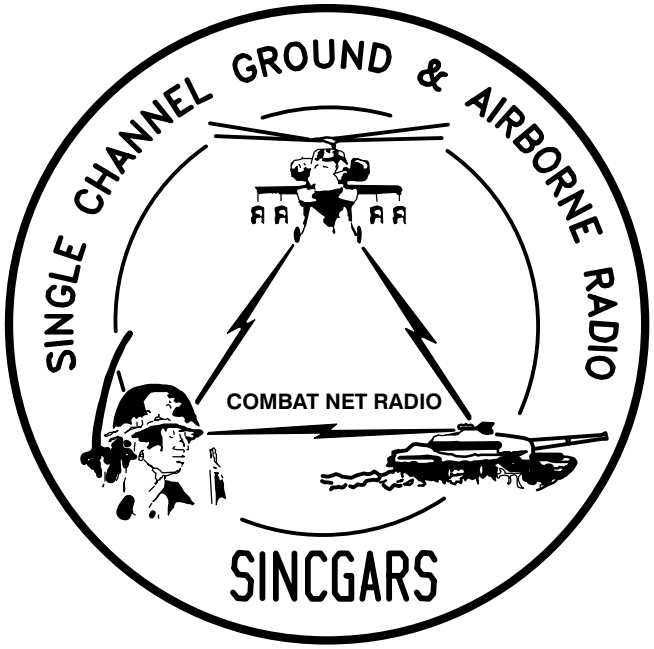
TECHNICAL BULLETIN



INSTALLATION INSTRUCTIONS FOR INSTALLATION KIT, ELECTRONIC EQUIPMENT, MK−2306/VRC (NSN 5895−01−285−7989) (EIC: N/A) TO PERMIT INSTALLATION OF RADIO SET AN/VRC−87/88C Series INTO CARRIER, AMMUNITION, TRACKED, M992

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HEADQUARTERS, DEPARTMENT OF THE ARMY

1 AUGUST 1999

TECHNICAL BULLETIN

NO. 11–5820–890–20–20

*TB 11–5820–890–20–20
HEADQUARTERS,
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WASHINGTON, DC, 1 AUGUST 1999

INSTALLATION INSTRUCTIONS FOR INSTALLATION KIT, ELECTRONIC EQUIPMENT, MK–2306/VRC (NSN 5895–01–285–7989) (EIC: N/A) TO PERMIT INSTALLATION OF RADIO SET AN/VRC–87/88C Series INTO CARRIER, AMMUNITION, TRACKED, M992

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@ce-com3.monmouth.army.mil.

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

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

LIST OF ILLUSTRATIONS

LIST OF TABLES

0.1 SCOPE.

This technical bulletin provides Installation Instructions for Installation Kit, Electronic Equipment, MK−2306/VRC, commonly referred to as the Mounting Kit (MK). The MK shall be installed into the following type of vehicle(s):

- Carrier, Ammunition, Tracked, M992

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 vehicles.
- This technical bulletin does not establish quantity or types of vehicles 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 vehicle 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.

Radio Set AN/VRC−87/88C Series includes:

- Radio Set AN/VRC−87/88C 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−2306/VRC (MK) contains the items needed to mount Radio Set AN/VRC−87/88C Series in a Carrier, Ammunition, Tracked, M992 (vehicle).

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 3.5 work hours is required. Typical vehicle downtime is 4.0 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 vehicle downtime.

ITEM	SECTION	TIME
Antenna AS−3900/VRC	5.1	1.0
Mounting Base, Electrical Equipment MT−6576/VRC	5.2	1.5
Cables	5.3	1.0

4. PREPARATION FOR INSTALLATION.

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

4.1 Preparation of Vehicle. To prepare the vehicle for installation, insure that the site includes adequate lighting and a power source when drilling is required. Inspect the vehicle 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 9−2350−267−20.

4.1.2 List of Items to be Retained. Not applicable.

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−87/88C 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–87/88C 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	PAOOFA	4–1, 3
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 (Not Used)	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	
5975–01–285–2352	Mounting Base, Electrical Equipment MT–6576/VRC (A3018353–1)	1	PAOOFA	4–1, 1
5306–00–225–9089	Bolt, Machine (5/16–24 x 1 in) MS90726–34 (Not Used)	4	PAOZZA	
5310–00–889–2527	Washer, Lock, Internal/External–Toothed (5/16 in) MS45904–72	8	PAOZZA	
5310–00–880–7746	Nut, Hexagon (5/16 – 24 in) MS51968–5	4	PAOZZA	
5995–01–219–1848	Cable Assembly, Power, Electrical CX–13306/VRC (2 FT, 0 IN) (A3014043–1)	1	PAOZZA	4–1, 8
5995–01–219–7031	Cable Assembly, Radio Frequency CG–3855/VRC (9 FT, 0 IN) (A3014031–4)	1	PAOZZA	4–1, 7
5995–01–303–4951	Cable Assembly, Special Purpose, Electrical CX–13313/VRC (2 FT, 7 IN) (A3018360–1)	1	PAOZZA	4–1, 6
5995–01–227–0473	Cable Assembly, Special Purpose, Electrical CX–13300/VRC (4 FT, 0 IN) (A3014044–6)	1	PAOZZA	4–1, 5
5306–00–225–8499	Bolt, Machine (5/16–18 x 1 in) MS90725–34	6	PAOZZA	
	Bracket, Mounting - Antenna (A3050655–1)	1	XBOZZA	4–1, 2
	Bracket, Multiple Angle (A3018306–1)	1	XBOZZA	4–1, 4
5340–00–809–1490	Clamp, Loop (1/4–1/4 in) MS21333–98	4	PAOZZA	
4020–01–341–8795	Fiber Rope Assembly, Single Leg (A3167672–1)	1	PAOZZA	4–1, 9
5306–00–225–9091	Screw, Cap, Hexagon (5/16–24 x 1 1/4 in) MS90726–36	4	PAOZZA	
5305–00–146–2662	Screw, Tapping, Hex-Head (1/4–20 x 3/4 in) MS51851–86	6	PAOZZA	
5975–00–111–3208	Strap, Tiedown, Electrical Components MS3367–5–9	10	PAOZZA	
	Tubing, Nonmetallic - Plastic (A3018681–1)	1	XBOZZA	
5310–00–889–2527	Washer, Lock, Internal/External–Toothed (5/16 in) MS45904–72	6	PAOZZA	
5310–00–889–2528	Washer, Lock, Internal/External–Toothed (1/4 in) MS45904–68	7	PAOZZA	

