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)
AN/VSQ-2 (V)

DRIVER'S VISION ENHANCER (DVE)
AN/VAS-5A

FOR VEHICLES

TRUCK, UTILITY, 4-DOOR: ARMAMENT CARRIER, ARMORED, 1-1/4 TON, 4X4, M1025 (2320-01-128-9551) (EIC: BBF); M1025A1 (2320-01-371-9584) (EIC: BBV); M1025A2 (2320-01-380-8233) (EIC: BB3);

TRUCK, UTILITY, 4-DOOR: ARMAMENT CARRIER, ARMORED, 1-1/4 TON, 4X4, M1026 (2320-01-128-9552) (EIC: BBG); M1026A1 (2320-01-371-9579) (EIC: BBQ).

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is https://aeps.ria.army.mil. The DA Form 2028 is located under the Public Applications section in the AEPS Public Home Page. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax or E-mail your letter or DA Form 2028 direct to: AMSTA-LC-LMIT / TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The email address is TACOM-TECH-PUBS@ria.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

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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:
 - a. Truck, Utility, 4-Door: Armament Carrier, Armored, 1-1/4 Ton, 4x4, M1025, M1025A1, M1025A2
 - b. Truck, Utility, 4-Door: Armament Carrier, Armored, 1-1/4 Ton, 4x4, M1026, M1026A1
- **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) AN/VRC-88F, AN/VRC-89F, AN/VRC-90F, AN/VRC-91F, AN/VRC-92F
 - 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) AN/VSQ-2 (V)
 - f. Driver's Vision Enhancer (DVE) AN/VAS-5A
 - 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. Reports of Packaging and Handling Deficiencies. 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 capability.

CHAPTER 3 COMPLETION TIME FOR INSTALLATION

A total of 20 man-hours are required for two personnel to install the C4ISR equipment. Typical vehicle downtime is 12 hours.

CHAPTER 4 PREPARATION FOR INSTALLATION

Section I. PREPARATION OF VEHICLE

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 9-2320-280-20.)
- 2-2. Remove right-hand rear cab enclosure panel. (Refer to TM 9-2320-280-20.)
- **2-3**. Remove insulation floorboard. (Refer to TM 9-2320-280-20.)
- 2-4. Remove standard radio rack. (Refer to TM 9-2320-280-20.)
- **2-5**. Remove D-rings. (Refer to TM 9-2320-280-20.)

Section III. LIST OF ITEMS TO BE RETAINED

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

Section IV. PREPARATION OF CAISR 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.** Report any shipping damage on SF 364 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 Discrepancy Report (TDR) (SF 361) 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 SF 364 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.** Use table 4-1 to identify and inventory C4ISR equipment installation parts supplied in kits.
- 9-2. Use table 4-2 to identify and inventory C4ISR equipment installation parts not supplied in kits.

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-2325
- (B): MK-2326
- (C): MK-2327 (dual)
- (D): MK-2328 (double kit)

PLGR:

(E): 57K4400

EPLRS:

- (F): MK-2467A/VSQ-1
- (G): MK-2753/VSQ

FBCB2:

(H): No kits available

DVE:

(I): No kits available

FHMUX:

(J): MK-2863

MATERIAL REQUIRED FROM KITS:

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

| ITEM NO. | NOMENCLATURE | PART NUMBER | NSN | KIT | QTY. |
|-------------|--|-----------------|------------------|-----------------------------|------|
| 1. | Antenna, AS-3499/VSQ-1 | A3005031 | 5820-01-183-9462 | (F),(G) | 1 |
| 2. | Bracket, Antenna | A3014546-1 | 5340-01-391-2742 | (A),(B),(C),(D) | 2 |
| 3. | Bracket, PLGR Mount | 12480578 | N/A | (E) | 1 |
| 4. | Cable Assembly, Antenna, EPLRS | SM-C-911480 | 5995-01-167-1269 | (F),(G) | 1 |
| 5. | Cable Assembly, Power, Electrical | A3014040-9 | 5995-01-300-9324 | (B),(C),(D) | 1 |
| 6. | Cable Assembly, Power, EPLRS | A3004939 | 5995-01-198-0538 | (F),(G) | 1 |
| 7. | Cable Assembly, Radio Frequency | A3014032-13 | 5995-01-301-0834 | (\mathbf{J}) | 2 |
| 8. | Cable Assembly, Radio Frequency | A3014032-14 | 5995-01-226-2441 | (\mathbf{J}) | $_2$ |
| 9. | Clamp, Loop | MS21333-96 | 5340-00-088-1255 | (E) | 2 |
| 10. | Clamp, Loop | MS21333-102 | 5340-00-984-8540 | (B) | 2 |
| 11. | Gasket | A3013655-1 | 5330-01-205-2864 | (A),(B),(C),(D),(J) | 2 |
| 12. | Grommet, Nonmetallic | MS21266-4N | 5325-00-923-9512 | (C),(D) | A/R |
| 13. | Grommet, Nonmetallic | MS35489-143 | 5325-00-292-7558 | (E) | 2 |
| 14. | Insert | 12446871-2 | 5310-01-411-3422 | (E) | 4 |
| 15. | Loudspeaker | A3014065-1 | 5965-01-222-1420 | (A),(B),(C),(D) | 4 |
| 16. | Mounting Base, Electrical Equipment | A3013367-1 | 5975-01-188-8873 | (A),(B),(C),(D),(G) | 2 |
| 17. | Mounting Base, Electrical Equipment | A3014053-1 | 5975-01-235-1962 | (B),(C) | 1 |
| 18. | Mounting Base, Electrical Equipment | A3154893 | 5975-01-430-3109 | (A),(B),(C),(D),(J) | 1 |
| 19. | Nut | MS35650-302 | 5310-00-934-9751 | (A),(B),(C),(D), (F),(G) | 5 |
| 20. | Nut | MS51968-5 | 5310-00-880-7746 | (A),(B),(C),(D), (G),(J) | 10 |
| 21. | Nut | 9419143 | 5310-01-148-0240 | (E) | 17 |
| 22. | Nut Strip | A3014064-1 | N/A | (B),(C),(D) | 1 |
| 23. | Plate, Mounting | A3014550-1 | N/A | (A),(B),(C),(D) | 4 |
| 24. | Screw, Cap | B1821BH025C100N | 5305-00-225-3843 | (E) | 2 |
| 25. | Screw, Cap | B1821BH025C125N | 5305-00-068-0509 | (E) | 17 |
| 26. | Screw, Cap | MS35307-365 | 5305-00-847-1159 | (A),(B),(C),(D), (G),(J) | 8 |
| 27. | Screw, Machine | MS35224-65 | 5310-00-543-5743 | (F) | 1 |
| 28. | Screw, Machine | MS35190-291 | 5305-00-958-5247 | (B) | 2 |
| 29. | Screw, Machine | MS35206-263 | 5305-00-984-6210 | (E) | 4 |
| 30. | Screw, Self-Tapping | 9421073 | 5305-01-162-8512 | (E) | 7 |
| 31. | Strap, Tiedown | MS3367-1-0 | 5975-00-984-6582 | (E) | 2 |
| 32. | Terminal Lug | 7728777 | 5940-00-983-4067 | (E) | 2 |

TB 9-2320-280-35-7

MATERIAL REQUIRED FROM KITS:

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

| ITEM | | | | | |
|------|--------------|-------------|------------------|---------------------------------|------|
| NO. | NOMENCLATURE | PART NUMBER | NSN | KIT | QTY. |
| 33. | Terminal Lug | 7728780 | 5940-01-035-4212 | (E) | 2 |
| 34. | Washer | MS27183-10 | 5310-00-809-4058 | (C),(D),(G) | 2 |
| 35. | Washer | MS27183-12 | 5310-00-081-4219 | (B),(C),(D),(G) | 6 |
| 36. | Washer | 2436161 | 5310-01-102-3270 | (E) | 38 |
| 37. | Washer, Lock | MS35338-43 | 5310-00-045-3296 | (A),(B),(C),(D), (E),(F),(G) | 4 |
| 38. | Washer, Lock | MS35338-44 | 5310-00-582-5965 | (A),(B),(C), (D),(E),(G) | 28 |
| 39. | Washer, Lock | MS45904-68 | 5310-00-889-2528 | (A),(B),(C),(D) | 8 |
| 40. | Washer, Lock | MS45904-72 | 5310-00-889-2527 | (A),(B),(C),(D), (F),(G),(J) | 56 |
| 41. | Washer, Lock | MS45904-76 | 5310-00-061-1258 | (A),(B),(C), (D),(G),(J) | 6 |
| 42. | Wellnut | 12339397-3 | 5310-01-231-7455 | (E) | 1 |
| 43. | Wellnut | 12339397-6 | 5310-01-388-6205 | (E) | 1 |

MATERIAL REQUIRED BUT NOT INCLUDED IN KITS:

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

| ITEM NO. | NOMENCLATURE | PART NUMBER | NSN | QTY. |
|-------------|-------------------------------|--------------|------------------|------|
| 1. | Antenna AS-3900/VRC | A3017889-2 | 5985-01-308-8988 | 1 |
| 2. | Antenna, Element (lower) | A3018230-1 | 5985-01-201-1498 | 1 |
| 3. | Antenna, Element (upper) | A3017901-2 | 5985-01-306-4622 | 1 |
| 4. | Antenna, PLGR | AT575-030 | 5985-01-375-4660 | 1 |
| 5. | Assembly, Display Lock | 872843-01 | N/A | 1 |
| 6. | Bolt | MS35751-18 | 5306-00-108-9988 | 4 |
| 7. | Bracket, DCM Roof Mount | 3245782-1 | N/A | 1 |
| 8. | Bracket, PLGR | 986-0645-001 | 5975-01-375-1302 | 1 |
| 9. | Bracket, PTM Control | 3236630-1 | N/A | 1 |
| 10. | Bracket, User Readout (URO) | A3006206 | 5340-01-386-7841 | 1 |
| 11. | Cable Assembly, Antenna, PLGR | 426-0141-050 | 6150-01-375-8662 | 1 |
| 12. | Cable Assembly, Ground | 12480567-1 | N/A | 1 |
| 13. | Cable Assembly, INC-EPUU | A3279383-2 | 5995-01-453-6608 | 1 |
| 14. | Cable Assembly, Power | 3256881-1 | 6150-01-482-4740 | 1 |
| 15. | Cable Assembly, Power | A3014039-7 | 5995-01-336-6933 | 1 |
| 16. | Cable Assembly, Power | 12480567-2 | N/A | 1 |
| 17. | Cable Assembly, Power, PLGR | 9728558-10 | 6150-01-375-8661 | 1 |
| 18. | Cable, Azimuth Lock | 3221015-1 | N/A | 1 |
| 19. | Cable, Control | A3014037-4 | 5995-01-335-7863 | 1 |
| 20. | Cable, DCM/PTM Interconnect | 3220915-1 | N/A | 1 |
| 21. | Clamp, Loop | MS21333-65 | 5340-00-905-0790 | 3 |
| 22. | Clamp, Loop | MS21333-69 | 5340-00-764-7051 | 3 |
| 23. | Clamp, Loop | MS21333-70 | 5340-00-689-9514 | 2 |
| 24. | Control Cable Seal Assembly | 3220908 | 2990-00-365-1898 | 1 |
| 25. | CPU (Central Processing Unit) | 881292-1 | 7021-01-474-3793 | 1 |
| 26. | Decal | 12339060 | 7690-01-265-1135 | 1 |
| 27. | Decal | 861868-2 | N/A | 1 |
| 28. | Display | 881293-1 | 7025-01-475-0229 | 1 |
| 29. | Grommet, Nonmetallic | 12338098 | 5325-01-308-5424 | 2 |
| 30. | Grommet, Nonmetallic | 2400 | 5325-01-289-7859 | 1 |
| 31. | Grommet, Nonmetallic | MS35489-12 | 5325-00-263-6651 | 1 |
| 32. | Grommet, Nonmetallic | MS21266-6N | 5325-00-783-4753 | A/R |
| 33. | Guard, Amp | 872842-1 | 5935-01-487-2172 | 1 |
| 34. | Guide, A-Frame Cable | 3220964-1 | 5820-01-183-9462 | 1 |
| 35. | Guide, Hood Cable | 3220912-1 | N/A | 1 |
| 36. | Isolation Kit, CPU | 872826-2 | 5340-01-481-5741 | 1 |
| 37. | Isolation Kit, Display | 872870-1 | 5340-01-481-5757 | 1 |
| 38. | Lanyard | 8925T5-7X19 | 4010-01-497-2675 | 1 |
| 39. | Mount, DCM | 3221839-1 | N/A | 1 |
| 40. | Mount, PTM A-Pillar | 3221002-1 | N/A | 1 |
| | | | | |

MATERIAL REQUIRED BUT NOT INCLUDED IN KITS:

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

| ITEM NO. | NOMENCLATURE | PART NUMBER | NSN | QTY. |
|-------------|----------------------|-----------------|------------------|------|
| 41. | Mount, Ramball | RAM-D-111U | 5975-01-485-3615 | 1 |
| 42. | Nut | 271169 | 5310-00-124-9265 | 5 |
| 43. | Nut | MS35649-2252 | 5310-00-997-1888 | 3 |
| 44. | Nut | M45913/3-5CG8Z | N/A | 3 |
| 45. | Nut | 13218E0320-293 | 5310-00-913-8881 | 8 |
| 46. | Nut | 9418892 | 5310-01-157-9819 | 10 |
| 47. | Nut | MS35649-63 | 5310-00-804-3859 | 5 |
| 48. | Nut | MS51943-4C | 5310-00-935-3750 | 1 |
| 49. | Nut | MS35649-2382 | 5310-00-056-3395 | 2 |
| 50. | Nut, Lock | 271175 | 5310-01-333-5245 | 6 |
| 51. | Nut, Lock | M45913/4-4CG8Z | N/A | 4 |
| 52. | Panel, Enclosure | 12447141 | 2510-01-413-5993 | 1 |
| 53. | PTM Control Assembly | 3220905-1 | 5340-01-511-2705 | 1 |
| 54. | PTM Mount Assembly | 3220952-1 | 5855-01-511-2699 | 1 |
| 55. | Rack, Integrated | A3276903 | N/A | 1 |
| 56. | Rivet | SSLQ-68 | 5320-01-255-6608 | 3 |
| 57. | Rivet Nut | 3221004-14 | | 2 |
| 58. | Rivet Nut | 3221003-14 | N/A | 13 |
| 59. | Rivet, Blind | 12339355-1 | 5320-01-271-6357 | 2 |
| 60. | Screw, Cap | B1821BH025C075N | 5305-00-068-0508 | 5 |
| 61. | Screw, Cap | B1821BH025C100N | 5305-00-225-3843 | 19 |
| 62. | Screw, Cap | B1821BH025C150N | 5305-00-071-2509 | 2 |
| 63. | Screw, Cap | B1821BH025C300N | 5305-00-071-2515 | 5 |
| 64. | Screw, Cap | B1821BH031F075N | 5306-00-050-1238 | 2 |
| 65. | Screw, Cap | B1821BH031F100N | 5305-00-051-4076 | 8 |
| 66. | Screw, Cap | B1821BH031F125N | 5305-00-051-4078 | 16 |
| 67. | Screw, Cap | B1821AH038C225N | 5305-01-434-2947 | 2 |
| 68. | Screw, Cap | B1821BH038F100N | 5305-00-269-3236 | 6 |
| 69. | Screw, Cap | B1821BH050C400N | 5305-00-071-2079 | 3 |
| 70. | Screw, Cap | B1821BH050C450N | 5305-00-071-2081 | 2 |
| 71. | Screw, Machine | 160035 | 5305-00-016-0035 | 1 |
| 72. | Screw, Machine | MS35207-265 | 5305-00-993-1848 | 4 |
| 73. | Screw, Machine | MS35206-230 | 5305-00-889-3000 | 5 |
| 74. | Screw, Self-Tapping | 12342499-2 | 5305-01-264-5809 | 7 |
| 75 . | Screw, Self-Tapping | 9426241 | | 1 |
| 76. | Sleeve, Heat Shield | N/A | N/A | 1 |
| 77. | Spacer | 10705 AL315 C | 5365-01-487-3145 | 4 |
| 78. | Strap, Tiedown | MS3367-1-0 | 5975-00-984-6582 | A/R |
| 79. | Terminal Board | 12480570 | N/A | 1 |
| 80. | Terminal Board | MS27212-3-8 | 5940-00-950-7782 | 1 |

MATERIAL REQUIRED BUT NOT INCLUDED IN KITS:

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

| ITEM | NOMENCIATION | - | NCN | |
|------|----------------------------|-----------------|------------------|----------|
| NO. | NOMENCLATURE | PART NUMBER | NSN | QTY. |
| 81. | Terminal Board Cover | 12480569-1 | N/A | 1 |
| 82. | Terminal Board Cover | 12480569-2 | N/A | 1 |
| 83. | Terminal Board Cover | MS18029-3S-2 | 5940-01-280-9304 | 2 |
| 84. | Terminal Link | MS25266-6N-2 | 6150-01-167-9267 | 1 |
| 85. | Terminal, Lug | MS20659-108 | 5940-00-115-2674 | 2 |
| 86. | Terminal, Lug | MS20659-141 | 5940-00-113-9825 | 4 |
| 87. | Terminal, Lug | MS25036-150 | 5940-00-113-8184 | 1 |
| 88. | Terminal, Lug | MS20659-129 | 5940-00-114-1314 | 2 |
| 89. | Terminal Lug | MS25036-108 | | 1 |
| 90. | Tie, Stainless Steel Cable | 69855K72 | N/A | A/R |
| 91. | Tubing, Shrink | MS23053/4-302-0 | 5970-01-161-6796 | A/R |
| 92. | Washer | 12338095 | 5310-01-208-7576 | 6 |
| 93. | Washer | 2436161 | 5310-01-102-3270 | 17 |
| 94. | Washer | 9414920 | 5310-01-476-8589 | 2 |
| 95. | Washer | 9417373 | 5310-01-361-1163 | 1 |
| 96. | Washer | MS27183-10 | 5310-00-809-4058 | 2 |
| 97. | Washer | MS27183-12 | 5310-00-081-4219 | 6 |
| 98. | Washer | MS51412-23 | 5310-01-333-0060 | 2 |
| 99. | Washer | 3221003-9 | N/A | 5 |
| 100. | Washer | 2436163 | 5310-01-412-4013 | 2 |
| 101. | Washer, Lock | MS35338-44 | 5310-00-582-5965 | 6 |
| 102. | Washer, Lock | 120380 | 5310-00-543-2705 | 1 |
| 103. | Washer, Lock | MS35338-41 | 5310-00-045-4007 | 5 |
| 104. | Washer, Lock | MS35338-46 | 5310-00-637-9541 | 2 |
| 105. | Washer, Lock | MS35338-48 | 5310-00-584-5272 | 3 |
| 106. | Washer, Lock | MS45904-84 | 5310-00-935-8984 | 5 |
| 107. | Wingnut | MS51553-420 | 5310-01-384-2546 | 4 |
| 108. | Wire Assembly, Fuse (12V) | 12480568-2 | N/A | 1 |
| 109. | Wire Assembly, Fuse (24V) | 12480568-1 | N/A | 3 |
| 110. | Wire, Braided | AA59569F30T0375 | 6145-00-191-8402 | A/R |
| 111. | 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)
- Force XXI Battle Command, Brigade-and-Below (FBCB2)
- Frequency-Hopping Multiplexer (FHMUX)
- Precision Lightweight Global Positioning System Receiver (PLGR)
- Enhanced Position Location Reporting System (EPLRS)
- Driver's Vision Enhancer (DVE)
- Additional terminal boards in the vehicle

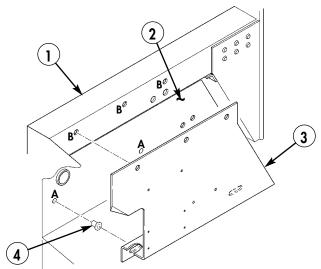
When installing C4ISR equipment, be sure to read and follow instructions and illustrations carefully.

