-9.1	14	PAHZZ	5310-00-595-6211	MS15795-803	96906	WASHER,FLAT		EA	6
N	C-9.1	15	PAHZZ	5310-00-933-8118	MS35338-135	96906	WASHER,LOCK		EA	6
N	C-9.1	16	PAHZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK		EA	2
N	C-9.1	17	PAHZZ	5310-00-934-9761	MS35649-264	96906	NUT,HEX		EA	2
N	C-9.1	18	PAHZZ		5054729-7	57958	SPACER,HEX		EA	6
N	C-9.1	19	PAHZZ	5305-00-054-5648	MS51957-14	96906	SCR,PAN HD		EA	6



LEGEND

REF DES	INDEX NO.
C1	1
C2	1
C3	1
C4	1
C5	1
C6	1
C7	1
C8	1
C9	1
C10	1
C11	1
C12	1
C13	2
C14	2
C15	2
C16	2
C17	2
C18	2
C19	2
C20	2
L1	3
L2	3
L3	3
L4	3
L5	3
L6	3
L7	4
L8	4
L9	4
L10	4

PREFIX ALL REFERENCE DESIGNATIONS WITH ONE OF THE FOLLOWING: A25A11A1, A25A11A2

Figure C-9.2. CCA, AGC/Audio Filter C5146991

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	TM32-5865-061-24&P DESCRIPTION	(7) USABLE ON CODE	(8) QTY INC IN UNIT U/M
							GROUP 3901 CCA,AGC/AUDIO FILTER (57958) C5146991		
N	C-9.2	1	PAHZZ	5910-00-546-4209	M39014/01-1317	81349	CAP,FXD,CER		EA 12
N	C-9.2	2	PAHZZ	5910-00-098-9242	M39014/01-1526	81349	CAP,FXD,CER		EA 8
N	C-9.2	3	PAHZZ	5950-01-037-6903	MS75089-15	96906	COIL,RF		EA 6
N	C-9.2	4	PAHZZ	5950-01-583-8894	MS75089-7	96906	COIL,RF		EA 4

	(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 47 BULK MATERIAL			
	BULK	1	PAHZZ	5970-00-088-2975	M23053-5-104-9	81349	INSUL SLVG,ELEC		FT	V
	BULK	2	PAHZZ	5970-00-812-2969	M23053-5-104-0	81349	INSUL SLVG,ELEC		FT	V
	BULK	3	PAHZZ	5970-00-812-2974	M23053-5-103-0	81349	INSUL SLVG,ELEC		FT	V
	BULK	4	PAHZZ	6145-00-013-8651	M22759-11-16-9	81349	WIRE,ELECTRICAL		FT	V
	BULK	5	PAHZZ	6145-00-160-4775	03203	53909	WIRE,ELECTRICAL		FT	V
	BULK	6	PAHZZ	6145-00-577-3420	03224	53909	WIRE,ELECTRICAL		FT	V
	BULK	7	PAHZZ		EC24UO-9STX	57958	CABLE,SP,ELEC		FT	V
	BULK	8	PAHZZ	6145-00-945-7467	M22759-11-22-0	81349	WIRE,ELECTRICAL		FT	V
	BULK	9	PAHZZ	6145-00-948-9469	M22759-11-24-0	81349	WIRE,ELECTRICAL		FT	V
	BULK	10	PAHZZ	6145-00-948-9479	M22759-11-24-9	81349	WIRE,ELECTRICAL		FT	V
	BULK	11	PAHZZ	6145-00-949-9306	EC24UO-9STW	81349	CABLE,SP,ELEC		FT	V
	BULK	12	PAHZZ	6145-01-012-1664	QQW343TYPE24AWG	81348	WIRE,ELECTRICAL		FT	V
	BULK	13	PAHZZ	6145-01-080-9298	M22759-11-22-9	81349	WIRE,ELECTRICAL		FT	V
	BULK	14	PAHZZ	6145-01-134-8809	5054571-1	57958	CABLE,RF		FT	V
	BULK	15	PAHZZ	6145-01-136-5805	5054463-4	57958	CABLE,SP,ELEC		FT	V
	BULK	16	PAHZZ		MILI22129-22AWG	81349	INSUL SLVG,ELEC		FT	V
	BULK	17	PAHZZ		MILI22129-24AWG	81349	INSUL SLVG,ELEC		FT	V
	BULK	18	PAHZZ		5054581-1	57958	GSKT MATL,CNDCT		IN	V
	BULK	19	PAHZZ		5054630-3	57958	INSUL SLVG,ELEC		FT	
	BULK	20	PAHZZ		5054835-1	57958	SHLD GSKT, ELEK		IN	V
	BULK	21	PAHZZ		5054630-1	57958	INSUL SLVG,ELEC		FT	V
	BULK	22	PAHZZ		MS3367-5-9	96906	STRAP,TIEDOWN		AR	V
	BULK	23	PAHZZ	5970-00-095-1622	M23053-5-105-0	81349	INSUL SLVG,ELEC		IN	V
	BULK	24	PAHZZ	5970-00-815-1295	M23053-5-106-0	81349	INSUL SLVG,ELEC		IN	V
	BULK	25	PAHZZ		M83519/1-2	81349	SPLICE,CNDCT		AR	V
C	BULK	26	PAHZZ		MILT43435TIFB35BLK	81349	TAPE,LACING		AR	V
N	BULK	27	PAHZZ		M17/93-00001	81349	CABLE,RF		FT	V
N	BULK	28	PAHZZ		0213-1-1298-1	57958	INSUL CMPD,ELEC		AR	V

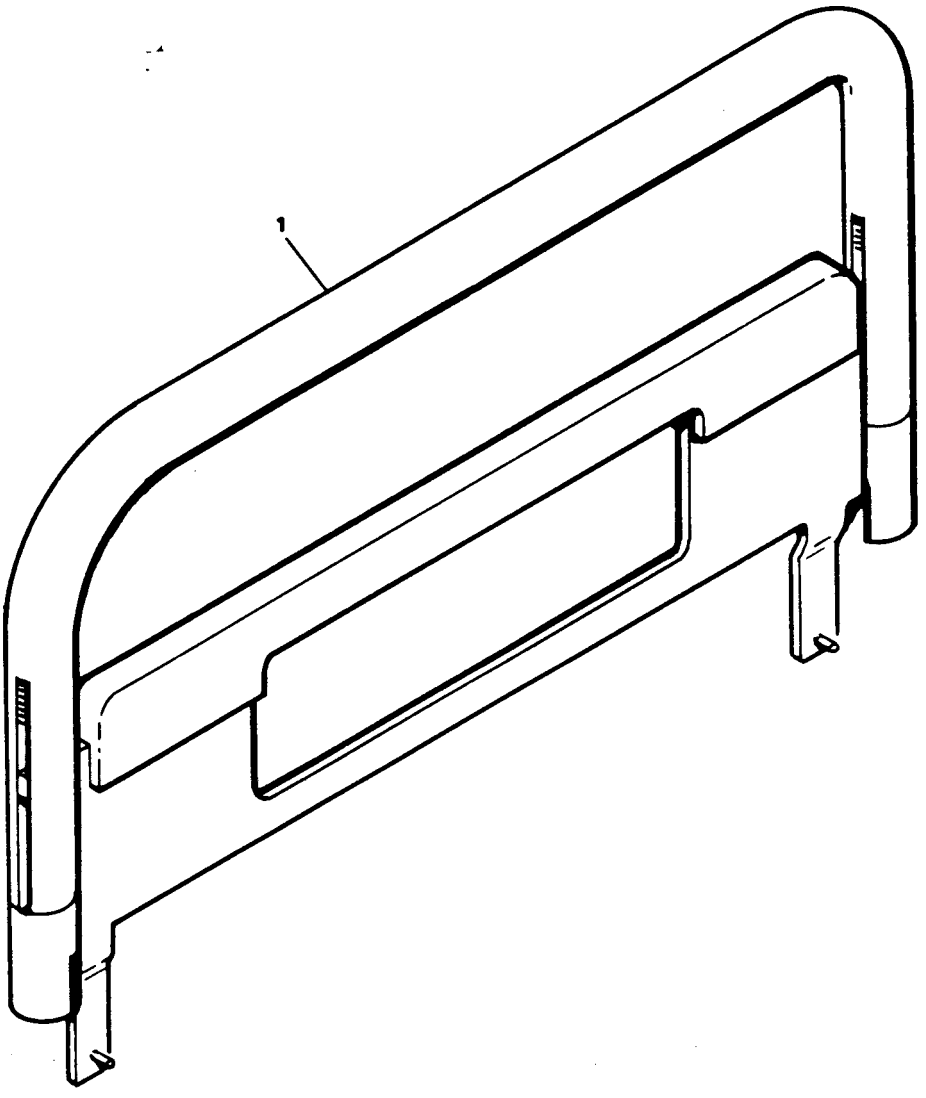


Figure C-10. Special Tools

(1) ILLUSTRATION (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 48 SPECIAL TOOLS			
C-10	1	PEHZZ		5054268-1	57958	EXTRACTOR,ELEC.CARD		EA	1

