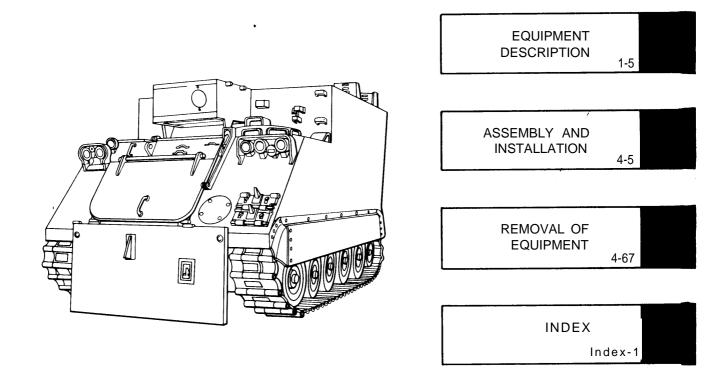
TM 11-7440-268-14

TECHNICAL MANUAL

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



ELECTRONICS EQUIPMENT INSTALLATION KIT MK-1531()/GSG-10(V) IN COMMAND POST CARRIER M577A1 (NSN 5895-01-010-5114)

HEADQUARTERS, DEPARTMENT OF THE ARMY

23 MAY 1983





- SAFETY STEPS TO FOLLOW IF SOMEONE IS THE VICTIM OF ELECTRICAL SHOCK
 - 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
 - 4 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.

When welding, top off fuel tanks and purge command carrier interior.

TECHNICAL MANUAL No. 11-7440-268-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 23 May 1983

Operator's Organizational, Direct Support, and General Support Maintenance Manual

for

ELECTRONICS EQUIPMENT INSTALLATION KIT MK-1531()/GSG-10(V) IN COMMAND POST CARRIER M577A1 (NSN 5895-01-010-5114)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

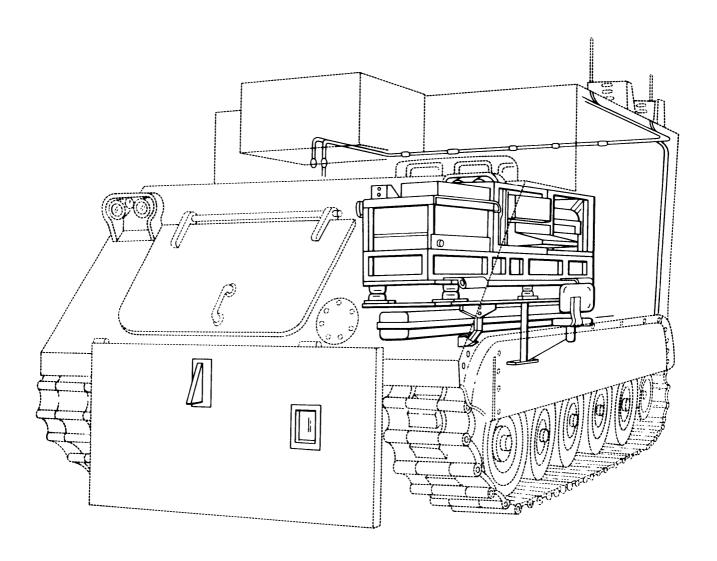
You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Equipment Publications and Blank Forms) or DA Form 2028-2 located in the back of this manual direct to: Commander, 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 your're looking for. If you find a word or term you don't understand, refer to the glossary in the back of the book.



Electronics Equipment Installation Kit MK-1531 ()/GSG-10(V) Mounted Inside

CHAPTER 1

INTRODUCTION

Subject	Section	Page
General Information	1	1-1
Equipment Description		1-5
Principles of Operation		1-8

OVERVIEW

This chapter contains general information, equipment descriptions and principles of operation for Electronics Equipment Installation Kit MK-15310/GSG-10(V) in Command Post Carrier M577A1.

Section I GENERAL INFORMATION

Subject		Page
Scope	1-1	1-1
Maintenance Forms, Records, and Reports	1-2	1-2
Consolidated Index of Army Publications and Blank Forms	1-3	1-2
Destruction of Army Electronic Materiel	1-4	1-2
Administrative Storage	1-5	1-2
Reporting Equipment Improvement Recommendations	1-6	1-2
Nomenclature Cross Reference	1-7	1-3
List of Abbreviations	1-8	1-4

1-1. SCOPE.

Type of Manual: Operator's, organizational direct support, and general support maintenance and repair.

Equipment Name and Model Number: Electronics Equipment Installation Kit MK-15310/GSG-10(V) in Command Post Carrier M577A1.

Purpose of Equipment: Provides mounting racks, hardware and cables for the installation of Variable Format Message Entry Device AN/GSC-21 in Command Post Carrier M577A1.

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 prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73/AFR 400-54/MCO 4430.3E.

DISCREPANCY IN SHIPMENT REPORT

Fill out and forward Discrepancy in Shipment Report, (DISREP) (SF 361) as prescribed in AR 55-381 NAVSUPINST 4610.33B/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 750-244-2.

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 EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).

If your installation kit needs improvement, let us know. Send us an 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 furnished 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
bottom plate assembly	bottom plate, brackets, braces, supports, stiffener
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	Electronic Equipment Table MT-4394/GSG-10(V)
Installation kit or MK-1531	Electronics Equipment Installation Kit MK-1531()/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)
mount assembly	Bottom plate assembly, top plate assembly, tandem cup assembly, electronic equipment table
power distribution box	Distribution Box J-3030/GSG-10(V)
rack and wall mounting assembly	message entry group rack, electronic line printer rack and wall mounting assembly
tacfire components	electronic line printer, message entry group, key generator, power distribution box

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1-7. NOMENCLATURE CROSS REFERENCE. (CONT)

Common Name	Official Nomenclature
tacfire rack	electronic line printer rack, message entry group rack, key generator rack, electronics equipment table rack
tandem cup assembly	tandem cup mounts
top plate assembly	top plate, tandem cup assembly
wall mounting assembly	wall mounting, tandem cup assembly

1-8. LIST OF ABBREVIATIONS.

This list contains abbreviations used in this manual.

Abbreviation	Word or Term
elect.	electrical
ELP	electronic line printer
ft	feet
IET	internal/external tooth
in.	inch
IT	internal tooth
KG	key generator
lg	long
MEG	message entry group
sp	special purpose

Section II EQUIPMENT DESCRIPTION

Subject	Para	Page
Purpose of Installation Kit	1-9	1-5
	1-10	1-5
Location and Description of Major Components	1-11	1-6
	1-12	1-8

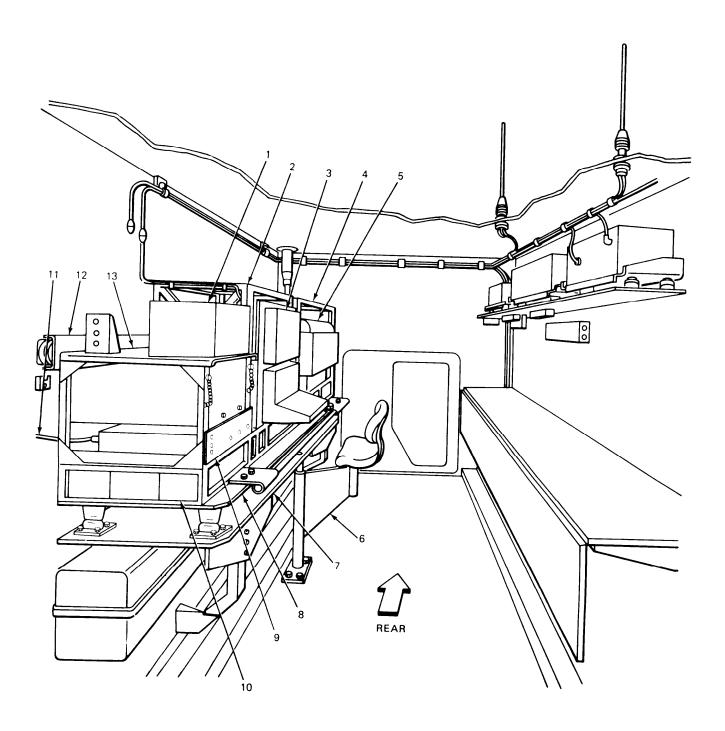
1-9. PURPOSE OF INSTALLATION KIT.

Provides mounting racks and power connections for electronic equipment.

1-10. EQUIPMENT CAPABILITIES AND FEATURES.

Provides an all weather land 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)

CURBSIDE WALL

- 1 KEY GENERATOR. Communication security equipment.
- 2 MESSAGE ENTRY GROUP RACK. Provides a housing and support for message entry group.
- 3 MESSAGE ENTRY GROUP. Groups incoming messages to produce a word or words.
- 4 ELECTRONIC LINE PRINTER RACK. Provides a housing and support for electronic line printer.
- 5 ELECTRONIC LINE PRINTER. Teletypewriter.
- 6 SEAT ASSEMBLY. Provides a seat for the operator of electronic equipment.
- 7 BOTTOM PLATE ASSEMBLY. Provides a base and support for the top plate assembly.
- 8 TOP PLATE ASSEMBLY. Provides a mounting base for the tacfire rack.
- 9 POWER DISTRIBUTION BOX. Distributes input power to electronic equipment.
- 10 ELECTRONIC EQUIPMENT TABLE. Provides a mount and support for electronic equipment racks.
- 11 POWER CABLE. Routes input power to power distribution box.
- 12 WALL MOUNTING ASSEMBLY. Provides rear support for tacfire rack.
- 13 KEY GENERATOR RACK. Provides a housing and support for key generator and power distribution box.

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

Subject	Para	Page
Principles of Operation	1-13	1-8

1-13. 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		2-1
Operator Preventive Maintenance Checks and Services	II	2-1
Operation Under Usual Conditions	III	2-1
Operation Under Unusual Conditions	lv	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		3-1
Troubleshooting Procedures	II	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 lubrications 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	1	4-1
Service Upon Receipt	II	4-1
Assembly and installation of Electronic Equipment Installation Kit	III	4-5
Preventive Maintenance Checks and Services	IV	4-66
Organizational Troubleshooting	V	4-66
Maintenance Procedures	VI	4-66
Removal of Electronic Equipment Installation Kit	VII	4-67
Preparation for Storage and Shipment	VIII	4-126

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, 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

Personnel Required Tools

Pliers

Claw hammer

Shears

Pocket knife

Materials/Parts

None

One mechanic

Equipment Condition

Equipment crated.

ACTION REMARKS ITEM LOCATION

WARNING

Stand to the side of each packing band when cutting.

NOTE

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

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

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

Top cover (3) Remove. 3. Wooden crate

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

Side cover (5) Remove. 5. Wooden crate

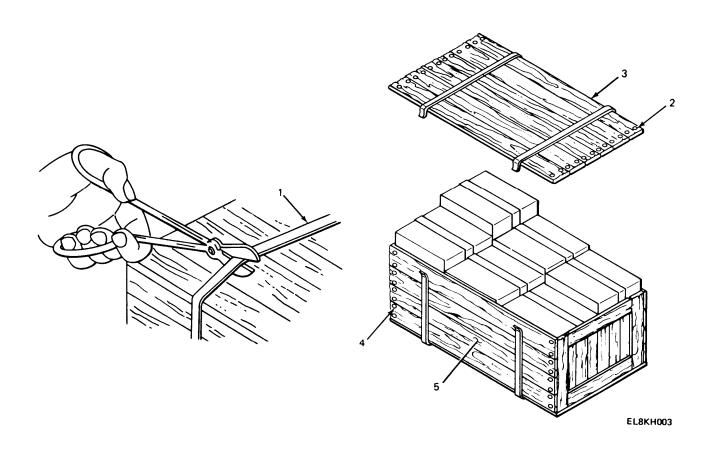
If packed for overseas, remove moisture-proof cover.

4-3. UNPACKING. (CONT)

		ACTION	
LOCATION	ITEM	REMARKS	

NOTE

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



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 installation kit.

If damage to a unit or a part of the installation kit other than minor scratches or dents are found, refer to 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 ELECTRONICS EQUIPMENT INSTALLATION KIT

Subject	Para	Page
Overview		4-5
Removing Map Board	4-5	4-6
Removing Rear Curbside Personnel Seat	4-6	4-8
Removing Rear Curbside Table	4-7	4-10
Installing Rivnuts	4-8	4-12
Assembling Top Plate Assembly To Bottom Plate Assembly	4-9	4-14
Installing Mount Assembly	4-10	4-16
Installing Message Entry Group (MEG) rack and Electronic Line		
Printer (ELP) rack to Electronic Equipment Table	4-11	4-20
Installing Wall Mounting Assembly to MEG Rack and ELP Rack	4-12	4-22
Locating Wall Mounting Assembly Welding Area	4-13	4-24
Installing Rack and Wall Mounting Assembly	4-14	4-30
Installing Key Generator rack to Electronic Equipment Table and		
Wall Mounting Assembly	4-15	4-34
Installing Seat Support Assembly and Seat	4-16	4-36
Installing 4 Inch Ground Straps	4-17	4-44
Installing Electronic Line Printer Sliding Tray	4-18	4-46
Installing Tacfire Components	4-19	4-48
Installing 6 Inch and 15 Inch Ground Straps	4-20	4-52
Installing W280 Cable Assembly	4-21	4-54
Installing CX-13088/U and CX-13050/U Cable Assemblies	4-22	4-56
Installing 15 Foot Cable Assembly	4-23	4-58
Installing Safety Bar	4-24	4-60
Installing External Ground Rod Kit	4-25	4-62

OVERVIEW

Before beginning assembly of Installation Kit MK-1531 certain items should be inspected. Upon removal of curbside table, inspect wall support bracket mounting holes for rust. If rust is detected, see paragraph 4-8 for installation of rivnuts.

WARNING

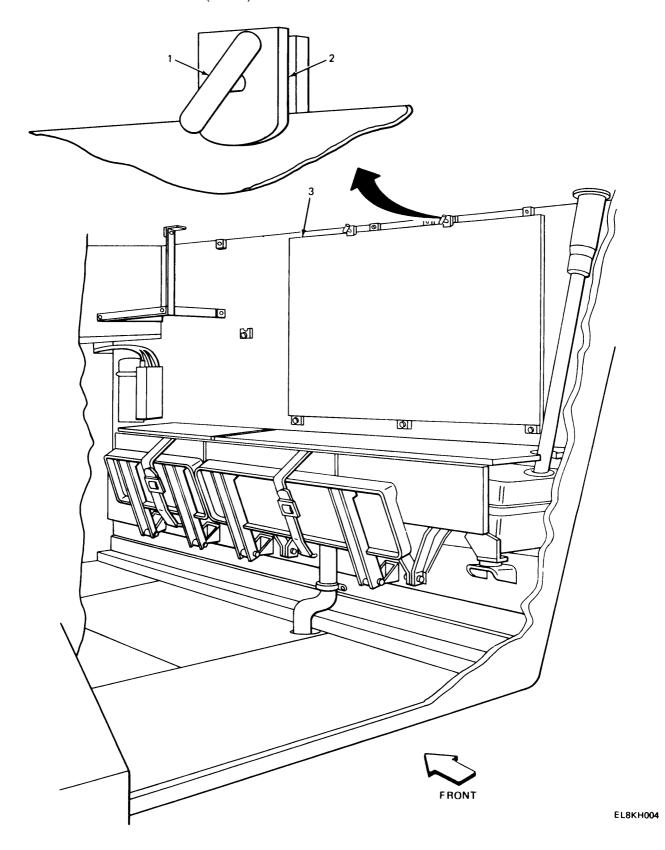
Welding is required for this installation. Top off bothfuel tanks and purge carrier interior of fumes.

4-5. REMOVING MAP BOARD.

This task covers:			
Removal			
INITIAL SETUP			
Tools		Personnel Required	
Pliers	One mechanic		
Materials/Parts	Equipment Condition		
None		Vehicle at installation site.	
LOCATION	ITEM	ACTION REMARKS	
Curbside wall in rear of vehicle	Thumb screws (1)	Loosen. Turn counterclockwise.	
2.	Clamps (2)	Turn. Turn both clamps until map board can be lowered.	
3.	Map board (3)	Remove. Lift rear of map board up, remove from supports.	
		NOTE	
		when removed from carrier may be hung in n. Chains are provided on back of map board	

covered extension. Chains are provided on back of map board for hanging.

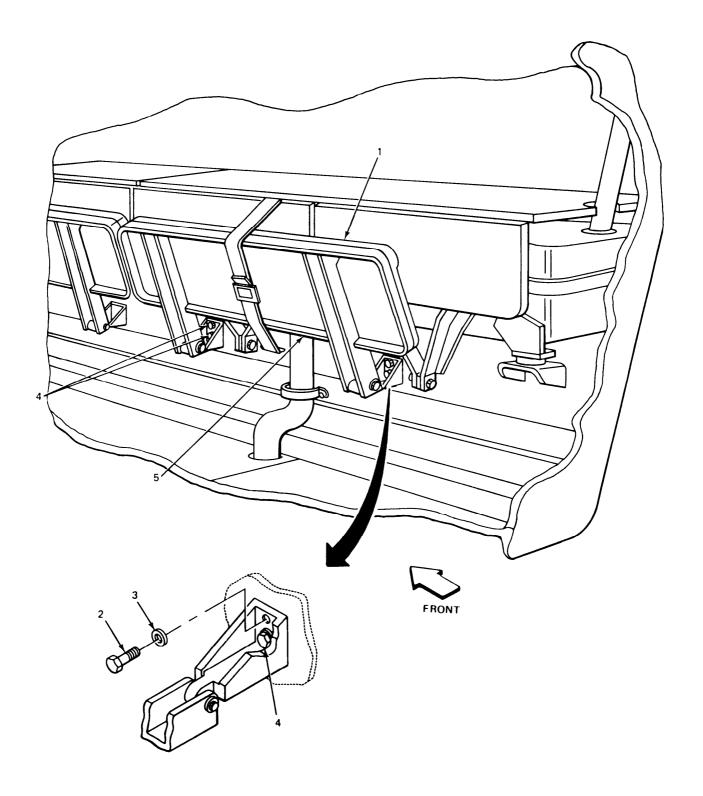
4-5. REMOVING MAP BOARD. (CONT)



4-6. REMOVING REAR CURBSIDE PERSONNEL SEAT.

his task covers:		
Removal		
NITIAL SETUP		
Tools		Personnel Required
3/4 inch socket	uranah	One mechanic
3/8 inch drive ratchet v 3/8 inch drive x 10 inc		Equipment Condition
Materials/Parts None		Vehicle at installation site and all tools removed from under personnel seats.
LOCATION	ITEM	ACTION REMARKS
REMOVAL		
Curbside wall in rear of vehicle	Rear personnel seat cushion (1)	Remove.
2.	Screw (2) and flat washer (3)	Using 3/4 inch socket, extension and ratchet wrench, remove. There are four screws. Step 2 is typical for all four screws.
3.	Screws (4)	Do step 2 for remaining three screws. Save all removed hardware.
4.	Rear personnel seat (5)	Remove. Store for future use.

4-6. REMOVING REAR CURBSIDE PERSONNEL SEAT. (CONT)



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4-7. REMOVING REAR CURBSIDE TABLE.

This task covers:

Removal

INITIAL SETUP

Tools Personnel Required

11/16 inch box wrench

One mechanic
9/16 inch box wrench

7/16 inch box wrench (2 required) Equipment Condition

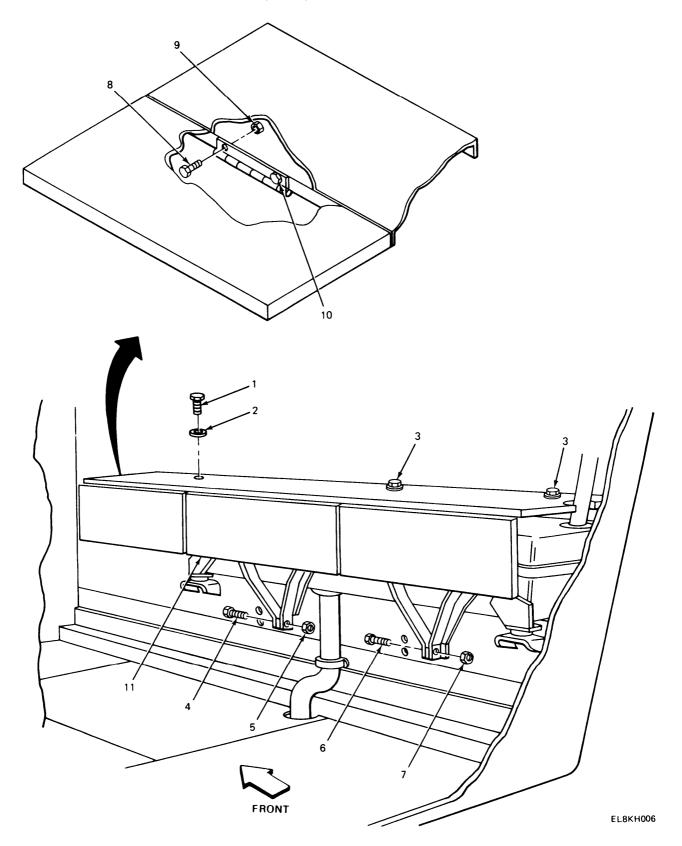
Materials/Parts Rear personnel seat removed.

See paragraph 4-6.

None

LOCATION	ITEM	ACTION REMARKS
Curbside wall in rear of vehicle	Screw (1) and flat washer (2)	Using 9/16 inch box wrench, remove. There are three screws. Step 1 is typical for all three screws.
2.	Screws (3)	Do step 1 for remaining screws.
3.	Screw (4) and nut (5)	Using 9/16 inch and 11/16 inch box wrenches, remove.
4.	Screw (6) and nut (7)	Using 9/16 inch and 11/16 inch box wrenches, remove.
5.	Screw (8) and nut (9)	Using two 7/16 inch box wrenches, remove. There are two screws. Step 5 is typical of both screws.
6.	Screw (10)	Do step 5 again.
7.	Table (11)	Remove. Store for future use.

