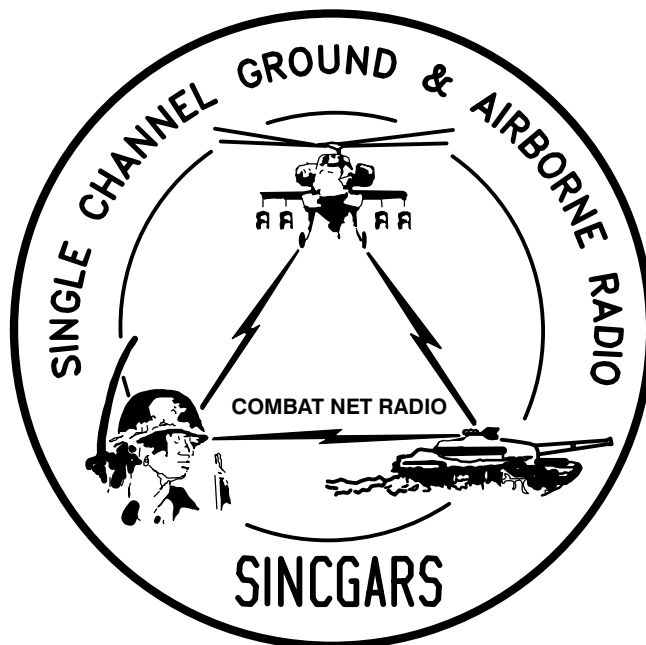


TECHNICAL BULLETIN



**INSTALLATION INSTRUCTIONS FOR
INSTALLATION KIT, ELECTRONIC EQUIPMENT,
MK-2407/VRC (NSN 5895-01-295-2506) (EIC: N/A)
TO PERMIT INSTALLATION OF
RADIO SET AN/VRC-87/88/90 SERIES
IN A
SHOP EQUIPMENT GUIDED MISSILE SYSTEM
CONTACT SUPPORT SET AN/TSM-154**

Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

1 AUGUST 1999

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REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA 2028-2 located in back of this manual direct to: Commander, US Army Communications-Electronics Command Fort Monmouth, ATTN: AMSEL-LC-LEO-D-CS-CFO, Fort Monmouth, New Jersey 07703-5000. The Fax number is 732-532-1413, DSN 992-1413. You may also e-mail your recommendation to AMSEL-LC-LEO-PUBS-CHG@cecom3.monmouth.army.mil.

In either case a reply will be furnished direct to you.

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*This manual supersedes TB 11-5820-890-20-75, dated 1 September 1993.

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0.1 SCOPE.

This technical bulletin provides Installation Instructions for Installation Kit, Electronic Equipment, MK-2407/VRC, commonly referred to as the Mounting Kit (MK). The MK shall be installed into the following type of shelter(s):

- Shop Equipment Guided Missile System Contact Support Set AN/TSM-154

The MK is used for installation of radio set components at field locations. The information contained in this technical bulletin is the official authorization to perform the installation at the unit maintenance level.

NOTES

- This technical bulletin is not an authorization for requisition or turn-in of shelters.
- This technical bulletin does not establish quantity or types of shelters assigned to using units.

This technical bulletin does not contain information on the maintenance or replacement of the MKs. This information is contained in the MAC of TM 11-5820-890-20-2 and RPSTL of TM 11-5820-890-20P.

0.2 GENERAL INFORMATION.

The MK becomes operable when all the radio set components are installed in the shelter and correct power is supplied. Refer to TM 11-5820-890-20-1 or TM 11-5820-890-20-2 for installation, Operational (OP) Check instructions, and required maintenance procedures. Refer to TM 11-5820-890-20P for repair parts.

Included in the Radio Set AN/VRC-87/88/90 Series is:

- Radio Set AN/VRC-87/88/90 Series (for RT-1523(C)/U)

0.3 MAINTENANCE FORMS, RECORDS AND REPORTS.

0.3.1 Reports of Maintenance and Unsatisfactory Equipment. See section 4.2.2.3 for information.

0.3.2 Report of Packaging and Handling Deficiencies. See section 4.2.2.1 for information.

0.3.3 Discrepancy in Transportation Deficiency Report (TDR) (SF361). See section 4.2.2.2 for information.

0.4 CONSOLIDATED INDEX OF ARMY PUBLICATIONS.

Refer to the latest issue of DA Pam 25-30 to determine whether there are new changes, or additional publications pertaining to the equipment.

1. PURPOSE OF INSTALLATION.

The Installation Kit, Electronic Equipment, MK-2407/VRC (MK) contains the items needed to mount Radio Set AN/VRC- 87/88/90 Series in a Shop Equipment Guided Missile System Contact Support Set AN/TSM-154 (shelter).

2. END ITEM OR SYSTEM TO BE MODIFIED.

Not applicable.

3. APPLICATION TIMES.

3.1 Time for Completion of Installation. Using two people, a total of 2.0 work hours is required. Typical shelter downtime is 2.5 hours.

3.2 Time for Installation of One Assembly or Component. The following table lists the time required to install one component. All times have been rounded off to the nearest half hour. The sum of these times will not reflect the typical shelter downtime.

ITEM	SECTION	TIME
Mounting Base, Electrical Equipment MT-6352/VRC	5.1	1.5
Cables	5.2	1.0
Antenna AS-3900/VRC	5.3	0.5

4. PREPARATION FOR INSTALLATION.

This section explains how to prepare the shelter and MK for installation.

4.1 Preparation of Shelter. To prepare the shelter for installation, insure that the site includes adequate lighting and a power source when drilling is required. Inspect the shelter for damage that could affect installation. Have any such damage repaired before installing MK.

4.1.1 Items to be Removed. Remove existing AN/VRC-12 radio family installation kit/harness. See TM 11-5820-401-20-2 for removing items used with intercom systems, or TM 11-5820-401-20-1 (used without intercom systems), and TM 9-4935-453-14.

4.1.2 List of Items to be Retained. Retain existing power and AM-1780/VRC cables.

4.2 Preparation of MK. To prepare MK, unpack, inspect and check inventory.

4.2.1 Precautions During Handling. Observe these steps to prevent equipment damage.

- a. Keep dust covers in place on connectors.
- b. Do not disassemble or modify parts in MK unless authorized to do so.
- c. Keep mounting hardware covered and protected until needed.
- d. When exposed to moisture, rain or salt water, keep all parts dry to prevent corrosion.

4.2.2 Unpack and Inspect Equipment.

4.2.2.1 Inspect Packaging for Evidence of Damage. Any shipping damage should be reported on SF364 Report of Discrepancy (ROD) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73A/AFR 400-64/MCO 4430.3F.

