

INSTALLATION INSTRUCTIONS FOR INSTALLATION KIT, ELECTRONIC EQUIPMENT MK-2300/VRC (NSN 5895-01-299-5864) (EIC: N/A) TO PERMIT INSTALLATION OF RADIO SET AN/VRC-89/91 SERIES IN A HOWITZER, MEDIUM, SELF-PROPELLED, M109A6

Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE — Destroy by any method that will prevent disclosure of contents or reconstruction of the document.

HEADQUARTERS, DEPARTMENT OF THE ARMY

1 AUGUST 1999

INSTALLATION INSTRUCTIONS FOR INSTALLATION KIT, ELECTRONIC EQUIPMENT MK-2300/VRC (NSN 5895-01-299-5864) (EIC: N/A) TO PERMIT INSTALLATION OF RADIO SET AN/VRC-89/91 SERIES IN A

HOWITZER, MEDIUM, SELF-PROPELLED, M109A6

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.

TABLE OF CONTENTS Subject Section Page Scope . 0.1 1 General Information 0.2 1 Maintenance Forms, Records, and Reports 0.3 1 Reports of Maintenance and Unsatisfactory Equipment 0.3.1 1 Report of Packing and Handling Deficiencies 0.3.2 1 Discrepancy in Transportation Deficiency Report (TDR) (SF 361) 0.3.3 1 Consolidated Index of Army Publications 0.4 1 Purpose of Installation 2 1. End Item or System to be Modified 2 2. Application Times 2 3. Time for Completion of Installation 2 3.1 Time for Installation of One Assembly or Component 2 3.2 Preparation for Installation 4. 2 Preparation of Vehicle 2 4.1 Preparation of MK 4.2 2 MK, Distribution, and Consumables 3 4.3 Tools and Test, Measurement, and Diagnostic Equipment (TMDE) Required 4.4 6 Installation Procedures 5. 7 Installation of Antenna AS-3900/VRC (antenna) 9 5.1 Installation of Antenna Base 5.1.1 9 Installation of Top Antenna Assembly 5.1.2 10 Installation of Mounting Base, Electrical Equipment MT-6352/VRC (mounting base) 5.2 11 Installation of Cables 12 5.3 Post-Installation and Checkout 17 5.4 Appendix A. References A1

^{*}This manual supersedes TB 11–5820–890–20–17, dated 1 September 1993.

LIST OF ILLUSTRATIONS

Figure	Title	Page
4–1 5–1(1) 5–1(2) 5–2	MK Illustrated Parts List MK and Radio Installation: MK Equipment Locations MK and Radio Installation: Radio Equipment Locations Antenna Base Installation	. 7 . 8
5-3 5-4 5-5(1) 5-5(2) 5-5(3) 5-5(4) 5-6	Top Antenna Assembly InstallationMounting Base InstallationCable Installation: Curbside AntennaCable Installation: Roadside AntennaCable Installation: Turret InteriorCable Installation: Mounting BaseCable Diagram: For AN/VRC-89/91 Series	. 11 . 13 . 14 . 15 . 16

LIST OF TABLES

Number	Title	Page
4-1	Parts List for Installation of Radio Set AN/VRC-89/91 Series	4

0.1 SCOPE.

This technical bulletin provides Installation Instructions for Electronic Equipment MK–2300/VRC, commonly referred to as the Mounting Kit (MK). The MK shall be installed into the following type of vehicle(s):

• Howitzer, Medium, Self-Propelled, M109A6

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-89/91 Series includes:

• Radio Set AN/VRC-89/91 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 Electronic Equipment MK–2300/VRC (MK) contains the items needed to mount Radio Set AN/VRC–89/91 Series in a Howitzer, Medium, Self-Propelled, M109A6.

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 4.5 work hours is required. Typical vehicle downtime is 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
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 9-2350-303-20.

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.