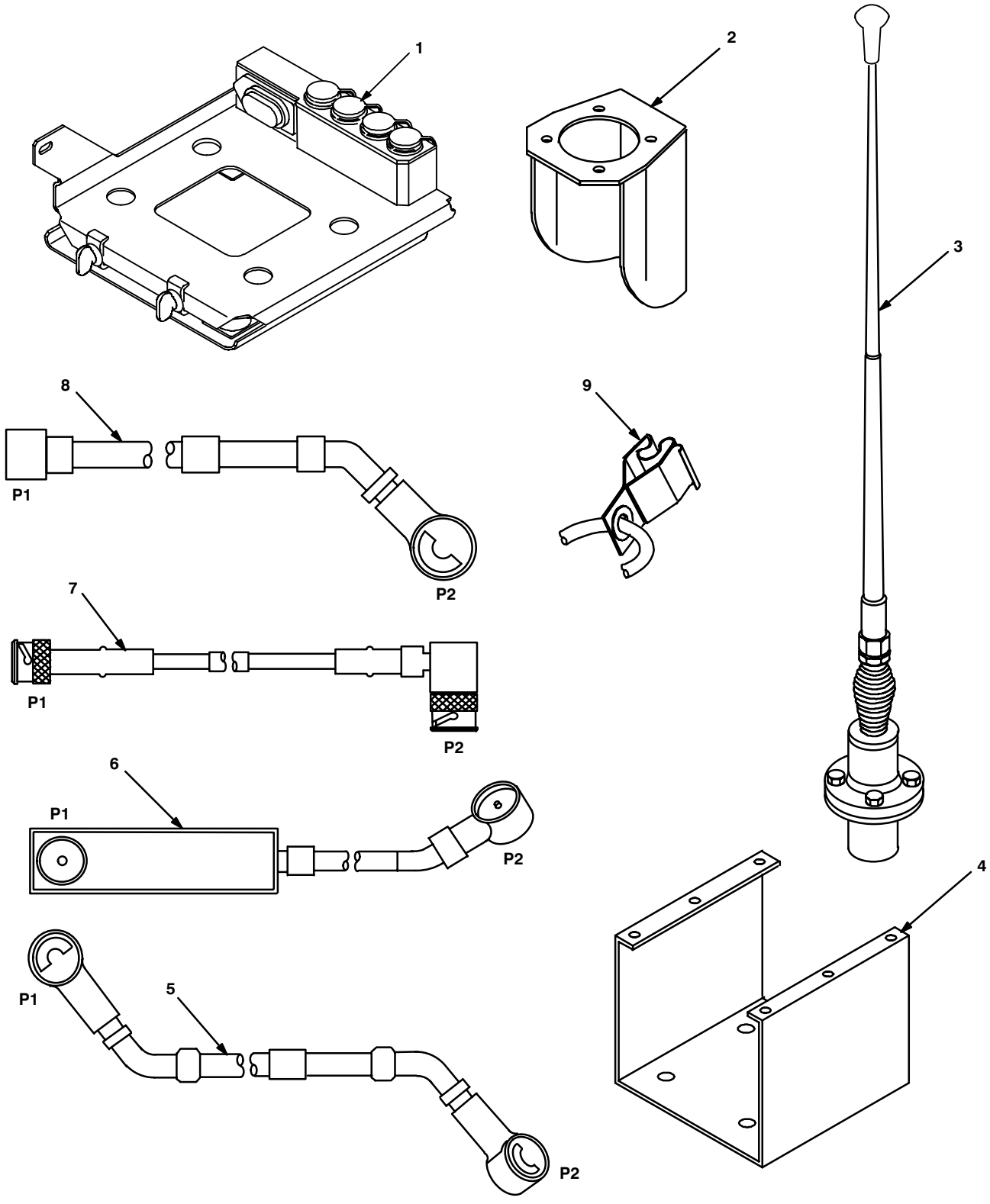


Figure 4−1 (1). MK Illustrated Parts List

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: 3/8 in	5120−00−228−9504	1
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: 7/16 in	5120−00−227−6703	1
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: 5/8 in		
Size 1 (.228 in)	5133−00−189−9246	1

* Use radio issued with your vehicle if available.

5. INSTALLATION PROCEDURES.

This section describes where and how to install MK items in the vehicle. See figure 5−1 for an overall view of where vehicular 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.