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

- For vehicles without cab enclosure panel, begin with step 3-1 and use cab enclosure panel NSN 2510-01-413-5993.
- For vehicles with cab enclosure panel, begin with step 3-3.
- All dimensions are in inches.
- **3-1.** Place cab 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. CAB ENCLOSURE PANEL 12447141 QTY. 1
- 4. INSERT 12446871-2 QTY. 2

Figure 5-1.

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

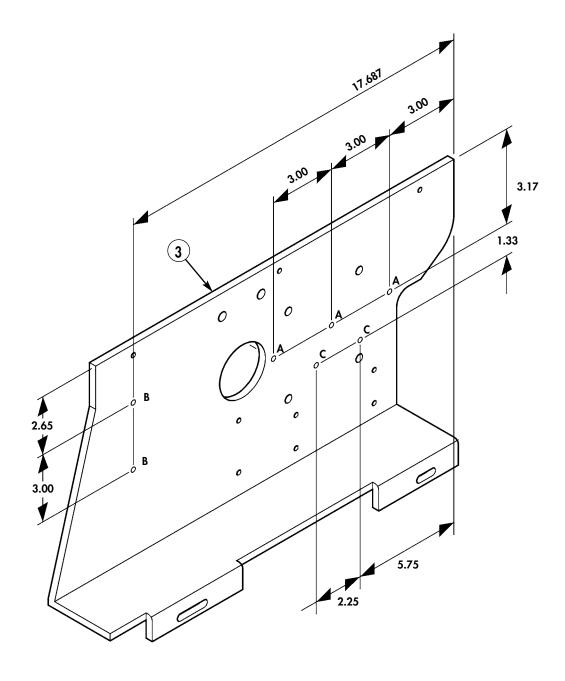


Figure 5-2.

CAUTION

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

3-6. Measure and cut terminal board (5) in two places (6). Remove burrs and sharp edges.

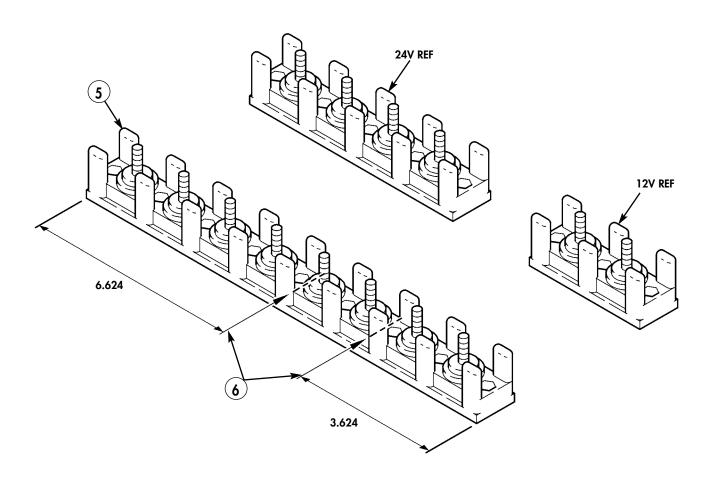


Figure 5-3.

5. TERMINAL BOARD - MS27212-3-8 - QTY. 1

3-7. Install five nut sleeves (9) in terminal board covers (7), (8), and (10), and secure with five snaprings (11).

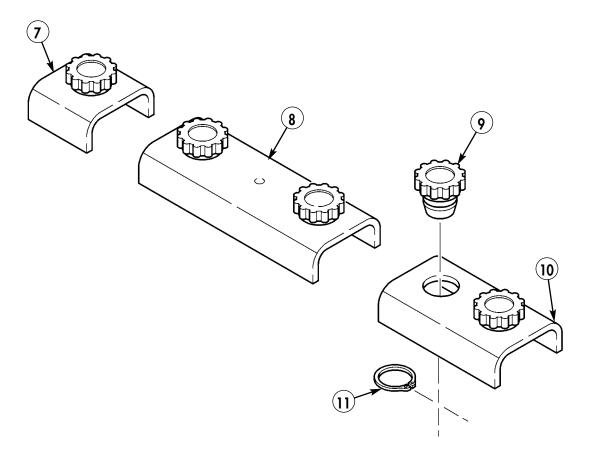


Figure 5-4.

- 7. TERMINAL BOARD COVER 12480569-1 QTY. 1
- 8. TERMINAL BOARD COVER 12480569-2 QTY. 1
- 10. 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).

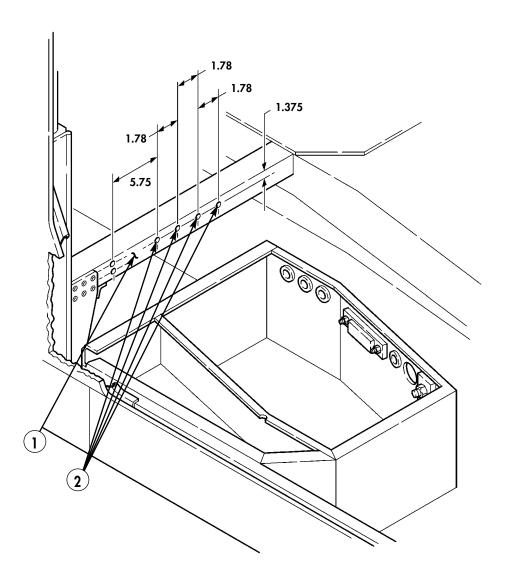


Figure 5-5.

Section V. ASSEMBLY OF CAB ENCLOSURE PANEL

- **5-1.** Install 12V terminal board (8) on cab enclosure panel (3) with two screws (1), lockwashers (2), and nuts (7).
- **5-2.** Install 24V terminal board (6) on cab enclosure panel (3) with three screws (1), lockwashers (2), and nuts (7).
- **5-3.** Enlarge two holes marked A in terminal board (4) to 0.196 in., and secure terminal board (4) to cab enclosure panel (3) with two rivets (5).

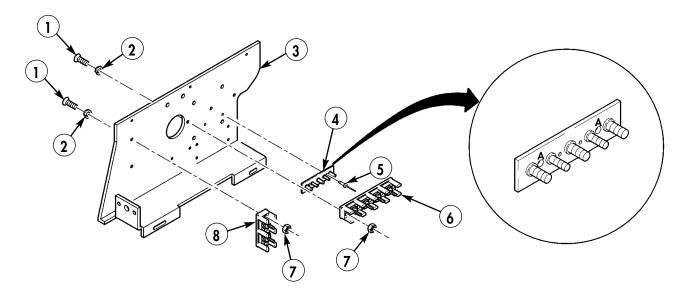


Figure 5-6.

- 1. SCREW MS35206-230 QTY. 5
- 2. LOCKWASHER MS35338-41 QTY. 5
- 4. TERMINAL BOARD 12480570 QTY. 1
- 5. BLIND RIVET 12339355-1 QTY. 2
- 7. NUT MS35649-63 QTY. 5

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

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

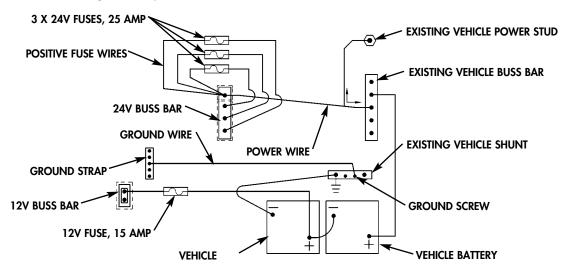


Figure 5-7.

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

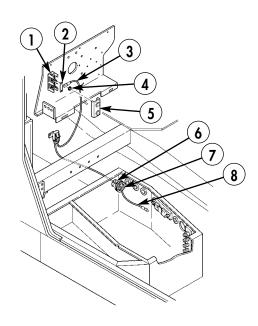


Figure 5-8.

6-5. Connect wire (8) to existing positive 12V battery terminal end (10) with existing screw (9) and nut (11).

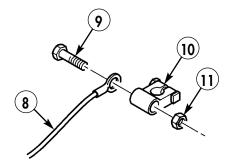
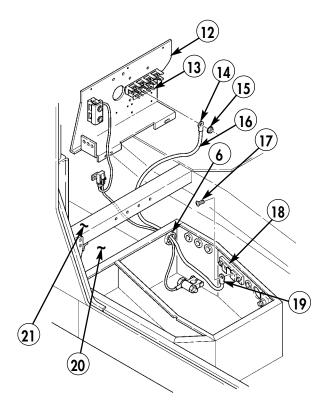


Figure 5-9.

- **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) to center terminal of terminal board (13) with nut (15), and secure terminal lug (19) to shunt (18) with existing screw (17).
- **6-9.** Install four additional nuts (15) on terminal board (13).



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

Figure 5-10.

- **6-10.** Route 24V power cable (27) through hole (6) and install 24V power cable terminal lug (23) on inboard terminal board 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).

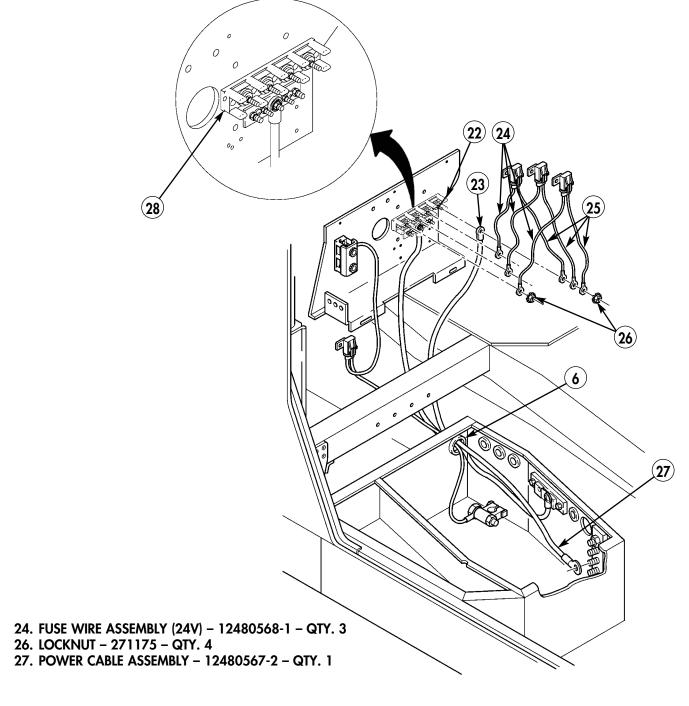
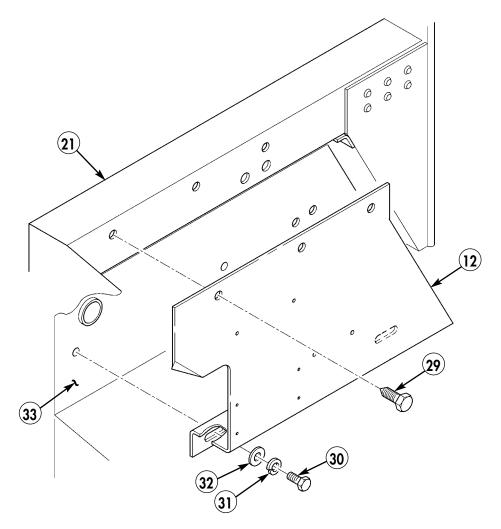


Figure 5-11.

NOTE

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

- **6-13.** Install cab enclosure panel (12). (Refer to TM 9-2320-280-20.)
- **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. FLAT WASHER MS51412-23 QTY. 2

Figure 5-12.

6-16. Secure three 24V fuse wire assemblies (24) and one 12V fuse wire assembly (3) to B-beam (21) with four self-tapping screws (35).

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 (39) with lockwasher (37) and existing nut (38).
- **6-18.** Secure 24V terminal board power wire terminal lug (27) to terminal board (36) with lockwasher (37) and existing nut (38).
- **6-19.** Install decal (34) on B-beam (21).
- $\textbf{6-20.} \quad \text{If previously removed, install right-hand rear fixed door.} \ (\text{Refer to TM 9-2320-280-20.})$
- **6-21.** Install batteries. (Refer to TM 9-2320-280-20.)

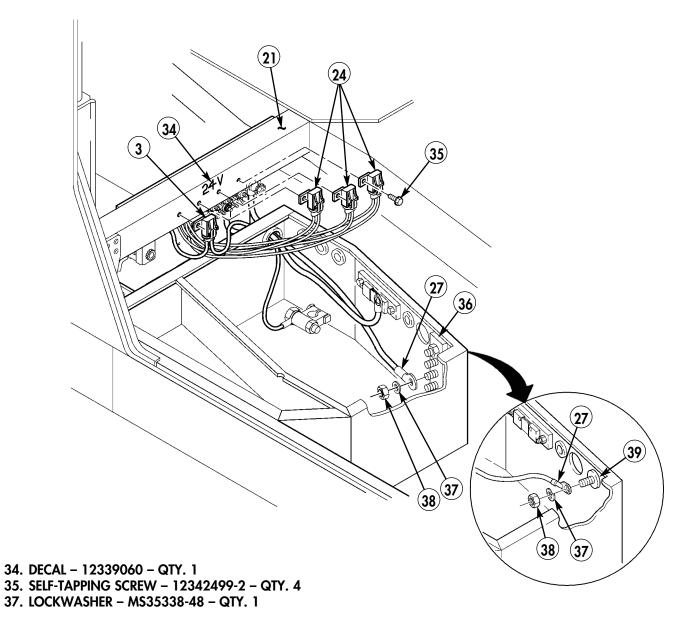
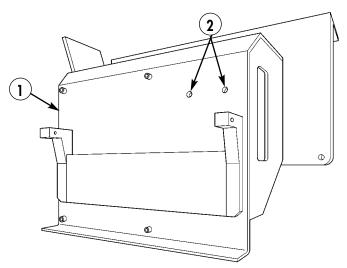


Figure 5-13.

Section VII. INTEGRATED RACK INSTALLATION

Perform step 7-1 only if MT-6353/VRC mounting base is to be installed.

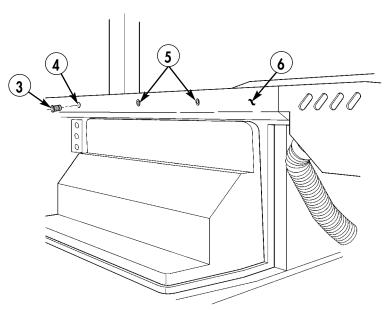
7-1. Remove two inserts (2) from bottom of integrated rack (1)



1. RACK, INTEGRATED - A3276903 - QTY. 1

Figure 5-14.

- **7-2.** Using integrated rack (1) as template, locate, mark, and drill 0.390-inch diameter hole (4) in dash (6).
- **7-3.** Remove paint from vicinity of hole (4) and two existing inserts (5).
- **7-4.** Install insert (3) in hole (4).
- **7-5.** Apply anti-seize compound to vicinity of inserts (3) and (5) as required.



3. INSERT - 12446871-2 - QTY. 1

Figure 5-15.

- **7-6.** Remove paint from vicinity of three mounting slots (7) on integrated rack (1).
- **7-7.** Apply anti-seize compound to vicinity of three mounting slots (7) on integrated rack (1) as required.

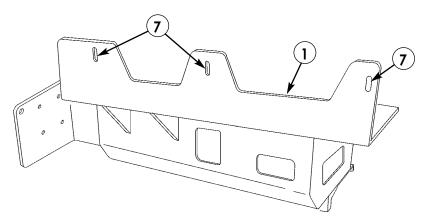
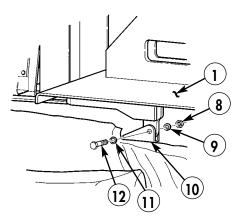


Figure 5-16.

NOTE

Do not install mounting hardware on top of integrated rack at this time. Not installing this hardware leaves the integrated rack free to pivot to assist in routing of cabling. Secure rack only after all cabling has been routed.

7-8. Mount integrated rack (1) to existing radio rack mount (10) using capscrew (12), washer (11), lockwasher (9), and nut (8). Repeat for opposite side. Do not tighten screws.



- 8. NUT MS35649-2382 QTY. 2
- 9. LOCKWASHER MS35338-46 QTY. 2
- 11. WASHER 2436163 QTY. 2
- 12. CAPSCREW B1821AH038C225N QTY. 2

Figure 5-17.

Section VIII. INSTALLATION OF SINCGARS MOUNTING TRAY AND AMP GUARD

- **8-1.** Remove paint from vicinity of four mounting holes (6) on integrated rack (7) and vicinity of four mounting holes (5) on bottom of mounting base (4).
- **8-2.** Apply anti-seize compound to vicinity of four mounting holes (6) on integrated rack (7) and four mounting holes (5) on bottom of mounting base (4) as required.

NOTE

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

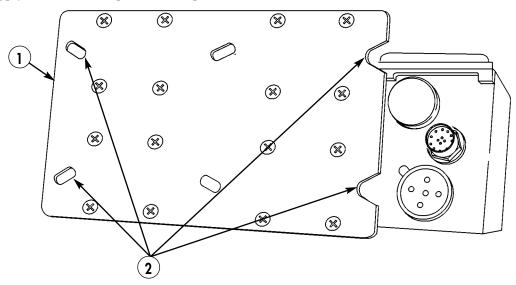
- **8-3.** Install mounting base (4) and amp guard (9) on integrated rack (7) with two capscrews (2), four lockwashers (1), and two nuts (8). Secure mounting base (4) to integrated rack (7) with two capscrews (3) and two lockwashers (1).
- **8-4.** Place warning decal (10) on amp guard (9). 2 9 10 WARNING 5 (9) 1. LOCKWASHER - MS45904-72 - QTY. 6 7 2. CAPSCREW - B1821BH031F125N - QTY. 2 3. CAPSCREW - B1821BH031F100N - QTY. 2 4. MOUNTING BASE, MT-6352/VRC - A3013367-1 - QTY. 1
- 8. NUT MS51968-5 QTY. 2
- 9. AMP GUARD 872842-1 QTY. 1
- 10. DECAL 861868-2 QTY. 1

Figure 5-18.

Section IX. POWER AMPLIFIER INSTALLATION **NOTE**

Perform this procedure only if SINCGARS model AN/VRC-92F is to be installed.

9-1. Remove paint from vicinity of four mounting areas (2) on MT-6353/VRC mounting base (1) and apply anti-seize compound as required.



1. MOUNTING BASE, MT-6353/VRC - A3014053-1 - QTY. 1

Figure 5-19.

9-2. Remove paint from vicinity of four mounting holes (4) on integrated rack (3) and apply anti-seize compound as required.

