TECHNICAL BULLETIN INSTALLATION INSTRUCTIONS

FOR SYSTEMS

SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM (SINCGARS) AN/VRC-88F, AN/VRC-89F, AN/VRC-90F, AN/VRC-91F, AN/VRC-92F

FORCE XXI BATTLE COMMAND, BRIGADE-AND-BELOW (FBCB2)

AN/UYK-128(V)4

FREQUENCY HOPPING MULTIPLEXER (FHMUX) TD-1456/VRC

PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR) AN/PSN-11

ENHANCED POSITION LOCATION REPORTING SYSTEM (EPLRS) MK-2467A/NSQ-1

> VEHICULAR INTERCOMMUNICATION SET (VIC-3) AN/VIC-3(V)20

FOR VEHICLE

TRUCK, UTILITY: UP-ARMORED CARRIER, 4X4, M1114 (2320-01-413-3739) (EIC: B6C).

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HEADQUARTERS, DEPARTMENT OF THE ARMY

OCTOBER 2005

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TECHNICAL BULLETIN INSTALLATION INSTRUCTIONS

FOR SYSTEMS

SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM (SINCGARS) AN/VRC-88F, AN/VRC-89F, AN/VRC-90F, AN/VRC-91F, AN/VRC-92F

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FREQUENCY HOPPING MULTIPLEXER (FHMUX) TD-1456/VRC

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ENHANCED POSITION LOCATION REPORTING SYSTEM (EPLRS) MK-2467A/NSQ-1

VEHICULAR INTERCOMMUNICATION SET AN/VIC-3(V)20

FOR VEHICLE

TRUCK, UTILITY: UP-ARMORED CARRIER, 4X4, M1114 (2320-01-413-3739) (EIC: B6C).

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CHAPTER 1 INTRODUCTION

Section I. SCOPE

1-1. This technical bulletin provides installation instructions for Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) equipment. The C4ISR equipment shall be installed in the following vehicles:

Truck, Utility: Up-Armored Carrier, 4x4, M1114

1-2. The information contained in this technical bulletin is the official authorization to perform the installation of the C4ISR equipment at the direct support maintenance level through contract maintenance teams.

Section II. NOTES

- 2-1. This technical bulletin is not an authorization for requisition or turn-in of vehicles.
- 2-2. This technical bulletin does not establish quantity or types of vehicles assigned to using units.

Section III. GENERAL INFORMATION

- **3-1.** Included in the C4ISR equipment are:
 - a. Single Channel Ground and Airborne Radio System (SINCGARS), Radio Set AN/VRC-88F/89F/90F/91F/92F Series
 - b. Force XXI Battle Command, Brigade-and-Below (FBCB2), AN/UYK-128(V)4
 - c. Frequency Hopping Multiplexer (FHMUX), Td-1456/VRC
 - d. Precision Lightweight Global Positioning System Receiver (PLGR), AN/PSN-11
 - e. Enhanced Position Location Reporting System (EPLRS), MK-2467A/NSQ-1
 - f. Vehicular Intercommunication Set (VIC-3), AN/VIC-3(V)20
 - g. Additional terminal boards
- **3-2.** The C4ISR equipment becomes operable when all the components are installed in the vehicle and correct power is supplied.

Section IV. MAINTENANCE FORMS, RECORDS, AND REPORTS

Use the following to report any discrepancies:

- a. Reports of Maintenance and Unsatisfactory Equipment. See chapter 4, sections VI through VIII for information.
- b. Report of Packaging and Handling Deficiencies. See chapter 4, sections VI through VIII for information.
- c. Discrepancy in Transportation Deficiency Report (TDR) (SF361). See chapter 4, sections VI through VIII for information.

Section V. CONSOLIDATED INDEX OF ARMY PUBLICATIONS

Refer to the latest issue of DA Pam 25-30 to determine whether there are new changes or additional publications pertaining to the C4ISR equipment.

CHAPTER 2 PURPOSE OF INSTALLATION

The purpose of installing the C4ISR equipment is to provide the primary means of integrating command and control systems.

CHAPTER 3 COMPLETION TIME FOR INSTALLATION

A total of 14 man-hours are required for two personnel to install the C4ISR equipment. Typical vehicle downtime is 7 hours.

CHAPTER 4 PREPARATION FOR INSTALLATION

Section I. PREPARATION OF VEHICLE

To prepare the vehicle for installation, ensure that the site includes adequate lighting and a power source when drilling is required. Inspect the vehicle for damage that could affect installation. Have any such damage repaired before installing the C4ISR equipment.

Section II. ITEMS TO BE REMOVED

- **2-1.** Remove batteries. (Refer to TM 9-2320-387-24-1.)
- **2-2.** Remove right-hand rear fixed door, if desired. (Refer to TM 9-2320-387-24-1.)
- 2-3. Remove right-hand rear cab enclosure panel. (Refer to TM 9-2320-387-24-1.)
- **2-4.** Remove radio rack. (Refer to TM 9-2320-387-24-2.)
- **2-5.** Remove double ammo box tray (caliber .50). (Refer to TM 9-2320-387-24-2.)
- **2-6.** Remove passenger seat. (Refer to TM 9-2320-387-24-2.)

Section III. LIST OF ITEMS TO BE RETAINED

- 3-1. Batteries.
- **3-2.** Right-hand rear cab enclosure (if applicable).
- **3-3.** Right-hand rear fixed door (if applicable).

Section IV. PREPARATION OF C4ISR EQUIPMENT

To prepare C4ISR equipment, unpack, inspect, and check inventory.

Section V. PRECAUTIONS DURING HANDLING

Observe the following precautions to prevent equipment damage.

- a. Keep dust covers in place on connectors.
- b. Do not disassemble or modify parts in the C4ISR equipment unless authorized to do so.
- c. Keep mounting hardware covered and protected until needed.

Section VI. UNPACK AND INSPECT EQUIPMENT

- **6-1.** Unpack and inspect packaging for evidence of damage.
- **6-2.** Any shipping damage should be reported on SF364 Report of Discrepancy (ROD) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73A/AFR 400-64/MCO 4430.F.

Section VII. INVENTORY C4ISR EQUIPMENT

If any item is missing, fill out and forward Transportation Deficiency Report (TDR) (SF361) as described in AR 55-38/NAVSUPINST 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 450015.

Section VIII. EXAMINE EACH ITEM FOR DAMAGE

If any item is damaged, fill out and forward SF364 Report of Discrepancy (ROD) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73A/AFR 400-64/MCO 4430.F. All damages should be reported as prescribed by DA Pam 738-750, as contained in the Maintenance Management Update.

Section IX. C4ISR EQUIPMENT, DISTRIBUTION, AND CONSUMABLES

- **9-1.** Item supplied in C4ISR equipment and/or required for installation.
- **9-2.** Use table 4-2 to identify and inventory C4ISR equipment parts supplied to perform installation. Refer to table 4-1 to identify additional materials required to install C4ISR equipment.

Section X. DISTRIBUTION AND ISSUE INSTRUCTIONS

- 10-1. U.S. Forces: Do not requisition C4ISR equipment. They will be shipped automatically.
- 10-2. U.S. Army Depots: Requisition C4ISR equipment through supply channels.
- **10-3.** Multiservice: Instructions shall be included for multiservice modifications.
- 10-4. MAP/MAS countries: Instructions shall be provided for MAP/MAS countries.

Section XI. PARTS LIST

KITS REQUIRED FOR THIS INSTALLATION:

NOTE

- Not all material in kits is required for this installation. Material not used during installation will be returned to stock for disposition in accordance with AR 725-50.
- If maintenance is to be performed on a vehicle with an existing kit, do not order entire kit for necessary reinstallation.

SINCGARS:

(A): MK-2801

PLGR:

(B): 57K4400

EPLRS:

(C): MK-2467A/VSQ-1 (D): MK-2753/VSQ

FHMUX:

(E): No kits available

FBCB2:

(F): No kits available

VIC-3:

(G): No kits available

MATERIAL REQUIRED FROM KITS:

ITEM		·			
NO.	NOMENCLATURE	PART NUMBER	NSN	KIT	QTY.
1.	Bracket, Antenna	A3014546-1	5340-01-391-2742	(A)	1
2.	Cable Assembly, Radio Frequency	A3014031-17	5995-01-225-1660	(A)	1
3.	Cable Assembly, Radio Frequency	A3014031-8	5995-01-219-7035	(A)	1
4.	Clamp, Loop	MS21333-75	5340-00-050-2740	(A)	3
5.	Clamp, Loop	MS21333-77	5340-00-922-6300	(A)	2
6.	Clamp, Loop	MS21333-98	5340-00-809-1490	(A)	1
7.	Fiber Rope Assembly, Single Leg	A3167672-1	4020-01-341-8795	(A)	2
8.	Gasket	A3013655-1	5330-01-205-2864	(A)	2
9.	Mounting Base, Electrical Equipment	A3013367-1	5975-01-188-8873	(A)	1
10.	Screw, Cap	MS35307-365	5305-00-847-1159	(A)	8
11.	Washer, Lock	MS35338-44	5310-00-582-5965	(A)	6
12.	Washer, Lock	MS45904-72	5310-00-889-2527	(A)	20
13.	Washer, Lock	MS45904-76	5310-00-061-1258	(A)	8
14.	Washer, Lock	MS35338-43	5310-00-045-3296	(A)	2

Table 4-1. Kit Parts List for Installation of C4ISR Equipment.

Table 4-2. Non-Kit Parts List for Installation of C4ISR Equipment.

item NO.	NOMENCLATURE	PART NUMBER	NSN	QTY.
1.	Adapter Assembly, Interface Device (SAID) 881331-1	4920-01-478-3722	1
2.	Antenna AS-3900/VRC	A3017899-2	5985-01-308-8988	2
3.	Antenna, AS-3499/VSQ-1	A3005031	5820 - 01 - 183 - 9462	1
4.	Antenna, Element (lower)	A3018230-1	5985-01-201-1498	2
5.	Antenna, Element (upper)	A3017901-2	5985-01-306-4622	2
6.	Antenna, PLGR	AT575-030	5985-01-375-4660	1
7.	Assembly, Display Lock	872843-1	N/A	1
8.	Base Weldment	A3265774	N/A	1
9.	Blank Shelf	A3265765	N/A	2
10.	Bolt	MS35751-18	5306-00-108-9988	4
11.	Box, Stowage	889519-1	2540-01-499-0607	1
12.	Bracket, Antenna	A3014546-1	5340-01-391-2742	1
13.	Bracket, Mounting	12480575	N/A	1
14.	Bracket, Mounting	889567-14	N/A	1
15.	Bracket, Mounting	A3046202	5340-01-237-8102	1
16.	Bracket, Support	12460300	5340-01-456-6554	1
17.	Bracket, User Readout (URO)	A3006206	5340-01-386-7841	1
18.	Cable Assembly, Antenna, EPLRS	SM-C-911480	5995-01-167-1269	1
19.	Cable Assembly, Antenna, PLGR	426-0141-050	6150 - 01 - 375 - 8662	1
20.	Cable Assembly, Ground	12480567-1	N/A	1
21.	Cable Assembly, Power	12480567-2	N/A	1
22.	Cable Assembly, Power, EPLRS	A3004939	5995-01-198-0538	1
23.	Cable Assembly, Power, PLGR	9728558-10	6150 - 01 - 375 - 8661	1
24.	Cable Assembly, INC-EPUU	A3279383-3	5995-01-453-9171	1
25.	Clamp, Loop	MS21333-67	5340-00-079-7837	2
26.	Clamp, Loop	MS21333-69	5340-00-764-7051	1
27.	Clamp, Loop	MS21333-96	5340-00-088-1255	1
28.	Clamp, Loop	MS21333-98	5340-00-809-1490	1
29.	Clamp, Loop	MS21333-104	5340-00-088-1254	1
30.	Clamp, Loop	MS21333-76	5340-00-724-7038	1
31.	CPU (Central Processing Unit)	881292-1	7021-01-474-3793	1
32.	Decal	12339060	7690-01-265-1135	1
33.	Decal	861868-2	N/A	1
34.	Display	881293-1	7025-01-475-0229	1
35.	Footrest Weldment	889567-21	N/A	1
36.	Gasket	A3013655-1	5330-01-205-2864	1
37.	Grommet, Nonmetallic	MS21266-1N	5325-00-960-2410	A/R
38.	Grommet, Nonmetallic	12338098	5325-01-308-5424	2
39.	Grommet, Nonmetallic	2400	5325-01-289-7859	1
40.	Grommet, Nonmetallic	MS35498-149	N/A	1

Table 4-2. Non-Kit Parts List	for Installation of	f C4ISR Equipment	(Contd).

item NO.	NOMENCLATURE	PART NUMBER	NSN	QTY.
41.	Grommet, Nonmetallic	12460299	5325-01-492-0008	1
42.	Grommet, Nonmetallic	MS35489-31	5325-01-174-9336	1
43.	Guard, Amp	872842-1	5935-01-487-2172	1
44.	Inboard Support Leg	A3265762-2	N/A	2
45.	Insert	12446871-2	5310-01-411-3422	2
46.	Insert	ALS4-616-150	5325 - 01 - 483 - 7480	3
47.	Insert	12446871-11	5325-01-505-3122	1
48.	Insert	12446871-1	5310-01-413-3276	4
49.	Insert	ALS7-616-150	5325-01-474-9732	3
50.	Insert	4397050-025	5310-01-521-2135	2
51.	Interface Unit, FFCS	A3206624	5895-01-469-6120	2
52.	Isolation Kit, CPU	872826-2	5340-01-481-5741	1
53.	Isolation Kit, Display	872870-1	5340-01-481-5757	1
54.	Lanyard	8925T5-7X19	4010-01-497-2675	1
55.	Left Rail Weldment	889567-12	N/A	1
56.	Master Control Station	A3206623	5895 - 01 - 469 - 3352	1
57.	Mount, Ramball	RAM-D-111U	5975-01-485-3615	1
58.	Mount, Resilient	MT-6146/VSQ-1	5340-01-167-8297	1
59.	Mounting Base, Electrical Equipment	A3154893	5975-01-430-3109	1
60.	Mounting Base, Electrical Equipment	A3013367-1	5975-01-188-8873	1
61.	Mounting Weldment	A3265775	N/A	1
62.	Nut	MS35649-2252	5310-00-997-1888	4
63.	Nut	13218E0320-293	5310-00-913-8881	8
64.	Nut	9418931	5310-01-187-7610	4
65.	Nut	9418892	5310-01-157-9819	10
66.	Nut	9417954	5310-00-931-8167	7
67.	Nut	MS35649-63	5310-00-804-3859	5
68.	Nut	271169	5310-00-124-9265	5
69.	Nut	MS17289-3C	N/A	4
70.	Nut	271175	5310-01-333-5245	6
71.	Nut	MS51968-5	5310-00-880-7746	8
72.	Nut, Lock	MS51943-31	5310-00-061-4650	4
73.	Nut, Lock	MS35649-2254	5310-00-250-9477	48
74.	Outboard Support Leg	A3265762-1	N/A	2
75.	Panel, Enclosure	12447141	2510-01-413-5993	1
76.	Radio Unit Shelf	A3265764	N/A	2
77.	Right Rail Weldment	889567-22	N/A	1
78.	Rivet, Blind	12339355-1	5320-01-271-6357	2
79.	Rod	889567-16	N/A	1
80.	Screw, Cap	MS35307-365	5305-00-847-1159	56

	Table 4-2. Non-Kit Parts List	t for Installation o	of C4ISR Eq	uipment (Contd).
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item NO.	NOMENCLATURE	PART NUMBER	NSN	QTY.
81.	Screw, Cap	B1821BH025C075N	5305-00-068-0508	2
82.	Screw, Cap	B1821BH031F100N	5305-00-051-4076	10
83.	Screw, Cap	B1821BH031F125N	5305-00-051-4078	9
84.	Screw, Cap	B1821AH025C150N	5305-00-071-2509	3
85.	Screw, Cap	B1821AH025C100N	5305-01-389-7984	6
86.	Screw, Cap	B1821AH025C063N	5305 - 01 - 457 - 8854	1
87.	Screw, Cap	B1821BH025C088N	5305-00-071-2505	6
88.	Screw, Cap	B1821BH031C075N	5306-00-226-4825	4
89.	Screw, Cap	B1821BH031C100N	5306-00-226-4827	4
90.	Screw, Cap	B1821BH031C150N	5305-00-226-4831	2
91.	Screw, Cap	B1821AH025C075N	5305-01-389-8000	3
92.	Screw, Cap	MS35307-369	5305-00-964-0635	4
93.	Screw, Cap	MS35307-360	5305-00-576-5417	7
94.	Screw, Cap	MS35307-305	5305-00-021-3616	8
95.	Screw, Cap	MS35307-371	5305-00-879-8351	3
96.	Screw, Cap	MS35307-306	5305-00-702-4523	2
97.	Screw	MS35206-230	5305-00-889-3000	5
98.	Screw	MS35190-287	5305-00-954-4295	2
99.	Screw	160046	5305-00-349-8534	1
100.	Screw	MS35190-291	5305-00-958-5247	2
101.	Screw	MS35206-266	5305-00-984-6213	4
102.	Screw	MS35207-263	5305-00-989-7434	2
103.	Screw, Self-Tapping	9421073	5305 - 01 - 162 - 8512	6
104.	Screw, Self-Tapping	9416639	5305 - 01 - 197 - 2320	2
105.	Screw, Self-Tapping	9426635	N/A	4
106.	Screw, Self-Tapping	12342499-2	5305-01-264-5809	7
107.	Side Support	A3265777	N/A	1
108.	Spacer	92510A318	N/A	4
109.	Spacer	10705AL315C	5365-01-487-3145	4
110.	Spacer	5579297	5365-01-194-0761	3
111.	Strap, Tiedown	MS3367-1-0	5975-00-984-6582	A/R
112.	Support Rack	889509-22	N/A	1
113.	Terminal	7728777	5940-00-983-4067	2
114.	Terminal	7728780	5940 - 01 - 035 - 4212	2
115.	Terminal Board	12480570	N/A	1
116.	Terminal Board	MS27212-3-8	5940-00-950-7782	1
117.	Terminal Board Cover	12480569-1	N/A	1
118.	Terminal Board Cover	12480569-2	N/A	1
119.	Terminal Board Cover	MS18029-3S-2	5940-01-280-9304	1
120.	Terminal Link	MS25266-6N-2	6150-01-167-9267	1