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
5340-00-001-4838	C-5	4	5935-00-189-2521	C-6	10
6145-00-013-8651	BULK	6	5310-00-209-1366	C-1	99
5961-00-024-0606	C-2	41	5310-00-209-1366	C-5	2
5310-00-043-4708	C-1	154	5310-00-209-1366	C-7	5
5310-00-043-4708	C-3	33	5310-00-209-1366	C-9.1	12
5961-00-048-7106	C-2	13	5930-00-220-5705	C-1	3
5305-00-051-0227	C-1	34	5905-00-223-2610	C-2	27
5305-00-054-5639	C-1	162	5905-00-240-2756	C-3	14
5305-00-054-5639	C-3	32	5905-00-240-7950	C-3	19
5305-00-054-5640	C-1	123	5905-00-240-7979	C-3	10
5305-00-054-5647	C-4	4	6645-00-255-1371	C-1	12
5305-00-054-5648	C-1	43	5961-00-262-5861	C-3	27
5305-00-054-5648	C-7	14	5961-00-311-2860	C-3	26
5305-00-054-5648	C-9.1	19	5950-00-328-2588	C-2	17
5305-00-054-5649	C-1	158	5905-00-413-1029	C-3	16
5305-00-054-5649	C-2	44	5905-00-419-2822	C-2	23
5305-00-054-5650	C-1	168	5905-00-419-2823	C-2	28
5305-00-054-5651	C-1	117	5905-00-419-2823	C-3	15
5305-00-054-5651	C-4	9	5905-00-419-3949	C-2	22
5305-00-054-6650	C-5	1	5905-00-436-8557	C-2	24
5305-00-054-6652	C-9.1	10	5905-00-438-0447	C-2	31
5305-00-054-6653	C-1	114	5905-00-438-0505	C-2	26
5305-00-054-6654	C-7	6	5905-00-438-0506	C-2	29
5305-00-054-6654	C-9.1	9	5910-00-443-8984	C-2	7
5305-00-054-6655	C-1	97	5925-00-444-0595	C-1	103
5305-00-054-6655	C-7	15	5935-00-448-5654	C-6	9
5305-00-054-6669	C-1	172	5935-00-448-9223	C-6	11
5305-00-054-6670	C-1	46	5935-00-448-9223	C-7	8
5305-00-054-6672	C-1	47	5905-00-454-2868	C-3	9
5305-00-054-6675	C-1	32	5905-00-458-9263	C-2	33
5940-00-056-8696	C-6	15	5999-00-459-5733	C-6	20
5310-00-057-0573	C-2	47	5305-00-470-8765	C-1	131
5310-00-058-3599	C-2	45	5925-00-472-0335	C-1	107
5310-00-058-3599	C-4	7	5935-00-481-4095	C-4	6
5305-00-059-3659	C-1	143	5905-00-481-7950	C-3	13
5305-00-066-7325	C-1	13	5999-00-486-5991	C-6	3
5305-00-066-7327	C-1	127	5905-00-498-5684	C-3	17
5305-00-066-7328	C-1	132	5950-00-503-8700	C-2	18
5305-00-076-0213	C-1	55	5935-00-503-9112	C-6	13
5970-00-088-2975	BULK	1	5910-00-513-5385	C-2	3
5305-00-088-9665	C-1	113	5340-00-530-6833	C-1	50
5305-00-088-9671	C-1	23	5940-00-533-4822	C-1	110
			5935-00-534-8004	C-6	4
5970-00-095-1622	BULK	23	5910-00-546-4209	C-9.2	1
5910-00-098-9242	C-9.2	2	5365-00-554-8486	C-1	5
4920-00-110-5317	C-1	37	6145-00-577-3420	BULK	16
5905-00-111-1684	C-2	35	5940-00-577-3807	C-6	18
5975-00-111-3208	C-6	19	5910-00-581-5116	C-1	112
5905-00-111-4852	C-3	8	5950-00-583-8894	C-2	15
5320-00-117-6815	C-1	42	5950-00-583-8894	C-9.2	4
5320-00-117-6939	C-1	30	5310-00-595-6211	C-1	14
5320-00-119-6754	C-1	126	5310-00-595-6211	C-4	2
5935-00-119-8995	C-6	2	5310-00-595-6211	C-7	12
5360-00-124-2095	C-1	134	5310-00-595-6211	C-9.1	14
5999-00-137-5066	C-6	1	5310-00-595-6761	C-1	120
6240-00-143-6558	C-1	10	5310-00-595-6772	C-1	54
6240-00-143-6558	C-5	10	5340-00-597-3302	C-1	40
6145-00-160-4775	BULK	7	5910-00-600-6889	C-2	4
5940-00-161-0449	C-1	111	5910-00-546-4209	C-9	1
5910-00-165-2606	C-2	9	5950-00-570-4719	C-8	2
5910-00-175-4241	C-2	6			
5325-00-178-8658	C-1	26			
5950-01-046-0387	C-8	4			
5910-00-010-8534	C-8	1			
5950-01-022-0501	C-9	2			

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
5910-00-600-6889	C-3	1	6145-00-948-9479	BULK	11
5962-00-615-5017	C-2	1	5961-00-949-1440	C-3	7
5310-00-616-8660	C-1	101	5310-00-949-6139	C-1	27
5975-00-642-7261	C-7	19	6145-00-949-9306	BULK	17
5975-00-642-7261	C-9.1	7			
5905-00-721-0011	C-3	11	5305-00-958-2918	C-1	2
			5310-00-959-6622	C-1	125
5310-00-722-5998	C-1	108	5975-00-962-9882	C-7	20
5310-00-722-5998	C-7	3	5975-00-962-9882	C-9.1	8
5310-00-722-5998	C-9.1	11	5935-00-976-5425	C-6	5
5940-00-740-7933	C-2	46	5310-00-982-4999	C-4	11
5940-00-740-7933	C-4	10	5310-00-982-6814	C-1	49
5905-00-758-2917	C-2	32	5340-00-984-8854	C-1	39
5905-00-758-2918	C-3	18	5340-00-986-2929	C-1	58
5910-00-763-7454	C-2	8	5340-00-989-3032	C-1	48
5340-00-770-3841	C-1	167	5340-00-989-9224	C-1	173
5310-00-771-7396	C-1	128			
5310-00-773-7624	C-1	96	5305-00-995-1886	C-1	87
5310-00-773-7624	C-5	3	5961-01-PAC-9833	C-2	12
6130-00-785-1027	C-1	102	5961-01-PAC-9833	C-3	2
5325-00-788-5635	C-1	29	5305-01-011-2188	C-1	131
5970-00-812-2969	BULK	2	6145-01-012-1664	BULK	12
5970-00-812-2974	BULK	3	5961-01-012-8200	C-3	28
5310-00-812-4294	C-3	35	5950-01-013-0788	C-2	19
5940-00-813-0698	C-6	16	5340-01-014-0696	C-1	169
5940-00-813-0698	C-7	4	5910-01-017-6162	C-2	10
5940-00-813-0698	C-9.1	13	5962-01-019-6176	C-2	38
5970-00-815-1295	BULK	24	5910-01-033-5234	C-2	5
5950-00-832-4881	C-2	16	5950-01-037-6903	C-9.2	3
5310-00-834-1170	C-1	116	5961-01-038-6918	C-2	11
			5961-01-038-6918	C-3	3
5340-00-843-0003	C-1	20	5905-01-047-1529	C-2	30
5940-00-857-3414	C-6	17	5905-01-047-1530	C-2	34
5340-00-870-5350	C-1	38	5905-01-047-1530	C-3	12
5310-00-880-5978	C-1	31	5905-01-047-1531	C-2	21
5940-00-918-8068	C-6	7	5962-01-048-7767	C-2	37
5905-00-926-8706	C-2	25	5935-01-052-9436	C-3	36
5310-00-928-2690	C-1	121	5340-01-054-4934	C-1	41
5310-00-928-2690	C-3	34	9320-01-056-0957	C-1	18
5310-00-929-6395	C-1	100	5950-01-067-1012	C-2	36
5310-00-929-6395	C-7	2	5310-01-067-9589	C-1	45
5310-00-929-6395	C-9.1	16	5935-01-069-6794	C-6	6
5999-00-931-6238	C-2	43	5962-01-073-9544	C-2	2
5310-00-933-8118	C-1	15	5935-01-078-0311	C-1	153
5310-00-933-8118	C-2	48	5325-01-078-5181	C-4	8
5310-00-933-8118	C-4	3	5340-01-079-8324	C-1	133
5310-00-933-8118	C-7	13	6145-01-080-9298	BULK	13
5310-00-933-8118	C-9.1	15	5935-01-084-0795	C-3	5
5310-00-933-8120	C-1	56	5935-01-092-3459	C-6	12
5310-00-934-9748	C-1	16	5935-01-092-3459	C-9.1	4
5310-00-934-9748	C-2	49	5935-01-092-9425	C-1	148
5310-00-934-9759	C-1	140	5975-01-093-0341	C-1	109
5310-00-934-9761	C-7	1	5962-01-093-2695	C-2	39
5310-00-934-9761	C-9.1	17	5307-01-115-5404	C-1	86
5310-00-934-9765	C-1	160	5961-01-121-7752	C-3	4
5310-00-938-2013	C-1	122	5915-01-131-0627	C-1	95
5940-00-939-7825	C-6	14	5925-01-131-7584	C-1	105
5950-00-943-9174	C-2	20	6210-01-131-9563	C-5	5
6145-00-945-7467	BULK	9	6210-01-131-9564	C-5	6
6145-00-948-9469	BULK	10			

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO	ITEM NO	STOCK NUMBER	FIGURE NO	ITEM NO
5930-01-132-4476	C-1	11			
4130-01-132-4478	C-1	33			
5970-01-132-5616	C-1	92			
5930-01-132-8670	C-1	7			
5970-01-133-1578	C-1	85			
5970-01-133-7786	C-1	145			
4130-01-133-8987	C-1	19			
4140-01-133-9010	C-1	141			
5920-01-134-5445	C-3	20			
6145-01-134-8809	BULK	14			
5961-01-135-1532	C-3	25			
5961-01-135-3651	C-3	30			
5895-01-135-8457	C-1	156			
5920-01-136-4708	C-3	21			
5920-01-136-4709	C-3	24			
6145-01-136-5805	BULK	15			
5920-01-137-1461	C-3	22			
5920-01-137-1462	C-3	23			
5999-01-137-1679	C-1	57			
5915-01-138-0653	C-4	12			
5999-01-138-8727	C-1	115			
5305-01-139-0852	C-1	17			
6210-01-140-5660	C-1	8			
5955-01-142-9793	C-1	135			
6130-01-144-8638	C-1	91			
5961-01-146-3018	C-3	29			
5310-01-274-5216	C-1	22			

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER	FSCM	FIG NO	ITEM NO
C5075831-1	57958	C-1	88
C5075835-1	57958	C-7	7
C5075836-1	57958	C-7	16
C5075836	57958	C-9.1	2
C5075837-1	57958	C-7	17
C5075839-1	57958	C-7	10
C5075841-1	57958	C-8	1
C5075843-1	57958	C-7	9
C5075845-1	57958	C-9	1
C5075847-1	57958	C-1	159
C5075849-1	57958	C-1	53
C5077436-1	57958	C-1	161
C5077577-1	57958	C-1	51
C5146983-1	57958	C-1	102.1
C5146984	57958	C-9.1	1
C5146986	57958	C-9.1	3
C5146991	57958	C-9.1	5
C5147088	57958	C-1	124
C5147100-1	57958	C-1	106
C5147101-1	57958	C-1	104
EC24UO-9STW	81349	BULK	17
EC24UO-9STX	57958	BULK	7
JAN1N4100	81349	C-2	41
JAN1N4109	81349	C-3	27
JAN1N4113	81349	C-3	30
JAN1N4114	81349	C-3	28
JAN1N4148-1	81349	C-2	11
JAN1N148-1	81349	C-3	3
JAN1N4150-1	81349	C-2	12
JAN1N4150-1	81349	C-3	2
JAN1N4619	81349	C-3	26
JAN1N4978	81349	C-3	29
JAN1N5712	81349	C-2	13
JAN2N2905A	81349	C-3	7
MILI22129-22AWG	81349	BULK	18
MILI22129-24AWG	81349	BULK	19
MILI43435T1FB35BLK	81349	BULK	26
MS122078	96906	C-1	20
MS124655	96906	C-1	58
MS124695	96906	C-1	40
MS15795-802	96906	C-1	120
MS15795-803	96906	C-1	14
MS15795-803	96906	C-4	2
MS15795-803	96906	C-7	12
MS15795-803	96906	C-9.1	14
MS15795-805	96906	C-1	108
MS15795-805	96906	C-7	3
MS15795-805	96906	C-9.1	11
MS15795-807	96906	C-1	31
MS15795-808	96906	C-1	54
MS20426AD3-5	96906	C-1	30
MS2047OAD2-3	96906	C-1	126
MS2047OAD3-4	96906	C-1	42
MS21044C04	96906	C-4	11
MS21044C8	96906	C-1	49
MS21076L06	96906	C-1	128
MS24585C143	96906	C-1	134
MS24693C26	96906	C-1	2
MS24693C27	96906	C-1	132
MS24693C272	96906	C-1	34
MS24693C28	96906	C-1	127
MS24693C29	96906	C-1	113
MS24693C5	96906	C-1	13
MS24693C52	96906	C-1	23
MS25036-101	96906	C-6	16
MS25036-101	96906	C-7	4
MS25036-101	96906	C-9.1	13
MS25036-145	96906	C-6	18
MS25281R10	96906	C-1	48
MS25281R6	96906	C-1	173
MS25281R8	96906	C-1	169
MS25281R9	96906	C-1	50
MS3338-6839	96906	C-1	10
MS3338-6839	96906	C-5	10
MS3367-5-9	96906	C-6	19
MS3367-5-9	96906	BULK	22
MS3416-18EN	96906	C-6	10
MS3416-20EN	96906	C-6	13
MS3474L12-3P	96906	C-4	6
MS3474L18-32P	96906	C-6	9
MS3474L18-32S	96906	C-6	11
MS3474L18-32S	96906	C-7	8
MS3474L20-41S	96906	C-6	12
MS3474L20-41S	96906	C-9.1	4
MS35335-57	96906	C-2	45
MS35335-57	96906	C-4	7
MS35335-57	96906	C-1	99
MS35335-58	96906	C-5	2
MS35335-58	96906	C-7	5
MS35335-58	96906	C-9.1	12
MS35338-134	96906	C-1	121
MS35338-134	96906	C-3	34
MS35338-135	96906	C-1	15
MS35338-135	96906	C-2	48
MS35338-135	96906	C-4	3
MS35338-135	96906	C-7	13
MS35338-135	96906	C-9.1	15
MS35338-136	96906	C-1	100
MS35338-136	96906	C-7	2
MS35338-136	96906	C-9.1	16
MS35338-137	96906	C-1	45
MS35338-138	96906	C-1	56
MS35489-35	96906	C-4	8
MS35649-224	96906	C-1	122
MS35649-244	96906	C-1	16
MS35649-244	96906	C-2	49
MS35649-264	96906	C-7	1
MS35649-264	96906	C-9.1	17
MS35649-284	96906	C-1	140
MS35650-304	96906	C-1	160
MS35822-9A	96906	C-1	41
MS39087-1	96906	C-1	39
MS51029-101	96906	C-1	131
MS51859-3	96906	C-1	174
MS51957-14	96906	C-4	4
MS51957-13	96906	C-1	43
MS51957-14	96906	C-7	14
MS51957-14	96906	C-9.1	19
MS51957-15	96906	C-1	158
MS51957-15	96906	C-2	44
MS51957-16	96906	C-1	168
MS51957-17	96906	C-1	117
MS51957-17	96906	C-4	9
MS51957-26	96906	C-5	1
MS51957-28	96906	C-9.1	10
MS51957-29	96906	C-1	114
MS51957-30	96906	C-7	6
MS51957-30	96906	C-9.1	9
MS51957-31	96906	C-1	97
MS51957-31	96906	C-7	15
MS51957-44	96906	C-1	172
MS51957-45	96906	C-1	46