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	2 8	Paoofa Paozza	4–1, 2
5310-00-913-8881	Nut, Hexagon (3/8–16 in) MS51971–3 (Not Used)	8	PAOZZA	
5310-00-061-1258	Washer, Lock, Internal/External-Toothed (3/8 in) MS45904-76 (Not Used)	16	PAOZZA	
5310-00-889-2527	Washer, Lock, Internal/External-Toothed (5/16 in) MS45904-72 (Not Used)	4	PAOZZA	
5306-00-225-9086	Bolt, Machine (5/16–24 x 5/8 in) MS90726–31 (Not Used)	2	PAOZZA	
5330-01-205-2864	Gasket (A3013655-1)	2	PAOZZA	
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 (5 Not Used) Nut, Hexagon (5/16 - 24 in) MS51968-5 (Not Used)	5	PAOZZA	
5995-01-219-7034	Cable Assembly, Radio Frequency CG-3855/VRC (15 FT, 0 IN) (A3014031-7)	1	PAOZZA	4-1, 4
5995-01-225-1658	Cable Assembly, Radio Frequency CG-3856/VRC (21 FT, 0 IN) (A3014032-7)	1	PAOZZA	4–1, 5
5995-01-219-7307	Cable Assembly, Special Purpose, Electrical CX-13300/VRC (6 FT, 0 IN) (A3014044-4)	1	PAOZZA	4–1, 6
5995-01-303-4951	Cable Assembly, Special Purpose, Electrical CX-13313/VRC (2 FT, 7 IN) (A3018360-1)	1	PAOZZA	4–1, 7
5340-00-809-1490	Clamp, Loop (1/4 - 1/4 in) MS21333-98	7	PAOZZA	
4020-01-341-8795	Fiber Rope Assembly, Single Leg (A3167672-1)	2	PAOZZA	4–1, 3
5305-00-068-0502	Screw, Cap, Hexagon (1/4–20 x 3/4 in) MS90725–6	7	PAOZZA	
5975-00-074-2072	Strap, Tiedown, Electrical Components MS3367-1-9	20	PAOZZA	
5310-00-582-5965	Washer, Lock (1/4 in) MS35338-44	7	PAOZZA	

Table 4-1. Parts List for Installation of Radio Set AN/VRC-89/91 Series

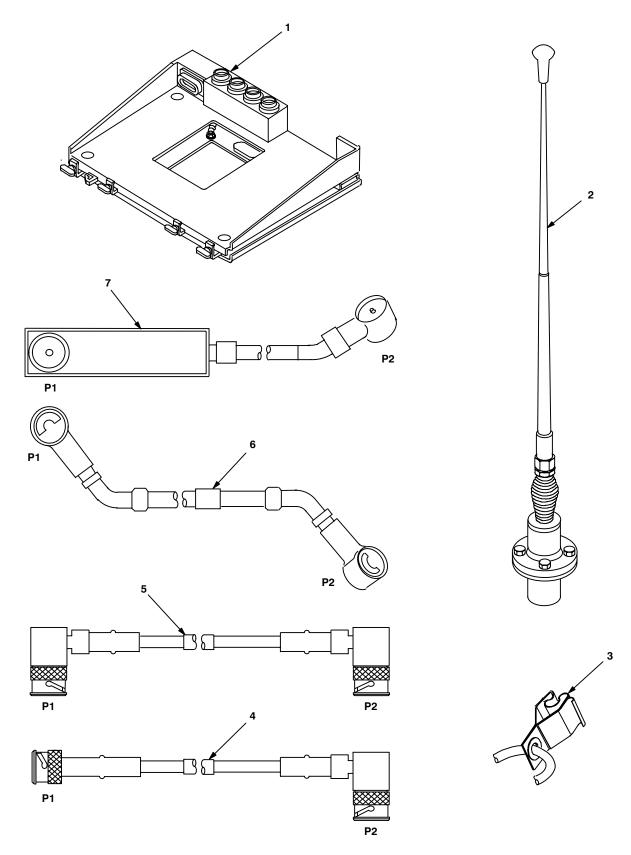


Figure 4–1. MK Illustrated Parts List

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

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

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 1/2 in 9/16 in	5120-00-228-9505 5120-00-228-9506 5120-00-228-9507	1 1 1
Handle, Socket Wrench Socket: 7/16 in 1/2 in 9/16 in	5120-00-240-5364 5120-00-227-6703 5120-00-237-0977 5120-00-227-6704	1 1 1 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.