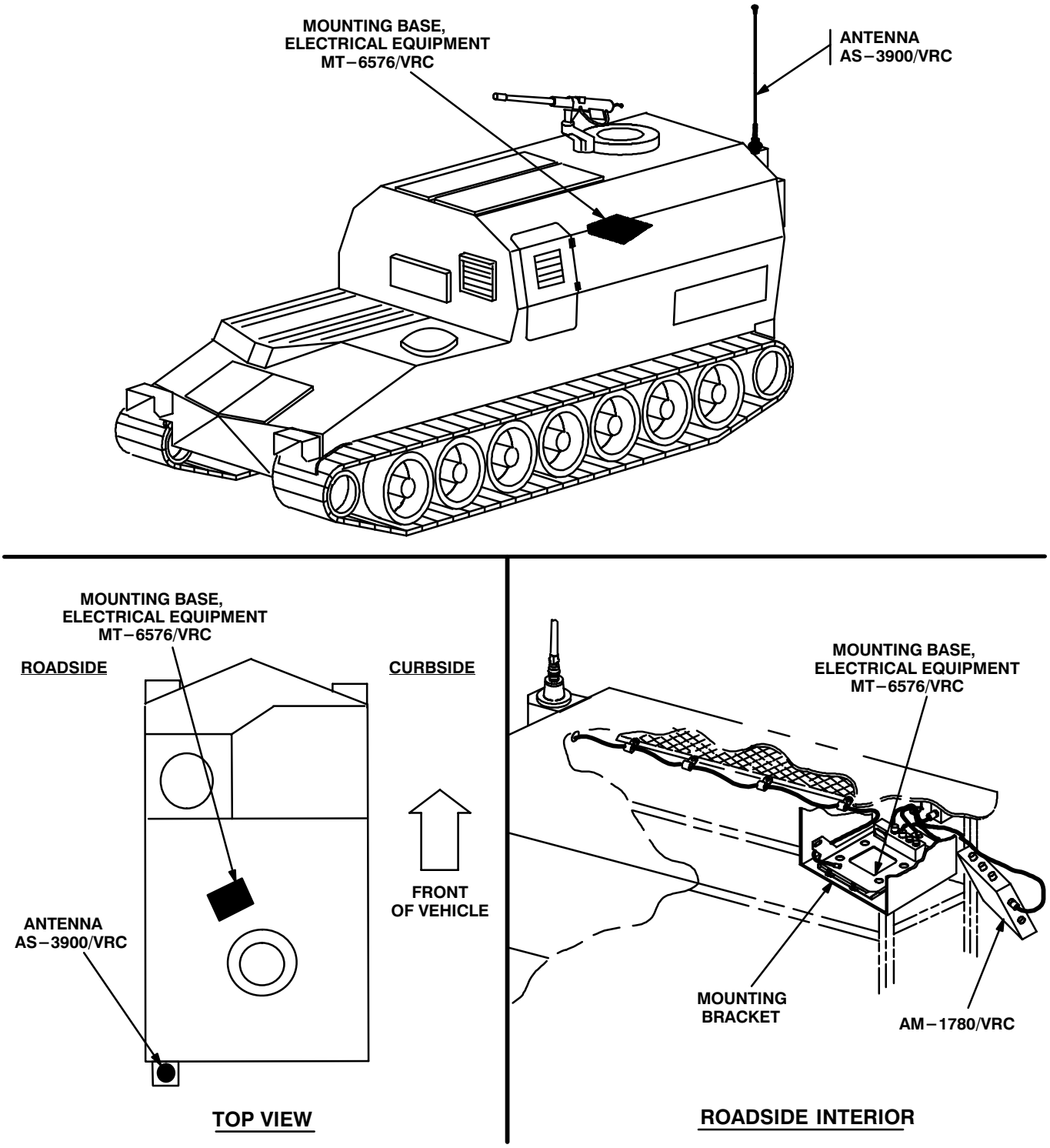
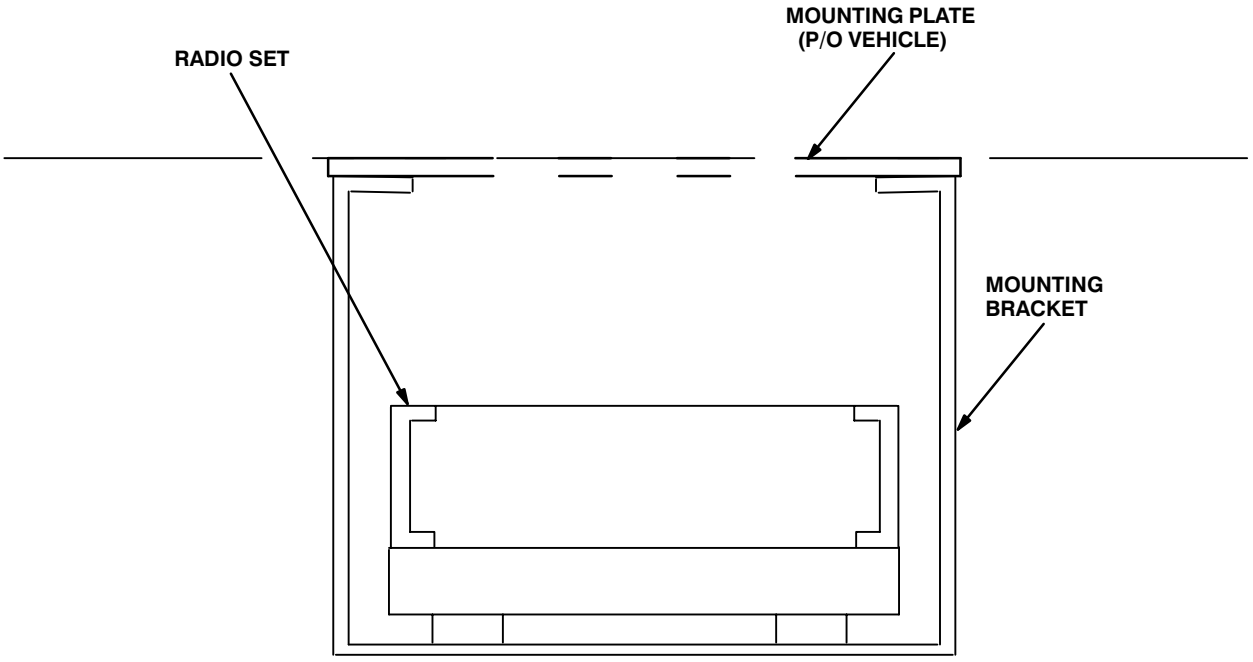


Figure 5−1 (1). MK and Radio Installation: MK Equipment Locations

5. INSTALLATION PROCEDURES. Continued



ROADSIDE CEILING

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

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

5.1.1 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. Holes for antenna bracket (1) and RF cable.	Using dimension shown and antenna bracket as a template, drill six size 1 (.228 in) diameter holes in wall (3/4 in deep) and one 5/8 diameter hole through wall. See figure 5−2 (1).	Tools: Electric drill, size 1 drill bit and 5/8 in drill bit.
b. Antenna bracket (1).	Place against rear wall and aline mounting holes.	
c. Five hex-head tapping screws (3) and five internal/external−toothed (IET) washers (2).	Install and secure to all mounting holes except bottom left hole in antenna bracket (1) and rear wall.	Tools: 3/8 in socket.