Table 4-2. 1	Non-Kit Parts	List for 1	Installation of	f C4ISR	Equipment (Contd).	
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ITEM NO.	NOMENCLATURE	PART NUMBER	NSN	QTY.
121.	Terminal Lug	MS20659-141	5940-00-113-9825	4
122.	Top Mounting Weldment	A3265767	N/A	1
123.	Top Support	A3265766	N/A	1
124.	Tubing, Shrink	MS23053/4-302-0	5970-01-161-6796	A/R
125.	Washer	12338095	5310-01-208-7576	6
126.	Washer	MS51412-23	5310-01-333-0060	2
127.	Washer	MS15795-814	5310-00-773-7618	6
128.	Washer	MS27183-10	5310-00-809-4058	10
129.	Washer	2436161	5310-01-102-3270	9
130.	Washer	MS27183-47	5310-01-312-4959	2
131.	Washer	2436162	5310-01-119-1024	8
132.	Washer	2436164	5310-01-278-9555	6
133.	Washer	MS15795-810	5310-00-582-5677	118
134.	Washer, Lock	MS35338-141	5310-00-984-7042	6
135.	Washer, Lock	MS35338-44	5310-00-582-5965	13
136.	Washer, Lock	MS35338-45	5310-00-407-9566	6
137.	Washer, Lock	MS35338-48	5310-00-584-5272	3
138.	Washer, Lock	MS35338-41	5310-00-045-4007	5
139.	Washer, Lock	120217	5310-01-279-8319	1
140.	Washer, Lock	MS45904-72	5310-00-889-2527	36
141.	Washer, Lock	MS35338-140	5310-01-389-7015	4
142.	Washer, Lock	MS35338-139	5310-00-933-8121	2
143.	Weldment Spacer	A3265776	N/A	9
144.	Wingnut	MS51553-420	5310-01-384-2546	4
145.	Wire Assembly, Fuse (12V)	12480568-2	N/A	1
146.	Wire Assembly, Fuse (24V)	12480568-1	N/A	3
147.	Wire, Braided	AA59569F30T0375	6145-00-191-8402	A/R
148.	Wire, Lock	MS20995C32	9505-00-293-4208	A/R

CHAPTER 5 INSTALLATION PROCEDURES

Section I. SCOPE

This chapter provides instructions for installation of the following C4ISR equipment:

- Single Channel Ground and Airborne Radio System (SINCGARS)
- Precision Lightweight Global Positioning System Receiver (PLGR)
- Enhanced Position Location Reporting System (EPLRS)
- Vehicular Intercommunications Set (VIS)
- Force XXI Battle Command, Brigade-and-Below (FBCB2)
- Additional terminal boards in the vehicle

Perform the steps in this chapter when installing SINCGARS, PLGR, EPLRS, VIS, FBCB2, and additional terminal boards. When installing C4ISR equipment, be sure to read and follow instructions and illustrations carefully.

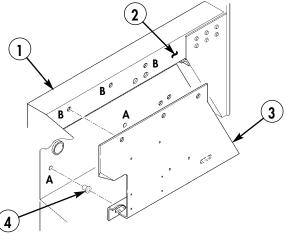
Section II. INSTALLATION OF TERMINAL BOARDS

Use the following procedure to install additional terminal boards to provide adequate power connections. Vehicles must have dual-voltage alternators installed in order to have both 12V and 24V terminal boards installed.

Section III. CAB ENCLOSURE PANEL, TERMINAL BOARD, AND COVER MODIFICATION

NOTE

- Late model M1114 vehicles come with cab enclosure panel and 24V terminal board. For early model M1114 vehicles, perform sections three through six. For late model M1114 vehicles, begin at section seven.
- For vehicles without cab enclosure panel, begin with step 3-1.
- For vehicles with cab enclosure panel, begin with step 3-3.
- All dimensions are in inches.
- **3-1.** Place enclosure panel (3) in position. Locate, mark, and drill five 0.159-in. diameter holes marked A and B in B-beam (1) and battery box (2).
- **3-2.** Enlarge two lower mounting holes marked A to 0.390-in. diameter and install two inserts (4) in battery box (2).



- 3. ENCLOSURE PANEL 12447141 QTY. 1
- 4. INSERT 12446871-2 QTY. 2

NOTE

Do not install cab enclosure panel.

- 3-3. Locate, mark, and drill three 0.156-in. diameter holes marked A in cab enclosure panel (1).
- 3-4. Locate, mark, and drill two 0.196-in. diameter holes marked B in cab enclosure panel (1).
- **3-5.** Locate, mark, and drill two 0.281-in. diameter holes marked C in cab enclosure panel (1).

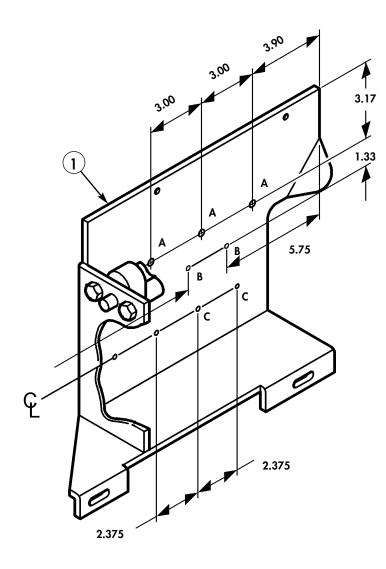


Figure 5-2.

NOTE

Perform steps 3-6 through 3-8 only if supplemental heater is installed.

- **3-6.** Locate, mark, and cut corner of cab enclosure panel (1).
- **3-7.** Locate, mark, and drill 0.154-in. diameter hole (5) in cab enclosure panel (1).

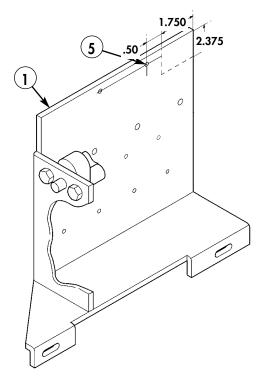
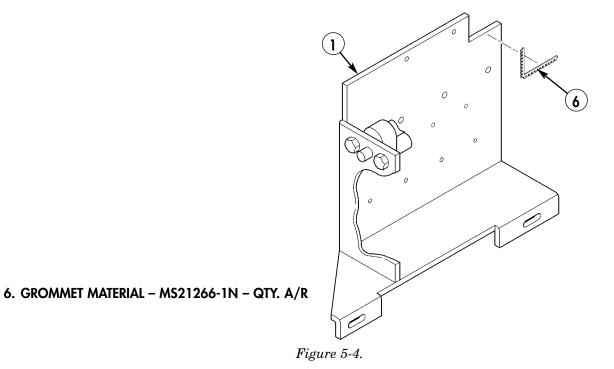


Figure 5-3.

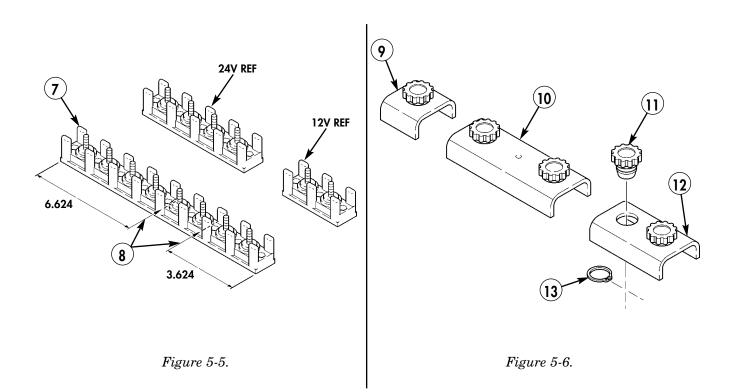
3-8. Install grommet material (6) on cab enclosure panel (1) with RTV compound.



CAUTION

Do not cut raised sections of terminal board. Terminal board is not usable if cut on raised section.

- **3-9.** Measure and cut terminal board (7) in two places (8). Remove burrs and sharp edges.
- **3-10.** Install five nut sleeves (11) in terminal board covers (9), (10), and (12), and secure with five snaprings (13).



- 7. TERMINAL BOARD MS27212-3-8 QTY. 1
- 9. TERMINAL BOARD COVER 12480569-1 QTY. 1
- 10. TERMINAL BOARD COVER 12480569-2 QTY. 1
- 12. TERMINAL BOARD COVER MS18029-3S-2 QTY. 1

Section IV. B-BEAM PREPARATION

Locate, mark, and drill four 0.159-in. diameter holes (2) in B-beam (1).

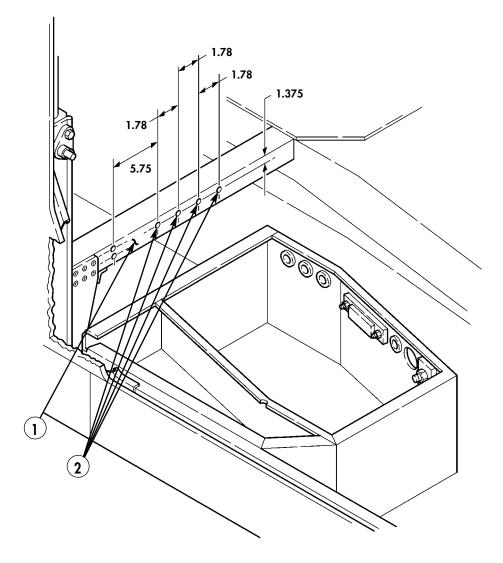
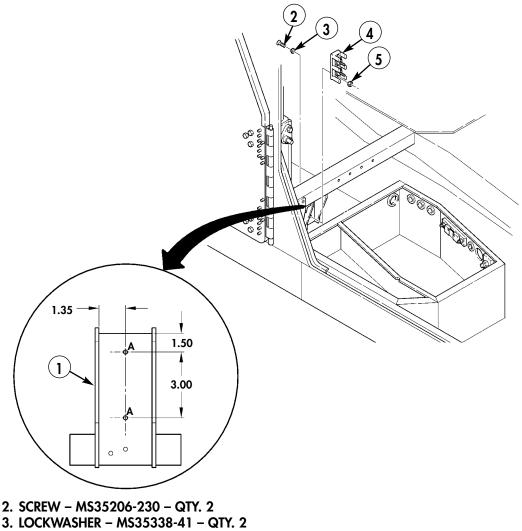


Figure 5-7.

Section V. ASSEMBLY OF CAB ENCLOSURE PANEL NOTE

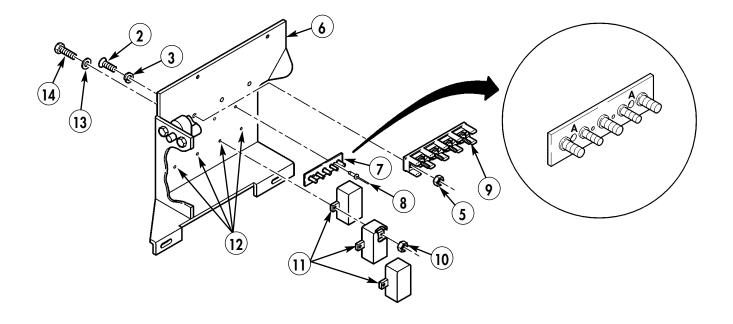
- For 12V terminal board installation on models with rifle mount bracket shown in figure 5-8, perform steps 5-1 through 5-3.
- If not installing 12V terminal board, begin with step 5-4.
- 5-1. Remove lower rifle mount bracket (1) from B-beam. (Refer to TM 9-2320-387-24.)
- **5-2.** Locate, mark, and drill two 0.159-in. diameter holes marked A in lower rifle mount bracket (1) and install 12V terminal board (4) with two screws (2), lockwashers (3), and nuts (5).
- **5-3.** Install lower rifle mount bracket (1) on B-beam. (Refer to TM 9-2320-387-24.)



5. NUT- MS35649-63 - QTY. 2

Figure 5-8.

- **5-4.** Install 24V terminal board (9) on enclosure panel (6) with three screws (2), three lockwashers (3), and three nuts (5).
- **5-5.** Enlarge two holes marked A in terminal board (7) to 0.196 in. and secure terminal board (7) to enclosure panel (6) with two rivets (8).
- **5-6.** Install three existing relays (11) in holes (12) on enclosure panel (6) with four existing screws (14), four washers (13), and four locknuts (10).



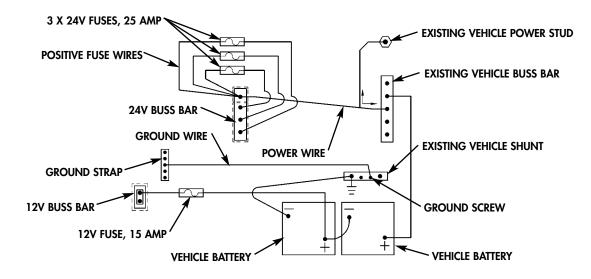
SCREW - MS35206-230 - QTY. 3
 LOCKWASHER - MS35338-41 - QTY. 3
 NUT - MS35649-63 - QTY. 3
 TERMINAL BOARD - 12480570 - QTY. 1
 BLIND RIVET - 12339355-1 - QTY. 2
 LOCKNUT - MS51943-31 - QTY. 4

Figure 5-9.

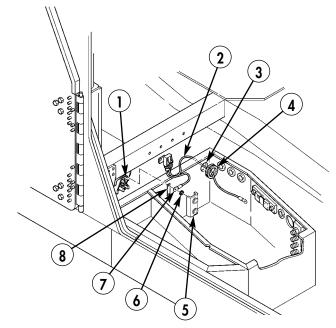
Section VI. FINAL ASSEMBLY, TERMINAL BOARD WIRING, AND TERMINAL LINK

NOTE

- Refer to figure 5-10 for wiring overview.
- Perform steps 6-1 and 6-2 if hole and grommet do not exist in battery box.
- If installing 24V terminal board only, begin with step 6-6.
- 6-1. Locate, mark, and drill 2.00-in. diameter hole (3) in upper right corner of rear wall of battery box.
- **6-2.** Install grommet (4) in hole (3).
- **6-3.** Secure terminal link (8) and fuse wire (7) to 12V terminal board (1) with two locknuts (6) and install cover (5).
- **6-4.** Route wire (2) through battery box hole (3).







- 4. GROMMET 2400 QTY. 1
- 5. TERMINAL BOARD COVER MS18029-3S-2 QTY. 1
- 6. LOCKNUT 271175 QTY. 2
- 7. FUSE WIRE ASSEMBLY (12V) 12480568-2 QTY. 1
- 8. TERMINAL LINK MS25226-6N-2 QTY. 1

6-5. Connect wire (2) to existing positive 12V battery terminal end (10) with existing screw (9) and nut (11).

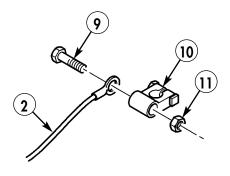
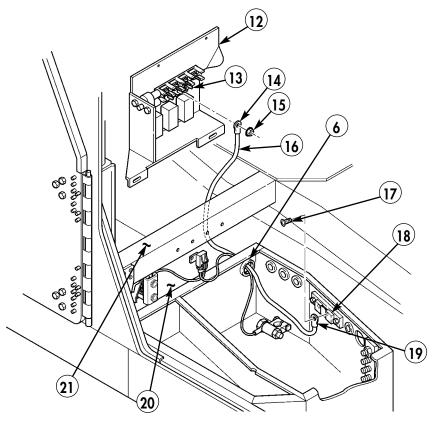


Figure 5-12.

