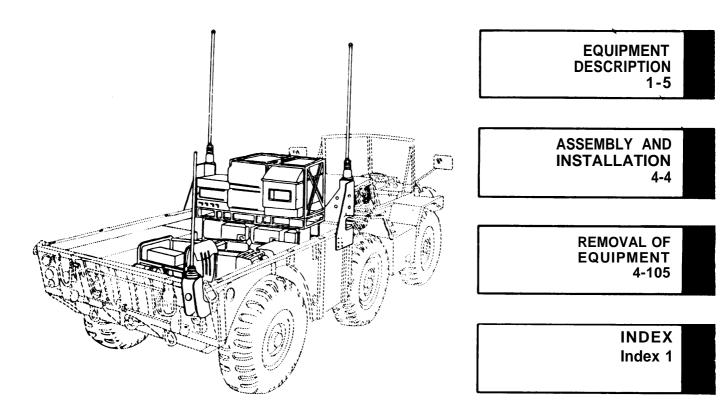
TECHNICAL MANUAL

OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE



ELECTRONICS EQUIPMENT
INSTALLATION KIT MK-1819/GSG-10(V)
(NSN 1290-01-070-8907)
AND
POWER ACCESSORY KIT MK-1821/GSG-10(V)
(NSN 1290-01-071-4343)
IN
CARGO TRUCK 1 1/4 TON M561

HEADQUARTERS, DEPARTMENT OF THE ARMY
1 JUNE 1983



- 1 DO NOT TRY TO PULL OR GRAB THE INDIVIDUAL
- 2 IF POSSIBLE, TURN OFF THE ELECTRICAL POWER
- 3 IF YOU CANNOT TURN OFF THE ELECTRICAL POWER, PULL, PUSH, OR LIFT THE PERSON TO SAFETY USING A WOODEN POLE OR A ROPE OR SOME OTHER INSULATING MATERIAL
- SEND FOR HELP AS SOON AS POSSIBLE
- AFTER THE INJURED PERSON IS FREE OF CONTACT WITH THE SOURCE OF ELECTRICAL SHOCK, MOVE THE PERSON A SHORT DISTANCE AWAY AND IMMEDIATELY START ARTIFICIAL RESUSCITATION

WARNING

HIGH VOLTAGE

is used in the operation of this equipment.

DEATH ON CONTACT

may result if personnel fail to observe safety precautions.

Never work on electronic equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment. When the technician is aided by an operator he must warn the operator about dangerous areas.

The power supply must be shut off before beginning work on the equipment. Always ground every part before touching it. When possible, keep one hand away from equipment to reduce the hazard of electrical shock.

Be sure equipment is always properly grounded.

When performing work on a vehicle always engage parking brake.

TECHNICAL MANUAL No. 11-7440-284-14

HEADQUARTERS DEPARTMENT OF THE ARMY

Washington, DC, 1 June 1983

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL

for

ELECTRONICS EQUIPMENT INSTALLATION KIT MK-1819/GSG-10(V) (NSN 1290-01-070-8907)

and

POWER ACCESSORY KIT MK-1821/GSG-10(V) (NSN 1290-01-071-4343)

in

CARGO TRUCK 1 1/4 TON M561

REPORTING 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 or DA Form 2028 (Recommended Changes to Equipment 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: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703. A reply will be furnished to you.

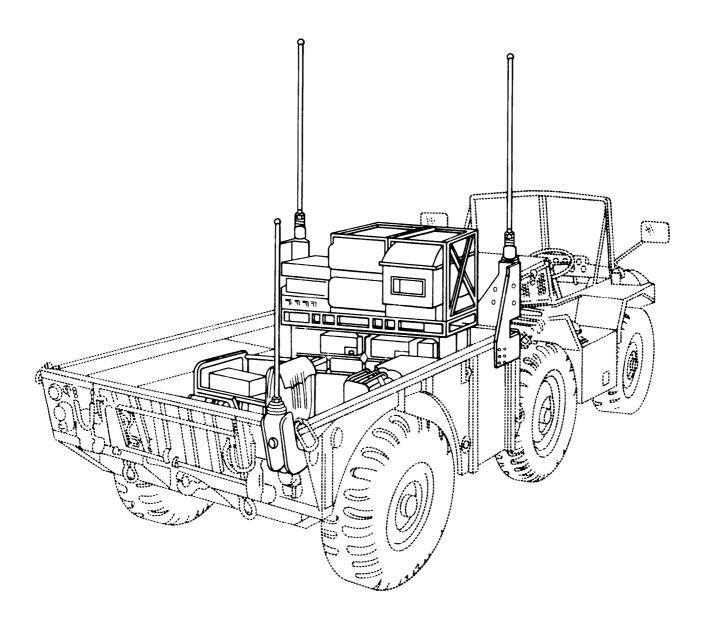
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HOW TO USE THIS MANUAL

In this manual paragraphs are numbered by chapter and order in each chapter. To find the paragraph you need, first locate your subject in the table of contents. Turn to the page shown and read the paragraph headings until you see what you're looking for. If you find a word or term you don't understand, refer to the glossary in the back of the book.



EL8KGO01

Truck, Cargo 1 1/4 Ton M561, MK-1819/GSG-10(V), MK-1821/GSG- 10(V) Installed.

CHAPTER 1

INTRODUCTION

Subject	Section	Pag
General Information	.1	1-1
Equipment Description	.II	1-4
Principles of Operation	. 111	1-6

OVERVIEW

This chapter contains general information, equipment description, and principles of operation for Electronics Equipment Installation Kit MK-1819/GSG-10(V) and Power Accessory Kit MK-1821/GSG-I0(V) in truck, cargo 1 1/4 ton M561.

Section 1 GENERAL INFORMATION

Subject	Para	Page
Scope	1-1	1-1
Maintenance Forms, Records, and Reports	1-2	1-1
Consolidated Index of Army Publications and Blank Forms	1-3	1-2
Destruction of Army Electronic Materiel	1-4	1-2
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Reporting Equipment Improvement Recommendations	1-6	1-2
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1-1. SCOPE

Type of Manual: Operator's, Organizational, Direct Support, and General Support Maintenance.

Equipment Name and Model Number Electronics Equipment installation Kit MK-1819/GSG-10(V) and Power Accessory Kit MK-1821/GSG-10(V) in Cargo Truck 1 I/4 Ton M561.

Purpose Of Equipment: Provides mounting racks, hardware and cables for the installation of Variable Format Message Entry Device AN/GSC-21 in Cargo Truck 1 1/4 Ton M561.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS.

REPORTS OF MAINTENANCE AND UNSATISFACTORY EQUIPMENT

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS)

REPORT OF PACKAGING AND HANDLING DEFICIENCIES

Fill out and forward SF 364, Report Of Discrepancy (ROD) as presribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73/AFR 400-54/MCO 4430.3E.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS. (CONT)

DISCREPANCY IN SHIPMENT REPORT

Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55A38/NAVSUPINST 4610.33 B/AFR 75-18/MCO 4610.19C/DLAR 4500.15.

1-3. CONSOLIDATED INDEX OF ARMY PUBLICATIONS AND BLANK FORMS

Refer to the latest issue of DA Pam 310-1 to determine whether there are new editions, changes or additional publications pertaining to the equipment.

1-4. DESTRUCTION OF ARMY ELECTRONIC MATERIEL.

Destruction of Army electronic materiel to prevent enemy use shall be in accordance with TM 750-214-2.

1-5. ADMINISTRATIVE STORAGE.

Administrative storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance with the PMCS charts before storing. When removing the equipment from administrative storage, the PMCS should be performed to assure operational readiness. Disassembly and repacking of equipment for shipment or limited storage are covered in section VIII of chapter 4.

1-6. REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS (EIR).

If your installation and accessory kits need improvement, let us know. Send us a EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703. A reply will be sent to you.

1.7. NOMENCLATURE CROSS-REFERENCE.

This list contains common names used throughout this manual in place of official nomenclature.

Common Name	Official Nomenclature
bracket	bracket assembly
electronic line printer rack	Electrical Equipment Rack MT-4392/GSG-10(V)
electronic equipment	message entry group, electronic line printer, key generator, power distribution box
electronic equipment racks	key generator rack, message entry group rack, electronic line printer rack
electronic equipment table	Electronics Equipment Table MT-4394/GSG-10(V)

1-7. NOMENCLATURE CROSS-REFERENCE. (CONT)

Common Name	Official Nomenclature
ground rod	ground rod, driver, sectional (9 ft)
ground strap	electrical lead
installation kit	Electronics Equipment Installation Kit MK-1819/GSG-10(V)
key generator rack	Electrical Equipment Rack MT-4393/GSG-10(V)
message entry group rack	Electrical Equipment Rack MT-4391/GSG-10(V)
mounting strip L.H.	mounting strip assembly (L. H.)
mounting strip R.H.	mounting strip assembly (R. H.)
power accessory kit	Power Accessory Kit MK-1821/GSG-10(V)
power distribution box	Power Distribution Box J-3030/GSG-10(V)
radio mount	Radio Mount MT-6188
tacfire components	electronic line printer, message entry group, key generator, power distribution box, radio receiver transmitters
tacfire racks	electronic line printer rack, message entry group rack, and key generator rack.

1-8. LIST OF ABBREVIATIONS

The list contains abbreviations used in this manual.

Abbreviations	Word or Term
elect.	electrical
ET	external tooth
ft	foot
hex	hexagon
hd	head
IET	internal/external tooth
in.	inch
IΤ	internal tooth
L.H.	left-hand
lg	long
MT	mount
R.H.	right-hand
slf-lkg	self-locking
Sp	special purpose

Section II EQUIPMENT DESCRIPTION

Subject	Para	Page
Purpose of Installation Kit	1-9	1-5
Equipment Capabilities and Features	1-10	1-5
Location and Description of Major Components	1-11	1-6
Safety, Care and Handling	1-12	1-8

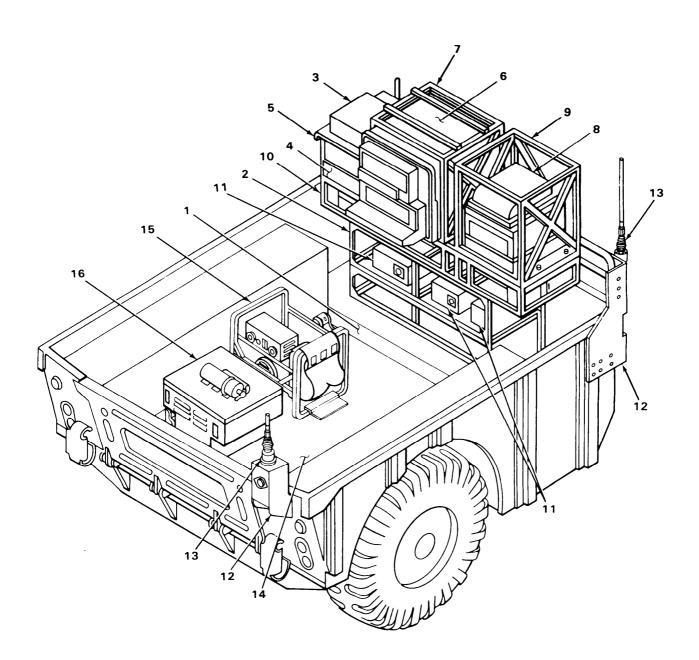
1-9. PURPOSE OF INSTALLATION KIT.

Provides mounting racks, antennas, and power connections for electronic equipment.

1.10. EQUIPMENT CAPABILITIES AND FEATURES.

Provides an all-weather land and water transportable mobile system for secure field voice and teletype communications.

1-11. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.



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1-11. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. (CONT)

FORWARD WALL OF CARRIER

- SUBMOUNT. Provides a mounting base for tacfire rack.
- 2 RADIO MOUNT. Provides a base support for electronic equipment racks and serves as a housing for radio receiver transmitters.
- 3 KEY GENERATOR. Communication security equipment.
- 4 POWER DISTRIBUTION BOX. Distributes input power to electronic equipment.
- 5 KEY GENERATOR RACK. Provides a housing and support for key generator and power distribution box.
- 6 MESSAGE ENTRY GROUP. Groups incoming messages to produce words.
- 7 MESSAGE ENTRY GROUP RACK. Provides a housing and support for message entry group.
- 8 ELECTRONIC LINE PRINTER. Teletypewriter.
- 9 ELECTRONIC LINE PRINTER RACK. Provides a housing and support for electronic line printer.
- 10 ELECTRONIC EQUIPMENT TABLE. Provides a mount and support for electronic equipment racks.
- 11 RADIO RECEIVER/TRANSMITTERS. Receives and transmits radio signals.

FORWARD AND REAR OUTER WALLS OF CARRIER

- 12 ANTENNA MOUNTING BRACKETS. Provides mounts for antenna assemblies,
- 13 ANTENNA ASSEMBLY. Used for receiving and transmitting radio signals.

REAR SECTION OF CARRIER

- 14 FLOOR BASE. Provides a mounting platform for power accessory kit.
- 15 GENERATOR. Provides power to operate electronic equipment for field use.
- 16 BATTERY BOX. Provides a housing for batteries and mount for fire extinguisher during field use.

1-12. SAFETY, CARE, AND HANDLING.

Be sure to obey all WARNINGS and CAUTIONS given in this manual. Serious injury to personnel or damage to equipment may result if WARNINGS and CAUTIONS are not followed exactly.

Section III PRINCIPLES OF OPERATION

Refer to TM 11-7440-251-10 and TM 11-7440 -253-10-1 for principles of operation for the electronic equipment housed in the installation kit.

CHAPTER 2

OPERATING INSTRUCTIONS

Subject	Section	Page
Description and Use of Operator's Controls and Indicators	I	2-1
Operator Preventive Maintenance Checks and Services	II	2-1
Operation Under Usual Conditions	III	2-1
Operation Under Unusual Conditions	IV	2-1

OVERVIEW

This chapter contains description and use of operator's controls and indicators, preventive maintenance checks and services, and operation under usual and unusual conditions for the electronic equipment provided in the installation kit.

Section I DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS

For operating instructions of the tacfire electronic equipment refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.

Section II OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES

There are no operator PMCS procedures for this equipment. Routine checks like equipment inventory, cleaning the vehicle, checking for frayed or broken cables, replacing items not in use, and checking for loose hardware, such as nuts, bolts, and screws, are not listed in the PMCS table. Do these tasks daily.

Section III OPERATION UNDER USUAL CONDITIONS

For operation under usual conditions refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.

Section IV OPERATION UNDER UNUSUAL CONDITIONS

For operation under unusual conditions refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.

CHAPTER 3

OPERATOR MAINTENANCE

Subject	Section	Page
Lubrication Instructions	I	3-1
Troubleshooting Procedures	П	3-1
Maintenance Procedures	III	3-1

OVERVIEW

This chapter contains lubrication, troubleshooting, and maintenance instructions for the electronic equipment in the installation kit.

Section I LUBRICATION INSTRUCTIONS

There are no lubrication instructions for the installation kit.

Section II TROUBLESHOOTING PROCEDURES

For troubleshooting procedures refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.

Section III MAINTENANCE PROCEDURES

For maintenance procedures refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.

CHAPTER 4 ORGANIZATIONAL MAINTENANCE

Subject	Section	Page
Repair Parts, Special Tools, TMDE and Support Equipment		4-1 4-1
Kit and Power Accessory Kit . Preventive Maintenance Checks and Services	IV	4-4 4-104 4-104 4-104
Accessory Kit		4-105 4-189

OVERVIEW

This chapter contains instructions for the assembly, installation, and removal of the installation kit.

Section I REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

Subject	Para	Page
Common Tools and Equipment	. 4-1	4-1
Special Tools,TMDE, and Support Equipment	. 4-2	4-1

4.1. COMMON TOOLS AND EQUIPMENT.

The common tools and equipment needed for the installation of the electronic equipment installation kit will be listed in the Maintenance Allocation Chart (MAC) found in appendix B, and at the beginning of each installation procedure.

4.2. SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

For special tools refer to appendix B.

Section II SERVICE UPON RECEIPT

Subject	Para	Page
Unpacking	4-3	4-2
Checking Unpacked Materiel		4-4

4-3. UNPACKING.

This task covers:

Unpacking of installation kit and electronic equipment

INITIAL SETUP

Tools Personnel Required

Pliers Two mechanics

Claw hammer

Shears Equipment Condition

Pocket knife Equipment crated.

Materials/Parts

None

ACTION LOCATION ITEM REMARKS

WARNING

Stand to the side of each packing band when cutting.

NOTE

Move crated equipment to site of installation. Save cartons, fillers, and blocking for future use as packing for storage.

1. Wooden crate Packing band (1) Using shears, cut.

2. Top cover Nails (2) Using claw hammer, remove.

3. Wooden crate Top cover (3) Remove.

4. Side cover Nails (4) Using claw hammer, remove.

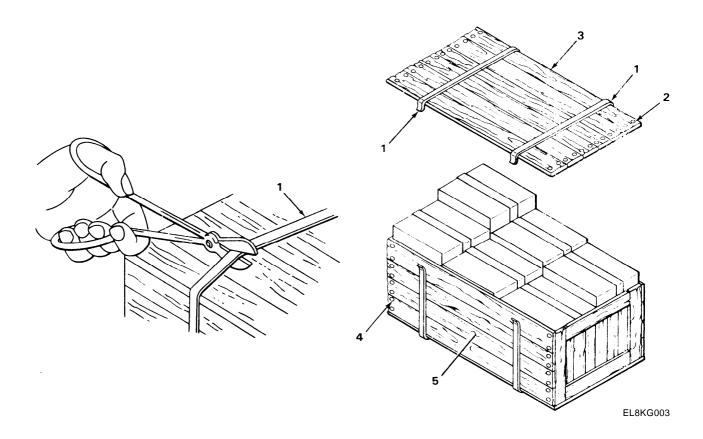
6. Wooden crate Side cover (5) Remove.

If packed for overseas shipment, remove moisture proof cover.

NOTE

Remove cartons from wooden crate and carefully remove components. Some parts are secured to sides of wooden crate. Using pliers, remove.

4-3. UNPACKING. (CONT)



4-4. CHECKING UNPACKED MATERIEL.

When the installation kit is received, the unpacker must check equipment for damage resulting from shipment, proper amount of items or parts shipped, and if the right units were sent in the kit.

If damage to a unit or a part of the kit other than minor scratches or dents are found, see paragraph 1-2, Maintenance Forms, Records and Reports. Check the parts list with the parts received and if there is a difference in the amount received, report on forms shown in TM 38-750. If the part numbers are not the same, check the current Modification Work Order (MWO) DA PAM 310-1 for a change in parts listing.

Section III ASSEMBLY AND INSTALLATION OF ELECTRONIC EQUIPMENT INSTALLATION KIT AND POWER ACCESSORY KIT

Subject	Para	Page
Removing Canvas Tie-down Hooks	4-5	4-6
Preparation For Drilling	4-6	4-8
Modifying Front Antenna Mounting Brackets	4-7	4-8
Front Antenna Bracket Mounting Holes	4-8	4-10
Rear Antenna Bracket Mounting Holes	4-9	4-12
Center Punching	4-10	4-14
Pilot Drilling	4-11	4-16
Final Drilling	4-12	4-18
Installing Canvas Tie-down Hooks on Front Antenna Mounting Brackets	4-13	4-20
Installing Front Antenna Mounting Brackets	4-14	4-22
Installing Front Antenna Supports	4-15	4-24
Installing Antenna Mounting Bases	4-16	4-26
Installing Antenna Ground Straps	4-17	4-28
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25-inch Ground Strap to Forward Wall Mounting Hole	4-19	4-33
Installing Rear Antenna Mounting Bracket	4-20	4-34
Removing Cargo Tie-down Assemblies	4-21	4-21
Installing Adapter Assemblies	4-22	4-40
installing Submount Assembly	4-23	4-42
Installing Radio Mount	4-24	4-44
Preparation For Drilling Front Reinforcement Support Mounting Holes	4-25	4-46
Center Punching and Drilling Front Reinforcement Support Mounting Holes	4-26	4-48
Installing Electronic EquipmentTable	4-27	4-54
Installing Front Reinforcement Support	4-28	4-56
Installing Key Generator Rack	4-29	4-60
installing Message Entry Group Rack	4-30	4-62
Installing Electronic Line Printer Rack	4-31	4-64
Installing Electronic Line Printer Sliding Tray	4-32	4-66
installing 4-Inch Ground Straps	4-33	4-68
Installing Radio Power Cables To Radios	4-34	4-70
installing Radio Mounting Bases	4-35	4-72
installing Tacfire Components	4-36	4-74
Installing Radio and Power Distribution Box Power Cables to Vehicle Power	4-37	4-76
Installing 25-inch Ground Strap to Front Wall	4-38	4-78
installing 25-Inch Ground Strap to Power Distribution Box	4-39	4-80
Installing Sledge Hammer and Mounting Brackets	4-40	4-82

Subject	Para	Page
Installing Floor Base	4-41	4-84
Installing Fuel Filler Nozzle and Bracket	4-42	4-86
installing Fuel Can and Bracket	4-43	4-88
Installing Generator	4-44	4-90
installing Battery Box		4-92
installing Batteries and Holddown		4-94
installing Fire Extinguisher MountingBracket	4 4-	4-96
Installing Fire Extinguisher		4-98
Installing Canvas Cable Bag	4-49	4-99
Installing Antenna Cabling	4-50	4-100
Installing External Ground Rod Kit.	4-57	4-102

4-5. REMOVING CANVAS TIE-DOWN HOOKS.

This task covers:		
Removal		

INITIAL SETUP

Tools Personnel Required

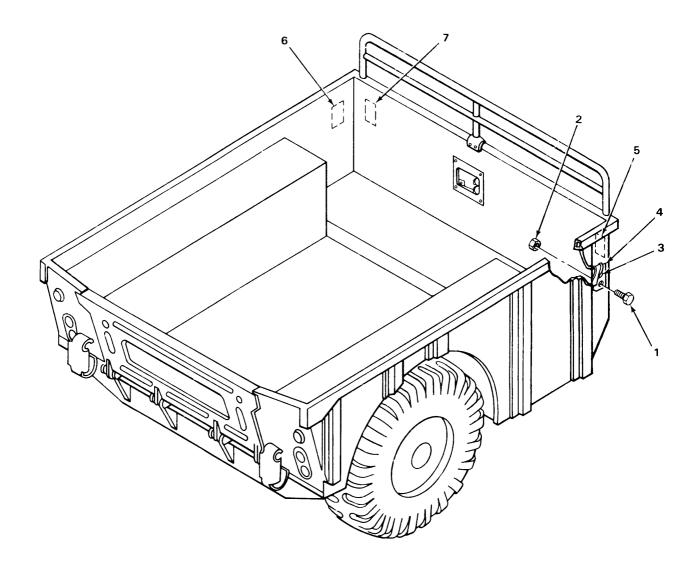
1/2-inch box wrench (2 required) One mechanic

Materials/Parts Equipment Condition

None Truck set at installation site.

LOCATION	ITEM	ACTION REMARKS
Curbside front outer side wall	Screw (1) and locknut (2)	Using two 1/2-inch box wrenches, remove. There are two screws. Step 1 is typical for both screws.
2.	Screw (3)	Do step 2 again.
3.	Tie-down hook (4)	Remove and save. There are four tie-down hooks. Steps 1 thru 3 are typical for all four tie- down hooks.
Curbside forward outer wall	Tie-down hooks (5), (6) and (7)	Do steps 1, 2 and 3 again.

3-5. REMOVING CANVAS TIE-DOWN HOOKS. (CONT)



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4-6. PREPARATION FOR DRILLING.

Preparation for drilling instructions for:

Modifying front antenna mounting brackets
Front curbside and roadside antenna bracket mounting holes
Rear antenna bracket mounting holes
25-inch ground strap mounting hole

4-7. MODIFYING FRONT ANTENNA MOUNTING BRACKETS.

This task covers:

Modification

INITIAL SETUP

Tools Personnel Required

Hammer One mechanic

Chisel

Safety goggles Equipment Condition

Materials/Parts Antenna brackets on bench.

Front antenna mounting brackets (2 required)

		ACTION	
LOCATION	ITEM	REMARKS	

WARNING

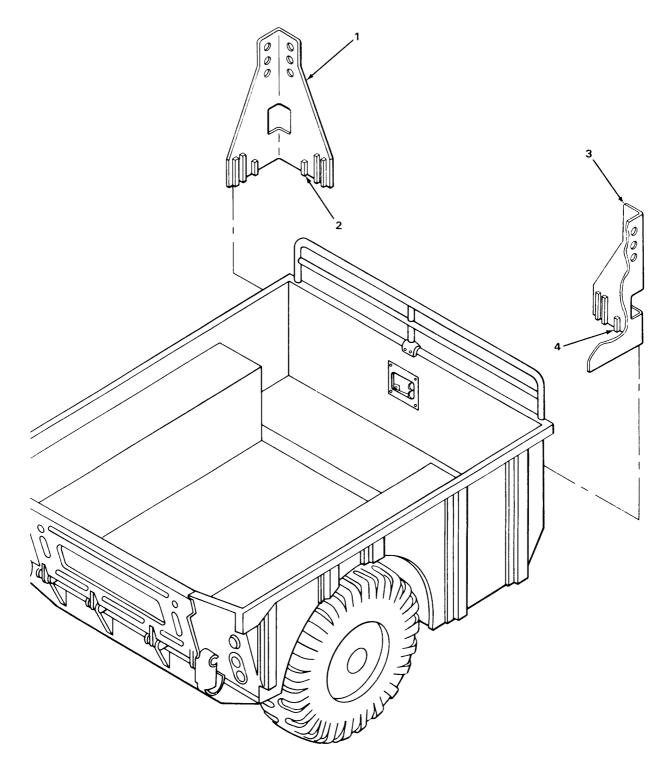
Safety goggles must be worn during this task.

NOTE

The particular spacer removed determines roadside or curbside positions for antenna brackets.

1. Outside vehicle	Antenna bracket (1) and short spacer (2)	Using hammer and chisel, remove. This becomes the roadside antenna bracket.
2.	Antenna bracket (3) and short spacer (4)	Using hammer and chisel, remove. This becomes the curbside antenna bracket.

4.7. MODIFYING FRONT ANTENNA MOUNTING BRACKETS. (CONT)



EL8KGO05

4-8. FRONT ANTENNA BRACKET MOUNTING HOLES.

This task covers:

Preparation for drilling

INITIAL SETUP

Tools Personnel Required

C-clamps (2 required) Two mechanics White marking pencil

Equipment Condition

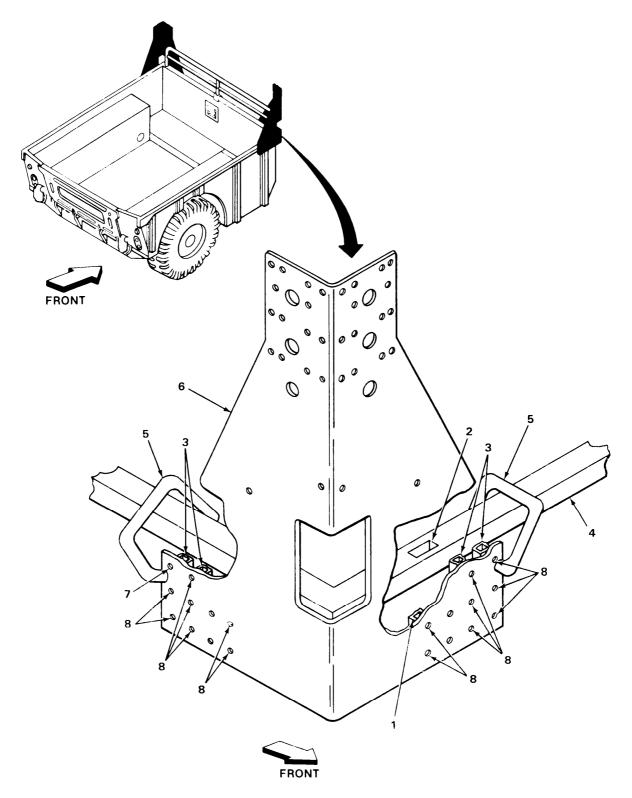
Materials/Parts

Tie-down hooks removed and

Front antenna bracket antenna brackets modified (para 4-7).

LOCATION	ITEM	ACTION REMARKS
Outside carrier, front corners	Inner spacer (1) and bow socket (2)	Aline.
2.	Outer spacers (3) and carrier wall lip (4)	Push bracket up so spacers are under wall lip.
3.	C-clamp (5) and bracket (6)	Using two C-clamps, clamp both sides of bracket to wall.
4.	Screw hole (7)	Using marking pencil, mark. There are 16 screw holes. Step 4 is typical for all 16 holes.
5.	Screw hole (8)	Do step 4 again.
6.	C-clamps (5) and bracket (6)	Remove.

4-8. FRONT ANTENNA BRACKET MOUNTING HOLES. (CONT)



EL8KGO06

4-9. REAR ANTENNA BRACKET MOUNTING HOLES.

This task covers:

Preparation for drilling

INITIAL SETUP

Tools Personnel Required

Felt-tip pen Tape measure

Cross-tip screwdriver Equipment Condition

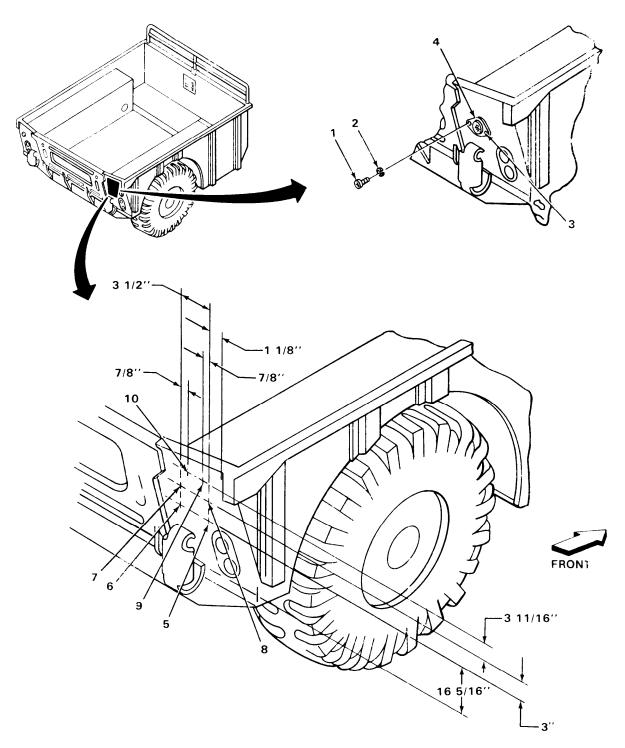
Materials/Parts Truck set at installation site.

