TECHNICAL BULLETIN



INSTALLATION INSTRUCTIONS FOR INSTALLATION KIT, ELECTRONIC EQUIPMENT, MK-2790/VRC (NSN 5895-01-416-2885) (EIC: N/A) TO PERMIT INSTALLATION OF RADIO SETS AN/VRC-92 SERIES IN A

METEOROLOGICAL MEASURING SET (MMS) AN/TMQ-41

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HEADQUARTERS, DEPARTMENT OF THE ARMY

1 SEPTEMBER 1999

*TB 11-5820-890-20-89

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INSTALLATION INSTRUCTIONS FOR INSTALLATION KIT ELECTRONIC EQUIPMENT MK-2790/VRC (NSN 5895-01-416-2885) (EIC: N/A)

TO PERMIT INSTALLATION OF RADIO SETS

AN/VRC-92 SERIES

IN

METEOROLOGICAL MEASURING SET (MMS) AN/TMQ-41

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 Form 2028-2 located in the back of this manual direct to: Commander, US Army Communications-Electronics Command Fort Monmouth, ATTN: AMSEL-LC-LEO-D-CS-CFO, Fort Monmouth, NJ 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@cecom3.monmouth.army.mil.

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

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*This manual supersedes TB 11-5820-890-20-89, dated 1 July 1997

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0.1 SCOPE.

This technical bulletin provides installation instructions for Installation Kit, Electronic Equipment MK-2790/VRC, commonly referred to as the Mounting Kit (MK). The MK shall be installed into the following type of vehicle(s):

Meteorological Measuring Set (MMS), AN/TMQ-41

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-92 Series is:

Radio Set AN/VRC-92 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 Packing 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-2790/VRC (MK) contains the items needed to mount Radio Set AN/VRC-92 Series in a Meteorological Measuring Set (MMS), AN/TMQ-41 (shelter). See Section 5.5 for instructions to install MT-6353/VRC mounting base.

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 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 items will not reflect the typical vehicle downtime.

ITEM	SECTION	TIME
Antenna AS-3900/VRC	5.1	1.0
Mounting Base, Electrical Equipment MT-6352/VRC	5.2	1.5
Cables	5.4	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 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 cover 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 in DA Pam 738-750, as contained in Maintenance Management Update.

4.3 MK, Distribution and Consumables.

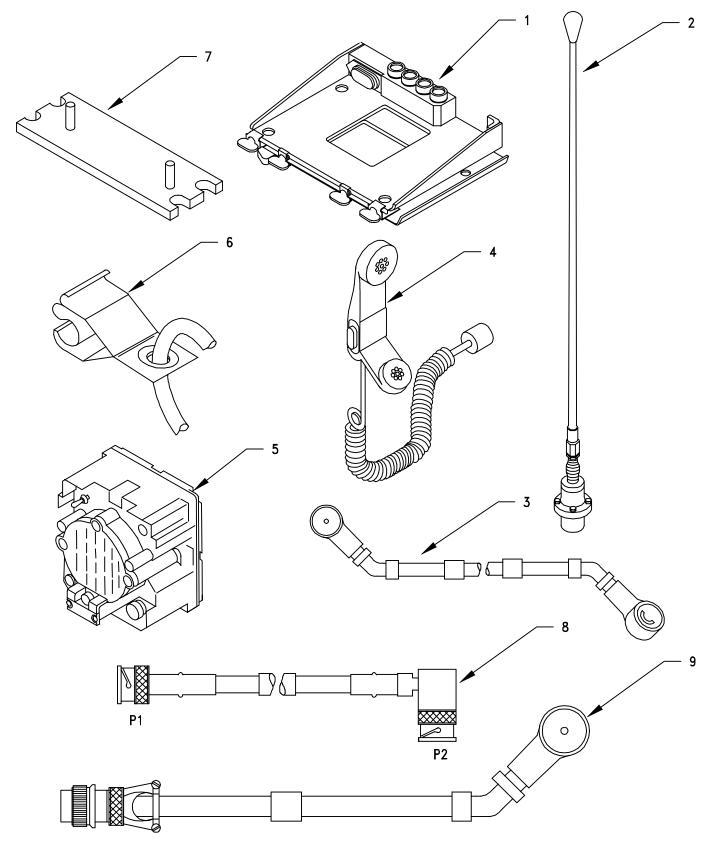
4.3.1 Items Supplied in MK and/or Required for Installation. Use Table 4-1 and Figure 4-1 to identify and inventory MK parts supplied to install Radio Set AN/VRC-92 Series.

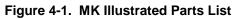
4.3.2 Distribution and Issue Instructions.