PART NUMBER	FSCM	FIG NO	ITEM NO
MS51957-47	96906	C-1	47
MS51957-5	96906	C-1	162
MS51957-5	96906	C-3	32
MS51957-50	96906	C-1	32
MS51957-6	96906	C-1	123
MS51958-63	96906	C-1	143
MS75087-12	96906	C-8	16
MS75088-1	96906	C-2	17
MS75088-3	96906	C-8	8
MS75088-5	96906	C-2	18
MS75088-7	96906	C-2	20
MS75088-8	96906	C-8	4
MS75089-7	96906	C-2	15
MS75089-7	96906	C-9.2	4
MS75089-15	96906	C-9	12
MS75089-15	96906	C-9.2	3
MS75089-19	96906	C-2	19
M17/93-00001	81349	BULK	27
M21097-13-06	81349	C-6	2
M21097-16-03	81349	C-6	3
M22759-11-16-9	81349	BULK	6
M22759-11-22-0	81349	BULK	9
M22759-11-22-9	81349	BULK	13
M22759-11-24-0	81349	BULK	10
M22759-11-24-9	81349	BULK	11
M22885-83-200	81349	C-1	9
M23053-5-103-0	81349	BULK	3
M23053-5-104-0	81349	BULK	2
M23053-5-104-9	81349	BULK	1
M23053-5-105-0	81349	BULK	23
M23053-5-106-0	81349	BULK	24
M23269-10-3011	81349	C-2	6
M23269-10-3085	81349	C-2	10
M23269-10-3106	81349	C-2	8
M23269-10-3118	81349	C-2	9
M23269-10-3142	81349	C-2	7
M24236-1CKJJK	81349	C-1	170
M24308-2-26	81349	C-6	4
M24308-2-4	81349	C-6	5
M24308-24-28	81349	C-3	5
M24308-25-1	81349	C-6	6
M24308-26-1	81349	C-3	36
M38510-10304BGX	81349	C-2	37
M39014-01-1307	81349	C-8	24
M39014-01-1317	81349	C-9	24
M39014-01-1317	81349	C-9.2	1
M39014-01-1526	81349	C-9.2	2
M39014-02-1218	81349	C-2	3
M39014-02-1230	81349	C-2	4
M39014-02-1230	81349	C-3	1
M39014-02-1236	81349	C-2	5
M39016/41-004L	81349	C-2	14
M39016/41-004L	81349	C-3	6
M39029-1-16-20	81349	C-6	1
M81714-5-6	81349	C-1	22
M7793/6-002	96906	C-1	12
M81714-2AA1	81349	C-1	111
M81714-2AB3	81349	C-1	110
M81714-5-6	81349	C-1	109
M83519/1-2	81349	BULK	25
NAS1189E02P6	80205	C-1	151
NAS1351C3-10	80205	C-1	55
NAS1351C3-8	80205	C-1	87
NAS1746-2	80205	C-6	17
NAS1746-3	80205	C-6	15
NAS620C2	80205	C-1	154
NAS620C2	80205	C-3	33
NAS620C4	80205	C-2	47
NAS620C6	80205	C-1	96
NAS620C6	80205	C-5	3
NAS671C2	80205	C-3	35
NAS671C6	80205	C-1	101
QOW343TYPES24AWG	81348	BULK	12
RCR07G155JS	81349	C-2	35
RCR20GR7JS	81349	C-3	8
RCR20G3R3JS	81349	C-3	9
RLR07C1000GR	81349	C-2	33
RLR07C1002GR	81349	C-2	21
RLR07C1001GR	81349	C-2	30
RLR07C1203GR	81349	C-2	24
RLR07C1501GR	81349	C-3	19
RLR07C2001GR	81349	C-2	23
RLR07C2201GR	81349	C-2	34
RLR07C2201GR	81349	C-3	12
RLR07C3601GR	81349	C-3	13
RLR07C3900GR	81349	C-3	16
RLR07C4300GR	81349	C-3	11
RLR07C47R0GR	81349	C-2	31
RLR07C4700GR	81349	C-3	10
RLR07C4701GR	81349	C-2	26
RLR07C51R0GR	81349	C-2	27
RLR07C5100GR	81349	C-2	32
RLR07C5101GR	81349	C-2	29
RLR07C6201GR	81349	C-3	18
RLR07C7501GR	81349	C-2	28
RLR07C7501GR	81349	C-3	15
RLR07C8200GR	81349	C-3	17
RLR07C8201GR	81349	C-2	22
RLR20C1000GR	81349	C-2	25
RLR20C3301GR	81349	C-3	14
SE26XF02	81349	C-6	7
SE26XF03	81349	C-6	14
0213-1-1056-1	57958	C-3	4
0213-1-1060-1	57958	C-2	16
0213-1-1068-1	57958	C-1	4
0213-1-1074-1	57958	C-1	38
0213-1-1167-1	57958	C-2	46
0213-1-1167-1	57958	C-4	10
0213-1-1183-2	57958	C-1	18
0213-1-1295-2	57958	C-2	38
0213-1-1298-1	57958	BULK	28
0213-2-1196-20	57958	C-1	146
0213-2-1196-21	57958	C-1	102
0213-2-1196-22	57958	C-1	91
0213-2-1196-23	57958	C-1	94
0213-2-1196-24	57958	C-1	84
03203	53909	BULK	7
03224	53909	BULK	16
5035870-1	57958	C-1	37
5051425-8	57958	C-1	6
5051644-1	57958	C-1	21
5051645-1	57958	C-1	93

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER	FSCM	FIG NO	ITEM NO
5051646-1	57958	C-1	44
5051647-1	57958	C-1	171
5051648-1	57958	C-1	155
5051648-2	57958	C-1	165
5051648-3	57958	C-1	163
5051648-4	57958	C-1	164
5051649-1	57958	C-1	152
5051664-1	57958	C-1	98
5051780-2	57958	C-1	95
5051781-1	57958	C-4	1
5051782-1	57958	C-4	5
5051824-1	57958	C-1	11
5051841-1	57958	C-1	115
5051843-1	57958	C-3	31
5051909-1	57958	C-1	138
5051911-1	57958	C-2	42
5051991-1	57958	C-5	9
5052281-1	57958	C-1	119
5052282-1	57958	C-1	136
5052283-1	57958	C-1	35
5052284-1	57958	C-1	28
5052287-1	57958	C-1	166
5052288-1	57958	C-1	149
5052289-1	57958	C-1	150
5052291-1	57958	C-1	118
5052292-1	57958	C-1	83
5052293-1	57958	C-1	75
5052293-2	57958	C-1	76
5052293-3	57958	C-1	77
5052293-4	57958	C-1	78
5052294-1	57958	C-1	79
5052294-2	57958	C-1	80
5052294-3	57958	C-1	81
5052294-4	57958	C-1	82
5052295-1	57958	C-1	71
5052295-2	57958	C-1	72
5052295-3	57958	C-1	73
5052295-4	57958	C-1	74
5052299-2	57958	C-1	1
5053016-1	57958	C-1	59
5053016-10	57958	C-1	68
5053016-11	57958	C-1	69
5053016-12	57958	C-1	70
5053016-2	57958	C-1	60
5053016-3	57958	C-1	61
5053016-4	57958	C-1	62
5053016-5	57958	C-1	63
5053016-6	57958	C-1	64
5053016-7	57958	C-1	65
5053016-8	57958	C-1	66
5053016-9	57958	C-1	67
5053019-1	57958	C-1	52
5053038-2	57958	C-5	7
5054437-3	57958	C-1	116
5054463-4	57958	BULK	15
5054491-1	57958	C-1	141
5054519-53	57958	C-7	18
5054519	57958	C-9.1	6
5054520-3	57958	C-7	19
5054520-3	57958	C-9.1	7
5054521-2	57958	C-7	20
5054521-2	57958	C-9.1	8
5054567-1	57958	C-1	153
5054568-1	57958	C-6	20
5054569-2	57958	C-1	17
5054571-1	57958	BULK	14
5054578-1	57958	C-1	167
5054580-1	57958	C-1	156
5054581-1	57958	BULK	5
5054581-1	57958	C-1	57
5054590-1	57958	C-1	112
5054630-1	57958	BULK	21
5054630-3	57958	BULK	20
5054676-2	57958	C-1	125
5054695-1	57958	C-2	36
5054696-1	57958	C-2	43
5054729-3	57958	C-1	89
5054729-7	57958	C-9.1	18
5054729-4	57958	C-1	86
5054763-1	57958	C-1	19
5054764-1	57958	C-1	33
5054784-1	57958	C-1	90
5054784-3	57958	C-6	8
5054784-4	57958	C-6	21
5054802-2	57958	C-4	12
5054818-10	57958	C-3	22
5054818-11	57958	C-3	23
5054818-2	57958	C-3	20
5054818-5	57958	C-3	21
5054818-7	57958	C-3	24
5054821-5	57958	C-1	137
5054821-6	57958	C-1	139
5054830-6	57958	C-1	7
5054831-1	57958	C-1	129
5054832-1	57958	C-1	3
5054833-1	57958	C-1	24
5054833-2	57958	C-1	25
5054835-1	57958	BULK	4
5054837-1	57958	C-1	29
5054837-10	57958	C-1	26
5054837-2	57958	C-1	27
5054860-4	57958	C-1	107
5054860-6	57958	C-1	105
5054860-7	57958	C-1	103
5054868-1	57958	C-1	148
5054884-1	57958	C-5	4
5054884-1	57958	C-1	130
5054884-20	57958	C-1	142

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER	FSCM	FIG NO	ITEM NO	PART NUMBER	FSCM	FIG NO	ITEM NO
5054887-1	57958	C-1	133				
5054888-2	57958	C-5	8				
5054892-1	57958	C-1	8				
5054907-32	57958	C-5	5				
5054907-33	57958	C-5	6				
5054919-1	57958	C-1	92				
5054919-3	57958	C-1	145				
5054919-4	57958	C-1	85				
5054967-1	57958	C-1	135				
5068007-6	81349	C-1	157				
5068007-7	81349	C-1	147				
5068033-1	57958	C-2	1				
5068043-1	57958	C-2	39				
5068043-2	57958	C-2	40				
5068122-1	57958	C-3	25				
7801301GX	14933	C-2	2				
9743-SS-0440	57958	C7	11				

APPENDIX D

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

D-1. **SCOPE.** This appendix lists expendable supplies and materials you will need to operate and maintain the Receiver Set. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

D-1. **EXPLANATION F COLUMNS.**

a. Column(1) - Item number. This column is a numbered listing of the items contained in this appendix.

b. Column(2) - Level. This column identifies the lowest level of maintenance that requires the listed item.