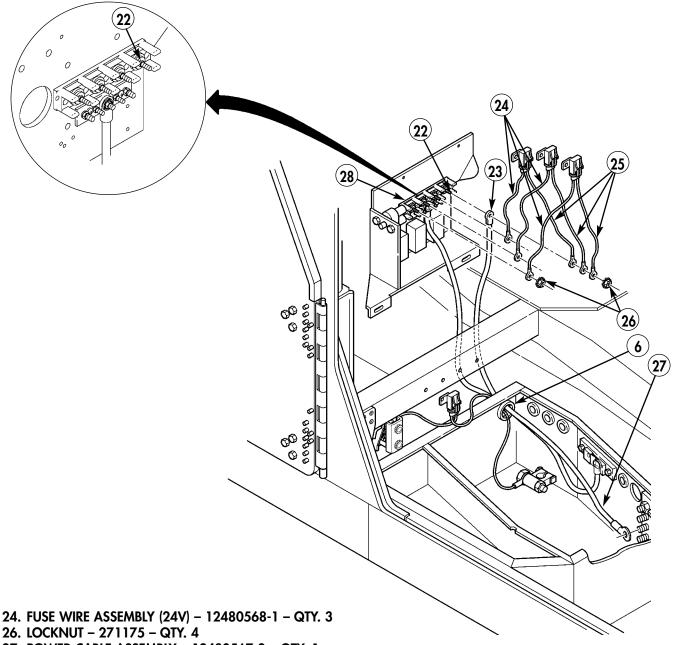
- **6-6.** Position cab enclosure panel (12) in rear floor pan (20) and rear of B-beam (21). Do not secure cab enclosure panel (12) at this time.
- **6-7.** Route ground cable (16) through battery box hole (6).
- **6-8.** Secure terminal lug (14) on center terminal of terminal board (13) with nut (15), and secure terminal lug (19) on shunt (18) with existing screw (17).
- **6-9.** Install four additional plain-assembled nuts (15) on terminal board (13).



15. PLAIN-ASSEMBLED NUT – 271169 – QTY. 5 16. GROUND CABLE ASSEMBLY – 12480567-1 – QTY. 1

Figure 5-13.

- **6-10.** Route 24V power cable (27) through hole (6) and install 24V power cable terminal lug (23) on inboard stud (22) of terminal board (28). Do not secure 24V power cable terminal lug (23) at this time.
- **6-11.** Secure three fuse wires (25) and 24V power cable terminal lug (23) to inboard terminal board stud (22) with locknut (26).
- **6-12.** Secure three remaining fuse wires (24) to corresponding studs on 24V terminal board (28) with three locknuts (26).



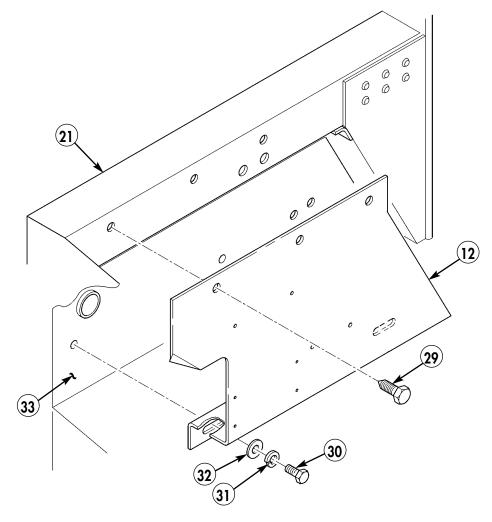
27. POWER CABLE ASSEMBLY - 12480567-2 - QTY. 1

Figure 5-14.

NOTE

For vehicles with new enclosure panel, begin with step 6-14.

- 6-13. Install cab enclosure panel (12). (Refer to TM 9-2320-387-24.)
- 6-14. Secure cab enclosure panel (12) to B-beam (21) with three self-tapping screws (29).
- **6-15.** Secure cab enclosure panel (12) to battery box (33) with two capscrews (30), lockwashers (31), and washers (32).



- 29. SELF-TAPPING SCREW 12342499-2 QTY. 3 30. CAPSCREW – B1821BH025C075N – QTY. 2 31. LOCKWASHER – MS35338-48 – QTY. 2
- 32. WASHER MS51412-23 QTY. 2

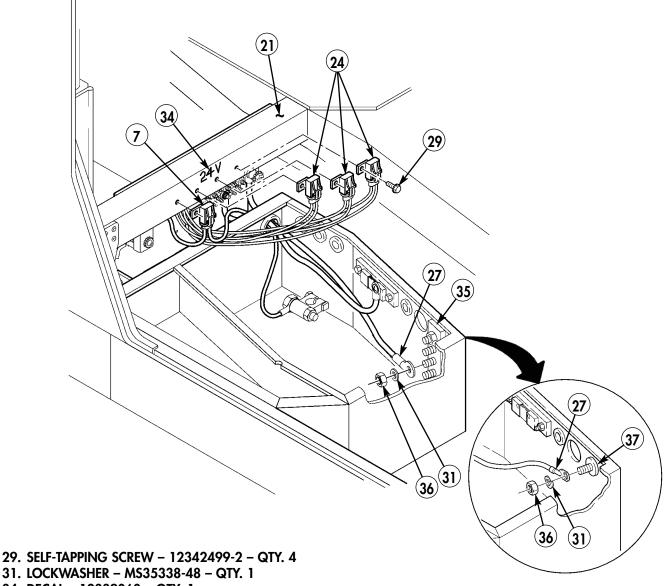
Figure 5-15.

6-16. Secure three 24V fusewire assemblies (24) and one 12V fusewire assembly (7) to B-beam (21) with four self-tapping screws (29).

NOTE

For models equipped with power stud, perform step 6-17. Otherwise, proceed to step 6-18.

- **6-17.** Secure 24V terminal board power wire terminal lug (27) to power stud (37) with lockwasher (31) and existing nut (36).
- **6-18.** Secure 24V terminal board power wire terminal lug (27) to terminal board (35) with lockwasher (31) and existing nut (36).
- **6-19.** Install decal (34) on B-beam (21).
- 6-20. If previously removed, install right-hand rear fixed door. (Refer to TM 9-2320-387-24.)
- 6-21. Install batteries. (Refer to TM 9-2320-387-24.)

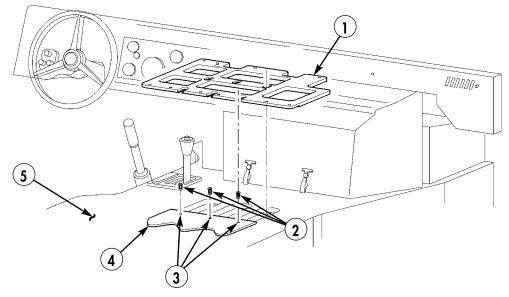


34. DECAL - 12339060 - QTY. 1

Section VII. INTEGRATED RACK MOUNTING **NOTE**

Perform steps 7-1 and 7-2 if blast shield is installed. Perform steps 7-3 and 7-4 if blast shield is not installed.

- **7-1.** Using rack support (1) as template, locate, mark, and drill three 0.375-in. diameter holes (3) in blast shield (4) and through tunnel (5).
- **7-2.** Install three inserts (2) in holes (3) in blast shield (4).



- 1. RACK SUPPORT 889509-22 QTY. 1
- 2. INSERT ALS4-616-150 QTY. 3

Figure 5-17.

- **7-3.** Using rack support (1) as template, locate, mark, and drill three 0.375-in. diameter holes (3) in tunnel (5).
- **7-4.** Install three inserts (2) in holes (3) in tunnel (5).

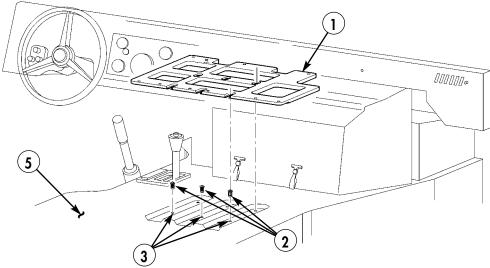
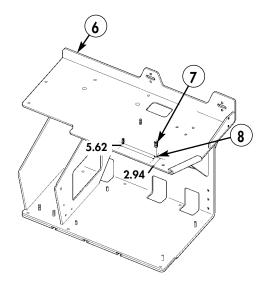


Figure 5-18.

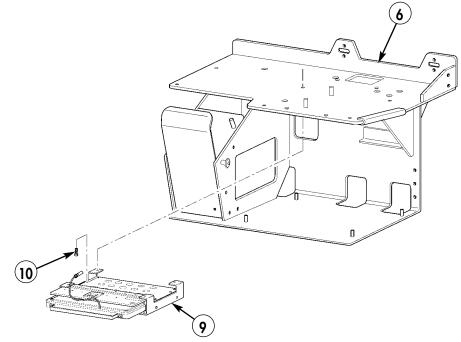
- 7-5. Locate, mark, and drill 0.531-in. diameter hole (8) in FBCB2 integrated rack (6).
- **7-6.** Install insert (7) in hole (8) in FBCB2 integrated rack (6).



8. INSERT - 12446871-11 - QTY. 1

Figure 5-19.

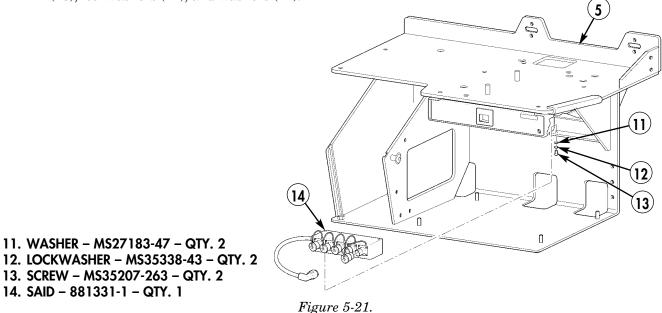
7-7. Mount keyboard stowage box (9) on FBCB2 integrated rack (6) using four existing captive screws (10).



9. KEYBOARD STOWAGE BOX - 889519-1 - QTY. 1

Figure 5-20.

7-8. Mount Serial Adapter Interface Device (SAID) (14) to FBCB2 integrated rack (5) using two screws (13), lockwashers (12), and washers (11).

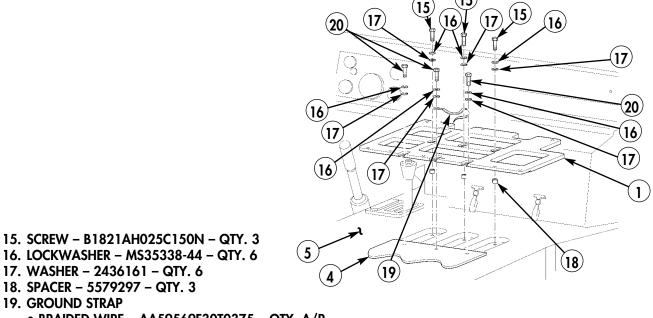


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7-9. Fabricate ground strap (19) from 8.00-in. length of braided wire and two terminal lugs.

NOTE

- Perform step 7-10 if blast shield is installed.
- Perform step 7-11 if blast shield is not installed.
- **7-10.** Mount rack support (1) on blast shield (4) and tunnel (5) with three screws (20), lockwashers (16), washers (17), and ground strap (19), and three existing screws (15), lockwashers (16), washers (17), and spacers (18). Do not tighten screws (20) and (15) at this time.



- BRAIDED WIRE AA59569F30T0375 QTY. A/R
- TERMINAL LUG MS20659-141 QTY. 2
- 20. SCREW B1821AH025C100N QTY. 3

Figure 5-22.

7-11. Mount rack support (1) on tunnel (5) with three screws (20), lockwashers (16), washers (17), and ground strap (19), and three existing screws (15), lockwashers (16), washers (17), and spacers (18). Do not tighten screws (20) and (15) at this time.

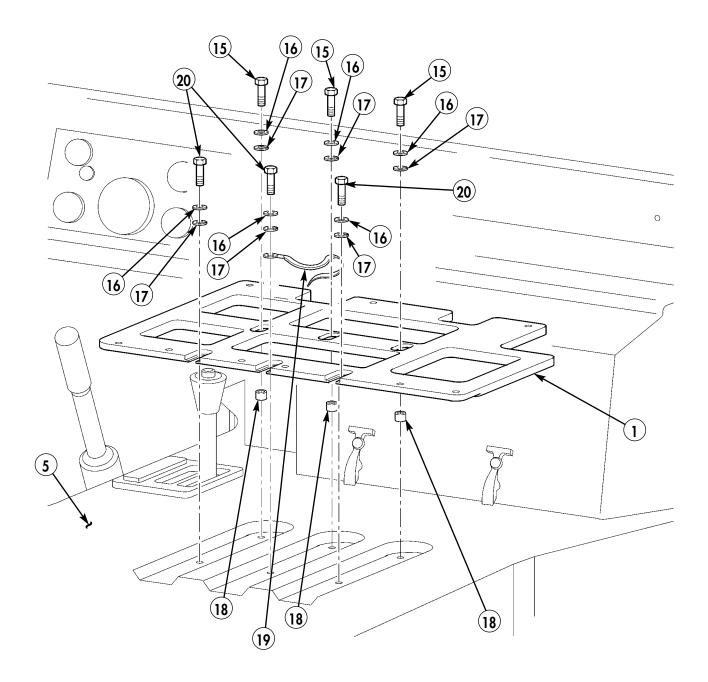


Figure 5-23.

NOTE

Blast shield may not be present in steps 7-11 through 7-27.

- **7-12.** Place FBCB2 integrated rack (4) in position on rack support (1).
- 7-13. Align FBCB2 integrated rack (4) top mounting holes (21) with holes (22) in dash panel (23).
- **7-14.** Remove FBCB2 integrated rack (4) from rack support (1).
- 7-15. Tighten three screws (15) and three screws (20) securing rack support (1) to tunnel (5).

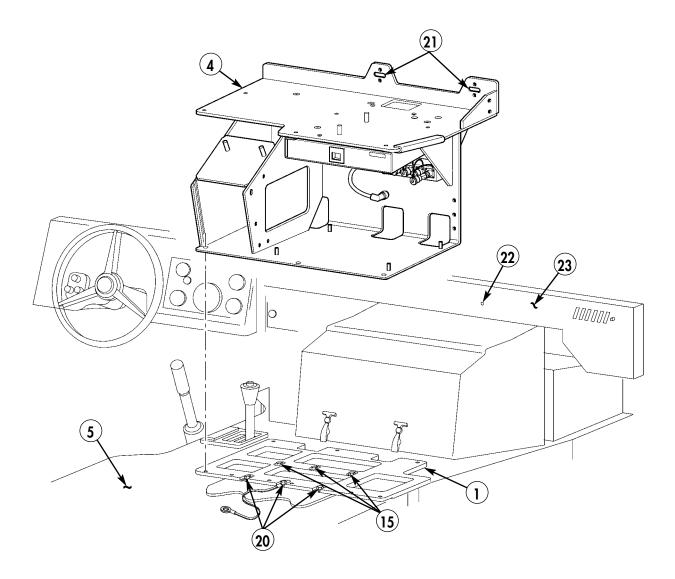
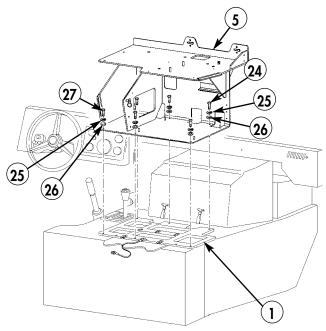


Figure 5-24.

- 7-16. Place FBCB2 integrated rack (5) in position on rack support (1).
- **7-17.** Mount FBCB2 integrated rack (5) on rack support (1) using five screws (24), lockwashers (25), and washers (26), and one screw (27), lockwasher (25), and washer (26).



24. SCREW - B1821BH025C088N - QTY. 5

- 25. LOCKWASHER MS35338-44 QTY. 6
- 26. WASHER MS27183-10 QTY. 6
- 27. SCREW B1821AH025C063N QTY. 1

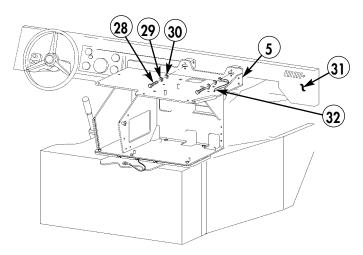
Figure 5-25.

7-18. Fabricate ground strap (32) from 8-in. length of braided wire and two terminal lugs.

NOTE

Remove paint from vicinity of FBCB2 integrated rack mounting hole before performing step 7-18. Apply antiseize compound as required.

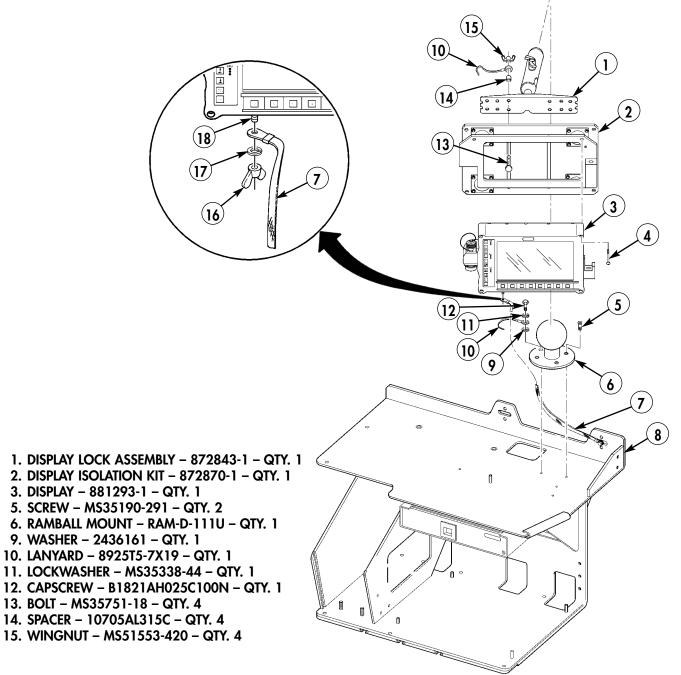
7-19. Attach FBCB2 integrated rack (5) to dash panel (31) using two screws (28), lockwashers (29), washers (30), and ground strap (32).



