TM 11-6625-1635-35

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DS, GS, AND DEPOT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-1004/ARC

This copy is a reprint which includes current pages from Change 1.

HEADQUARTERS, DEPARTMENT OF THE ARMY
AUGUST 1968

WARNING

DEATH OR SERIOUS INJURY may result from hazards in this equipment unless proper safety measures are observed when operating and maintaining the equipment. 27.5V DC exists when the equipment is energized.

PRINT ORDER 46

CHANGE
No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 7 *December 1971*

Direct Support, General Support, and Depot Maintenance Manual

Including Repair Parts and Special Tools lists

MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-1004/ARC

TM 11–6625-1635-35, 20 August 1968, is changed as follows:

1. This change reflects modifications incorporated by MWO 11-6625-1635-40/1.

2. New or changed material is indicated by a vertical bar.

3. Remove old pages and insert new pages as indicated in the page list below.

Remove pages-	*Insert pages-—*
i	i
1-1 and 1-2	1-1and 1-2
	2-1 and 2-2
	2-2.1
2-3 through 2-10	2-3 through 2-10
3-1 and 3-2	3-1 and 3-2
4-1 through 4-6	4-1 through 4-7
4-8 through 4-14	4-8 through 4-14
4-16 through 4-18	4-16 through 4-18
4-20 through 4-22	4-20 through 4-22
4-24 through 4-26	4-24 through 4-26
4-28 through 4-35	4–28 through 4-35
5-1 through 5-4	5-1 through 5-4
	5-13
A-1	A-1

4. File this change sheet in front of the publication for reference purposes.

By Order of the Secretary of the Army:

W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.

Official:

VERNE L. BOWERS,
Major General, United States Army,
The Adjutant General.

Distribution:

To redistributed in accordance with DA Form 12–36, direct and general support maintenance requirements for the O–1A, O-1E, OV-1A, OV–1B, OV–1C, U–1A, U–6A, U–8D, CH–21C, CH-34A, CH-34C, CH-47A, UH-1B, UH–1D, UH-19C, UH–19D, AH–1G, and CH–54 aircraft.

TECHNICAL MANUAL
No. 11–6626–1635–35

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., *20 August 1968*

Direct Support, General Support, and Depot Maintenance Manual

Including Repair Parts and Special Tools Lists

MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-I004/ARC

CHAPTER 1

CIRCUIT FUNCTIONING

Section I. GENERAL

1-1. Scope

a. This manual describes Maintenance Kit, Electronic Equipment MK–1004/ARC and provides instruction for direct support (DS), general support (GS), and depot maintenance. It includes instructions appropriate to DS, GS, and depot support for troubleshooting, replacement of parts, testing, aligning and repairing the maintenance kit. Depot overhaul standards (DOS) are included in this manual.

b. Appendix B is current as of 10 May 1968.

NOTE

For applicable forms and records, refer to TM 11-6626-1635-12.

1-2. Indexes of Equipment Publications

a. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. Refer to the latest issue of DA Pam 310-7 to determine whether there are modification work orders (MWO'S) pertaining to the equipment.

1-3. Report of Equipment Manual Improvements

The reporting of errors, omissions, and recommendations for improving this equipment publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding General, US Army Electronics Command, ATTN: AMSEL-ME-NMP-AD, Fort Monmouth, N.J. 07703.

1-4. Purpose and Use

a. Maintenance Kit, Electronic Equipment MK–1004/ARC (maintenance kit) is a portable equipment used in field testing and adjusting Radio Set AN/ARC–134.

b. The unmodified maintenance kit includes Panel, Test, Electrical SB–3003 (P) /ARC (test panel) mounted on the front of the equipment. The test panel houses Control, Radio Set C–7241/ARC (radio control), various input and output jacks, switches, indicators, and controls that are used to check, and adjust for, the proper operation of the AN/ARC–134.

c. The modified maintenance kit includes a test panel which mounts Control, Radio Set C–7241/ARC (radio control), Control, Intercommunication Set C–1611D/AIC (intercom control), an ammeter, and various input and output jacks, switches, indicators, and controls used to check, and adjust for, the proper operation of the AN/ARC–134.

d. The radio control is used to provide power control, receiver volume control, and channel selection for the AN/ARC–134 under test. A COMM TEST switch on the radio control provides a means of checking the operation of the AN/ARC–134 with the receiver squelch circuit disabled.

1-5. Differences in Models

Specific differences in the unmodified and modified maintenance kits, as a result of MWO 11–6625–163540/1, are given in table l–l. MWO 11–6625–1635-40/1 is a field modification that improves utilization of the maintenance kit in testing the complete VHF communications network of which the AN/ARC–134 Radio Set is a part.

Table 1-1. Differences in Models

Item	*MK-1004/ARC unmodified*	*MK-1004/ARC modified*
Control, Radio Set ----------	C-7241/ARC	C-7241/ARC
Intercommunications Control Set	None	C-1611D/AIC
DC Ammeter	None	0-10 Amps. Used to monitor input current to the radio set under test.
Reverse Current Diode	None	1N3890. Prevents damage to the Radio Set due to reverse polarity hookup.
Headset-Microphone	M–52A/U Microphone and H-216U Headset required as additional equipment.	Cord Assembly CX-2556 and Headset-Microphone H–101A/U included,as integral part of maintenance kit.
AC power supply	5-volt power source STANCOR. type P6467 or equal required.	None.

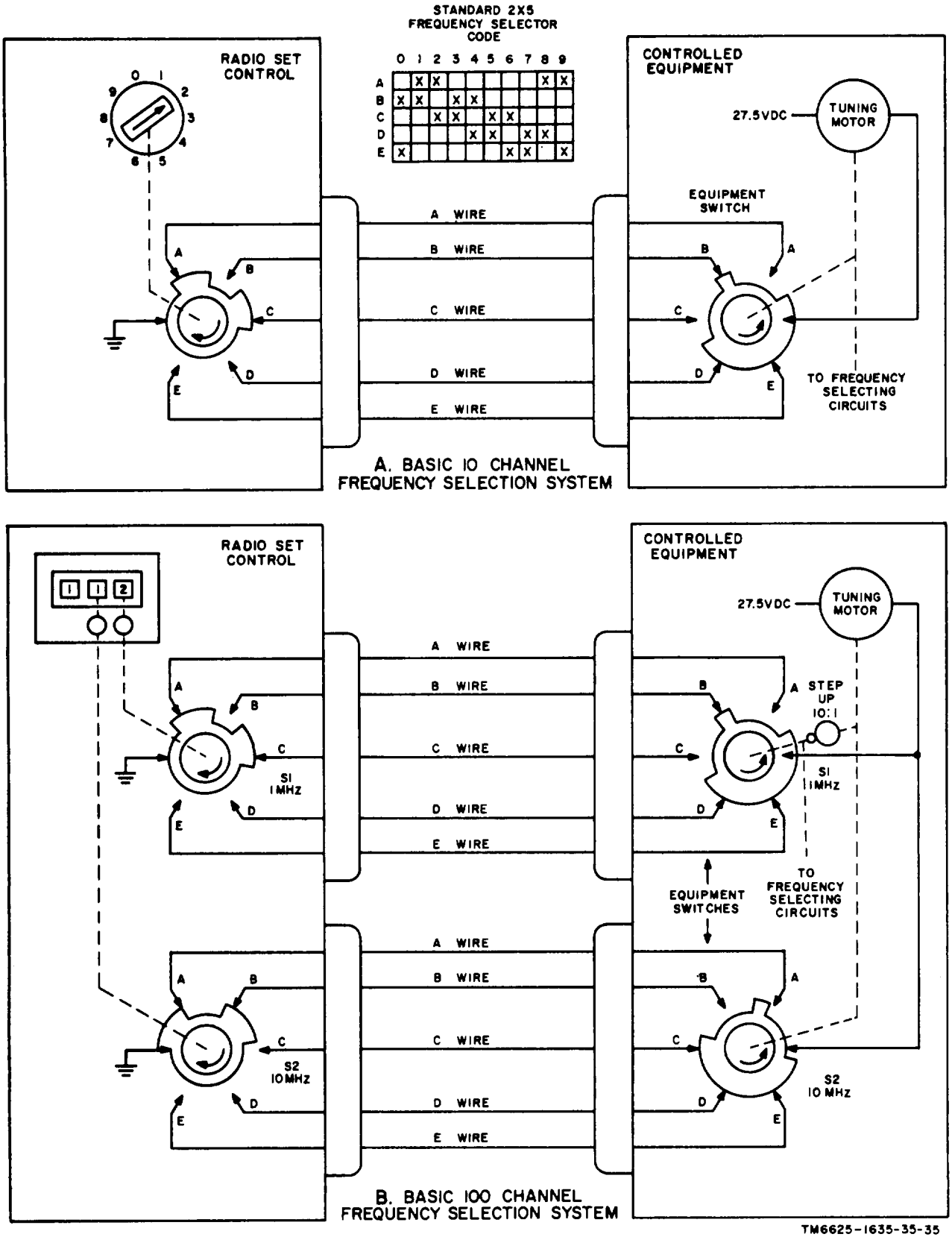
1-6 Basic Two-Out-Of-Five Frequency-Selection System

a. The two-out-of-five (2x5) frequency-selection system requires five control wires for each controlled digit comprising a channel frequency. Frequencies are selected by simultaneously grounding two wires out of each 5-wire group. A, figure 1-1, shows a simplified system for controlling an equipment having only 10 channels. Since each channel may be represented by a single digit, only one group of five control wires is required.

b. For example, when the radio control is set to position 2 (A, fig. 1-1), control wires A and C are grounded. The tuning motor then drives the switch and the frequency-selecting circuits in the controlled equipment to a point where the ground is removed from wires A and C and the operating voltage is removed from the motor. By setting the radio control to the other positions, related two-wire combinations are grounded in accordance with the standard 2 x 5 frequency-selector code shown on figure 1-1.

c. B, figure 1-1, shows a system for controlling an equipment having 100 channels. Since two controlled digits comprise any one frequency channel, two switches are required in both the radio control and the controlled equipment. Two groups of five control wires interconnect the switches. To simplify the explanation, the 100 channels have been assigned frequencies from 100 to 199 megahertz (MHz), with 1-MHz spacing between channels. Switch S1 is the 1-MHz selector and switch S2 is the 10-MHZ selector. The radio control is shown set to 112 MHz: Of the 5-wire group interconnecting switch S1 in the radio control and switch S1 in the controlled equipment, wires A and C are grounded, representing the digit 2 (2 MHz). Wires A and B, representing the digit 1 (1 MHz), are grounded in the 5-wire group interconnecting switch S2 in the radio control and switch S2 in the controlled equipment. The tuning motor is driven until the ground is removed from wires A and C of S1 and A and B of S2. The gearing between the tuning motor and the switches in the controlled equipment is such that switch S1 (the 1-MHz switch) makes 10 revolutions for each complete revolution of switch S2. This provides 100 different points (channels) at which the tuning motor may be stopped.

d. Solid-state, frequency-selection circuitry that uses the 2 x 5 selection system can be used in the controlled equipment, either in place of, or in combination with, the motor-driven arrangement shown in figure 1-1. In any case, a group of five wires is required for each controlled digit, with selection being accomplished by grounding two of the five wires.



TM 6625-1635-35-35

Figure 1-1. Basic two-out-of-five frequency-selection system.

CHAPTER 2

TROUBLESHOOTING

2–1. General Instructions

Troubleshooting at GS and depot maintenance categories includes all the techniques outlined for organizational maintenance and any special or additional techniques required to isolate a defective part. The systematic troubleshooting procedure, which begins at organizational, must be completed by means of localizing and isolating techniques. The paragraphs which follow provide intraunit (within the unit) troubleshooting procedures and describe the localizing and isolating techniques that must be performed at general support.

2–2. Test Equipment Required

The only test equipment required is Multimeter TS-352B/U (TM 11-6626-366-15).

2–3. Organization of Troubleshooting Procedure

a. General. The first step in servicing a defective test set is to localize the fault. Localization means tracing the fault to a defective circuit responsible for the abnormal condition. Some faults, such as burned or loose wires, can often be located by sight. The majority of faults, however, must be localized by resistance measurements.

b. Localization. The tests listed below will aid in isolating the trouble. First, localize the trouble to a single circuit and then isolate the trouble within that circuit by resistance and continuity measurements.

(1) *Visual inspection.* The purpose of visual inspection is to locate faults without testing or measuring circuits. All panel lamp indications or other visual signs should be observed and an attempt made to localize the fault to a particular circuit.

(2) *Operational tests.* Operational tests frequently indicate the general location of trouble. In many cases, the tests will help in determining the exact nature of the fault.

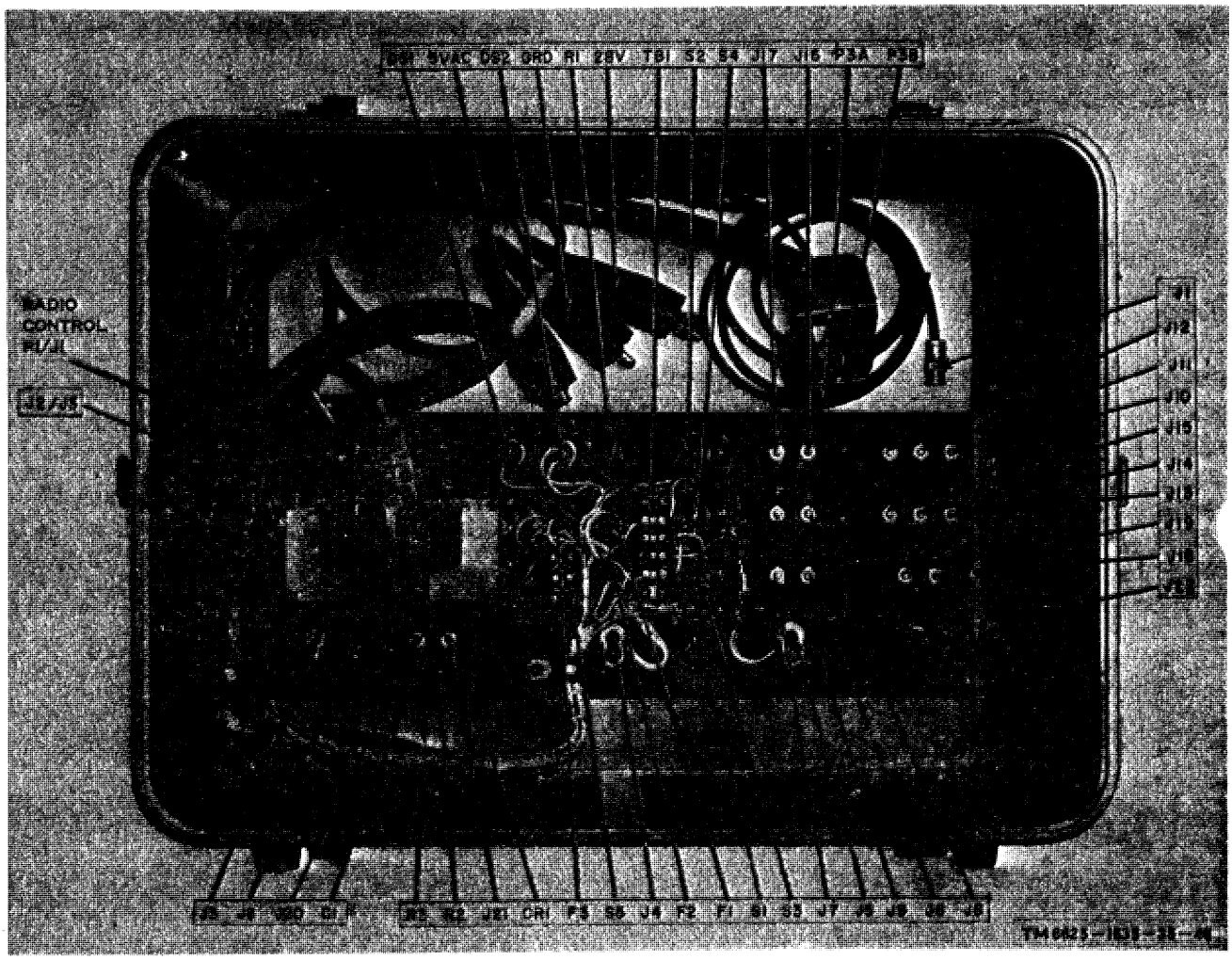


Figure 2-1. Test panel (unmodified), rear view.

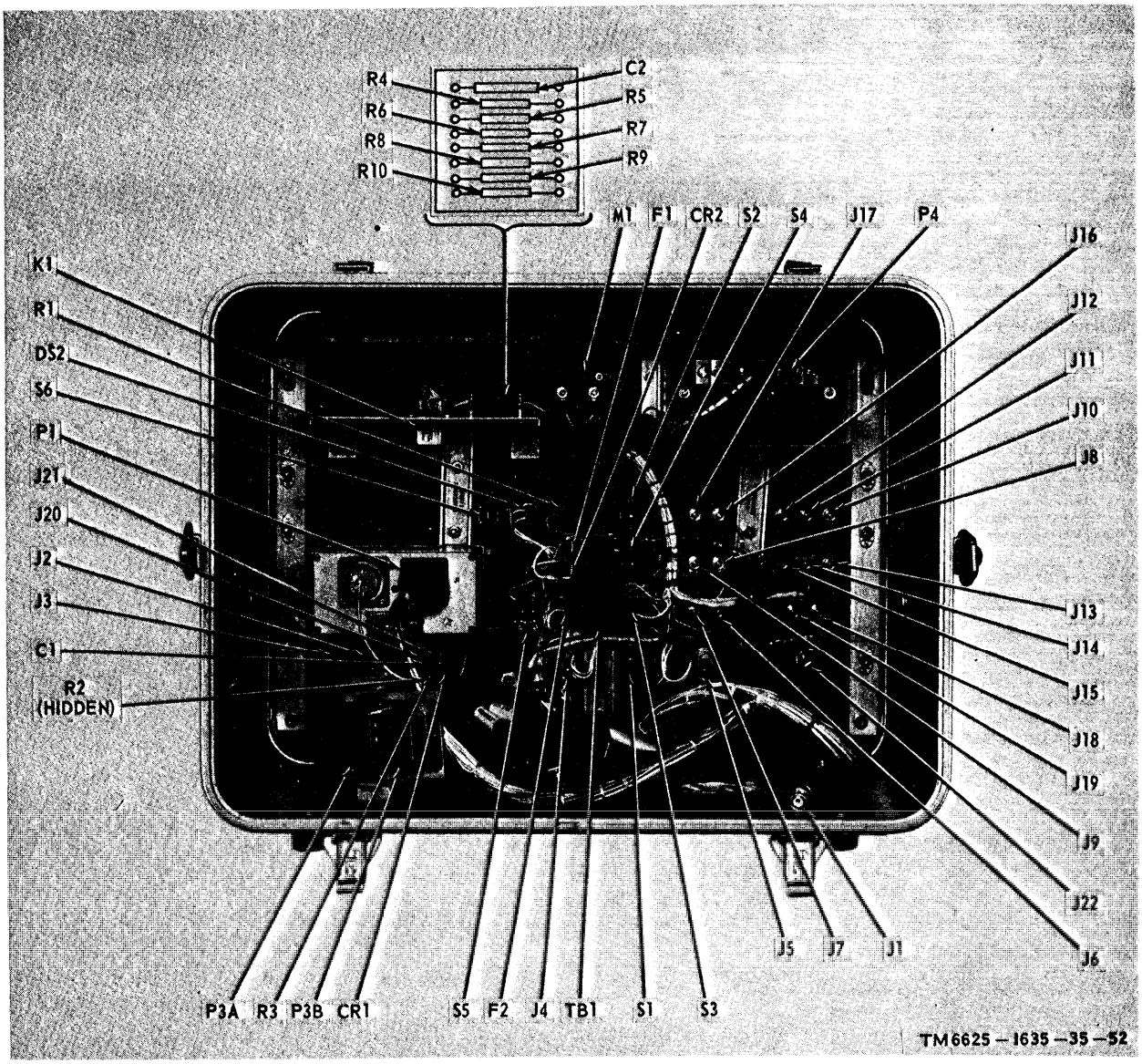


Figure 2-1.1 Test panel (modified), rear view.

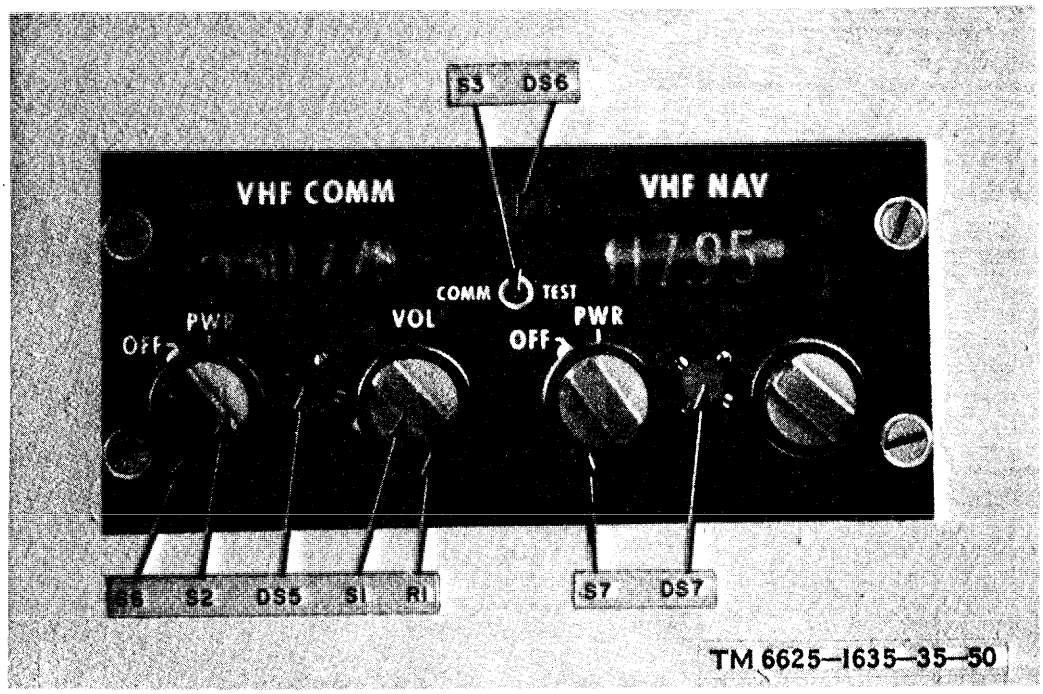


Figure 2-2. Radio control C-7241/ARC, front view.

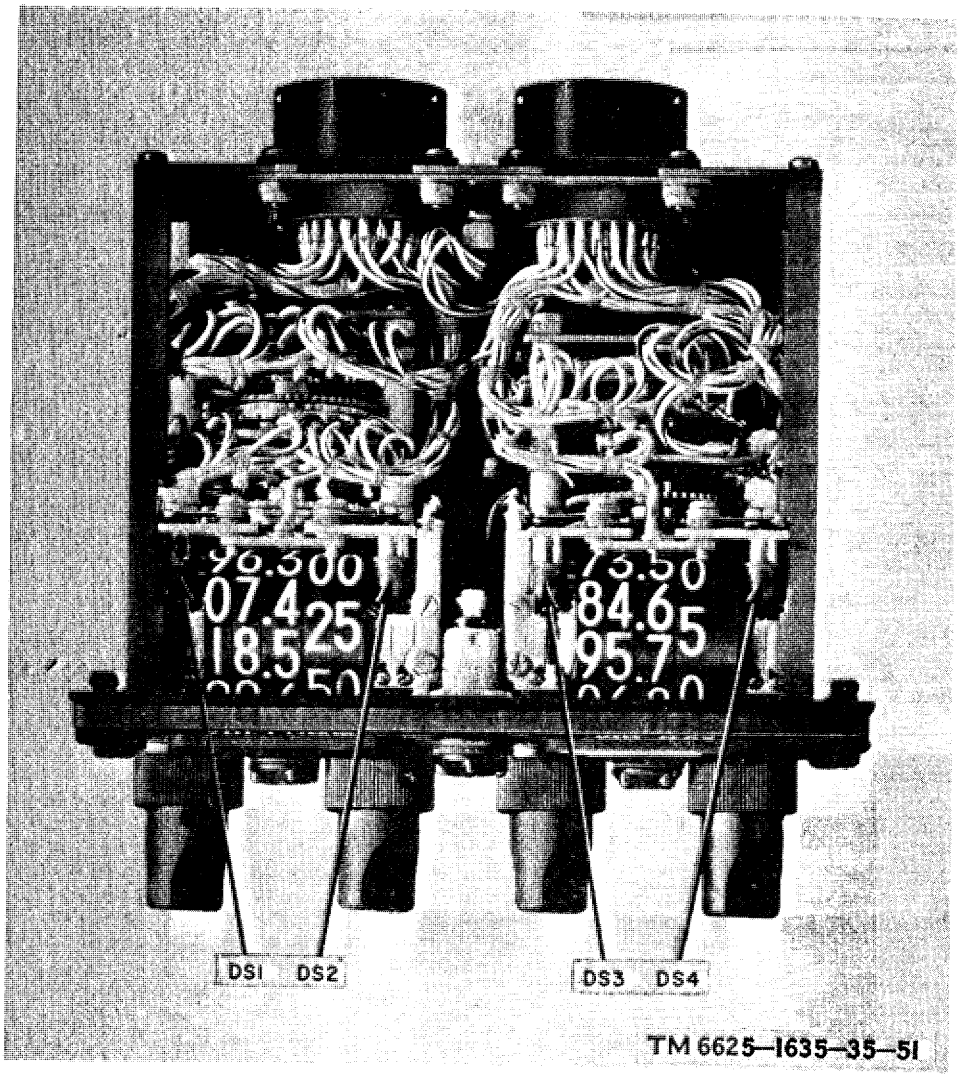


Figure 2-3. Radio control C-7241/ARC, top view.

(3) *Troubleshooting.* The trouble symptoms listed in *c* below will aid in localizing the trouble to a part or circuit. For physical location of parts, refer to figures 2-1, 2-1.1, 2-2, and 2-3.

(4) *Resistance and continuity measurements.* Make the resistance and continuity measurements listed in *d* below. Where results other than those indicated are obtained, isolate the faulty part by further resistance measurements,

(a) Disconnect all cables from the maintenance kit.

(b) Remove the front and back covers from the maintenance kit.

(c) Set the switches or controls to the position indicated in the *Point of measurement* column *(d* below).

(d) Refer to the schematic diagrams (fig. 2-4; 5-5, page 5-12; and 2-5) and connect the TS–352B/U as indicated in the *Point of measurement column (d* below).

(5) *Intermittent troubles.* In all tests, the possibility of intermittent troubles should not be overlooked. If present, this type of trouble often may be made to appear by tapping or jarring the equipment. Check the cables, wiring, and connections of the equipment.

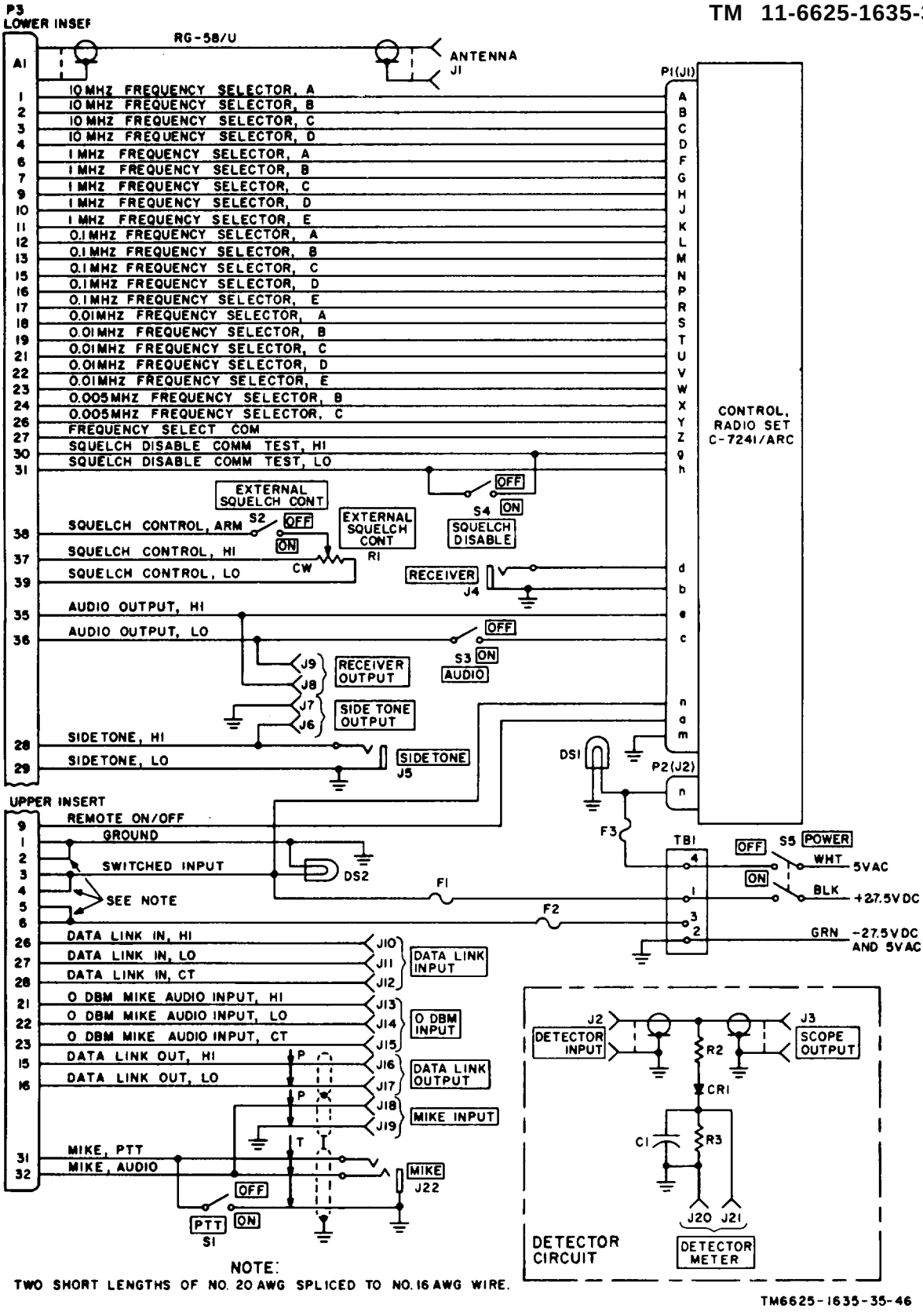


Figure 2-4. Test panel (unmodified), schematic diagram.

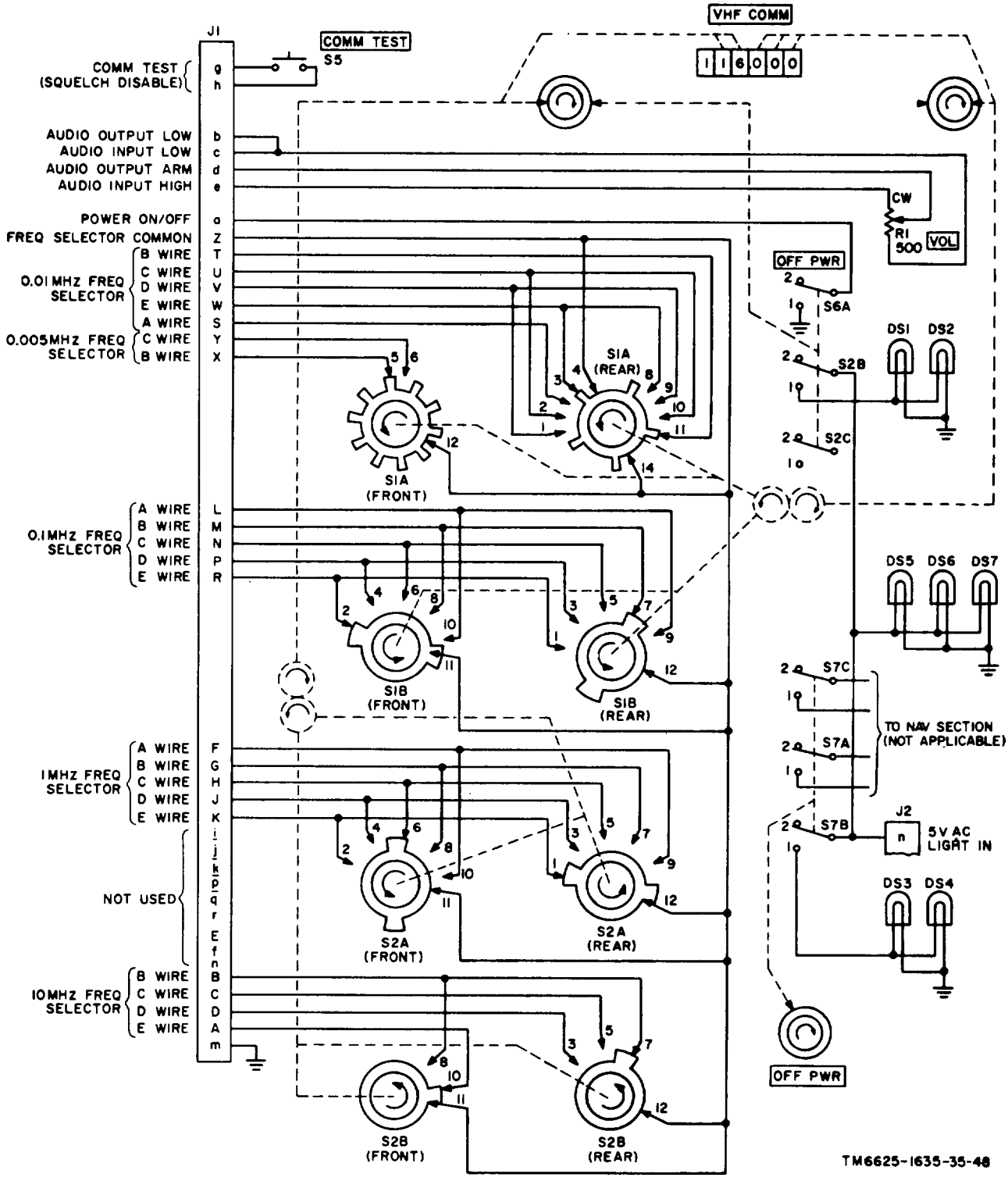


Figure 2-5. Control, radio set C-7241/ARC, COMM portion, schematic diagram.

c. Troubleshooting Chart.

