TM 11-2300-373-14-5

INSTRUCTIONS FOR INSTALLATION KIT, ELECTRONIC EQUIPM MK-1239/VRC-12 IN TRUCK, CARGO, 1 1/4-TON, M715 (RADIO SET, AN/VRC-12).

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CHAPTER 1 INTRODUCTION

1-1. Scope This manual provides :instructions for the installation of Installation Kit, Electronic Equipment MK-1239/VRC-12 FSN 5820-469-6683, in Truck, Cargo, 1-1/4 Ton, M715. This installation kit permits mounting of Radio Set AN/VRC-12.

NOTE Refer to SB 11-131 for a complete listing of vehicular radio sets and authorized installations.

1-2. Destruction of Army Material to Prevent Enemy Use Refer to TM 740-244-2 for instructions in the destruction of equipment to prevent enemy use.

1-3. Maintenance Forms and Records Department of the Army forms and records used for equipment maintenance will be those prescribed by TM 38-750.

1-4. Reporting of Equipment Publication Improvements The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA- CR, Fort Monmouth, NJ 07703.

CHAPTER 2 INSTALLATION

Section I. SERVICE UPON RECEIPT OF MK-1239/VRC-12

2-1. Unpacking and Checking MK-1239/VRC-12 Items

a. Move the packing boxes close to the location where the installation is to take place and unpack the parts of the MK-1239/VRC-12. Be careful not to lose any of the parts.

b. Inspect the items for damage incurred during shipment. If any of the items have been damaged, report the damage on DD Form 6 (Report of Packaging and Handling Deficiencies) as prescribed in AR 700-58 c. Check the equipment against the listing in paragraph 2-2 and the packing slip to see if the shipment is complete. The equipment should be placed in service even though a minor assembly or part that does not affect proper installation is missing.

d. When wheeled vehicles with radio sets are to be turned in or transferred, the radio sets and the installation kit will be removed and reinstalled in the new replacement vehicle. Refer to SB 11-131 if the radio set is to be installed in another type of vehicle. It should be noted that both the basic radio set and the MK-1239/VRC-12 are separate accountable items and are not considered part of the vehicle.

2-2. Items Comprising Installation Kit, Electronic Equipment MK-1239/VRC-12 The items which comprise MK-1239/VRC-12 are listed in table 2-1. A Federal stock number (FSN) has been provided for each item. Tables 2-2 through 2-6 list the items in the mountings, clamp strap, sheet metal screw clamp, and audio accessory support kits.

 Table 2-1. Items Comprising Installation Kit, Electronic Equipment MK-1239/VRC-12

FSN	Item	Quantity	Length	Remarks
5820-892-3340	Control, Radio Set C-2299/VRC	1		MIL-C-55126