4.2.2.2 Unpack and Inventory MK. If any item is missing, fill out and forward Transportation Deficiency Report (TDR) (SF361) as described in AR 55-38/NAVSUPINST 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

4.2.2.3 Examine Each Item for Damage. If any item is damaged, fill out and forward SF364 Report of Discrepancy (ROD) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73A/AFR 400-64/MCO 4430.3F. All damages should be reported as prescribed by DA Pam 738-750, as contained in Maintenance Management Update.

4.3 MK, Distribution, and Consumables.

4.3.1 Items Supplied in MK and/or Required for Installation. Use Table 4-1 and figure 4-1 to identify and inventory MK parts supplied to install Radio Set AN/VRC-87/88/90 Series.

4.3.2 Distribution and Issue Instructions.

- a. US Forces: Do not requisition MK. They will be shipped automatically.
- b. US Army Depots: Requisition MK through supply channels.
- c. Multiservice: Instructions shall be included for multiservice modifications.
- d. MAP/MAS Countries: Instructions shall be provided for MAP/MAS countries.

Table 4-1. Parts List for Installation of Radio Set AN/VRC-87/88/90 Series

NSN	ITEM DESCRIPTION AND PART NUMBER	QUANTITY IN MK	SMR CODE	FIGURE, ITEM NO.
5985-01-297-2971	Antenna AS-3900/VRC (A3017899-1)	1	PAOOF A	4-1, 2
5305-00-847-1159	Screw, Cap, Hexagon (3/8-16 x 1 3/4 in) MS35307-365	4	PAOZZA	
5310-00-913-8881	Nut, Hexagon (3/8-16 in) MS51971-3	4	PAOZZA	
5310-00-061-1258	Washer, Lock, Internal/External-Toothed (3/8 in) MS45904-76	8	PAOZZA	
5310-00-889-2527	Washer, Lock, Internal/External-Toothed (5/16 in) MS45904-72	2	PAOZZA	
5306-00-225-9086	Bolt, Machine (5/16-24 x 5/8 in) MS90726-31 (Not Used)	1	PAOZZA	
5330-01-205-2864	Gasket (A3013655-1)	1	PAOZZA	
5965-00-876-2375	Loudspeaker, Permanent Magnet LS-454/U	1	PAOZZA	4-1, 4
5975-01-188-8873	Mounting Base, Electrical Equipment MT-6352/VRC (A3013367-1)	1	PAOOF A	4-1, 1
5306-00-225-9089	Bolt, Machine (5/16-24 x 1 in) MS90726-34	5	PAOZZA	
5310-00-889-2527	Washer, Lock, Internal/External-Toothed (5/16 in) MS45904-72 (5 Not Used)	10	PAOZZA	
5310-00-880-7746	Nut, Hexagon (5/16 - 24 in) MS51968-5 (Not Used)	5	PAOZZA	
5995-01-303-4951	Cable Assembly, Special Purpose, Electrical CX-13313/VRC (2 FT, 7 IN) (A3018360-1)	1	PAOZZA	4-1, 6
5995-01-225-1662	Cable Assembly, Radio Frequency CG-3855/VRC (12 FT, 0 IN) (A3014031-12)	1	PAOZZA	4-1, 7
5340-00-809-1490	Clamp, Loop (1/4-1/4 in) MS21333-98	2	PAOZZA	
5340-00-984-8541	Clamp, Loop (7/8-1/4 in) MS21333-106	1	PAOZZA	
4020-01-341-8795	Fiber Rope Assembly, Single Leg (A3167672-1)	1	PAOZZA	4-1, 5
5325-00-185-0005	Grommet, Nonmetallic MS35489-37	2	PAOZZA	
5965-00-043-3463	Handset H-250/U	1	PAOZZA	4-1, 3
5975-00-111-3208	Strap, Tiedown, Electrical Components MS3367-5-9	10	PAOZZA	

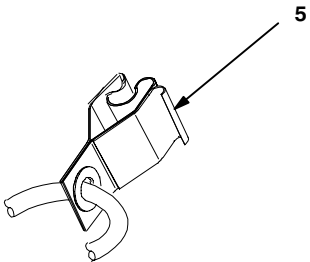
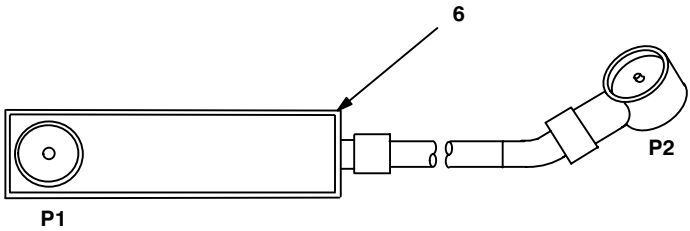
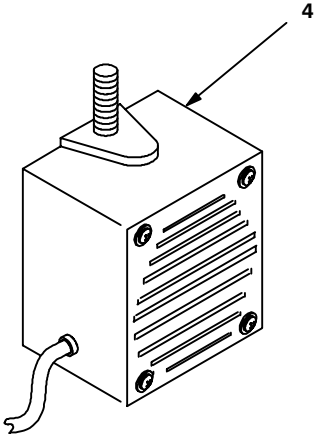
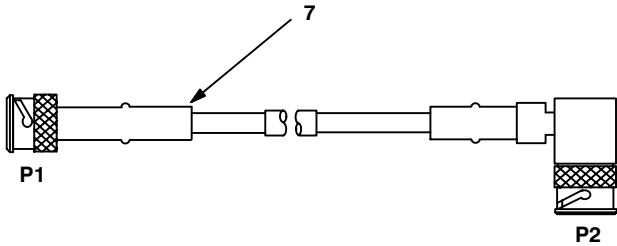
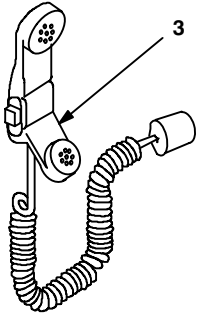
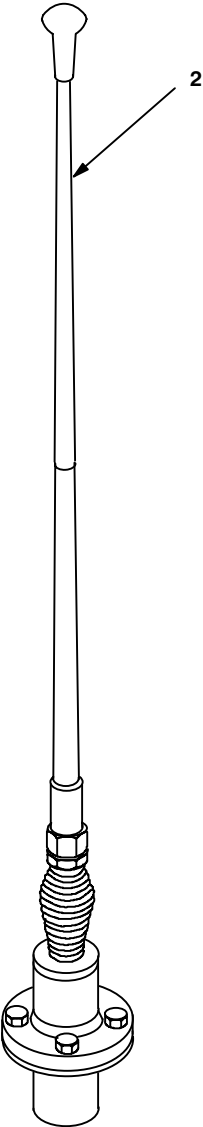
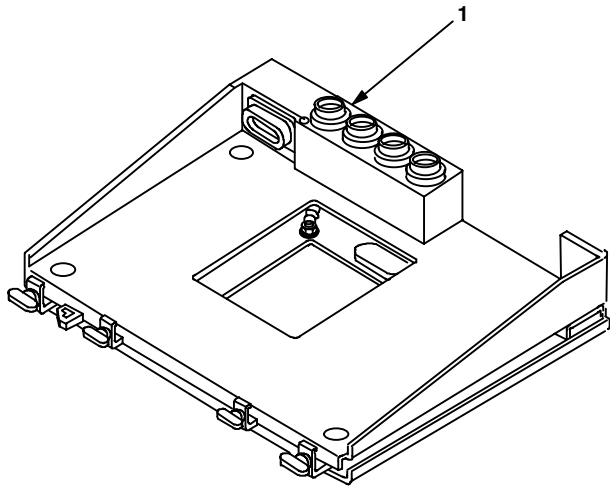