4-7. REMOVING REAR CURBSIDE TABLE. (CONT)



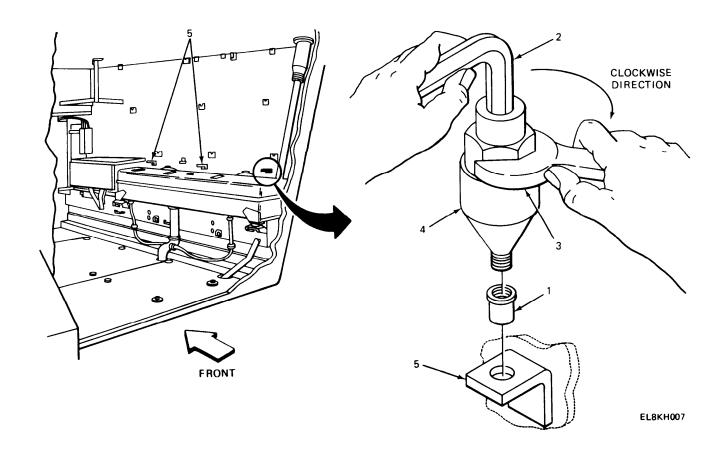
4-8. INSTALLING RIVNUTS.

This task covers: Installation **INITIAL SETUP** Tools Personnel Required 1/2 inch drill bit One mechanic Electric drill Rivnut tool **Equipment Condition** Adjustable wrench 3/8 inch hex wrench Table removed. See paragraph 4-7. Materials/parts 3/8-16 nut, rivnut (3 required) **ACTION** LOCATION ITEM **REMARKS** NOTE Rivnuts should only be installed if support bracket press nuts are damaged. 1. Support bracket Using 1/2 inch drill bit and electric drill. drill out the three support bracket press nuts. 2. Pull up stud Rivnut (1) Install. advance Screw rivnut onto pull up stud advance until rivnut is tight. 3. Drilled hole Rivnut (1) Install. Insert rivnut tool with rivnut into drilled hole. 4. Top of rivnut Hex wrench (2) Install. tool

Hold still.

4-8. INSTALLING RIVNUTS. (CONT)

	LOCATION	ITEM	ACTION REMARKS
5.	Hex nut on rivnut tool	Wrench (3)	Using adjustable wrench, turn clockwise. Turn wrench 1 1/2 turns or until tight.
6.	Rivnut	Rivnut tool (4)	Remove. Turn entire tool counterclockwise.
7.	Support brackets	Rivnut holes (5)	Do steps 1 thru 5 again for each rivnut.



4.9. ASSEMBLING TOP PLATE ASSEMBLY TO BOTTOM PLATE ASSEMBLY.

Screw (3) and

nut (6)

This task covers: Assembly **INITIAL SETUP** Tools Personnel Required 9/16 inch box wrench (2 required) Two mechanics Materials/Parts **Equipment Condition** Tandem cup assembly mounted to 3/8-16 x 1 1/2 inch long hex head top plate assembly. screw (16 required) 3/8 inch flat washer (32 required) 3/8-16 self-locking nut (16 required) Top plate assembly Bottom plate assembly **ACTION LOCATION** ITEM **REMARKS** WARNING A helper will be needed to lift top plate assembly onto bottom plate assembly. 1. Outside of Top plate assembly Put top plate assembly on top of bottom plate assembly and aline holes of tandem vehicle (1) and bottom plate assembly (2) cup. 2. Screw (3), flat Install, hand tighten. washers (4) and There are sixteen screws. Step 2 is (5) and nut (6) typical for all sixteen screws. 3. Screw holes (7) Do step 2 again.

Using two 9/16 inch box wrenches, tighten.

typical for all sixteen screws.

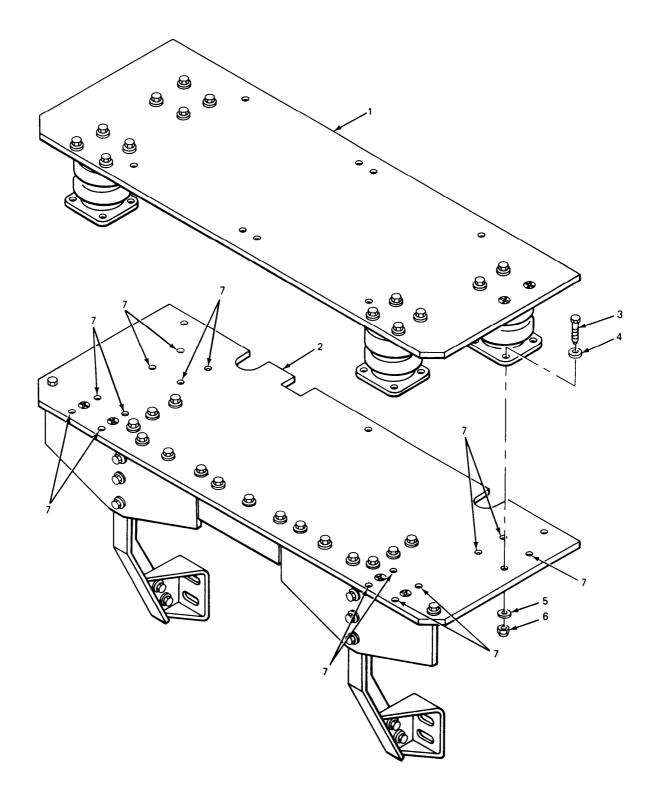
Do step 4 for remaining fifteen screws.

There are sixteen screws. Step 4 is

4.

5.

4-9. ASSEMBLING TOP PLATE ASSEMBLY TO BOTTOM PLATE ASSEMBLY. (CONT)



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4-10. INSTALLING MOUNT ASSEMBLY.

This task covers:

Installation

INITIAL SETUP

Tools

9/16 inch box wrench 3/4 inch box wrench

Materials/Parts

1/2 inch spring lockwasher (4 required) 3/8 -16 x 2 inch long hex head screws

(3 required)

3/8 inch flat washer (3 required)

3/8 inch spring lockwasher

(3 required)

1/16 inch thick shim (as required)
1/8 inch thick shim (as required)
1/4 inch thick shim (as required)

Materials/Parts (Cont)

Mount assembly

All hardware previously removed and saved from personnel seat (see

paragraph 4-6).

Personnel Required

Two mechanics

Equipment Condition

Map board removed. See paragraph 4-5. Personnel seat removed. See paragraph 4-6.

Table removed. See paragraph 4-7. Top plate and bottom plate assembled.

See paragraph 4-9.

LOCATION

ITEM

ACTION REMARKS

WARNING

The mount assembly requires two mechanics to lift and position.

NOTE

If press nuts in wall support brackets are bad, install rivnuts (see paragraph 4-8).

1. Curbside wall in rear of vehicle

Mount assembly (1)

Put mount assembly into carrier and aline holes.

Lower curbside wall under fuel tank Screw (2), spring lockwasher (3) and flat washer (4)

Install, hand tighten.

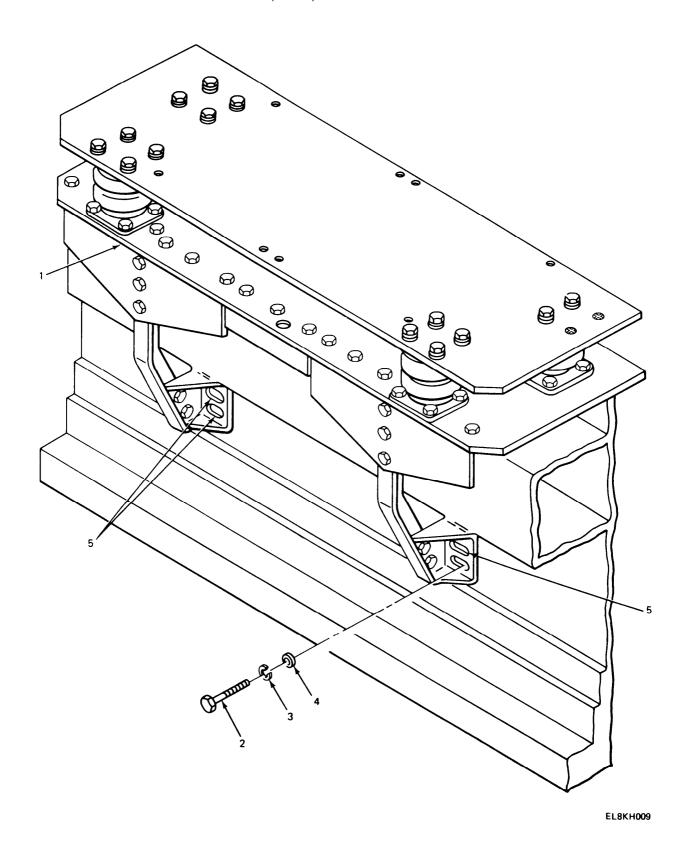
There are four screws. Thread screws halfway in to allow movement of mount assembly. Step 2 is typical for all four

screws.

3. Screw holes (5)

Do step 2 again.

4-10. INSTALLING MOUNT ASSEMBLY. (CONT)



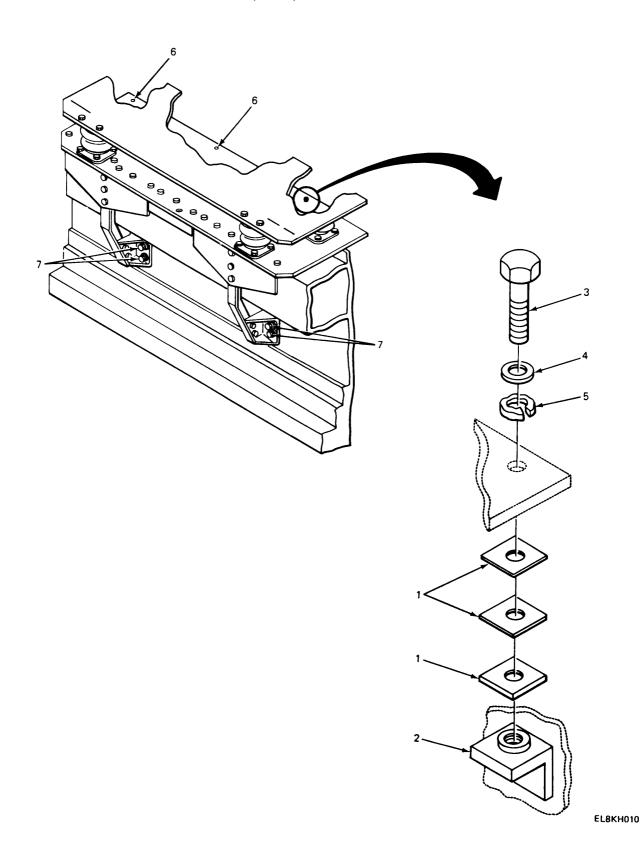
4-10. INSTALLING MOUNT ASSEMBLY. (CONT)

LOCATION ITEM	ACTION REMARKS
---------------	----------------

NOTE

	forward to inse	embly has to be level. Tilt mount assembly ort shims between three bottom plate support pottom plate assembly.
4. Curbside wall, behind	Shims (1)	Insert, aline holes. Use required amount of shims to level. Tape shims together to ease in installation. There are three bottom plate support brackets. Step 4 is typical for all three bottom plate support brackets.
5.	Support bracket (2)	Do step 4 again.
6.	Screw (3), flat washer (4) and spring lock- washer (5)	Install, hand tigthen. There are three screws. Step 6 is typical for all three screws.
7.	Screw holes (6)	Do step 6 again,
8.	Screw (3)	Using 9/16 inch box wrench, tighten. There are three screws. Step 8 is typical for all three screws.
9.		Do step 8 for remaining screws.
10.	Screw (7)	Using 3/4 inch box wrench, tighten. There are four screws. Step 10 is typical for all four screws.
11.		Do step 10 for remaining three screws.

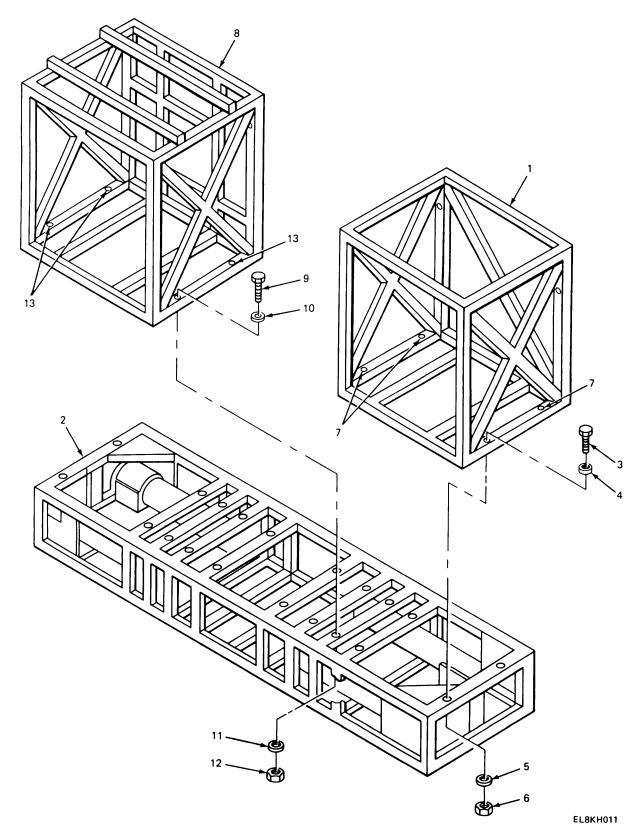
4-10. INSTALLING MOUNT ASSEMBLY. (CONT)



4-11. INSTALLING MESSAGE ENTRY GROUP (MEG) RACK AND ELECTRONIC LINE PRINTER (ELP) RACK TO ELECTRONIC EQUIPMENT TABLE.

This task covers:		
Installation		
INITIAL SETUP		
Tools		Material/Parts (Cont)
1/2 inch box wrench (2	2 required)	Electronic line printer rack Electronic equipment table
Materials/Parts 5/16-24 x 2 1/4 inch long hex head screw (8 required) 5/16-24 self-locking nut (8 required) 5/16 inch flat washer (16 required) Message entry group rack		Personnel Required One mechanic Equipment Condition Top and bottom plate assembly installed.
LOCATION	ITEM	ACTION REMARKS
1. Outside vehicle	ELP rack (1) and electronic equipment table (2)	Place ELP rack on table and aline holes.
2.	Screw (3), flat washer (4), flat washer (5) and nut (6)	Install, hand tighten. There are four screws. Step 2 is typical for all four screws.
3.	Screw holes (7)	Do step 2 again.
4.	MEG rack (8) and electronic equipment table (2)	Place MEG rack on table and aline holes.
5.	Screw (5), flat washer (10), flat washer (11) and nut (12)	Install, hand tighten. There are four screws. Step 5 is typical for all four screws.
6.	Screw holes (13)	Do step 5 again.
7.	Screws (3) and screws (9)	Using two 1/2 inch box wrenches, tighten.

4-11. INSTALLING MESSAGE ENTRY GROUP (MEG) RACK AND ELECTRONIC LINE PRINTER (ELP) RACK TO ELECTRONIC EQUIPMENT TABLE. (CONT)



4-12. INSTALLING WALL MOUNTING ASSEMBLY TO MEG RACK AND ELP RACK.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

1/2 inch box wrench One mechanic

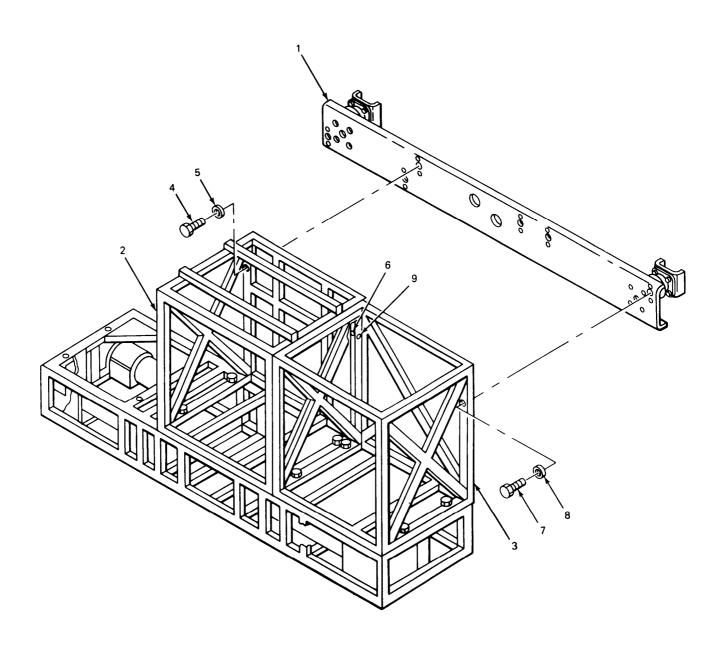
Materials/parts Equipment Condition

5/16-24 x 1 1/2 inch long hex head screw (4 required) 5/16 inch flat washer (4 required) Wall mounting assembly Message entry group rack Electronic line printer rack

Tandem cups installed on wall mounting assembly.

LOCATION	ITEM	ACTION REMARKS
1. Outside of vehicle	Wall mounting assembly (I), mes- sage entry group rack (2) and elec- tronic line printer rack (3)	Put wall mounting assembly across rear of message entry group rack and electronic line printer rack and aline holes.
Message Entry Group rack	Screw (4) and flat washer (5)	Install, hand tighten. There are two screws. Step 2 is typical for both screws.
3.	Screw hole (6)	Do step 2 again.
Electronic Line Printer rack	Screw (7) and flat washer (8)	Install, hand tighten. There are two screws. Step 4 is typical for both screws.
5.	Screw hole (9)	Do step 4 again.
6.	Screw (4) and screw (7)	Using 1/2 inch box wrench, tighten, There are four screws. Step 6 is typical for all four screws.

4-12. INSTALLING WALL MOUNTING ASSEMBLY TO MEG RACK AND ELP RACK. (CONT)



This task covers:

- 1. Preparation for welding
- 2. Welding

INITIAL SETUP

Tools

Felt tip pen 7/16 inch socket 3/8 inch drive ratchet wrench 3/8 inch drive x 6 inch long extension Electric grinder 1/2 inch box wrench (2 required)

Materials/parts

5/16-24 x 2 1/4 inch long hex head screw (4 required) Rack and wall mounting assembly Personnel Required

Two mechanics

Equipment Condition

Racks and wall mounting assembly installed on electronic equipment table.

LOCATION	ITEM	ACTION REMARKS	
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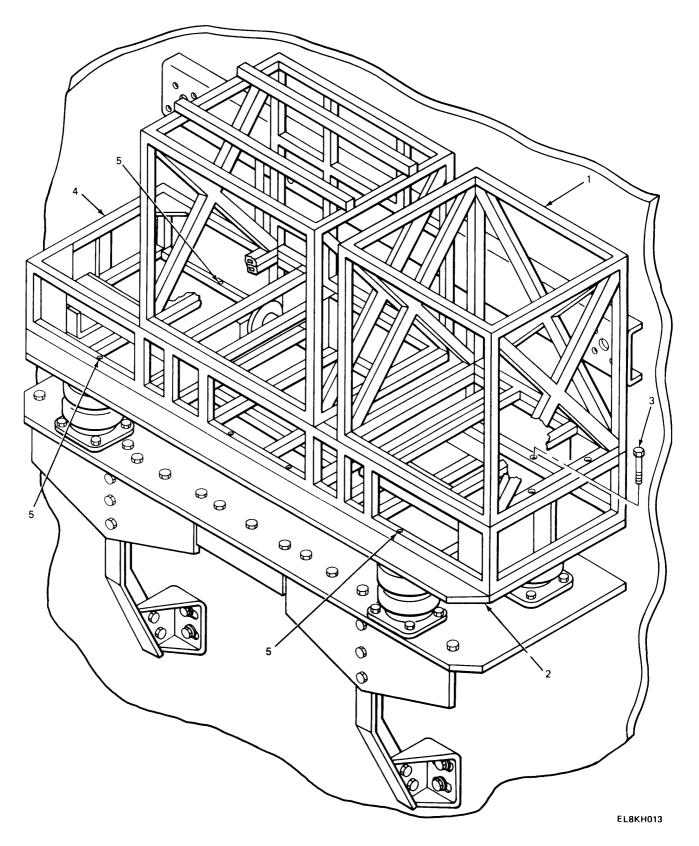
PREPARATION

WARNING

Before any grinding or welding is started, top off both fuel tanks and purge carrier interior of fumes.

A helper will be needed to lift and position rack assembly on top of top plate assembly.

Top plate assembly	Rack assembly (1) and top plate (2)	Place rack assembly on top of top plate and aline holes.
2.	Screw (3) and table (4)	Place screw in hole in table. There are four screws. Step 2 is typical for all four screws.
3.	Screw holes (5)	Do step 2 again.
4.	Table (4)	Push table toward curbside wall to allow screws to drop thru holes of top plate.



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PREPARATION (CONT)

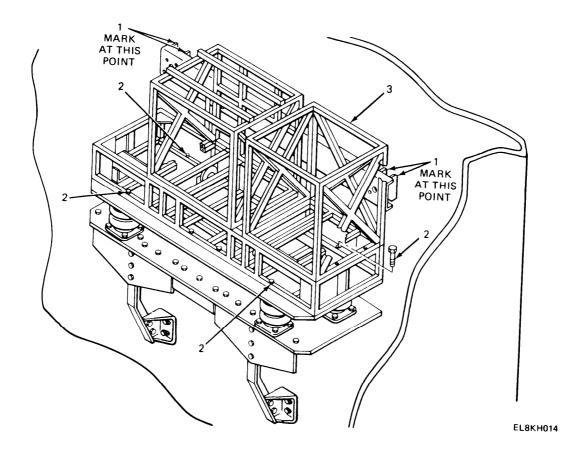
NOTE

Spacer assembly should be flush against curbside wall. If not, put shims between two halves of tandem cup mount assembly.

