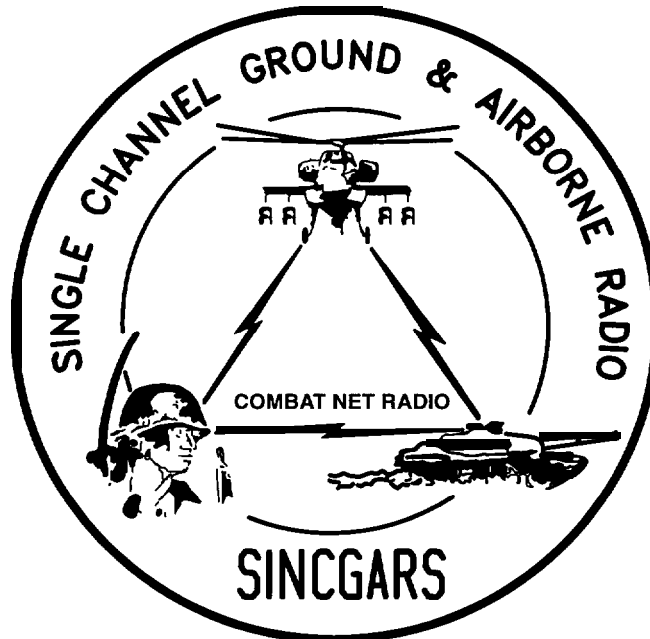


TECHNICAL BULLETIN



**INSTALLATION INSTRUCTIONS FOR
INSTALLATION KIT,
ELECTRONIC EQUIPMENT MK-2385/VRC
(NSN 5895-01-225-0519) (EIC: N/A)
TO PERMIT INSTALLATION OF RADIO SET
AN/VRC-87/88/90 SERIES
INTO
RECOVERY VEHICLE, FULL TRACKED: LIGHT,
ARMORED M578**

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HEADQUARTERS, DEPARTMENT OF THE ARMY

1 AUGUST 1999

**INSTALLATION INSTRUCTIONS FOR
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M578**

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 11-5820-890-20-64, dated 1 September 1993.

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0.1 SCOPE.

This technical bulletin provides Installation Instructions for Installation kit, Electronic Equipment MK-2385/VRC, commonly referred to as the Mounting Kit (MK). The MK shall be installed into the following type of vehicle(s):

- Recovery Vehicle, Full Tracked: Light, Armored M578

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 11-5820-890-20-4 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-2385/VRC (MK) contains the items needed to mount Radio Set: AN/VRC-87/88/90 series in a Recovery Vehicle, Full Tracked: Light, Armored M578 (vehicle).

2. END ITEM OR SYSTEM TO BE MODIFIED.

Not applicable.

3. APPLICATION TIMES.

3.1 Time for Completion of Installation. Using one person, a total of 5.0 work hours is required. Typical vehicle downtime is 5.5 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 vehicle downtime.

ITEM	SECTION	TIME
Mounting Base, Electrical Equipment MT-6352/VRC	5.2	1.5
Cables	5.3	1.0
Antenna AS-3916/VRC	5.1	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 9-2320-280-20.

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-87/88/90 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.
5985-01-353-4943	Antenna, Vehicular AS-3916/VRC (A3207487-1)	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 (Not Used)	4	PAOZZA	
5310-00-061-1258	Washer, Lock, Internal/External-Toothed (3/8 in) MS45904-76 (4 Not Used)	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) (Not Used)	1	PAOZZA	
4010-01-381-1521	Wire Rope Assembly	1	PAOZZA	
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 (1 Not Used)	5	PAOZZA	
5310-00-889-2527	Washer, Lock, Internal/External-Toothed (5/16 in) MS45904-72 (2 Not Used)	10	PAOZZA	
5310-00-880-7746	Nut, Hexagon (5/16-24 in) MS51968-5 (1 Not Used)	5	PAOZZA	
5995-01-219-1848	Cable Assembly, Power, Electrical CX-13306/VRC (2 FT, 0 IN) (A3014043-1)	1	PAOZZA	4-1, 5
5995-01-219-7030	Cable Assembly, Radio Frequency CG-3855/VRC (7 FT, 0 IN) (A3014031-3)	1	PAOZZA	4-1, 3
5995-01-225-0506	Cable Assembly, Special Purpose, Electrical CX-13300/VRC (8 FT, 0 IN) (A3014044-8)	1	PAOZZA	4-1, 4
5995-01-303-4951	Cable Assembly, Special Purpose, Electrical CX-13313/VRC (2 FT, 7 IN) (A3018360-1)	1	PAOZZA	4-1, 6
5340-00-088-1254	Clamp, Loop (5/8-1/4 in) MS21333-104	1	PAOZZA	
5340-00-809-1500	Clamp, Loop (1-1/4 in) MS21333-107	9	PAOZZA	
5310-00-768-0319	Nut, Hexagon (1/4-28 in) MS51968-2	1	PAOZZA	
5305-00-068-0506	Screw, Cap, Hexagon (1/4-28 x 3/4 in) MS90726-6	10	PAOZZA	
5975-00-111-3208	Strap, Tiedown, Electrical Components MS3367-5-9	5	PAOZZA	
5310-00-582-5965	Washer, Lock (1/4 in) MS35338-44	10	PAOZZA	