- 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.

	ITEM DESCRIPTION	QUANTITY	SMR	FIGURE,
NSN	AND PART NUMBER	IN MK	CODE	ITEM NO.
5985-01-297-2971 5305-00-847-1159	Antenna, Vehicular 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	8	PAOZZA	
5310-00-061-1258	Washer, Lock, Internal/External-Toothed (3/8 in) MS45904-76	6	PAOZZA	
5310-00-889-2527	Washer, Lock, Internal/External-Toothed (5/16 in) MS45904-72	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	
5965-01-222-1420	Loudspeaker, Control Unit LS-671/VRC (A3014065-1)	2	PAOFFA	4-1, 5
5975-01-188-8873	Mounting Base, Electrical Equipment MT-6352/VRC (A3013367-1)	1	PAOOFA	4-1, 1
5306-00-225-9089	Bolt, Machine (5/16-24 x 1 in) MS90726-34	5	PAOZZA	
5310-00-889-2527	Washer Lock, Internal/External-Toothed (5/16 in) MS45904-72	10	PAOZZA	
5310-00-880-7746	Nut, Hexagon (5/16-24 in) MS51968-5 (3 Not Used)	5	PAOZZA	
5995-01-428-6749	Cable Assembly, Power, Electrical, CX-13501/VRC (11 FT, 6 IN) (A3249863-1)	1	PAOZZA	4-1, 9
5965-00-043-3463	Handset, H-250/U	2	PAOZZA	4-1, 4
5995-01-219-4703	Cable Assembly, Special Purpose, Electrical CX-13292/VRC (4 FT, 0 IN) (A3014038-2)	1	PAOZZA	4-1, 3
5995-01-300-9291	Cable Assembly, Special Purpose, Electrical CX-13292/VRC (5 FT, 0 IN) (A3014038-7)	1	PAOZZA	4-1, 3
5995-01-225-1659	Cable Assembly, Radio Frequency, CG-3855/VRC (2 FT, 0 IN) (A3014031-9)	1	PAOZZA	4-1, 8
5995-01-219-7030	Cable Assembly, Radio Frequency, CG-3855/VRC (7 FT, 0 IN) (A3014031-3)	1	PAOZZA	4-1, 8
5995-01-226-2442	Cable Assembly, Radio Frequency, CG-3855/VRC (11 FT, 0 IN) (A3014031-16)	2	PAOZZA	4-1, 8
4020-01-341-8795	Fiber Rope Assembly, Single Leg (A3167672-1)	2	PAOZZA	4-1, 6
	Plate, Mounting (A3014550-1)	2	XBOZZA	4-1, 7

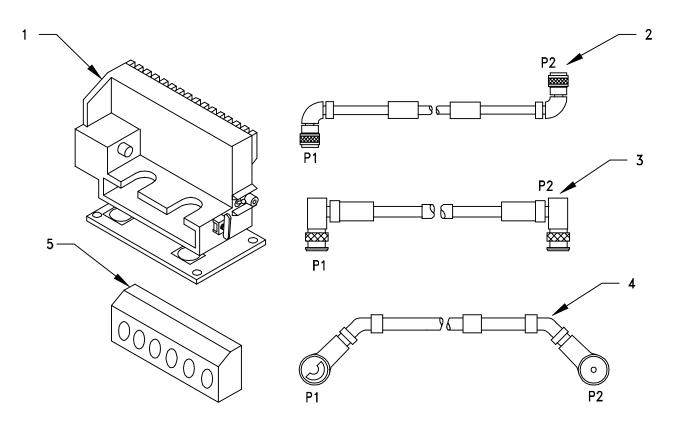
Table 4.1. Parts List for Installation of Radio Set AN/VRC-92 Series





	ITEM DESCRIPTION	QUANTITY	SMR	FIGURE,
NSN	AND PART NUMBER	IN MK	CODE	ITEM NO.
5975-01-235-1962	Mounting Base, Electrical Equipment MT-6353/VRC (A3014053-1)	1	PAOOHA	4-2, 1
5306-00-225-9089	Bolt, Machine (5/16-24 x 1 in) MS90726-34	4	PAOZZA	
5310-00-880-7746	Nut, Hexagon (5/16-24 in) MS51968-5	2	PAOZZA	
5310-00-889-2527	Washer, Lock, Internal/External-Toothed (5/16 in)MS45904-72	6	PAOZZA	
5310-00-081-4219	Washer, Flat (5/16 in) MS27183-12 (Not Used)	2	PAOZZA	
	Nut Strip (A3014064-1)	1	XBOZZA	
5975-00-111-3208	Strap, Tiedown, Electrical Components MS3367-5-9	4	PAOZZA	
5995-01-300-9324	Cable Assembly, Power, Electrical CX-13303/VRC (4 FT, 6 IN) (A3014040-9)	1	PAOZZA	4-2, 4
5995-01-222-4209	Cable Assembly, Special Purpose, Electrical CX-13291/VRC (3 FT, 0 IN) (A3014037-1)	1	PAOZZA	4-2, 2
5995-01-219-7025	Cable Assembly, Radio Frequency, CG-3856/VRC (5 FT, 0 IN) (A3014032-3)	1	PAOZZA	4-2, 3