5. Where spacer assemblies touch wall
 6. Table
 Marks (1) Using felt tip pen, mark.
 Remove.

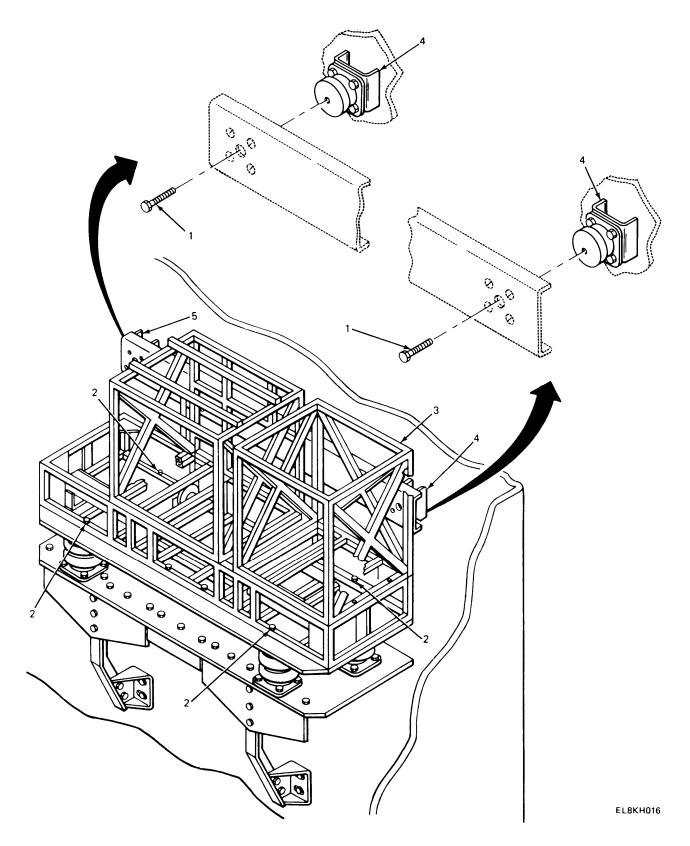
7. Top plate Rack assembly (3) Remove.

8. Curbside carrier Marked areas (1) Using electric grinder, grind marked area free of all paint.



	LOCATION	ITEM	ACTION REMARKS
WELD	DING		
1.	Top plate assembly	Rack assembly (1) and top plate (2)	Place rack assembly on top of top plate and aline holes.
2.		Screw (3) and table (4)	Place screw in hole and table. There are four screws. Step 2 is typical for all four screws.
3.		Screws (5)	Do step 2 for remaining three screws.
4.		Table (4)	Push table toward curbside wall to allow screws to drop thru into holes of top plate.
			CAUTION
		All weld	ing must be heli-arc, refer to TM 9-237.
5.	Where spacer assemblies touch wall	Spacers (6)	Tack weld both spacers to curbside carrier wall.
	5	5	

	LOCATION	ITEM	ACTION REMARKS
WEL	DING (CONT)		
6.	Wall mounting assembly	Screw (1)	Using 1/16 inch socket, ratchet wrench and extension, remove. There are two screws. Step 1 is typical for both screws.
7.		Screw (2)	Do step 1 again. Save.
8.	Table	Screws (3)	Remove.
9.	Top plate assembly	Rack assembly (4)	Remove.
10.	Curbside carrier wall	Spacer assemblies (5)	Complete welding.



4-14. INSTALLING RACK AND WALL MOUNTING ASSEMBLY.

This task covers:

Installation

INITIAL SETUP

Tools

7/16 inch socket
3/8 inch drive ratchet wrench
3/8 inch drive x 6 inch long extension
1/2 inch box wrench (2 required)

Materials/Parts

5/16-24 x 2 1/4 inch long hex head screw (8 required) 5/16 inch flat washer (16 required) 5/16-24 self-locking nut (8 required) Personnel Required

Two mechanics

Equipment Condition

Spacer assemblies welded to carrier wall.

LOCATION ITEM ACTION REMARKS

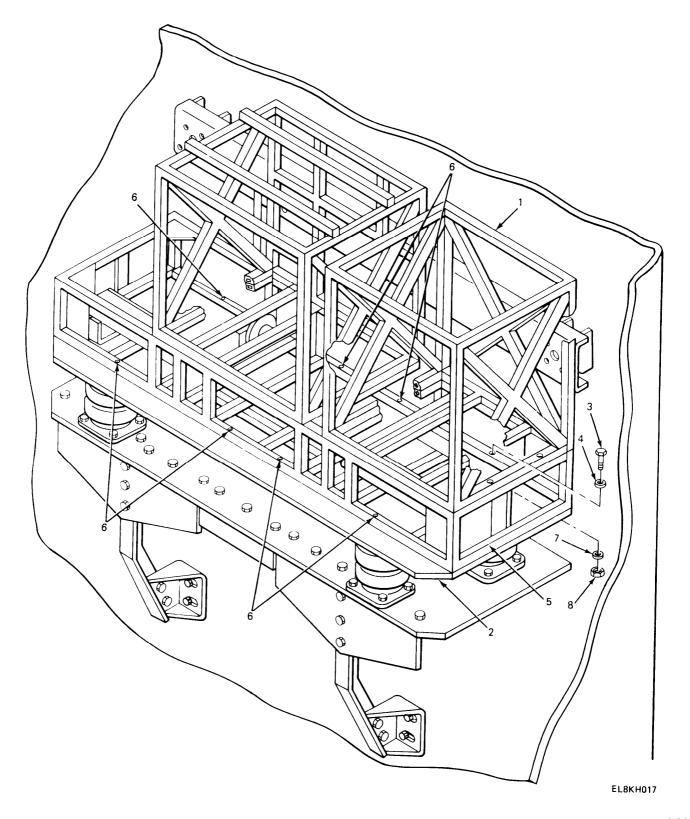
WARNING

A helper will be needed to lift and position assembly on top plate.

1.	Top plate assembly	Rack assembly (1) and top plate (2)	Place rack assembly on top of top plate and aline holes.
2.		Screw (3), flat washer (4) and table (5)	Place screw in hole in table. There are eight screws. Step 2 is typical for all eight screws.
3.		Holes (6)	Do step 2 again.
4.		Table (5)	Push table toward curbside wall to allow screws to drop thru holes of top plate.
5.		Flat washer (7) and nut (8)	Install. There are eight nuts. Step 5 is typical for all eight nuts.
6. -30			Do step 5 for remaining seven nuts.

4-30

4-14. INSTALLING RACK AND WALL MOUNTING ASSEMBLY. (CONT)

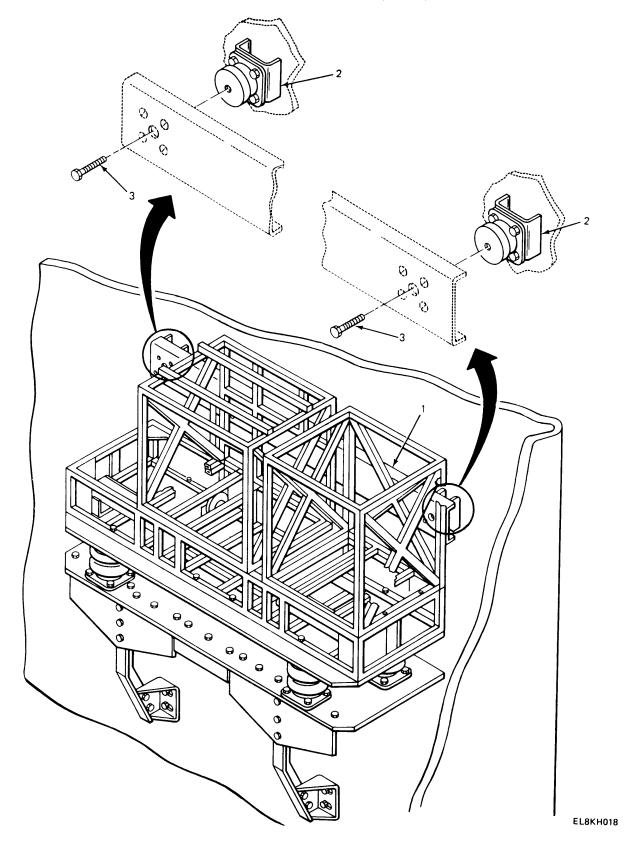


TM 11-7440-268-14

4-14. INSTALLING RACK AND WALL MOUNTING ASSEMBLY. (CONT)

LOCATION	ITEM	ACTION REMARKS
7. Curbside carrier wall	Wail mounting assembly (1) and spacer (2)	Aline.
8. Wall mounting assembly	Screw (3)	Install. There are two screws. Steps 7 and 8 are typical for both screws.
9.	Screw (4)	Do steps 7 and 8 again.

4-14. INSTALLING RACK AND WALL MOUNTING ASSEMBLY. (CONT)



4-15. INSTALLING KEY GENERATOR RACK TO ELECTRONIC EQUIPMENT TABLE AND WALL MOUNTING ASSEMBLY.

This task covers:

Installation

INITIAL SETUP

Tools Materials/parts (Cont)

1/2 inch box wrench
(2 required)

Hammer

Saved hardware from wall
mounting assembly

Materials/parts Personnel Required

5/16-24 x 2 1/4 inch long hex

head screw (4 required)

5/16 inch flat washer (8 required)

5/16-24 self-locking nut (4 required)

Pack and wall more

Key generator rack
Rack and wall mounting assembly installed.
See paragraph 4-15.

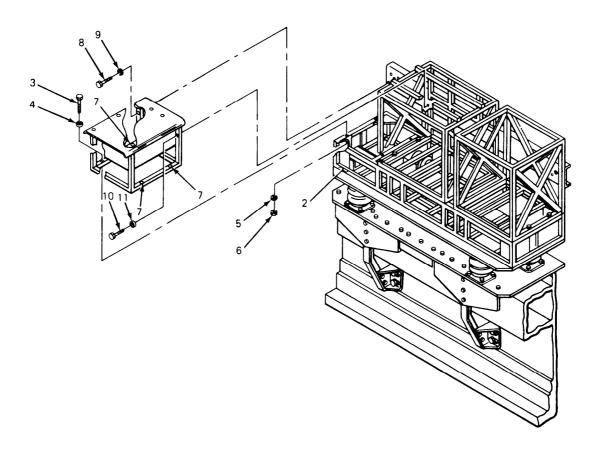
LOCATION	ITEM	ACTION REMARKS
1. Mount assembly	Key generator rack (1) and electronic equipment table (2)	Put key generator rack on top of electronic equipment table and aline holes.
2.	Screw (3), flat washer (4) flat washer (5) and nut (6)	Install, hand tighten. There are four screws. Step 2 is typical for all four screws.
3.	Screw holes (7)	Do step 2 again.
4. Wall mounting assembly	Screw (8) and flat washer (9)	Install, hand tighten.

NOTE

Misalinement can be corrected by striking corner of wall mounting assembly toward rear of vehicle.

4-15. INSTALLING KEY GENERATOR RACK TO ELECTRONIC EQUIPMENT TABLE AND WALL MOUNTING ASSEMBLY. (CONT)

LOCATION	ITEM	ACTION REMARKS
5.	Screw (10) and flat washer (11)	Install, hand tighten.
6. Mount assembly	Screw (3) and nut (6)	Using two 1/2 inch box wrenches, tighten. There are four screws. Step 6 is typical for all four screws.
7.		Do step 6 for remaining three screws.
8. Wall mounting assembly	Screw (8)	Using 1/2 inch box wrench, tighten.
9.	Screw (10)	Using 1/2 inch box wrench, tighten.



4 inch x 4 inch x 12 inch

Seat support assembly

wood block

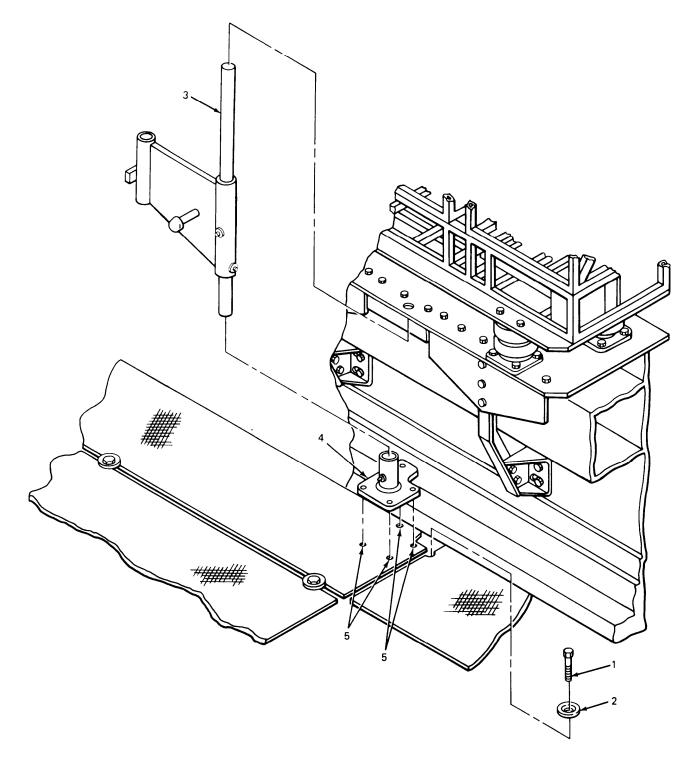
Seat

This task covers: Installation **INITIAL SETUP** Tools Materials/Parts (Cont) 3/4 inch box wrench 5/16 24 x 2 1/4 inch long hex 1/2 inch box wrench head screw (4 required) 5/16-24 self-locking nut (2 required) Center punch (4 required) Felt tip pen Flat tip screwdriver Personnel Required Electric drill 1/8 inch drill bit One mechanic Q-drill bit **Equipment Condition** Materials/Parts Mount assembly installed.

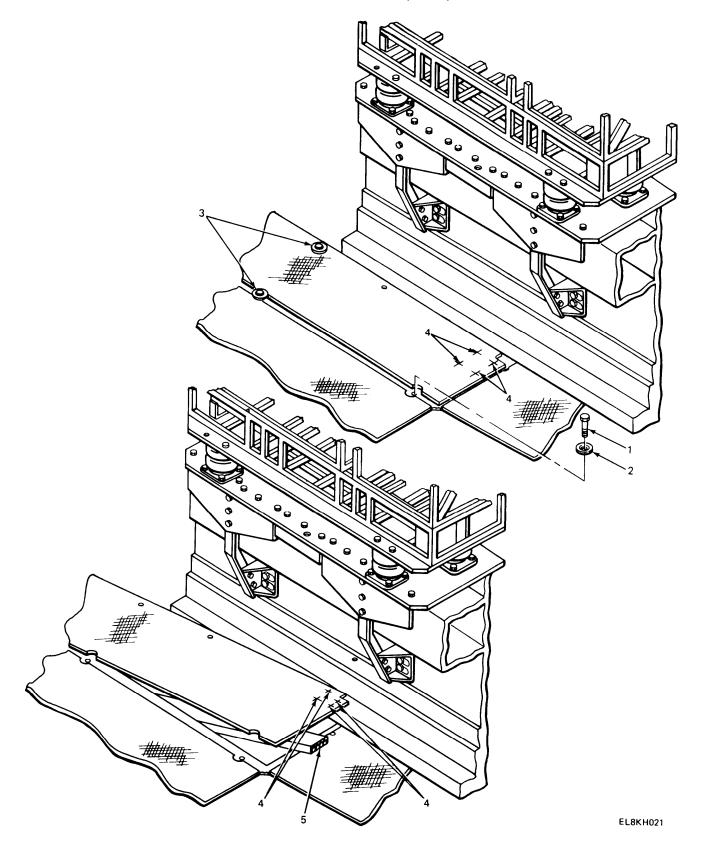
		ACTION	
LOCATION	ITEM	REMARKS	

See paragraph 4-10.

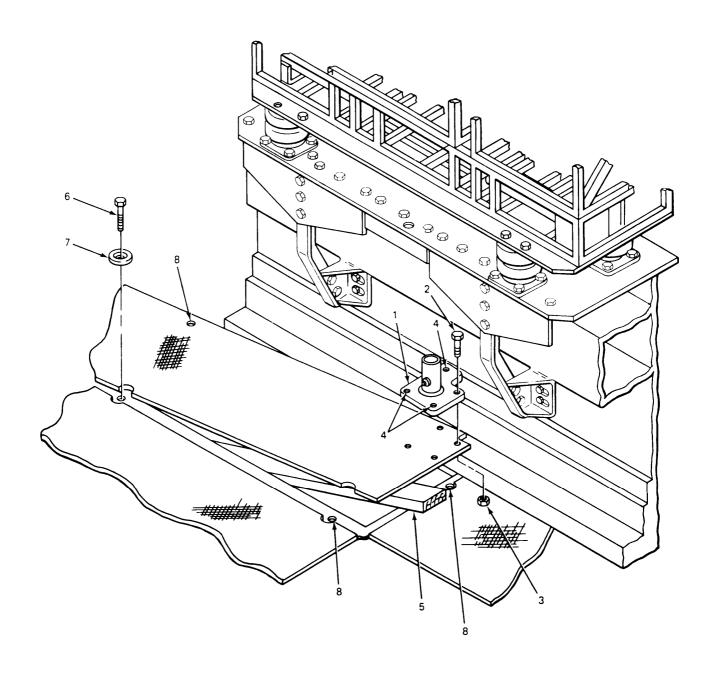
1. Floor plate	Screw (1) and flat washer (2)	Using 3/4 inch box wrench, remove. Save.
2. Bottom plate	Seat support assembly (3)	install. Put top of tube in hole in bottom plate.
3. Floor plate	Lower support (4)	Put on bottom of tube and place on floor plate. Make sure tube is straight and floor plate is flat and level.
4.	Lower support (4) and marks (5)	Using felt tip pen, mark. There are four holes to mark.
5.	Seat support assembly (3) and lower support (4)	Remove.



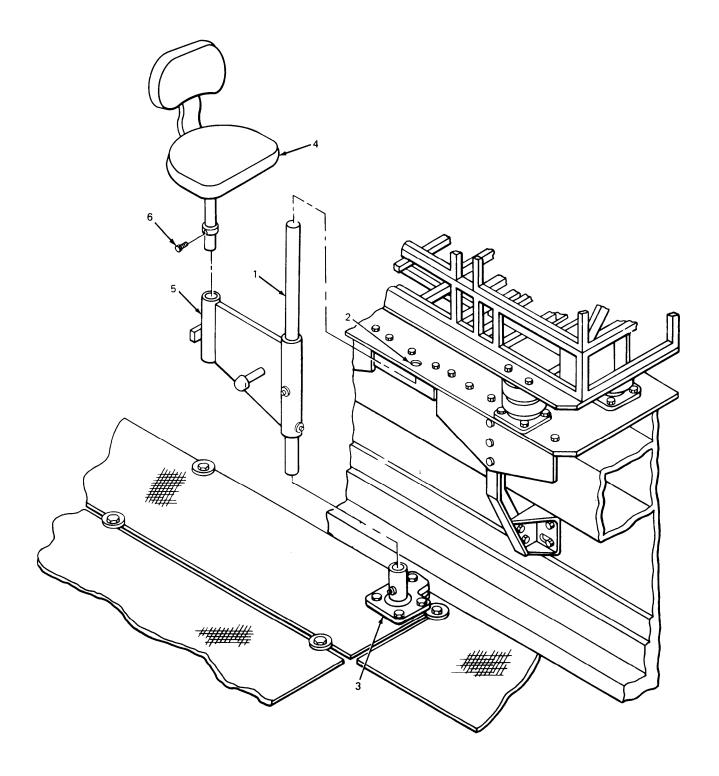
	LOCATION	ITEM	ACTION REMARKS
6. Flo	oor plate	Screw (1) and flat washer (2)	Using 3/4 inch box wrench, remove. There are three screws. Step 6 is typical for all three screws.
7.		Screws (3)	Do step 6 again.
8.		Marks (4)	Using center punch, punch.
9.		Wood block (5)	Raise edge of floor plate and install.
			CAUTION
			Care must be taken not to drill too deep as not to drill through hydraulic lines positioned under floor plate.
10.		Marks (4)	Using electric drill and 1/8 inch drill bit, drill.
11.		Marks (4)	Using electric drill and Q-drill bit, drill.



LOCATION	ITEM	ACTION REMARKS
12. Floor plate	Lower support (1)	Place on floor plate and aline holes.
13.	Screw (2), and nut (3)	Using two 1/2 inch box wrenches, install. There are four screws. Step 13 is typical for all four screws.
14.	Screw holes (4)	Do step 13 again.
15.	Wood block (5)	Remove. Throw away.
16.	Screw (6) and flat washer (7)	Using 3/4 inch box wrench, install. There are four screws. Step 16 is typical for all four screws.
17.	Screw holes (8)	Do step 16 again.



	LOCATION	ITEM	AC	TION REMARKS
18. Bo	ttom plate	Seat support assembly (1) and bottom plate hole (2)	Install.	Put top of tube in hole in bottom plate.
19. Flo	or plate	Lower support (3)	Install.	Put bottom of tube in floor plate. Secure with quick release pins.
	at support sembly	Seat (4) and support tube (5)	Install.	Place seat post in support tube.
21.		Screw (6)	Using	flat tip screwdriver, install,



4-17. INSTALLING 4 INCH GROUND STRAPS.

This task covers: Installation **INITIAL SETUP** Tools Personnel Required **Pliers** One mechanic Materials/Parts **Equipment Condition** Tacfire rack assembled. See No. 10-32 brass wingnut (12 required) No. 10 IT lockwasher (24 required) paragraphs 4-10 thru 4-14. Ground strap 4 inch (6 required) ACTION **ITEM REMARKS LOCATION**

NOTE

When wingnuts are tightened, hold ground strap from turning so it will not break.

Using pliers, install.

1. Upper studs on electronic

equipment racks

2. Lower studs on electronic equipment table IT lockwashers (I), ground strap

(2) and wing-

nut (3)

IT lockwashers (4), ground strap

(2) and wingnut (5)

Using pliers, install.

There are six ground straps.

Steps 1 and 2 are typical for all six.