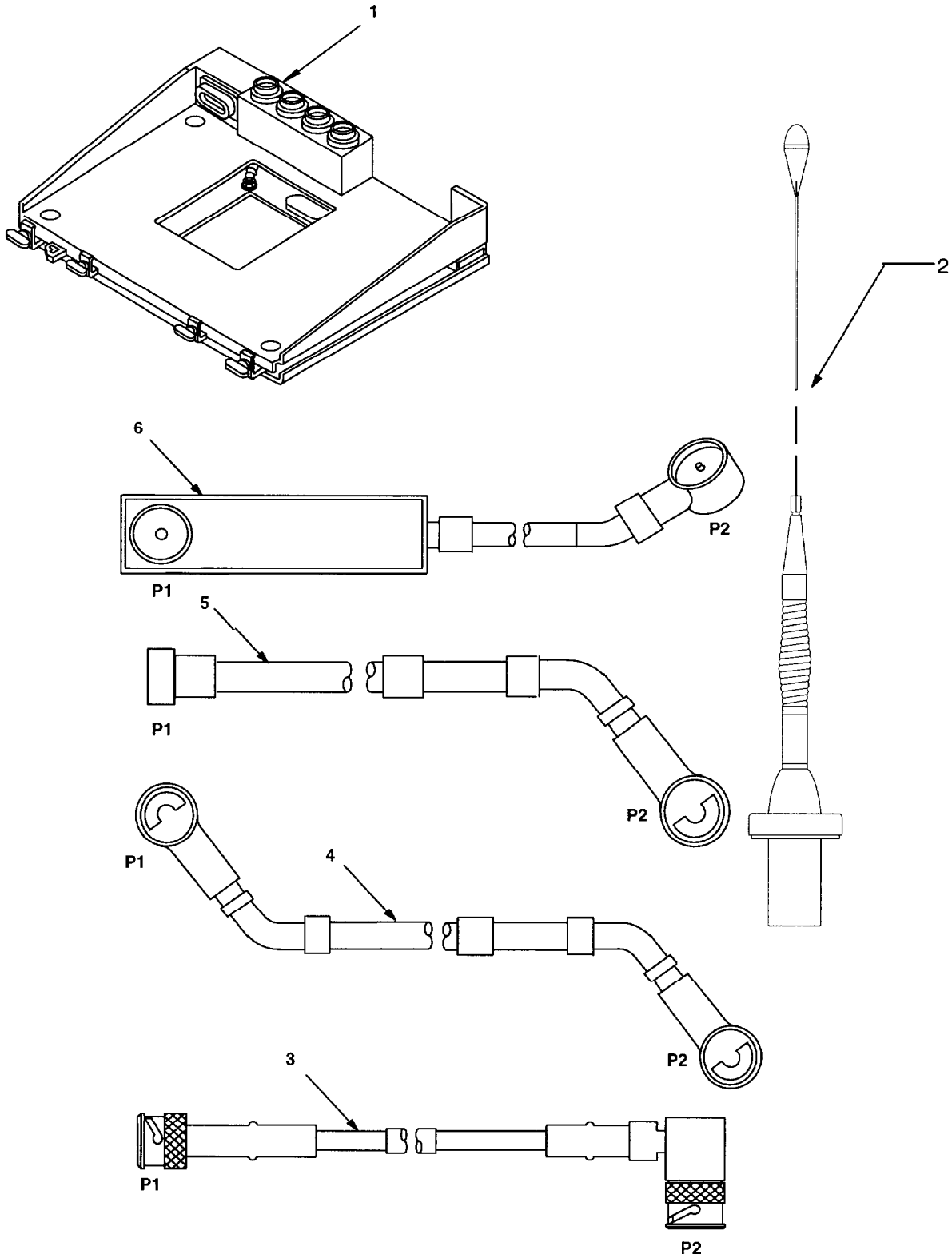


Figure 4-1. MK Illustrated Parts List

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 of 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: 7/16 in	5120-00-228-9505	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

* 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.

