CYANTEL GROUND OF AIRBORNE RADIO

COMBAT NET RADIO

**TECHNICAL BULLETIN** 

INSTALLATION INSTRUCTIONS FOR
INSTALLATION KIT,
ELECTRONIC EQUIPMENT MK-2383/VRC
(NSN 5895-01-217-3823) (EIC: N/A)
TO PERMIT INSTALLATION OF RADIO SET
AN/VRC-90 SERIES
INTO
CARRIER, COMMAND POST: LIGHT TRACKED
M577 AI /A2

**SINCGARS** 

**TECHNICAL BULLETIN** 

NO. 11-5820890-20-62

HEADQUARTERS, DEPARTMENT OF THE ARMY WASHINGTON, D.C. 1 September 1993

INSTALLATION INSTRUCTIONS FOR
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M577 A1/A2

# REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of away to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-LM-LT, Fort Monmouth, New Jersey 07703-5007. In either case, a reply will be furnished direct to you.

#### **TABLE OF CONTENTS**

Subject	Section	Page
Scope	0.1	1
General Information		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		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
End Item or System to be Modified		2
Application Times	3.	2
Time for Completion of Installation		2
Time for Installation of One Assembly or Component		2
Preparation for Installation		2
Preparation of Vehicle		2
Preparation of MK		2
MK, Distribution, and Consumables	4.3	3
Required	4.4	7
Tools and Test, Measurement, and Diagnostic Equipment (TMDE)		
Installation Procedures		8
Installation of Antenna AS-3900NRC (antenna)	5.1	10
Installation of Antenna Base		10
Installation of Top Antenna Assembly	5.1.2	11
(mounting base)	5.2	12
Installation of Mounting Base, Electrical Equipment MT-6352NRC		
Installation of Cables		14
Installation of Loudspeaker, Permanent Magnet LS-454/U (speaker)		16
Installation of MK-2499NRC		17
Post-Installation and Checkout	5.6	17
Appendix A. References		A-1

# **LIST OF ILLUSTRATIONS**

Figure	Title	Page
4-1	MK Illustrated Parts List	5
4-2	TSEC/KY-57 Illustrated Parts List	6
5-1	MK and Radio Installation	8
5-2	Antenna Base Installation	10
5-3	Top Antenna Assembly Installation	11
5-4	Mounting Base Installation	12
5-5	Cable Installation	14
5-6	Speaker Installation	16
5-7	MK-2499NRC Installation	17
5-8	Cable Diagram	18
	LIST OF TABLES	
Number	Title	Page
4-1	MK Parts List for Installation of Radio Set ANNRC-90 Series	4
4-2	Additional Items Required for Installation When Using RT-1439NRC	6

#### 0.1 SCOPE

This technical bulletin provides Installation Instructions for Installation kit, Electronic Equipment MK-2383NRC, commonly referred to as the Mounting Kit (MK). The MK shall be installed into the following type of vehicle(s):

Carrier, Command Post: Light Tracked M577 A1/A2

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, TM 11-5820-890-20-4 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 ANNRC-90 Series are:

- Radio Set ANNRC-90 (for RT-1 439NRC)
- Radio Set ANNRC-90A (for RT-1 523(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-2383NRC (MK) contains the items needed to mount Radio Set ANNRC-90A in a Carrier, Command Post: Light Tracked M577 A1/A2. If Radio Set ANNRC-90 is to be installed, communications security equipment (TSEC/KY-57) will need to be installed also. See section 5.5 for information.

#### 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 3.5 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-3900NRC	5.1	1.0
Mounting Base, Electrical Equipment MT-6352NRC	5.2	0.5
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 ANNRC-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 9-2350-261-20.
- **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-90 Series. Refer to Table 4-2 and figure 4-2 to identify additional items required to install when using RT-1439/VRC.