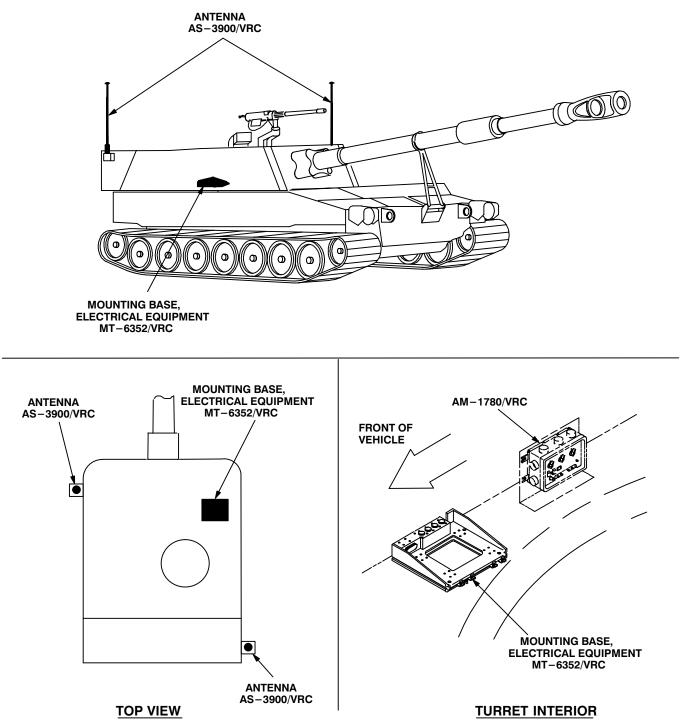
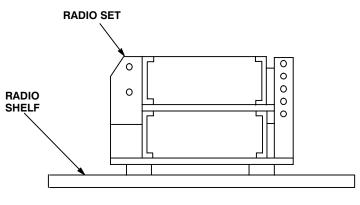


Figure 5-1 (1). MK and Radio Installation: MK Equipment Locations

TB 11-5820-890-20-17

5. INSTALLATION PROCEDURES. Continued





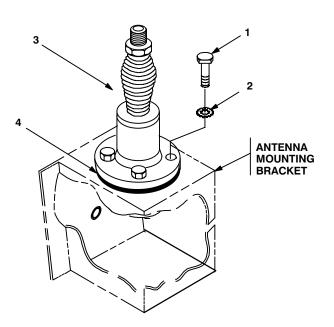
RADIO RACK



5.1 Installation of Antenna, Vehicular, AS-3900/VRC (antenna).

5.1.1 Installation of Antenna Base. Use the following procedures to install both antenna bases. See Figure 5-1(1) for locations.

	ITEM	ACTION	REMARKS
		NOTE	
		ve-sealant to both sides of each internal/external the area of contact where IET washer is to be pl	. ,
a.	Existing antenna mounting bracket.	Remove access plate from bottom if installed. See figure 5-2.	Access plate not shown.
b.	Existing antenna mounting. bracket.	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).	Tools: Electric grinder or equivalent.
C.	Gasket (4).	Place on antenna mounting bracket and align mounting holes.	
d.	Antenna base (3).	Place on top of gasket (4) and antenna mounting bracket; then align mounting holes.	
e.	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.
f.	Gasket (4) and antenna mounting bracket.	Apply a bed of adhesive-sealant/silicon compound 360° around the seam between gasket (4) and antenna mounting	



- CAP SCREW (3/8-16 x 1 3/4 in)
 IET WASHER (3/8 in)
 ANTENNA BASE
 GASKET

Figure 5–2. Antenna Base 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 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.

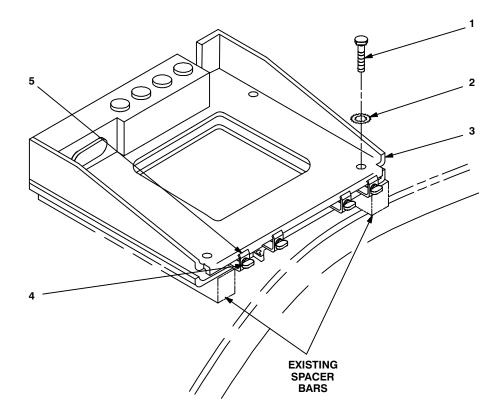
5. FIBER ROPE ASSEMBLY

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 mounting hardware. 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(1) for location; then see Figure 5-4 and perform the following steps.