Table 4.2. Additional Items Required for Installation of Radio Set AN/VRC-92.





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

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

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

NOMENCLATURE		NSN	QUANTITY
Radio Set*			1
Electric Grinder or equivalent			1
Pocket Knife, Electrician's		5110-00-240-5943	1
Screwdriver, No. 2 Point Phillips, 4 in		5120-00-234-8913	1
Screwdriver, 1/4 in Flatblade, 4 in		5120-00-222-8852	1
Pliers, Round Nose		5120-00-240-6172	1
Pliers, Diagonal Cutting		5110-00-965-0974	1
Wrench, Open/Box:	1/2 in 9/16 in	5120-00-228-9506 5120-00-228-9507	1 1
Handle, Socket Wrench: Socket	1/2 in 9/16 in	5120-00-240-5364 5120-00-237-0977 5120-00-227-6704	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 and 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. See Section 5.5 for instructions to install Mounting Base MT-6353/VRC.

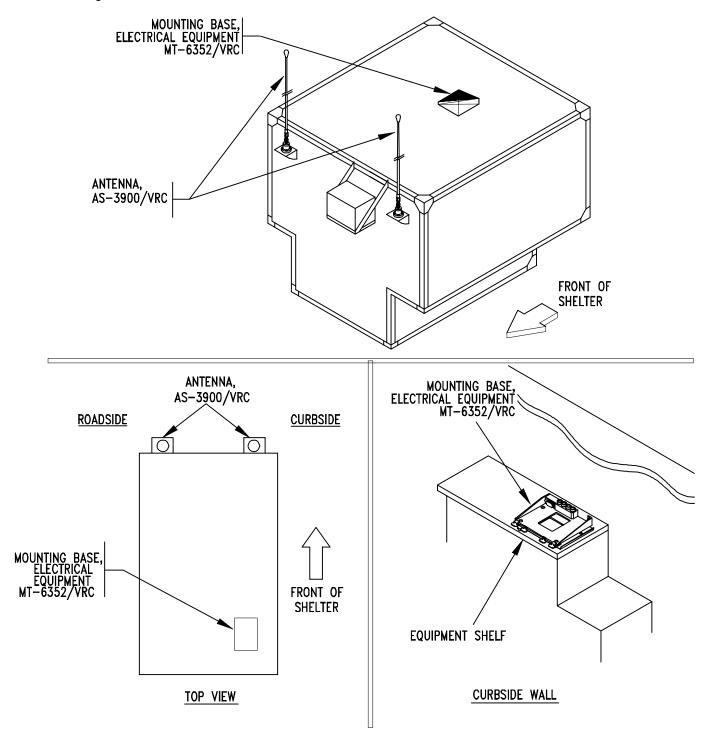


Figure 5-1(1). MK and Radio Installation: MK Equipment Locations

5. INSTALLATION PROCEDURES. Continued.

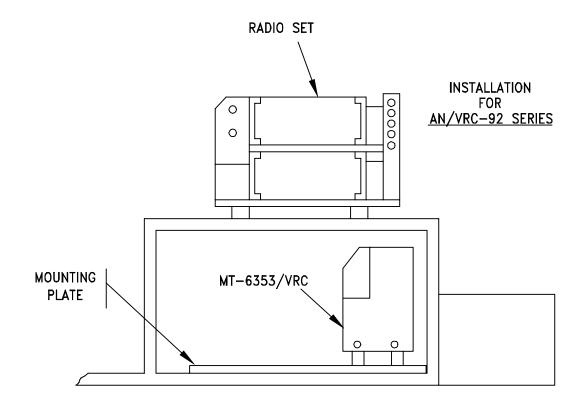


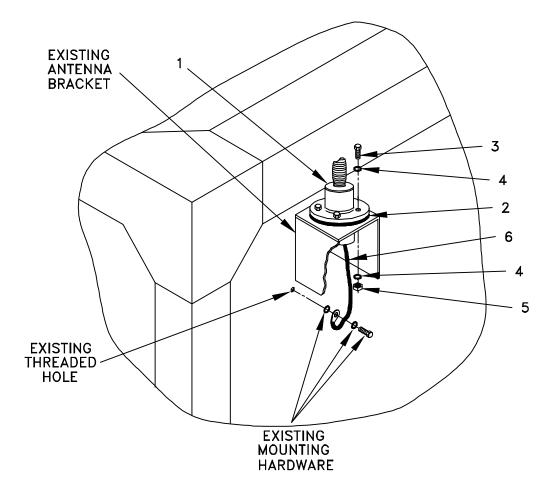
Figure 5-1(2). MK and Radio Installation: Radio Equipment Locations

