INSTALLATION OF RADIO SET AN/GRC-106 IN CARRIER, COMMAND POST M577

Headquarters, Department of the Army, Washington, D.C. 29 April 1966

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CHAPTER 1

INTRODUCTION

1-1. Scope

This manual provides instructions for mounting the installation unit (FSN 5820-082-3918) that permits mounting Radio Set Set AN/GRC-106 in Carrier, Command Post M577.

1-2. Index of Publications

Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to this equipment. DA Pam 310-4 is a current index of technical manuals, technical bulletins, supply manuals, (types 7, 8, and 9), sup ply bulletins, lubrication orders, and modification work orders available through publications supply channels. The index lists the individual parts (-10, -20, -35P etc) and the latest changes to and revisions of each publication.

1-3. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. Use equipment forms and records in accordance with instructions in TM 38-750.

b. Report of Damaged or Improper Shipment. Fill out and forward DD Form 6 (Report of Damaged or Improper Shipment) as prescribed in AR 700-58 (Army), NAVSAN-DA Publication 378 (Navy), and AFR 71-4 (Air Force).

c. Reporting of Equipment Manual Improvements. The direct reporting by the individual user, of errors, omissions, and recommendations for improving this manual is authorized and encouraged. DA Form 2028 (Recommended Changes to DA Publications) will be used for reporting these improvements. This form may be completed by using pencil, pen, or typewriter, and forwarded direct to: Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-MR-(NMP)-MA, Fort Monmouth, N.J. 07703.

CHAPTER 2

INSTALLATION

Section I. SERVICE UPON RECEIPT OF SHIPMENT

2-1. Unpacking

Move the packing boxes close to the location where the installation is to take place and unpack the parts of the installation unit. Be careful not to lose any of the parts.

2-2. Checking Unpacked Equipment

a. inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on DD Form 6 (para 1-3.

h. See that the equipment is complete as listed in the packing slip. If a packing slip is not available, the completeness of the installation unit can be determined by comparing the parts received with the items listed on the in-

stallation drawing (fig. 2-4). Report all discrepancies in accordance with TM 38-750. Shortage of a minor assembly or part that does not affect proper installation or functioning of the equipment should not prevent the equipment from being installed.

c. When vehicles with radio sets are to be turned in or transferred, communication equipment will be removed and reinstalled in new replacement vehicles. Additional items which are required to complete installations should be requisitioned as individual items. To determine the Federal stock number of authorized items in the installation unit, refer to SB 11-131.

Section II. EQUIPMENT INSTALLATION

2-3. Tools Required for Installation

The tools required for installation of Radio Set AN/GRC-106 are a part of Tool Kits, Radar and Radio Repairman TK-87 () /U, and Supplementary, Radar and Radio Repair, TK-88()\U. The following additional items are needed:

a. 1 Electric drill (3/8 inch).

b. 1 Set of drill bits (1/16 inch to 3/8 inch).

2-4. Installation Instructions

a. To accomplish the installation, follow the instructions shown on figures 2–1 through 2-4.

b. The following additional information is provided:

- (1) The positive terminal of the 24-volt vehicle battery is marked with a plus
 (+) and is larger in diameter than the negative terminal.
- (2) To drill the correct size holes for the sheet metal screws which hold the plastic cable clamps, select a drill bit that is slightly smaller in diameter than the screw.
- (3) When the installation is completed, check the tightness of all bolts and screws.

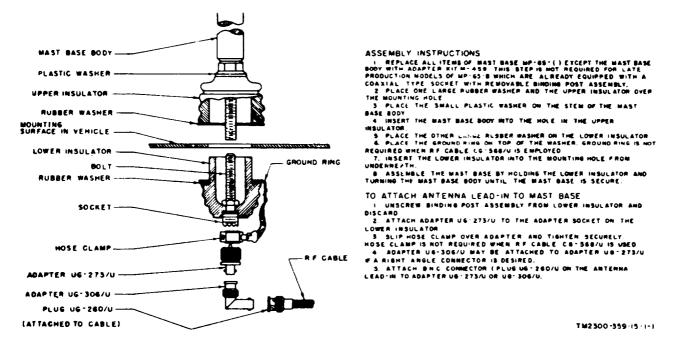


Figure 2-1. Assembly instructions for Mast Base MP-65() (for antenna cable connector using BNC connectors).