ITEM	ACTION	REMARKS
	NOTE	
	hesive-sealant to both sides of each internal/exter ion, and to the area of contact where IET washer is	
. Mounting base (3) and existing spacer bars.	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 spacer bars 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 CASC.	Tools: Electric grinder or equivalent.
. Mounting base (3).	Place on existing spacer bars over existing holes. See figure $5-4$.	
. Two outer thumbscrews (4).	Turn ccw until both sets of threads have cleared center of holes.	
. Mounting base (3).	Align four holes and rear slot with matching hole pattern in equipment shelf.	
. Five machine bolts (1) and five internal/external- toothed IET washers (2).	Install and secure to mounting base (3) and spacer bars.	Tools: 1/2 in socket and 1/2 in open/box wrench.
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.



MACHINE BOLT (5/16 - 24 x 1 in)
 IET WASHER (5/16 in)
 MOUNTING BASE
 THUMBSCREW
 RIM CLENCHING CLAMP

- 2. 3.
- 4. 5.

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 all clamps and tiedown straps.

WARNING

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

	ITEM	ACTION	REMARKS
a.	Existing curbside antenna mounting bracket.	Remove access plate from bottom if installed.	
b.	RF cable (2) connector P2.	From outside vehicle, insert through existing grommet and into vehicle. See figure 5–5 (1), detail A.	
C.	Armor plate.	Partially remove so that cable clamps (3) can be installed. See figure 5–5 (1).	
d.	RF cable (2) connector P1.	Route behind armor plate and into curb- side antenna mounting bracket.	
e.	RF cable (2) connector P1.	Connect and secure to antenna base (1) connector J1.	
f.	Four loop clamps (3), four cap screws (1/4-20 x 3/4 in), and four lock washers (1/4 in).	Wrap around RF cable (2); then install to existing holes.	Tools: 7/16 in socket.
g.	RF cable (2).	Adjust slack in cable and securely tighten four loop clamps (3).	Tools: 7/16 in socket.
h.	Armor plate.	Reinstall to vehicle.	
i.	Existing curbside antenna mounting bracket.	Reinstall access plate to bottom.	

TB 11-5820-890-20-17

ITEM ACTION REMARKS ANTENNA BASE RF CABLE, CG-3856/VRC (21 FT, 0 IN) LOOP CLAMP (1/4-1/4 in) CAP SCREW (1/4-20 x 3/4 in) LOCK WASHER (1/4 in) 1 ARMOR PLATE L 2 (RF) 0 0 D з 0 O OPPE 0 D EXISTING GROMMET 2 (RF) DETAIL A

Figure 5–5 (1). Cable Installation: Curbside Antenna

j.	Existing roadside antenna mounting bracket.	Remove access plate from bottom if installed.
k.	RF cable (3) connector P2.	From outside vehicle, insert through existing grommet in turret. See figure 5–5 (2).
I.	RF cable (3) connector P1.	Connect and secure to antenna base (1) connector J1.
m.	RF cable (3).	From inside vehicle, route cable down turret and around to mounting base.

	ITEM	ACTION	REMARKS
n.	Three loop clamps (4), three cap screws (1/4–20 x 3/4 in), and three lock washers (1/4 in).	Wrap around RF cable (3); then install to existing holes in turret. See figure 5–5 (2) for locations.	Tools: 7/16 in socket.
0.	Six tiedown straps (2).	Wrap around RF cable (3); then secure to existing cables along the turret.	
p.	RF cable (3) connector P2.	Position on top of mounting base.	
q.	Existing roadside antenna mounting bracket.	Reinstall access plate to bottom.	
	I EXISTING CROMMET	TELESCOPE FRONT OF VEHICLE VEHICLE	 ANTENNA BASE TIEDOWN STRAP RF CABLE, CG – 3855/VRC (15 FT, 0 IN) LOOP CLAMP (1/4 – 1/4 in) CAP SCREW (1/4 – 20 x 3/4 in) LOCK WASHER (1/4 in) MAIN GUN MAIN GUN EXISTING CABLE BUNDLE