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. Curbside shown, roadside is opposite hand.

	ITEM	ACTION	REMARKS
		NOTE	
		hesive-sealant to both sides of each internal/externa d to the area of contact where IET washer is to be pla	
a.	Gasket (2).	Place on existing antenna bracket and align mounting holes. See Figure 5-2(1).	
b.	Antenna base (1).	Place on top of gasket (2) and existing antenna bracket; then align mounting holes>	
C.	Four cap screws (3), eight internal/external- toothed (IET) washers (4) and four nuts (5).	Install and secure to antenna base (1) and existing antenna bracket.	Tools: 9/16 in socket and 9/16 in open/box wrench
d.	Ground strap (6) and existing hardware.	Install and secure to the existing threaded hole in the shelter wall. See Figure 5-2(1).	

5.1.1 Installation of Antenna Base. Continued.



- 1. ANTENNA BASE
- 2. GASKET
- 3. CAP SCREW (3/8-16 x 1 3/4 IN)
- 4. IET WASHER (3/8-IN)
- 5. NUT (3/8-16 IN)
- 6. GROUND STRAP (P/O ANTENNA)



5.1.2 Installation of Top Antenna Assembly. The top portion of the antenna includes a lower element and an upper element (with installed cap). Use the following procedure to assemble, install and tie down all antennas.

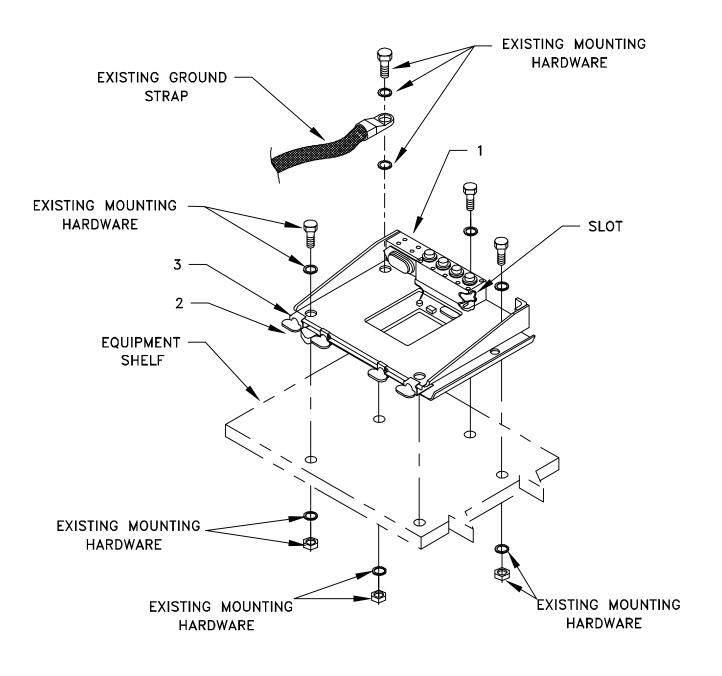
	ITEM	ACTION	REMARKS
a.	Antenna elements (1, 2.	Apply silicone compound to element threads and assemble. See Figure 5-3.	\bigcirc
b.	Antenna element (2).	Install and hand tighten to antenna base (3).	Ű
c.	Lock wire (4).	Install to antenna element (2) and antenna base (3). See Figure 5-3, Detail A.	
		Cut and remove excess wire with diagonal cutting pliers.	
d.	Fiber rope assembly (5).	Attach clip to antenna element (1). Tie rope to vehicle to position antenna in desired location. See Figure 5-3, Detail B.	
	5		
	6		
2.	ANTENNA ELEMENT (U ANTENNA ELEMENT (L ANTENNA BASE		

- 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-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 mounting plate should be removed before installing the mounting base. See Figure 5-1(1) for location; then see Figure 5-3 and perform the following steps.