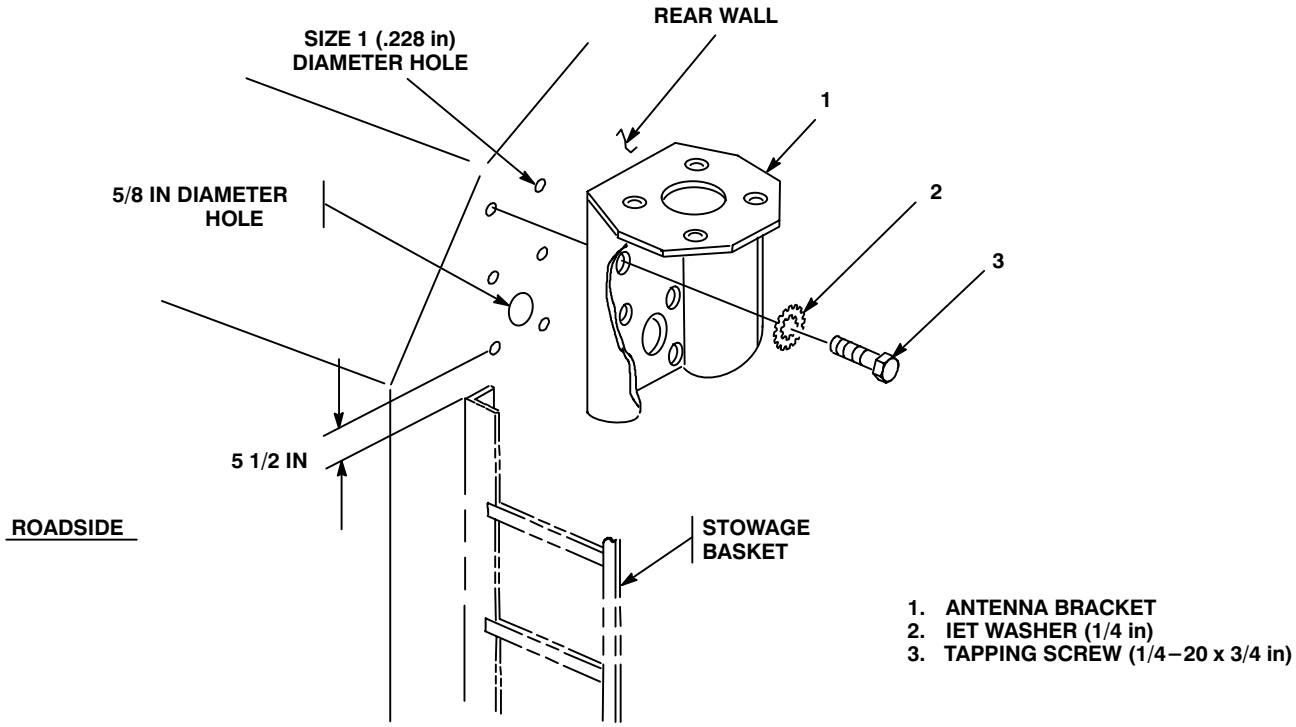
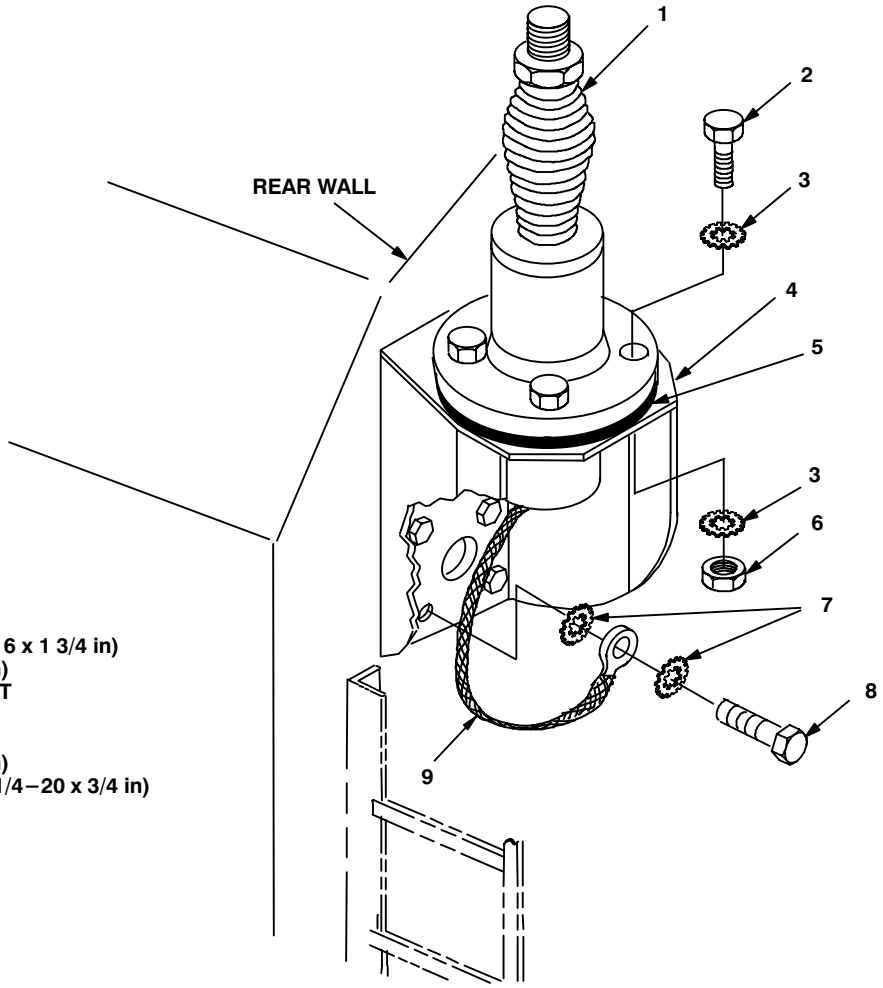


Figure 5−2 (1). Antenna Base Installation: Installing Antenna Bracket

5.1.1 Installation of Antenna Base. Continued

ITEM	ACTION	REMARKS
d. Gasket (5).	Place on antenna bracket (4) and aline mounting holes. See figure 5−2 (2).	
e. Antenna base (1).	Place on top of gasket (5) and antenna bracket (4); then aline mounting holes.	
f. Four cap screws (2), eight IET washers (3) and four nuts (6).	Install and secure to antenna base (1) and antenna bracket (4).	Tools: 9/16 in socket and 9/16 in open/box wrench.
g. Ground strap (9), hex-head tapping screw (8) and two IET washers (7).	Install and secure to bottom left hole in antenna bracket (4) and rear wall.	Tools: 3/8 in socket.