Figure 4-1. MK Illustrated Parts List

4.3.3 Consumable Materials. The table below lists materials required for installation but not supplied with MK.

NSN	NOMENCLATURE
8040-00-117-8510	Adhesive-Sealant, Clear, RTV
6850-00-880-7616	Silicone Compound, MIL-S-8660
8030-00-292-1102	Conductive Anti-seize Compound

4.4 Tools and Test, Measurement and Diagnostic Equipment (TMDE) Required. The following tools and TMDE are needed for installation.

NOMENCLATURE	NSN	QUANTITY
Radio Set*		1
Electric Grinder or Equivalent		1
Pocket Knife, Electrician's	5110-00-240-5943	1
Screwdriver, No. 2 Point Phillips, 4 in	5120-00-234-8913	1
Screwdriver, 1/4 in Flatblade, 4 in	5120-00-222-8852	1
Pliers, Round Nose	5120-00-240-6172	1
Pliers, Diagonal Cutting	5110-00-965-0974	1
Wrench, Open/Box: 1/2 in	5120-00-228-9506	1
9/16 in	5120-00-228-9507	1
Handle, Socket Wrench	5120-00-240-5364	1
Socket: 1/2 in	5120-00-237-0977	1
9/16 in	5120-00-227-6704	1
Electric Drill:	5130-00-889-8994	1
Drill Bits: 5/16 in	5133-00-227-9662	1
13/32 in	5133-00-227-9668	1

* Use radio issued with your shelter if available.

5. INSTALLATION PROCEDURES.

This section describes where and how to install MK items in the shelter. See figure 5-1 for an overall view of where the MK equipment, as well as radio components, typically will be installed. When installing MK equipment, be sure to read and follow instructions and illustrations carefully.

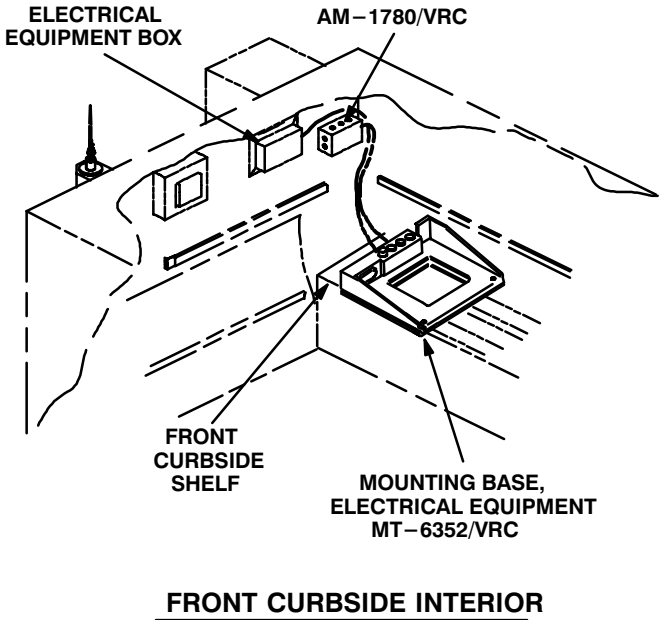
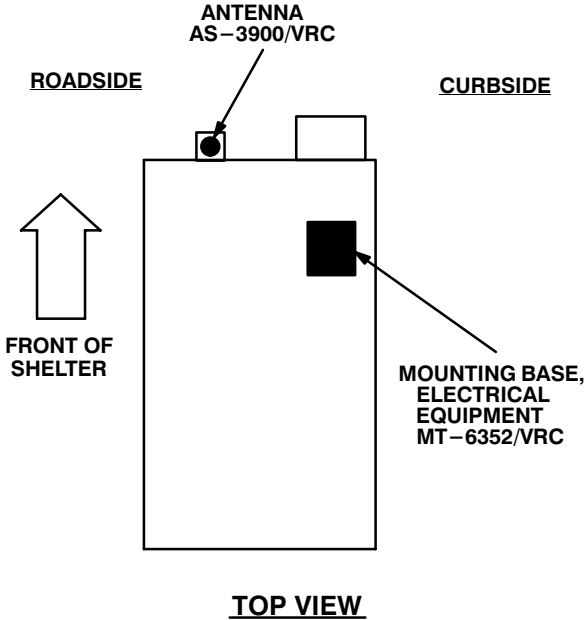
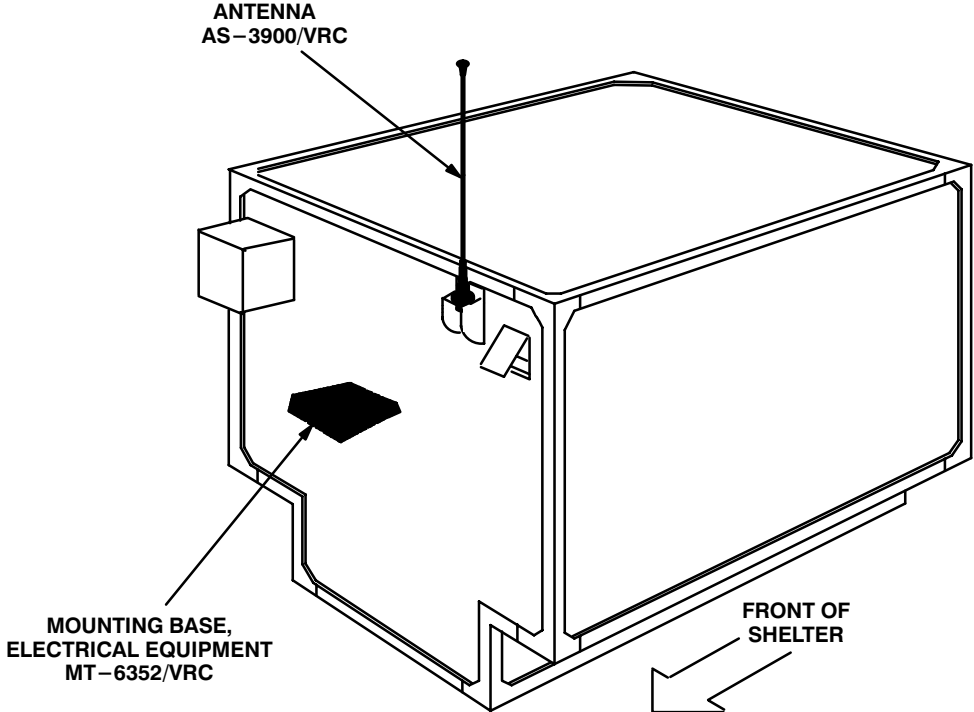