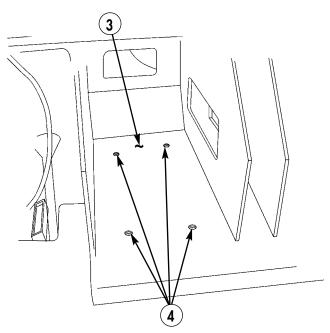
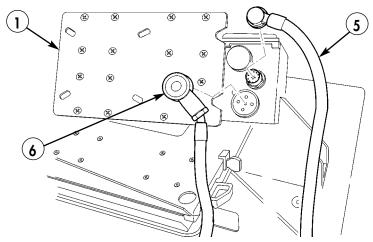


Figure 5-20.

- **9-3.** Attach control cable (5) to MT-6353/VRC mounting base (1).
- **9-4.** Attach power cable (6) to MT-6353/VRC mounting base (1).

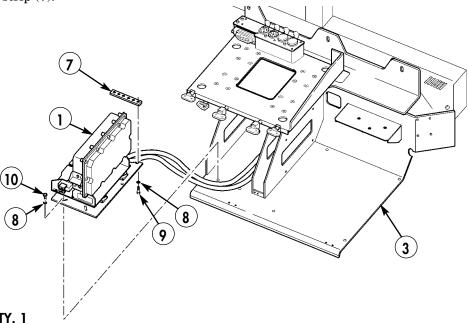


- 5. CONTROL CABLE A3014037-4 QTY. 1
- 6. POWER CABLE A3014040-9 QTY. 1

Figure 5-21.

Ensure control cable and power cable are routed through hole in back of integrated rack before installing MT-6353/VRC mounting base. Refer to chapter 5, section XIII.

9-5. Attach MT-6353/VRC mounting base (1) to integrated rack (3) with two capscrews (9) and (10), four lockwashers (8), and nut strip (7).



- 7. NUT STRIP A3014064-1 QTY. 1
- 8. LOCKWASHER MS45904-72 QTY. 4
- 9. CAPSCREW B1821BH031F125N QTY. 2
- 10. CAPSCREW B1821BH031F075N QTY. 2

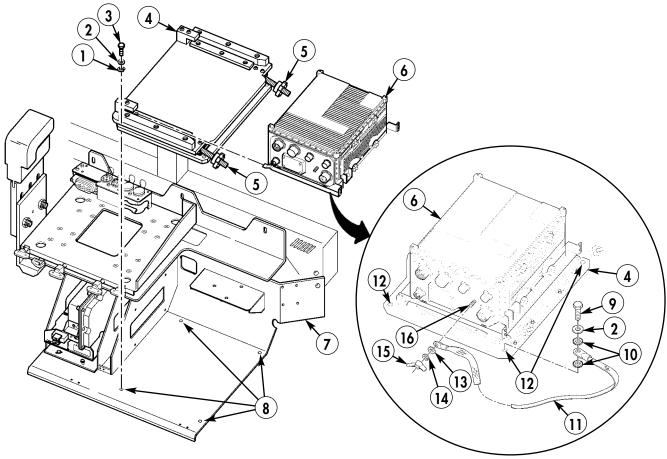
Figure 5-22.

Section X. FBCB2 COMPONENTS INSTALLATION

NOTE

SINCGARS model AN/VRC-92F shown.

- **10-1.** Remove paint from vicinity of four holes (8) on integrated rack (7) and both sides of four holes (12) on CPU isolation kit (4). Apply anti-seize compound as required.
- **10-2.** Install CPU isolation kit (4) on integrated rack (7) with three capscrews (3), washers (2), and lockwashers (1), leaving open holes (8) and (12).
- **10-3.** Install CPU (6) on CPU isolation kit (4) with two existing fastener guards (5).
- 10-4. Fabricate ground strap (11) from 8.00-in. length of braided wire and two terminal lugs.
- **10-5.** Install ground strap (11) on CPU ground stud (16) with existing washer (13), lockwasher (14), and wingnut (15).
- **10-6.** Install ground strap (11) on CPU isolation kit (4) and integrated rack (7) with capscrew (9), washer (2), and two lockwashers (10).



- 1. LOCKWASHER MS35338-44 QTY. 3
- 2. WASHER 2436161 QTY. 4
- 3. CAPSCREW B1821BH025C100N QTY. 3
- 4. CPU ISOLATION KIT 872826-2 QTY, 1
- 6. CPU 881292-1 QTY. 1
- 9. CAPSCREW B1821BH025C125 QTY. 1
- 10. LOCKWASHER MS45904-68 QTY. 2
- 11. CPU GROUND STRAP
 - BRAIDED WIRE AA59569F30T0375 QTY. A/R
 - TERMINAL LUG MS20659-141 QTY. 2

Figure 5-23.

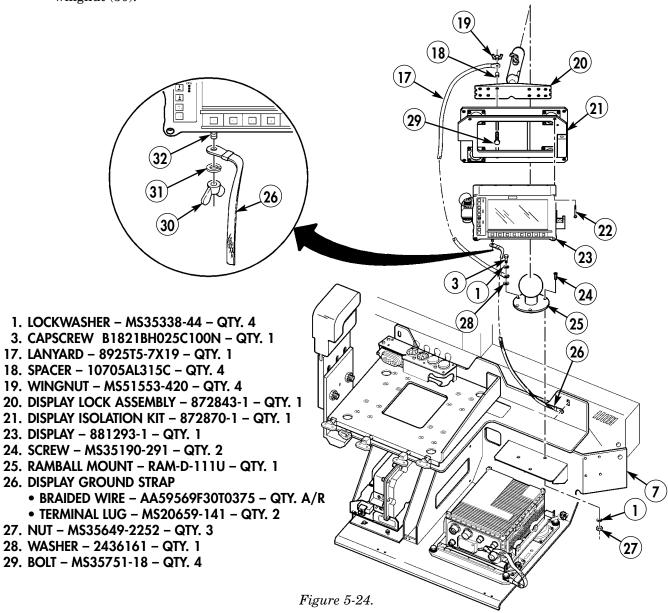
SINCGARS model AN/VRC-92F shown.

- **10-7.** Install Ramball mount (25) on integrated rack (7) with two screws (24), capscrew (3), lockwasher (1), lanyard (17), washer (28), three lockwashers (1), and nuts (27).
- **10-8.** Install display isolation kit (21) on display lock assembly (20) with four bolts (29), spacers (18), lanyard (17), and four wingnuts (19).
- **10-9.** Install display unit (23) on display isolation kit (21) with four screws (22).
- **10-10.** Install display lock assembly (20) on Ramball mount (25).
- 10-11. Fabricate display ground strap (26) from 8-in. length of braided wire and two terminal lugs.

NOTE

Remove paint from vicinity of integrated rack mounting hole before performing step 10-12. Apply anti-seize compound as required. Ground strap will be installed on integrated rack only when integrated rack is fully secured in vehicle.

10-12. Install display ground strap (26) on display ground stud (32) with existing lockwasher (31) and wingnut (30).



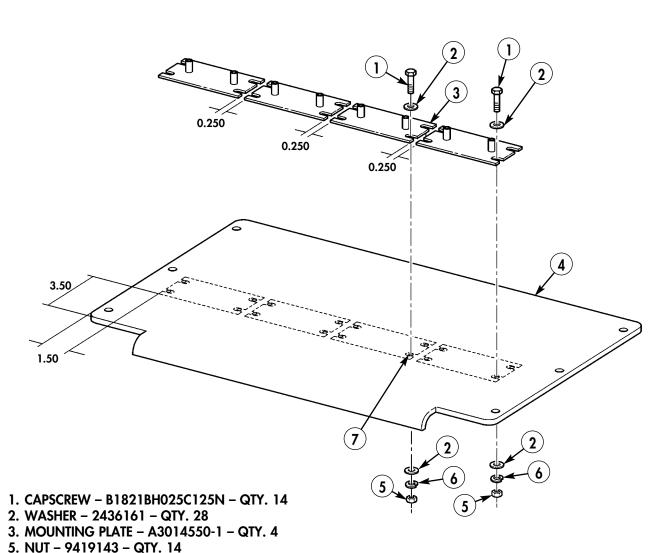
Section XI. LOUDSPEAKER AND MULTI-NET RACK INSTALLATION NOTE

Remove paint from vicinity of all mounting holes.

11-1. Using four speaker mounting plates (3) as templates, locate, mark, and drill sixteen 0.281-in. diameter holes (7) in lower shelf (4).

NOTE

- To ensure proper fit, keep mounting holes near outside edge of speaker mounting plate holes.
- Do not install screws in two far-left side mounting holes at this time. These holes align with the frame and require longer screws. These screws are installed in step 11-3.
- **11-2.** Install four speaker mounting plates (3) on lower shelf (4) with fourteen capscrews (1), twenty-eight washers (2), fourteen lockwashers (6), and nuts (5).



-). NUI 9419143 QII. 14
- 6. LOCKWASHER MS35338-44 QTY. 14

Figure 5-25.

- Use existing holes of D-rings to mount frame and shelf. Older model trucks have existing strux nuts. If installing multi-net rack on a newer model vehicle, use locknuts.
- Any missing strux nuts must be replaced by locknuts.
- **11-3.** Install lower shelf (4) on frame (10) with two capscrews (23), four washers (20), two lockwashers (19), and nuts (18).
- **11-4.** Install lower shelf (4) and frame (10) on cargo bed (16) with two capscrews (22), lockwashers (21), spacers (17), and locknuts (15) if necessary.
- **11-5.** Secure lower shelf (4) to frame (10) and cargo bed (16) with two capscrews (8), lockwashers (9), and locknuts (15) if necessary.
- **11-6.** Secure frame (10) to cargo bed (16) with three capscrews (11), lockwashers (12), washers (13), spacers (14), and locknuts (15) if necessary.

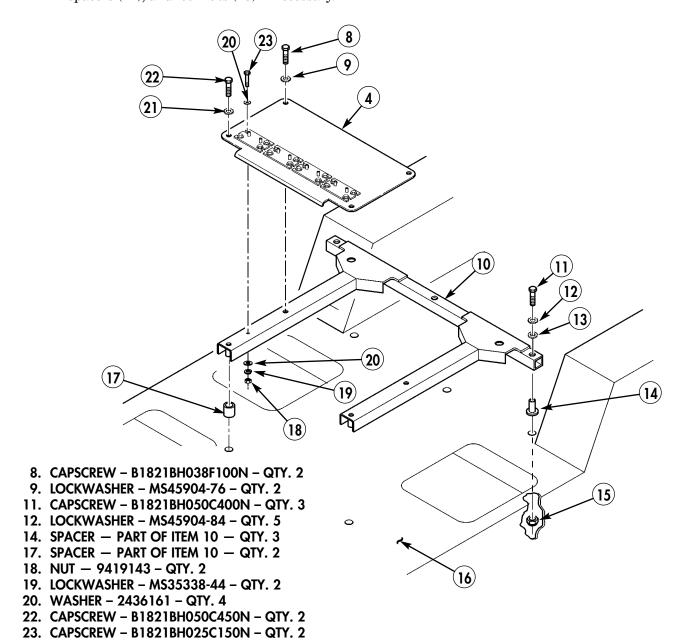


Figure 5-26.

Remove paint from vicinity of all mounting holes. Apply anti-seize compound as required.

- 11-7. Install assembled multi-net rack (24) on frame (10) with four capscrews (26) and lockwashers (27).
- 11-8. Install grommet material (25) in eight holes of multi-net rack (24).
- 11-9. Install grommet material (28) in two holes of frame (10).

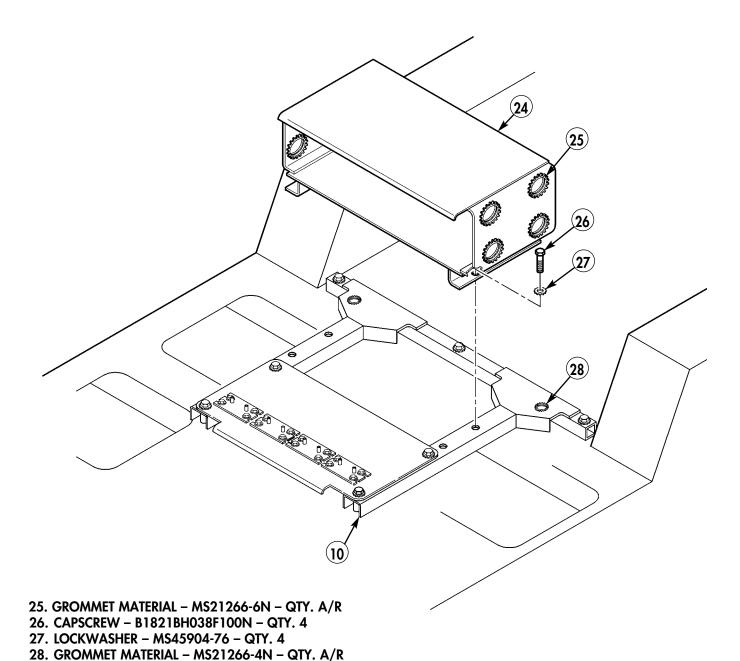
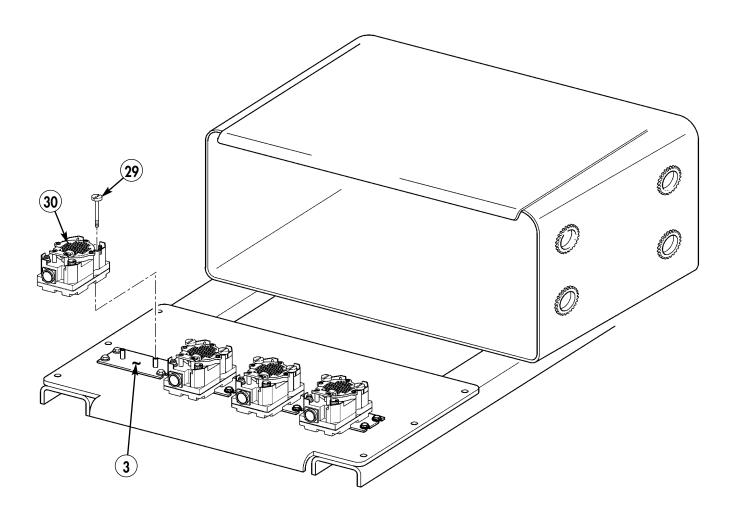


Figure 5-27.

TB 9-2320-280-35-7

11-10. Install four loudspeakers (30) on speaker mounting plate (3) with eight externally-relieved body screws (29).



30. LOUDSPEAKER - A3014065-1 - QTY. 4

Figure 5-28.

Section XII. FHMUX MOUNT INSTALLATION

12-1. Locate, mark, and drill 0.343-in. diameter hole (1) in multi-net rack (2).

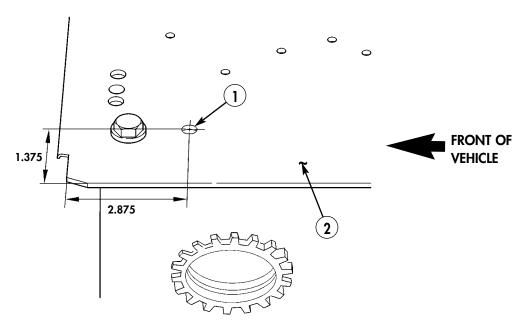
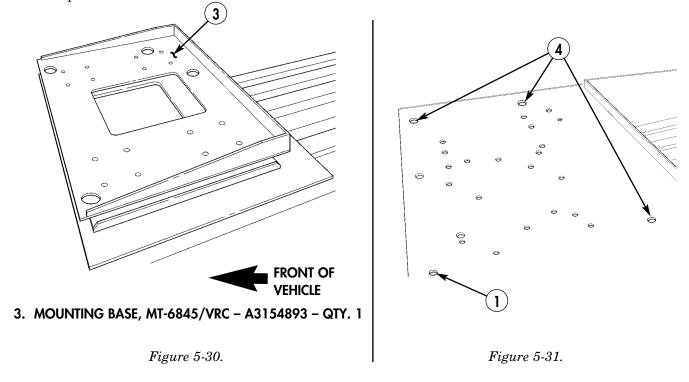


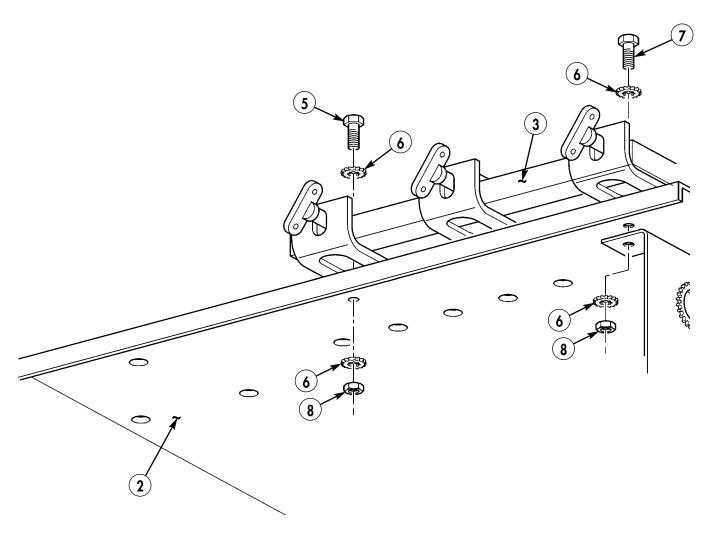
Figure 5-29.

- $\textbf{12-2.} \ \ \textbf{Using MT-6845/VRC mount (3)} \ \ \textbf{as template, locate, mark, and drill three remaining holes (4)}.$
- **12-3.** Remove paint from vicinity of four mounting holes (4) and (1). Apply anti-seize compound as required.



TB 9-2320-280-35-7

- **12-4.** Mount MT-6845/VRC mount (3) on multi-net rack (2) with two capscrews (5), four lockwashers (6) and two nuts (8).
- **12-5.** Secure MT-6845/VRC mount (3) to multi-net rack (2) with two capscrews (7), four lockwashers (6), and two nuts (8).

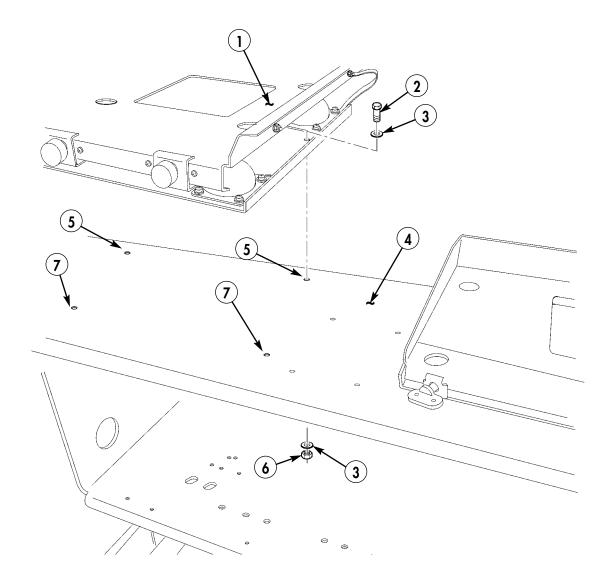


- 5. CAPSCREW B1821BH031F100N QTY. 2
- 6. LOCKWASHER MS45904-72 QTY. 8
- 7. CAPSCREW B1821BH031F125N QTY. 2
- 8. NUT MS51968-5 QTY. 4

Figure 5-32.