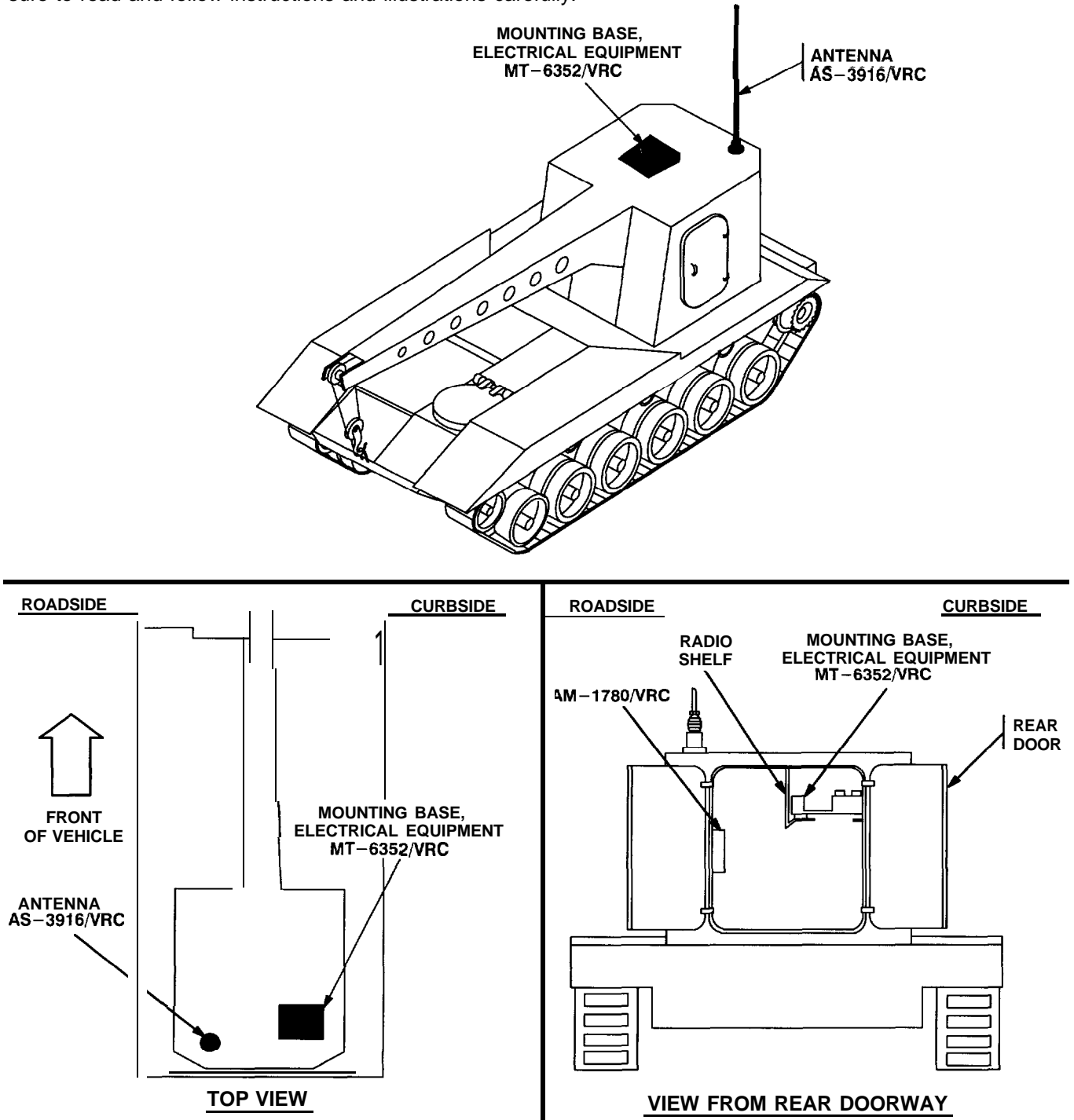


Figure 5-1(1). MK and Radio Installation: MK Equipment Locations

5. INSTALLATION PROCEDURES. Continued.

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

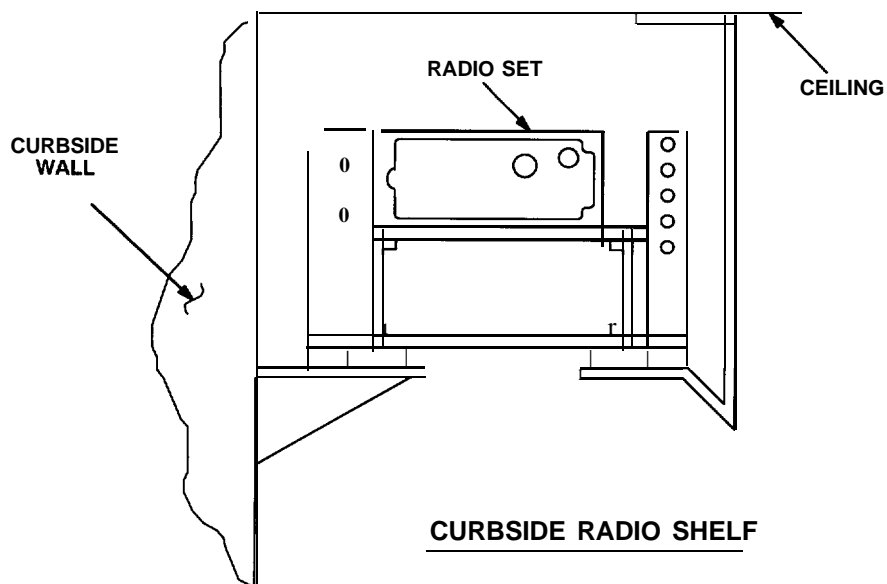


Figure 5-1(2). MK and Radio Installation: Radio Equipment Locations

5.1 Installation of Antenna, Vehicular AS-3916/VRC (antenna).

5.1.1 Installation of Antenna Base. Use the following procedures to install antenna base. See figure 5-1(1) for location. Remove ground strap from antenna base(s).