	ITEM	ACTION	REMARKS
		NOTE	
		dhesive-sealant to both sides of each internal/externated to the area of contact where IET washer is to be pl	
a.	Existing equipment shelf.	Temporarily remove the existing mounting hardware and ground strap. Remove a 2" square area of paint on the underside of the mounting base (3) around left front and rear mounting holes. Remove a 2" square area of paint on the existing shelf around the mounting holes drilled in step a that mate with left front and rear mounting holes of mounting base (3). Clean the paint removed areas and apply a thin coat of conductive anti-seize compound.	
b.	Mounting base (1).	Place on equipment shelf over existing holes. See Figure 5-3.	
C.	Two outer thumbscrews (2).	Turn ccw until both sets of threads have cleared center of holes.	
d.	Mounting base (1).	Align four holes and rear slot with matching hole pattern in shelf>	
e.	Mounting base (1), existing mounting hardware and existing ground strap.	Install and secure to mounting base (1) and shelf.	
f.	Two outer thumbscrews (2).	Tighten and secure to rim clenching clamps (3) and mounting base (1)	



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

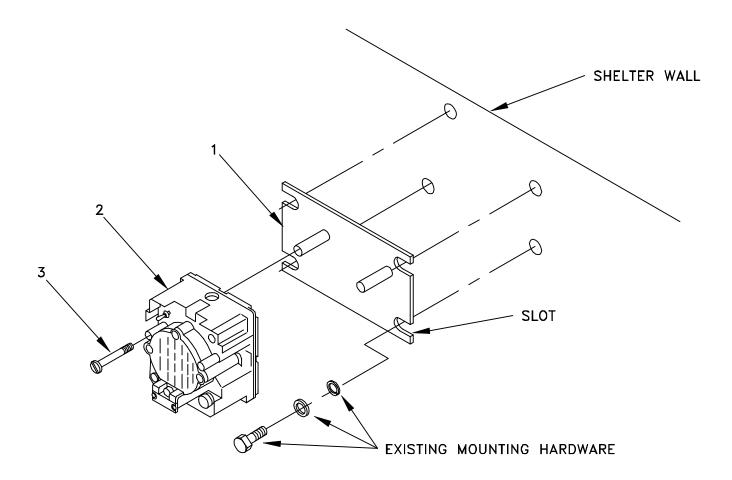
- 1. MOUNTING BASE
- 2. THUMBSCREW
- 3. RIM CLENCHING CLAMP



5.3 Installation of Loudspeaker, Control-Unit, LS-671/VRC (speaker). Use the following procedure to install both speakers

	ITEM	ACTION	REMARKS
a.	Mounting plate (1).	Align slots over existing holes in shelter wall. See Figure 5-4. See Figure 5-5(2) for locations.	
b.	Mounting plate (1) and existing mounting hardware.	Install and secure to shelter wall.	Tools: 1/2 in socket.
c.	Speaker (2).	Place on mounting plate (1).	
d.	Two externally-relieved body screws (3).	Thread through and secure to speaker (2) and mounting plate (1).	Tools: Flatblade screwdriver.
e.	Handset.	Connect and secure to speaker (2) connector J2.	
f.	Steps a through e.	Repeat to install remaining speaker.	

5.3 Installation of Loudspeaker, Control Unit, LS-671/VRC (speaker). Continued



- 1. MOUNTING PLATE
- 2. SPEAKER
- 3. EXTERNALLY RELIEVED BODY SCREW(P/O SPEAKER)

Figure 5-4. Speaker Installation

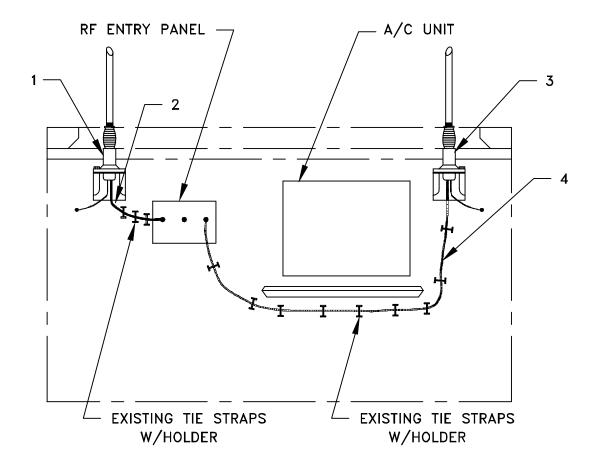
5.4 Installation of Cables. To accomplish the installation, leave loop clamps and tiedown straps loose enough to adjust cable slack and allow easy adjustment of equipment. When installation is complete, tighten and secure all clamps, clips and tiedown straps.