#### 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. MK Parts List for Installation of Radio Set AN/VRC-90 Series

NSN	ITEM DESCRIPTION AND PART NUMBER	QUANTITY IN MK	SMR CODE	FIGURE ITEM NO.
5985-01-297-2971	Antenna AS-3900/VRC (A3017899-1)	1	PAOOFA	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 (Not Used) (3/8 in) MS45904-76 (4 Not used)	8	PAOZZA	
5310-00-889-2527	Washer, Lock, Internal/External-Toothed (5/16 in) MS45904-72	2	PAOZZA	
5306-00-225-9086	Bolt, Machine (5/16-24 x 5/8 in) MS90726-31 (Not Used)	1	PAOZZA	
5330-01-205-2864	Gasket (A3013655-1)	1	PAOZZA	
5965-00-876-2375	Loudspeaker, Permanent Magnet LS-454/U	1	PAOZZA	4-1, 4
5975-01-188-8873	Mounting Base, Electrical Equipment MT-6352/VRC (A3013367-1)	1	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 (5/16 in) MS45904-72	5 10	PAOZZA PAOZZA	
5310-00-880-7746	Nut, Hexagon (5/16 - 24 in) MS51968-5	5	PAOZZA	
5995-01-219-1845	Cable Assembly, Power, Electrical CX-13306/VRC (8 FT, 0 IN) (A3014043-4)	1	PAOZZA	4-1, 7
5995-01-219-7024	Cable Assembly, Radio Frequency CG-3856/VRC (4 FT, 0 IN) (A3014032-2)	1	PAOZZA	4-1, 6
5306-00-225-8496	Bolt, Machine (5/16-18 x 5/8 in) MS90725-31	1	PAOZZA	
4020-01-341-8795	Fiber Rope Assembly, Single Leg (A3167672-1)	1	PAOZZA	4-1, 5
5965-00-043-3463	Handset H-250/U	1	PAOZZA	4-1, 3
5340-00-067-3868 5340-00-809-1494	Clamp, Loop (1/4-5/16 in) MS21333-109 Clamp, Loop (3/4-1/4 in) MS21333-105	1	PAOZZA PAOZZA	
5340-00-400-0002	Clamp, Loop (1 1/4-1/4 in) MS9350-19	4	PAOZZA	
5305-00-068-0501	Screw, Cap, Hexagon (1/4 - 20 x 5/8 in) MS90725-5	5	PAOZZA	
5975-00-111-3208	Strap, Tiedown, Electrical Components MS90725-5	5	PAOZZA	
5310-00-582-5965	Washer, Lock (1/4 in) MS35338-44	5	PAOZZA	
	4			