Symptom	Probable trouble	Correction
1. Radio control panel lamps do not light (unmodified equipment).	POWER switch S5 is at OFF . . . . . Test panel fuse F3 open . . . . Radio control lamps DS5, DS6, and DS7 defective. Test panel switch S5 defective	Set POWER switch to ON. Replace F3. Replace lamps. Replace switch S5.
2. POWER lamp on test panel and panel lamps on radio control and intercom control do not light (modified equipment).	POWER switch S5 at OFF . .. .. Test panel fuse F1 open . . ... Test panel switch S5 defective Radio control lamps DS5, DS6, and DS7 defective.	Set POWER switch to ON. Replace F1. Replace S5. Replace lamps.
3. Panel lamps on radio control and intercom control do not light (modified equipment).	Diode CR2 defective . . ... Meter Ml defective	Replace CR2. Replace M1.
4. Test panel lamp DS1 does not light (unmodified equipment).	Test panel lamp DS1 defective	Replace lamp DS1.
5. Test panel lamp DS2 does not light.	Test panel lamp DS2 defective . . .. Test panel fuse F1 open . . . Test panel switch S5 defective	Replace lamp DS2. Replace F1. Replace switch S5.
6. VHF COMM frequency indicator not illuminated.	VHF COMM OFF-PWR switch is at OFF. Radio control lamps DS1 and DS2 defective. Radio control switch S6 defective . .	Set VHF COMM OFF-PWR switch to PWR. Replace lamps. Replace switch S6.
7. No output at RECEIVER OUTPUT jacks with proper 132.500-MHz signal to AN/ARC-134.	Open or shorted wiring from connector P3B-35 and P3B-36 to test panel jacks J8 and J9. VHF COMM frequency not set to 132.500 MHz. Contacts of radio control switches S1 and S2 dirty or broken.	Check and correct wiring. Set VHF COMM frequency-selector switch to 132.500 MHz. Clean contacts or replace switch S1 and S2 wafers.
8. No output at DATA LINK OUTPUT jacks with proper 132,500 MHz signal to AN/ARC-134.	Open or shorted wiring from connector P3A-15 and P3A–16 to test panel jacks J16 and J17.	Check and correct wiring.
9.No output at RECEIVER jack with proper signal to AN/ARC-134.	AUDIO switch is at OFF . . . . . . EXT SQUELCH CONT switch at ON. Radio control potentiometer R1 open. Open or shorted wiring from connector P1-b and P1-d to test panel jack J4.	Set AUDIO switch to ON. Set EXT SQUELCH CONT switch to OFF, or readjust EXT SQUELCH CONT. Replace R1. Check and correct wiring.
10. No output at RECEIVER jack when COMM TEST switch is depressed.	EXT SQUELCH CONT misadjusted. Radio control switch S5 defective -- Open or shorted wiring from Pi-g and Pi-h to P3B–30 and P3B-31.	Readjust EXT SQUELCH CONT. Replace switch S5. Check and correct wiring.

Symptom	Probable trouble	Correction
11. EXT SQUELCH CONT has no effect on level at which squelch breaks.	EXT SQUELCH CONT switch at OFF. Test panel potentiometer R1 defective. Open or shorted wiring between R1 and P3B-37, P3B-38, and P3B-39 on test panel.	Set EXT SQUELCH CONT switch to ON. Replace R1. Check and correct wiring.
12. No output from AN/ARC-134 at antenna connector J1.	PTT switch is at OFF . Open or shorted wire between switch S1 and P3A–31 on test panel.	Set PTT switch to ON. Check and correct wiring.
13. No output at SIDETONE jack.	Open or shorted wiring between J22 and P3A-31 and P3A–30 on test panel (unmodified equipment). Open or shorted wiring between J5 and P3B–28 and P3B–29 on test panel. Open or shorted wiring between P3A-31 and P4-26 or P3A-30 and P4–35 (modified equipment). Intercom control defective UG-94A/U defective (modified equipment).	Check and correct wiring. Check and correct wiring. Check and correct wiring. Repair or replace intercom control. Repair or replace UG-94A/U.
14. No evidence of modulation with Generator, Signal AN/URM-127 supplying signal to MIKE INPUT jacks.	Open or shorted wire between J18 and P3A–30 on test panel, or between J19 and ground on test panel.	Check and correct wiring.
15. No output at DETECTOR METER jacks with antenna connector J1 connected to DETECTOR INPUT jack.	Defective detector circuit. . . .	Repair or replace detector circuit.

d. Resistance and Continuity Tests.

Point of measurement	Normal indication	Isolating procedure
Between tip contact of test panel jack J22 and P3A–31.	Short circuit	Check wiring from J22 to P3A-31.
Between ring contact of test panel jack J22 and P3A-30.	Short circuit-----	Check wiring from J22 to P3A-30.
With PTT switch at ON, between sleeve contact of test panel jack J22 and P3A-31.	Short circuit	Check test panel switch S1 and wiring from J22 sleeve contact to P3A-31.
Between test panel jack J18 and P3A-30	Short circuit	Check wiring between J18 and P3A-30.
Between test panel jack J19 and ground	Short circuit	Check wiring between J19 and ground.
Between test panel jack J17 and P3A–16	Short circuit. . . .	Check wiring between J17 and P3A-16.
Between test panel jack J16 and P3A-15	Short circuit	Check wiring between J16 and P3A-15.
Between test panel jack J15 and P3A-23	Short circuit	Check wiring between J15 and P3A-33.
Between test panel jack J14 and P3A-22	0 ohm	Check wiring between J14 and P3A-22.

Point of measurement	Normal Indication	Isolating procedure
Between test panel jack J13 and P3A-21	0 ohm ----------	Check wiring between J13 and P3A-21.
Between test panel jack J12 and P3A-28	0 ohm ----------	Check wiring between J12 and P3A-28.
Between test panel jack J11 and P3A–27	0 ohm ----------	Check wiring between J11 and P3A-27.
Between test panel jack J10 and P3A-26	0 ohm ----------	Check wiring between J10 and P3A-26.
Between test panel terminal board TB1-3 and P3A–5 and P3A6.	0 ohm ----------	Check fuse F2 and wiring between TB1-3 and P3A-5 and P3A-6.
Between alligator clip ground and P3A-1 and P3A-2.	0 ohm ----------	Check wiring between alligator clip ground and P3A-1 and P3A–2.
With POWER switch at ON, between alligator clip 27.5 Vdc (unmodified) or 28.7 Vdc (modified) and P3A–3 and P3A-4.	0 ohm ----------	Check fuse F1, diode CR2, meter M1, and wiring between alligator clip and P3A-3 and P3A-4.
With POWER switch at ON, between alligator clip 5 Vac and P2–n (unmodified equipment).	Approximately 30 ohms ----	Check fuse F3, test panel lamp DS1, and wiring between alligator clip 5 Vac and P2-n.
With POWER switch at ON, between alligator clip 5 Vac and ground (unmodified equipment).	Approximately 90 ohms ----	Check radio control lamps DS5, DS6, and DS7.
With VHF COMM OFF-PWR switch at PWR, POWER switch at ON, between alligator clip 5 Vac and ground (unmodified equipment).	Approximately 36 ohms ----	Check radio control lamps DS1, DS2, and switch S6.
With VHF COMM OFF-PWR switch at PWR, between P3A-9 and ground.	0 ohm ----------	Check radio control switch S6 and wiring between S6 and P3A-9.
Between test panel jack J5 sleeve contact and P3B–29.	0 ohm ----------	Check wiring between J5 and P3B-29.
Between test panel jack J5 tip contact and P3B–28.	0 ohm ----------	Check wiring between J5 and P3B–28.
Between test panel jack J6 and P3B-28	0 ohm ----------	Check wiring between J6 and P3B–28.
Between test panel jack J7 and P3B-29	0 ohm ----------	Check wiring between J7 and P3B-29.
Between test panel jack J8 and P3B–35	0 ohm ----------	Check wiring between J8 and P3B-35.
Between test panel jack J9 and P3B-36	0 ohm ----------	Check wiring between J9 and P3B-36.
With AUDIO switch at ON, between P3B-35 and P3B-36.	Approximately 500 ohms ---	Check test panel switch S3, radio control potentiometer R1, and wiring between P3B-35 and P3B–36, and radio control.
With VOL control fully clockwise, be. tween test panel jack J4 tip and sleeve contacts (unmodified equipment).	Approximately 500 ohms ---	Check radio control potentiometer R1 and wiring between test panel jack J4 and R1.
With radio control VOL control fully clockwise, intercom control VOL control fully clockwise between test panel jack J4 tip and sleeve contacts (modified equipment).	Approximately 250 ohms ---	Check radio control potentiometer RI, intercom control, and wiring to jack J4.

Point of measurement	Normal indication	Isolating procedure
Between P3B-37 and P3B-39 ----------	Approximately 10,000 ohms	Check test panel potentiometer R1 and wiring between R1 and P3B-37 and P3B-39.
With EXT SQUELCH CONT switch at ON and EXT SQUELCH CONT fully clockwise, between P3B–38 and P3B-39.	Approximately 10,000 ohms	Check test panel switch S2, potentiometer R1, and wiring between R1 and P3B-38.
With SQUELCH DISABLE switch at OFF, between P3B-30 and P3B-31.	Infinite resistance	Check test panel switch S4 and wiring between P3B-30 and P3B-31. Check radio control switch S3.
With SQUELCH DISABLE switch at ON, between P3B–30 and P3B-31.	0 ohm ----------	Check test panel switch S4 and wiring between P3B-30 and P3B-31.
With SQUELCH DISABLE switch at OFF, press COMM TEST switch and measure between P3B-30 and P3B-31.	0 ohm ----------	Check radio control switch S3 and wiring between P3B-30 and P3B-31.
With U-94A/U transmit switch depressed, between P4-17 and ground (modified equipment).	0 ohm	Check test panel relay K1, wiring between P4-17 and K1, and wiring between U-94A/U and K1.
With U-94A/U transmit switch depressed, between P4-15 and ground (modified equipment).	0 ohm	Check test panel relay K1, and wiring between P4-16 and K1.
With VHF COMM frequency-selector switches set to 116.000, measure from P3B-27 to following points:		
P3B-24	0 ohm . . . . _____	Check radio control switch S1A (front).
P3B-23 ----------	0 ohm	Check radio control switch S1A (rear).
P3B-19 ... ----------	0 ohm ----------	Check radio control switch S1A (rear).
P3B-17	0 ohm . . . . .. ----- --------	Check radio control switch S1B (front).
P3B-13 .. . . ----------	0 ohm ----------	Check radio control switch S1B (rear).
P3B-9	0 ohm ----------	Check radio control switch S2A (front).

Point of measurement	Normal indication	Isolating procedure
P3B–11	0 ohm	Check radio control switch S2A (rear).
P3B–1	0 ohm	Check radio control switch S2B (front).
P3B–2	0 ohm	Check radio control switch S2B (rear).
With VHF COMM frequency-selector switches set to 127.125, meaure from P3B–27 to following points:		
P3B-26	0 ohm	Check radio control switch S1A (front).
P3B-18	0 ohm	Check radio control switch S1A (rear).
P3B-21	0 ohm	Check radio control switch S1A (rear).
P3B-12	0 ohm	Check radio control switch S1B (front).
P3B-10	0 ohm	Check radio control switch S2A (front).
P3B-3	0 ohm	Check radio control switch S2B (rear).
With VHF COMM frequency-Selector switches set to 138.250, measure from P3B-27 to following points:		
P3B-21	0 ohm	Check radio control switch S1A (rear).
P3B-22	0 ohm	Check radio control switch S1A (rear).
P3B-15	0 ohm	Check radio control switch S1B (rear).
P3B–6	0 ohm	Check radio control switch S2A (rear).
P3B-2	0 ohm	Check radio control switch S2B (front).
With VHF COMM frequency-selector switches set to 149.375, measure from P3B–27 to following points:		
P3B-22	0 ohm	Check radio control switch S1A (rear).
P3B-23	0 ohm	Check radio control switch S1A (rear).
P3B-13	0 ohm	Check radio control switch S1B (front).
P3B-11	0 ohm	Check radio control switch S2A (front).
P3B-4	0 ohm	Check radio control switch S2B (rear).

Point of measurement	Normal indication	Isolating procedure
With VHF COMM frequency-selector switches set to 140.000, measure from P3B–27 to following points:		
P3B-17	0 ohm	Check radio control switch S1B (rear).
P3B-7	0 ohm	Check radio control switch S2A (rear).
With VHF COMM frequency-selector switches set to 141.500, measure from P3B–27 to following points:		
P3B-15	0 ohm	Check radio control switch S2B (front).
P3B-6	0 ohm	Check radio control switch S2A (front).
With VHF COMM frequency-selector switches set to 142.600, measure from P3B-27 to following points:		
P3B–17	0 ohm	Check radio control switch S1B (rear).
P3B-9.	0 ohm	Check radio control switch S2A (rear).
With VHF COMM frequency-selector switches set to 143.700, measure from P3B–27 to following points:		
P3B-16	0 ohm	Check radio control switch S1B (front).
P3B-7	0 ohm .	Check radio control switch S2A (front).
With VHF COMM frequency-selector switches set to 144.800, measure from P3B-27 to following points:		
P3B-12	0 ohm	Check radio control switch S1B (rear).
P3B-10	0 ohm	Check radio control switch S2A (rear).

CHAPTER 3

REPAIRS AND ALIGNMENT

3-1. General Parts Replacement Techniques

Except for the radio control, the parts of the maintenance kit can be easily reached and replaced without special procedures. Disassembly and reassembly of Radio Set Control C–7241/ ARC are covered in paragraphs 3-2 and 3-3; and Intercommunications Control Set C-1611 D/AIC is covered in TM 11–5831–201–20. Several parts replacement techniques are presented in *a, b,* and *c* below.

a. Before a part is removed, note the position of the part and tag or otherwise identify all wiring that is to be disconnected. Make a note of color coding, placement of wires, and method of insulation before unsoldering wire.

b. Use a pencil-type soldering iron with a 25-watt maximum capacity. If the iron must be used with an alternating current (at) source, use an isolating transformer between the iron and the line.

c. When soldering leads to diodes, solder quickly and use a heat sink (such as long-nose pliers) between the soldered joint and the diode.

3-2. Disassembly of Radio Set Control C-7241/ARC

(fig. 54)

a. Front Panel Lamps.

(1) Remove three lamp receptacle caps (1), fiber washers (2), and rubber rings (3) from front panel (5).

(2) Extract panel lamps (4) from the body of each receptacle cap (1).

b. Protective Covers.

(1) Remove two screws (6) from each side of the radio control and lift top cover (7) from the unit.

(2) Remove four screws (8) from the bottom of the radio control and lift bottom cover (9) from the unit.

c. Frequency Dial Indicator Lamps.

(1) Remove rubber cover (10) from each of the VHF COMM indicator lamps (13).

(2) Loosen screw (11) at the base of each lamp (13) and position retaining tab (12) off the base of each lamp.

(3) Pull indicator lamps (13) out through holes in rear gear plate (14).

(4) Remove rubber cover from each of the VHF NAV indicator lamps (18).

(5) Loosen screw (16) at the base of each VHF NAV indicator lamp (18) and position retaining tab (17) of the base of each lamp.

(6) Pull VHF NAV indicator lamps (18) out through the holes in rear gear plate (19).

d. Front Panel.

(1) Rotate the front panel, VHF COMM frequency-selector knobs to 116.000 and the VHF NAV frequency-selector knobs to 108.00.

(2) Set the VHF NAV and VHF COMM OFF-PWR switches to OFF and turn the VHF COMM VOL control fully counterclockwise.

(3) Loosen two setscrews in each of four knobs (20) ; remove knobs.

(4) Loosen two setscrews in knob (22) and in each of three knobs (21) ; remove knobs.

(5) Remove three receptacle caps (1), if not already removed in *a,* above, and remove front panel (5).

e. Switch S6 and VOL Control R1.

(1) If only switch S6 and VOL control R1 are being replaced, remove front panel (5) *(d* above).

(2) Remove mounting plate (23), with switch S6 (29) and VOL control R1 (33) attached, by removing two screws (24) and stand-off spacers (25) from front gear plate (34) .

(3) Remove switch S6 (29) from mounting plate (23) as follows:

(a) Loosen the two setscrews in spur gear (26) and remove the spur gear from the shaft of the switch.

(b) Remove nut (27) and washer (28) from the switch bushing and pull the switch out through the mounting hole in the mounting plate.

(c) Tag and unsolder wires attached to the terminals on the switch.

(4) Remove VOL control R1 (33) as follows :

(a) Loosen the two setscrews in spur gear (30) and remove the gear from the shaft of the control.

(b) Remove nut (31) and washer (32) from the control and pull the control out through the mounting hole in the plate.

(c) Tag and unsolder wires attached to the terminals on the control.

f. Switch S7.

(1) If only switch S7 is being replaced, remove f rent panel (5) (d above).

(2) Remove mounting plate (35), with switch S7 (41) attached, by removing two screws (36) and standoff spacers (37) from f rent gear plate (34).

(3) Loosen two setscrews in spur gear (38) and slide the spur gear from the shaft of the switch.

(4) Remove nut (39) and washer (40) from the switch and pull the switch out through the mounting hole in the plate.

(5) Tag and unsolder wires connected to the terminals on the switch.

g. Switch S5

(1) If only switch S5 is being replaced, remove front panel (5) *(d* above).

(2) Remove nut (42) from the bushing of switch S5 (44) and pull the switch out through the mounting hole in front of the gear plate.

(3) Tag and unsolder wires connected to the terminals on the switch.

h. Connector's J1 and J2.

(1) Remove four screws (45) and lockwashers (46) and pull rear plate (47) from the chassis. Remove lacing from wiring but do not unsolder wires connected to receptacles J1 (52) and J2 (53).

(2) Remove bracket (54) from rear plate (47) by removing two screws (48), self-locking nuts (49), two screws (50), and self-locking nuts (51).

(3) Remove rear plate (47) from connectors J1 (52) and J2 (53) by removing remaining two screws (48), self-locking nuts (49), two screws (50), and self-locking nuts (51).

(4) Tag and unsolder wires connected to J1 and J2.

i. Switch Sections S1A, S1B, S2A, and S2B. If the radio control is to be completely disassembled, begin with (3) below. If only the switch sections are to be removed, begin with (1) below.

(1) Make sure that the front panel VHF COMM frequency-selector knobs have been set to 116.000. Remove four screws (45) and lockwashers (46) from rear plate (47).

(2) Pull rear plate (47), with connectors J1 (52) and J2 (53) attached, away from the radio control.

(3) Remove nuts (55) and lockwashers (56) from screws (78 and 79) and lift plate (57) from frequency-selector shaft (77) and screws (78 and 79).

(4) Slide washers (58) and (59) from frequency-selector shaft (77) and spacer insulators (60) from screws (78 and 79).

(5) Tag and unsolder wires connected to switch sections S2B (61). Lift switch section (61) from the hubs of gear assembly (64) and screws (78 and 79).

(6) Remove spacer insulators (62) from screws (78 and 79).

(7) Tag and unsolder wires connected to switch section S2A (63). Lift switch section (63) from the hub of gear assembly (64) and screws (78 and 79).

(8) Slide gear assembly (64) and washers (67 and 68) from frequency-selector shaft (77) and remove spacer insulators (65 and 66) from screws (78 and 79).

(9) Loosen the two setscrews in gear assembly (138) and slide the gear assembly from gear shaft (139).

(10) Tag and unsolder the wires attached to switch section S1B (69). Lift switch sect ion (69) from the hub of gear assembly (72) and screws (78 and 79).

(11) Remove spacer insulators (70) from screws (78 and 79).

(12) Tag and unsolder wires connected to switch section S1A (71). Lift switch section (71) from the hub of gear assembly (72) and screws (78 and 79).

(13) Slide gear assembly (72) from frequency-selector shaft (77) and remove spacer insulators (73) from screws (78 and 79).

(14) Remove frequency-selector shaft (77) from rear gear plate (14) and remove retaining ring (75) and washer (76) from frequency-selector shaft (77).

j. Switch Sections S3A, S4A, *and S4B.* If the radio control is to be completely disassembled, begin with (3) below. If only switch sections are to be removed, start with (1) below.

(1) Make sure that the front panel VHF NAV frequency-selector knobs are set to 108.00. Remove four screws (45) and lockwashers (46) from rear plate (47).

(2) Pull rear plate (47), with connectors J1 (52) and J2 (53) attached, away from the radio control.

(3) Remove nuts (80) and lockwashers (81) from screws (98 and 99) and lift plate (82) from frequency-selector shaft (97) and screws (98 and 99).

(4) Slide washers (83) from frequency-selector shaft (97) and spacer insulators (84) from screws (98 and 99).

(5) Tag and unsolder wires connected to switch section S4B (85). Lift switch section (85) from the hub of gear assembly (92) and screws (98 and 99).

(6) Remove spacer insulators (86 and 87) from screws (98 and 99).

(7) Tag and unsolder wires connected to switch section S4A (88). Lift switch section (88) from the hub of gear assembly (92) and screws (98 and 99).

(8) Remove spacer insulators (89 and 90) from screws (98 and 99).

(9) Tag and unsolder wires connected to switch section S3A (91). Lift switch section (91) from the hub of gear assembly (92) and screws (98 and 99).

(10) Slide gear assembly (92) from frequency-selector shaft (97) and remove spacer insulators (93) from screws (98 and 99).

(11) Remove frequency-selector shaft (97) from rear gear plate (19) and then remove retaining ring (95) and washer (96) from frequency-selector shaft (97).

k. Panel Light Receptacles and Front Gear Plate. If the radio control is being completely disassembled, begin with (4) below. If only the panel light receptacles are to be removed, begin with (1) below.

(1) Remove front panel (5) as instructed in *d* above.

(2) Remove nut (42) from switch S5 (44).

(3) Remove two screws (24) and two screws (36) from front gear plate (34).

(4) Remove screws (100 through 103) that secure support members (104 through 107) to front gear plate (34).

(5) Remove screws (107A, 109, 111, and 113 and washers 108, 110, 112, and 114) from front gear plate (34).

(6) Pull front gear plate (34) away from chassis until solder terminals on lamp receptacles (115, 116, and 117) are accessible.

(7) Tag and unsolder *wires* connected to each lamp receptacle. Remove front gear plate (34) from radio control.

(8) Remove nuts (118) and washers (119) from lamp receptacles (115 and 116) and nut (120) from lamp receptacle (117). Pull the lamp receptacles out through the holes in front gear plate (34).

1. VHF COMM Detent Wheels. If the radio control is being completely disassembled, begin with (4) below. If only the detent wheels are being removed, begin with (1) below.

(1) Remove front panel (5) *d* above.

(2) Remove nut (42) from switch S5 (44).

(3) Remove front gear plate (34) as instructed in *k* (3) through (7) above.

(4) Slide spur gear (121) and insulator (122) from gear shaft (129), and spur gear (130) and insulator (131) from gear shaft (139).

(5) Loosen two setscrews in helical gears (123 and 132) and slide the gears from shafts (129 and 139).

(6) Detach helical extension spring (145) from detent arm (150) and loosen the two setscrews in detent wheel (124).

(7) Slide detent wheel (124) and flat washer (125) from gear shaft (129).

(8) Loosen two setscrews in gear assembly (128) and pull gear shaft (129) from the front of the radio control until gear assembly (128) and flat washers (126 and 127) are free from gear shaft (129).

(9) Pull gearshaft (129) from rear gear plate (14).

(10) Loosen the two setscrews in detent wheel (133) and slide the detent wheel and washer (134) from gear shaft (139).

(11) Loosen the setscrews in cam (137).

Note. Step (12) is unnecessary if the radio control is being completely disassembled.

(12) Loosen two setscrews in gear assembly (138) and pull gear shaft (139) from the front of the radio control until the gear assembly is free from gear shaft (139).

(13) Slide cam (137), stop washers (136); and washers (135) from gear shaft (139).

(14) Pull gear shaft (139) from rear gear plate (14).

(15) Remove screw (146), washers (147 and 148), and sleeve spacer (149) to remove detent arm (150) from rear gear plate (14).

(16) Remove screw (140), washers (141 and 142), and sleeve spacer (143) to remove detent arm (144) from rear gear plate (14). Detach helical extension spring (145) from detent arm (144).

m. Switch Sections S1A, S1B, S2A, and S2B. If the radio control is to be completely disassembled, begin with (3) below. If only the switch sections are to be removed, begin with (1) below.

(1) Make sure that the front panel VHF COMM frequency-selector knobs have been set to 116.000. Remove four screws (45) and lockwashers (46) from rear plate (47).

(2) Pull rear plate (47) away from the radio control.

(3) Remove nuts (55) and Iockwashers (56) from screws (78 and 79) and lift plate (57) from frequency-selector shaft (77), gear shaft (139), and screws (78and 79).

(4) Slide washers (58 and 59) from frequency-selector shaft (77) and spacer insulators (60) from screws (78 and 79).

(5) Tag and unsolder wires connected to switch section S2B (61). Lift switch section (61) from the hub of gear assembly (64) and screws (78 and 79).

(6) Remove spacer insulators (62) from screws (78 and 79).

(7) Tag and unsolder the wires connected to switch section S2A (63). Lift switch section (63) from the hub of gear assembly (64).

(8) Slide gear assembly (64) and washers (67) from screws (78 and 79).

(9) Loosen the two setscrews in gear assembly (138) and slide the gear assembly from gear shaft (139).

(10) Tag and unsolder the wires connected to switch section S1B (69). Lift switch section (69) from the hub of gear assembly (72).

(11) Remove spacer insulators (70) from screws (78 and 79).

(12) Tag and unsolder the wires connected to switch sections S1A (71). Lift switch section (71) from the hub of gear assembly (72) and screws (78 and 79),

(13) Slide gear assembly (72) from frequency-selector shaft (77) and remove spacer insulators (73) from screws (78 and 79).

(14) Remove frequency-selector shaft (77) from rear gear plate (14) and then remove retaining ring (75) and washer (76) from shaft (77).

n. VHF NAV Detent Wheels. If the radio control is being completely disassembled, begin with (4) below. If only the detent wheels are being removed, begin with (1) below.

(1) Remove f rent panel (5) as instructed in *d* above.

(2) Remove nut (42) from switch S5 (44).

(3) Remove front gear plate (34) as instructed in *k* (3) through (7) above.

(4) Slide spur gear (151) and insulator (152) from gear shaft (158).

(5) Loosen two setscrews in helical gears (153 and 159) and slide the gears from gear shafts (158 and 165).

(6) Detach helical extension spring (171) from detent arm (170) and loosen the two setscrews in detent wheel (154).

(7) Slide detent wheel (154) and washer (155) from gear shaft (158).

(8) Loosen the two setscrews in the hub of gear assembly (157) and slide the gear assembly and washer (156) from gear shaft (158).

(9) Pull gear shaft (158) out through the mounting hole in rear gear plate (19).

(10) Loosen the two setscrews in detent wheel (160) and slide the detent wheel and washer (161) from gear shaft (165).

(11) Loosen the two setscrews in the hub of gear assembly (164) and slide the gear assembly and washers (162 and 163) from gear shaft (165).

(12) Pull gear shaft (165) out through the mounting hole in rear gear plate (19).

(13) Remove screw (166), washers (167 and 168), and sleeve spacer (169) to remove detent arm (170) from rear gear plate (19).

(14) Remove screw (172), washers (173 and 174), and sleeve spacer (175) to remove detent arm (176) from rear gear plate (19). Detach helical extension spring (171) from detent arm (176).

o. Switch Sections S3A, S4A, and S4B. If the radio control is being completely disassembled, begin with (3) below. If only the switch sections are to be removed, begin with (1) below.

(1) Make sure that the front panel VHF NAV frequency-selector knobs have been set to 108.000. Remove four screws (45) and lockwashers (46) from rear plate (47).

(2) Pull rear plate (47) away from the radio control.

(3) Remove nuts (80) and lockwashers (81) from screws (98 and 99) and lift plate (82) from frequency-selector shaft (97) and screws (98 and 99).

(4) Slide washers (83) from frequency-selector shaft (97) and spacer insulators (84) from screws (98 and 99).

(5) Tag and unsolder wires connected to switch section S4B (85). Lift switch section from the hub of gear assembly (92) and screws (98 and 99).

(6) Remove spacer insulators (86 and 87) from screws (98 and 99).

(7) Tag and unsolder wires connected to switch section S4A (88). Lift switch section (88) from the hub of gear assembly (92) and screws (98 and 99).

(8) Remove spacer insulators (89 and 90) from screws (98 and 99).

(9) Tag and unsolder wires connected to switch section S3A (91). Lift switch section (91) from the hub of gear assembly (92) and screws (98 and 99).

(10) Remove two setscrews from gear assembly (157) and slide gear assembly (157) and washer (156) from gear shaft (158).

(11) Remove two setscrews from gear assembly (164) and slide gear assembly (164) and washers (162 and 163) from gear shaft (165).

(12) Slide gear assembly (92) from frequency-selector shaft (97) and remove spacer insulators (93) from screws (98 and 99).

(13) Remove frequency-selector shaft (97) from rear gear plate (19) and then remove retaining ring (95) and washer (96) from frequency-selector shaft (97).

p. VHF COMM Frequency Dials. If the radio control is being completely disassembled, begin with (4) below. If only the frequency dials are being removed, begin with (1) below.

(1) Remove f rent panel (5) as instructed in *d* above.

(2) Remove nut (42) from switch S5 (44).

(3) Remove front gear plate (34) as instructed in *k* (3) through (7) above.

(4) Remove screw (177), washer (178), screw (179), and stop plate (180) from rear gear plate (14).

(5) Remove two screws (181), washers (182), and terminal lug (183) from rear gear plate (14). Carefully lift frequency dials, with gear plates (184 and 185) attached, from the radio control.

(6) Remove two screws (186) that secure segment dial (188) to gear plate (185). Remove the segment dial and sleeve spacers (187) from gear plate (185).

(7) Remove two screws (189) and flat washers (190) that secure detent plate (191)

to gear plate (185). Remove the detent plate and ball bearings (194 and 197).

(8) Remove two screws (198) and flat washers (199) that secure detent plate (200) to gear plate (184). Remove the detent plate and ball bearings (203 and 206).

(9) Remove retaining rings (207 and 208) from the ends of dial support shaft (209).

(10) Remove gear plates (184 and 185) from dial support shaft (209). Slide gear assemblies (210 and 212) and washer (211) from dial support shaft (209).

(11) Loosen the setscrew behind the gear plate (184) and pull flanged hub (213), with pinion gear (214) attached, from the gear plate. Remove pinion gear (214) from flanged hub (213).

(12) Loosen the setscrew in the bottom of gear plate (184) and pull flanged hub (215), with helix gear (216) and washer (217) attached, from the gear plate. Remove helix gear (216) and washer (217) from flanged hub (215).

(13) Loosen the setscrew behind the gear plate (185) and pull flanged hub (218), with pinion gear (219) and washer (220) attached, from the gear plate. Remove pinion gear (219) and washer (220) from flanged hub (218).

(14) Loosen the setscrew in the bottom of gear plate (185) and pull flanged hub (221), with helix gear (222) and washer (223) attached, from the gear plate. Remove helix gear (222) and washer (223) from flanged hub (221).

q. VHF NAV Frequency Dials. If the radio control is being completely disassembled, begin with (4) below. If only the frequency dials are being replaced, begin with (1) below.

(1) Remove front panel (5) as instructed in *d* above.

(2) Remove nut (42) from switch S5 (44).

(3) Remove front gear plate (34) as instructed in *k* (3) through (7) above.

(4) Remove screw (224), washer (225), terminal lug (226), and screw (227) from rear gear plate (19).

(5) Remove two screws (229), washers (230), and stop plate (228) from rear gear plate (19). Carefully lift frequency dials, with gear plates (231 and 232) attached, from the radio control.

(6) Remove two screws that secure segment dial (235) to gear plate (232). Remove segment dial (235) and sleeve spacers (234) from gear plate (232).

(7) Remove two screws (234A) and flat washers (235A) that secure detent plate (236) to gear plate (232). Remove the detent plate and ball bearings (239 and 242).

(8) Remove two screws (243) and flat washers (244) that secure detent plate (245) to gear plate (231). Remove the detent plate and ball bearings (248 and 251).

(9) Remove retaining rings (252 and 253) from the ends of dial support shaft (254).

(10) Remove gear plates (231 and 232) from dial support shaft (254). Slide dial assemblies (255 and 257) and washer (256) from dial support shaft (254).

(11) Loosen the setscrew behind the gear plate (231) and pull flanged hub (258), with pinion gear (259) attached, from the gear plate. Remove pinion gear (259) from flanged hub (258).

(12) Loosen the setscrew in the bottom of gear plate (231) and pull flanged hub (260), with helix gear (261) and washer (262) attached, from the gear plate. Remove washer (262) and helix gear (261) from flanged hub (260).

(13) Loosen the setscrew behind the gear plate (232) and pull flanged hub (263), with pinion gear (264) and washer (265) attached, from the gear plate. Remove washer (265) and pinion gear (264) from flanged hub (263).

(14) Loosen the setscrew in the bottom of gear plate (232) and pull flanged hub (266), with helix gear (267) and washer (268) attached, from the gear plate. Remove washer (268) and helix gear (267) from flanged hub (266).

3–3. Assembly of Radio Control

(fig. 5-4)

Refer to the color coding and lead dress noted

during disassembly, and replace leads or wires that were unsoldered with composition SN60 solder. Liquid-stake the threads of all non-locked screws with blue varnish. If the radio control is completely disassembled, perform the assembly procedures in the order listed. If the radio control is not completely disassembled, perform only the assembly procedure for the components that have been removed.

a. *VHF NAV Frequency Dials.*

(1) Place pinion gear (259) on flanged hub (258) and insert the hub into gear plate (231). Tighten setscrew at the rear of the gear plate.

(2) Slide helix gear (261) and washer (262) onto flanged hub (260) and insert the hub into gear plate (231). Tighten the setscrew at the bottom of the gear plate.

(3) Place pinion gear (264) and washer (265) on flanged hub (263) and insert the hub into gear plate (232). Tighten the setscrew at the rear of the gear plate.

(4) Slide helix gear (267) and washer (268) on flanged hub (266) and insert the hub into gear plate (232). Tighten the setscrew at the bottom of the gear plate.

(5) Place retaining ring (252) on dial support shaft (254).

(6) Rotate the frequency dials on dial assembly (257) until digits 00 are aligned. While holding the frequency dials in the 00 position, engage the gears on dial assembly (257) with pinion gear (259) and helix gear (261) on gear plate (231) so that aligned digits 00 f ace to the front.

Note. Insure that the gears on the dial assembly and gear plate mesh and that digits 00 remain aligned for correct timing.

(7) With digits 00 aligned, insert dial support shaft (254) through gear plate (231) and dial assembly (257) until retaining ring (252) is seated against gear plate (231). Slide washer (256) onto dial support shaft (254) and carefully set the assembled gear plate and dial assembly on the bench so that the gear teeth remain meshed and digits 00 are aligned.

(8) Rotate the frequency dials on dial assembly (255) until digits 08 are aligned. While holding the frequency dials in the 08 position, engage the gears on dial assembly (255) with pinion gear (264) and helix gear (267) on gear plate (232).

Note. Insure that the gears on the dial assembly and gear plate mesh and that digits 08 remain aligned for correct timing.

(9) With digits 08 aligned, slide dial assembly (255) and gear plate (232) onto dial support shafts (254) so that digits 08 face to the front and are aligned with digits 00 on dial assembly (257). Place retaining ring (253) on dial support shaft (254).

(10) Mount segment dial (235) on gear plate (232) using two sleeve spacers (234) and screws (233). See that digits 108.00 are aligned on the frequency dials.

(11) Attach detent plate (245) to gear plate (231) using two flat washers (244) and screws (243).

(12) Loosen screw (246) and position detent spring (247) clear of ball bearing mounting hole. Insert ball bearing (248) into mounting hole, position detent spring (247) over hole, and tighten screw (246).

(13) Loosen screw (249) and position detent spring (250) clear of ball bearing mounting hole. Insert ball bearing (251) into mounting hole, position detent spring (250) over hole, and tighten screw (249).

(14) Mount detent plate (236) on gear plate (232) using two flat washers (235A) and screws (234A).

(15) Loosen screw (240) and position detent spring (241) clear of ball bearing mounting hole. Insert ball bearing (242) into mounting hole, position detent spring (241) over hole, and tighten screw (240).

(16) Loosen screw (237) and position detent spring (238) clear of ball bearing mounting hole. Insert ball bearing (239) into mounting hole, position detent spring (238) over hole, and tighten screw (237).

(17) Attach gear plates (231 and 232), with frequency dials attached, and stop plate (228) to rear gear plate (19), using screw (224), washer (225), terminal lug (226), screw (227), two screws (229), and two washers (230).

Note. The procedure given in (18), (19), and (20) below should be performed only if the frequency dials alone are being replaced.

(18) Replace front gear plate (34) as instructed in *g* below.

(19) Mount switch S5 (44) on front gear plate (34) using nut (42).

(20) Replace front panel as instructed in *l* below.

b. VHF COMM Frequency Dials.