Figure 5–5 (2). Cable Installation: Roadside Antenna

ITEM	ACTION	REMARKS
r. RF cable (1).	Route along turret behind existing power conditioning unit, behind existing $AM-1780/VRC$, and around left side of mounting base (3). See figure 5–5 (3).	
s. RF cable (1) connec P2.	tor Position on mounting base (3).	
t. Existing power cable from power conditio unit.		
u. Two tiedown straps	(2). Wrap around existing power cable and secure to RF cable (1).	
v. SP cable (4) connec P1.	tor Connect and secure to AM-1780/VRC connector J501.	
w. SP cable (4).	Route from AM-1780/VRC to back of mounting base (3).	
1. RF CABLE, CG-3856/V (21 FT, 0 IN) 2. TIEDOWN STRAP 3. MOUNTING BASE 4. SP CABLE, CX-13300// (6 FT, 0 IN) AM-1780/V 4 (SP) 1 (RF) 1 (RF)	VRC POWER CONDITIONING UNIT RC 000000000 00000000 000000000 000000	(RF)

Figure 5–5 (3). Cable Installation: Turret Interior

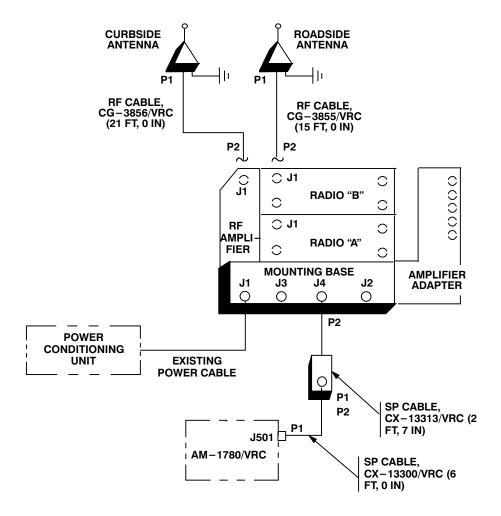
	ITEM	ACTION	REMARKS
x.	SP cable (3) connector P2.	Connect and secure to SP cable (4) connector P1. See figure 5-5 (4).	
у.	SP cable (4) connector P2.	Connect and secure to mounting base (1) connector J4.	
Z.	Tiedown strap (2).	Wrap around SP cable (4) and secure.	
	4 (SP)		1. MOUNTING BASE 2. TIEDOWN STRAP 3. SP CABLE, CX-13300/VRC (6 FT, 0 IN) 4. SP CABLE, CX-13313/VRC (2 FT, 7 IN)

Figure 5–5 (4). Cable Installation: Mounting Base

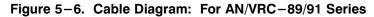
5.4 Post-Installation and Checkout. After equipment is installed and cables are connected, perform the following steps.

	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 appropri– ate 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 con- nected.	
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



	FROM		ТО			
CABLE ASSEMBLY	CABLE CONN.	UNIT	UNIT CONN.	CABLE CONN.	UNIT	UNIT CONN.
Existing power cable		Power conditioning unit			Mounting base	J1
CG-3856/VRC (21 FT, 0 IN)	P1	Curbside antenna base	J1	P2	RF amplifier	J1
CG-3855/VRC (15 FT, 0 IN)	P1	Roadside antenna base	J1	P2	Radio "B"	J1
CX-13313/VRC (2 FT, 7 IN)	P1	CX-13300/VRC	P2	P2	Mounting base	J4
CX-13300/VRC (6 FT, 0 IN)	P1	AM-1780/VRC	J501	P2	CX-13313/VRC	P1



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	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:

