

# INSTALLATION INSTRUCTIONS FOR INSTALLATION KIT, ELECTRONIC EQUIPMENT, MK-2313/VRC (NSN 5895-01-216-9743) (EIC: N/A) TO PERMIT INSTALLATION OF RADIO SET AN/VRC-87/88/90 SERIES IN A TRUCK, CARGO, TACTICAL, 1 1/4 TON, 4x4, M1008A1

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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### INSTALLATION INSTRUCTIONS FOR INSTALLATION KIT, ELECTRONIC EQUIPMENT, MK-2313/VRC (NSN 5895-01-216-9743) (EIC: N/A) TO PERMIT INSTALLATION OF RADIO SET AN/VRC-87/88/90 SERIES IN A TRUCK, CARGO, TACTICAL, 1 1/4-TON, 4x4, M1008A1

#### **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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<sup>\*</sup>This manual supersedes TB 11–5820–890–20–24 dated 1 September 1993.

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### 0.1 SCOPE

This technical bulletin provides Installation Instructions for Installation Kit, Electronic Equipment, MK–2313/VRC, commonly referred to as the Mounting Kit (MK). The MK shall be installed into the following type of vehicle(s):

• Truck, Cargo, Tactical, 1 1/4 Ton, 4x4, M1008A1

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 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.

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-2313/VRC (MK) contains the items needed to mount Radio Set AN/VRC- 87/88/90 Series in a Truck, Cargo, Tactical, 1 1/4-ton, 4x4, M1008A1.

### 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 vehicle downtime is 3.0 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	0.5
Mounting Base, Electrical Equipment MT-6352/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 9-2320-289-20.

**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. Refer to Table 4–2 and figure 4–2 to identify additional items required to install for "D" Series Radio Sets.

#### 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.

NSN	ITEM DESCRIPTION AND PART NUMBER	QUANTITY IN MK	SMR CODE	FIGURE, ITEM NO.
5985-01-297-2971 5305-00-847-1159	Antenna AS-3900/VRC (A3017899-1) Screw, Cap, Hexagon (3/8-16 x 1 3/4 in) MS35307-365	1 4	PAOOFA PAOZZA	4-1, 2
5310-00-913-8881 5310-00-061-1258	Nut, Hexagon (3/8–16 in) MS51971–3 Washer, Lock, Internal/External–Toothed	4 8	Paozza Paozza	
5310-00-889-2527	(3/8 in) MS45904–76 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	PAOOFA	4-1, 1
5306-00-225-9089 5310-00-889-2527	Bolt, Machine (5/16-24 x 1 in) MS90726-34 Washer, Lock, Internal/External-Toothed	5 10	PAOZZA PAOZZA	
5310-00-880-7746	(5/16 in) MS45904-72 Nut, Hexagon (5/16 - 24 in) MS51968-5	5	PAOZZA	
5995-01-219-1848		1	PAOZZA	4-1, 7
	CX-13306/VRC (2 FT, 0 IN) (A3014043-1)		THOLE (	, ,
5995-01-219-7030	Cable Assembly, Radio Frequency CG-3855/VRC (7 FT, 0 IN) (A3014031-3)	1	PAOZZA	4–1, 8
	Bracket, Mounting (A3014549-1)	1	XBOZZA	4-1, 5
5340-00-809-1490		2	PAOZZA	
5340-00-809-1494 5340-00-400-0002	Clamp, Loop (3/4 - 1/4 in) MS21333-105 Clamp, Loop (1 1/4 - 1/4 in) MS9350-19	1	Paozza Paozza	
4020-01-341-8795	Fiber Rope Assembly, Single Leg (A3167672-1)	1	PAOZZA	4-1, 6
5325-00-174-5315	Grommet, Nonmetallic (1/4 in) MS35489-7	2	PAOZZA	
5965-00-043-3463	Handset H-250/U	1	PAOZZA	4-1, 3
5310-00-761-6882	Nut, Plain, Hexagon (1/4 -20 in) MS51967-2	3	PAOZZA	
5305-00-068-0502	<b>S</b> ( )	3	PAOZZA	
5975-00-111-3208	MS90725-6 Strap, Tiedown, Electrical Components MS3367-5-9	10	PAOZZA	
5310-00-582-5965	Washer, Lock (1/4 in) MS35338-44	3	PAOZZA	