(1) Place pinion gear (214) on flanged hub (213) and insert the hub into gear plate (184). Tighten setscrew at the rear of the gear plate.

(2) Slide helix gear (216) and washer (217) onto flanged hub (215) and insert the hub into gear plate (184). Tighten setscrew at the bottom of the gear plate.

(3) Place pinion gear (219) and washer (220) on flanged hub (218) and insert the hub into gear plate (185). Tighten setscrew at rear of the gear plate.

(4) Slide helix gear (222) and washer (223) onto flanged hub (221) and insert the hub into gear plate (185). Tighten setscrew at the bottom of the gear plate.

(5) Place retaining ring (207) on dial support shaft (209).

(6) Rotate the frequency dials on gear assembly (212) until digits 000 are aligned. While holding the frequency dials in the 000 position, engage the gears on gear assembly (212) with pinion (214) and helix gear (216) on gear plate (184) so that aligned digits 000 face to the front.

Note. Insure that the gears on the gear assembly and gear plate mesh and that digits 000 remain aligned for correct timing.

(7) With digits 000 aligned, insert dial support shaft (209) through gear plate (184) and gear assembly (212) until retaining ring (207) is seated against gear plate (184). Slide washer (211) onto dial support shaft (209) and carefully set the assembled gear plate and gear assembly on the bench so that the gear teeth remain meshed and digits 000 are aligned.

(8) Rotate the frequency dials on gear assembly (210) until digits 16 are aligned. While holding the frequency dials in the 16 position, engage the gears on dial aasembly (210) with pinion gear (219) and helix (222) on gear plate (185).

Note. Insure that the gears on the gear assembly and gear plate mesh and that digits 16 remain aligned for correct timing.

(9) With digits 16 aligned, slide dial assembly (210) and gear plate (185) onto dial support shaft (209) so that digits 16 face to the front and are aligned with digits 000 on gear assembly (212). Place retaining ring (208) on dial support shaft (209).

(10) Mount segment dial (188) to gear plate (185), using two sleeve spacers (187) and screws (186). See that digits 116.000 are aligned on the frequency dials.

(11) Attach detent plate (200) on gear plate (184), using two flat washers (199) and screws (198).

(12) Loosen screw (204) and position detent spring (205) clear of ball bearing mounting hole. Insert ball bearing (206) into mounting hole, position detent spring (205) over hole, and tighten screw (204).

(13) Loosen screw (201) and position detent spring (202) clear of ball bearing mounting hole. Insert ball bearing (203) into mounting hole, position detent spring (202) over hole, and tighten screw (201).

(14) Mount detent plate (191) on gear plate (185), using two flat washers (190) and screws (189).

(15) Loosen screw (195) and position detent spring (196) clear of ball bearing mounting hole. Insert ball bearing (197) into hole, position detent spring (196) over hole, and tighten screw (195).

(16) Loosen screw (192) and position detent spring (193) clear of ball bearing mounting hole. Insert ball bearing (194) into mounting hole, position detent spring (193) over hole, and tighten screw (192).

(17) Attach gear plates (184 and 185), with frequency dials attached, and stop plate (180) to rear gear plate (14), using screw (177), washer (178), screw (179), terminal lug (183), two washers (182), and two screws (181).

Note. The procedure given in (18), (19), and (20) below should be performed only if the frequency dials alone are being replaced.

(18) Replace front gear plate (34) as instructed in *g* below.

(19) Mount switch S5 (44) to front gear plate (34), using nut (42).

(20) Replace front panel as instructed in *l* below.

c. Switch Sections S3A, S4A, and S4B.

(1) Place retaining ring (95) on frequency-selector shaft (97) and then slide washer (96) onto the shaft.

(2) Insert frequency-selector shaft (97) into the hole in the center of rear gear plate (19).

(3) If only switch sections are being replaced, loosen the two setscrews in gear assemblies (157 and 164) and make sure that the gears move freely on their shafts,

(4) Place gear assembly (92) on frequency-selector shaft (97). When only switch sections are being replaced, make sure that spur gear (92A) meshes with gear assembly (157) and spur gear (92B) meshes with gear assembly (164).

Note. When rotating spur gear (92A) ((5) below), observe that the gear does not strike mounting nuts on screws (98 and 99). If spur gear (92A) does strike the nuts, slightly reposition nuts to provide the proper clearance.

(5) View rear gear plate (19) from the rear and rotate spur gear (92A) counterclockwise until the stop on the gear face is positioned against stop plate (228). Rotate spur gear (92B) until the flatted sides of the hub on gear assembly (92) are aligned. When only switch sections are being replaced, tighten the setscrews in gear assemblies (157 and 164).

(6) Place spacer insulators (93) on screws (98 and 99).

(7) Position the rotor segment of switch section S3A (91) so that the front moving contacts are made with fixed contacts 10 and 18 and so that the rear moving contacts are made with fixed contacts 7, 30, and 36.

(8) View rear gear plate (19) from the rear. Align the flats of the shaft hole in switch section (91) with the flats on the hubs of gear assembly (92) so that when the switch section is mounted, fixed contact 18 will be positioned directly above screw (98). Slide the switch section onto the hubs of gear assembly (92) with screws (98 and 99) passing through the holes in the sides of the switch section. Solder wires to the switch section as coded in disassembly. Replace wiring if necessary.

(9) Place spacer insulators (90 and 89) on screws (98 and 99).

(10) Position the rotor segment of switch section S4A (88) so that the front moving contacts are made with fixed contacts 10 and 11 and so that the rear moving contacts are made with fixed contacts 3 and 12.

(11) View rear gear plate (19) from the rear. Align the flats of the shaft hole in switch section (88) with the flats on the hubs of gear assembly (92) so that when the switch section is mounted, fixed contact 10 will be positioned directly above screw (98). Slide the switch section onto the hubs of gear assembly (92) with screws (98 and 99) passing through the holes in the sides of the switch section. Solder wires to the switch section as coded in disassembly. Replace wiring if necessary.

(12) Place spacer insulators (86 and 87) on screws (98 and 99).

(13) Position the rotor segment of switch section S4B (85) so that the front moving contact is made with fixed contacts 1 and 19 and so that the rear moving contact is made with fixed contact 10.

(14) View rear gear plate (19) from the rear. Align the flats of the shaft hole in switch section (85) with the flats on the hubs of gear assembly (92) so that when the switch section is mounted, fixed contact 10 will be positioned directly above screw (98). Slide the switch section onto the hubs of gear assembly (92) with screws (98 and 99) passing through the holes in the sides of the switch section. Solder the wires to the switch section as coded in disassembly. Replace wiring if necessary.

(15) Place spacer insulators (84) on screws (98 and 99) and slide washers (83) onto shaft (97) .

(16) Mount retaining plate (82) on frequency-selector shaft (97) with screws (98 and 99) passing through the holes in the ends

of the plate. Secure the plate with lockwashers (81) and nuts (80).

Note. Perform the procedure given in (17) below only if switch sections are being replaced.

(17) Attach rear plate (47) to the rear of the radio control, using lockwashers (46) and screws (45).

d. Switch Sections S1A, SIB, S2A, and S2B.

(1) Place retaining ring (75) on frequency-selector shaft (77) and then slide washer (76) onto the shaft.

(2) Insert frequency-selector shaft (77) into the hole in the center of rear gear plate (14).

(3) Align the timing holes in composite gear (72A) and spur (72B) on gear assembly (72).

(4) If only switch sections are being replaced, slide gear assembly (72) onto frequency-selector shaft (77) so that the timing holes in the gear assembly are directly opposite to, and aligned with, the timing dimple punched in gear assembly (128).

(5) If the radio control is being completely reassembled, slide gear assembly (72) onto frequency-selector shaft (77) so that the timing holes in the gear assembly are bisected by an imaginary line drawn between hole A and shaft (77).

(6) Observe that there is ample clearance between the teeth of gear assembly (72) and the mounting nuts on screws (78 and 79).

(7) Place spacer insulators (73) on screws (78 and 79).

(8) Position the rotor segment of switch section S1A (71) so that the front moving contacts are made with fixed contact 5 and so that the rear moving contacts are made with fixed contacts 3 and 11.

(9) View rear gear plate (14) from the rear. Align the flats of the shaft hole in switch section (71) with the flats on the hub of gear assembly (72) so that when the switch section is mounted, fixed contact 10 will be positioned directly above screw (78). Slide the switch section onto the hubs of gear assembly (72) with screws (78 and 79) passing through the holes in the sides of the switch section. Solder wires to the switch section as coded during disassembly. Replace wiring if necessary.

(10) Place spacer insulators (70) on screws (78 and 79).

(11) Position the rotor segment of switch section SIB (69) so that the front moving contacts are made with fixed contacts 2 and 11 and so that the rear moving contacts are made with fixed contact 7.

(12) View rear gear plate (14) from the rear. Align the flats of the shaft hole in switch sect ion (69) with the flats on the hubs of gear assembly (72) so that when the switch section is mounted, fixed contact 10 will be positioned directly above screw (78). Slide the switch section onto the hubs of gear assembly (72) with screws (78 and 79) passing through the holes in the sides of the switch section. Solder wires to the switch section as coded in disassembly. Replace wiring if required.

(13) Slide washers (67 and 68) onto frequency-selector shaft (77) and place spacer insulators (66 and 65) on screws (78 and 79).

(14) Align the timing holes in driving gear (64A) and spur gear (64B) on gear assembly (64).

(15) If only the switch sections are being replaced, slide gear assembly (64) onto frequency-selector shaft (77) so that the timing holes in the gear assembly are bisected by an imaginary line drawn between the center of gear shaft (139) and frequency-selector shaft (77). Position gear assembly (138) on gear shaft (139) so that the timing dimple punched in the rear face of the tooth projection of gear assembly (138) is directly opposite to, and is aligned with, the timing holes in gear assembly (64). Tighten setscrews in gear assembly (138).

(16) If the radio control is being completely reassembled, slide gear assembly (64) onto frequency-selector shaft (77) so that the timing holes in the gear assembly are bisected by an imaginary line drawn between hole B and shaft (77).

(17) Position the rotor segment of switch section S2A (63) so that the front moving contacts are made with fixed contact 6 and so that the rear moving contact is made with fixed contacts 1 and 12.

(18) View rear gear plate (14) from the rear. Align the flats of the shaft hole in switch section (63) with the flats of the hubs on gear assembly (64) so that when the switch section is mounted, fixed contact 10 will be positioned directly above screw (78). Slide the switch section onto the hubs of gear assembly (64) with screws (78 and 79) passing through the holes in the sides of the switch section. Solder wires to the switch section as coded in disassembly. Replace wiring if required.

(19) Place spacer insulators (62) on screws (78 and 79).

(20) Position that rotor segment of switch section S2B (61) so that the front moving contact is made with fixed contacts 10 and 11 and so that the rear moving contact is made with fixed contact 5.

(21) View rear gear plate (14) from the rear. Align the flats of the shaft hole in switch section (61) with the flats on the hubs of gear assembly (64) so that when the switch section is mounted, fixed contact 10 will be positioned directly above screw (78). Then slide the switch section onto the hubs of gear assembly (64) with screws (78 and 79) passing through the holes in the sides of the. switch section. Solder wires to the switch section as coded in disassembly. Replace wiring if necessary.

(22) Place spacer insulators (60) on screws (78 and 79) and washers (59 and 58) on frequency-selector shaft (77).

(23) Mount plate (57) on frequency-selector shaft (77) with screws (78 and 79) passing through the holes in the ends of the plate. Secure the plate with lockwashers (56) and nuts (55).

Note. The procedure given in (24) below is necessary only when switch sections are being replaced.

(24) Attach rear plate (47) to the rear of the radio control, using lockwashers (46) and screws (45).

e. VHF NAV Detent Wheels.

(1) Mount detent arm (170) on rear gear plate (19), using sleeve spacer (169), washers (167 and 168), and screw (166).

(2) Mount detent arm (176) on rear gear plate (19), using sleeve spacer (175), washers (173 and 174), and screws (172).

(3) Attach helical extension spring (171) to detent arms (170 and 176).

(4) Slide detent wheel (154) and washer (155) over the plain end of gear shaft (158). Position the wheel and washer approximately 1/16 inch from the plain end of the shaft.

(5) Position the plain end of the shaft against surface of rear gear plate (19) beside hole C so that the teeth of detent wheel (154) are meshed with the roller on detent arm (170). Push the detent wheel toward the center of the gear plate against the detent arm to align gear shaft (158) with hole C. Push gear shaft (158) through hole C until approximately 1/4 inch of the shaft extends from the rear of the gear plate.

(6) Place washer (156) over end of gear shaft (158). While holding spur gear (92A) of gear assembly (92) so that its stop is seated against stop plate (228), slide gear assembly (157) over end of gear shaft (158) and mesh its teeth with the teeth of spur gear (92A) on gear assembly (92).

(7) Hold gear assembly (157) firmly against rear gear plate (19) and position gear shaft (158) so that its end is flush with the end of the hub on gear assembly (157). Tighten the setscrews in the hub of gear assembly (157) and in the hub of detent wheel (154).

(8) Slide helical gear (153) over the recessed end of gear shaft (158) until its teeth mesh with the teeth of helix gear (267). Do not tighten the setscrews in the hub of helical gear (153) at this time. Instructions for tightening the setscrews are given in *g* below.

(9) Place spacer insulator (152) and spur gear (151) on gear shaft (158).

(10) Slide detent wheel (160) and washer (161) over the end of gear shaft (165). Position the detent wheel and the washer approximately 1/16 inch from the end of the shaft,

(11) Position the end of the shaft against the surface of rear gear plate (19) beside hole so that the teeth of detent wheel (160) are meshed with the roller on detent arm (176). Push the detent wheel toward the center of the gear plate against the detent arm to align gear shaft (165) with hole D. Push gear shaft (165) through hole D until approximately 3/8

inch of the shaft extends from the rear of gear plate (19).

(12) Place two washers (162 and 163) over the end of gear shaft (165). While holding spur gear (92B) of gear assembly (92) so that it does not move, slide gear assembly (164) over the end of gear shaft (165) and mesh its teeth with the teeth of spur gear (92 B).

(13) Hole gear assembly (164) firmly against rear gear plate (19) and position gear shaft (165) so that its end is flush with the face of gear assembly (164). Tighten the setscrews in the hub of gear assembly (164) and in detent wheel (160).

(14) Slide helical gear (159) over the end of gear shaft (165) and mesh its teeth with the teeth of helix gear (261). Do not tighten the setscrews in the hub of helical gear (159) at this time. Instructions for tightening the setscrews are given in g below.

Note. The procedure given in (15), (16), and (17) below should be performed only if the detent wheels are being replaced.

(15) Replace front gear plate (34) as directed in g below.

(16) Mount switch S5 (44) on front gear plate (34), using nut (42).

(17) Replace f rent panel (5) as directed in *l* below.

f. VHF COMM Detent Wheels.

(1) Mount detent arm (144) on rear gear plate (14), using sleeve spacer (143), washers (142 and 141), and *screw* (140).

(2) Mount detent arm (150) on rear gear plate (14), using sleeve spacer (149), washers (147 and 148), and screw (146).

(3) Attach helical extension spring (145) to detent arms (144 and 150).

(4) Slide detent wheel (124) and flat washer (125) over the plain end of gear shaft (129).

(5) Position the end of the shaft against the front surface of rear gear plate (14) beside hole A so that the teeth of detent wheel (124) are meshed with the roller on detent arm (150). Push the detent wheel toward the center of the gear plate against the detent arm to align gear shaft (129) with hole A. Push gear shaft (129) through hole A until approximately 1/4 inch of the shaft extends from the rear of the gear plate.

(6) Place flat washers (126 and 127) on gear shaft (129).

(7) Pull gear shaft (129) back through hole A until the end of the shaft is flush with the face of flat washer (127).

(8) Make sure that the timing holes in gear assembly (72) are aligned and are bisected by an imaginary line drawn between gear shaft (129) and frequency-selector shaft (77). Mesh the teeth of gear assembly (128) with the teeth of spur gear (72B) on gear assembly (72) so that the timing dimple punched in its hub is bisected by the imaginary line drawn between gear shaft (129) and frequency-selector shaft (77). Push gear shaft (129) forward into gear assembly (128) until its end is flush with the end of the hub on the gear assembly. Tighten the setscrews in the hub of the gear assembly and in the hub of detent wheel (124).

(9) Slide helical gear (123) over the recessed end of gear shaft (129) and mesh its teeth with the teeth of helix gear (216). Do not tighten the setscrews in the hub of helical gear (123) at this time. Instructions for tightening the setscrews are given in *g* below.

(10) Place spacer insulator (122) and spur gear (121) on gear shaft (129).

(11) Slide detent wheel (133) and washer (134) over the plain end of gear shaft (139). Position the wheel and washer approximately 1/16 inch from the end of the shaft.

(12) Position the end of the shaft against the front surface of rear gear plate (14) beside hole B so that the teeth of detent wheel (133) are meshed with the roller on detent arm (144). Push the detent wheel toward the center of the gear plate against the detent arm to align gear shaft (139) with hole B. Push gear shaft (139) through hole B until approximately 1/4 inch of the shaft extends from the rear of the gear plate.

(13) Place three washers (135) and three stop washers (136) on gear shaft (139). Tabs on stop washers should be pointing forward.

(14) Pull gear shaft (139) back through hole B until the end of the shaft is flush with

the face of stop washer (136). Position cam (137) over the end of the shaft, with the cam stop facing forward, and push the shaft through the cam until approximately 1/4 inch of the shaft extends from the cam.

(15) Make sure that the timing holes in gear assembly (64) are aligned and are bisected by an imaginary line drawn between frequency-selector shaft (77) and gear shaft (139). Mesh the teeth of gear assembly (138) with the teeth of spur gear (64B) on gear assembly (64) so that the timing dimple punched in the rear face of the tooth projection of gear assembly (138) is bisected by the imaginary line drawn between frequency-selector shaft (77) and gear shaft (139). Push gear shaft (139) forward into gear assembly (138) until its end is flushed with the end of the hub on the gear assembly.

(16) Hold cam (137) firmly against stop washers (136) and tighten the setscrews in the cam. While viewing rear gear plate (14) from the front and making sure that gear assembly (138) does not turn, rotate gear shaft (139) counterclockwise until the tabs on washers (136) and the stop on cam (137) are aligned in the stopped position against the inner edge of stop plate (180).

(17) Tighten the setscrews in the hub of gear assembly (138) and in the hub of detent wheel (133). Make sure that the timing holes in gear assembly (64) and the timing dimple on gear assembly (138) are still bisected by an imaginary line drawn between shafts (77 and 139) .

(18) Slide helical gear (132) over the recessed end of gear shaft (139) and mesh its teeth with the teeth of helix gear (222). Do not tighten the setscrews in the hub of helical gear (132) at this time. Instructions for tightening the setscrews are given in g below.

(19) Place spacer insulator (131) and spur gear (130) on gear shaft (139).

Note. The procedure given in (20), (21), and (22) below should be performed only if the detent wheels are being replaced.

(20) Replace f rent gear plate (34) as instructed in *g* below.

(21) Mount switch S5 (44) on front gear plate (34), using nut (42).

(22) Replace front panel (5) as directed in 1 below.

g. Panel Light Receptacles and Front Gear Plate.

(1) Place lamp receptacles (115 and 116) in the proper holes in front gear plate (34) and secure with washers (119) and nuts (118).

(2) Mount lamp receptacle (117) in the proper hole in f rent gear plate (34) and secure with nut (120).

(3) Solder wires to lamp receptacles in accordance with tags attached during disassembly.

(4) Attach front gear plate (34) to gear plates (184, 185, 231, and 232) with washers (108, 110, 112, and 114) and screws (107A, 109, 111, and 113).

(5) Secure the f rent gear plate to lower support members (105) and (107) with screws (103 and 101). Do not attach gear plate to upper support members (104 and 106) at this time.

(6) View the VHF NAV frequency dials through the front gear plate and check for a frequency indication of 108.00.

(a) If the last two digits of the indicated number are 00, tighten the setscrews in helical gear (159). If digits other than 00 are observed, make sure that the setscrews in helical gear (159) are loose, and rotate the gear until the digits 00 are observed. Tighten the setscrews in the gear.

(b) If the second and third digits of the indicated number are 08, tighten the setscrews in helical gear (153). If digits other than 08 are observed, make sure that the setscrews in helical gear (153) are loose, and rotate the gear until the digits 08 are observed. Tighten the setscrews of the gear.

(c) If the bottom edges of digits 08 are not aligned with the bottom edge of digit 1, loosen screws (234A) in detent plate (236) and adjust the plate until the bottom edges of the numbers are aligned. Retighten screws (234A).

(d) If the bottom edges of digits 00 are not aligned with the bottom edge of digits 108, loosen screws (243) in detent plate (245) and adjust the plate until the bottom edges of the

numbers are aligned. Retighten screws (243).

(7) View the VHF COMM frequency dials through the front gear plate and check for a frequency indication of 116.000.

(a) If the last three digits of the indicated number are 000, tighten the setscrews in helical gear (123). If digits other than 000 are observed, make sure that the setscrews in helical gear (123) are loose, and rotate the gear until digits 000 are observed. Tighten the setscrews in the gear.

(b) If the second and third digits of the indicated number are 16, tighten the setscrews in helical gear (132). If digits other than 16 are observed, make sure that the setscrews in helical gear (132) are loose, and rotate the gear" until the digits 16 are observed. Tighten the setscrews in the gear.

(c) If the bottom edges of digits 16 are not aligned with the bottom edge of digit 1, loosen screws (189) in detent plate (191) and adjust the plate until the bottom edges of the numbers are aligned. Retighten screws (189).

(d) If the bottom edges of digits 000 are not aligned with the bottom edges of digits 116, loosen screws (198) in detent plate (200) and adjust the plate until the bottom edges of the digits are aligned. Retighten screws (198).

(8) Secure front gear plate to upper support members (104 and 106) with screws (100 and 102).

Note. The procedure given in (9) through (12) below is necessary only if the front gear plate is being replaced.

(9) Mount mounting plate (23), with switch S6 (29) and VOL control R1 (33) attached, on front gear plate (34) ; use two screws (24) and standoff spacers (25). Switch S6 and control R1 should be adjusted fully counterclockwise from the front. Spur gears (26 and 30) should mesh with spur gears (130 and 121).

(10) Mount mounting plate (35), with switch S7 (41) attached on f rent gear plate (34) ; use two screws (36) and standoff spacers (37). Switch S7 should be adjusted fully counterclockwise from the front. Spur gear (38) should mesh with spur gear (151).

(11) Mount switch S5 (44) on front gear plate with nut (42).

(12) Attach front panel (5) to front gear plate as described in *l* below.

h. Connectors J1 and J2.

(1) Solder wires to J1 (52) and J2 (53) in accordance with tags attached during disassembly.

(2) Slide wires connected to J1 and J2 through slots in rear plate (47).

(3) Attach bracket (54) and connectors J1 and J2 to the rear plate with four screws (48 and 50) and nuts (49 and 51).

(4) Attach rear plate to support members (104 through 107) with four lockwashers (46) and screws (45).

i. Switch S5.

(1) Solder wires to switch S5 (44) in accordance with tags attached during disassembly.

(2) Attach switch S5 to front gear plate (34) with nut (42).

(3) If only switch S5 is being replaced, attach front panel as instructed in 1 below.

j. Switch S7.

(1) Slide shaft on switch S7 (41) through hole in left side of mounting plate (35). Secure with washer (40) and nut (39).

(2) Slide spur gear (38) onto shaft of switch S7 and tighten the setscrews in the hub of the gear.

(3) Solder wires to switch S7 in accordance with tags attached during disassembly.

(4) Rotate spur gear (38) to the full counterclockwise position.

(5) Mount mounting plate (35) to front gear plate (34) with two screws (36) and standoff spacers (37). Spur gear (38) should mesh with spur gear (151).

(6) If only switch S7 is being replaced, attach front panel as instructed in *l* below.

k. Switch S6 *and VOL Control R1.*

(1) Slide shaft on switch S6 (29) through hole in left side of mounting plate (23). Secure with washers (28) and nut (27).

(2) Place spur gear (26) on shaft of switch S6 and tighten the setscrews in the hub of the gear.

(3) Insert shaft on VOL control R1 (33)

through the hole in the right side of mounting plate (23). Secure with washer (32) and nuts (81).

(4) Place spur gear (30) on shaft of control RI and tighten the setscrews in the hub of the gear.

(6) Solder wires to switch S6 and control R1 as coded during disassembly.

(6) Rotate spur gears (26 and 30) to the full counterclockwise position.

(7) Mount mounting plate (23) to front gear plate (34) with two screws (24) and standoff spacers (25). Spur gears (26 and 30) should mesh with spur gears (130 and 121).

(8) If only switch S6 and control R1 are being replaced, attach front panel as instructed in *l* below.

l. Front Panel.

(1) Place front panel (5) on front gear plate (34) so that detent wheel shafts protrude through holes in front panel.

(2) With pointer on knob skirt pointing at OFF on front panel, slide knob (21) onto gear shaft (139) and tighten the setscrews in the knob.

(3) With pointer on knob skirt pointing at 10 o'clock, slide knob (21) onto gear shaft (129) and tighten setscrews in the knob.

(4) With pointer on knob skirt pointing at OFF on front panel, slide knob (21) onto gear shaft (158) and tighten the setscrews in the knob.

(5) Slide knob (22) onto gear shaft (165) and tighten the setscrews in the knob.

(6) Slide four knobs (20) onto the four shafts protruding through front panel and tighten the two setscrews in each knob.

(7) If only front panel is being replaced, mount front panel lamps as instructed in o below.

m. Frequency Dial Indicator Lamps.

(1) Insert two VHF NAV indicator lamps (18) into mounting holes in rear gear plate (19).

(2) Position retaining tabs (17) over base of lamps and tighten screws (16).

(3) Place cover (15) over each lamp.

(4) Insert two VHF COMM indicator lamps (13) into mounting holes in rear gear plate (14).

(5) Position retaining tabs (12) over lamp bases and tighten screws (11).

(6) Place cover (10) over each lamp.

n. Protective Covers.

(1) Mount bottom cover (9) on the bottom of the radio control with four screws (8).

(2) Mount top cover (7) on the top of the radio control with four screws (6).

o. *Front Panel Lamps.*

(1) Insert one panel lamp (4) into each of the three lamp receptacle caps (1).

(2) Screw lamp receptacle caps (1) into three mounting holes in front panel (5).

3–4. Cleaning

Cleaning procedures are identical with those in TM 11-6625-1635-12.

CHAPTER 4

GENERAL SUPPORT TESTING PROCEDURES

4–1. General

a. Testing procedures are prepared for use by Signal Field Maintenance Shops and Signal Service Organizations responsible for GS (general support) maintenance of electronics equipment to determine the acceptability of repaired electronics equipment. These procedures set forth specific requirements that repaired electronics equipment *must* meet before it is returned to the using organization. These procedures may also be used as a guide for testing electronics equipment repaired by direct support and organizational personnel if the proper tools and test equipments are available. A summary of the performance standards is given in paragraph 4-13.

b. Comply with the instructions preceding each chart before proceeding to the chart. Perform each step in sequence, Do not vary the sequence. For each step, perform all the action required in the *Control settings* columns; then perform each specific test procedure and verify it against it's performance standard.

4–2. Test Equipment Required

All test equipment and other equipment required to perform the testing procedures given in this chapter are listed in the following charts and are authorized under TA 11-17, Signal Field Maintenance Shops, and TA 11-100 (11-17), Allowances of Signal Corps Expendable Supplies for Signal Field Maintenance Shop, Continental United States.

a. Test Equipment.

Nomenclature	Federal stock No.	Technical manual
Generator, Signal AN/USM-44.	6625-539-9685	TM 11-6625-508-10
Generator, Signal AN/URM-127.	6625-783-5964	TM 11-6625-683-15
Wattmeter, Radio Frequency AN/URM-43A.	6625-557-0389	TM 11-5133
Multimeter TS-352B-U.	6625-242-5023	TM 11-6625-366-15

b. Other Equipment.

Equipment	Federal stock No.	Technical manual	Common names
Radio Set AN/ARC-134.	5821-072-6018	TM 11-5821-277-25-1	Radio Set
Power Supply PP-3931/FLR-9 (V), or equal.	6130-733-3638		Power supply
Power source: 5 volts, ac; Stancor Type P6467, or equal. (Unmodified equipment).		None	Ac power supply
Microphone M-52A/U. (Unmodified equipment).	5965-646-4678		Microphone
Headset H-216/U with Cord CD-307 (FSN 5995-553-0056). (Unmodified equipment).	5965-892-3353		Headset
Coaxial Adapter UG-201/U.		None	Adapter
Coaxial Connector UG-88/U (two required).		None	Connector
Capacitor, 50-µf, 25-vdc, Sprague Type TL1209, or equal.		None	Capacitor, 50-µf, 25-vdc
Coaxial Cable RG–58/U (as required).		None	Cable

4–3. Modification Work Orders

The performance standards listed in the tests (para 4-4 through 4-12) are based on the assumption that the modification work orders have been performed. A listing of current modification work orders will be found in DA Pam 310-7.

4–4. Physical Tests and Inspections

a. Test Equipment and Materials. None required.

b. Test Connections and Conditions..

(1) No connections necessary.

(2) Remove front and rear covers from maintenance kit.

c. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standard
1	None	Controls may be in any position.	*a.* Inspect CY-6207/ARC (equipment case) and test panel for damage, missing parts, and conditions of paint. *Note.* Touchup painting is recommended in lieu of refinishing whenever practical; screwheads, binding posts, plugs, receptacles, and other plated parts will not be painted or polished with abrasives. *b.* Inspect all cables wiring, resistors, and capacitors for breaks or bums. *c.* Inspect all controls and assemblies for loose or missing screws, bolts, and nuts. *d.* Inspect all connectors, plugs, jacks, receptacles, lamps, and indicators for looseness, damage, or missing parts. *e.* Inspect maintenance kit for missing items	*a.* No damage evident or parts missing. External surfaces intended to be painted will not show bare metal. Test panel lettering will be legible. *b.* No broken or bum damage evident. *c.* Screws, bolts, and nuts will be tight. No missing items. *d.* No loose parts or damage. No missing parts. e. No missing items.
2	None	Controls may be in any position.	*a.* Rotate all controls throughout their limits of travel. *b.* Inspect dial stops for proper operation. *c.* Operate all switches. *d.* Connect all plugs to their respective receptacle	*a.* Controls will rotate freely without binding or excessive looseness. *b.* stops will operate properly without evidence of damage. *c.* Switches will operate properly. *d.* All plugs will connect smoothly; no binding or forcing required.

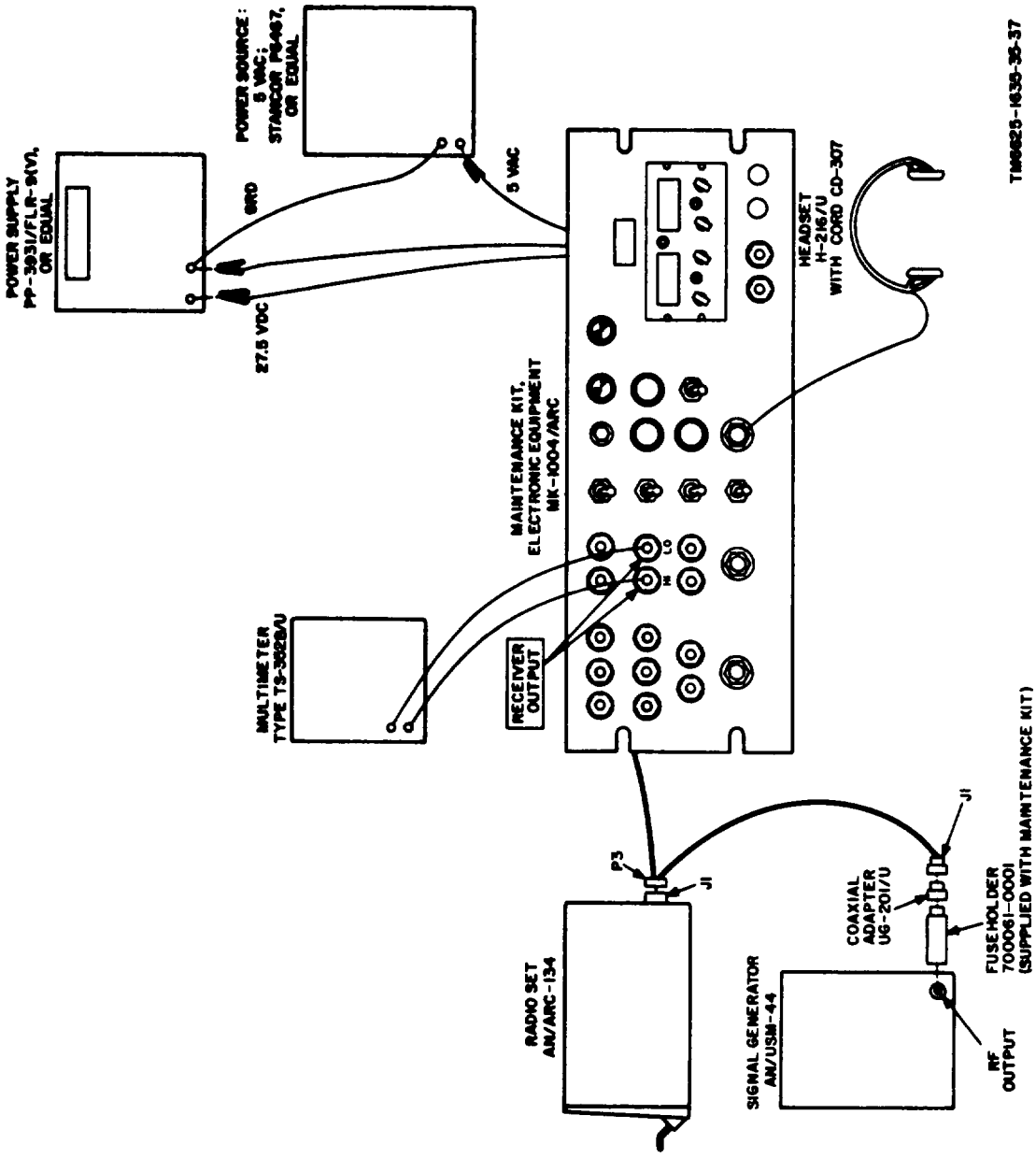


Figure 4–1. Receiver circuit test setup No. 1, unmodified maintenance kit.

4-5. Receiver Circuit Test No. 1

a. Test Equipment and Materials.

(1) Radio Set AN/ARC-134.

(2) Generator, Signal AN/USM-44.

(3) Power supply.

(4) Ac power source (unmodified equipment).

(5) Headset (unmodified equipment).

(6) Multimeter TS-352B/U.

(7) Adapter.

(8) Fuseholder 700061-0001 (part of MK-1004/ARC).

(9) 1/16-amp, 250-volt fuse 700061-0002 (part of MK-1004/ARC) .

b. Test Connections and Conditions. Connect the equipment as shown in figure 4-1 or 4-1.1. On modified equipment, place the C-1611D/AIC PVT-INT switch in position 3, the RECEIVERS 3 switch ON, all other RECEIVERS switches off, and position the VOL control as required. These settings must be maintained during the test.

