NAVSHIPS 91811

INSTRUCTION BOOK

FOR

RADIO SETS AN/MRC-5C AND AN/MRC-6C

WATERPROOF ELECTRIC COMPANY
BURBANK, CALIFORNIA

BUREAU OF SHIPS NAVY DEPARTMENT

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1 December 1952

LIST OF EFFECTIVE PAGES

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DEPARTMENT OF THE NAVY
BUREAU OF SHIPS
WASHINGTON 25, D. C.

IN REPLY REFER TO
Code 993-100
1 December 1952

From: Chief, Bureau of Ships
To: All Activities Concerned with the Installation, Operation and Maintenance of the Subject Equipment

Subj: Instruction Book for Radio Set AN/MRC-5C and AN/MRC-6C NAVSHIPS 91811

1. This is the instruction book for the subject equipment and is in effect upon receipt.

2. When superseded by a later edition, this publication shall be destroyed.

3. Extracts from this publication may be made to facilitate the preparation of other Department of Defense Publications.

4. All Navy requests for NAVSHIPS Electronics publications should be directed to the nearest District Publications and Printing Office. When changes or revised books are distributed, notice will be included in the Bureau of Ships Journal and in the Index of Bureau of Ships General and Electronics Publications, NAVSHIPS 250-020.

H. N. WALLIN
Chief of Bureau

RECORD OF CORRECTIONS MADE

CHANGE NO.	DATE	SIGNATURE OF OFFICER MAKING CORRECTION

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GUARANTEE

The Contractor guarantees that at the time of delivery thereof the supplies provided for under this contract will be free from any defects in material or workmanship and will conform to the requirements of this contract. Notice of any such defect or non-conformance shall be given by the Government to the Contractor within one year of the delivery of the defective or non-conforming item, unless a different period of Guarantee is specified in the Schedule. If required by the Government within a reasonable time after such notice, the Contractor shall with all possible speed correct or replace the defective or non-conforming item or part thereof. When such correction or replacement requires transportation of the item or part thereof, shipping costs, not exceeding usual charges, from the delivery point to the Contractor's plant and return, shall be borne by the Contractor; the Government shall bear all other shipping costs. This Guarantee shall then continue as to corrected or replacing supplies or, if only parts of such supplies are corrected or replaced, to such corrected or replacing parts, until one year after the date of redelivery, unless a different period of Guarantee is specified in the Schedule. If the Government does not require correction or replacement of a defective or non-conforming item, the Contractor, if required by the Contracting Officer within a reasonable time after the notice of defect or non-conformance, shall repay such portion of the contract price of the time as is equitable in the circumstances.

INSTALLATION RECORD

Contract Number NObsr 52593 Date of Contract, 15 April 1951

Contract Number NObsr 57476 Date of Contract, 15 April 1951

Contract Number Date of Contract,

Serial Number of equipment . . . . . .

Date of acceptance by the Navy . . . . . .

Date of delivery to contract destination . . . . . .

Date of completion of installation . . . . . .

Date placed in service . . . . . .

Blank spaces on this page shall be filled in at time of installation. Operating personnel shall also mark the "date placed in service" on the date of acceptance plate located below the model nameplate on the equipment, using suitable methods and care to avoid damaging the equipment.

REPORT OF FAILURE

Report of failure of any part of this equipment, during its entire service life, shall be made to the Bureau of Ships in accordance with current regulations using form NAVSHIPS NBS 383 (revised) except for Marine Corps equipment, in which case the "Signal Equipment Failure Report" form shall be used and distributed in accordance with instructions pertaining thereto. The report shall cover all details of the failure and give the date of installation of the equipment. For procedure in reporting failures see Chapter 67 of the "Bureau of Ships Manual" or superseding instructions.

ORDERING PARTS

All requests or requisitions for replacement material should include the following data:

1. Federal stock number or, when ordering from a Marine Corps or Signal Corps supply depot, the Signal Corps stock number.
2. Name and short description of part.

If the appropriate stock number is not available the following shall be specified:

1. Equipment model or type designation, circuit symbol, and item number.
2. Name of part and complete description.
3. Manufacturer's designation.
4. Contractor's drawing and part number.
5. JAN or Navy type number.

SAFETY NOTICE

The attention of officers and operating personnel is directed to Chapter 67 of the "Bureau of Ships Manual" or superseding instructions on the subject of radio-safety precautions to be observed.

This equipment employs voltages which are dangerous and may be fatal if contacted by operating personnel. Extreme caution should be exercised when working with the equipment.

While every practicable safety precaution has been incorporated in this equipment, the following rules must be strictly observed:

KEEP AWAY FROM LIVE CIRCUITS:

Operating personnel must at all times observe all safety regulations. Do not change tubes or make adjustments inside equipment with high voltage supply on. Under certain conditions dangerous potentials may exist in circuits with power controls in the off position due to charges retained by capacitors. To avoid casualties always remove power and discharge and ground circuits prior to touching them.

DON'T SERVICE OR ADJUST ALONE:

Under no circumstances should any person reach within or enter the enclosure for the purpose of servicing or adjusting the equipment without the immediate presence or assistance of another person capable of rendering aid.

DON'T TAMPER WITH INTERLOCKS:

Do not depend upon door switches or interlocks for protection but always shut down motor generators or other power equipment. Under no circumstances should any access gate, door, or safety interlock switch be removed, short-circuited, or tampered with in any way, by other than authorized maintenance personnel, nor should reliance be placed upon the interlock switches for removing voltages from the equipment.

RESUSCITATION

AN APPROVED POSTER ILLUSTRATING THE RULES FOR RESUSCITATION BY THE PRONE PRESSURE METHOD SHALL BE PROMINENTLY DISPLAYED IN EACH RADIO, RADAR, OR SONAR ENCLOSURE. POSTERS MAY BE OBTAINED UPON REQUEST TO THE BUREAU OF MEDICINE AND SURGERY.

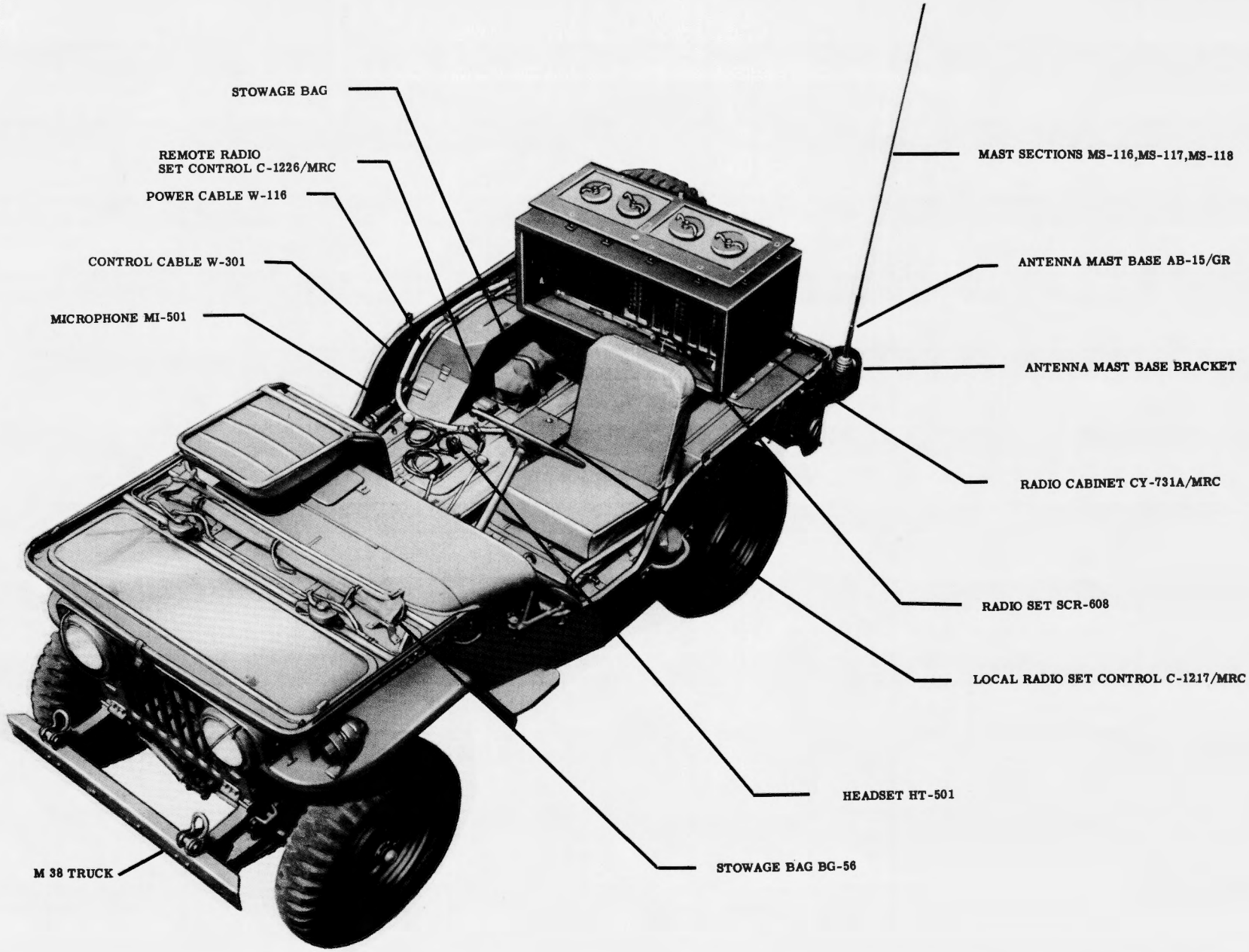


Figure 1-1. Radio Set AN/MRC-5C

SECTION 1 GENERAL DESCRIPTION

1. MODELS COVERED.

This instruction book covers Radio Sets AN/MRC-5C and AN/MRC-6C. (See Figure 1-1, and Figure 1-2.)

2. PURPOSE AND BASIC PRINCIPLES.

Radio Sets AN/MRC-5C and AN/MRC-6C form complete, vehicular radio stations for short-range, ground-to-ground tactical field use. The design and construction of these sets is such that operation is possible after material has been submerged during deep-water fording or landing operations, provided applicable precautionary measures are adhered to by operative personnel. (See Section 4, Paragraph 5e.)

The AN/MRC-5C is identical with the AN/MRC-6C set, except for the transmitting and receiving equipment installed, and the type 1/4 ton 4 x 4 truck used. Radio Set AN/MRC-5C consists of radio equipment SCR-608 installed in a type M38, 1/4 ton 4 x 4 truck, while Radio Set AN/MRC-6C consists of TCS radio equipment installed in the type M38A1, 1/4 ton 4 x 4 truck. Each of these radio sets is equipped with a watertight radio cabinet CY-731A/MRC, for housing the transmitting and receiving equipment; a local radio set control, C-1217/MRC, a remote radio set control C-1226/MRC, a whip type antenna, a watertight maintenance parts box CY-732/MRC, and accessories necessary for communication, such as headsets and microphones.

Power for the radio sets is supplied by the 24-volt electrical system of the respective trucks. Headset reception and push-to-talk transmission are provided at the local radio set control, located between the seats of the vehicle, and at the remote radio set control, which may be located at any distance up to one mile from the vehicle. The local radio set control also provides loud speaker reception and on-off power control of the radio transmitting and receiving equipment.

3. DESCRIPTION OF MAJOR UNITS.

a. TRUCK.-Radio Set AN/MRC-5C employs a type M38, 1/4 ton 4 x 4 truck. With Radio Set AN/MRC-6C, a type M38A1 1/4 ton 4 x 4 truck is used. For a listing of operation and maintenance manuals for the above vehicles, see Paragraph 4.g.

b. RADIO CABINET CY-731A/MRC (See Figure 7-3). -The radio cabinet mounted at the rear of the truck is a rectangular, watertight, metal box designed to provide installation facilities for transmitting and receiving equipment of various types. The radio equipment used by these different models is indicated in Tables 1-1 and 1-2, and is further described in the applicable instruction books and technical manuals. Two hand holes are provided in each of the two transparent windows of the front watertight cover, for access to the radio equipment within the cabinet. To prevent unauthorized entry to radio equipment, lock nuts on the back of each hand hole cover and a locking boss, located on the front cover, through which a padlock may be inserted, are provided.

NOTE

The waterproof plug in the cabinet top, the stuffing tube at the left side rear of the cabinet, as well as the field wire terminal board assembly on the left side of the cabinet, are not used with Radio Set AN/MRC-5C and AN/MRC-6C. The above items are used, however, when Radio Sets AN/GRC-3 through -8 are installed in this cabinet (Radio Sets AN/GRC-3 through -8 installations are not covered in this instruction book).

c. LOCAL RADIO SET CONTROL C-1217/MRC (See Figure 7-8).-The local radio set control is a watertight metal box which mounts between the seats and on the deck of the truck. This provides both driver and passenger with easily accessible radio control. The control unit contains: on-off power control of the transmitting and receiving equipment, a speaker and speaker switch for local reception, watertight microphone and headset jacks, a volume control for headset reception, terminals for connecting Remote Radio Set Control C-1226/MRC, and relay K301.

d. REMOTE RADIO SET CONTROL C-1226/MRC (See Figure 7-9).-The remote radio set control is a watertight metal box, containing watertight microphone and headset jacks, and terminals for connecting this unit to the local radio set control in the vehicle. This control unit provides facilities for headset reception and push-to-talk transmission at distances up to one mile from the truck over Infantry Field Wire WD-1/TT, or its equivalent. A canvas carrying bag is provided for the remote radio set control and the necessary headset and microphone.

e. MAINTENANCE PARTS BOX CY-732/MRC (See Figure 7-6).-The maintenance parts box which is mounted under the radio cabinet is a rectangular, watertight, metal box designed to provide stowage for maintenance parts required for field maintenance of the radio set. Unauthorized entry into the maintenance parts box may be prevented, by inserting a padlock in the locking boss, located on the front cover of the box.

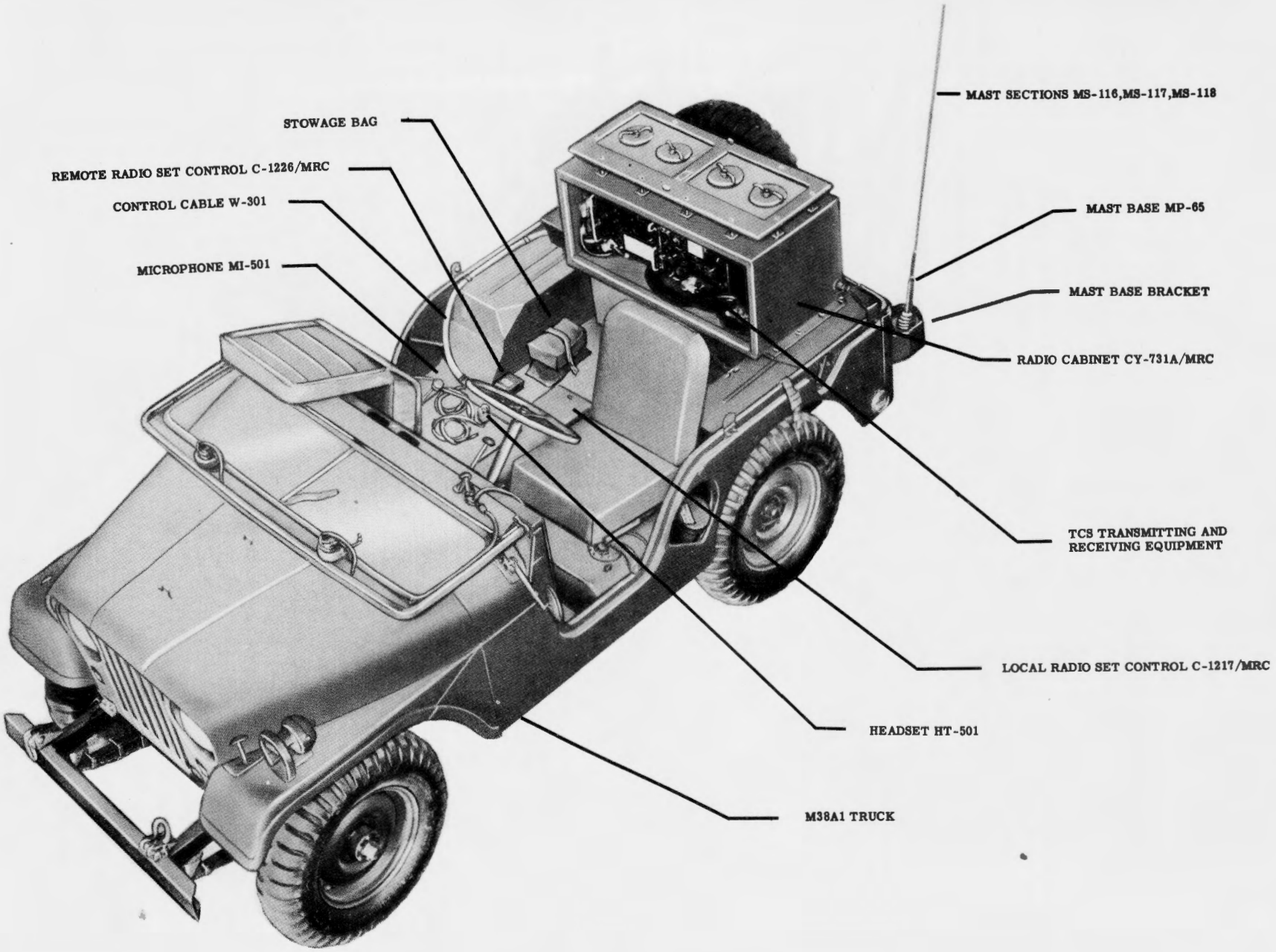


Figure 1-2. Radio Set AN/MRC-6C

4. REFERENCE DATA.

a. NOMENCLATURE.-Radio Set AN/MRC-5C and AN/MRC-6C.

b. CONTRACT.-AN/MRC-5C, NObsr-52593; AN/MRC-6C, NObsr-57476.

c. CONTRACTOR.-Waterproof Electric Company, Burbank, California.

d. COGNIZANT NAVAL INSPECTOR.-Inspector of Naval Material, Los Angeles, California.

e. POWER SUPPLY.-24 volts d.c., obtained from the truck electrical systems.

f. SYSTEM PERFORMANCE CHARACTERISTICS.-The performance characteristics of the radio sets are dependent upon the type of transmitting and receiving equipment installed. Refer to Tables 1-1 and 1-2.

g. REFERENCE MANUALS (See Tables 1-1, 1-2, and 1-3.)

(1) Truck M38 - (Parts List) - SNL G-740

(2) Truck M38 - (Operator's Manual) - TM 9-804

(3) Truck M38 - (Maintenance Manuals) - TM9-1804A, TM9-1804B

(4) Truck M38A1 - (Parts List) - SNL G-758

(5) Truck M38A1 - (Operator's Manual) - TM9-804A

(6) Transmitting and Receiving Equipment: SCR-608, TM 11-620; TCS 14/15, Navships 900, 705.

TABLE 1-1. RADIO SET AN/MRC-5C EQUIPMENT SUPPLIED

QUANTITY PER EQUIP	NAME OF UNIT	DESIGNATION	OVERALL DIMENSIONS Inches HEIGHT	WIDTH	DEPTH	WEIGHT POUNDS
	Radio Set (including):	AN/MRC/5C	74	62	133	2735
1	Truck	M38	74	62	133	2401
1	Radio Cabinet	CY-731A/MRC	17	44-5/8	18-11/16	86
1	Local Radio Set Control	C-1217/MRC	7-1/4	10-5/8	8-3/4	14
1	Remote Radio Set Control	C-1226/MRC	1-9/16	3-3/16	4-7/8	1.2
1	Maintenance Parts Box	CY-732/MRC	8-7/8	30	15-1/2	41.4
1	Antenna Mast Base Bracket	16-B-750001-364	5-3/4	5-1/2	12-1/2	6.6
1	Radio Set SCR-608		13-9/32	35-5/8	13-1/8	181.
1	Set Cables, Brackets Plates, Hardware, etc.					
2	Instruction Books	TM 11-620 October 1947	8	10-3/4	1-1/2	3.
2	Instruction Books	Navships 91811	8-3/4	11-1/4	1	2.

TABLE 1-2. RADIO SET AN/MRC-6C EQUIPMENT SUPPLIED

QUANTITY PER EQUIP.	NAME OF UNIT	DESIGNATION	OVERALL DIMENSIONS Inches HEIGHT	WIDTH	DEPTH	WEIGHT POUNDS
1	Radio Set (including):	AN/MRC-6C	73-3/4	60-7/8	138-5/8	2940
1	Truck	M38A1	73-3/4	60-7/8	138-5/8	2665
1	Radio Cabinet	CY-731A/MRC	17	44-5/8	18-11/16	86
1	Local Radio Set Control	C-1217/MRC	7-1/4	10-5/8	8-3/4	14
1	Remote Radio Set Control	C-1228/MRC	1-9/16	3-3/16	4-7/8	1.2
1	Maintenance Parts Box	CY-732/MRC	8-7/8	30	15-1/2	41.4
1	Antenna Mast Base Bracket	16-B-750001-364	5-3/4	5-1/2	12-1/2	6.6
1	Radio Transmitter	52245-A	11	13-3/4	11-13/16	48.
1	Radio Receiver	46159-A	11-1/16	13-13/16	11-7/8	38.1
1	Dynamotor Power Unit	211330-B	9-5/8	8-25/32	12-15/16	35.
1	Set Cables, Brackets, Plates, Hardware, etc.					
2	Instruction Books	Navships 900-705	8-3/4	11-1/4	1-1/2	3.
2	Instruction Books	Navships 91811	8-3/4	11-1/4	1	2.

TABLE 1-3. RADIO SET AN/MRC-5C, EQUIPMENT AND PUBLICATIONS REQUIRED BUT NOT SUPPLIED

QUANTITY PER EQUIP.	NAME OF UNIT	DESIGNATION	REQUIRED USE
1 Mile	Infantry Field Wire	WD-1/TT or equivalent	Remote Radio Set Control C-1226/MRC
	Instruction Books:		
2	Parts List	SNL G-740	Truck M38
2	Operator's Manual	TM 9-804	Truck M38
2	Maintenance Manual	TM9-1804A	Truck M38
2	Maintenance Manual	TM9-1804B	Truck M38

TABLE 1-4. RADIO SET AN/MRC-6C, EQUIPMENT AND PUBLICATIONS REQUIRED BUT NOT SUPPLIED

QUANTITY PER EQUIP.	NAME OF UNIT	DESIGNATION	REQUIRED USE
1 Mile	Infantry Field Wire	WD-1/TT or equivalent	Remote Radio Set Control C-1226/MRC
	Instruction Books:		
2	Parts List	SNLG-740	Truck M38A1
2	Operator's Manual	TM9-804A	Truck M38A1
2	Maintenance Manual		Truck M38A1

SECTION 2
THEORY OF OPERATION

1. GENERAL.

This section is confined to the theory of operation of the local and remote radio set control circuits used with Radio Sets AN/MRC-5C and AN/MRC-6C. For information on the individual radio transmitting and receiving equipment, refer to the applicable instruction books or technical manuals listed in Section 1, Paragraph 4.g.