Ground straps (6)

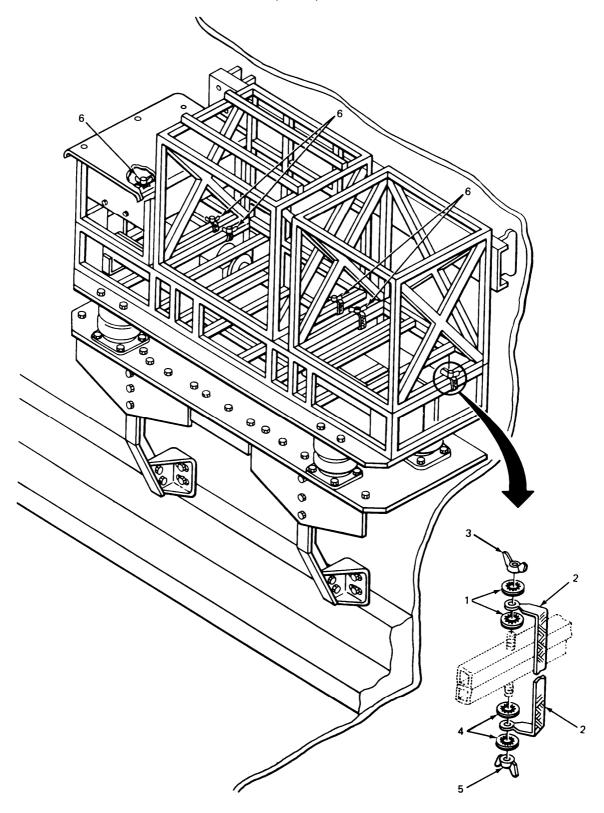
Do steps 1 and 2 for remaining five ground straps.

NOTE

Additional ground straps are required for properly grounding electronic equipment. Refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.

3.

4-17. INSTALLING 4 INCH GROUND STRAPS. (CONT)



4-18. INSTALLING ELECTRONIC LINE PRINTER SLIDING TRAY.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

9/16-inch box wrench One mechanic

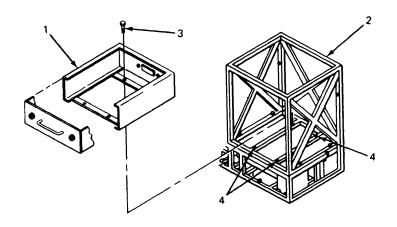
Materials/Parts Equipment Condition

ELP sliding tray 3/8-24 x 7/8 inch long hex head

screw (4 required)

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.

ELP rack installed.



4-19. INSTALLING TACFIRE COMPONENTS.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

Flat tip screwdriver Two mechanics

Materials/Parts Equipment Condition

Power Distribution Box J-3030/GSG-10(V) Electronic line printer Message entry group Key generator Tacfire rack installed. See paragraphs 4-10 thru 4-15.

LOCATION ITEM REMARKS

NOTE

A helper will be needed to lift and carefully slide tacfire components into place engaging shear pins on rear of racks. This is typical for steps 1 and 2.

 Electronic line printer rack Electronic line printer (1)

Install.

NOTE

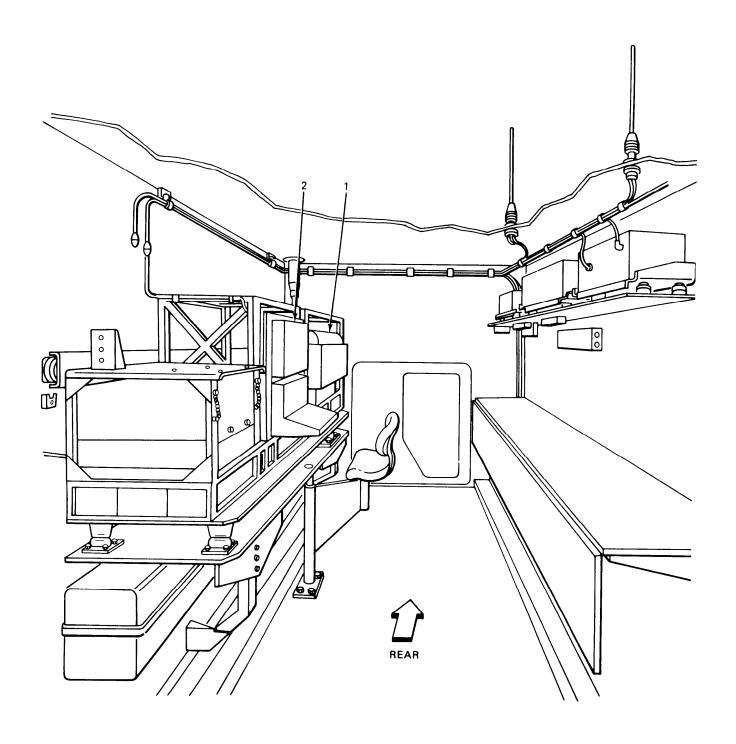
The electronic line printer is secured to an interface mounting base which is bolted to tapped holes in electronic line printer rack. This permits electronic line printer to slide in and out of rack.

2. Message entry group rack

Message entry group (2)

Install.

4-19. INSTALLING TACFIRE COMPONENTS. (CONT)

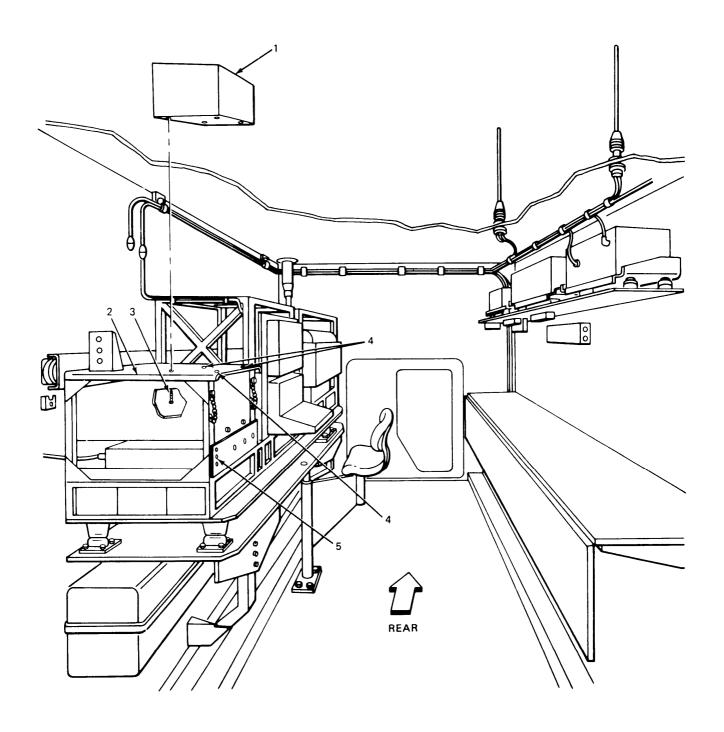


4-19. INSTALLING TACFIRE COMPONENTS. (CONT)

LOCATION	ITEM	ACTION REMARKS
3. Key generator rack	Key generator (1) and key generator rack (2)	Put key generator on top of key generator rack and aline holes.
4.	Screw (3)	Using flat tip screwdriver, install. There are four screws. Step 2 is typical for all four screws.
5.	Screw holes (4)	Do step 2 again.
Beneath storage pin on KG rack	Power distribution box J-3030 (5)	Mount and install. Slide into position and secure with captive screws.
		NOTE

For completion of electronic equipment installation, cabling, connector interface bracket and ground strap connections, refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.

4-19. INSTALLING TACFIRE COMPONENTS. (CONT)



4-20. INSTALLING 6 INCH AND 15 INCH GROUND STRAPS.

Installation

INITIAL SETUP

Tools

Flat tip screwdrive, 9/16 inch box wrench 1/2 inch box wrench (2 required) Pliers

Materials/parts

3/8-16 x I inch long pan head screw 3/8-16 nut 3/8 inch IT lockwasher (2 required) 5/16-24 x 3/4 inch long hex head screw 5/16-24 nut Materials/parts (Cont)

5/16 inch IET lockwasher (2 required)
Ground strap (6 inch)

Ground strap (6 inch) Ground strap (15 inch)

Personnel Required

One mechanic

Equipment Condition

Power distribution box installed. See paragraph 4-19.

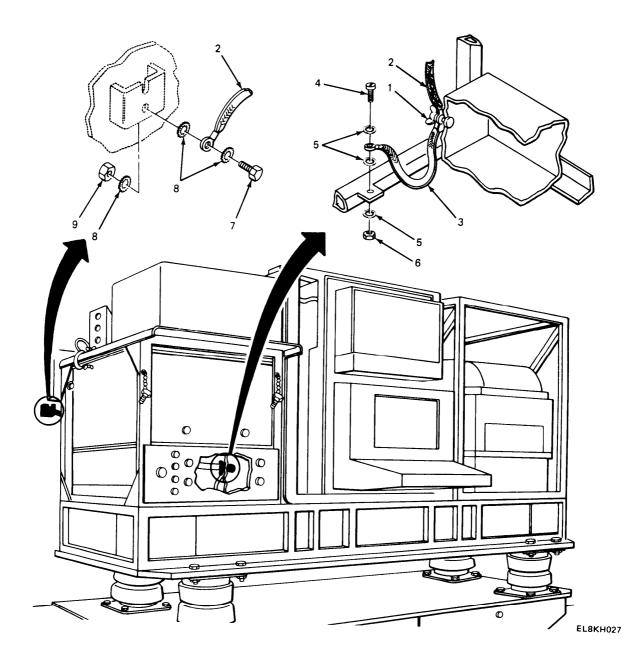
LOCATION	ITEM	ACTION REMARKS
Rear of power distribution box ground stud	Wingnut (1)	Using pliers, remove.
2.	15 inch ground strap (2), 6 inch ground strap (3), and wingnut (1)	Using pliers, install. Put one end of each ground strap on stud.
Rear of key generator rack	Screw (4), IT lock- washers (5), 6 inch ground strap (3) and nut (6)	Using flat tip screwdrive, and 9/16 inch box wrench, install.
4. Table support bracket	screw (7), IET lockwashers (8), 15 inch ground strap (2) and nut (9)	Using two 1/2 inch box wrenches, install.

4-20. INSTALLING 6 INCH AND 15 INCH GROUND STRAPS. (CONT)

		ACTION	
LOCATION	ITEM	REMARKS	

NOTE

Additional ground straps are required for properly grounding the electronic equipment. Refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.



4-21. INSTALLING W280 CABLE ASSEMBLY.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

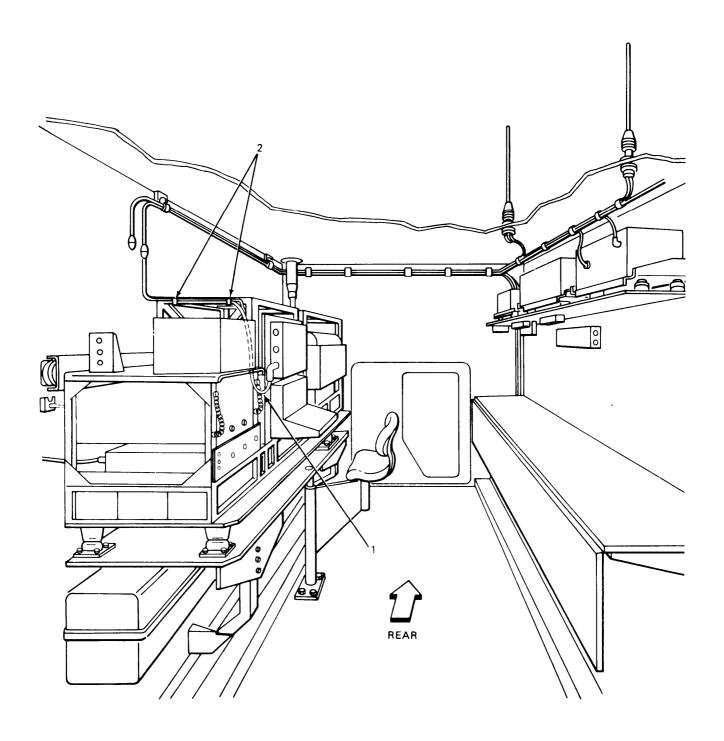
None One mechanic

Materials/Parts Equipment Condition

Nylon strap (as required) Tacfire components installed. See paragraph 4-19. (as required) Cable assembly W280

	LOCATION	ITEM	ACTION REMARKS
1.	Receptacle J6 on remote data terminal	Cable assembly W280 (1)	Connect 90 degree elbow end.
2.	Message entry group rack	Cable assembly W280 (1)	Route.
3.		Nylon straps (2)	Install using nylon and plastic straps to secure cable assembly as required.

4-21. INSTALLING W280 CABLE ASSEMBLY. (CONT)



EL8KH028

4-22. INSTALLING CX-13088/U AND CX-13050/U CABLE ASSEMBLY.

This task covers:

Installation

INITIAL SETUP

Tools Materials/Parts (Cont)

Flat tip screwdriver Cable Assembly CX-13088/U

(16 feet)

Materials/Parts

1/4-28 x 3/4 inch long hex head screw (2 required) One mechanic

1/4-28 nut (2 required) 1/4 inch IT lockwasher

(2 required) Cable support kit

Cable Assembly CX-13050/U

(16 feet)

1. Curbside, rear,

Equipment Condition

Personnel Required

Tacfire components installed.

See paragraph 4-19.

ACTION LOCATION **ITEM REMARKS**

Support

bracket (8)

NOTE

Use Cable Assembly CX-13050/U for single radio transmitter operation. Use Cable Assembly CX-13088/U when radio transmitters are used in retransmission mode.

Route and secure with nylon straps. Cable Assembly and roadside wall Secure to existing cables as CX-13050/U (1), needed. Cable Assembly CX-13088/U (2) and nylon straps (3) 2. Screw (4), cable Using flat tip screwdriver, install. clamp (5), IT There are two support brackets lockwasher (6) and to secure cables. Step 2 is nut (7) typical for both support brackets.

3.

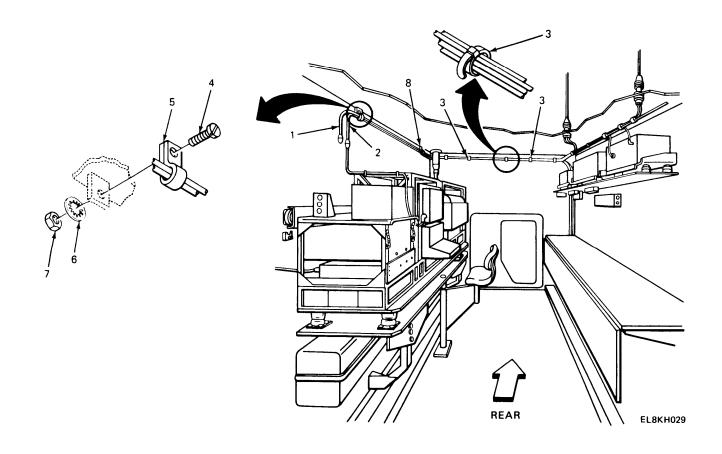
Do step 2 again.

4-22. INSTALLING CX-13088/U and CX-13050/U CABLE ASSEMBLY. (CONT)

LOCATION	ITEM	ACTION REMARKS	

NOTE

For cable connections refer to SB 11-131. When Cable Assembly CX-13088/U is used, connect one end to Cable Assembly W280. Other end connects to Radio Transmitter RT-524/VRC or 5 pin on C-2299. When Cable Assembly CX-13050/U is used, connect one end to W280 and othe end to J-511 or J-509 of AM-1780 or J-22 on MT-1029.



4-23. INSTALLING 15 FOOT CABLE ASSEMBLY.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

Wire cutters One mechanic Flat tip screwdriver

Equipment Condition Materials/Parts

Tacfire components installed.

Cable support kit Connector adapter Connector plug

Cable assembly (15 feet)

ACTION LOCATION ITEM REMARKS

NOTE

See paragraph 4-19.

Remove the two 3/8 inch terminal lugs on one end of 15 foot cable assembly. Install connector adapter and connector plug.

1. One end of 15 foot cable assembly

Terminal lugs (1)

Using wire cutters, remove.

Connector adapter
 (2) and connector

plug (3)

Using flat tip screwdriver, install.

NOTE

Route 15 foot cable assembly from Power Distribution Box J-3030/GSG-10(V) along curbside wall, to power receptacle located in roadside front corner of personnel compartment beneath radio shelf. Secure 15 foot cable assembly to existing wall brackets with cable support kit.

3. Curbside wall to forward wall

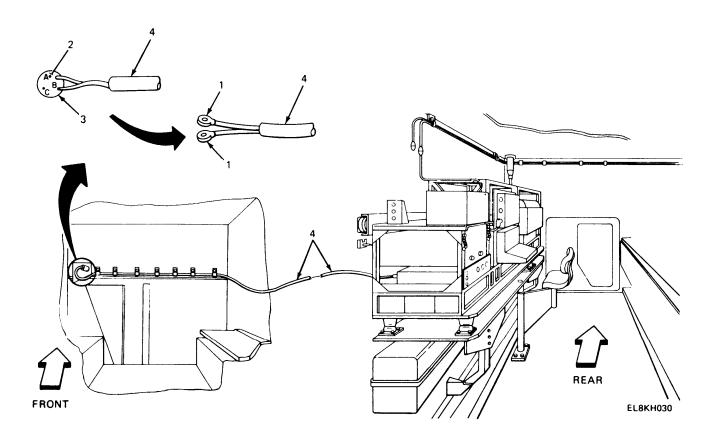
15 foot cable assembly (4)

Route and secure.

4-23. INSTALLING 15 FOOT CABLE ASSEMBLY. (CONT)

LOCATION	ITEM	ACT	ION Remarks
 Curbside wall to forward wall	15 foot cable assembly (4)	Install.	Use nylon straps to secure in position to existing support brackets.
			NOTE

Refer to TM 11-7440-251-10 and TM 11-7440-253-10-1 for 15 foot cable assembly connections.



4-24. INSTALLING SAFETY BAR.

This task covers:

Installation

INITIAL SETUP

Tools Personnel Required

9/16 inch box wrench One mechanic (2 required)

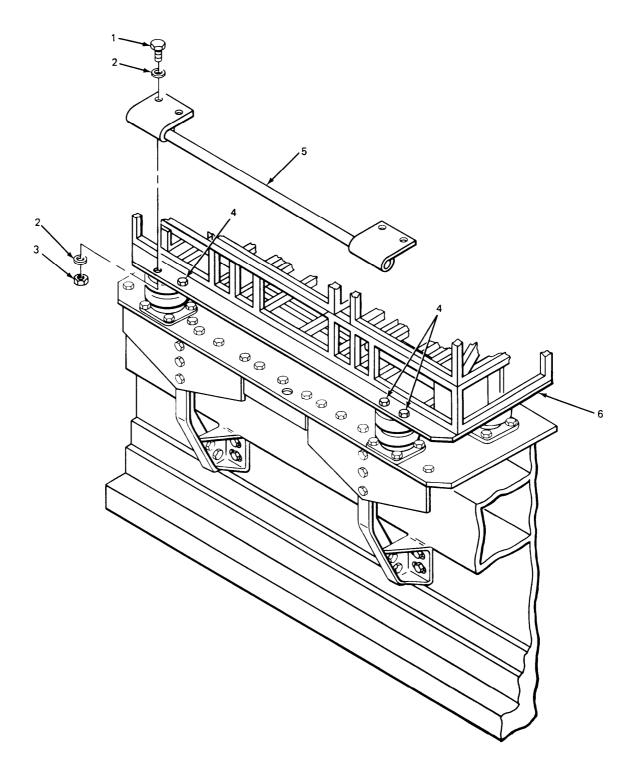
Materials/parts Equipment Condition

Safety bar

Mount assembly installed.
See paragraph 4-10.

LOCATION	ITEM	ACTION REMARKS
Curbside, top plate assembly	Screw (1), flat washers (2) and nut (3)	Using two 9/16 inch box wrenches, remove. There are four screws. Step 1 is typical for all four screws.
2.	Screws (4)	Do step 1 again.
3. Curbside	Safety bar (5) and mount assembly (6)	Put safety bar on mount assembly and aline holes.
4.	Screw (1), flat washers (2) and nut (3)	Install, hand tighten. There are four screws. Step 2 is typical for all four screws.
5.	Screw (4)	Do step 2 again.
6.	Screw (1) and nut (3)	Using two 9/16 inch box wrenches, tighten. There are four screws. Step 4 is typical for all four screws.
7.		Do step 2 for remaining three screws.

4-24. INSTALLING SAFETY BAR. (CONT)



EL8KH031

4-25. INSTALLING EXTERNAL GROUND ROD KIT.

This task covers:

- 1. Preparation
- 2. Installation

INITIAL SETUP

Tools Materials/Parts

8 lb. sledge hammer 3/8-16 x 1 1/4 inch long Hammer pan head screw
Flat tip screwdriver 3/8 inch lockwasher
9/16 inch box wrench (4 required)

Electric drill

1/8 inch drill bit

1/3/32 inch drill bit

Center punch

(10 quites)

3/8-16 nut

3/8-16 wingnut

Ground strap (10 ft)

Ground rod electrical clamp

Felt tip pen Ground rod (sectional)

Tape measure

Pliers Personnel Required

One mechanic

Equipment Condition

Vehicle non-mobile.

		ACTION	
LOCATION	ITEM	REMARKS	

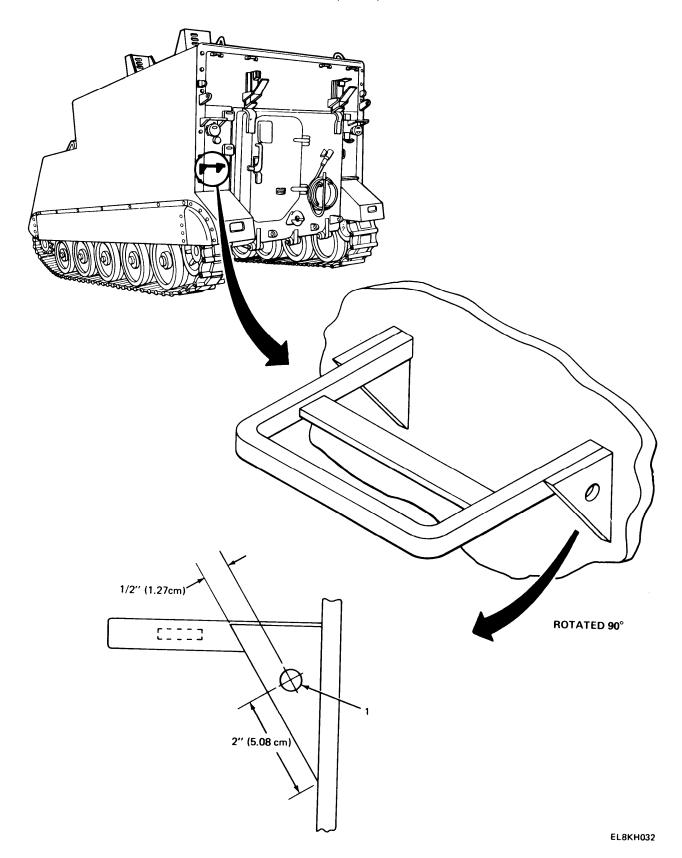
PREPARATION

NOTE

Measure a point 2 inches up from truck body, and 1/2 inch up parallel to step.