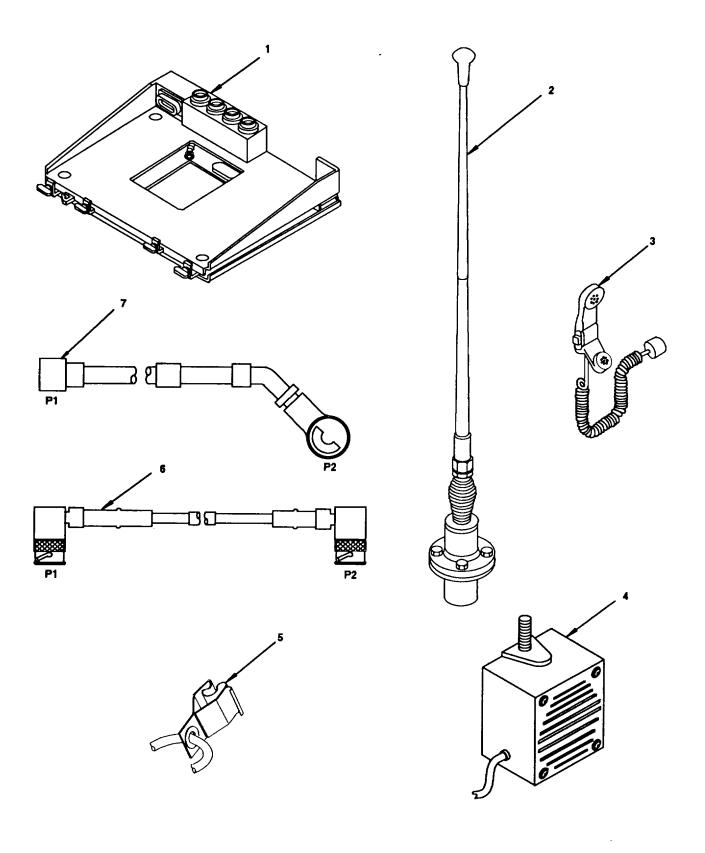


Figure 4-1. MK Illustrated Parts List

Table 4-2. Additional Items Required for Installation When Using RT-14391VRC

NSN	ITEM DESCRIPTION AND PART NUMBER	QUANTITY IN MK	SMR CODE	FIGURE ITEM NO.
5995-01-222-4210	Cable Assembly, Special Purpose, Electrical CX-13293/VRC (4 FT, 0 IN) (A3014034-1)	1	PAOZZA	4-3, 5
5995-01-226-5482	Cable Assembly, Power, Electrical CX-13303/VRC (2 FT, 6 IN) (A3014040-5)	1	PAOZZA	4-3, 4
5306-00-225-9088	Bolt, Machine (5/16-24 x 7/8 in) MS90726-33 Bracket, Mounting (A3050660-1) Bracket, Multiple Angle (A3050659-1) Bracket, Multiple Angle (A3050658-1)	10 1 1 1	PAOZZA XBOZZA XBOZZA XBOZZA	4-3, 1 4-3, 2 4-3, 3
5310-00-880-7746	Nut, Hexagon (5/16-24 in) MS51968-5	10	PAOZZA	
5310-00-081-4219 5310-00-889-2527	Washer, Flat (5/16 in) MS27183-12 Washer, Lock, Internal/External-Toothed (5/16 in) MS45904-72	10 10	PAOZZA PAOZZA	

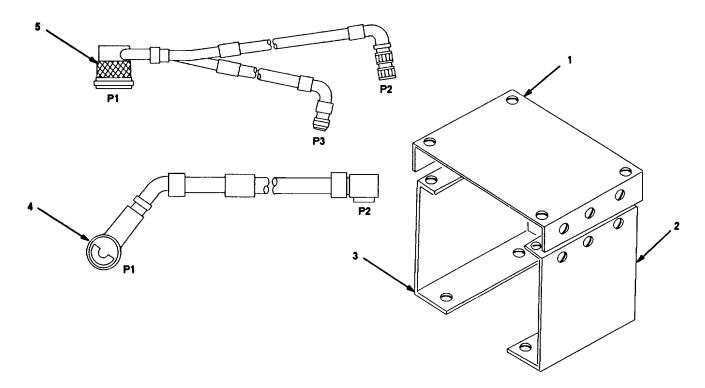


Figure 4-2. TSEC/KY-57 Illustrated Parts List

**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

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

NOMENCLATU	RE	NSN	QUANTITY
Radio Set			1
Pocket Knife, Elect	rician's	5110-00-240-5943	1
Screwdriver, No. 2 Point	Philips, 4 in	5120-00-234-8913	1
Screwdriver, ¼ in Flat	olade, 4 in	5120-00-222-8852	1
Pliers, Round N	ose	5120-00-240-6172	1
Pliers, Diagonal C	utting	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 W Socke	rench et: 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
Electric Drill Drill Bits:	13/32 in 5/16 in	5130-00-889-8994 5133-00-227-9668 5133-00-227-9662	1 1 1

<sup>\*</sup>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. If Radio Set AN/VRC-90 is to be installed, communications security equipment (TSEC/KY-57) will need to be installed also. See section 5.5 for information.