2. DESCRIPTION OF RADIO SET CONTROL SYSTEM.

The radio transmitting and receiving equipment in the radio cabinet CY-731A/MRC is connected to a terminal board in the cabinet. The local radio set control, connected by a control cable to the radio cabinet terminal board, contains switches for on-off power control of the radio equipment, watertight microphone and headset jacks, a self-enclosed watertight loudspeaker with an ON-OFF switch, and a volume control for headset reception. Headset and microphone communication facilities may be extended to a distance of one mile from the truck. This is accomplished by connecting the remote radio set control to the local radio set control with Infantry Field Wire WD-1/TT or its equivalent. The local and remote radio set controls employ existing control circuits in the basic equipment.

3. ANALYSIS OF RADIO SET CONTROL CIRCUITS AN/MRC-5C (See Figure 2-1).

a. LOCAL RADIO SET CONTROL C-1217/MRC.

(1) Check moisture indicator mounted in the top-rear of the local radio set control box. If it appears pink, remove cover and dry out equipment (See Section 5, Paragraph 4 of this manual).

(2) Actuate the 24 volt d.c. power supply (See Table 1-3 for applicable operator's manual for Truck M38).

(3) Place the TRANS-REC switch of the local radio set control in the ON position. Power is now applied through K601 relay completing the circuit and sending power to the radio transmitting and receiving equipment in the cabinet (See Figure 2-1).

WARNING

ALLOW A WARM-UP INTERVAL OF AT LEAST THIRTY SECONDS FOR THE RADIO TRANSMITTING AND RECEIVING EQUIPMENT BEFORE ACTUATING THE RADIO SET CONTROLS. FAILURE TO COMPLY MAY CAUSE SERIOUS DAMAGE TO RADIO EQUIPMENT.

(4) When the above warm-up period has been observed, insert headset plug into the HEADSET jack and adjust volume control.

(5) Insert microphone plug into the MICROPHONE jack of the local radio set control. Actuate the PUSH-TO-TALK switch and talk in a normal voice close to the microphone.

WARNING

DO NOT PLUG IN MICROPHONE UNTIL WARM-UP INTERVAL IS COMPLETE. FAILURE TO COMPLY MAY CAUSE DAMAGE TO TRANSMITTER.

The above precautionary measure must be observed in case the microphone is faulty or shorted out. The operator should refer to Section 4 of this manual for a detailed description of Radio Set Operating Procedure.

The operator at the local radio set control has a choice of headset or speaker output or both.

(6) Turn the SPEAKER switch of the local radio set control to the ON position. The audio-level of this speaker is adjustable only through the volume control setting on the receivers in cabinet CY-1217/MRC.

When the TRANS-REC switch S302 is placed in the ON position, it actuates relay K601, which has been added to the FT237 mounting base, supplying 24 volts d.c. to both the transmitter and receiver power supplies.

The audio signal from the receiver is applied to the primary of transformer T301.

SPEAKER switch S303, is in series with speaker LS301 and the secondary winding of transformer T301. VOLUME control R304 (bridged "T" pad) therefore controls the audio level to headset jacks J301 and J302, but does not affect the speaker volume. The speaker volume is dependent upon the audio signal level from the receiver and may be changed only by setting the volume control on the receiver.

MICROPHONE jack J303 and J304 are connected in parallel with the corresponding jacks on the transmitter through terminals 4 and 5. Relay K301 is used only in conjunction with the remote radio set control (See Paragraph 3.b).

Spare switch S301 (between terminals 3 and 6) is not used on Radio Set AN/MRC-5C as terminal 3 is not connected at the radio cabinet terminal board.

b. REMOTE RADIO SET CONTROL C-1226/MRC.

(1) Connect Field Wire WD-1/TT to field wire terminals L1 and L2 on the local radio set control.

CAUTION

AVOID SHORTING THE FIELD WIRE TERMINALS TO THE VEHICLE.

(2) Connect the opposite ends of Infantry Field Wire WD-1/TT to the field wire terminals of the remote radio set control.

NOTE

To protect effective operation of remote radio set control, be sure terminal cap nut is hand tight.

As an added precaution against disconnection of the field wire from the terminals, a tie down eye bolt, through which the field wire may be passed and secured, has been provided.

CAUTION

AVOID SHORTING THE FIELD WIRE TERMINALS, OR THE CASE OF THE REMOTE RADIO SET CONTROL.

Remote Radio Set Control C-1226/MRC can now be operated at distances up to one mile from Radio Set AN/MRC-5C.

(3) Insert headset plug in HEADSET jack in the remote radio set control.

(4) Insert microphone plug in the MICROPHONE jack of the remote radio set control and actuate the PUSH-TO-TALK switch and talk in a normal voice close to microphone.

Remote Radio Set Control C-1226/MRC being connected to Local Radio Set Control C-1217/MRC by a two-conductor field wire, a transmitter keying relay K301 is necessary in the local radio set control to permit the use of this two-wire system. In conventional circuits, the push-to-talk switch on the microphone cable connects the microphone while grounding the third wire and keying a transmitter requiring a three-wire system.

With the microphone plug inserted in jack J202, the actuating of the PUSH-TO-TALK switch places the carbon microphone across terminal board E201, and by means of the connecting field wire, the microphone is placed across E301 on the local radio set control. The resistance of the microphone, to the applied voltage, is therefore in series with the armature of relay K301 and the 24 volt d.c. supply which is applied to terminal 6. The necessary operating current flows through the microphone and through the relay K301 armature causing the relay contacts to close. One set of contacts opens the receiver audio output circuit and closes the microphone circuit through capacitor C302 and terminal 5 on E302, the microphone input connection of the radio transmitter. The other set of contacts grounds the transmitter keying connection at terminal 4.

With the PUSH-TO-TALK switch in the open position, the audio signal from volume control R304 is fed through capacitor C301, relay K301 contacts, capacitor C201, to HEADSET jack J201. Since d.c. voltage is always present on the ungrounded side of the field wire connecting the two radio set controls, capacitors C201, C301, C302 are used to isolate this voltage from the audio circuits.

4. ANALYSIS OF RADIO SET CONTROL CIRCUITS AN/MRC-6C (See Figure 2-2).

a. LOCAL RADIO SET CONTROL C-1217/MRC.

(1) Check moisture indicator (See Paragraph 3.a. (1) of this section).

(2) Actuate the 24 volt d.c. power supply (See Paragraph 3.a. (2) of this section).

(3) Place the RECEIVER switch S301, at the local radio control in an ON position. S301 is now in parallel with the POWER ON-OFF switch on the receiver in the cabinet. On Radio Set AN/MRC-5C this switch is a spare as the radio transmitting-receiving equipment is the SCR-608 type. AN/MRC-6C uses TCS series equipment and S301 is now utilized as terminal 3 is connected at the radio cabinet terminal board (See Figure 2-2).

(4) Place the transmitter switch S302 in the ON position. S302 is parallel with the POWER ON-OFF switch on the transmitter.

WARNING

ALLOW A WARM-UP INTERVAL OF AT LEAST THIRTY SECONDS FOR THE RADIO TRANSMITTING AND RECEIVING EQUIPMENT BEFORE ACTUATING THE RADIO SET CONTROLS. FAILURE TO COMPLY MAY CAUSE SERIOUS DAMAGE TO RADIO EQUIPMENT.

When the above warm-up period has been observed, proceed as outlined in Paragraph 3.a (4), of this section, and the succeeding paragraphs for further detailed circuit analysis.

For Remote Radio Set Control C-1226/MRC used in conjunction with Radio Set AN/MRC-6C, see Paragraph 3.b. (4) of this section.

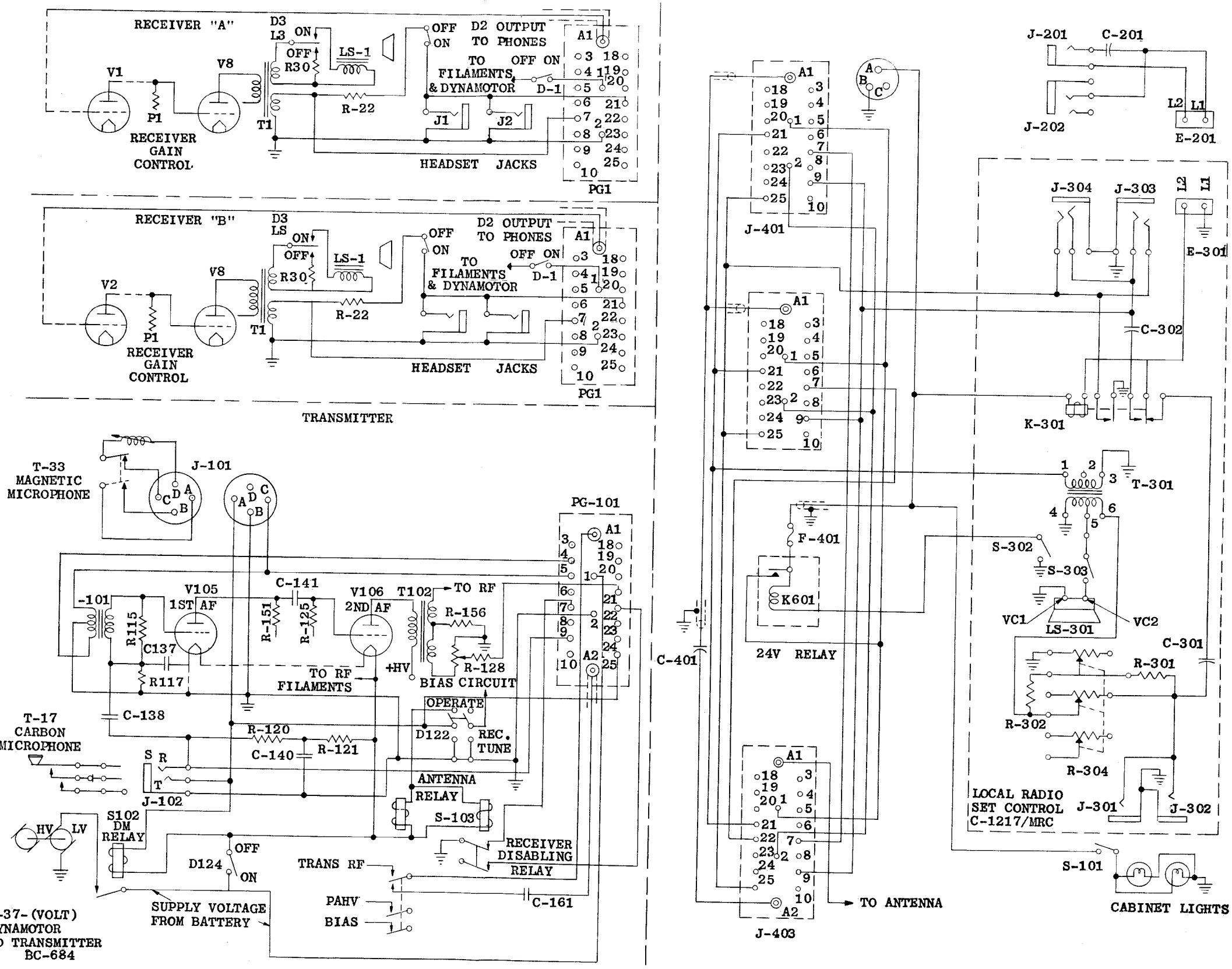


Figure 2-1. Radio Set AN/MRC-5C Control Schematic

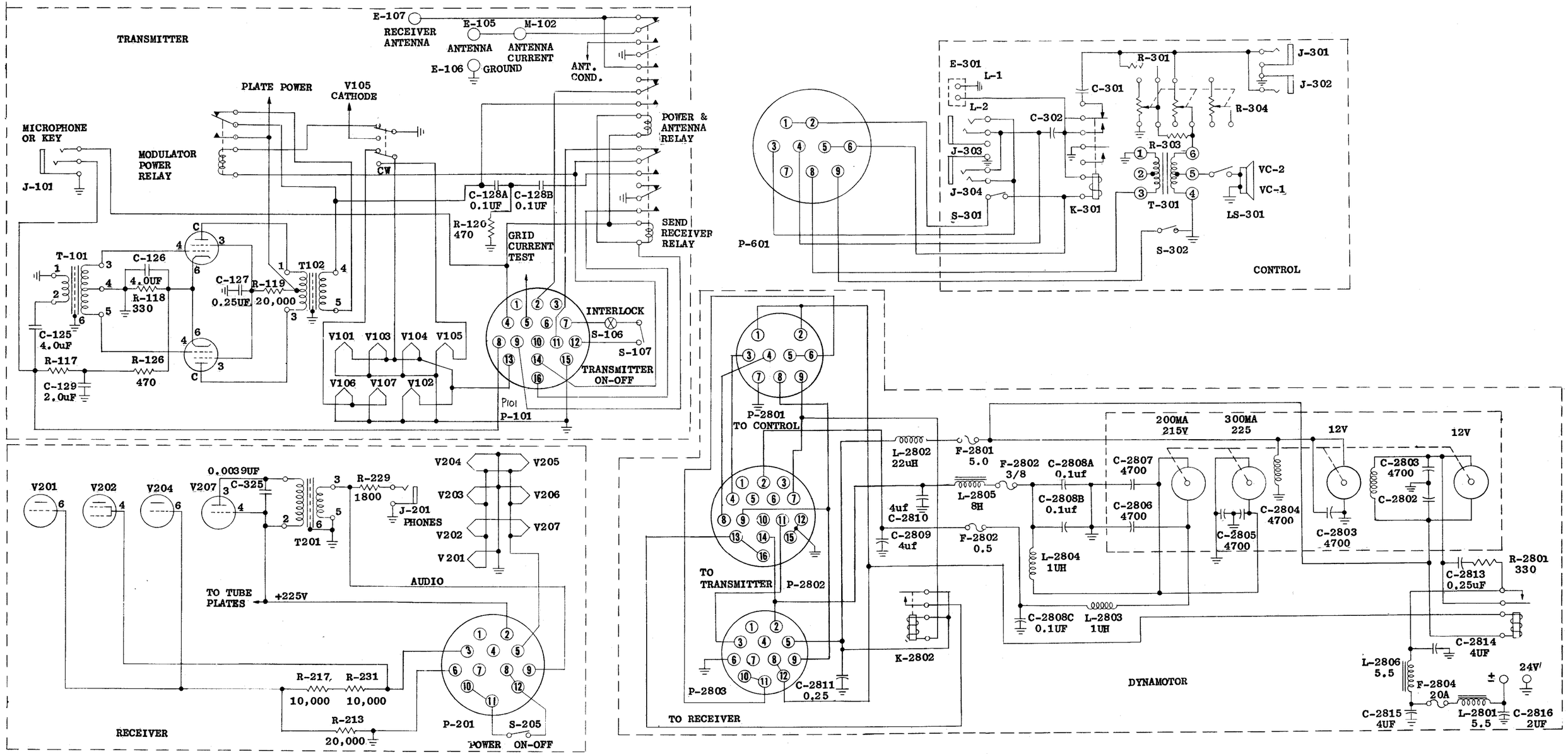


Figure 2-2. Radio Set AN/MRC-6C Control Schematic

SECTION 3
INSTALLATION

1. GENERAL.

Radio Sets AN/MRC-5C and AN/MRC-6C are delivered complete and in operating condition. No installation is necessary.

NOTE

In the event the vehicle has not been equipped for deep water fording or landing operations, it will be necessary to requisition and install a vehicle deep water fording kit (U.S. Army Ordnance Stock Number G250-5701705).

2. PRELIMINARY OPERATIONAL CHECK.

The radio equipment is thoroughly tested at the factory before shipment. Nevertheless, a complete operational test should be performed.

The most reliable form of operational check is direct communication between similar radio sets separated a few hundred feet. Follow the operating instructions outlined in Section 4 of this book, and in the applicable Instruction Books or Technical Manuals for the particular radio transmitting and receiving equipment involved.

Establish two-way communication on several different frequency settings. If the equipment fails to operate, refer to the Maintenance sections of this book, or the applicable publication for the radio equipment.

SECTION 4
OPERATION

1. GENERAL.

Radio Sets AN/MRC-5C and AN/MRC-6C are designed for operation from the local radio set control in the truck, or from the remote radio set control at distances up to one mile from the truck.

Before energizing the radio equipment, the operator should thoroughly familiarize himself with the contents in the sections on Operation and Operator's Maintenance in the applicable radio equipment instruction manual. For operational data on the type M38 and M38A1, 1/4 ton 4 x 4 trucks refer to respective publication (See Section 1, Paragraph 4.g.).

2. ACCESS TO RADIO EQUIPMENT IN CABINET CY-731A/MRC.

Radio Sets AN/MRC-5C and AN/MRC-6C are delivered with hand hole covers locked in place. In order to unlock these covers, it is first necessary to remove the front cover assembly. When the hand hole covers are unlocked, replace front cover assembly and remove hand hole covers. The transmitting and receiving equipment mounted in CY-731A/MRC is then operative and readily accessible through hand hole covers by operating personnel.

a. FRONT COVER ASSEMBLY.

(1) REMOVING FRONT COVER.-To remove the front cover assembly of the radio cabinet, unscrew all 11 clamping screws with the aid of the Allen-head wrench provided. Turn each clamping screw counterclockwise, exerting normal hand pressures, until clamping screw stops are reached. Pull the cover forward from the top and then lift upward and out. Note that the lower right-center clamping angle does not turn when the clamping screw is loosened. This eliminates any possibility of removing the front cover when the top-center clamping screw is covered by a padlock.

(2) INSTALLING FRONT COVER.-To replace the front cover, simply reverse the removing process explained in Paragraph 2.a.(1). For a watertight seal, the clamping screws should be firmly tightened, exerting normal hand pressure on the Allen-head wrench. Never use an extension on the Allen-head wrench to increase torque.

b. HAND HOLE COVERS.

(1) UNLOCKING HAND HOLE COVERS.-To unlock the hand hole covers, turn the diamond wing nut on the back of each cover clockwise. It may be found that the locking nut has been jammed by someone attempting

to remove the cover by forcing the hand hole cover handle. In this case, it is necessary to relieve the locking nut by turning the cover handle clockwise, just enough to relieve the jammed condition of the locking nut; the diamond wing nut can then be turned clockwise without difficulty.

(2) LOCKING HAND HOLE COVERS.-To lock the hand hole covers, make sure each hand hole cover handle (hand bolt) is tight, then turn the diamond wing nut on the back of each hand hole cover counterclockwise as far as possible, using normal hand pressure. As the locking mechanism on the hand hole cover has a left hand thread, the diamond wing nut on the back must be turned counterclockwise to lock. When all the hand hole covers are locked, and the front cover assembly is installed and padlocked, the enclosed equipment is protected against unauthorized entry.

(3) REMOVING AND REPLACING HAND HOLE COVERS.-To remove the hand hole covers, unscrew each handle (hand bolt) counterclockwise until the cover can be readily removed. When replacing a hand hole cover, secure the cover by hand, sufficiently tight to provide a good seal without forcing. Never use tightening tools, such as wrenches or levers, to tighten handles.

3. ACCESS TO CONTENTS OF MAINTENANCE PARTS BOX CY-732/MRC.

The maintenance parts box front cover is removed, replaced, and locked in the same manner as the front cover assembly of the radio cabinet, except that this cover assembly does not have hand hole covers (See Paragraph 2.a.). The fixed clamping angle is located on the right side of the cover. Therefore, to remove the cover, the left side must be pulled out first, then the cover is pulled sideways and out.

4. RADIO SET OPERATING PROCEDURE.

If necessary, after initial operational check (See Section 3.2.), adjust the radio transmitting and receiving equipment.

CAUTION

REFER TO THE APPLICABLE TECHNICAL MANUAL OR INSTRUCTION BOOK BEFORE ATTEMPTING ANY ADJUSTMENT OF THE RADIO EQUIPMENT.

The operator should refer to Section 2 of this manual for a detailed description of the theory of operation of the radio sets control circuits.

NOTE

The radio equipment is operated from local Radio Set Control C-1217/MRC unless otherwise noted.

CAUTION

AVOID SHORTING THE FIELD WIRE TERMINALS ON THE LOCAL RADIO SET CONTROL.

a. RADIO SET AN/MRC-5C.

(1) Energize the transmitter and receivers by placing the TRANS-REC switch in the ON position. During the warm-up period, check the following switches: the TRANSMITTER and RECEIVER switches, on the radio equipment in the cabinet, should be placed in the ON position; the SPEAKER switch, on the receiver, in the OFF position; the RADIO AND INT-INT ONLY switch, on receivers, in RADIO AND INT position; the RADIO-INTERPHONE switch, on transmitter, in RADIO position.

(2) Place SPEAKER switch in ON position and adjust audio level by setting volume control on receivers in cabinet.

(3) Insert headset plug in HEADSET jack and adjust volume control.

(4) Insert microphone plug in MICROPHONE jack. Actuate PUSH-TO-TALK switch and talk in normal voice close to microphone.

WARNING

ALLOW A WARM-UP INTERVAL OF AT LEAST THIRTY SECONDS BETWEEN TURNING ON THE TRANSMITTER AND ACTUATING THE PUSH-TO-TALK SWITCH. FAILURE TO COMPLY, MAY CAUSE SERIOUS DAMAGE TO THE TRANSMITTER.

(5) Check headset reception and push-to-talk transmission facilities from Remote Radio Set Control C-1226/MRC by performing the following:

(a) Connect the field wire terminals on the remote radio set control to the field wire on the local radio set control by means of Infantry Field Wire WD-1/TT or its equivalent; the length of wire not to exceed one mile. The polarity of the wire is unimportant.

CAUTION

AVOID SHORTING THE FIELD WIRE TERMINALS, OR SHORTING THE CASE OF THE REMOTE RADIO SET CONTROL TO THE VEHICLE.

(b) Insert headset plug in HEADSET jack in remote radio set control.

(c) Insert microphone plug in MICROPHONE jack of the remote radio set control. Actuate PUSH-TO-TALK switch and talk normally, close to the microphone.

(6) Disconnect the remote radio set control from the local radio set control.

(7) Place SPEAKER switch in OFF position.

(8) De-energize the transmitter and receivers by placing the TRANS-REC switch in OFF position.

b. RADIO SET AN/MRC-6C.

(1) Energize the receiver by placing the RECEIVER switch in the ON position (RECEIVER switch on radio receiver in cabinet in OFF position).

(2) Place SPEAKER switch in ON position and adjust audio level by setting volume control on receiver in cabinet.

(3) Insert headset plug in HEADSET jack and adjust VOLUME control.

(4) Energize the transmitter by placing the TRANSMITTER switch in the ON position (TRANSMITTER switch on radio transmitter in OFF position).

(5) Insert microphone plug in MICROPHONE jack. Actuate PUSH-TO-TALK switch and talk in a normal voice close to microphone.