 Rear roadside, first step 	Mark (1)	Using felt tip pen, mark.
2.	Mark (1)	Using hammer and center punch, punch.
3.	Center punched mark (1)	Using 1/8 inch drill bit and electric drill, drill.
4.	Drilled hole (1)	Using 13/32 inch drill bit and electric drill, drill.

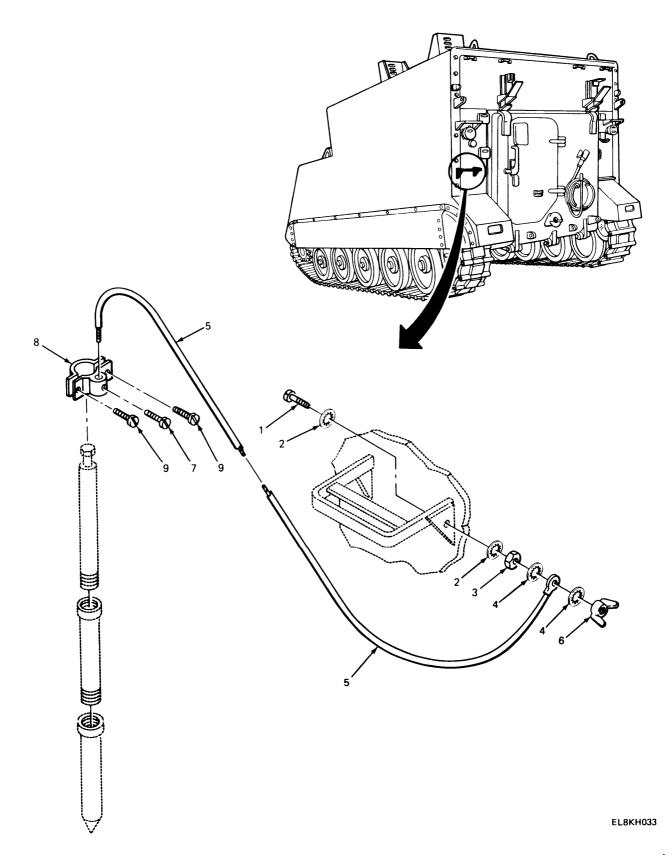
4-25. INSTALLING EXTERNAL GROUND ROD KIT. (CONT)



4-25. INSTALLING EXTERNAL GROUND ROD KIT. (CONT)

LOCATION	ITEM	ACTION REMARKS
INSTALLATION		
		NOTE
		ound rod is only used when vehicle is not ored in a canvas bag inside of vehicle.
 Rear roadside, curbside of first step 	Screw (1), lock- washers (2) and nut (3)	Using flat tip screwdriver and 9/16 inch box wrench, install.
2.	Lockwashers (4), ground strap (5) and wingnut (6)	Using pliers, install.
		NOTE
	and sledge ham	comes in three sections. Using driving stud, mer, drive one section into the ground at a ction is driven into the ground, couple next
3. Ground rod clamp	10 foot ground strap (5) and ground rod strap screw (7)	Using flat tip screwdriver, install.
4. Ground rod	Ground rod clamp (8) and screws (9)	Using flat tip screwdriver, install.

4-25. INSTALLING EXTERNAL GROUND ROD KIT. (CONT)



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, and equipment painting are not listed in (PMCS) table. You should do these checks and services daily or at any time you see they need be done.

Section V ORGANIZATIONAL TROUBLESHOOTING

No troubleshooting procedures for the Electronics Equipment Installation Kit MK-1531()/GSG-10(V) are given in this manual. For organizational troubleshooting procedures for the electronic equipment refer to manuals TM 11-7440-251-10 and TM 11-7440-253-10-1.

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 7440-253-10-1.

Section VII REMOVAL OF ELECTRONICS EQUIPMENT INSTALLATION $_{\mbox{KIT}}$ MK-1531()/GSG-10(V)

Subject	Para	Page
Removing Tacfire Components.	4-26	4-68
Removing Ground Straps, 4 Inch.	4-27	4-70
Removing Electronic Line Printer Sliding Tray	4-28	4-72
Removing/Installing Electronic Line Printer Rack	4-29	4-74
Removing/Installing Message Entry Group Rack	4-29 4-30	4-78
Removing/Installing Key Generator Rack	4-30 4-31	4-82
Removing/Installing Wall Mounting	4-31 4-32	4-86
Removing/Installing Wall Mounting Tandem Cup Assemblies	4-32 4-33	4-88
Removing Mount Assembly	4-33 4-34	4-90
Removing/Installing Electronic Equipment Table	4-34 4-35	4-92
Removing Top Plate Assembly		4-94
Removing/Installing Top Plate Tandem Cup Assemblies	4-36 4-37	4-94
Removing/Installing Bottom Plate Assembly	4-37 4-38	4-90
Removing/Installing Bottom Plate Assembly Lower Legs	4-36 4-39	4-100
Removing 15 Foot Cable Assembly		4-104
Removing/Installing 6 Inch Ground Strap	4-40	
		_
Removing W280 Cable Assembly	–	
Removing CX-13050/U/CX-13088/U Cable Assembly	_	
Removing/Installing Seat Support Assembly		
		_
	4-47	
Removing/Installing 6 Inch Ground Strap. Removing/Installing 15 Inch Ground Strap. Removing W280 Cable Assembly Removing CX-13050/U/CX-13088/U Cable Assembly Removing/Installing Seat Support Assembly Removing/Installing Safety Bar Removing External Ground Rod Kit	4-41 4-42 4-43 4-44 4-45 4-46 4-47	4-11 4-11 4-11 4-11 4-12 4-12

4-26. REMOVING TACFIRE COMPONENTS.

This task covers: Removal **INITIAL SETUP Tools** Personnel Required Flat-tip screwdriver Two mechanics Cross-tip screwdriver **Equipment Condition** Materials/parts All power off. None **ACTION** LOCATION **ITEM REMARKS** 1. Electronic line Electronic line Remove. printer rack printer (1) 2. Message entry Message entry Remove. group rack group (2) 3. Key generator Screws (3) Using flat-tip screwdriver, remove. rack 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 Lift front of tray up and pull tray out. tray (5) NOTE

For emergency removal do steps 3 and 5 only.

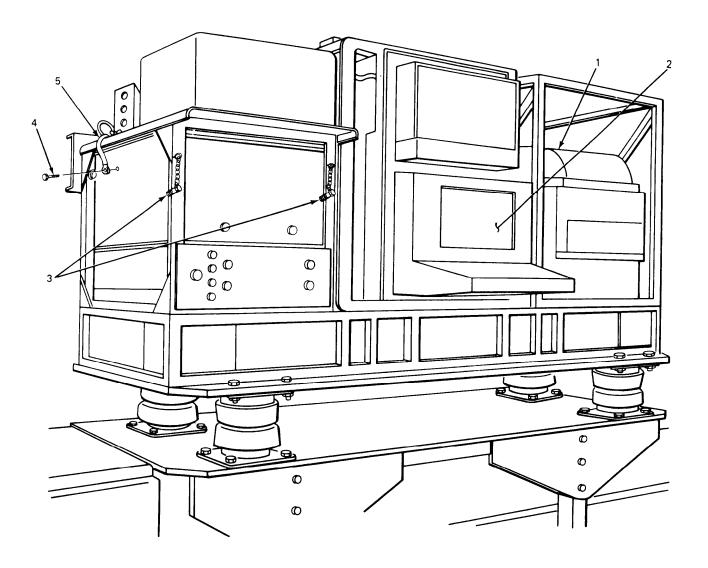
For completion of electronic equipment removal, refer to TM 11-7440-251-10 and TM 11-7440-253-10-1.

6. Tacfire racks

Tacfire components
(1), (2), (5)

See paragraph 4-19 for installation.

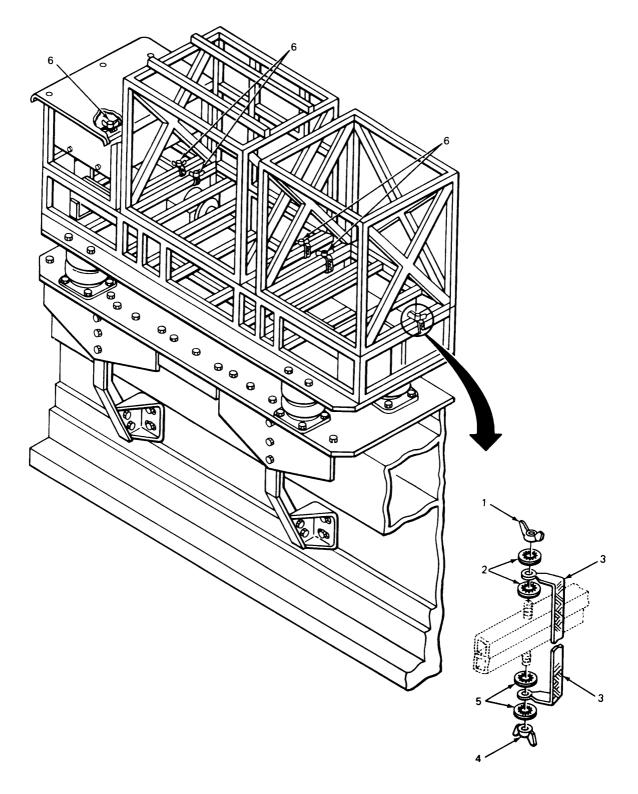
4-26. REMOVING TACFIRE COMPONENTS. (CONT)



4-27. REMOVING 4 INCH GROUND STRAPS.

This	task covers:		
Re	emoval		
INITI	AL SETUP		
То	ols		Personnel Required
	Pliers		One mechanic
Ma	aterials/Parts		Equipment Condition
	None		Tacfire components removed. See paragraph 4-26.
	LOCATION	ITEM	ACTION REMARKS
1.	Upper stud on electronic equipment racks	Wingnut (1), IT lockwashers (2) and ground strap (3)	Using pliers, remove.
2.	Lower stud on Electronic equip- ment table	Wingnut (4), IT lockwashers (5) and ground strap (3)	Using pliers, remove. There are six ground straps. Steps 1 and 2 are typical for all six ground straps.
3.	Tacfire rack	Ground straps (6)	Do steps 1 and 2 again for each ground strap. For storage, put hardware and ground straps in cloth bag, attach to rack and pack in original carton.
4.		Ground straps (6)	See paragraph 4-17 for installation.

4-27. REMOVING 4 INCH GROUND STRAPS. (CONT)



EL8KH035

4-28. REMOVING ELECTRONIC LINE PRINTER SLIDING TRAY.

This task covers:

Removal

INITIAL SETUP

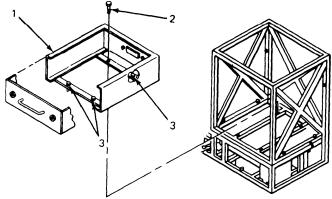
Tools Personnel Required

9/16-inch box wrench One mechanic

Materials/Parts Equipment Condition

None Tacfire components removed, see paragraph 4-26.

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 4-18 for installation.



4-72/(4-73 blank)

4-29. REMOVING/INSTALLING ELECTRONIC LINE PRINTER RACK.

This task covers:

- 1. Removal
- 2. Installation

INITIAL SETUP

Tools

1/2 inch box wrench (2 required)

Materials/Parts

Electronic line printer rack

Personnel Required

One mechanic

Equipment Condition

All power in vehicle off and electronic line printer removed. See paragraph 4-26. Ground straps removed. See paragraph 4-27.

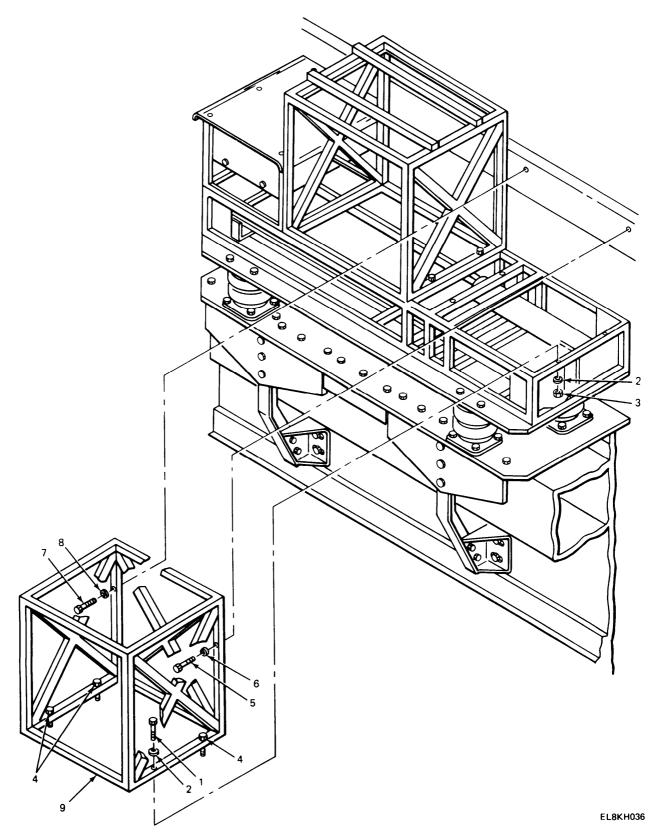
LOCATION	ITEM	ACTION REMARKS
REMOVAL		
 Lower rails of electronic line printer rack 	Screw (1), flat washers (2) and nut (3)	Using two 1/2 inch box wrenches, remove. There are four screws. Step 1 is typical for all four screws.

2. Screws (4) Do step 1 for remaining three screws. 3. Front curbside Screw (5) and flat Using 1/2 inch box wrench, remove. rail washer (6) 4. Rear curbside Screw (7) and flat Using 1/2 inch box wrench, remove. rail washers (8) 5. Tacfire rack Electronic line. Remove.

printer rack (9)

For storage, put hardware in cloth bag, attach to electronic line printer rack and store in original carton.

4-29. REMOVING/INSTALLING ELECTRONIC LINE PRINTER RACK. (CONT)



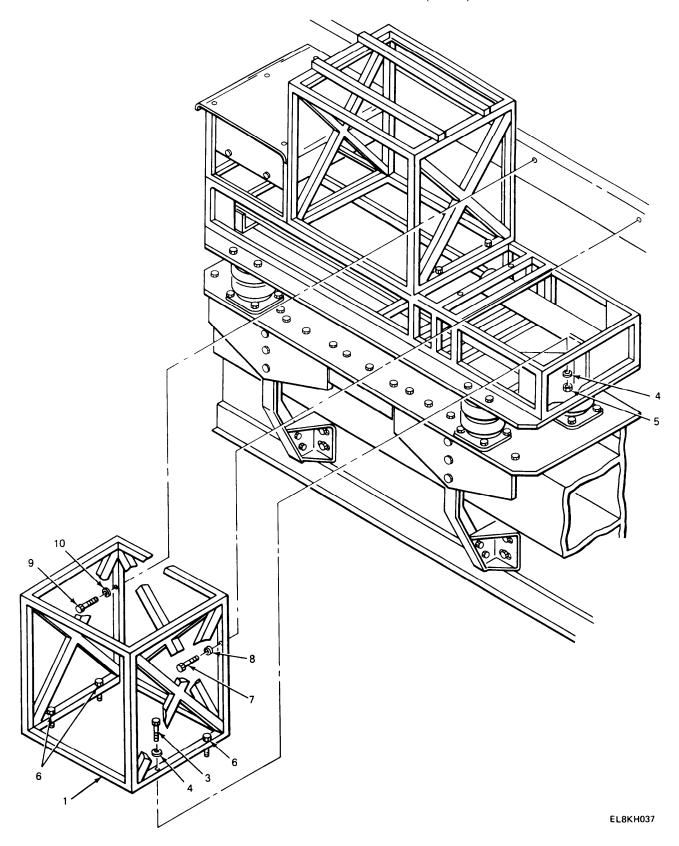
4-29. REMOVING/installing ELECTRONIC LINE PRINTER RACK. (CONT)

	ACTION	
LOCATION	ITEM	REMARKS
INSTALLATION		
Curbside rear of electronic equipment table	Electronic line printer rack (1) and electronic equipment table (2)	Put electronic line printer rack on electronic equipment table and aline holes.
Lower rails of electronic line printer rack	Screw (3), flat washers (4) and nut (5)	Install, hand tighten. There are four screws. Step 2 is typical for all four screws.
3.	Screw holes (6)	Do step 2 again.
4. Front curbside rails	Screw (7) and flat washer (8)	Install, hand tighten.
5. Rear curbside rails	Screw (9) and flat washer (10)	Install, hand tighten.
Lower rails of electronic line printer rack	Screw (3) and nut (5)	Using two 1/2 inch box wrenches, tighten. There are four screws. Step 6 is typical for all four screws.
7.		Do step 6 for remaining three screws.
8. Front curbside rail	Screw (7)	Using 1/2 inch box wrench, tighten.
9. Rear curbside rail	Screw (9)	Using 1/2 inch box wrench, tighten.

NOTE

See paragraph 4-17 for installation of 4 inch ground straps. See paragraph 4-19 for installation of electronic line printer.

4.29. REMOVING/INSTALLING ELECTRONIC LINE PRINTER RACK. (CONT)



4-30. REMOVING/INSTALLING MESSAGE ENTRY GROUP RACK.

This task covers:

- 1. Removal
- 2. Installation

INITIAL SETUP

Tools

1/2 inch box wrench (2 required)

Materials/parts

Message entry group rack

Personnel Required

One mechanic

Equipment Condition

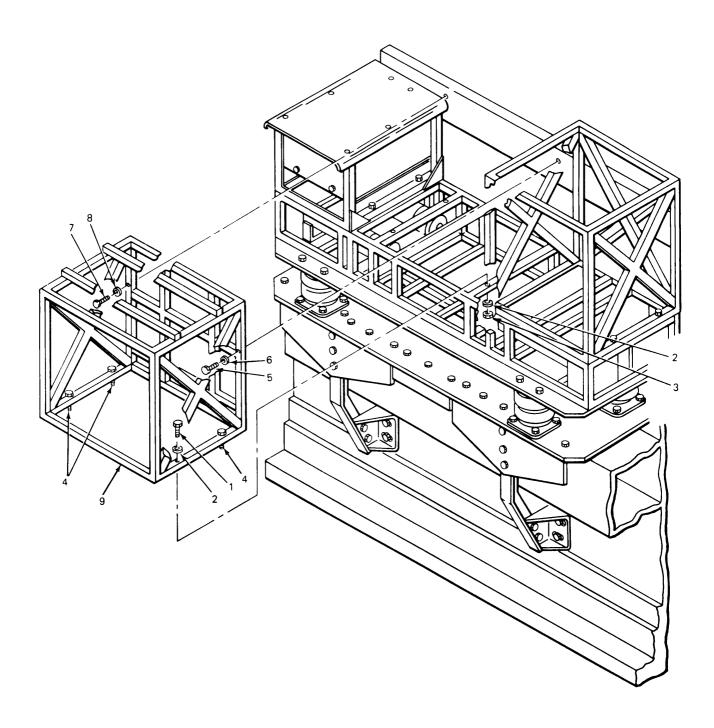
All power in vehicle off. Message entry group and 4 inch ground straps removed. See paragraphs 4-30 and 4-27.

LOCATION	ITEM	ACTION REMARKS	
----------	------	--------------------------	--

REMOVAL

Lower rails of message entry group rack	Screw (1), flat washers (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 for remaining three screws.
Front curbside rail	Screw (5) and flat washer (6)	Using 1/2 inch box wrench, remove.
Rear curbside rail	Screw (7) and flat washer (8)	Using 1/2 inch box wrench, remove.
5. Tacfire rack	Message entry group rack (9)	Remove. For storage, put hardware in cloth bag, attach to message entry group rack and store in original carton.

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



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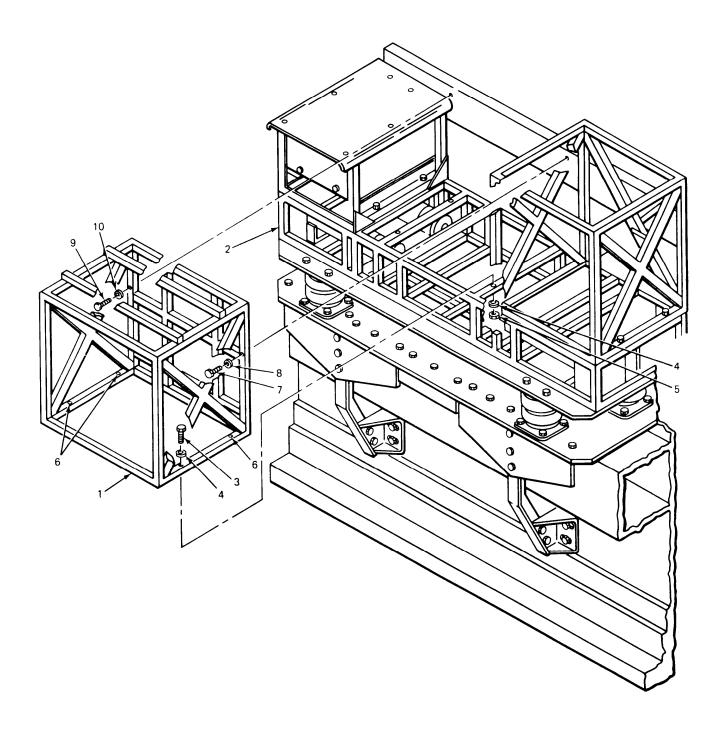
4-30. REMOVING/INSTALLING MESSAGE ENTRY GROUP RACK. (CONT)

	LOCATION	ITEM	ACTION REMARKS
INSTA	ALLATION		
1.	Center position on electronic equipment table	Message entry group rack (1), and electronic equipment table (2)	Put message entry group rack on electronic equipment table and aline holes.
2.	Lower rails on message entry group rack	Screw (3), flat washers (4) and nut (5)	Install hand tighten. There are four screws. Step 2 is typical for all four screws.
3.		Screw holes (6)	Do step 2 for remaining three screws.
4.	Front curbside rail	Screw (7) and flat washer (8)	Install, hand tighten.
5.	Rear curbside rail	Screw (9) and flat washer (10)	Install, hand tighten.
6.	Lower rails on message entry group rack	Screw (3) and nut (5)	Using two 1/2 inch box wrenches, tighten. There are four screws. Step 6 is typical for all four screws.
7.			Do step 6 for remaining three screws.
8.	Front curbside rail	Screw (7)	Using 1/2 inch box wrench, tighten.
9.	Rear curbside rail	Screw (9)	Using 1/2 inch box wrench, tighten.

