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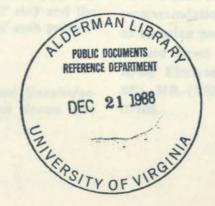
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DEPARTMENT OF THE ARMY TECHNICAL MANUAL

INSTALLATION OF RADIO SET AN/GRC-106 IN TRUCK, 1/4-TON, 4 BY 4, M151

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 5820-082-3475) that permits mounting Radio Set AN/-GRC-106 in Truck, 1/4-ton, 4 by 4, M151.

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), supply 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), NAVSANDA 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 improvement recommendations. This form will 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 EQUIPMENT

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).
- b. 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 installation 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

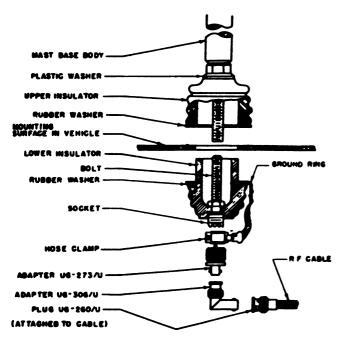
The tools required for installation of Radio Set AN/GRC-106 are a part of Tool Kits, Radar and Radio Repairman TK-87()/U, and Supplementary, Radar and Radio Repair, TK-88()/U. The following additional items are needed:

- 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:
 - 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.



ASSEMBLY INSTRUCTIONS

L REPLACE ALL TRENS OF MAST BASE MP-65-() EXCEPT THE MAST BASE BOOV WITH ADAPTER RIT M-450 THIS STEP IS MOT REGURGE FOR LATE PRODUCTION MODELS OF MP-65-0 WHICH MAST ALREADY COMPPER WITH A COARIAL TYPE SOCRET WITH REMOVABLE BHIDHING POST ASSEMBLY. 2. PLACE GRE LABGE RUDGER WASHER AND THE UPPER HISULATOR OVER THE BOURTING HOLE.

THE BOUNTING HOLE.

3. PLACE THE SMALL PLASTIC VASHER ON THE STEM OF THE MAST BASE BODY.

4. HISERT THE MAST BASE BODY MTG THE HOLE IN THE UPPER HISULATOR.

5. PLACE THE GYING LARGE RUSDER WASHER ON THE LOWER HISULATOR.

6. PLACE THE GROUND RIMG ON TOP OF THE WASHER, GROUND RING IS MOT REQUIRED WHERE R.F. CADLE CG-SAGAN IS EMPLOYED.

7. HISERT THE LOWER HISULATOR MTG THE MOUNTING HOLE FROM UNDERNEATH.

UNDERNEATH. 8 ASSEMBLE THE MAST BASE OF HOLDING THE LOWER INSULATOR AND TURNING THE MAST BASE GOOF UNTIL THE MAST BASE IS SECURE.

TO ATTACH ANTENNA LEAD-IN TO MAST BASE
I UNSCREW BINGING POST ASSEMBLY FROM LOWER INSULATOR AND
DISCARD.

2. ATTACH ADAPTER US-273/U TO THE ADAPTER SOCKET ON THE LOWER INSULATOR.

LOWER INSULATON.

3. SLIP MOSE CLAMP OVER ASAPTER AND TIGHTEN SECURELY.

MOSE CLAMP IS NOT REQUIRED WIREN BY CABLE CO-SOS/U IS USED

4. ASAPTER US-SOS/U MAY DE ATTACMED TO ADAPTER US-273/U

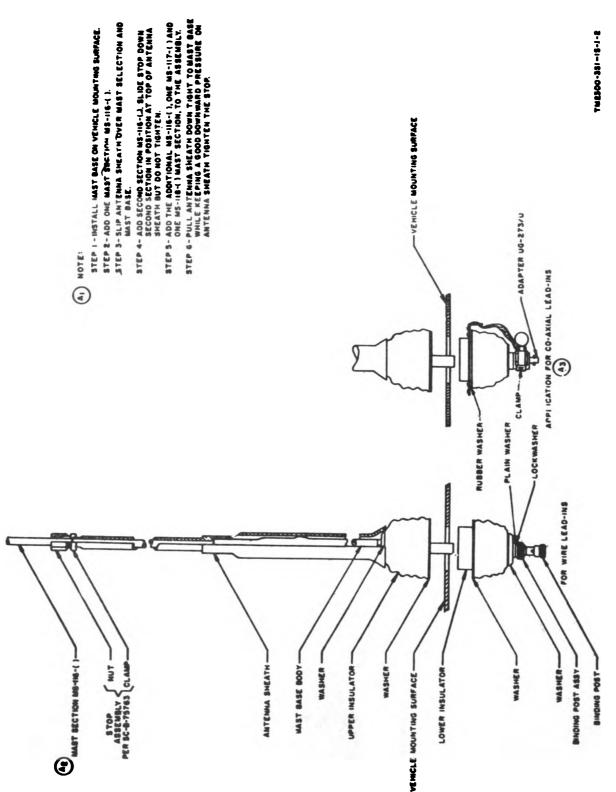
FA RIGHT ANGLE COMMECTOR IS DESIRED.

5. ALTACH DIS COMMECTOR (PLUG US-268/U ON THE ARTERNA

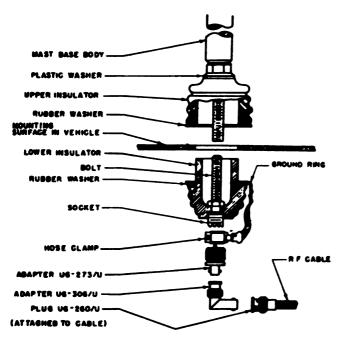
LEAD-IN TO ABAPTER US-273/U OR US-306/U.