Figure 5-1 (1). MK and Radio Installation: MK Equipment Locations

5. INSTALLATION PROCEDURES. Continued

INSTALLATION
FOR
AN/VRC-87/88/90 Series

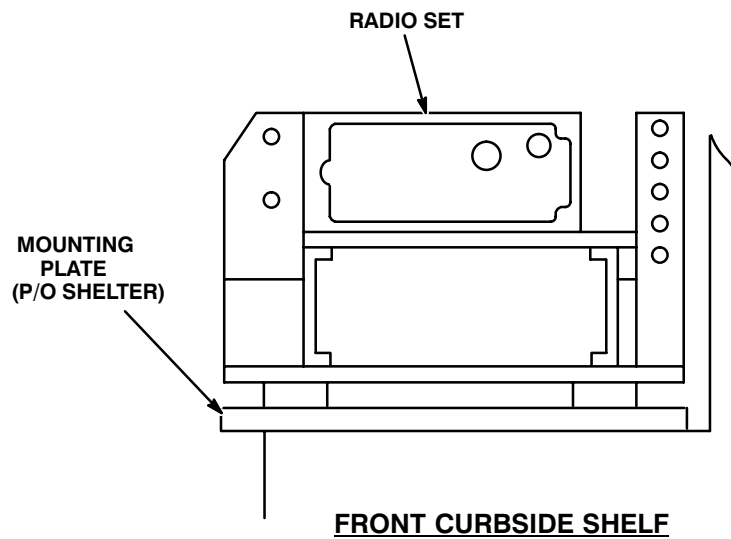


Figure 5-1 (2). MK and Radio Installation: Radio Equipment Locations

5.1 Installation of Mounting Base, Electrical Equipment MT-6352/VRC (mounting base). Remove and retain attaching bag of 5/16 in mounting hardware for installation. To insure good electrical grounding, any rust, corrosion or paint around mounting holes in mounting plate should be removed before installing the mounting base. See figure 5-2 and perform the following steps.