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

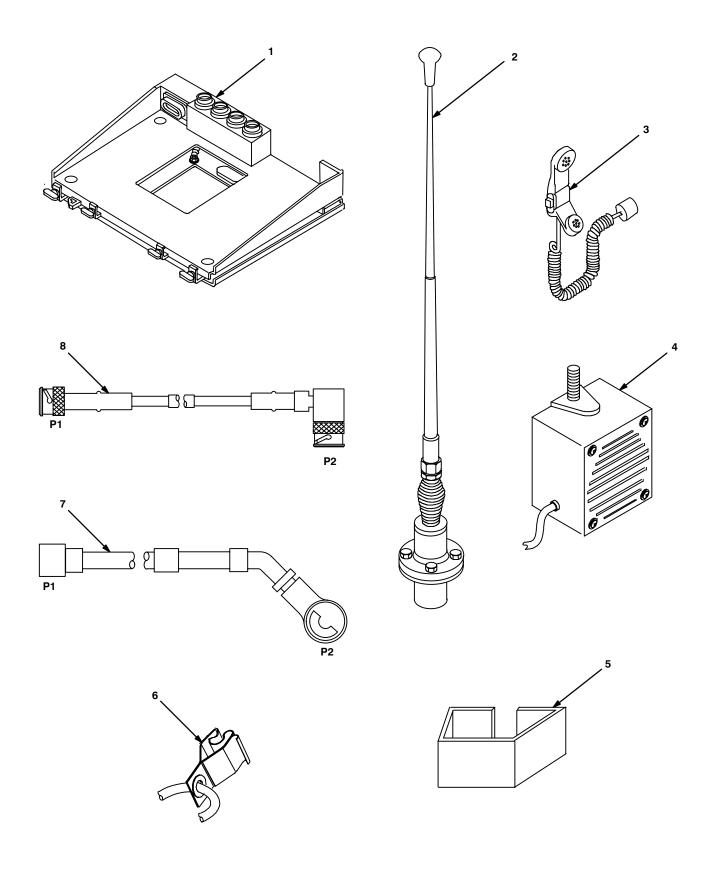
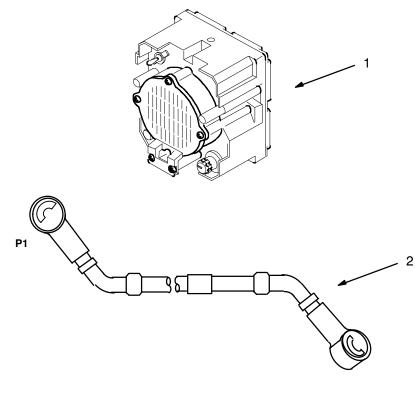


Figure 4–1. MK Illustrated Parts List

NSN	ITEM DESCRIPTION AND PART NUMBER	QUANTITY	SMR CODE	FIGURE NO. AND ITEM NO.
5965–01–222–1420	Loudspeaker, Comtrol–Unit LS–671/VRC (A3014065–1)	1	PAOFFA	4–2, 1
5995–01–219–7010	Cable Assembly, Special Purpose, Electrocal CX–13292/VRC (3 FT, 0 IN) (A3014038–8)	1	PAOZZA	4–2, 2

Table 4–2. Additional Items Required for Installation of "D" Series Radio Sets
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P2



4.3.3	Consumable Materials.	The table below lists	materials required for	installation but not supplied	d 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: 7/16 in	5120-00-228-9505	1
1/2 in 9/16 in	5120-00-228-9506 5120-00-228-9507	1
Handle, Socket Wrench Socket: 7/16 in	5120-00-240-5364 5120-00-227-6703	1 1
Socket: 7/16 in 1/2 in	5120-00-237-0977	1
9/16 in	5120-00-227-6704	1
Electric Drill Drill Bits:	5130-00-889-8994	1
13/32 2/4 in	5133-00-227-9668 5133-00-227-9678	1
3/4 in 5/16 in	5133-00-227-9662	1

\* Use radio issued with your vehicle if available.