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. Existing antenna port.	Remove the paint (1" strip) for 360° centered around the four mounting holes. Clean the paint removed area and apply a thin coat of conductive anti-seize compound (CASC).	
b. Antenna base (3).	Place on top of antenna port; then align mounting holes.	
c. Four cap screws (1) and four internal/external-toothed (IET) washers (2).	Install and secure to antenna base (3) and antenna port.	Tools: 9/16 in socket.
d. Antenna base (3) and antenna port.	Apply a bead of adhesive-sealant/silicon compound 360° around the seam between antenna base (3) and antenna port.	Tools: 1/2 in socket.

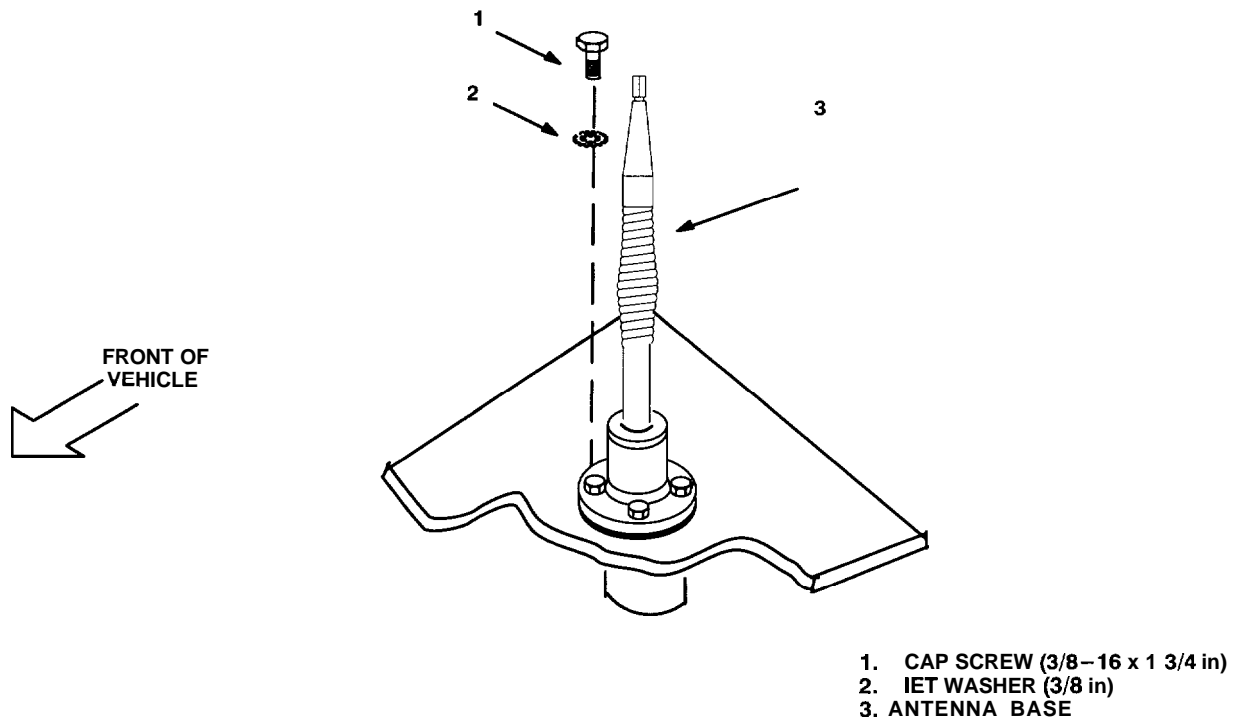


Figure 5-2. Antenna Base Installation: Rear Roadside Antenna Port

5.1.2 Installation of Top Antenna Assembly. The top portion of the antenna consists of one element (with installed cap). Use the following procedure to install and tie down antenna.

ITEM	ACTION	REMARKS
a. Antenna elements (1).	Install and secure to antenna base (2).	
b. Wire rope assembly (3).	Attach clip to antenna element (1). Tie rope to vehicle to position antenna in desired location. See Figure 5-3, Detail A.	