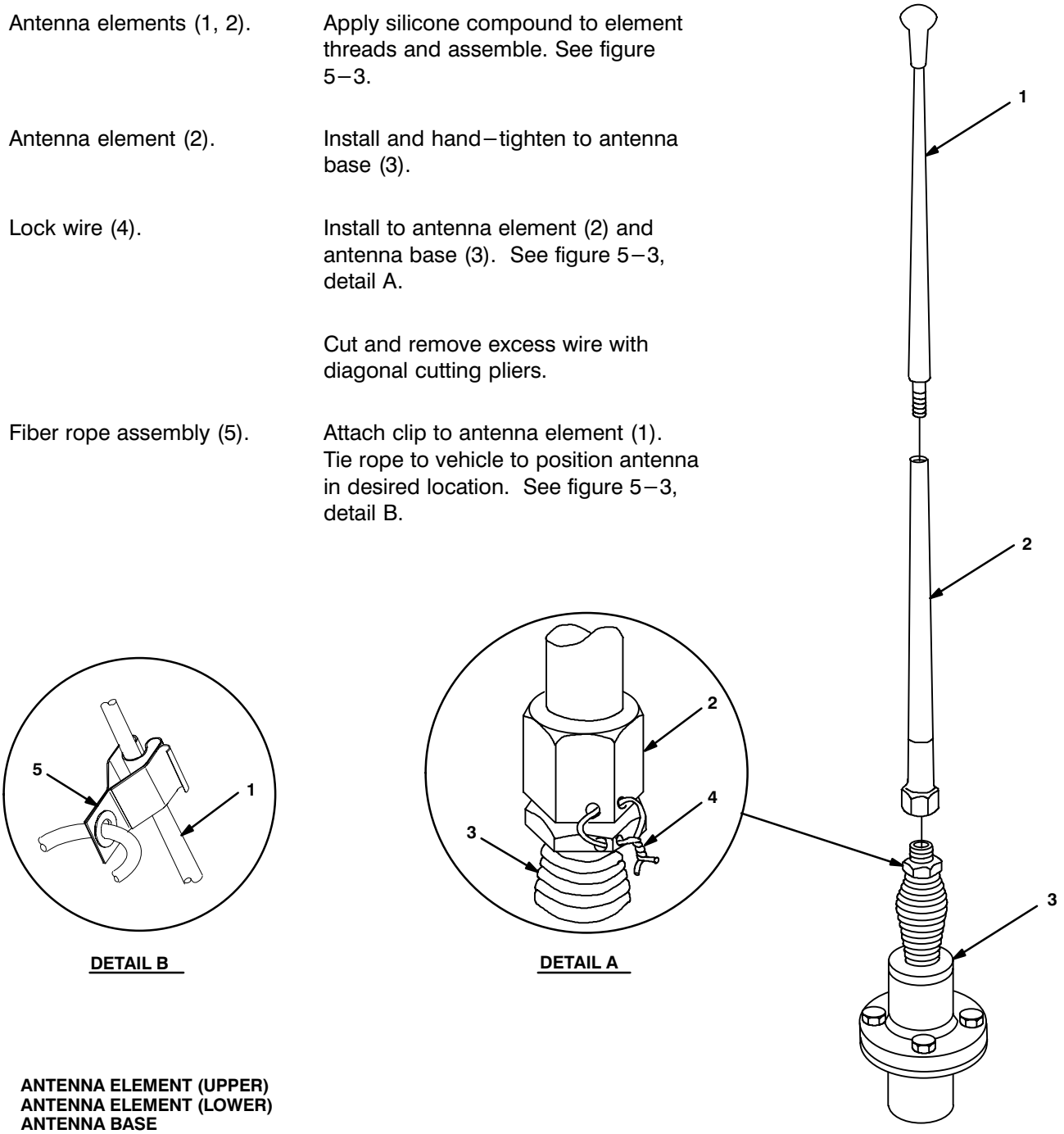


1. ANTENNA BASE
2. CAP SCREW (3/8−16 x 1 3/4 in)
3. IET WASHER (3/8 in)
4. ANTENNA BRACKET
5. GASKET
6. NUT (3/8−16 in)
7. IET WASHER (1/4 in)
8. TAPPING SCREW (1/4−20 x 3/4 in)
9. GROUND STRAP

Figure 5−2 (2). Antenna Base Installation: Installing Antenna Base

5.1.2 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 5−3.	
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 5−3, 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 5−3, detail B.	



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

Figure 5−3. Top Antenna Assembly Installation

5.2 Installation of Mounting Base, Electrical Equipment MT−6576/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 bracket should be removed before installing the mounting base. See figure 5−4 and perform the following steps.

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. Multiple angle bracket (3) and existing mounting plate.	Remove a 1” square area of paint around six existing mounting holes in multiple angle bracket (3) Remove a 1” square area of paint on the underside of existing mounting plate around six existing mounting holes that mate with mounting holes of multiple angle bracket (3). Clean the paint removed area and apply a thin coat of conductive anti−seize compound.	Tools: Electric grinder or equivalent.
b. Multiple angle bracket (3).	Position under mounting plate (near AM−1780/VRC) and align mounting holes. See Figure 5−4(1).	
c. Six machine bolts (1) and six internal/external−toothed (IET) washers (2).	Install and secure to multiple angle bracket (3) and mounting plate.	Tools: 1/2 in socket.