### 5. INSTALLATION PROCEDURES.

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

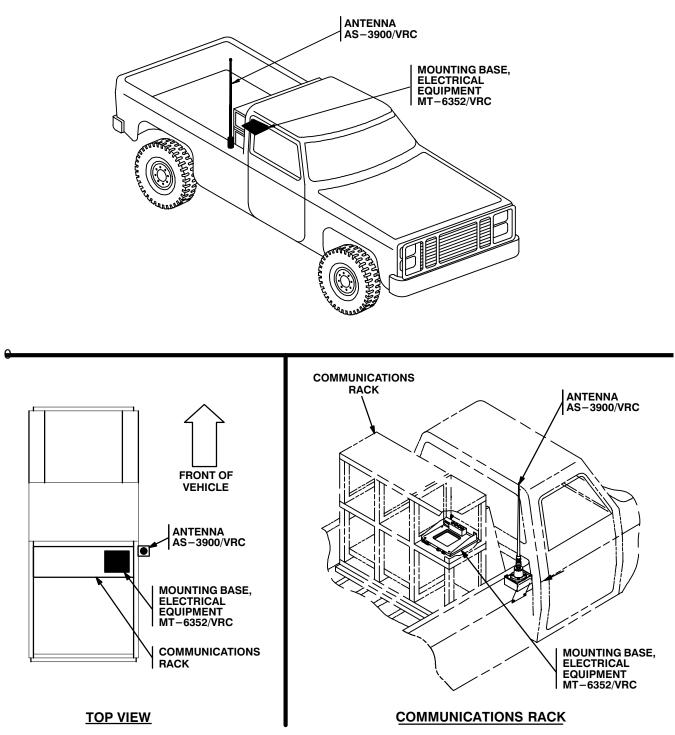


Figure 5-1 (1). MK and Radio Installation: MK Equipment Locations

### 5. INSTALLATION PROCEDURES. Continued

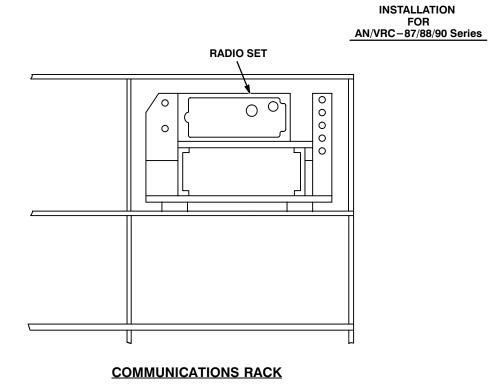


Figure 5-1 (2). MK and Radio Installation: Radio Equipment Locations

#### TB 11-5820-890-20-24

#### 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
a.	Existing antenna bracket and mounting hardware.	Remove and retain existing antenna bracket and mounting hardware. See figure 5–2 (1).	
э.	Existing grommets.	Remove and discard existing grommets.	
с.	Grommet holes.	If holes do not exist, drill $3/4$ in diameter holes through outer and inner truck walls. See figure $5-2$ (1) for locations.	Tools: Electric drill and 3/4 in drill bit.
J.	Mounting bracket (2).	Aline with two top holes in existing antenna bracket.	
Э.	Mounting bracket (2) and existing antenna bracket.	Install and secure to outer truck wall using mounting hardware removed in step a.	
•	Gasket (5).	Place on antenna bracket and aline with holes.	
g.	Antenna base (1).	Place on top of gasket (5) and antenna bracket; then aline mounting holes.	
۱.	Four cap screws (6), eight IET washers (4) and four nuts (3).	Install and secure to antenna	Tools: 9/16 in socket and 9/16 in open/box wrench.

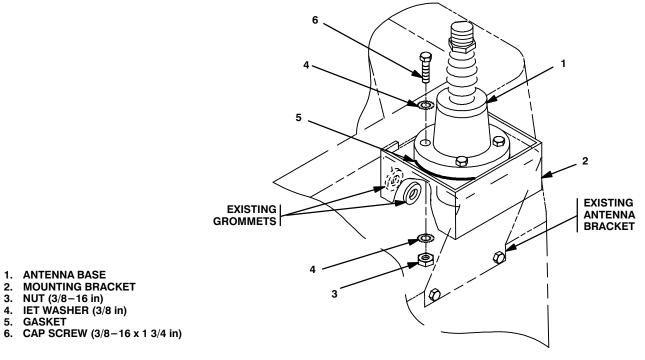


Figure 5–2 (1). Antenna Base Installation: Mounting Antenna Base

#### 5.1.1 Installation of Antenna Base. Continued

ITEM	ACTION	REMARKS
Ground strap (1), existing bolt and two IET washers (2).	Install and secure to existing antenna bracket and mounting bracket (3). See figure 5-2 (2).	
<ol> <li>GROUND STRAP</li> <li>IET WASHER (5/16 in)</li> <li>MOUNTING BRACKET</li> </ol>	A CONTRACT OF CONTRACT	EXISTING ANTENNA BRACKET