One mechanic

None

	LOCATION	ITEM	ACTION REMARKS
1.	Outside corner rear curbside wall	Screw (1) and lockwasher (2)	Using cross-tip screwdriver, remove. There are two screws. Step 1 is typical for both screws.
2.		Screw (3)	Do step 1 again.
3.		Reflector (4)	Remove. Save.
4.		Mark (5)	Measure 16 5/16 inches from lower edge of carrier body. Measure 1 1/8 inches in from outside edge of body. Using felt-tip pen, mark.
5.		Mark (6)	Measure 3 1/2 inches over from mark (5). Using felt-tip pen, mark.
6.		Mark (7)	Measure 3 inches up from mark (6). Using felt-tip pen, mark.
7.		Mark (8)	Measure 3 1/2 inches over from mark (7). Using felt-tip pen, mark.
8.		Mark (9)	Measure 3 11/16 inches up from mark (8). Using felt-tip pen, mark.
9.		Mark (10)	Measure 3 1/2 inches over from mark (9). Using feit-tip pen, mark.

4-9. REAR ANTENNA BRACKET MOUNTING HOLES. (CONT)



EL8KG007

4-10. CENTER PUNCHING.

This task covers:

Center punching

INITIAL SETUP

Tools Personnel Required

One mechanic Hammer

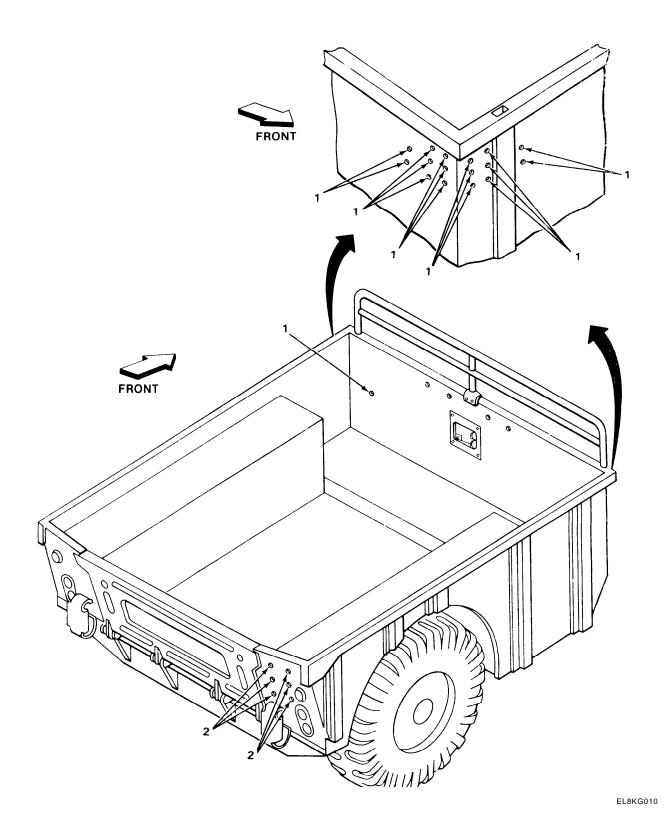
Center punch **Equipment Condition**

Materials/Parts

All areas to be center punched, None marked.

	LOCATION	ITEM	ACTION REMARKS
7.	Front antenna mounting, roadside	Marks (1)	Using hammer and center punch, punch. There are 16 marks to be punched.
2.	Front antenna mounting, curbside	Marks (1)	Using hammer and center punch, punch. There are 16 marks to be punched.
3.	Ground strap mounting, front roadside	Mark (1)	Using hammer and center punch, punch.
4.	Rear antenna mounting	Marks (2)	Using hammer and center punch, punch. There are six marks to be punched.

4-10. CENTER PUNCHING. (CONT)



4.11. PILOT DRILLING.

This ta	ask covers:		
Pilo	t drilling		
INITIAI	_ SETUP		
Tools			Personnel Required
Electric drill			One mechanic
l/8-inch drill bit Materials/Parts None			Equipment Condition All areas to be drilled, center punched.
	LOCATION	ITEM	ACTION REMARKS
1.	Front antenna mounting, roadside	Marks (1)	Using electric drill and 1/8-inch drill bit. drill. There are 16 holes to be drilled.
2.	Front antenna mounting, curbside	Marks (1)	Using electric drill and 1/8-inch drill bit drill There are 16 holes to be drilled.
3.	Ground strap mounting, front roadside	Mark (2)	Using electric drill and 1/8-inch drill bit drill.

drill.

Using electric drill and 1/8-inch drill bit,

There are six holes to be drilled.

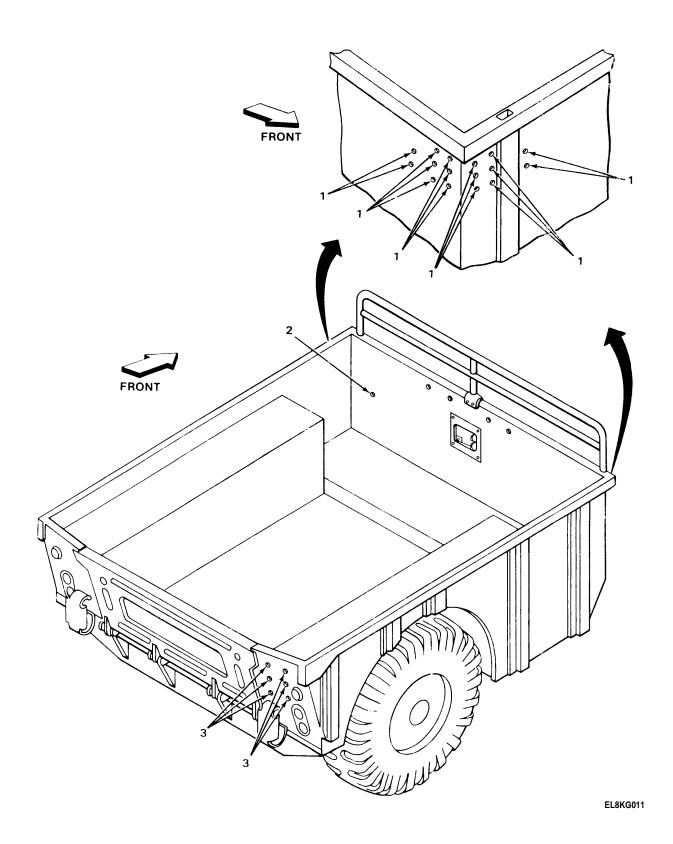
4.

Rear antenna

mounting, curbside

Marks (3)

4-11. PILOT DRILLING. (CONT)



4-12. FINAL DRILLING.

This task covers:

Final drilling

INITIAL SETUP

Tools Personnel Required

Electric drill 9/32-inch drill bit 13/32-inch drill bit I-inch drill bit

Equipment Condition

One mechanic

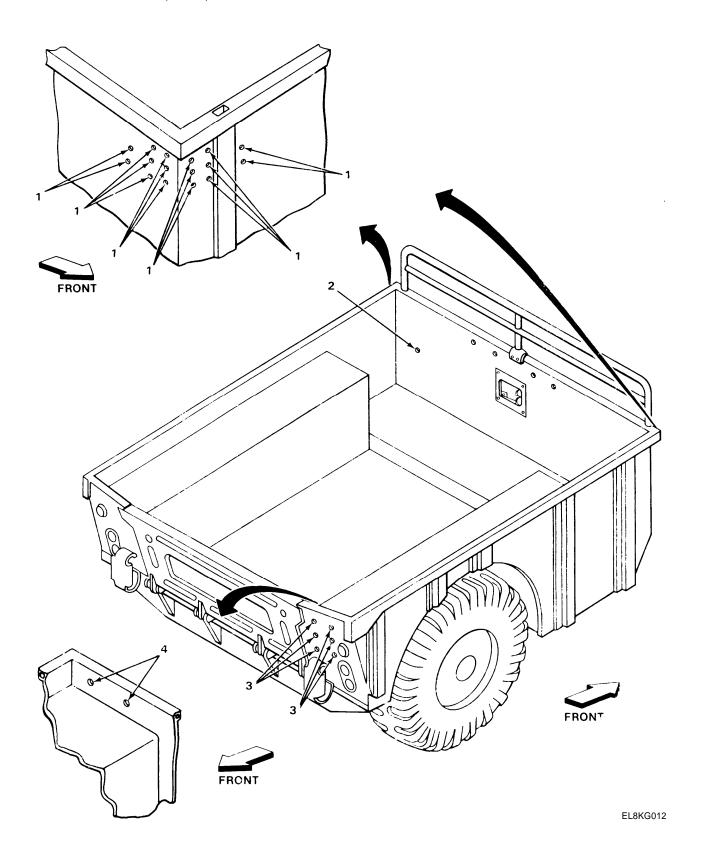
All pilot holes drilled.

Materials/Parts

None

LOCATION	ITEM	ACTION REMARKS
Front antenna mounting, roadside	Holes (1)	Using electric drill and 9/32-inch drill bit, drill. There are 16 holes to be drilled.
Front antenna mounting, curbside	Holes (1)	Using electric drill and 9/32-inch drill bit, drill. There are 16 holes to be drilled.
Ground strap mounting, front roadside	Hole (2)	Using electric drill and 13/32-inch drill bit, drill.
Rear antenna mounting, curb- side, outside of carrier	Holes (3)	Using electric drill and 13/32-inch drill bit, drill. There are six holes to be drilled.
		NOTE
	Drill top two	holes through outer and inner walls of carrier.
Rear antenna mounting, curb- side inside of carrier	Holes (4)	Using electric drill and I-inch drill bit, drill. Drill inner wall only.

4-12. FINAL DRILLING. (CONT)



4-13. INSTALLING CANVAS TIE-DOWN HOOKS ON FRONT ANTENNA MOUNTING BRACKETS.

This task covers:

Installation

INITIAL SETUP

Tools

1/2-inch box wrench (2 required)

Materials/Parts

Antenna brackets (2 required)
Tie-down hooks (4 required)
5/16-24 x 1 inch long hex head
screws (8 required)
5/16-24 lock-hex nut
(8 required)

Personnel Required

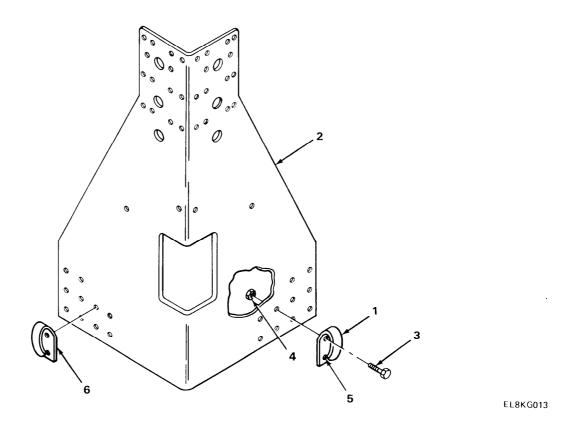
One mechanic

Equipment Condition

Tie-down hooks removed from carrier.

	LOCATION	ITEM	ACTION REMARKS
1.	Curbside antenn bracket	a Tie-down hook (1) and bracket (2)	Place and aline holes.
2.		Screw (3) and locknut (4)	Using two 1/2-inch box wrenches, install. There are two screws. Step 1 is typical for both screws.
3.		Hole (5)	Do step 2 again.
			There are two tie-down hooks. Steps 1, 2 and 3 are typical for both hooks.
4.		Tie-down hook (1)	Do steps 1, 2 and 3 again. There are two front antenna brackets. Steps 1 through 4 are typical for both brackets.
S.	Roadside antenr bracket	na Tie-down hook (1) and tie-down hook (6)	Do steps 1 through 4 for second bracket.

4-13. INSTALLING CANVAS TIE-DOWN HOOKS ON FRONT ANTENNA MOUNTING BRACKETS. (CONT)



4-14. INSTALLING FRONT ANTENNA MOUNTING BRACKETS.

This task covers:

Installation

INITIAL SETUP

Tools Materials/Parts (Cont)

7/16-inch box wrench Antenna mounting brackets

(2 required) (2 required)

Materials/Parts Personnel Required

1/4-28 x 3 inch long hex head Two mechanics

screws (32 required)
1/4-inch flat washer Equipment Condition

(64 required)
1/4-28 self-locking nut

Mounting holes drilled and canvas

(32 required) tie-downs installed.

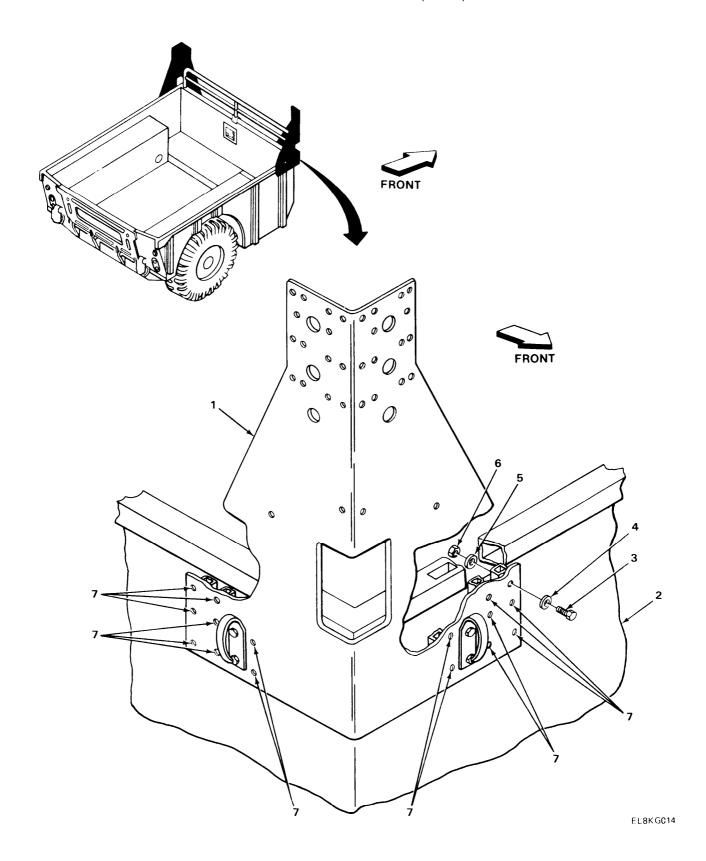
ACTION LOCATION ITEM REMARKS

NOTE

A helper will be needed outside carrier.

Outside carrier, forward curbside wall	Bracket (1) and carrier wall (2)	Place and aline holes.
2.	Screw (3), flat washer (4), flat washer (5) and nut (6)	Install, handtighten. There are 16 screws. Step 2 is typical for all 16 screws.
3.	Holes (7)	Do step 2 again.
4.	Screws (3)	Using two 7/16 inch box wrenches, tighten. There are two front antenna brackets. Steps 1 through 4 are typical for both brackets.
Outside carrier, forward roadside wall	Bracket (1)	Do steps 1 through 4 again.

4-14. INSTALLING FRONT ANTENNA MOUNTING BRACKETS. (CONT)



4-15. INSTALLING FRONT ANTENNA SUPPORTS.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

7/16-inch box end wrench One mechanic

(2 required)

Equipment Condition

Front antenna brackets installed.

Materials/Parts

1/4-20 x 3/4 inch long hex head screw (12 required) 1/4-20 plain hex nut

(12 required)

14-inch IET lockwasher

(12 required)

Support assembly (2 required)

ACTION REMARKS

LOCATION

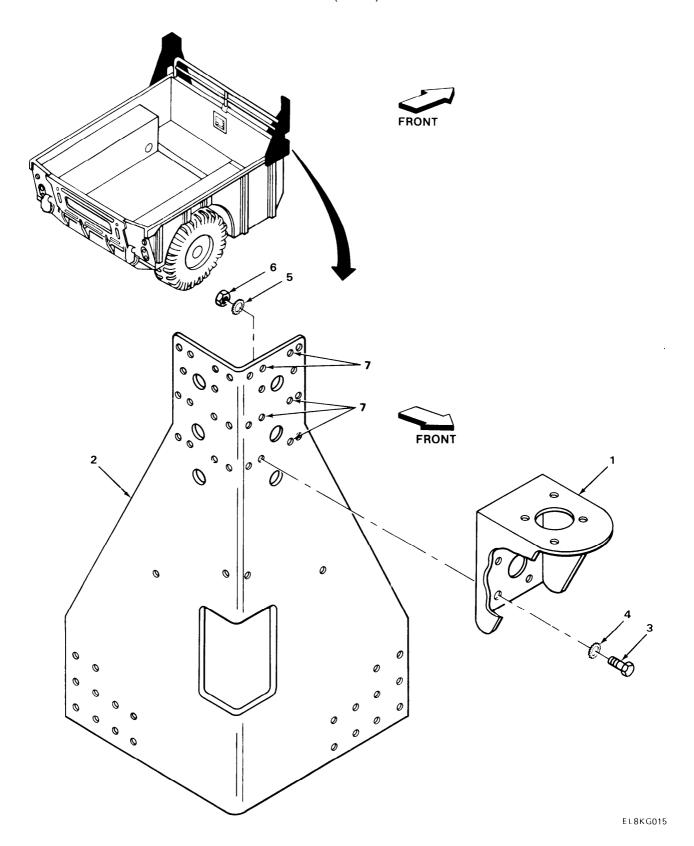
ITEM

NOTE

Support assemblies face front of vehicle.

Curbside antenna bracket	Support (1) and bracket (2)	Place and aline holes.
2.	Screw (3), IET lockwasher (4), lockwasher (5) and nut (6)	Install, handtighten. There are six screws. Step 2 is typical for all six screws.
3.	Holes (7)	Do step 2 again.
4.	Screws (3)	Using two 7/16-inch box wrenches, tighten. Do steps 1 through 4 for roadside antenna bracket.

4-15. INSTALLING FRONT ANTENNA SUPPORTS. (CONT)



4-16. INSTALLING ANTENNA MOUNTING BASES.

Antenna Mounting Base AS-1729/ VRC

This task covers:

Installation

INITIAL SETUP

Tools Materials/Parts (Cont)

9/16-inch box wrench (2 required) 3/8-inch lockwasher (12 required)

3/8-16 nut (12 required)

Materials/Parts

Personnel Required

(2 required) One mechanic

Antenna Mounting Base AB-558 GR 3/8-16 x 1 3/4 inch long screw Equipment Condit

3/8-16 x 1 3/4 inch long screw Equipment Condition (12 required)

3/8-inch flat washer (12 required)

Antenna support assemblies installed.

LOCATION ITEM REMARKS

CAUTION

Do not over tighten hardware. Over tightening can cause damage to antenna mounting bases.

NOTE

There are two VRC antenna mounting bases and one GR antenna mounting base. The steps given are typical for both types.

 Front roadside position of outer panel of carrier wall VRC antenna mounting base (1) and antenna support assembly (2)

nut (6)

Place and aline holes.

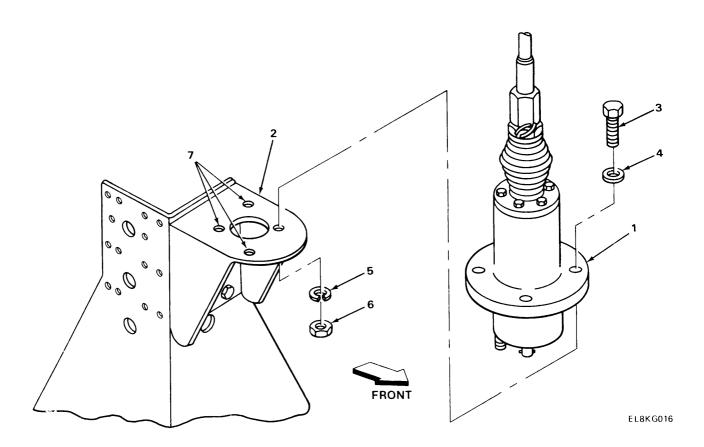
2. Screw (3), flat washer (4), lockwasher (5) and

Install, handtighten.

There are four screws. Step 1 is typical for all four screws.

4-16. INSTALLING ANTENNA MOUNTING BASES. (CONT)

LOCATION	ITEM	ACTION REMARKS
 Front roadside position of outer panel of carrier wall 	Screw holes (7)	Do step 2 again.
4.	Screws (3) and nuts (6)	Using two 9/16-inch box wrenches, tighter
5. Front curbside position of outer panel of carrier wall	VRC antenna mounting base (1)	Do steps 1 through 4 again.
 Curbside position of carrier rear wall 	GR antenna mounting base (1)	Do steps 1 through 4 again.



4-17. INSTALLING ANTENNA GROUND STRAPS.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

1/2-inch box wrench (2 required)

Flat-tip screwdriver

Equipment Condition

One mechanic

Materials/Parts

Antenna mounting bases in place.

5/16-24 x 3/4 inch long screw (3 required) 5/16-24, plain hex nut (3 required) 5/16-inch IET lockwasher (6 required) 6-inch ground strap (3 required)

		ACTION
LOCATION	ITEM	REMARKS

NOTE

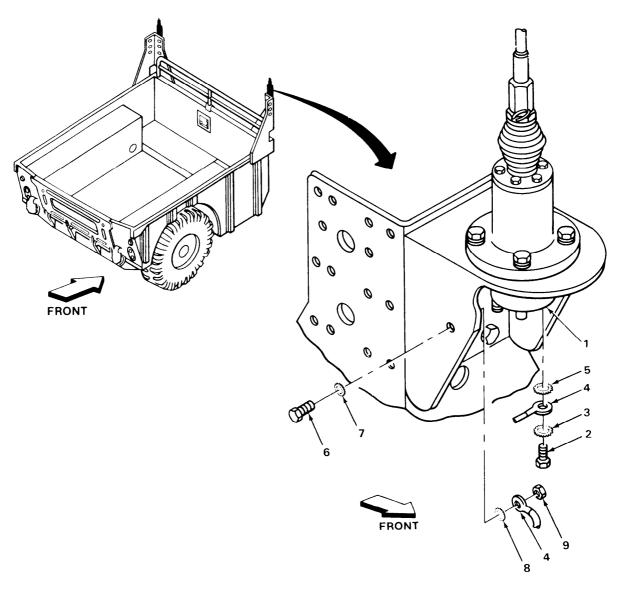
There are two different kinds of antennas used. The steps given are typical for both.

Front roadside antenna	Antenna mounting base (1), screw (2), IET lock- washer (3), ground strap (4) and IET lockwasher (5)	Using flat-tip screwdriver, install.
2.	Screw (6), ET lock- washer (7), ground strap (4), ET lock- washer (8) and nut (9)	Using 1/2-inch box wrench, install. There are three vehicle antennas. Steps 1 and 2 are typical for all three vehicle antennas.
3. Front curbside	Ground strap (4)	Do step 1 and 2 again.

antenna

4.17. INSTALLING ANTENNA GROUND STRAPS. (CONT)

LOCATION	ITEM	ACTION REMARKS	
4. Rear curbside antenna	Ground strap (4)	Do steps 1 and 2 again.	



4-18. INSTALLING ANTENNA MASTS.

This task covers:

Installation

INITIAL SETUP

Tools

1/8-inch hex wrench Adjustable crescent wrench Cutting pliers

Materials/Parts

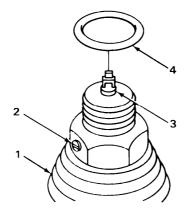
Antenna mast (3 required) Safety wire Electrical tape Personnel Required

One mechanic

Equipment Condition

Antenna mounting base installed.

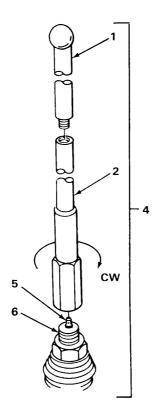
LOCATION	ITEM	ACTION REMARKS
1. All antennas	Antenna mounting base (1), set- screw (2) and electrical contact (3)	Pull electrical contact up to maximum travel, out of antenna mounting base. Using I/8-inch hex wrench, tighten setscrew until resistance is felt.
2.	Antenna mounting base (1) and O-ring (4)	Install.

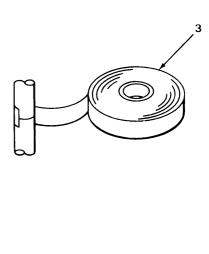


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4-18. INSTALLING ANTENNA MASTS. (CONT)

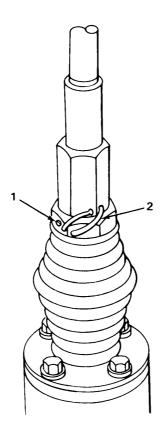
LOCATION	ITEM	ACTION REMARKS
3. All antennas	Upper antenna mast (1), lower antenna mast (2) and electrical tape (3)	Screw upper antenna mast clockwise into antenna mast. Wrap two turns of electrical tape where upper and lower antenna masts meet.
4.	Antenna mast (4), electrical contact (5) and mounting base (6)	Using adjustable wrench, install. Antenna mast will seat against antenna mounting base. Slight resistance will be felt as electrical contact seats against antenna mast.





4-18. INSTALLING ANTENNA MASTS. (CONT)

LOCATION	ITEM	ACTION REMARKS
5. All antennas	Setscrew (1)	Using 1/8-inch hex wrench, tighten.
6.	Safety wire (2)	Install. Using cutting pliers, clip off wire ends.



4-19. 25-INCH GROUND STRAP TO FORWARD WALL MOUNTING HOLE.

This task covers:

Preparation for drilling

INITIAL SETUP

Tools Personnel Required

Felt-tip pen Hammer Center punch Tape measure

Equipment Condition

One mechanic

Truck set at installation site and roadside drop seat lowered.

None

Materials/Parts

		ACTION	
LOCATION	ITEM	REMARKS	

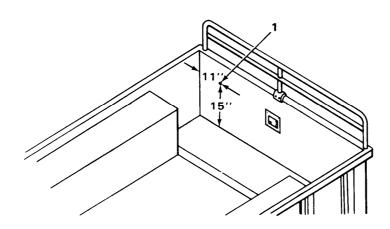
NOTE

Measure a point 15 inches up from floor and 11 inches from roadside wall.

1. Roadside forward wall

Mark (1)

Using felt-tip pen, mark.



4-20. INSTALLING REAR ANTENNA MOUNTING BRACKET.

This task covers:

Installation

INITIAL SETUP

Tools

3/8-inch drive, 6 inch long extension bar 3/8-inch drive socket wrench 9/16-inch socket 9/16-inch box wrench (2 required) Cross-tip screwdriver

Materials/Parts

3/8-24 x 1 inch long hex head screw (6 required) 3/8-inch flat washer (12 required) 3/8-24 self-locking nut (6 required) Materials/Parts (Cont)

Rear antenna bracket
Rear reflector
1/4-20 x 5/8 inch long
panhead screw (2 required)
14-inch split lockwasher
(2 required)

Personnel Required

Two mechanics

Equipment Condition

Antenna bracket mounting holes drilled and rear reflector removed.

ACTION LOCATION ITEM REMARKS

NOTE

A helper will be needed outside carrier.

Inside corner above rear curb- side seat	Screw (1) and plate (2)	Using cross-tip screwdriver, remove. There are four screws. Step 1 is typical for all four screws.
2.	Screws (3)	Do step 1 again.
3.	Plate (2)	Remove.
Outside carrier, rear curbside wall	Bracket (4) and carrier wall (5)	Place and aline holes.

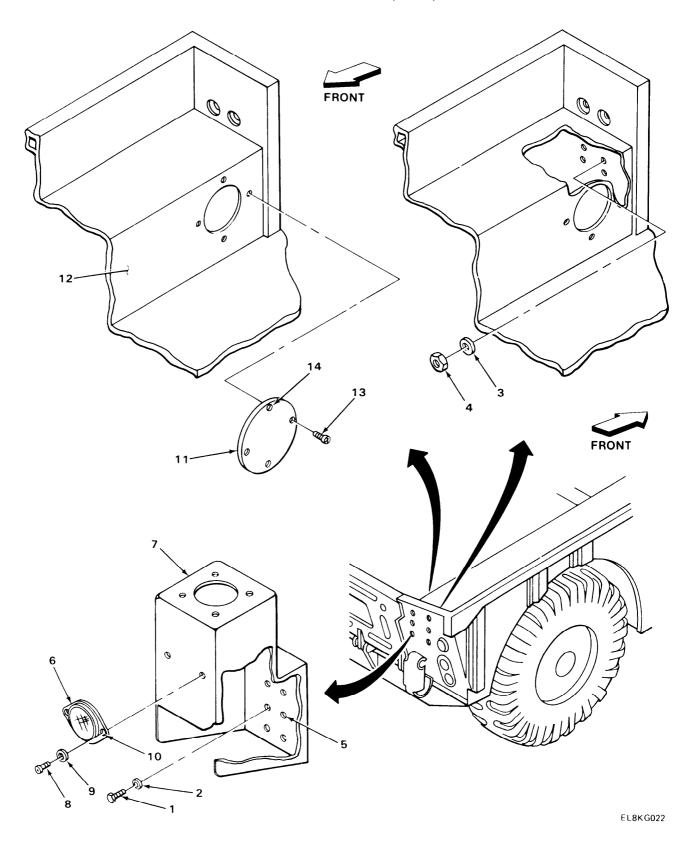
4-20. INSTALLING REAR ANTENNA MOUNTING BRACKET. (CONT)

LOCATION	ITEM	ACTION REMARKS
5. Inside carrier, rear curbside wall	Screw (6), flat washer (7), flat washer (8) and nut (9)	Install, handtighten. There are two screws. Step 5 is typical for both screws.
5.	Hole (10)	Do step 5 again.
7.	Screws (6)	Using ratchet wrench, extension, 9/16-inch socket and 9/16-inch box wrench, tighten. Use socket wrench to reach top two nuts.
	FRONT	FRONT
7	10	
	5	

4-20. INSTALLING REAR ANTENNA MOUNTING BRACKET. (CONT)

LOCATION	ITEM	ACTION REMARKS
8. Outside carrier, rear antenna bracket	Screw (1), flat washer (2), flat washer (3) and nut (4)	Install, handtighten. There are four screws. Step 8 is typical for all four screws.
9.	Holes (5)	Do step 8 again.
10.	Screws (1)	Using two 9/16-inch box wrenches, tighten.
11.	Reflector (6) and bracket (7)	Place and line holes.
12.	Screw (8) and lockwasher (9)	Using cross-tip screwdriver, install. There are two screws. Step 12 is typical for both screws.
13.	Hole (10)	Do step 12 again.
 Inside carrier, rear curbside seat 	Plate (11) and seat (12)	Place and aline holes.
15.	Screw (13)	Using cross-tip screwdriver, install. There are four screws. Step 14 is typical for all four screws.
16.	Holes (14)	Do step 15 again.