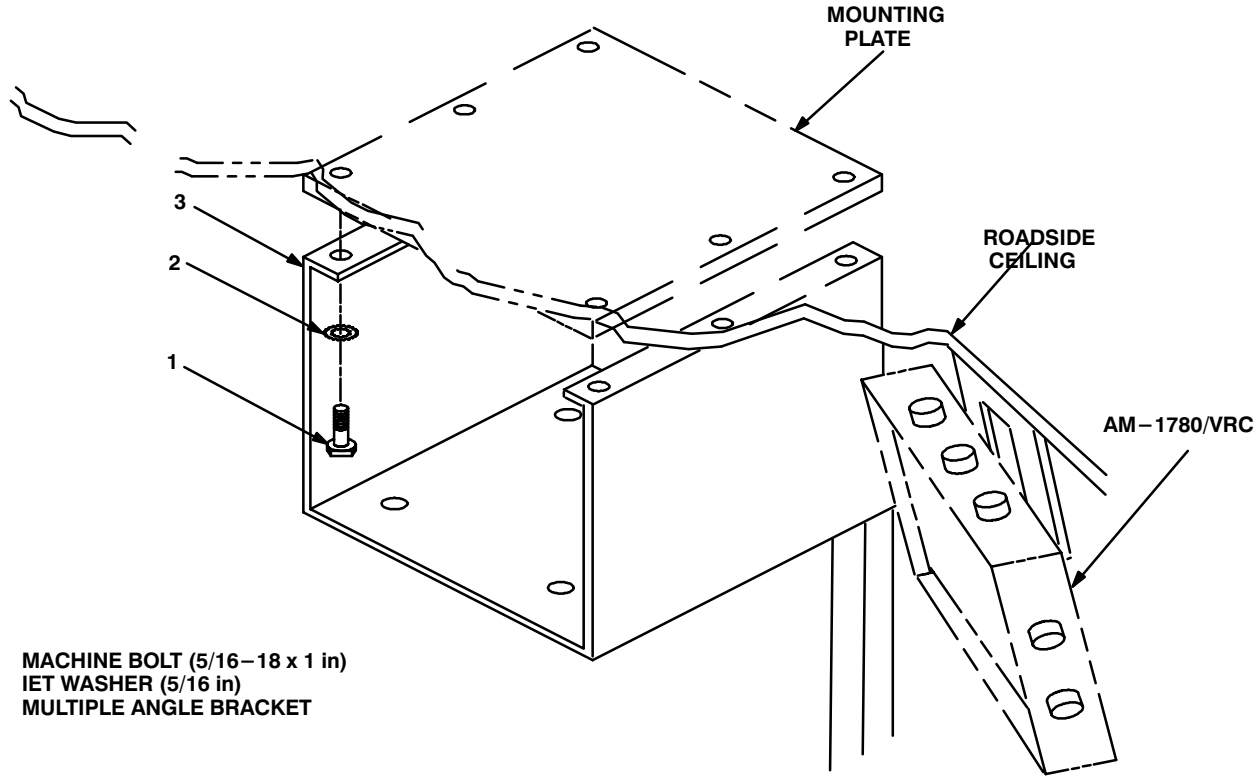


Figure 5−4 (1). Mounting Base Installation: Installing Multiple Angle Bracket

5.2 Installation of Mounting Base, Electrical Equipment MT−6576/VRC (mounting base). Continued

ITEM	ACTION	REMARKS
d. Mounting base (1) and multiple angle bracket (2).	Remove a 2” square area of paint on the underside of mounting base (1) around four mounting holes. Remove a 2” square area of paint on multiple angle bracket (2) around the existing mounting holes that mate with 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.
e. Mounting base (1).	Place on multiple angle bracketf (2) and align mounting holes. See Figure 5−4 (2).	
f. Four cap screws (3), eight internal/external−toothed (IET) washers (4) and four nuts (5).	Install and secure to mounting base (1) and multiple angle bracket (2).	Tools: 1/2 in socket and 1/2 in open/box wrench.

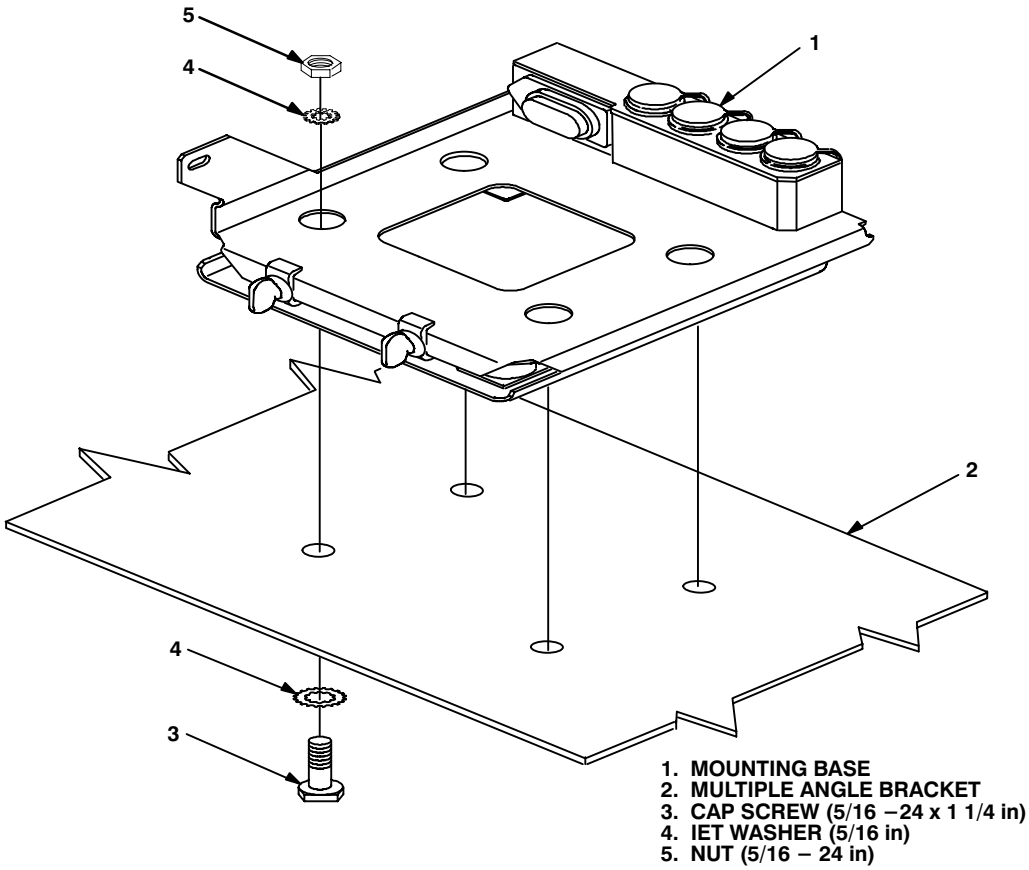


Figure 5−4 (2). Mounting Base Installation: Installing Mounting Base

5.3 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 vehicle power source is positioned OFF or disconnected before installing cables.