Section XIII. EPLRS MOUNT INSTALLATION

- **13-1.** Align MT-6146/VSQ mount (1) with two existing holes (5).
- **13-2.** Using MT-6146/VSQ-1 mount (1) as template, locate, mark, and drill two 0.343-in. diameter holes (7). Remove paint from vicinity of four mounting holes (5) and (7). Apply anti-seize compound as required.
- **13-3.** Install MT-6146/VSQ-1 mount (1) on multi-net rack (4) with four capscrews (2), eight lockwashers (3), and four nuts (6).



- 2. CAPSCREW B1821BH031F125N QTY. 4
- 3. LOCKWASHER MS45904-72 QTY. 8
- 6. NUT 9418892 QTY. 4

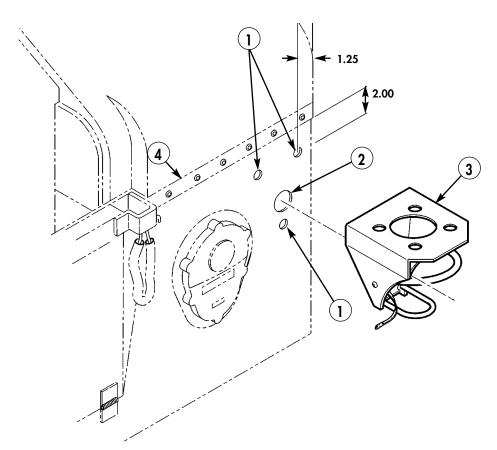
Figure 5-33.

Section XIV. SINCGARS ANTENNA INSTALLATION

NOTE

This procedure applies to vehicles without existing antennas. For vehicles with existing antennas, remove all control cables. (Refer to TM 9-2320-280-20.)

- **14-1.** Using antenna mounting bracket (3) as template, locate, mark, and drill 1.375-in. diameter hole (2) in right rear wall (4).
- **14-2.** Locate, mark, and drill three 0.343-in. diameter holes (1) in rear wall (4).
- **14-3.** Remove paint from vicinity of three holes (1) and three matching holes in antenna mounting bracket (3).
- **14-4.** Apply anti-seize compound to vicinity of three holes (1) and rear of antenna mounting bracket (3).



3. ANTENNA MOUNTING BRACKET - A3014546-1 - QTY. 1

Figure 5-34.

- **14-5.** Install grommet (12) in hole of rear wall (4).
- **14-6.** Position antenna (13) and gasket (7) on antenna mounting bracket (3) and route existing ground strap (9) through antenna mounting bracket (3).
- **14-7.** Install antenna (13) on antenna bracket (3) with four capscrews (5), eight lockwashers (6), and four nuts (8).
- **14-8.** Install antenna mounting bracket (3) on rear wall (4) with two capscrews (10), lockwashers (6), washers (14), and nuts (15).
- **14-9.** Remove old terminal lug, and install new terminal lug (11) on ground strap (9). Install ground strap (9) and antenna bracket (3) on rear wall (4) with capscrew (10), lockwasher (6), washer (14), and nut (15).

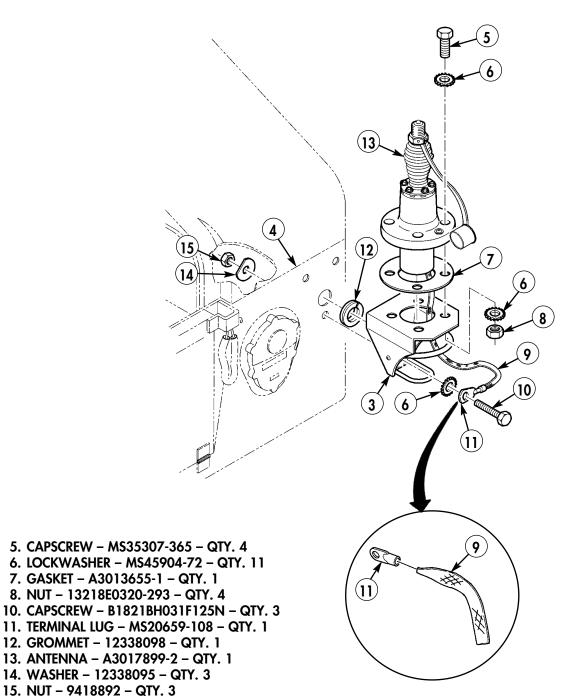
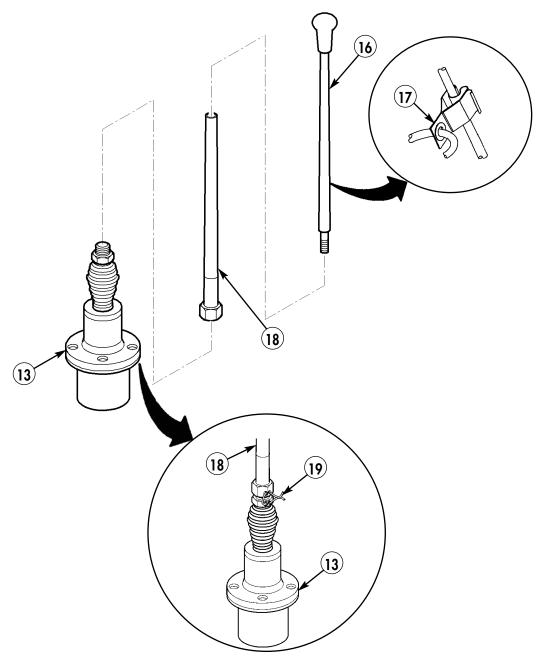


Figure 5-35.

- 14-10. Attach upper antenna element (16) to lower antenna element (18).
- 14-11. Attach antenna assembly to antenna base (13).
- **14-12.** Attach fiber rope assembly (17) to upper antenna element (16).
- 14-13. Secure lower antenna element (18) to antenna base (13) with lockwire (19).



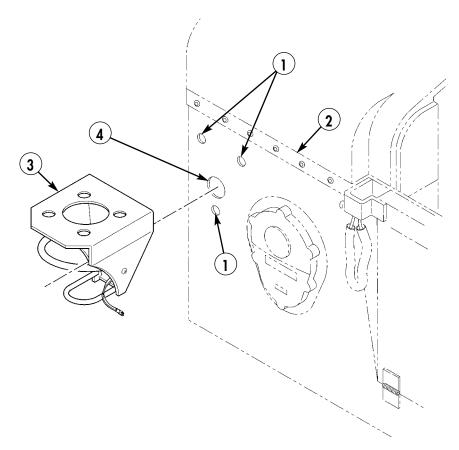
- 16. UPPER ANTENNA ELEMENT A3017901-2 QTY. 1
- 18. LOWER ANTENNA ELEMENT A3018230-1 QTY. 1
- 19. LOCKWIRE MS20995C32 QTY. A/R

Figure 5-36.

Section XV. EPLRS ANTENNA INSTALLATION

This procedure applies to vehicles without existing antennas. For vehicles with existing antennas, remove all control cables. (Refer to TM 9-2320-280-20.)

- **15-1.** Using antenna mounting bracket (3) as template, locate, mark, and drill 1.375-in. diameter hole (4) in left rear wall (2).
- **15-2.** Locate, mark, and drill three 0.343-in. diameter holes (1) in rear wall (2).
- **15-3.** Remove paint from vicinity of three holes (1) and three matching holes in antenna mounting bracket (3).
- **15-4.** Apply anti-seize compound to vicinity of three holes (1) and rear of antenna mounting bracket (3).

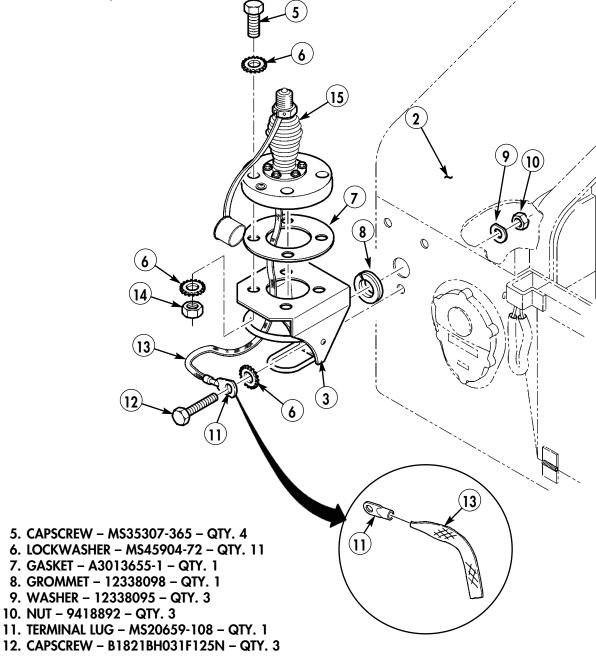


3. ANTENNA MOUNTING BRACKET - A3014546-1 - QTY. 1

Figure 5-37.

- **15-5.** Install grommet (8) in hole of rear wall (2).
- **15-6.** Position antenna (15) and gasket (7) on antenna mounting bracket (3) and route existing ground strap (13) through antenna mounting bracket (3).
- **15-7.** Install antenna (15) on antenna mounting bracket (3) with four capscrews (5), eight lockwashers (6), and four nuts (14).
- **15-8.** Install antenna mounting bracket (3) on rear wall (2) with two capscrews (12), lockwashers (6), washers (9), and nuts (10).

15-9. Remove old terminal lug, and install new terminal lug (11) on ground strap (13). Install ground strap (13) and antenna mounting bracket (3) on rear wall (2) with capscrew (12), lockwasher (6), washer (9), and nut (10).



- 14. NUT 13218E0320-293 QTY. 4
- 15. ANTENNA A3005031 QTY. 1

Figure 5-38.

Section XVI. USER READOUT (URO) BRACKET INSTALLATION

16-1. Remove two screws (2) and connector mounting bracket (3) from User Readout (URO) bracket (1) and discard.

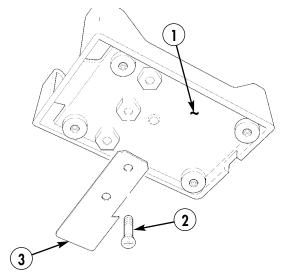
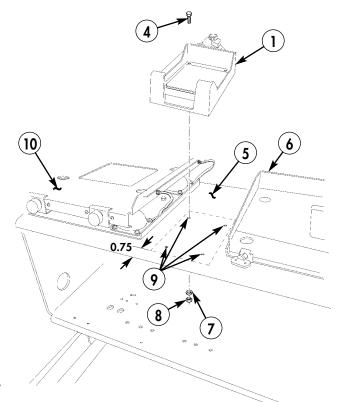


Figure 5-39.

- **16-2.** Center URO bracket (1) on multi-net rack (5) between MT-6146/VSQ-1 mount (10) and MT-6352 mount (6).
- **16-3.** Locate, mark, and drill four 0.218-in. diameter mounting screw holes (9).
- **16-4.** Install URO bracket (1) on multi-net rack (5) with four screws (4), lockwashers (7), and nuts (8).

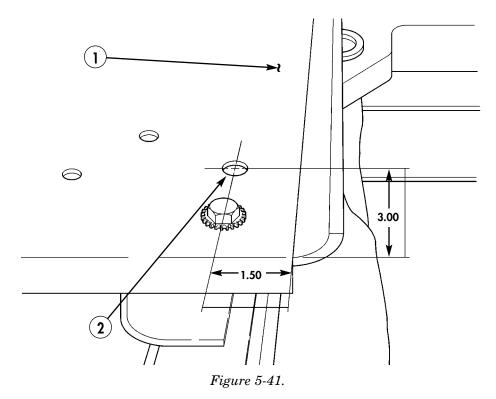


- 1. URO (USER READOUT) BRACKET – A3006206 – QTY. 1
- 4. SCREW MS35207-265 QTY. 4
- 7. LOCKWASHER MS35338-43 QTY. 4
- 8. NUT MS35650-302 QTY. 4

Figure 5-40.

Section XVII. REAR SINCGARS MOUNT INSTALLATION

17-1. Locate, mark, and drill 0.343-in. diameter hole (2) in lower shelf of multi-net rack (1).



- **17-2.** Using SINCGARS mounting base MT-6352/VRC as template, locate, mark, and drill four 0.343-in. diameter holes (3) in lower shelf of multi-net rack (1).
- **17-3.** Remove paint from vicinity of holes (3) and apply anti-seize compound as required.

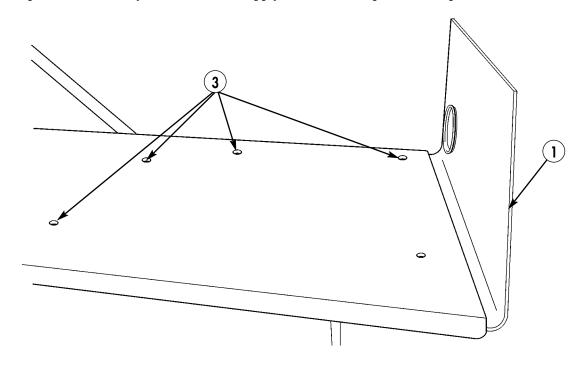
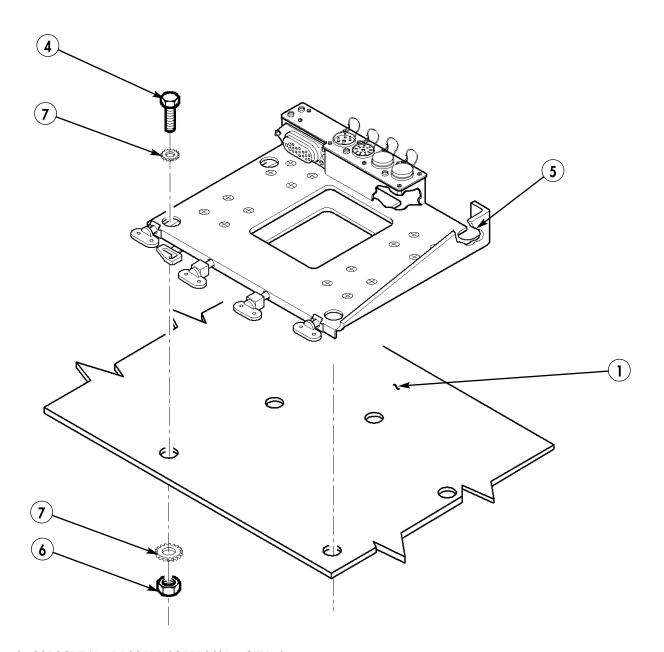


Figure 5-42.

17-4. Install SINCGARS mounting base MT-6352/VRC (5) on multi-net rack (1) using four capscrews (4), eight lockwashers (7), and four nuts (6).



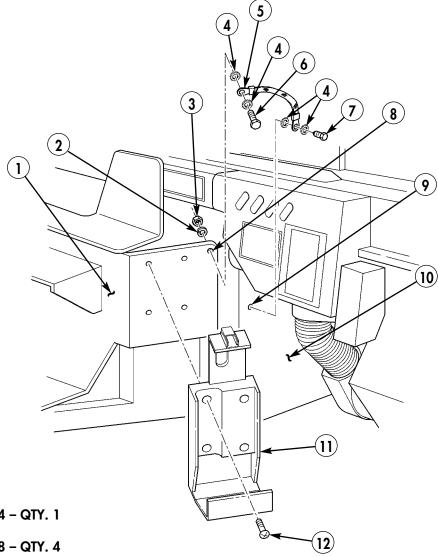
- 4. CAPSCREW B1821BH031F100N QTY. 4
- 5. MOUNTING BASE, MT-6352/VRC A3013367-1 QTY. 1
- 6. NUT MS51968-5 QTY. 4
- 7. LOCKWASHER MS45904-72 QTY. 8

Figure 5-43.

Section XVIII. PLGR BRACKET INSTALLATION

- **18-1.** Install PLGR bracket (11) on integrated rack (1) with four screws (12).
- 18-2. Locate, mark, and drill one 0.201-in. diameter hole (9) in right-side engine tunnel (10).
- **18-3.** Remove paint from vicinity of hole (8) on integrated rack (1) and hole (9) on right-side engine tunnel (10). Apply anti-seize compound as required.
- **18-4.** Fabricate ground strap (5) from 8.00-in. length of braided wire and two terminal lugs.
- **18-5.** Install ground strap (5) on integrated rack (1) with capscrew (6), two lockwashers (4), lockwasher (2), and nut (3).

18-6. Install ground strap (5) on right-side engine tunnel (10) with self-tapping screw (7) and two lockwashers (4).



- 2. LOCKWASHER MS35338-44 QTY. 1
- 3. NUT 9419143 QTY. 1
- 4. LOCKWASHER MS45904-68 QTY. 4
- 5. GROUND STRAP
 - BRAIDED WIRE AA59569F30T0375 QTY. A/R
 - TERMINAL LUG MS20659-129 QTY. 2
- 6. CAPSCREW B1821BH025C100N QTY. 1
- 7. SELF-TAPPING SCREW 9426241 QTY. 1
- 11. PLGR BRACKET 986-0645-001 QTY. 1
- 12. SCREW MS35206-263 QTY. 4

Figure 5-44.

Section XIX. PLGR ANTENNA AND CABLE INSTALLATION

19-1. Remove two plugs (1) from outer right-side windshield frame (3).

Drilled holes on inside and outside of windshield frame should be aligned to allow routing of PLGR cable through windshield frame.

19-2. Locate, mark, and drill 0.375-in. diameter hole (2) in outer right-side windshield frame (3).

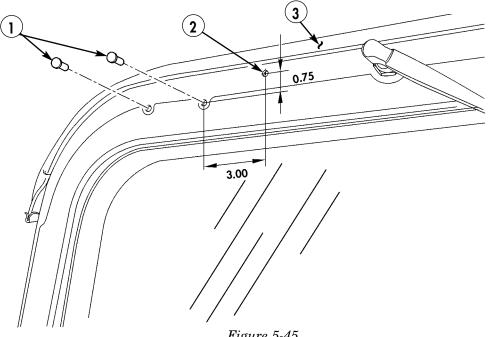


Figure 5-45.

19-3. Locate, mark, and drill 0.375-in. diameter hole (4) in inner right-side windshield frame (5).

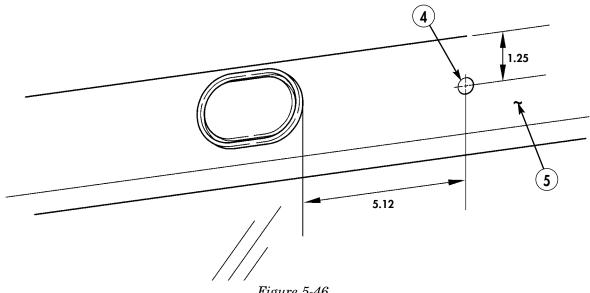
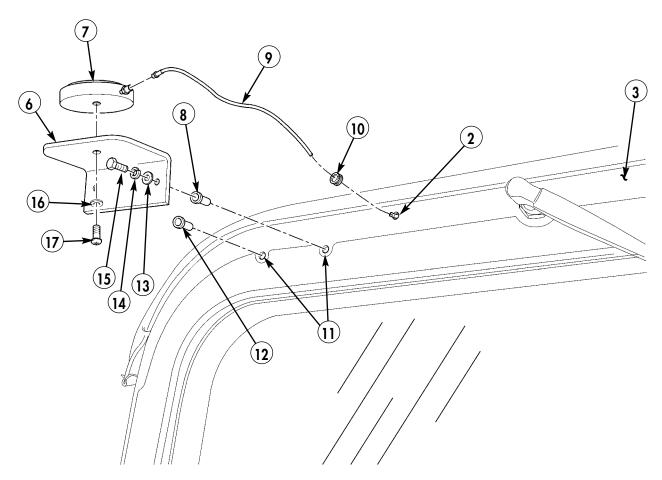


Figure 5-46.