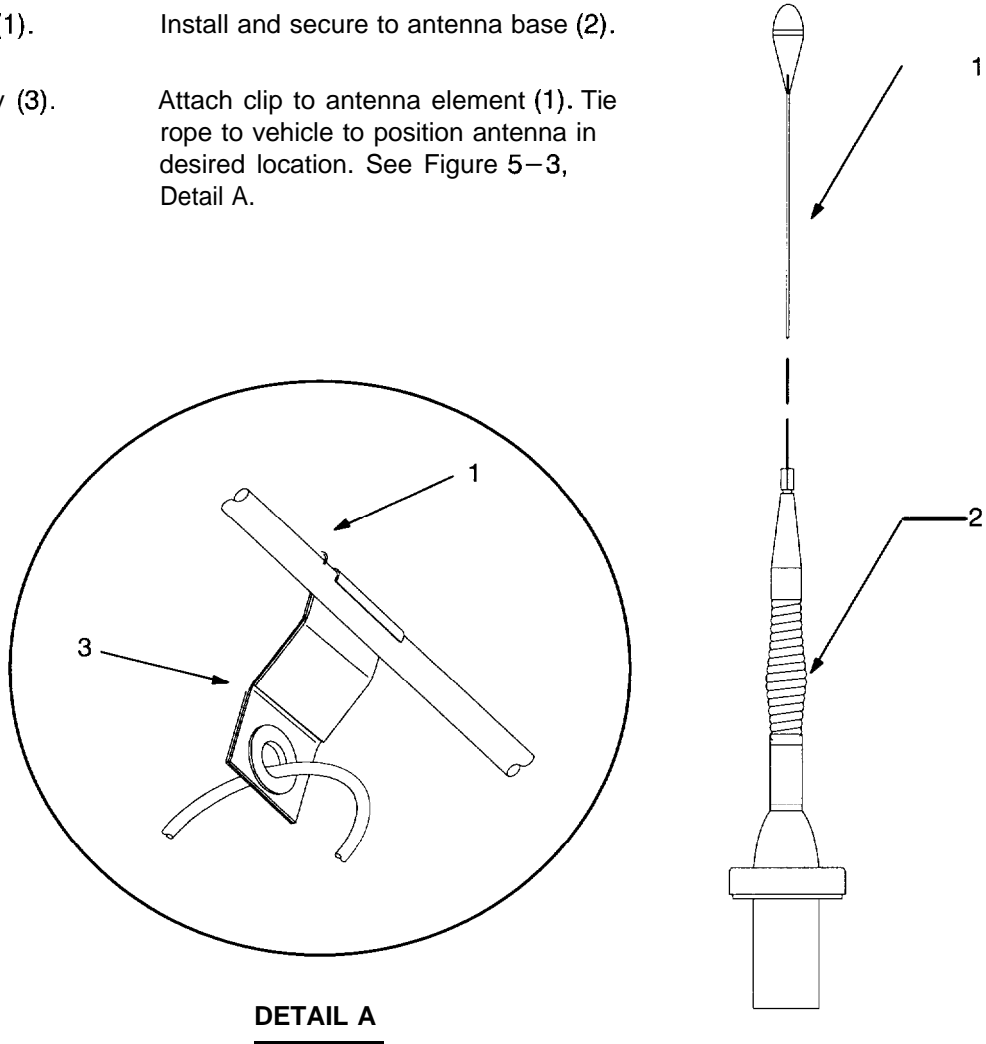


Figure 5-3. Top Antenna Assembly Installation

5.2 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 radio shelf 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. Mounting base (1) and existing radio shelf.	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 radio shelf around the existing mounting holes that mate with left front and rear mounting base (1). Clean the paint removed areas and apply a thin coat of CASC.	Tools: Electric grinder or equivalent.
b. Mounting base (1).	Place on existing radio shelf over existing holes. See Figure 5-4.	
c. Two outer thumbscrews (4).	Turn ccw until both sets of threads have cleared center of holes.	
d. Mounting base (1).	Align four holes with matching hole pattern in shelf.	
e. Four machine bolts (6) four internal/external-toothed (IET) washers (3) and four nuts (2).	Install and secure to mounting base (1) and shelf.	Tools: 1/2 in socket and 1/2 in open/box wrench.
f. Two outer thumbscrews (4)	Tighten and secure to rim clenching clamps (5) and mounting base (1).	