WARNING

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

	ITEM	ACTION	REMARKS
a.	RF cable (2) connector P1.	Connect and secure to curbside antenna base (1) connector J1. See Figure 5-5(1).	
b.	RF cable (4) connector P1.	Connect and secure to roadside antenna base (3) connector J1. See Figure 5-5(1).	
C.	RF cable (2) and three existing tie straps.	Wrap tie straps around RF cable (2) and secure to existing tie strap holders. Connect and secure connector P2 to RF entry panel. See Figure 5-5(1).	
d.	RF cable (4) and nine existing tie straps	Wrap tie straps around RF cable (4) and secure tie straps to existing tie strap holders. Connect and secure connector P2 to RF entry panel. See Figure 5-5(1).	
e.	RF cables (1,2) connector P1.	Connect and secure to RF entry panel. See Figure 5-5(2).	
f.	RF cables (1,2).	Route cables down and over to curbside shelter wall and then rearward. See Figure 5-5(2).	
g.	RF cable (1) connector P2.	Position on left side of mounting base (3).	
h.	RF cable (2) connector P2.	Route to lower equipment shelf and position on left side. See Figure 5-5(2).	
i.	Speaker cable (4) connector P1.	Connect and secure to speaker (5) connector J1. See Figure 5-5(2).	
j.	Speaker cable (4) connector P2.	Connect and secure to mounting base (3) connector J3.	
k.	Speaker cable (6) connector P1.	Connect and secure to speaker (7) connector J1.	
I.	Speaker cable (6) connector P2.	Connect and secure to mounting base (3) connector J4>	
m.	Four existing cable clamps.	Wrap around speaker cables (4,6) and secure. See Figure 5-5(2) for locations.	
n.	Power cable (8).	Connect and secure to mounting base (3) connector J1. Route forward along curbside wall to front of shelter then toward roadside along shelter wall and position in the rear of existing power supply. See Figure 5-5(2).	

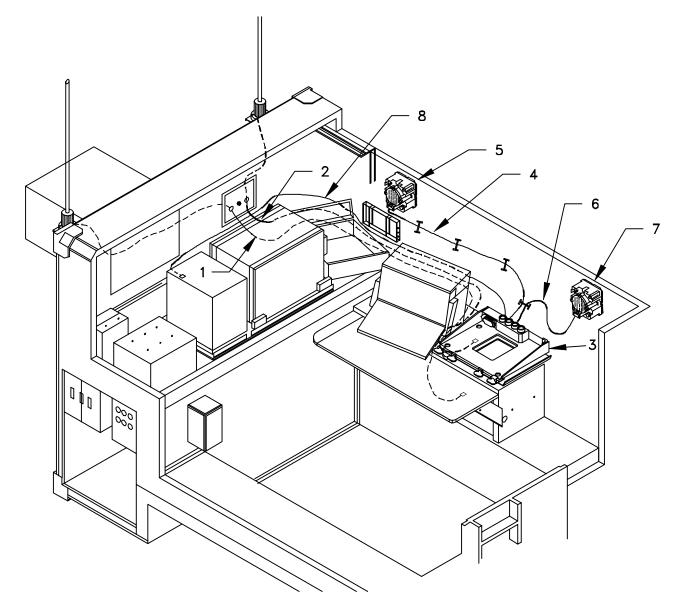
5.4 Installation of cables. Continued



- 1. ANTENNA BASE (CURBSIDE)
- 2. RF CABLE, CG-3855/VRC (2 FT, 0 IN)
- 3. ANTENNA BASE (ROADSIDE)
- 4. RF CABLE, CG-3855/VRC (7 FT, 0 IN)

Figure 5-5(1). Cable Installation: External RF Cabling

5.4 Installation of Cables. Continued.



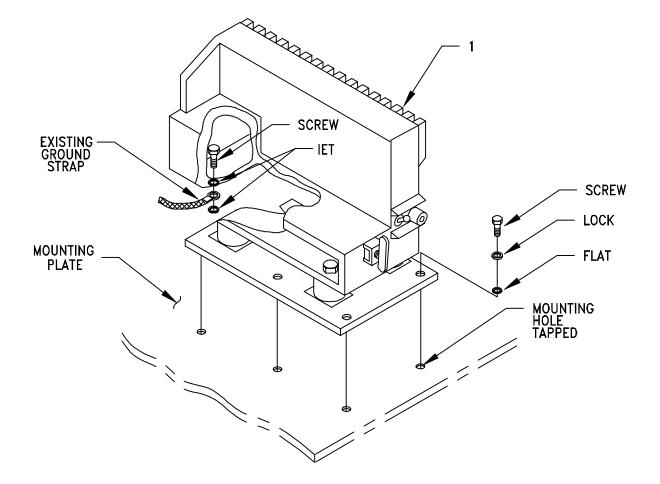
- 1. RF CABLE, CG-3855/VRC (11 FT, 0 IN))
- 2. RF CABLE, CG-3855/VRC (11 FT, 0 IN)
- 3. MOUNTING BASE)
- 4. SPEAKER CABLE, CX-13292/VRC (5 FT, 0 IN)
- 5. SPEAKER (LEFT)
- 6. SPEAKER CABLE, CX-13292/VRC (4 FT, 0 IN)
- 7. SPEAKER (RIGHT)
- 8. POWER CABLE, CX-13501/VRC (11 FT, 6 IN)