WARNING

ALLOW A WARM-UP INTERVAL OF AT LEAST THRITY SECONDS BETWEEN TURNING ON THE TRANSMITTER AND ACTUATING THE PUSH-TO-TALK SWITCH. FAILURE TO COMPLY, MAY CAUSE SERIOUS DAMAGE TO THE TRANSMITTER.

(6) Check headset reception and push-to-talk transmission facilities from Remote Radio Set Control C-1226/MRC by performing the following:

(a) Connect the field wire terminals on the remote radio set control to the field wire terminals on the local radio set control by means of Infantry Field Wire WD-1/TT or its equivalent. The length of wire should not exceed one mile. The polarity of the wire is unimportant.

CAUTION

AVOID SHORTING THE FIELD WIRE TERMINALS, OR SHORTING THE CASE OF THE REMOTE RADIO SET CONTROL TO THE VEHICLE.

(b) Insert headset plug in HEADSET jack in the remote radio set control.

(c) Insert microphone plug in MICROPHONE jack in the remote radio set control. Actuate PUSH-TO-TALK switch and talk in a normal voice close to microphone.

(7) Disconnect the remote radio set control from the local radio set control.

(8) Place SPEAKER switch in OFF position.

(9) De-energize the transmitter and receivers by placing the TRANS-REC switch in OFF position.

CAUTION

PRIOR TO DEEP WATER FORDING OR LANDING OPERATIONS, AS A PRECAUTIONARY MEASURE, CHECK ALL GASKETED COVERS, CLAMPING ASSEMBLIES, AND STUFFING TUBES, ETC., TO SEE THAT THEY ARE SUFFICIENTLY TIGHT TO PROVIDE A GOOD SEAL AGAINST MOISTURE.

SECTION 5
OPERATOR'S MAINTENANCE

1. GENERAL.

For information on the maintenance of the transmitting and receiving equipment and the truck, refer to the applicable instruction books or technical manuals.

2. RADIO CABINET.

a. Prior to deep water fording or landing operations, the operator should check the front cover assembly, hand hole covers, the waterproof plug mounted in the top of cabinet, the humidity indicator plug and the stuffing tubes to make sure they have been secured sufficiently tight to provide a good seal.

b. The color of the humidity indicator plug mounted in the cover assembly should be noted frequently. If the Silica Gel within the moisture indicator is blue, the cabinet is free of moisture. If the color turns to lavender or rose pink, there is an indication of moisture seepage; if pink, steps should be taken immediately to dry out equipment before it is operated. The gaskets should be checked to determine the cause of the abnormal humidity.

3. MAINTENANCE PARTS BOX.

a. Prior to deep water fording or landing operations, the operator should check the cover to make sure it has been secured sufficiently tight to provide a good seal.

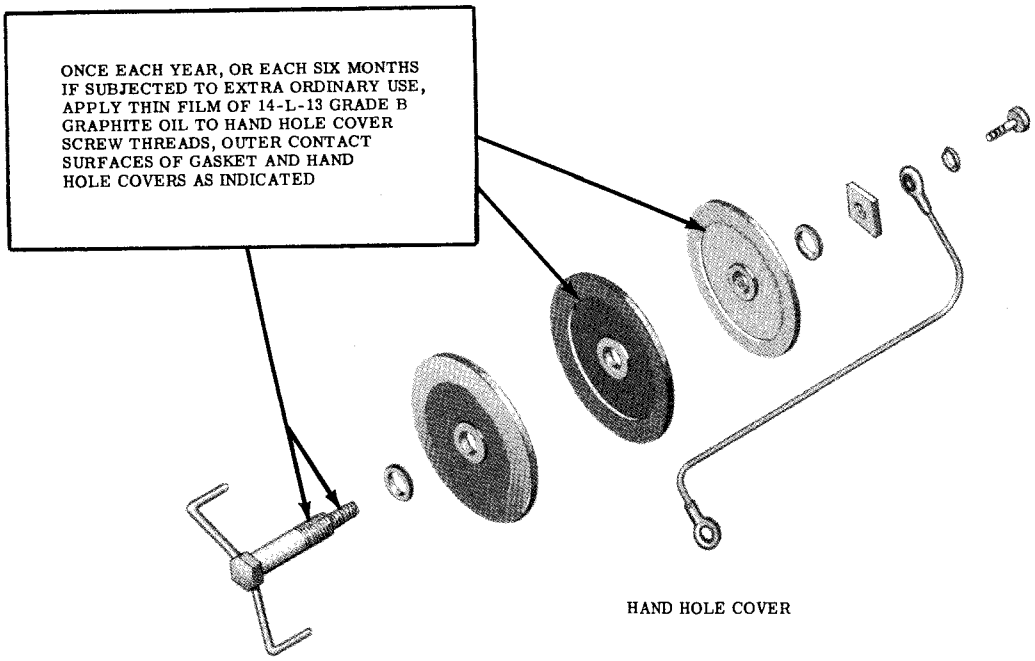
b. The color of the humidity plug mounted in the center of the cover should be noted frequently (See comment above, Paragraph 2.b). If it appears pink, steps should be taken immediately to dry out the parts, and the watertight gaskets should be checked to determine the cause of the abnormal humidity.

4. LOCAL RADIO SET CONTROL AND REMOTE RADIO SET CONTROL.

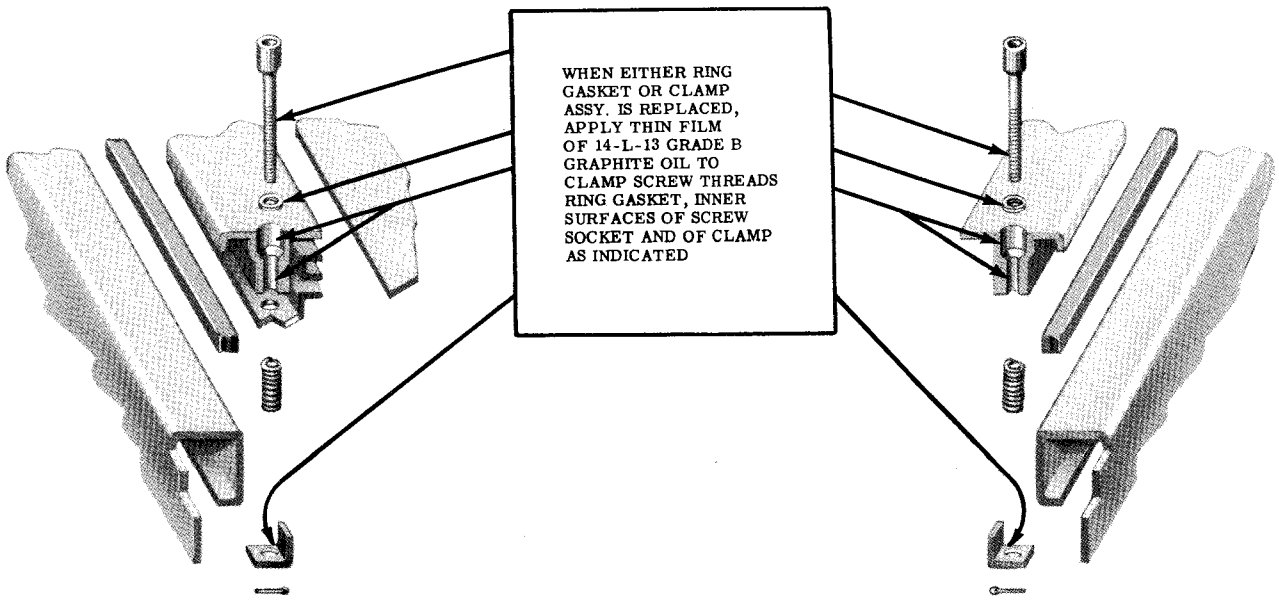
a. Prior to deep water fording or landing operations, the operator should check the local radio set control to make sure the stuffing tube, cover, humidity indicator plug, and the watertight caps on the microphone and headset jacks have been secured sufficiently tight to provide a good seal.

b. The color humidity indicator plug mounted in the top-rear of the local radio set control should be noted frequently (See comment, Paragraph 2.b). If it appears pink, the gasket and stuffing tube should be checked, the box opened, and allowed to dry out.

c. Before attempting to operate the radio equipment from the remote radio set control, the operator should make sure that the field wire linking this unit to the local radio set control is securely connected.



HAND HOLE COVER



CLAMPING ASSEMBLY
RADIO SET CABINET COVER

CLAMPING ASSEMBLY
MAINTENANCE PARTS
BOX AND COVER

Figure 6-1. Lubrication Data.

SECTION 6
PREVENTIVE MAINTENANCE

1. GENERAL.

When the radio set is stored where it is adequately protected from the weather, all cover clamping screws and hand hole cover handles should be backed off enough to relieve the pressure on the gaskets. This will prolong the useful life of the gaskets.

NOTE

The attention of all maintenance personnel is invited to the requirements of Chapter 67 of the BUREAU OF SHIPS MANUAL, of the latest issue.

2. STUFFING TUBES.

The threads of all stuffing tube nuts should be lightly lubricated with anti-seize compound at the time of installation and occasionally thereafter to protect them from corrosion and to prevent them from seizing, which makes removal difficult.

3. HAND HOLE COVERS.

Once each year (or every six months if subjected to more than ordinary use) each hand hole cover should be disassembled and the coarse threads given a light coat of 14-L-13 Grade B Graphite Oil (See Figure 6-1). Care should be taken to keep the lubricant off the center portion of the rubber gasket. A thick film of lubricant also should be applied to that portion of the back plate, which makes contact with the raised outer part of the rubber gasket.

4. COVER CLAMP ASSEMBLIES.

The cover clamp assemblies need not be lubricated. The lubricant applied during assembly is adequate for the life of the equipment. If the "O"-ring seal is replaced, however, or an entire clamp assembly is replaced, 14-L-13 Grade B Graphite Oil should be applied to the clamp assembly, as indicated in Figure 6-1.

FAILURE REPORTS

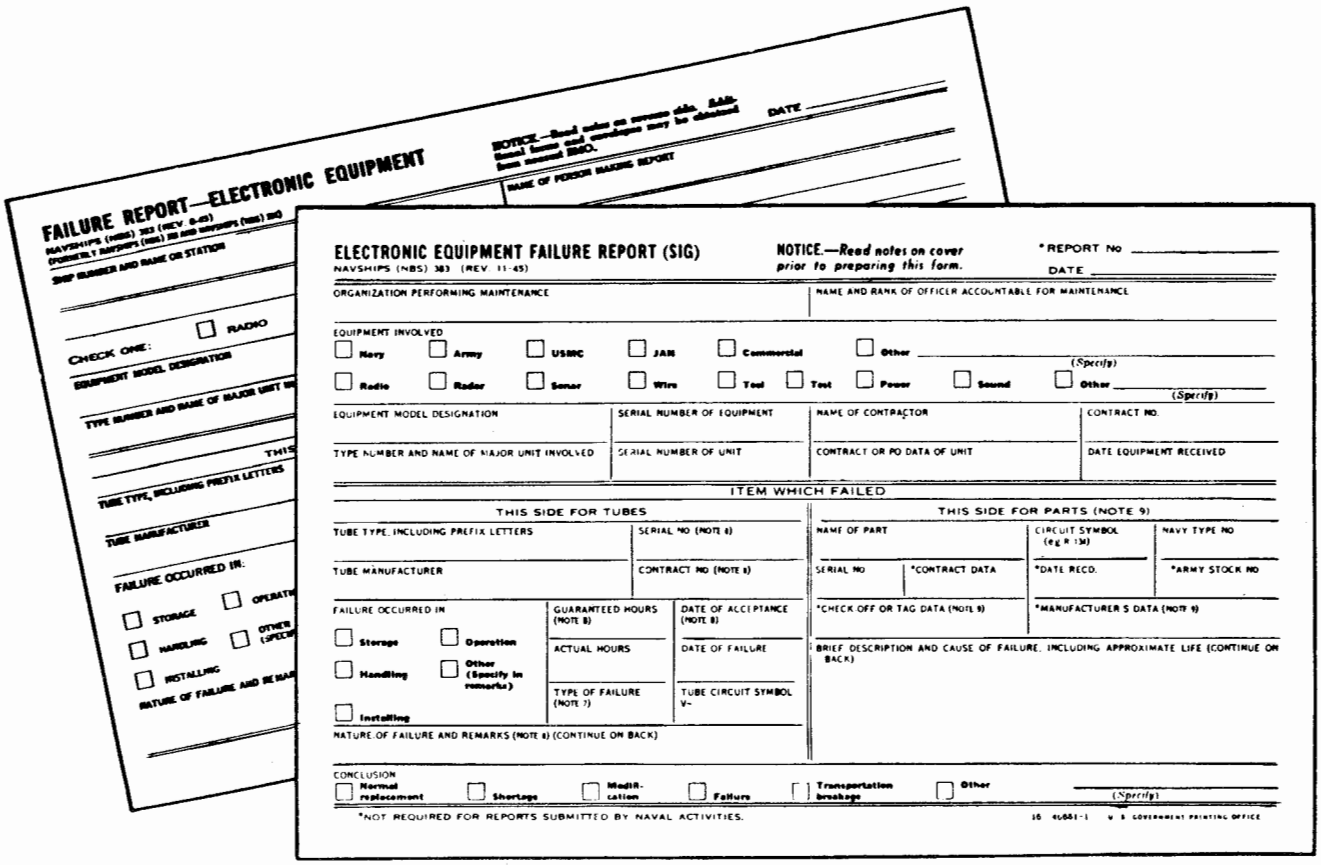
A FAILURE REPORT must be filled out for the failure of any part of the equipment whether caused by defective or worn parts, improper operation, or external influences. It should be made on Failure Report, form NBS-383, which has been designed to simplify this requirement. The card must be filled out and forwarded to BUSHIPS in the franked envelope which is provided. Full instructions are to be found on each card.

Use great care in filling the card out to make certain it carries adequate information. For example, under "Circuit Symbol" use the proper circuit identification taken from the schematic drawings, such as T-101 in the case of a transformer, or R-125, for a resistor. Do not substitute brevity for clarity. Use the back of the card to completely describe the cause of failure and attach an extra piece of paper if necessary.

The purpose of this report is to inform BUSHIPS of the cause and rate of failures. The information is used by the Bureau in the design of future equipment and in the maintenance of adequate supplies to keep the present equipment going. The cards you send in, together with those from hundreds of other ships, furnish a store of information permitting the Bureau to keep in touch with the performance of the equipment of your ship and all other ships of the Navy.

This report is not a requisition. You must request the replacement of parts through your Officer-in-Charge in the usual manner.

Make certain you have a supply of Failure Report cards and envelopes on board. They may be obtained from the nearest District Printing and Publication Office.



FAILURE REPORT—ELECTRONIC EQUIPMENT

NOTICE—Read notes on reverse side. Additional forms and envelopes may be obtained from nearest BSO.

DATE

NAME OF PERSON MAKING REPORT

SHIP NUMBER AND NAME OR STATION

CHECK ONE: ☐ RADIO

EQUIPMENT MODEL DESIGNATION

TYPE NUMBER AND NAME OF MAJOR UNIT INVOLVED

THIS

TUBE TYPE, INCLUDING PREFIX LETTERS

TUBE MANUFACTURER

FAILURE OCCURRED IN:

☐ STORAGE ☐ OPERATING

☐ HANDLING ☐ OTHER (SPECIFY)

☐ INSTALLING

NATURE OF FAILURE AND REMARKS

ELECTRONIC EQUIPMENT FAILURE REPORT (SIG)

NAVSHIPS (NBS) 383 (REV. 11-45)

NOTICE.—*Read notes on cover prior to preparing this form.*

*REPORT No

DATE

ORGANIZATION PERFORMING MAINTENANCE

NAME AND RANK OF OFFICER ACCOUNTABLE FOR MAINTENANCE

EQUIPMENT INVOLVED

☐ Navy ☐ Army ☐ USMC ☐ JAN ☐ Commercial ☐ Other _____ (Specify)

☐ Radio ☐ Radar ☐ Sonar ☐ Wire ☐ Test ☐ Test ☐ Power ☐ Sound ☐ Other _____ (Specify)

EQUIPMENT MODEL DESIGNATION	SERIAL NUMBER OF EQUIPMENT	NAME OF CONTRACTOR	CONTRACT NO.
TYPE NUMBER AND NAME OF MAJOR UNIT INVOLVED	SERIAL NUMBER OF UNIT	CONTRACT OR PO DATA OF UNIT	DATE EQUIPMENT RECEIVED

ITEM WHICH FAILED

THIS SIDE FOR TUBES

TUBE TYPE, INCLUDING PREFIX LETTERS	SERIAL NO (NOTE 6)
TUBE MANUFACTURER	CONTRACT NO (NOTE 6)

FAILURE OCCURRED IN: ☐ Storage ☐ Operation ☐ Handling ☐ Other (Specify in remarks) ☐ Installing

GUARANTEED HOURS (NOTE 8)	DATE OF ACCEPTANCE (NOTE 8)
ACTUAL HOURS	DATE OF FAILURE
TYPE OF FAILURE (NOTE 7)	TUBE CIRCUIT SYMBOL V-

NATURE OF FAILURE AND REMARKS (NOTE 6) (CONTINUE ON BACK)

THIS SIDE FOR PARTS (NOTE 9)

NAME OF PART	CIRCUIT SYMBOL (e.g. R 134)	NAVY TYPE NO
SERIAL NO / *CONTRACT DATA	*DATE RECD.	*ARMY STOCK NO
*CHECK OFF OR TAG DATA (NOTE 9)	*MANUFACTURER'S DATA (NOTE 9)	

BRIEF DESCRIPTION AND CAUSE OF FAILURE, INCLUDING APPROXIMATE LIFE (CONTINUE ON BACK)

CONCLUSION

☐ Normal replacement ☐ Shortage ☐ Modification ☐ Failure ☐ Transportation breakage ☐ Other _____ (Specify)

*NOT REQUIRED FOR REPORTS SUBMITTED BY NAVAL ACTIVITIES.

16 46681-1 U. S. GOVERNMENT PRINTING OFFICE

Figure 7-1. Failure Report, Sample Form

SECTION 7
CORRECTIVE MAINTENANCE

1. GENERAL.

For information on corrective maintenance of the transmitting and receiving equipment and the M38 and M38A1 trucks, refer to the applicable instruction books or technical manuals. (See Tables 1-1, 1-2, 1-3, and 1-4, Section 1 of this manual.)

2. FAILURE REPORTS.

(See Figure 7-1.)

3. MODIFICATION OF REPLACEMENT RADIO SETS SCR-608.

a. GENERAL.-Radio Set AN/MRC-5C is complete as furnished, all necessary modifications to Radio Set SCR-608 have been accomplished (See Section 13, Paragraph 136, TM11-620 dated October 1947 for a detailed explanation of these modifications.) TM11-620, dated October 1947, is furnished as part of Radio Set AN/MRC-5C. Should it become necessary, however, to replace the transmitter, receivers, or mounting base FT-237 from stock, certain restorations and modifications may be required.

b. MOUNTING BASE RESTORATION.-When using those models of Radio Sets SCR-608 which permit interphone operation between the local and remote radio set control points, the jumper lead between terminals 1 and 7 on terminal strip TS401, must be removed. (See applicable technical manual.) Failure to make this restoration will result in excessive and uncontrollable interphone volume.

c. TRANSMITTER RESTORATION.-Paragraph 136a (2), TM11-620, specifies the replacement of R128, (10,000 ohm, 1/2 watt resistor) with R164 (1,200 ohm, 1 watt resistor). If this substitution has been made it is advisable to restore this sidetone circuit to its original status. If greater sidetone volume is desired, however, use a 3,900 ohm, 1 watt resistor. Resistance lower than, 3,900 ohms will cause considerable reduction in receiver audio output when the sidetone control is near the "OFF" position.

d. TRANSMITTER MODIFICATION.-Resistor R152 (2,000 ohms) and resistor R148 (5,000 ohms) should be removed on all radio set models employing these resistor (See Paragraph 136a (2), TM11-620).

e. RECEIVER MODIFICATION.-When receiver models BC-683-A, BC-683-B, or the early BC-683-BM are used, it is important that the TUNE-OPERATE switch D5 is the 2-circuit type and that the muting or disabling be changed from the headset winding to the grid of the

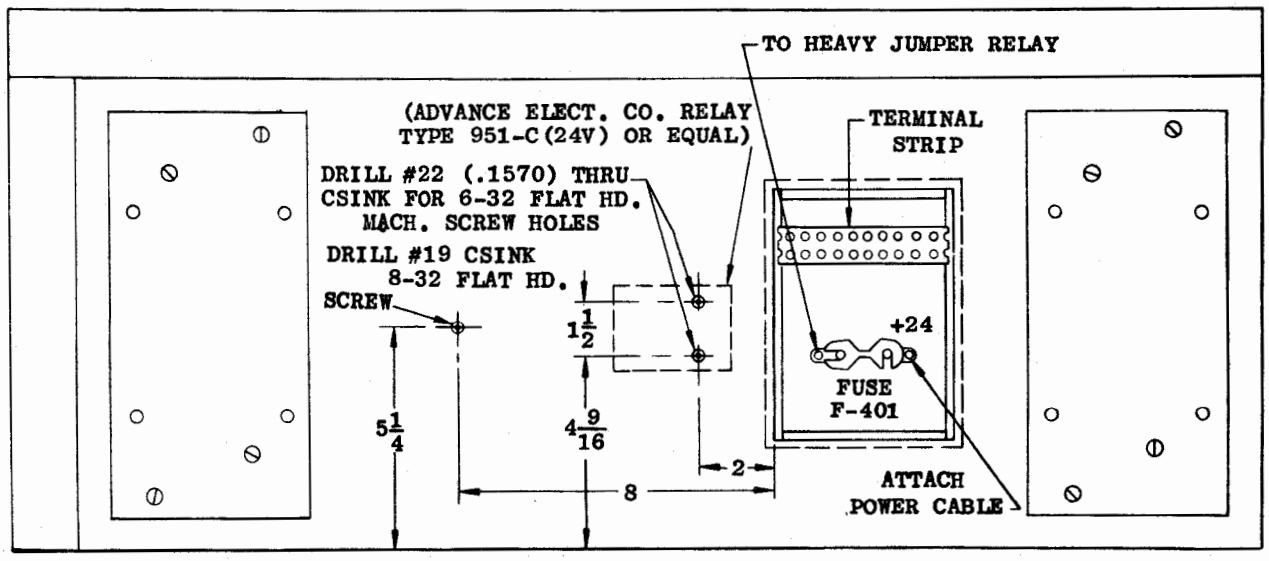


Figure 7-2. Mounting Base FT-237 Modification

a-f output tube, V8. (See Paragraph 135b, 135c, and 136a (1), TM11-620.)

In order to increase the available audio volume at the local and remote radio set controls proceed as follows:

(1) Remove R30 fixed resistor, thereby opening up the speaker dummy.

(2) Replace C-22, the .005 microfarad 300 volt capacitor across the primary of the receiver output transformer T1, with one of 1000 volt rating.