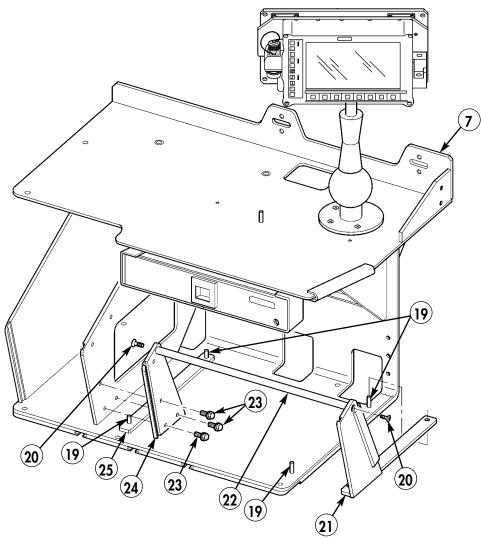
- 28. SCREW B1821AH025C100N QTY. 2
- 29. LOCKWASHER MS35338-44 QTY. 2
- 30. WASHER 2436161 QTY. 2
- 32. GROUND STRAP
 - BRAIDED WIRE AA59569F30T0375 QTY. A/R
 - TERMINAL LUG MS20659-141 QTY. 2

Section VIII. SINCGARS MOUNTING TRAY, AMP GUARD, AND FBCB2 COMPONENTS INSTALLATION

- **8-1.** Install ramball mount (6) on integrated rack (8) with two screws (5) and one capscrew (12), one lockwasher (11), one lanyard (10), and one washer (9).
- **8-2.** Install display isolation kit (2) on display unit mount (1) with four bolts (13), spacers (14), one lanyard (10), and four wingnuts (15).
- **8-3.** Install display unit (3) on display isolation kit (2) with four existing screws (4).
- 8-4. Install display unit mount (1) on Ramball mount (6).
- **8-5.** Install existing ground strap (7) on display ground stud (18) with existing lockwasher (17) and wingnut (16).



- 8-6. Place mounting bracket (25) on two existing studs (19).
- 8-7. Attach rod (22) to left rail weldment (24) and right rail weldment (21) with two screws (20).
- **8-8.** Place rail assembly on two right-hand studs (19) on FBCB2 integrated rack (7) and attach left rail weldment (24) to FBCB2 integrated rack (7) with three screws (23).

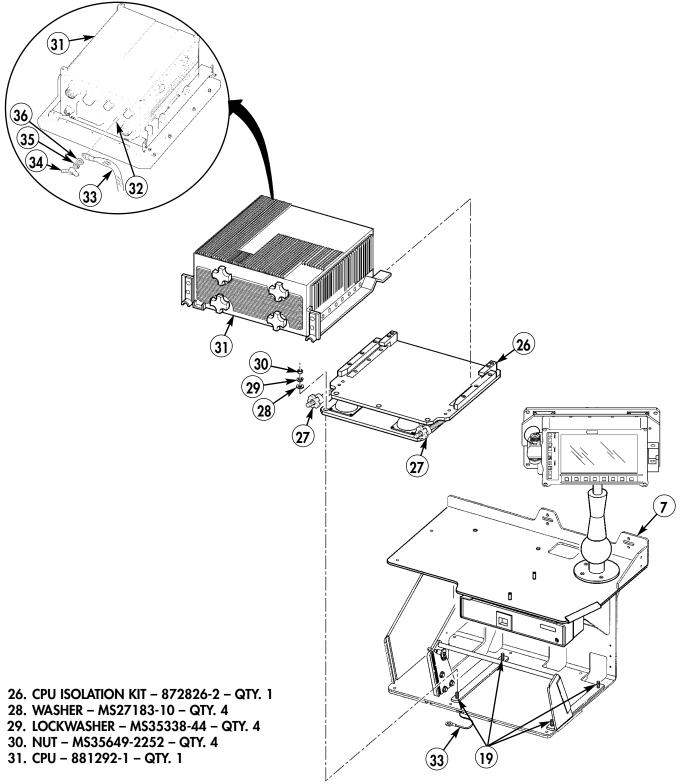


19. SCREW – MS35190-287 – QTY. 2

- 21. RIGHT RAIL WELDMENT 889567-22 QTY. 1
- 22. ROD 889567-16 QTY. 1
- 23. SCREW B1821AH025C075N QTY. 3
- 24. LEFT RAIL WELDMENT 889567-12 QTY. 1
- 25. MOUNTING BRACKET 889567-14 QTY. 1

Figure 5-28.

- **8-9.** Mount CPU isolation kit (26) on FBCB2 integrated rack (7) with four existing studs (19), washers (28), lockwashers (29), and nuts (30).
- 8-10. Attach CPU (31) to CPU isolation kit (26) with two existing fastener guards (27).
- **8-11.** Attach existing ground strap (33) to stud (32) on CPU (31) with existing wing nut (34), lockwasher (35), and washer (36).



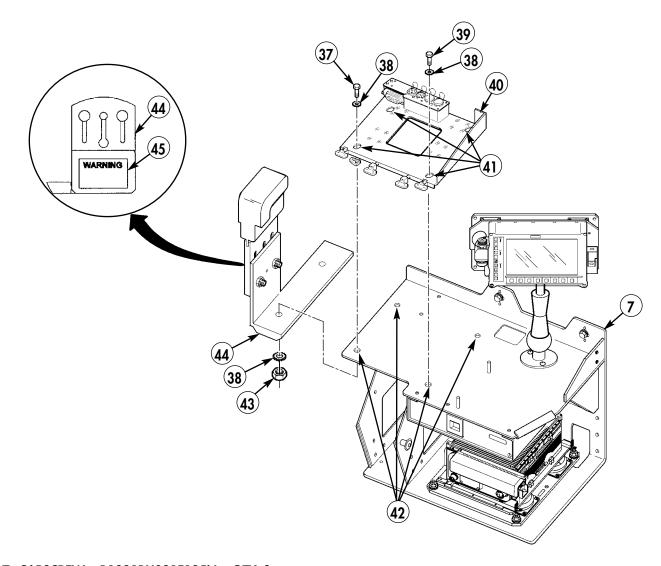


- **8-12.** Remove paint from four mounting holes (42) on integrated rack (7). Apply anti-seize compound as required.
- **8-13.** Remove paint from four mounting holes (41) on MT-6352/VRC mounting base (40). Apply anti-seize compound as required.

NOTE

Two lockwashers and nuts are used on driver's side screws only.

- **8-14.** Mount MT-6352/VRC mounting base (40) and amp guard (44) on integrated rack (7) with two screws (37), four lockwashers (38), two nuts (43). Secure MT-6352/VRC mounting base (40) to integrated rack (7) with two capscrews (39) and two lockwashers (38).
- 8-15. Place warning decal (45) on amp guard (44).

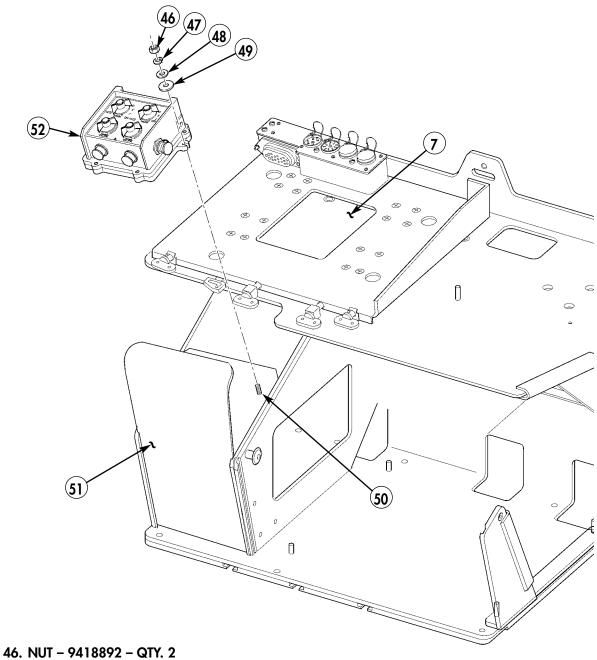


37. CAPSCREW - B1821BH031F125N - QTY. 2
38. LOCKWASHER - MS45904-72 - QTY. 6
39. CAPSCREW - B1821BH031F100N - QTY. 2
40. MOUNTING BASE, MT-6352/VRC - A3013367-1 - QTY. 1
43. NUT - 9418892 - QTY. 2

- 44. AMP GUARD 872842-1 QTY. 1
- 45. DECAL 861868-2 QTY. 1

Figure 5-30.

- **8-16.** Insert weldment (51) in grooves of FBCB2 integrated rack (7).
- 8-17. Mount Full Function Control Station (FFCS) (52) on weldment (51) using two existing studs (50), two washers (49), two washers (48), two lockwashers (47), and two nuts (46).



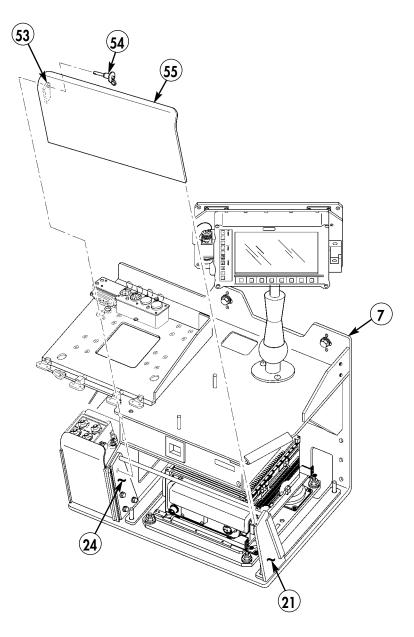
47. LOCKWASHER - MS35338-45 - QTY. 2

- 48. WASHER 2436162 QTY. 2
- 49. WASHER 2436164 QTY. 2

52. FFCS - A3206624 - QTY. 1

Figure 5-31.

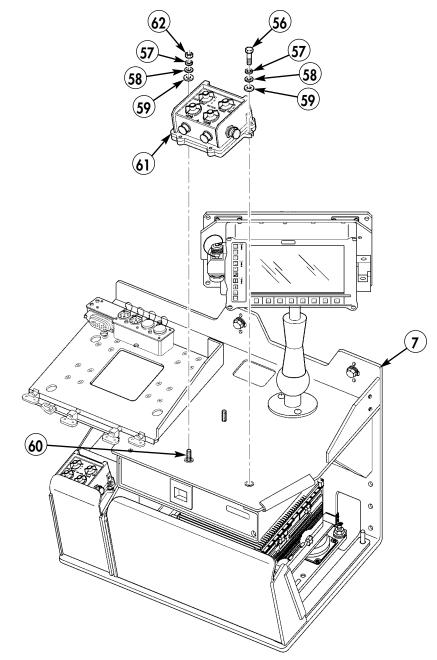
- 8-18. Insert footrest weldment (55) in grooves of right rail weldment (21) and left rail weldment (24).
- **8-19.** Insert existing quick-release pin (54) through holes (53) in footrest weldment (55), left rail weldment (24), and FBCB2 integrated rack (7).



55. FOOTREST WELDMENT - 889567-21 - QTY. 1

Figure 5-32.

8-20. Mount master control station (61) on FBCB2 integrated rack (7) using existing stud (60), washer (59), washer (58), lockwasher (57), and nut (62), and screw (56), lockwasher (57), washer (58), and washer (59).

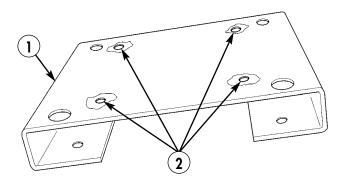


56. SCREW - B1821BH031F125N - QTY. 1 57. LOCKWASHER - MS35338-45 - QTY. 2 58. WASHER - 2436162 - QTY. 2 59. WASHER - 2436164 - QTY. 2 61. MASTER CONTROL STATION - A3206623 - QTY. 1 62. NUT - 9417954 - QTY. 1

Figure 5-33.

Section IX. EPLRS MOUNTING INSTALLATION

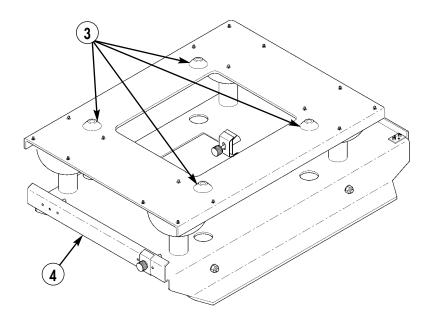
9-1. Remove paint from vicinity of four mounting holes (2) on C-bracket mount (1). Apply anti-seize compound as required.



1. C-BRACKET MOUNT - A3046202 - QTY. 1

Figure 5-34.

9-2. Remove paint from vicinity of four mounting holes (3) on bottom of MT-6146/VSQ-1 mount (4).



4. RESILIENT MOUNT - MT-6146/VSQ-1 - QTY. 1

Figure 5-35.

- **9-3.** Using C-bracket mount (1) as template, locate, mark, and drill four 0.531-in. diameter holes (11) in right-rear wheelhouse (10).
- **9-4.** Install four inserts (5) in right-rear wheelhouse (10).
- 9-5. Install C-bracket (1) on right-rear wheelhouse (10) with four screws (8) and lockwashers (7).
- **9-6.** Install resilient mount (4) on C-bracket mount (1) with four screws (9), eight lockwashers (7), and four nuts (6).

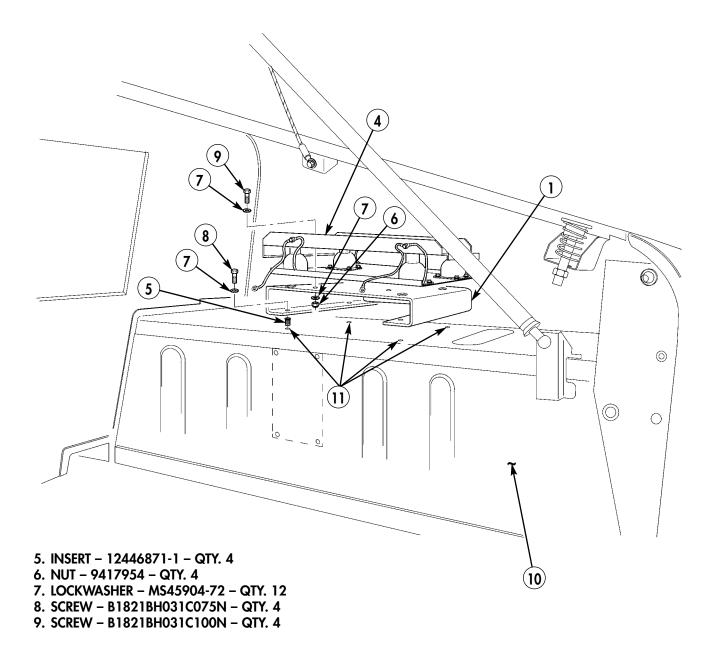
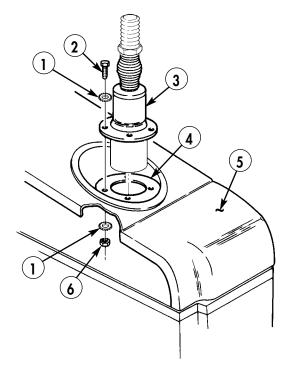


Figure 5-36.

Section X. EPLRS ANTENNA INSTALLATION

10-1. Install antenna (3) and gasket (4) on right rear cargo shell (5) with four screws (2), eight lockwashers (1), and four nuts (6).

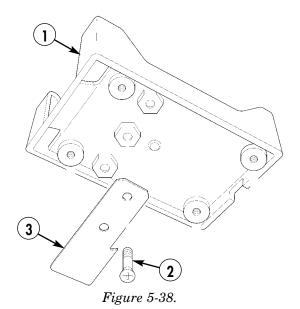


- 1. LOCKWASHER MS45904-76 QTY. 8
- 2. SCREW MS35307-365 QTY. 4
- 3. ANTENNA A3005031 QTY. 1
- 4. GASKET A3013655-1 QTY. 1
- 6. NUT 9418931 QTY. 4

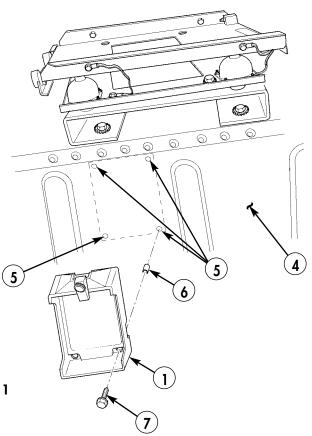
Figure 5-37.