C - Operator/Crew
0 - Organizational Maintenance
F - Direct Support Maintenance
H - General Support Maintenance

c. Column(3) - National Stock Number. This is the National stock number assigned to the item; use it to request or requisition the item.

d. Column(4) - Description. Indicates the Federal item name and, if required, a description to identify the item.

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

SECTION II. EXPENDABLE SUPPLIES AND MATERIALS

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	0	8020-00-257-0382	BRUSH	EA
2	0	8305-00-222-2423	LINT-FREE CLOTH	EA
3	0	6850-00-105-3084	CLEANING COMPOUND,FREON-TF	OZ
4	0	8010-00-087-0103	PAINT FINISHING (COLOR 24410)	QT

GLOSSARY

Section I. ABBREVIATIONS

ATE . . . . . Automatic Test Equipment
ATESP . . . . . Automatic Test Equipment Software Program
BITE . . . . . Built In Test Equipment
EIR . . . . . Equipment Improvement Recommendation
ID . . . . . Interface Adapter
LO . . . . . Local Oscillator
MAC . . . . . Maintenance Allocation Chart
PIU . . . . . Programmable Interface Unit
PMCS . . . . . Preventive Maintenance Checks and Services
RC . . . . . Receiver Control
RPSTL . . . . . Repair Parts Special Tools List
TPT . . . . . Test Program Tape
TTL . . . . . Transistor - Transistor Logic
UUT . . . . . Unit Under Test
VSWR . . . . . Voltage Standing Wave Ratio

Section II. DEFINITIONS

Analog	A quantity which corresponds value for value to an otherwise unrelated quantity.
Comparator	A device whose output signal depends on the result of comparing two or more input signals.
Differential Signal	A signal for transfer on two lines where one line carries the complement of the other.
Indicator	A lamp or other device used to convey information.
opto-Isolator	A coupling device in which the coupling medium is light.

INDEX

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By Order of the Secretary of the Army:

JOHN A. WICKHAM, JR.
General, United States Army
Chief of Staff

Official:

DONALD J. DELANDRO
Brigadier General, United States Army
The Adjutant General

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Stateside Army Depot
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Stateside, NJ 07703

DATE SENT
10 July 1979

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM32- 5840-340-12	23 Jan 74	Radar Set AN/PSC-76

BE EXACT . PIN-POINT WHERE IT IS

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
2-25	2-28		
3-10	3-3		3-1
5-6	5-8		
		F03	

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°.

REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and accelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation

Item 5, Function column. Change "2 db" to "3db."

REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3db (500 watts) adjustment to light the TRANS POWER FAULT indicator.

Add new step f.1 to read, "Replace cover plate removed in step e.1, above."

REASON: To replace the cover plate.

Zone C 3. On J1-2, change "+24 VDC to "+5 VDC."

REASON: This is the output line of the 5vdc power supply. +24 VDC is the input voltage.

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
SSG I. M. DeSpiritof 999-1776

SIGN HERE:
SSG I. M. DeSpiritof

DA FORM 1 JUL 79 2028-2

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TM 32-5865-061-24&P	*28 February 1985*	Receiver Set R-2197/MLQ-34

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TM 32-5865-061-24&P	28 February 1985	Reciever Set R-2197/MILQ-34

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PAGE NO	PARA-GRAPH	FIGURE NO.	TABLE NO.

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

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TEAR ALONG PERFORATED LINE

NOTES: UNLESS OTHERWISE SPECIFIED:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN: FOR COMPLETE DESIGNATION PREFIX WITH UNIT NO AND ASSEMBLY DESIGNATIONS
2. P/O INDICATES PART OF
3. UNUSED CONNECTOR PINS NOT SHOWN
4. ▭ INDICATES EQUIPMENT MARKING
5. ▪ PRECEDING LETTER INDICATES LOWER CASE
6. A11 INSTALLED ON SERIAL NOS. 143 AND ABOVE

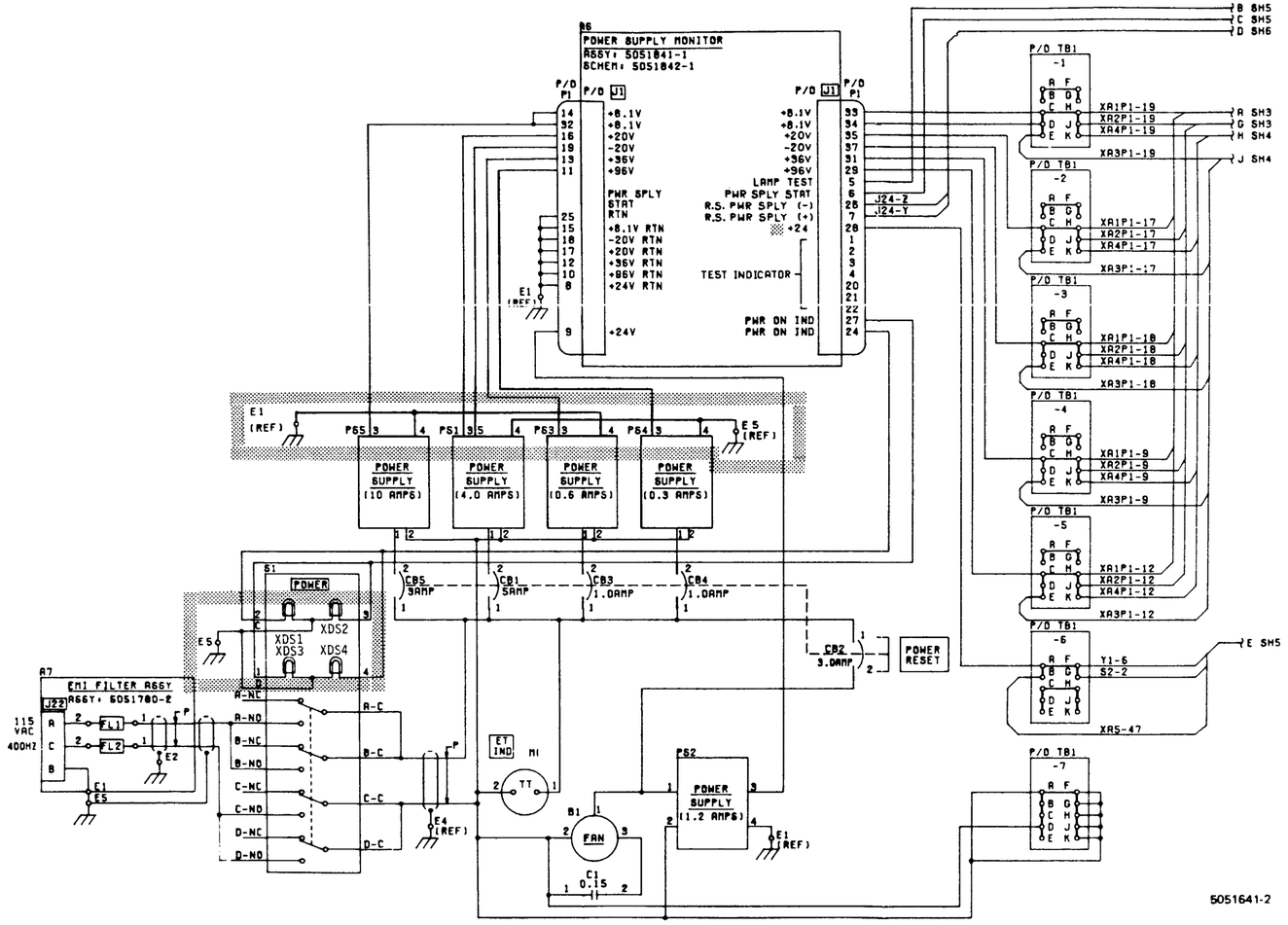
NOTE 6

HIGHEST REFERENCE DESIGNATIONS			
A11	CR5	Y1	M1
C1	S3	P55	T01
CP1	AR4	AT5	P1
B1	W35	XDS4	DS4
REFERENCE DESIGNATIONS NOT USED			
W13-16,21-24			