NOTE

See paragraph 4-27 for installation of 4 inch ground straps. See paragraph 4-30 for installation of message entry group rack.

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



EL8KH039

4-31. REMOVING/INSTALLING KEY GENERATOR RACK.

This task covers:

- 1. Removal
- 2. Installation

INITIAL SETUP

Tools Personnel Required

Flat tip screwdriver 1/2 inch box wrench (2 required) 9/16 inch wrench

Equipment Condition

One mechanic

All power in vehicle off.

Materials/Parts

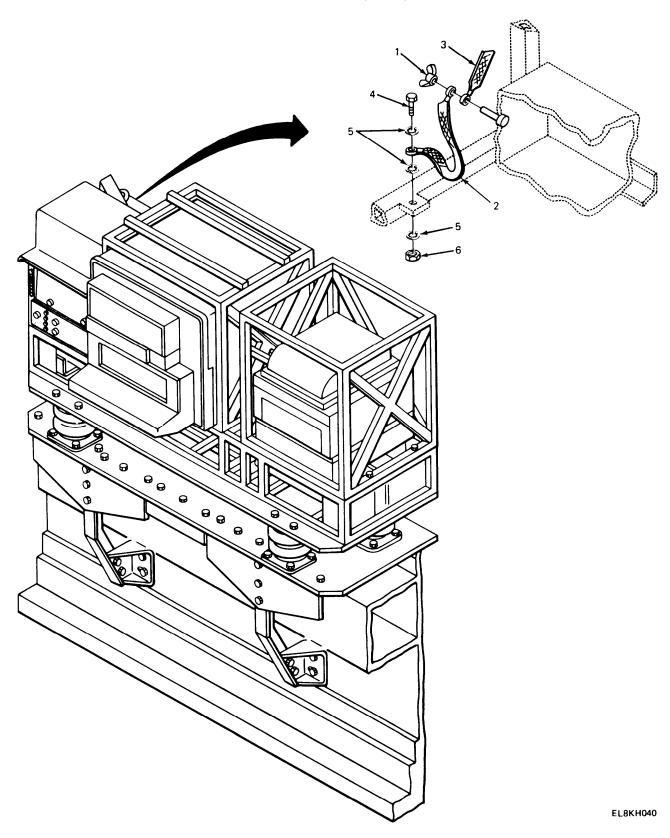
Key generator rack

LOCATION	ITEM	ACTION REMARKS
REMOVAL		
Rear of power distribution box	Wingnut (1), 6 inch ground strap (2) and 15 inch ground strap (3)	Using pliers, remove.
Key Generator rack	Screw (4), IT lockwashers (5), nut (6) and 6 inch ground strap (2)	Using flat tip screwdriver and 9/16 inch box wrench, remove.

NOTE

See paragraph 4-26 for removal of key generator and power distribution box. See paragraph 4-27 for removal of 4 inch ground straps.

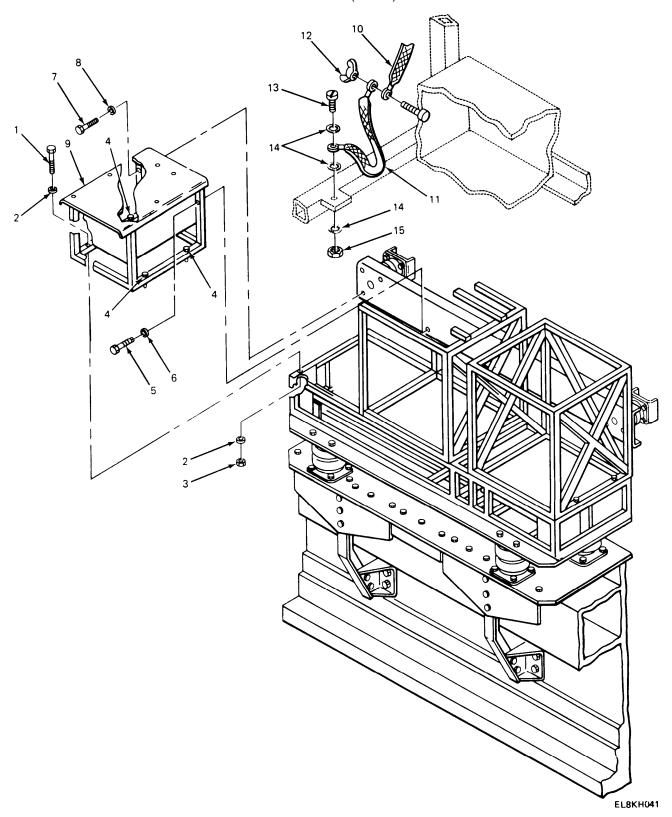
4-31. REMOVING/INSTALLING KEY GENERATOR RACK. (CONT)



4-31. REMOVNG/INSTALLING KEY GENERATOR RACK. (CONT)

	LOCATION	ITEM	ACTION REMARKS
REMO	OVAL (CONT)		
3.	Front curbside of electronic equipment table	Screw (1), flat washers (2) and nut (3)	Using two 1/2 inch box wrenches, remove. There are four screws. Step 1 is typical for all four screws.
4.		Screws (4)	Do step 3 for remaining three screws.
5.	Front curbside rail	Screw (5) and flat washer (6)	Using 1/2 inch box wrench, remove.
6.	Rear curbside rail	Screw (7) and flat washer (8)	Using 1/2 inch box wrench, remove.
7.	Tacfire rack	Key generator rack (9)	Remove. For storage, put hardware in cloth bag, attach to key generator rack and store in original carton.
INST	ALLATION		
1.	Tacfire rack	Key generator rack (9)	See paragraph 4-15 for installation.
			NOTE
			-17 for installation of 4 inch ground strap. -19 for installation of key generator and n box.
2.	Rear of power distribution box	15 inch ground strap (10), 6 inch ground strap (11) and wing-nut (12)	Using pliers, install.
3.	Key Generator rack	Screw (13), IT lockwashers (14), 6 inch ground strap (11) and nut (15)	Using flat tip screwdriver and 9/16 inch box wrench, install.

4-31. REMOVING/INSTALLING KEY GENERATOR RACK. (CONT)



4-32. REMOVING/INSTALLATION WALL MOUNTING.

This task covers:

- 1. Removal
- 2. Installation

INITIAL SETUP

Tools

Flat tip screwdriver

Materials/Parts

Wall mounting

Personnel Required

One mechanic

Equipment Condition

Tacfire components removed. See paragraph 4-26.4 inch ground straps removed. See paragraph 4-27. Electronic equipment racks removed. See paragraphs

4-29, 4-30, 4-31.

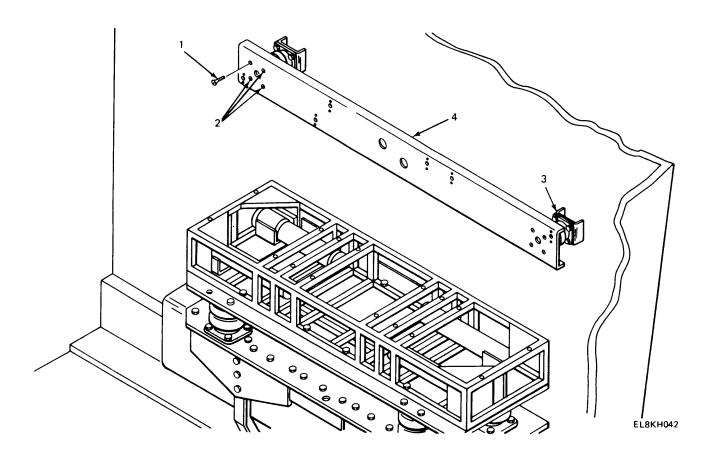
LOCATIO	N ITEM	ACTION REMARKS
REMOVAL		
1. Wall mounting	Screw (1)	Using flat tip screwdriver, remove. There are four screws per tandem cup. Step 1 is typical for all four screws.
2.	Screw holes (2)	Do step 1 again.
3.	Tandem cup assembly (3)	Do steps 1 and 2 again.
4. Tandem cups	Wall mounting (4)	Remove. For storage, put hardware in cloth bag, attach to wall mounting and store in original carton.
INSTALLATION		
1. Curbside wall	Wall mounting (4) and tandem cup assembly (3)	Put wall mounting on tandem cup assembly and aline holes.

4-32. REMOVING/INSTALLING WALL MOUNTING. (CONT)

LOCATION	ITEM	ACTION REMARKS
INSTALLATION (CONT)		
2. Curbside wall	Screw (1)	Using flat tip screwdriver, install. There are four screws per tandem cup assembly. Step 1 is typical for all four screws.
3.	Screws (2)	Do step 1 for remaining three screws.
4.	Tandem cup assembly (3)	Do step 1 and 2 again.

NOTE

See paragraphs 4-29, 4-30, 4-31 for installation of electronic equipment racks.



4-33. REMOVING/INSTALLING WALL MOUNTING TANDEM CUP ASSEMBLIES.

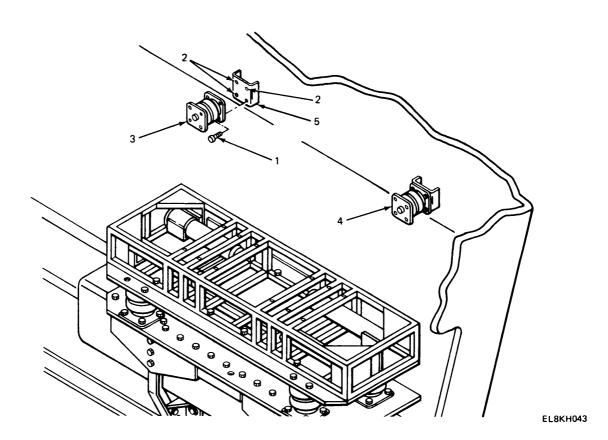
This task covers:		
Removal Installation		
INITIAL SETUP		
Tools		Personnel Required
1/2 inch box wrench		One mechanic
Materials/Parts		Equipment Condition
Tandem cup assembly		Wall mounting removed. See paragraph 4-32.
LOCATION	ITEM	ACTION REMARKS
REMOVAL		
1. Curbside wall	Screw (1)	Using 1/2 inch box wrench, remove. There are four screws. Step 1 is typical for all four screws.
2.	Screws (2)	Do step 1 for remaining three screws.
3.	Tandem cup assembly (3)	Remove.
4.	Tandem cup assembly (4)	Do steps 1 thru 3 again. For storage, put hardware in cloth bag, attach to tandem cup assembly and store in original carton.
INSTALLATION		
1. Curbside wall	Tandem cup	Put tandem cup assembly over spacer assembly and aline holes.
	assembly (3) and spacer assembly (5)	assembly and aime notes.
2.	Screw (1)	Using 1/2 inch box wrench, install. There are four screws. Step 2 is typical for all four screws.
3.	Screws (2)	Do step 2 for remaining three screws.
4-88		

4-33. REMOVING/INSTALLING WALL MOUNTING TANDEM CUP ASSEMBLY. (CONT)

LOCATION	ITEM	ACTION REMARKS	
INSTALLATION (CONT)			
4.	Tandem cup assembly (4)	Do steps 1 thru 3 again.	

NOTE

See paragraph 4-32 for installation of wall mounting.



4-89

4-34. REMOVING MOUNT ASSEMBLY.

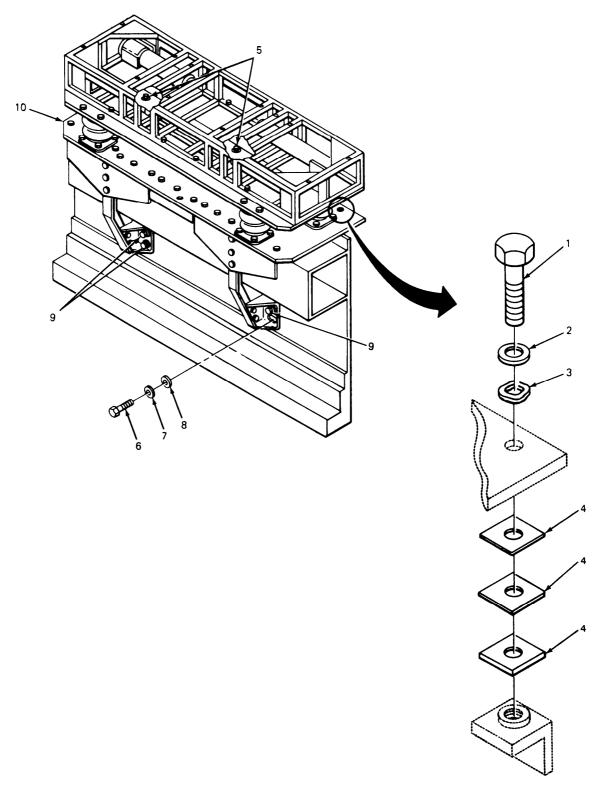
This task covers: Removal **INITIAL SETUP** Tools Personnel Required 9/16 inch box wrench Two mechanics 3/4 inch box wrench **Equipment Condition** Materials/parts Electronic equipment racks removed. Mount assembly See paragraphs 4-29, 4-30, 4-31. **ACTION** LOCATION **ITEM REMARKS WARNING** The mount assembly requires two mechanics to lift and remove.

Curbside support brackets	Screw (1), flat washer (2), spring lockwasher (3) and shims (4)	Using 9/16 inch box wrench, remove. There are three screws. Step 1 is typical for all three screws.
2.	Screws (5)	Do step 1 for remaining screws.
Lower curbside wall under fuel tank	Screw (6), spring lockwasher (7) and flat washer (8)	Using 3/4 inch box wrench, remove. There are four screws. Step 3 is typical for all four screws.
4.	Screws (9)	Do step 3 for remaining three screws.
5. Curbside	Mount assembly (10)	Remove.
6.	Mount assembly (10)	See paragraph 4-10 for installation.

NOTE

See paragraphs 4-29, 4-30, 4-31 for installation of electronic equipment racks.

4-34. REMOVING MOUNT ASSEMBLY. (CONT)



4-35. REMOVING/INSTALLNG ELECTRONICS EQUIPMENT TABLE.

Screws (4)

This task covers: 1. Removal 2. Installation **INITIAL SETUP** Tools Personnel Required 1/2 inch box wrench (2 required) One mechanic Materials/Parts **Equipment Condition** Electronic equipment table Mount assembly removed. See paragraph 4-34. **ACTION LOCATION ITEM REMARKS REMOVAL** 1. Lower rails Screw (1), flat Using two 1/2 inch box wrenches, remove. of electronic washers (2) and There are eight screws. Step 1 is typical for all eight screws. equipment table nut (3) 2. Screws (4) Do step 1 for remaining seven screws. 3. Electronic equip-Remove. ment table (5) For storage, put hardware in cloth bag, attach to electronic equipment table and store in original carton. **INSTALLATION** 1. Top plate Put electronic equipment table on top of Electronic equipassemble top plate assembly and aline holes. ment table (5) and top plate assembly (6) 2. Lower rails Screw (1), flat Install, hand tighten. of electronic washers (2) and There are eight screws. Step 2 is equipment table nut (3) typical for all eight screws.

Do step 2 for remaining seven screws.

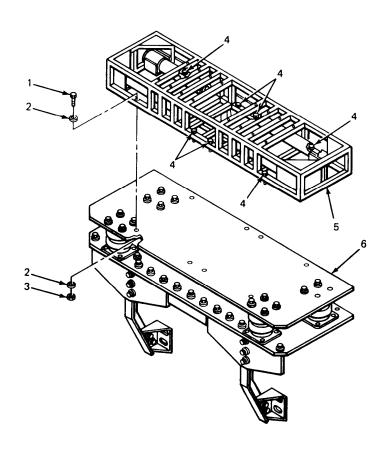
3.

4-35. REMOVING/INSTALLING ELECTRONICS EQUIPMENT TABLE. (CONT)

LOCATION	ITEM	ACTION REMARKS
INSTALLATION (CONT) 4. Lower rails of electronic equipment table	Screw (1) and nut (3)	Using two 1/2 inch box wrenches, tighten. There are eight screws. Step 4 is typical for all eight screws.
5.	Screws (1) and nuts (3)	Do step 4 for remaining seven screws.

NOTE

See paragraph 4-34 for installation of mount assembly. See paragraph 4-29, 4-30, 4-31 for installation of electronic equipment racks.



4-36. REMOVING TOP PLATE ASSEMBLY.

This task covers:

Removal

INITIAL SETUP

Tools

9/16 inch box wrench (2 required)

Materials/Parts

Top plate assembly

Personnel Required

Two mechanics

Equipment Condition

Mount assembly removed. See paragraph 4-34. Electronic equipment table removed. See

paragraph 4-35.

ACTION LOCATION ITEM REMARKS

WARNING

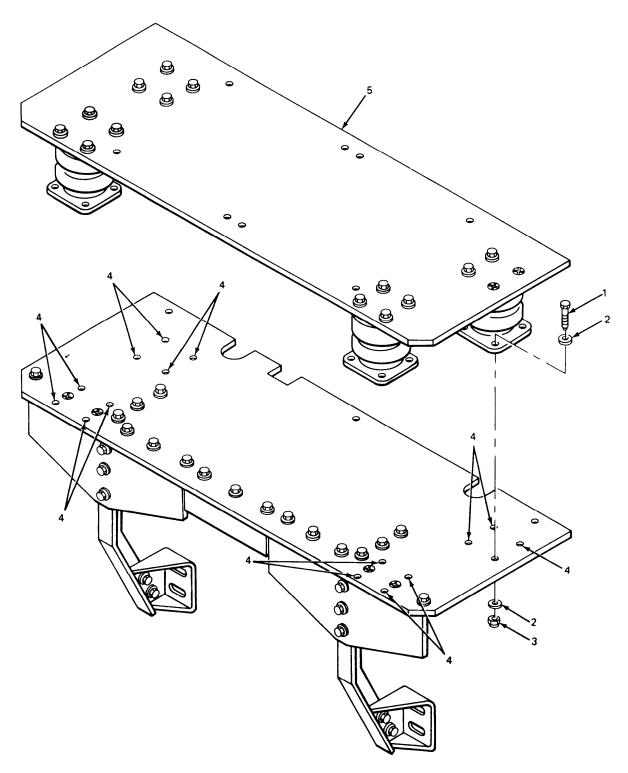
A helper will be needed to lift top plate assembly

1. Mount assembly	Screw (1), flat washers (2) and nut (3)	Using two 9/16 inch box wrenches, remove. There are sixteen screws. Step 1 is typical for all sixteen screws.
2.	Screws (4)	Do step 1 for remaining fifteen screws.
3.	Top plate assembly (5)	Remove.
4.	Top plate assembly (5)	See paragraph 4-9 for installation of top plate assembly.

NOTE

See paragraph 4-35 for installation of electronic equipment table.

4-36. REMOVING TOP PLATE ASSEMBLY. (CONT)



4-37. REMOVING/INSTALLING TOP PLATE TANDEM CUP ASSEMBLIES.

This task covers:

- 1. Removal
- 2. Installation

INITIAL SETUP

Tools Personnel Required

Cross tip screwdriver 9/16 inch box wrench (2 required)

Materials/Parts Equipment Condition

Tandem cup assemblies

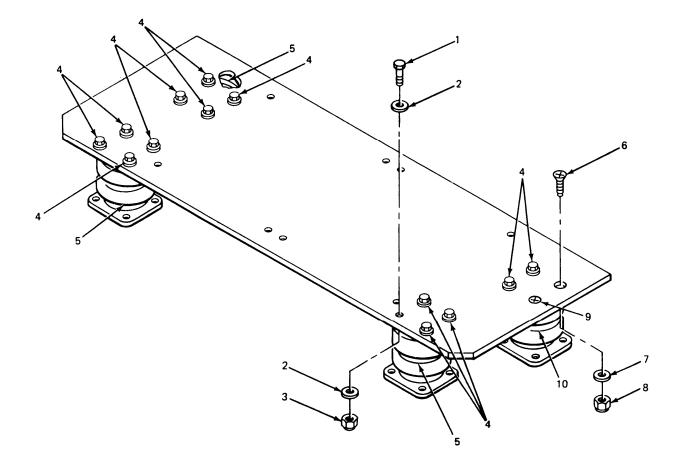
Top plate assembly removed.

See paragraph 4-36.

One mechanic

LOCATION	ITEM	ACTION REMARKS
REMOVAL		
 Top plate assembly 	Screw (1), flat washers (2) and nut (3)	Using two 9/16 inch box wrenches, remove. There are fourteen screws. Step 1 is typical for all fourteen screws.
2.	Screws (4)	Do step 1 for remaining fifteen screws.
3.	Tandem cup assemblies (5)	Remove.
4.	Screw (6), flat washer (7) and nut (8)	Using cross tip screwdriver, and 9/16 inch box wrench, remove. There are two screws. Step 4 is typical for both screws.
5.	Screw (9)	Do step 4 again.
6.	Tandem cup assembly (10)	Remove. For storage, put hardware in cloth bag, attach to tandem cup assembly and store in original carton.