(3) Place a jumper lead across the fixed resistors R22, R32, and R33; this allows full audio output at the headset jacks.

f. MOUNTING BASE MODIFICATION.-When the mounting base FT-237 is requisitioned from stock, for use in Radio Set AN/MRC-5C, it must be modified by installing relay K601. To install relay K601, proceed as follows:

(1) Drill two 5/32 inch holes in mounting base, using relay K601 as a template and locating holes as shown in Figure 7-2.

(2) Countersink these two holes from the top side of mounting base.

(3) Mount the relay on the bottom side of mounting base as shown in Figure 7-2, using two 6-32 x 5/8 inch flat head machine screws and lockwashers.

(4) Connect the relay as shown in Figure 7-10.

4. RADIO CABINET.

a. GASKET.-If the rubber gaskets around the cover assembly or the gaskets binding the plexiglass windows have become damaged or have deteriorated, they must be replaced to insure the necessary watertight installation. Faulty gaskets are often the cause of water seepage into the radio cabinet, or the presence of excess moisture. Figure 7-3 shows the location, and Figure 7-6, a cross-sectional view of these gaskets.

b. STUFFING TUBES.-The cable packing should be replaced from stock, if the nuts on the tubes will no longer tighten sufficiently to provide a good seal.

c. HAND HOLE COVERS.-Figure 7-5 shows the disassembled parts of a hand hole cover in their proper physical relationship. If it is deemed necessary to replace the rubber gasket in a hand hole cover, prior to re-assembly, the coarse threads, of the hand bolt, should be given a light coat of 14-L-13 Grade B Graphite Oil as indicated in Figure 6-1. Care should be taken to keep the lubricant off the center portion of the rubber gasket. A thin film of lubricant should be applied to that portion of the back plate, which makes contact with the raised outer part of the rubber gasket.

d. COVER CLAMPING ASSEMBLIES. -In addition to the gaskets already mentioned, Figure 7-6 also shows a cross-sectional view of a cover clamping assembly. If it is determined that one or more of the clamping assemblies is admitting water into the radio cabinet, it is advisable to replace the "O"-ring seal. If this ring is replaced, or an entire clamp assembly is replaced, 14-L-13 Grade B Graphite Oil should be applied to the replacement clamp assembly as indicated in Figure 6-1.

5. MAINTENANCE PARTS BOX.

a. GASKETS.-If the rubber gaskets around the cover has become damaged or has deteriorated, it must be replaced to insure a watertight installation. Figure 7-6, shows the location and Figure 7-7, shows a detailed cross-sectional view of this gasket.

b. COVER CLAMPING ASSEMBLIES.-In addition to the cover gasket, Figure 7-7 shows a cross-sectional view of a cover clamping assembly. If it is determined that one or more of the clamping assemblies is admitting water into the maintenance parts box, it is advisable to replace the "O"-ring seal. If this "O"-ring is replaced, or an entire clamp is replaced, 14-L-13 Grade B Graphite Oil should be applied to the replacement clamp assembly as indicated in Figure 6-1.

6. LOCAL RADIO SET CONTROL.

a. GASKETS.-The location of the cover gasket used in this unit is shown in Figure 7-8. If this gasket has become damaged or has deteriorated, it must be replaced to insure a watertight installation. The cable packing "O"-rings in the stuffing tube must be replaced, if the nut cannot be tightened, to ensure a watertight seal.

b. DISASSEMBLY.-Disassembly of the local radio set control for checking or repair is facilitated by the following procedure:

(1) Loosen the cable clamp nearest the unit, to free a portion of cable W301.

(2) Remove the screws from the top of the unit.

(3) The top may be lifted and tilted for easy access to the internal parts of the box, and for cleaning the relay contacts.

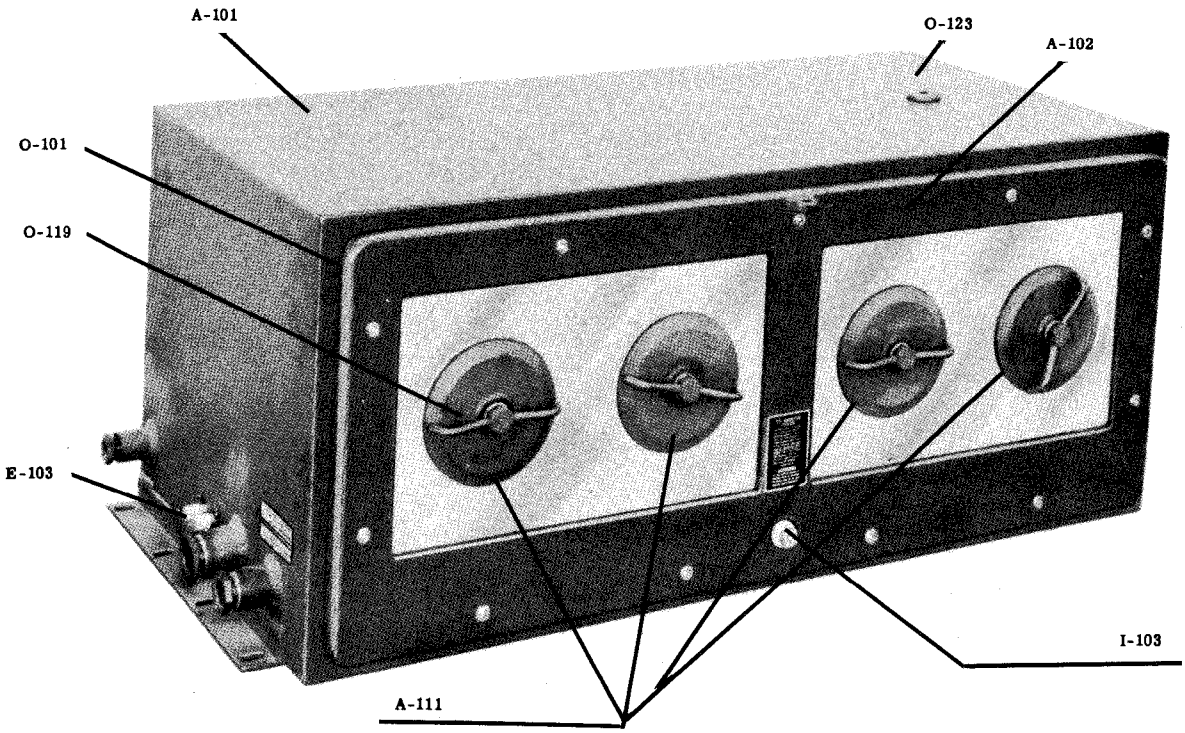


Figure 7-3. Radio Cabinet CY-731A/MRC

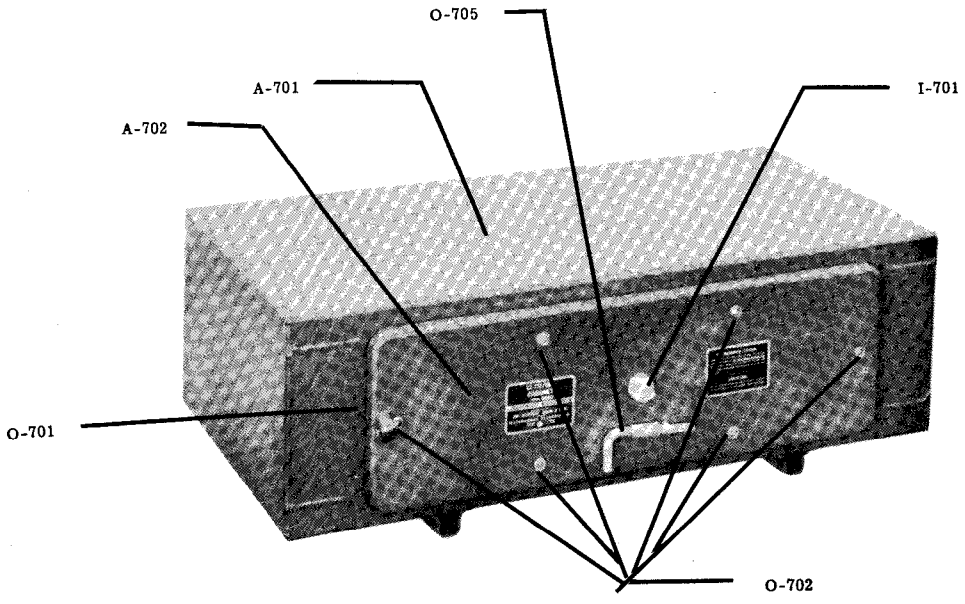


Figure 7-4. Maintenance Parts Box CY-732/MRC

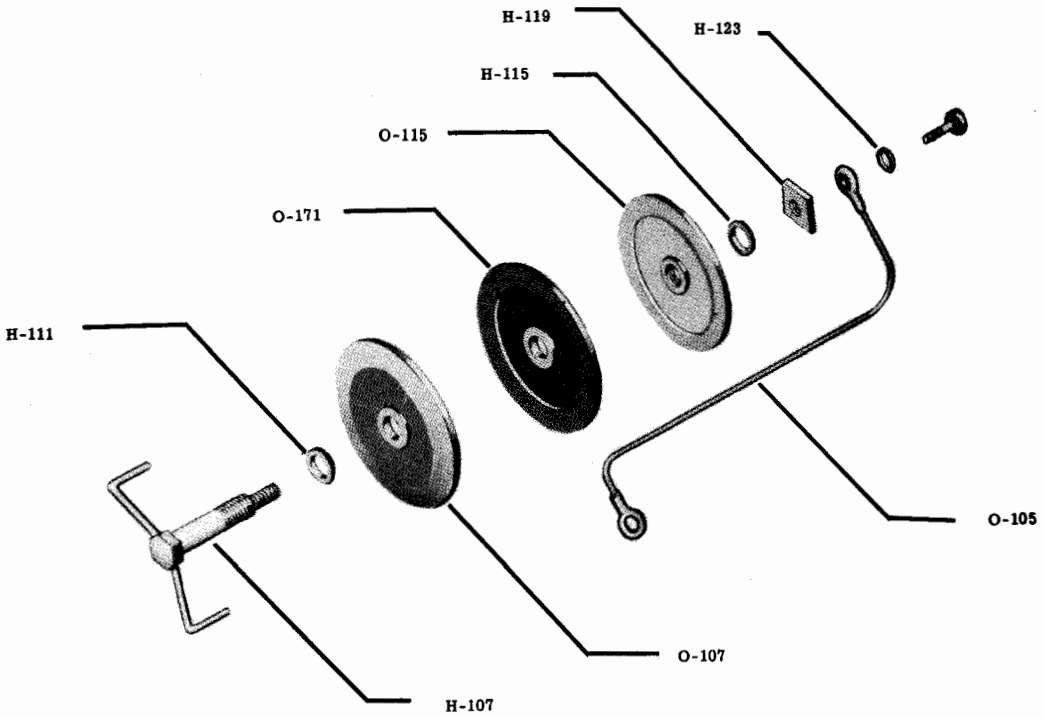


Figure 7-5. Hand Hole Cover (Exploded View)

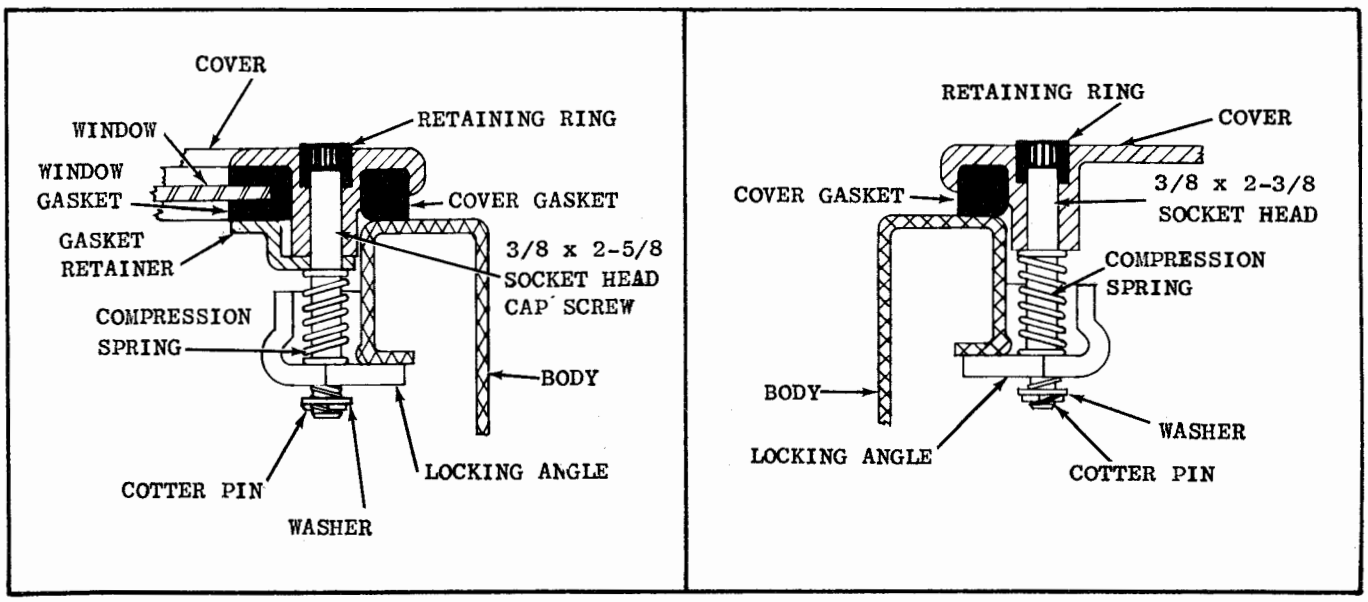


Figure 7-6. Radio Cabinet Cover Clamping Assembly

Figure 7-7. Maintenance Parts Box Cover Clamping Assembly

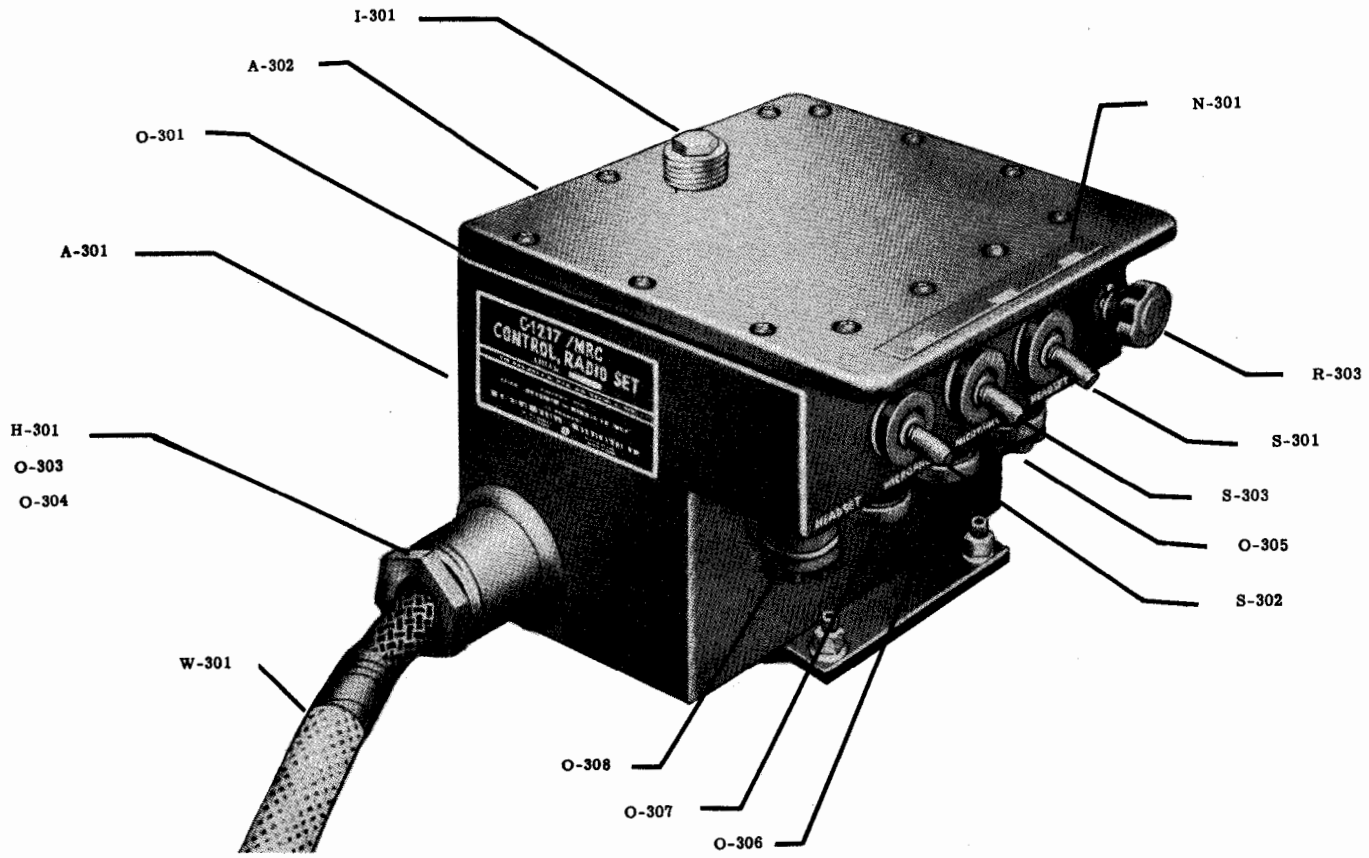


Figure 7-8. Local Radio Set Control C-1217/MRC

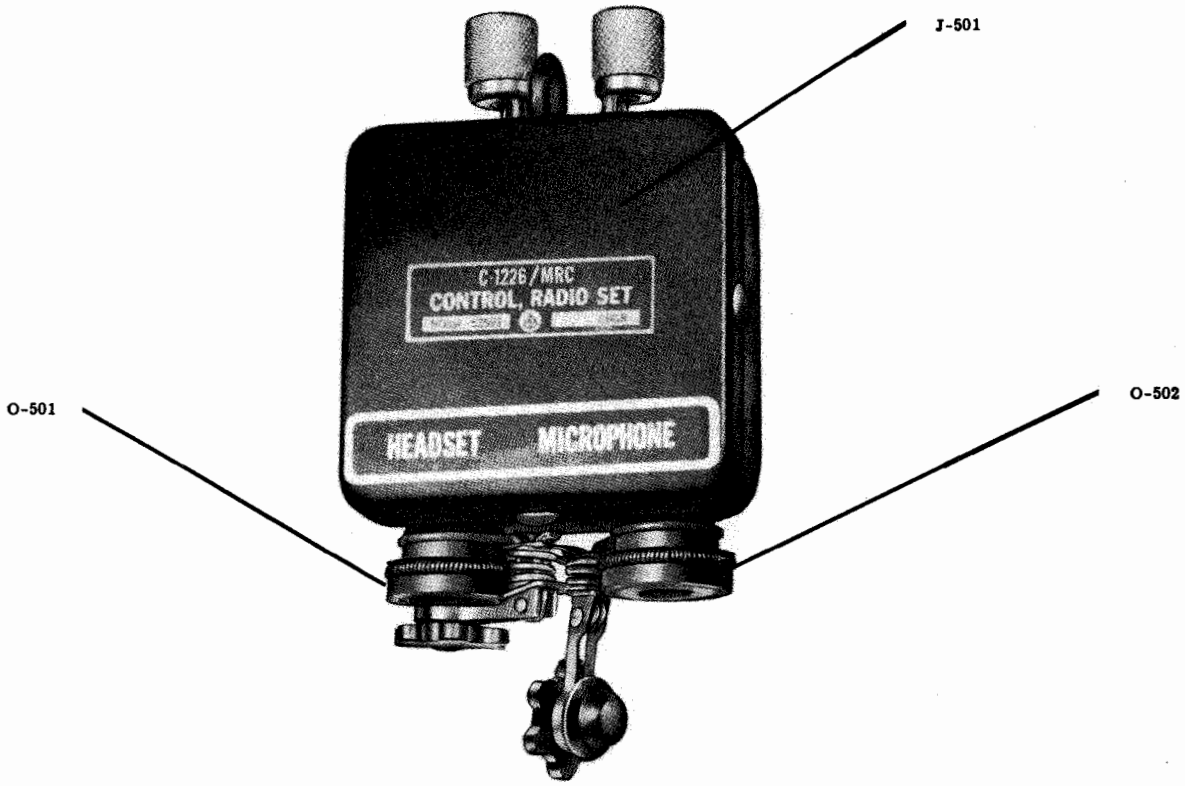


Figure 7-9. Remote Radio Set Control C-1226/MRC

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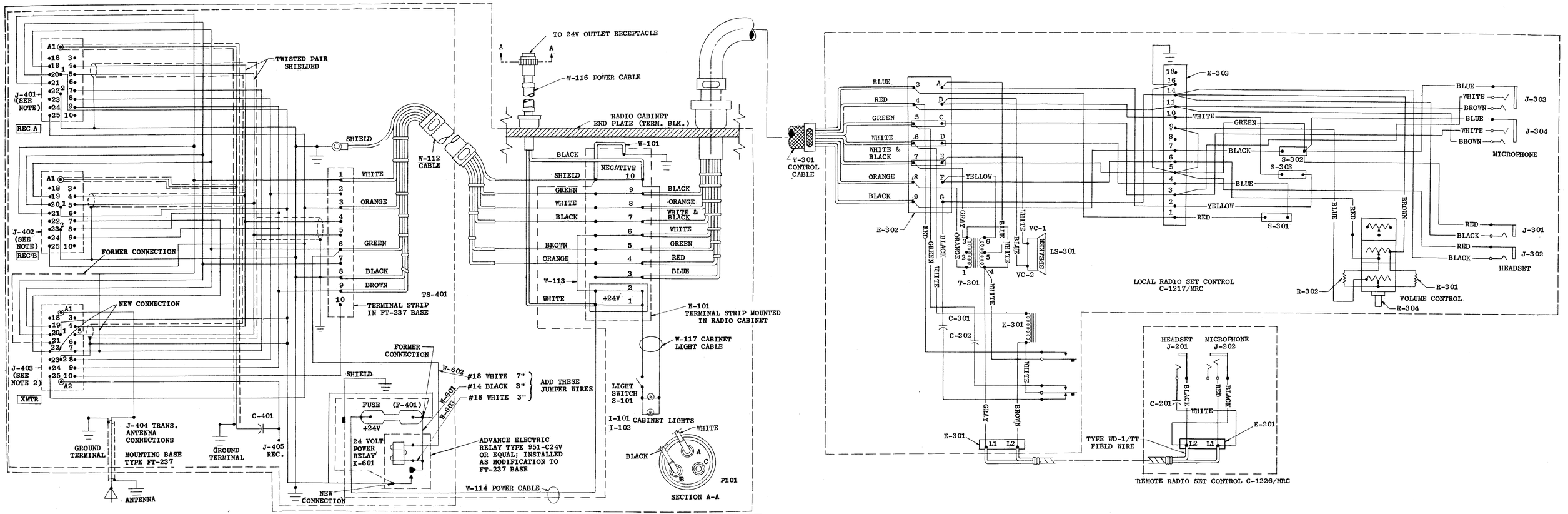