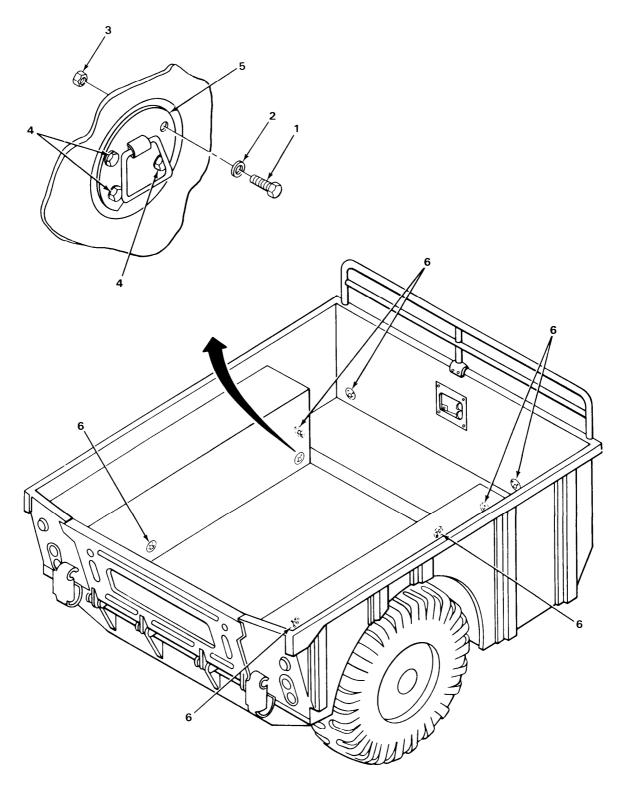
4-20. INSTALLING REAR ANTENNA MOUNTING BRACKET. (CONT)



4-21. REMOVING CARGO TIE-DOWN ASSEMBLIES.

This task covers:		
Removal		
INITIAL SETUP		
Tools		Personnel Required
1/2-inch box wrench (2 required)		Two mechanics
Stiff wire brush		Equipment Condition
Materials/Parts		Truck set at installation site.
None		
LOCATION	ITEM	ACTION REMARKS
		NOTE
	A helper will be tie-down assem	needed outside carrier. Clean back of cargo blies.
 Carrier inner walls 	Screw (1), flat washer (2) and nut (3)	Using two 1/2-inch box wrenches, remove. There are four screws. Step 1 is typical for all four screws.
2.	Screws (4)	Do step 1 again.
3.	Cargo tie-down assembly (5)	Remove, There are eight cargo tie-down assemblies. Steps 1, 2 and 3 are typical for all eight cargo tie- down assemblies.
4.	Cargo tie-down assemblies (6)	Do steps 1, 2 and 3 again. Store cargo tie-down assemblies and hardware for future use.

4-21. REMOVING CARGO TIE-DOWN ASSEMBLIES. (CONT)



4-22. INSTALLING ADAPTER ASSEMBLIES.

This task covers:

Installation

INITIAL SETUP

Tools Materials/Parts (Cont)

1/2-inch box wrench Adapter assemblies (8 required)

(2 required) Sealant compound

Materials/Parts Personnel Required

5/16-18 x 1 1/2 inch long hex head screw (16 required) 5/16-inch flat washer (32 required)

5/16-18 self-locking nut

(16 required)

1. Carrier inner

Two mechanics

Equipment Condition

Cargo tie-down assemblies

removed.

		ACTION
LOCATION	ITEM	REMARKS

Adapter (1) and

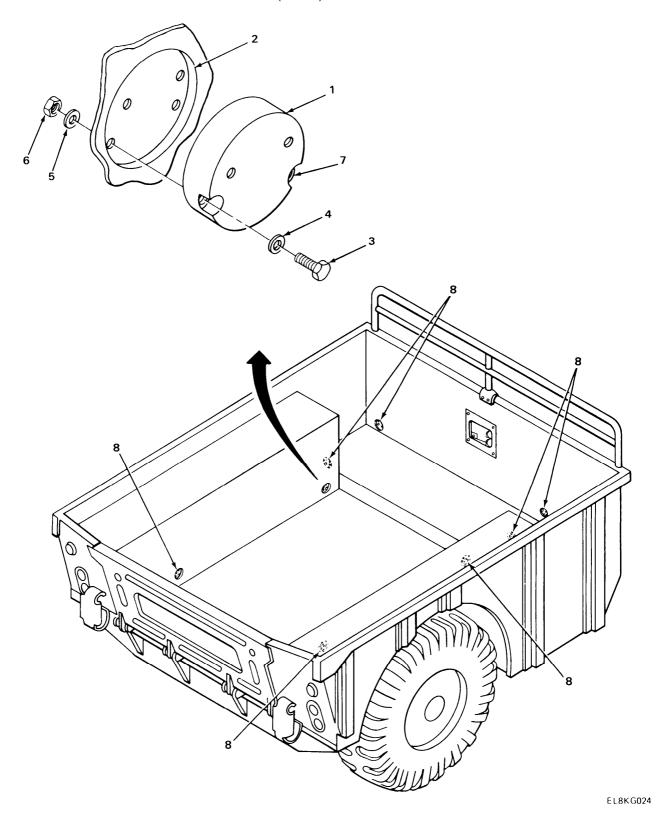
NOTE

A helper will be needed outside carrier. Grind or chisel any weld slag from tie-down sockets. Put sealant on back of adapters and mounting hardware before installing.

Place and aline holes.

walls	tie-down socket (2)	Arrows on adapter must be facing up. Put sealant on adapters.
2.	Screw (3), flat washer (4), flat washer (5) and nut (6)	Using two 1/2-inch box wrenches, install. There are two screws. Step 1 is typical for each screw.
3.	Hole (7)	Do step 2 again. There are eight adapters. Steps 1, 2 and 3 are typical for all eight adapters.
4.	Remaining seven adapters (8)	Do steps 1, 2 and 3 again, for remaining seven chapters.

4-22. INSTALLING ADAPTER ASSEMBLIES. (CONT)



4-23. INSTALLING SUBMOUNT ASSEMBLY.

This task covers:

Installation

INITIAL SETUP

Tools

1/2-inch box wrench (2 required) 9/16-inch box wrench (2 required)

Materials/Parts

Submount
5/16-18 x 2 1/4 inch long hex
head screw (8 required)
5/16-18 elastic stop nut
(8 required)
5/16-inch flat washer
(16 required)
1/16-inch shim (as required)
1/8-inch shim (as required)

Personnel Required

Two mechanics

Equipment Condition

Both seats lowered and adapter assemblies installed.

ACTION ITEM REMARKS

WARNING

A helper will be needed to lift and position submount on carrier floor.

NOTE

Loosen all hardware on angle brackets before placing submount into carrier.

 Inside carrier, forward section Submount (1)

Place inside carrier and aline with

adapters.

Bracket (2), shim (3) and adapter (4) Aline holes.

Add shims as required.

2.

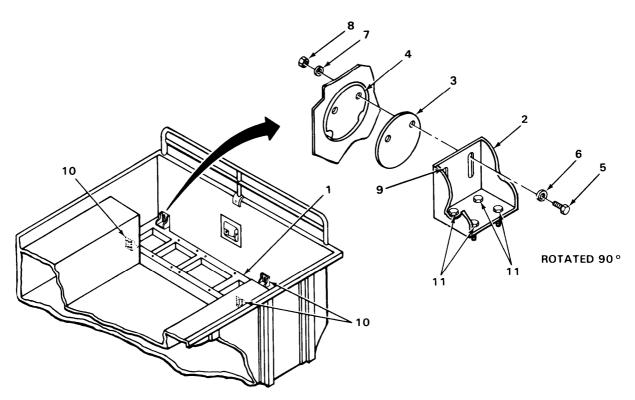
4-23. INSTALLING SUBMOUNT ASSEMBLY. (CONT)

		ACTION	
LOCATION	ITEM	REMARKS	

NOTE

A helper will be needed outside carrier.

3.	Screw (5), flat washer (6), flat washer (7) and nut (8)	Install, handtighten. There are two screws. Step 3 is typical for both screws.
4.	Hole (9)	Do step 3 again.
5.	Brackets (10)	Do steps 2, 3 and 4 again. There are four brackets.
6.	Screws (5)	Using two 1/2 inch box wrenches, tighten.
7.	Screws (11)	Using two 9/16 inch box wrenches, tighten.



4-24. INSTALLING RADIO MOUNT.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

1/2-inch box wrench Two mechanics

Materials/Parts Equipment Condition

5/16-18 x 1 3/4 inch long hex head screw (8 required) 5/16-inch flat washer (8 required) 5/16-inch split lockwasher (8 required)

Radio mount

Submount installed.

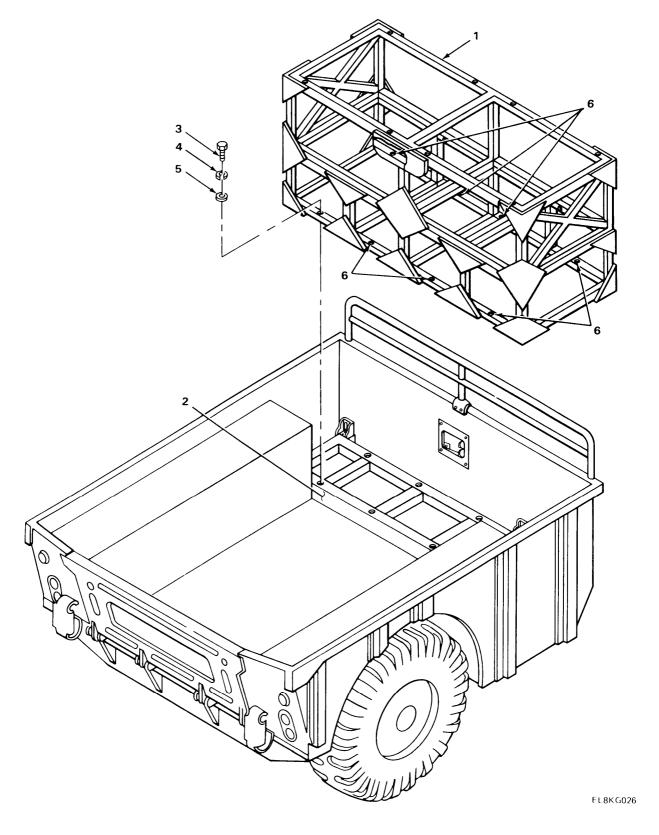
LOCATION ITEM REMARKS

WARNING

A helper will be needed to lift radio mount.

Inside carrier, forward section	Radio mount (1) and submount (2)	Place and aline holes.
2.	Screw (3), lock- washer (4) and flat washer (5)	Install, handtighten. There are eight screws. Step 2 is typical for all eight screws.
3.	Holes (6)	Do step 2 again.
4.	Screws (3)	Using 1/2-inch box wrench, tighten.

4-24. INSTALLING RADIO MOUNT. (CONT)



This task covers:

Preparation

INITIAL SETUP

Tools Materials/Parts (Cont)

White marking pencil 1/2-inch box wrench (2 required)

7/16-inch box wrench

(2 required)

Materials/Parts

Front reinforcement support Electronic equipment table 5/16-24 x 2 1/4 inch long hex head screw (4 required) 5/16-inch flat washer (8 required) 5/16-24 elastic stop nut

(4 required)

1/4-20 x 3 inch long hex head screw (2 required) 1/4-inch flat washer (4 required) 1/4-20 elastic stop nut

(2 required)

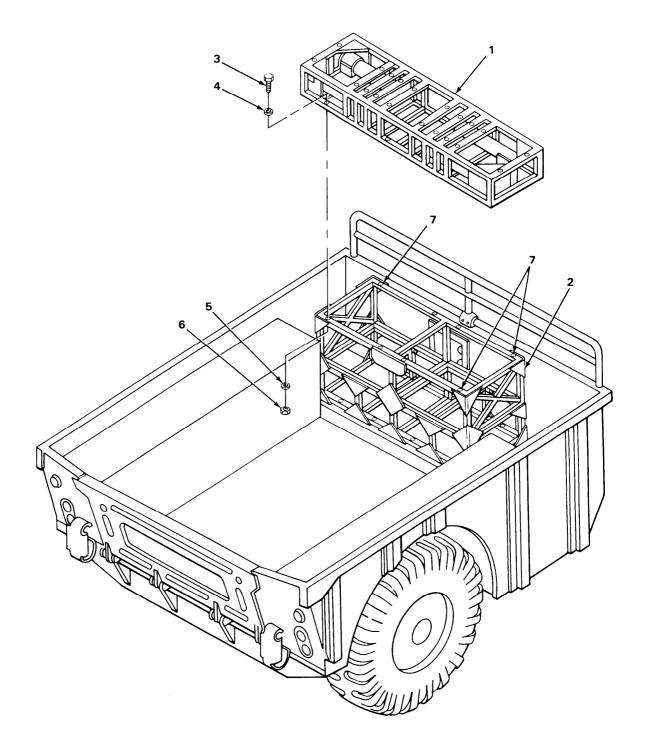
Personnel Required

Two mechanics

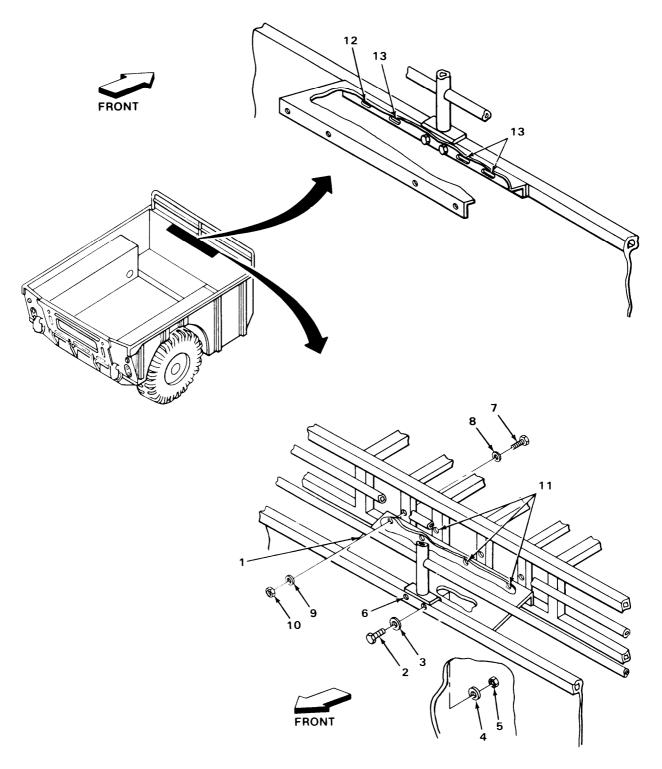
Equipment Condition

Radio mount installed.

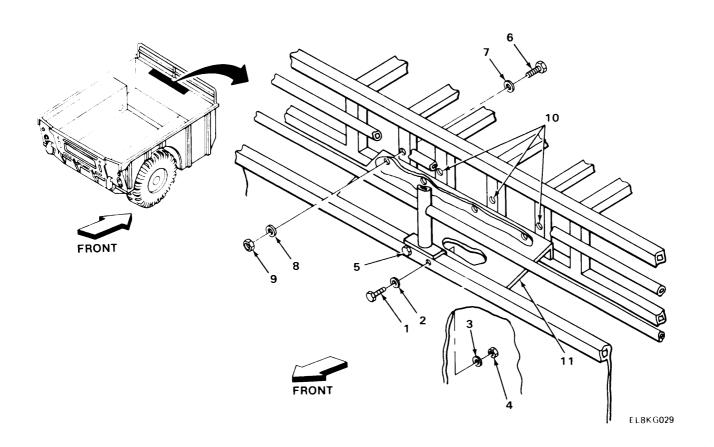
LOCATION	ITEM	ACTION REMARKS
1. Top of radio mount	Table (1) and radio mount (2)	Place table on top of radio mount and aline holes.
2.	Screw (3), flat washer (4), flat washer (5) and nut (6)	Install, handtighten. There are four screws used at this time. Step 2 is typical for all four screws.
3.	Screw holes (7)	Do step 2 again.
4.	Screws (3)	Using two 1/2-inch box wrenches, tighten.



	LOCATION	ITEM	ACTION REMARKS
5.	Forward carrier wall	Reinforcement support (1)	Place support between forward wall and table and aline holes.
6.		Screws (2), flat washer (3), flat washer (4) and nut (5)	Install, handtighten. There are two screws. Step 6 is typical for both screws.
7.		Screw hole (6)	Do step 6 again.
8.		Screw (7), flat washer (8), flat washer (9) and nut (10)	Install, handtighten. There are four screws. Step 8 is typical for all four screws.
9.		Screw holes (11)	Do step 8 again.
10.		Screws (2)	Using two 7/16-inch box wrenches, tighten.
11.		Screws (7)	Using two 1/2-inch box wrenches, tighten.
12.	Under reinforcement support	Mark (12)	Using pencil, mark. Mark in center of slotted holes There are four holes. Step 12 is typical for all four holes.
13.		Mark (13)	Do step 12 again.



ACTION			
	LOCATION	ITEM	REMARKS
14.	Front reinforcement support	Screw (1), flat washer (2), flat washer (3) and nut (4)	Using two 7/16-inch box wrenches, remove. There are two screws. Step 14 is typical for both screws.
15.		Screws (5)	Do step 14 again.
16.		Screw (6), flat washer (7), flat washer (8) and nut (9)	Using two 1/2-inch box wrenches, remove. There are four screws. Step 16 is typical for all four screws.
17.		Screws (10)	Do step 16 again.
18.	Forward carrier wall	Reinforcement support (11)	Remove.



	LOCATION	ITEM	ACTION REMARKS
19.	Electronic equipment table	Screw (1), flat washer (2), flat washer (3) and nut (4)	Using two 1/2-inch box wrenches, remove. There are four screws. Step 19 is typical for all four screws.
20.		Screws (5)	Do step 19 again.
21.		Electronic equip- ment table (6)	Remove.
	4	3	
		20	٣/١١ المالك ²

4-26. CENTER PUNCHING AND DRILLING FRONT REINFORCEMENT SUPPORT MOUNTING HOLES.

TITIO LAON CUVETO	This	task	covers
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- 1. Center punching
- 2. Pilot drilling
- 3. Final drilling

INITIAL SETUP

Tools Personnel Required

Electric drill 1/8-inch drill bit 9/32-inch drill bit Center punch Hammer

Equipment Condition

One mechanic

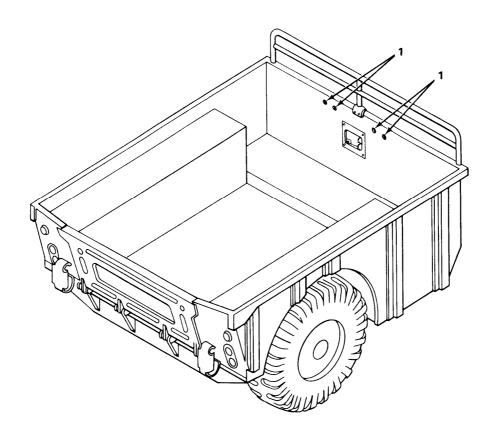
Areas located and marked.

Materials/Parts

None

	LOCATION	ITEM	ACTION REMARKS		
CENTE	R PUNCHING				
	Forward carrier wall	Marks (1)	Using hammer and center punch, punch.		
PILOT DRILLING					
	Forard carrier wall	Marks (1)	Using electric drill and 1/8-inch drill bit, drill.		
FINAL DRILLING					
	Forward carrier wal I	Marks (1)	Using electric drill and 9/32-inch drill bit, drill.		

4-26. CENTER PUNCHING AND DRILLING FRONT REINFORCEMENT SUPPORT MOUNTING HOLES. (CONT)



EL8KG031

4-27. INSTALLING ELECTRONIC EQUIPMENT TABLE.

This task covers:

Installation

INITIAL SETUP

Tools

1/2-inch box end wrench (2 required)

Materials/Parts

Electronic equipment table 5/16-24 x 2 1/4 inch long hex head screw (8 required) 5/16-inch flat washer (16 required) 5/16-24 elastic stop nut (8 required)

Personnel Required

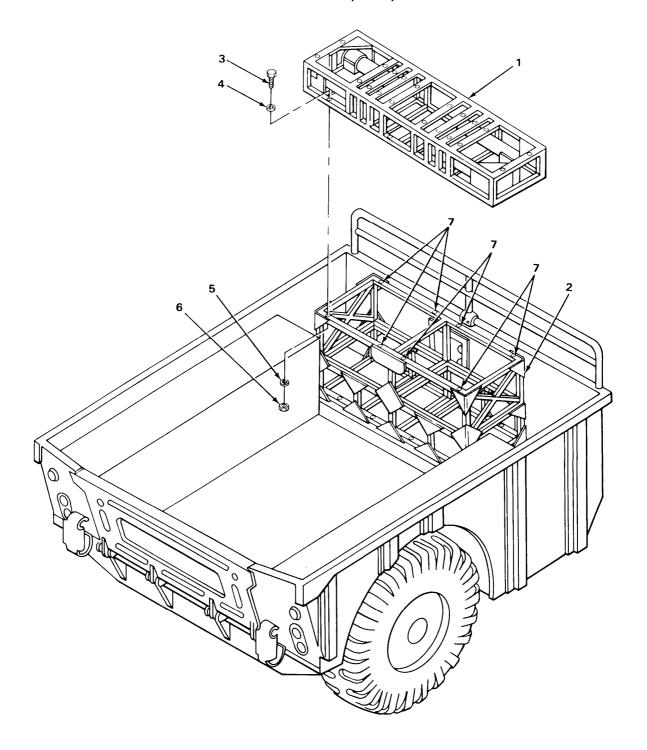
Two mechanics

Equipment Condition

Holes drilled for front reinforcement support.

LOCATION	ITEM	ACTION REMARKS
Top of radio mount	Table (1) and radio mount (2)	Place table on top of radio mount and aline holes.
2.	Screw (3), flat washer (4), flat washer (5) and nut (6)	Install, handtighten. There are eight screws. Step 2 is typical for all eight screws.
3.	Screw holes (7)	Do step 2 again.
4.	Screws (3)	Using two 1/2-inch box wrenches, tighten.

4-27. INSTALLING ELECTRONIC EQUIPMENT TABLE. (CONT)



4-28. INSTALLING FRONT REINFORCEMENT SUPPORT.

This task covers:

Installation

INITIAL SETUP

Tools Materials/Parts (Cont)

Screw hole (8)

Screws (3)

7/16-inch box wrench (2 required) 1/2-inch box wrench

(2 required)

Materials/Parts

Front reinforcement support 1/4-20 x 3 inch long hex head screw (6 required) 1/4-20 eleastic stop nut (6 required) 1/4-inch flat washer (12 required) 1/4-inch split lockwasher

5/16-18 x 1 1/2 inch long hex head screw (4 required) 5/16-18 elastic stop nut (4 required) 5/16-inch flat washer (8 required)

Personnel Required

One mechanic

Equipment Condition

Do step 2 again.

Using two 7/16-inch box wrenches, tighten.

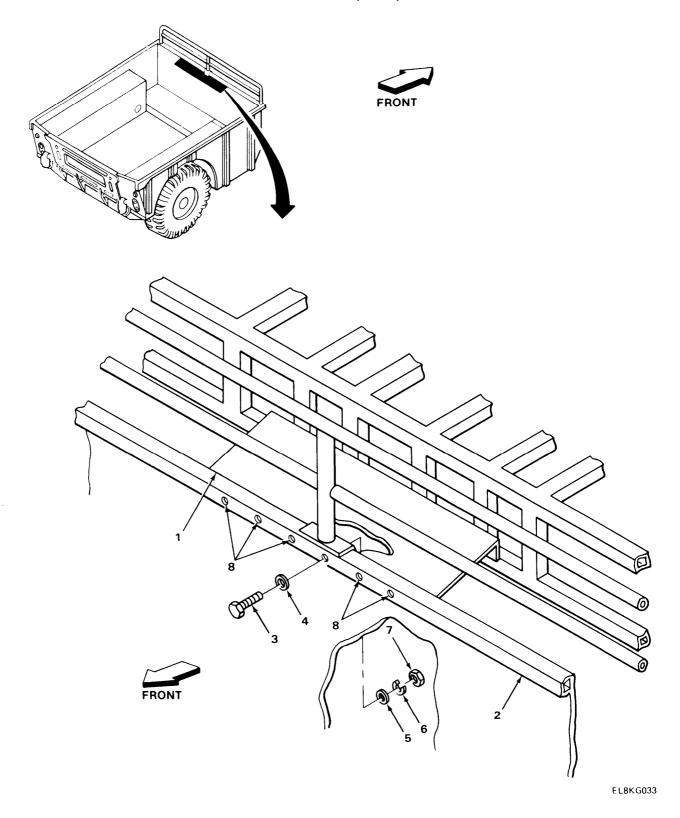
Holes predrilled and electronic equipment table installed.

	LOCATION	ITEM	ACTION REMARKS
1.	Between electronic equipment table and forward wall	Support (1) and forward wall (2)	Install and aline holes.
			NOTE
			All screws must face center of support
2.		Screw (3), flat washer (4), flat washer (5), lockwasher (6) and nut (7)	Install, handtighten. There are six screws. Step 2 is typical for all six screws.

3.

4.

4-28. INTALLING FRONT REINFORCEMENT SUPPORT. (CONT)



4-28. INSTALLING FRONT REINFORCEMENT SUPPORT. (CONT)

	LOCATION	ITEM	ACTION REMARKS
5.	Between electronic equipment table and forward wall	Support (1) and table (2)	Aline holes
6.		Screw (3), flat washer (4), flat washer (5) and nut (6)	Install, handtighten. There are four screws. Step 5 is typical for all four screws.
7.		Screw holes (7)	Do step 5 again.
3.		Screws (3)	Using two 1/2-inch box wrenches, tighten.
		6	FRONT

4-29. INSTALLING KEY GENERATOR RACK.

This task covers:

Installation

INITIAL SETUP

Tools

1/2-inch box wrench (2 required)

Materials/Parts

Key generator rack 5/16-24 x 2 1/4 inch long screw (4 required) 5/16-inch flat washer (8 required) 5/16-24 elastic stop nut (4 required) Personnel Required

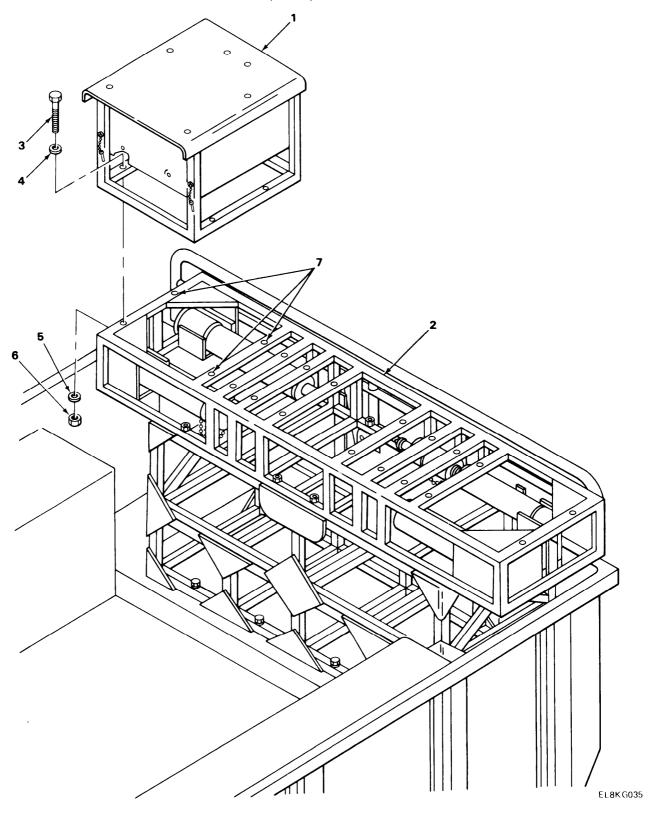
One mechanic

Equipment Condition

Electronic equipment table in place.

LOCATION	ITEM	ACTION REMARKS
Top of electronic equipment table ir roadside position	Key generator rack (1) and electronic equipment table (2)	Place key generator rack on top of electronic equipment table and aline mounting holes.
2.	Screw (3), flat washer (4), flat washer (5) and elastic stop nut (6)	Install, handtighten. There are four screws. Step 2 is typical of all four screws.
3.	Holes (7)	Do step 2 again.
4.	Screws (3) and elastic stop nuts (6)	Using two 1/2-inch box wrenches, tighten.

4-29. INSTALLING KEY GENERATOR RACK. (CONT)



4-30. INSTALLING MESSAGE ENTRY GROUP RACK.

This task covers:

Installation

INITIAL SETUP

Tools

1/2-inch box wrench (2 required)

Materials/Parts

Message entry group rack 5/16-24 x 2 1/2 inch long screw (4 required) 5/16-inch flat washer (3 required) 5/16-inch elastic stop nut (4 required) Personnel Required

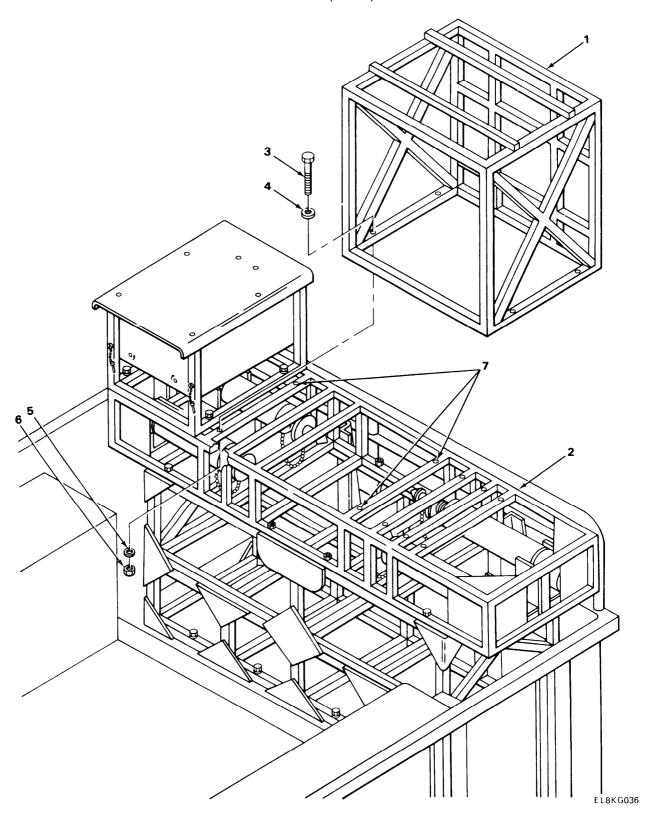
One mechanic

Equipment Condition

Electronic equipment table in place.

LOCATION	ITEM	ACTION REMARKS
Top of electronic equipment table in center position	Message entry group rack (1) and electronic equip- ment table (2)	Place message entry group rack on top of electronic equipment table and aline mounting holes.
2.	Screw (3), flat washer (4), flat washer (5) and elastic stop nut (6)	Install, handtighten. There are four screws. Step 2 is typical for all four screws.
3.	Holes (7)	Do step 2 again.
4.	Screws (3) and elastic stop nuts (6)	Using two 1/2-inch box wrenches, tighten.

4-30. INSTALLING MESSAGE ENTRY GROUP RACK. (CONT)



4-31. INSTALLING ELECTRONIC LINE PRINTER RACK.