Figure 5–2 (2). Antenna Base Installation: Ground Strap Installation

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). Lock wire (4). Install to antenna element (2) and C. 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. 2 3 DETAIL B DETAIL A **ANTENNA ELEMENT (UPPER)** 1. 2. ANTENNA ELEMENT (LOWER) ANTENNA BASE 3. 4. LOCK WIRE

**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.

5. FIBER ROPE ASSEMBLY

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 5-1 for location. See figure 5-4 and perform the following steps.

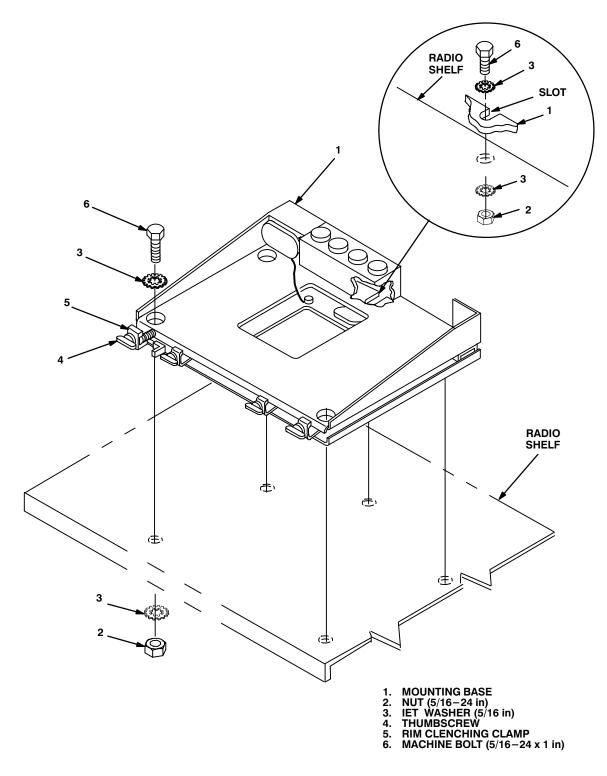


Figure 5-4. Mounting Base Installation

	ITEM	ACTION	REMARKS
		NOTE	
		ive-sealant to both sides of each internal/extern and to the area of contact where IET washer is	
a.	Mounting base (1) and existing radio shelf.	Remove a 2" area of paint on the underside of 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 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 radio shelf. See Figure 5-4.	
C.	Two outer thumbscrews (4).	Turn ccw until both sets of threads have cleared center of holes.	
d.	Mounting bae (1).	Aline four holes and rear slot with matching hole pattern in shelf.	
e.	Five machine bolts (6), ten internal/external toothed (IET) washers (3), and five nuts (2).	Install and secure to mounting base (1) and radio 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

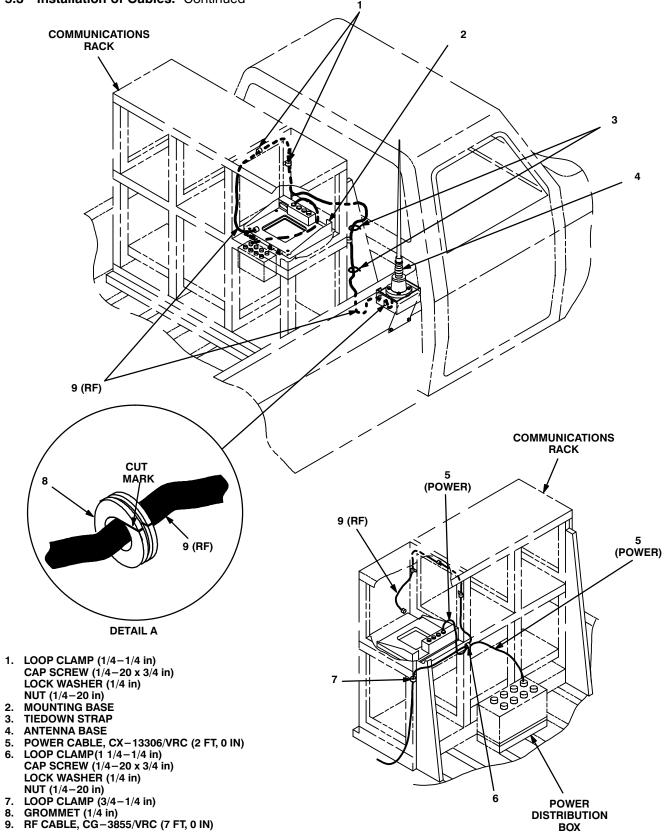
**5.3** Installation of Cables. To accomplish the installation, leave loop clamps and tiedown straps loose enough to adjust cable slack and allow easy adjustment of equipment. When installation is complete, tighten and secure clamps and tiedown straps.