TB 9-2320-280-35-7

- 19-4. Pull PLGR antenna cable (9) through hole (2) in outer right-side windshield frame (3).
- **19-5.** Split one side of grommet (10), place on PLGR antenna cable (9), and insert grommet (10) in hole (2) in outer right-side windshield frame (3).
- **19-6.** Install wellnuts (8) and (12) in holes (11).
- **19-7.** Install PLGR antenna mount bracket (6) on outer right-side windshield frame (3) with two washers (13), lockwashers (14), and capscrews (15).
- 19-8. Install PLGR antenna (7) on PLGR antenna mount bracket (6) with washer (16) and screw (17).
- 19-9. Attach PLGR antenna cable (9) to PLGR antenna (7).



- 6. PLGR ANTENNA MOUNT BRACKET 12480578 QTY. 1
- 7. PLGR ANTENNA AT575-030 QTY. 1
- 8. WELLNUT 12339397-6 QTY. 1
- 9. PLGR ANTENNA CABLE -426-0141-050 QTY. 1
- 10. GROMMET MS35489-143 QTY. 1
- 12. WELLNUT 12339397-3 QTY. 1
- 13. LOCKWASHER MS35338-44 QTY. 2
- 14. WASHER 9414920 QTY. 2
- 15. CAPSCREW B1821BH025C125N QTY. 2
- 16. WASHER 9417373 QTY. 1
- 17. SCREW 160035 QTY. 1

Figure 5-47.

- **19-10.** Split one side of grommet (10) and place on PLGR antenna cable (9).
- 19-11. Insert PLGR antenna cable (9) and grommet (10) in hole (4) in inner right windshield frame (5).

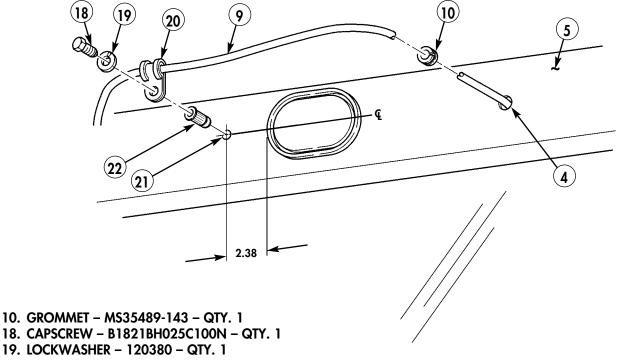
If sun visor kit has not been installed, perform steps 19-12 and 19-13. If sun visor has been installed, perform step 19-14.

- 19-12. Locate, mark, and drill 0.390-in. diameter hole (21) in windshield frame (5).
- **19-13.** Install insert (22) in hole (21).

NOTE

Perform step 19-14 only if sun visor kit has been installed.

- **19-14.** Remove capscrew (18) and lockwasher (19).
- **19-15.** Route PLGR antenna cable (9) along inner right windshield frame (5) with loop clamp (20), lockwasher (19), and capscrew (18).



- 20. LOOP CLAMP MS21333-96 QTY. 1
- 22. INSERT 12446871-2 QTY. 1

Figure 5-48.

- 19-16. Locate, mark, and drill two 0.147-in. diameter holes (27) in windshield center frame (28).
- **19-17.** Route PLGR antenna cable (9) along windshield center frame (28) with two self-tapping screws (25), loop clamps (26) and (20), existing screw (23), and washer (24).

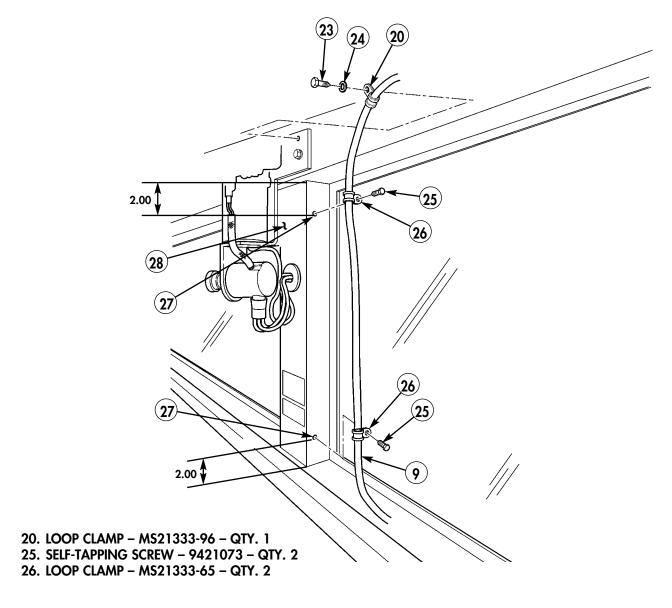
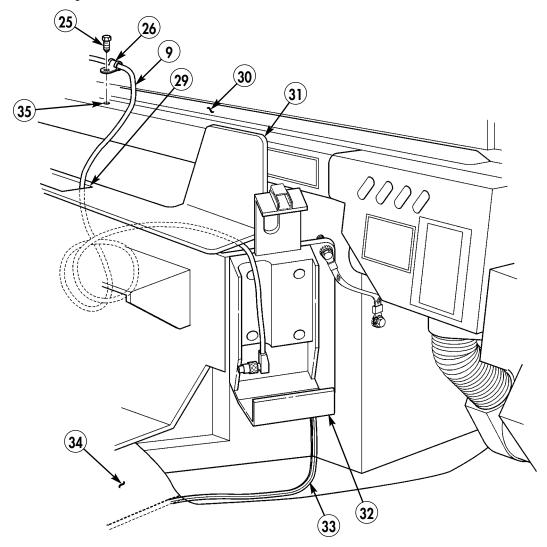


Figure 5-49.

- 19-18. Locate, mark, and drill 0.147-in. hole (35) in top of windshield frame (30).
- **19-19.** Route PLGR antenna cable (9) on top of windshield frame (30) and secure with loop clamp (26) and self-tapping screw (25).
- **19-20.** Route PLGR antenna cable (9) down through center access hole (29) of integrated rack (31), and coil excess antenna cable (9) under integrated rack (31).
- **19-21.** Route PLGR power cable (33) from PLGR installation mount (32) to right-side tunnel insulation (34).

Loosen right-side tunnel insulation before performing step 19-22. (Refer to TM 9-2320-280-20.)

19-22. Route PLGR power cable (33) under edge of right-side tunnel insulation (34) to 24V terminal bar at cab enclosure panel.



- 25. SELF-TAPPING SCREW 9421073 QTY. 1
- 26. LOOP CLAMP MS21333-65 QTY. 1
- 33. PLGR POWER CABLE 9728558-10 QTY. 1

Figure 5-50.

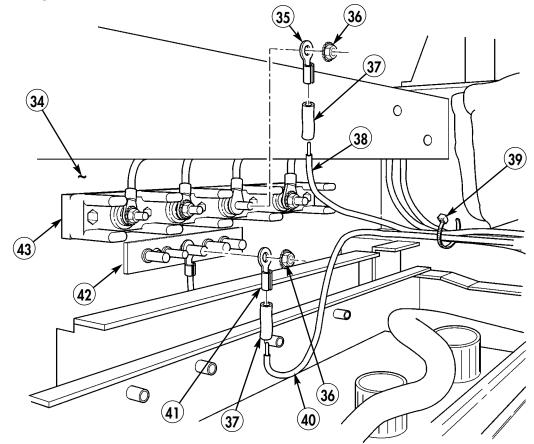
PLGR power cable positive lead insulation is ribbed.

- **19-23.** Attach shrink tubing (37) and terminal lugs (35) and (41) to PLGR power cable negative lead (40) and PLGR power cable positive lead (38). (Refer to TM9-2320-280-20 for terminal connector repair.)
- **19-24.** Attach PLGR power cable positive lead (38) to 24-volt terminal board (43), located on cab enclosure panel (34), with existing nut (36).
- **19-25.** Attach PLGR power cable negative lead (40) to ground strap (42), located on cab enclosure panel (34), with existing nut (36).
- **19-26.** Coil excess positive and negative power leads (38) and (40), place beneath ground strap (42), and secure with tiedown strap (39).

NOTE

Ensure all excess antenna cable is inside cab of vehicle.

- **19-27.** Coil excess antenna cable and store under integrated rack using tiedown strap as necessary. (Refer to Figure 5-50.)
- 19-28. Install right-side tunnel insulation. (Refer to TM 9-2320-280-20.)

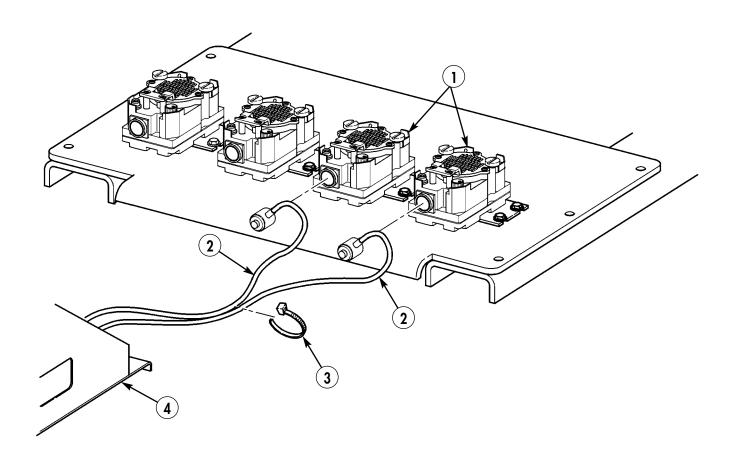


- 35. TERMINAL LUG 7728780 QTY. 1
- 37. SHRINK TUBING MS23053/4-302-0 QTY. A/R
- 39. TIEDOWN STRAP MS3367-1-0 QTY. A/R
- 41. TERMINAL LUG 7728777 QTY. 1

Figure. 5-51.

Section XX. LOUDSPEAKER CABLES INSTALLATION

- **20-1.** Connect speaker cables (2) to loudspeakers (1).
- **20-2.** Secure cables (2) with tiedown strap (3).
- **20-3.** Route speaker cables (2) to integrated rack (4).



3. TIEDOWN STRAP - MS3367-1-0 - QTY. 1

Figure 5-52.

20-4. Route speaker cables (2) through center access hole (6) in integrated rack (4) and behind SINCGARS mounting base MT-6352/VRC (5).

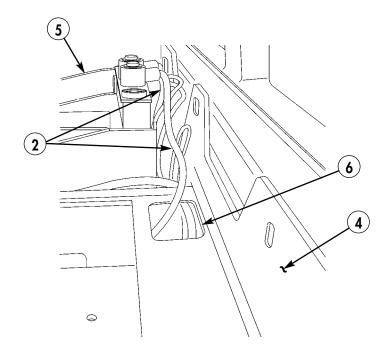


Figure 5-53.

 $\textbf{20-5.} \ \ \text{Mount speaker cables (2) on SINCGARS mounting base power distribution (7)}.$

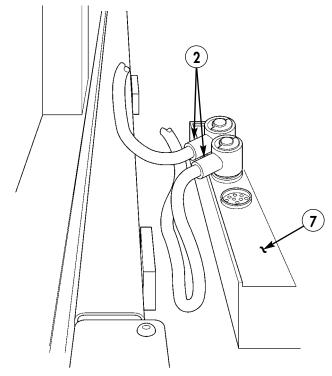


Figure 5-54.

20-6. Connect two speaker cables (10) to two loudspeakers (8). Route two speaker cables (10) under lower shelf (9).

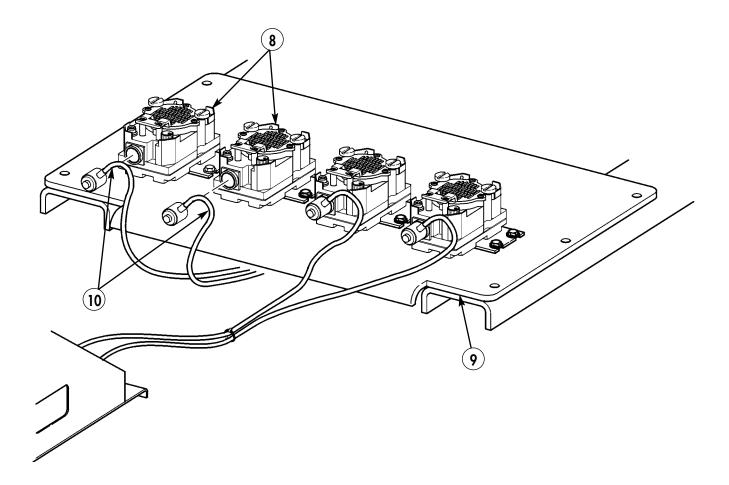


Figure 5-55.

20-7. Connect two speaker cables (10) to SINCGARS mounting base MT-6352/VRC (5).

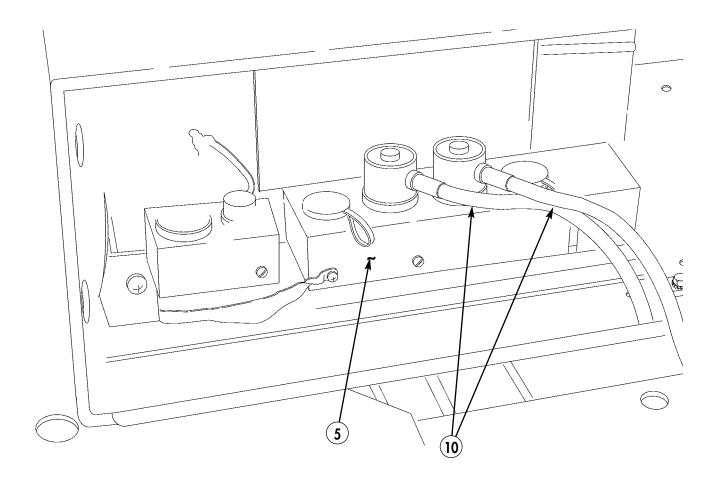


Figure 5-56.

Section XXI. ANTENNA CABLE INSTALLATION

NOTE

This procedure applies to vehicles without existing antennas. For vehicles with existing antennas, remove all control cables. (Refer to TM 9-2320-280-20.)

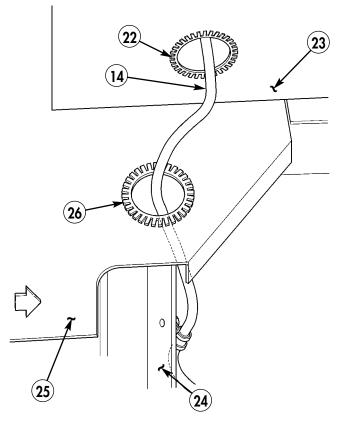
21-1. Attach antenna cable (15) to antenna base (17).

5. SELF-TAPPING SCREW - 9421073 - QTY. 2 12. TIEDOWN STRAP - MS3367-1-0 - QTY. A/R

- **21-2.** Route antenna cable (15) from antenna base (17) with existing loop clamp (8), nut (11), lockwasher (10), and screw (7).
- **21-3.** Route antenna cable (15) along taillight wiring harness with two existing loop clamps (16) and (14), self-tapping screws (6), and lockwashers (13).
- **21-4.** Route antenna cable (15) along rear (19), intermediate (20), and front (21) cargo bed supports and along front wheelwell seam (2). Secure with two self-tapping screws (5), loop clamps (3), capscrew (4), loop clamp (3), nut (1), and existing self-tapping screw (6) and clamp (18).
- **21-5.** Route antenna cable through right wheelwell/utility area with existing clamp, grommet, retainer, screws, lockwashers, and plain-assembled nuts. (Refer to TM 9-2320-280-20.)

21-6. Coil excess antenna cable (15) and secure to inside of taillight closeout cover with tiedown strap (12). (21) (3) (20) 3 (3) (19) (18) 16 (15 8 5 10 1. NUT - MS35650-302 - QTY. 1 3. LOOP CLAMP - MS21333-69 - QTY. 3 4. CAPSCREW - MS35224-65 - QTY. 1

21-7. Route antenna cable (14), along C-beam (24) through hole (26) in frame (25) and into lower hole (22) in multi-net rack (23).



14. CABLE, ANTENNA, RED - A3014032-14 - QTY. 1

Figure~5-58.

21-8. Route antenna cable (14) through upper hole (28) in multi-net rack (25), under EPLRS mount MT-6146/VSQ (27), to vicinity of FHMUX mount MT-6845/VRC.

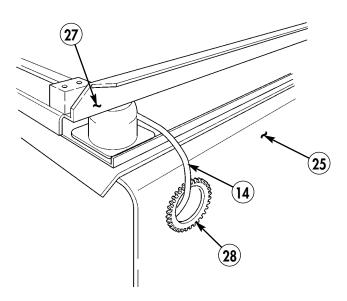
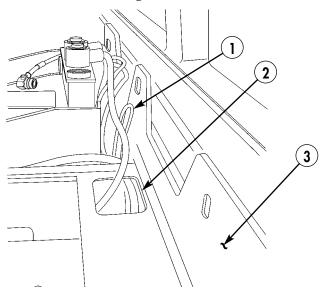


Figure 5-59.

Section XXII. FHMUX ANTENNA CABLES INSTALLATION NOTE

Ensure rear SINCGARS mounting base MT-6352/VRC has been installed. (Refer to chapter 5, section XVII.)

22-1. Route bundle with red antenna cable (1) through center access hole (2) in integrated rack (3).



1. CABLE, ANTENNA, RED - A3014032-14 - QTY. 1

Figure 5-60.

- **22-2.** Route bundle with red antenna cable (1) under integrated rack (3) to multi-net rack (4) and FHMUX mount MT-6845/VRC (5).
- 22-3. Coil excess cable under FHMUX mount MT-6845/VRC (5).

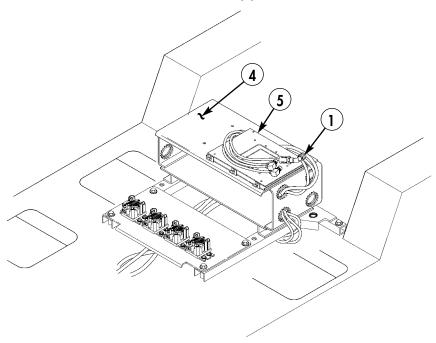
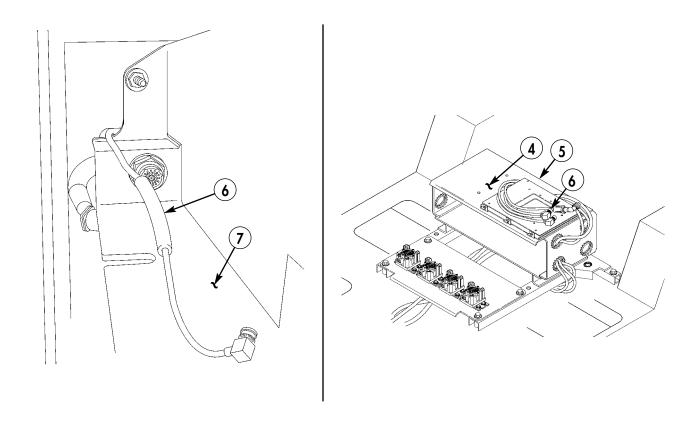


Figure 5-61.