This task covers:

Installation

INITIAL SETUP

Tools

1/2-inch box wrench (2 required)

Materials/Parts

Electronic line printer rack 5/16-24 x 2 1/4 inch long screw (4 required) 5/16-inch flat washer (8 required) 5/16-inch elastic stop nut (4 required) Personnel Required

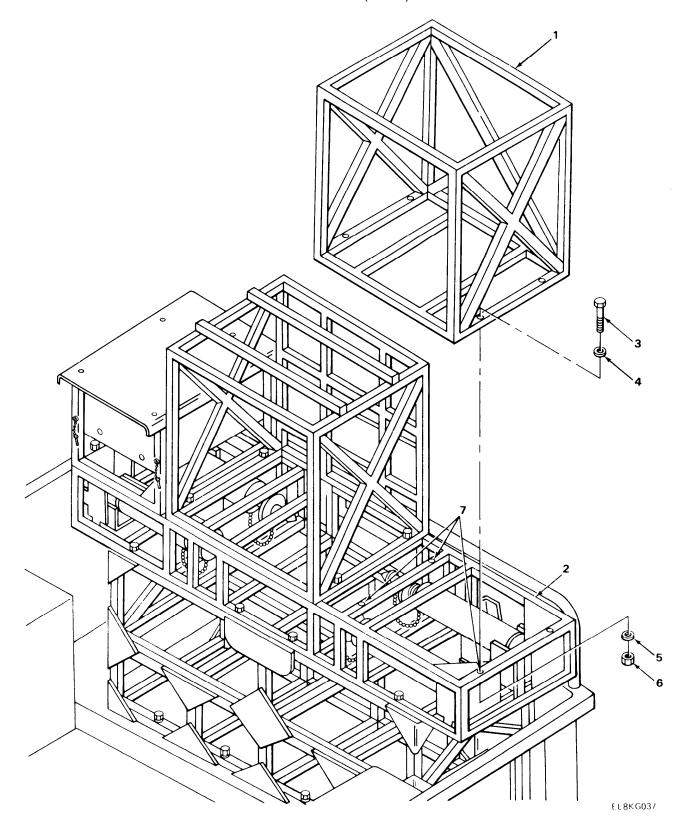
One mechanic

Equipment Condition

Electronic equipment table in place.

	LOCATION	ITEM	ACTION REMARKS
ed (2	op of electronic quipment table) in curbside osition	Electronic line printer rack (1) and electronic equipment table (2)	Place electronic line printer rack on top of electronic equipment table and aline mounting holes.
2.		Screw (3), flat washer (4), flat washer (5) and elastic stop nut (6)	Install, handtighten. There are four screws. Step 2 is typical for all four screws.
3.		Holes (7)	Do step 2 again.
4.		Screws (3) and elastic stop nuts (6)	Using two 1/2-inch box wrenches, tighten.

4-31. INSTALLING ELECTRONIC LINE PRINTER RACK. (CONT)



4-32. INSTALLING ELECTRONIC LINE PRINTER SLIDING TRAY.

This task covers:

Installation

INITIAL SETUP

Tools

9/16-inch box wrench

Materials/Parts

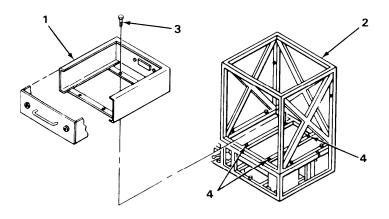
ELP sliding tray 3/8-24 x 7/8 inch long hex head screw (4 required) Personnel Required

One mechanic

Equipment Condition

ELP rack installed.

LOCATION	ITEM	ACTION REMARKS
1. Inside ELP rack	ELP tray (1) and ELP rack (2)	Place tray inside rack and aline holes.
2.	Screw (3)	Install, handtighten. There are four screws. Step 2 is typical for all four screws.
3.	Screws (4)	Do step 2 again.
	Screws (3)	Using 9/16-inch box wrench, tighten.



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4-3. INSTALLING 4-INCH GROUND STRAPS.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

Adjustable pliers One mechanic

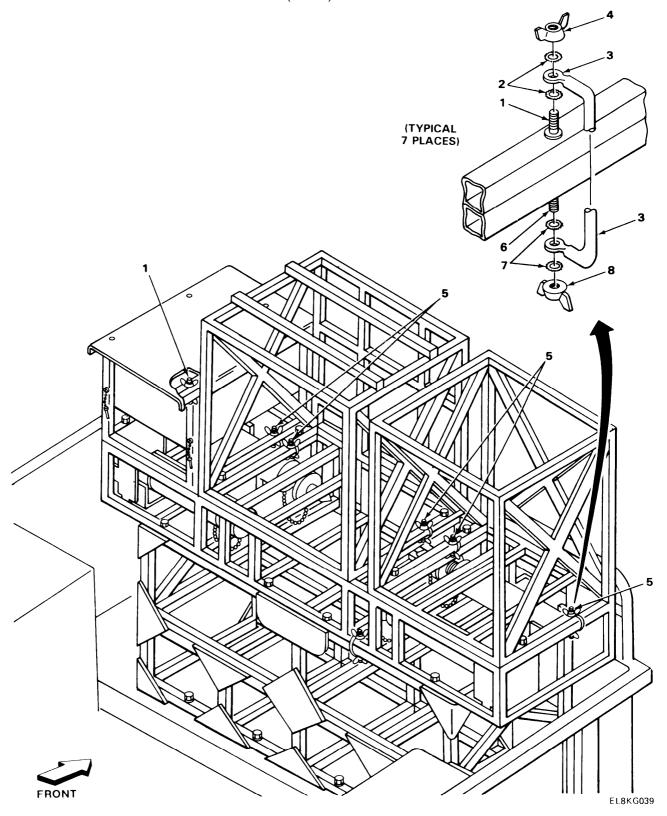
Materials/Parts Equipment Condition

4-inch ground strap (7 required) IT #10 lockwasher (28 required) Brass wingnut (14 required)

Tacfire racks installed.

	LOCATION	ITEM	ACTION REMARKS
1.	Upper studs, electronic equip- ment rack and electronic equip- ment table	Ground strap stud (1), lock- washer (2), ground strap (3) and wingnut (4)	Using pliers, install. There are seven ground strap studs. Step 1 is typical for all seven studs.
2.		Ground strap studs (5)	Do step 1 again.
3.	Lower studs, electronic equipment rack and electronic equipment table	Ground strap studs (6), lock- washers (7), ground strap (3) and wingnut (8)	Do steps 1 and 2 again.

4-33. INSTALLING 4-INCH GROUND STRAPS. (CONT)



4-34. INSTALLING RADIO POWER CABLES TO RADIOS.

This task covers:
Installation

INITIAL SETUP

Tools Personnel Required

None One mechanic

Materials/Parts Equipment Condition

Cable Assembly, SP, CX-13050 Cable Assembly, SP, CX-13052 (2 required) Cable Assembly, SP,CX-4721 Radio Mounting Base, MT-1029 (2 required) Radio Mounting Base, MT-1898 Terminal plugs removed from radio mounting bases.

	LOCATION	ITEM	ACTION REMARKS
1. l	Underside rear of roadside MT-1029 radio mounting base	Cable CX-13052 (1) and J21 (2)	Connect. To complete installation, see paragraph 4-37.
2.		Cable CX-4721 (3) and J22 (4)	Connect. For comsec use only.
3.		Cable CX-13050 (5) and J23 (6)	Connect.
	Jnderside rear of curbside MT-1029 radio mounting base	Cable CX-13050 (5) and J21 (7)	Route and connect.
5.		Cable CX-4721 (8) and J22 (9)	Connect. For comsec use only.
6.		Cable CX-13052 (10) and J23 (11)	Connect.

4-34. INSTALLING RADIO POWER CABLES TO RADIOS. (CONT)

LOCATION	ITEM	ACTION REMARKS	
 Underside rear of curbside MT-1898 radio mounting base 	Cable CX-13052 (10) and J21 (12)	Connect.	
VEHICLE POWER 3	EW 8	9	EL.8KG040

4-35. INSTALLING RADIO MOUNTING BASES.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

1/2-inch box wrench One mechanic

Materials/Parts Equipment Condition

5/16-18 hex nuts (14 required) 5/16-inch ET lockwashers

(14 required)

Power cables installed on

mounting bases.

		ACTION
LOCATION	ITEM	REMARKS

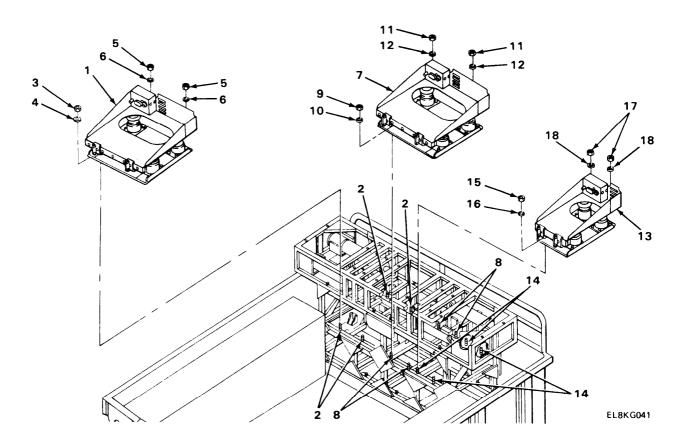
NOTE

Install radio mounting bases with latches facing out.

Roadside position of radio mount	Radio mounting base (1) and studs (2)	Place on studs.
2.	Nut (3) and ET lockwasher (4)	Using 1/2-inch box wrench, install. There are five nuts. Step 2 is typical for all five nuts.
3.	Nuts (5) and ET lockwashers (6)	Do step 2 again.
Curbside position of radio mount	Radio mounting base (7) and studs (8)	Place on to studs.
5.	Nut (9) and ET lockwasher (10)	Using 1/2-inch box wrench, install. There are five nuts. Step 5 is typical for all five nuts.

4-35. INSTALLING RADIO MOUNTING BASES. (CONT)

LOCATION	ITEM	ACTION REMARKS
Curbside position of radio mount	Nuts (11) and ET lockwashers (12)	Do step 5 again.
Curbside corner position of radio mount	Radio mounting base (13) and studs (14)	Place on to studs.
8.	Nut (15) and ET lockwasher (16)	Using 1/2-inch box wrench, install. There are four nuts. Step 8 is typical for all four nuts.
9.	Nuts (17) and ET lockwasher (18)	Do step 8 again.



4-36. INSTALLING TACFIRE COMPONENTS.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

Flat-tip screwdriver Two mechanics
Cross-tip screwdriver

Equipment Condition Materials/Parts

Tacfire racks installed.

Message entry group Electronic line printer Key generator 5/16-24 x 1/2 inch long flat head screw (4 required)

ACTION LOCATION ITEM REMARKS

NOTE

Carefully slide tacfire components into place engaging shear pins on rear of racks. This is typical for steps 1 and 2.

1. Electronic line printer rack

Electronic line printer (1)

Install.

NOTE

Install, handtighten.

ELP is mounted to a sliding tray. See paragraph 4-32 for installation of tray.

2. Message entry group rack

Message entry group (2)

Install.

Key generator rack

Key generator (3) and KG tray (4)

Place key generator on tray and aline holes.

Screw (5)

There are four screws. Step 4 is typical for all four screws.

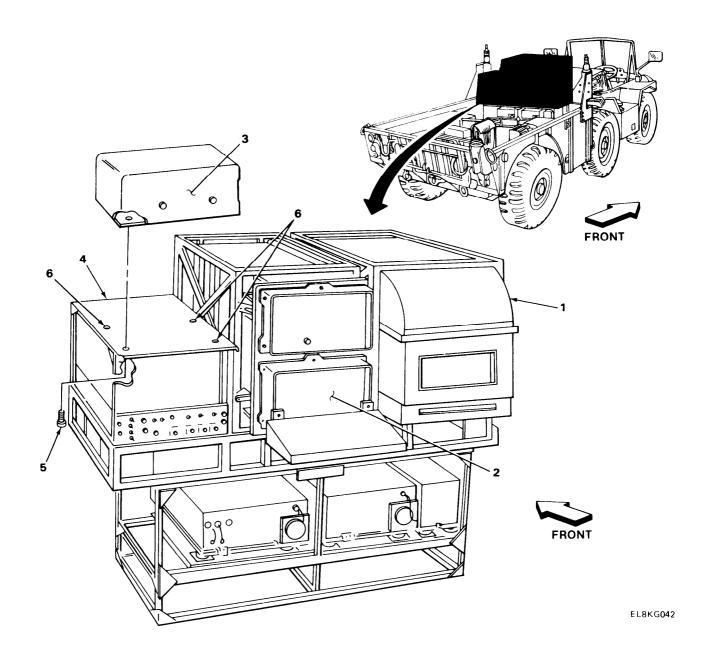
4.

4-36. INSTALLING TACFIRE COMPONENTS. (CONT)

	LOCATION	ITEM	ACTION REMARKS	
5.		Screw holes (6)	Do step 4 again.	

NOTE

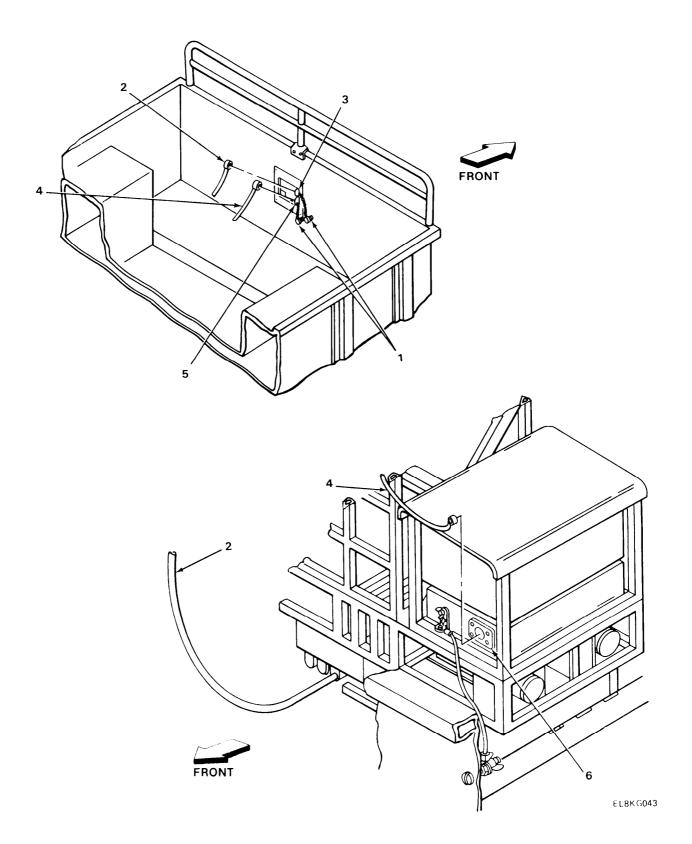
For completion of tacfire component installation, refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.



4-37. INSTALLING RADIO AND POWER DISTRIBUTION BOX POWER CABLES TO VEHICLE POWER.

This task covers: Installation		
INITIAL SETUP		
Tools		Personnel Required
None		One mechanic
Materials/Parts		Equipment Condition
Cable Assembly, Pwr, E 10 ft	lect,	Cable Assembly, CX-13052 connected to roadside radio.
LOCATION	ITEM	ACTION REMARKS
		WARNING
		Make sure all power is off.
Carrier forward wall power receptacle	Protective caps (1)	Remove. There are two caps.
2.	Cable, CX-13052 (2) upper plug (3)	Route and connect. For connection of opposite end of cable see paragraph 4-34.
3.	Cable, (4) and lower plug (5)	Connect.
Rear of power distribution box	Cable, (4) and receptacle (6)	Route and connect.

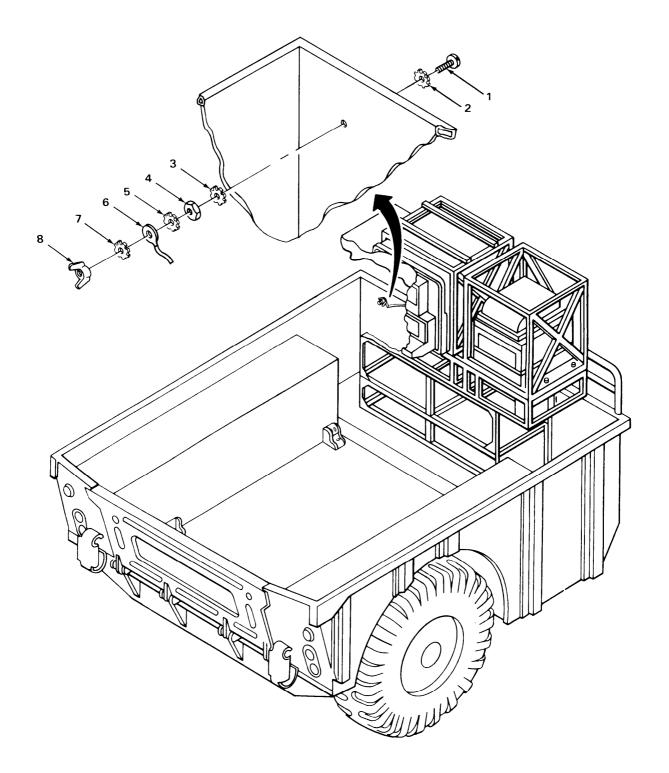
4-37. INSTALLING RADIO AND POWER DISTRIBUTION BOX POWER CABLES TO VEHICLE POWER. (CONT)



4-38. INSTALLING 25-INCH GROUND STRAP TO FRONT WALL.

This task covers:		
Installation		
INITIAL SETUP		
Tools		Materials/Parts (Cont)
9/16-inch box wrench Flat-tip screwdriver Adjustable pliers		3/8-16 brass nut Sandpaper Degreaser
Materials/Parts		Personnel Required
25-inch ground strap 3/8-inch brass wingnut 3/8-16 by 1 1/4 inch long brass screw 3/8-inch IT lockwasher (4 required)		One mechanic Equipment Condition Hole predrilled.
LOCATION	ITEM	ACTION REMARKS
		NOTE
		and degreaser to remove paint and grease from d hole in carrier wall.
Forward roadside corner of carrier wall	Brass screw (1), IT lockwasher (2), IT lockwasher (3) and brass nut (4)	Using 9/16-inch box wrench and flat-tip screwdriver, install.
2.	IT lockwasher (5), ground strap (6), IT lockwasher (7) and wingnut (8)	Using pliers, install.

4-38. INSTALLING 25-INCH GROUND STRAP TO FRONT WALL. (CONT)

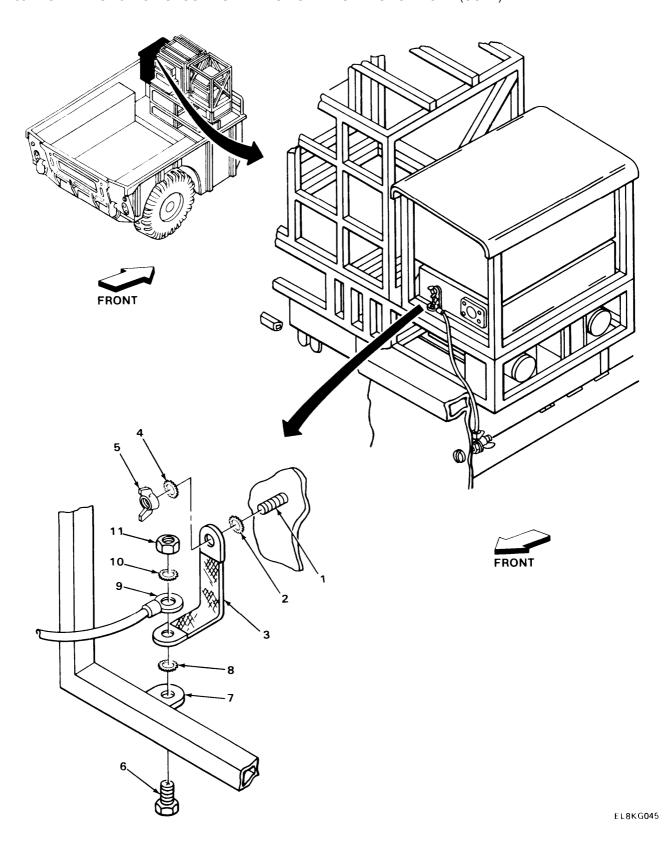


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ground strap (9), IET lockwasher (10) and nut (11)

4-39. INSTALLING 25-INCH GROUND STRAP TO POWER DISTRIBUTION BOX. This task covers: Installation **INITIAL SETUP** Tools Personnel Required One mechanic 9/16-inch box wrench (2 required) Adjustable pliers **Equipment Condition** Materials/Parts 25-inch ground strap attached to forward carrier wall. See paragraph 4-36 for installation 3/8-24 x 2 inch long brass screw 3/8-inch IET lockwasher of power distribution box. (4 required) 3/8-24 nut 3/8-24 wingnut 6-inch braided ground strap 25-inch ground strap **ACTION LOCATION** ITEM **REMARKS** WARNING Make sure all power is off. Install. Using pliers, tighten. 1. Rear of power dis-Stud (1), IET tribution box lockwasher (2), 6-in. ground strap (3), IET lockwasher (4) and wingnut (5) Aline with hole in tab on rear of rack. 2. Rear of key 6-inch ground (3) generator rack 3. Screw (6), tab (7) Install. Using two 9/16-inch box wrenches, IET lockwasher tighten. (8), 6-inch ground strap (3), 25-inch

4-39. INSTALLING 25-INCH GROUND STRAP TO POWER ISTRIBUTION BOX. (CONT)



4-40. INSTALLING SLEDGE HAMMER AND MOUNTING BRACKETS.

This task covers:

Installation

INITIAL SETUP

Tools Materials/Parts (Cont)

7/16-inch box end wrench Spring clip Sledge hammer

Materials/Parts

Personnel Required

1/4-20 x 1 3/4 inch long hex
head screw (3 required)

1/4-inch flat washer

14-inch split lockwasher

One mechanic

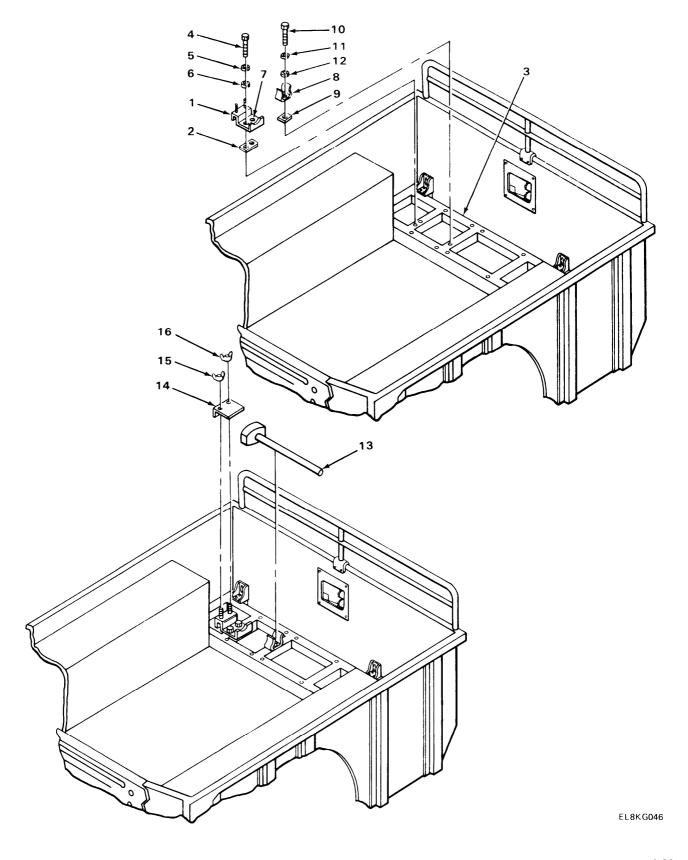
Equipment Condition

Spacer, SC-B-866250 Spacer, SC-B-866251 Sledge hammer bracket

Submount installed.

	LOCATION	ITEM	ACTION REMARKS
1.	Submount, roadside	Bracket (1), spacer (2) and submount (3)	Place and aline holes.
2.		Screw (4), lock- washer (5) and flat washer (6)	Using 7/16-inch box wrench, install. There are two screws. Step 2 is typical for both screws.
3.		Screw hole (7)	Do step 2 again.
4.		Spring clip (8), spacer (9) and submount (3)	Place and aline holes.
5.		Screw (10), lock- washer (11) and flat washer (12)	Using 7/16-inch box wrench, install.
6.	Submount, roadside	Sledge hammer (13)	Install.
7.		Sledge hammer bracket cover (14) and wingnut (15)	Install.
8.		Wingnut (16)	Install.

4-40. INSTALLING SLEDGE HAMMER AND MOUNTING BRACKETS. (CONT)



4-41. INSTALLING FLOOR BASE.

This task covers:

Installation

INITIAL SETUP

Tools

1/2-inch box wrench (2 required) 9/16-inch box wrench (2 required)

Materials/Parts

5/16-18 x 2 1/4 inch long screws (8 required) 5/16-18 elastic stop nuts (8 required) 5/16-inch flat washers (16 required) Personnel Required

Two mechanics

Equipment Condition

Angle brackets installed on floor base, all hardware loosened and adapter assemblies installed (para 4-22).

		ACTION
LOCATION	ITEM	REMARKS

NOTE

A helper will be needed to place and aline floor base in carrier floor.

1. Inside carrier Floor base (1) Install in carrier.

Brackets (2), Aline holes.
shim (3) and Add shims as required.
adapter (4)

NOTE

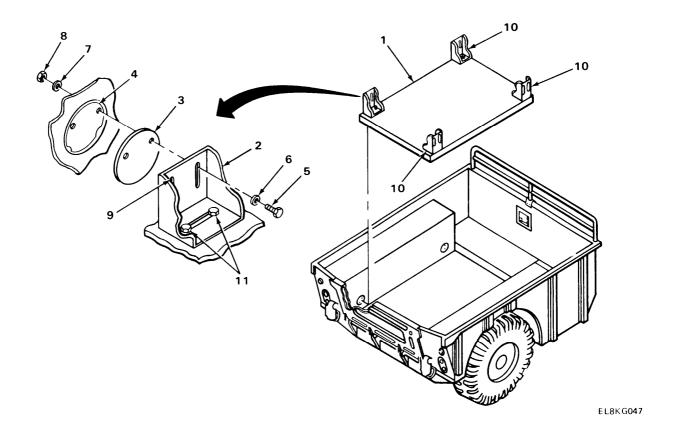
A helper will be needed outside carrier.

3. Screw (5), Install, handtighten.
flat washer (6), There are two screws. Step 3 is
flat washer (7) typical for both screws.
and nut (8)

2.

4-41. INSTALLING FLOOR BASE. (CONT)

	LOCATION	ITEM	ACTION REMARKS
4.		Screw holes (9)	Do step 3 again. There are four brackets. Step 4 is typical for all four brackets.
5.		Brackets (10)	Do steps 2, 3 and 4 again.
6.		Screws (5)	Using two 1/2-inch box wrenchs, tighten.
7.		Screws (11)	Using two 9/16-inch box wrenches, tighten.



4-42. INSTALLING FUEL FILLER NOZZLE AND BRACKET.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

1/2-inch box wrench One mechanic

Materials/Parts Equipment Condition

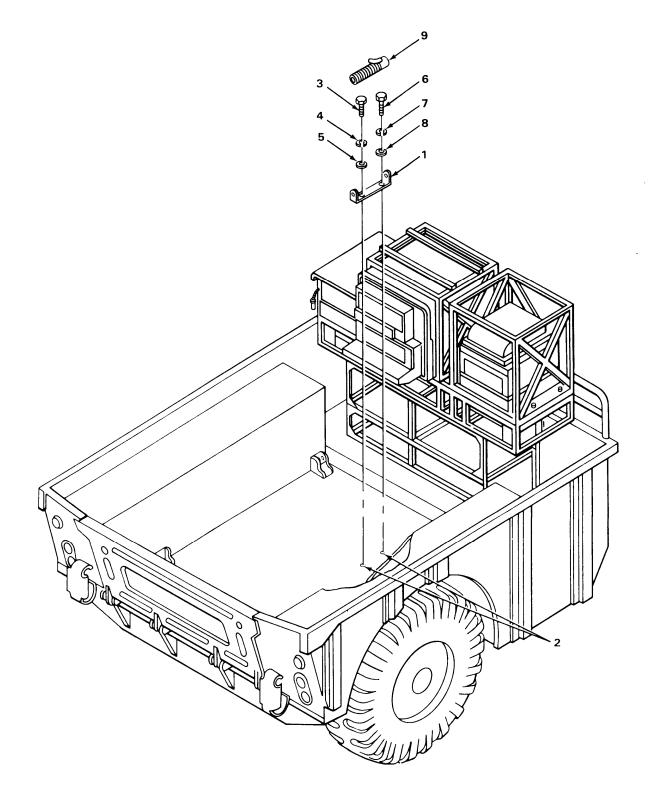
Fuel filler nozzle
Fuel filler nozzle bracket
5/16-18 x 1 inch long screw
(2 required)
5/16-inch flat washer
(2 required)
5/16-inch lockwasher
(2 required)

Floor base installed.

LOCATION ITEM ACTION REMARKS

	LOCATION	IIEM	REMARKS
1.	. Front curbside position of floor base	Fuel filler nozzle bracket (1) and floor base holes (2)	Aline.
2.		Screw (3), lock- washer (4) and flat washer (5)	Install, handtighten.
3.		Screw (6), lock- washer (7) and flat washer (8)	Install, handtighten.
4.		Screw (3) and screw (6)	Using 1/2-inch box wrench, tighten.
5	. Fuel filler nozzle bracket	Fuel filler nozzle (9)	Install.

4-42. INSTALLING FUEL FILLER NOZZLE AND BRACKET. (CONT)



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4-43. INSTALLING FUEL CAN AND BRACKET.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

1/2-inch box wrench One mechanic

Materials/Parts Equipment Condition

strap (8)

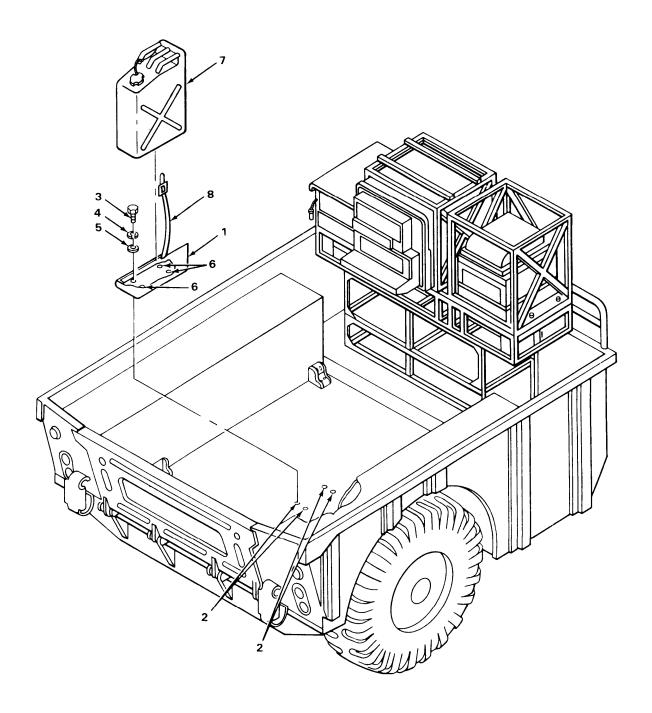
Fuel can bracket 5/16-18 x 1 inch long screw (4 required) 5/16-inch flat washer (4 required) 5/16-inch lockwasher (4 required) Floor base installed.