#### WARNING

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

	ITEM	ACTION	REMARKS		
a.	Grommets (8).	Cut through on mark shown in figure $5-5$ , detail A. Then wrap around RF cable (9) and install to grommet holes to replace grommets removed in section 5.1.1. See figure $5-2$ (1) for hole locations.	Tool: pocket knife		
b.	RF cable (9) connector P1.	Connect and secure to connector J1 on antenna base (4). See figure $5-5$ .			
C.	RF cable (9).	Route up side and across rear of commu- nications rack. Positon RF cable connec- tor P2 on mounting base (2).			
d.	Two loop clamps (1), two cap screws $(1/4-20 \times 3/4 \text{ in})$ , two lock washers (1/4  in), and two nuts (1/4-20  in).	Wrap around RF cable (9); then install to existing mounting holes.	Tools: 7/16 in socket and 7/16 in open/box wrench.		
e.	Power cable (5) connec- tor P2.	Position on mounting base (2). Route cable out rear of shelf.			
f.	Loop clamp (6), cap screw $(1/4-20 \times 3/4 \text{ in})$ , lock washer $(1/4 \text{ in})$ , and nut $(1/4-20 \text{ in})$ .	Wrap around RF cable (9) and power cable (5); then install to existing mount-ing holes.	Tools: 7/16 in socket and 7/16 in open/box wrench.		
g.	Power cable (5) connec- tor P1.	Connect and secure to power distribution box.			
h.	Two tiedown straps (3).	Wrap around RF cable (9) and secure to existing cables.			
i.	Loop clamp (7) and exist- ing hardware.	Wrap around RF cable (9); then install to existing mounting hole.			
j.	Power cable (5) connec- tor P2.	Connect and secure to mounting base (2) connector J1.			



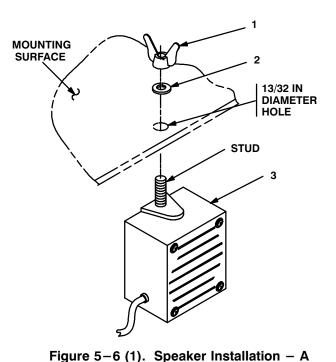




**5.4** Installation of Loudspeaker, Permanent Magnet LS-454/U (speaker). Mounting location for speaker may be determined by the vehicle commander. Typical methods used for mounting the speaker are as follows:

Method A. See figure 5–6 (1).

- a. Determine speaker (3) location.
- b. Drill 13/32 in diameter hole through mounting surface.
- c. 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 x 1 in)
- 5. SPEAKER BRACKET
- 6. LOCK WASHER (1/4 in)
- 7. NUT (1/4-20 in)

Method B. See figure 5–6 (2).

#### NOTE

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

- a. Determine speaker (3) location.
- b. Drill two 5/16 in diameter holes through mounting surface.
- c. 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); then secure with lock washer (2) and wing nut (1).