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

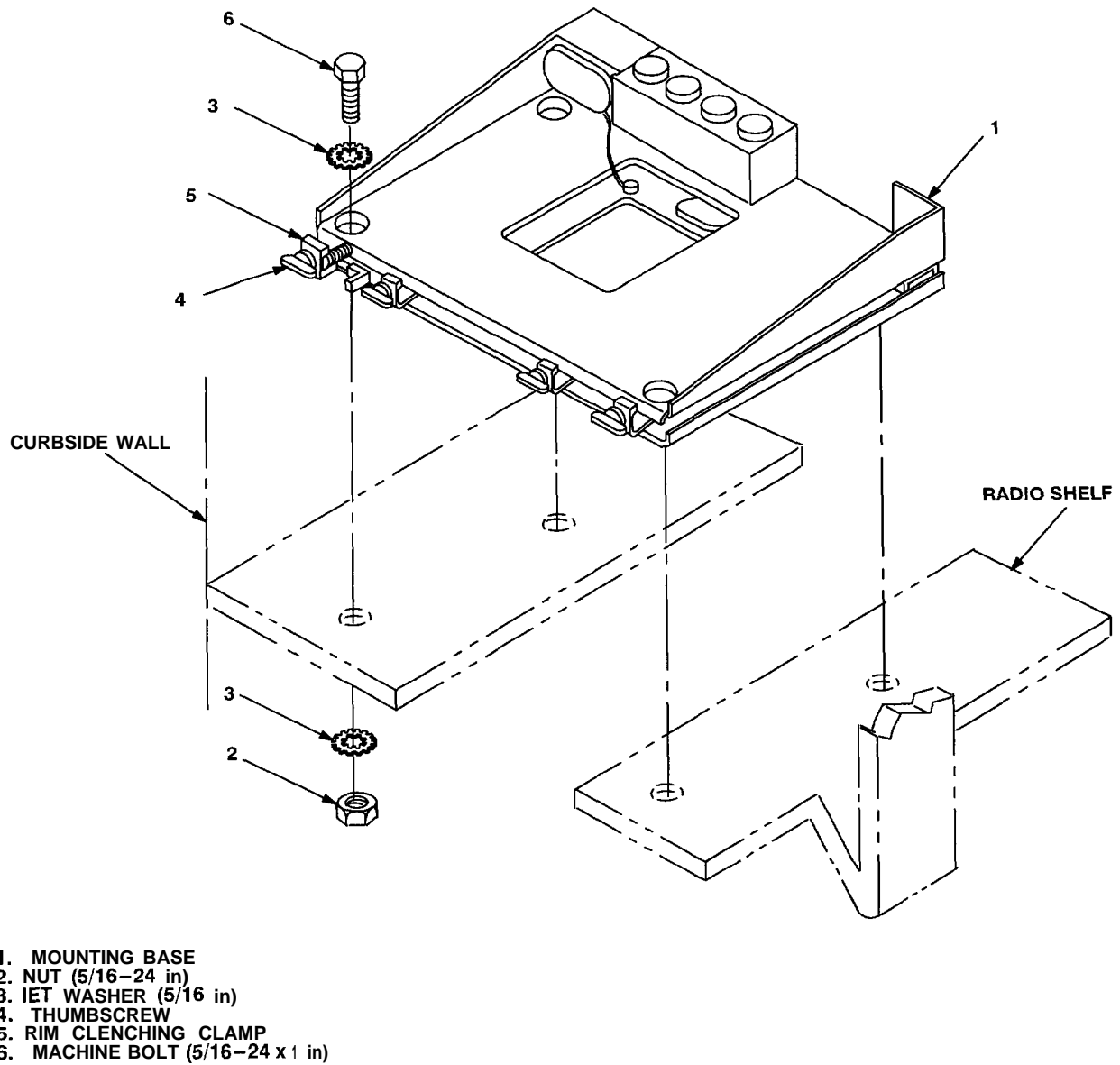


Figure 5-4. Mounting Base Installation

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.