	LOCATION	ITEM	ACT R	ION EMARKS
pos	r curbside ition of r base	Fuel can bracket (1) and floor base holes (2)	Aline.	Position high side of bracket to curbside.
2.		Screw (3), lock- washer (4) and flat washer (5)	Install,	handtighten. There are four screws. Step 1 is typical for all four screws.
3.		Screw holes (6)	Do step	o 2 again.
4.		Screws (3)	Using	1/2-inch box wrench, tighten.
5. Fuel	can	Fuel can (7) and	Place f	uel can in bracket and secure with

strap.

bracket

4-43. INSTALLING FUEL CAN AND BRACKET. (CONT)



4-44. INSTALLING GENERATOR.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

Adjustable pliers Two mechanics

Materials/Parts Equipment Condition

Generator

Generator mounting strip

(2 required)

Nut plates installed in floor base

at depot and floor base

installed.

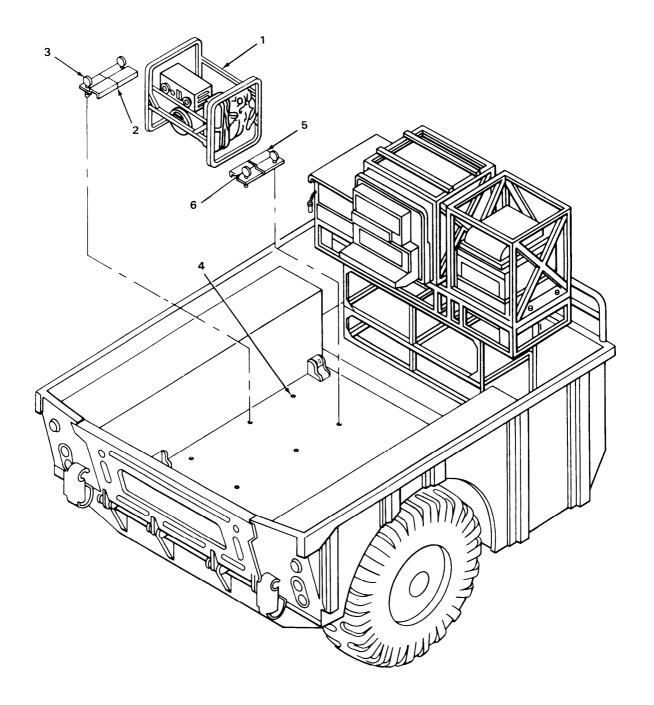
ACTION ITEM **REMARKS**

NOTE

A helper will be needed to lift and position battery box on carrier bed floor.

Roadside of carrier bed floor	Generator (1)	Place generator on floor base between nut plate holes.
Generator road- side rail	Roadside mounting strip (2) and wingnut (3)	Install, handtighten.
3.	Wingnut hole (4)	Do step 2 again.
Generator curb- side rail	Curbside mounting strip (5)	Do steps 2 and 3 again.
5.	Wingnuts (3) and wingnut (6)	Using pliers, tighten.

4-44. INSTALLING GENERATOR. (CONT)



4-45. INSTALLING BATTERY BOX.

LOCATION

This task covers:		
Installation		
INITIAL SETUP		
Tools	Personnel Required	
Adjustable pliers	Two mechanics	
Materials/Parts	Equipment Condition	
Battery box	Generator installed.	
	ACTION	

ITEM

NOTE

REMARKS

A helper will be needed to lift and position generator on carrier bed floor.

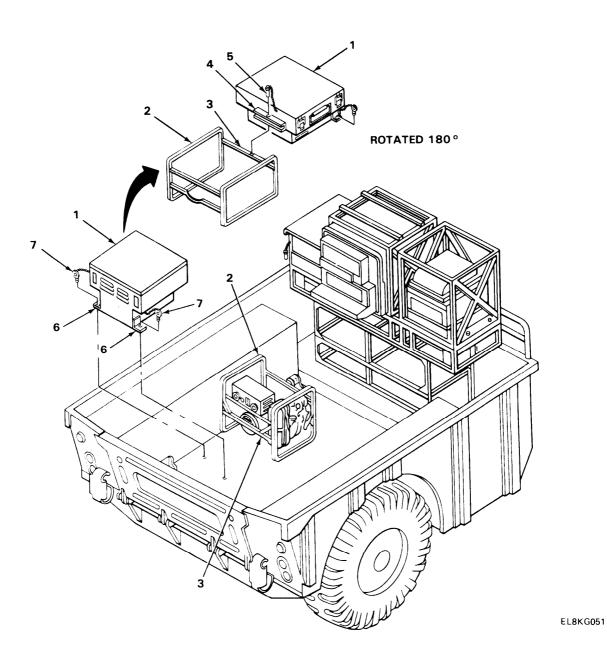
Rear roadisde position of carrier bed behind generator	Battery box (1) and generator frame (2)	Place battery box behind generator frame.
2.	Generator frame rear cross member (3) and battery box Cbracket (4)	Install.
3.	Quick release pin (5)	Install.
4.	Mounting tab (6) and wingnut (7)	Aline and install, handtighten.
5. Curbside of battery box	Mounting tab (6) and wingnut (7)	Do step 4 for remaining mounting tab and wingnut.

4-45. INSTALLING BATTERY BOX. (CONT)

	LOCATION	ITEM	ACTION REMARKS	
6.		Wingnuts (7)	Using pliers, tighten.	

NOTE

Use nylon straps to secure battery box cables to generator cross bar when cables are not in use.



4-46. INSTALLING BATTERIES AND HOLDDOWN.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

Adjustable pliers One mechanic

Materials/Parts Equipment Condition

45 amp H.R. lead-acid battery (2 required) Threaded J-bolt (4 required) Battery holddown Nut (4 required) Flat washer (4 required) Battery box installed.

LOCATION ITEM REMARKS

WARNING

When using battery acid, be sure to work in a well ventilated area, use proper eye protection, and wear rubber gloves. Should you come in contact with battery acid, be sure to wash the affected area with cool water, then seek immediate medical aid.

CAUTION

Upon receipt of lead-acid batteries, batteries must be filled with sulfuric acid and charged before they can be installed. See decal on inside of battery box for correct polarity for positioning of batteries.

1. Inside battery box

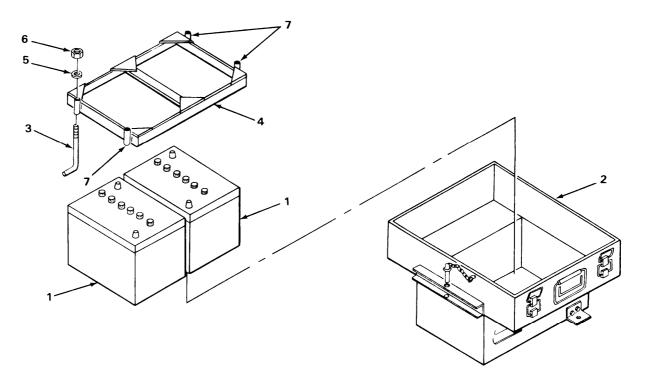
Batteries (1) and battery box (2)

Place batteries in battery box.

4-46. INSTALLING BATTERIES AND HOLDDOWN. (CONT)

	REMARKS
J-bolt (3) battery hold- down bracket (4), flat washer (5) and nut (6)	Using pliers, install. Hook J-bolt-thru loop in battery box and slide on battery holddown bracket. There are four J-bolts. Step 2 is typical for all four J-bolts.
Holes (7)	Do step 2 again.
	battery hold- down bracket (4), flat washer (5) and nut (6)

Before connecting battery terminal ends, be sure all circuit breakers are in the OFF position.

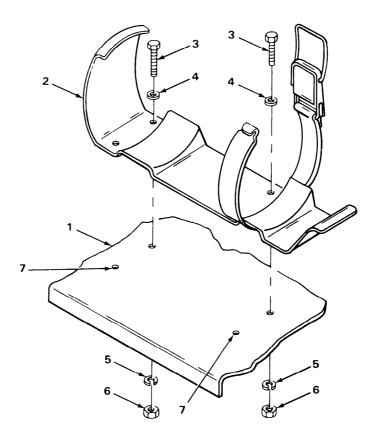


4-47. INSTALLING FIRE EXTINGUISHER MOUNTING BRACKET.

This task covers: Installation INITIAL SETUP Tools Personnel Required One mechanic 7/16-inch box wrench (2 required) **Equipment Condition** Materials/Parts Battery box installed. 1/4-20 x 1/2 inch long screw (4 required) 1/4-20 nut (4 required) 1/4-inch flat washer (4 required) 1/4-inch lockwasher (4 required) Fire extinguisher mounting bracket

LOCATION	ITEM	ACTION REMARKS
Battery box cover	Battery box cover (1) and fire extinguisher bracket (2)	Place and aline holes. Strap on bracket must face curbside of vehicle.
2.	Screw (3), flat washer (4), lockwasher (5) and nut (6)	Install, handtighten. There are four screws. Step 2 is typical for all four screws.
3.	Holes (7)	Do step 2 again.
4.	Screws (3) and nuts (6)	Using two 7/16-inch box wrenches, tighten.

4-47. INSTALLING FIRE EXTINGUISHER MOUNTING BRACKET. (CONT)



4-48. INSTALLING FIRE EXTINGUISHER.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

None One mechanic

Materials/Parts Equipment condition

Fire extinguisher bracket installed.

	LOCATION	ITEM	ACTION REMARKS	
1.	Top of battery box	Fire extinguisher (1) and fire extinguisher bracket (2)	Place fire extinguisher in fire extinguisher. Handle faces toward curbside vehicle wall.	sher
2.	2	Strap (3)	Secure.	. 1 ει8κς054

4-49. INSTALLING CANVAS CABLE BAG.

This task covers:

Installation

INITIAL SETUP

3.

Tools Personnel Required

None One mechanic

Materials/Parts Equipment Condition

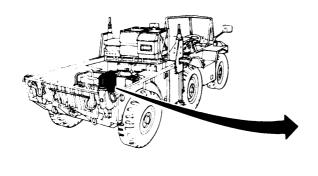
Canvas straps (3)

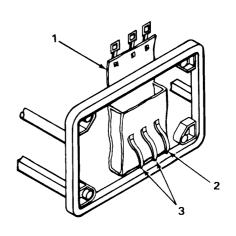
Canvas cable bag Generator installed.

LOCATION	ITEM	REMARKS
INSTALLATION		
Curbside generator rail	Canvas cable bag (1)	Place canvas cable bag on curbside generator rail.
2.	Canvas strap (2)	Secure. There are three canvas straps. Step 2 is typical for all three canvas straps.

ACTION

Do step 2 again.





4-50. INSTALLING ANTENNA CABLING.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

Electric drill 3/32-inch drill bit Cutting pliers

Equipment Condition

One mechanic

Flat-tip screwdriver

Antenna mounting bases installed.

Materials/Parts

Control cable (3 required) RF cable (3 required) Cable clamp kit

		ACTION
LOCATION	ITEM	REMARKS

NOTE

Cable clamps must be cut into desired lengths, using cutting pliers before installing.

1.	Front	roa	dside
	moun	ting	base

RF cable (1) and control cable (2)

Route.

Routing must be done close to the underside of carrier bed side wall

top rail.

2.

Carrier walls (3)

Using electric drill and 3/32-inch drill bit,

drill.

Drill every two to three feet following cables.

3.

RF cable (1), control cable (2), cable clamp (4) and screw (5) Using flat-tip screwdriver, install.

NOTE

See SB 11-131 for antenna cabling hook-ups.

4-50. INSTALLING ANTENNA CABLING. (CONT)

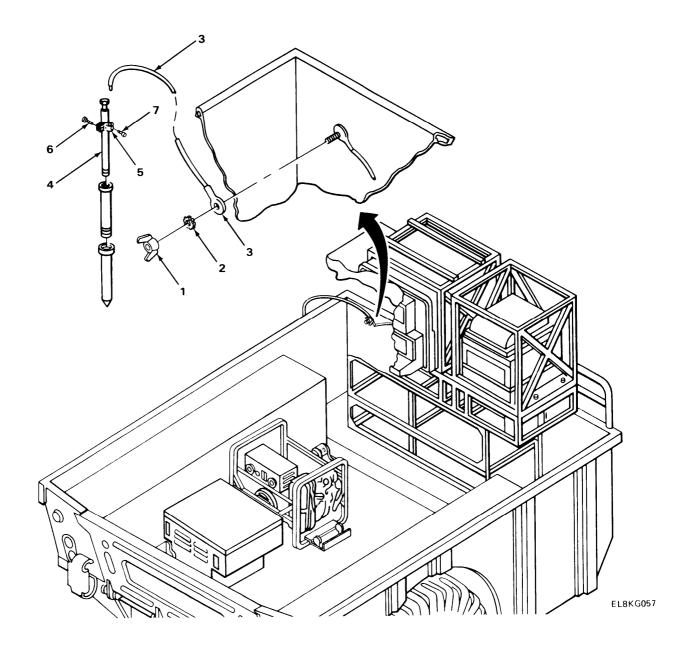
	LOCATION	ITEM	ACTION REMARKS
4.	Front curbside antenna mounting base	Antenna (6)	Do steps 1, 2 and 3 again.
5.	Rear curbside antenna mounting base	Antenna (7)	Do steps 1, 2 and 3 again.
3			FRONT

4-51. INSTALLING EXTERNAL GROUND ROD KIT.

This task covers: Installation INITIAL SETUP Tools Personnel Required 8-lb sledge hammer One mechanic Flat-tip screwdriver Adjustable pliers **Equipment Condition** Materials/Parts Vehicle at field operation site. Ground rod clamp kit Ground rod assembly (10 feet) Ground rod, sectional (9 feet) **ACTION ITEM** LOCATION **REMARKS** NOTE The external ground rod is used only when vehicle is not moving. It is stored between the roadside carrier bed side wall and generator. 1. Forward roadside Wingnut (1) and Using pliers, remove. corner of carrier IT lockwasher (2) inner wall 2. Wingnut (1), IT Using pliers, install. lockwasher (2) and 10 foot ground strap (3) NOTE The ground rod comes in three sections. Using driving stud and sledge hammer, drive one section into ground. After a section is driven into ground, connect next section to it. 3. Outside vehicle Ground rod (4), Using flat-tip screwdriver, install. ground rod clamp (5) and clamp screw (6)

4-51. INSTALLING EXTERNAL GROUND ROD KIT. (CONT)

LOCATION	ITEM	ACTION REMARKS
4. Outside vehicle	10 foot ground strap (3) and clamp screw (7)	Using flat-tip screwdriver, install.



Section IV PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

There are no special organizational preventive maintenance checks and services for this equipment. Routine checks like equipment inventory, broken cables, replacing damaged items, tightening loose hardware, equipment painting are not listed in PMCS table. You should do these checks and services daily or at any time you see they need to be done.

Section V ORGANIZATIONAL MAINTENANCE

No troubleshooting procedures for the Electronics Equipment Installation Kit MK-1819/GSG-10(V) and Power Accessory Kit MK-1821/GSG-10(V) are given in this manual. For organizational troubleshooting procedures for the electronic equipment, refer to manuals TM 11-7440-253-10-1 and TM 11-7440-251-10.

Section VI MAINTENANCE PROCEDURES

For maintenance procedures for electronic equipment used with these installation kits, refer to manuals TM 11-7440-251-10 and TM 11-7440-253-10-1.

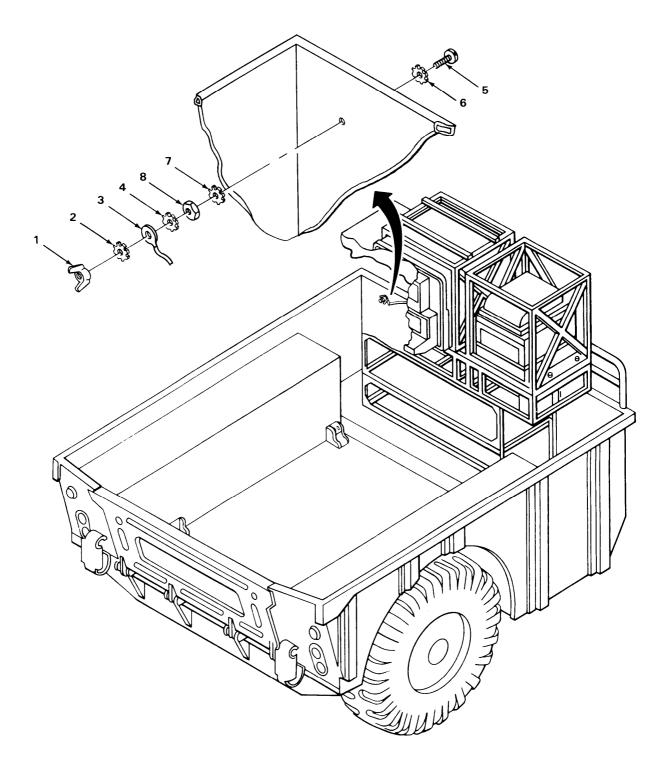
Section VII REMOVAL OF ELECTRONICS EQUIPMENT INSTALLATION KIT, MK-1819/GSG-10(V) AND POWER ACCESSORY KIT, MK-1821/GSG-10(V)

Subject	Para	Page
Removing 25-Inch Ground Strap from Front Wall	4-55	4-106
Removing 25-Inch Ground Strap from Power Distribution Box	4-56	4-108
Removing Radio Power Cables from Radios	4-57	4-110
Removing Radio and Power Distribution Box Power Cables from Vehicle Power	4-58	4-112
Removing Radio Mounting Bases	4-59	4-114
Removing Tacfire Components	4-60	4-116
Removing 4-Inch Ground Straps	4-61	4-118
Removing Electronic Line Printer Sliding Tray	4-62	4-120
	4-63	4-122
Removing Electronic Line Printer Rack	4-64	4-124
Removing Message Entry Group Rack	4-65	4-126
Removing Key Generator Rack	4-66	4-128
Removing Front Reinforcement Support	4-67	4-130
Removing Electronic Equipment Table	4-68	4-132
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Removing Submount Assembly	4-70	4-136
Removing Adapter Assemblies	4-70	+ 150
Removing Canvas Tie-Down Hooks from Front	4-71	4-138
antenna Mounting Brackets	4-72	4-140
Removing/Installing Antenna Cables	4-72	4-142
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Removing Front Antenna Mounting Brackets	4-78	4-152
Removing Rear Antenna Mounting Bracket	4-70 4-79	4-152
Removing Canvas Cable Bag	4-79 4-80	4-158
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Removing Fuel Can and Bracket	4-87 4-88	4-170 4-172
Removing Fuel Filler Nozzle and Bracket		
Removing Floor Base	4-89	4-174
Removing External Ground Rod Kit	4-90	4-176
Out of Vehicie Configuration	4-91	4-178

4-55. REMOVING 25-INCH GROUND STRAP FROM FRONT WALL.

This task covers:			
Removal			
INITIAL SETUP			
Tools		Personnel Required	
9/16-inch box wrench	One mechanic		
Flat-tip screwdriver Adjustable pliers	Equipment Condition		
Materials/Parts		All power off.	
None			
LOCATION	ITEM	ACTION REMARKS	
		WARNING	
		Make sure all power is off.	
Forward roadside corner of corner wall	Wingnut (1), IET lockwasher (2), ground strap (3), and	Using pliers, remove.	
	IET lockwasher (4)	NOTE	
	If brass s	screw needs replacement, see step 2.	
2.	Screws (5), IET lockwasher (6), IET lockwasher (7) and nut (8)	Using flat-tip screwdriver and 9/16-inch box wrench, remove.	
3.	Ground strap (3)	See paragraph 4-38 for installation.	

4-55. REMOVING 25-INCH GROUND STRAP FROM FRONT WALL. (CONT)



4-56. REMOVING 25-INCH GROUND STRAP FROM POWER DISTRIBUTION BOX.

25-inch ground

strap (5)

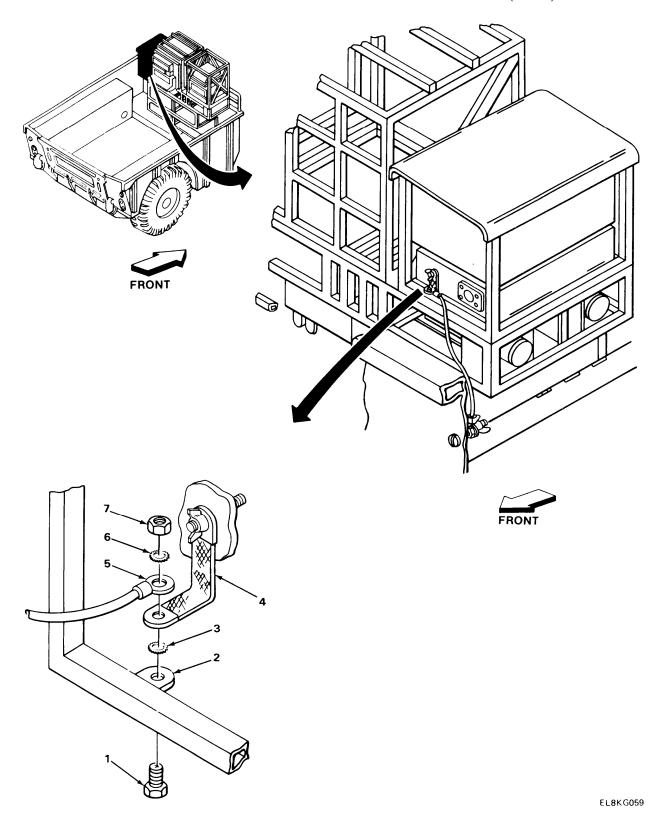
This task covers: Removal **INITIAL SETUP** Tools Personnel Required 9/16-inch box wrench (2 required) One mechanic Adjustable pliers **Equipment Condition** Materials/Parts All power off. None **ACTION LOCATION ITEM REMARKS** WARNING Make sure all power is off. 1. Rear of Key Using two 9/16-inch box wrenches, remove. Screw (1), tab generator rack (2), IET lockwasher (3), 6-inch ground strap (4), 25-inch ground strap (5), IET lockwasher (6) and nut (7)

Remove.

See paragraph 4-37 for installation.

2.

4-56. REMOVING 25-INCH GROUND STRAP FROM POWER DISTRIBUTION BOX. (CONT)



4-57. REMOVING RADIO POWER CABLES FROM RADIOS.

This task covers:			
Removal			
INITIAL SETUP			
Tools		Personnel Required	
None	One mechanic		
Materials/Parts		Equipment Condition	
None		All power off.	
LOCATION	ITEM	ACTION REMARKS	
		WARNING	
		Make sure all power is off.	
Underside rear of roadside MT-1029 radio mounting base	Cable, CX-13052 (1) and J21 (2)	Disconnect. To complete removal, see paragraph 4-58.	
2.	Cable, CX-4721 (3) and J22 (4)	Disconnect. For comsec use only.	
3.	Cable, CX-13050 (5) and J23 (6)	Disconnect.	
Underside rear of curbside MT-1029 radio mounting	Cable, CX-13050 (5) and J21 (7)	Disconnect.	
base 5.	Cable, CX-4721 (8) and J22 (9)	Disconnect. For comsec use only.	
6.	Cable, CX-13052 (10) and J23(11)	Disconnect.	
7. Underside rear of curbside MT-1898 radio mounting base	Cable, CX-13052 (10) and J21 (12)	Disconnect.	

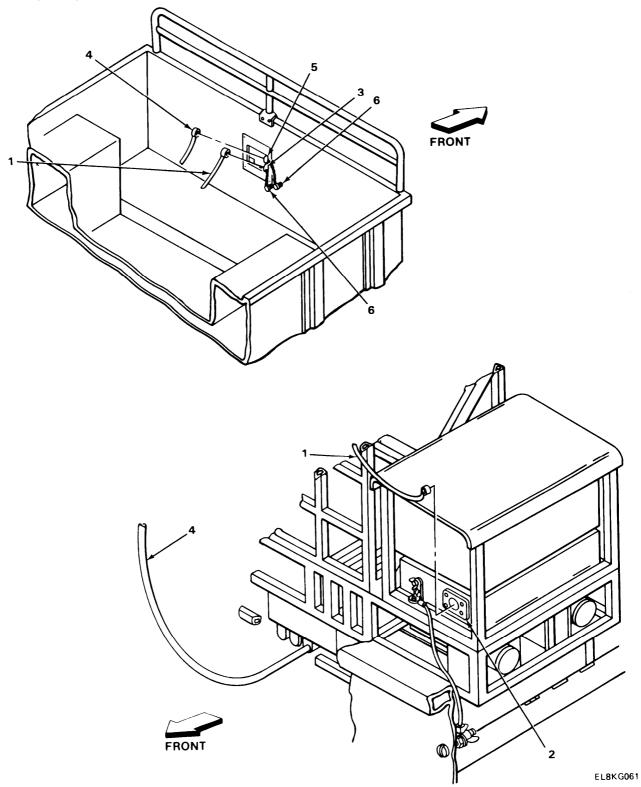
4-57. REMOVING RADIO POWER CABLES FROM RADIOS. (CONT)

LOCATION	ITEM	ACTION REMARKS
8. Underside rear of both MT-1029 and MT-1898 radio mounting bases	Cables, (1), (3), (5), (8) and (10)	See paragraph 4-34 for installation.
VEHICLE POWER 3	A VIEW	9 10 ELBKG060

4-58. REMOVING RADIO AND POWER DISTRIBUTION BOX POWER CABLES FROM VEHICLE POWER.

This task covers:				
Removal				
INITIAL SETUP				
Tools		Personnel Required		
None		One mechanic		
Materials/Parts		Equipment Condition		
None		All power off.		
LOCATION	ITEM	ACTION REMARKS		
		WARNING		
		Make sure all power is off.		
Rear of power distribution box	Cable, SC-D-690641 (1) and receptacle (2)	Disconnect.		
Carrier forward wall power receptacle	Cable, SC-D-690641 (1) and lower plug (3)	Disconnect.		
3.	Cable, CX-13052 (4) and upper plug (5)	Disconnect. To disconnect opposite end of cable, see paragraph 4-57 for removal.		
4.	Protective caps (6)	Install.		
5.	Cable, SC-D-690641 (1) and cable, CX-13052 (4)	See paragraph 4-37 for installation.		

4-58. REMOVING RADIO AND POWER DISTRIBUTION BOX POWER CABLES FROM VEHICLE POWER. (CONT) $\,$



4-59. REMOVING RADIO MOUNTING BASES.

This task covers:		
Removal		
INITIAL SETUP		
Tools		Personnel Required
1/2-inch box wrench		One mechanic
Materials/Parts		Equipment Condition
None		Radio power cables removed, see paragraph 4-57.
LOCATION	ITEM	ACTION REMARKS
		NOTE
	There are three of all three mou	radio mounting bases. Steps given are typical unting bases.
Roadside position of radio mount	Radio mounting box (1), nut (2) and ET lock- washer (3)	Using 1/2-inch box wrench, remove. There are five nuts. Step 1 is typical for all five nuts.
2.	Nuts (4)	Do step 1 again.

2.	Nuts (4)
3.	Radio mounting

Remove.

base (1)
4. Curbside position Radio mounting

Do steps 1, 2 and 3 again.

5. Curbside corner position of radio mount

of radio mount

Radio mounting base (6)

base (5)

Do steps 1, 2 and 3 again.

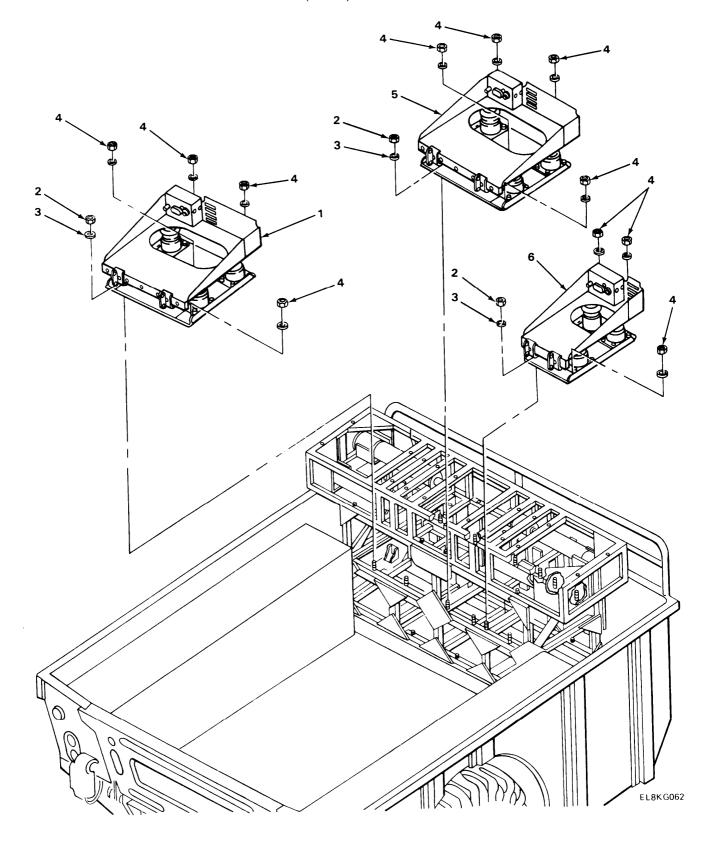
There are only four nuts used with this radio mount.

Radio mounting bases (1), (5) and (6)

See paragraph 4-35 for installation

6.

4-59. REMOVING RADIO MOUNTING BASES. (CONT)



4-60. REMOVING TACFIRE COMPONENTS.