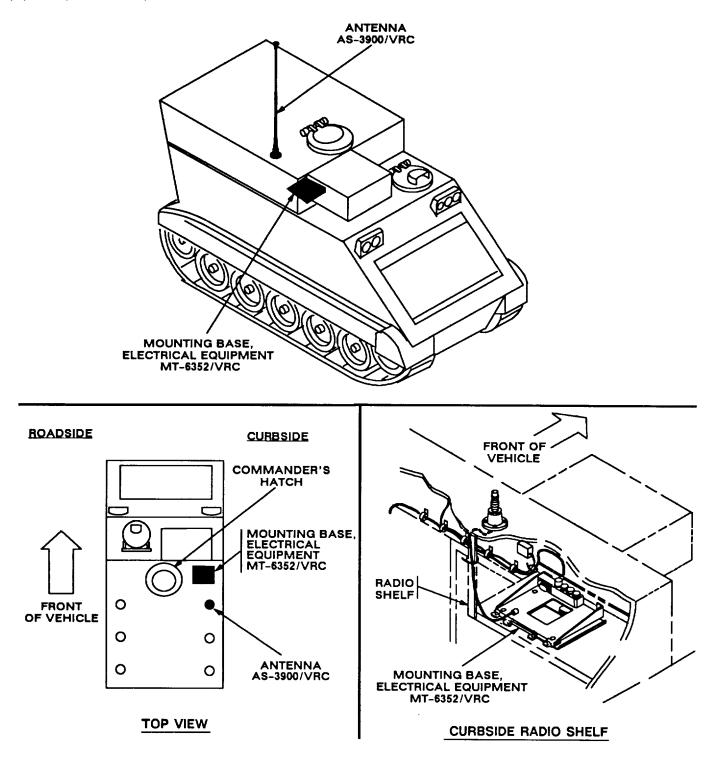
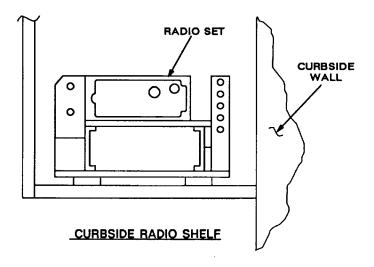


Figure 5-1. (1). MK and Radio Installation: MK Equipment Locations

#### INSTALLATION FOR AN/VRC-90A



# BRACKET ASSEMBLY RADIO SET CURBSIDE WALL CURBSIDE RADIO SHELF

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. Gasket (2). Apply a thin coat of silicone compound to both sides; then place on port and align mounting holes. See figure 5-2.

b. Antenna base (1). Place on top of gasket (2) and port; then align mounting holes.

then aligh mounting notes.

c. Four cap screws (8) and Install and secure to antenna base (1) Tools: 9/16 in socket.

four internal/external- and port.

toothed (IET) washers (7).

d. Ground strap (3), loop Install (without securing) to existing boss Tools: 1/2 in socket.

clamp (6), machine bolt (5) on curbside ceiling.

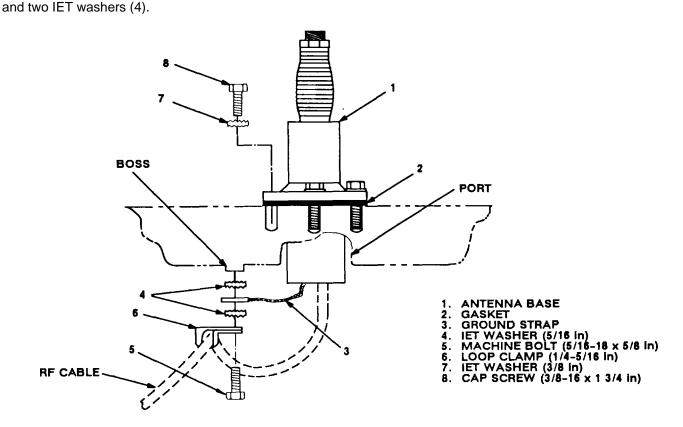


Figure 5-2. Antenna Base Installation: Forward Curbside Antenna Port

**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** Antenna elements (1, 2). Apply silicone compound to element threads and assemble. See figure 5-3. Antenna element (2). Install and hand-tighten to antenna base (3). Install to antenna element (2) and antenna base Lock wire (4). (3). See figure 5-3, detail A. Cut and remove excess wire with diagonal cutting pliers. Attach clip to antenna element (1). Tie rope to Fiber rope assembly (5). vehicle to position antenna in desired location. See figure 5-3, detail B. **DETAIL B DETAIL A** 1. ANTENNA ELEMENT (UPPER) 2. ANTENNA ELEMENT (LOWER) 3. ANTENNA BASE 4. LOCK WIRE 5. FIBER ROPE ASSEMBLY

Figure 5-3. Top Antenna Assembly Installation

**5.2 Installation of Mounting Base, Electrical Equipment MT-63521VRC (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.