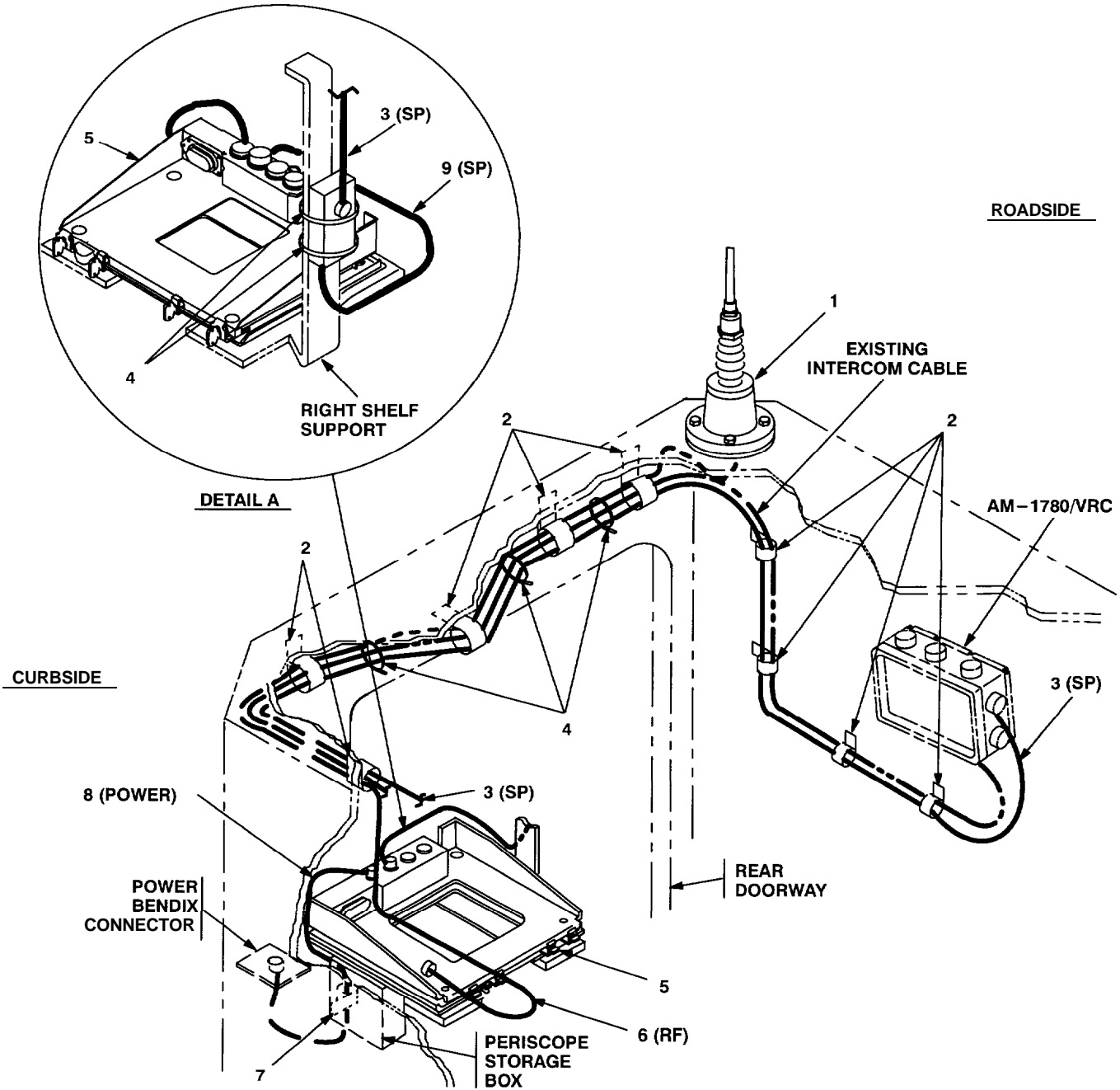
WARNING

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

ITEM	ACTION	REMARKS
a. SP cable (3) connector P1.	Connect and secure to AM - 1780/VRC connector J501. See figure 5-5.	
b. SP cable (3).	Route along roadside wall with existing intercom cable to rear doorway.	
c. Four loop clamps (2), four hex- head cap screws (1/4-28 x 3/4 in) and four lock washers (1/4 in).	Wrap clamps around SP cable (3) and existing intercom cable; then install to existing bosses on roadside wall. See figure 5-5 for location(s).	Tools: 7/16 in socket.
d. RF cable (6) connector P1.	Connect and secure to antenna base (1) connector J1. See figure 5-5.	
e. RF cable (6) and SP cable (3).	Route along rear wall (above rear doorway) with existing intercom cable to curbside wall.	
f. Four loop clamps (2), four hex- head cap screws (1/4-28 x 3/4 in) and four lock washers (1/4 in).	Wrap clamps around RF cable (6), SP cable (3) and existing intercom cable; then install to existing bosses on rear wall and ceiling. See figure 5-5 for location(s).	Tools: 7/16 in socket.
g. Three tiedown straps (4).	Install loosely around RF cable (6), SP cable (3) and existing intercom cable.	
h. Loop clamp (2), hex-head cap screw (1/4-28 x 3/4 in) and lock washer (1/4 in).	Wrap clamps around RF cable (2) and existing intercom cable to existing boss on curbside wall.	Tools: 7/16 in socket.
i. RF cable (6) connector P2.	Position on top of mounting base (5). See figure 5-5.	
j. SP cable (9) connector P2.	Connect and secure to mounting base (5) connector J3. See figure 5-5, detail A.	
k. SP cable (3) connector P2.	Connect and secure to SP cable (9) connector P1.	
l. SP cable (9) connector. P1.	Place against right shelf support; then secure with two tiedown straps (4). See figure 5-5.	
m. Power cable (8) connector P1.	Connect and secure to power Bendix connector.	
n. Power cable (8) connector P2.	Position on top of mounting base (5).	
o. Periscope.	Temporarily remove from periscope storage box.	

5.3 Installation of Cables. Continued

ROADSIDE



- | | |
|--|---|
| <ol style="list-style-type: none"> 1. ANTENNBASE 2. LOOP CLAMP (1-1/4 in)
CAP SCREW (1/4-28 x 3/4 in)
LOCK WASHER (1/4 in) 3. SP CABLE, CX-13300/VRC (8 FT, 0 IN) 4. TIEDOWN STRAP 5. MOUNTING BASE | <ol style="list-style-type: none"> 6. RF CABLE, CG-3855/VRC (7 FT, 0 IN) 7. LOOP CLAMP (5/8-1/4 in)
CAP SCREW (1/4-28 x 3/4 in)
LOCK WASHER (1/4 in)
NUT (1/4-28 in) 8. POWER CABLE, CX-13306/VRC (2 FT, 0 IN) 9. SP CABLE, CX-13313/VRC (2 FT, 7 IN) |
|--|---|