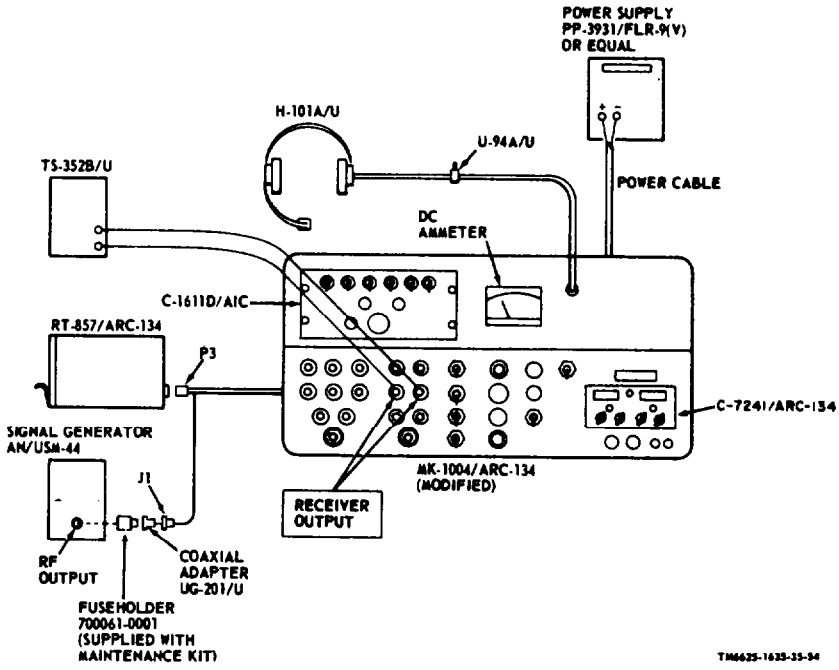
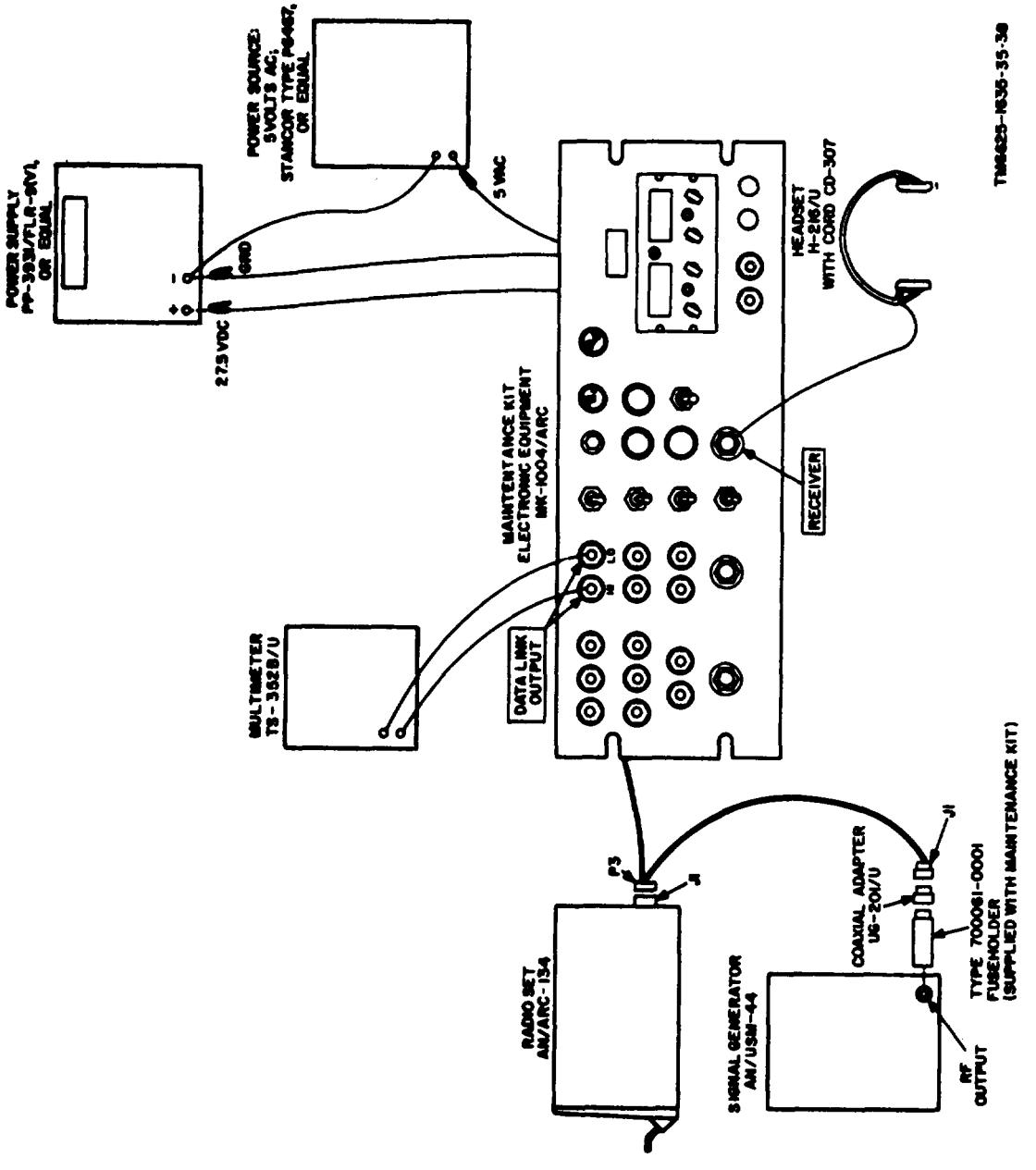


Figure 4-1.1. Receiver circuit test setup No. 1, modified maintenance kit.

c. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standards
1	AN/ARC-134 Set meter switch to LINE V. AN/USM-44 Set output level to zero. TS-352B/U a. Function: AC VOLTS. *b.* Range scale: 50 Vac.	*a.* Set all test panel switches to OFF. *b.* Set EXT SQUELCH CONT fully counterclockwise.	Apply primary operating power to test equipment and maintenance kit, and allow a few minutes warm-up period before proceeding.	None.
2	Leave controls in positions last indicated in step 1.	Leave controls in position last indicated in step 1.	**CAUTION** Be sure to connect the 700061-0001 fuseholder between the AN/USM-44 output receptacle and maintenance kit antenna connector J1 as shown in figure 4-1. The fuseholder must be equipped with a 700-061-0002 fuse (1/16-amp, 250-volt, normal blow). Do *not* set the test panel PTT switch to ON when the AN/USM–44 is connected to J1. Set maintenance kit POWER switch to ON.	*a.* Maintenance kit POWER indicator lamps must light. *b.* On modified equipment intercom control panel lamps must light.
3	Leave controls in positions last indicated in step 2.	Leave controls in position last indicated in step 2.	Set maintenance kit VHF COMM OFF-PWR switch to PWR.	*a.* Indicator lamps behind maintenance kit VHF COMM frequency counter dials must light. *b.* Meter on AN/ARC-134 must indicate 27.5 volts dc (-20 + 1070). c. On unmodified equipment the ammeter must indicate 2 to 3 amps.
4	AN/ARC-134 Leave controls in positions last indicated in step 1. AN/USM-44 a. Frequency: 132:500 MHz. b. Internal modulation: 90%. at 1,000 Hz.	Leave controls in positions last indicated in step 2.	Set maintenance kit VHF COMM frequency-selector switches to 132.500 MHz.	An output indication must be obtained on the TS-352B/U.

Step No.	Control settings		Test procedure	Performance standards
	Test equipment	Equipment under test		
	c. Output level: 6 μV. TS-352B/U Leave controls in positions last indicated in step 1.			



TM 6625-1635-35-38

Figure 4–2. Receiver circuit test setup No. 2, unmodified maintenance kit.

4-6. Receiver Circuit Test No. 2

a. Test Equipment and Material

(1) Radio Set AN/ARC-134.

(2) Generator, Signal AN/USM-44.

(3) Power supply.

(4) Ac power source (unmodified equipment).

(5) Headset (unmodified equipment).

(6) Multimeter TS-352B/U.

(7) Adapter.

(8) Fuseholder 700061-0001 (part of MK-1004/ARC).

(9) 1/16-amp, 250-volt fuse 700061-0002 (part of MK-1004/ARC).

b. Test Connections and Conditions. Connect the equipment as shown in figure 4-2 or 4-2.1. On modified equipment, place the C-1611D/AIC PVT-INT switch in position 3, the RECEIVERS 3 switch ON, all other RECEIVERS switches off, and position the VOL control as required. These settings must be maintained during the test.

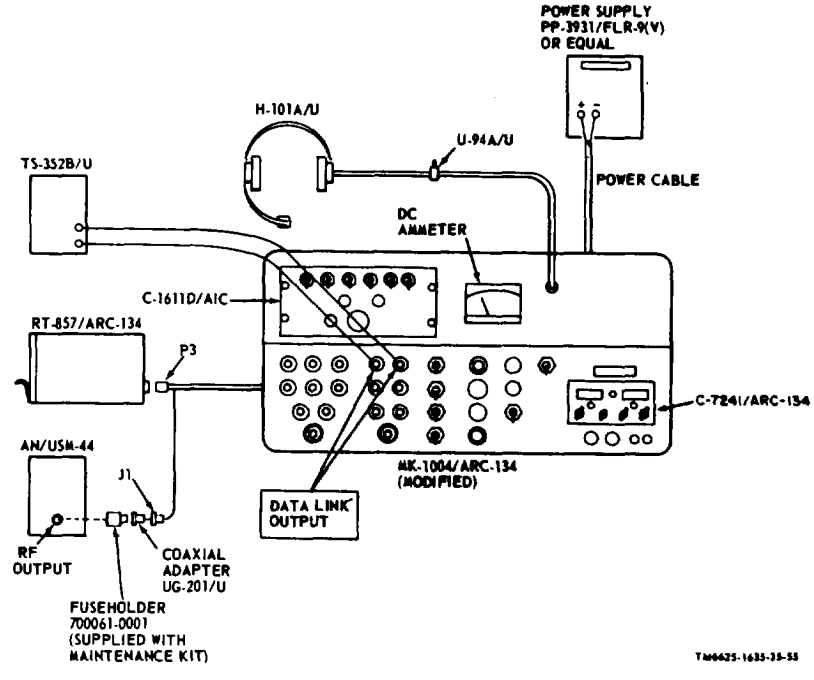


Figure 4-2.1. Receiver circuit test setup No. 2, modified maintenance kit.

c. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standards
1	AN/ARC-134 Set meter switch to LINE V AN/USM-44 *a.* Frequency: 132.500 MHz *b.* Internal modulation: 90% at 1,000 Hz. *c.* Output level: 6 uv TS–352B/U *a.* Function: AC VOLTS *b.* Range scale: 50 vac	Set all SB-3003 (P) / ARC switches to OFF, and set EXT. SQUELCH CONT. fully counterclockwise.	*a.* Apply primary operating power to test equipment and MK–1004/ARC, and allow a few minutes warmup period before proceeding. *Caution:* Be sure to connect the 700061-0001 fuseholder between the AN/USM-44 output receptacle and maintenance kit antenna connector J1 as shown in figure 4-2. The fuseholder must be equipped with a type 700061-0002 fuse (1/16-amp, 250-volt, normal blow) . Do not set the test panel PTT switch to ON when the AN/USM-44 is connected to J1. *b.* Set the maintenance kit POWER switch to ON, VHF COMM OFF-PWR switch to PWR, and VHF COMM frequency-selector switches to 132.500 MHz.	a. None. *b.* An output indication must be obtained on the TS–352B/U.
2	Leave control in position last indicated in step 1.	Leave controls in positions last indicated in step 1.	*a.* Set maintenance kit AUDIO switch to ON. *b.* Set EXT. SQUELCH CONT. switch to ON, and adjust EXT. SQUELCH CONT. until signal just disappears. Press maintenance kit COMM TEST switch. *c.* Release COMM TEST switch and set SQUELCH DISABLE switch to ON.	*a.* A signal should be heard in the headset. *b.* The signal should again be heard, indicating that the AN/ARC-134 squelch circuit is disabled. *c.* Same as *b* above.
3	AN/ARC–134 Leave control in position last indicated in step 1. AN/USM-44 a. Frequency: 132.500 MHz *b.* Internal modulation: 90'% at 1,000 Hz. c. Output level: 0 UV. TS-352B/U Leave controls in positions last indicated in step 1.	Leave controls in position last indicated in step 1.	*a.* Set the maintenance kit AUDIO switch to ON, SQUELCH DISABLE switch to OFF, and EXT. SQUELCH CONT. switch to ON. Slowly increase AN/USM–44 output until squelch opens as indicated by tone in headset. *b.* Set AN/USM-44 output to 0 uv, and adjust EXT. SQUELCH CONT. fully counterclockwise. Slowly increase AN/USM-44 output until squelch opens.	*a.* AN/USM44 output level should not be greater than 1 uv. *b.* AN/USM-44 output level should not be greater than 100 uv.

4	Leave control in position last indicated in step 1.	Leave controls in positions last indicated in step 1.	*a.* Set AUDIO switch to ON and EXT. SQUELCH CONT. switch to OFF. *b.* Set maintenance kit VHF COMM VOL control to its midposition, and adjust AN/USM–44 output to 3 uv. *c.* Set maintenance kit VHF COMM and AN/USM–44 frequency-selector switches to each of the following frequencies and check for proper frequency selection: 116.00 MHz, 126.00 MHz, 136.00 MHz, 146.00 MHz, 147.00 MHz, 148.00 MHz, 149.00 MHz, 140.00 MHz, 141.00 MHz, 142.00 MHz, 143.00 MHz, 144.00 MHz, 145.00 MHz, 145.10 MHz, 145.20 MHz, 145.30 MHz, 145.40 MHz, 145.50 MHz, 145.60 MHz, 145.70 MHz, 145.80 MHz, 145.90 MHz, and 145.95 MHz.	Tone must be heard in headset at each respective frequency.

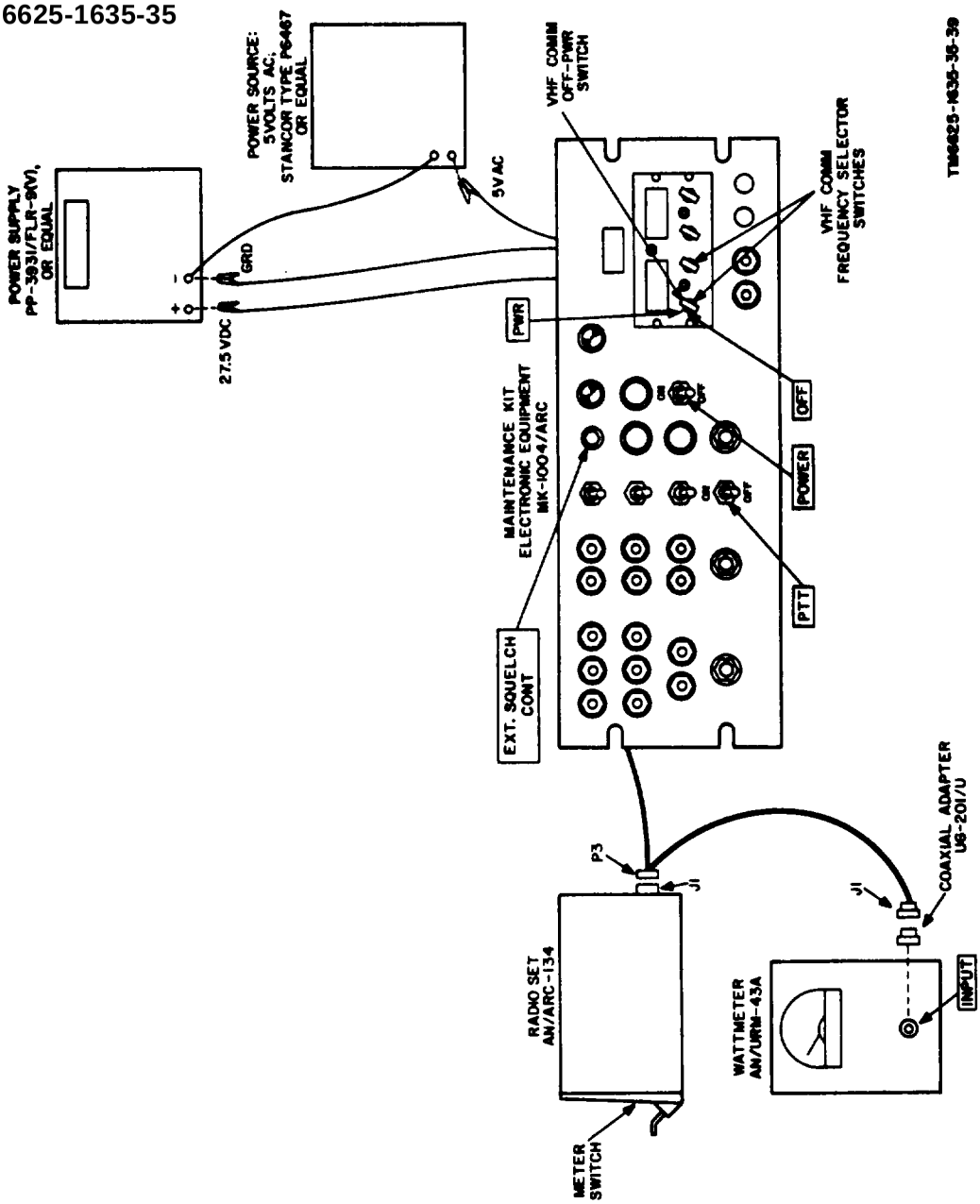


Figure 4-3. Transmitter output and control circuit check. test setup, unmodified maintenance kit.

4-7. Transmitter Output and Control Circuit Test

a. Test Equipment and Material.

(1) Radio Set AN/ARC-134.

(2) Ac power source (unmodified equipment)

(3) Ac power source.

(4) Wattmeter, Radio Frequency AN/URM-43A.

(5) Adapter.

b. Test Connections and Conditions. Connect the equipment as shown in figure 4-3 or 4-3.1. On modified equipment, place the C-1611D/AIC PVT-INT switch in position 3, the RECEIVERS 3 switch ON, all other RECEIVERS switches off, and position the VOL control as required. These settings must be maintained during the test,

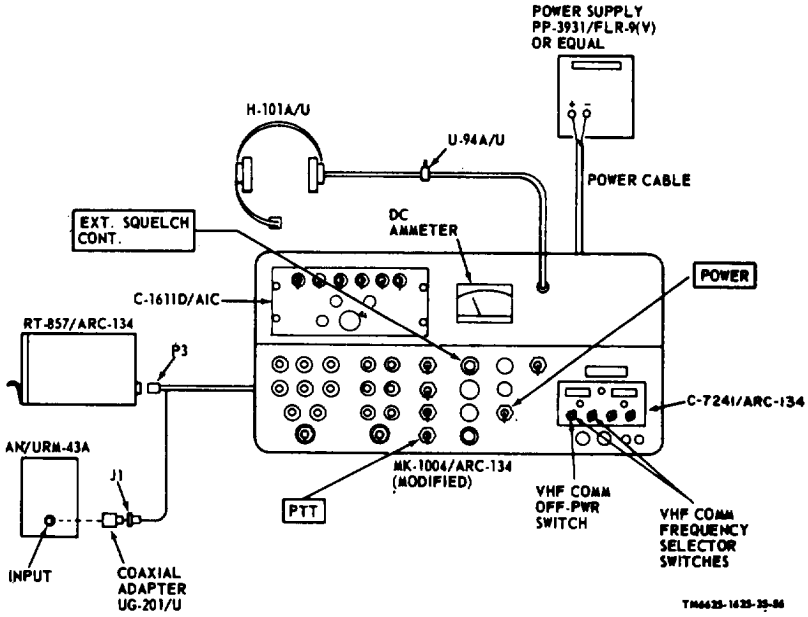


Figure 4-3.1. Transmitter output and control circuit check, test setup, modified maintenance kit.

c. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Teat procedure	Performance standards
1	AN/ARC-134 Set meter switch to LINE V AN/URM-43A Set to HIGH	Set all test panel switches to OFF, and set EXT. SQUELCH CONT. fully counter-clockwise.	*a.* Apply primary operating power to test equipment and maintenance kit, and allow a few minutes warmup period before proceeding. *b.* Set the maintenance kit POWER switch to ON, VHF COMM OFF-PWR switch to PWR, and VHF COMM frequency-selector switches to 132.500 MHz. *c.* Set maintenance kit PTT switch to ON.	*a.* None. *b.* None. *c.* A power output indication should be obtained on the AN/URM-43A. *d.* On modified equipment, the ammeter should indicate 6 to 9 amps.

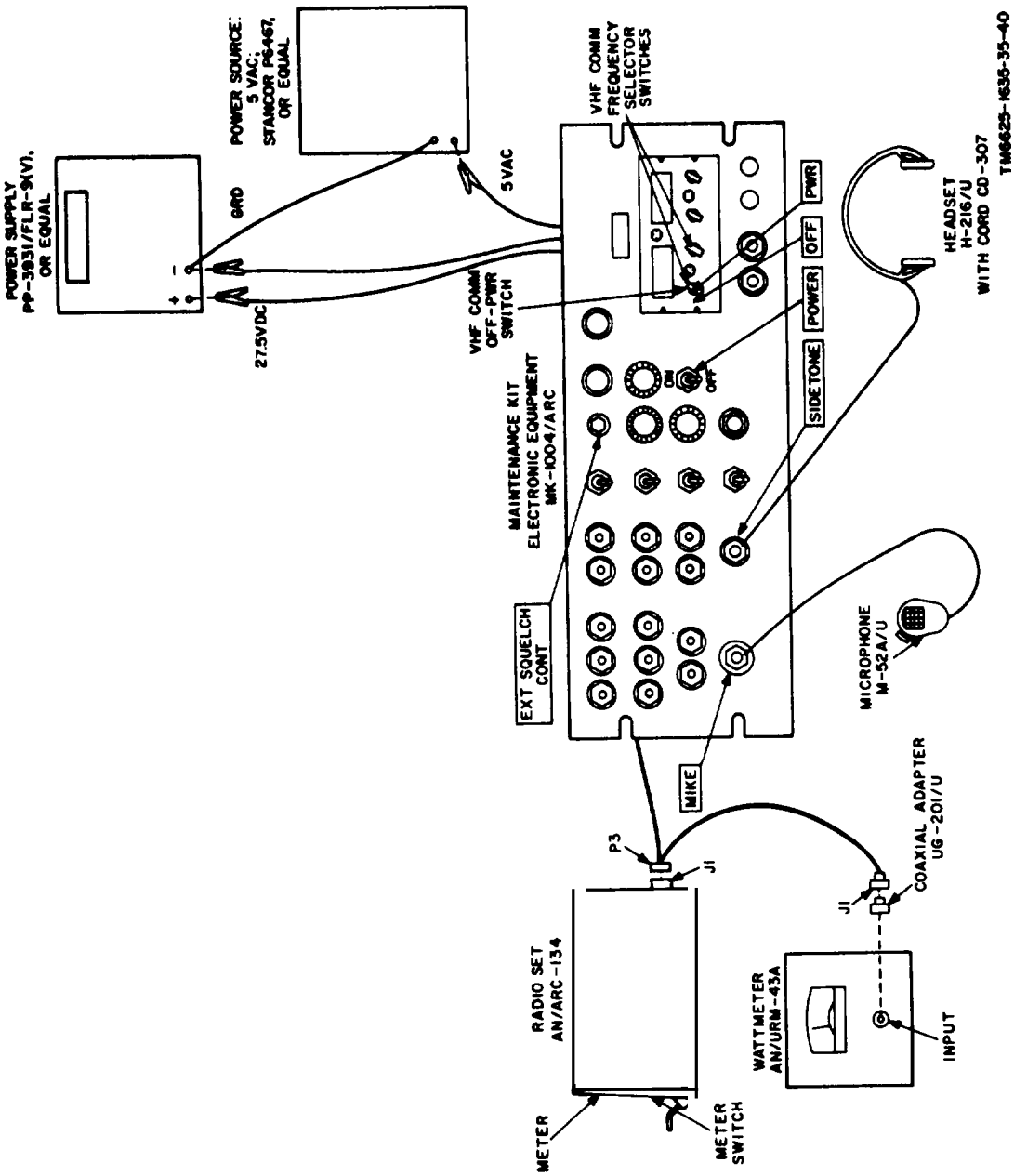


Figure 4-4. Sidetone circuit check, test setup, unmodified maintenance kit.

4-8. Sidetone Circuit Check

a. Test Equipment and Material.

(1) Radio Set AN/ARC-134.

(2) Power supply.

(3) Ac power source (unmodified equipment).

(4) Wattmeter, Radio Frequency AN/URM-43A.

(6) Microphone (unmodified equipment).

(6) Headset (unmodified equipment).

(7) Adapter.

b. Test Connections and Conditions. Connect the equipment as shown in figure 4-4 or 4-41. On modified equipment, place the G-1611D/AIC PVT-INT switch in position 3, the RECEIVERS 3 switch ON, all other RECEIVERS switches off, and position the VOL control as required. These settings must be maintained during the test.

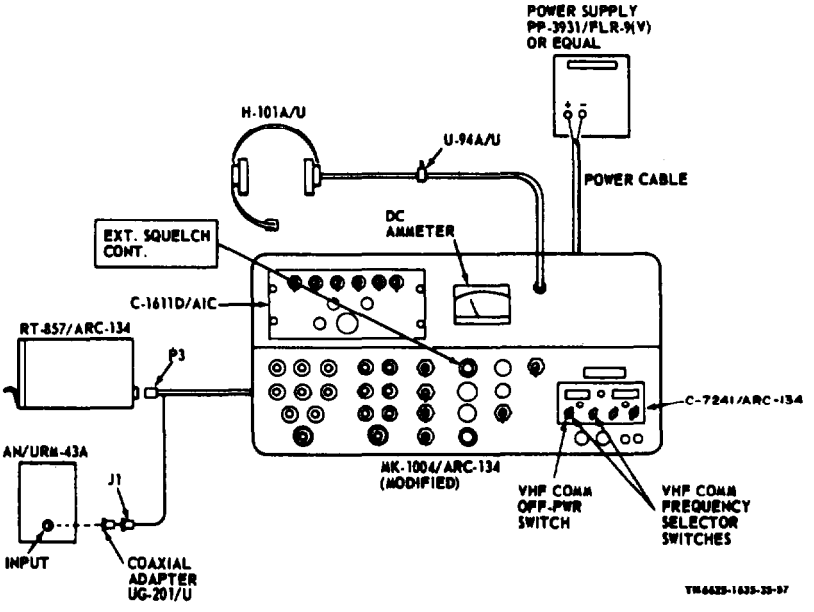


Figure 4-4.1. Sidetone circuit check, test setup, modified maintenance kit.

c. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standards
1	AN/ARC-134 Set meter switch to LINE V. AN/URM-43A Set to HIGH	Set all test panel switches to OFF, and set EXT. SQUELCH CONT. fully counter-clockwise.	*a.* Apply primary operating power to test equipment and maintenance kit, and allow a few minutes warmup period before proceeding.	*a.* None.
			b. Set the maintenance kit POWER switch to ON, VHF COMM OFF-PWR switch to PWR, and VHF COMM frequency-selector switches to 132.500 MHz.	*b.* None.
			c. Key the AN/ARC-134 with the microphone switch and speak into microphone. Release microphone switch.	*c.* The AN/ARC-134 sidetone should be heard in headset.
2	AN/ARC-134 Set meter switch to MOD 1. AN/URM-43A Leave controls in position last indicated in step 1.	Leave controls in positions last indicated in step 1.	Key AN/ARC-134 with switch and speak into microphone.	The meters on the test panel and the AN/ARC-134 should fluctuate with modulation.

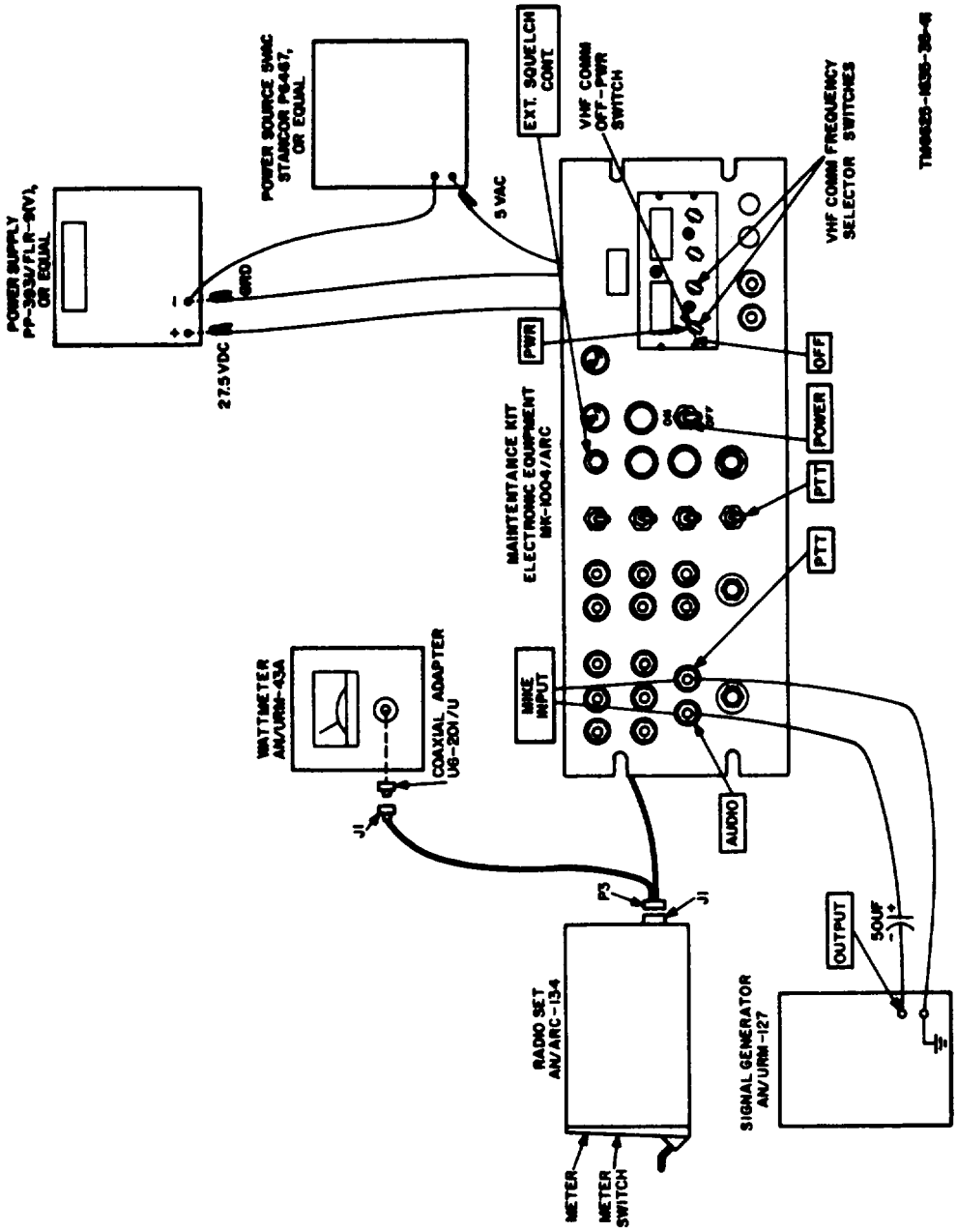


Figure 4-5. Modulation check, MIKE INPUT circuit, test setup, unmodified maintenance kit.

4-9. Modulation Check, MIKE INPUT Circuit

a. Test Equipment and Material.

(1) Radio Set AN/ARC-134.

(2) Power supply.

(3) Ac power source (unmodified equipment).

(4) Wattmeter, Radio Frequency AN/URM-43A.

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

(6) Adapter.

(7) Capacitor, 50-µf, 25-vdc.

b. Test Connections and Conditions. Connect the equipment as shown in figure 4-5 or 4-5.1. On modified equipment, place the C-1611D/AIC PVT-INT switch in position 3, the RECEIVERS 3 switch ON, all other RECEIVERS switches off, and position the VOL control as required. These settings must be maintained during the test.

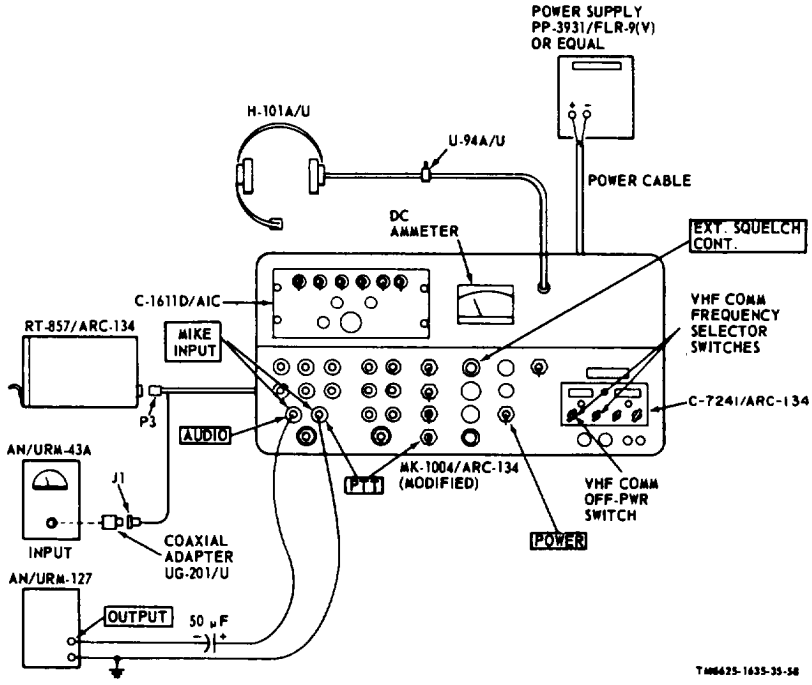


Figure 4-5.1. Modulation check, MIKE INPUT circuit, test setup, modified maintenance kit.

c. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standards
1	AN/ARC-134 Set meter switch to MOD 1. AN/URM-43A Set to HIGH AN/URM-127 Set frequency to 1,000 Hz.	Set all test panel switches to OFF, and set EXT. SQUELCH CONT. fully counter-clockwise.	*a.* Apply primary operating power to test equipment and test panel, and allow a few minutes warmup period before proceeding.	*a.* None.
			b. Set the maintenance kit POWER switch to ON, VHF COMM OFF-PWR switch to PWR, and VHF COMM frequency-selector switches to 132.500.	*b.* None.
			c. Set maintenance kit PTT switch to ON and increase AN/URM–127 output level.	*c.* A modulation indication should be obtained on the test panel AN/ARC-134 meter.