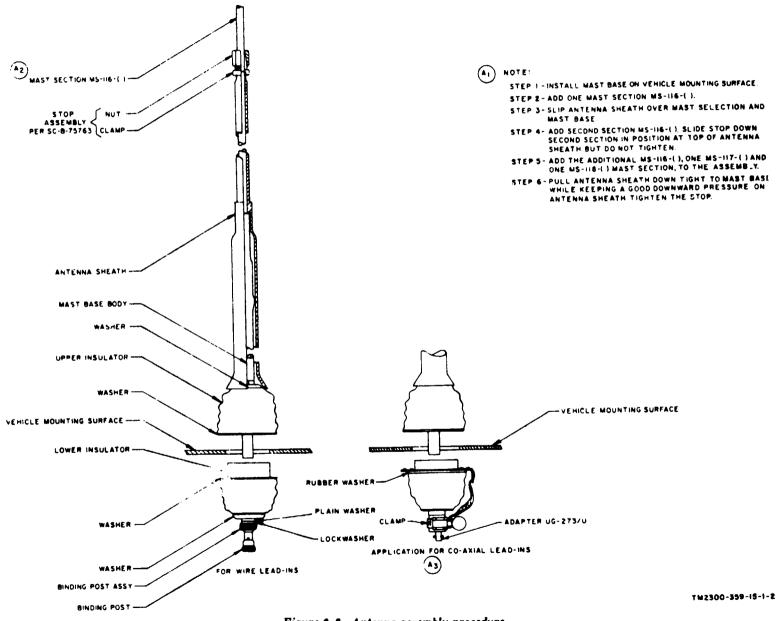


Figure 2-2. Antenna assembly procedure.



- I PREPARE CABLE PER SC-D-28209.
- 2. PREPARE CABLE PER SC-A- 9183
- 3 USE LUBRICANT "PETROLATUM, WHITE PRAMEL" PER FEDERAL SPEC. VV-8-236 OR EQUAL IN CASE OF TIGHT FIT.
- IMPORTANT CAUTION SHOULD BE EXERCISED IN TIGHTENING THE COUPLING NUT OF THE ACCESSORY ASSEMBLY TO THE PLUG ASSEMBLY. ANCHOR CABLE AND PLUG ASSEMBLY IN A STATIC POSITION AND ROTATE THE GLAND COUPLING NUT BY HAND CLOCKWISE TO TIGHTEN GROMMET SNUGLY AGAINST THE CABLE, WITHOUT EXCESSIVE FORCE.

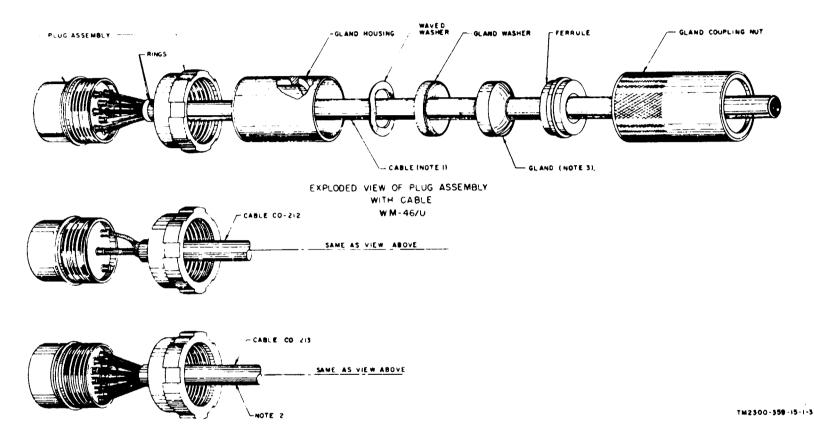


Figure 2-3. Assembly of waterproof vehicle terminal box plugs.

APPENDIX

REFERENCES

DA Pam 310-4	Index of Technical Manuals, technical Bulletins, Supply Manuals (types
	7, 8, and 9), Supply Bulletins, Lubrication Orders, and Modification Work Orders.
SB 11-131	Vehicular Radio Sets and Authorized Installations.
SB 38-100	Preservation, Packaging, and Packing Materials, Supplies, and Equipment Used by the Army.
TB SIG 364	Field Instructions for Painting and Preserving Electronic Command Equipment.
TM 11-5820-520-12	Operator and Organizational Maintenance Manual Radio Set AN/GRC- 106.
TM 38-750	Army Equipment Record Procedures.

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NO. None.

USAR: None.

For explanation of abbreviations used see AR 320-50.