Figure 7-10. Radio Set AN/MRC-5C Control Wiring Diagram

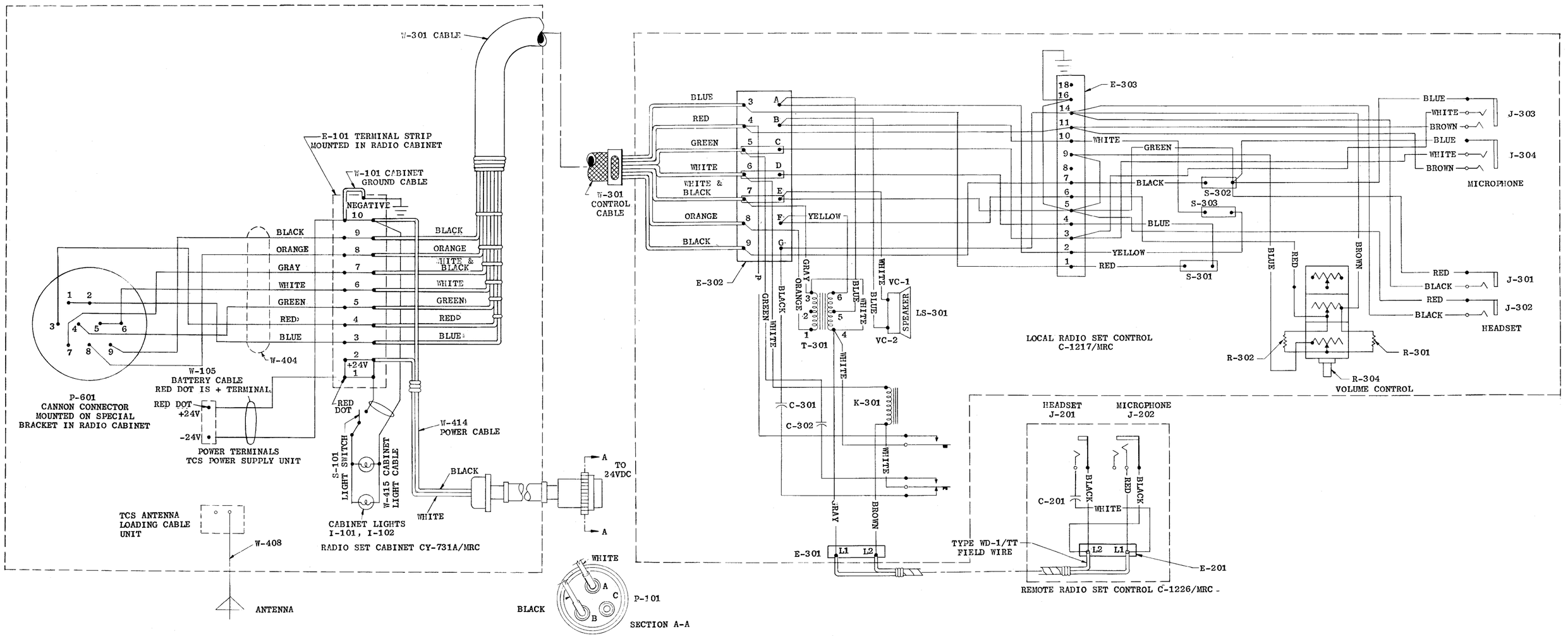
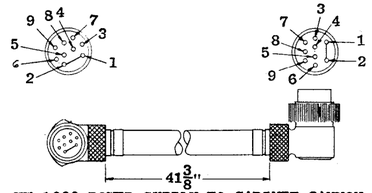
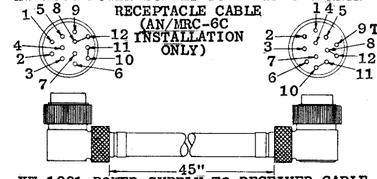


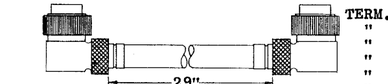
Figure 7-11. Radio Set AN/MRC-6C Control Wiring Diagram



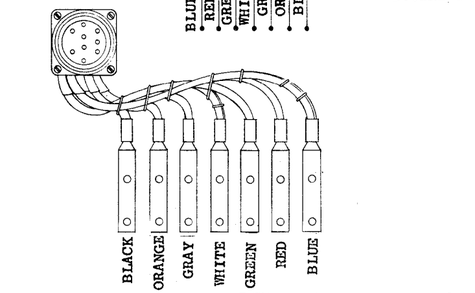
KW-1000 POWER SUPPLY TO CABINET CANNON RECEPTACLE CABLE (AN/MRC-6C INSTALLATION ONLY)



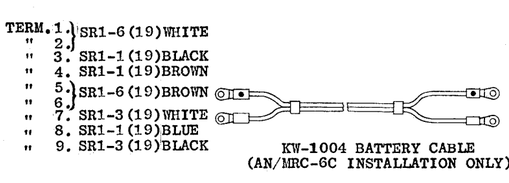
KW-1001 POWER SUPPLY TO RECEIVER CABLE (AN/MRC-6C INSTALLATION ONLY)



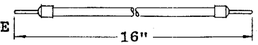
KW-1002 POWER SUPPLY TO TRANSMITTER CABLE (AN/MRC-6C INSTALLATION ONLY)



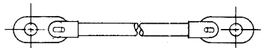
KW-1003 CANNON CONNECTOR TO TERMINAL BLOCK CABLE (AN/MRC-6C INSTALLATION ONLY)



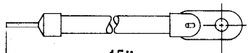
KW-1004 BATTERY CABLE (AN/MRC-6C INSTALLATION ONLY)



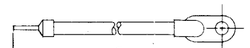
KW-1005 TRANSMITTER TO RECEIVER LEAD (AN/MRC-6C INSTALLATION ONLY)



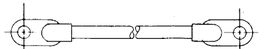
KW-1006 TRANSMITTER TO LOAD COIL LEAD (AN/MRC-6C INSTALLATION ONLY)



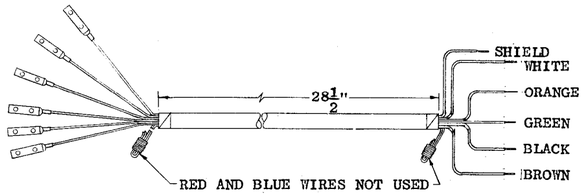
KW-1007 ANTENNA LEAD (LOAD COIL TO MAST BASE) (AN/MRC-6C INSTALLATION ONLY)



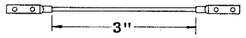
KW-1008 RECEIVER GROUND STRAP (AN/MRC-6C INSTALLATION ONLY)



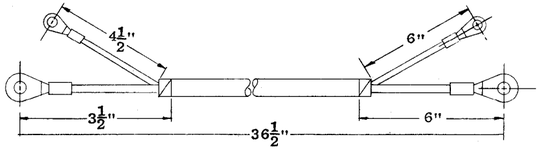
KW-1009 TRANSMITTER GROUND STRAP (AN/MRC-6C INSTALLATION ONLY)



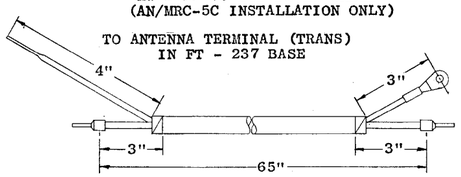
KW-1028 MCOS-7 CONTROL CABLE OVERALL LENGTH - 37" (AN/MRC-5C INSTALLATION ONLY)



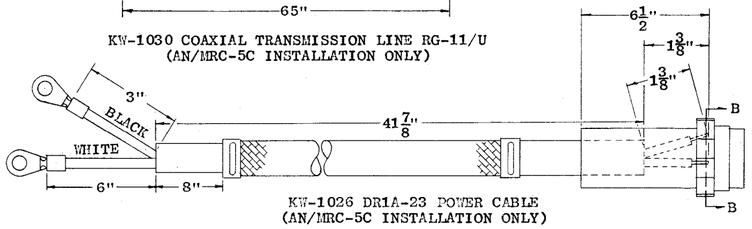
KW-1023 TERMINAL BOARD JUMPER (AN/MRC-5C INSTALLATION ONLY)



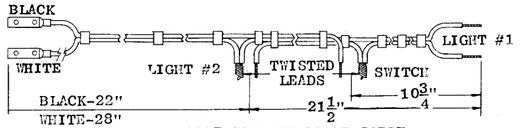
KW-1012 CO-212 POWER CABLE (AN/MRC-5C INSTALLATION ONLY)



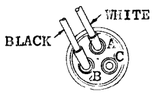
KW-1030 COAXIAL TRANSMISSION LINE RG-11/U (AN/MRC-5C INSTALLATION ONLY)



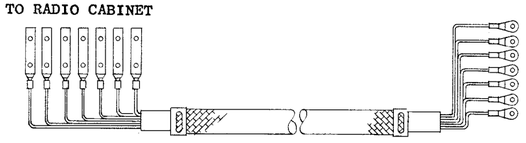
KW-1026 DR1A-23 POWER CABLE (AN/MRC-5C INSTALLATION ONLY)



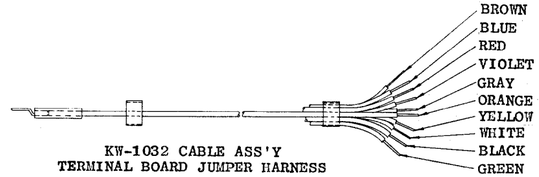
KW-1027 CABINET LIGHT CABLE



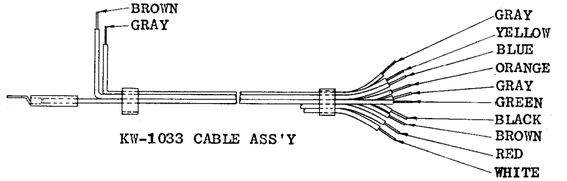
SECTION B-B



KW-1029 CABLE-CONTROL-MHFA-7

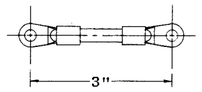


KW-1032 CABLE ASS'Y TERMINAL BOARD JUMPER HARNESS



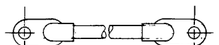
KW-1033 CABLE ASS'Y

KW-1024 LEAD-RELAY JUMPER



KW-1021 LEAD-RELAY JUMPER

KW-1022 LEAD-RELAY JUMPER



KW-1034 CABINET GROUND STRAP

(AN/MRC-5C INSTALLATION ONLY)

Figure 7-12. Radio Sets AN/MRC-5C and AN/MRC-6C Interconnecting Cables

SECTION 8
PARTS LISTS

This section is composed of the following tables:

Table 8-1. List of Major Units.

Table 8-2. Table of Replaceable Parts.

Table 8-3. Cross Reference Parts List.

Table 8-4. Color Codes and Miscellaneous Data.

Table 8-5. List of Manufacturers.

TABLE 8-1. LIST OF MAJOR UNITS

SYMBOL GROUP	QUANTITY AN/MRC-5C	QUANTITY AN/MRC-6C	NAME OF MAJOR UNIT	AN, NAVY, SIG. CORPS DESIGNATION
101-199	1	1	CABINET	CY-731A/MRC
301-399	1	1	CONTROL RADIO SET	C-1217/MRC
401-499	1	1	ANTENNA ASSEMBLY	---
501-599	1	1	ACCESSORIES	---
601-699	1	0	MODIFICATION FOR MOUNTING RADIO (FT-237)	---
701-799	1	1	CASE (SPARE PARTS)	CY-732/MRC
---	0	1	RADIO TRANSMITTER	52245
---	0	1	RADIO RECEIVER	46159
---	0	1	ANTENNA LOADING COIL	47205
---	0	1	DYNAMOTOR ASSEMBLY	211330
---	1	0	RADIO TRANSMITTER	BC-684 ( )
---	2	0	RADIO RECEIVER	BC-683 ( )
---	1	0	TRUCK 1/4 TON 4 x 4	M-38
---	0	1	TRUCK 1/4 TON 4 x 4	M-38A1
---	1	0	MOUNTING RADIO	FT-237 (MODIFIED)

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AMRC 5	NMRC 6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIG-NATION	CON-TRACTOR DRAWING and PART NO.	ALL SYM-BOL DESIG. INVOL.
			CABINET ARMY-NAVY TYPE CY-731A/MRC						
X	X		CABINET: aluminum, Marine Corps Green finish; empty; 4 ft. lg by 19-1/2 in. wide by 20-1/2 in. deep o/a; interior bare; waterproof	waterproof housing for radio set	CY-731A/MRC	N16-C-10677-1170		41000	
X	X	A-101	CABINET: aluminum, Marine Corps Green finish; empty; 42-7/8 in. lg by 18-11/16 in. wide by 17-1/8 in. high; interior bare	cabinet w/o cover		N16-C-10676-8876		41000	A-101
X	X	A-102	COVER, TRANSMITTER-RECEIVER: aluminum and plexiglas; painted Marine Corps Green; over-all dim; 38-7/16 in. lg, 15-9/16 in. wide, 3-7/8 in. deep; 11 mounting clamps, 4 on 6-11/32 in. by 36-3/16 mounting centers, 4 spaced 8-3/4 in. between centers, 3 spaced 10-17/32 in. between centers; opening instructions marked on cover; waterproof	waterproof cabinet cover		N16-C-650001-855		41200	A-102
X	X	A-103	FRAME: aluminum, Marine Corps Green finish; rectangular shape w/rounded corners; 38-7/16 in. lg by 15-9/16 in. wide by 2 in. thick o/a; eleven 3/8 in. dia mounting holes, 4 on 7-3/8 in. by 36-3/16 in. mounting centers, 4 spaced 8-3/4 in. between centers, 3 spaced 10-17/32 in. between centers; cover opening instructions marked on frame; two 9-1/2 in. by 15-3/4 in. openings for plexiglas panes	cover frame		N16-F-950001-146		41201	A-103

X	X	A-104	WINDOW: plexiglas, rectangular, 16-3/4 in. lg by 10-7/16 in. wide by 1/4 in. thick o/a, mounts in frame, two 4-15/16 in. dia holes 8 in. c to c	window for cover		N16-W-63761-2813 (2ZA1352-158)		NP 1001 MC-7371	A-104 A-105
X	X	A-105	same as A-104	window for cover					
X	X	A-106	BRACKET: "Z" shape, aluminum, 17-1/2 in. lg by 1-3/8 in. wide by 3/4 in. thick o/a, four 5/16 in. dia mounting holes, 3 holes spaced 5-5/16 in. between centers, 2 holes 4-7/8 in. between centers, one 1/2 in. dia hole 9-15/16 in. from straight end, facing drilled side of bracket right hand end is tapered 45 degrees	holds window gasket		N16-B-750001-361 (2Z1244-80)		MX-1000 MC-23676	A-106
X	X	A-107	BRACKET: "Z" shape, aluminum, 12 in. lg by 1-3/8 in. wide by 3/4 in. thick o/a, three 5/16 in. dia mounting holes, one hole 23/32 in. from end, one hole 25/32 in. from other end, one hole 5-27/32 in. from end, two 1/2 in. dia holes spaced 7-3/8 in. c to c, both ends tapered 45 degrees	holds window gasket		N16-B-750001-358 (2Z1244-81)		MX-1002 MC-23677	A-107 A-108
X	X	A-108	same as A-107	holds window gasket					
X	X	A-109	BRACKET: "U" shape, aluminum, 9-5/8 in. lg by 2-1/4 in. wide by 1 in.,thick o/a, three 5/16 in. dia mounting holes spaced 4-1/4 in. between centers, two No. 19 holes spaced 2-1/4 in. c to c	holds window gasket		N16-B-750001-362 (2Z1244-78)		MX-1003 MC-23675	A-109
X	X	A-110	BRACKET: "Z" shape, aluminum; 17-1/2 in. lg by 1-3/8 in. wide by 3/4 in. thick o/a; four 5/16 in. dia mounting holes; 3 holes spaced 5-5/16 in. between centers; 2 holes 4-7/8 in. between centers; one 1/2 in. dia hole 9-15/16 in. from straight end; facing drilled side of bracket left hand end is tapered 45 degrees	holds window gasket		N16-B-750001-359 (2Z1244-83)		MX-1001 MC-23679	A-110

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AMRC5	NMRC6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIG-NATION	CON-TRACTOR DRAWING and PART NO.	ALL SYM-BOL DESIG. INVOL.
X	X	A-111	COVER, hand hole; aluminum, painted Marine Corps Green; over-all dim 5-1/2 in. dia; 2-3/4 in. thick; press fit mounted: neoprene gasket between plates; waterproof	waterproof cover for hand holes		N16-C-650001-320 (2Z3352.186)		AC-1001 MC-7359	A-111 A-112 A-113 A-114
X	X	A-112	same as A-111	waterproof cover for hand holes					
X	X	A-113	same as A-111	waterproof cover for hand holes					
X	X	A-114	same as A-111	waterproof cover for hand holes					
	X	A-115	MOUNTING: steel; Marine Corps Green finish; mounting data; four 1 in. by 1/4-20 threaded mounting studs on 10-3/8 in. by 6-3/8 in. mounting centers; four 11/32 in. dia mounting holes, two holes 10 in. c to c, two holes 8-3/8 in. c to c	dynamotor mounting				41400	A-115
X	X	A-116	MOUNTING: cold rolled steel; mounting data; four 1/4-20 NC-2 mounting holes, eight 5/16-24 NF-2 mounting holes, eight 3/8-24 NF-2 mounting holes, fourteen 1/4 in. dia mounting holes	for mounting radio set		N16-M-77589-7000		41500	A-116
X	X	A-117	MOUNTING: steel, painted green; mounting data; four mounting slots 7/16 in. wd by 1-3/8 in. lg, center slots 2-1/4 in. c to c, outside slots 10-3/4 in. c to c, four 9/16 in. dia mounting holes spaced 5 in. c to c and three 7/16 in. wd by 1-3/8 in. lg mounting slots spaced 4-3/4 in. c to c	sponson plate mounts cabi-net to jeep		N16-M-78949-9451		44100	A-117 A-118

X	X	A-118	same as A-117	sponson plate, mounts cabinet to jeep					
	X	A-119	PLATE, junction: aluminum, Marine Corps Green finish; rectangular; 9-1/4 in. lg by 1-3/4 in. wide by 0.063 in. thick o/a; four 0.201 in. dia mounting holes on 8-1/4 in. by 1-1/16 in. mounting centers	prevents contact between trans and receiver cases while jeep is in motion				MX-1014	A-119
X	X	A-120	BRACKET: "U" shape; steel painted Marine Corps Green; 16-1/4 in. lg by 2-5/8 in. wide by 1-25/32 in. thick o/a; four 15/16 in. lg by 7/16 in. wide mounting slots; 2 slots spaced 1 ft. c to c; 2 slots 10-3/4 in. c to c	adapts sponson plate to cabinet				44101	A-120 A-121
X	X	A-121	same as A-120	adapts sponson plate to cabinet					
X	X	E-101	BUS BAR: brass; rectangular; solid 1-1/8 in. wide by 1/16 in. thick; 2-1/4 in. lg o/a; five 0.173 in. dia mounting holes; four on 7/8 in. by 5/8 in. mounting centers; one 1/4 in. dia mounting hole 5/8 in. c to c from fifth 0.173 in. mounting hole	positive strap		N17-B-88898-1751 (2Z9052-102)		KT-1031 MC-23704	E-101
X	X	E-102	BUS BAR: brass; rectangular; solid; 1/2 in. wide by 1/16 in. thick; 2-1/4 in. lg o/a; two 0.173 in. dia mounting holes 1-1/4 in. c to c; one 1/4 in. dia mounting hole spaced 5/16 in. from one end	negative strap		N17-B-88896-7781 (2Z9052-101)		KT-1032 MC-23705	E-102
X	X	E-103	POST, BINDING: cap data; brass cap, nickel plated; base data; brass base, nickel plated; dim; 1 in. over-all height of post, above mounting surface 5/8 in. OD of post; mounting stud: 7/8 in. lg 7/32 in. dia, 12-24 thd; 5/32 in. max dia of wire opening	binding post for symbol TB-102	TM-195 modified	N17P-69141-1575	Eby 7304 modified	KT-1036-A	E-103 E-104 E-302 E-303
X	X	E-104	same as E-103	binding post for symbol TB-102					

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AMRC 5	NMRC 6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIG-NATION	CON-TRACTOR DRAWING and PART NO.	ALL SYM-BOL DESIG. INVOL.
X	X	H-101	CUSHION: type data: round; neoprene, spec data; military spec: spec no. MIL-R-15624 class 1; dim: center hole 0.565 in. dia, outside 1.062 in. dia, 0.375 in. nominal material thick-ness	cover cushion		N17-C-965001-409	Stillman NR-1044	NR-1044	H-101 H-102
X	X	H-102	same as H-101	cover cushion					
X	X	H-103	COLLAR, spacing: aluminum, cylin-drical, 0.375 in. OD by 0.125 in. thick o/a, 0.218 in. dia hole in center	wrench holder, spacer		N16-B-800177-161 (2 Z1409-182)		MC-1008 MC-23730	H-103 H-104 H-105 H-106
X	X	H-104	same as H-103	wrench holder, spacer					
X	X	H-105	same as H-103	wrench holder, spacer					
X	X	H-106	same as H-103	wrench holder, spacer					
X	X	H-107	SCREW, DOWEL: aluminum, head painted Marine Corps Green, semi-finished, "T" head, hand drive, head 2-1/2 in. lg by 7/8 in. across flats of hex, w/5-1/4 in. lg, handle, one 10-32 tapped hole in bottom 3/8 in. deep, one 5/8-11 NCT rh, one 7/16-20 NFT lh	secures hand hole covers		N43-S-99500-71 (6L17510-40)		AS-1001 MC-7383	H-107 H-108 H-109 H-110
X	X	H-108	same as H-107	secures hand hole covers					

X	X	H-109	same as H-107	secures hand hole covers					
X	X	H-110	same as H-107	secures hand hole covers					
X	X	H-111	WASHER, FLAT: round; stainless steel;dim: center hole 0.640 in. dia, outside 1 in. dia, nominal material thickness 0.032 in. thick	hand hole cover washer		N43-W-07611-0190 (6L58025-28)	California Gasket FW-1011	FW-1011 MC-7392	H-111 H-112 H-113 H-114
X	X	H-112	same as H-111	hand hole cover washer					
X	X	H-113	same as H-111	hand hole cover washer					
X	X	H-114	same as H-111	hand hole cover washer					
X	X	H-115	WASHER, FLAT: round, stainless steel, dim: center hole 0.453 in. dia, outside 0.750 in. dia, nominal material thickness 0.032 in. thick	hand hole cover washer		N43-W-7605-0040 (6L58027-12)	California Gasket FW-1012	FW-1012 MC-7390	H-115 H-116 H-117 H-118
X	X	H-116	same as H-115	hand hole cover washer					
X	X	H-117	same as H-115	hand hole cover washer					
X	X	H-118	same as H-115	hand hole cover washer					
X	X	H-119	NUT: stainless steel; spec no. MIL-S-854; semi-finished; thread data: 7/16-20 NFT class 2 fit lh thread; dim: 3/4 in. across flats, 2-1/4 in. lg, 1/4 in. high, diamond shape	hand hole cover locking nut		N43-N-4395-1750 (6L3327-20-38)		MY-1015 MC-7374	H-119 H-120 H-121 H-122