ITEM	ACTION	REMARKS
a. RF cable (4) connector P1.	From inside vehicle, insert through cable hole in rear wall and antenna bracket (2); then connect and secure to antenna base (1) connector J1. See figure 5−5.	

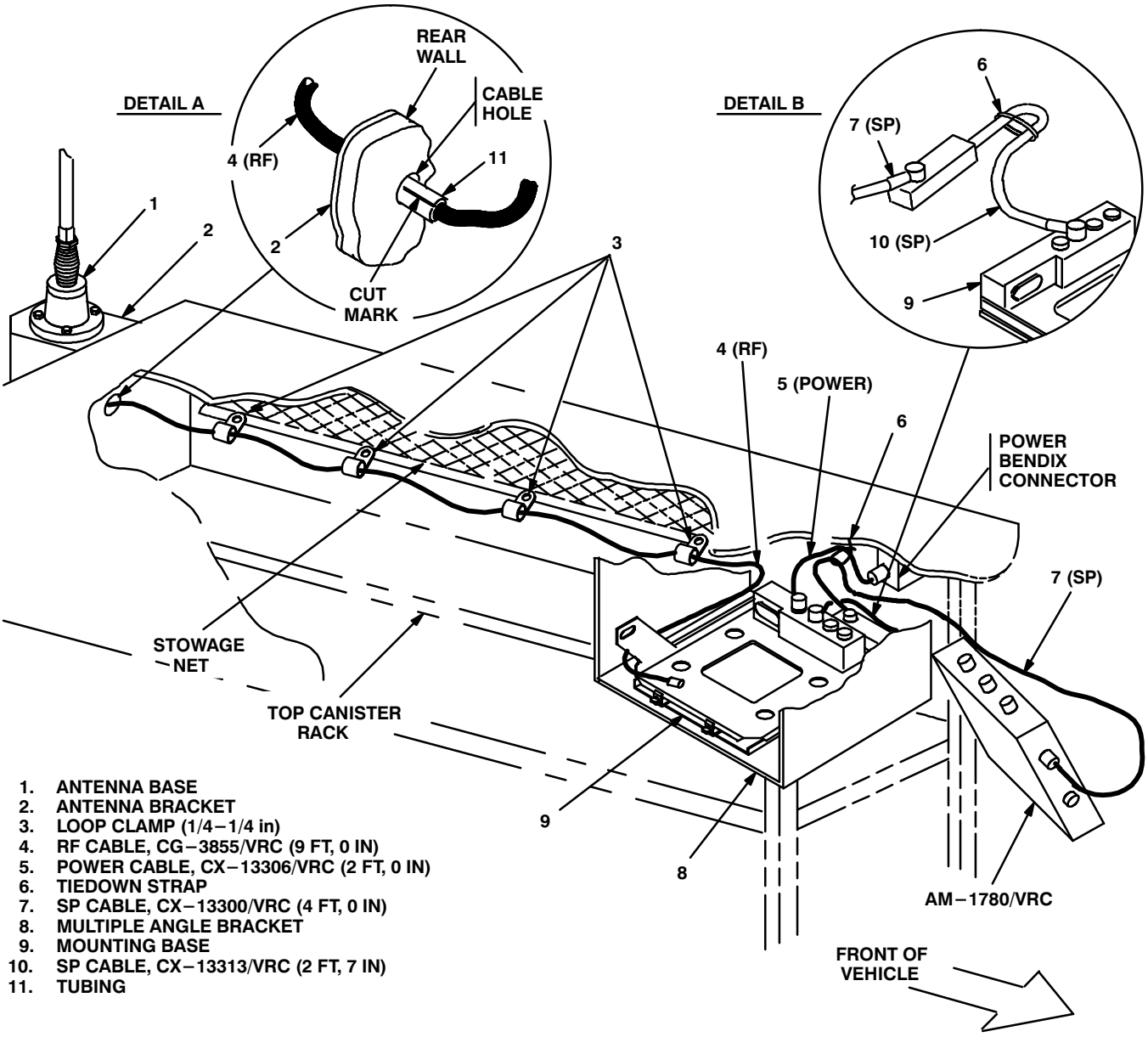


Figure 5−5. Cable Installation: RF Cabling

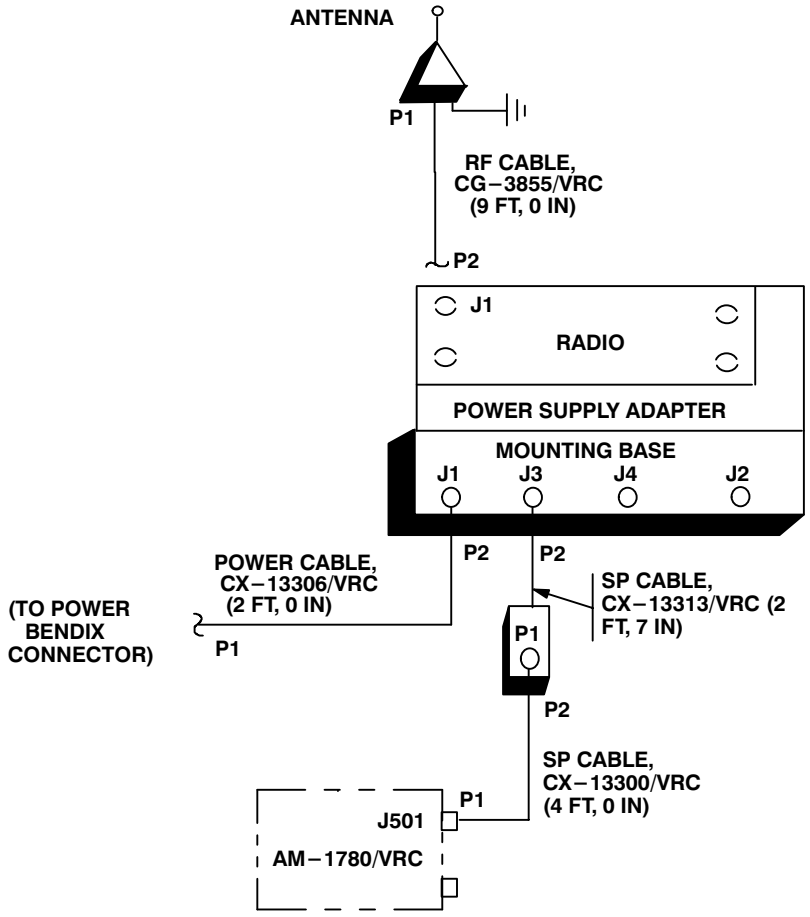
5.3 Installation of Cables. Continued

ITEM	ACTION	REMARKS
b. RF cable (4).	Route across top canister rack (below stowage net) to rear left side of multiple angle bracket (8). See figure 5−5.	
c. Tubing (11).	Cut to approximate length of rear wall and antenna bracket (2) thickness; then cut through mark shown. See figure 5−5, detail A. Wrap around RF cable (4) and insert in cable hole.	Tools: Pocket knife.
d. Four loop clamps (3) and existing mounting hardware.	Wrap clamps around RF cable (4); then install to bottom edge of stowage net spaced evenly apart. See figure 5−5.	
e. RF cable (4) connector P2.	Position on top of mounting base (9).	
f. SP cable (7) connector P1.	Connect and secure to AM−1780/VRC connector J501.	
g. SP cable (7) connector P2.	Connect and secure to SP cable (10) connector P1. See figure 5−5, detail B.	
h. SP cable (10) connector P2.	Connect and secure to mounting base (9) connector J3.	
i. Tiedown strap (6).	Wrap around and secure to SP cable (10) behind mounting base (9).	
j. Power cable (5) connector P1.	Connect and secure to power Bendix connector. See figure 5−5.	
k. Power cable (5) connector P2.	Position on mounting base (9).	
l. Tiedown strap (6).	Wrap around SP cable (7) and power cable (5), then secure.	
m. Adhesive-sealant.	Apply to and around cable hole in rear wall and antenna bracket (2).	
n. Power cable (5) connector P2.	Connect and secure to mounting base (9) connector J1.	

5.4 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 5−6 for cable connections. Unused cables should be stowed in appropriate place inside the vehicle.	
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 vehicle.	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.	