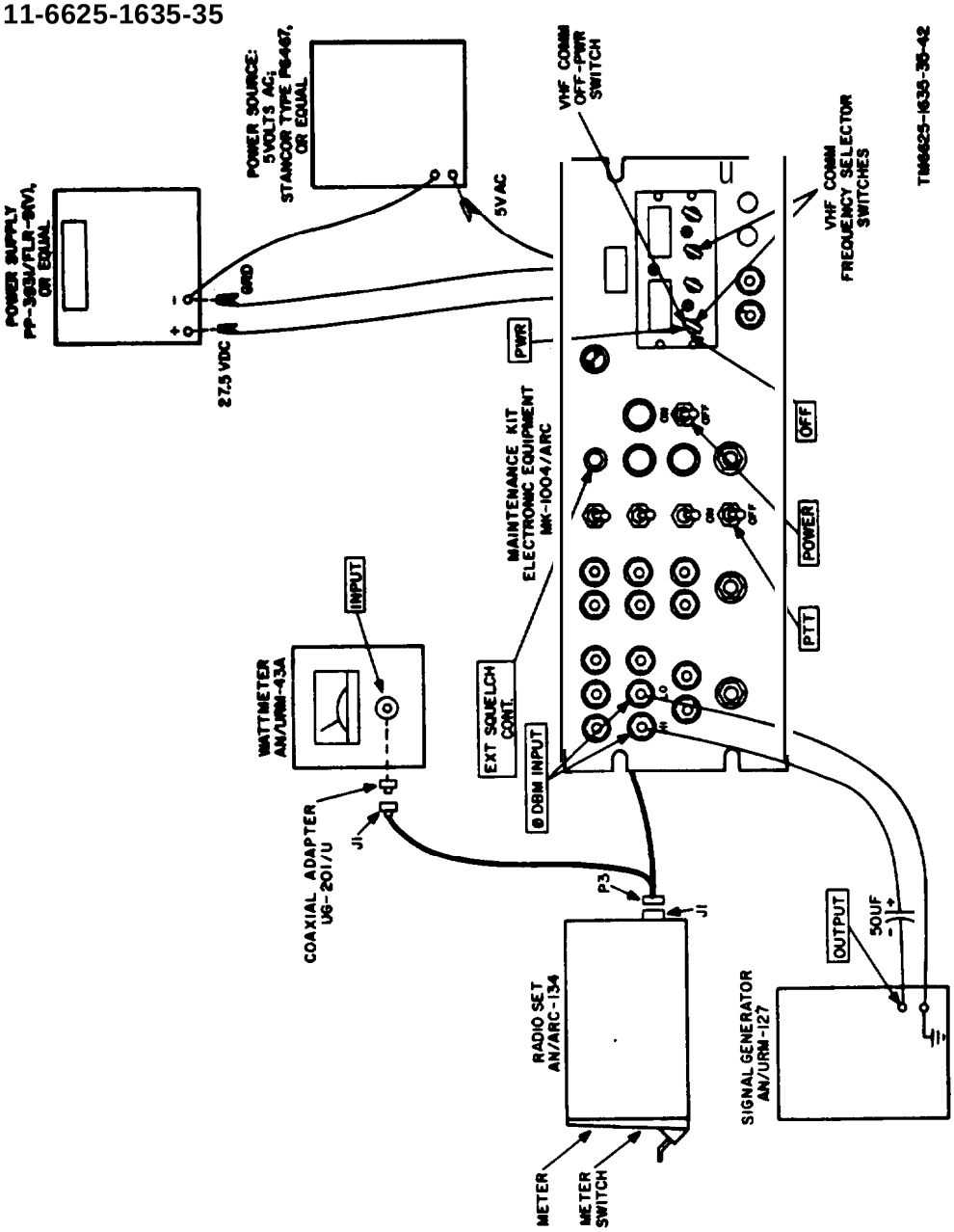


Figure 4-6. Modulation check, Ø DBM INPUT circuit, test setup, unmodified maintenance kit.

4-10. Modulation Check O DBM INPUT Circuit

a. Test Equipment and Material.

(1) Radio Set AN/ARC-134.

(2) Power supply.

(3) Ac power source (unmodified equipment).

(4) Wattmeter, Radio Frequency AN/URM-43A.

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

(6) Adapter.

(7) Capacitor, 50 µf, 25-vdc.

b. Test Connection and Conditions. Connect the equipment as shown in figure 4–6 or 4–6.1. On modified equipment, place the C-1611D/AIC PVT–INT switch in position 3, the RECEIVERS 3 switch ON, all other RECEIVERS switches off, and position the VOL control as required. These settings must be maintained during the test.

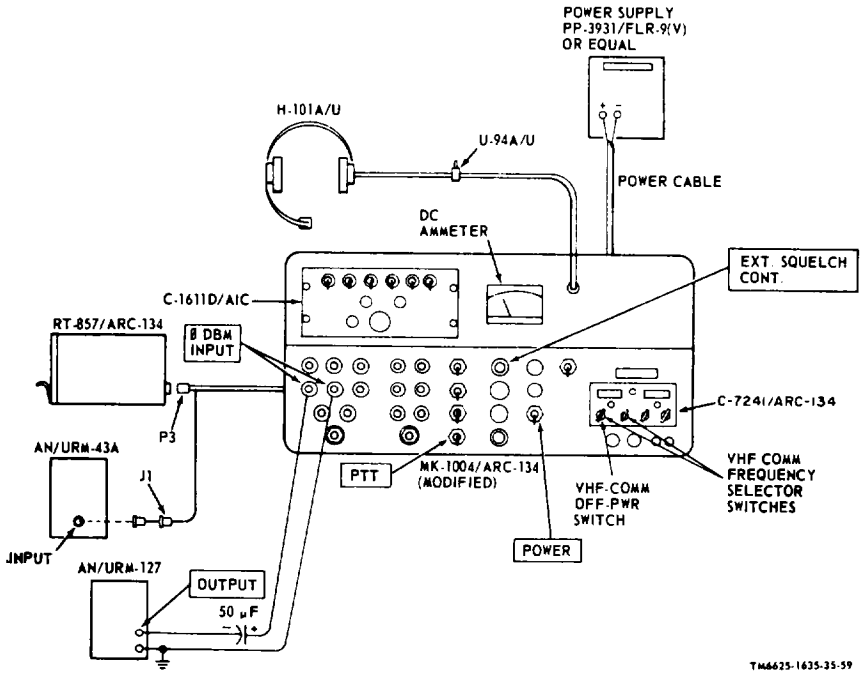


Figure 4-6.1. Modulation check, ø DBM INPUT circuit, test setup, modified maintenance kit.

c. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standards
1	AN/ARC-134 Set meter switch to MOD 1, AN/URM-43A Set to HIGH AN/URM-127 Set frequency to 1,000 Hz.	Set all test panel switches to OFF, and set EXT. SQUELCH CONT. fully counter-clockwise.	*a.* Apply primary operating power to test equipment and maintenance kit, and allow a few minutes warmup period before proceeding.	*a.* None.
			b. Set the maintenance kit POWER switch to ON, VHF COMM OFF-PWR switch to PWR, and the VHF COMM frequency-selector switches to 132.500 MHz.	*b.* None.
			c. Set maintenance kit PTT switch to ON and increase AN/URM-127 output level.	*c.* A modulation indication should be obtained on the AN/ARC-134 meter.

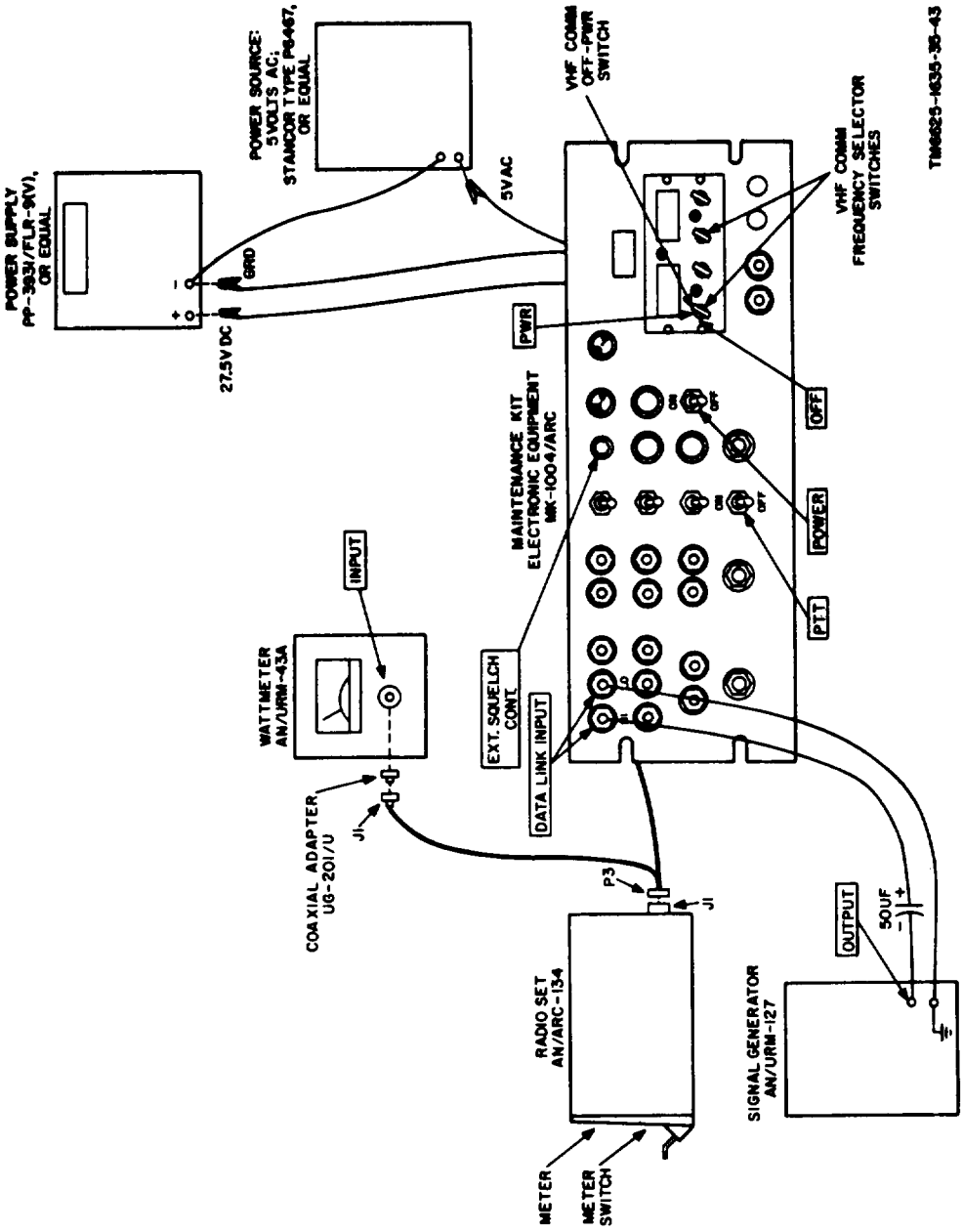


Figure 4-7. Modulation check, DATA LINK INPUT circuit, test setup, unmodified maintenance kit.

4-11. Modulation Check DATA LINK INPUT Circuit

a. Test Equipment and Material.

(1) Radio Set AN/ARC-134.

(2) Power supply.

(3) Ac power source (unmodified equipment).

(4) Wattmeter, Radio Frequency AN/URM-43A.

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

(6) Adapter.

(7) Capacitor, 50- µf, 25-vdc.

b. Test Connection and Conditions. Connect the equipment as shown in figure 4–7 or 4–7.1. On modified equipment, place the C-1611D/AIC PVT–INT switch in position 3, the RECEIVERS 3 switch ON, all other RECEIVERS switches off, and position the VOL control as required. These settings must be maintained during the test.

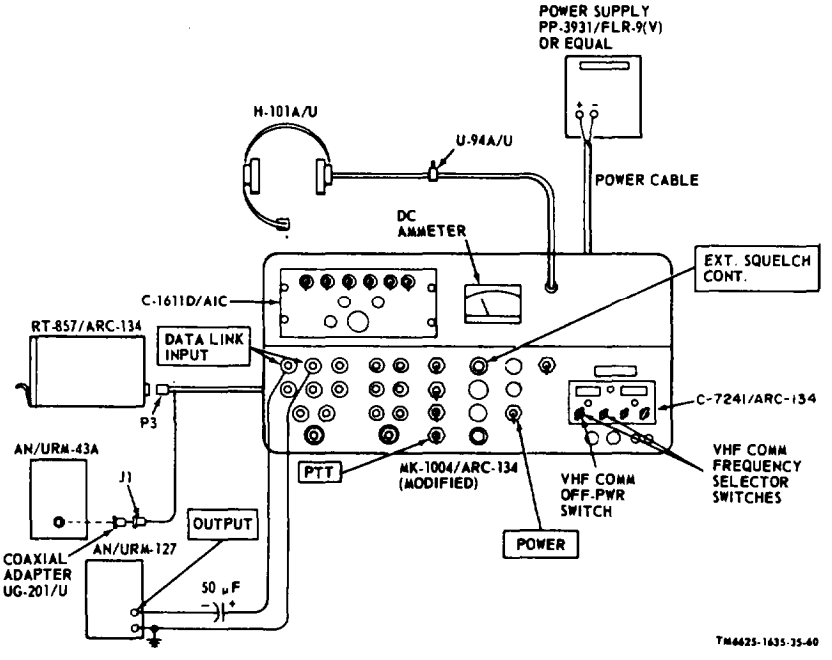


Figure 4-7.1. Modulation check, DATA LINK INPUT circuits, test setup modified maintenance kit.

c. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standards
1	AN/ARC-134 Set meter switch to MOD 1. AN/URM-43A Set to HIGH AN/URM-127 Set frequency to 1,000 Hz.	Set all test panel switches to OFF, and set EXT. SQUELCH CONT. fully counter-clockwise.	*a.* Apply primary operating power to test equipment and maintenance kit, and allow a few minutes warmup period before proceeding.	a. None
			b. Set the maintenance kit POWER switch to ON, VHF COMM OFF-PWR switch to PWR, and the VHF COMM frequency-selector switches to 132.500 MHz.	*b.* None.
			c. Set maintenance kit PTT switch to ON and increase AN/URM-127 output level.	c. A modulation indication should be obtained on the AN/ARC-134 meter.

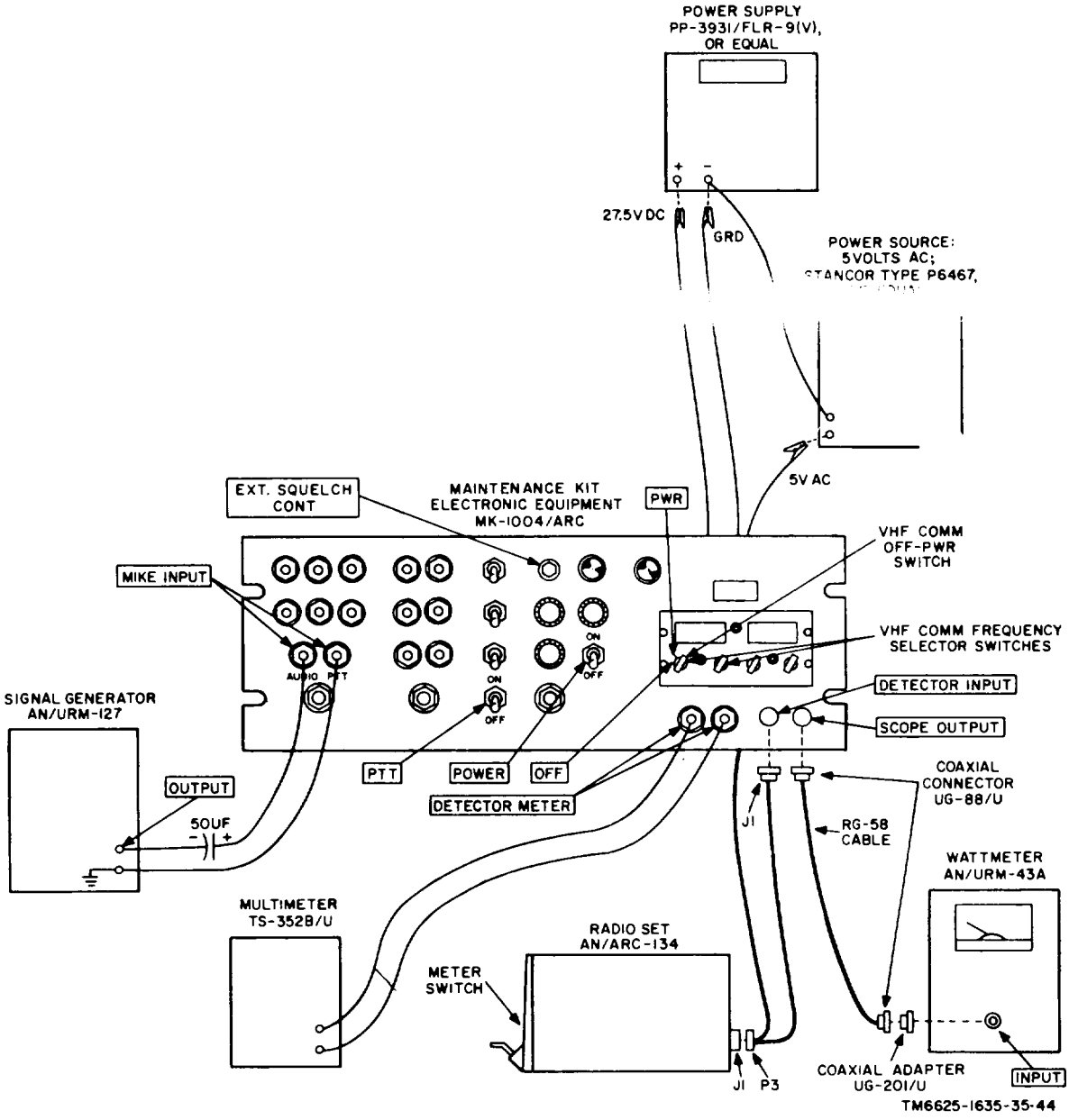


Figure 4-8. Detector circuit check, test setup, unmodified maintenance kit.

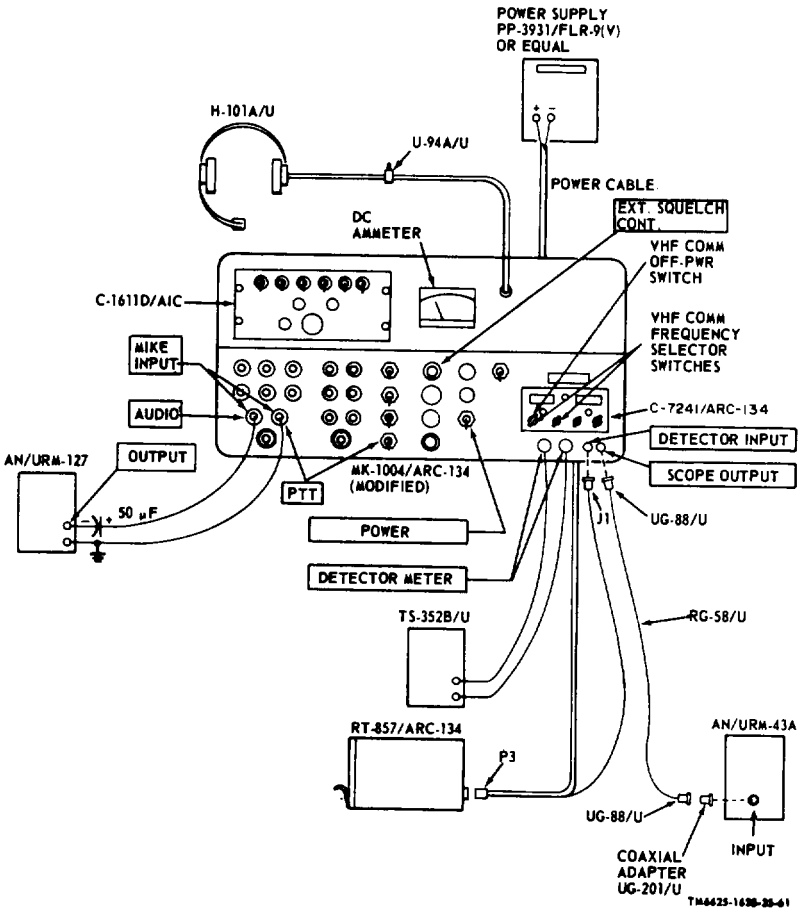


Figure 4-8.1. Detector circuit check, test setup, modified maintenance kit.

4–12. Detector Circuit Check

a. Test Equipment and *Material.*

(1) Radio Set AN/ARC-134.
(2) Power supply.
(3) Ac power source (unmodified equipment).
(4) Wattmeter, Radio Frequency AN/URM-43A.
(5) Generator, Signal AN/URM-127.
(6) Multimeter TS-352B/U.
(7) Adapter.
(8) Two (2) coaxial connectors,
(9) One (1) length of cable.
(10) Capacitor, 50-µf, 25-vdc,

b. Test Connections and Conditions. Connect the equipment as shown in figure 4-8 or 4-8.1. On modified equipment, place the C-1611D/AIC PVT-INT switch in position 3, the RECEIVERS 3 switch ON, all other RECEIVERS switches off, and position the VOL control as required These settings must be maintained during the test.

c. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standards
1	AN/ARC-134 Set meter switch to MOD 1. AN/URM-43A Set to HIGH TS-352B/U a. Function: OUTPUT *a.* Function: OUTPUT *b.* Range scale: 10 vac. AN/URM-127 Set frequency to 1,000 Hz.	Set all test panel switches to OFF, and set EXT. SQUELCH CONT. fully counter-clockwise.	*a.* Apply primary operating power to test equipment and maintenance kit and allow a few minutes warmup period before proceeding. *b.* Set the maintenance kit POWER switch to ON, VHF COMM OFF-PWR switch to PWR, and the VHF COMM frequency-selector switches to 132.500 MHz. *c.* Set maintenance kit PTT switch to ON and increase AN/URM-127 output level.	*a.* None. *b.* None. *c.* Modulation should be indicated by 2 meter deflection on the TS-352B/U and by an increase on the AN/URM-43A.

4–13. Test Data Summary

Personnel may find it convenient to arrange the checklist in a manner similar to that shown below. The data in the checklist may then be used, as a check against the test results, the next time the tests are performed.

a. Receiver Circuit Test No. 1.

Note. The references in the *Step No.* column below are references to the Step No. column in paragraph 4-5 *c.*

Step No.	*Test indication*
2	Maintenance kit POWER indicator lamps illuminated.
3	*a.* Indicator lamps behind Maintenance kit VHF COMM frequency counter dials illuminated.
4	Output indication on TS-352B/U.

b. Receiver Circuit Test No. 2.

Note. The references in the Step No. column below are references to the Step No. column in paragraph 4-6 *c.*

Step No.	*Test indication*
1	*a.* None.
	b. Output indication on TS-352B/U.
2	*a.* Headset signal obtained.
	b. Headset signal again obtained.
3	*a.* AN/USM-44 output level not greater than 1 uv.
4	*b.* AN/USM-44 output level not greater than 100 uv.
	Tone obtained in headset at each respective frequency.

c. Transmitter Output and Control Circuit Test.

Note. The references in the *Step No.* column below are references to the *Step No.* column in paragraph 4-7 *c.*

Step No.	*Test indication*
1	*a.* None.
	b. None.
	c. Output indication *on* AN/URM-43A.

d. Sidetone Circuit Check.

Note. The references in the *Step No.* column below are references to the *Step No.* column in paragraph 4-8 *c.*

Step No.	*Test indication*
1	*a.* None.
	b. None.
	c. AN/ARC-134 sidetone heard in headset.
2	Meters on AN/ARC-134 and test panel fluctuate with modulation.

e. Modulation Check, MIKE INPUT Circuit,

Note. The references in the *Step No.* column below are references to the Step No. column in paragraph 4-9 *c.*

Step No.	*Test indication*
1	a. None.
	b. None.
	c. Modulation indication is obtained on AN/ARC-134 meter.

f. Modulation Check, Ø DBM INPUT Circuit .

Note. The references in the *Step No.* column below are references to the *Step No.* column in paragraph 4-10 *c* .

Step No.	*Test* indication
1	*a.* None.
	b. None.
	c. Modulation indication is obtained on AN/ARC-134 meter.

g. *Modulation Check, DATA LINK INPUT Circuit.*

Note. The references in the *Step No.* column below are references to the *Step No.* column in paragraph 4-ll *c.*

Step No.	*Test indication*
1	a.None.
	b. None.
	c. Modulation indication is obtained on AN/ARC–134 meter.

h. Detector Circuit Check.

Note. The references in the *Step No.* column below are references to the *Step No.* column in paragraph 4-12 *c.*

Step No.	*Test indication*
1	a. None.
	b. None.
	c. Modulation is indicated by a meter deflection on the TS–352B/U and by an increase in the indication of the AN/URM-43A.

CHAPTER 5

DEPOT OVERHAUL STANDARDS

5-1. Applicability of Depot Overhaul Standards

The maintenance kit must be tested thoroughly after repair or overhaul to insure that it meets adequate performance standards for return to stock and reissue. Use the tests described in this chapter to measure the performance of the repaired or overhauled maintenance kit. It is mandatory that equipment repaired for reissue, or return to stock for reissue, meet all of the performance standards given in this chapter.

5-2. Applicable References

a. Repair Standards. Applicable procedures of the depot performing this test and its general standards for repaired electronic equipment given in TB SIG 355-1, TB SIG 356-2, and TB SIG 355-3 form a part of the requirements for testing this equipment.

b. Modification Work Orders. Perform all modification work orders applicable to this equipment before making the tests specified. DA Pam 310–7 lists all available MWO'S.

5-3. Test Facilities Required

The following items (or equivalent) are equipped for depot testing.

Nomenclature	*Federal stock No.*	*Technical manual*
Radio Set AN/ARC-134	5821-072-6018	TM 11-5821-277-35
Generator, Signal AN/USM-44	6625-539-9685	TM 11-6625-508-10
Generator, Signal AN/URM-127	6625-783-5965	TM 11-6625-683-15
Power Supply PP-3931/FLR-9 (V) or equal	6130-733-3638	
Power source: 5 volts ac; Stancor Type P6467, or equal (unmodified equipment).		
Microphone M-52A/U (unmodified equipment)	5965-646-4678	
Headset H-216/U, with Cord CD-307 (FSN 5995-553-0066) (unmodified equipment).	5965-892-3353	
Wattmeter, Radio Frequency AN/URM-43A	6625-557-0389	
Multimeter TS-352B/U		TM 11-6626-366-16
Coaxial Adapter UG-201/U.		
Coaxial Connector UG-88/U (two required).		
Capacitor, 50- µf, 25-Vdc, Sprague Type TL1209, or equal.		
Coaxial Cable RG-58/U (as required).		

5-4. General Test Requirements

Most of the tests will be performed under the conditions given below. Testing will be simplified if connections and control settings are initially made and then changed as required for the individual tests.

a. Connect the equipment as shown in figures 4–1 or 4–1.1.

b. For all tests with modified kits, set the intercom control PVT–INT switch to 3, RECEIVERS switch 3 to ON, all other RECEIVERS switches off, and position the VOL control as required.

c. Set the test panel controls as follows:

Control	*Position*
EXT SQUELCH CONT (switch)	OFF
SQUELCH DISABLE	OFF
AUDIO	OFF
PTT.....	OFF
EXT SQUELCH CONT (pot.)	Fully counter-clockwise.
POWER.....	ON
VHF COMM OFF-PWR	PWR
VHF COMM VOL	Fully clockwise

d. Set the AN/ARC–134 meter switch to LINE V.

e. Apply primary operating power to the maintenance kit and adjust the primary direct-current (dc) supply to 27.5 volts dc. The AN/ARC–134 meter should indicate 27.5 volts dc. The maintenance kit POWER lamps should light, and the indicator lamps behind the VHF COMM frequency counter dials should light.

5-5. Receiver Control Circuit Check at 132.50 MHz

a. Set the TS-352B/U to read ac volts and connect to the maintenance kit RECEIVER OUTPUT jacks.

CAUTION

In *b* below, be sure to connect the 700061–0001 fuse holder between the AN/USM–44 output receptacle and maintenance kit antenna connector J1. The fuse holder should be equipped with a 700061–002 fuse. Do not press the microphone PTT switch or set the maintenance kit PTT switch to ON when the AN/USM-44 is connected to J1.

b. Set the AN/USM-44 for a 132.50-MHz signal, modulated 90 percent at 1,000 Hz, and set the output attenuator for a 6-microvolt output,

c. Set the VHF COMM frequency selector switches to 132.50 MHz. An output should be indicated on the TS-352B/U.

d. Connect the TS~352B/U to the DATA LINK OUTPUT jacks. The indicated voltage should be considerably lower than that in c above.

5-6. Receiver Audio Output Checks

a. Connect the headset to the maintenance kit RECEIVER jack (unmodified equipment).

b. Set the AUDIO switch to ON. A signal should be audible in the headset.

c. Set the EXT SQUELCH CONT switch to ON, and adjust EXT SQUELCH CONT until the signal just disappears.

d. Press the COMM TEST switch. The signal should again be heard, indicating that the AN/ARC–134 squelch circuit is disabled. Release the COMM TEST switch.

5-7. Squelch Control Circuit Checks

a. Set the maintenance kit EXT SQUELCH CONT switch to ON.

b. Adjust the AN/USM-44 output attenuator for a O-microvolt output.

c. Increase the AN/USM-44 level until the squelch just opens as indicated by the presence of a tone in the headset. The AN/USM-44 output level should not be greater than 1 microvolt.

d. Set the AN/USM-44 output level to 0 microvolt. Adjust the EXT SQUELCH CONT fully clockwise. Increase the AN/USM-44 output until the squelch opens. The AN/USM-44 output level should not be greater than 100 microvolt.

5-8. Channel Selection Checks

a. Set the EXT SQUELCH CONT switch to OFF. Adjust the AN/USM-44 output attenuator for a 3-microvolt output.

b. Set the AN/USM-44 and the VHF COMM frequency selector s-witches on the maintenance kit to each of the following frequencies and check for proper frequency selection as indicated by the presence of a tone in the headset: 116.00 MHz, 126.00 MHz, 136.00 MHz, 146.00 MHz, 147.00 MHz, 148.00 MHz, 149.00 MHz, 140.00 MHz, 141.00 MHz, 142.00 MHz, 143.00 MHz, 144.00 MHz, 145.00 MHz, 145.10 MHz, 145.20 MHz, 145.30 MHz, 145.40 MHz, 145.50

MHz, 145.60 MHz, 145.70 MHz, 146.80 MHz, 145.90 MHz, and 145.95 MHz.

c. Disconnect the AN/USM-44, H–216/U, and TS-352B/U from the maintenance kit.

5-9. Transmitter Output and Control Circuit Check

a. Connect the equipment as shown in figure 4-3.

b. Set the VHF COMM frequency selector switches to 132.50 MHz.

c. Set the PTT switch to ON. A power output should be indicated on the AN/USM-43A.

d. Set the PTT switch to OFF.

5-10. Sidetone Check

a. Connect the microphone to the MIKE jack (unmodified equipment).

b. Connect the headset to the SIDETONE jack (unmodified equipment).

c. Key the AN/ARG134; sidetone should be heard in the headset. Release the microphone switch.

5-11. Modulation Checks

a. Set the AN/ARC-134 meter switch to MOD 1.

b. Key the AN/ARC–134 with the microphone switch and talk into the microphone. The AN/ARC-134 meter indication should vary with modulation.

c. Connect the AN/URM–127 through a blocking capacitor (50 microfarads (µf)), as shown in figure 4–5, to the MIKE INPUT jacks.

d. Adjust the AN/URM-127 frequency to 1,000 Hz.

e. Set the PTT switch to ON and increase the output level of the AN/URM–127. A modulation indication should be observed on the AN/ARC–134 meter.

f. Repeat *e* above with the AN/URM-127 connected first to the Ø DBM INPUT jacks and then to the DATA LINK INPUT jacks.

g. Set the PTT switch to OFF.

5-12. Detector Circuit Checks

a. Connect the equipment as shown in figure 4-8.

b. Connect the TS-352B/U to the DETECTOR METER jacks and set the TS-352B/U to the 10-volt range on the OUTPUT scale.

e. Disconnect antenna connector J1 from the AN/URM-43A and connect J1 to DETECTOR INPUT receptacle.

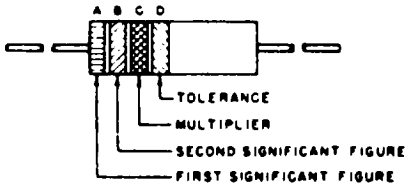
d. Connect the AN/URM-43A to the SCOPE OUTPUT receptacle.

e. Set the PTT switch to ON and increase the AN/URM–127 output level. Modulation should be indicated by a meter deflection on the TS-352B/U by an increase in the AN/URM-43A indication.

f. Set the PTT switch to OFF.

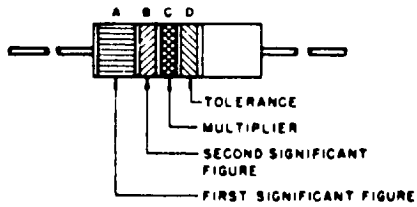
COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS

COMPOSITION-TYPE RESISTORS



BAND A— Equal Width Band Signifies Composition-Type

WIREWOUND-TYPE RESISTORS

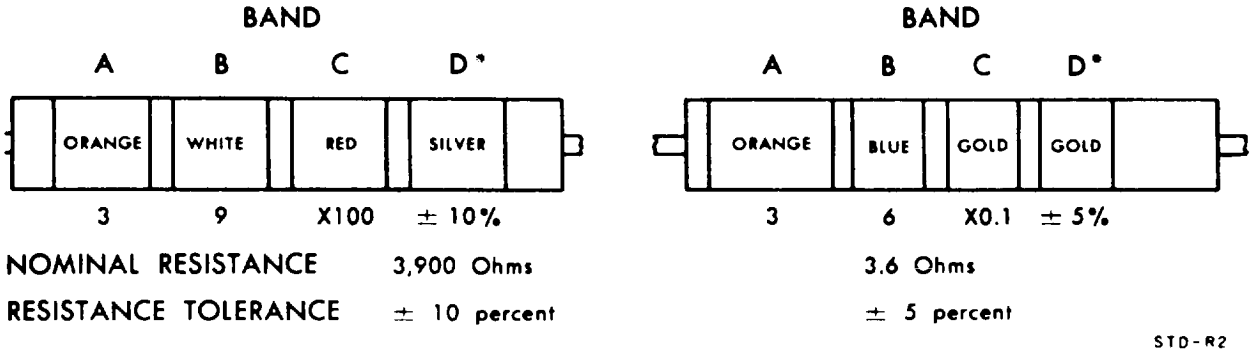


BAND A— Double Width Signifies Wire-wound Resistor

COLOR CODE TABLE

BAND A		BAND B		BAND C		BAND D*	
COLOR	FIRST SIGNIFICANT FIGURE	COLOR	SECOND SIGNIFICANT FIGURE	COLOR	MULTIPLIER	COLOR	RESISTANCE TOLERANCE (PERCENT)
BLACK	0	BLACK	0	BLACK	1		
BROWN	1	BROWN	1	BROWN	10		
RED	2	RED	2	RED	100		
ORANGE	3	ORANGE	3	ORANGE	1,000		
YELLOW	4	YELLOW	4	YELLOW	10,000	SILVER	± 10
GREEN	5	GREEN	5	GREEN	100,000	GOLD	± 5
BLUE	6	BLUE	6	BLUE	1,000,000		
PURPLE (VIOLET)	7	PURPLE (VIOLET)	7				
GRAY	8	GRAY	8	SILVER	0.01		
WHITE	9	WHITE*	9	GOLD	0.1		

EXAMPLES OF COLOR CODING



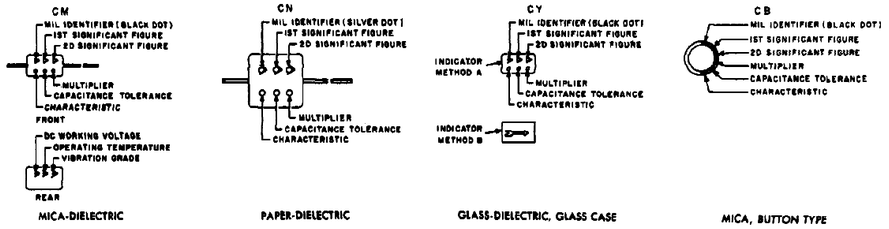
*If Band D is omitted, the resistor tolerance is ± 20%, and the resistor is not Mil-Std.

STD-R2

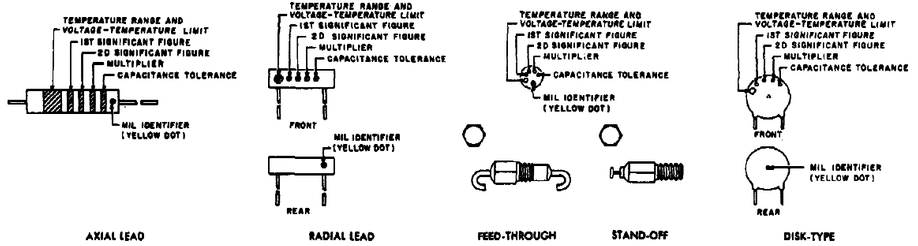
Figure 5-1. Color code marking for MIL-STD resistors.