-1 AS SHOWN

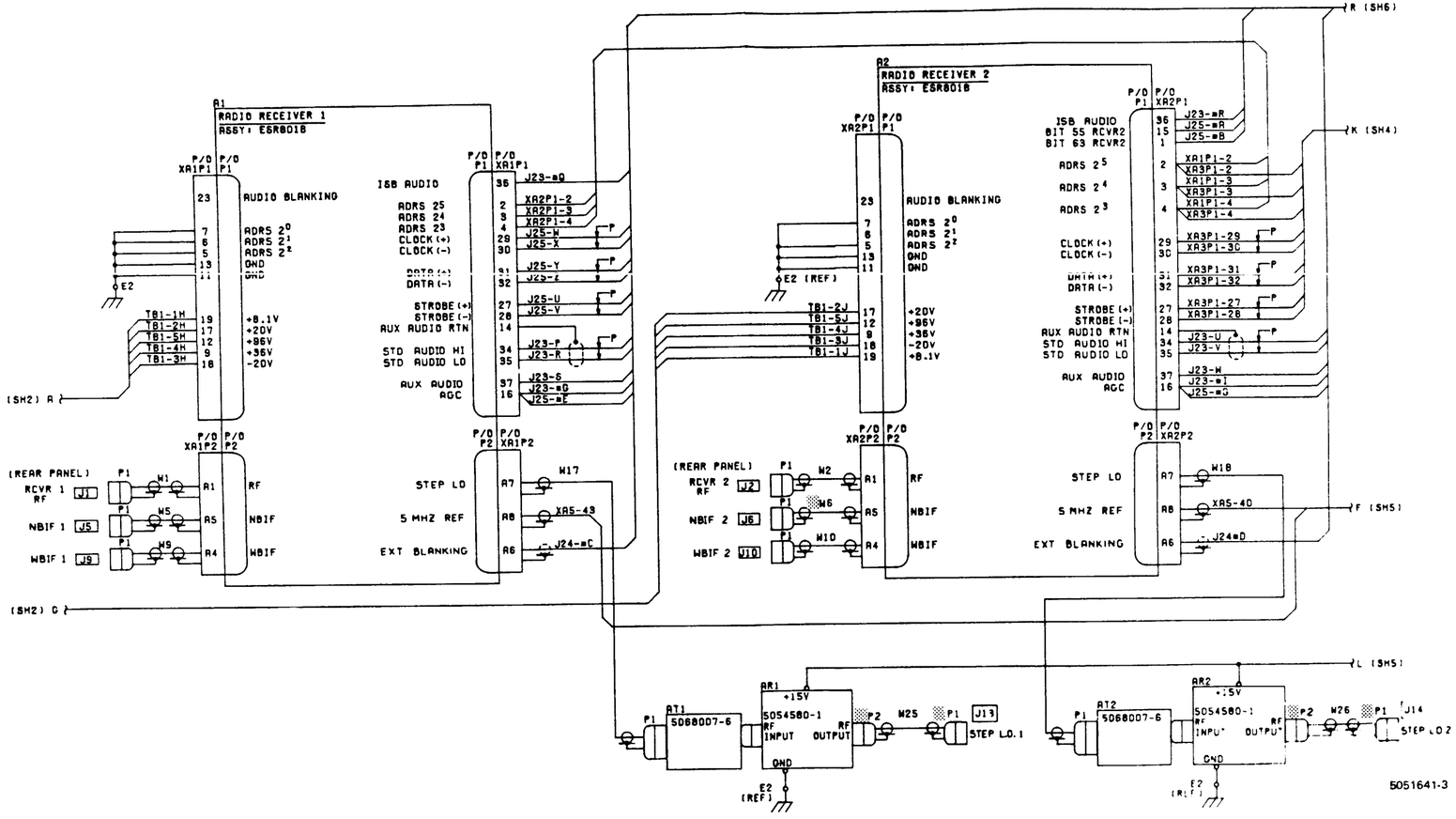
5051641-1

FO-1. Receiver Set, Schematic Diagram (Sheet 1 of 7)

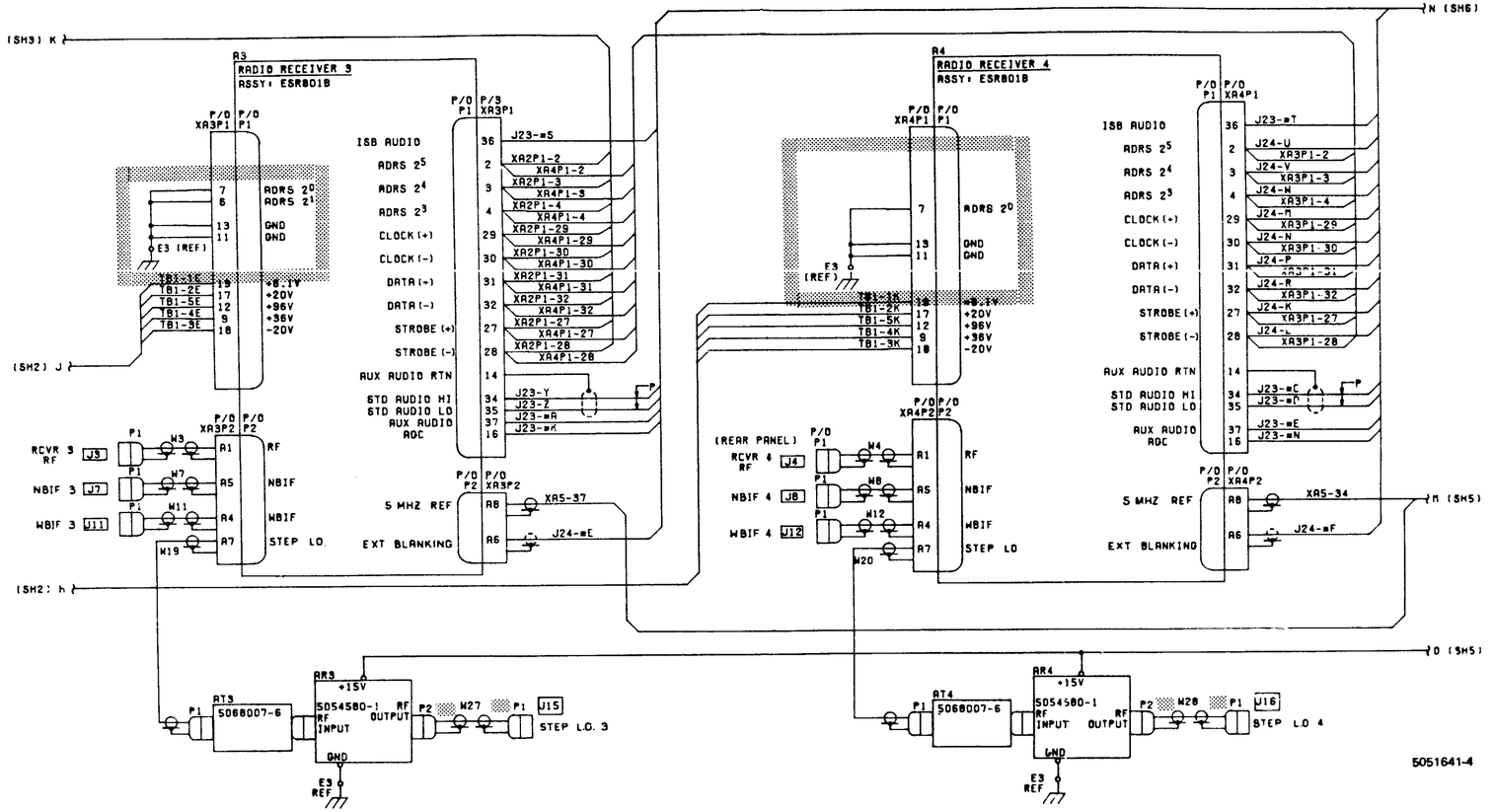


FO-1. Receiver Set, Schematic Diagram (Sheet 2 of 7)

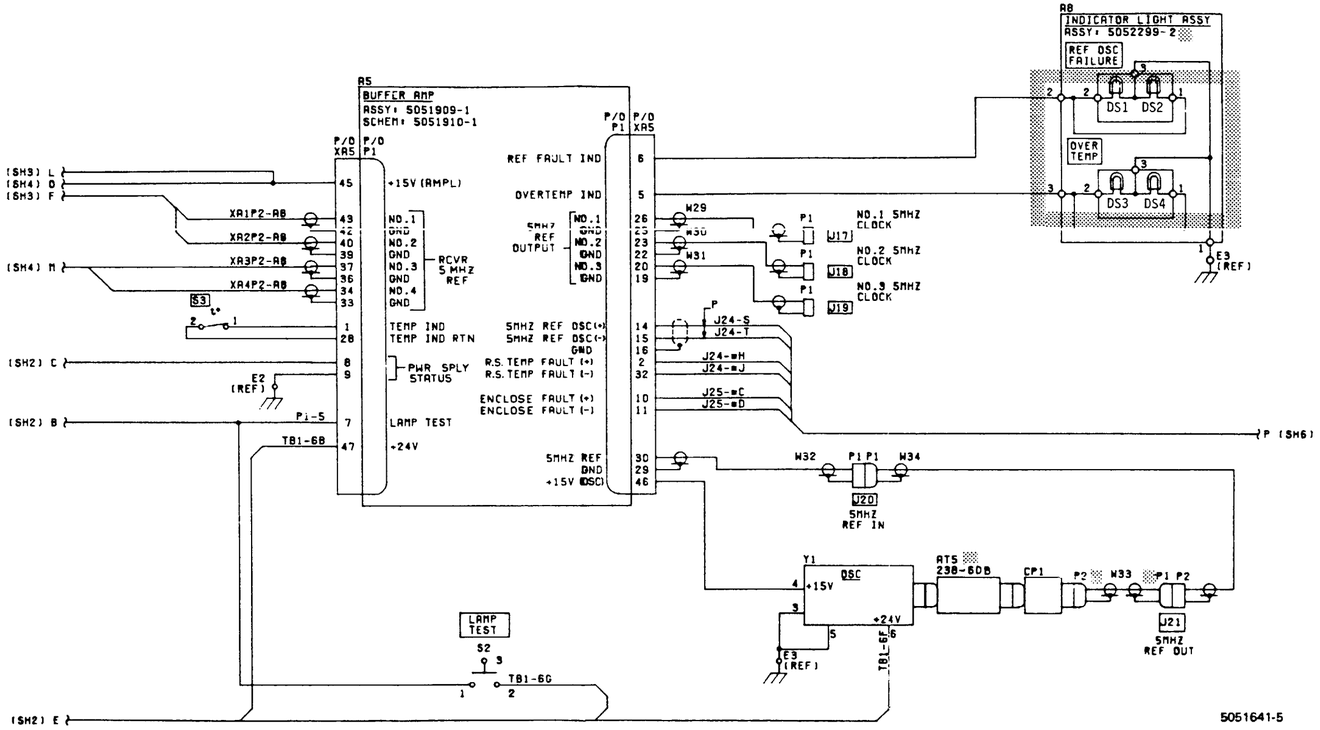
Change 1



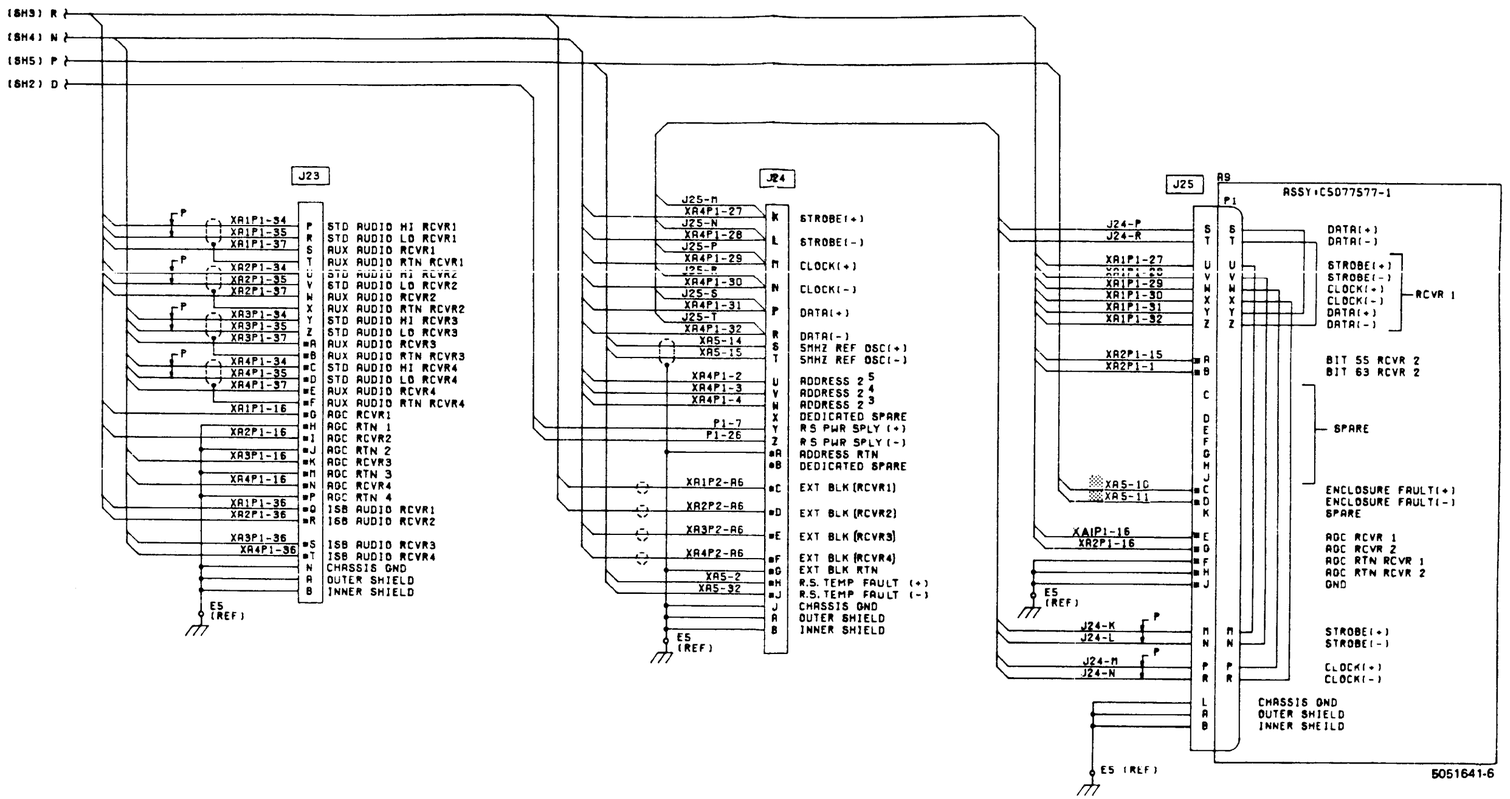
FO-1. Receiver Set, Schematic Diagram (Sheet 3 of 7)