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5820-892-3343	Control, Frequency Selector C-2742/VRC	1		MIL-C-55126
	Bracket Assembly	1		SC-C-189025
	Base, Antenna AB-243/G	1		SC-C-28642
5820-740-1780	Support Assembly	1		SC-D-189023
5820-937-7212		2		SC-B-425939
5820-763-2463		1		SC-B-189026
5820-937-7227		1		SC-D-425918
	Bond Strap (GP III)	2		SC-B-75180
	Cable Assembly, Radio Frequency CG-1773B/U	1	4 ft	SM-D-415563
	Cable Assembly, Radio Frequency CG-1773B/U	1	8 ft	SM-C-415563
5995-823-2820	Cable Assembly, Special Purpose, Electrical CX-4722/VRC	1	7 ft	SM-D-415552
	Cable Assembly, Special Purpose, Electrical CX-7059/VRC	1	13 ft	SM-D-415559
	Cable Assembly, Special Purpose, Electrical CX-4723/VRC	1	15 ft	SM-D-415553
	Cable Assembly, Special Purpose, Electrical CX-7867A/VRC	1	13 ft	SC-D-436058
	Clamp Strap Kit (table 2-2)	3		
	Grommet, Rubber	2		MS-35489-53
	Grommet, Rubber	1		MS-35489-120
	Headset Electrical, H-140B/U	1		MIL-E-55119
	Microphone, Dynamic, M-80C/U	·		MIL-E-55119
	Insulator IL-2/U	1		SC-D-8469
	Loudspeaker, Permanent Magnet LS-454/U	2		MIL-L-12632
	Grommet, Rubber	2		MS-35490-87
5820-875-0940	Mounting Bracket Assembly	1		SC-C-425873
	Mounting Bracket Assembly	1		SC-C-425876
	Sheet Metal Screw Clamp Kit (table 2-3)	2		
	Adapter, Connector UG-306B/U	1		MS-35368
	Bracket Assembly	1		SC-D-19763
	Audio Accessory Support Kit (table 2-4)	1		SC-D446095
	Seat Bracket Assembly	1		
	Support Assembly	1		SC-D446096
	Brush Guard Assembly	1		SC-D-446094
	Screw, Hex, Hd, 5/16-24 x 3/4 Ig	4		MS-90726-3
	Lockwasher, 5/16 ET	4		MS45904-72
	Nut, Hex, 5/16-24	4		MS-35690-522
	Screw, Hex Hd, 1/4-28 x 3/4 Ig	4		MS-90726-6
	Lockwasher, 1/e IET	4	1	MS-45904-68
	Nut, Hex, 1/4-28	4		MS-35690-422
	Loop, Strap Fastener	1		MS-51939-2
	Nut, Plain, Tex, #10-32	2	,	MS-35650-102
	Screw, Pan Hd. 10-32 x 1/2 lg	2		MS-35207-263
	Washer, Flat, #10	2		MS-27183-8
	Antenna Tip Assembly (for AT-1095/VRC)	1		SC-C-446180
	Antenna Tip Assembly (for MS-118A)	1		SC-C-446046

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5935-149-3534	Adapter UG-273/U	1		MIL-C-3608 (RD49F389)
5820-497-9644	Bag CW-206/GR	1		MIL-B-12325 (SC-DL-23003)
5995-823-2726	Cable Assembly, Power, Electrical CX-4720-/VRC	1	10 ft	SM-D-415550
5995-823-2725	Cable Assembly, Power, Electrical CX-4721/VRC	1	2.5 ft	SM-D-415551
5985-221-5544	Mast Base AB-15/GR	1		MIL-M-12320 SC-DL-100581
5820 100 8831	Mast Section MS-116A	1		MIL-M-12320
3820-177-8851	Wast Section WIS-110A	1		SC-DL-100588
5820-199-8843	Mast Section MS-117A	1		MIL-M-12320 SC-DL-100588
5820-199-8841	Mast Section MS-118A	1		MIL-M-12320 SC-DL-100588
5820-893-1323	Mounting MT-1029/VRC (table 2-5)	1		
5820-893-1324	Mounting MT-1898/VRC (table 2-6)	1		
5820-937-7219	Strip Assembly	2		SC-D-446112

Table 2-2. Clamp, Strap Kit (FSN 5820-752-5738)

Item	Quantity	Remarks
Clamp, strap	3 ft	SC-B-35513
Nut, Plain, hexagon; carbon steel, cad pl; 1/4-28 UNF-2B; 7/32 nom thk	12	MS 35690-422
Washer, lock, flat; heavy; int teeth; .045 max thk; 1/4 nom size	12	MS 35334-19
Clamp strap fastener assembly		12 SC-C-279924 (Group I)

NOTE Dimensions are in inches

Table 2-3. Sheet Metal Screw Clamp Kit (FSN 5820-078-3895)

Item	Quantity	Remarks
Clamp strap	3 ft	SC-B-35513
Clamp strap fastener assembly	12	SC-C-279927 (Group 1)

Table 2-4. Audio Accessories Support Kit (FSN 5820.856-9165)

Item	Quantity	Remarks
Cloth mailing bag 3 1/2" by 5", with draw string and tag attached Printing on tag to read as follows: "Audio accessories kit FSN 5820-856-9165. To be installed in the vehicle at discretion of user."	1	Commercial
Hook, steel	2	SC-A-5276
Screw pan hd. sheet metal #8 3/4 inch lg	5	MS-24637-25
Screw pan hd. machine screw 8-32 x 3/4 inch Ig	5	MS-35223-47
Washer, lock, ET #8	5	MS-45904-57
Nut, hex 8/32	3	MS-35649-82

NOTE: Cloth mailing bag contains above hardware items.