Perform steps 22-4 through 22-7 for SINCGARS model AN/VRC-92F only.

- **22-4.** Route white antenna cable (6) to MT-6353/VRC power amp assembly (7).
- **22-5.** Route white antenna cable (6) along floor and under multi-net rack (4).
- 22-6. Route white antenna cable (6) to FHMUX mount MT-6845/VRC (5).
- 22-7. Coil excess cable under FHMUX mount MT-6845/VRC (5).



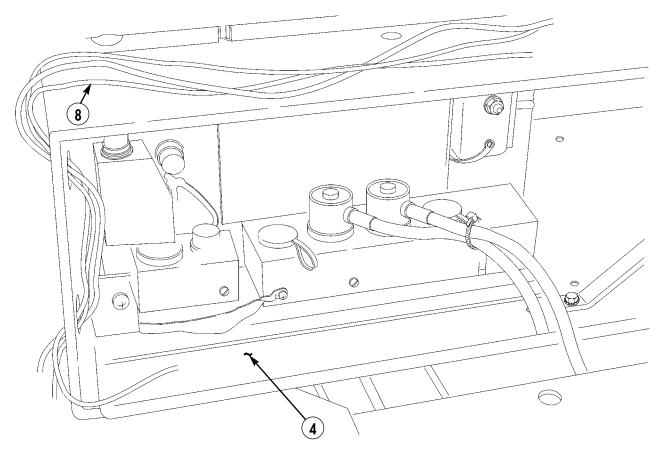
6. CABLE, ANTENNA, WHITE - A3014032-14 - QTY. 1

Figure 5-62.

Figure 5-63.

Route green antenna cable A3014032-13 similarly, if required.

- 22-8. Route bundle with orange antenna cable (8) from SINCGARS mounting base MT-6352/VRC.
- **22-9.** Route bundle with orange antenna cable (8) through multi-net rack (4).



8. CABLE, ANTENNA, ORANGE - A3014032-13 - QTY. 1

Figure~5-64.

TB 9-2320-280-35-7

- 22-10. Route bundle with orange antenna cable (8) to FHMUX mount MT-6845/VRC (5).
- 22-11. Coil excess antenna cable (8) under FHMUX mount MT-6845/VRC (5).

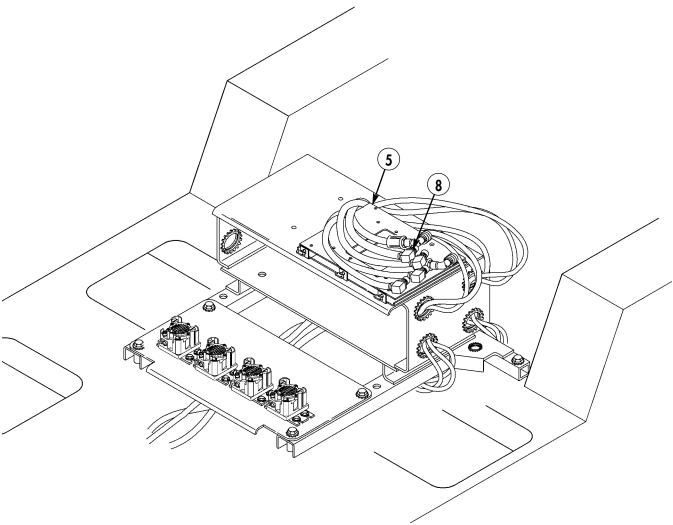
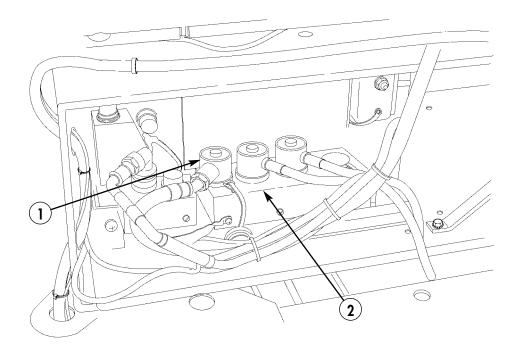


Figure 5-65.

Section XXIII. FHMUX AND SINCGARS POWER CABLES INSTALLATION **NOTE**

Ensure rear SINCGARS mounting base MT-6352/VRC has been installed. (Refer to chapter 5, section XVII.)

23-1. Connect FHMUX power cable (1) to SINCGARS mounting base MT-6352/VRC (2).



2. SINCGARS MOUNTING BASE - MT-6352/VRC - A3013367-1 - QTY. 1

Figure 5-66.

NOTE

Previously installed cables are not shown for clarity.

- **23-2.** Route FHMUX power cable (4) to FHMUX mount MT-6845/VRC (3).
- 23-3. Coil excess cable and stow under FHMUX mount MT-6845/VRC (3).

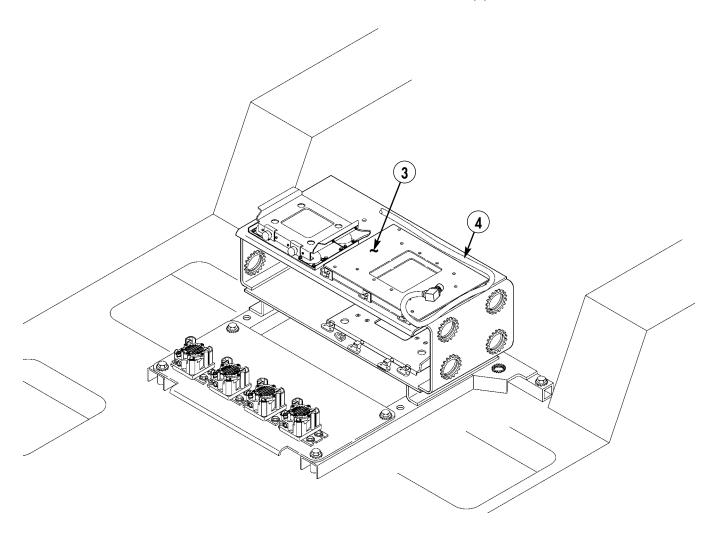
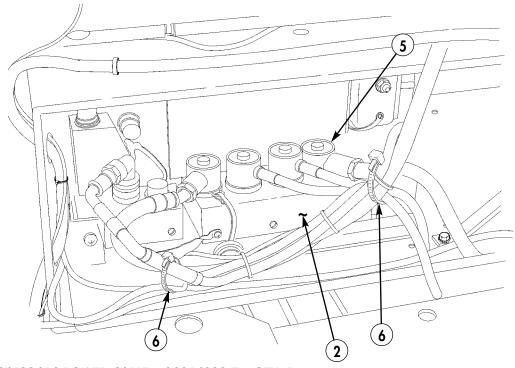


Figure 5-67.

- 23-4. Connect rear SINCGARS power cable (5) to SINCGARS mounting base MT-6352/VRC (2).
- **23-5.** Route rear SINCGARS power cable (5) along B-beam (7) to cab enclosure panel.
- **23-6.** Secure cables (5) together with two tiedown straps (6).
- 23-7. Coil excess cable (5) and store under multi-net rack. (Refer to figure 5-67.)



- 5. REAR SINCGARS POWER CABLE A3014039-7 QTY. 1
- 6. TIEDOWN STRAP MS3367-1-0 QTY. 2

Figure 5-68.

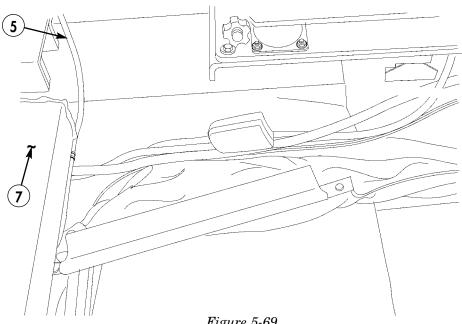


Figure 5-69.

NOTE

Perform steps 23-8 through 23-10 for SINCGARS model AN/VRC-92F only.

- **23-8.** Route auxiliary mount power cable (11) and control cable (10) through center access hole (8) in integrated rack (9).
- 23-9. Connect auxiliary mount power cable (11) to SINCGARS mounting base MT-6352/VRC (2).

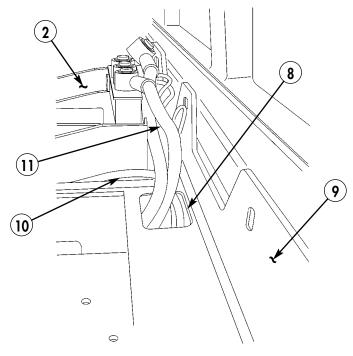


Figure 5-70.

23-10. Route control cable (10) to SINCGARS mounting base MT-6352/VRC (2) on integrated rack (9).

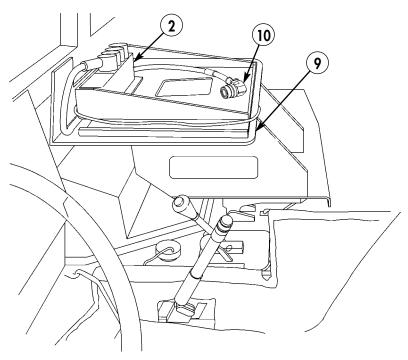


Figure 5-71.

23-11. Route front SINCGARS power cable (12) through center access hole (8) of integrated rack (9).

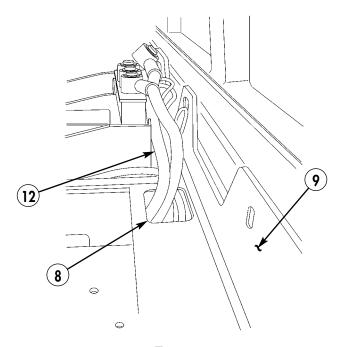
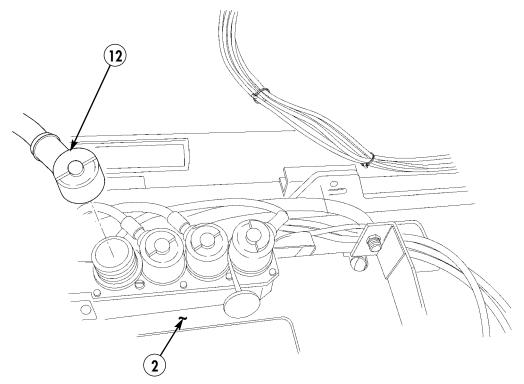


Figure 5-72.

 $\textbf{23-12.} \ \ \text{Connect front SINCGARS power cable (12) to SINCGARS mounting base MT-6352/VRC (2)}.$



Figure~5--73.

Section XXIV. EPLRS CABLES INSTALLATION

24-1. Attach antenna cable (3) to antenna (2) and route through hole in bracket (1).

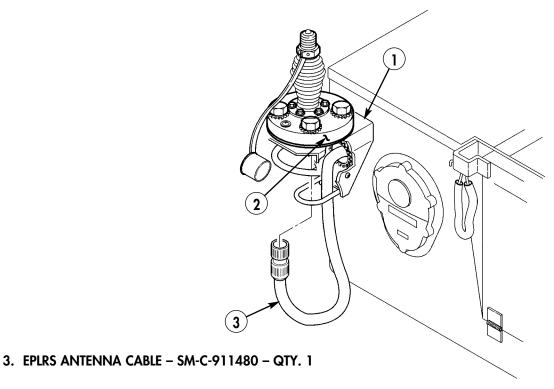
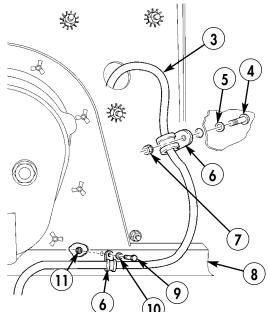


Figure 5-74.

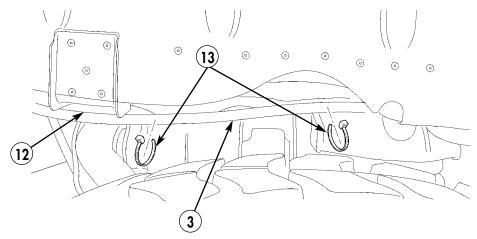
- **24-2.** Route antenna cable (3) along left inside of vehicle with loop clamp (6), existing screw (4), washer (5), and captive nut (7).
- **24-3.** Route antenna cable (3) along crossmember (8) with capscrew (9), washer (10), loop clamp (6), and nut (11).



- 6. LOOP CLAMP MS21333-102 QTY. 2
- 9. CAPSCREW B1821BH025C075N QTY. 1
- 10. WASHER 2436161 QTY. 2
- 11. NUT MS51943-4C QTY. 1

Figure 5-75.

24-4. Route antenna cable (3) along outside rear of vehicle. Secure antenna cable (3) to existing harness (12) with tiedown straps (13) as required.



13. TIEDOWN STRAP - MS3367-1-0 - QTY. A/R

Figure 5-76.

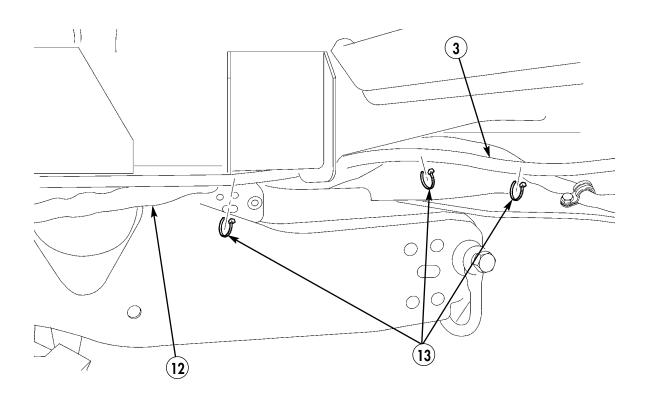
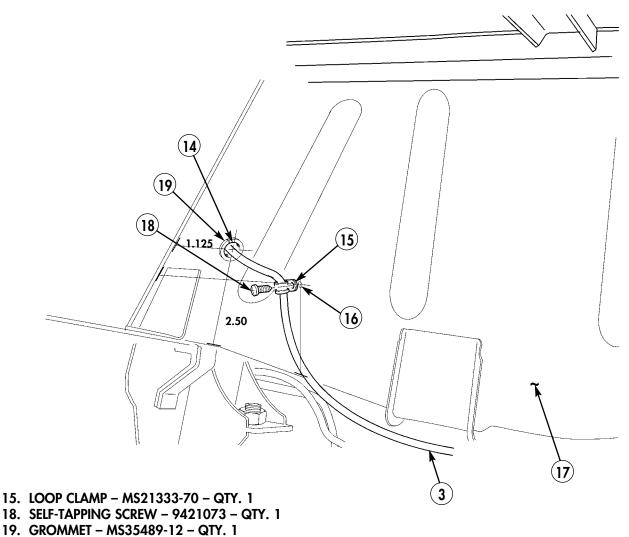


Figure 5-77.

TB 9-2320-280-35-7

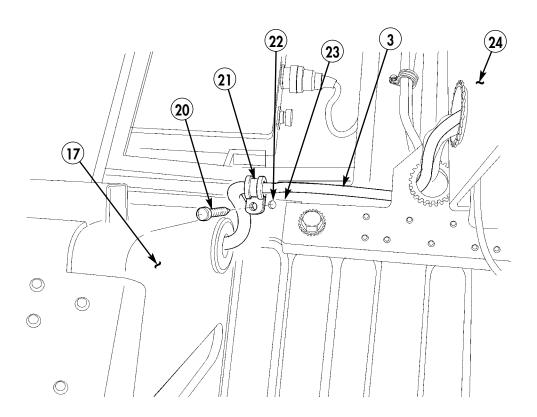
- **24-5.** Route antenna cable (3) along outside of left wheelhouse (17).
- 24-6. Locate, mark, and drill 0.147-in. diameter hole (16) in outer wall of left wheelhouse (17).
- **24-7.** Locate, mark, and drill 1.00-in. diameter hole (14) in outer wall of left wheelhouse (17).
- **24-8.** Install grommet (19) in hole (14).
- **24-9.** Route antenna cable (3) through hole (14).
- **24-10.** Secure antenna cable (3) to left wheelhouse (17) with loop clamp (15) and self-tapping screw (18).



7. GROMMEI – M333407-12 – Q11. 1

Figure 5-78.

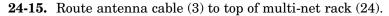
- 24-11. Locate, mark, and drill 0.147-in. diameter hole (22) in lip of cargo floor (23).
- **24-12.** Route left-side antenna cable (3) through left wheelhouse (17) to multi-net rack (24).
- **24-13.** Secure antenna cable (3) with loop clamp (21) and self-tapping screw (20).



- 20. SELF-TAPPING SCREW 9421073 QTY. 1
- 21. LOOP CLAMP MS21333-70 QTY. 1

Figure 5-79.

24-14. Bundle antenna cable (3) with FHMUX cabling (25) and route through multi-net rack (24).



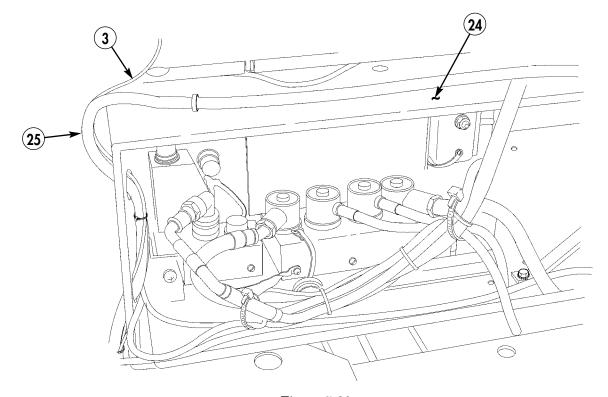


Figure 5-80.

- **24-16.** Route antenna cable (3) to vicinity of EPLRS mount MT-6146/VSQ (26).
- 24-17. Coil and stow excess cable (3) under EPLRS mount MT-6146/VSQ (26).

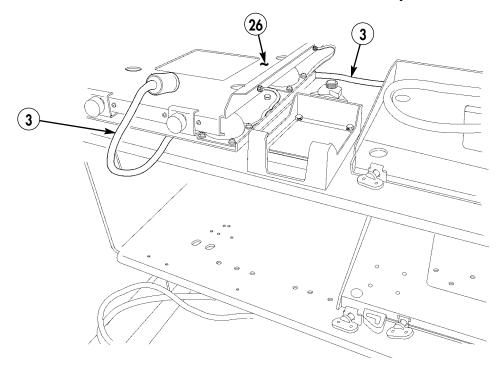
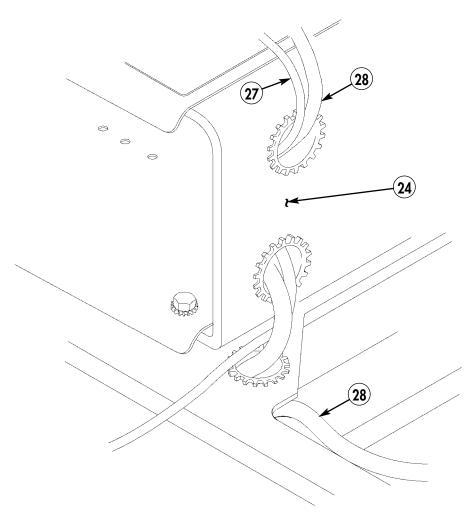


Figure 5-81.

- **24-18.** Route INC-EPUU (27) and power cable (28) from mount unit down through side of multi-net rack (24).
- **24-19.** Route power cable (28) under tunnel insulation to terminal board.