FO-1. Receiver Set, Schematic Diagram (Sheet 4 of 7)

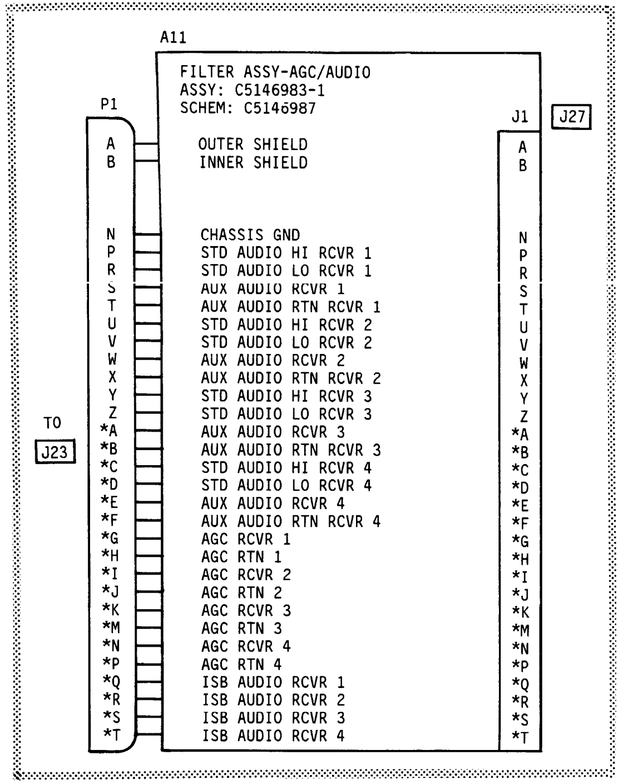


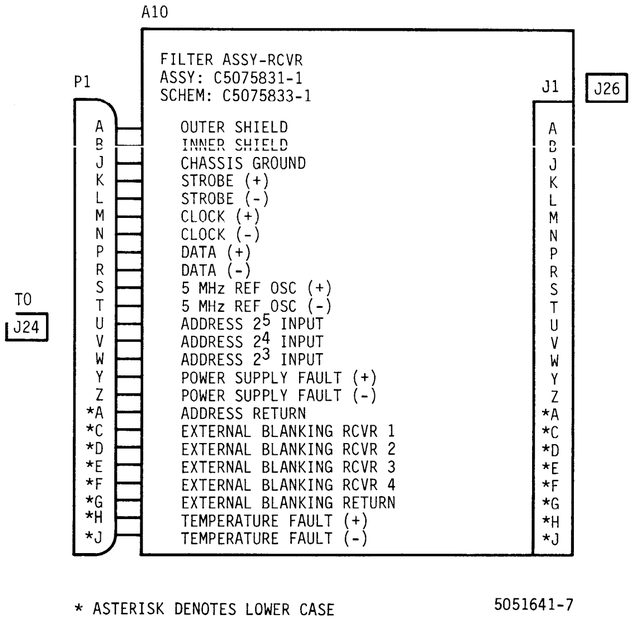
FO-1. Receiver Set, Schematic Diagram (Sheet 5 of 7)



FO-1. Receiver Set, Schematic Diagram (Sheet 6 of 7)

Change 1





* ASTERISK DENOTES LOWER CASE

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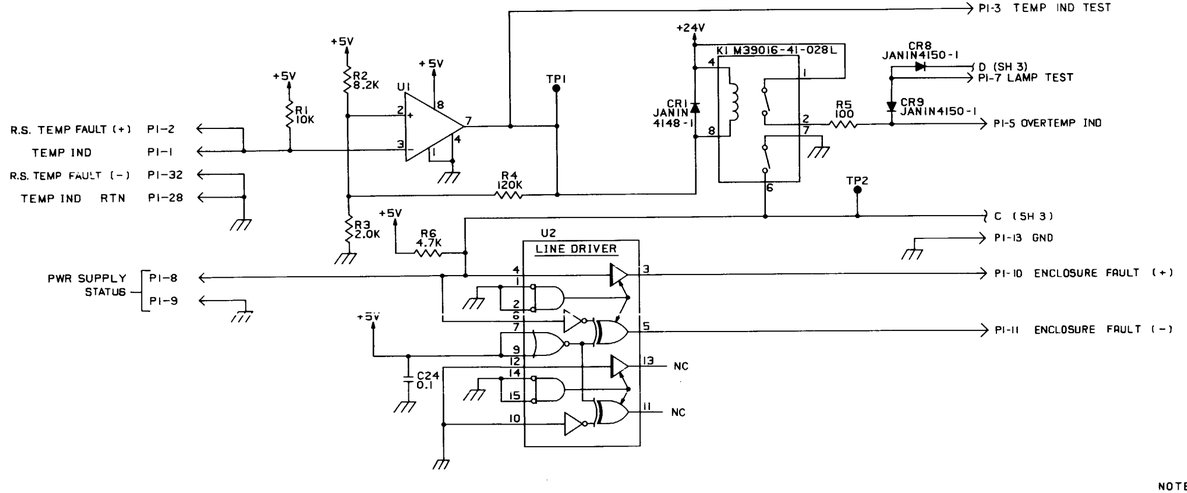
FO-1. Receiver Set, Schematic Diagram (Sheet 7 of 7)



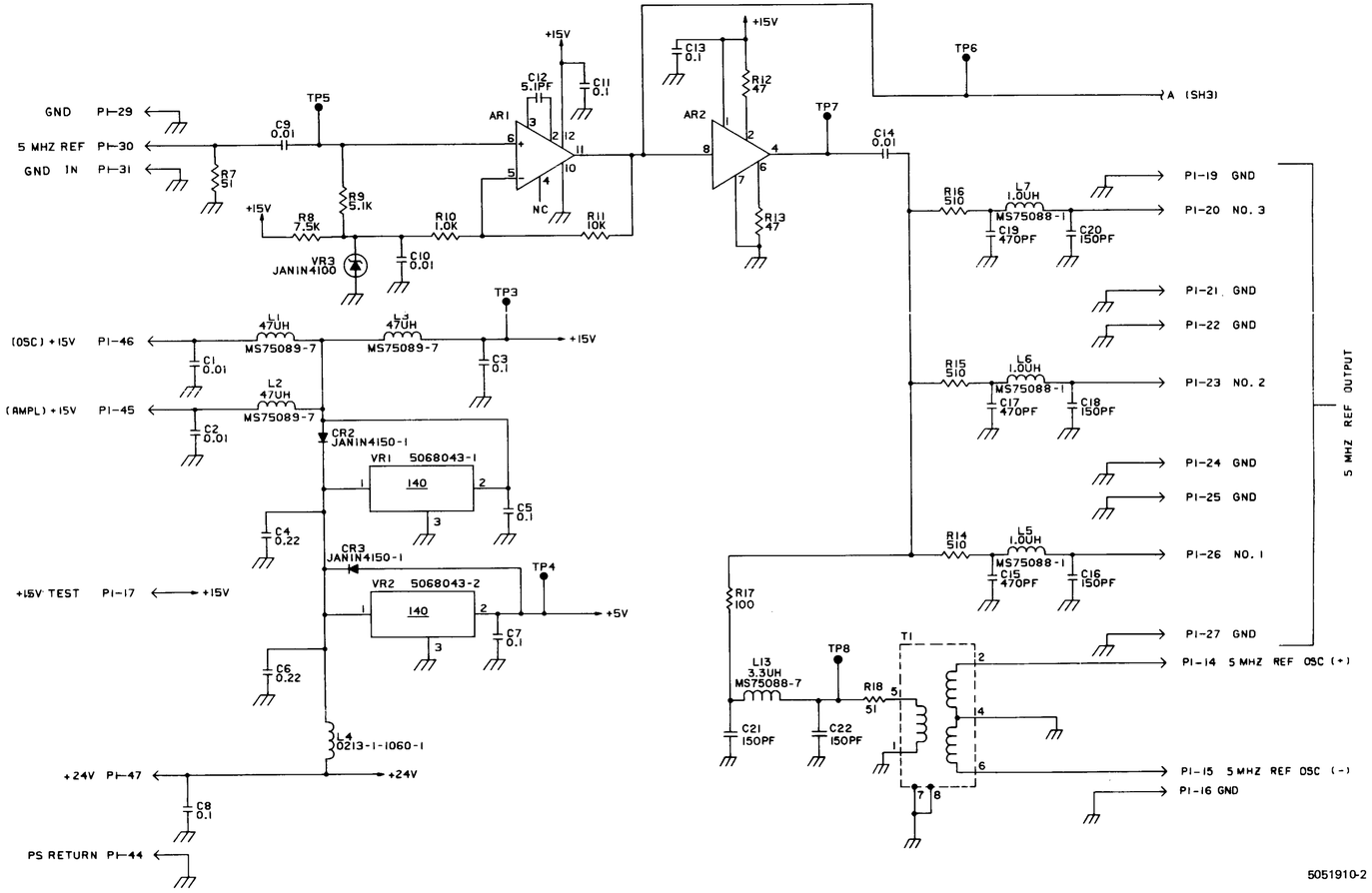
NOTES: UNLESS OTHERWISE SPECIFIED:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN: FOR COMPLETE DESIGNATION PREFIX WITH UNIT NO AND ASSEMBLY DESIGNATIONS
2. RESISTANCE VALUES IN OHMS
3. CAPACITANCE VALUES IN UF
4. UNUSED CONNECTOR PINS NOT SHOWN

HIGHEST REFERENCE DESIGNATIONS			
U3	AR3	R34	P1
VR3	T1	C36	CR9
K2	L13		
REFERENCE DESIGNATIONS NOT USED			
C23	R19-23	CR4,5	