Figure 5-5(2). Cable Installation: Interior Cabling

5.5 Installation of Mounting Base, Electrical Equipment MT-6353/VRC. Use the following instructions to install MT-6353/VRC mounting base in the location shown in Figure 5-1(2). Refer to Figure 5-6(2) for routing of cables. Refer to Section 5.6 for connection of cables.

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. Before proceeding, connect and secure CX-13291/VRC control cable and CX-13303/VRC power cable to MT-6353/VRC mounting base. (Refer to Section 5.6, step b.)							
a. Existing mounting plate and MT-6353/VRC mounting base (1).	Remove a 2" square area of paint on the underside of mounting base (1) around the from two mounting holes. Remove a 2" square area of paint on the shelf around the two front mounting holes. Clean the paint removed areas and apply thin coat of conductive anti-seize compound.	nt equivalent. of Ig					
. MT-6353/VRC mountir base (1).	Place on mounting plate over existing holes. Se Figure 5-6(1).	e					
MT-6353/VRC mountin base (1).	g Align holes and rear slot with matching hol pattern in mounting plate. See Figure 5-6(1)	le					
 MT-6353/VRC mountin base (1), existing mounting hardware and existing ground strap 	5-6(1).	e Tools: 1/2 in open/box wrench					
 Control cable (1) connector P2. 	Route down shelter wall and through hole in lowe equipment shelf, and position near MT-6353 (3 See Figure 5-6(2).						
Two existing cable clamps.	Insert in existing holder and wrap loosely aroun control cable (1). See Figure 5-6(2).	d					

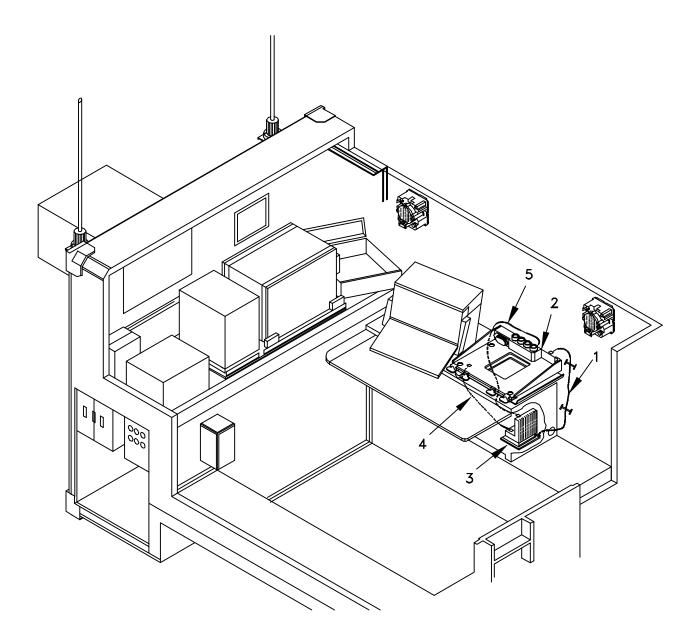
5.5 Installation of Mounting Base, Electrical Equipment MT-6353/VRC. Continued.



1. MOUNTING BASE

Figure 5-6 (1). MT-6353/VRC Mounting Base Installation

5.5 Installation of Mounting Base, Electrical Equipment MT-6353/VRC. Continued.



- 1. CONTROL CABLE, CX-13291/VRC (3 FT, 0 IN)
- 2. MOUNTING BASE
- 3. MT-6353
- 4. RF CABLE, CG-3856/VRC (5 FT, 0 IN)
- 5. POWER CABLE, CX-13303/VRC (4 FT, 6 IN)

Figure 5-6 (2). MT-6353 Cabling

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 5-7 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) checks and instructions.	
f.	MK line replaceable units.	See TM 11-5820-890-20P for Repair Parts and Special Tools List (RPSTL) information.	