COLOR CODE MARKING FOR MILITARY STANDARD CAPACITORS

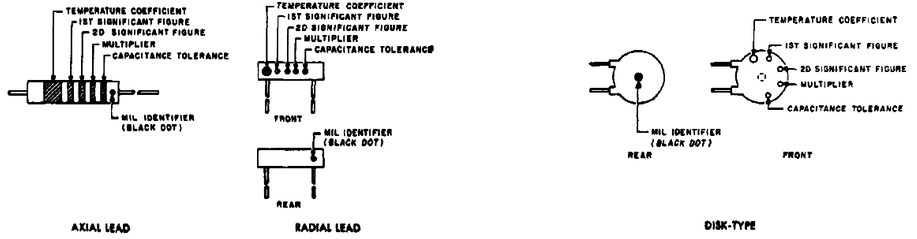
GROUP I Capacitors, Fixed, Various-Dielectrics, Styles CM, CN, CY, and CB



GROUP II Capacitors, Fixed Ceramic-Dielectric (General Purpose) Style CK



GROUP III Capacitors, Fixed, Ceramic-Dielectric (Temperature Compensating) Style CC



STD-C2

Figure 5–2. Color code marking for MIL-STD capacitors.

COLOR CODE TABLES

TABLE I – For use with Group I, Styles CM, CN, CY and CB

COLOR	MIL ID	1st SIG FIG	2nd SIG FIG	MULTIPLIER[1]	CAPACITANCE TOLERANCE				CHARACTERISTIC[2]				DC WORKING VOLTAGE	OPERATING TEMP. RANGE	VIBRATION GRADE
					CM	CN	CY	CB	CM	CN	CY	CB	CM	CM	CM
BLACK	CM, CY CB	0	0	1			± 20%	± 20%		A				−55° to +70°C	10–55 cps
BROWN		1	1	10					B	E		B			
RED		2	2	100	± 2%		± 2%	± 2%	C		C			−55° to +85°C	
ORANGE		3	3	1,000		± 30%			D			D	300		
YELLOW		4	4	10,000					E					−55° to +125°C	10–2,000 cps
GREEN		5	5		± 5%				F				500		
BLUE		6	6											−55° to +150°C	
PURPLE (VIOLET)		7	7												
GREY		8	8												
WHITE		9	9												
GOLD				0.1			± 5%	± 5%							
SILVER	CN				± 10%	± 10%	± 10%	± 10%							

TABLE II – For use with Group II, General Purpose, Style CK

COLOR	TEMP. RANGE AND VOLTAGE – TEMP. LIMITS[3]	1st SIG FIG	2nd SIG FIG	MULTIPLIER[1]	CAPACITANCE TOLERANCE	MIL ID
BLACK		0	0	1	± 20%	
BROWN	AW	1	1	10	± 10%	
RED	AX	2	2	100		
ORANGE	BX	3	3	1,000		
YELLOW	AY	4	4	10,000		CK
GREEN	CZ	5	5			
BLUE	BY	6	6			
PURPLE (VIOLET)		7	7			
GREY		8	8			
WHITE		9	9			
GOLD						
SILVER						

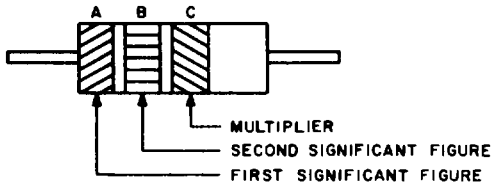
TABLE III – For use with Group III, Temperature Compensating, Style CC

COLOR	TEMPERATURE COEFFICIENT[4]	1st SIG FIG	2nd SIG FIG	MULTIPLIER[1]	CAPACITANCE TOLERANCE		MIL ID
					Capacitances over 10uuf	Capacitances 10uuf or less	
BLACK	0	0	0	1		± 2.0uuf	CC
BROWN	−30	1	1	10	± 1%		
RED	−80	2	2	100	± 2%	± 0.25uuf	
ORANGE	−150	3	3	1,000			
YELLOW	−220	4	4				
GREEN	−330	5	5		± 5%	± 0.5uuf	
BLUE	−470	6	6				
PURPLE (VIOLET)	−750	7	7				
GREY		8	8	0.01			
WHITE		9	9	0.1	± 10%		
GOLD	−100					± 1.0uuf	
SILVER							

1. The multiplier is the number by which the two significant (SIG) figures are multiplied to obtain the capacitance in uuf.
2. Letters indicate the Characteristics designated in applicable specifications: MIL-C-5, MIL-C-91, MIL-C-11272, and MIL-C-10950 respectively.
3. Letters indicate the temperature range and voltage-temperature limits designated in MIL-C-11015.
4. Temperature coefficient in parts per million per degree centigrade.

STD-C2

DIODE COLOR CODE



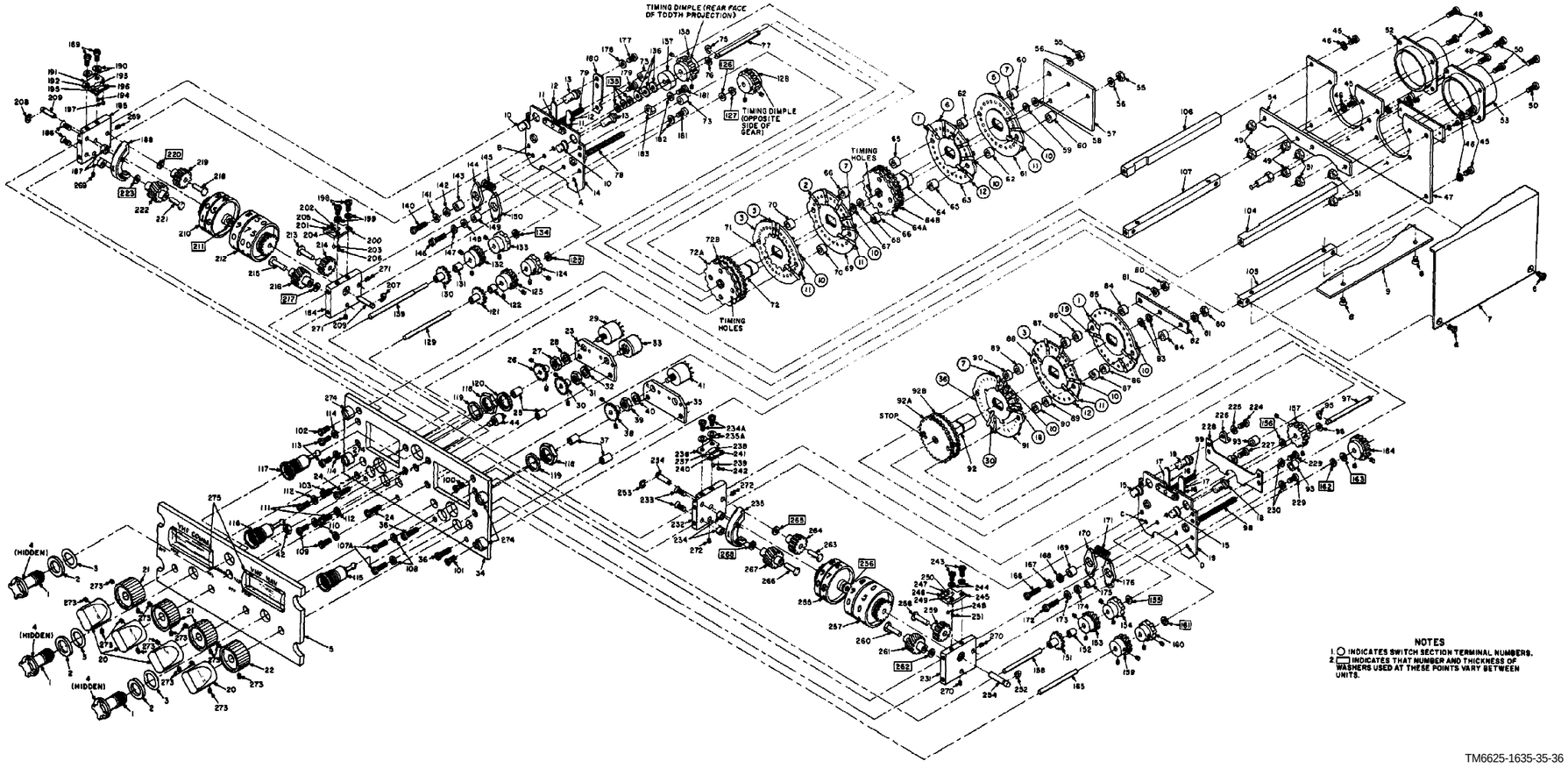
BAND A		BAND B		BAND C	
COLOR	FIRST SIGNIFICANT FIGURE	COLOR	SECOND SIGNIFICANT FIGURE	COLOR	MULTIPLIER
BLACK	0	BLACK	0	BLACK	1
BROWN	1	BROWN	1	BROWN	10
RED	2	RED	2	RED	100
ORANGE	3	ORANGE	3	ORANGE	1,000
YELLOW	4	YELLOW	4	YELLOW	10,000
GREEN	5	GREEN	5	GREEN	100,000
BLUE	6	BLUE	6	BLUE	1,000,000
PURPLE (VIOLET)	7	PURPLE (VIOLET)	7		
GRAY	8	GRAY	8	GRAY	0.01
WHITE	9	WHITE	9	WHITE	0.1

TM6625-1635-35-45

TM 6625-1635-35-45

Figure 5-3. Color code marking for diode CR1.

1 Receptacle cap
2 Washer, fiber 0.375 id
3 Rubber ring
4 Panel lamp
5 Front panel
6 Screw, 4-40 by 1/4
7 Top cover
8 Screw, 4-40 by 1/4
9 Bottom cover
10 Rubber cover
11 Screw, 6-32 by 5/16
12 Retaining tab
13 VHF COMM indicator lamp
14 Rear gear plate
15 Rubber cover
16 Screw, 6-32 by 5/16
17 Retaining tab
18 VHF NAV indicator lamp
19 Rear gear plate
20 Knob
21 Knob
22 Knob
23 Mounting plate
24 Screw, 4-40 by 5/8
25 Spacer, standoff
26 Spur gear
27 Nut
28 Washer
29 Switch S6
30 Spur gear
31 Nut
32 Washer
33 VOL control R1
34 Front gear plate
35 Mounting plate
36 Screw, 4–40 by ⅝
37 Spacer, standoff
38 Spur gear
39 Nut
40 Washer
41 Switch S7
42 Nut
43 Not used
44 Switch S5
45 Screw, 4–40 by ¼
46 Lockwasher, No. 4
47 Rear plate
48 Screw, 4–40 by 5/16
49 Nut, self-locking, 4–40
50 Screw, 4-40 by 5/16
51 Nut, self-locking, 4–40
52 Connector J1, PT02A–20–39PY
53 Connector J2, PTO2A–20–39PZ
54 Bracket
55 Nut, 6-32
56 Lockwasher, No. 6
57 Plate
58 Washer, 0.125 id
59 Washer, 0.25 id
60 Insulator, spacer, 0.125 lg
61 Switch section S2B
62 Insulator, spacer, 0.187 lg
63 Switch section S2A
64 Gear assembly
64A Gear, driving
64B Gear, spur
65 Insulator, spacer, 0.250 lg
66 Insulator, spacer, 0.218 lg
67 Washer, 0.125 id, 0.010 lg
68 Washer, 0.125 id, 0.030 lg
69 Switch section S1B
70 Insulator, spacer, 0.140 id, 0.187 lg
71 Switch section S1A
72 Gear assembly
72A Gear, composite
72B Gear, spur
73 Insulator, spacer, 0.140 id, 0.125 lg
74 Not used
75 Retaining ring
76 Washer, 0.125 id, 0.010 thk
77 Shaft, frequency-selector
78 Screw, special 6-32 fillister-head turned down to 0.188-0.010 head diameter
79 Same as 78
80 Nut, 6-32
81 Lockwasher, No. 6
82 Plate
83 Washer, 0.125 id, 0.010 thk
84 Insulator, spacer, 0.250 id, 0.187 lg
85 Switch section S4B
86 Insulator, spacer, 0.140 id, 0.156 lg
87 Insulator, spacer, 0.140 id, 0.125 lg
88 Switch section S4A
89 Insulator, spacer, 0.140 id, 0.156 lg
90 Insulator, spacer, 0.140 id, 0.125 lg
91 Switch section S3A
92 Gear assembly
92A Spur gear
92B Spur gear
93 Insulator, spacer, 0.140 id, 0.250 lg
94 Not used
95 Retaining ring
96 Washer, 0.125 id, 0.30 thk
97 Shaft, frequency-selector
98 Screw, special 6-32 fillister head turned down to 0.188–0.010 head diameter
99 Same as 98
100 Screw, 4–40 by ¼
101 Screw, 4–40 by ¼
102 Screw, 4–40 by ¼
103 Screw, 4–40 by ¼
104 Support member, upper right
105 Support member, lower
106 Support member, upper left
107 Support member, lower
107A Screw, 4–40 by 5/16
108 Washer, No. 4
109 Screw, 4–40 by 5/16
110 Washer, No. 4
111 Screw, 4–40 by 5/16
112 Washer, No. 4
113 Screw, 4–40 by 5/16
114 Washer, No. 4
115 Lamp receptacle
116 Lamp receptacle
117 Lamp receptacle
118 Nut
119 Washer
120 Nut
121 Spur gear
122 Insulator, spacer
123 Helical gear
124 Detent wheel, 8 point
125 Washer, flat, 0.187 id, 0.010 thk
126 Washer, flat, 0.187 id, 0.031 thk
127 Washer, flat, 0.187 id, 0.010 thk
128 Gear assembly, fraction mc
129 Gear shaft
130 Spur gear
131 Insulator, spacer
132 Helical gear
133 Detent wheel, 10-point
134 Washer, 0.187 id, 0.010 thk
135 Washer, 0.187 id, 0.031 thk
136 Stop washer
137 Cam
138 Gear assembly
139 Gear shaft
140 Screw, 4–40 by 5/16
141 Washer, No. 4
142 Washer, No. 4
143 Spacer, sleeve
144 Detent arm
145 Spring, helical extension



NOTES
1. ○ INDICATES SWITCH SECTION TERMINAL NUMBERS.
2. □ INDICATES THAT NUMBER AND THICKNESS OF WASHERS USED AT THESE POINTS VARY BETWEEN UNITS.

TM6625-1635-35-36

146 Screw, 4–40 by 5/16
147 Washer, No. 4
148 Washer, No. 4
149 Spacer, sleeve
150 Detent arm
151 Spur gear
152 Insulator, spacer
153 Helical gear
154 Detent wheel, 10-point
155 Washer, 0.186 id, 0.010 thk
156 Washer, 0.187 id, 0.010 thk
157 Gear assembly, whole mc
158 Gear shaft
159 Helical gear
160 Detent wheel, 8-point
161 Washer, 0.187 id, 0.010 thk
162 Washer, 0.187 id, 0.010 thk
163 Washer, 0.187 id, 0.031 thk
164 Gear assembly, fraction mc
165 Gear shaft
166 Screw, 4–40 by 5/16
167 Washer, No. 4
168 Washer, No. 4
169 Spacer, sleeve
170 Detent arm
171 Spring, helical extension
172 Screw, 4–40 by 5/16
173 Washer, No. 4
174 Washer, No. 4
175 Spacer, sleeve
176 Detent arm
177 Screw, 4–40 by 5/16
178 Washer, No. 4
179 Screw, 4–40 fillister-hd with 0.156 ±0.003 dia head
180 Stop plate, communication
181 Screw, 4–40 by 5/16
182 Washer, No. 4
183 Terminal lug
184 Gear plate
185 Gear plate
186 Screw, 4–40 by ¼
187 Spacer, sleeve
188 Dial, segment
189 Screw, 2-56 by 3/16
190 Washer, flat, stl, cres, 0.250 od, 0.111 id, 0.010 thk
191 Detent plate
192 Screw, 0-80 roundhead, 0.063 ±0.010 —0.000 lg
193 Spring, detent
194 Ball bearing
195 Screw, 0-80 roundhead, 0.063 ±0.010 —0.000 lg
196 Spring, detent
197 Ball bearing
198 Screw, 2–56 by 3/16
199 Washer, flat, stl, cres, 0.250 od, 0.111 id, 0.010 thk
200 Detent plate
201 Screw, 0-80 roundhead, 0.063 ±0.010 —0.000 lg
202 Spring, detent
203 Ball bearing
204 Screw, 0-80 roundhead, 0.063 ±0.010 —0.000 lg
205 Spring, detent
206 Ball bearing
207 Retaining ring
208 Retaining ring
209 Shaft, dial support
210 Gear assembly
212 Gear assembly
213 Flanged hub
214 Pinion gear
215 Flanged hub
216 Helix gear
217 Washer, 0.125 id, 0.21875 od, 0.10 thk
218 Flanged hub
219 Pinion gear
220 Washer, 0.125 id, 0.21875 od, 0.010 thk
221 Flanged hub
222 Helix gear
223 Washer, 0.125 id, 0.21875 od, 0.010 thk
224 Screw, 4–40 by 5/16
225 Washer, No. 4
226 Terminal lub
227 Screw, 4–40, Phillips fillister-head, 0.156 ±0.003 dia hd
228 Stop plate, navigation
229 Screw, 4–40 by 5/16
230 Washer, No. 4
231 Gear plate
232 Gear plate
233 Screw, 4–40 by ¼
234 Spacer, sleeve
234A Screw, 2–56 by 3/16
235 Dial, segment
235A Washer, flat, stl, cres, 0.250 od, 0.111 id, 0.010 thk
236 Detent plate
237 Screw, 0–80 roundhead, 0.063 ±0.010 —0.000 lg
238 Spring, detent
239 Ball bearing
240 Screw, 0–80 roundhead, 0.063 ±0.010 —0.000 lg
241 Spring, detent
242 Ball bearing
243 Screw, 2–56 by 3/16
244 Washer, flat, stl, cres, 0.250 od, 0.111 id, 0.010 thk
245 Detent plate
246 Screw, 0–80 roundhead, 0.063 ±0.010 —0.000 lg
247 Spring, detent
248 Ball bearing
249 Screw, 0–80 roundhead, 0.63 ±0.010 —0.000 lg
250 Spring, detent
251 Ball bearing
252 Retaining ring
253 Retaining ring
254 Shaft, dial support
255 Dial assembly
256 Washer, 0.125 id, 0.21875 od, 0.030 thk
257 Dial assembly
258 Flanged hub
259 Pinion gear
260 Flanged hub
261 Helix gear
262 Washer, 0.125 id, 0.21875 od, 0.010 thk
263 Flanged hub
264 Pinion gear
265 Washer, 0.125 id, 0.21875 od, 0.010 thk
266 Flanged hub
267 Helix gear
268 Washer, 0.125 id, 0.21875 od, 0.010 thk
269 Setscrew
270 Setscrew
271 Setscrew
272 Setscrew
273 Setscrew
274 DZUS fasteners

Figure 5-4. Radio control, exploded view.

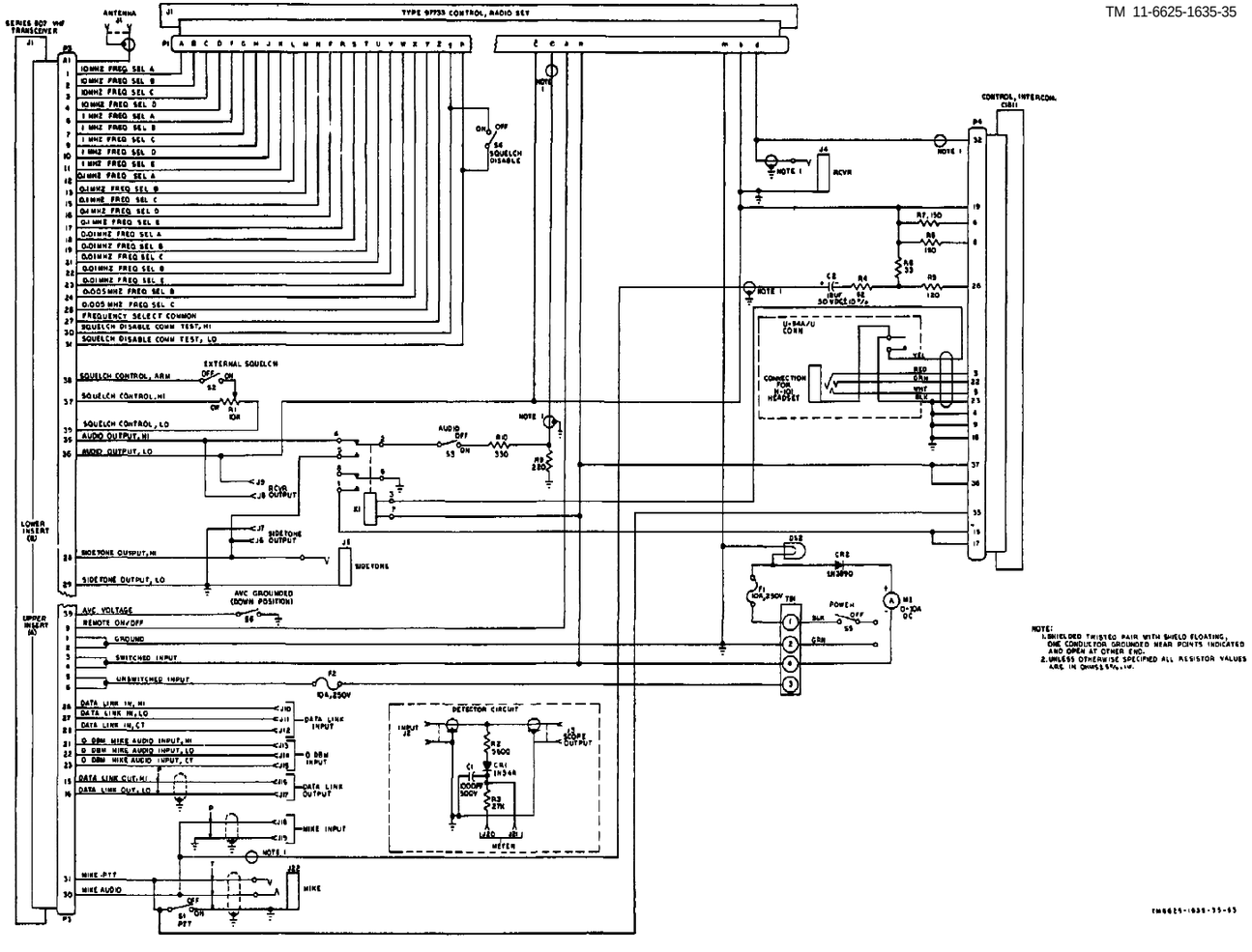


Figure 5–5. Test panel (modified), schematic diagram.

APPENDIX A

REFERENCES

Following is a list of applicable references available to the direct support, general support, and depot maintenance repairmen of Maintenance Kit, Electronic Equipment MK-1004/ARC:

DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.
DA Pam 310-7	US Army Equipment Index of Modification Work Orders.
TB SIG 355-1	Depot Inspection Standard for Repaired Signal Equipment.
TB SIG 355-2	Depot Inspection Standard for Refinishing Repaired Signal Equipment.
TB SIG 355-3	Depot Inspection Standard for Moisture and Fungus Resistant Treatment.
TB 746-10	Field Instructions for Painting and Preserving Electronics Command Equipment.
TM 11-5821-277-20	Organizational Maintenance Manual: Radio Sets AN/ARC-134, AN/ ARC-134A, and AN/ARC-134B.
TM 11-5821-27735	DS, GS, and Depot Maintenance Manual (Including Repair Parts and Special Tools List): Radio Sets AN/ARC–134, AN/ARC-134A, and AN/ARC-134B.
TM 11-5831-201-20	Organizational Maintenance Manual: Control, Intercommunication Set C-1611D/AIC and Discriminator, Discrete Signal MD-736/A.
TM 11-6625-666-15	Operator's, Organizational, DS, GS, and Depot Maintenance Manual: Multimeter TS-352B/U.
TM 11-6625-508-10	Operator's Manual: Signal Generators AN/USM-44 and AN/USM-44A.
TM 11-6625-683-15	Operator, Organizational, Direct Support, General Support, and Depot Maintenance Manual: Signal Generator AN/URM-127.
TM 11–6625-1635-12	Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tool Lists: Maintenance Kit, Electronic Equipment MK-1004/ARC.

APPENDIX B

DS, GS, AND DEPOT REPAIR PARTS

Section I. INTRODUCTION

B-1. Scope

This appendix contains a list of repair parts required for the performance of direct support, general support, and depot maintenance for Maintenance Kit, Electronic Equipment MK-1004/ARC.

Note. No special tools, test, and support equipment are required.

B–2. General

The repair parts list is divided into the following sections:

a. Repair Parts for Direct Support, General Support, and *Depot Maintenance, Section II.* Repair parts authorized for direct support, general support, and depot maintenance are included in this section.

Note. All indexes noted below are cross referenced to index numbers. The index numbers appear in ascending sequence in column 3 of the repair parts list (para B-3 *c*). The index number for the particular item will be the same for the item in all sections of this publication.

b. Federal Stock Number Cross-Reference to Index Number, Section III. This is a cross--reference index of Federal stock numbers and manufacturer's part numbers to index numbers.

c. Figure and Item Number Cross-Reference to Index Number, Section IV. This is a cross-reference index of figure number and item number (or reference designation) to index number. The figure numbers are listed in numerical sequence; item numbers and/or reference designations are listed for each figure.

d. Reference Designation Cross-Reference to Index Number, Section V. This is a cross--reference index of reference designations and/or item numbers to index numbers.

B–3. Explanation of Columns

An explanation of the columns is given below.

a. Source, Maintenance, and Recoverability Codes Column. This column lists the applicable SMR codes for the part.

(1) *Source code (A). The* selection status and source for the listed item is noted here. Source codes and their explanations are as follows:

Code	*Explanation*
P	—Applies to repair parts that are stocked in or supplied from the GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.
X1	—Applies to repair parts that are not procured or stocked, the requirement for which will be supplied by the use of next higher assembly or component.
X2	—Applies to repair parts that are not staked. The indicated maintenance category requiring such repair parts will attempt to obtain them through cannibalization; if not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.
MD	—Applies to repair parts that are not procured or stocked, but are to be fabricated by using units at depot.

(2) *Maintenance code (B).* The lowest category of maintenance authorized to install the listed item is noted here.

Code	*Explanation*
O	Organizational Maintenance
F	Direct Support Maintenance
H	General Support Maintenance

(3) *Recoverability code (C).* The information in this column indicates whether unserviceable items should be returned for recovery or salvage. Recoverability code and its explanation is as follows:

Note. When no code is indicated in the recoverability column, the part will be considered expendable.

Code	*Explanation*
R	—Applies to repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.

b. Federal Stock Number Column. The Federal stock number for the item is listed in this column.

*c. Description Column. The sequence num-*her, Federal item name, a five-digit manufacturer's code, an indenture code, and a part number are included in this column. For subsequent appearances of the same item, the manufacturer's code and part number are omitted. The words "same as" followed by the sequence number assigned to the item when it first appeared in the list will follow the item name, e.g., "RESISTOR, FIXED, COMPOSITION: SAME AS A298." The indenture codes indicate the end item, the assemblies, and the component parts. Identical codes are parts of the preceding higher code. An asterisk (*) in the indenture code column indicates attaching hardware. Model column is not used.

d. Unit of Issue Column. The unit used as a basis of issue (e.g., ea, pr, ft, yd, etc.) is indicated in this column.

e. Quantity Incorporated in Unit Pack Column. The actual quantity contained in the unit pack is indicated in this column.

f. Quantity Incorporated in Unit Column. The quantity of repair parts in an assembly is given in this column. Subsequent appearances of the same item in the same assembly are indicated by the letters "REF." An asterisk (*) indicates that the item may be requisitioned "as required."

g. *Maintenance Allowances Column.*

(1) The maintenance allowance columns are divided into subcolumns. Indicated in each subcolumn opposite the first appearance of the item is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have no entry in the allowance columns, but will have a reference in the description column to the first appearance of the item. Items authorized for use as required, but not for initial stockage, are identified with an asterisk (*) in the allowance column.

(2) The quantitative allowances for DS/GS categories of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

h. One-Year Allowances Per 100 Equipments/Contingency Planning Purposes Column. Opposite the first appearance of each item, the total quantity required for distribution and contingency planning purposes is indicated. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for 1 year.

i. Depot Maintenance Allowance Per 100 Equipments Column. This column indicates the total quantity of each item authorized depot maintenance for 100 equipments. Subsequent appearances of the same item will have no entry in this column, but will have a reference in the description column to the first appearance of the item.

j. Illustrations Column.

(1) *Figure number (A).* The number of the illustration in which the item is shown is indicated in this column.

(2) *Item or symbol number (B).* The reference designation or item number used to reference the item in the illustration appears in this column.

B–4. Location of Repair Parts

a. This manual contains three cross-reference indexes (sec. III, IV, and V), to be used to locate a repair part when either the Federal stock number, reference number (manufacturer's part number), figure number, or reference designation and/or item number is known. . The first column in each cross-reference index is prepared, as applicable, in numerical or alphanumerical sequence. The last column of each cross-reference index lists the index number assigned to the part.

b. Refer to the appropriate cross-reference index (para B–2 *b,* c, *d)* and note the index number in the last column; then refer to the repair parts list to locate the index number which is listed in ascending order in column 1 of the repair parts list.

B–5. Federal Supply Codes

This paragraph lists the Federal supply code and the associated manufacturer's name.

Code	Manufacturer
00779	AMP, Inc.
01121	Allen-Bradley Co.
05402	Controls Co. of America
08795	Rayclad Tubes, Inc.
08800	General Electric Co., Insulating Materials Dept.
14370	Continental Rubber Works
15909	Daven Div. Thomas A. Edison Industries, McGraw-Edison Co.
28307	Bradley Industries
28480	Hewlett-Packard Co.
37942	Mallory, P. R. & Co., Inc.
41340	Montgomery Ward & Co., Inc.
58474	Superior Electric Co.
65597	Wilcox Electric Co., Inc.
71041	Boston Gear Works Div. of Murray Co. of Texas
71124	Brand-Rex Division, American Enka Corp.
71279	Cambridge Thermionic Corp.
71400	Bussman Mfg. Div. of McGraw-Edison Co.
71468	ITT Cannon Electric, Inc.
71744	Chicago Miniature Lamp Works
71785	Cinch Mfg. Co. and Howard B. Jones Div.
71984	Dow Corning Corp.
72136	Electro Motive Mfg. Co., Inc.
72619	Dialight Corp.
72794	Dzus Fastener Co., Inc.
72914	Grimes Mfg. Co.
72962	Elastic Stop Nut Corp. of America
72982	Erie Technological Products, Inc.
73957	Groov-Pin Corp.
74284	Skydyne, Inc.
75382	Kulka Electric Corp.
76545	Mueller Electric Co.
77820	Bendix Corp., The Electrical Components Div.
78189	Shakeproof Div. of Illinois Tool Works, Inc.
79136	Waldes Kohinoor, Inc.
79963	Zierick Mfg. Corp.
81343	Society of Automotive Engineers
81348	Federal Specifications
81349	Military Specifications
82104	Standard Grigsby Co.
82110	Gudebrad Bros. Silk Co., Inc.
83259	Parker Seal Co.
88044	Aeronautical Standards Group
93332	Sylvania Electric Products, Inc., Semiconductor Products Div.
96906	Military Standards
97539	APM-Hexseal Corp.
98291	Sealectro Corp.