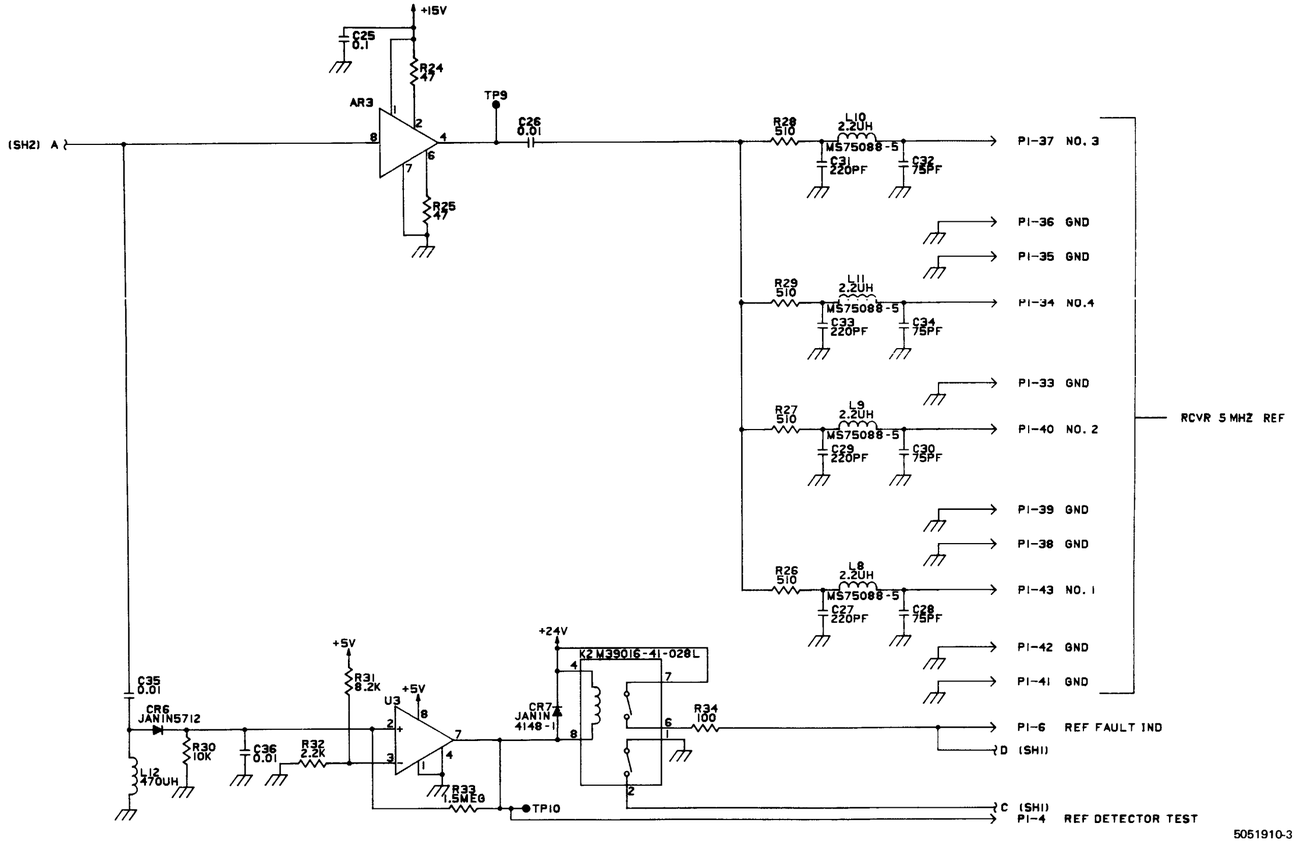
SUPPLEMENTARY DATA TABLE					
REF DES	PART NUMBER	TYPE	+15V	+5V	GND
U1,3	M38510-10304BGX	LM111	--	SHOWN	SHOWN
U2	0213-1-1295-2	7832	--	16	8
AR1	9068033-1	0032	SHOWN	--	SHOWN
AR2,3	78013016X	0002	SHOWN	--	SHOWN

5051910-1

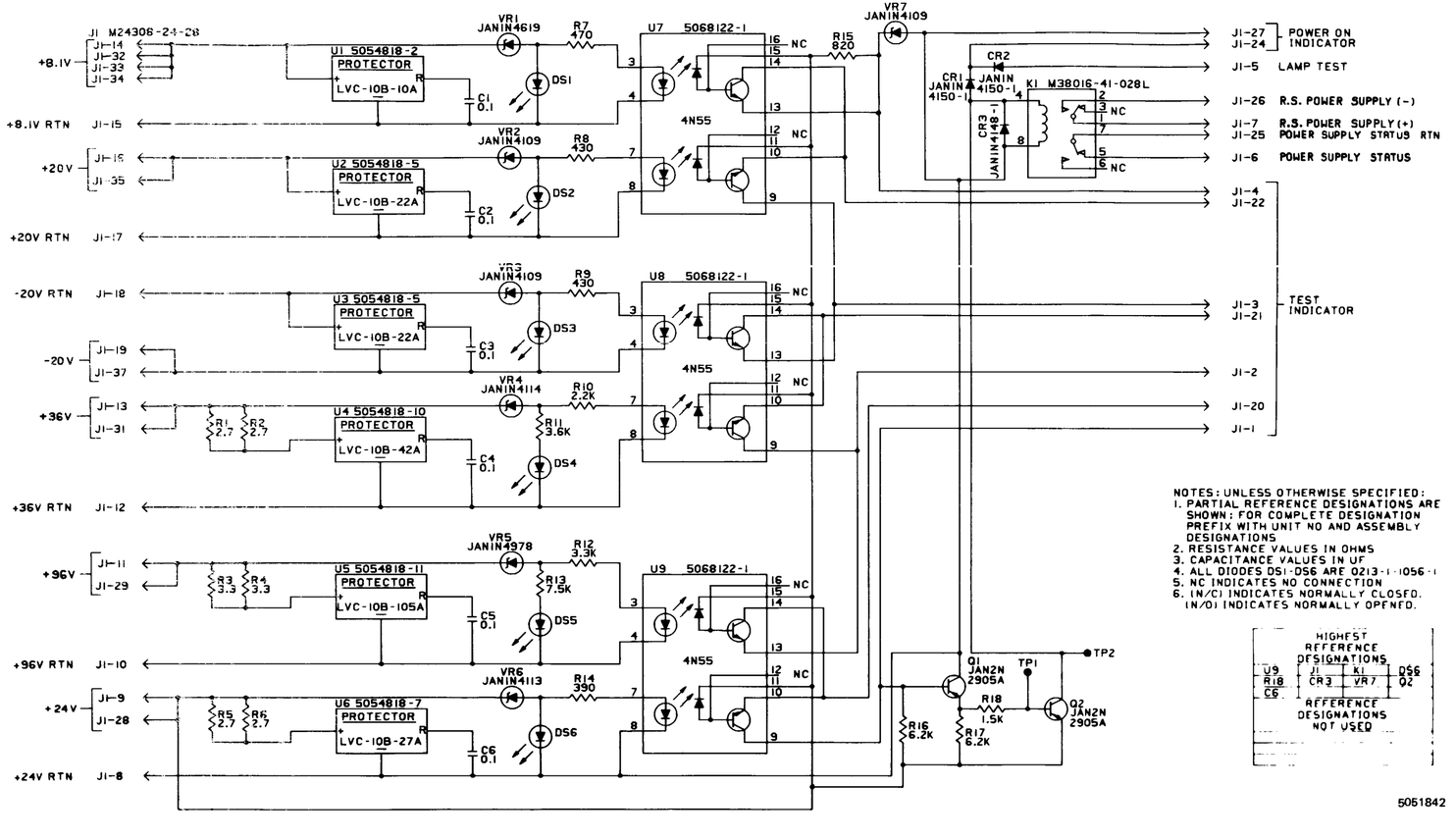
FO-2. Buffer Amplifier CCA (A5), Schematic Diagram (Sheet 1 of 3)



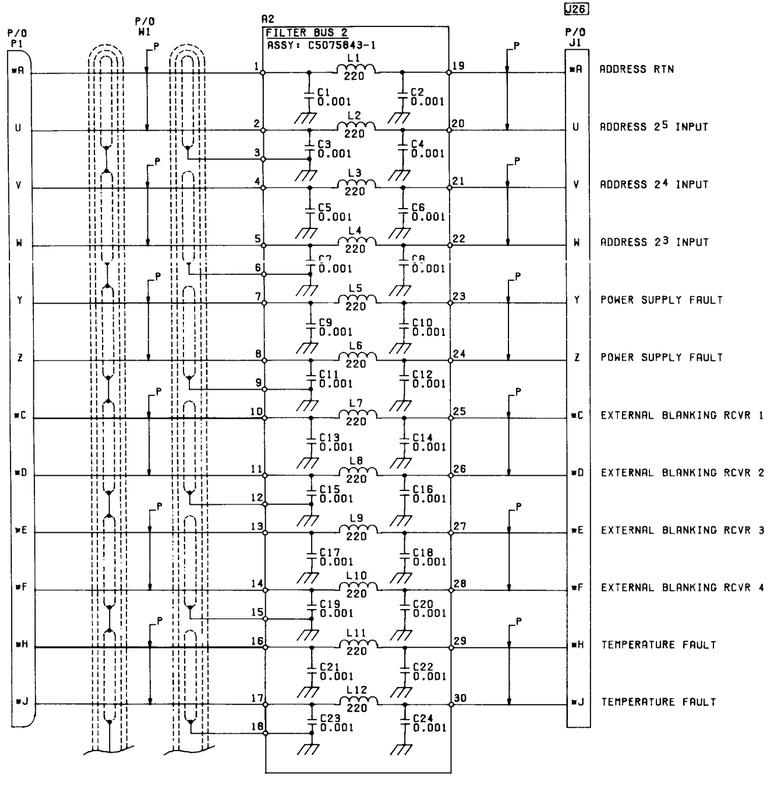
FO-2. Buffer Amplifier CCA (A5), Schematic Diagram (Sheet 2 of 3)



FO-2. Buffer Amplifier CCA (A5), Schematic Diagram (Sheet 3 of 3)



FO-3. Power Supply Monitor CCA (A6), Schematic Diagram



NOTES: UNLESS OTHERWISE SPECIFIED:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE DESIGNATION PREFIX WITH UNIT NO AND ASSEMBLY DESIGNATIONS
2. CAPACITANCE VALUES IN UF
3. INDUCTANCE VALUES IN UH
4. P/O INDICATES PART OF
5. UNUSED CONNECTOR PINS NOT SHOWN
6. * PRECEDING CONNECTOR PIN LETTER INDICATES LOWER CASE CHARACTER
7. ☐ INDICATES EQUIPMENT MARKING