5.4 Post−Installation and Checkout. Continued



CABLE ASSEMBLY	FROM			TO		
	CABLE CONN.	UNIT	UNIT CONN.	CABLE CONN.	UNIT	UNIT CONN.
CX−13306/VRC (2 FT, 0 IN)	P2	Mounting base	J1	P1	Power Bendix connector	
CX−13313/VRC (2 FT, 7 IN)	P2	Mounting base	J3	P1	CX−13300/VRC (4 FT, 0 IN)	P2
CX−13300/VRC (4 FT, 0 IN)	P2	CX−13313/VRC (2 FT, 7 IN)	P1	P1	AM−1780/VRC	J501
CG−3855/VRC (9 FT, 0 IN)	P1	Antenna base	J1	P2	Radio	J1

Figure 5−6. Cable Diagram: For AN/VRC−87/88C Series

APPENDIX A

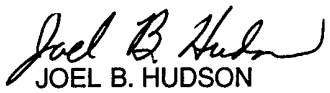
REFERENCES

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:

ERIC K. SHINSEKI
General, United States Army
Chief of Staff

Official:



JOEL B. HUDSON
Administrative Assistant to the
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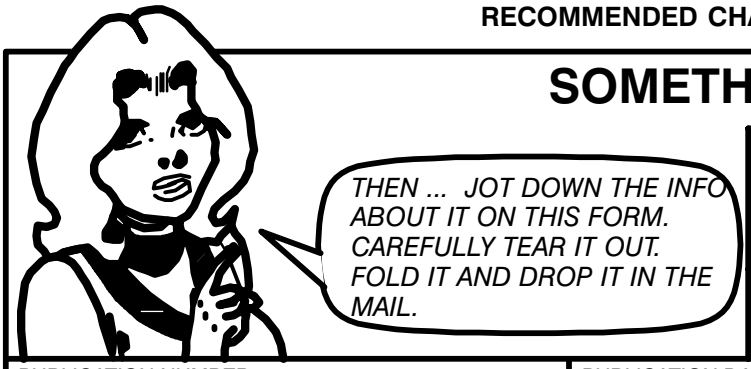

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TM 11–5840–340–12	23 Jan 74	Radar Set AN/PRC–76

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PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
2–25	2–28			Recommend that the installation antenna alignment procedure be changed throughout to specify a 20 IFF antenna lag rather than 10 REASON: Experience has shown th[illegible]th only a 10 lag, the antenna servo system is too sensitive to [illegible]gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, caus[illegible] strain to the drive train. Hunting is minimized by adjusting th[illegible] to 20 without degradation of operation.
3–10	3–3		3–1	Item 5, Fu[illegible]ctional co[illegible]n. Change ☐ 2 dB" to ☐ 3 dB". REA[illegible]djustment procedure for the TRANS POWER FAULT [illegible]r call for a 3 dB (500 watts) adjustment to light the TRA[illegible]POWER FAULT indicator.
5–6	5–8			A[illegible]d new step f.1 to read, ☐ Replace cover plate removed in step d above." REASON: To replace the cover plate.
		FO–3		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.

SAMPLE

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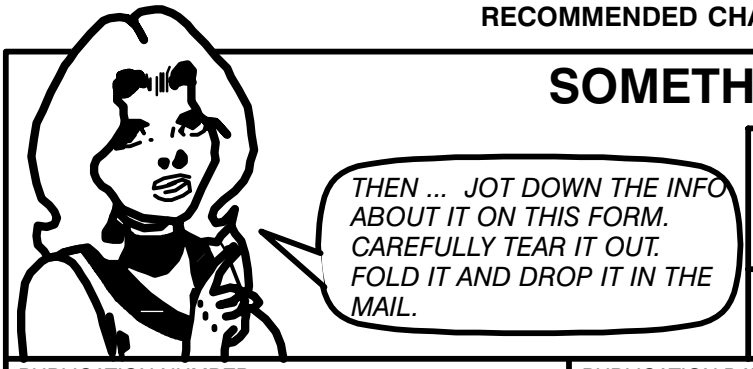

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