Section II. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE																					
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
			5821-926-7292							A	A001	MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-1004/ARC (This item is nonexpendable)													(-12 1-1)	
P	F									B	A002	ADAPTER, CONNECTOR: 81349; UG274A/U	ea		1	*	*	2	*	*	2	8	12	(-12 1-3)	
P	F									B	A003	ADHESIVE: 71984; RTV732 clear	oz		*	*	2	2	2	2	2	16	32		
P	F		5120-949-6692							B	A004	ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: 65597; 67606-1	ea		1	*	*	*	*	*	*	5	5	(-12 1-3)	
P	F									C	A005	ADHESIVE: 08800; ZV903 purple	pt		*	*	*	*	*	*	*	5	10		
X1	F									C	A006	DRIVE, TUNING: 65597; 117737-0001	ea		1										
X1	F									D	A007	COLLAR, SHAFT: 65597; 078094-0001	ea		1										
X1	F									D	A008	SHAFT, STRAIGHT: 65597; 071625-0001	ea		1										
X1	F									C	A009	DRIVE SHAFT SUBASSEMBLY: 65597; 117738-0001	ea		1										
X1	F									D	A010	KNOB: 65597; 060893-0001	ea		1										
X1	F									D	A011	SHAFT, STRAIGHT: 65597; 071626-0001	ea		1										
X1	F									C	A012	FRAME, ALIGNMENT TOOL: 65597; 078095-0003	ea		1										
X1	F									D	A013	FRAME SECTION, LONG: 65597; 078095-0001	ea		1										
X1	F									D	A014	FRAME SECTION, SHORT: 65597; 078095-0002	ea		1										
X1	F		5320-817-0728							D	A015	RIVET, TUBULAR: 96906; MS16535-53 cadmium plated	ea		3										

SECTION IV

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
X1	F									C	A016	GEAR, BEVEL: 65597; 072565-0001	ea		1										
X1	F		4920-627-8271							D	A017	GEAR, BEVEL: 71041; G460Y	ea		1										
X1	F									C	A018	GEAR, BEVEL: 65597; 072566-0001	ea		1										
X1	F		4920-627-8271							D	A019	GEAR, BEVEL: Same as A017	ea		1										
P	F		5305-866-2765							C	A020	SETSCREW: 96906; MS51053-102	ea		2	*	*	*	*	*	*	5	20		
P	F		5826-948-5286							C	A021	SHIM: 65597; 270214-2	ea		*	*	*	*	*	*	*	5	24		
MO	O									C	A022	TAG, CAUTION: 65597; 104826-0001	ea		1										
P	O									C	A023	TWINE, NYLON: 81349; MILT713, type P, class S2 waxed	ft		2	*	*	*	*	*	*	4	20		
P	F		5330-784-9185							C	A024	WASHER, NONMETALLIC: 65597; 76029	ea		1	*	*	*	*	*	*	4	15		
P	F		5905-073-8220							B	A025	ATTENUATOR, FIXED: 65597; 700060-0002	ea		1	*	*	*	*	*	*	4	10	(-12 1-3)	
X1	F		6680-527-6045							C	A026	ATTENUATOR, FIXED: 28480; 505B	ea		1										
P	O		5115-708-0116							B	A027	BOX, PLASTIC, SMALL PARTS: 65597; 083447-0001	ea		1	*	*	*	*	*	*	5	4	(-12 1-4)	
X1	O									C	A028	BOX, PLASTIC, SMALL PARTS: 28307; 12CD	ea		1										
P	O		5115-708-0111							B	A029	BOX, PLASTIC, SMALL PARTS: 65597; 083448-0001	ea		1	*	*	*	*	*	*	5	4	(-12 1-4)	
X1	O									C	A030	BOX, PLASTIC, SMALL PARTS: Same as A028	ea		1										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL												DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3)	DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	D		8115-708-0084							B	A031	BOX, PLASTIC, SMALL PARTS: 28307, [illegible]	ea		1	*	*	*	*	*	*	5	4	(-1[illegible] 1-3)	
X2	F		5821-933-9607							B	A032	CASE, ELECTRONIC EQUIPMENT MAINTENANCE KIT: 74284, SK686200	ea		1										
												CONTROL, RADIO SET [illegible] (FSN 5821-933-9605)														
P	H		3110-915-5572							C	A034	BALL BEARING: 96906; MS19060-12	ea		8				*	*	2	16	48	(-35 5-4)	194, 197, 203, 206, 239, 242, 248, 251
P	F		6250-604-0752							C	A035	BASE, LAMP: 72914; A4996	ea		3	*	2	2	*	2	2	18	15	(-35 5-4)	115, 116, 117
P	H		5821-738-2856							C	A036	BLOCK, MOUNTING: 65597; 117447-1	ea		1				*	*	*	5	3		
P	H		5305-054-5648							*	A037	SCREW, MACHINE: 96906; MS51957-14	ea		2				*	2	2	40	280	(-35 5-4)	113
P	H		5310-965-1805							*	A038	WASHER, LOCK: 96906; MS35337-78	ea		2				*	2	2	35	300	(-35 5-4)	114
X1	H									D	A039	BLOCK, SWITCH MOUNTING, COMMUNICATION LEFT: 65597; 77917-1	ea		1									(-35 5-4)	185
X1	H									D	A040	DIAL SEGMENT, NUMERAL ONE: 65597; 82316-1	ea		1									(-35 5-4)	188
X1	H									D	A041	GEAR, HELICAL: 65597; 72538-1	ea		1									(-35 5-4)	222
X1	H									D	A042	GEAR, SPUR: 65597; 72530-1	ea		1									(-35 5-4)	219
X1	H									D	A043	PLATE, WHOLE MC DIAL DETENT: 65597; 284525-1	ea		1									(-35 5-4)	191
P	H									D	A044	SCREW, MACHINE: 96906; MS35190-7	ea		2				*	*	*	8	30	(-35 5-4)	186
P	H									D	A045	SCREW, MACHINE: 65597; 302711-1	ea		2				*	*	2	16	80	(-35 5-4)	192, 195

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
																DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	H		5305-054-5636							D	A046	SCREW, MACHINE: 96906; MS51957-2	ea		2				*	*	2	16	80	(-35 5-4)	189
P	H									D	A047	SETSCREW: 65597; 302720-1	ea		2				2	2	2	60	410	(-35 5-4)	269
P	H									D	A048	SPACER, SLEEVE: 65597; 270255-1	ea		2				*	*	*	10	40	(-35 5-4)	187
P	H									D	A049	SPRING, FLAT: 65597; 61237-1	ea		1				*	*	*	5	8	(-35 5-4)	196
P	H									D	A050	SPRING, FLAT: 65597; 61239-1	ea		1				*	*	*	10	16	(-35 5-4)	193
MD	H									D	A051	STUD, TRANSFER PINION MOUNTING: 65597; 302019-1	ea		2									(-35 5-4)	218, 221
P	H		5310-543-4652							D	A052	WASHER, LOCK: 96906; MS35333-69	ea		2				*	*	2	16	80	(-35 5-4)	190
P	H									D	A053	WASHER, SPRING TENSION: 65597; 276367-0001	ea		2				*	*	2	16	120	(-35 5-4)	220, 223
P	H		5821-736-5888							C	A054	BLOCK, SUBASSEMBLY: 65597; 117444-1	ea		1				*	*	*	5	4		
P	H		5305-054-5648							*	A055	SCREW, MACHINE: Same as A037	ea		2									(-35 5-4)	107A
P	H		5310-965-1805							*	A056	WASHER, LOCK: Same as A038	ea		2									(-35 5-4)	108
X1	H									D	A057	BLOCK, SWITCH MOUNTING, NAVIGATION, RIGHT: 65597; 77920-1	ea		1									(-35 5-4)	231
X1	H									D	A058	GEAR, HELICAL: 65597; 72539-1	ea		1									(-35 5-4)	261
X1	H									D	A059	GEAR, SPUR: 65597; 72543-1	ea		1									(-35 5-4)	259
X1	H									D	A060	PLATE, FRACTIONAL MC DIAL DETENT: 65597; 284526-1	ea		1									(-35 5-4)	245

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL												DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3)		DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	H									D	A061	SCREW, MACHINE: Same as A045	ea		2									(-35 5-4)	246, 249
P	H		5305-054-5636							D	A062	SCREW, MACHINE: Same as A046	ea		2									(-35 5-4)	243
P	H									D	A063	SETSCREW: Same as A047	ea		2									(-35 5-4)	270
P	H									D	A064	STUD, TRANSFER PINION MOUNTING: Same as A051	ea		2									(-35 5-4) (-35 5-4)	258, 260
P	H									D	A065	SPRING, FLAT: 65597; 61238-1	ea		1				*	*	*	5	8	(-35 5-4)	247
P	H									D	A066	SPRING, FLAT: Same as A050	ea		1									(-35 5-4)	250
P	H		5310-543-4652							D	A067	WASHER, LOCK: Same as A052	ea		2									(-35 5-4)	244
P	H									D	A068	WASHER, SPRING: Same as A053	ea		2									(-35 5-4)	262
P	H		5821-736-5899							C	A069	BLOCK, SUBASSEMBLY: 65597; 117445-1	ea		1				*	*	*	5	4		
P	H		5305-054-5648							*	A070	SCREW, MACHINE: Same as A037	ea		2									(-35 5-4)	111
P	H		5310-965-1805							*	A071	WASHER, LOCK: Same as A038	ea		2									(-35 5-4)	112
X1	H									D	A072	BLOCK, SWITCH MOUNTING, COMMUNICATION, RIGHT: 65597; 77918-1	ea		1									(-35 5-4)	184
X1	H									D	A073	GEAR, HELICAL: Same as A058	ea		1									(-35 5-4)	216
X1	H									D	A074	GEAR, SPUR: Same as A059	ea		1									(-35 5-4)	214
X1	H									D	A075	PLATE, FRACTIONAL MC DIAL DETENT: Same as A060	ea		1									(-35 5-4)	200
P	H									D	A076	SCREW, MACHINE: Same as A045	ea		2									(-35 5-4)	201, 204

(1) (A) SOURCE CD	(1) (B) MAINT. CD	(1) (C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(10) (B) ITEM OR SYMBOL NUMBER
P	H		5305-054-5636							D	A077	SCREW, MACHINE: Same as A046	ea		2									(-35 5-4)	198
P	H									D	A078	SETSCREW: Same as A047	ea		2									(-35 5-4)	271
P	H									D	A079	SPRING, FLAT: Same as A065	ea		1									(-35 5-4)	202
P	H									D	A080	SPRING, FLAT: Same as A050	ea		1									(-35 5-4)	205
P	H									D	A081	STUD, TRANSFER PINION MOUNTING: Same as A051	ea		2									(-35 5-4)	213, 215
P	H		5310-543-4652							D	A082	WASHER, LOCK: Same as A052	ea		2									(-35 5-4)	199
P	H									D	A083	WASHER, SPRING, TENSION: Same as A053	ea		2									(-35 5-4)	217
P	H		5821-736-5913							C	A084	BLOCK SUBASSEMBLY: 65597; 117446-1	ea		1				*	*	*	5	4		
P	H		5305-054-5648							*	A085	SCREW, MACHINE: Same as A037	ea		2									(-35 5-4)	109
P	H		5310-965-1805							*	A086	WASHER, LOCK: Same as A038	ea		2									(-35 5-4)	110
	H									D	A087	BLOCK, SWITCH MOUNTING NAVIGATION, LEFT: 65597; 77919-1	ea		1									(-35 5-4)	232
X1	H									D	A088	DIAL SEGMENT, NUMERAL ONE: Same as A040	ea		1									(-35 5-4)	235
X1	H									D	A089	GEAR, HELICAL: Same as A041	ea		1									(-35 5-4)	267
X1	H									D	A090	GEAR, SPUR: Same as A042	ea		1									(-35 5-4)	264
X1	H									D	A091	PLATE, WHOLE MC DIAL DETENT: Same as A043	ea		1									(-35 5-4)	236
P	H									D	A092	SCREW, MACHINE: Same as A044	ea		1									(-35 5-4)	233
P	H		5305-151-0206							D	A093	SCREW, MACHINE: 88044; AN505-2R7	ea		1				*	*	*	4	10	(-35 5-4)	

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
																DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3)	DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	H									D	A094	SCREW, MACHINE: Same as A045	ea		2									(-35 5-4)	237, 240
P	H		5305-054-5636							D	A095	SCREW, MACHINE: Same as A046	ea		2									(-35 5-4)	234A
P	H									D	A096	SETSCREW: Same as A047	ea		2									(-35 5-4)	272
P	H									D	A097	SPACER, SLEEVE: Same as A048	ea		2									(-35 5-4)	234
P	H									D	A098	SPRING, FLAT: Same as A049	ea		1									(-35 5-4)	241
P	H									D	A099	SPRING, FLAT: Same as A050	ea		1									(-35 5-4)	238
P	H									D	A100	STUD, TRANSFER PINION MOUNTING: Same as A051	ea		2									(-35 5-4)	263, 266
P	H		5310-543-4652							D	A101	WASHER, LOCK; Same as A052	ea		2									(-35 5-4)	235A
P	H									D	A102	WASHER, SPRING TENSION: Same as A053	ea		2									(-35 5-4)	265, 268
MD	F									C	A103	COVER, ELECTRICAL SWITCH: 65597; 89695-2	ea		1										
P	F									*	A104	SCREW, MACHINE: 96906; MS35190-12	ea		4	*	2	2	*	2	2	20	120	(-35 5-4)	6
MD	F									D	A105	COVER, ELECTRICAL SWITCH: 65597; 89695-1	ea		1									(-35 5-4)	7
MD	H									D	A106	INSULATOR PLATE: 65597; 28225-1	ea		1										
MD	H									C	A107	COVER, ELECTRICAL SWITCH: 65597; 89696-1	ea		1									(-35 5-4)	9
P	H		5821-736-5877							C	A108	DIAL ASSEMBLY: 65597; 117404-1	ea		1				*	*	*	5	5	(-35 5-4)	212
X1	H									D	A109	DIAL, CONTROL: 65597; 82330-1	ea		1										
X1	H									E	A110	DIAL BLANK, TENTHS: 65597; 82319-1	ea		1										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
X1	H									D	A111	DIAL ASSEMBLY, 25KC COMMUNICATION FREQUENCY SELECTOR: 65597; 118044-0001	ea		1										
X1	H									E	A112	DIAL CONTROL: 65597; 82328-1	ea		1										
X1	H									F	A113	DIAL BLANK, 25K: 65597; 82324-1	ea		1										
X1	H									E	A114	SLEEVE SUBASSEMBLY, 25KC DIAL MOUNTING: 65597; 75631-1	ea		1										
X1	H									F	A115	DETENT, DIAL: 65597; 10842-1	ea		1										
X1	H									F	A116	DIAL MECHANISM BODY, FRACTIONAL MC: 65597; 77936-1	ea		1										
X1	H									F	A117	DISC, DIAL LOCKING: 65597; 10837-1	ea		1										
X1	H									F	A118	GEAR, DIAL DRIVING: 65597; 72541-1	ea		1										
X1	H									F	A119	GEAR, HELICAL: 65597; 72544-1	ea		1										
X1	H									F	A120	PIN, GROOVED, HEADLESS: 73957; GP1-047X312-12	ea		1										
X1	H									D	A121	GEAR, SPUR: 65597; 75632-1	ea		1										
X1	H									D	A122	WASHER, FLAT: 65597; 276343-1	ea		1										
X1	H									D	A123	WASHER, SPRING: 65597; 276365-0001	ea		1										
P	H		5821-736-5879							C	A124	DIAL ASSEMBLY: 65597; 117405-1	ea		2				*	*		5	5	(FIG.)	255, 210
X1	H									D	A125	DIAL, CONTROL: 65597; 82327-1	ea		1										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
																DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3)	DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
X1	H									E	A126	DIAL BLANK, UNITS: 65597; 82325-1	ea		1										
X1	H									D	A127	DIAL ASSEMBLY, TENS, FREQUENCY SELECTOR: 65597; 118042-0001	ea		1										
X1	H									E	A128	DIAL CONTROL: 65597; 82326-1	ea		1										
X1	H									F	A129	DIAL BLANK, TENS: 65597; 82323-1	ea		1										
X1	H									E	A130	GEAR, SPUR: 65597; 75639-1	ea		1										
X1	H									D	A131	SLEEVE ASSEMBLY, UNITS DIAL MOUNTING: 65597; 75630-1	ea		1										
X1	H									E	A132	DETENT, DIAL: 65597; 10841-1	ea		1										
X1	H									E	A133	DIAL MECHANISM BODY, WHOLE MC: 65597; 77935-1	ea		1										
X1	H									E	A134	DISC, DIAL LOCKING: 65597; 10838-1	ea		1										
X1	H									E	A135	GEAR, DIAL DRIVING: 65597; 72540-1	ea		1										
X1	H									E	A136	GEAR, HELICAL: 65597; 72527-1	ea		1										
X1	H									F	A137	PIN, GROOVED, HEADLESS: Same as A120	ea		1										
X1	H									D	A138	WASHER, FLAT: Same as A122	ea		1										
X1	H									D	A139	WASHER, SPRING: 65597; 276366-0001	ea		1										
P	H		5821-736-5885							C	A140	DIAL ASSEMBLY: 65597; 117406-1	ea		1				*	*	*	5	5	(-35 5-4)	257
X1	H									D	A141	DIAL, CONTROL: Same as A109	ea		1										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
X1	H									E	A142	DIAL BLANK, TENTHS: Same as A110	ea		1									
X1	H									D	A143	DIAL ASSEMBLY, 50KC NAVIGATION FREQUENCY SELECTOR: 65597; 118043-0001	ea		1									
X1	H									E	A144	DIAL, CONTROL: 65597; 82329-1	ea		1									
X1	H									F	A145	DIAL BLANK, 50KC: Same as A113	ea		1									
X1	H									E	A146	SLEEVE ASSEMBLY, 50KC DIAL MOUNTING: 65597; 75634-1	ea		1									
X1	H									F	A147	DETENT, DIAL: Same as A115	ea		1									
X1	H									F	A148	DIAL MECHANISM BODY, FRACTIONAL MC: Same as A116	ea		1									
X1	H									F	A149	DISC, DIAL LOCKING: 65597; 10839-1	ea		1									
X1	H									F	A150	GEAR, DIAL DRIVING: 65597; 72542-1	ea		1									
X1	H									F	A151	GEAR, HELICAL: Same as A119	ea		1									
X1	H									F	A152	PIN, GROOVED, HEADLESS: Same as A120	ea		1									
X1	H									D	A153	GEAR, SPUR: Same as A121	ea		1									
X1	H									D	A154	WASHER, FLAT: Same as A122	ea		1									
X1	H									D	A155	WASHER, SPRING: Same as A123	ea		1									
P	F		6220-725-6170							C	A156	HOLDER, LAMP: 72914; A5069-14	ea		3	*	2	2	*	2	2	18	30	(-35 5-4)	1

(1) (A) SOURCE CD	(1) (B) MAINT. CD	(1) (C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3)	DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	(B) 21-50	(C) 51-100	GS (A) 1-20	(B) 21-50	(C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F									C	A157	INSULATION SLEEVING, ELECTRICAL: 81343; AMS3651SIZE22 natural	ft		1	*	*	*	*	*	*	[illegible]	30		
P	O		5355-913-9601							C	A158	KNOB: 65597; 60825-2	ea		3	*	*	2	*	*	2	3	21	(-35 5-4)	21
X1	F									D	A159	KNOB: 65597; 60825-1	ea		1										
X1	F									D	A160	POINTER, KNOB: 65597; 60828-1	ea		1										
P	F		5305-959-2727							D	A161	SCREW, MACHINE: 96906; MS35191-201	ea		2	*	*	2	*	*	2	13	60		
P	F		5305-282-4546							D	A162	SETSCREW: 96906; MS51053-127	ea		2	*	2	2	*	2	2	27	170	(-35 5-4)	273
P	O		5355-728-6448							C	A163	KNOB: 65597; 60827-2	ea		4	*	*	2	*	*	2	10	34	(-35 5-4)	20
X1	F									D	A164	KNOB: 65597; 60827-1	ea		1										
P	F		5305-282-4546							D	A165	SETSCREW: Same as A162	ea		2									(-35 5-4)	273
P	O		5355-727-4064							C	A166	KNOB: 65597; 60831-2	ea		1	*	*	*	*	*	*	4	7	(-35 5-4)	22
X1	F									D	A167	KNOB: 65597; 60831-1	ea		1										
P	F		5305-282-4546							D	A168	SETSCREW: Same as A162	ea		2									(-35 5-4)	273
P	O		6240-801-5941							C	A169	LAMP, INCANDESCENT: 71744; 328AS10	ea		3	3	9	16	5	3	4	175	525	(-35 2-2 5-4)	DS5 4
P	O		6240-801-5941							C	A170	LAMP, INCANDESCENT: Same as A169	ea		REF									(-35 2-2 5-4)	DS6 4
P	O		6240-801-5941							C	A171	LAMP, INCANDESCENT: Same as A169	ea		REF									(-35 2-2 5-4)	DS7 4
P	F									C	A172	NUT, PLAIN, KNURLED: 65597; 100558	ea		1	*	*	*	*	*	*	4	10	(-35 5-4)	120
P	F		5330-971-7983							C	A173	PACKING, PREFORMED: 83259; 2-110C147-7	ea		3	*	*	*	*	*	*	8	12	(-35 5-4)	
MD	H									C	A174	PANEL ASSEMBLY, FRONT: METAL: 65597; 117413-1	ea		1									(-35 5-4)	

(1) (A) SOURCE CD	(1) (B) MAINT. CD	(1) (C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(10) (B) ITEM OR SYMBOL NUMBER
MD	H									D	A175	PANEL, FRONT: 65597; 284481-1	ea		1									(-35 5-4)	34
P	F									D	A176	STUD ASSEMBLY, TURNLOCK FASTENER: 65597; 60695-1	ea		4	*	*	*	*	*	*	10	16	(-35 5-4)	274
P	F		5325-989-6033							E	A177	EYELET, TURNLOCK FASTENER: 72794; PC3 1-2	ea		1	*	*	*	*	*	*	10	20		
P	F		5340-989-9948							E	A178	SPRING, HELICAL, COMPRESSION: 72794; PS3 1-2	ea		1	*	*	*	*	*	*	10	20		
P	F		5325-543-2418							E	A179	STUD, TURNLOCK FASTENER: 72794; PF3 1-2 38	ea		1	*	*	*	*	*	*	10	16		
P	H		5821-736-5791							C	A180	PANEL, FRONT, PLASTIC: 65597; 284499-1	ea		1				*	*	*	4	6	(-35 5-4)	5
X1	H									D	A181	PANEL, FRONT: 65597; 284480-1	ea		1										
X1	H									D	A182	WINDOW DIAL: 65597; 65776-1	ea		2									(-35 5-4)	275
MD	F									C	A183	PLATE, IDENTIFICATION: 65597; 266023-0002	ea		1										
MD	F									C	A184	PLATE, RETAINING, ELECTRICAL CONNECTOR: 65597; 284482-1	ea		1									(-35 5-4)	47
MD	F									C	A185	PLATE, SLOT COVER STRIP: 65597; 284528-1	ea		1									(-35 5-4)	54
MD	F									C	A186	POST, ELECTRICAL-MECHANICAL EQUIPMENT: 65597; 77932-1	ea		1									(-35 5-4)	104
MD	F									C	A187	POST, ELECTRICAL-MECHANICAL EQUIPMENT: 65597; 77933-1	ea		1									(-35 5-4)	106
MD	F									C	A188	POST ELECTRICAL-MECHANICAL EQUIPMENT: 65597; 77934-1	ea		2									(-35 5-4)	105, 107

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE																					
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION			(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F		5340-816-4239							C	A189	RING, RETAINING: 79136; 5133-12MD		ea		4	*	*	2	*	*	2	13	30	(-35 5-4)	207, 208, 252, 253
P	F									C	A190	SCREW, MACHINE: Same as A104		ea		8									(-35 5-4)	8, 100, 101, 102, 103
P	F		5305-054-5635							C	A191	SCREW, MACHINE: 96906; MS51957-1		ea		2	*	*	*	*	*	*	10	40		
P	F		5305-054-5646							C	A192	SCREW, MACHINE: 96906; MS51957-12		ea		1	*	*	*	*	*	*	4	10		
P	F		5305-054-5648							C	A193	SCREW, MACHINE: Same as A037		ea		4									(-35 5-4)	45
P	H		3040-880-0497							C	A194	SHAFT, STRAIGHT: 65597; 71595-1		ea		2				*	*	*	5	4	(-35 5-4)	209, 254
MD	H									C	A195	SPACER, SLEEVE: 65597; 270247-1		ea		4									(-35 5-4)	25, 37
MD	H									C	A196	STOP PLATE, NAVIGATION WHOLE MC: 65597; 284495-1		ea		1									(-35 5-4)	228
MD	H									C	A197	STOP PLATE, VHF COMMUNICATION WHOLE MC: 65597; 284494-1		ea		1									(-35 5-4)	180
P	F		5930-723-4562							C	A198	SWITCH, PUSH: 05402; B7001		ea		1	*	*	*	*	*	*	4	15	(-35 2-1 5-4)	S5 44
P	F		5930-998-7568							C	A199	SWITCH ASSEMBLY: 65597; 117448-1		ea		1	*	2	2	*	*	2	12	15		
P	F		5310-857-5548							*	A200	NUT, SELF-LOCKING, HEXAGON: 96906; MS21044-D04		ea		4	*	*	2	*	*	2	16	40	(-35 5-4)	49
P	F		5305-054-5648							*	A201	SCREW, MACHINE: Same as A037		ea		7									(-35 5-4)	48, 177, 181
P	F		5305-054-5652							*	A202	SCREW, MACHINE: 96906; MS51957-18		ea		2	*	*	*	*	*	*	10	40	(-35 5-4)	24
P	F		5305-787-2202							*	A203	SCREW, MACHINE: 65597; 302718-1		ea		1	*	*	*	*	*	*	5	20	(-35 5-4)	179

(1) (A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	(B) 21-50	(C) 51-100	GS (A) 1-20	(B) 21-50	(C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F		5940-156-7431							*	A204	TERMINAL; LUG: 79963; 75-120	ea		1	*	*	*	*	*	*	10	48	(-35 5-4)	183
P	F		5310-965-1805							*	A205	WASHER, LOCK: Same as A038	ea		5									(-35 5-4)	178, 182
P	F		5821-736-5887							D	A206	ARM ASSEMBLY, DETENT: 65597; 117443-1	ea		2	*	*	*	*	*	*	10	40	(-35 5-4)	144, 150
P	F		5305-054-5649							*	A207	SCREW, MACHINE: 96906; MS51957-15	ea		2	*	*	*	*	*	*	16	80	(-35 5-4)	140, 146
P	F		5310-595-6211							*	A208	WASHER, FLAT: 96906; MS15795-803	ea		2	*	2	2	*	2	2	19	150	(-35 5-4)	142, 148
MD	F									*	A209	WASHER, FLAT: 65597; 276341-1	ea		*										
P	F									*	A210	WASHER, LOCK: 96906; MS35338-78	ea		2	*	*	*	*	*	*	10	40	(-35 5-4)	141, 147
MD	F									E	A211	ANCHOR, SPRING: 65597; 10850-1	ea		1										
X1	F									E	A212	ARM, DETENT LEVER: 65597; 10847-1	ea		2										
MD	F									E	A213	SLEEVE, ROLLER BEARING: 65597; 10849-1	ea		1										
MD	F									E	A214	SPACER, SLEEVE: 65597; 10848-1	ea		1										
P	F		6210-918-5679							D	A215	CAP, ELECTRICAL: 97539; 1813-2LW5-20	ea		2	*	*	*	*	*	*	10	40	(-35 5-4)	10
X1	F									D	A216	COLLAR, STOP: 65597; 60830-1	ea		1									(-35 5-4)	137
X1	F									E	A217	COLLAR, STOP: 65597; 60830-2	ea		1										
X1	F									E	A218	PIN, STRAIGHT, HEADLESS: 65597; 60830-3	ea		1										
P	F		5935-051-4779							D	A219	CONNECTOR, RECEPTACLE, ELECTRICAL: 77820; PTO2A20-39PY	ea		1	*	*	*	*	*	*	4	10	(-35 2-1 5-4)	J1 52

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
															DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
MD	F									D	A220	CONTACT, ELECTRICAL: 65597; 82335-1	ea		2								(-35 5-4)	12
P	F									D	A221	DETENT, TRANSCEIVER: 65597; 10845-1	ea		1	*	*	*	*	*	*	5	10	(-35 5-4)	133
P	F		5821-736-5872							D	A222	DETENT, TRANSCEIVER: 65597; 10846-1	ea		1	*	*	*	*	*	*	5	10	(-35 5-4)	124
X1	F		5821-736-5855							D	A223	GEAR, FRICTION: 65597; 72521-1	ea		1									(-35 5-4)	128
X1	F									E	A224	GEAR, SPUR: 65597; 72517-1	ea		1										
X1	F									E	A225	GEARLINK, COMMUNICATION FREQUENCY SELECTOR, FRACTIONAL MC: 65597; 10840-1	ea		1										
MD	F									E	A226	PIN, GROOVED, HEADLESS: Same as A120	ea		2										
X1	F		5821-736-5792							D	A227	GEAR, HELICAL: 65597; 72515-1	ea		2									(-35 5-4)	123, 132
X1	F									D	A228	GEAR, SPUR: 65597; 72514-1	ea		2									(-35 5-4)	26, 30
X1	F		5821-736-5967							D	A229	GEAR, SPUR: 65597; 72545-1	ea		2									(-35 5-4)	121, 130
X1	F		5821-736-5842							D	A230	GEAR, WHOLE: 65597; 72520-1	ea		1									(-35 5-4)	138
X1	F									E	A231	GEAR, SPUR: 65597; 72516-1	ea		1										
X1	F									E	A232	GEARLINK, COMMUNICATION FREQUENCY SELECTOR, WHOLE MC: 65597; 10858-1	ea		1										
MD	F									E	A233	PIN, GROOVED, HEADLESS: Same as A120	ea		2										
X1	F									D	A234	GEAR SUBASSEMBLY, VHF COMMUNICATION FRACTIONAL MC: 65597; 117993-0001	ea		1										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
																DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3)	DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
X1	F		5821-736-5914							E	A235	GEAR, COMPOSITE: 65597; 72524-1	ea		1									(-35 5-4)	72A
X1	F									E	A236	GEAR, SPUR: 65597; 117996-0001	ea		1										
X1	F		5821-736-5993							F	A237	GEAR, SPUR: 65597; 72546-1	ea		1									(-35 5-4)	72B
X1	F									F	A238	SHAFT, SHOULDERED: 65597; 71582-1	ea		1									(-35 5-4)	72
X1	F									E	A239	SHAFT, SHOULDERED: 65597; 71581-1	ea		1										
X1	F									D	A240	GEAR SUBASSEMBLY, VHF COMMUNICATION WHOLE MC: 65597; 117995-0001	ea		1										
X1	F		5821-736-5856							E	A241	GEAR, DRIVING: 65597; 72522-1	ea		1									(-35 5-4)	64A
X1	F									E	A242	GEAR, SPUR: 65597; 117997-0001	ea		1										
X1	F		5821-736-5858							F	A243	GEAR, SPUR: 65597; 72523-1	ea		1									(-35 5-4)	64B
X1	F									F	A244	SHAFT, SHOULDERED: Same as A238	ea		1									(-35 5-4)	64
X1	F									E	A245	SHAFT, SHOULDERED: Same as A239	ea		1										
P	F									D	A246	INSULATION SLEEVING, ELECTRICAL: 81343; AMS3651SIZE11 natural	ft		1	*	*	*	*	*	*	8	16		
P	F									D	A247	INSULATION SLEEVING, ELECTRICAL: 81343; AMS3651SIZE14 natural	ft		1	*	*	*	*	*	*	5	8		
P	F									D	A248	INSULATION SLEEVING, ELECTRICAL: 81343; AMS3651SIZE20 natural	ft		1	*	*	*	*	*	*	5	8		
P	F									D	A249	INSULATION SLEEVING, ELECTRICAL: Same as A157	ft		1										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
															DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F		5970-905-9220							D	A250 INSULATOR, BUSHING: 65597; 75646-1	ea		2	*	*	*	*	*	*	10	24		
P	F		5970-723-9683							D	A251 INSULATOR, BUSHING: 65597; 270288-1	ea		2	*	*	2	*	*	2	13	36	(-35 5-4)	60
P	F		5970-723-9684							D	A252 INSULATOR, BUSHING: 65597; 270288-2	ea		2	*	*	*	*	*	*	10	24	(-35 5-4)	65
P	F		5970-723-9685							D	A253 INSULATOR, BUSHING: 65597; 270288-3	ea		2	*	*	2	*	*	2	13	36	(-35 5-4)	73
P	F		5970-723-9686							D	A254 INSULATOR, BUSHING: 65597; 270288-4	ea		4	*	*	2	*	*	2	13	36	(-35 5-4)	62, 70
P	F		5970-904-6251							D	A255 INSULATOR, BUSHING: 65597; 270288-5	ea		2	*	*	*	*	*	*	5	8	(-35 5-4)	66
P	O		6240-801-5941							D	A256 LAMP, INCANDESCENT: Same as A169	ea		2									(-35 2-1 5-4)	DS1 13
P	O		6240-801-5941							D	A257 LAMP, INCANDESCENT: Same as A169	ea		REF									(-35 2-1 5-4)	DS2 13
P	F		5310-274-8321							D	A258 NUT, SELF-LOCKING, CAP: 72962; 2ZNKM62	ea		2	*	*	*	*	*	*	10	32	(-35 5-4)	55
MD	F									D	A259 PLATE, MOUNTING, RESISTOR-SWITCH: 65597; 284485-1	ea		1									(-35 5-4)	23
MD	F									D	A260 PLATE, REAR CROSS BAR: 81349; 284852-1	ea		1									(-35 5-4)	57
MD	F									D	A261 PLATE, SWITCH MOUNTING: 65597; 284483-1	ea		1									(-35 5-4)	14
MD	F									D	A262 POST, ELECTRICAL-MECHANICAL-EQUIPMENT: 65597; 270283-1	ea		1										
MD	F									D	A263 POST, ELECTRICAL-MECHANICAL-EQUIPMENT: 65597; 270448-0001	ea		1										
P	F									D	A264 RESISTOR, VARIABLE: 01121; GA2G03ZF501BA	ea		1	*	*	*	*	*	*	4	6	(-35 5-4)	33

(1) (A) SOURCE CD	(1) (B) MAINT. CD	(1) (C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(10) (B) ITEM OR SYMBOL NUMBER
	F		5340-816-4239							C	A265 RING, RETAINING: Same as A189	ea		1									(-35 5-4)	75
	F		5305-054-5635							D	A266 SCREW, MACHINE: Same as A191	ea		1										
	F		5305-054-5649							D	A267 SCREW, MACHINE: Same as A207	ea		2										
	F		5305-774-9876							D	A268 SCREW, MACHINE: 65597; 302710-1	ea		2	*	*	*	*	*	*	5	1	(-35 5-4)	78, 79
										D	A269 SETSCREW: Same as A047	ea		18										
	F									D	A270 SETSCREW: 65597; 302721-1	ea		2	*	*	*	*	*	*	5	15		
	F									D	A271 SHAFT, SHOULDERED: 65597; 71580-1	ea		1									(-35 5-4)	129
	F									D	A272 SHAFT, SHOULDERED: 65597; 71587-1	ea		1									(-35 5-4)	139
	F									D	A273 SHAFT, STRAIGHT: 65597; 71590-1	ea		1									(-35 5-4)	77
	F									D	A274 SPACER, SLEEVE: 65597; 270282-1	ea		2									(-35 5-4)	122, 131
	F									D	A275 SPACER, SLEEVE: 65597; 75645-1	ea		2									(-35 5-4)	143, 149
	F									D	A276 SPRING, HELICAL, EXTENSION: 65597; 10851-1	ea		1	*	*	*	*	*	*	5	12	(-35 5-4)	145
	F									D	A277 SWITCH, ROTARY: 15909; 10939	ea		1									(-35 5-4)	29
	F		5930-866-8532							D	A278 SWITCH SECTION, ROTARY: 82104; 28595-720LR	ea		1									(-35 5-4)	71,
	F		5930-866-8531							D	A279 SWITCH SECTION, ROTARY: 82104; 28594-720LR	ea		1									(-35 5-4)	69,
	F		5930-868-1712							D	A280 SWITCH SECTION, ROTARY: 82104; 28593-720LR	ea		1									(-35 5-4)	63,

(1) (A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	(B) 21-50	(C) 51-100	GS (A) 1-20	(B) 21-50	(C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
X1	F		5930-866-8529							D	A281 SWITCH SECTION, ROTARY: 82104; 28592-720LR	ea		1									(-35 5-4)	61,
MD	F									D	A282 TAP BAR, DIAL LIGHT: 65597; 77937-1	ea		1									(-35 5-4)	11
P	F		5940-156-7431							D	A283 TERMINAL LUG: Same as A204	ea		1										
P	F		5310-595-6211							D	A284 WASHER, FLAT: Same as A208	ea		2										
P	F		5310-722-5998							D	A285 WASHER, FLAT: 96906; MS15795-805	ea		*	*	*	*	*	*	*	10	30	(-35 5-4)	56
P	F									D	A286 WASHER, FLAT: 65597; 276325-1	ea		7	*	2	2	*	2	2	27	300	(-35 5-4)	125, 126, 127, 134
P	F									D	A287 WASHER, FLAT: 65597; 276326-1	ea		2	*	*	*	*	*	*	10	60	(-35 5-4)	135
P	F									D	A288 WASHER, FLAT: 65597; 276340-1	ea		*	*	*	*	*	*	*	10	30	(-35 5-4)	76
P	F									D	A289 WASHER, FLAT: Same as A209	ea		*									(-35 5-4)	67
P	F		5310-917-4721							D	A290 WASHER, FLAT: 65597; 276342-1	ea		*	*	*	*	*	*	*	10	30	(-35 5-4)	68
P	F									D	A291 WASHER, FLAT: 65597; 276373-0001	ea		*	*	*	*	*	*	*	10	30	(-35 5-4)	58,59
P	F									D	A292 WASHER, KEY: 65597; 60829-1	ea		3	*	*	*	*	*	*	5	18	(-35 5-4)	136
P	F		5310-550-3715							D	A293 WASHER, LOCK: 96906; MS35333-70	ea		2	*	*	*	*	*	*	10	40		
P	F		5310-058-3829							D	A294 WASHER, LOCK: 96906; MS35338-77	ea		1	*	*	*	*	*	*	10	40		
P	F		5330-785-2129							D	A295 WASHER, NONMETALLIC: 65597; 76102	ea		4	*	*	2	*	*	2	16	90		
P	F		6145-754-8057							D	A296 WIRE, ELECTRICAL: 81349; MILW16878 type 22 black	ft		2	*	*	*	*	*	*	10	24		

(1) (A) SOURCE CD	(1) (B) MAINT. CD	(1) (C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(10) (B) ITEM OR SYMBOL NUMBER
P	F		6145-841-2913							D	A297 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white black green	ft		1	*	*	*	*	*	*	5	12		
P	F		6145-060-9083							D	A298 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white black orange	ft		1	*	*	*	*	*	*	4	6		
P	F									D	A299 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white black red	ft		1	*	*	*	*	*	*	4	6		
P	F									D	A300 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white black violet	ft		3	*	*	*	*	*	*	8	18		
P	F		6145-841-2912							D	A301 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white black yellow	ft		2	*	*	*	*	*	*	5	12		
P	F									D	A302 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white blue orange	ft		1	*	*	*	*	*	*	4	6		
P	F									D	A303 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white brown black	ft		1	*	*	*	*	*	*	4	6		
P	F		6145-841-3247							D	A304 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white brown green	ft		1	*	*	*	*	*	*	4	6		
P	F									D	A305 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white brown orange	ft		1	*	*	*	*	*	*	4	6		
P	F		6145-686-4950							D	A306 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white brown red	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A307 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white brown violet	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A308 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white brown yellow	ft		1	*	*	*	*	*	*	5	12		