HIGHEST REFERENCE DESIGNATIONS			
J1	P1	W1	A2
E2			
REFERENCE DESIGNATIONS NOT USED			

A1

HIGHEST REFERENCE DESIGNATIONS		
C24	L28	E22
REFERENCE DESIGNATIONS NOT USED		

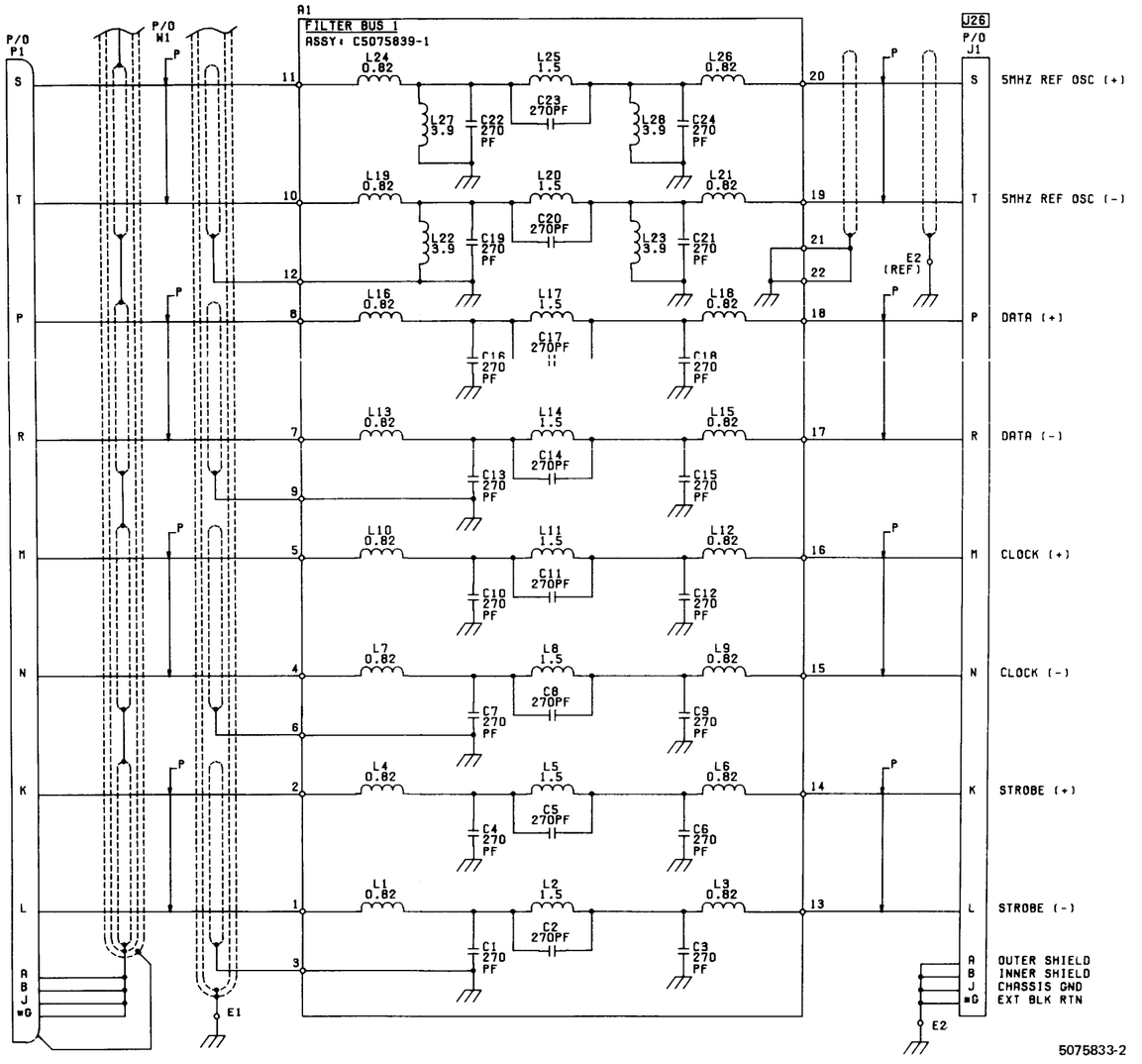
A2

HIGHEST REFERENCE DESIGNATIONS		
C24	L12	E30
REFERENCE DESIGNATIONS NOT USED		

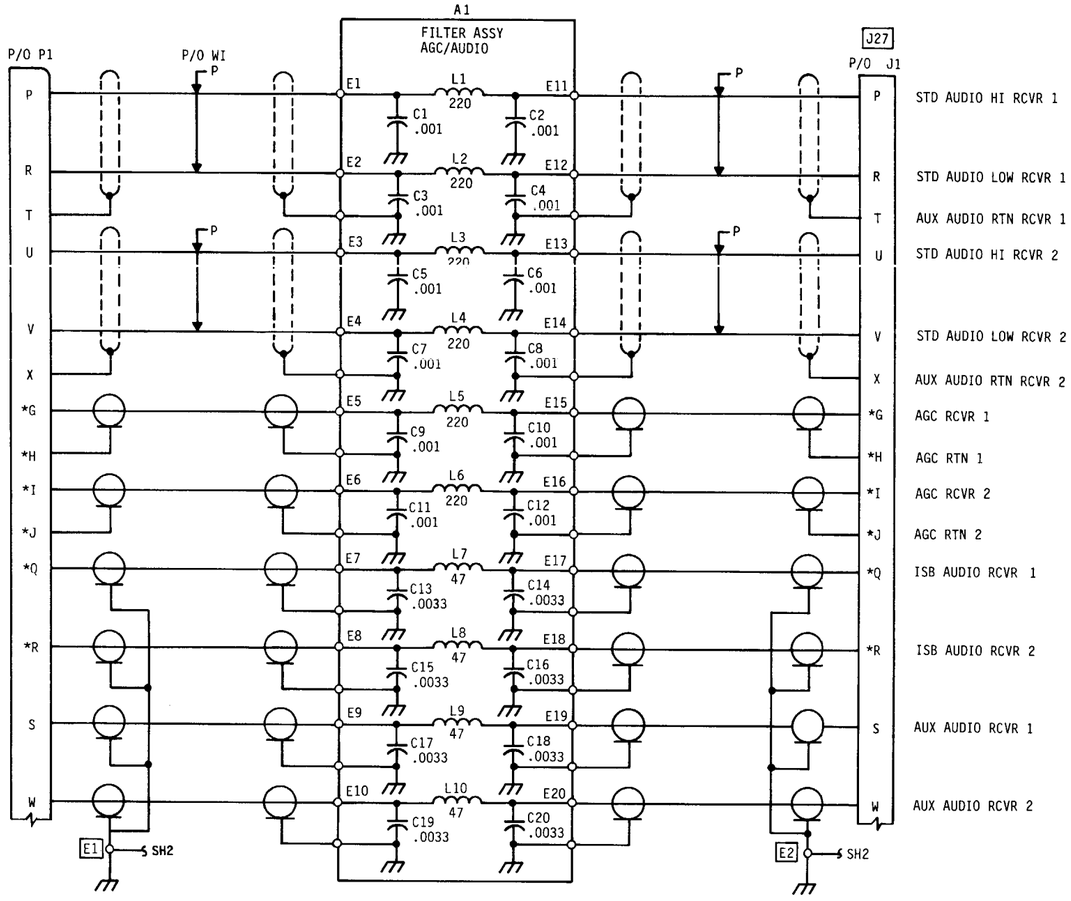
-1 AS SHOWN

5075833-1

FO-4. Filter Assembly (A10), Schematic Diagram (Sheet 1 of 2)



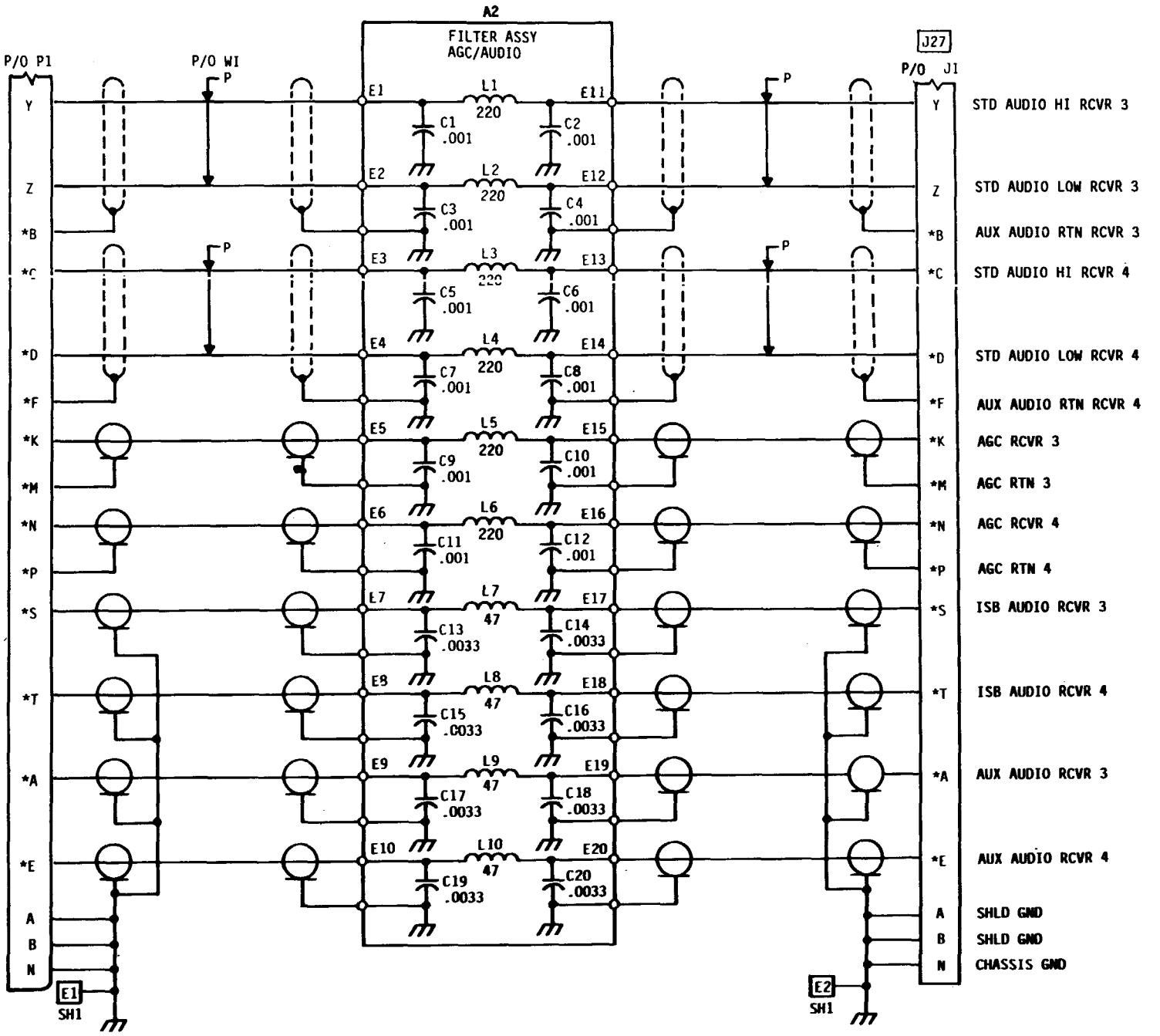
FO-4. Filter Assembly (A10), Schematic Diagram (Sheet 2 of 2)



NOTES: UNLESS OTHERWISE SPECIFIED:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN: FOR COMPLETE DESIGNATION PREFIX WITH UNIT NO. AND ASSEMBLY DESIGNATIONS.
2. CAPACITANCE VALUES ARE IN UF.
3. INDUCTANCE VALUES ARE IN UH.
4. P/O INDICATES "PART OF".
5. UNUSED CONNECTOR PINS ARE NOT SHOWN.
6. *PRECEDING CONNECTOR PIN LETTER INDICATES LOWER CASE CHARACTERS.
7. ▭ INDICATS EQUIPMENT MARKING.

FO-5. Filter Assembly, AGC/Audio (A11) Schematic Diagram
(Sheet 1 of 2)
Change 2



FO-5. Filter Assembly, AGC/Audio (A11) Schematic Diagram
(Sheet 2 of 2)

Change 2