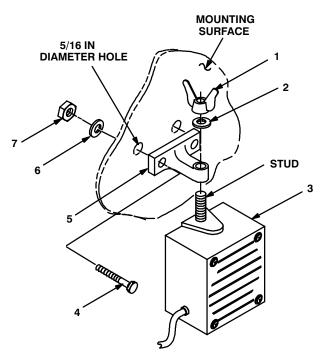
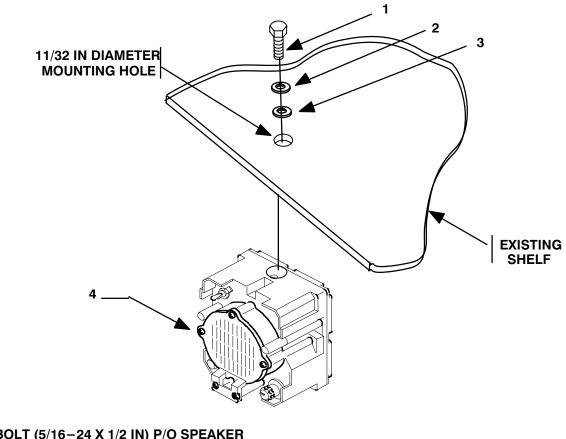


Figure 5–6 (2). Speaker Installation – B

5.5 Installation of Loudspeaker, Control-Unit, LS-671/VRC (speaker). Use the following procedures to install the speaker for "D" series radio sets. Mounting location under radio shelf may be determined by the vehicle commander.

	ITEM	ACTION	REMARKS	
a.	Mounting hole for speaker (4).	Drill a 11/32 in diameter hole through shelf at desired location.	Tools: Electric drill and 11/32 in drill bit.	
b.	Speaker (4).	Position top under hole drilled in step a.		
c.	Machine bolt (1), lock washer (2) and flat washer (3).	Install and secure to speaker (4) and radio shelf. See Figure 5-7	Tools: 1/2 in socket.	
d.	Handset.	Connect and secure to speaker (4).		



- MACHINE BOLT (5/16-24 X 1/2 IN) P/O SPEAKER
   LOCK WASHER (5/16 IN) P/O SPEAKER
   FLAT WASHER (5/16 IN) P/O SPEAKER
   SPEAKER

Figure 5–7. Speaker Installation

#### 5.6 Post-Installation and Checkout. Continued

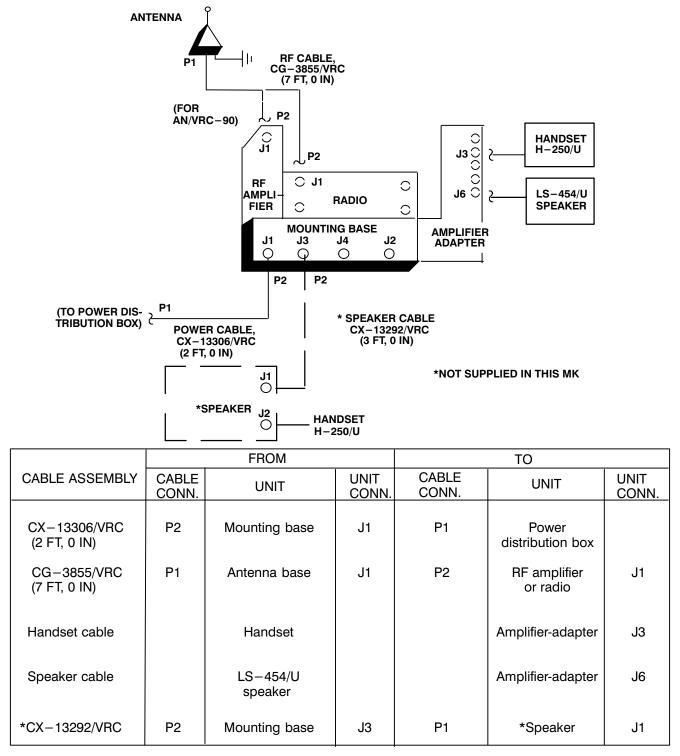


Figure 5–8 Cable Diagram: For AN/VRC-87/88/90 Series. Continued.