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AMRC 5	NMRC 6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIG-NATION	CON-TRACTOR DRAWING and PART NO.	ALL SYM-BOL DESIG. INVOL.
X	X	H-120	same as H-119	hand hole cover locking nut					
X	X	H-121	same as H-119	hand hole cover locking nut					
X	X	H-122	same as H-119	hand hole cover locking nut					
X	X	H-123	WASHER, FLAT: round, stainless steel; dim: center hole 0.187 in. dia, outside 0.656 in. dia, nominal material thickness 0.032 in. thick	hand hole cover washer		N16-W-180001-158 (6L58023-37)	California Gasket FW-1015	FW-1015 MC-23729	H-123 H-124 H-125 H-126 H-127 H-128 H-129 H-130
X	X	H-124	same as H-123	hand hole cover washer					
X	X	H-125	same as H-123	hand hole cover washer					
X	X	H-126	same as H-123	hand hole cover washer					
X	X	H-127	same as H-123	hand hole cover washer					
X	X	H-128	same as H-123	hand hole cover washer					
X	X	H-129	same as H-123	hand hole cover washer					

X	X	H-130	same as H-123	hand hole cover washer					
X	X	H-131	BOLT, MACHINE: stainless steel; spec data: military spec, spec no. MIL-S-854 (ships); finished; head data: Allen head, hex drive, 9/16 in. dia by 0.375 in. thick; thread data: 3/8-16, NCT class 2 fit, 1.344 in. lg; drilled for cotter pin; 2.625 in. nominal lgth	cover clamp bolt		N43-S-4379-845	Quality Socket Screw FS-1002B	FS-1002B	H-131 H-701
X	X	H-132	WASHER, FLAT: type data: round; stainless steel; spec data; military spec, spec no. MIL-S-854; dim: center hole 0.375 in. dia, 0.556 in. outside dia, 0.020 in. nominal material thickness, 0.373 in. dia nominal bolt size	cover clamp washer		N43-W-7600-125 (6L-58026-34)	California Gasket FW-1013	FW-1013 MC-7391	H-132 H-702
X	X	H-133	WASHER, FLAT: type data: round; neoprene; spec data: military spec, spec no. MIL-R-15624 class 1; dim: center hole 3/8 in. dia, outside 9/16 in. dia, 3/32 in. nominal material thickness for 0.373 in. dia bolt shank	cover clamp seal		N16-W-180001-153 (2Z4867-563)	Stillman NR-1030	NR-1030 MC-7368	H-133 H-703
X	X	H-134	COLLAR, SPACING: aluminum; cylindrical; 1-1/4 in. lg by 3/8 in. dia o/a, 1/4 in. dia mounting hole in center	spacer for symbol TB-101		N16C-600001-418 (2Z7259-80)		MS-1005 MC-23697	H-134 H-135
X	X	H-135	same as H-134	spacer for symbol TB-101					
X	X	H-136	BOLT, MACHINE: aluminum; spec data: Navy, spec no. 46A10D; semi-finished; head data: socket, allen hex; dim: 3/4 in. dia 1/4 in. high; thread data: 3/8-16, NCT, 1/2 in. min lgth; 7/8 in. nominal lgth	for securing expansion plug				41304	
X	X	H-137	WASHER, FLAT: neoprene; round; 1/2 in. OD by 7/32 in. ID 1/16 in. thick o/a	washer for symbol E-103, E-104		N17C-161016-736		NR-1048	H-137 H-138 H-303 H-304

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AN/MRC-5	AN/MRC-6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIGNATION	CONTRACTOR DRAWING and PART NO.	ALL SYMBOL DESIG. INVOL.
X	X	H-138	same as H-137	washer for symbol E-103, E-104					
X	X	H-139	WASHER, FLAT: type data; round aluminum; spec data: Navy, spec no. 47A10D; dim: center hole 0.515 in. dia, outside 0.875 in. dia, 1/8 in. nominal material thickness	stuffing tube gland ring		N43-W-248-4298	California Gasket TCS 41104-608-B	TCS 41104-608-B	H-139 H-140
X	X	H-140	same as H-139	stuffing tube gland ring					
X	X	H-141	WASHER, FLAT: type data: round; aluminum; spec data: Navy, spec no. 47A10D; dim; center hole 0.750 in. dia, outside 0.187 in. dia, 1/8 in. nominal thickness	stuffing tube gland ring		N43-W-248-5210	California Gasket TCS 41104-608-F	TCS 41104-608-F	H-141 H-142
X	X	H-142	same as H-141	stuffing tube gland ring					
X	X	H-143	WASHER, FLAT: type data: round; aluminum; spec data: Navy, spec no. 47A10D; dim; center hole 0.812 in. dia, outside 1.375 in. dia, 1/8 in. nominal material thickness	stuffing tube gland ring		N43-W-248-5235	California Gasket TCS 41104-608-G	TCS 41104-608-G	H-143 H-144 H-301
X	X	H-144	same as H-143	stuffing tube gland ring					
X	X	H-145	BOLT, EYE: steel; spec data; AISI, no. B1113; eye data; dim: 5/8 in. OD, 3/8 in. ID; thread data: 8-32, NCT, 3/4 in. min lgth; 1-1/2 in. lg o/a	secures cable connections		N43-B-14667-69		52305	H-145 H-302

X	X	I-101	LAMP, INCANDESCENT: electrical rating data: 28v, 6 candle power; lamp data, MBCA ref dwg group 7: double contact bayonet candelabra indexing; bulb data: S-6, clear, white; filament data: 1, 2 RC; 1-3/8 in. max over-all height; over 25 hr rated life; any burning position	illuminates radio set cabinet		N17-L-6697-20	CG 304	VL-1001	I-101 I-102
X	X	I-102	same as I-101	illuminates radio set cabinet					
X	X	I-103	INDICATOR, MOISTURE: 1-1/16 in. OD by 1-1/8 in. lg; mounts by 3/4 in. American Standard Pipe thread; for general purpose use; silica gel crystals in a clear plastic container; moisture in equipment indicated when crystals turn pink	indicates the presence of moisture in cabinet			CBCO 1185	P-1000	I-103 I-301 I-701
	X	J-101	CONNECTOR, RECEPTACLE: contact data: 9 contacts, male, round, polarized, straight type; over-all dim: 1-1/4 in. lg by 1-1/4 in. wide by 3/4 in. high; contacts electrical ratings: 10 amp; body data: cylindrical shape, aluminum, sand blast and clear lacquer finish; locking type, moulded phenolic insert; mounting data: four 0.123 in. dia mounting holes, 0.972 in. by 0.972 in. mounting centers; 1-3/16-6 coupling nut threads	receptacle for W-106		N17-C-73554-3354 (2Z3029-2)	CED GK-9-32S	KJ-1008 MC-7344	J-101
X	X	O-101	GASKET: neoprene; single hole; rectangular; 37-13/16 in. lg by 14-7/8 in. wide by 5/8 in. thick o/a	cover gasket		N17G-160030-889	Stillman 41202	41202	O-101
X	X	O-102	GASKET: window gasket; neoprene single hole; rectangular: 17-1/16 in. lg by 10-13/16 in. wide by 10-13/16 in. wide by 9/16 in. thick o/a	window gasket		N17-G-159008-911 (2Z4867.557)	Stillman NR-1014	NR-1014 MC-7364	O-102 O-103
X	X	O-103	same as O-102	window gasket					
X	X	O-104	HOLDER, WRENCH: monel or SS; spring mounted; one mounting loop formed on each end of spring 2-1/2 in. lg by 0.412 in. dia	wrench holder		N41-H-02381-0550 (2Z5042-72)	Seaboard MW-1013	MW-1013 MC-7372	O-104 O-705

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AN/MRC-5	AN/MRC-6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIG-NATION	CON-TRACTOR DRAWING and PART NO.	ALL SYM-BOL DESIG. INVOL.
X	X	O-105	STRAP, RETAINING: black neoprene; 15-3/4 in. lg o/a; two terminal lugs Waterproof Electric Co. part no. KT-1027, one on each end	retains hand hole covers		N16-R-500961-102 (2Z7780-101)		AX-1000 MC-7353	O-105 O-106
X	X	O-106	same as O-105	retains hand hole covers					
X	X	O-107	PLATE, cover: aluminum, painted Marine Corps Green, round, 5.375 in. dia by 0.500 in. thick o/a, one 0.625 in. dia mount-hole in center	hand hole cover outer plate		N16-P-401881-160 (2Z-7091-282)		MC-1000 MC-7381	O-107 O-108 O-109 O-110
X	X	O-108	same as O-107	hand hole cover outer plate					
X	X	O-109	same as O-107	hand hole cover outer plate					
X	X	O-110	same as O-107	hand hole cover outer plate					
X	X	O-111	GASKET: hand hole cover; neoprene; single hole; round; 5.375 in. dia by 0.812 in. thick o/a, center hole 0.569 in. dia	hand hole cover gasket		N17-G-163258-501 (2Z4867.559)	Stillman NR-1021	NR-1021 MC-7387	O-111 O-112 O-113 O-114
X	X	O-112	same as O-111	hand hole cover gasket					
X	X	O-113	same as O-111	hand hole cover gasket					
X	X	O-114	same as O-111	hand hole cover gasket					

X	X	O-115	PLATE, cover: aluminum, painted Marine Corps Green, round, 4.863 in. dia by 0.500 in. thick o/a, one 5/8-11 NC tapped mounting hole in center	hand hole cover inner plate		N16-P-401881-161 (2Z7091-281)		MC-1001 MC-7380	O-115 O-116 O-117 O-118
X	X	O-116	same as O-115	hand hole cover inner plate					
X	X	O-117	same as O-115	hand hole cover inner plate					
X	X	O-118	same as O-115	hand hole cover inner plate					
X	X	O-119	CLAMP, COVER: stainless steel; cadmium plated; fastening devise data; 1 bolt type; over-all dim: 2.625 in. lg, 1-13/32 in. wide, 1 in. thick; mounts in 0.375 in. dia hole	secures cabinet cover		N16-C-304295-101 (2Z2642.166)		FA-1000 MC-7358	O-119 O-702
X	X	O-120	SPRING: helical compression type; 0.080 in. dia stainless steel wire, 1.375 in. lg by 0.562 in. dia o/a, 10-1/2 turns; flat ground ends	cover clamp spring		N17-S-46669-4691 (2Z8877.292)	California Spring MW-1012	MW-1012 MC-7389	O-120 O-703
X	X	O-121	BRACKET: "L" shape; stainless steel; 1-13/32 in. lg by 31/32 in. high by 1 in. wide o/a, one 3/8-16 NC-2 threaded mounting hole in bottom 7/32 in. from one end	cover clamp locking angle		N16-B-750001-343 (2Z1244-71)		MZ-1000 MC-7356	O-121
X	X	O-122	PLATE, BAFFLE: aluminum; over-all dim: 7-3/4 in. lg by 4-3/8 in. wide by 5/8 in. high, two 0.196 dia mounting holes spaced 6-7/8 in. c to c	terminal board, baffle plate				41450	O-122
X	X	O-123	CAP: aluminum, Marine Corps Green finish; for 1-1/4 in. dia hole, u/w 3/8-16 socket head screw, 1-1/2 in. dia by 1-3/16 in. thick o/a; neoprene gasket, between inner and outer plates; neoprene retaining cord attached to bottom	waterproof seal		N16-C-146505-201		41300	O-123

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AMRC 5	NMRC 6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIG-NATION	CON-TRACTOR DRAWING and PART NO.	ALL SYM-BOL DESIG. INVOL.
X	X	O-124	PLATE, pressure: aluminum; painted Marine Corps Green; round; 1-1/2 in. dia by 1/4 in. thick o/a; one 3/8 in. dia csk mounting hole in center	expansion plug outer plate		N16-P-404281-105		41301	O-124
X	X	O-125	GASKET: expansion plug gasket; neoprene; one hole; round, 1-1/2 in. dia by 11/32 in. thick o/a, 3/8 in. dia center hole	expansion plug gasket		N17-G-161400-191	Stillman 41302	41302	O-125
X	X	O-126	PLATE, pressure: aluminum; round; 1-3/16 in. dia by 3/8 in. thick o/a; 3/8-16 NC-2 tapped mounting hole in center	expansion plug inner plate		N16-P-404281-106		41303	O-126
X	X	O-127	STRAP, retaining: black, neoprene; approx 13 in. lg by 3/8 in. wide by 1/4 in. thick o/a; two Thomas and Betts Co. stakon terminals catalog no. C-77, one each end	retains expansion plugs		N16-S-692001-134		AX-1002	O-127
X	X	O-128	GASKET: terminal board gasket; neoprene; 7 holes; rectangular, 2-3/8 in. lg by 1-1/4 in. wide by 1/16 in. thick o/a	gasket for symbol TB-102		N17-G-154592-331		NR-1046	O-128 O-302
X	X	O-129	GASKET: moulded neoprene; round, 1.390 in. dia by 0.309 in. thick o/a, one 0.790 in. dia hole in center	stuffing tube "O" ring		N17-G-161342-101 (2Z4867.560)	Stillman NR-1017	NR-1017 MC-7369	O-129 O-130 O-303 O-304
X	X	O-130	same as O-129	stuffing tube "O" ring					

X	X	O-131	PACKING: moulded neoprene; round, 1.203 in. dia by 0.276 thick o/a, one 0.650 in. dia hole in center	stuffing tube "O" ring		N17-P-125001-296 (2Z4867.562)	Stillman NR-1018	NR-1018 MC-7366	O-131 O-132
X	X	O-132	same as O-131	stuffing tube "O" ring					
X	X	O-133	PACKING: moulded neoprene; round, 0.890 in. dia by 0.242 in. thick o/a, one 0.405 in. dia hole in center	stuffing tube "O" ring		N17-P-125001-295 (2Z4867.561)	Stillman NR-1019	NR-1019 MC-7367	O-133 O-134
X	X	O-134	same as O-133	stuffing tube "O" ring					
X	X	O-135	PLUG, STUFFING TUBE: neoprene; over-all dim: 9/16 in. lg 7/8 in. dia; 7/8 in. OD of body; 9/16 in. thick disk; designed for specific size stuffing tube, Waterproof Electric Co., stuffing tube, B size designation	for sealing unused stuffing tube		N17-P-61046-8496	Stillman NR-1055	NR-1055	O-135
X	X	O-136	CLAMP, ELECTRICAL: steel; painted finish; fastening device data: 1 bolt type, over-all dim; 2-1/8 in. by 1 in. wide by 7/8 in. high, designed to hold 7/8 in. dia cable, two 17/64 in. dia mounting holes	cable hold down clamp		N17-C-783001-101 (6Z1932-33)		F-1000 MC-7357	O-136
X	X	P-101	CONNECTOR, PLUG: contact data: 3 contacts, male, rd; polarized; straight type; over-all dim: 1-1/2 in. lg, 1-3/4 in. dia; contacts electrical rating: 60 amp, 500 v DC; body data: cylindrical shape, aluminum, cadmium plated, locking type; neoprene insert; mounting data: 1-3/4 in. OD coupling nut, 1.375-18NF-2 coupling nut thread	plug for W-116		N17-C-71465-2180	Bendix 60-42662-2P	7722367	P-101
	X	P-102	CONNECTOR, PLUG: contact data: 16 contacts, female, round, polarized, angle type, 90° angle, over-all dim: 1-31/32 in. lg by 1-7/16 in. wide by 1-7/8 in. high, contacts electrical ratings: 14 contacts 10 amp; 2 contacts 30 amp, body data: "L" shape, aluminum,	plug for W-104	49894	N17-C-70886-4959 (2Z3077-11)	CED SK-C16-23-1/2 AC	KJ-1007 MC-7343	P-102 P-103

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AN/MRC-5	AN/MRC-6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIGNATION	CONTRACTOR DRAWING and PART NO.	ALL SYMBOL DESIG. INVOL.
	X	P-102	sand blast and clear lacquer finish, locking type, molded phenolic, insert, 9/16 in. dia cable opening, 1-5/16-6 coupling nut thread						
	X	P-103	same as P-102	plug for W-104					
	X	P-104	CONNECTOR, PLUG: contact data: 12 contacts, female, round, polarized, angle type, 90° angle, over-all dim: 1-31/32 in. lg by 1-5/16 in. wide by 1-3/4 in. high, contact electrical ratings: 10 amp, body data: "L" shape, aluminum, sand blast and clear lacquer finish, locking type, molded phenolic insert, 9/16 in. dia cable opening, 1-3/16-6 coupling nut thread	plug for W-103	49900	N17-C-70876-4301 (2Z3073-20)	CED GK-12-23-1/2 AC	KJ-1005 MC-7342	P-104 P-105
	X	P-105	same as P-104	plug for W-103					
	X	P-106	CONNECTOR, PLUG: contact data: 9 contacts, female, round, polarized, angle type, 90° angle, over-all dim: 1-31/32 in. lg by 1-5/16 in. wide by 1-3/4 in. high, contact electrical ratings: 10 amp, body data: "L" shape, aluminum, sand blast and clear lacquer finish, locking type, molded phenolic insert, 9/16 in. dia cable opening, 1-3/16-6 coupling nut thread	plug for W-102	49897	N17-C-70869-7468 (2Z3070-19)	CED GK-9-23-1/2 AC	KJ-1006 MC-7341	P-106 P-107
	X	P-107	same as P-106	plug for W-102					

X	X	S-101	SWITCH, TOGGLE: single-pole, single-throw; electrical data, 15 amp, 115 v AC; molded bakelite body; over-all dim, excluding terminals, barriers, bushing and handle: 1-3/16 in. lg, 5/8 in. wide, 5/8 in. high; actuating handle data: bat type, 5/8 in. lg excluding lgth of bushing: locking action: terminal data: 2 terminals, solder lug type, located on bottom; mounting data: single hole mounting type, 15/32 in. dia bushing, 32 threads per inch, 1/2 in. lg from mounting surface	cabinet light switch	ST-42A	N17-S-70412-4406 (3Z9863-42A)	CAE 8803-K6	KS-1000	S-101 S-301
X	X	TB-101	TERMINAL BOARD: moulded phenolic board; terminal data: includes terminals, 20 terminals, internally threaded stud type, w/o barriers; over-all dim: 7-1/4 in. lg by 1-3/8 in. wide by 1-1/8 in. high, two 1/4 in. dia mounting holes spaced 6-7/8 in. c to c	connections from control cable to radio set		N17-B-78139-6696 (3Z770-20.4)	Ketchum KT-1034	KT-1034 MC-7317	TB-101
X	X	TB-102	TERMINAL BOARD: laminated nylon; w/o terminals: accommodates 2 terminals; w/o barriers, over-all dim: 2-3/8 in. lg, 1-1/4 in. wide, 3/8 in. thick; five 8-32 threaded mounting holes 9/32 in. deep, 4 holes on 2 in. by 7/8 in. mounting centers, 1 hole in center of board	not used		N17-B-77410-5709		KT-1038	TB-102 TB-301
X	X	W-101	LEAD, electrical: tinned copper braid; no insulation; approx 4-1/2 in. lg excluding terminations; one Thomas and Betts Co. terminal lug catalog no. E-71 on one end; one Thomas and Betts Co. terminal lug catalog no. E-26 on other end	ground strap				KW-1034	W-101
	X	W-102	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: cable data; type identification; military spec: SRI-1, SRI-3, SRI-6; conductor details: two stranded no. 12 AWG resin insulated, two stranded no. 16 AWG resin insulated, three stranded no. 20 AWG resin insulated; data on shields: shield around all conductors; metal braid; shield not covered;	power supply to J-101 connection		N17-C-48744-1001 (3E7350-1.41.2)		KW-1000 MC-7327	W-102

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AN/MRC-5	AN/MRC-6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIGNATION	CONTRACTOR DRAWING and PART NO.	ALL SYMBOL DESIG. INVOL.
	X	W-102	44-5/16 in. lg o/a; termination data: terminal fittings on first end: 1 Cannon Electric connector plug part no. GK-9-23-1/2; terminal fittings on second end: 1 Cannon Electric connector plug part no. GK-9-23-1/2						
	X	W-103	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: cable data; type identification; military spec: SRI-1, SRI-3, SRI-6; conductor details: two stranded no. 12 AWG resin insulated, two stranded no. 16 AWG resin insulated, three stranded no. 20 AWG resin insulated; data on shields: shield around all conductors; metal braid; shield not covered; 47-15/16 in. lg o/a; terminal data: terminal fittings on first end, 1 Cannon Electric connector plug part no. GK-12-23-1/2; terminal fittings on second end: 1 Cannon Electric connector plug part no. GK-12-23-1/2	power supply to receiver cable		N17-C-48382-5601 (3E7350-1.45)		KW-1001 MC-7330	W-103
	X	W-104	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: cable data: type identification; military spec: SRI-1, SRI-3; conductor details: four stranded no. 16 AWG resin insulated, seven stranded no. 20 AWG resin insulated; data on shields: shield around all conductors; metal braid; shield not covered; 31-15/16 in. lg o/a; termination data: terminal fittings on first end, 1 Cannon Electric connector plug part no. SK-C16-23-1/2; terminal fittings on second end: 1 Cannon Electric connector plug part no. SK-C16-23-1/2	power supply to transmitter cable		N17-C-48841-8521 (3E7350-1.29)		KW-1002 MC-7329	W-104

	X	W-105	WIRING HARNESS: main body conductor data: 2 conductors, no. 9 AWG, copper, stranded, synthetic vinylite insulation each conductor, 600 v DC working voltage per conductor; over-all length: 60 in. lg: 4 vinylite sleeves spaced approx one foot apart binds conductors together; termination data: 4 terminations, 2 located on each end, Thomas and Betts Co. stakon terminal lugs catalog no. D-71, red dot on terminals indicates polarity	battery cable		N17-W-300030-501 (3E7350.1-60.2)		KW-1004 MC-7322	W-105
	X	W-106	WIRING HARNESS: main body conductor data: 9 conductors no. 16 AWG, copper, stranded, cotton covered braid each conductor, 300 v working each conductor, over-all length; approx 9-15/16 in. lg, laced with twine or extruded synthetic insulation tubing, termination data: one termination, located on one end, Cannon Electric connector receptacle part no. GK-9-32S, seven terminations located on other end, five Thomas and Betts Co. stakon terminal lugs catalog no. B-5 and two Thomas and Betts Co. stakon terminal lugs catalog no. C-39, color coded conductors	J-101 to TB-101 connection		N17-W-300253-601 (3E7350.1-6.2)		KW-1003 MC-7331	W-106
	X	W-107	LEAD, electrical: one no. 16 AWG stranded copper conductor, 19 strands no. 30 AWG, rubber, vinylite, black, 5000 v working, rubber, vinylite, 14 in. lg excluding terminations, terminal pin Waterproof Electric part no. KT-1000, one each end	transmitter to receiver lead		N17-L-62718-5518 (3E7998-14.2)		KW-1005 MC-7336	W-107
	X	W-108	LEAD, electrical: one no. 16 AWG stranded copper conductor, 19 strands no. 30 AWG, rubber, vinylite, black, 5000 v working, rubber, vinylite, 16 in. lg excluding terminations, terminal lug Sherman part no. A 3/8-70 amp, one each end	transmitter to load coil lead		N17-L-62735 1001		KW-1006 MC-7337	W-108