Table 2-5. Mounting MT-1029()/VRC (FSN 5820.893-1323)

Quantity Remarks

Cover, dust FSN 5935-933-3752	3	SM-B104328
Mounting Hardware Kit for Mounting MT-1029 () /VRC includes:		SC-B-415045
Bag, cotton, (container for hardware)	1	SM-B-415047
Screw, cap; hex, cad, pl; 5/16-24 x 1 1/4 inch	5	SM-C-415048-1
Screw, cap; hex, cad, pl; 5/16-24 x 3/4 inch	5	SM-C-415048-3
Washer, lock; flat, 5/16 inch., external tooth. cad, pl, Finish M225 per MIL-F-14072	10	MS-35335-6
Nut, hex; Class 3, Type II, cad, pl, per Spec., QQ-P-416 Finish M225 per MIL-F-14072	5	MS-35690-522
Terminal, lug, solder; H- B. Sherman Co. # 316, or equal	2	Commercial

Table 2-6. Mounting MT-1898()/VRC (FSN 5820-893-1324)

Item	Quantity	Remarks
Cover, dust FSN 5935-933-3752	3	SM-B-104328
Mounting Hardware Kit for Mounting MT-1898()/VRC includes:		SC-B-415087
Cover, electrical connector FSN 5935-911-2323	1	SC-C-555860
Bag, cotton; (container for hardware)	1	DDD-B-20
Screw, cap; hex, cad. pl; 5/16-24 x 1 1/4 inch	4	MS-35292-36
Screw, cap; hex, cad. pl; 5/16-24 x 3/4 inch	4	MS-35392-32
Washer, lock; flat, 5/16 inch external tooth	8	MS-35335-34
MS-35335-34 Nut, hex; Class 3, Type II, cad, pl; per Spec., QQ-P-416	4	MS-35690-522

Section II. INSTALLATION OF MK-1239/VRC-12

2-3. Tools Required for Installation.

The tools required for installation of MK-1239/VRC-12 are contained in Tool Kit, Electronic Equipment TK- 100/G, FSN 5180-605-0079. The following additional items are needed: a. One 3/8-inch twist drill FSN 5133-277-9666.

- b. One 3/8-inch portable electric drill FSN 5130-293-3456.
- c. Chassis punches (Greenlee), 1 1/16-inch, and 1 1/4-inch. See Note.

2-4. Installation Instructions

a. To accomplish the installation follow the instructions shown on figures FO-1 (1), and FO-1 (2).

b. The following additional information is provided:

(1) To drill the correct size holes for the sheet metal screws which hold the plastic cable clamps, select a drill bit that is slightly smaller in diameter than screw.

(2) When the installation is completed, check the tightness of all bolts and screws.

c. Refer to technical manuals supplied with Radio Set AN/VRC-12 for operation and maintenance instructions.