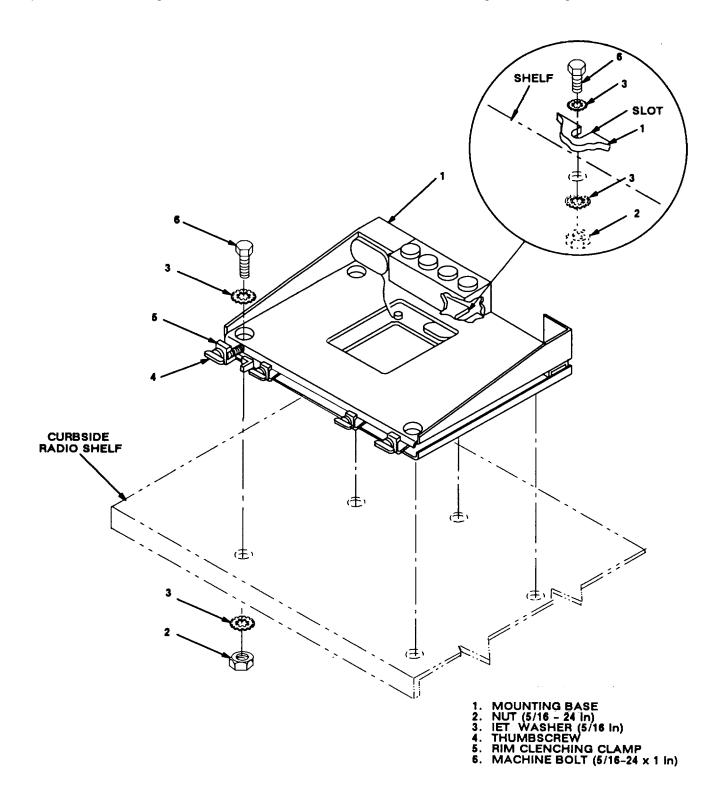


Figure 5-4. Mounting Base Installation

# 5.2 Installation of Mounting Base, Electrical Equipment MT-63521VRC (mounting base). Continued

ITEM ACTION REMARKS

#### **NOTE**

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

a. Mounting base (1). Place on curbside radio shelf. See

figure 5-4.

Two outer thumbscrews

(4).

Turn ccw until both sets of threads have cleared center of holes.

c. Mounting base (1). Aline four holes and rear slot with matching hole pattern in shelf.

d. Five machine bolts (6), Install and set ten IET washers (3) and five nuts (2).

Install and secure to mounting base Tools: 1/2 in socket and (1) and shelf. Tools: 1/2 in open/box wrench.

Two outer thumbscrews Tighten and secure to rim clenching clamps (5) and mounting base (1).

**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.

a. Power cable (1) connector
P1.
Connect and secure to power Bendix
connector. See figure 5-5.
Connect and secure to power Bendix
connector. See figure 5-5.
Connect and secure to power Bendix
connector. See figure 5-5.
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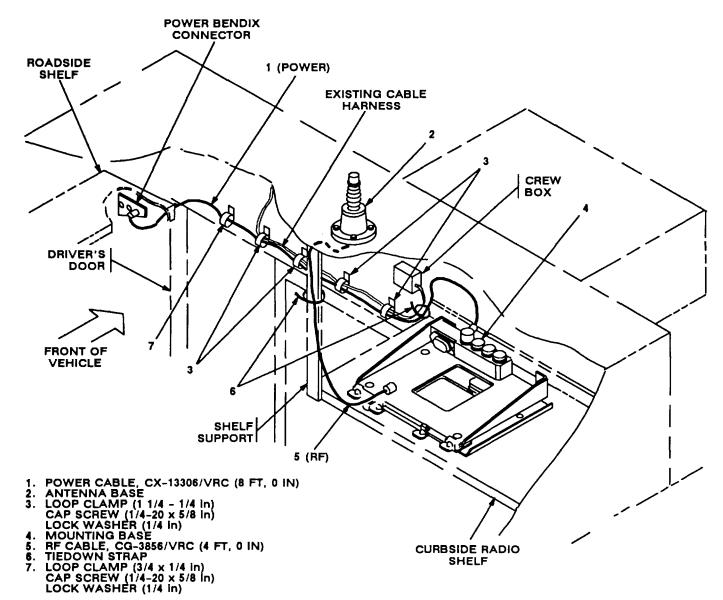