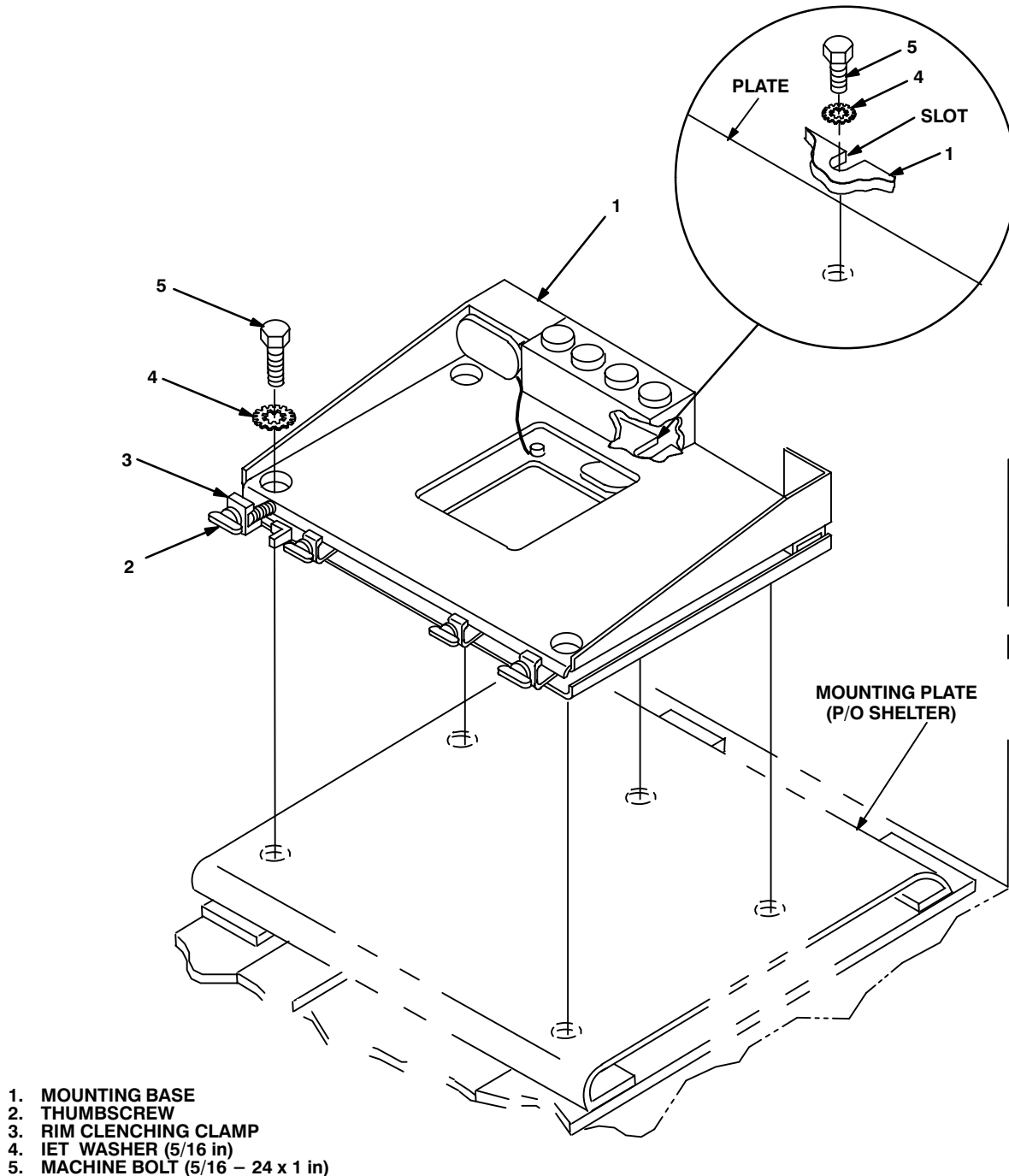


Figure 5-2. Mounting Base Installation: Front Curbside Wall

5.1 Installation of Mounting Base, Electrical Equipment MT–6352/VRC (mounting base). Continued

ITEM	ACTION	REMARKS
NOTE		
Apply a thin coat of adhesive–sealant to both sides of each internal/external–toothed (IET) washer during installation, and to the area of contact where IET washer is to be placed.		
a. Mounting base (1) and existing mounting plate.	Remove a 2” square area of paint on the underside of the mounting base (1) around left front and rear mounting holes. Remove a 2” square area of paint on the existing mounting plate around the existing mounting holes that mate with left front and rear mounting holes of mounting base (1). Clean the paint removed areas and apply a thin coat of conductive anti–seize compound	Tools: Electric grinder or equivalent.
b. Mounting base (1).	Place on mounting plate over existing holes.	
c. Two outer thumbscrews (2).	Turn ccw until both sets of threads have cleared center of holes.	
d. Mounting base (1).	Align four holes and rear slot with matching hole pattern in plate.	
e. Five machine bolts (5) and five IET washers (4).	Install and secure to mounting base (1) and plate.	Tools: 1/2 in socket and 1/2 in open/box wrench.
f. Two outer thumbscrews (2).	Tighten and secure to rim clenching clamps (3) and mounting base (1).	

5.2 Installation of Cables. To accomplish the installation, leave loop clamps and tiedown straps loose enough to adjust cable slack and allow easy adjustment of equipment. When installation is complete, tighten and secure clamps and tiedown straps.

WARNING

Make sure shelter power source is positioned OFF or disconnected before installing cables.

ITEM	ACTION	REMARKS
a. Existing antenna bracket, support plate and mounting hardware.	Temporarily remove from inner and outer panels of front wall. See figure 5–3.	
b. Two grommets (7).	Cut through on mark shown. See figure 5–3, detail A.	
c. RF cable (2) connector P1.	Insert through existing hole in support plate and front wall to outside of shelter.	
d. Two grommets (7).	Wrap around RF cable (2); then install to inner and outer panels of front wall.	
e. Support plate and existing bolts (removed in step a).	Reinstall to inner panel of front wall.	
f. RF cable (2) connector P1.	Insert through existing hole in antenna bracket. See figure 5–3.	
g. Antenna bracket and existing nuts (removed in step a).	Reinstall to outer panel of front wall.	
h. RF cable (2).	Route above equipment shelf to right side of of AM–1780/VRC.	
i. RF cable (2) connector P2.	Position on top of mounting base (3).	
j. Tiedown strap (1).	Wrap around RF cable (2) and install loosely to existing cable harness. See figure 5–3 for location(s).	
k. Two loop clamps (5) and existing mounting hardware.	Wrap around RF cable (2); then install to existing clamps on front wall.	
l. Tiedown strap (1).	Wrap around RF cable (2) and install loosely to existing power cable on right side of electrical equipment box.	
m. Loop clamp (6) and existing mounting hardware.	Wrap around RF cable (2) and existing power cable; then install to front wall.	
n. Existing AM–1780/VRC cable (connected to J501).	Connect and secure to SP cable (4) connector P1. See figure 5–3, detail B.	

5.2 Installation of Cables. Continued

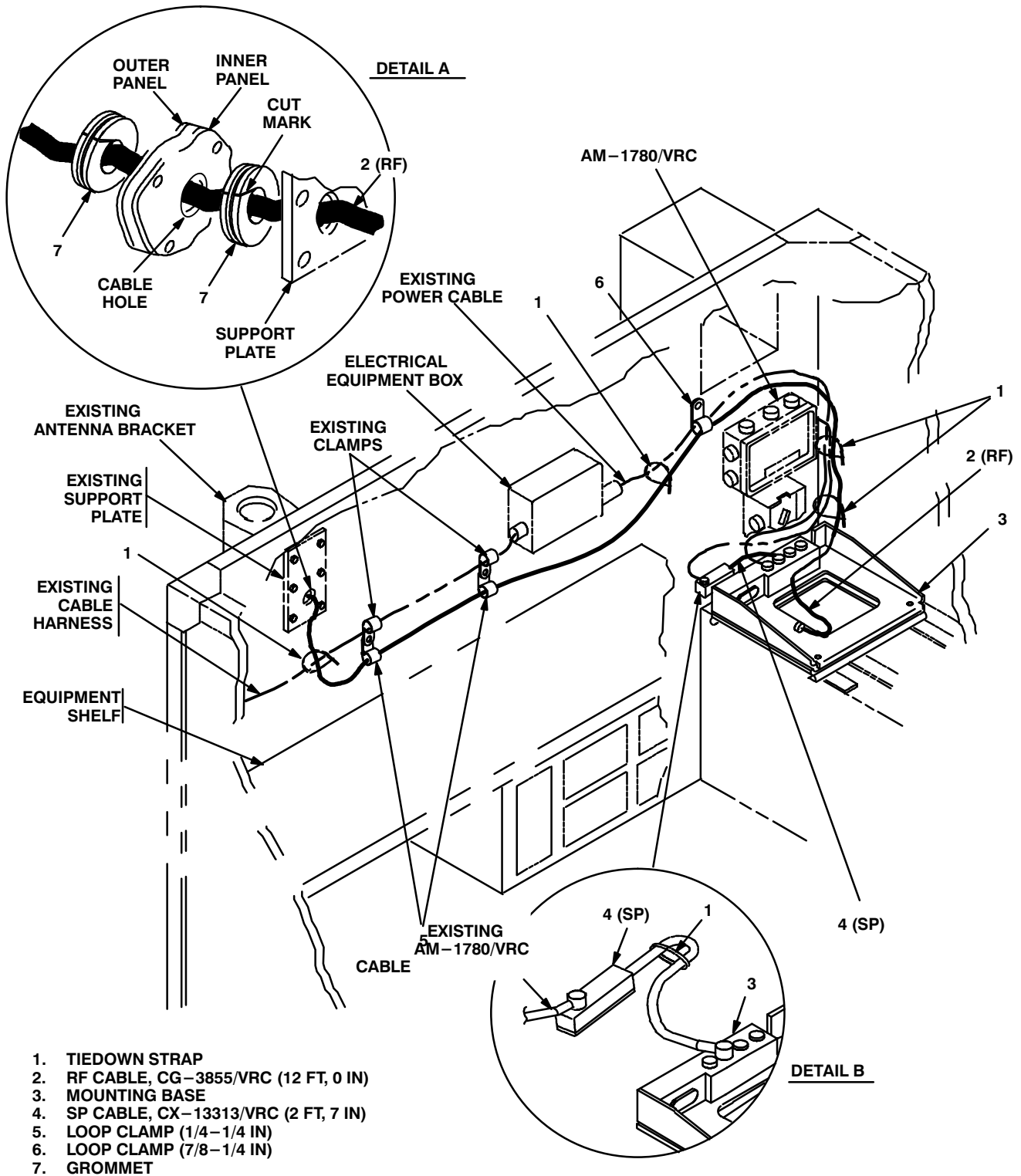


Figure 5-3. Cable Installation: Front Wall

5.2 Installation of Cables. Continued

ITEM	ACTION	REMARKS
o. SP cable (4) connector P2.	Connect and secure to mounting base (3) connector J3. See figure 5-3, detail B.	
p. SP cable (4).	Position behind mounting base (3), then secure with tiedown strap (1).	
q. Two tiedown straps (1).	Install loosely around RF cable (2), existing power cable and existing AM-1780/VRC cable. See figure 5-3 for location(s).	
r. Existing power cable.	Position on top of mounting base (3). See figure 5-3.	