TM2300-351-15-1-1

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



Plyare 9-6. Automa essembly precedure.



ASSEMBLY INSTRUCTIONS

ASSEMBLY INSTRUCTIONS

I. REPLACE ALL FIRMS OF MAST BASE MP-85-() EXCEPT THE MAST BASE
BOOV WITH ABAPTER RIT M-459 THMS STEP IS NOT REQUIRED FOR LAYE
PHODUCTION MODELS OF MP-65-8 WHICH ARE ALREADY EQUIPPER SITH A
COALIAL TYPE SOCRET WITH PEROVABLE SHIDNING POST ASSEMBLY,
2. PLACE ONE LANGE RUBGER WASHER AND THE UPPER INSULATION ONER
THE MOUNTING HOLE.
3. PLACE THE SMALL PLASTIC WASHER ON THE STEM OF THE MAST
BASE BOOV.
4. HISGET THE MAST BASE BOOV BITS THE HOLE IN THE UPPER
HAMLA TOR.

MEDILATOR.

5. PLACE THE OTHER LARGE RUSSER WASHER ON THE LOWER INSULATOR.

6. PLACE THE GROUND RING ON TOP OF THE WASHER, GROUND RING IS MOT
REQUIRED WHEN R P CABLE CO-SORVE SEMLOYED.

7. INSERT THE LOWER HISULATOR MITO THE MOUNTING HOLE PROMI
UNDERREATH.

8. ASSEMBLE THE MAST BASE BY HOLDING THE LOWER INSULATOR AND
TURNHAGETHE MAST BASE BODY UNTIL THE MAST BASE IS SECURE.

TO ATTACH ANTENNA LEAD-IN TO MAST BASE
I UNSCREW BINDING POST ASSEMBLY FROM LOWER INSULATOR AND
DISCARD.
2. ATTACH ADAPTER US-273/U TO THE ADAPTER SOCRET ON THE

2. ATTACH ABAPTER US-273/U TO THE ABAPTER SOCKET ON THE LOWER INSULATION.

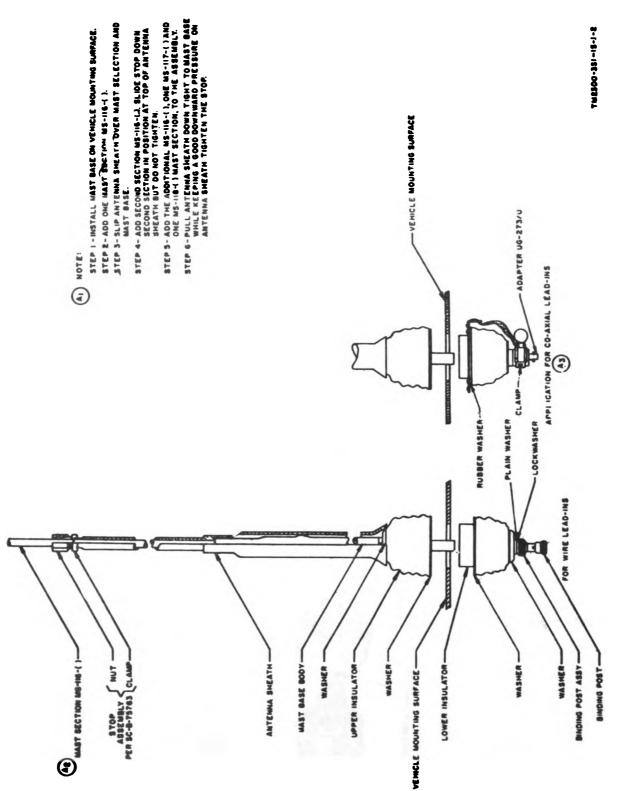
3. SLIP MOSE CLAMP OVER ABAPTER AND TIGHTEN SECURELY.
MOSE CLAMP IS NOT REGULARD WHEN BY CABLE CS-586/U IS USES

4. ABAPTER US-386/U MAY DE ATTACHED TO ABAPTER US-273/U
FA RIGHT ANGLE CORMECTOR IS DESIRED.

5. ATTACH BIS COMMECTOR IPLUS US-288/U ON THE ANTENNA
LEAD-IN TO ABAPTER US-273/U OR US-306/U.

TM2300-351-15-1-1

Figure 2-1. Assembly instructions for Maint Base MP-65() (for antenna cable connectors using BN(: connectors).



Plyare 2-6. Automa assembly precedure.

3. USE LUGRICANT "PETROLATUM, WHITE PRAMEL" PER PEDERAL SPEC.

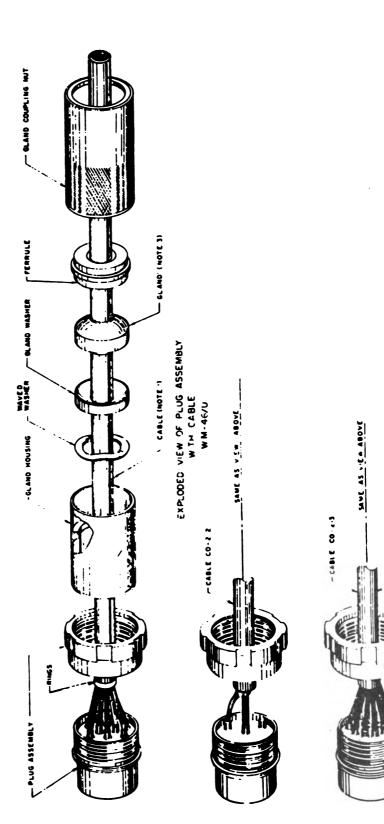


Figure 2-3. Assembly of unterproof vehicle terminal box plugs.

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



TM 11-2300-351-15-1

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NG: None.

USAR: None.

For explanation of abbreviations used see AR 320-50.

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