### **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:

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Administrative Assistant to the Secretary of the Army

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Image: Second	RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLIC									
THEN JOT DOWN THE IVAD       Commander         BUILT ON THIS FORM.       Commander         AREFULLY TEAM DOOP IT IN THE       Data and DOOP IT IN THE         TUBLICATION NUMBER       PUBLICATION NUMBER         TM 11-5840-340-12       PUBLICATION NUMER         PAGE       PRAM         PONDUCATION NUMBER       PUBLICATION NUMBER         PAGE       PRAM         PAGE       PRAM         PAGE       PRAM         PAGE       PARA         PAGE       PRAM         PAGE       PRAM         PAGE       PARA         PAGE       PRAM         PAGE       PRAM         FOUND       TABLE         NTHIS SPACE TELL WHAT IS WOND BE         2-25       2-28         PARA       FOUND         REASON:       Experience has shown the procedure of a stage at the stag				SOMETHING WRONG WITH THIS PUBLICATION						
TM         111-5940-340-12         23 Jan 74         Rade Set NV/PRC-76           PARA NO         PARA GRAPH         FIGURE NO         TABLE NO         NTHIS SPACE TELL WHAT IS WRONG CRAPH         Image: Comparison of the set of th				ABOUT II CAREFUL FOLD IT /	T ON THIS FORM. LLY TEAR IT OUT.	C St A' St	ommander ateside Army Depot TTN: AMSTA-US ateside, NJ 07703-5007 ENT			
Determining the second of the						DATE				
PAGE NO       PARA GRAPH       FIGURE NO       TABLE NO       AND WHAT SHOULD BE DONE ABOUT IT:         2-25       2-28       1       AND WHAT SHOULD BE DONE ABOUT IT:         2-25       2-28       2       Recommend that the installation anterna alignment procedure be changed throughout to specify a 20 IFF anterna lag rather than 10         3-10       3-3       Image: State of the st		_								
NO       GRAPH       NO       NO       NO         2-25       2-28       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 through and 0 lag, the antenna servo system is too sensitive to the education of decelerate and decelerate as thunts, caulent strain to the drive train. Hunting is minimized by adjusting the to to 0 without degradation of operation.         3-10       3-3       3-1       Item 5, Functional common. Change 2 dB" to 3 dB".         F6-6       5-8       S-8       A1       REASON: To replace cover plate removed in step d above."         F0-3       F0-3       F0-3       SON 11-2, change +24 VDC" to +5 VDC".         PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER       SIGN HERE			i							
2-25       2-25       be changed throughout to specify a 20 IFF antenna låg rather than 10         REASON: Experience has shown the weather of the store and decelerate as it hunts, cauch strain to the drive train. Hunting is minimized by adjusting the two without degradation of operation.         3-10       3-3         3-10       3-3         3-10       3-3         3-10       3-3         3-10       3-3         3-10       3-3         3-10       3-3         3-10       3-3         3-11       Item 5, Functional count. Change [] 2 dB" to [] 3 dB".         REACTION REQUIRES and the step of a 3 dB (500 watts) adjustment to light the TRANS POWER FAULT was reall for a 3 dB (500 watts) adjustment to light the TRANE YOWER FAULT indicator.         5-6       5-8         FO-3       FO-3         FO-3       FO-3         REASON: This is the output line of the 5 VDC power supply.         Y24 VDC is the input voltage.										
3-10       3-3       3-1       Item 5, Frictional comm. Change □ 2 dB" to □ 3 dB".         REAL THE RELIGIONAL COMMENT OF CALL OF A 3 dB (500 watts) adjustment to light the TRANS POWER FAULT indicator.       REAL THE RELIGIONAL COMMENT OF CALL OF A 3 dB (500 watts) adjustment to light the TRANS POWER FAULT indicator.         5-6       5-8       A a 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".         FO-3       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.       PRIMEED NAME, GRADE OR TITLE AND TELEPHONE NUMBER	2-25	2-28			be changed throughou than 10	it to specif	y a 20 IFF antenna låg rather			
3-10       3-3         3-10       3-1         REA       Reach the djustment procedure for the TRANS POWER FAULT indicator.         5-6       5-8         5-6       5-8         FO-3       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.         PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER					antenna servo system i of 25 knots, and has a decelerate as it hunts, is minimized by adjust operation.	tendency cause stilling the	to rapidly accelerate and to rapidly accelerate and train to the drive train. Hunting to 20 without degradation of			
S=0       S=8       step d above."         REASON: To replace the cover plate.       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.         PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER       SIGN HERE	3-10	3-3		3-1		•				
FO-3       REASON: This is the output line of the 5 VDC power supply.         +24 VDC is the input voltage.         PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER	5-6	5-8		5	step d above."					
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER			FO-3		REASON: This is the output line of the 5 VDC power supply.					
SSG I. M. DeSpiritof 999–1779					+24 VDC is the input	voltage.				
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