5.3 Installation of Antenna AS-3900/VRC (antenna). See figure 5-1 (1) for location.

5.3.1 Installation of Antenna Base.

ITEM	ACTION	REMARKS
------	--------	---------

NOTE

Apply a thin coat of adhesive-sealant to both sides of each internal/external-toothed (IET) washer during installation, and to the area of contact where IET washer is to be placed.

- | | | |
|--|---|--|
| a. Gasket (5). | Place on existing antenna bracket and align mounting holes. See figure 5-4. | |
| b. Antenna base (1). | Place on top of gasket (5) and antenna bracket; then align mounting holes. | |
| c. Four cap screws (3), eight IET washers (4) and four nuts (6). | Install and secure to antenna base (1) and antenna bracket. | Tools: 9/16 in socket and 9/16 in open/box wrench. |
| d. Ground strap (8), two IET washers (7) and existing nut. | Install and secure to existing bolt and antenna bracket. | |

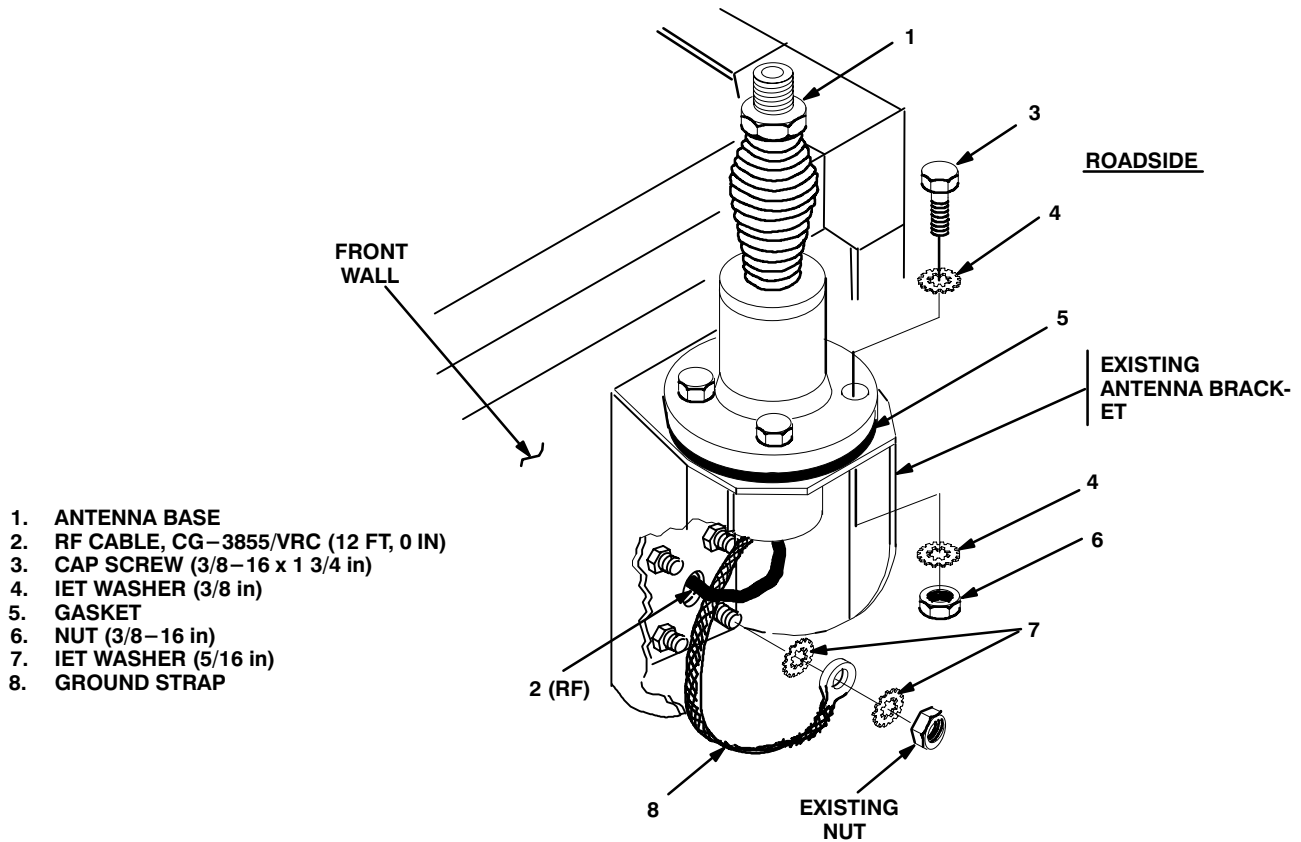

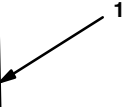
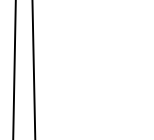
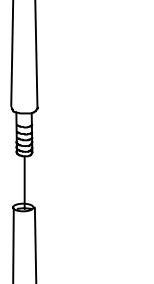


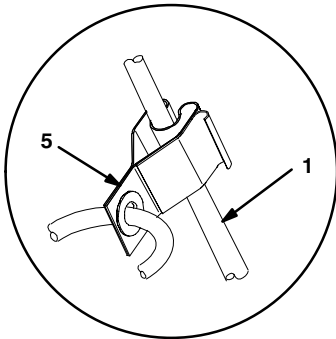
Figure 5-4. Antenna Base Installation: Front Roadside Wall

5.3.1 Installation of Antenna Base. Continued

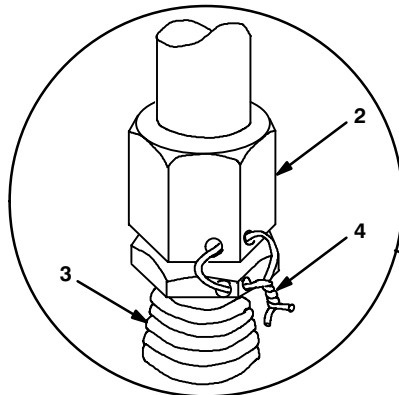
ITEM	ACTION	REMARKS
e. RF cable (2) connector P1.	Connect and secure to antenna base (1) connector J1. See figure 5-4.	
f. Adhesive-sealant.	Apply to and around previously installed grommets (7). See figure 5-3.	
g. Existing power cable.	Connect and secure to mounting base (3) connector J1.	