4-37. REMOVING/INSTALLING TOP PLATE TANDEM CUP ASEMBLIES. (CONT)



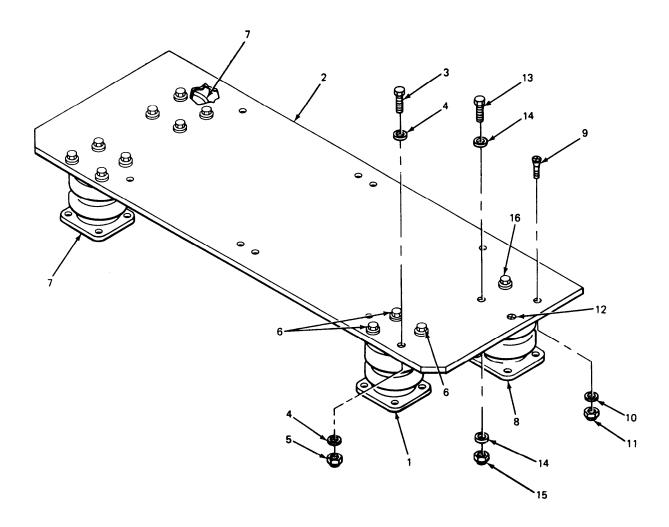
4.37. REMOVING/INSTALLING TOP PLATE TANDEM CUP ASEMBLIES. (CONT)

LOCATION	ITEM	ACTION REMARKS
INSTALLATION		
Outside of vehicle	Tandem cup assembly (1) and top plate (2)	Put tandem cup assembly on top plate and aline holes.
2.	Screw (3), flat washers (4) and nut (5)	Using two 9/16 inch box wrenches, install. There are four screws. Step 2 is typical for all four screws.
3.	Screws (6)	Do step 2 for remaining three screws.
4.	Tandem cup assemblies (7)	Do steps 1 thru 3 again for each tandem cup assembly.
5.	Tandem cup assembly (8) and top plate (2)	Put tandem cup on top plate and aline holes.
6.	Screw (9), flat washer (10) and nut (11)	Using cross tip screwdriver and 9/16 inch box wrench, install. There are two screws. Step 5 is typical for both screws.
7.	Screw (12)	Do step 5 again.
8.	Screw (13), flat washers (14) and nut (15)	Using two 9/16 inch box wrenches, install. There are two screws. Step 7 is typical for both screws.
9.	Screw (16)	Do step 7 again.
		NOTE

NOTE

See paragraph 4-36 for installation of top plate assembly.

4-37. REMOVING/INSTALLING TOP PLATE TANDEM CUP ASEMBLIES. (CONT)



4-38. REMOVING/INSTALLING BOTTOM PLATE.

This task covers:

- 1. Removal
- 2. Installation

INITIAL SETUP

Tools

9/16 inch box wrench (2 required) Cross tip screwdriver

Materials/parts

Bottom plate

Personnel Required

Two mechanics

Equipment Condition

Mount assembly removed. See paragraph 4-34. Electronic equipment table removed. See paragraph 4-35. Top plate assembly removed. See paragraph 4-36.

LOCATION	ITEM	ACTION REMARKS	

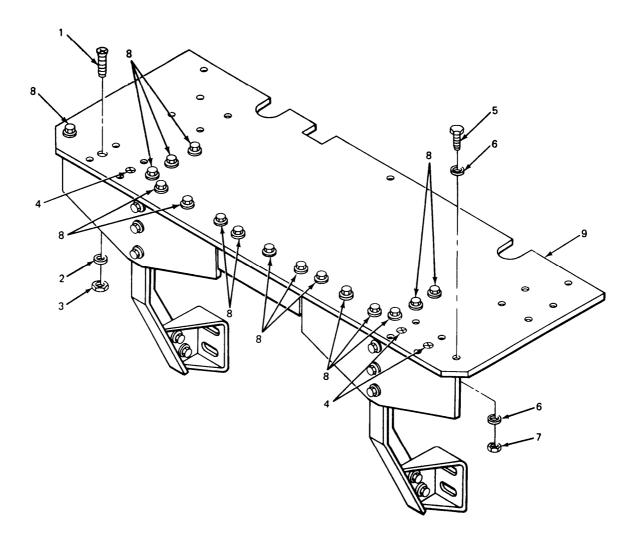
REMOVAL

NOTE

A helper will be needed to lift bottom plate.

1.	Bottom	plate	Screw (1), flat washer (2) and nut (3)	Using cross tip screwdriver and 9/16 inch box wrench. remove. There are-four screws. Step 1 is typical for all four screws.
2.			Screws (4)	Do step 1 for remaining three screws.
3.			Screw (5), flat washers (6) and nut (7)	Using two 9/16 inch box wrenches, remove. There are seventeen screws. Step 3 is typical for all seventeen screws.
4.			Screws (8)	Do step 3 for remaining sixteen screws.
5.	Lower le	egs	Bottom plate (9)	Remove.

4-38. REMOVING/INSTALLING BOTTOM PLATE. (CONT)



4-38. REMOVING/INSTALLING BOTTOM PLATE. (CONT)

|--|

INSTALLATION

WARNING

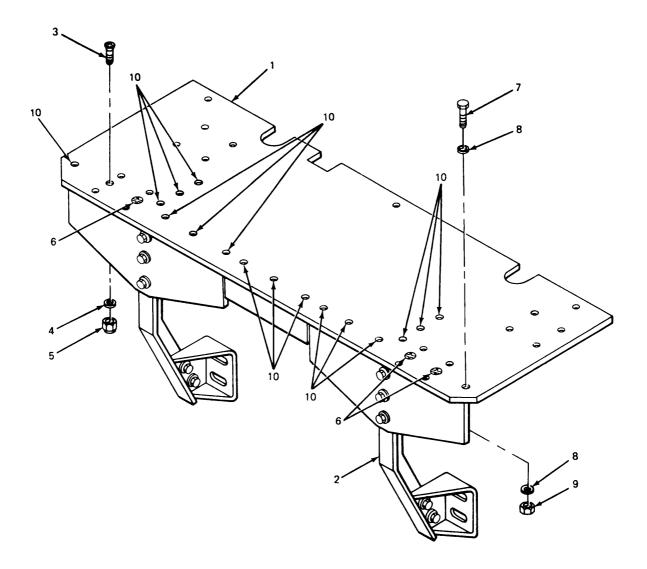
A helper will be needed to lift bottom plate.

 Outside of vehicle 	Bottom plate (1) and lower legs (2)	Put bottom plate on top of lower legs and aline holes.
Bottom plate and lower legs and supports	Screw (3), flat washer (4) and nut (5)	Using cross tip screwdriver, and 9/16 inch box wrench, install. There are four screws. Step 2 is typical for all four screws.
3.	Screws (6)	Do step 2 for remaining three screws.
4.	Screw (7), flat washers (8) and nut (9)	Using two 9/16 inch box wrenches, install. There are seventeen screws. Step 4 is typical for all seventeen screws.
5.	Screw holes (10)	Do step 4 again.

NOTE

See paragraph 4-9 for installation of top plate assembly. See paragraph 4-35 for installation of electronic equipment table.

4-38. REMOVING/INSTALLING BOTTOM PLATE. (CONT)



4-39. REMOVING/INSTALLING BOTTOM PLATE ASSEMBLY LOWER LEGS.

This procedure is typical for the right or left lower leg.

This task covers:

- 1. Removal
- 2. Installation

INITIAL SETUP

Tools

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

Materials/parts

Lower leg

Personnel Required

One mechanic

ACTION

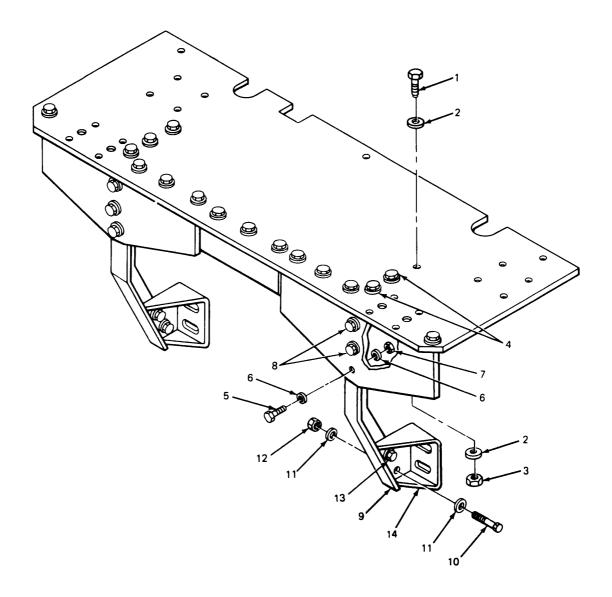
Equipment Condition

Bottom plate assembly removed. See paragraph 4-38.

LOCATION	ITEM	REMARKS
REMOVAL		
Bottom plate assembly	Screw (1), flat washers (2) and nut (3)	Using two 9/16 inch box wrenches, remove. There are three screws. Step 1 is typical for all three screws.
2.	Screws (4)	Do step 1 again.
3.	Screw (5), flat washers (6) and nut (7)	Using two 1/2 inch box wrenches, remove. There are three screws. Step 3 is typical for all three screws.
4.	Screws (8)	Do step 3 again.
5.	Lower leg (9)	Remove.
6. Lower leg	Screw (10), flat washers (11) and nut (12)	Using two 9/16 inch box wrenches, remove. There are two screws. Step 4 is typical for both screws.
7.	Screw (13)	Do step 4 again.
8.	Support (44)	Remove.

bracket (14)

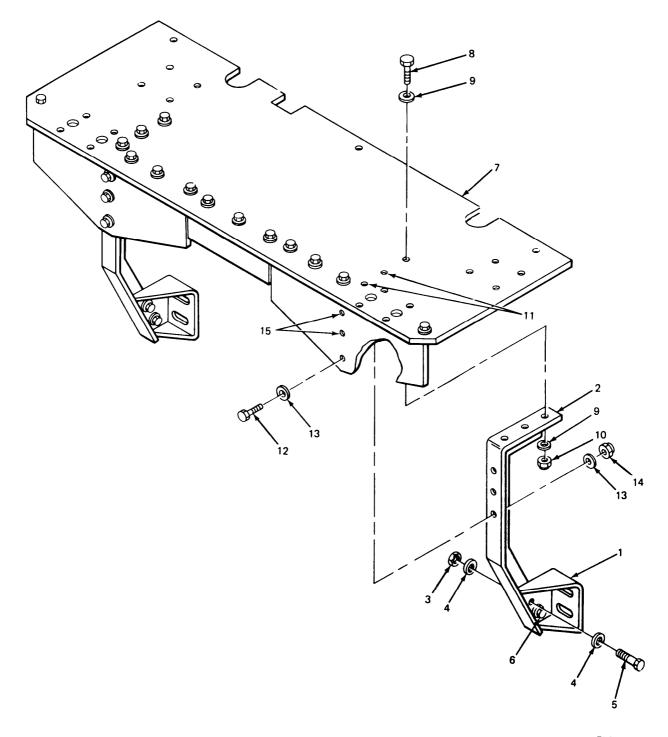
4-39. REMOVING/INSTALLING BOTTOM PLATE ASSEMBLY LOWER LEGS. (CONT)



4-39. REMOVING/INSTALLING BOTTOM PLATE ASSEMBLY LOWER LEGS. (CONT)

LOCATION	ITEM	ACTION REMARKS
NSTALLATION		
Outside of vehicle	Support bracket (1) and lower leg (2)	Put support bracket on lower leg and aline holes.
2.	Screw (3), flat washers (4) and nut (5)	Using two 9/16 inch box wrenches, install. There are two screws. Step 2 is typical for two screws.
3.	Screw (6)	Do step 2 again.
4.	Lower leg (2) and bottom plate (7)	Put lower leg on bottom plate and aline holes.
5.	Screw (8), flat washers (9) and nut (10)	Using two 9/16 inch box wrenches, install. There are three screws. Step 5 is typical for all three screws.
6.	Screw holes (11)	Do step 5 again.
7.	Screw (12), flat washers (13) and nut (14)	Using two 1/2 inch box wrenches, install. There are three screws. Step 7 is typical for all three screws.
8.	Screws (15)	Do step 7 for remaining screws.
		NOTE
		-9 for installation of top plate assembly. I-35 for installation of electronic equipment

4-39. REMOVING/INSTALLING BOTTOM PLATE ASSEMBLY LOWER LEGS. (CONT)

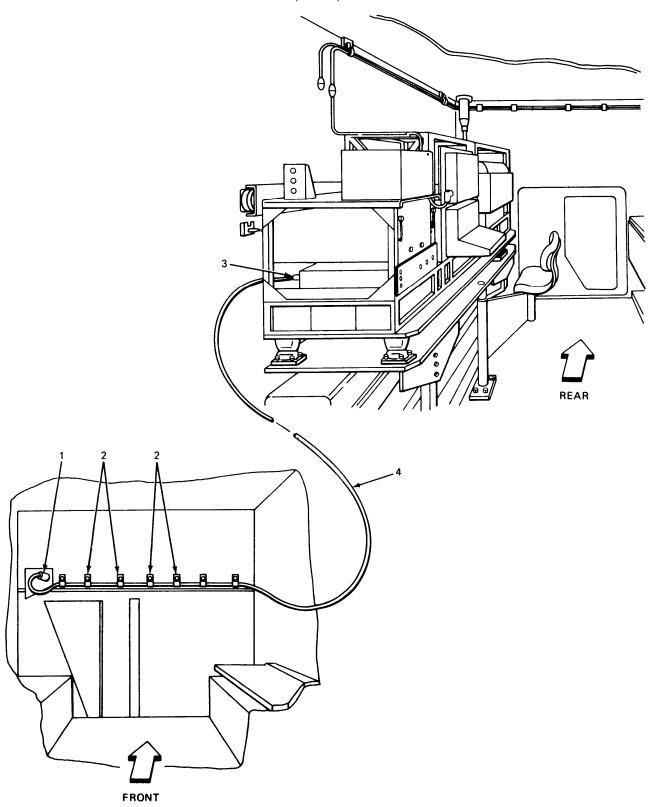


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4-40. REMOVING 15 FOOT CABLE ASSEMBLY.

This	task covers:		
Re	moval		
NITIA	AL SETUP		
Too	ols		Personnel Required
I	Flat tip screwdriver		One mechanic
Ма	terials/parts		Equipment Condition
,	15 foot cable assembly	All power in vehicle off.	
	LOCATION	ITEM	ACTION REMARKS
1.	Power receptacle	Connector plug and adapter (1)	Disconnect.
2.	Roadside front to curbside rear	Cable support kit (2)	Remove. Remove all cable clamps up to power distribution box.
3.	Rear of power distribution box	Connector (3)	Disconnect.
4.	Roadside front to curbside rear	15 foot power cable (4)	Remove.
5.		15 foot power cable (4)	See paragraph 4-23 for installation.

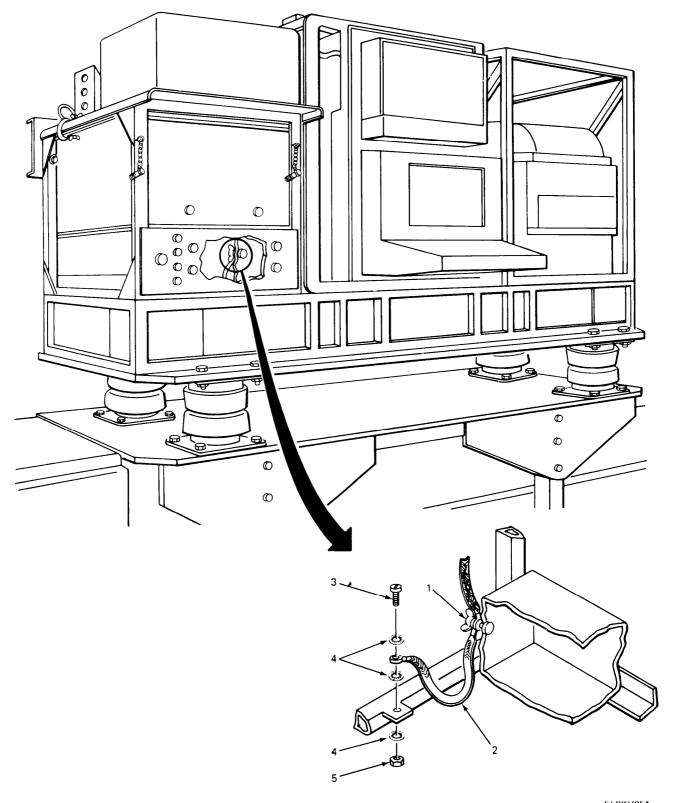
4-40. REMOVING 15 FOOT CABLE ASSEMBLY. (CONT)



4-41. REMOVING/INSTALLING 6 INCH GROUND STRAP.

4. Damayal		
 Removal Installation 		
INITIAL SETUP		
Tools		Personnel Required
Flat tip screwdriver 9/16 inch box wrench		One mechanic
Pliers		Equipment Condition
Materials/parts		All power in vehicle off.
6 inch ground strap		
LOCATION	ITEM	ACTION REMARKS
REMOVAL		
Rear of power distribution box	Wingnut (1) and 6 inch ground strap (2)	Using pliers, remove.
Lower rear support key generator rack	Screw (3), IT lockwashers (4), nut (5) and 6 inch ground strap (2)	Using flat tip screwdriver and 9/16 inch box wrench, remove.
Rear of power distribution box	6 inch ground strap (2)	Remove. For storage, put hardware in cloth bag, attach to 6 inch ground strap and pack in original carton.
NSTALLATION		
Rear of power distribution box	Wingnut (1) and 6 inch ground strap (2)	Using pliers, install.
2.	6 inch ground strap (2), screw (3), IT lock- washers (4) and nut (5)	Using flat tip screwdriver and 9/16 inch box wrench, install.

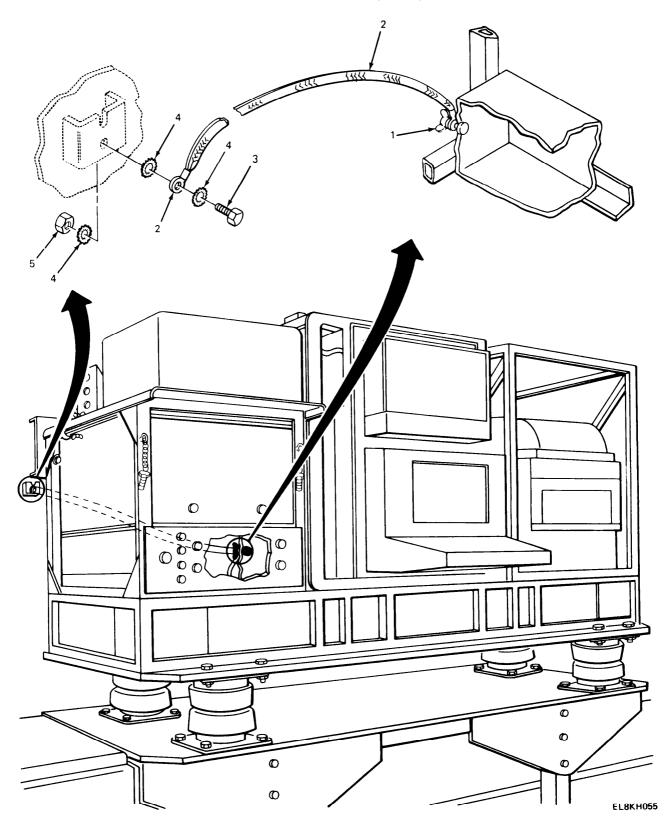
4-1. REMOVING/INSTALLING 6 INCH GROUND STRAP. (CONT)



4-42. REMOVING/INSTALLING 15 INCH GROUND STRAP.

This task covers:				
Removal Installation				
INITIAL SETUP				
Tools		Personnel Required		
9/16 inch box wrencl Pliers	n (2 required)	One mechanic		
Materials/Parts		Equipment Condition		
15 inch ground strap)	All power in vehicle off.		
LOCATION	ITEM	ACTION REMARKS		
REMOVAL				
Rear of power distribution box	Wingnut (1) and 15 inch ground strap (2)	Using pliers, remove.		
Curbside wall, support bracket	Screw (3), IT lockwashers (4), nut (5) and 15 inch ground strap (2)	Using flat tip screwdriver and 9/16 inch box wrench, remove.		
Rear of power distribution box	15 inch ground strap (5)	Remove. For storage, put hardware in cloth bag, attach to 15 inch ground strap and pack in original carton.		
INSTALLATION				
Rear of power distribution box	Wingnut (1) and 15 inch ground strap (2)	Using pliers, install.		
Curbside wall, support bracket	15 inch ground strap (2), screw (3), IT lock- washers (4) and nut (5)	Using two 9/16 inch box wrenches, install.		

4-42. REMOVING/INSTALLING 15 INCH GROUND STRAP. (CONT)



4-43. REMOVING W280 CABLE ASSEMBLY.

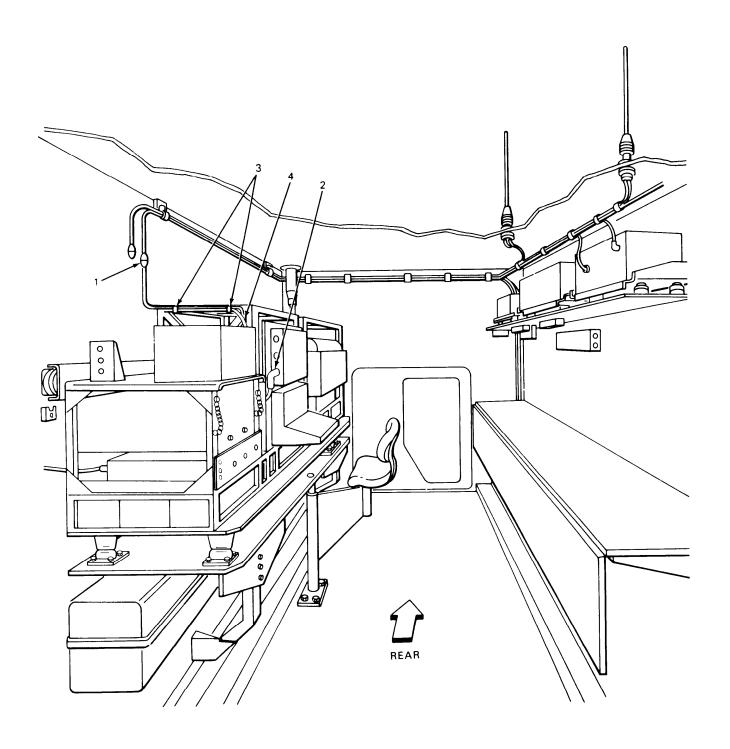
This task covers:				
Removal				
INITIAL SETUP				
Tools		Personnel Required		
None		One mechanic		
Materials/Parts	Equipment Condition			
None		All power in vehicle off.		
LOCATION	ITEM	ACTION REMARKS		

NOTE

For single radio transmitter operation, disconnect W280 cable assembly from CX-13050/U cable assembly. When radio transmitters are used in retransmission mode, disconnect W280 cable assembly from CX-13088/U cable assembly.