Section XI. EPLRS USER READOUT (URO) INSTALLATION

11-1. Remove two existing screws (2) and connector bracket (3) from URO bracket (1).



- **11-2.** Using URO bracket (1) as template, mark and drill four 0.147-in. holes (5) in right-rear wheelhouse (4).
- **11-3.** Install URO bracket (1) on right-rear wheelhouse (4) with four self-tapping screws (7) and spacers (6).



1. USER READOUT BRACKET (URO) - A3006206 - QTY. 1

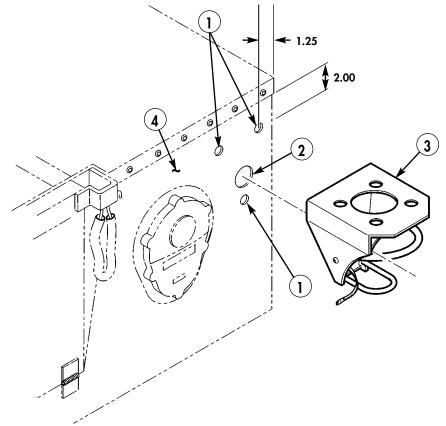
6. SPACER - 92510A318 - QTY. 4

7. SELF-TAPPING SCREW - 9426635 - QTY. 4

Figure 5-39.

Section XII. SINCGARS ANTENNA INSTALLATION

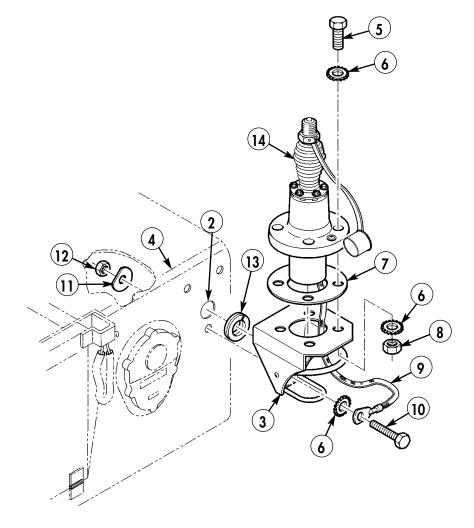
- **12-1.** Using antenna bracket (3) as template, locate, mark, and drill 1.375-in. diameter hole (2) in rear wall (4).
- **12-2.** Locate, mark, and drill three 0.343-in. diameter holes (1) in rear wall (4).
- **12-3.** Remove paint from vicinity of three holes (1) and three holes in rear of antenna bracket (3).
- **12-4.** Apply anti-seize compound to three holes (1) and rear of antenna bracket (3).



3. ANTENNA MOUNTING BRACKET - A3014546 - QTY. 1

Figure 5-40.

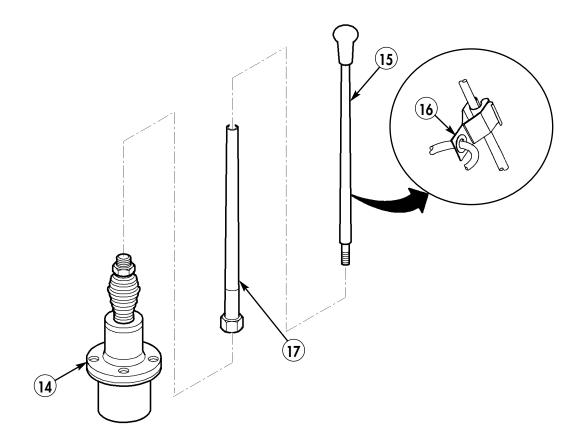
- **12-5.** Install grommet (13) in hole in rear wall (4).
- **12-6.** Position antenna with base (14) and gasket (7) on antenna bracket (3) and feed existing ground strap (9) through antenna bracket (3).
- **12-7.** Attach antenna with base (14) to antenna bracket (3) with four screws (5), eight lockwashers (6), and four nuts (8).
- **12-8.** Attach antenna bracket (3) to rear wall (4) with two screws (10), two lockwashers (6), two washers (11), and two nuts (12).
- **12-9.** Attach existing ground strap (9) and antenna bracket (3) to rear wall (4) with screw (10), lockwasher (6), washer (11), and nut (12).



- 5. SCREW MS35307-365 QTY. 4
- 6. LOCKWASHER MS45904-72 QTY. 11
- 7. GASKET A3013655-1 QTY. 1
- 8. NUT 13218E0320-293 QTY. 4
- 10. SCREW B1821BH031F125N QTY. 3
- 11. WASHER 12338095 QTY. 3
- 12. NUT 9418892 QTY. 3
- 13. GROMMET 12338098 QTY. 1
- 14. ANTENNA WITH BASE A3017899-2 QTY. 1

Figure 5-41.

- **12-10.** Attach upper antenna element (15) to lower antenna element (17).
- **12-11.** Attach antenna assembly to antenna with base (14).
- 12-12. Attach fiber rope assembly (16) to upper antenna element (15).
- **12-13.** Repeat steps 12-1 through 12-12 for other side of vehicle, if applicable.

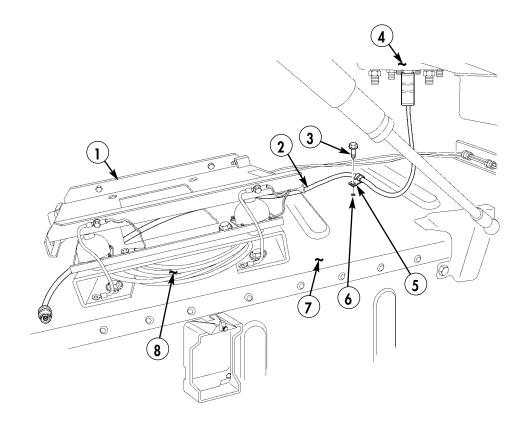


- 15. UPPER ANTENNA ELEMENT A3017901-2 QTY. 2
- 16. FIBER ROPE ASSEMBLY A3167672-1 QTY. 2
- 17. LOWER ANTENNA ELEMENT A3018230-1 QTY. 2

Figure 5-42.

Section XIII. CABLES INSTALLATION

- **13-1.** Drill one 0.147-in. hole (6) in right-rear wheelhouse (7) between mount assembly (1) and antenna (4).
- **13-2.** Connect antenna cable (2) to antenna (4) and route cable behind mount assembly (1), leaving enough cable length to connect to opposite side of EPLRS unit. Coil excess cable (8) and store under mount assembly (1).
- **13-3.** Secure antenna cable (2) to right-rear wheelhouse (7) with clamp (5) and self-tapping screw (3).



- 2. EPLRS ANTENNA CABLE SM-C-911480 QTY. 1
- 3. SELF-TAPPING SCREW 9421073 QTY. 1
- 5. CLAMP MS21333-69 QTY. 1

Figure 5-43.

13-4. Remove twelve screws (9), four screws (11), and cargo floor cover (10) from cargo floor (12). Retain all screws (9) and (11).

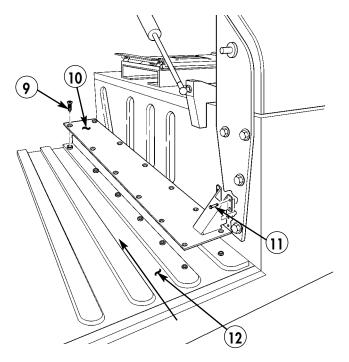
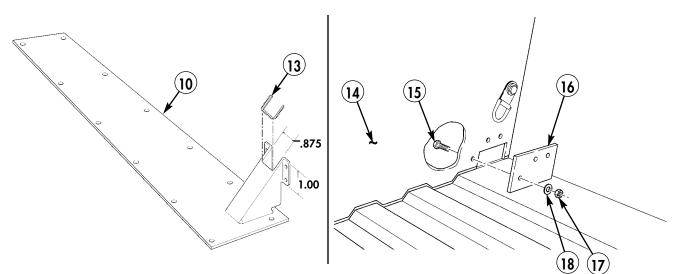


Figure 5-44.

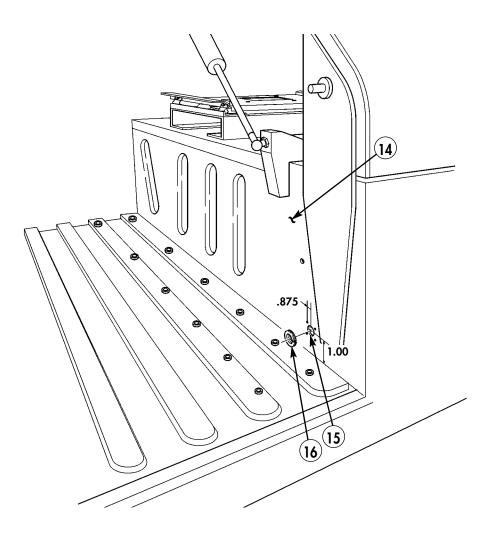
- **13-5.** Cut notch in cargo floor cover (10) as shown.
- **13-6.** Cut and install grommet material (13) to fit. Secure with RTV compound.
- **13-7.** Remove three screws (15), washers (18), nuts (17), and rear partition access cover (16) from rear partition (14).



13. GROMMET MATERIAL - MS21266-1N - QTY. A/R

Figure 5-45.

- **13-8.** Locate, mark, and drill one 0.750-in. hole (15) in right-rear wheelwell (14).
- **13-9.** Insert grommet (16) in hole (15) in right-rear wheelwell (14).



16. GROMMET - MS35498-149 - QTY. 1

Figure 5-46.

13-10. Remove three screws (17) and cargo floor cover (18) from cargo floor (12) behind right-rear seat (19).

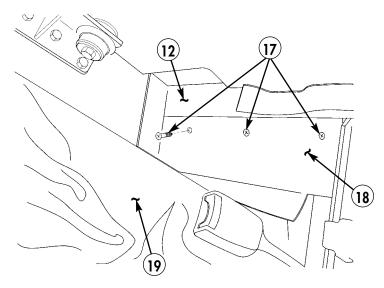
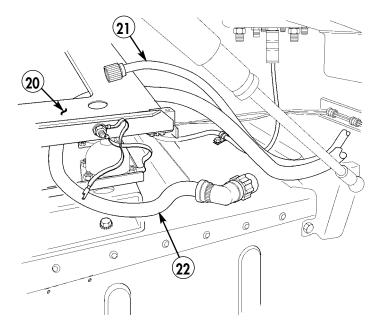


Figure 5-47.

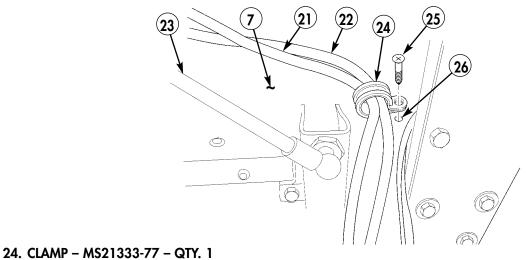
13-11. Lay EPLRS power cable (22) and INC-EPUU cable (21) connectors in vicinity of EPLRS mount (20). Ensure enough slack in cables to connect to equipment when installed.



21. INC-EPUU CABLE – A3279383-3 – QTY. 1 22. EPLRS POWER CABLE – A3004939 – QTY. 1

Figure 5-48.

- **13-12.** Drill one 0.147-in. diameter hole (26) in right-rear wheelwell (7) near right gas spring (23).
- **13-13.** Secure EPLRS power cable (22) and INC-EPUU cable (21) to right-rear wheelwell (7) with clamp (24) and self-tapping screw (25).



25. SELF-TAPPING SCREW – 9421073 – QTY. 1

Figure 5-49.

13-14. Drill one 0.147-in. diameter hole (27) in right-rear wheelwell (7).

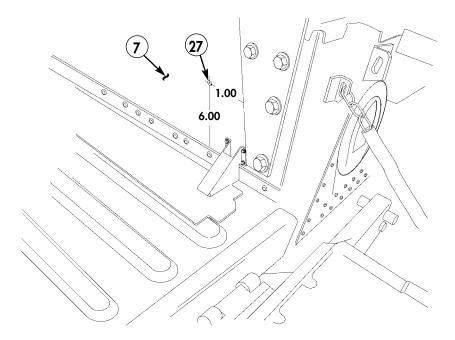
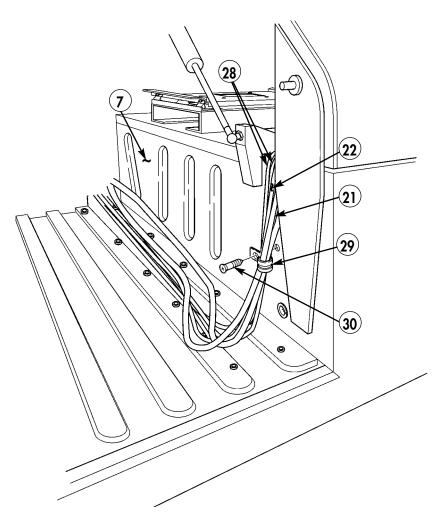


Figure 5-50.

NOTE

If Light Vehicle Obscuration Smoke System (LVOSS) is installed, use a MS21333-77 clamp. If LVOSS is not installed, use a MS21333-75 clamp.

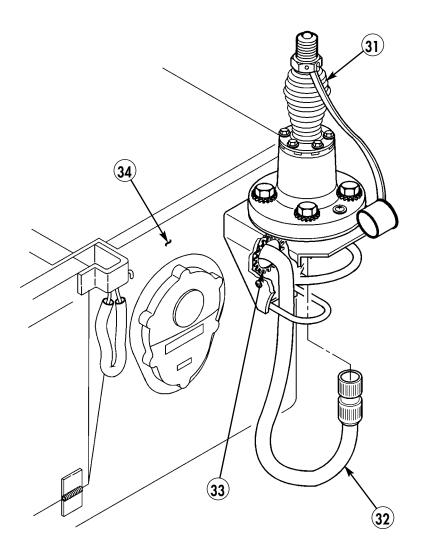
13-15. Route EPLRS power cable (22), INC-EPUU cable (21), and LVOSS cables (28) along rear of right-rear wheelwell (7) with one clamp (29) and screw (30).



29. CLAMP - MS21333-77 - QTY. 1 30. SELF-TAPPING SCREW - 9421073 - QTY. 1

Figure 5-51.

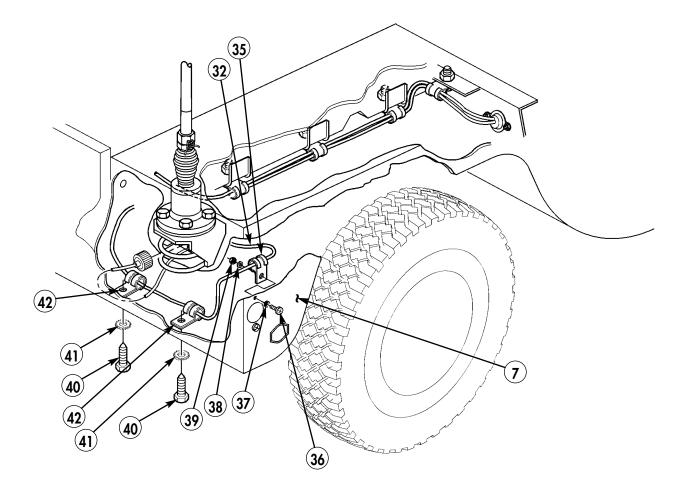
- **13-16.** Connect SINCGARS antenna cable (32) to SINCGARS antenna (31).
- **13-17.** Feed SINCGARS antenna cable (32) through hole (33) in rear wall (34).



32. SINCGARS ANTENNA CABLE - A3014031-8 - QTY. 1

Figure 5-52.

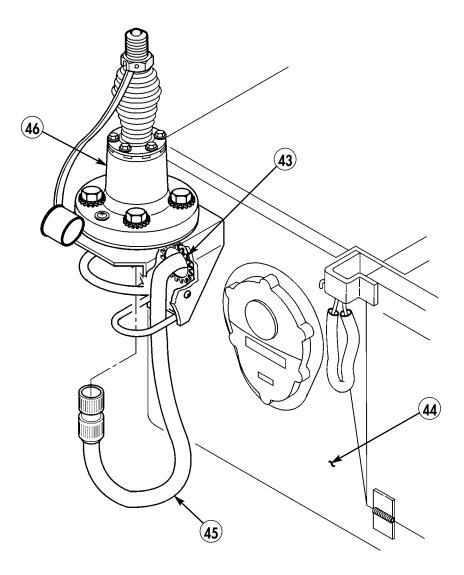
- **13-18.** Route SINCGARS antenna cable (32) along outer wall of right-rear wheelwell (7) with loop clamp (35), existing screw (36), washer (37), lockwasher (38), and nut (39).
- **13-19.** Route SINCGARS antenna cable (32) along taillight wiring harness with two existing loop clamps (42), two self-tapping screws (40), and two lockwashers (41).



35. LOOP CLAMP - MS21333-98 - QTY. 1

Figure 5-53.