This task covers:

Removal

INITIAL SETUP

Tools Personnel Required

Flat-tip screwdriver Cross-tip screwdriver

Two mechanics

Materials/Parts

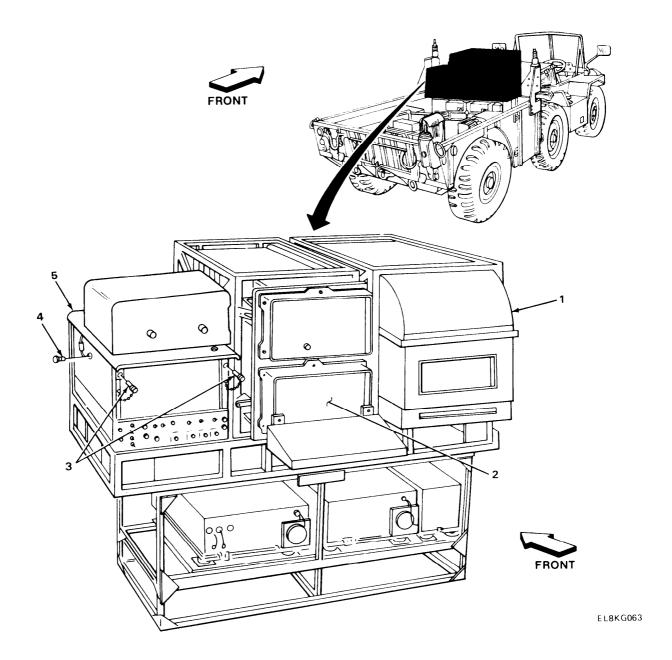
Equipment Condition

All power off.

None

LOCATION	ITEM	ACTION REMARKS	
Electronic line printer rack	Electronic line printer (1)	Remove.	
Message entry group rack	Message entry group (2)	Remove.	
Key generator rack	Screws (3)	Using flat-tip screwdriver, remove. These are captive screws. Leave hanging on chains.	
4.	Screw (4)	Using cross-tip screwdriver, remove. Put screw back in storage box for storage.	
5.	Key generator tray (5)	Lift front of tray up and pull tray out.	
		NOTE	
	For emer	gency removal do steps 3 and 5 only.	
		For completion of electronic equipment removal, refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.	
6. Tacfire racks	Tacfire components (1), (2), (5)	See paragraph 4-36 for installation.	

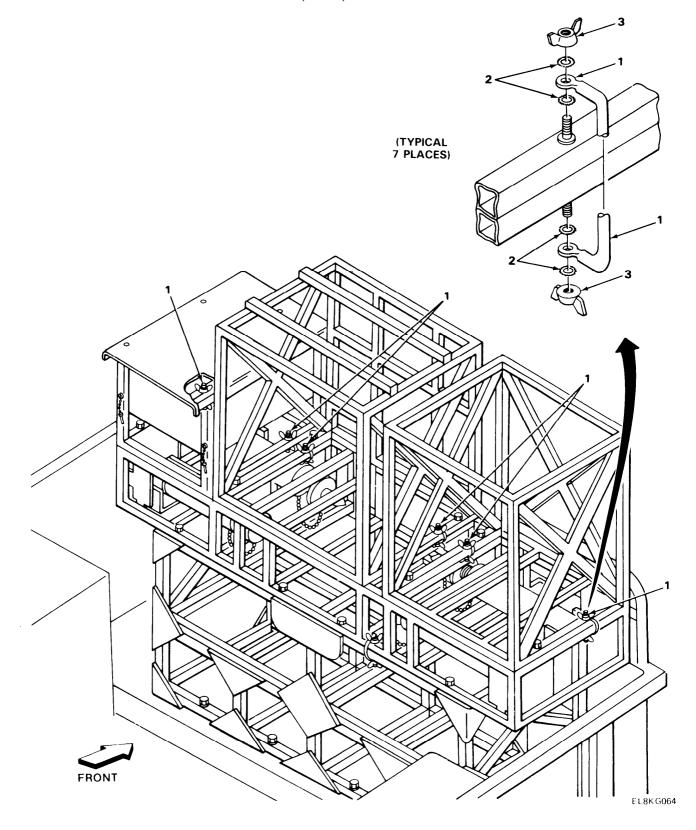
4-60. REMOVING TACFIRE COMPONENTS. (CONT)



4-61. REMOVING 4-INCH GROUND STRAPS.

This task covers:			
Removal			
INITIAL SETUP			
Tools		Personnel Required	
Adjustable pliers	One mechanic		
Materials/Parts	Equipment Condition		
None		Tacfire racks installed and ground straps in place.	
LOCATION	ITEM	ACTION REMARKS	
Upper studs, electronic rack and electronic equipment table	Ground straps (1), IET lockwasher (2) and wingnut (3)	Using pliers, remove. There are seven ground straps. Step 1 is typical for all seven ground straps.	
2.	Ground strap (1)	Do step 1 again.	
Lower studs, electronic equip- ment rack and electronic equipment table	Ground strap (1)	Do steps 1 and 2 again.	
4.	Ground strap (1)	See paragraph 4-33 for installation.	

4-61. REMOVING 4-INCH GROUND STRAPS. (CONT)



4-62. REMOVING ELECTRONIC LINE PRINTER SLIDING TRAY.

This task covers:

Removal

INITIAL SETUP

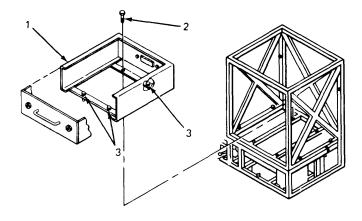
Tools Personnel Required

9/16-inch box wrench One mechanic

Materials/Parts Equipment Condition

None Tacfire components removed, see paragraph 4-60.

LOCATION	ITEM	ACTION REMARKS
1. Inside ELP rack	ELP tray (1) and screw (2)	Slide tray out. Using 9/16-inch box wrench remove. There are four screws. Step 1 is typical for all four screws.
2.	Screws (3)	Do step 1 again.
3.	ELP tray (1)	Remove.
4.	ELP tray (1)	See paragraph 4-32 for installation.

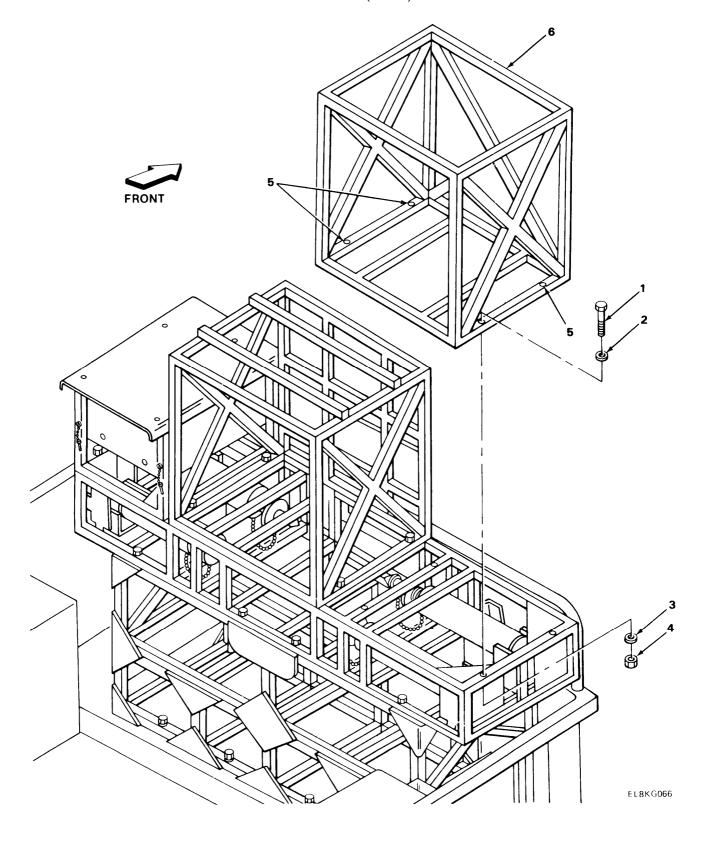


4-63. REMOVING ELECTRONIC LINE PRINTER RACK.

This task covers:			
Removal			
INITIAL SETUP			
Tools		Personnel Required	
1/2-inch box wrench (2	required)	One mechanic	
Materials/Parts		Equipment Condition	
None		Electronic line printer sliding tray removed, see paragraph 4-62.	
LOCATION	ITEM	ACTION REMARKS	
Curbside top of electronic equipment table	Screw (1), flat washer (2), flat washer (3) and nut (4)	Using two 1/2-inch box wrenches, remove. There are four screws. Step 1 is typical for all four screws.	
2.	Screws (5)	Do step 1 again.	
3.	ELP rack (6)	Remove. See paragraph 4-31 for	

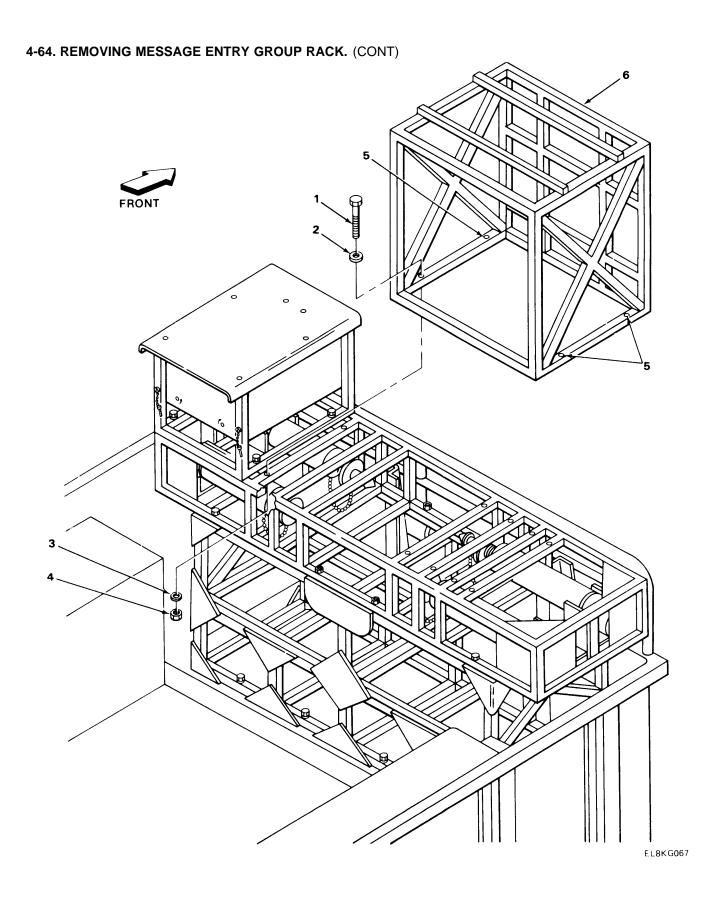
installation.

4-63. REMOVING ELECTRONIC LINE PRINTER RACK. (CONT)



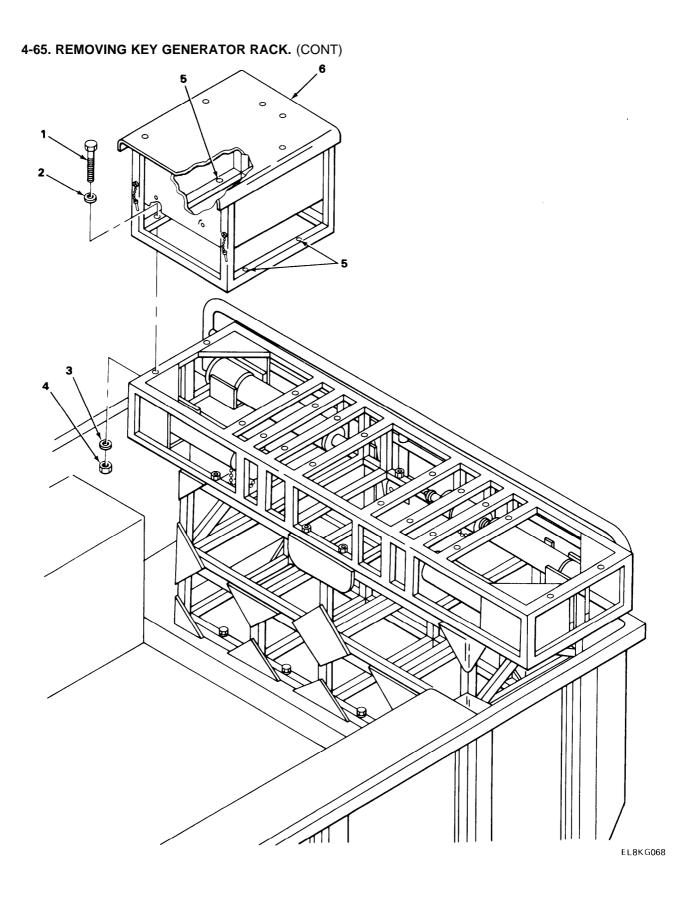
4-64. REMOVING MESSAGE ENTRY GROUP RACK.

This task covers:			
Removal			
INITIA	L SETUP		
Tools			Personnel Required
1/2-inch box wrench (2 required)			One mechanic
Materials/Parts			Equipment Condition
None			Tacfire components removed, see paragraph 4-60.
	LOCATION	ITEM	ACTION REMARKS
1.	Center position top of electronic equipment table	Screw (1), flat washer (2), flat washer (3) and nut (4)	Using two 1/2-inch box wrenches, remove. There are four screws. Step 1 is typical for all four screws.
2.		Screws (5)	Do step 1 again.
3.		MEG rack (6)	Remove. See paragraph 4-30 for installation.



4-65. REMOVING KEY GENERATOR RACK.

This task covers:		
Removal		
INITIAL SETUP		
Tools		Personnel Required
1/2-inch box wrench (2	required)	One mechanic
Materials/Parts		Equipment Condition
None		Tacfire components removed, see paragraph 4-60.
LOCATION	ITEM	ACTION REMARKS
Roadside top of electronic equipment table	Screw (1), flat washer (2), flat washer (3) and nut (4)	Using two 1/2-inch box wrenches, remove. There are four screws. Step 1 is typical for all four screws.
2.	Screws (5)	Do step 1 again.
3.	KG rack (6)	Remove. See paragraph 4-30 for installation.



4-66. REMOVING FRONT REINFORCEMENT SUPPORT.

This task covers:

Removal

INITIAL SETUP

Tools Personnel Required

7/16-inch box wrench (2 required)
1/2-inch box wrench (2 required)

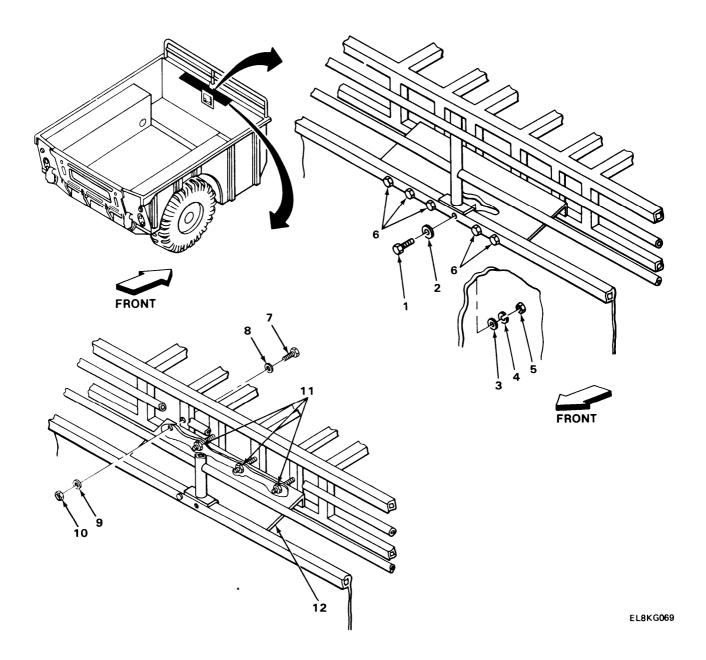
Materials/Parts

None Equipment Condition

Tacfire racks removed. (See para 4-63, 4-64 and 4-65.)

LOCATION	ITEM	ACTION REMARKS
1. Front carrier wall	Screw (1), flat washer (2), flat washer (3), lock- washer (4) and nut (5)	Using two 7/16-inch box wrenches, remove. There are six screws. Step 1 is typical for all six screws.
2.	Screws (6)	Do step 1 again.
Front of electronic equipment table	Screw (7), flat washer (8), flat washer (9) and nut (10)	Using two 1/2-inch box wrenches, remove. There are four screws. Step 3 is typical for all four screws.
4.	Screws (11)	Do step 3 again.
5.	Front reinforce- ment support (12)	Remove. See paragraph 4-28 for installation.

4-66. REMOVING FRONT REINFORCEMENT SUPPORT. (CONT)

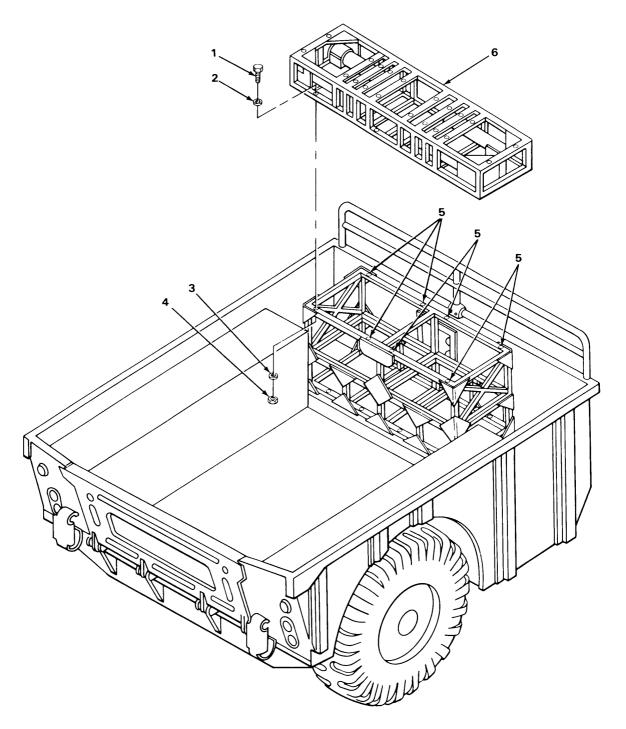


4-67. REMOVING ELECTRONIC EQUIPMENT TABLE.

This task covers: Removal **INITIAL SETUP** Tools **Equipment Condition** 1/2-inch box wrench (2 required) Tacfire components removed, see paragraph 4-60. Materials/Parts ELP rack removed, see paragraph 4-63. MEG rack removed, see paragraph 4-64. None KG rack removed, see paragraph 4-65. Front reinforcement support removed, Personnel Required see paragraph 4-66. Two mechanics

LOCATION	ITEM	ACTION REMARKS
Top of radio mount	Screw (1), flat washer (2), flat washer (3) and nut (4)	Using two 1/2-inch box wrenches, remove. There are eight screws. Step 1 is typical for all eight screws.
2.	Screws (5)	Do step 1 again. WARNING
	A helper will be equipment table.	needed to lift and remove electronic
3.	Electronic equip- ment table (6)	Remove. See paragraph 4-27 for installation.

4-67. REMOVING ELECTRONIC EQUIPMENT TABLE. (CONT)



4-68. REMOVING RADIO MOUNT.

This task covers:

Removal

INITIAL SETUP

Tools Personnel Required

1/2-inch box end wrench Two mechanics

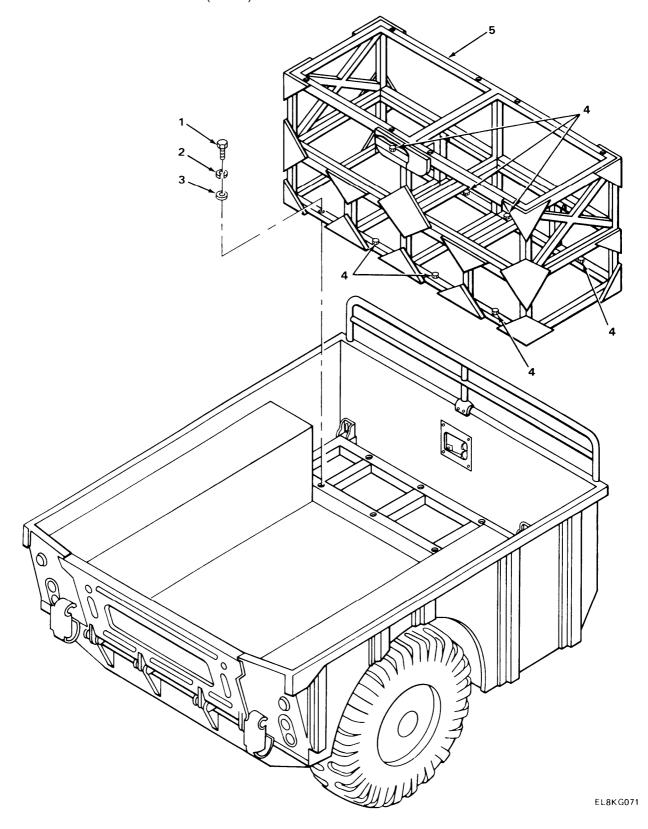
Materials/Parts Equipment Condition

None Electronic equipment table removed,

see paragraph 4-67.

LOCATION	ITEM	ACTION REMARKS	
1. Top of Submount	Screw (1), lock- washer (2) and flatwasher (3)	Using 1/2-inch box wrench, remove. There are eight screws. Step 1 is typical for all eight screws.	
2.	Screws (4)	Do step 1 again. WARNING	
	A helper wil	I be needed to lift and remove radio mount.	
3.	Radio mount (5)	Remove. See paragraph 4-24 for installation.	

4-68. REMOVING RADIO MOUNT. (CONT)



4-69. REMOVING SUBMOUNT ASSEMBLY.

This task covers:

Removal

INITIAL SETUP

Tools Personnel Required

1/2-inch box wrench (2 required) Two mechanics

Materials/Parts Equipment Condition

None Radio mount removed, see

paragraph 4-68.

LOCATION ITEM REMARKS

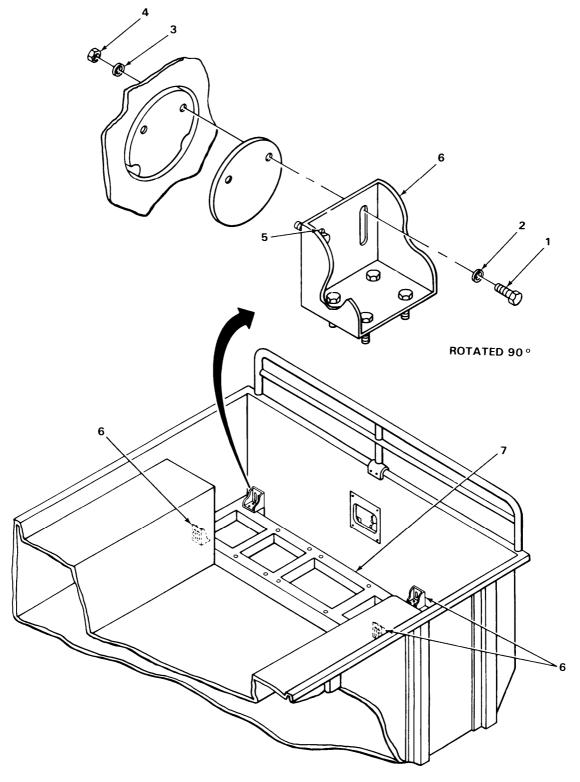
NOTE

A helper will be needed outside carrier.

Inside carrier, forward section	Screw (1), flat washer (2), flat washer (3) and nut (4)	Using two 1/2-inch box wrenches, remove. There are two screws. Step 1 is typical for both screws.
2.	Screws (5)	Do step 1 again.
3.	Brackets (6)	Do steps 1 and 2 again. There are four brackets.
		WARNING
	A helper will b	be needed to lift and remove submount.
4.	Submount (7)	Remove.

See paragraph 4-23 for installation.

4-69. REMOVING SUBMOUNT ASSEMBLY. (CONT)



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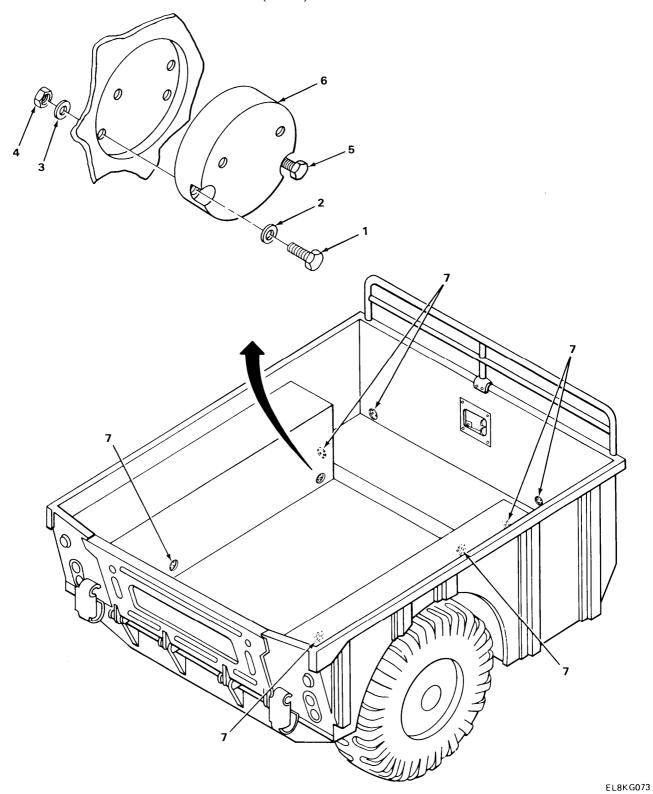
4-70. REMOVING ADAPTER ASSEMBLIES.

This task covers:			
Removal			
INITIAL SETUP			
Tools		Personnel Required	
1/2-inch box wrench (2 required)		Two mechanics	
Materials/Parts		Equipment Condition	
None		Submount assembly removed, see paragraph 4-69.	
LOCATION	ITEM	ACTION REMARKS	
		NOTE	

A helper will be needed outside carrier.

1. Carrier walls	Screw (1) flat washer (2), flat washer (3) and nut (4)	Using two 1/2-inch box wrenches, remove. There are two screws. Step 1 is typical for both screws.
2.	Screw (5)	Do step 1 again.
3.	Adapter (6)	Remove. There are eight adapters. Step 3 is typical for all eight adapters.
4.	Adapter (7)	Do steps 1, 2 and 3 again. See paragraph 4-22 for installation.

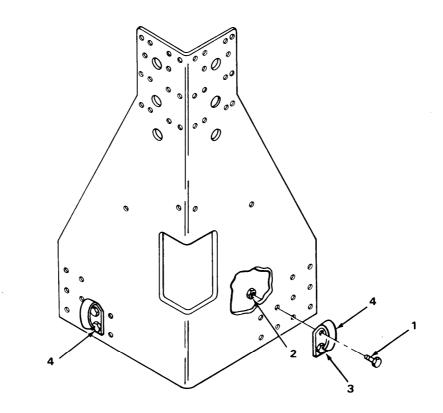
4-70. REMOVING ADAPTER ASSEMBLIES. (CONT)



4-71. REMOVING CANVAS TIE-DOWN HOOKS FROM FRONT ANTENNA MOUNTING BRACKETS.

This ta	ask covers:		
Ren	noval		
INITIA	L SETUP		
Too	ls		Personnel Required
-	/2-inch box wrench		One mechanic
	(2 required)		Equipment Condition
	terials/Parts Ione		Tie-down hooks in place.
	LOCATION	ITEM	ACTION REMARKS
1.	Curbside antenna mounting bracket	Screw (1) and nut (2)	Using two 1/2-inch box wrenches, remove. There are two screws. Step 1 is typical for both screws.
2.		Screw (3)	Do step 1 again.
3.		Tie-down hook (4)	Remove. There are two tie-down hooks on each antenna mounting bracket. Steps 1, 2 and 3 are typical for both tie-down hooks.
4.	Roadside antenna mounting bracket	Tie-down hook (4)	Do steps 1, 2 and 3 again. See paragraph 4-14 for installation.

4-71. REMOVING CANVAS TIE-DOWN HOOKS FROM FRONT ANTENNA MOUNTING BRACKETS. (CONT)



4-72. REMOVING/INSTALLING ANTENNA CABLING.

This task covers:		
Removal Installation		
INITIAL SETUP		
Tools		Personnel Required
Flat-tip screwdriver		One mechanic
Materials/Parts		Equipment Condition
Canvas bag (3 required)		Antenna cabling disconnected from radios, see SB 11-131 for removal.
LOCATION	ITEM	ACTION REMARKS
REMOVAL		
Front roadside antenna mounting base	Screw (1) and cable clamp (2)	Using flat-tip screwdriver, remove. Remove all clamps and screws.
2.	RF cable (3) and control cable (4)	Remove. Store in canvas bag.
Front curbside antenna mounting base	Antenna (5)	Do steps 1 and 2 again.
Rear curbside antenna mounting base	Antenna (6)	Do steps 1 and 2 again.
INSTALLATION		
Front roadside antenna mounting base	RF cable (3) and control cable (4)	Route.
2.	Screw (1), cable clamp (2), RF cable (3) and control cable (4)	Using flat-tip screwdriver, install. Use existing holes for cable clamps.
3. Front curbside an-	Antenna (5)	Do steps 1 and 2 again.

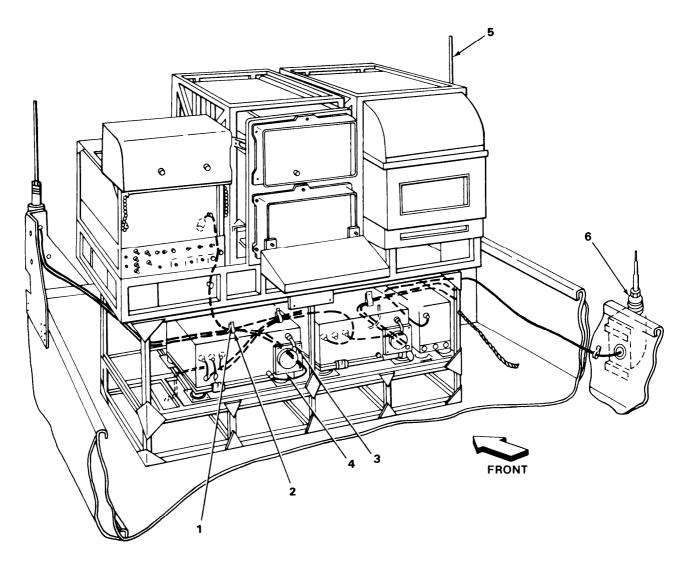
tenna mounting base

4-72. REMOVING/INSTALLING ANTENNA CABLING. (CONT)

LOCATION	ITEM	ACTION REMARKS	
Rear curbside antenna mounting base	Antenna (6)	Do steps 1 and 2 again.	

NOTE

See SB 11-131 for cable to radio hook-up.