Figure 5-5. Cable Installation: Forward Wall

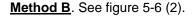
# 5.3 Installation of Cables. Continued

	ITEM	ACTION	REMARKS
C.	Power cable (1) connector P2.	Position on top of mounting base (4). See figure 5-5.	
d.	Four loop clamps (3), four cap screws (1/4-20 5/8 in) and four lock washers (1/4 in).	Wrap clamps around power cable (1); then install to existing cable harness. See figure 5-5 for location(s).	Tools: 7/16 in socket.
e.	Loop clamp (7), cap screw (1/4-20 x 5/8 in) and lock washer (1/4 in).	Wrap clamp around power cable (1); then install to existing boss above driver's door.	Tools: 7/16 in socket.
f.	RF cable (5) connector P1.	Connect and secure to antenna base (1) connector J1. See figure 5-5.	
g.	Loop clamp, ground strap and mounting hardware (installed in section 5.1.1, step d).	Remove; then wrap clamp around RF cable (5) and reinstall to existing boss.	Tools: 1/2 in socket.
h.	RF cable (5) connector P2.	Position on top of mounting base (4).	
i.	Tiedown strap (6). shelf support. See figure 5-5 for location (s).	Install loosely around RF cable (5) and	
j.	Tiedown strap (6). and existing cable harness.	Install loosely around power cable (1)	
k.	Power cable (1) connector P2.	Connect and secure to mounting base (4) connector J1. See figure 5-5.	

**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 sneaker 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 ln)
  - 2. LOCK WASHER (3/8 in)
  - 3. SPEAKER
  - 4. CAP SCREW (1/4-20 x 1 ln)
  - 5. SPEAKER BRACKET
  - 6. LOCK WASHER (1/4 In)
  - 7. NUT (114-20 ln)



#### 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.
- d. Insert speaker (3) stud through speaker bracket (5) hole; then secure with lock washer (2) and wing nut (1).

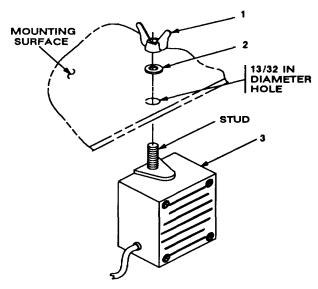


Figure 5-6 (1). Speaker Installation - A

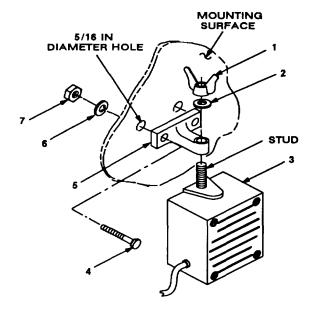


Figure 5-6. (2). Speaker installation - B

**5.5 Installation of MK-2499NRC**. For Radio Set ANNRC-90, install MK-2499NRC (TSEC/KY-57 security equipment) with mounting bracket, two multiple angle brackets and mounting hardware as shown in figure 5-7. Refer to section 5.6 for connection of cables.