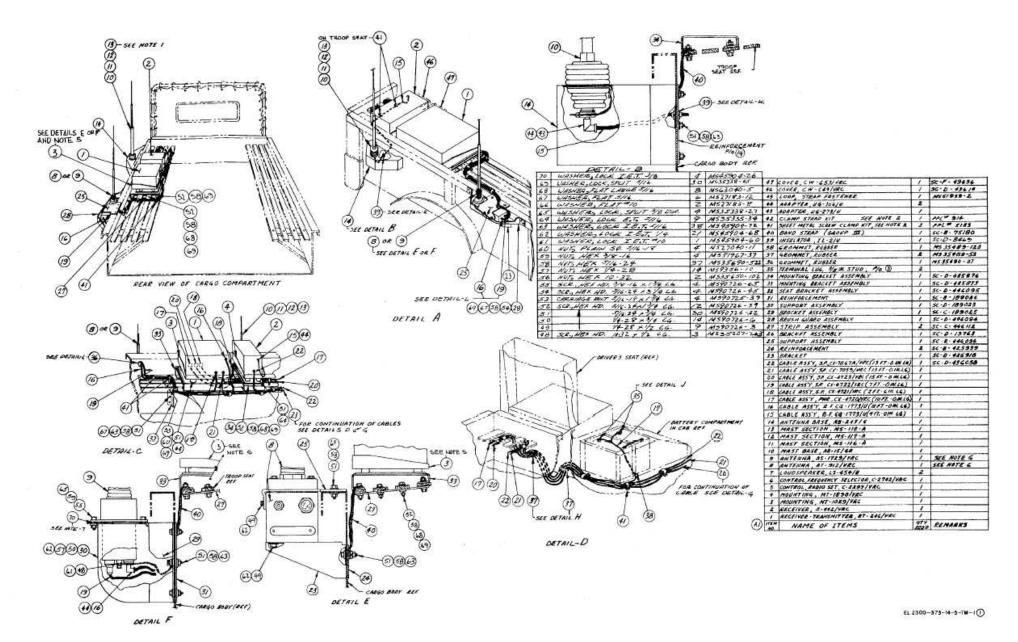
NOTE: The FSN's for 1 1/16" and 1 1/4" chassis punches are 5110-180-0915, and 5110-2930103, respectively.

APPENDIX REFERENCES

AR700-58	Report of Packing and Handling Deficiencies.
DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (Types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.
DA Pam 310-7	U.S. Army Equipment Index of Modification Work Orders.
SB 11-131	Vehicular Radio Sets and Authorized Installations.
SB 11-573	Printing and Preservation Supplies Available for Field Use for Electronics Command Equipment.
SB 38-100	Preservation, packing, Packing and Marking Materials, Supplies, and Equipment used by the Army.
SC 5180-91-CL-S21	Sets, Kits, and Outfits Component List: Tool Kit, Electronic Equipment TK- 100/G

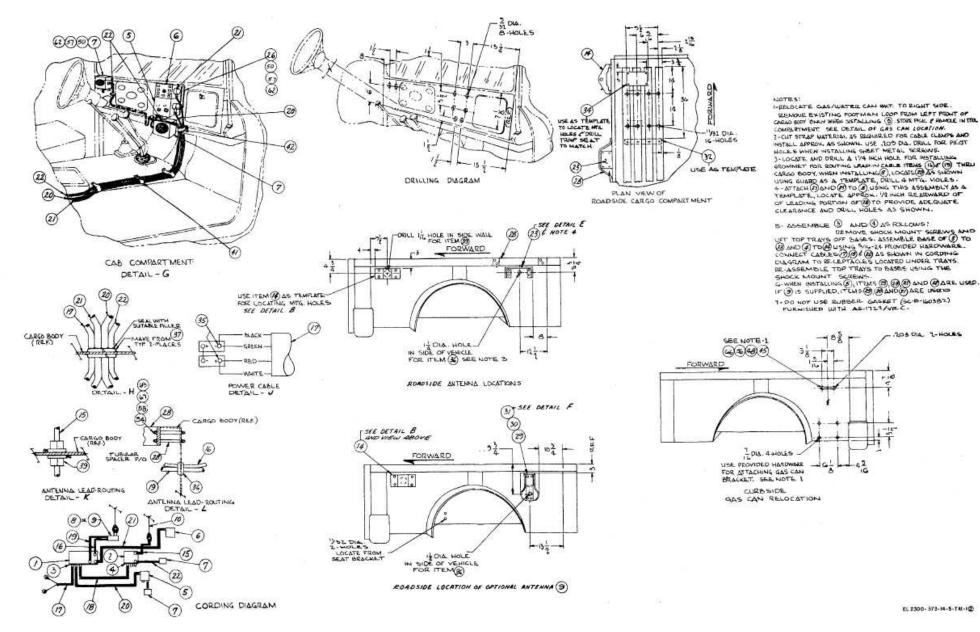
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TB 746-10	Field Instructions for Painting and Preserving Electronics Command Equipment.
I B SIG /91	Safety Measures to be Observed when Installing and Using Whip Antennas, Field Type Masts, Towers Antennas, and Metal Poles that are Used with Communication, Radar and Direction Finder Equipment
TM 11-5820-401-12	Operator s and Organizational Maintenance Manual Including Repair Parts and Special Tool Lists: Radio Sets AN/VRC-12, and AN/VRC-43, 44, -45, -46, -47, -48, and -49.
TM 11-5820-401-35	DS, GS, and Depot Maintenance Manual Including Repair Parts and Special Tool Lists: Radio Sets AN/VRC-12 and AN/VRC-43, -44, -45, -46, -47, -48, and -49.
TM 38-750	The Army Maintenance Management System (TAMMS).
TM 750-244-2	Procedures for Destruction of Electronics Material to Prevent Enemy Use (Electronics Command).