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AMRC 5	NMRC 6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIGNATION	CONTRACTOR DRAWING and PART NO.	ALL SYMBOL DESIG. INVOL.
	X	W-109	LEAD, electrical: one no. 16 AWG stranded copper conductor, 7 strands no. 25 AWG, polyethylene insulation, black, 10,000 v working, polyethylene, 42-11/16 in. lg excluding terminations, one terminal pin Waterproof Electric part no. KT-1001 on one end, one terminal lug Sherman part no. A1/2-125 amp other end	antenna lead		N17-L-62876-5001 (3E7998-43)		KW-1007 MC-7334	W-109
	X	W-110	LEAD, electrical: one 3/16 in. dia tinned copper rope, 6-5/8 in. lg excluding terminations, one terminal pin Waterproof Electric part no. KT-1002 on one end, one terminal lug Thomas and Betts Co. part no. E-72 other end	receiver ground strap		N17-L-62656-5001		KW-1008 MC-7333A	W-110
	X	W-111	LEAD, electrical: one 3/16 in. dia tinned copper rope; 5 in. lg excluding terminations, terminal lug Thomas and Betts Co. part no. E-72, one on each end	transmitter ground strap		N17-L-62644-1001 (3E7998-5.4)		KW-1009 MC-7332A	W-111
X		W-112	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: cable data; type identification: Navy, type no. MCOS-7, conductor details: 7 conductors, stranded, 1608 cir mils, 18 AWG, synthetic resin insulated; thermoplastic jacket; data on shields: shield around all conductors, tinned copper braid; 38-3/4 in. lg over-all; termination data: terminal fittings on first end, 6, Thomas and Betts Co., lug type terminal, catalog no. B-5, conductors on second end extend 1-1/2 in. and 2 in. beyond end of jacket, wires tinned, 600 v working	from TB-101 to terminal board in FT-237 connection		N17-C-48381-4376		KW-1028	W-112

X	X	W-113	LEAD, electrical: one no. 18 AWG stranded copper conductor, 19 no. 30 AWG strands, 600 v working, insulation in accordance w/MIL-W-5086, three in. lg excluding terminations, two Thomas and Betts Co. stakon terminal lugs part no. B-5, one each end	terminal board jumper		N17-L-62685-8014 (3E7998-3.3)		KW-1023 MC-7326	W-113
X		W-114	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: cable data: type identification: Signal Corps, type no. CO-212; conductor details: 1, stranded, no. 8 AWG, buna S compound insulated, 1 stranded, 16,564 cir mils, cotton insulated, buna S jacket; data on shields: shield around one conductor, tinned copper braid; 3 ft 2-1/2 in. lg o/a; termination data: terminal fittings on first end, 1, Thomas and Betts Co., terminal lug, catalog no. C-71, 1, Thomas and Betts Co., terminal lug, catalog no. E-71; terminal fittings on second end: 1, Thomas and Betts Co., terminal lug, catalog no. C-71, 1 Thomas and Betts Co., terminal lug, catalog no. E-71; special features data: conductor stranding, 49 strands, 0.0184 in. dia, 42 strands, 0.0201 in. dia no. 24 AWG	connects TB-101 to terminal strip in FT-237		N17-C-48574-9001		KW-1012 MC-7318	W-114
X		W-115	CABLE ASSEMBLY, RADIO FREQUENCY: cable data; AN; radio frequency cable; type no. RC-11/U; coaxial; 75 ohms characteristic impedance; 5000 v root-mean-square max operating voltage; conductor data: single conductor, 7 strands, no. 26 AWG, copper wire, tinned; dielectric data: polyethylene, 0.285 in. OD; shield data: single, copper, plain finish; round shape; 0.420 in. dia; black vinyl jacket; lgth data: assy 67-1/4 in. lg over-all, assy 66 in. lg excluding terminations; termination data; terminal pin: Waterproof Electric Co., part no. KT-1000, two, located one on each	antenna cable		N16-C-11634-4891		KW-1030	W-115

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AMRC 5	NMRC 6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIGNATION	CONTRACTOR DRAWING and PART NO.	ALL SYMBOL DESIG. INVOL.
X		W-115	end of inside conductor; lug terminal: Thomas and Betts Co., catalog no. C-26, one, located on one end of shield; 4 in. lg braid on other end of shield						
X	X	W-116	CABLE ASSEMBLY, POWER ELECTRICAL: cable data; type identification: Navy, type no. DRIA 23; conductor details: 2 conductors, stranded, 22,800 cir mils, synthetic resin insulated; materials in sequence from insulated conductors out: cotton covered, cotton filler, copper braid; 600 v 51-1/4 in. lg over-all; termination data; terminal fittings on first end: 2, Thomas and Betts Co., lug type, catalog no. F-72, terminal fittings on second end: 1, Cannon Electric, connector plug, part no. 7722367	power cable		N17-C-48215-9057		KW-1026	W-116
X	X	W-117	WIRING HARNESS: main body conductor data: 3 conductors, no. 16 AWG, copper, stranded; breakout conductor data: 6 conductors, no. 16 AWG, copper, stranded; cotton braid insulation each conductor; 1000 v working each conductor; over-all length: 62-5/8 in. lg main body, 1 in. lg breakouts; vinylite sleeves approx 5 in. apart bind conductors together; termination data: 2 terminations, located on one end, Thomas and Betts Co., stakon terminal, catalog no. B5; color coded conductors	cabinet light cable		N17-W-300080-669		KW-1027	W-117

X	X	XI-101	LAMPHOLDER: single holder; accommodates double contact bayonet candelabra lamp base MBCA ref dwg group 7; maximum electrical rating: 110 v, 3 amp: brass body; over-all dim: 1-1/16 in. dia 1-3/8 in. lg; terminal data: 2 terminals, insert type; mounts w/28-3/4 nut; w/lockwasher and nut	lampholder for symbol I-101		N17-L-51709-4532 (2Z5883.329)	CASO 411	KX-1000 MC-7347	XI-101 XI-102
X	X	XI-102	same as XI-101	lampholder for symbol I-102					
X	X		WRENCH: allen wrench; 5/16 in. across flats of hex; 4 in. lg by 1-5/8 in. wide by 3/8 in. thick; 90 degree off-set from handle; straight hex handle; for 5/16 in. hex head, 5/8 set, 3/8-7/16 cap	for removing and replacing cabinet cover		G41-W-02455-2 (6R55075-6)	Standard JL	ZT-1011 MC-7393	
			CONTROL, RADIO SET C-1217/MRC						
X	X		CONTROL, RADIO SET: manual control; controls c/o: 1 volume control; 3 on-off switches; operating power requirements; DC, 24 v, aluminum case; Marine Corps Green finish; over-all dim: 10-1/2 in. lg, 8-3/4 in. wide, 7-1/4 in. high; four 17/64 in. dia mounting holes on 5-3/4 in. by 4 in. mounting centers; includes speaker; waterproof	provides remote control of radio set	C-1217/MRC	N16-C-89790-3926		45000	
X	X	A-301	CABINET: control box cabinet; aluminum; painted Marine Corps Green; empty; 9-3/4 in. lg by 7 in. wide by 6-1/4 in. high o/a; bare interior; stuffing tube on one end; w/o cover	waterproof housing for control, radio set		N16-C-10607-7751		45101	A-301
X	X	A-302	COVER, ELECTRICAL, CONTROL BOX: aluminum; olive drab; over-all dim: 7-15/16 in. lg, 7-7/8 in. wide, 4-9/16 in. high; 14 mounting holes 11/64 in. dia, 4 holes 2 in. c to c, 3 holes 2-1/4 in. c to c,	waterproof cover for control box		N16-C-650001-856		45201	A-302

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AN/MRC-5	AN/MRC-6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIGNATION	CONTRACTOR DRAWING and PART NO.	ALL SYMBOL DESIG. INVOL.
X	X	A-302	4 holes 1-3/4 in. c to c, 3 holes spaced 2 in. c to c and 1-15/16 in. c to c, access to inside of control box						
X	X	C-301	CAPACITOR, FIXED, PAPER DIELECTRIC: 1 section, capacitance data: 2 mf ± 10%; working voltage: 600 v DC, hermetically sealed metal can, case dim excluding terminals: 2-3/4 in. lg by 2 in. wide by 1-3/16 in. high; terminal data; 2 terminals, solder lug type, 5/16 in. high, located on side, spaced 1 in. c to c on insulators, oil impregnated, no internal ground connections, mounting data: 2 integral mounting ears, spaced 2-3/8 in. c to c, Dykanol "G" filled	blocking capacitor		N16-C-49197-3870	CD DYR-6200	CP-1000	C-301 C-302
X	X	C-302	same as C-301	blocking capacitor					
X	X	E-301	BUS BAR: tinned copper, rectangular, solid, 3/8 in. wide by 0.032 in. thick, 1-1/4 in. lg overall, two 3/16 in. dia mounting holes spaced 7/8 in. c to c	lug jumper		N17-B-88895-6094 (2Z9052-103)		KT-1007 MC-23703	E-301
X	X	E-302	POST, BINDING: cap data; brass cap, nickel plated; base data; brass base, nickel plated; dim; 1 in. overall height of post, above mounting surface, 5/8 in. OD of post; mounting stud: 7/8 in. lg, 7/32 in. dia, 12-24 threads; 5/32 in. max dia of wire opening (same as E-103)	binding post for TB-301		N17-P-69141-1575	EBY TM-195 modified	KT-1036-A	E-302 E-303 E-103

X	X	E-303	same as E-302	binding post for TB-301						
X	X	H-301	WASHER, FLAT: type data; round; aluminum; spec data: Navy, spec no. 47A10D; dim: center hole 0.812 in. dia, outside 1.375 in. dia, 1/8 in. nominal material thickness (same as H-143)	control box stuffing tube gland ring			California Gasket TCS 41104-608-G	TCS 41104-608-G	H-301 H-143	
X	X	H-302	BOLT, EYE: steel; spec data; AISI, no. B1113; eye data; dim: 5/8 in. OD, 3/8 in. ID; thread data: 8-32, NCT, 3/4 in. min lgth; 1-1/2 in. lg o/a (same as H-145)	secures cable connections				52305	H-302 H-145	
X	X	H-303	WASHER, flat: neoprene; round; 1/2 in. OD by 7/32 in. ID by 1/16 in. thick o/a (same as H-137)	washer for symbol E-302		N17-C-161016-736	Stillman NR-1048	NR-1048	H-303 H-304 H-137	
X	X	H-304	same as H-303	washer for symbol E-303						
X	X	I-301	INDICATOR, MOISTURE: 1-1/16 in. OD by 1-1/8 in. lg; mounts by 3/4 in. American Standard Pipe thread; for general purpose use; silica gel crystals in a clear plastic container; moisture in equipment indicated when crystals turn pink; (same as I-103)	indicates the presence of moisture in control unit			CBCO 1185	P-1000	I-301	
X	X	J-301	JACK, TELEPHONE: plug accommodation data: for 2 conductor plug; shank dim: 1/4 in. dia, contact data: contact arrangement J1, MBCA ref dwg group 4, over-all dim: 1-15/16 in. lg by 1-1/16 in. dia, 1/4 in. dia mounting hole required; waterproofed	headset jack		N17-J-39248-8993 (2Z5598-26)		KW-2010 MC-7400	J-301 J-302	
X	X	J-302	same as J-301	headset jack						
X	X	J-303	JACK, TELEPHONE: plug accommodation data: for 3 conductor plug, shank dim: 3/16 in. dia; contact data: contact arrangement J2, MBCA ref dwg group 4, over-all dim: 1-15/16 in. lg by 1-1/16 in. dia, 7/32 in. dia mounting hole required, waterproofed	microphone jack		N17-J-39473-3301 (2Z5598-24)		KW-2003 MC-7401	J-303 J-304	

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AMRC 5	NMRC 6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIG-NATION	CON-TRACTOR DRAWING and PART NO.	ALL SYM-BOL DESIG. INVOL.
X	X	J-304	same as J-303	microphone jack					
X	X	K-301	RELAY, ARMATURE: contact data; contact arrangement 1A1C, MBCA ref dwg group 4; single throw section normally open; single break; DC; 115 v; 1.5 amp; coil data: 1 winding; 1 inductive winding, DC, 500 ohms resistance, 8 to 30 v operating voltage, 0.024 to 0.060 amp operating current; terminal data: 5 terminals on contacts, 2 terminals on coil; continuous duty; over-all dim: 2-11/16 in. lg, 1-1/8 in. wide, 1-1/2 in. deep; four 1/8 in. dia mounting holes on 7/8 in. by 9/16 in. mounting centers; fungus proofed	keying relay		N17-R-64848-5279	CATM PR-1008	PR-1008	K-301
X	X	LS-301	LOUDSPEAKER, DYNAMIC: field data: permanent magnet field; 8 ohms voice coil impedance; input wattage data; 4 W normal, 8 W peak; cone type: 4 in. dia cone; output transformer not included; over-all dim: 4-1/16 in. lg 4-1/16 in. wide, 2-1/2 in. deep; four 5/32 in. dia mounting holes on 3-5/16 in. by 3-5/16 in. mounting centers; blast proof, submergence proof	loudspeaker for local radio set control unit		N17-L-91272-8691	CUL C4BF	SP-1001	LS-301
X	X	N-301	PLATE, IDENTIFICATION: 1 plate; aluminum; color data: white letters, Marine Corps Green background; inscribed "SPARE SPEAKER TRANS-REC" on front, and "RECEIVER SPEAKER TRANSMITTER" on back; over-all dim: 5 in. lg 1/2 in. wide, 1/16 in. thick; three no. 28 mounting holes spaced 2-5/16 in. between centers; reversible	indicates functions of S-301, S-302, S-303		N16-P-403502-178		45204	N-301

X	X	O-301	GASKET: neoprene; 15 holes; rectangular, 7-7/8 in. lg by 6-7/8 in. wide by 3/32 in. thick o/a; rounded corners	control box cover gasket		N17-G-157006-500	Stillman 45202	45202	O-301
X	X	O-302	GASKET: terminal board gasket; neoprene; 7 holes; rectangular, 2-3/8 in. lg by 1-1/4 in. wide by 1/16 in. thick o/a (same as O-128)	gasket for symbol TB-301			Stillman NR-1046	NR-1046	O-302 O-128
X	X	O-303	GASKET: moulded neoprene; round; 1.390 in. dia by 0.309 in. thick o/a; one 0.790 in. dia hole in center (same as O-129)	packing for control box control		N17-G-161342-101 (2Z4867.560)	Stillman NR-1017	NR-1017	O-303 O-304 O-129
X	X	O-304	same as O-303	packing for control box control					
X	X	O-305	COVER: includes 3 washers, diaphragm, ring, cap and spring, hard rubber, 1-1/2 in. lg by 1 in. wide by 7/8 in. high o/a, one 3/8 in. dia mounting hole on bottom	waterproof jack cover		N17-C-201589-101 (2Z3351-175)		KA-1002 MC-7397	O-305 O-306 O-307 O-308 O-501 O-502
X	X	O-306	same as O-305	waterproof jack cover					
X	X	O-307	same as O-305	waterproof jack cover					
X	X	O-308	same as O-305	waterproof jack cover					
X	X	O-309	BOOT: black rubber; 1.036 in. dia by 0.938 in. high o/a; mounts by means of spring around bottom	waterproof switch cover		N17-B-700001-104 (2Z3351-174)	Stillman NR-1001	NR-1001 MC-7396	O-309 O-310 O-311
X	X	O-310	same as O-309	waterproof switch cover					
X	X	O-311	same as O-309	waterproof switch cover					
X	X	O-312	GASKET: speaker gasket; neoprene; 5 holes; rectangular 3-7/8 in. lg by 3-7/8 in. wide by 0.062 in. thick; rounded corners, 4 holes 3/16 in. dia on 3-5/16 in. by 3-5/16 in. centers, 1 center hole 3-3/8 in. dia	speaker gasket		N17-G-155339-389	CUL 60G29	45106	O-312

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AN/MRC-5	AN/MRC-6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIGNATION	CONTRACTOR DRAWING and PART NO.	ALL SYMBOL DESIG. INVOL.
X	X	R-301	RESISTOR, FIXED, COMPOSITION: body style no. 14; MBCA ref dwg group 2; resistance data: 620 ohm total resistance, ± 10% tolerance, 1/2 w power dissipation, E characteristic, body dim excluding terminals MBCA ref dwg group 2, 0.406 in. lg by 0.175 in. dia, insulated; terminal data: 2 terminals, axial wire lead type, 1-1/2 in. lg	used with R-304 volume control		N16-R-49823-781	IRC type BT	RC-1000	R-301 R-302
X	X	R-302	same as R-301	used with R-304 volume control					
X	X	R-303	RESISTOR, VARIABLE: composition element; resistance and tolerance data: 3 sections, first section 5000 ohm, second section 100000 ohm, third section 50000 ohm, 1/2 w each section, special taper, first section 50, 100, 200 ohm at 35, 50, 65% rotation, second section 15000, 6000 and 4500 ohm at 35, 50, and 65% rotation, third section 12500, 25000 and 37500 ohm at 35, 50 and 65% rotation, terminal data: first section 2 terminals, second section 2 terminals, third section 3 terminals, solder lug type; case data: metal case, enclosed, dim including all sections: 1-7/8 in. lg by 1-9/64 in. dia, shaft data: metal, round, 1/2 in. dia, 5/8 in. lg from mounting surface, normal torque, contact arm data: insulated, no "off" position; mounting data: bushing mounted, 3/8 in. dia, 32 threads per inch, 5/16 in. lg, non-turn device located on 17/32 in. radius at 3 o'clock, waterproof	volume control		N16-R-89385-1972 (3Z7450-132)	CTS 3-35 (WS)	RP-1000	R-304

X	X	S-301	SWITCH, TOGGLE: single-pole, single-throw; electrical data: 15 amp, 115 v AC; molded bakelite body; over-all dim, excluding terminals, barriers, bushings and handle: 1-3/16 in. lg, 5/8 in. wide, 5/8 in. high; actuating handle data: bat type, 5/8 in. lg excluding lgth of bushing; locking action: terminal data: 2 terminals, solder lug type, located on bottom; mounting data; single hole mounting type: 15/32 in. dia bushing, 32 threads per inch, 1/2 in. lg from mounting surface (same as S-101)	trans-rec "on-off" switch for MRC-5C transmitter "on-off" switch for MRC-6C	ST-42A	N17-S-70412-4406 (3Z9863-42A)	CAE 8803-K6	KS-1000	S-301 S-302 S-303
X	X	S-302	same as S-301	not used w/MRC-5C receiver "on-off" switch for MRC-6C					
X	X	S-303	same as S-301	speaker "on-off" switch					
X	X	TB-301	TERMINAL BOARD: laminated nylon: w/o terminals, accommodates 2 terminals; w/o barriers; over-all dim: 2-3/8 in. lg; 1-1/4 in. wide, 3/8 in. thick; five 8-32 threaded mounting holes 9/32 in. deep, 4 holes on 2 in. by 7/8 in. mounting centers, 1 hole in. center of board (same as TB-102)	for connecting remote radio set control C-1226/MRC to control radio set C-1217/MRC				KT-1038	TB-301 TB-102
X	X	TB-302	TERMINAL BOARD: phenolic board; terminal data: includes terminals, 14 terminals, solder lug type, w/o barriers; over-all dim: 4.031 in. lg by 1-7/8 in. wide by 1/8 in. thick, two 3/16 in. dia mounting holes spaced 3.703 in. c to c	for headset and mirco-phone jack connections		N17-B-78035-9618 (3Z770-14.38)		KT-1004 MC-23672	TB-302
X	X	TB-303	TERMINAL BOARD: moulded phenolic board; terminal data: includes terminals, 14 terminals, threaded stud type; w/o barriers; over-all dim: 4 in. lg by 1-7/16 in.	for control box cable connections		N17-B-78035-9515 (3Z770-14.30)		KT-1029 MC-7316	TB-303

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AMRC 5	NMRC 6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIG-NATION	CON-TRACTOR DRAWING and PART NO.	ALL SYM-BOL DESIG. INVOL.
X	X	TB-303	wide by 1/4 in. thick; mounting data: two 3/16 in. dia mounting holes spaced 3-3/8 in. c to c						
X	X	T-301	TRANSFORMER, AUDIO FREQUENCY: line type; impedance data: primary 1500 ohm CT, secondary 100 ohm, tapped at 15 ohm; case data: upright case, aluminum case; over-all dim: 2-3/4 in. lg by 1-3/4 in. wide by 1-3/4 in. thick, 3 w operating level, 3.94 to 1 ratio of turns, primary to secondary; frequency data: ± 3 db from 300 to 4000 cps, not tuned; terminal data: 6 terminals, located on bottom, no internal shielding	output trans-former		N17-T-62550-3548 (2Z9637.82)	CLX 16104	TD-1000 MC-7352	T-301
X	X	W-301	CABLE ASSEMBLY, POWER, ELECTRICAL: cable data; type identification: Navy, type no. MHFA-7, conductor details: 7 conductors, stranded, 2828 cir mils, 16 AWG synthetic resin insulated; aluminum braid; data on shields: around all conductors, aluminum braid, shield not covered; 77-3/8 in. lg over-all; termination data; terminal fittings on first end: 7, Thomas and Betts Co., lug type terminal, catalog no. B-5, 1, Waterproof Electric Co., clamp, part no. MY-1034; terminal fittings on second end: 7, Thomas and Betts Co., lug type terminal, catalog no. B-76, 1, Waterproof Electric Co., clamp, part no. MY-1034; conductor stranding: 7 strands, 0.020 in. dia each strand, 600 v working	connects control box to TB-101		N17-C-48383-6905		KW-1029	W-301