Figure 5-5. Cable Installation: SP, RF and Power Cabling

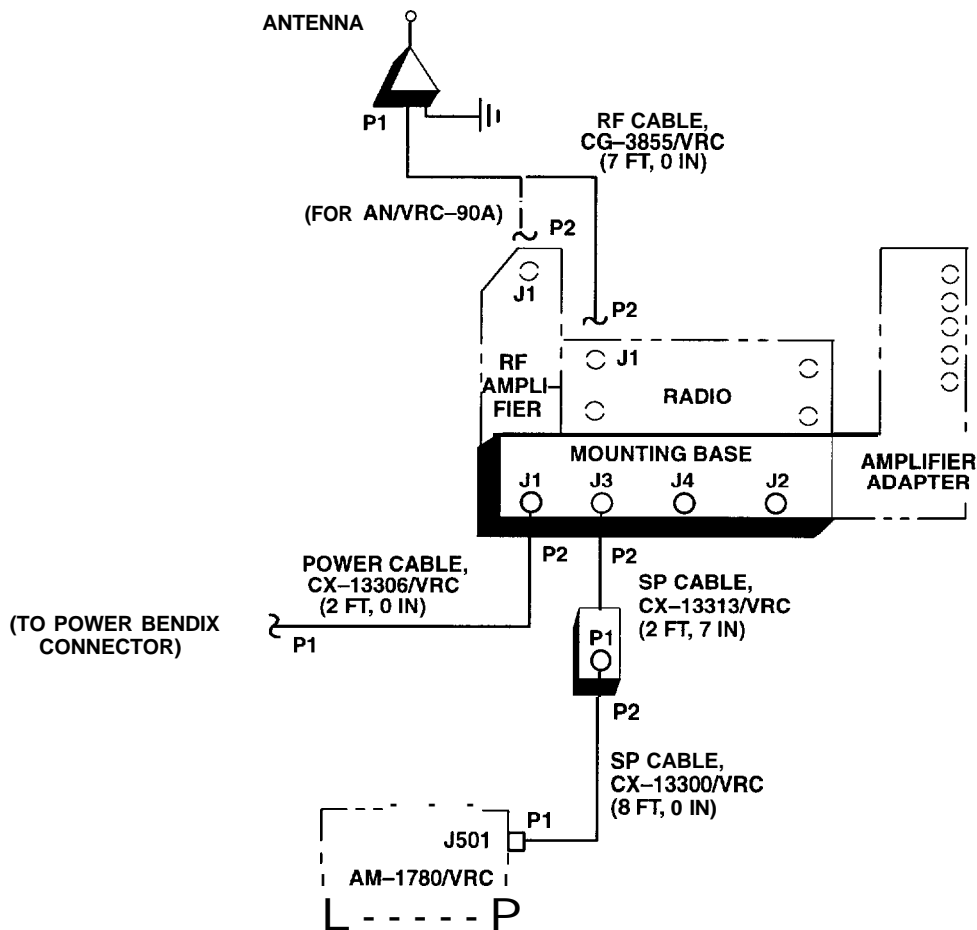
5.3 Installation of Cables. Continued

ITEM	ACTION	REMARKS
p. Loop clamp (7), hex-head cap screw (1/4-28 x 3/4 in), lock washer (1/4 in) and nut (1/4-28 in).	Wrap clamp around power cable (8); then install to existing hole in rear surface to of periscope storage box. See figure 5-5 for location(s).	Tools: 7/16 in socket and 7/16 in open/box wrench.
q. Periscope (removed in step o).	Return to storage box. See figure 5-5.	
r. Power cable (8) connector P2.	Connect and secure to mounting base (5) 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 11-5820-890-20-4 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-13300/VRC (8 FT, 0 IN)	P2	CX-13313/VRC (2 FT, 7 IN)	P1	P1	AM-1780/VRC	J501
CX-13313/VRC (2 FT, 7 IN)	P1	CX-13300/VRC (8 FT, 0 IN)	P2	P2	Mounting base	J3
CG-3855/VRC (7 FT, 0 IN)	P1	Antenna base	J1	P2	RF amplifier or radio	J1

Figure 5-6. Cable Diagram: For AN/VRC-87/88/90 Series

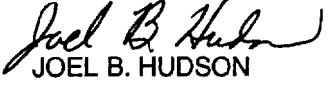
APPENDIX A

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 11-5820-890-1 O-I	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, Vol.1)
TM 11-5820-890-20-2	Unit Maintenance Manual (ICOM Radio Sets, Vol. 2)
TM 11-5820-890-20-3	Unit Maintenance Manual Handbook (ICOM Radio Sets)
TM 11-5820-890-20-4	Unit Maintenance Manual (Non-ICOM Radio Sets)
TM 11-5820-890-20P	Repair Parts and Special Tools List

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 17 July 1975

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 Radar Set AN/PRC-76

TEAR ALONG DOTTED LINE

BE EXACT PIN-POINT WHERE				IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
PAGE NO	PARA GRAPH	FIGURE NO	TABLE NO	
2-25	2-28			<p>Recommend that the installation antenna alignment procedure be changed throughout to specify a 20 IFF antenna lag rather than 10.</p> <p>REASON: Experience has shown that with only a 10 lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing stress to the drive train. Hunting is minimized by adjusting the lag to 20 without degradation of operation.</p>
3-10	3-3		3-1	<p>Item 5, Functional Test. Change $\square 2$ dB" to $\square 3$ dB".</p> <p>REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 dB (500 watts) adjustment to light the TRANS POWER FAULT indicator.</p>
5-6	5-8			<p>and new step f. 1 to read, \square Replace cover plate removed in step above."</p> <p>REASON: To replace the cover plate.</p>
		FO-3		<p>Zone C 3. On J 1-2, change $\square +24$ VDC" to $\square +5$ VDC".</p> <p>REASON: This is the output line of the 5 VDC power supply. +24 VDC is the input voltage.</p>

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SSG I. M. DeSpirito 999-1776

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