- 27. INC-EPUU CABLE A3279383-2 QTY. 1
- 28. EPLRS POWER CABLE A3004939 QTY. 1

Figure 5-82.

NOTE

Previously installed cables are not shown for clarity.

- 24-20. Route INC-EPUU cable (27) through center access hole (30).
- 24-21. Route INC-EPUU cable (27) to SINCGARS mounting base MT-6352/VRC (29).
- 24-22. Coil excess INC-EPUU cable (27) under integrated rack (31).

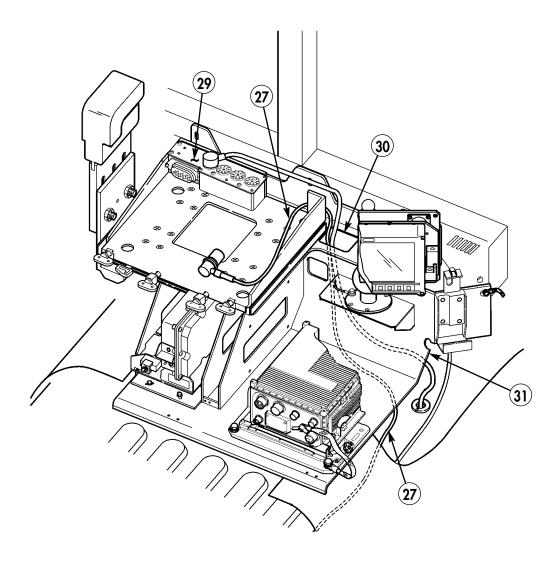
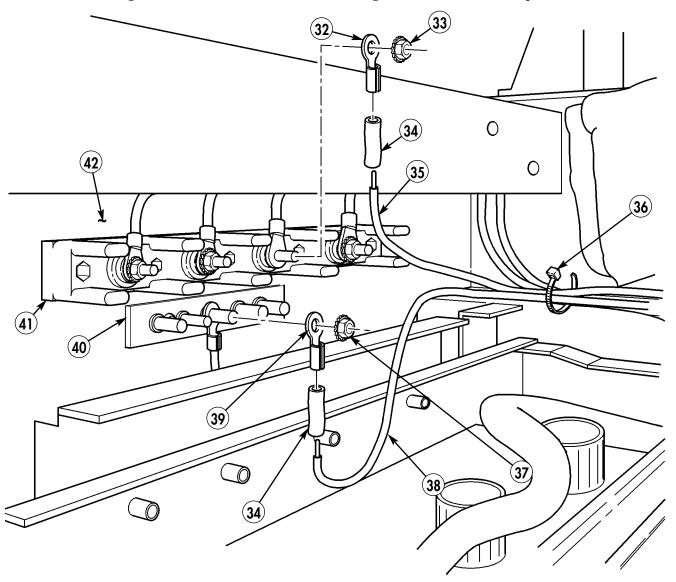


Figure 5-83.

- **24-23.** Attach heat shrink tubing (34) and two terminal lugs (32) and (39) to power cable negative lead (38) and power cable positive lead (35). (Refer to TM 9-2320-280-20 for terminal connector repair.)
- **24-24.** Connect power cable positive lead (35) to 24V terminal board (41), located on cab enclosure panel (42), with existing nut (33).
- **24-25.** Connect power cable negative lead (38) to ground strap (40), located on cab enclosure panel (42), with existing nut (37). Secure leads (35) and (38) together with tiedown strap (36).



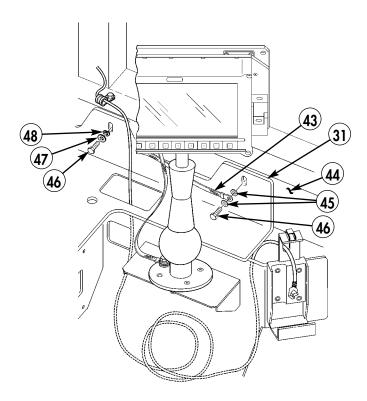
- 32. TERMINAL LUG 7728780 QTY. 1
- 34. SHRINK TUBING MS23053/4-302-0 QTY. A/R
- 36. TIEDOWN STRAP MS3367-1-0 QTY. A/R
- 39. TERMINAL LUG 7728777 QTY. 1

Figure 5-84.

NOTE

Integrated rack will be secured to dash at this time.

24-26. Secure integrated rack (31) to dash (44) with three capscrews (46), two washers (47), lockwashers (48) and (45), and ground strap (43). Tighten lower mounting screws on integrated rack. (Refer to chapter 5, section VII.)



- 45. LOCKWASHER MS45904-68 QTY. 2
- 46. CAPSCREW B1821BH025C100N QTY. 3
- 47. WASHER MS27183-10 QTY. 2
- 48. LOCKWASHER MS35338-44 QTY. 2

Figure 5-85.

Section XXV. DVE HOOD CABLE GUIDE INSTALLATION NOTE

- Cover engine compartment prior to performing DVE installation to keep metal and fiberglass filings out of engine compartment.
- Once DVE installation is complete, Pan and Tilt Module (PTM)
 mount may require adjustment to obtain optimum DVE
 elevation-viewing angle. This adjustment is made by adding or
 removing washers from PTM mounting bolt between HMMWV
 windshields.
- **25-1.** Remove six bolts (3), twelve washers (4), six nuts (7), and hood bracket (6) from hood (1).
- **25-2.** Remove bracket (9) from top side of hood (1).
- **25-3.** Drill out five rivets (8) from hood (1), rubber hood seal (5), and retaining strip (2).
- **25-4.** Remove retaining strip (2) from hood (1).
- **25-5.** Cut retaining strip (2). Discard cut portion of retaining strip (2).
- **25-6.** Cut rubber hood seal (5). Discard cut portion of rubber hood seal (5).

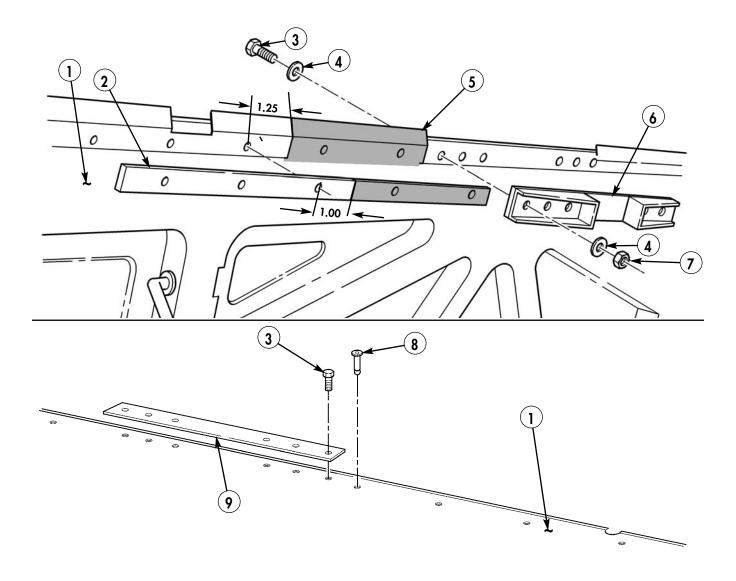


Figure 5-86.

CAUTION

- Use caution to avoid cutting notch in hood too large. If cutout notch is too large, the hood cable guide cannot be correctly installed.
- Remove and retain plug for reinstallation if cutting of hood will damage plug.

NOTE

Use scrap pieces of 2x4 boards to prop open hood.

- **25-7.** Locate, mark, and cut area (10) on hood (1).
- **25-8.** Reinstall hood bracket (6) and bracket (9) on top side of hood (1) with six bolts (3), twelve washers (4), and six nuts (7) on hood (1).
- **25-9.** Reinstall retaining strip (2) with three rivets (8).

NOTE

File hood and hood cable guide as required to ensure a snug fit.

25-10. Ensure hood cable guide (11) fits securely in cut area (10). Remove cable guide (11).

NOTE

Heat lamp or heat gun may be used to speed curing time for adhesive.

25-11. Apply a thin coat of adhesive to hood cable guide (11) and matching area on hood (1), and install cable guide (11) on hood (1).

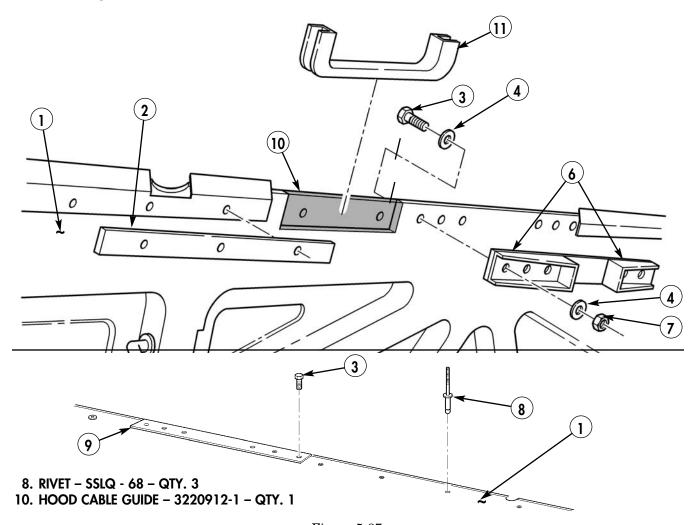
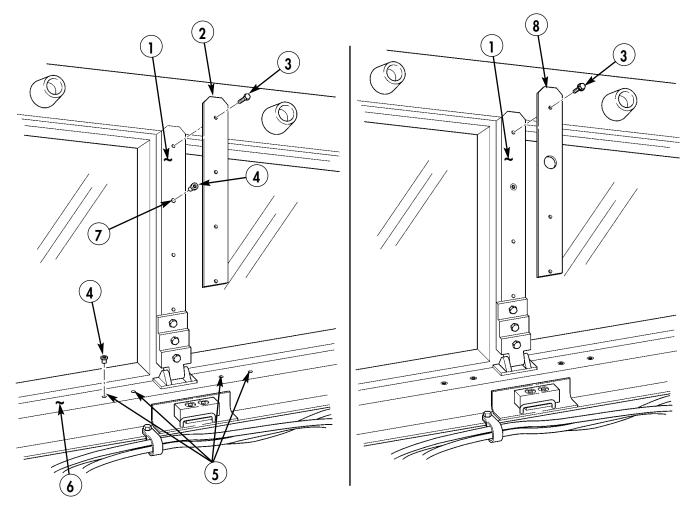


Figure 5-87.

Section XXVI. DVE PAN AND TILT MODULE (PTM) MOUNT ASSEMBLY PREPARATION AND PILLAR MOUNT INSTALLATION

- **25-1.** Remove four existing screws (3) and existing center windshield retainer (2) from center windshield frame (1). Retain three screws (3).
- **25-2.** Using PTM mount assembly as template, locate, mark, and drill four 0.391-in. holes (5) on A-frame pillar flange (6).
- **25-3.** Enlarge hole (7) to 0.391 in. on center windshield frame (1).
- **25-4.** Install one rivet nut (4) on center windshield frame (1) and four rivet nuts (4) on A-frame pillar flange (6).
- 25-5. Install PTM A-pillar mount (8) on center windshield frame (1) with three existing screws (3).



- 4. RIVET NUT 3221003-14 QTY. 5
- 8. PTM A-PILLAR MOUNT- 3221002-1 QTY. 1

Figure 5-88.

Section XXVII. DVE A-FRAME CABLE GUIDE AND PAN AND TILT MODULE (PTM) MOUNT ASSEMBLY INSTALLATION

- 27-1. Remove two screws (2), nuts (4), and clamps (1) from A-frame pillar flange (5). Retain hardware.
- **27-2.** Locate and mark cutout area (3) on A-frame pillar flange (5).
- **27-3.** Cut out area (3) of A-frame pillar flange (5). Use fine-mill file or crocus cloth to remove all burrs and sharp edges.

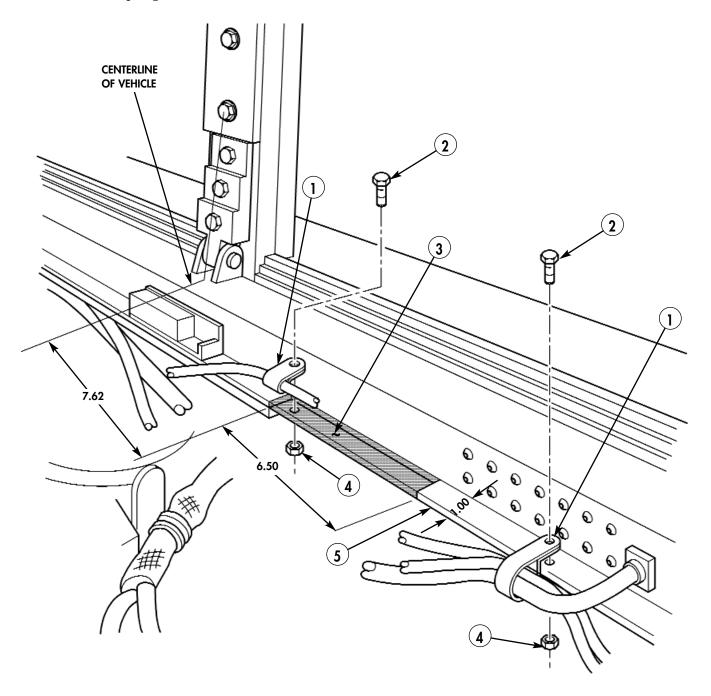


Figure 5-89.

- **27-4.** Using A-frame cable guide (13) as template, mark four mounting hole locations (11), (8), and (6).
- **27-5.** Drill two 0.391-in. holes (8) on vertical wall (7).
- **27-6.** Drill two 0.277-in. holes (6) and (11) on A-frame pillar flange (5).
- **27-7.** Install two rivet nuts (12) on vertical wall (7).
- **27-8.** Apply thin coat of adhesive to A-frame cable guide (13) and matching areas on A-frame pillar flange (5) and vertical wall (7).
- **27-9.** Install A-frame cable guide (13) on A-frame pillar flange (5) and vertical wall (7) with four capscrews (9), six washers (10), and two locknuts (14).
- **27-10.** Locate, mark, and drill 0.221-in. hole (15) on center of A-frame pillar flange (5).
- **27-11.** Reinstall two cable clamps (1) on A-frame pillar flange (5) with existing screws (2) and nuts (4).

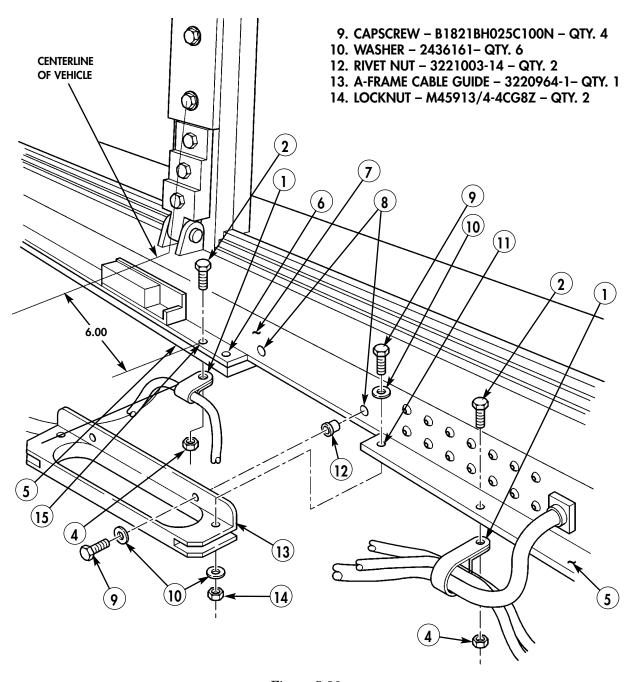
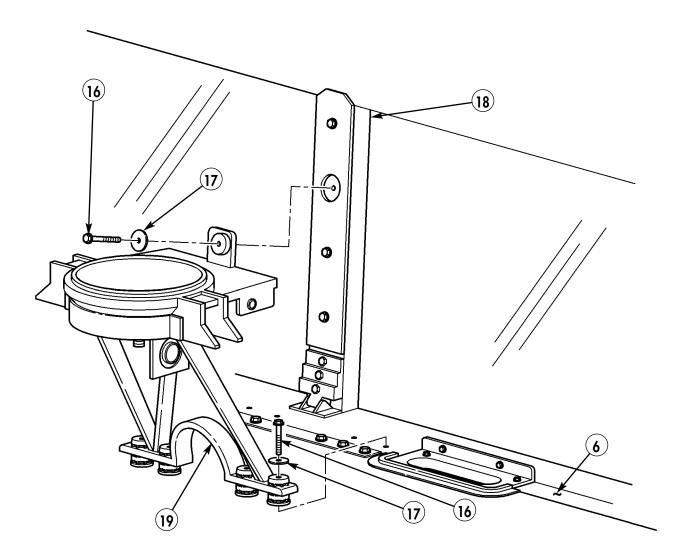


Figure 5-90.

27-12. Install PTM mount assembly (19) on A-frame pillar flange (6) with four capscrews (16) and washers (17), and on center windshield frame (18) with capscrew (16) and washer (17).

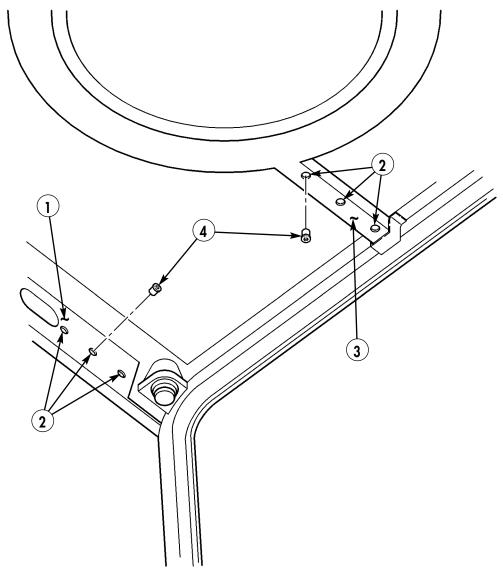


- 16. CAPSCREW B1821BH025C300N QTY. 5
- 17. WASHER 3221003-9 QTY. 5
- 19. PTM MOUNT ASSEMBLY 3220952-1 QTY. 1

Figure 5-91.

Section XXVIII. DVE DISPLAY CONTROL MODULE (DCM) ROOF MOUNT INSTALLATION

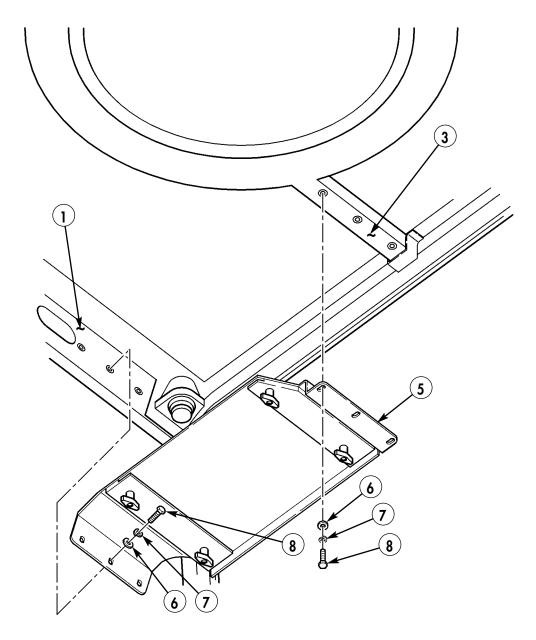
- DCM mount is installed flush with vehicle roof. Remove roof insulation on driver's side if necessary. (Refer to TM 9-2320-280-20.)
- Remove driver's side sun visor if installed. (Refer to TM 9-2320-280-20.)
- **28-1.** Using DCM roof mount as template, locate, mark, and drill six 0.391-in. holes (2) on driver's side support rail (3) and driver's side outer rail (1).
- **28-2.** Install six rivet nuts (4) in six holes (2).