5.3.2 Installation of Top Antenna Assembly. The top portion of the antenna includes a lower element and an upper element (with installed cap). Use the following procedure to assemble, install and tie down all antennas.

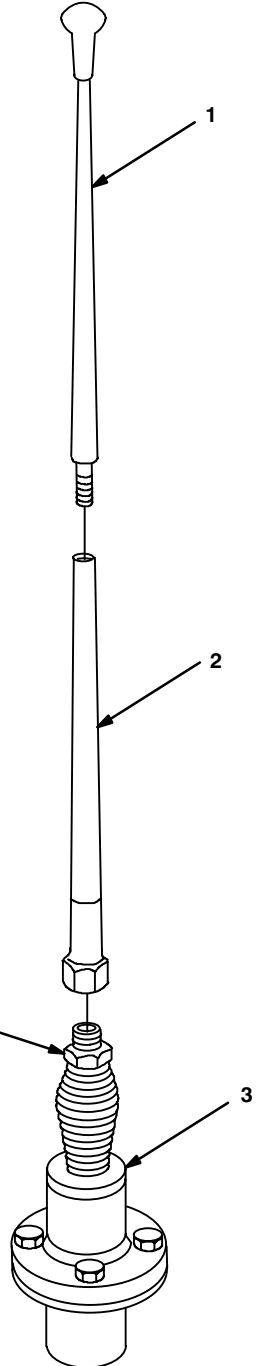
ITEM	ACTION	REMARKS
a. Antenna elements (1, 2).	Apply silicone compound to element threads and assemble. See figure 5-5.	
b. Antenna element (2).	Install and hand-tighten to antenna base (3).	
c. Lock wire (4).	Install to antenna element (2) and antenna base (3). See figure 5-5, detail A. Cut and remove excess wire with diagonal cutting pliers.	
d. Fiber rope assembly (5).	Attach clip to antenna element (1). Tie rope to vehicle to position antenna in desired location. See figure 5-5, detail B.	



DETAIL B



DETAIL A



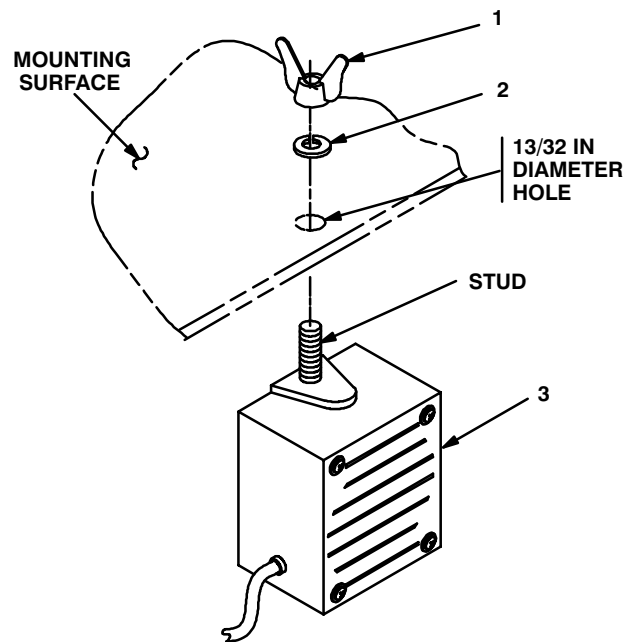
- 1. ANTENNA ELEMENT (UPPER)
- 2. ANTENNA ELEMENT (LOWER)
- 3. ANTENNA BASE
- 4. LOCK WIRE
- 5. FIBER ROPE ASSEMBLY

Figure 5-5. Top Antenna Assembly Installation

5.4 Installation of Loudspeaker, Permanent Magnet LS-454/U (speaker). Mounting location for speaker may be determined by the shelter commander. Typical methods used for mounting the speaker are as follows:

Method A. See figure 5-6 (1).

- Determine speaker (3) location.
- Drill $13/32$ in diameter hole through mounting surface.
- Insert speaker (3) stud through drilled hole; then secure with lock washer (2) and wing nut (1).



1. WING NUT ($3/8-24$ in)
2. LOCK WASHER ($3/8$ in)
3. SPEAKER
4. CAP SCREW ($1/4-20 \times 1$ in)
5. SPEAKER BRACKET
6. LOCK WASHER ($1/4$ in)
7. NUT ($1/4-20$ in)

Figure 5-6 (1). Speaker Installation - A

Method B. See figure 5-6 (2).

NOTE

Items (4), (6) and (7) are not supplied in kit.

- Determine speaker (3) location.
- Drill two $5/16$ in diameter holes through mounting surface.
- Install and secure two cap screws (4), two lock washers (6) and two nuts (7) to speaker bracket (5) and mounting surface.
- Insert speaker (3) stud through speaker bracket (5) hole; then secure with lock washer (2) and wing nut (1).