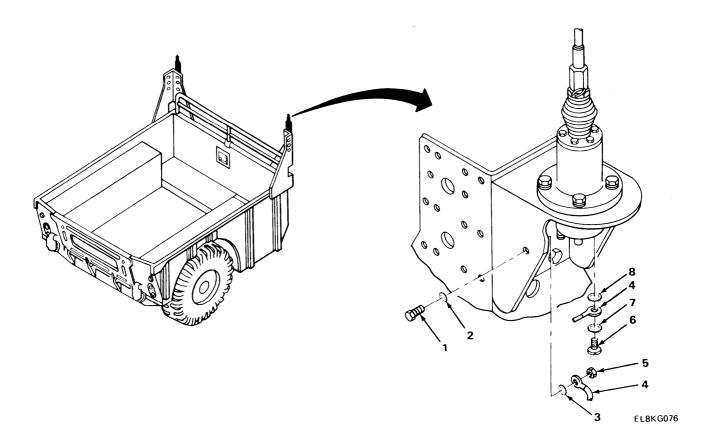


4-73. REMOVING ANTENNA GROUND STRAPS.

This task covers: Removal **INITIAL SETUP** Tools Personnel Required One mechanic 7/16-inch box wrench (2 required) Flat-tip screwdriver **Equipment Condition** Materials/Parts Antenna cabling removed, see paragraph 4-72. None **ACTION** ITEM **REMARKS LOCATION** Using two 7/16-inch box wrenches, remove. 1. Antenna supports Screw (1), IET lockwasher (2), IET lockwasher (3), ground strap (4) and nut (5) 2. Screw (6), IET Using flat-tip screwdriver, remove. lockwasher (7), ground strap (4) and IET lockwasher (8) Ground strap (4) See paragraph 4-18 for installation. 3. NOTE

There are three vehicle antennas. Steps 1, 2 and 3 are typical for all three antennas.

4-73. REMOVING ANTENNA GROUND STRAPS. (CONT)



4-74. REMOVING ANTENNA MASTS.

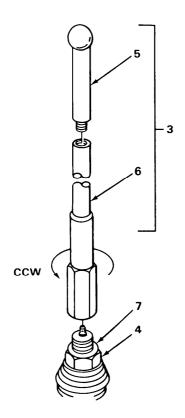
This task covers: Removal **INITIAL SETUP** Tools Personnel Required 1/8-inch hex wrench One mechanic Adjustable crescent wrench **Equipment Condition** Materials/Parts Antenna ground straps removed, None see paragraph 4-73. **ACTION** LOCATION ITFM **REMARKS**

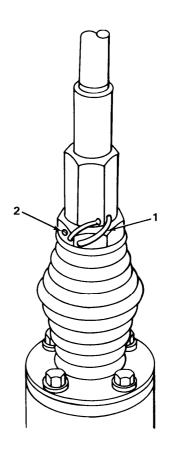
LOCATION	I I LIVI	KEMAKKO
1. Antenna supports	Safety wire (1)	Remove.
2.	Setscrew (2)	Using 1/8-inch hex wrench, loosen.
3.	Antenna mast (3) and mounting base (4)	Using adjustable wrench, remove.
4.	Upper antenna mast (5) and lower antenna mast (6)	Peel off electrical tape. Turning counter- clockwise, remove.
5.	O-ring (7)	Remove.
6.	Antenna mast (3)	See paragraph 4-19 for installation.

NOTE

There are three vehicle antennas. Steps 1 through 6 are typical for all three antennas.

4-74. REMOVING ANTENNA MASTS. (CONT)





4-75. REMOVING ANTENNA MOUNTING BASES.

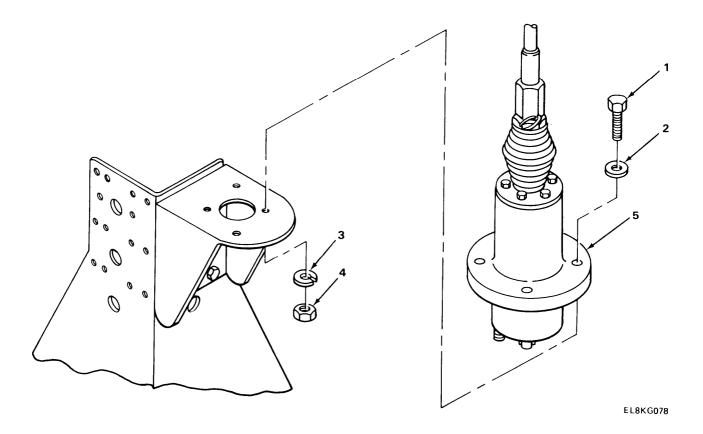
This task covers:			
Removal			
INITIAL SETUP			
Tools		Personnel Required	
9/16-inch box wrench (2 required)		One mechanic	
Materials/Parts		Equipment Condition	
None		Antenna masts removed, see paragraph 4-74.	
LOCATION	ITEM	ACTION REMARKS	

NOTE

There are two VRC antenna mounting bases, and one GR antenna mounting base. The steps given are typical for both types.

1. Antenna supports	Screw (1), flat washer (2), lock- washer (3) and nut (4)	Using two 9/16-inch box wrenches, remove. There are four screws. Step 1 is typical for all four screws.
2.	Screws (1)	Do step 1 again.
3.	Antenna mounting base (5)	Remove.
4.	Antenna mounting base (5)	See paragraph 4-17 for installation.

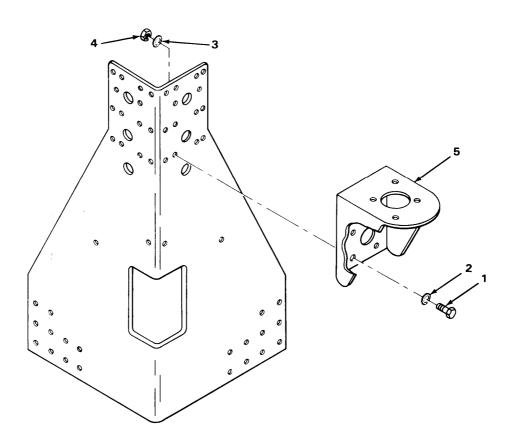
4-75. REMOVING ANTENNA MOUNTING BASES.



4-76. REMOVING FRONT ANTENNA SUPPORTS.

This task covers:			
Removal			
INITIAL SETUP			
Tools		Personnel Required	
7/16-inch box wrench (2	required)	One mechanic	
Materials/Parts		Equipment Condition	
None		Antenna mounting bases removed, see paragraph 4-75.	
LOCATION	ITEM	ACTION REMARKS	
Front curbside antenna mounting bracket	Screw (1), IET lockwasher (2), IET lockwasher (3) and nut (4)	Using two 7/16-inch box wrenches, remove. There are six screws. Step 1 is typical for all six screws.	
2.	Screws (1)	Do step 1 again.	
3.	Roadside antenna support (5)	Remove. Do steps 1, 2 and 3 for curbside support assembly.	
Front roadside antenna mounting bracket	Curbside antenna support (5)	Do steps 1, 2 and 3 again.	
Front curbside and roadside antenna mounting brackets	Antenna Supports (5)	See paragraph 4-16 for installation.	

4-76. REMOVING FRONT ANTENNA SUPPORTS. (CONT)



4-77. REMOVING FRONT ANTENNA MOUNTING BRACKETS.

This task covers:			
Removal			
INITIAL SETUP			
Tools	Tools Personnel Required		
7/16-inch box wrench (2 required)		Two mechanics	
Materials/Parts	terials/Parts Equipment Condition		
None		Antenna support assemblies removed, see paragraph 4-76.	
LOCATION	ITEM	ACTION REMARKS	
		NOTE	
		A helper will be needed outside carrier.	
Outside carrier forward curbside wall	Screw (1), flat washer (2), flat washer (3) and nut (4)	Using two 7/16-inch box wrenches, remove. There are 16 screws. Step 1 is typical for all 16 screws.	
2.	Screws (5)	Do step 1 again.	

4. Outside carrier forward roadside wall

3.

5. Outside carrier forward curbside and roadside wall Antenna brackets (6)

Antenna

Antenna

bracket (6)

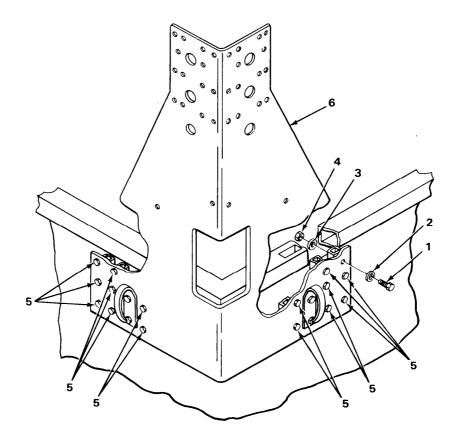
bracket (6)

See paragraph 4-15 for installation.

Do steps 1, 2 and 3 again.

Remove.

4-77. REMOVING FRONT ANTENNA MOUNTING BRACKETS. (CONT)



4-78. REMOVING REAR ANTENNA MOUNTING BRACKET.

This task covers:

Removal

INITIAL SETUP

Tools

3/8-inch drive, 6 inch long extension bar 3/8-inch drive socket wrench 9/16-inch socket

9/16-inch box wrench Cross-tip screwdriver

Materials/Parts

None

Personnel Required

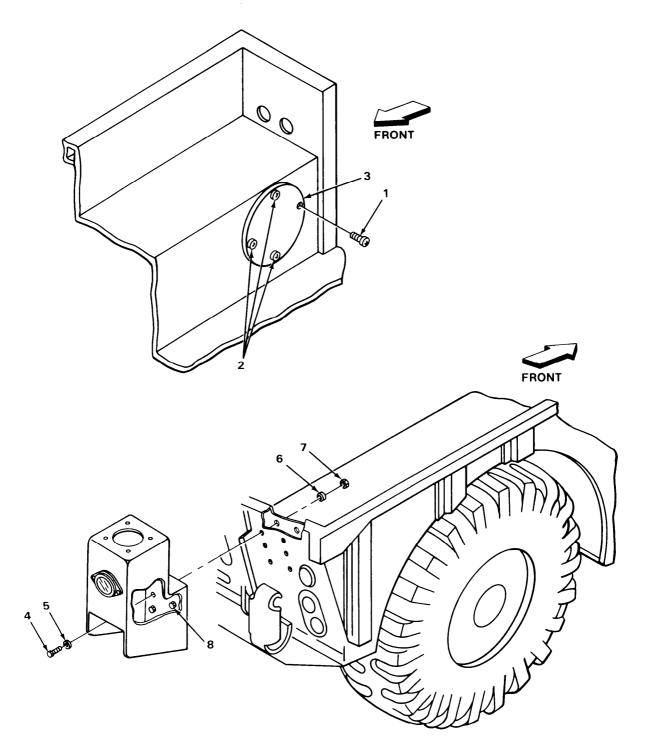
Two mechanics

Equipment Condition

Antenna mounting base removed, see paragraph 4-77.

LOCATION	ITEM	ACTION REMARKS
Below rear curbside carrier seat	Screw (1)	Using cross-tip screwdriver, remove. There are four screws. Step 1 is typical for all four screws.
2.	Screws (2)	Do step 1 again.
3.	Plate (3)	Remove. Save.
Above rear curbside carrier seat	Screw (4), flat washer (5), flat washer (6) and nut (7)	Using ratchet wrench, extension, 9/16-inch socket and 9/16-inch box wrench, remove. There are two screws. Step 4 is typical for both screws.
5.	Screw (8)	Do step 4 again.

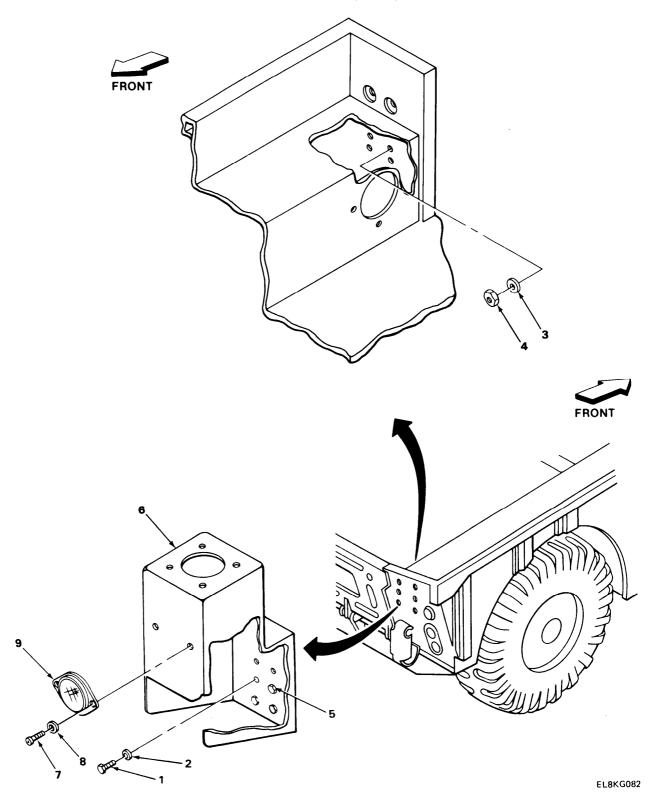
4-78. REMOVING REAR ANTENNA MOUNTING BRACKET. (CONT)



4-78. REMOVING REAR ANTENNA MOUNTING BRACKET. (CONT)

		ACTION
LOCATION	ITEM	ACTION REMARKS
REMOVAL (CONT)		
Rear curbside of carrier	Screw (1), flat washer (2), fiat washer (3) and nut (4)	Using two 9/16-inch box wrenches, remove. There are four screws. Step 6 is typical for all four screws.
7.	Screws (5)	Do step 6 again.
8.	Antenna bracket (6)	Remove.
On rear antenna bracket	Screw (7) and flat washer (8)	Using cross-tip screwdriver, remove. There are two screws. Step 9 is typical for both screws.
10.	Screw (7)	Do step 9 again.
11.	Reflector (9)	Remove. Save.
12. Rear curbside of carrier	Antenna bracket (6)	See paragraph 4-20 for installation.

4-78. REMOVING REAR ANTENNA MOUNTING BRACKET. (CONT)



4-79. REMOVING CANVAS CABLE BAG.

This task covers:

Removal

INITIAL SETUP

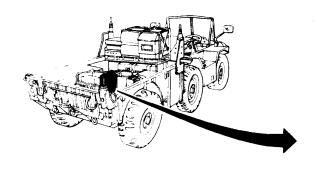
Tools Personnel

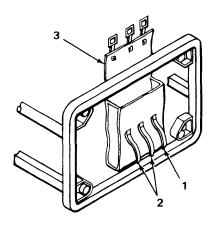
None One mechanic

Materials/Parts Equipment Condition

None Canvas cable bag in place.

LOCATION	ITEM	ACTION REMARKS
Curbside generator rail	Canvas strap (1)	Loosen. There are three straps. Step 1 is typical for all three straps.
2.	Canvas straps (2)	Do step 1 again.
3.	Canvas cable bag (3)	Remove.
4.	Canvas cable bag (3)	See paragraph 4-49 for installation.





4-80. REMOVING GENERATOR.

This	task	covers:

Removal

INITIAL SETUP

Tools Personnel Required

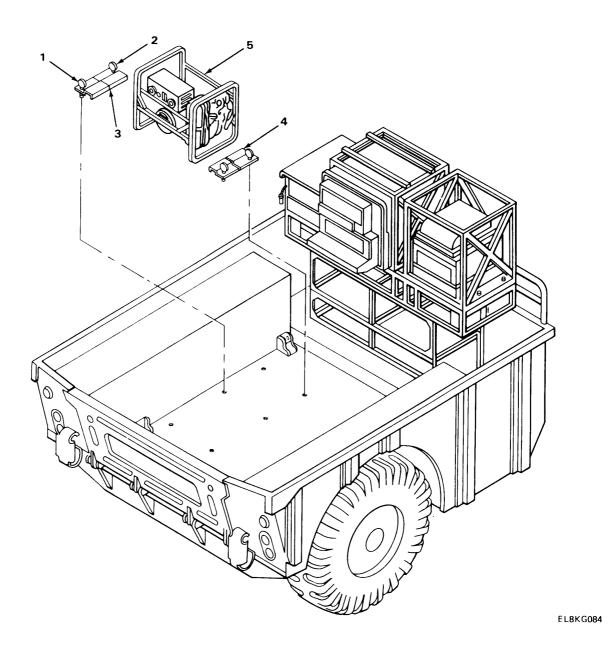
Adjustable pliers Two mechanics

Materials/Parts Equipment Condition

None Canvas cable bag removed, see paragraph 4-79.

LOCATION	ITEM	ACTION REMARKS
Generator roadside rail	Wingnut (1)	Using pliers, remove. There are two wingnuts per mounting plate. Step 1 is typical for both wingnuts.
2.	Wingnut (2)	Do step 1 again.
3.	Mounting strip (3)	Remove. There are two mounting strips. Steps 1, 2 and 3 are typical for both mounting strips.
Generator curbside rail	Mounting strip (4)	Do steps 1, 2 and 3 again.
5. Carrier floor	Generator (5)	Remove. NOTE A helper will be needed to lift and remove generator;
6.	Generator (5)	See paragraph 4-44 for installation.

4-80. REMOVING GENERATOR. (CONT)



4-81. REMOVING FIRE EXTINGUISHER.

This task covers:

Removal

INITIAL SETUP

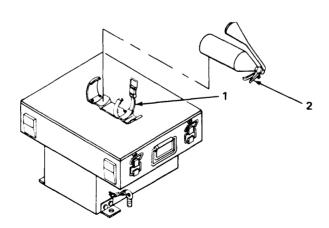
Tools Personnel Required

None One mechanic

Materials/Parts Equipment Condition

None Fire extinguisher in place.

	LOCATION	ITEM	ACTION REMARKS
	Top of battery box	Strap (1)	Loosen.
2.		Fire extinguisher (2)	Remove.
3.		Fire extinguisher (2)	See paragraph 4-48 for installation. Place fire extinguisher in original carton for storage.



4-82. REMOVING FIRE EXTINGUISHER MOUNTING BRACKET.

This task covers:

Removal

INITIAL SETUP

Tools Personnel Required

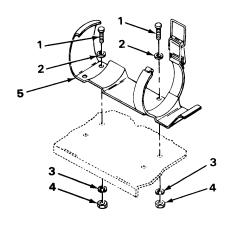
7/16-inch box wrench One mechanic (2 required)

Materials/Parts

Fire extinguisher removed, see Packing carton paragraph 4-81.

Equipment Condition

LOCATION	ITEM	ACTION REMARKS
1. Battery box cover	Screw (1), flat washer (2), lock- washer (3) and nut (4)	Using two 7/16-inch box wrenches, remove. There are four screws.
2.	Screws (1)	Do step 1 again.
3.	Fire extinguisher bracket (5)	Remove.
4.	Fire extinguisher bracket (5)	See paragraph 4-47 for installation. Place bracket and hardware in original carton for storage.



4-83. REMOVING/INSTALLING BATTERY HOLDDOWN.

This task covers:

- 1. Removal
- 2. Installation

INITIAL SETUP

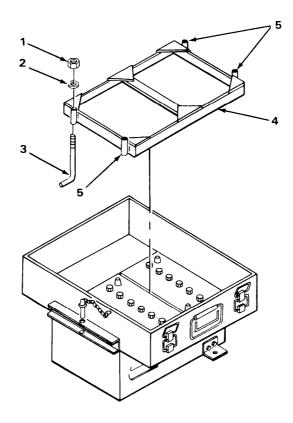
Tools Personnel Required

Adjustable pliers One mechanic

Materials/Parts Equipment Condition

None		Battery cables disconnected.
LOCATION	ITEM	ACTION REMARKS
REMOVAL		
1. Top of battery box	Nut (1), flat washer (2), and J-bolt (3)	Using pliers, remove. There are four J-bolts. Step 1 is typical for all four J-bolts.
2.	J-bolts (3)	Do step 1 again.
3.	Battery hold- down (4)	Remove Place hardware in battery box for storage.
INSTALLATION		
1. Top of battery box	J-bolt (3),	Using pliers, install.
	battery holddown (4), flat washer (2) and nut (1)	Hook J-bolt through loop in battery box and slide on battery holddown. There are four J-bolts. Step 1 is typical for all four J-bolts.
2.	J-bolt holes (5)	Do step 1 again.

4-83. REMOVING/INSTALLING BATTERY HOLDDOWN. (CONT)



4-84. REMOVING BATTERIES.

This task covers:

Removal

INITIAL SETUP

Tools Personnel Required

Adjustable pliers One mechanic

Materials/Parts Equipment Condition

None Batteries and holddown in place.

LOCATION ITEM REMARKS

WARNING

Before disconnecting battery cables, be sure all circuit breakers are in the OFF position.

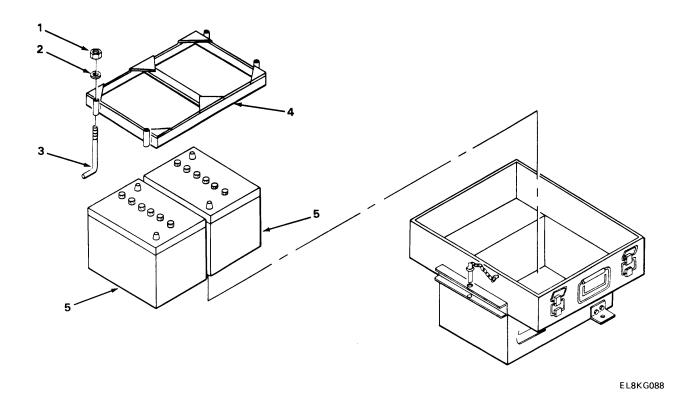
When removing batteries, work in a well ventilated area, use proper eye protection and wear rubber gloves. Should you come in contact with battery acid, be sure to wash affected area with cool water, then seek immediate medical aid.

NOTE

Remove battery box cover by unfastening four retaining clips.

1. Battery box	Nut (1), flat washer (2) and J-bolt (3)	Using pliers, remove. There are four J-bolts. Step 1 is typical for all four J-bolts.
2.	J-bolts (3)	Do step 1 again.
3.	Battery hold- down (4)	Remove.
4.	Batteries (5)	Remove.
5.	Batteries (5)	See paragraph 4-46 for installation.

4-84. REMOVING BATTERIES. (CONT)



4-85. REMOVING BATTERY BOX.

Removal

INITIAL SETUP

Tools Personnel Required

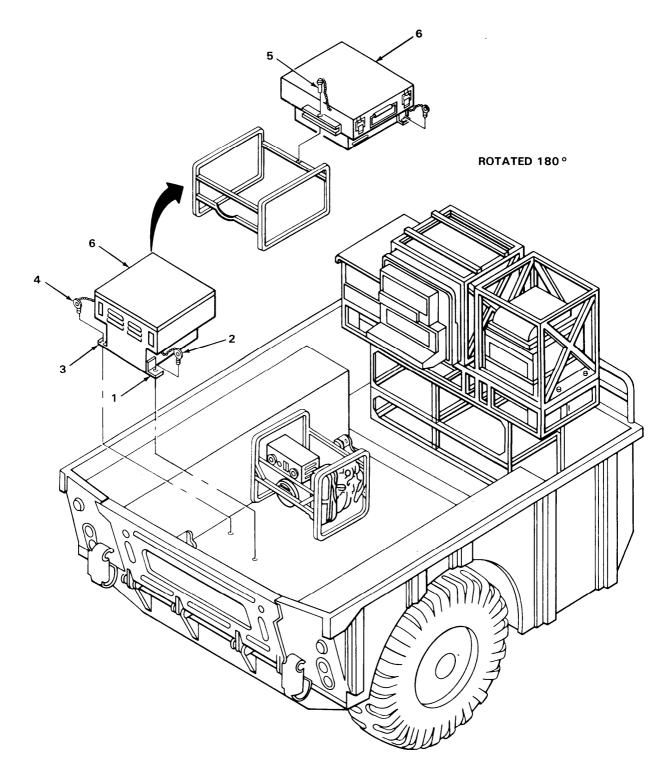
Adjustable pliers One mechanic

Materials/Parts Equipment Condition

None Batteries removed, see paragraph 4-84.

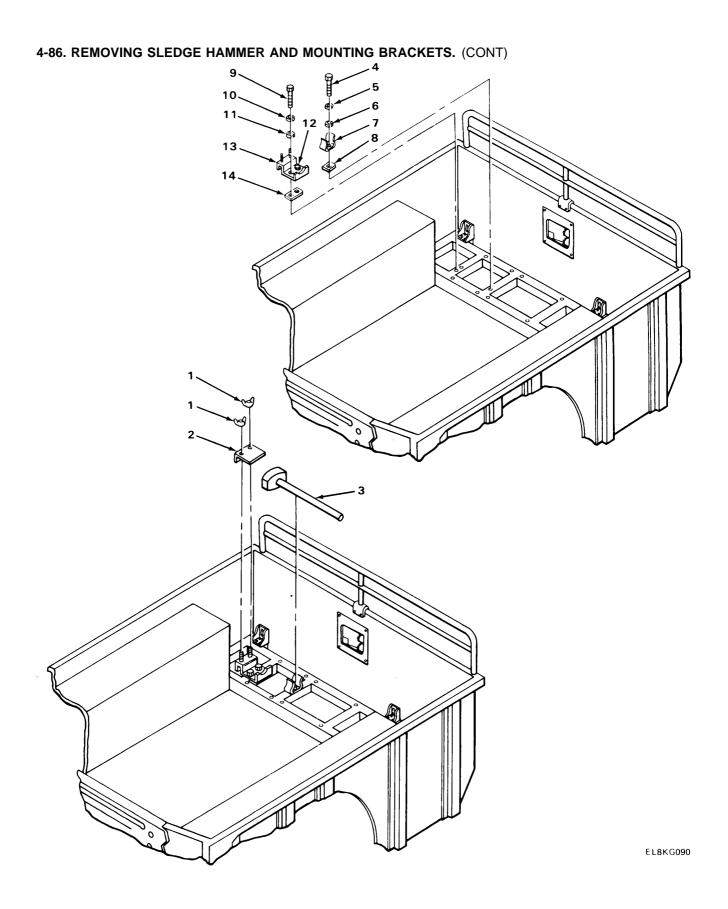
LOCATION	ITEM	ACTION REMARKS	
Rear roadside of carrier floor base	Mounting tab (1) and wingnut (2)	Using pliers, remove.	
2.	Mounting tab (3) and wingnut (4)	Using pliers, remove.	
3.	Quick release pin (5)	Remove.	
4.	Battery box (6)	Remove.	
5.	Battery box (6)	See paragraph 4-45 for installation.	

4-85. REMOVING BATTERY BOX. (CONT)



4-86. REMOVING SLEDGE HAMMER AND MOUNTING BRACKETS.

This took sovere:		
This task covers:		
INITIAL SETUP		
Tools		Personnel Required
7/16-inch box wrench		One mechanic
Materials/Parts		Equipment Condition
None		Sledge hammer and mounting brackets in place.
LOCATION	ITEM	ACTION REMARKS
1. Top of floor base	Wingnuts (1)	Remove.
2.	Sledge hammer bracket cover (2)	Remove.
3.	Sledge hammer (3)	Remove.
4.	Screw (4), lock- washer (5) and flat washer (6)	Using 7/16-inch box wrench, remove.
5.	Spring clip (7) and spacer (8)	Remove.
6.	Screw (9), lock- washer (10) and flat washer (11)	Using 7/16-inch box wrench, remove. There are two screws. Step 6 is typical for both screws.
7.	Screw (12)	Do step 6 again.
8.	Bracket (13) and spacer (14)	Remove.
9.	Sledge hammer and mounting bracket	See paragraph 4-40 for installation.



4-87. REMOVING FUEL CAN AND BRACKET.

This task covers:		
Removal		

INITIAL SETUP

Tools Personnel Required

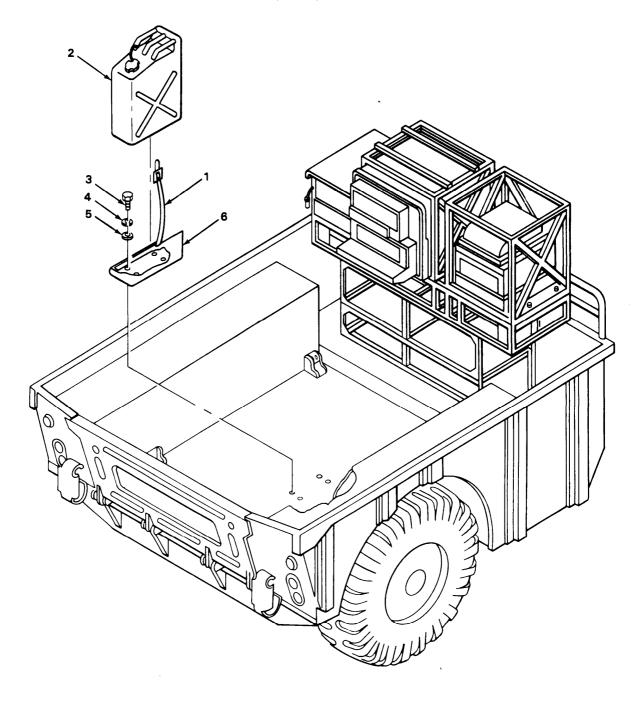
1/2-inch box wrench One mechanic

Materials/Parts Equipment Condition

None Fuel can and bracket in place.

	LOCATION	ITEM	ACTION REMARKS
1.	Curbside rear of floor base	Strap (1)	Loosen.
2.		Fuel can (2)	Remove.
3.		Screw (3), lock- washer (4) and flat washer (5)	Using 1/2-inch box wrench, remove. There are four screws. Step 3 is typical for all four screws.
4.		Screws (3)	Do step 3 again.
5.		Bracket (6)	Remove.
6.		Fuel can (2) and bracket (6)	See paragraph 4-43 for installation.

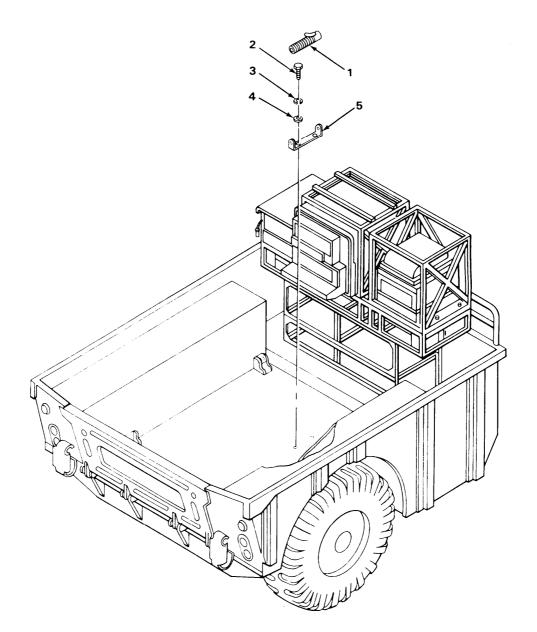
4-87. REMOVING FUEL CAN AND BRACKET. (CONT)



4-88. REMOVING FUEL FILLER NOZZLE AND BRACKET.