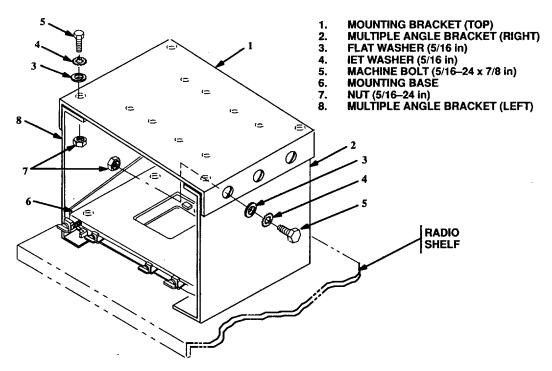
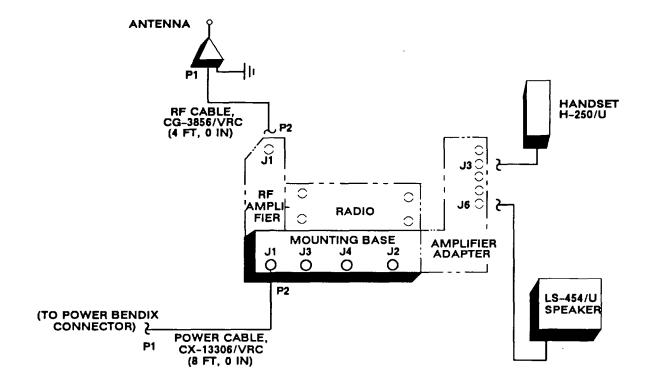


Figure 5-7. MK-2499NRC Installation

**5.6 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 5-8 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)	

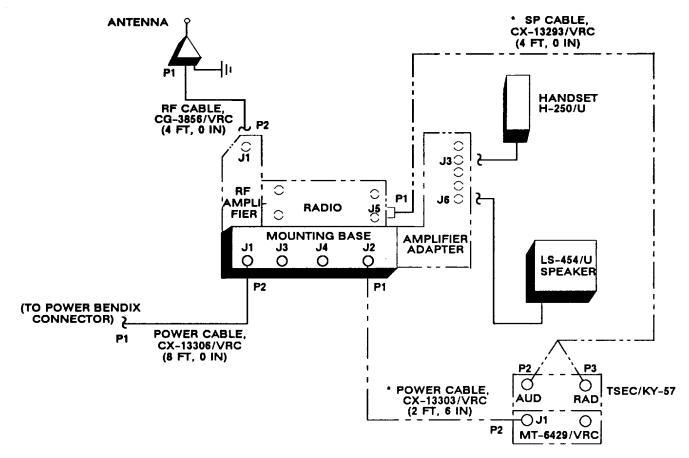
# 5.6 Post-Installation and Checkout. Continued



	FROM			то		
CABLE ASSEMBLY	CABLE CONN.	UNIT	UNIT CONN.	CABLE CONN.	UNIT	UNIT CONN.
CX-13306/VRC (8 FT, 0 IN)	P2	Mounting base	J1	P1	Power Bendix connector	
CG-3856/VRC (4 FT, 0 IN)	P1	Antenna base	J1	P2	RF amplifier	J1
Handset cable		Handset			Amplifier- adapter	J3
Speaker cable		LS-454/U speaker			Amplifier- adapter	J6

Figure 5-8. (1). Cable Diagram: For ANVRC-9OA

# 5.6 Post-Installation and Checkout. Continued



		FROM		то		
CABLE ASSEMBLY	CABLE CONN.	UNIT	UNIT CONN.	CABLE CONN.	UNIT	UNIT CONN.
CX-13306/VRC (8 FT, 0 IN)	P2	Mounting base	J1	P1	Power Bendix connector	
CG-3856/VRC (4 FT, 0 IN)	P1	Antenna base	J1	P2	RF amplifier	J1
* CX-13303/VRC (2 FT, 6 IN)	P1	Mounting base	J2	P2	MT-6429/VRC	J1
* CX-13293/VRC (4 FT, O IN)	P1	Radio	J5	P2 P3	TSEC/KY-57	AUD RAD
Handset cable		Handset			Amplifier- adapter	J3
Speaker cable		LS-454/U speaker			Amplifier- adapter	J6

Figure 5-8 (2). Cable Diagram: For ANIVRC-90

# **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, 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 11-5820-890-204	Unit Maintenance Manual (Non-ICOM Radio Sets)	
TM 11-5820-890-20P	Repair Parts and Special Tools List	

A-1

# By Order of the Secretary of the Army:

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