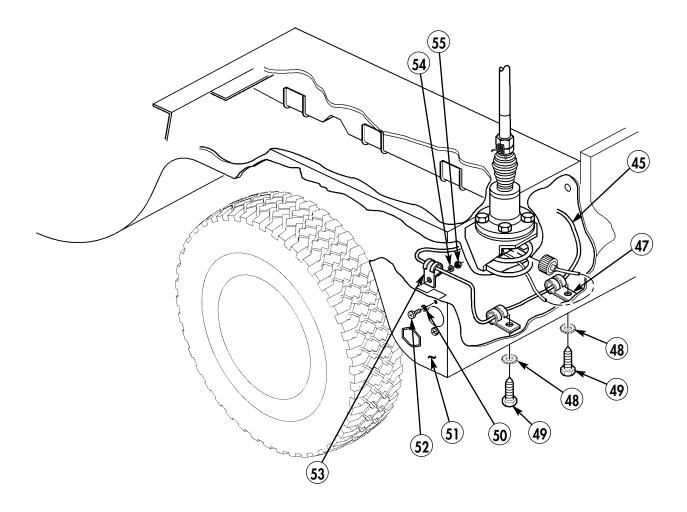
- **13-20.** Attach SINCGARS antenna cable (45) to antenna base (46).
- **13-21.** Feed SINCGARS antenna cable (45) through hole (43) in rear wall (44).



45. SINCGARS ANTENNA CABLE – A3014031-17 – QTY. 1

Figure 5-54.

- **13-22.** Route SINCGARS antenna cable (45) along left-rear wheelwell wall (51) with loop clamp (53), existing screw (52), washer (50), lockwasher (54), and nut (55).
- **13-23.** Route SINCGARS antenna cable (45) along existing taillight wiring harness on left-side frame rail with two existing loop clamps (47), two self-tapping screws (49), and two lockwashers (48).



53. LOOP CLAMP - MS21333-98 - QTY. 1

Figure 5-55.

13-24. Route SINCGARS antenna cable (45) along existing taillight wiring harness (56) on rear cargo bed support and secure with five existing loop clamps (57) and existing self-tapping screws (58).

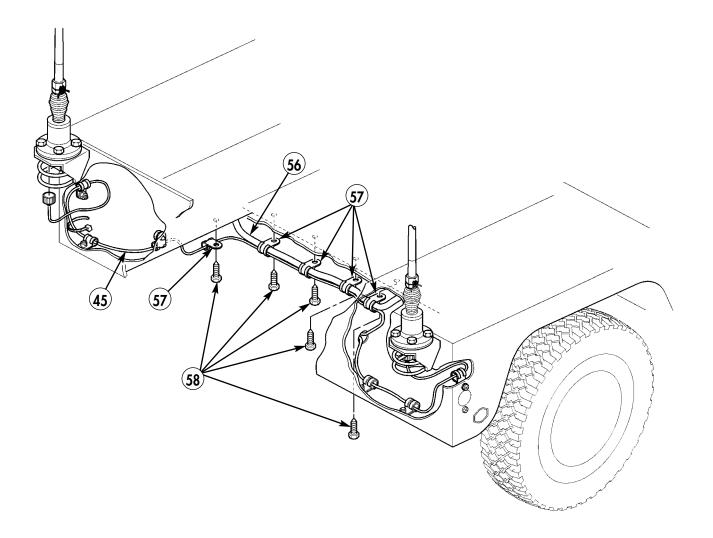


Figure 5-56.

13-25. Feed SINCGARS antenna cables (32) and (45) through hole and grommet (59) in right-rear wheelwell (60).

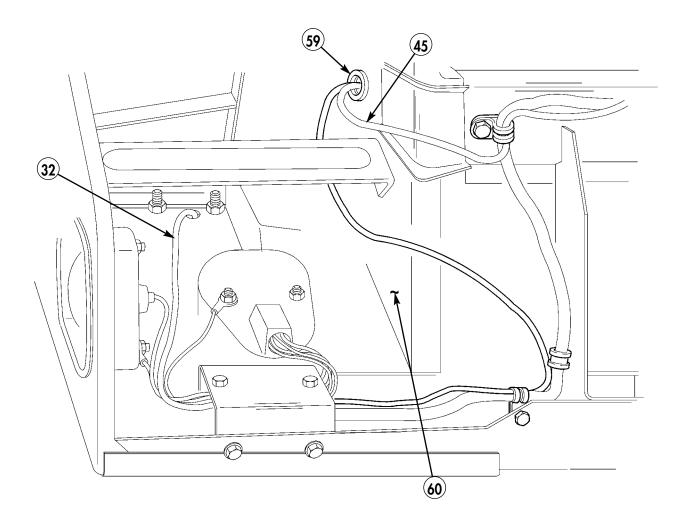


Figure 5-57.

13-26. Route EPLRS power cable (22), INC-EPUU cable (21), LVOSS cables (28), and SINCGARS antenna cables (32) and (45) along channel of cargo floor (12) towards front of vehicle.

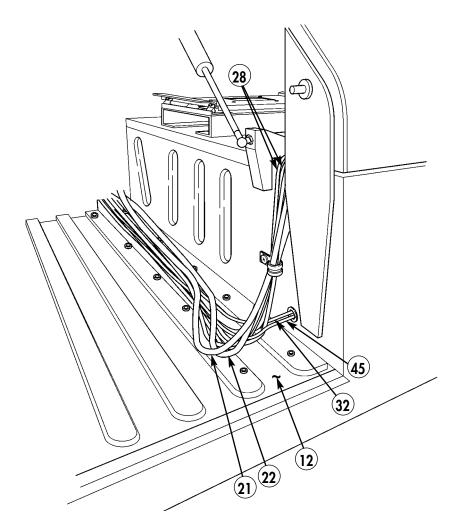


Figure 5-58.

13-27. Bundle all cables (62) and install in side channel (61) of cargo floor cover (10).

NOTE

Ensure all cables fit neatly within cargo floor channel before installing cargo floor cover.

13-28. Install cargo floor cover (10) on cargo floor (12) with twelve existing screws (9) and four screws (11) retained in step 13-4.

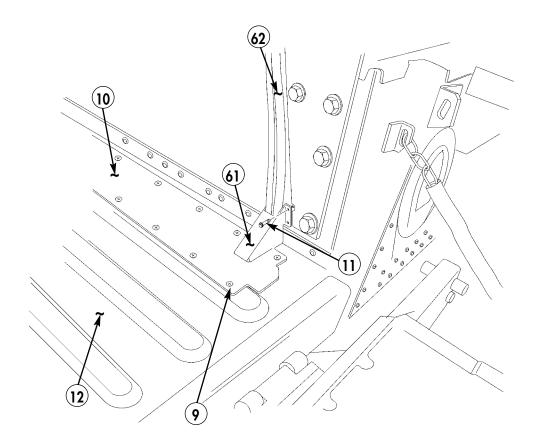
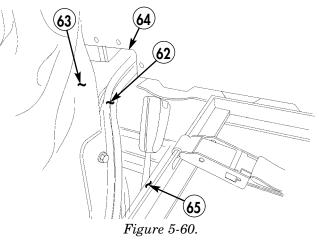


Figure 5-59.

13-29. Route all cables (62) forward from step 13-26 through cargo access hole (64) and in between tunnel (65) and right-rear seat (63).



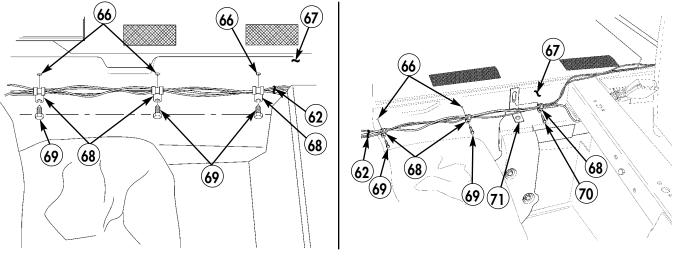
NOTE

- Perform steps 13-30 and 13-31 if supplemental heater is not installed. Perform 13-32 and 13-33 if supplemental heater is installed.
- Use MS21333-75 clamp if LVOSS is not installed. Use MS21333-77 if LVOSS is installed.
- 13-30. Locate, mark, and drill three 0.147-in. diameter holes (66) in side of tunnel (67), evenly spaced.
- **13-31.** Secure all cables (62) to side of tunnel (67) with three clamps (68) and self-tapping screws (69).

NOTE

Use MS21333-75 clamp if LVOSS is not installed. Use MS21333-77 if LVOSS is installed.

- 13-32. Locate, mark, and drill two 0.147-in. diameter holes (66) in side of tunnel (67), evenly spaced.
- **13-33.** Secure all cables (62) to side of tunnel (67) with two clamps (68) and self-tapping screws (69), and clamp (68), existing bracket (71), and screw (70).

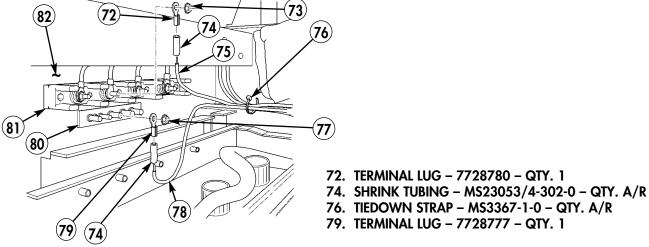


68. CLAMP - MS21333-75 - QTY. 3 69. SELF-TAPPING SCREW - 9421073 - QTY. 3

NOTE

Remove terminal board cover before connecting leads and reinstall cover after leads are connected.

- **13-34.** Attach heat-shrink tubing (74) and two terminal lugs (72) and (79) to power cable negative lead (78) and power cable positive lead (75). (Refer to TM 9-2320-280-20 for terminal connector repair.)
- **13-35.** Connect power cable positive lead (75) to 24V terminal board (81), located on cab enclosure panel (82), with existing nut (73).
- **13-36.** Connect power cable negative lead (78) to ground strap (80), located on cab enclosure panel (82), with existing nut (77). Secure leads (75) and (78) together with tiedown strap (76).





- **13-37.** Route remaining cables to FBCB2 integrated rack (83) using one clamp (85), existing screw (88), lockwasher (87), and washer (86).
- 13-38. Route cables along bar (89) to top of FBCB2 integrated rack (83) with two tiedown straps (84).

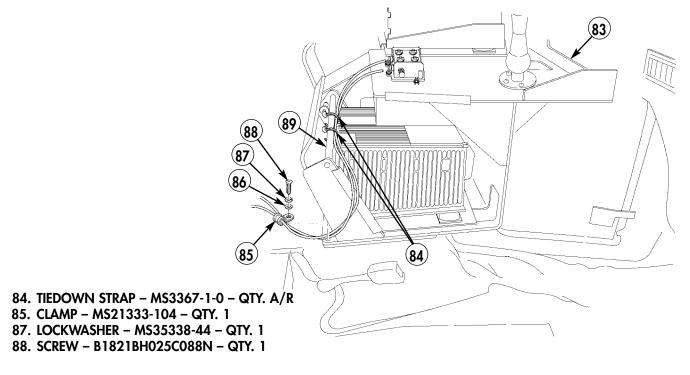
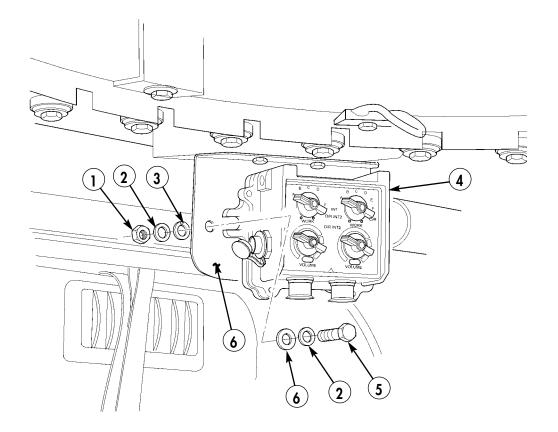


Figure 5-63.

Section XIV. VIC-3 MOUNTING INSTALLATION: FFCS/L

14-1. Install FFCS/L module (5) on existing bracket (6) with two screws (4), lockwashers (3), four washers (2), and two nuts (1).



- 1. NUT 9417954 QTY. 2 2. WASHER - 2436162 - QTY. 4 3. LOCKWASHER - MS35338-45 - QTY. 2 4. SCREW - B1821BH031C150N - QTY. 2
- 5. FFCS/L MODULE A3206624 QTY. 1

Figure 5-64.

Section XV. PLGR MOUNTING BRACKET INSTALLATION

15-1. Locate, mark, and drill two 0.218-in. diameter holes (2) in FBCB2 integrated rack (1).

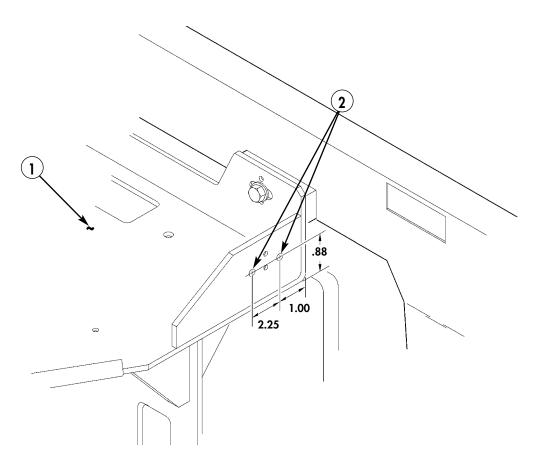
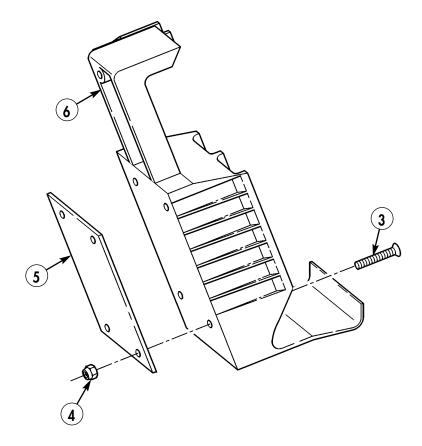


Figure 5-65.

15-2. Secure bracket (5) to two lower holes in PLGR mount (6) with two screws (3) and locknuts (4). Do not tighten locknuts (4).



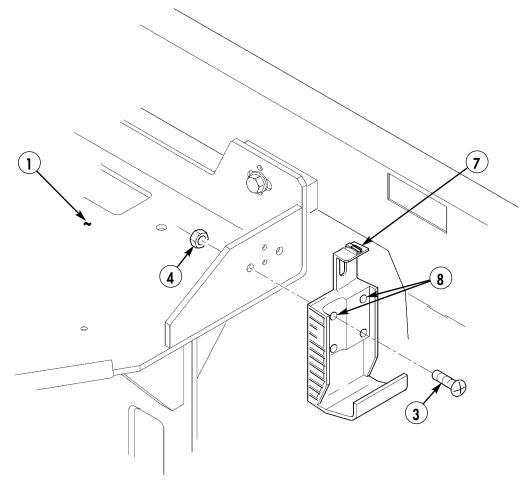
3. SCREW - MS35206-266 - QTY. 2 4. LOCKNUT - MS17829-3C - QTY. 2

5. BRACKET - 12480575 - QTY. 1

Figure 5-66.

TB 9-2320-387-35-2

15-3. Secure PLGR mount and bracket (7) to FBCB2 integrated rack (1) with two screws (3) and locknuts (4), using upper holes (8) only. Do not tighten locknuts (4).

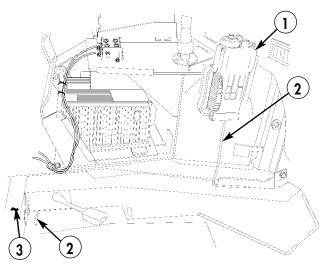


3. SCREW – MS35206-266 – QTY. 2 4. LOCKNUT – MS17829-3C – QTY. 2

Figure 5-67.

Section XVI. PLGR POWER CABLE INSTALLATION

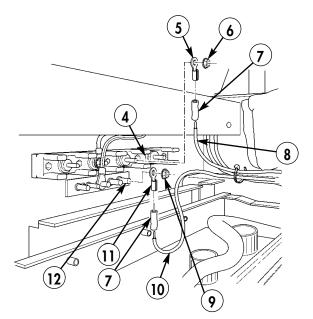
16-1. Route PLGR power cable (2) from PLGR unit (1) to B-beam (3).



2. PLGR POWER CABLE - 9728558-10 - QTY. 1

Figure 5-68.

- **16-2.** Attach shrink tubing (7) and terminal lugs (5) and (11) to PLGR power cable negative lead (10) and PLGR power cable positive lead (8). (Refer to TM 9-2320-280-20-2 or TM 2320-387-24-1 for terminal connector repair.)
- **16-3.** Attach PLGR power cable positive lead (8) to 24V terminal board stud (4) with existing nut (6).
- 16-4. Attach PLGR power cable negative lead (10) to ground strap stud (12) with existing nut (9).