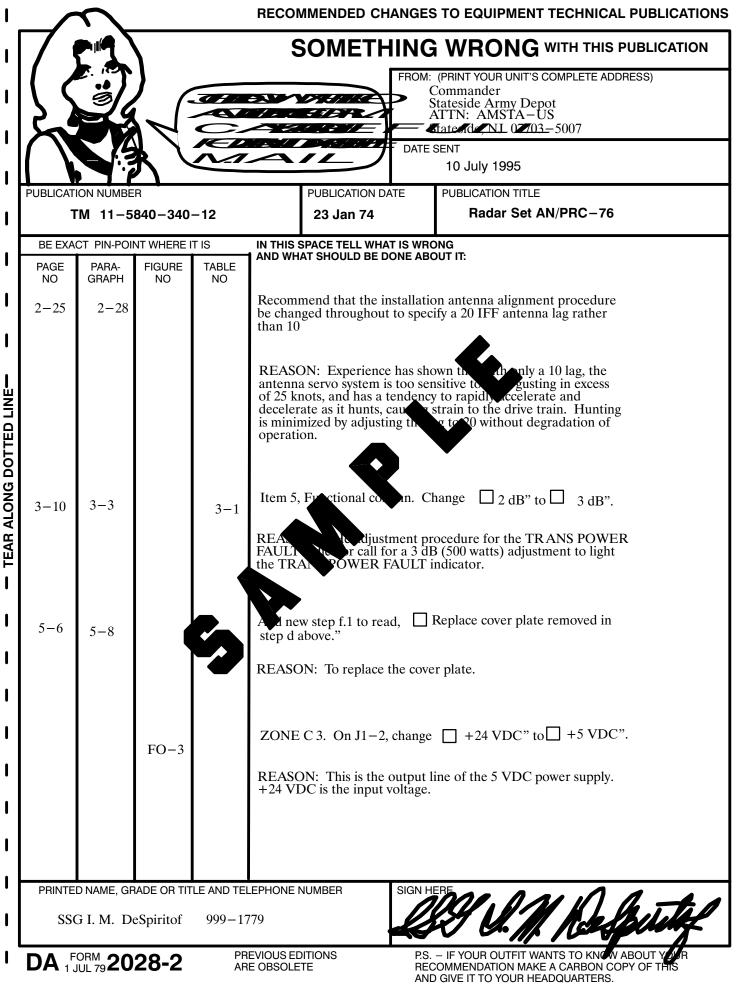
Joel B. Huln I JOEL B. HUDSON

Administrative Assistant to the Secretary of the Army

9916708

DISTRIBUTION:

To be distributed in accordance with the initial distribution number (IDN) 369560 requirements for TB 11–5820–890–20–17.



RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS			
7 end	SOMETHING WRONG WITH THIS PUBLICATION		
PUBLICATION NUMBER	PUBLICATION DATE PUBLICATION TITLE		
BE EXACT PIN-POINT WHERE IT IS PAGE PARA- FIGURE TABLE	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:		
NO GRAPH NO NO			
PRINTED NAME, GRADE OR TITLE AND	TELEPHONE NUMBER SIGN HERE		
	PREVIOUS EDITIONS ARE OBSOLETE P.S. – IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.		

REVERSE OF DA FORM 2028-2

 FILL IN YOUR UNIT'S ADDRESS

 FOLD BACK

 DEPARTMENT OF THE ARMY

 PLEASE AFFIX STAMP POSTAGE REQUIRED

Commander U.S. Army Communications-Electronics Command and Fort Monmouth ATTN: AMSEL-LC-LEO-D-CS-CFO Fort Monmouth, New Jersey 07703-5000

OFFICIAL BUSINESS

Որորողիորըը, որ հերություններին հերություն հերություն հերություններին հերություններին հերություններին հերություներին հերություններին հերություններին հերություններին հերություններին հերություներին հերություններին հերություններին հերություններին հերություններին հերություն հերութ

- TEAR ALONG DOTTED LINE - - - - - - - - - - -

PIN: 071758-000

This fine document...

Was brought to you by me:



Liberated Manuals -- free army and government manuals

Why do I do it? I am tired of sleazy CD-ROM sellers, who take publicly available information, slap "watermarks" and other junk on it, and sell it. Those masters of search engine manipulation make sure that their sites that sell free information, come up first in search engines. They did not create it... They did not even scan it... Why should they get your money? Why are not letting you give those free manuals to your friends?

I am setting this document FREE. This document was made by the US Government and is NOT protected by Copyright. Feel free to share, republish, sell and so on.

I am not asking you for donations, fees or handouts. If you can, please provide a link to liberatedmanuals.com, so that free manuals come up first in search engines:

<A HREF=<u>http://www.liberatedmanuals.com/</u>>Free Military and Government Manuals

Sincerely
 Igor Chudov
 <u>http://igor.chudov.com/</u>
 Chicago Machinery Movers