X	X	W-302	WIRING HARNESS: main body conductor data: 10 conductors, no. 18 AWG, copper, stranded; synthetic resin insulation each conductor: 1000 v rms per conductor; over-all length: 8-1/4 in. lg main body; two 5/16 in. wide sleeves bind conductors together; termination data: 10 terminals, located on one end, Thomas and Betts Co., stakon terminal lug, part no. A-77; other end conductors stripped 1/4 in. color coded; terminal board jumper	connections from TB-302 to J-301, J-302, J-303, J-304		N17-W-300405-251		KW-1032	W-302
X	X	W-303	WIRING HARNESS: main body conductor data: 10 conductors, no. 18 AWG, copper, stranded; synthetic resin insulation each conductor; 1000 v rms per conductor; over-all length: 19-1/2 in. lg main body; three 5/16 in. wide sleeves bind conductors together; termination data: 8 terminals, located on one end, Thomas and Betts Co., stakon terminal lugs, part no. A-77; other end conductors stripped 1/4 in. color coded	connections from TB-302 to TB-303		N17-W-300412-535		KW-1033	W-303
X	X	Z-301	CONTROL SUBASSEMBLY, RADIO SET: control box; c/o one cover Waterproof Electric part no. 45201, two capacitors Waterproof Electric part no. CP-1000, one relay Waterproof Electric part no. PR-1008, and one transformer Waterproof Electric part no. TD-1000; 7-15/16 in. lg by 7-7/8 in. wide by 5 in. high o/a; fourteen mounting holes 11/64 in. dia, 4 holes 2 in. c to c, 3 holes 2-1/4 in. c to c, 4 holes 1-3/4 in. c to c, 3 holes spaced 2 in. c to c and 1-15/16 in. c to c	control, radio set sub-assembly		N16-C-90237-9001		45200	Z-301

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AN/MRC-5	AN/MRC-6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIGNATION	CONTRACTOR DRAWING and PART NO.	ALL SYMBOL DESIG. INVOL.
				ANTENNA ASSEMBLY					
X	X	A-401	MOUNTING: steel; painted Marine Corps Green; mounting data; 2 in. dia mounting hole in center, two 7/16 in. dia mounting holes 1-1/8 in. from ends of mounting			N16-B-750001-364 (2Z1244-84)		AC-1004 MC-23673	A-401
	X	A-402	MAST BASE		MP-65			GFM	A-402
X		A-403	MAST BASE		AB-15/GR			GFM	A-403
	X	A-404	MAST SECTIONS		MS-116			GFM	A-404 A-405 A-406
	X	A-405	same as A-404						
	X	A-406	same as A-404						
X	X	A-407	MAST SECTIONS		MS-117			GFM	A-407
X	X	A-408	MAST SECTIONS		MS-118			GFM	A-408
X		A-409	MAST SECTIONS		MS-116			GFM	A-409
				ACCESSORIES					
X		E-501	ANTENNA (dummy)		A-83			GFM	E-501
X	X	HT-501	HEAD SET		49507			GFM	HT-501

X	X	J-501	CONTROL, RADIO SET: for distant remote control operation of radio set; uses Sig Corps field wire type WD-1/TT; aluminum case, Marine Corps Green finish, w/cover; rectangular 4-11/16 in. lg by 3-3/16 in. wide by 1-9/16 in. thick o/a; 1 jack, Waterproof Electric part no. 42150, 1 jack, Waterproof Electric part no. 42151, two binding posts, Waterproof Electric part no. KT-1036A; 1 capacitor, Waterproof Electric part no. CP-1001, 1 on terminal board, Cinch part no. 1513; waterproof, potted	for distant remote control operation of radio set	C-1226/MRC			42000	J-501
X	X	O-501	COVER: includes 3 washers, diaphragm, ring, cap and spring, hard rubber, 1-1/2 in. lg by 1 in. wide by 7/8 in. high o/a, one 3/8 in. dia mounting hole on bottom (same as O-305)	head set waterproof jack cover					
X	X	O-502	same as O-501	microphone waterproof jack cover					
X	X	MI-501	MICROPHONE		511004C			GFM	MI-501
X	X	W-501	HEAD SET CORD		49534			GFM	W-501
X	X		ROLL (antenna)		BG-56			GFM	
X			TECHNICAL MANUAL		TM-11-620			GFM	
	X		KEY, TELEGRAPH		26018			GFM	
	X		INSTRUCTION BOOK		TCS series			GFM	
X	X		CASE, CARRYING: 9-3/4 in. lg by 4-7/8 in. deep by 6-1/2 in. high, mounts by 3 dot fasteners, olive drab duck, specification CCC-D-771b	case for radio set control C-1226/MRC			Hoegee	44050	

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AMRC 5	NMRC 6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIG-NATION	CON-TRACTOR DRAWING and PART NO.	ALL SYM-BOL DESIG. INVOL.
			MODIFICATION FOR MOUNTING RADIO FT-237						
X		K-601	RELAY ARMATURE: contact data: contact arrangement 1A, MBCA ref dwg group 4, normally open, single break, DC-AC, 115 v AC; coil data: 1 winding, 1 inductive winding, DC, 24 v operating voltage; terminal data: 2 terminals on contacts, 2 terminals on coils; over-all dim: 3 in. lg, 2 in. wide, 1-1/2 in. high; two 5/32 in. dia mounting holes 1-1/2 in. c to c; heavy duty	power relay		N17-R-64848-4201	CATM 951C	PR-1007	K-601
X		W-601	LEAD, electrical: one 14070 cir mil area stranded copper conductor; 1000 v working; synthetic vinylite insulation; 2 in. lg excluding terminations; Thomas and Betts Co., part no. D-26 one each end	relay jumper lead		N17-L-62616-3651 (3E7998-2.6)		KW-1021 MC-7339	W-601
X		W-602	LEAD, electrical: one no. 18 AWG stranded copper conductor; 19 no. 30 AWG strands; 600 v working; insulation in accordance w/MIL-W-5086; 6 in. lg excluding terminations, one Thomas and Betts Co. stakon terminal lug part no. A-84 on one end, one Thomas and Betts Co. stakon terminal lug part no. B-14-6F other end	relay jumper lead		N17-L-62651-2021 (3E7998-6.6)		KW-1022 MC-7338	W-602
X		W-603	LEAD, electrical: one no. 18 AWG stranded copper conductor, 19 no. 30 AWG strands; 600 v working, insulation in accordance w/MIL-W-5086; 2-1/2 in. lg excluding terminations, two Thomas and Betts Co., stakon terminal lugs part no. A-86 on each end	relay jumper lead		N17-L-62621-1017 (3E7998-2.5)		KW-1024 MC-7340	W-603

CASE (SPARE PARTS) CY-732/MRC

X	X		CASE: aluminum; painted Marine Corps Green; 30 in. lg by 9-7/8 in. high by 16-1/2 in. deep o/a; waterproof	for spare parts	CY-732/ MRC	(2Z1891-732)		WE100J102	
X	X	A-701	CASE: aluminum, painted Marine Corps Green; 30 in lg by 9-7/8 in. high by 15 in. deep o/a; interior bare; w/o cover; p/o Army-Navy Case CY-732/MRC	case w/o cover				AC-1003	A-701
X	X	A-702	COVER: aluminum; painted Marine Corps Green; rectangular; 23-7/16 in. lg by 7-7/16 in. wide by 2-3/4 in. thick o/a, mounts w/6 cover clamps one on each end and 4 on 8-7/8 in. by 4-11/32 in. mounting centers; w/gasket	spare parts case cover		N16-C-650001-331 (2Z3351-187)		AC-1010 MC-23688	A-702
X	X	H-701	BOLT, MACHINE: stainless steel; spec data: military spec, spec no. MIL-S-854 (ships); finished; head data; Allen head, hex drive, 9/16 in. dia by 0.375 in. thick; thread data: 3/8-16, NCT class 2 fit, 1.344 in. lg; drilled for cotter pin; 2.625 in. nominal lgth (same as H-131)	bolt for O-702			Quality Socket Screw FS-1002B	FS-1002B	H-131 H-701
X	X	H-702	WASHER, FLAT: type data: round; stainless steel; spec data; military spec, spec no. MIL-S-854; dim: center hole 0.375 in. dia, 0.556 in. outside dia, 0.020 in. nominal material thickness, 0.373 in. dia nominal bolt size (same as H-132)	washer for O-702		N43-W-7600-125 (6L-58026-34)	California Gasket FW-1013	FW-1013	H-702 H-132
X	X	H-703	WASHER, FLAT: type data: round; neoprene; spec data: military spec, spec no. MIL-R-15624 class 1; dim: center hole 3/8 in. dia, outside 9/16 in. dia, 3/32 in. nominal material thickness for 0.373 in. dia bolt (same as H-133)	seal for O-702		N16-W-180001-153 (2Z4867-563)	Stillman NR-1030	NR-1030	H-703 H-133

TABLE 8-2. TABLE OF REPLACEABLE PARTS

PARTS									
AN/MRC-5	AN/MRC-6	SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	A/N and NAVY TYPE NO.	STANDARD NAVY and (SIGNAL CORPS) STOCK NO.	MFGR. and MFGR.'S DESIGNATION	CONTRACTOR DRAWING and PART NO.	ALL SYMBOL DESIG. INVOLV.
X	X	I-701	INDICATOR, MOISTURE: 1-1/16 in. OD by 1-1/8 in. lg; mounts by 3/4 in. American Standard Pipe thread; for general purpose use; silica gel crystals in a clear plastic container; moisture in equipment indicated when crystals turn pink (same as I-103)	indicates the presence of moisture in case			CBCO 1185	P-1000	I-701 I-103
X	X	O-701	GASKET: neoprene; one hole; rectangular 22-3/4 in. lg by 6-3/4 in. wide by 5/8 in. thick, 21-3/4 in. by 5-3/4 in. opening in center	gasket for spare parts case cover		N17-G-159501-601 (2Z4867.558)	Stillman NR-1016	NR-1016 MC-7362	O-701
X	X	O-702	CLAMP, COVER: stainless steel; cadmium plated; fastening devise data; 1 bolt type; over-all dim: 2.625 in. lg, 1-13/32 in. wide, 1 in. thick; mounts in 0.375 in. dia hole (same as O-119)	for securing spare parts case cover		N16-C-304295-101 (2Z2642.166)		FA-1000 MC-7358	O-702 O-119
X	X	O-703	SPRING: helical compression type; 0.080 in. dia stainless steel wire, 1.375 in. lg by 0.562 in. dia o/a, 10-1/2 turns; flat ground ends (same as O-120)	spring for O-402		N17-S-46669-4691 (2Z8877.292)	California Spring MW-1012	MW-1012 MC-7389	O-703 O-120
X	X	O-704	BRACKET: "L" shape; stainless steel; 1-13/32 in. lg by 31/32 in. high by 1 in. wide o/a, one 3/8-16 NC-2 threaded mounting hole in bottom 7/32 in. from one end (same as O-121)	locking angle for O-402				MX-1000 MZ-1000	O-704 O-121
X	X	O-705	HOLDER, WRENCH: monel or SS; spring mounted; one mounting loop formed on each end of spring 2-1/2 in. lg by 0.412 in. dia (same as O-104)	wrench holder			Seaboard MW-1013	MW-1013	O-705 O-104

X	X		WRENCH: allen wrench; 5/16 in. across flats of hex; 4 in. lg by 1-5/8 in. wide by 3/8 in. thick; 90 degree off-set from handle; straight hex handle; for 5/16 in. hex head	for opening and securing spare parts case cover			Standard JL	ZT-1011	

TABLE 8-3. CROSS REFERENCE PARTS LIST

NAVY TYPE	KEY SYMBOL
49894	P-102
49897	P-106
49900	P-104
SIGNAL CORPS TYPE	**KEY SYMBOL**
TM-195 modified	E-103
ST-42A	S-101
STANDARD NAVY STOCK NO.	**KEY SYMBOL**
N16-B-750001-343	O-121
N16-B-750001-359	A-110
N16-B-750001-361	A-106
N16-B-750001-364	A-401
N16-C-10607-7751	A-301
N16-C-10676-8876	A-101
N16-C-10677-1170	Cabinet
N16-C-11634-4891	W-115
N16-C-146505-201	O-123
N16-C-170001-284	Case
N16-C-304295-101	O-119
N16-C-49197-3870	C-301
N16-C-600001-418	H-134
N16-C-650001-331	A-702
N16-C-650001-855	A-102
N16-C-650001-856	A-302
N16-C-89790-3926	Control
N16-C-90237-9001	Z-301
N16-F-950001-146	A-103
N16-M-77589-7000	A-116
N16-M-78949-9541	A-117
N16-P-403502-178	N-301
N16-P-404281-105	O-124
N16-P-404281-106	O-126
N16-R-49823-781	R-301
N16-R-89385-1972	R-303
N16-S-692001-134	O-127
N16-W-180001-153	H-133
N16-W-180001-158	H-123
N17-B-700001-104	O-309

STANDARD NAVY STOCK NO.	KEY SYMBOL
N17-S-46669-4696	O-120
N17-S-70412-4406	S-301
N17-T-62550-3548	T-301
N17-W-300030-501	W-105
N17-W-300080-669	W-117
N17-W-300253-601	W-106
N17-W-300405-251	W-302
N17-W-300412-535	W-303
G41-W-02455-2	Wrench
N43-B-14667-69	H-145
N43-N-4395-1750	H-119
N43-S-4379-845	H-131
N43-W-248-4298	H-139
N43-W-248-5210	H-141
N43-W-248-5235	H-143
N43-W-7600-125	H-132
N43-W-7605-0040	H-115
SIGNAL CORPS STOCK NO.	**KEY SYMBOL**
2Z1244-71	O-121
2Z1244-80	A-106
2Z1244-83	A-110
2Z1244-84	A-401
2Z1891-732	Case
2Z2642.166	O-119
2Z3029-2	J-101
2Z3070-19	P-106
2Z3073-20	P-104
2Z3077-11	P-102
2Z3351-174	O-309
2Z3351-175	O-305
2Z3351-187	A-702
2Z4867.558	O-701
2Z4867.560	O-129
2Z4867-561	O-133
2Z4867.562	O-131
2Z4867-563	H-133
2Z5598-24	J-303
2Z5598-26	J-301
2Z5883.329	X-101
2Z7091-277	O-122
2Z7259-80	H-134

N17-B-77410-5709	TB-102
N17-B-78035-9515	TB-303
N17-B-78035-9618	TB-302
N17-B-78139-6696	TB-101
N17-B-88895-6094	E-301
N17-B-88896-7781	E-102
N17-B-88898-1751	E-101
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N17-C-48215-9057	W-116
N17-C-48381-4376	W-112
N17-C-48382-5601	R-303
N17-C-48383-6905	W-301
N17-C-48574-9001	W-114
N17-C-48744-1001	W-102
N17-C-48841-8521	W-104
N17-C-70869-7468	P-106
N17-C-70876-4301	P-104
N17-C-70886-4959	P-102
N17-C-71465-2180	P-101
N17-C-73554-3354	J-101
N17-C-783001-101	O-136
N17-C-965001-409	H-101
N17-G-154592-331	O-128
N17-G-155339-389	O-312
N17-G-157006-500	O-301
N17-G-159501-601	O-701
N17-G-160030-889	O-101
N17-G-161016-736	H-137
N17-G-161342-101	O-129
N17-G-161400-191	O-125
N17-J-39248-8993	J-301
N17-J-39473-3301	J-303
N17-L-51709-4532	X-101
N17-L-62616-3651	W-601
N17-L-62621-1017	W-603
N17-L-62644-1001	W-111
N17-L-62651-2021	W-602
N17-L-62656-5001	W-110
N17-L-62685-8014	W-113
N17-L-62718-5518	W-107
N17-L-62735-1001	W-108
N17-L-6697-20	I-101
N17-L-91272-8691	LS-301
N17-L-62876-5001	W-109
N17-P-125001-295	O-123
N17-P-125001-296	O-131
N17-P-61046-8496	O-135
N17-P-69141-1575	E-103
N17-R-64848-4201	E-601
N17-R-64848-5279	K-301

2Z8877.292	O-120
2Z9052-101	E-102
2Z9052-102	E-101
2Z9052-103	E-301
2Z9637.82	T-301
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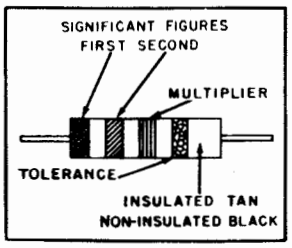
3E7998-2.6	W-601
3E7998-3.3	W-113
3E7998-5.4	W-111
3E7998-6.6	W-602
3E7998-14.2	W-107
3E7998-43	W-109
3Z7450-132	R-303
3Z770-14.30	TB-303
3Z770-14.38	TB-302
3Z770-20.4	TB-101
3Z9863-42A	S-101
6L3327-20-38	H-119
6L58023-37	H-123
6L58026-34	H-132
6L58027-12	H-115
6R55075-6	Wrench
6Z1932-33	O-136

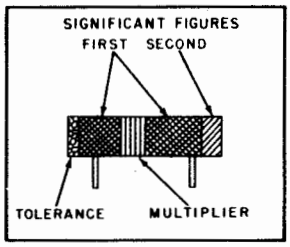
TABLE 8-4. APPLICABLE COLOR CODES AND MISCELLANEOUS DATA

RESISTOR COLOR CODES

RMA COLOR CODE FOR FIXED COMPOSITION RESISTORS

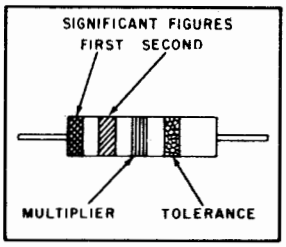


AXIAL TYPE

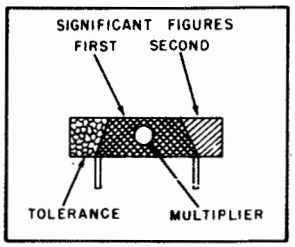


RADIAL TYPE

JAN COLOR CODE FOR FIXED COMPOSITION RESISTORS



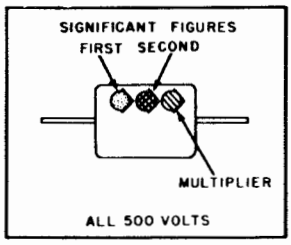
AXIAL TYPE INSULATED



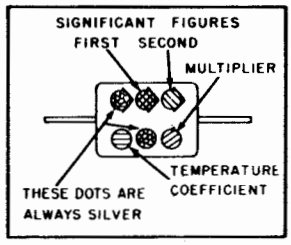
RADIAL TYPE NON-INSULATED

CAPACITOR COLOR CODES

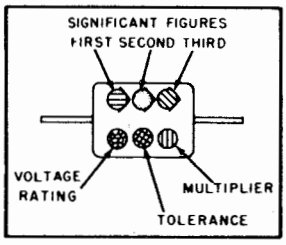
RMA 3-DOT COLOR CODE FOR MICA-DIELECTRIC CAPACITORS



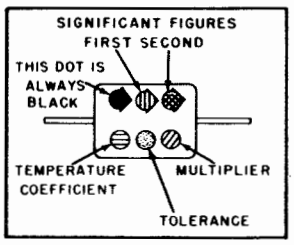
JAN 6-DOT COLOR CODE FOR PAPER DIELECTRIC CAPACITORS



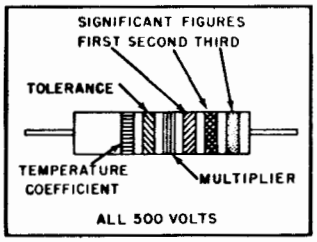
RMA 6-DOT COLOR CODE FOR MICA-DIELECTRIC CAPACITORS



JAN 6-DOT COLOR CODE FOR MICA-DIELECTRIC CAPACITORS

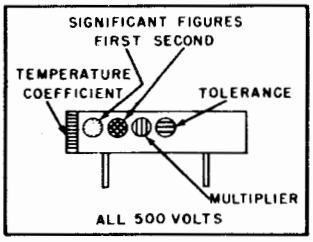


RMA COLOR CODE FOR TUBULAR CERAMIC-DIELECTRIC CAPACITORS

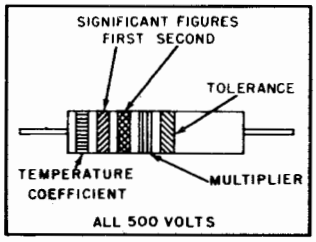


AXIAL TYPE

JAN COLOR CODE FOR TUBULAR CERAMIC CAPACITORS



AXIAL TYPE INSULATED



RADIAL TYPE NON-INSULATED

COLOR	*SIGNIFICANT FIGURE*	*MULTIPLIER*	*PERCENT TOLERANCE*	*VOLTAGE RATING*	*TEMPERATURE COEFFICIENT*
BLACK	0	1			A
BROWN	1	10		100	B
RED	2	100		200	C
ORANGE	3	1,000		300	D
YELLOW	4	10,000		400	E
GREEN	5	100,000		500	F
BLUE	6	1,000,000		600	G
VIOLET	7			700	
GRAY	8	0.1*		800	
WHITE	9	0.01*		900	
GOLD	0.1	0.1	5	1000	
SILVER	0.01	0.01	10	2000	
NO COLOR			20	500	

* *JAN TUBULAR CERAMIC CAPACITORS ONLY*
NOTE: JAN, JOINT ARMY-NAVY; RMA, RADIO MANUFACTURERS ASSOCIATION

TABLE 8-5. LIST OF MANUFACTURERS

ABBREVIATIONS	PREFIX	NAME	ADDRESS
CATM	CATM	Advance Electric Company	1260 W. Second St., Los Angeles, Calif.
CLX	CLX	Altec Lansing Corporation	1680 N. Vine St., Hollywood 28, Calif.
Bendix	------	Bendix Aviation Corporation	Sidney, New York
California Gasket	------	California Gasket and Washer Company	1425 DeLong St., Los Angeles, Calif.
California Spring	------	California Spring Company	1746 S. Los Angeles, Los Angeles, Calif.
CED	CED	Cannon Electric Development Company	3291 Humbolt St., Los Angeles, Calif.
CBCO	CBCO	Chandler Evans Corp.	South Meriden, Conn.
CTS	CTS	Chicago Telephone Supply	Elkhart, Indiana
CD	------	Cornell-Dubilier Electric Corporation	S. Plainfield, New Jersey
CASO	CASO	Culver-Stearns Manufacturing Company	Worcester, Mass.
CAE	CAE	Cutler-Hammer Inc.	1333 W. St. Paul Ave., Milwaukee, Wis.
Ketchum	------	G. M. Ketchum Mfg. Corp.	York and Washington St., Brooklyn, N.Y.
CG	CG	General Electric Company	Schenectady 5, New York
Hoegee	------	Hoegee and Sons	Los Angeles, Calif.
Eby	------	Hugh H. Eby Inc.	Philadelphia, Pa.
IRC	------	International Resistance Company	Philadelphia, Pa.
Quality Socket Screw	------	Quality Socket Screw Products	Los Angeles, Calif.
Seaboard	------	Seaboard Coil Spring Corp.	435 E. Washington Blvd., Los Angeles, Cal.
Standard	------	Standard Pressed Steel Company	Jenkintown, Pa.
Stillman	------	Stillman Rubber Company	5805 Marilyn Ave., Culver City, Calif.
CUL	CUL	University Loudspeakers Inc.	White Plains, New York
CBGR	CBGR	Waterproof Electric Company	801 S. Main St., Burbank, Calif.
GFM	GFM	Government Furnished Material	

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