5. TERMINAL LUG - 7728780 - QTY. 1

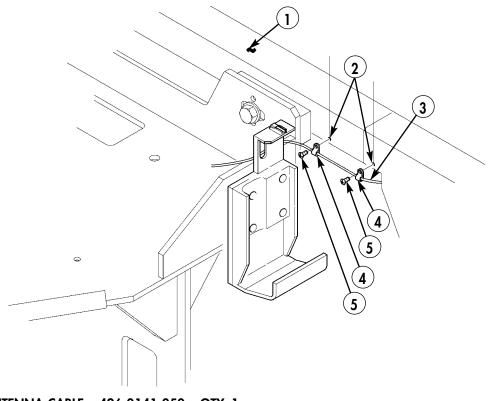
7. SHRINK TUBING - MS23053/4-302-0 - QTY. A/R

12. TERMINAL LUG - 7728777 - QTY. 1

Figure 5-69.

Section XVII. PLGR ANTENNA INSTALLATION AND CABLE ROUTING

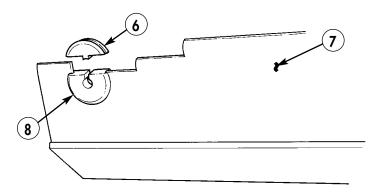
- **17-1.** Remove deep water fording intake stack. (Refer to TM 9-2320-387-24-2.)
- 17-2. Remove right windshield deflector. (Refer to TM 9-2320-387-24-2.)
- **17-3.** Locate, mark, and drill two 0.147-in. diameter holes (2) in plenum (1).
- 17-4. Route PLGR antenna cable (3) along plenum (1) using two clamps (4) and self-tapping screws (5).



- 3. PLGR ANTENNA CABLE 426-0141-050 QTY. 1
- 4. CLAMP MS21333-67 QTY. 2
- 5. SCREW 9416639 QTY. 2

Figure 5-70.

17-5. Cut grommet (6) to fit opening (8) and install in right windshield deflector (7).



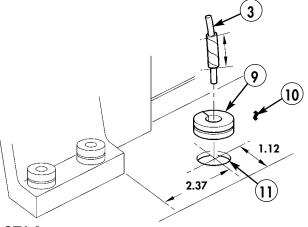
6. GROMMET - 12460299 - QTY. 1

17-6. Locate, mark, and drill 0.562-in. diameter hole (11) in A-frame pillar (10).

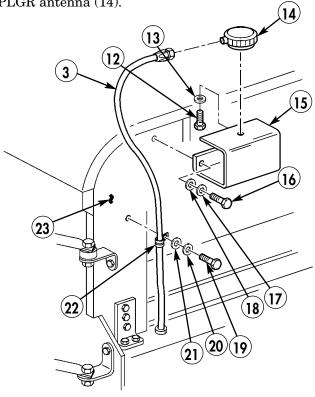
NOTE

Wrap a section of PLGR antenna cable with tape to prevent PLGR antenna cable from being pulled into vehicle.

- **17-7.** Split grommet (9) and insert PLGR antenna cable (3) and grommet (9) in hole (11) in A-frame pillar (10).
- **17-8.** Apply RTV sealant around grommet (9).



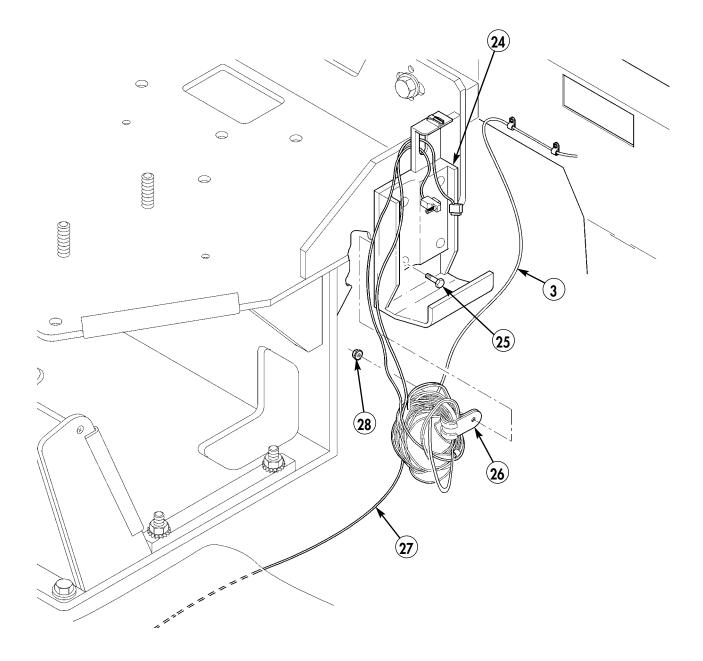
- **9.** GROMMET MS35489-31 QTY. 1 Figure 5-72.
- 17-9. Attach PLGR antenna (14) to support bracket (15) with screw (12) and washer (13).
- **17-10.** Attach support bracket (15) to right windshield armor plate (23) with two existing screws (16), lockwashers (17), and washers (18).
- 17-11. Route PLGR antenna cable (3) along right windshield armor plate (23) with clamp (22), existing screw (19), lockwasher (20), and washer (21).
- 17-12. Connect PLGR antenna cable (3) to PLGR antenna (14).



SCREW - 160046 - QTY. 1
 WASHER - 120217 - QTY. 1
 PLGR ANTENNA - AT575-030 - QTY. 1
 SUPPORT BRACKET - 12460300 - QTY. 1
 CLAMP - MS21333-96 - QTY. 1

Figure 5-73.

17-13. Secure PLGR power cable (27) and PLGR antenna cable (3) to PLGR mount (24) with clamp (26), existing locknut (28), and screw (25). Tighten all locknuts (28).



26. CLAMP - MS21333-76 - QTY. 1

Figure 5-74.

17-14. Install right windshield deflector. (Refer to TM 9-2320-387-24-2.)17-15. Install deep water fording stack. (Refer to TM 9-2320-387-24-2.)

Section XVIII. REAR RADIO RACK INSTALLATION

- **18-1.** Remove transmission control module. (Refer to TM 9-2320-387-24.)
- **18-2.** Remove three screws (2) and washers (1) from left B-pillar turret support assembly (3). Discard screws (2) and washers (1).

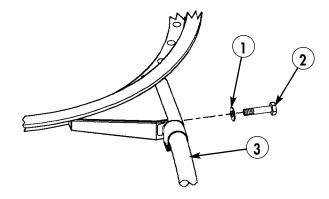
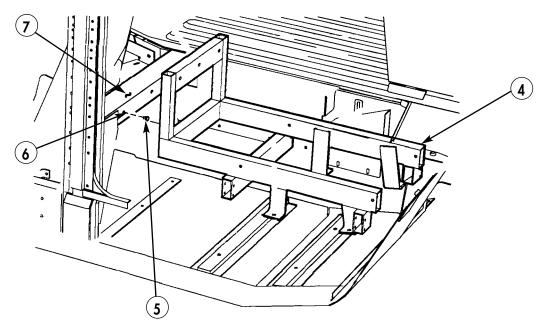


Figure 5-75.

- **18-3.** Using base weldment (4) as template, locate, mark, and drill three 0.125-in. diameter holes (6) in left B-pillar beam (7).
- **18-4.** Enlarge three holes (6) in B-pillar beam (7) to 0.531-in. diameter.
- **18-5.** Install three inserts (5) in B-pillar beam (7).



- 4. BASE WELDMENT A3265774 QTY. 1
- 5. INSERT ALS7-616-150 QTY. 3

Figure 5-76.

- **18-6.** Install forward inboard support leg (11) on forward inboard position of base weldment (4) with screw (12), two washers (10), and locknut (9) through second hole (14) from bottom of forward inboard support leg (11). Do not tighten locknut (9) at this time.
- **18-7.** Apply threadlock compound to threads of two screws (13).
- **18-8.** Secure bottom of forward inboard support leg (11) with two screws (13), washers (10), and weldment spacers (8). Tighten screws (13) to 74 lb-in and locknut (9) to 120 lb-in.
- **18-9.** Install rear inboard support leg (11) on rear inboard position of base weldment (4) with screw (12), two washers (10), weldment spacer (8), and locknut (9) through second hole (14) from bottom of rear inboard support leg (11). Do not tighten locknut (9) at this time.
- **18-10.** Apply threadlock compound to threads of two screws (13).
- **18-11.** Secure bottom of rear inboard support leg (11) with two screws (13), washers (10), and weldment spacers (8). Tighten screws (13) to 74 lb-in and locknut (9) to 120 lb-in.

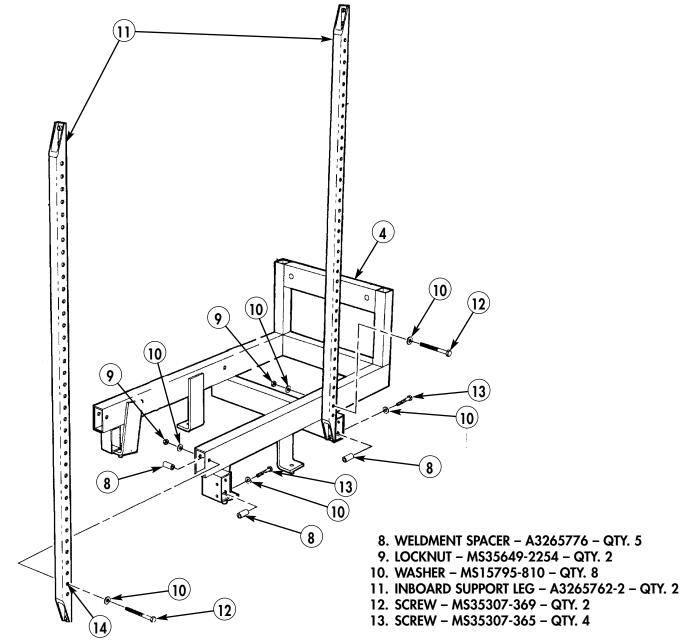
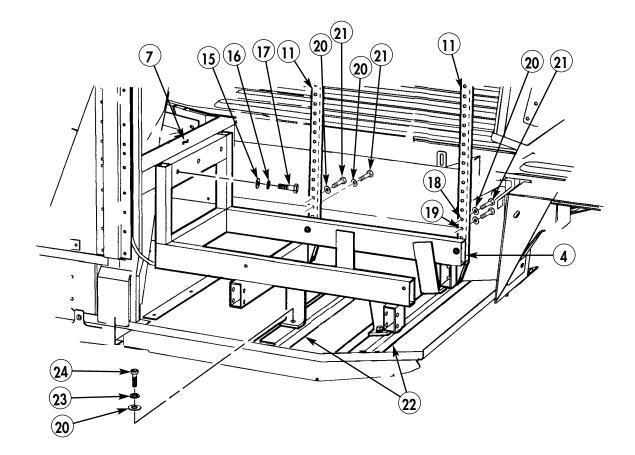


Figure 5-77.

- **18-12.** Insert four screws (21) and washers (20) in fourth (19) and fifth (18) holes from bottom on inboard support legs (11).
- **18-13.** Secure base weldment (4) to left-rear seat half-sections (22) with four screws (24), lockwashers (23), and washers (20).
- **18-14.** Secure base weldment (4) to left B-pillar beam (7) with three screws (17), lockwashers (16), and washers (15). Tighten screws (17) to 23 lb-ft and screws (24) to 156 lb-in.



- 15. WASHER MS15795-814 QTY. 3 16. LOCKWASHER - MS35338-141 - QTY. 3 17. SCREW - MS35307-360 - QTY. 3 20. WASHER - MS15795-810 - QTY. 8 21. SCREW - MS35307-365 - QTY. 4 23. LOCKWASHER - MS35338-140 - QTY. 4
- 24. SCREW MS35307-365 QTY. 4

Figure 5-78.

- 18-15. Install transmission control module. (Refer to TM 9-2320-387-24.)
- **18-16.** Install top mounting weldment (25) on top support (28) with four screws (26), eight washers (27), and four locknuts (29). Tighten locknuts (29) to 120 lb-in.

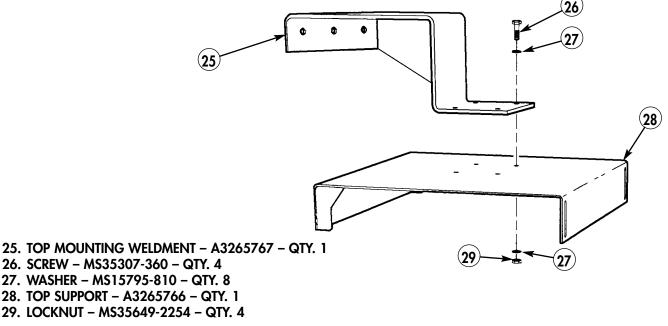
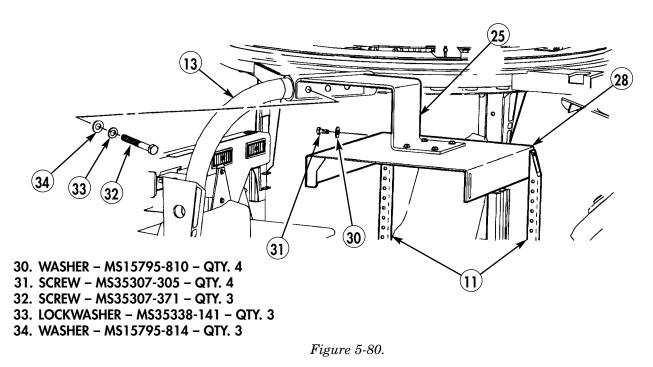


Figure 5-79.

- **18-17.** Attach top mounting weldment (25) to left B-pillar turret support assembly (13) with three screws (32), lockwashers (33), and washers (34). Do not tighten screws (32) at this time.
- **18-18.** Apply threadlock compound to threads of four capscrews (31).
- **18-19.** Secure top support (28) to inboard support legs (11) with four capscrews (31) and washers (30). Do not tighten capscrews (31) at this time.



- **18-20.** Install forward outboard support leg (37) on base weldment (4) with screw (40), two washers (35), and locknut (36). Do not tighten locknut (36) at this time.
- 18-21. Apply threadlock compound to threads of two screws (39).
- **18-22.** Secure bottom of forward outboard support leg (37) to base weldment (4) with two screws (39), washers (35), and weldment spacers (38). Tighten screws (39) to 74 lb-in. and locknut (36) to 120 lb-in.

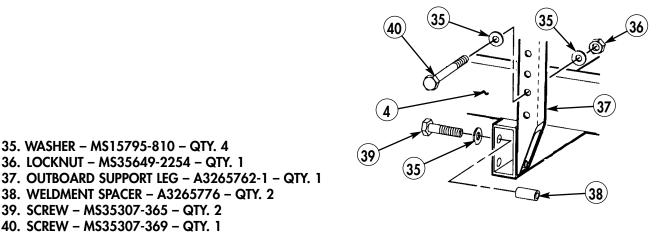
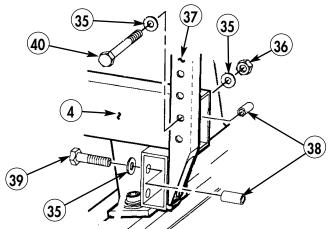


Figure 5-81.

- **18-23.** Install rear outboard support leg (37) on base weldment (4) with screw (40), two washers (35), one weldment spacer (38), and locknut (36). Do not tighten locknut (36) at this time.
- **18-24.** Apply threadlock compound to threads of four screws (39).
- 18-25. Secure bottom of rear outboard support leg (37) to base weldment (4) with two screws (39), washers (35), and weldment spacers (38). Tighten screws (39) to 74 lb-in and locknut (36) to 120 lb-in.

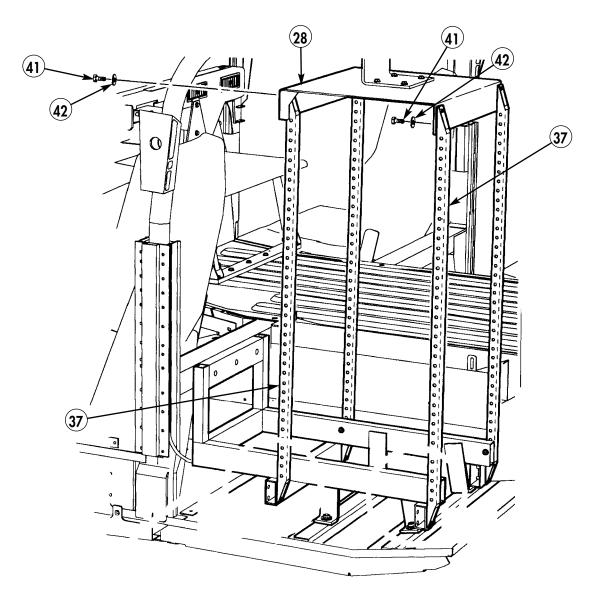


- 35. WASHER MS15795-810 QTY. 4
- 36. LOCKNUT MS35649-2254 QTY. 1
- 37. OUTBOARD SUPPORT LEG A3265762-1 QTY. 1
- 38. WELDMENT SPACER A3265776 QTY. 2
- 39. SCREW MS35307-365 QTY. 2
- 40. SCREW MS35307-369 QTY. 1

Figure 5-82.