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Figure FO-1 (1). Installation of Radio Set AN/VRC-12 in truck, cargo, 1 1/4 ton, 4x4, M715.



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Figure FO-1 (2). Installation of Radio Set AN/VRC.12 in truck, cargo, 1 1/4 ton, 4x4, M715.

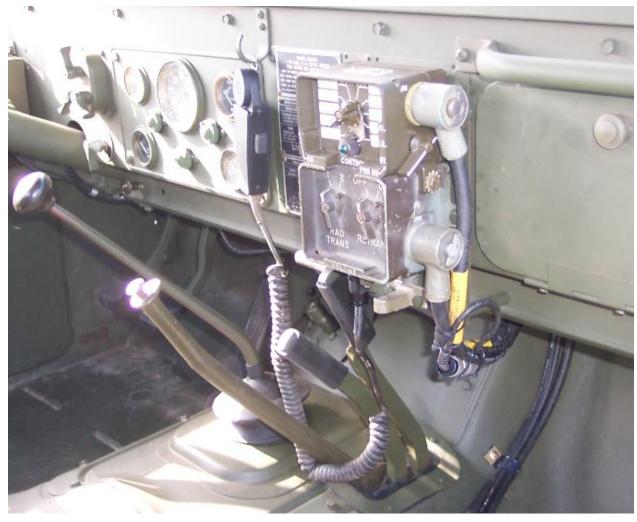
Thanks to our member Hondo, we have this excellent set of pictures of this original military radio setup installed on his M715. NICE WORK HONDO!!

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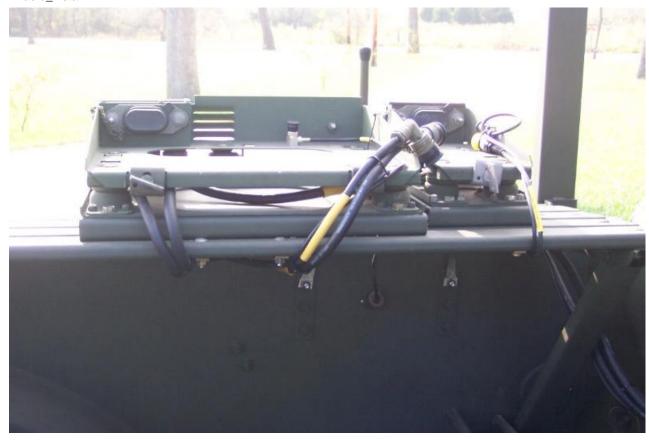




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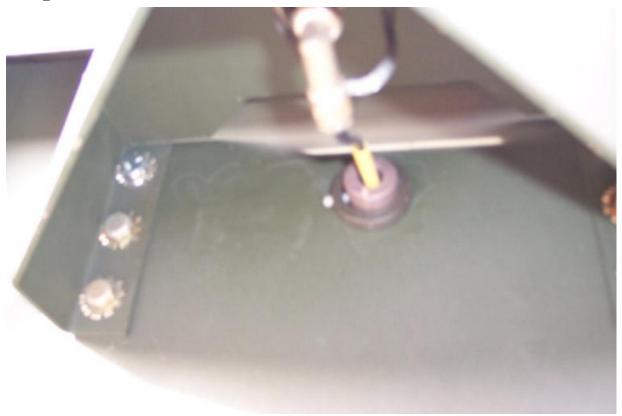


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