4. RIVET NUT - 3221003-14 - QTY. 6

Figure 5-92.

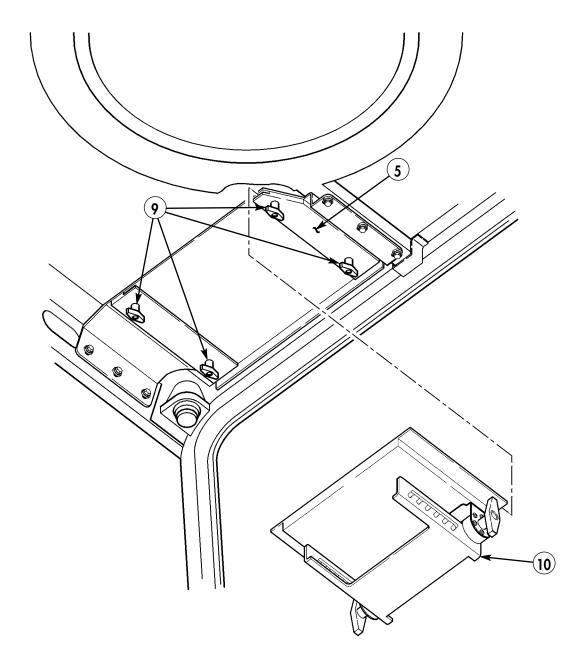
28-3. Install DCM roof mount (5) on driver's side outer rail (1) and driver's side support rail (3) with six capscrews (8), lockwashers (7), and washers (6).



- 5. DCM ROOF MOUNT BRACKET 3245782-1 QTY. 1
- 6. WASHERS 2436161 QTY. 6
- 7. LOCKWASHER MS35338-44 QTY. 6
- 8. CAPSCREW B182BH025C100N QTY. 6

Figure 5-93.

28-4. Loosen four hand knobs (9) on DCM roof mount (5). Slide DCM mount (10) onto DCM roof mount (5). Tighten four hand knobs (9).



10. DCM MOUNT - 3221839-1 - QTY. 1

Figure 5-94.

Section XXIX. PAN AND TILT MODULE (PTM) CONTROL MOUNTING BRACKET INSTALLATION

NOTE

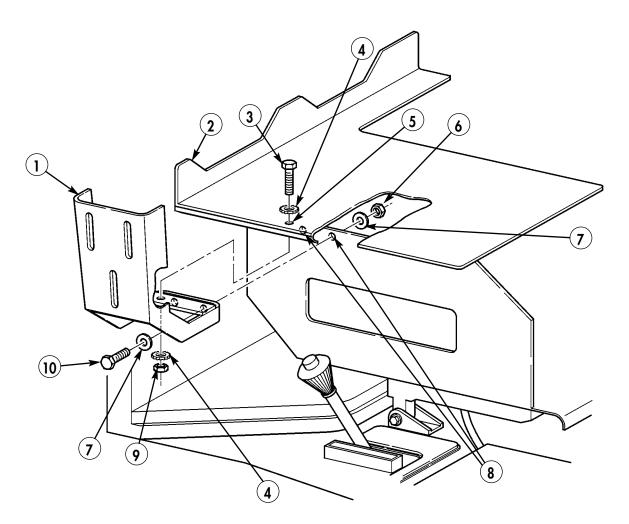
SINCGARS mount and amp guard share existing mounting hardware with PTM control mounting bracket.

- 29-1. Remove SINCGARS mount and amp guard if necessary. (Refer to chapter 5, section VIII.)
- **29-2.** Using existing hole (5) and PTM control mounting bracket (1) as template, locate, mark, and drill two 0.281-in. holes (8) on integrated rack (2).

NOTE

SINCGARS mount and amp guard must be in place before PTM mount is installed.

- 29-3. Install SINCGARS mount and amp guard if removed. (Refer to chapter 5, section VIII.)
- **29-4.** Install PTM control mounting bracket (1) on integrated rack (2) with two capscrews (10), four washers (7), two locknuts (6), and existing screw (3), two lockwashers (4), and nut (9).

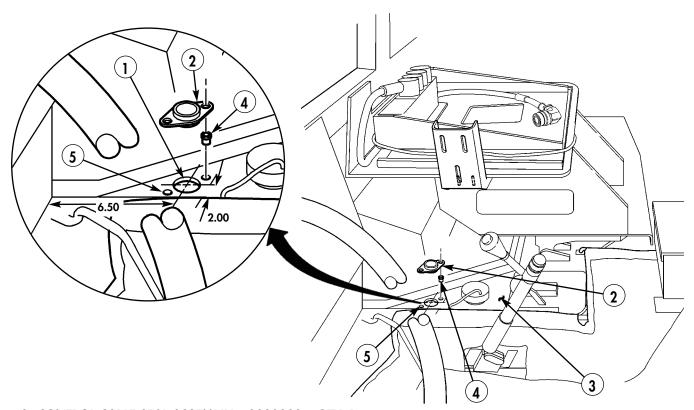


- 1. PTM CONTROL MOUNTING BRACKET 3236630-1 QTY. 1
- 6. LOCKNUT M45913/4-4CG8Z QTY. 2
- 7. WASHER 2436161- QTY. 4
- 10. CAPSCREW B1821BH025C100N QTY. 2

Figure 5-95.

Section XXX. PAN AND TILT MODULE (PTM) CONTROL ASSEMBLY, CONTROL CABLE ASSEMBLY, AND DCM/PTM INTERCONNECT CABLE INSTALLATION

- **30-1.** Locate, mark, and drill 1.375-in. hole (1) for control cable seal assembly (2) on tunnel (3).
- **30-2.** Position control cable seal assembly (2) and mark two hole locations (5).
- **30-3.** Drill two 0.391-in. holes in marked locations (5).
- **30-4.** Insert two rivet nuts (4) in tunnel (3).



- 2. CONTROL CABLE SEAL ASSEMBLY 3220908 QTY. 1
- 4. RIVET NUT 3221004-14 QTY. 2

Figure 5-96.

- **30-5.** Insert DCM connector end of DCM/PTM interconnect cable (6) from transmission compartment through hole (1) in tunnel (3), through control cable seal assembly (2) and into driver's compartment.
- **30-6.** For vehicles equipped with FBCB2, route PTM control cable assembly (8) through PTM control mounting bracket (7).

NOTE

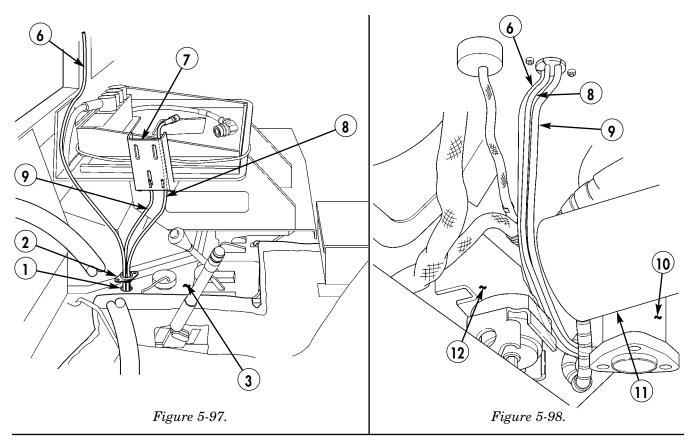
It may be necessary to remove azimuth lock cable adjusting nut to route cabling.

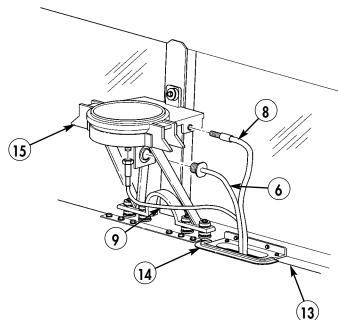
30-7. Insert two cables (8) and (9) though control cable seal assembly (2) through control cable seal assembly (2).

NOTE

Holes in grommet must be enlarged to allow cables to fit.

- **30-8.** Cut sides of four holes on grommet of control cable seal assembly (2).
- **30-9.** Insert three cables (6), (8), and (9) through control cable seal assembly (2) into tunnel hole (1).
- **30-10.** Route three cables (6), (8), and (9) along exhaust pipe (10), body mount (12), and oil filter (11). Continue routing cables (6), (8), and (9) through engine compartment to A-frame cable guide (14) on A-frame pillar flange (13) to PTM mount assembly (15).





- 6. DCM/PTM INTERCONNECT CABLE 3220915-1 QTY. 1
- 8. PTM CONTROL CABLE ASSEMBLY 3220905-1 QTY. 1
- 9. AZIMUTH LOCK CABLE 3221015-1 QTY. 1

Figure 5-99.

CAUTION

Do not overtighten DCM/PTM interconnect cable. The DCM/PTM interconnect cable is made of plastic and will break when overtightened.

30-11. Secure PTM connector end (17) of DCM/PTM interconnect cable (6) to PTM mount assembly (15) with nut (18).

NOTE

Apply anti-seize compound as required.

30-12. Mount PTM control assembly (31) on PTM control mount bracket assembly (36) with three screws (35), six washers (32), and three nuts (33). Ensure PTM control assembly handle (30) has sufficient room to clear steering wheel and integrated radio rack (34).

NOTE

Installation of PTM azimuth control cable may take several attempts before all adjustments are correct.

30-13. Remove bolt (27) and washer (26) from PTM mount assembly (15) and azimuth sector gear assembly (25).

NOTE

To determine which cable is the azimuth control cable, move PTM control handle left, right, fore, and aft to see which cable moves.

- **30-14.** Insert azimuth control cable (8) into side of PTM mount assembly (15).
- 30-15. Install azimuth control cable rubber boot (19) on azimuth control cable (8).
- **30-16.** Install azimuth control cable (8) into clevis (21) of azimuth sector gear (25) until approximately one thread of shaft (16) is exposed through clevis (21). This is the starting position for aligning azimuth sector gear assembly (25).
- **30-17.** Tighten azimuth control cable locking nut (20).
- **30-18.** Position azimuth sector gear assembly (25) on PTM mount assembly (15).
- **30-19.** Insert azimuth control cable (8) in PTM mount assembly cable lock (37).

NOTE

PTM control assembly must be in the center position.

- **30-20.** Ensure that azimuth locking pin hole (22) in azimuth sector gear assembly (25) is aligned with azimuth lock cable (9) in PTM mount assembly (15). If aligned, proceed to next step. If not aligned, repeat steps 30-15 through 30-19, adjusting the azimuth sector gear assembly (25) position on the azimuth control cable (8) until alignment is achieved.
- **30-21.** Secure azimuth sector gear assembly (25) to PTM mount assembly (15) with bolt (27) and washer (26).
- 30-22. Insert azimuth lock cable (9) in PTM mount assembly (15) through hole (29).
- **30-23.** Install azimuth lock cable rubber boot (23) on azimuth lock cable (9).
- **30-24.** Adjust top and bottom locking/adjuster nuts (24) until locking pin (28) clears azimuth sector gear assembly (25) by 1/16 in. when PTM control azimuth locking trigger is pulled.
- **30-25.** Ensure azimuth control cable (8), azimuth lock cable (9), and rubber boots (19) and (23) are installed correctly.

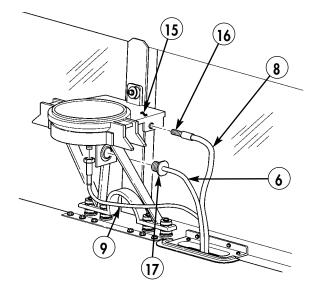


Figure 5-100.

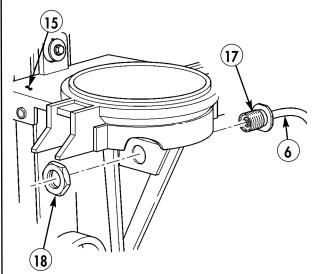
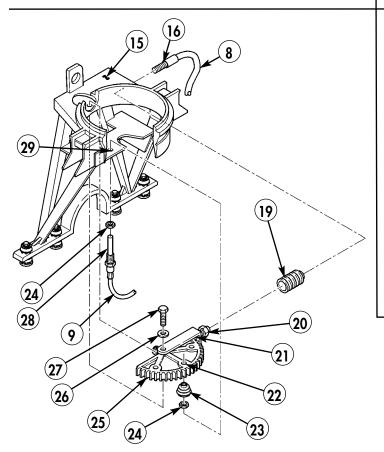


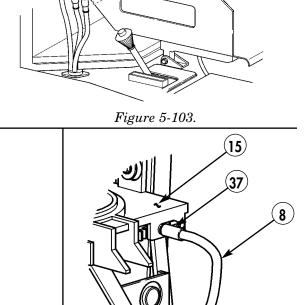
Figure 5-101.

(32)

(33)



- 33. NUT M45913/3-5CG8Z QTY. 3
- 34. WASHER MS27183-12 QTY. 6
- 35. SCREW QTY. 3

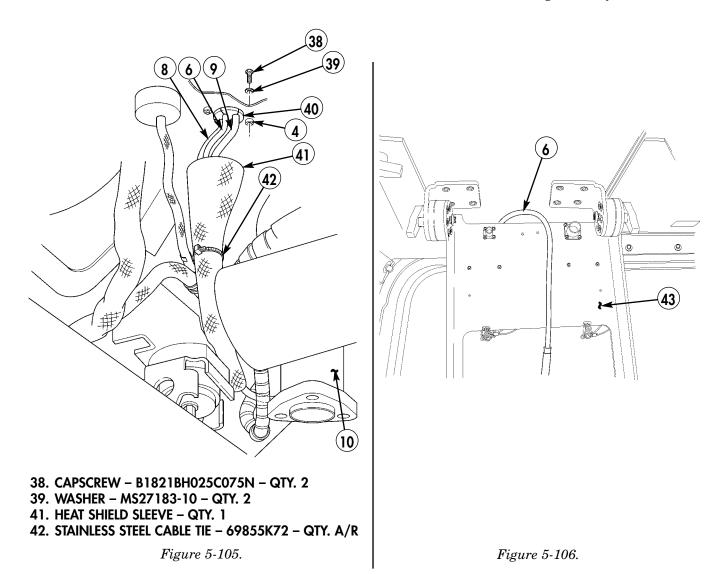


(36)

(32)

Figure 5-104.

- **30-26.** Install control cable seal assembly rubber grommet (40) on PTM control cables (8) and (9) and DCM/PTM interconnect cable (6). Secure control cable seal assembly rubber grommet (40) on tunnel rivet nuts (4) with two capscrews (38) and washers (39).
- **30-27.** Cover DVE/PTM cables (6), (8), and (9) that run along vehicle exhaust pipe (10) with heat shield sleeve (41). Secure heat shield sleeve (41) and PTM control cables (6), (8), and (9) with cable ties (42).
- **30-28.** Route DCM/PTM interconnect cable (6) behind radio rack to DCM mounting assembly (43).



Section XXXI. LCD PROTECTIVE ASSEMBLY INSTALLATION

NOTE

Installation of the LCD protective assembly is optional. Perform the following operations only if desired.

31-1. Install LCD protective assembly on DCM.

NOTE

LCD protective assembly is stored in stowage pouch 3256879-1.

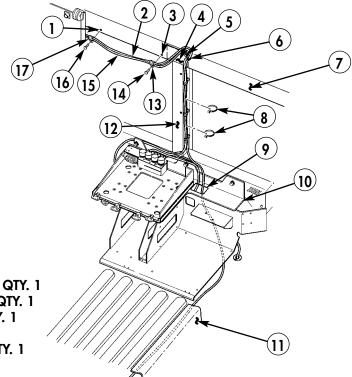
31-2. Place stowage pouch in rear seat storage.

Section XXXII. DVE POWER CABLE INSTALLATION

NOTE

Previously routed cables have been removed for clarity.

- **32-1.** Route DVE power cable (2) from DCM mount (1) to center of windshield center support (12), through access cutout (9) in integrated radio rack (10), and under tunnel insulation (11) to rear of battery box.
- **32-2.** Attach shrink tubing (19) and two terminal lugs (18) and (22) to DVE power cable negative lead (21) and DVE power cable positive lead (20). (Refer to TM 9-2320-280-20 for terminal connector repair.)
- **32-3.** Attach DVE power cable positive lead (20) to 24V terminal board (24) with existing nut (17).
- **32-4.** Attach DVE power cable negative lead (21) to ground strap (23) with existing nut (25).
- **32-5.** Secure all leads together with tiedown strap (8).
- **32-6.** Remove two existing screws, lockwasher, and washers from DCM mount (1) and windshield frame (7).
- **32-7.** Secure two cables (2) and (15) to windshield frame (7) with clamp (16) and screw (14).
- **32-8.** Secure DCM mount (1) to windshield frame (7) with existing washers, lockwashers, and nuts.
- **32-9.** If required, locate, mark, and drill 0.147-in. diameter hole (3) in windshield frame (7).
- **32-10.** Secure two cables (2) and (15) to windshield frame (7) with clamp (13) and screw (14).
- 32-11. Remove screw (5) and clamp (6) from windshield wiper bracket (4).
- **32-12.** Secure two cables (2) and (15) to windshield wiper bracket (4) with clamp (6) and existing screw (5).
- **32-13.** Secure two cables (2) and (15) to existing cables with tiedown straps (8).
- 32-14. Install right-side tunnel insulation. (Refer to TM 9-2320-280-20.)
- **32-15.** Install batteries. (Refer to TM 9-2320-280-20.)



- 2. DVE POWER CABLE 3256881-1 QTY. 1
- 8. TIEDOWN STRAP MS3367-1-0 QTY. 1
- 13. LOOP CLAMP MS21333-76 QTY. 1
- 14. SCREW 9421073 QTY. 2
- 16. LOOP CLAMP MS21333-104 QTY. 1

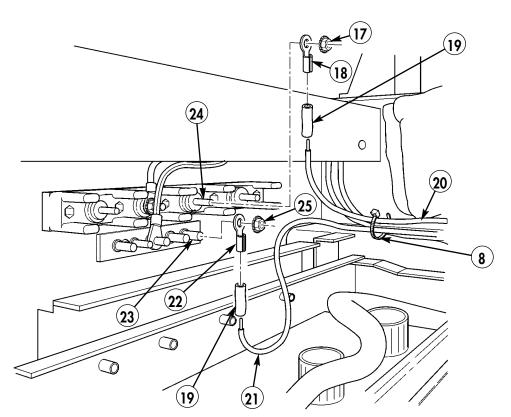


Figure 5-107.

- 19. TERMINAL LUG MS25036-150 QTY. 1
- 20. SHRINK TUBING MS23053/4-302-0 QTY. A/R
- 24. TERMINAL LUG MS25036-108 QTY.1

Figure 5-108.

By Order of the Secretary of the Army:

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

Official:

SANDRAR. RILEY

Administrative Assistant to the Secretary of the Army 0520909

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