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336th Sig Det (10)

363d Sig Det (10)

364th Sig Det (10)

365th Sig Dep (10)

369th Sig Det (10)

Depots (2) except

TOAD (25)

SAAD (25)

LBAD (25)

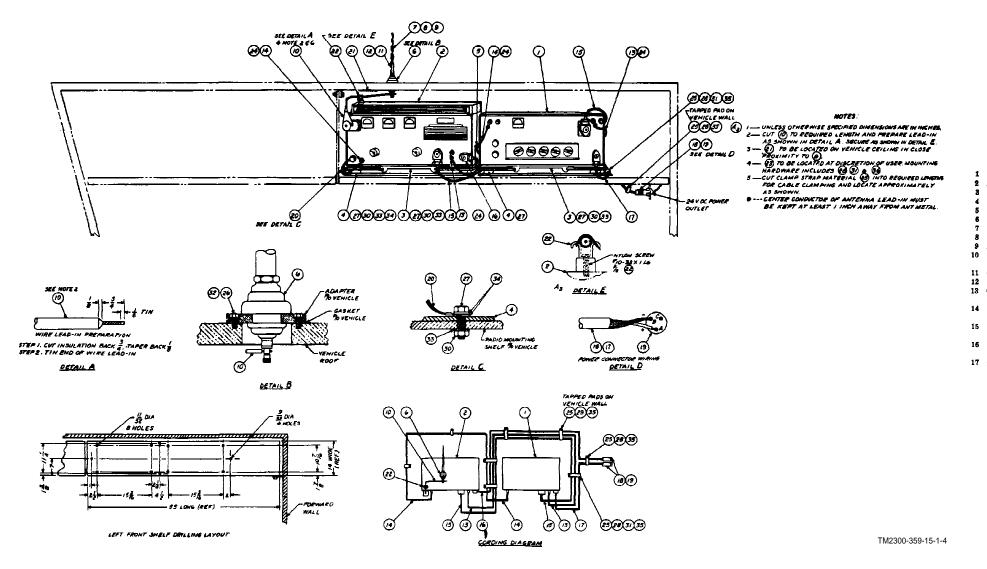
LEAD (7)

UŠAELL (3)

Sig FLDMS (1)

USASPTCP (11)

HAROLD K. JOHNSON, General, United States Army, Chief of Staff.



1 Receiver-Transmitter, Radio RT-662()/GRC 2 Amplifier, R.F., AM-3349 ()/GRC-106 8 Mounting MT-3140/GRC (2) 4 Shock Mount Assy (4) 5 Cross Bar (Short) (4) 6 Mast Base AB-652/GR 7 Mast Section MS-116A (3) 8 Mast Section MS-117A 9 Mast Section MS-118A 10 Lead, Electrical CX-10171/U (4 Ft -- 0 In. Lg) (See Notes 2 and 6) 11 Cover, Antenna No. CF - 457B 12 Clamp, Antenna Sheath 13 Cable Assy, R.F., CG-409G/U (5 Ft --0 In. Lg.) 14 Cable Assy, R.F., CG-409G/U (5 Ft - 0 In. Lg.) 15 Cable Assy S.P. Electrical CX-11016()/G (6 Ft - 6 In. Lg.) 16 Cable Assy S.P. Electrical CX-10071/U (5 Ft - 6 In. Lg.) 17 Cable Assy S.P. Electrical CX-10071/U (3 Ft - 6 In. Lg.)

- 18 Accessory Assy (2)
- 19 Plug Assy (2)
- 20 Bonding Jumper Group 4 (10 In. Lg.)
- 21 Label (See Note 3)
- 22 Lead-in Support Kit (AN/GRC-106) (See detail E)
- 23 Loudspeaker, Dynamic LS-166/U (See Note 4)
- 24 Adapter UG-306/U (4)
- 25 Cable Support Kit PPL No. 1469 (See Note 5) (2)
- 26 Hex Hd Cap Scr 3/8 16 x 1 1/4 Lg (4)
- 27 Hex Hd Cap Scr 5/16 24 x 1 Lg (16)
- 28 Hex Hd Cap Scr 1/4 20 x 3/4 Lg (7)
- 29 Hex Hd Cap Ser 1/4 20 x 1/2 Lg (3)
- 30 Hex Nut, Plain 5/16 24 (8)
- 31 Hex Nut, Plain 1/4 20 (4)
- 32 Lock Washer, Split 3/8 (4)
- 33 Lock Washer 5/16 TET (8)
- 34 Lock Washer 5/16 I.T. (9)
- 35 Lock Washer 1/4 I. T. (8)
- 36 Lock Washer 1/4 IET (2)

Figure 2-4. Installation of Radio Set AN/GRC-106 in Carrier, Cargo, Command Post M577.

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