TB 9-2320-387-35-2

18-26. Secure top support (28) to outboard support legs (37) with four screws (41) and washers (42). Do not tighten screws (41) at this time.



41. SCREW - MS35307-305 - QTY. 4 42. WASHER - MS15795-810 - QTY. 4

Figure 5-83.

- **18-27.** Temporarily install mounting weldment (47) at holes 14 (51) and 15 (52) from top of rear support legs (43). Secure mounting weldment (47) to rear support legs (43) with four screws (53), eight washers (46), and four locknuts (54). Tighten locknuts (54) enough to secure mounting weldment (47) to rear support legs (43).
- **18-28.** Align rear flange of mounting weldment (47) with left-rear wheelhouse half-section (49), and locate and mark two holes. Use center of slotted holes (50).
- **18-29.** Remove four locknuts (54), eight washers (46), four screws (53), and mounting weldment (47) from rear support legs (43).
- 18-30. Drill two 0.391-in. diameter holes on left-rear wheelhouse half-section (49).
- 18-31. Install two inserts (48) in left-rear wheelhouse half-section (49).
- **18-32.** Install mounting weldment (47) on rear support legs (43) at holes 14 (51) and 15 (52) from top with four screws (53), eight washers (46), and four locknuts (54). Do not tighten locknuts (54) at this time.
- **18-33.** Secure rear flange of mounting weldment (47) to left-rear wheelhouse half-section (49) with two screws (44), lockwashers (45), and washers (46). Do not tighten screws (44) at this time.

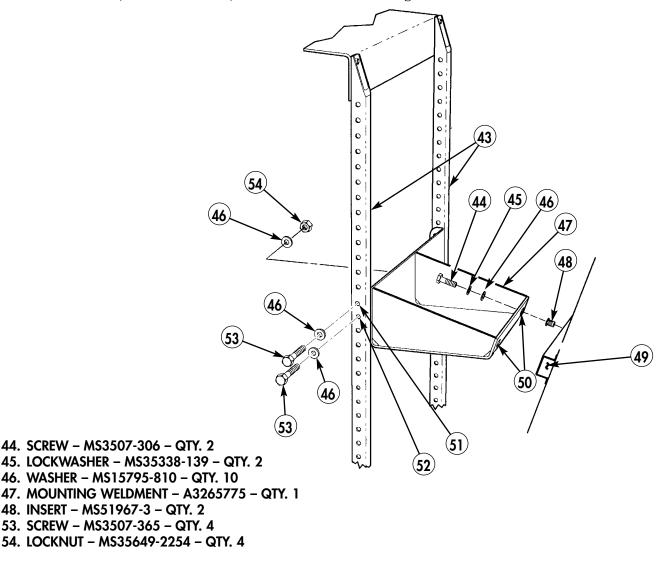
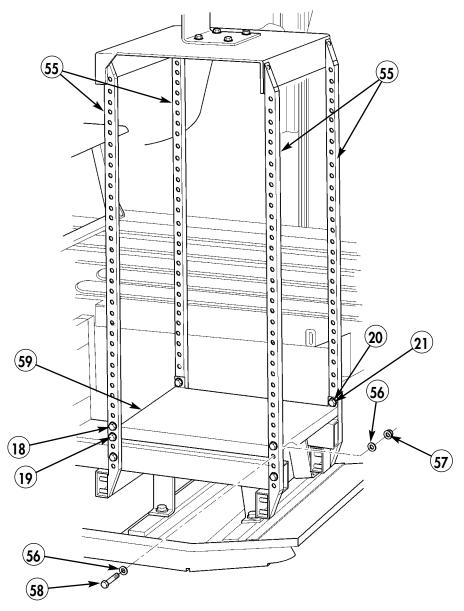


Figure 5-84.

NOTE

Direction and orientation of shelves are critical for proper installation of radio equipment. Forward ends of shelves are marked.

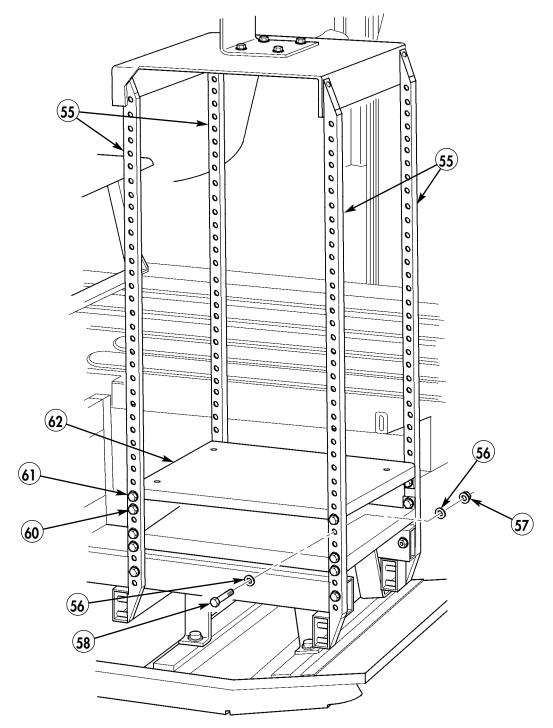
- **18-34.** Install blank shelf (59) on support legs (55) at holes 4 (19) and 5 (18) from bottom with four screws (58), eight washers (56), and four locknuts (57).
- **18-35.** Secure blank shelf (59) to support legs (55) with four existing screws (20) and lockwashers (21). Secure blank shelf (59) to support legs (55) with four washers (56) and locknuts (57).



- 56. WASHER MS15795-810 QTY. 12
- 57. LOCKNUT MS35649-2254 QTY. 8
- 58. SCREW MS35307-365 QTY. 4
- 59. BLANK SHELF A3265765 QTY. 1

Figure 5-85.

18-36. Install radio unit shelf (62) on support legs (55) at holes 7 (60) and 8 (61) from bottom with eight screws (58), sixteen washers (56), and eight locknuts (57). Tighten locknuts (57) to 120 lb-in.



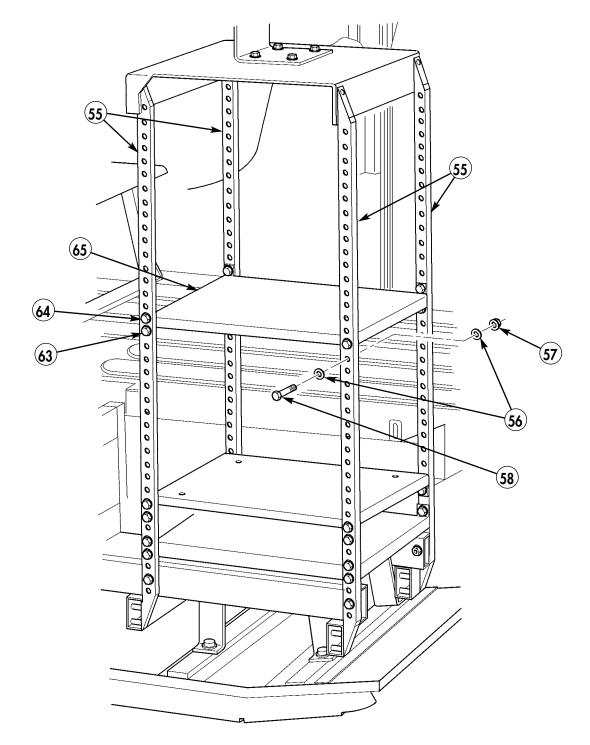
56. WASHER – MS15795-810 – QTY. 16

57. LOCKNUT - MS35649-2254 - QTY. 8

58. SCREW – MS35307-365 – QTY. 8

62. RADIO UNIT SHELF - A3265764 - QTY. 1

Figure 5-86.

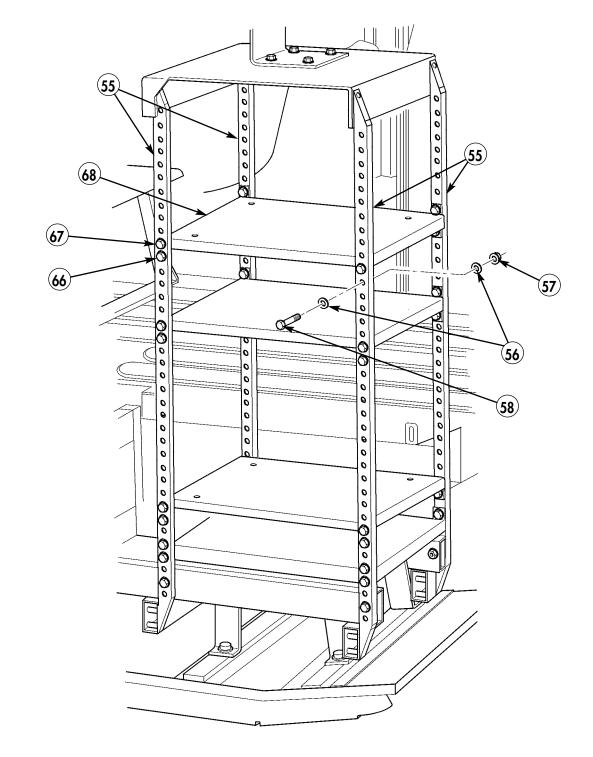


18-37. Install blank shelf (65) on support legs (55) at holes 17 (64) and 18 (63) from top with eight screws (58), sixteen washers (56), and eight locknuts (57). Tighten locknuts (57) to 120 lb-in.

56. WASHER – MS15795-810 – QTY. 16 57. LOCKNUT – MS35649-2254 – QTY. 8

58. SCREW – MS35307-365 – QTY. 8

65. BLANK SHELF – A3265765 – QTY. 1



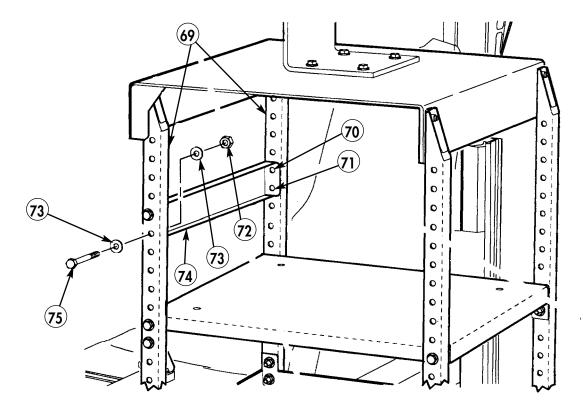
18-38. Install radio unit shelf (68) on support legs (55) at holes 11 (67) and 12 (66) from top with eight screws (58), sixteen washers (56), and eight locknuts (57). Tighten locknuts (57) to 120 lb-in.

56. WASHER – MS15795-810 – QTY. 16

57. LOCKNUT - MS35649-2254 - QTY. 8

58. SCREW - MS35307-365 - QTY. 8

68. RADIO UNIT SHELF - A3265764 - QTY. 1



18-39. Install side support (74) on forward support legs (69) at holes 5 (70) and 6 (71) from top with four screws (75), eight washers (73), and four locknuts (72). Tighten locknuts (72) to 120 lb-in.

- 72. LOCKNUT MS35649-2254 QTY. 4 73. WASHERS – MS15795-810 – QTY. 8 74. SIDE SUPPORT – A3265777 – QTY. 1
- 75. SCREW MS35307-365 QTY. 4
- **18-40.** Tighten three existing screws (32) to 37 lb-ft.

Figure 5-89.

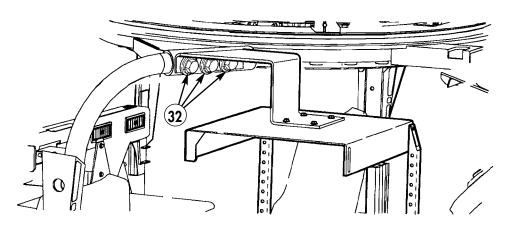


Figure 5-90.

18-41. Tighten eight existing screws (41) to 74 lb-in.

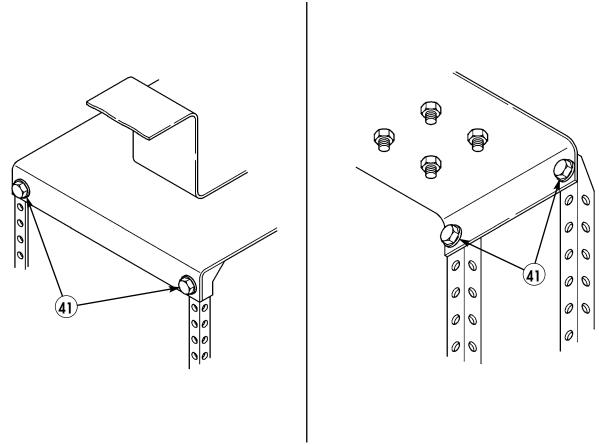


Figure 5-91.

- **18-42.** Tighten two existing screws (44) to 74 lb-in.
- **18-43.** Tighten four exsiting locknuts (53) to 120 lb-in.

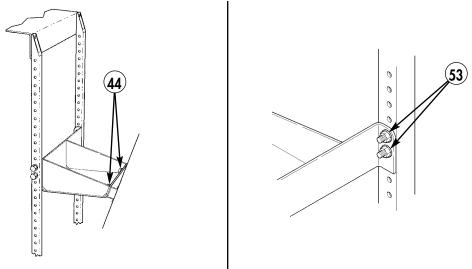
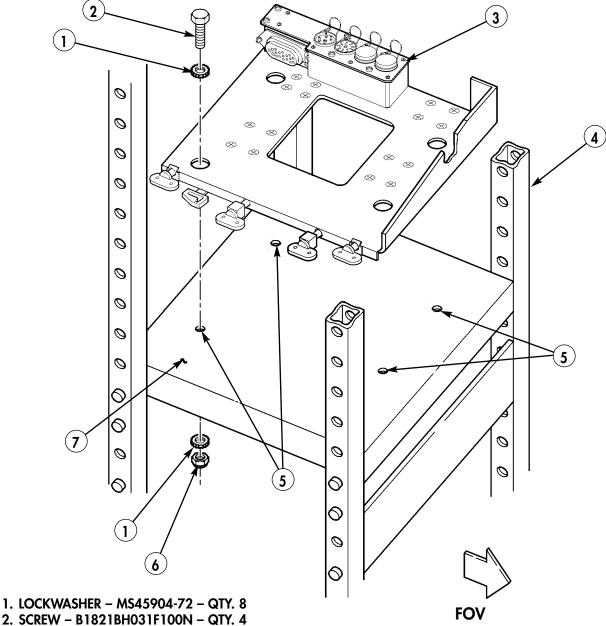


Figure 5-92.

Section XIX. SINCGARS MOUNT INSTALLATION: 90F OR 91F

- **19-1.** Remove paint from vicinity of four mounting holes (5) on shelf (7) of rear radio rack (4). Apply antiseize compound as required.
- **19-2.** Install mount (3) on shelf (7) of rear radio rack (4) with four screws (2), eight lockwashers (1), and four nuts (6).



- 3. MOUNT MT-6352/VRC QTY. 1
- 6. NUT MS51968-5 QTY. 4



Section XX. FHMUX INSTALLATION

- **20-1.** Remove paint from vicinity of four mounting holes (1) on FHMUX mount (2).
- **20-2.** Install FHMUX mount (2) on lowest shelf (6) of rear rack (5) with four screws (4), eight lockwashers (3), and four nuts (7).

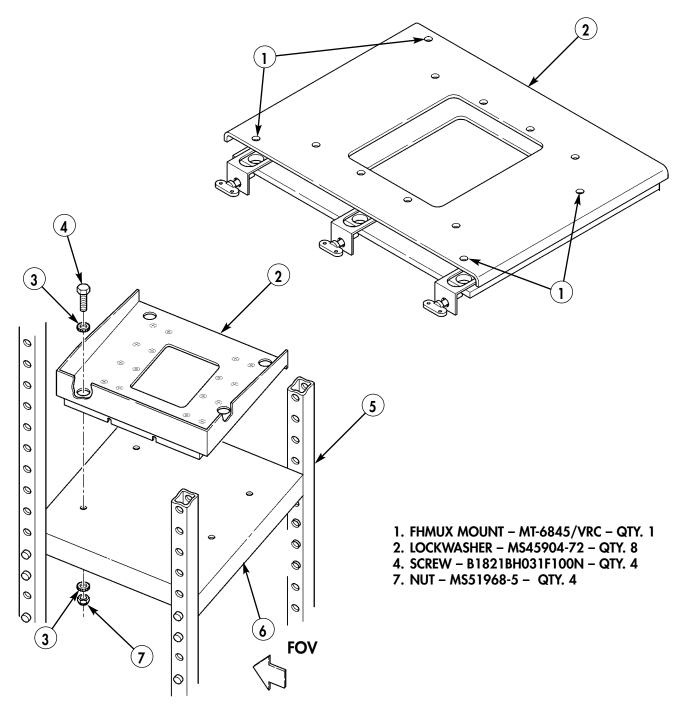


Figure 5-94.

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PETER J. SCHOOMAKER General, United States Army Chief of Staff

Official:

Sandra R. Riley SANDRA R. RILEY

SANDRA R. RILEY Administrative Assistant to the Secretary of the Army 0520914

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