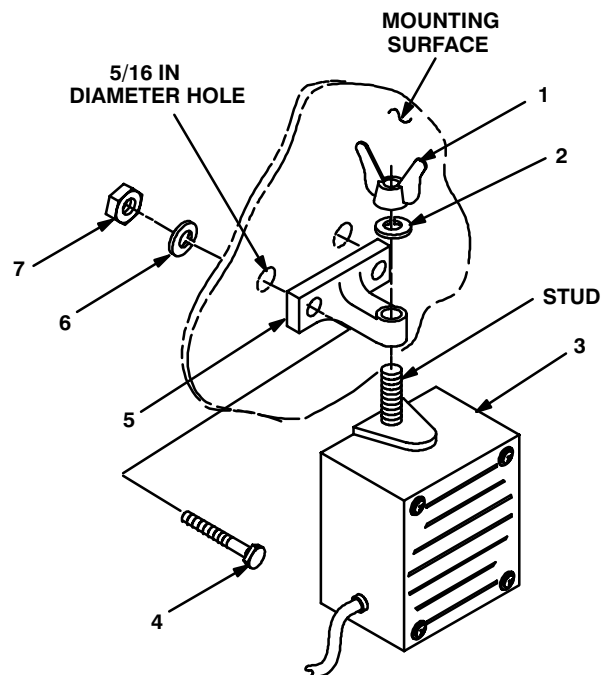
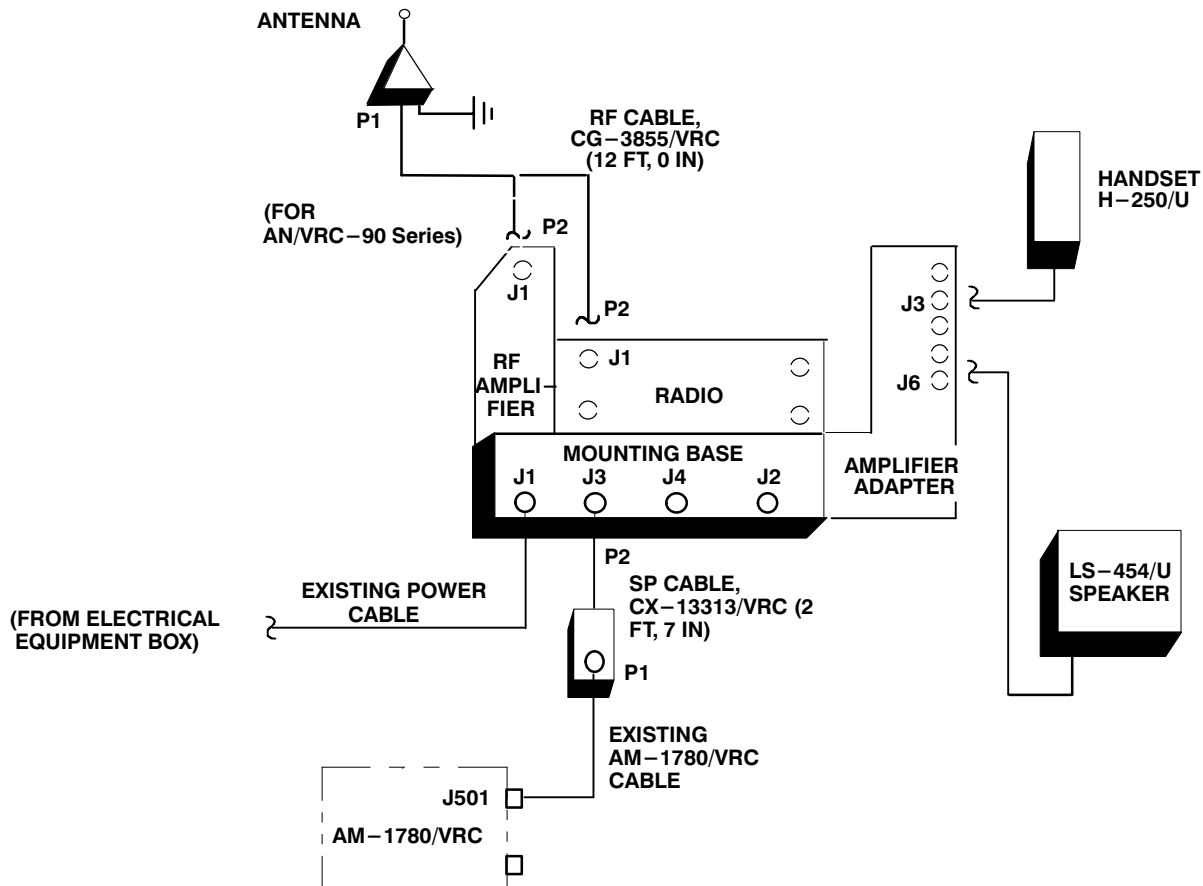


Figure 5-6 (2). Speaker Installation - B

5.5 Post–Installation and Checkout. After equipment is installed and cables are connected, perform the following steps.

ITEM	ACTION	REMARKS
a. Equipment.	Check for secure mounting. Check for loose parts, connectors and mounting hardware.	
b. Cables.	Check for proper installation and connection of cables. See figure 5–7 for cable connections. Unused cables should be stowed in appropriate place inside the shelter.	
c. Loop clamps.	Check that all have been properly installed and tightened.	
d. Protective covers.	Insure that all installed cables are covered when not in use or connected.	
e. Radio issued with shelter.	Install and connect cables. See TM 11–5820–890–20–1 or TM 11–5820–890–20–2 for installation and Operational (OP) Check instructions.	
f. MK line replaceable units.	See TM 11–5820–890–20P for Repair Parts and Special Tools List (RPSTL) information.	

5.6 Post-Installation and Checkout. Continued



CABLE ASSEMBLY	FROM			TO		
	CABLE CONN.	UNIT	UNIT CONN.	CABLE CONN.	UNIT	UNIT CONN.
Existing power cable		Electrical equipment box			Mounting base	J1
Existing AM-1780/VRC cable		AM-1780/VRC	J501		CX-13313/VRC (2 FT, 7 IN)	P1
CX-13313/VRC (2 FT, 7 IN)	P1	Existing AM-1780/VRC cable		P2	Mounting base	J3
CG-3855/VRC (12 FT, 0 IN)	P1	Antenna base	J1	P2	RF amplifier or radio	J1
Handset cable		Handset			Amplifier-adapter	J3
Speaker cable		LS-454/U speaker			Amplifier-adapter	J6

Figure 5-7. Cable Diagram: For AN/VRC-87/88/90 Series

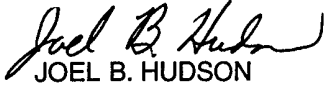
APPENDIX A

REFERENCES

AMDF	Army Master Data File (Microfiche)
AR 710-2	Supply Policy Below the Wholesale Level as Contained in Unit Supply UPDATE
AR 725-50	Requisitioning, Receipt and Issuing System in UPDATE
DA Pam 25-30	Consolidated Index of Army Publications (Microfiche)
DA Pam 710-2-1	Using Unit Supply System Manual Procedures as Contained in Unit Supply UPDATE
SB 11-131-2	Vehicular Radio Sets and Authorized Installations (SINCGARS)
TM 11-5820-890-10-1	Operator's Manual (ICOM Radio Sets)
TM 11-5820-890-10-3	Operator's Manual (Non-ICOM Radio Sets)
TM 11-5820-890-20-1	Unit Maintenance Manual (ICOM Radio Sets)
TM 11-5820-890-20-2	Unit Maintenance Manual (Non-ICOM Radio Sets)
TM 11-5820-890-20P	Repair Parts and Special Tools List

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
*Administrative Assistant to the
Secretary of the Army*

9916736

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2-25	2-28		
3-10	3-3		3-1
5-6	5-8		
		FO-3	

Recommend that the installation antenna alignment procedure be changed throughout to specify a 20 IFF antenna lag rather than 10

REASON: Experience has shown that with only a 10 lag, the antenna servo system is too sensitive to gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 20 without degradation of operation.

Item 5, Functional column. Change 2 dB" to 3 dB".

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

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

REASON: To replace the cover plate.

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

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

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