 Connector for CX-13050/U or CX-13088/U cable assemblies 	Connector (1)	Disconnect.
Receptacle J6 on remote data terminal	Connector (2)	Disconnect 90 degree elbow end.
Message entry group rack	Nylon straps (3)	Remove.
4.	Cable assembly (4)	Remove.
5.	Cable assembly (4)	See paragraph 4-21 for installation.

4-43. REMOVING W280 CABLE ASSEMBLY. (CONT)



4-44. REMOVING CX-1305/U OR CX-13088/U CABLE ASSEMBLY.

Removal procedures for CX-13050/U or CX-13088/U cable asemblies are the same.

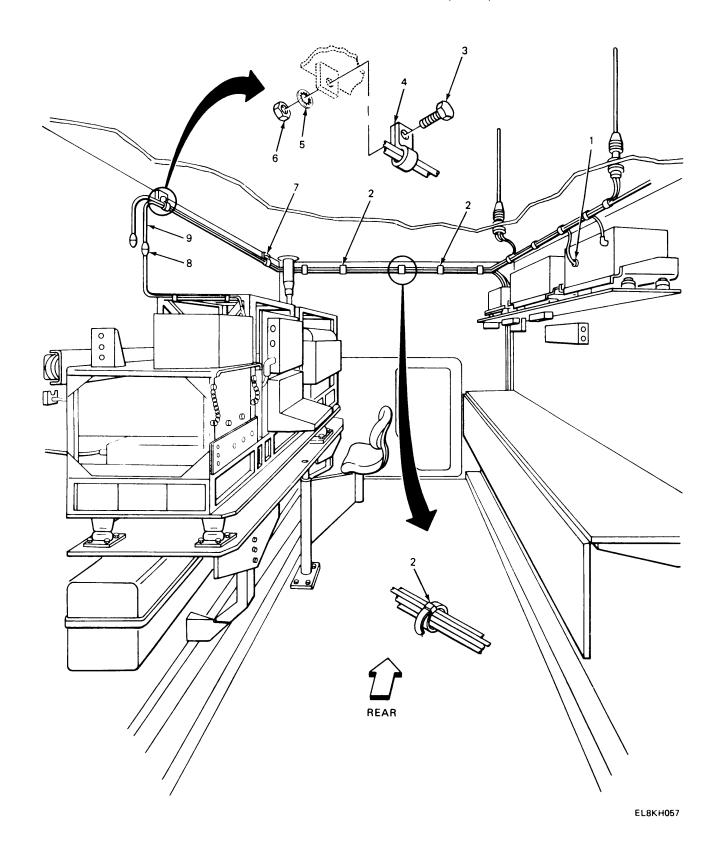
This task covers:			
Removal			
INITIAL SETUP			
Tools		Personnel Required	
Flat tip screwdriver		One mechanic	
Materials/parts		Equipment Condition	
Cable Assembly CX-13050/U (16 feet) Cable Assembly CX-13088/U (16 feet)		All power in vehicle off.	
LOCATION	ITEM	ACTION REMARKS	

NOTE

When a single radio transmitter is used, remove Cable Assembly CX-13050/U. When radio transmitters are used in retransmission mode, remove Cable Assembly CX-13088/U.

Radio receiver transmitters	Connector (1)	Disconnect.
2.	Nylon straps (2)	Remove.
3. Curbside upper wall	Screw (3), cable clamp (4), IT lockwasher (5) and nut (6)	Using flat tip screwdriver, remove. There are two support brackets to secure cables. Step 2 is typical for both support brackets.
4.	Support bracket (7)	Do step 3 again.
5.	Connector (8)	Disconnect.
6.	Cable assembly (9)	Remove.
7.	Cable assembly (9)	See paragraph 4-22 for installation.

4-44. REMOVING CX-13050/U OR CX-13088/U CABLE ASSEMBLY. (CONT)



4-45. REMOVING/INSTALLING SEAT SUPPORT ASSEMBLY.

This task covers:

- 1. Removal
- 2. Installation

INITIAL SETUP

Tools Personnel Required

1/2 inch box wrench (2 required)

One mechanic

Screws (12)

Lower support (4)

3/4 inch box wrench

Equipment Condition

Materials/Parts

Mount assembly installed.

Do step 7 for remaining three screws.

Remove.

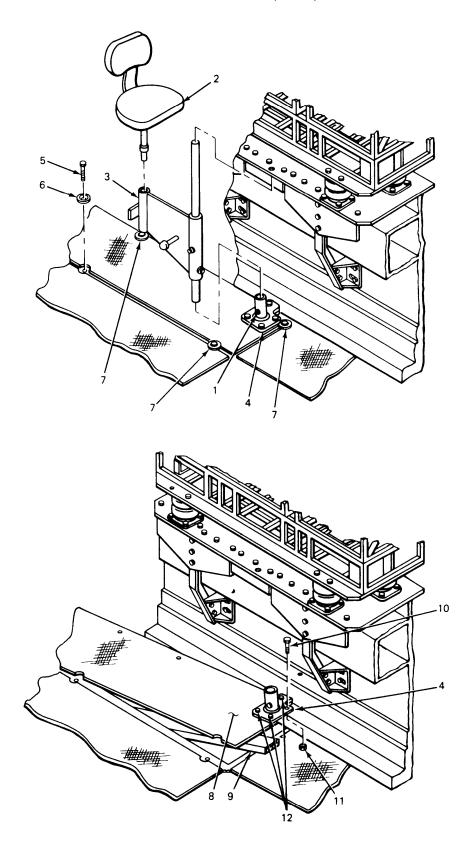
Seat support assembly

LOC	CATION ITE	ACTION EM REMARKS	
REMOVAL			
 Curbside vehicle 	of Quick releas	se Remove.	
2.	Seat (2)	Remove.	
3.	Seat suppor assembly (3) and lower support (4)	• • • • • • • • • • • • • • • • • • • •	d out of
4. Floor pla	ste Screw (5) an washer (6)	nd Using 3/4 inch box wrench, remov There are four screws. Ste typical for all four screws	ep 4 is
5.	Screws (7)	Do step 4 for remaining three scr	ews.
6. Curbside	floor Floor plate (and wood bloom		
7. Floor pla	ste Screw (10) and nut (11)	Using two 1/2 inch box wrenches, There are four screws. Ste typical for all four screws	ep 7 is

8.

9.

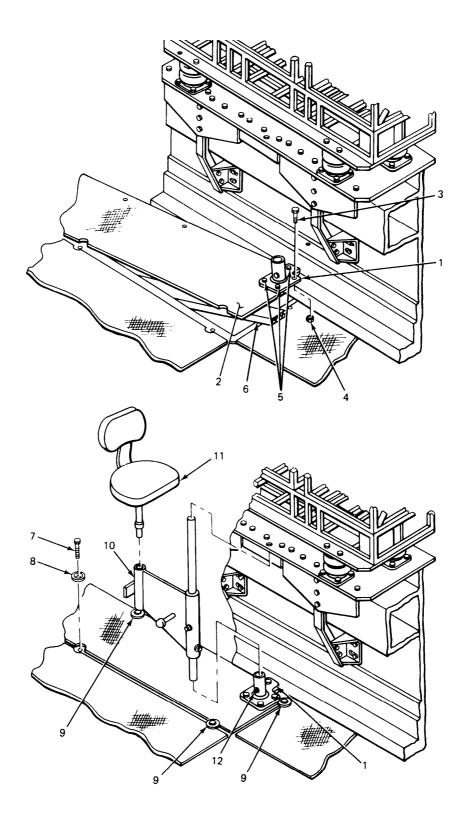
4-45. REMOVING/INSTALLING SEAT SUPPORT ASSEMBLY. (CONT)



$\textbf{4-45. REMOVING/INSTALLING SEAT SUPPORT ASSEMBLY}. \ (\texttt{CONT})$

LOCATION	ITEM	ACTION REMARKS
INSTALLATION		
Outside of vehicle	Lower support (1) and floor plate (2)	Put lower support on floor plate and aline holes.
2. Floor plate	Screw (3) and nut (4)	Install, hand tighten. There are four screws. Install screws with heads under floor plate. Step 2 is typical for all four screws.
3.	Screw holes (5)	Do step 2 again.
4.	Screw (3) and nut (4)	Using two 1/2 inch box wrenches, tighten. There are four screws. Step 4 is typical for all four screws.
5.		Do step 4 for remaining three screws.
6. Curbside floor	Floor plate (2) and wood block (6)	Remove wood block and position floor plate.
7.	Screw (7) and flat washer (8)	Using 3/4 inch box wrench, install. There are six screws. Step 7 is typical for all six screws.
8.	Screws (9)	Do step 7 for remaining five screws.
9.	Seat support assembly (10) and lower support (1)	Install. Put into mount assembly hole, then lower into lower support.
10.	Seat (11)	Install.
11.	Quick release pin (12)	Install.

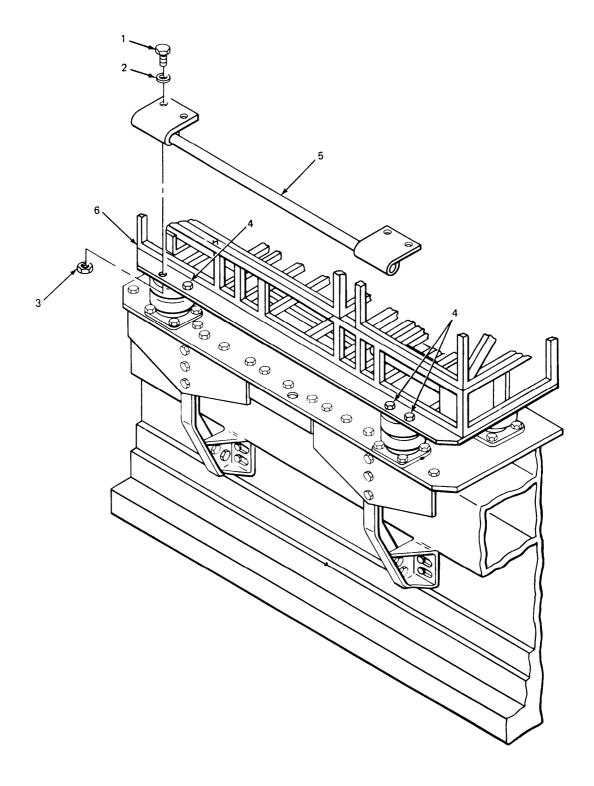
4-45. REMOVING/INSTALLING SEAT SUPPORT ASSEMBLY. (CONT)



4-46. REMOVING /INSTALLING SAFETY BAR.

This task covers:					
	Removal Installation				
INITIA	AL SETUP				
To	ols		Personnel Required		
9	9/16 inch box wrench (2	required)	One mechanic		
Ма	aterials/Parts		Equipment Condition		
;	Safety bar		All power in vehicle off.		
	LOCATION	ITEM	ACTION REMARKS		
REMOVAL					
1.	Curbside front of top plate assembly	Screw (1), flat washers (2) and nut (3)	Using two 9/16 inch box wrenches, remove. There are four screws. Step 1 is typical for all four screws.		
2.		Screws (4)	Do step 1 for remaining three screws.		
3.		Safety bar (5)	Remove.		
INST	INSTALLATION				
1.	Curbside front of top plate assembly	Safety bar (5) and top plate assembly (6)	Put safety bar on top plate assembly and aline holes.		
2.		Screw (1), flat washers (2) and nut (3)	Using two 9/16 inch box wrenches, install. There are four screws. Step 2 is typical for all four screws.		
3.		Screws (4)	Do step 2 for remaining three screws.		

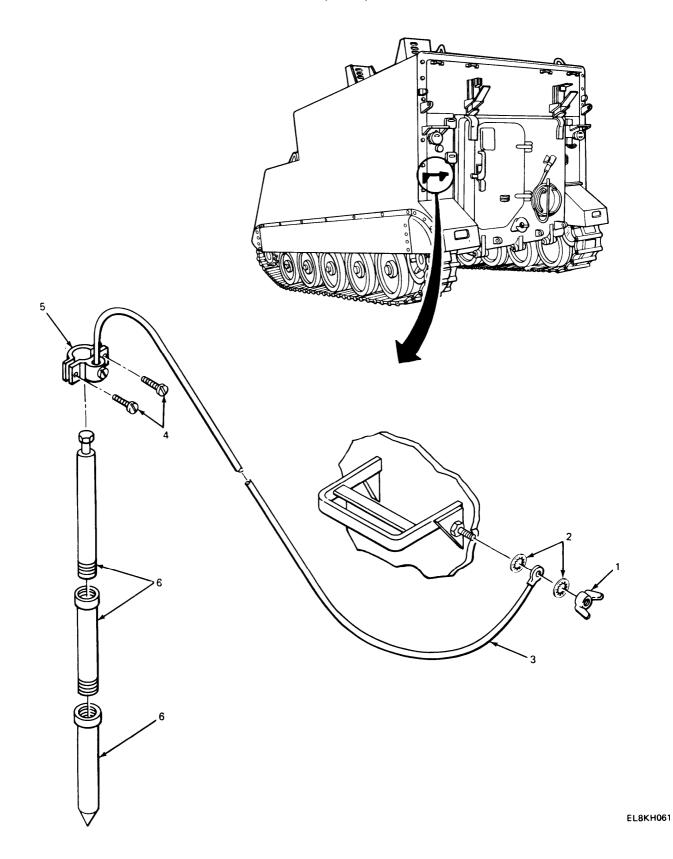
4-46. REMOVING/INSTALLING SAFETY BAR. (CONT)



4-47. REMOVING EXTERNAL GROUND ROD KIT.

This task covers:			
Removal			
INITIAL SETUP			
Tools	Personnel Required		
Flat tip screwdriver 8 pound sledge hammer Pliers		One mechanic Equipment Condition	
Materials/Parts		Ground rod installed.	
None			
LOCATION	ITEM	ACTION REMARKS	
1. Roadside, lower gusset	Wingnut (1), IT lockwashers (2) and 10 foot grounding strap (3)	Using pliers, remove.	
2.	IT lockwashers (2) and wing- nut (1)	Using pliers, install.	
5. Grounding Rod	Screws (4) and ground rod clamp (5)	Using flat tip screwdriver, remove.	
4. Outside of vehicle	Grounding rod (6)	Using 8 pound sledge hammer, remove. Hit grounding rod from side to side. Pour water over grounding rod to soften the ground. Continue to hit and pour water over grounding rod until it can be pulled from the ground.	
		NOTE	
	three sections an strap and ground	od comes in three sections. Uncouple the od place in canvas bag with 10 foot ground of rod clamp. Store inside command carrier. -25 for installation of ground rod kit.	

4-47. REMOVING EXTERNAL GROUND ROD KIT. (CONT)



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

There are no direct support and general support maintenance procedures required for the Electronics Equipment Installation Kit MK-1531()/GSG-10(V) in Command Post Carrier M577A1.

APPENDIX A

REFERENCE

A-1. SCOPE.

The following publications contain information applicable to the installation of Electronic Equipment Installation Kit MK-1 531()/GSG-10(V) in Command Post Carrier M577A1.

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 Direction Finder Equipment	TB SIG 291
Operator's Manual: Data Display Artillery, Battery AN/GSO-122(BDU) (NSN7010-01-017-3741).	TM 11-7440-251-10
Operator's Manual: Message Entry Device, Variable Format AN/GSC-21 (VFMED) (NSN7010-01-017-6967)	TM 11-7440-253-10-1
Operator's Manual: Message Entry Device, Variable Format, AN/GSC-21 (VFMED) (NSN 7010-01-017-6967)	TM 11-7440-253-10-2
Operator's Manual: Message Entry Device, Variable Format, AN/GSC-21 (VFMED) (NSN7010-01-017-6967)	TM 11-7440-253-10-3

TM 11-7440-268-14

A-5. TECHNICAL MANUALS. (CONT)

Operator's Manual: Message Entry Device, Variable Format, AN/GSC-21 (VFMED) (NSN 7010-01 -017-6967)	TM 11-7440-253-10-4
Operator's Manual: Message Entry Device Variable Format, AN/GSC-21 (VFMED) (NSN 7010-01-017-6967)	TM 11-7440-253-10-5
The Army Maintenance Management System (TAMMS)	TM 38-750
Administrative Storage of Equipment	TM 740-90-1
Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command)	TM 750-244-2
Operator's Manual for Welding Theory and Application	TM 9-237

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.

B.2. MAINTENANCE FUNCTIONS. (CONT)

- 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 counterpart 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.

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

- 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/qualtiy 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
 - D Depot Maintenance
 - e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TM DE, 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 11, 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=1531()/GSG-10(V)

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	MAII C	NTENA O	NCE F	CATEGO H	RY D	(5) TOOLS AND EQPT	(6) REMARKS
00	Installation Kit MK 1531()/ GSG-10(V)	Install		10.5				1 thru 4	
01	Tacfire Rack	Inspect Service Replace Repair	0.3 0.3	0.1	1.5			3,4 1,2 1,2	
0101	Mount Assembly	Inspect Service Replace Repair	0.1 0.2	2.0	2.75			3,4 1,2 1,2	
010101	Electronics Equipment Table	Inspect Service Replace Repair	0.1 0.2	1.5	2.0			3,4 1,2 1,2	
010102	Top Plate Assembly	Inspect Service Replace Repair	0.1 0.2	1.5	0.75			3,4 1,2 1,2	
01010201	Tandem Cup Assembly	Inspect Service Replace Repair	0.1 0.2	2.5	0.75			3,4 1,2 1,2	
010103	Bottom Plate Assembly	Inspect Service Replace Repair	0.1 0.2	0.5	0.75			3,4 1,2 1,2	

Section II MAINTENANCE ALLOCATION CHART FOR INSTALLATION KIT MK-1531()/GSG-10(V)

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	MAIN C	TENAI O	(4) NCE CAT F H		(6) REMARKS
01010301	Brace	Inspect Service Replace Repair	0.1 0.2	1.0	2.0	3,4 1,2 1,2	
0102	Wall Mounting Assembly	Inspect Service Replace Repair	0.1 0.2	2.5	1.0	3,4 1,2 1,2	
010201	Tandem cups	Inspect Service Replace Repair	0.1 0.2	3.0	1.5	3,4 1,2 1,2	
0103	Key Generator Rack	Inspect Service Replace Repair	0.1 0.2	0.5	0.75	3,4 1,2 1,2	
0104	Message Entry Group Rack	Inspect Service Replace Repair	0.1 0.2	0.5	0.75	3,4 1,2 1,2	
0105	Electronic Line Printer Rack	Inspect Service Replace Repair	0.1 0.2	0.5	0.75	3,4 1,2 1,2	
02	Tacfire Components						A,B, C
0201	Electronic Line Printer						B,C
0202	Message Entry						B,C B,C
0203	Group Key Generator						в,с В,С

Section III TOOL AND TEST EQUIPMENT REQUIREMENTS FOR INSTALLATION KIT MK-1531()/GSG-10(V)

TOOLS OR TEST EQUIPMENT REF CODE	MAINTENANcE CATEGORY	N O M E Nclature	NATIONAIL/NATO TOOL STOCK NUMBER NUMBER
1	C, O,F,H	Tool Kit Mechanic	5180-00-754-0641
2	C, O,F,H	No. 2 Common Organizational Maintenance Tool Kit	4910-00-754-0654
3	C,O	Methyl Ethyl Ketone	6810-00-264-8983
4	C,O	Cleaning Cloth	
	S	ection IV REMARKS	
REFERENCE CODE		REMARKS	
A	See TM 11-5820-4	401-12	
В	See TM11-7440-2	51-10	
С	See TM 117440-2	53-10-1	

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.
Assembly	A collection of parts put together to make one major part.
Clockwise	Moving in the direction traveled by the hands of a clock.
Counterclockwise	Opposite the direction traveled by the hands of a clock.
Engaged	To apply, to make connection with.
External	Outside of subject.
Flush	Up against.
Hardware	Manufactured articles of metal, like lock- washers, flat washers, nuts, bolts.
Install	To put in place or position.
Mount	Frame or support.
Overview	A brief description.
Pilot drill	To make ready for final drilling.
Preparation	To make ready.
Purge	To clear or get rid of.
Shim	A piece of metal used between two items to level.
Route	To put in place on a specific path or course.
Stud	A headless screw.
Terminal lug	A device attached to the end of a wire or cable to make a connection.
Top off	To fill up.
Ventilate	To expost to air.
Visibility	The ability to be seen.

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10 July 1975

PUBLICATION NUMBER

TM 11-5840-340-12

PUBLICATION DATE
23 Jan 74

PUBLICATION TITLE

Radar Set AN/PRC-76

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ALONG PERFORATED

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°.

REASON: Experience has shown that will only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decertate as it hunts, causing strain to the drive train. He lag is minimized by adjusting the lag to 2° without degradation of operation.

Item 5, Function column. Change "2 db" to "3db."

REASON: The adjustment procedure the the TRANS POWER FAULT in calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.

Add new step f.1 to read, "Replace cover plate removed step e.1, above."

REASON: To replace the cover plate.

Zone C 3. On J1-2, change "+24 VDC to "+5 VDC."

REASON: This is the output line of the 5 VDC power supply. +24 VDC is the input voltage.

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SSG I. M. DeSpiritof 999

999-1776

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