This task covers:				
Removal				
INITIAL SETUP				
Tools		Personnel Required		
1/2-inch box wrench		One mechanic		
Materials/Parts		Equipment Condition		
None		Fuel filler nozzle and bracket in place.		
LOCATION	ITEM	ACTION REMARKS		
Curbside front of floor base	Filler nozzle (1)	Remove.		
2.	Screw (2), lock- washer (3) and flat washer (4)	Using 1/2-inch box wrench, remove. There are two screws. Step 2 is typical of both screws.		
3.	Screw (2)	Do step 2 again.		
4.	Bracket (5)	Remove.		
5.	Filler nozzle (1) and bracket (5)	See paragraph 4-42 for installation.		

4-88. REMOVING FUEL FILLER NOZZLE AND BRACKET. (CONT)



4-89 REMOVING FLOOR BASE

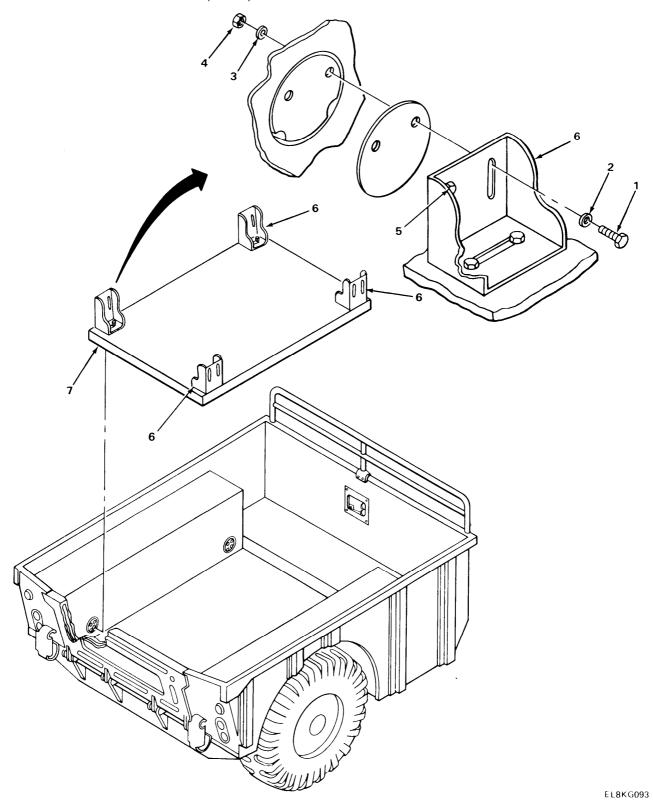
his task covers:		
Removal		
NITIAL SETUP		
Tools		Equipment Condition
1/2-inch box wrench (2 required)		Battery box removed, see paragraph 4-85. Generator removed, see paragraph 4-80. Fuel can and bracket removed, see
Materials/Parts		paragraph 4-87. Fuel filler nozzle and bracket removed,
None Personnel Required		see paragraph 4-88. Sledge hammer and mounting brackets removed, see paragraph 4-86.
Two mechanics		
LOCATION	ITEM	ACTION REMARKS
		NOTE
	A h	elper will be needed outside vehicle.
1. Inside carrier	Screw (1), flat washer (2), flat washer (3) and nut (4)	Using two 12-inch box wrenches, remove. There are two screws. Step 1 is typical for both screws.
2.	Screw (5)	Do step 1 again.
3.	Brackets (6)	There are four brackets. Steps 1 and 2 are typical for all four brackets.
4.	Floor base (7)	Remove.
		NOTE

See paragraph 4-41 for installation.

Floor base (7)

5.

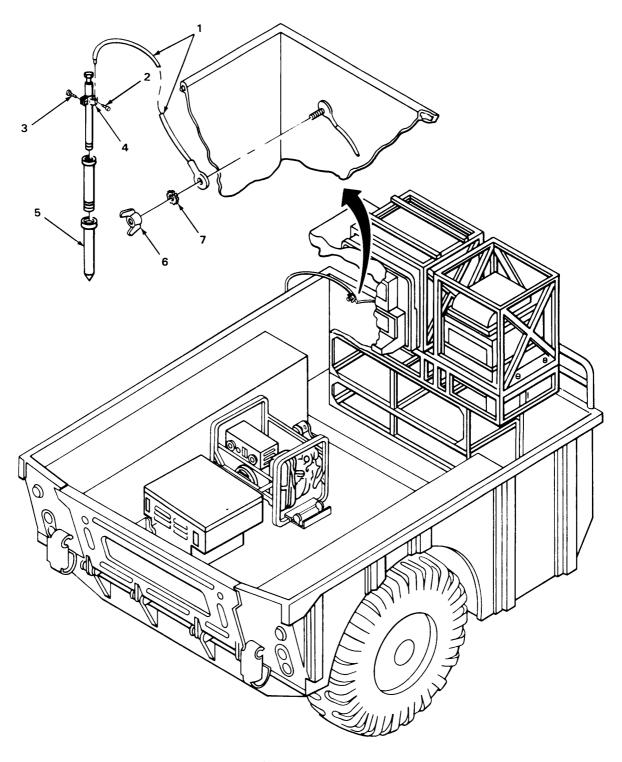
4-89. REMOVING FLOOR BASE. (CONT)



4-90. REMOVING EXTERNAL GROUND ROD KIT.

This task covers:		
Removal		
INITIAL SETUP		
Tools		Personnel Required
8-lb sledge hammer Flat-tip screwdriver Adjustable pliers		One mechanic Equipment Condition
Materials/Parts		External ground rod in place.
Canvas bag		
LOCATION	ITEM	ACTION REMARKS
1. Outside vehicle	10-foot ground strap (1) and clamp screw (2)	Using flat-tip screwdriver, remove.
2.	Clamp screw (3) and ground rod clamp (4)	Using flat-tip screwdriver, remove.
		NOTE
	make removal of	nd rod sits in must be soaked with water to ground rod easier. Ground rod comes in three nect top two sections before removing third
3.	Ground rod (5)	Using sledge hammer, remove.
Forward roadside corner of carrier forward wall	Wingnut (6), IT lockwasher (7) and 10-foot ground strap (1)	Using pliers, remove.
5.	Wingnut (6), IT lockwasher (7)	Using pliers, install.
6.	Ground rod (5)	Place hardware, ground strap, and ground rod sections in canvas bag and store under radio mount. See paragraph 4-51 for installation.

4-90. REMOVING EXTERNAL GROUND ROD KIT. (CONT)



This task covers:

- 1. Component setup for field operation
- 2. Reinstallation for mobile operation

INITIAL SETUP

Tools Personnel Required

Adjustable pliers Flat-tip screwdriver 8-lb sledge hammer Three mechanics

Equipment Condition

Materials/Parts

Vehicle at field operation site and

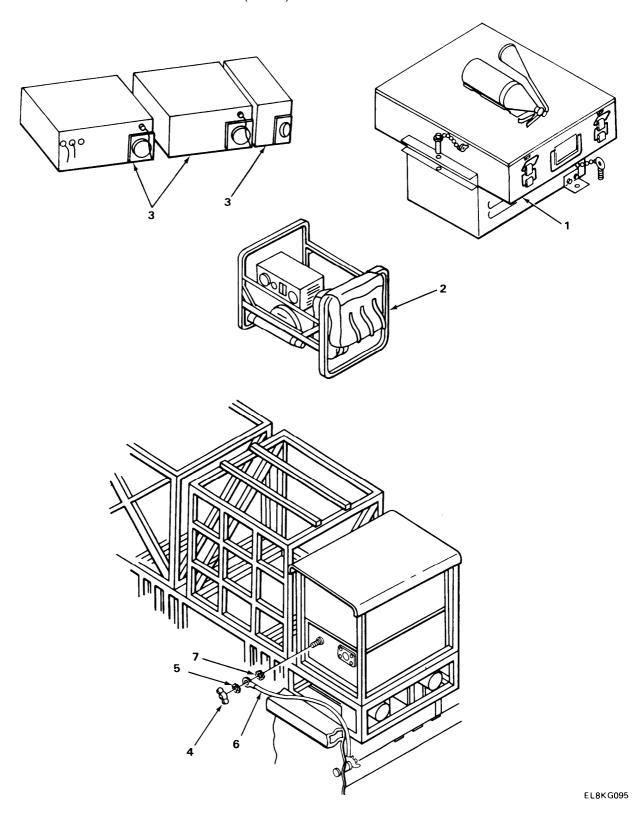
all power in OFF position.

Ground rod clamp kit Ground rod assembly (10 feet) Ground rod, sectional (9 feet)

LOCATION ITEM REMARKS

COMPONENT SETUP FOR FIELD OPERATION

1.	Vehicle bed	Battery box (1)	Remove, see paragraph 4-85. Leave batteries in battery box, and fire extinguisher installed.
2.	Field operation site	Battery box (1)	Place in position.
3.	Vehicle bed	Generator (2)	Remove, see paragraph 4-80. Leave canvas cable bag on.
4.	Field operation site	Generator (2)	Place in position.
5.	Vehicle bed	Radios (3)	Remove, see SB 11-131. There are three radios to be removed.
6.	Field operation site	Radios (3)	Place in position.
7.	Vehicle bed, behind power distribution box	Brass wingnut (4), lockwasher (5), ground strap (6) and lock- washer (7)	Using pliers, remove. Hardware will be used later in this task.



		ACTION	
LOCATION	ITEM	REMARKS	

COMPONENT SETUP FOR FIELD OPERATION (CONT)

NOTE

Before removing electronic equipment table, remove tacfire components and power cabling. See TM 11-7440-251-10, TM 11-7440-253-10-1 for removal. Leave key generator rack, message entry group rack, and electronic line printer rack attached to electronic equipment table.

8. Vehicle bed Electronic equipment table (1)

Quick release

9. Field operation

Remove, see paragraph 4-67.

Transfer from vehicle bed to operation site.

WARNING

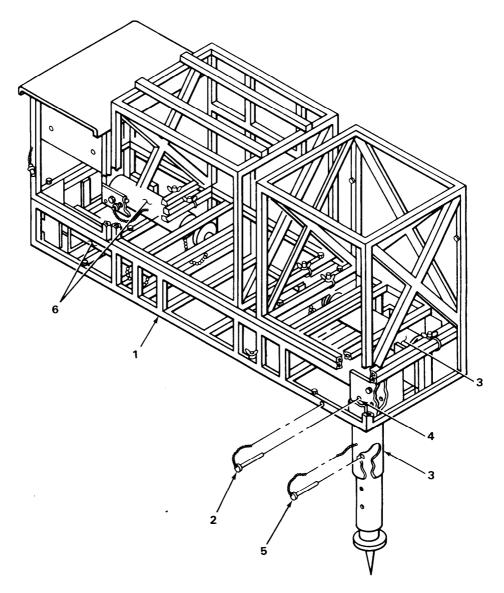
Due to weight of table legs, care must be taken when lowering into position.

NOTE

To lower electronic equipment table legs, see steps 9 through 12.

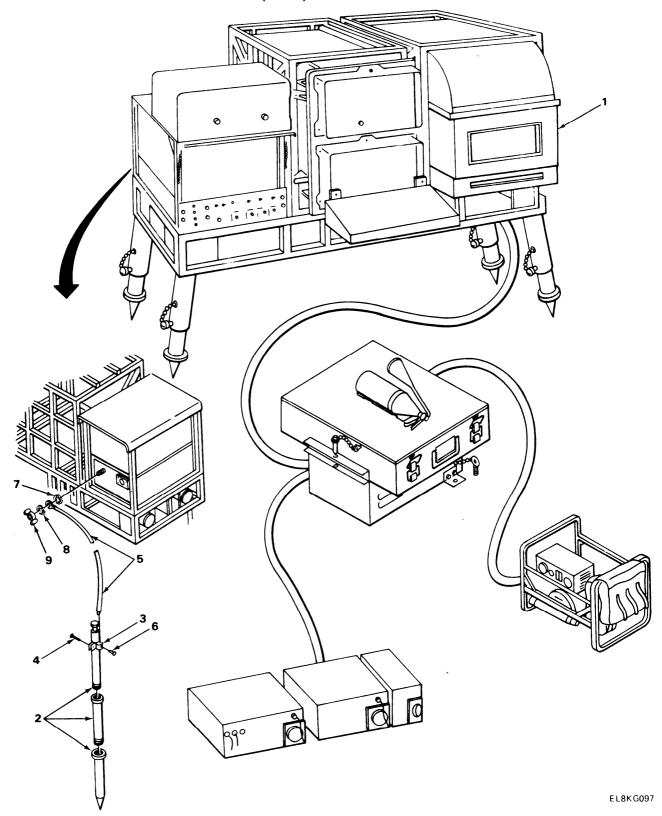
Remove.

Table leg (3) Lower. When lowered, table leg hole and hole in support bracket must be alined. 11. Quick release pin (2) and table leg hole (4) 12. Quick release pin (5) and table leg (3) There are four table legs. Steps 9 through 12 are typical for all four table legs. Table legs (6) Do steps 9 through 12 again. Adjust all legs to same height.		site	pin (2)	
(2) and table leg hole (4) 12. Quick release pin (5) and table leg (3) There are four table legs. Steps 9 through 12 are typical for all four table legs. 13. Table legs (6) Do steps 9 through 12 again.	10.		Table leg (3)	When lowered, table leg hole and
(5) and table desired height. There are four table legs. Steps 9 through 12 are typical for all four table legs. Table legs (6) Do steps 9 through 12 again.	11.		(2) and table leg	Install.
	12.		(5) and table	desired height. There are four table legs. Steps 9 through 12 are typical for all four table
	13.		Table legs (6)	

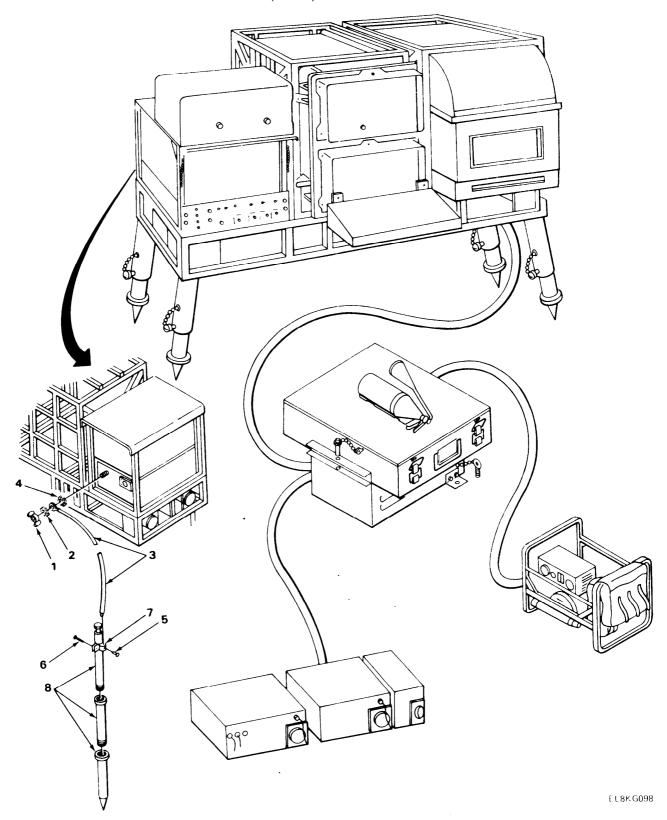


LOCATION	ITEM	ACTION REMARKS
COMPONENT SETUP FOR	FIELD OPERATION (CON	IT)
14. Field operation site	Electronic equip- ment table (1)	Place in position.
		NOTE
	ground rod come sledge hammer,	und rod is stored under radio mount. The es in three sections. Using driving stud and drive one section into ground. After a into ground, connect next section to it.
15. Field operation site	Ground rod (2), ground rod clamp (3) and clamp screw (4)	Using flat-tip screwdriver, install.
16.	10-foot ground strap (5) and clamp screw (6)	Using flat-tip screwdriver, install.
17. Stud behind power distribution box	Lockwasher (7), 10- foot ground strap (5), lockwasher (8) and brass wingnut (9)	Using pliers, install.
		NOTE

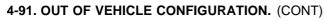
For antenna and power cabling hook-ups, see SB 11-131. For tacfire component installations, see TM 11-7440-251-10 and TM 11-7440-253-10-1.

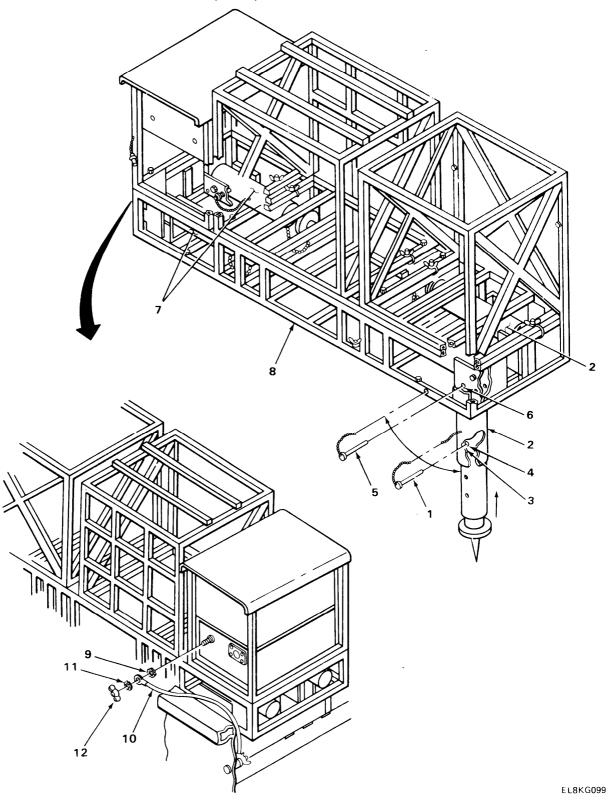


LOCATION	ITEM	ACTION REMARKS	
REINSTALLATION FOR MO	BILE OPERATION		
		NOTE	
		d power cabling disconnections, see SB 11-131. onent removals, see TM 11-7440-251-10 and 10-1.	
Stud behind power distribution box	Wingnut (1), lockwasher (2), 10- foot ground strap (3) and lock- washer (4)	Using pliers, remove. Hardware will be used later in this task.	
Field operation site.	Clamp screw (5) and 10-foot ground strap (3)	Using flat-tip screwdriver, remove.	
3.	Clamp screw (6) and ground rod clamp (7)	Using flat-tip screwdriver, remove.	
		NOTE	
	make removal o	ound rod sits in must be soaked with water to f ground rod possible. Ground rod comes in Disconnect top two sections before removing	
4.	Ground rod (8)	Using 8-lb sledge hammer, remove.	
		NOTE	
		d clamp, clamp screws, 10-foot ground strap sections in canvas bag. Store under radio	

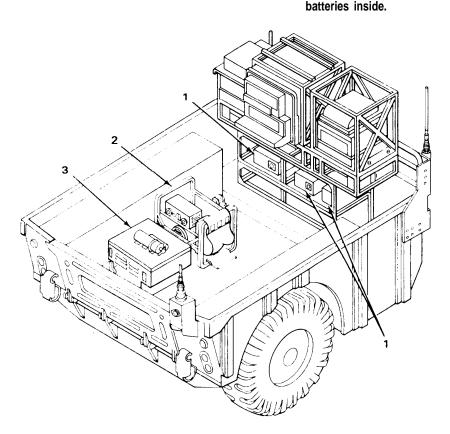


	LO	CATION	ITEM	ACT	ION REMARKS	
REINS	REINSTALLATION FOR MOBILE OPERATION (CONT)					
5.	Field op site	eration	Quick release pin (1)	Remove	э.	
6.			Table leg (2), pin hole (3) and pin hole (4)		able leg up until pin hole (3) and pin) are alined.	
7.			Quick release pin (1)	Install.		
8.			Quick release pin (5)	Remov	e.	
9.			Table leg (2)	Raise.	When raised, table leg hole and hole in support bracket must be alined.	
10.			Quick release pin (5) and table leg hole (6)	Install.	There are four table legs. Steps 5 thru 10 are typical for all four table legs.	
11.			Table legs (7)	Do step	os 5 through 10 again.	
12.	Vehicle b	•	Electronic equip- ment table (8)	Install,	see paragraph 4-27.	
					NOTE	
			To install tacfire cor TM 11-7440-251-10 a		ts and power cabling, see 11-7440-253-10-1.	
13.	Behind pribution	power dis- box	Lockwasher (9), ground strap (10), lockwasher (11) and brass wing- nut (12)	Using	pliers, install.	





LOCATION	ITEM	ACTION REMARKS
REINSTALLATION FOR MOBIL	LE OPERATION (CONT)	
14. Vehicle bed	Radios (1)	Install, see SB 11-131. There are three radios to be installed.
15.	Generator (2)	Install, see paragraph 4-44.
16.	Battery box (3)	Install, see paragraph 4-45. Battery box is installed with



Section VIII PREPARATION FOR STORAGE AND SHIPMENT

Refer to SB 38-100 for preservation, packaging, packing and marking materials, supplies, and equipment used by the army.

CHAPTER 5

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

Direct support and general support maintenance is limited to straightening bends and welding minor cracks and breaks in tables, racks, and mounts. Refer to TM 9-237 for welding theory and application.

APPENDIX A

REFERENCES

A-1. SCOPE.

The following publications contain information applicable to the installation of Electronic Equipment Installation Kit MK-1819/GSG-10(V) and Power Accessory Kit MK-1821/GSG-10(V) in Cargo Truck 1 1/4 ton M561.

A-2. PAMPHLETS.

Consolidated Index of Army Publications and Blank Forms	DA Pam 310-1
Report of Packaging and Handling Deficiencies	AR 700-58
A-3. SUPPLY BULLETINS.	
Vehicular Radio Sets and Authorized Installations	SB 11-131
Printing and Preservation Supplies Available for Field Use for Electronics Command Equipment	SB 11-573
Preservation, Packaging, Packing and Marking Materials, Supplies and Equipment Used by the Army	SB 38-100
A-4. TECHNICAL BULLETINS.	
Field Instructions for Painting and Preserving Electronics Command Equipment, Including Camouflage Pattern Painting of Electrical Equipment Shelters	TB 43-0118
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	TD 010 064
Direction Finder Equipment	TB SIG 291

TM 11-7440-284-14

A-5. TECHNICAL MANUALS.

Welding Theory and Application	TM 9-237 TM 11-7440-251-10
Artillery, Battery Art/030-122(BD0)	1101 11-7440-231-10
Operator's Manual: Message Entry	
Device, Variable Format AN/GSC-21 (VFMED)	TM 117440-253-10
The Army Maintenance Management	TM 38-750
System (TAMMS)	1101 30-730
Administrative Storage of Equipment	TM 740-90-1
Procedures for Destruction of	
Electronics Materiel to Prevent	TM 750 044 0
Enemy Use (Electronics Command)	TM 750-244-2

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I INTRODUCTION

B-1. SCOPE.

- a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance categories.
- b. The Maintenance Allocation Chart (MAC) in Section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilities of the designated maintenance categories.
- c. Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from Section II.
- d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

B-2. MAINTENANCE FUNCTIONS.

Maintenance functions will be limited to and defined as follows:

- a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics, with established standards through examination (e.g., by sight, sound, or feel.)
- b. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases.
- d. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.
- e. Aline. To adjust specified variable elements of an item to bring about optimum or desired performance.
- f. Calibrate. To determine and cause corrections to be made or to be adjusted on instrument or test, measuring and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

- g. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of a piece of equipment or system.
- h. Replace. To remove an unserviceable item and install a serviceable counter-part in its place. 'Replace' is authorized by the MAC and is shown as the 3rd position code of the SMR code
- i. Repair. The application of maintenance services, including fault location/ troubleshooting, removal/installation, and disassembly/assembly procedures, and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item or system.
- j. Overhaul. That maintenance effort (service or action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- K. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) considered in classifying Army equipment/components.

B-3. EXPLANATION OF COLUMNS IN THE MAC, SECTION II.

- a. Column 1, Group Number. Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly. End item group number shall be '00'.
- b. Column 2, Component/Assembly. Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.
- c. Column 3, Maintenance Function. Column 3 lists the functions to be performed on the item listed in Column 2. For detailed explanation of these functions, see paragraph B-2.

- d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn(s), the category of maintenance authorized to perform the function listed in Column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate work time figures will be shown for each category. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the Maintenance Allocation Chart. The symbol designations for the various maintenance categories are as follows:
 - C Operator or Crew
 - O Organizational Maintenance
 - F Direct Support Maintenance
 - H General Support Maintenance
 - L Specialized Repair Activity (SRA)
 - D Depot Maintenance
- e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TMDE, and Support equipment required to perform the designated function.
- f. Column 6, Remarks. This column shall, when applicable contain a letter code, in alphabetic order, which shall be keyed to the remarks contained in Section IV.

B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.

- a. Column 1, Reference Code. The tool and test equipment reference code correlates with a code used in the MAC. Section II, column 5.
- b. Column 2, Maintenance Category. The lowest category of maintenance authorized to use the tool or test equipment.
 - c. Column 3, Nomenclature. Name or identification of the tool or test equipment.
- d. Column 4, National Stock Number. The national stock number of the tool or test equipment.
 - e. Column 5, Tool Number. The manufacturer's part number.

B-5. EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

- a. Column 1, Reference Code. The code recorded in column 6, Section II.
- b. Column 2, Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

Section II MAINTENANCE ALLOCATION CHART FOR INSTALLATION KIT MK-1819/GSG-10(V) AND POWER ACCESSORY KIT MK-1821/GSG-10(V)

(1) GROUP	(2) COMPONENT/	(3) MAINTENANCE			(4)			(5) TOOLS	(6)
NUMBER	ASSEMBLY	FUNCTION	С	0	F	H	D	AND EQPT	REMARKS
00	Installation Kit MK-1819/ GSG-10 (V) and Power Accessory Kit MK-1821/ GSG-10 (V)	Install		10.5				1,2	
01	Tacfire Rack	Inspect Service Replace Repair	0.3 0.3	1.0	1.5			1,2 1,3,4	
0101	Radio Mount	Inspect Service Replace Repair	0.1 0.2	2.0	2.7			1,2 1,3,4	

Section II MAINTENANCE ALLOCATION CHART FOR INSTALLATION KIT MK-1819/GSG-10(V) AND POWER ACCESSORY KIT MK-1821/GSG-10(V) (CONT)

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION		I		CATEO	1	(5) TOOLS AND	(6) REMARKS
NOMBER	AGGENIBET	T GIVE TIENT	С	0	F	Н	D	EQPT	TKEM/TKIKO
0400	Electronico	lacacat	0.4			,			
0102	Electronics Equipment Table	Inspect Service Replace Repair	0.1	1.5	2.0			1,2 1,3,4	
0103	Key Generator Rack	Inspect Service Replace Repair	0.1 0.2	0.5	0.7			1,2 1,3,4	
0104	Message Entry Group Rack	Inspect Service Replace Repair	0.1 0.2	0.5	0.7			1,2 1,3,4	
0105	Elect ronic Line Printer Rack	Inspect Service Replace Repair	0.1 0.2	0.5	0.7			1,2 1,3,4	
0106	Front Rein- forcement Support	Inspect Service Replace Repair	0.1 0.2	0.4	0.5			1,2 1,3,4	
02	Tacf ire Components								C,D
0201	Electronic Line Printer								C,D

Section II MAINTENANCE ALLOCATION CHART FOR INSTALLATION KIT MK-1819/GSG-10(V) AND POWER ACCESSORY KIT MK-4821/GSG-10(V) (cont)

(1) GROUP	(2) COMPONENT/	(3) MAINTENANCE	MAIN	ITENA	(4) NCE	CATE	GORY	(5) TOOLS	(6)
NUMBER	ASSEMBLY		С	0	F	Н	D	AND EQPT	REMARKS
0202	Message								C,D
	Entry Group								0,5
0203	Key Generator								A A
0204	Radio Receiver/ Transmitters								В
0205	Power Distri- bution Box								C,D
03	Antenna Assemblies	Inspect Service Replace Repair	0.2 0.2	1.0	1.5			1,2 1,3,4	
04	Generator	Inspect Service Replace Repair	0.1 0.3	0.5	3.0			1,2	
05	Batteries	Inspect Service Replace	0.2 0.2	0.3				1	
06	Fire Extinguisher		0.1	0.1					

Section III TOOL AND TEST EQUIPMENT REQUIREMENTS FOR INSTALLATION KIT MK-1819/GSG-10(V) AND POWER ACCESSORY KIT MK-1821/GSG-10(V)

TOOLS OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	O,F	Tool Kit Mechanic	5180-00-754-0641	
2	0	No. 2 Common Organizational Maintenance Tool Kit	5910-00-754-0654	
3	F,H	Tool Kit, Welder's	5180-00-754-0661	
4	F,H	Shop Equipment, Welding Field Maintenance	3470-00-357-7268	

Section IV REMARKS

REFERENCE CODE	REMARKS	
А	See KAM-240 B/TSEC VOL. 1	
В	See TM 11-5820-401-12	
С	See TM 11-7440-251-10	
D	See TM 11-7440-253 -10-1	

		•	
		_	

APPENDIX C

EXPENDABLE SUPPLIES AND MATERIALS LIST Section I INTRODUCTION

C-1. SCOPE.

This appendix lists expendable supplies and materials you will need to operate and maintain the MK-1819/GSG-10(V) electronic equipment installation kit and MK-1821/GSG-10(V) power accessory kit.

C-2. EXPLANATION OF COLUMNS.

- a. Column 1, Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., use cleaning compound, item 1, appendix C).
- b. Column 2, Level. This column identifies the lowest level of maintenance that requires the listed item.
 - C Operator/Crew
- c. Column 3, National Stock Number. This is the National Stock Number assigned to the item; use it to request to requisition the item.
- d. Column 4, Description. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses, if applicable.
- e. Column 5, Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character abbreviation (e.g., ea, in., pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Section II EXPENDABLE SUPPLIES AND MATERIALS LIST

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION, FSCM	(5) U/M
1	С	6850-00-105-3084	Trichlorotrifluoroethane Cleaning Compound, Freon PCA	PT
2	С	8305-00-222-2423	Cloth, Cotton (Cheesecloth) CCC-C-440E (81348)	YD
3	С	6810-00-264-8983	Methylethylketone	PT

GLOSSARY

A collection of words or terms and their definitions are given in this section.

Word or Term	Definition
Aline	Arrange or bring into line.
Burrs	Sharp edges.
Chock	Item used to keep vehicle from rolling.
Clockwise	Moving to the right, as in the direction of the hands of a clock.
Counterclockwise	Moving to the left, as in the opposite direction of the hands of a clock.
Engage	To apply, make connection with.
Exterior	Outside.
External	Outside.
Flammable	Can start on fire.
Flush	Up against.
Hardware	Manufactured articles like lockwashers, flat washers, nuts, and screws.
Install	To put in place or position.
Interior	Inside.
Pilot drill	To make ready for final drilling.
Preparation	To make ready.
Stud	A headless screw.
Uncrating	To unpack.
Ventilate	To expose to air.
Volts Direct Current (vdc)	An electric current flowing in one direction only and substantially constant in value.

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