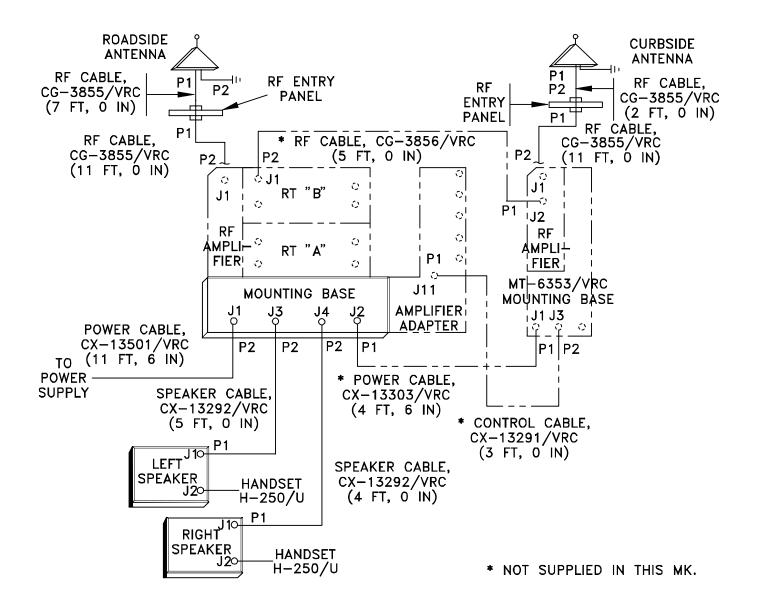


Figure 5-7. Cable Diagram: For AN/VRC-92 Series

	FROM			ТО		
CABLE	CABLE	UNIT	UNIT	CABLE	UNIT	UNIT
ASSEMBLY	CONN.		CONN.	CONN.		CONN.
CX-13501/VRC (11 FT, 6 IN)	P2	Mounting base	J1	P1	Power supply	
CG-3855/VRC (7 FT, 0 IN)	P1	Roadside antenna base	J1	P2	RF entry panel	
CG-3855/VRC (2 FT, 0 IN)	P1	Curbside antenna base	J1	P2	RF entry panel	
CG-3855/VRC (11 FT, 0 IN)	P1	RF connector (inside shelter)		P2	RF amplifier	J1
CG-3855/VRC (11 FT, 0 IN)	P1	RF connector (inside shelter)		P2	RF amplifier (MT-6353/VRC)	J1
CX-13292/VRC (5 FT, 0 IN)	P2	Mounting base	J3	P1	Speaker (left)	J1
CX-13292/VRC (4 FT, 0 IN)	P2	Mounting base	J4	P1	Speaker (right)	J1
*CX-13291/VRC (3 FT, 0 IN)	P1	Amplifier-adapter	J11	P2	MT-6353/VRC mounting base	J3
*CG-3856/VRC (5 FT, 0 IN)	P2	RT "B"	J1	P1	RF amplifier (MT-6353/VRC)	J2
*CX-13303/VRC (4 FT, 6 IN)	P1	Mounting base	J2	P2	MT-6353/VRC mounting base	J1

5.6 Post-Installation and Checkout. Continued.

Not supplied in this MK.

Figure 5-7. Cable Diagram: For AN/VRC-92 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, 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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2-25	2-28			Recommend that the installation be changed throughout to spetthan 10	ion antenna alignment procedure cify a 20 IFF antenna lag rather		
3-10 3-3 3-10 3-3 3-10 3-10 REASON: Experience has shown the antenna servo system is too sensitive to to of 25 knots, and has a tendency to rapidly decelerate as it hunts, caular strain to the is minimized by adjusting the g to 20 with operation. Item 5, Functional comm. Change REAS the digustment procedure for FAULT. The procedure for FAULT. The procedure for FAULT. The procedure for FAULT. The procedure for the TRAN BOWER FAULT indicator.					nown the wath only a 10 lag, the ensitive to the gusting in excess cy to rapidly accelerate and strain to the drive train. Hunting or to 20 without degradation of		
3-10	3-3		3-1	Item 5, Fractional co	Change $\Box 2 dB$ " to $\Box 3 dB$ ".		
			5 1	FAULT the pr call for a 3 d the TRAN POWER FAULT	procedure for the TRANS POWER IB (500 watts) adjustment to light indicator.		
5-6	5-8			And new step f.1 to read, step d above."	Replace cover plate removed in		
FO-3				REASON: To replace the cover plate.			
				ZONE C 3. On J1-2, change \Box +24 VDC" to \Box +5 VDC".			
				REASON: This is the output +24 VDC is the input voltage	line of the 5 VDC power supply.		
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