(1) (A) SOURCE CD	(1) (B) MAINT. CD	(1) (C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(10) (B) ITEM OR SYMBOL NUMBER
P	F									D	A309	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white green black	ft		1	*	*	*	*	*	*	5	12		
P	F		6145-725-3081							D	A310	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white green blue	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A311	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white green orange	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A312	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white green violet	ft		1	*	*	*	*	*	*	4	6		
P	F									D	A313	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white green yellow	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A314	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white orange black	ft		2	*	*	*	*	*	*	5	12		
P	F		6145-686-4916							D	A315	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white orange blue	ft		1	*	*	*	*	*	*	5	12		
P	F		6145-686-4917							D	A316	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white orange green	ft		1	*	*	*	*	*	*	4	6		
P	F		6145-686-4918							D	A317	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white red blue	ft		1	*	*	*	*	*	*	5	12		
P	F		6145-686-4952							D	A318	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white red orange	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A319	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white red red	ft		1	*	*	*	*	*	*	4	6		
P	F									D	A320	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white red yellow	ft		1	*	*	*	*	*	*	5	12		

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL											DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F									D	A321 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white yellow black	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A322 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white yellow blue	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A323 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white yellow brown	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A324 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white yellow orange	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A325 WIRE, ELECTRICAL: 81349; MILW16878 type E22 white yellow red	ft		1	*	*	*	*	*	*	5	12		
P	F									D	A326 WIRE, ELECTRICAL: 81348; QQW343 type S22 AWG annealed tinned	ft		1	*	*	*	*	*	*	8	18		
P	F		5930-998-7569							C	A327 SWITCH ASSEMBLY: 65597; 117449-1	ea		1	*	2	2	*	*	2	12	15		
P	F		5310-857-5548							*	A328 NUT, SELF-LOCKING, HEXAGON: Same as A200	ea		4									(-35 5-4)	51
P	F		5305-054-5648							*	A329 SCREW, MACHINE: Same as A037	ea		7									(-35 5-4)	224,229
P	F		5305-054-5652							*	A330 SCREW, MACHINE: Same as A202	ea		2									(-35 5-4)	36
P	F		5305-787-2202							*	A331 SCREW, MACHINE: Same as A203	ea		1									(-35 5-4)	227
P	F		5940-156-7431							*	A332 TERMINAL, LUG: Same as A204	ea		1									(-35 5-4)	226
P	F		5310-965-1805							*	A333 WASHER, LOCK: Same as A038	ea		5									(-35 5-4)	225, 230
P	F		5821-736-5887							D	A334 ARM ASSEMBLY DETENT: Same as A206	ea		2									(-35 5-4)	170, 176

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
																DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F		5305-054-5649							*	A335	SCREW, MACHINE: Same as A207	ea		2									(-35 5-4)	166, 172
P	F		5310-595-6211							*	A336	WASHER, FLAT: Same as A208	ea		2									(-35 5-4)	168, 174
P	F									*	A337	WASHER, LOCK: Same as A210	ea		2									(-35 5-4)	167, 173
P	F									E	A338	ANCHOR, SPRING: Same as A211	ea		1										
P	F									E	A339	ARM, DETENT LEVER: Same as A212	ea		2										
P	F									E	A340	SLEEVE, ROLLER BEARING: Same as A213	ea		1										
P	F									E	A341	SPACER, SLEEVE: Same as A214	ea		1										
P	F									D	A342	CAP, ELECTRICAL: Same as A215	ea		2									(-35 5-4)	15
P	F									D	A343	CONNECTOR, RECEPTACLE, ELECTRICAL: 77820; PT02A20-39PZ	ea		1	*	*	*	*	*	*	4	12	(-35 5-4)	53
MO	F									D	A344	CONTACT, ELECTRICAL: Same as A220	ea		2									(-35 5-4)	17
MO	F									D	A345	CROSSBAR, REAR, NAVIGATION FREQUENCY SELECTOR SWITCH: 65597; 77921-1	ea		1									(-35 5-4)	82
I	F									D	A346	DETENT, TRANSCEIVER: Same as A221	ea		1									(-35 5-4)	154
P	F		5821-736-5872							D	A347	DETENT, TRANSCEIVER: Same as A222	ea		1									(-35 5-4)	160
X1	F		5821-736-5944							D	A348	GEAR, FRICTION: 65597; 72529-1	ea		1									(-35 5-4)	164
X1	F		5821-736-5792							D	A349	GEAR, HELICAL: Same as A227	ea		2									(-35 5-4)	153, 159
X1	F									D	A350	GEAR, SPUR: Same as A228	ea		1									(-35 5-4)	38

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
																DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP CNTGCY PL	DEPOT MAINT ALW PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
X1	F		5821-736-5967							D	A351 GEAR, SPUR: Same as A229		ea		1									(-35 5-4)	151
X1	F		5821-736-5915							D	A352 GEAR, WHOLE: 65597; 72525-1		ea		1									(-35 5-4)	157
X1	F									D	A353 GEAR SUBASSEMBLY, NAVIGATION FREQUENCY SELECTOR: 65597; 117994-0001		ea		1										
X1	F									E	A354 GEAR, SPUR: 65597; 117998-0001		ea		1										
X1	F		5821-736-5836							F	A355 GEAR, SPUR: 65597; 72518-1		ea		1									(-35 5-4)	92B
MD	F									F	A356 SHAFT, SHOULDER: 65597; 71586-1		ea		1									(-35 5-4)	92
X1	F		5821-736-5839							E	A357 GEAR, SPUR: 65597; 72519-1		ea		1									(-35 5-4)	92A
X1	F									F	A358 GEAR, SPUR: 65597; 72519		ea		1										
MD	F									F	A359 PIN, STRAIGHT, HEADED: 65597; 74351-1		ea		1										
MD	F									E	A360 SHAFT, SHOULDERED: 65597; 71585-1		ea		1										
P	F									D	A361 INSULATOR SLEEVING, ELECTRICAL: Same as A246		ft		1										
P	F									D	A362 INSULATOR SLEEVING, ELECTRICAL: Same as A247		ft		1										
P	F									D	A363 INSULATOR SLEEVING, ELECTRICAL: Same as A248		ft		1										
P	F									D	A364 INSULATOR SLEEVING, ELECTRICAL: Same as A157		ft		1										
P	F		5970-905-9220							D	A365 INSULATOR, BUSHING: Same as A250		ea		2										
P	F		5970-723-9683							D	A366 INSULATOR, BUSHING: Same as A251		ea		4									(-35 5-4)	87, 90

(1) (A) SOURCE CD	(1) (B) MAINT. CD	(1) (C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(10) (B) ITEM OR SYMBOL NUMBER
P	F		5970-723-9684							D	A367 INSULATOR, BUSHING: Same as A252	ea		2									(-35 5-4)	93
P	F		5970-723-9685							D	A368 INSULATOR, BUSHING: Same as A253	ea		4									(-35 5-4)	86, 89
P	F		5970-723-9686							D	A369 INSULATOR, BUSHING: Same as A254	ea		2									(-35 5-4)	84
P	O		6240-801-5941							C	A370 LAMP, INCANDESCENT: Same as A169	ea		2									(-35 2-3 5-4)	DS3 18
P	O		6240-801-5941							C	A371 LAMP, INCANDESCENT: Same as A169	ea		REF									(-35 2-3 5-4)	DS4 18
P	F		5310-274-8321							D	A372 NUT, SELF-LOCKING CAP: Same as A258	ea		2									(-35 5-4)	80
P	F									D	A373 PLATE, MOUNTING, RESISTOR-SWITCH: Same as A259	ea		1									(-35 5-4)	35
P	F									D	A374 PLATE, SWITCH MOUNTING: Same as A261	ea		1									(-35 5-4)	19
P	F									D	A375 POST, ELECTRICAL-MECHANICAL-EQUIPMENT: SAME AS A262	ea		1										
P	F		5340-816-4239							C	A376 RING, RETAINING: Same as A189	ea		1									(-35 5-4)	95
P	F		5305-054-5635							D	A377 SCREW, MACHINE: Same as A191	ea		1										
P	F		5305-054-5649							*	A378 SCREW, MACHINE: Same as A207	ea		2										
P	F		5305-774-9874							D	A379 SCREW, MACHINE: 65597; 302709-1	ea		2	*	*	*	*	*	*	5	20	(-35 5-4)	98, 99
P	H									D	A380 SETSCREW: Same as A047	ea		15										
MD	F									D	A381 SHAFT, SHOULDERED: Same as A271	ea		1									(-35 5-4)	158
MD	F									D	A382 SHAFT, STRAIGHT: 65597; 71589-1	ea		1									(-35 5-4)	97

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
MD	F									D	A383 SHAFT, STRAIGHT: 65597; 71596-1	ea		1									(-35 5-4)	165
MD	F									D	A384 SPACER, SLEEVE: Same as A274	ea		1									(-35 5-4)	152
MD	F									D	A385 SPACER, SLEEVE: Same as A275	ea		2									(-35 5-4)	169, 175
P	F									D	A386 SPRING, HELICAL, EXTENSION: Same as A276	ea		1									(-35 5-4)	171
XD	F									D	A387 SWITCH, ROTARY: Same as A277	ea		1									(-35 5-4)	S7 41
XD	F									D	A388 SWITCH, SECTION, ROTARY: 82104; 28598-720LR	ea		1									(-35 5-4)	91,
XD	F		5930-866-8534							D	A389 SWITCH, SECTION, ROTARY: 82104; 28597-720LR	ea		1									(-35 5-4)	88,
XD	F		5930-866-8533							D	A390 SWITCH, SECTION, ROTARY: 82104; 28596-720LR	ea		1									(-35 5-4)	85,
MD	F									D	A391 TAP BAR, DIAL LIGHT: Same as A282	ea		1										
P	F		5940-156-7431							D	A392 TERMINAL, LUG: Same as A204	ea		1										
P	F		5310-595-6211							*	A393 WASHER, FLAT: Same as A208	ea		2										
P	F									D	A394 WASHER, FLAT: Same as A286	ea		6									(-35 5-4)	155, 161, 162, 163
P	F									D	A395 WASHER, FLAT: Same as A287	ea		2									(-35 5-4)	156
P	F									D	A396 WASHER, FLAT: Same as A288	ea		*									(-35 5-4)	96
P	F		5310-917-4721							D	A397 WASHER, FLAT: Same as A290	ea		*									(-35 5-4)	83
P	F		5310-550-3715							D	A398 WASHER, LOCK: Same as A293	ea		2										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
																DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
	F		5310-058-3829							D	A399	WASHER, LOCK: Same as A294	ea		1									
	F		5330-785-2129							D	A400	WASHER, NONMETALLIC: Same as A295	ea		4									
	F		6145-754-8057							D	A401	WIRE, ELECTRICAL: Same as A296	ft		2									
	F		6145-841-2913							D	A402	WIRE, ELECTRICAL: Same as A297	ft		2									
	F									D	A403	WIRE, ELECTRICAL: Same as A300	ft		2									
	F		6145-841-2912							D	A404	WIRE, ELECTRICAL: Same as A301	ft		1									
	F		6145-686-4950							D	A405	WIRE, ELECTRICAL: Same as A306	ft		1									
	F									D	A406	WIRE, ELECTRICAL: Same as A307	ft		2									
	F									D	A407	WIRE, ELECTRICAL: Same as A309	ft		2									
	F		6145-723-6081							D	A408	WIRE, ELECTRICAL: Same as A310	ft		2									
	F									D	A409	WIRE, ELECTRICAL: Same as A311	ft		2									
	F									D	A410	WIRE, ELECTRICAL: Same as A313	ft		1									
	F									D	A411	WIRE, ELECTRICAL: Same as A314	ft		1									
	F		6145-686-4916							D	A412	WIRE, ELECTRICAL: Same as A315	ft		1									
	F									D	A413	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white orange red	ft		2	*	*	*	*	*	*	5	12		
	F		6145-686-4918							D	A414	WIRE, ELECTRICAL: Same as A317	ft		1									

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
																DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F		6145-686-4952							D	A415	WIRE, ELECTRICAL: Same as A318	ft		2										
P	F									D	A416	WIRE, ELECTRICAL: Same as A320	ft		2										
P	F									D	A417	WIRE, ELECTRICAL: Same as A321	ft		2										
P	F									D	A418	WIRE, ELECTRICAL: Same as A322	ft		2										
P	F									D	A419	WIRE, ELECTRICAL: Same as A323	ft		1										
P	F									D	A420	WIRE, ELECTRICAL: Same as A324	ft		2										
P	F									D	A421	WIRE, ELECTRICAL: Same as A325	ft		1										
P	F									D	A422	WIRE, ELECTRICAL: Same as A326	ft		1										
P	F		5940-081-2939							C	A423	TERMINAL, STUD: 71279; 1947-1	ea		1	*	*	*	*	*	*	4	6	(-35 5-4)	
P	F		5340-962-5523							C	A424	WASHER, FLAT: 65597; 276286-1	ea		2	*	*	*	*	*	*	5	20	(-35 5-4)	211, 256
P	F									C	A425	WASHER, NONMETALLIC: 65597; 276344-1	ea		1									(-35 5-4)	2
P	F		5310-965-1805							C	A426	WASHER, LOCK: Same as A038	ea		3										
P	F		5310-058-3829							C	A427	WASHER, LOCK: Same as A294	ea		2										
P	F									C	A428	WASHER, SPRING: 65597; 276368-0001	ea		4	*	*	*	*	*	*	10	40		
P	F		6145-548-0969							C	A429	WIRE, ELECTRICAL: 81349; MILW16878 type E22 white	ft		1	*	*	*	*	*	*	4	6		
P	F									C	A430	WIRE, ELECTRICAL: Same as A326	ft		1										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW						(8)	(9)	(10) ILLUSTRATIONS	
															DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F		5821-933-9606							B	A431 DETECTOR: RADIO FREQUENCY: 65597; 117875-0001	ea		1	*	*		*	*		12	6	(-12 1-4)	
X1	F		5910-946-6784							C	A432 CAPACITOR, FIXED, MICA DIELECTRIC: 72136; DM10F251G0500WV4CR	ea		1										
X1	F		5905-683-3129							C	A433 RESISTOR, FIXED, COMPOSITION: 81349; RC07GF104J	ea		1										
X1	F		5961-556-2091							C	A434 SEMICONDUCTOR DEVICE, DIODE: 81349; 1N270	ea		1										
X1	F									C	A435 TERMINAL BOARD: 65597; 285053-0003	ea		1										
P	F		5940-865-3216							D	A436 TERMINAL, STUD: 71279; 2041-2	ea		1	*	*	*	*	*	*	4	6		
P	F		5940-280-0600							D	A437 TERMINAL, STUD: 71279; 2042-2	ea		2	*	*	*	*	*	*	5	10		
X1	F									D	A438 TERMINAL, BOARD: 65597; 285053-0002	ea		1										
P	O		5920-280-8342							B	A439 FUSE, CARTRIDGE: 81349; F02A250V1A	ea		5	2	2	3	2	2	2	33	450	(-12 3-1)	
P	O		5920-727-1452							B	A440 FUSE, CARTRIDGE:	ea		5	2	3	5	2	2	2	46	525	(-12 3-1)	
P	O		5920-686-1107							B	A441 FUSEHOLDER: 28480; 11509A	ea		1	*	*	2	*	*	2	8	12	(-12 1-3)	
P	O		5920-804-5028							C	A442 FUSE, CARTRIDGE: 28480; 2110-0026	ea		10	2	3	6	2	2	2	107	750	(-12 3-3)	
P	O		6240-155-7836							B	A443 LAMP, INCANDESCENT: 96906; MS25237-327	ea		2	2	4	7	2	2	2	89	225	(-12 3-1)	
P	O		6240-155-7857							B	A444 LAMP, INCANDESCENT: 96906; MS25237-328	ea		2	2	4	7	2	2	2	89	225	(-12 3-1)	
P	F									B	A445 NUT, SELF LOCKING, HEXAGON: 72982; 68M40	ea		2	*	*	*	*	*	*	5	20		

(1) (A) SOURCE CD	(1) (B) MAINT. CD	(1) (C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	(B) 21-50	(C) 51-100	GS (A) 1-20	(B) 21-50	(C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
											PANEL, TEST, ELECTRICAL GROUP (FSN 5821-933-9608)													
P	F		5305-059-3659							*	A447 SCREW, MACHINE: 96906; MS51958-63	ea		4	*	*	*	*	*	*	10	40		
P	F		5310-619-1148							*	A448 WASHER, FLAT: 96906; MS15795-808	ea		4	*	*	2	*	*	2	13	60		
P	F									C	A449 ADHESIVE: Same as A005	pt		*										
P	F		6150-933-9805							C	A450 CABLE ASSEMBLY, POWER, ELECTRICAL: 65597; 432959-0001	ea		1	*	*	*	*	*	*	5	10	(-12 1-3)	
P	F		6145-284-0579							D	A451 CABLE, POWER, ELECTRICAL: 81349; 3201	ea		1	*	*	*	*	*	*	4	6		
P	F		5975-988-0649							D	A452 CABLE NIPPLE, ELECTRICAL: 41340 26 black	ea		1	*	*	*	*	*	*	4	10		
P	F									D	A453 CABLE NIPPLE, ELECTRICAL: 65597; 028255-0001	ea		1	*	*	*	*	*	*	4	10		
P	F									E	A454 CABLE NIPPLE, ELECTRICAL: 76545; 26 red	ea		1	*	*	*	*	*	*	5	15		
P	F									D	A455 CABLE NIPPLE, ELECTRICAL: 65597; 028255-0002	ea		1	*	*	*	*	*	*	4	10		
P	F									E	A456 CABLE NIPPLE, ELECTRICAL: Same as A454	ea		1										
P	F		5940-788-5655							D	A457 CLIP, ELECTRICAL: 76545; 25C	ea		3	*	*	*	*	*	*	8	18		
P	F									D	A458 INSULATOR SLEEVING, ELECTRICAL: 08795; RNF100 3-8 type 2	ft		1	*	*	*	*	*	*	4	6		
P	F									D	A459 INSULATOR SLEEVING, ELECTRICAL: 71124; TURBOLEX85	ft		1	*	*	*	*	*	*	4	6		
P	F		5940-204-8966							D	A460 TERMINAL, LUG: 00779; 31882	ea		3	*	2	2	*	2	2	46	300		

(1) (A) SOURCE CD	(1) (B) MAINT. CD	(1) (C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(10) (B) ITEM OR SYMBOL NUMBER
P	F		5940-557-1629							D	A461	TERMINAL, LUG: 00779; 31888	ea		3	*	*	*	*	*	*	8	30		
P	F		5910-822-5682							C	A462	CAPACITOR, FIXED, CERAMIC DIELECTRIC: 81349; CK62BX102M	ea		1	*	2	2	*	*	2	12	8		
P	F		5340-682-1617							C	A463	CLAMP, LOOP: 96906; MS21919DG12	ea		1	*	*	*	*	*	*	4	10		
P	F		5935-843-9008							C	A464	CONNECTOR, RECEPTACLE, ELECTRICAL: 96906; MS35179-1094	ea		2	*	*	*	*	*	*	5	12	(-35 2-1)	J2
P	F									C	A465	CONNECTOR, RECEPTACLE, ELECTRICAL: Same as A464	ea		REF									(-35 2-1)	J3
P	O		5920-280-8342							C	A466	FUSE, CARTRIDGE: Same as A439	ea		1									(-35 2-1)	F3
P	O		5920-727-1452							C	A467	FUSE, CARTRIDGE: Same as A440	ea		2									(-35 2-1)	F1
P	O		5920-727-1452							C	A468	FUSE, CARTRIDGE: Same as A440	ea		REF									(-35 2-1)	F2
P	F		5920-505-1398							C	A469	FUSE HOLDER: 71400;HKPE	ea		3	*	*	2	*	*	2	9	36		
P	F		5920-505-1398							C	A470	FUSEHOLDER: Same as A469	ea		REF										
P	F		5920-505-1398							C	A471	FUSEHOLDER: Same as A469	ea		REF										
P	F									D	A472	CAP, ELECTRICAL: 71400; 9435F1-2	ea		3	*	*	*	*	*	*	8	18		
P	F									C	A473	INSULATOR SLEEVING, ELECTRICAL: 81343; AMS3651SIZE18 natural	ft		1	*	*	*	*	*	*	4	6		
P	F		5935-234-2076							C	A474	JACK, TELEPHONE: 37942; B113812	ea		2	*	*	*	*	*	*	5	10	(-35 2-1)	J4
P	F		5935-234-2076							C	A475	JACK, TELEPHONE: Same as A474	ea		REF									(-35 2-1)	J5
P	F		5935-192-4729							C	A476	JACK, TELEPHONE: 81349; JJ033	ea		1	*	*	*	*	*	*			(-35 2-1)	J22

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL												DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	O		5355-914-1974							C	A477	KNOB: 65597; 60848-1	ea		1	*	*	*	*	*	*	4	7		
P	O		6240-155-7836							C	A478	LAMP, INCANDESCENT: Same as A443	ea		1									(-35 2-3)	DS2
P	O		6240-155-7857							C	A479	LAMP, INCANDESCENT: Same as A444	ea		1									(-35 2-3)	DS1
P	O		6210-[illegible]-7803							C	A480	LIGHT, INDICATOR: 72619; 101-5030-0931	ea		2	*	2	2	*	2	2	13	26	(-12 3-1)	XDS1
P	O		6210-[illegible]-7803							C	A481	LIGHT, INDICATOR: Same as A480	ea		REF									(-12 3-1)	XDS2
P	O		6210-842-1679							D	A482	LENS, INDICATOR LIGHT: 72619; 101-0931	ea		2	*	*	2	*	*	2	10	16	(-12 3-1)	
P	F		5340-619-0165							C	A483	LINK, TERMINAL CONNECTING: 75382; 601SP	ea		2	*	*	*	*	*	*	5	12		
P	F		5310-622-1724							C	A484	NUT, SELF-LOCKING, HEXAGON: 72962; 68-1660-26	ea		2	*	*	*	*	*	*	5	20		
P	F		5310-680-7543							C	A485	NUT, SELF-LOCKING; HEXAGON: 72962; 68NM62	ea		5	*	*	2	*	*	2	12	50		
MD	F									C	A486	PANEL, TEST: 65597; 285033-0003	ea		1										
MD	F									D	A487	PANEL, TEST: 65597; 285033-0002	ea		1										
P	F		5325-530-9034							D	A488	RECEPTACLE, TURNLOCK FASTENER: 72794;SX560	ea		4	*	*	*	*	*	*	10	24		
P	F		5320-117-6938							D	A489	RIVET, SOLID: 96906; MS20426AD3-4	ea		8	*	*	2	*	*	2	16	60		
MD	O									C	A490	PLATE, IDENTIFICATION: 65597; 266022-0002	ea		1										
P	F		5940-223-5295							C	A491	POST, BINDING: 58474; DF30BC	ea		6	*	*	2	*	*	2	13	30	(-35 2-1)	J7
P	F		5940-223-5295							C	A492	POST, BINDING: Same as A491	ea		REF									(-35 2-1)	J9

(1) (A) SOURCE CD	(1) (B) MAINT. CD	(1) (C) REC. CODE	REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UN PK	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW DS (A) 1-20	(B) 21-50	(C) 51-100	GS (A) 1-20	(B) 21-50	(C) 51-100	(8) 1 YR ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F		5940-223-5295							C	A493 POST, BINDING: Same as A491	ea		REF									(-35 2-1)	J11
P	F		5940-223-5295							C	A494 POST, BINDING: Same as A491	ea		REF									(-35 2-1)	J14
P	F		5940-223-5295							C	A495 POST, BINDING; Same as A491	ea		REF									(-35 2-1)	J17
P	F		5940-223-5295							C	A496 POST, BINDING: Same as A491	ea		REF									(-35 2-1)	J20
P	F		5940-356-2493							C	A497 POST, BINDING: 58474; DF30RC	ea		10	*	2	2	*	2	2	20	40	(-35 2-1)	J6
P	F		5940-356-2493							C	A498 POST, BINDING: Same as A497	ea		REF									(-35 2-1)	J8
P	F		5940-356-2493							C	A499 POST, BINDING: Same as A497	ea		REF									(-35 2-1)	J10
P	F		5940-356-2493							C	A500 POST, BINDING: Same as A497	ea		REF									(-35 2-1)	J12
P	F		5940-356-2493							C	A501 POST, BINDING: Same as A497	ea		REF									(-35 2-1)	J13
P	F		5940-356-2493							C	A502 POST, BINDING: Same as A497	ea		REF									(-35 2-1)	J15
P	F		5940-356-2493							C	A503 POST, BINDING: Same as A497	ea		REF									(-35 2-1)	J16
P	F		5940-356-2493							C	A504 POST, BINDING: Same as A497	ea		REF									(-35 2-1)	J18
P	F		5940-356-2493							C	A505 POST, BINDING: Same as A497	ea		REF									(-35 2-1)	J19
P	F		5940-356-2493							C	A506 POST, BINDING: Same as A497	ea		REF									(-35 2-1)	J21
P	F		5905-299-2020							C	A507 RESISTOR, FIXED, COMPOSITION: 81349; RC32GF273J	ea		1	*	2	2	*	*	2	10	7	(-35 2-1)	R3

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
															DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F		5905-279-2650							C	A508	RESISTOR, FIXED, COMPOSITION: 81349; RC32GF562J	ea		1	*	2	2	*	*	2	12	7	(-35 2-1)	R2
P	F		5905-[illegible]							C	A509	RESISTOR, VARIABLE: 01121; [illegible]	ea		1	*	2	2	*	2	2	19	8	(-35 2-1)	R1
P	F		5305-054-6654							C	A510	SCREW, MACHINE: 96906; MS51957-30	ea		1	*	*	*	*	*	*	4	10		
P	F		5305-054-6656							C	A511	SCREW, MACHINE: 96906; MS51957-32	ea		4	*	*	*	*	*	*	10	40		
P	F		5305-054-5638							C	A512	SCREW, MACHINE: 96906; MS51957-4	ea		2	*	*	*	*	*	*	5	20		
P	F		5961-170-4430							C	A513	SEMICONDUCTOR DEVICE, DIODE: 93332; 1N34A	ea		1	*	2	2	*	*	2	13	12	(-35 2-1)	CR1
P	F		5305-717-6950							C	A514	SETSCREW: 96906; MS51963-9	ea		2	*	*	*	*	*	*	5	20		
P	F		5930-655-1514							C	A515	SWITCH, TOGGLE: 96906; MS35058-22	ea		4	*	2	2	*	2	2	29	60	(-35 2-1)	S1
P	F		5930-655-1514							C	A516	SWITCH, TOGGLE: Same as A515	ea		REF									(-35 2-1)	S2
P	F		5930-655-1514							C	A517	SWITCH, TOGGLE: Same as A515	ea		REF									(-35 2-1)	S3
P	F		5930-655-1514							C	A518	SWITCH, TOGGLE: Same as A515	ea		REF									(-35 2-1)	S4
P	F		5930-655-1575							C	A519	SWITCH, TOGGLE: 96906; MS35059-22	ea		1	*	2	2	*	*	2	12	15	(-35 2-1)	S5
P	F		5940-329-5754							C	A520	TERMINAL, LUG: 37942; A131023-1	ea		4	*	*	*	*	*	*	10	40		
P	F		[illegible]							C	A521	TERMINAL BOARD: 65597; 284761-3	ea		1	*	*	2	*	*	*	8	9		
[illegible]	F		5940-834-9660							D	A522	TERMINAL, STUD: 98291; ST1000SL	ea		4	*	*	*	*	*	*	10	16		
X1	F									D	A523	TERMINAL BOARD: 65597; 284761-2	ea		1										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW						(8)	(9)	(10) ILLUSTRATIONS	
																DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION		UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1YR ALW PER 100 EQUIP CNTGCY PL	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F									C	A524	TERMINAL BOARD: 71785; 4-141AFV	ea		1	*	*	*	*	*	*	4	10	(-35 2-1)	TB1
P	F		5310-722-5998							C	A525	WASHER, FLAT: Same as A285	ea		1										
P	F		5310-619-1148							C	A526	WASHER, FLAT: Same as A448	ea		2										
P	F		5310-543-5933							C	A527	WASHER, LOCK: 96906; MS35333-73	ea		14	*	2	2	*	2	2	27	140		
P	F		5310-543-2740							C	A528	WASHER, LOCK: 96906; MS35333-74	ea		1	*	*	*	*	*	*	4	10		
P	F		5310-180-0277							C	A529	WASHER, LOCK: 96906; MS35333-76	ea		2	*	*	*	*	*	*	5	20		
P	F		5310-058-2951							C	A530	WASHER, LOCK: 96906; MS35337-81	ea		14	*	2	2	*	2	2	27	140		
P	F		5310-011-1041							C	A531	WASHER, LOCK: 96906; MS35338-79	ea		8	*	*	2	*	*	2	16	80		
P	F		5310-054-1831							C	A532	WASHER, LOCK: 96906; MS35338-81	ea		2	*	*	*	*	*	*	5	20		
P	F,		5310-595-7154							C	A533	WASHER, LOCK: 78189; 1720-02	ea		3	*	*	*	*	*	*	8	30		
P	F		6145-754-8057							C	A534	WIRE, ELECTRICAL: Same as A296	ft		1										
P	F		6145-623-7224							C	A535	WIRE, ELECTRICAL: 81349; MILW16878 type E22 red	ft		1	*	*	*	*	*	*	4	6		
P	F									C	A536	WIRE, ELECTRICAL: 81349; MILW3861 type S18AWG annealed tinned	ft		1	*	*	*	*	*	*	4	6		
MD	H									C	A537	WIRING, HARNESS, BRANCH: 65597; 432956-0001	ea		1										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
															DS			GS						
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
MD	F									D	A538 BRACKET, ELECTRICAL CONNECTOR: 65597; 92561-1	ea		1										
MD	F									D	A539 BRACKET, ELECTRICAL CONNECTOR: 65597; 92561-2	ea		1										
MD	F									E	A540 BRACKET, ELECTRICAL CONNECTOR: Same as A538	ea		1										
P	F		6145-771-3336							D	A541 CABLE, RADIO FREQUENCY: 81349; RG58AU	ft		6	*	*	*	*	*	*	24	36		
P	F		6145-669-6701							D	A542 CABLE, SPECIAL, ELECTRICAL: 81349; MILW16878 type B22 JSJ black	ft		6	*	*	*	*	*	*	24	36		
P	H									D	A543 CABLE, SPECIAL, ELECTRICAL: 71124; T2402-2-20	ft		26	*	*	*	*	*	*	52	78		
P	H									D	A544 CABLE, SPECIAL, ELECTRICAL: 71124; T2402-3-22-19STR	ft		6	*	*	*	*	*	*	24	36		
P	F		5935-937-8296							D	A545 CONNECTOR, PLUG, ELECTRICAL: 71468; 228550-4	ea		1	*	*	*	*	*	*	5	14		
P	H		5935-914-2384							D	A546 CONNECTOR, PLUG, ELECTRICAL: 96906; MS3116E20-39SY	ea		1				*	*	*	5	14	(-35 2-1)	P1
P	H									D	A547 CONNECTOR, PLUG, ELECTRICAL: 96906; MS3116E20-39S2	ea		1				*	*	*	5	14		
P	F		5935-823-0487							D	A548 CONNECTOR, PLUG, ELECTRICAL: 96906; MS35168-88E	ea		1	*	*	*	*	*	*	5	14	(-35 2-1)	J1
P	F									D	A549 INSULATOR SLEEVING, ELECTRICAL: Same as A246	ft		1										
P	H									D	A550 INSULATOR SLEEVING, ELECTRICAL: 81343; AMS3651SIZE15 natural	ft		1				*	*	*	4	6		

(1) (A) SOURCE CD	(1) (B) MAINT CD	(1) (C) REC	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT	(6) QTY INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR. ALW PER 100 EQUIP CNTGCY PL.	(9) DEPOT MAINT ALW. PER 100 EQUIP.	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(10) (B) ITEM OR SYMBOL NUMBER
	H									D	A551 INSULATOR SLEEVING, ELECTRICAL: 81343; AMS3651SIZE15 yellow	ft		1				*	*	*	4			
	H									D	A552 INSULATOR SLEEVING, ELECTRICAL: 81343; AMS3651SIZE16 natural	ft		2				*	*	*	5	12		
	H		5970-754-9716							D	A553 INSULATOR SLEEVING, ELECTRICAL: 81349; MIL17444SIZE5-8INCH	ft		4				*	*	*	12	16		
	F		5310-614-1500							D	A554 NUT, SELF-LOCKING, HEXAGON: 72962; 68-1660-40	ea		4	*	*	*	*	*	*	10	40		
	H		5940-502-8806							D	A555 SPLICE, CONDUCTOR: 00779; 320562	ea		3				*	*	*	8	24		
	H									D	A556 TAPE, LACING AND TYING: 82110; GUDELACE 18	ft		26				*	*	*	52	52		
			5940-204-8966							D	A557 TERMINAL, LUG: Same as A460	ea		27										
	H		5940-577-3711							D	A558 TERMINAL, LUG: 00779; 31889	ea		2				*	*	*	5	20		
	H		6145-295-2812							D	A559 WIRE, ELECTRICAL: 81349; MILW16878 type E16 white	ft		29				*	*	*	58	87		
	H		6145-295-2810							D	A560 WIRE, ELECTRICAL: 81349; MILW16878 type E20 white	ft		3				*	*	*	12	24		
	F		6145-754-8057							D	A561 WIRE, ELECTRICAL: Same as A296	ft		6										
										B	A562 PLATE, IDENTIFICATION: 65597; 267498-0002	ea		1										
	F									B	A563 RUBBER CHANNEL: 14370; 887	ft		1	*	*	*	*	*	*	4	6		
	F		5305-054-5648							B	A564 SCREW, MACHINE: Same as A037	ea		2										
	F		5961-170-4430							B	A565 SEMICONDUCTOR DEVICE, DIODE: Same as A513	ea		1										

(1)			REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
(A) SOURCE CD	(B) MAINT. CD	(C) REC. CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	QTY INC IN UN PK	QTY INC IN UNIT	DS (A) 1-20	(B) 21-50	(C) 51-100	GS (A) 1-20	(B) 21-50	(C) 51-100	1 YR. ALW PER 100 EQUIP CNTGCY PL.	DEPOT MAINT ALW. PER 100 EQUIP.	(A) FIGURE NUMBER	(B) ITEM OR SYMBOL NUMBER
P	F		5310-595-6211							B	A565 WASHER, FLAT: Same as A298	ea		2										

SECTION III. INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE

TO INDEX NUMBER

FEDERAL STOCK NUMBER	INDEX NO.
3040-880-0497	A194
3110-915-5572	A034
4920-627-8271	A017
5120-949-6692	A004
5305-054-5635	A191
5305-054-5636	A046
5305-054-5638	A512
5305-054-5648	A037
5305-054-5649	A207
5305-054-5652	A202
5305-054-6654	A510
5305-054-6656	A511
5305-059-3659	A447
5305-151-0206	A093
5305-282-4546	A162
5305-717-6950	A514
5305-774-9871	A379
5305-774-9876	A268
5305-787-2202	A203
5305-959-2727	A161
5310-011-1041	A531
5310-054-1831	A532
5310-058-2951	A530
5310-058-3829	A294
5310-180- 0277	A529
5310- 274-8321	A258
5310-543-2740	A528
5310-543-4652	A052
5310-543-5933	A527
5310-550-3715	A293
5310-595-6211	A208
5310-595-7154	A533
5310-614-3500	A554
5310-619-1148	A448
5310-622-1724	A484
5310-680-7543	A485
5310-722-5998	A285
5310-857-5548	A200
5310-917-4721	A290
5310-965-1805	A038
5320-117-6938	A489
5320-817-0728	A015
5325-530-9034	A488
5325-543-2418	A179
5325-989-6033	A177
5330-784-9188	A024
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