

**TECHNICAL MANUAL
MAINTENANCE INSTRUCTIONS
UNIT MAINTENANCE
M1078 SERIES, 2 1/2-TON, 4 X 4,
LIGHT MEDIUM TACTICAL VEHICLES (LMTV)
VOLUME NO. 5 OF 5**

MODEL	NSN	EIC	HOW TO USE THIS MANUAL PAGE iii
TRK, CAR., LMTV, M1078 W/WN W/O WN	2320-01-360-1898 2320-01-354-3385	BHH BHD	SPECIAL PURPOSE KITS MAINTENANCE PAGE 20-1
TRK, VAN, LMTV, M1079 W/WN W/O WN	2320-01-360-1891 2320-01-354-3384	BHG BHE	ARMAMENT/SIGHTING AND FIRE CONTROL MATERIEL MAINTENANCE PAGE 21-1
TRK, CHAS, LMTV, M1080	2320-01-353-9098	BHC	ELECTRICAL ILLUMINATING EQUIPMENT MAINTENANCE PAGE 22-1
TRK, CAR., LMTV, AIR DROP, M1081 W/WN W/O WN	2320-01-360-1899 2320-01-355-3064	BHJ BHF	AIR SYSTEM MAINTENANCE PAGE 23-1
			GAGES (NON-ELECTRICAL) MAINTENANCE PAGE 24-1

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HEADQUARTERS, DEPARTMENTS OF THE ARMY AND THE AIR FORCE

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Unit Maintenance Manual
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W/WN	2320-01-360-1899	BHJ
W/O WN	2320-01-355-3064	BHF

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HOW TO USE THIS MANUAL

OVERVIEW

This technical manual (TM) is provided to help you maintain the LMTV at the Unit Maintenance level. Because of its size, it is divided into five volumes. Volume 5 contains the following major sections in order of appearance:

- **WARNING SUMMARY.** Provides a summary of the most important warnings that apply throughout the manual.
- **CHAPTER 20, SPECIAL PURPOSE KITS MAINTENANCE**
- **CHAPTER 21, ARMAMENT/SIGHTING AND FIRE CONTROL MATERIEL MAINTENANCE**
- **CHAPTER 22, ELECTRICAL ILLUMINATING EQUIPMENT MAINTENANCE**
- **CHAPTER 23, AIR SYSTEM MAINTENANCE**
- **CHAPTER 24, GAGES (NON-ELECTRICAL) MAINTENANCE**
- **APPENDIX A, REFERENCES.** Lists publications used with the LMTV.

OVERVIEW (CONT)

- **APPENDIX B, MAINTENANCE ALLOCATION CHART.** The maintenance allocation chart denotes the level of maintenance which performs specific maintenance tasks and the time required. It also lists tools and special tools required for each task.
- **APPENDIX C, TOOLS IDENTIFICATION LIST.** Lists equipment used in the performance of maintenance and references publications which contain information regarding the equipment.
- **APPENDIX D, EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST.** Lists expendable and durable items used in the performance of maintenance.
- **APPENDIX E, ILLUSTRATED LIST OF MANUFACTURED ITEMS.** Illustrates and describes items that must be fabricated from bulk materials for repair of the LMTV.
- **APPENDIX F, TORQUE LIMITS.** Lists the standard torque values for specific attaching hardware.
- **APPENDIX G, MANDATORY REPLACEMENT PARTS.**
- **APPENDIX H, LUBRICATION ORDER.**
- **APPENDIX J, ADDITIONAL AUTHORIZATION LIST (AAL).**
- **APPENDIX K, TRANSMISSION/TRANSMISSION CONTROLS ADAPTABILITY CHART.**
- **SUBJECT INDEX.** Lists important subjects contained in volume 5 in alphabetical order and gives the associated paragraph number.

FINDING INFORMATION

There are several ways to find the information you need in this manual. They are as follows:

- **FRONT COVER INDEX.** The front cover index contains a list of the most important topics contained in each volume. It features a black box at the right edge of the cover which corresponds with a black box on the page containing the topic. The topics listed on the front cover are highlighted in the table of contents with a box.
- **TABLE OF CONTENTS.** Lists chapters, sections, appendixes, and indexes with page numbers in order of appearance.
- **CHAPTER INDEXES.** List paragraphs contained in the individual chapters with paragraph and page numbers in order of appearance.
- **SYMPTOM INDEX.** Lists malfunctions contained in the troubleshooting table with page numbers in order of appearance.

TROUBLESHOOTING

Troubleshooting is contained in chapter 2. When a malfunction occurs, look at the symptom index for the vehicle troubleshooting table in chapter 2. Find the malfunction in the index. Turn to the page number listed for the malfunction in the troubleshooting table. Perform the steps required to correct the malfunction. If you can't find the malfunction, or the malfunction is not corrected, notify your supervisor.

- **SCHEDULED MAINTENANCE.** Your scheduled maintenance is located in Volume 1, table 2-1, PMCS. These checks and services are mandatory at the intervals listed. Always follow the **WARNINGS** and **CAUTIONS**.
- **UNSCHEDULED MAINTENANCE.** Unscheduled maintenance is located in chapters 3 through 24. The PMCS and troubleshooting tables often reference you to these procedures. When you perform maintenance, look over the entire procedure before starting. Make sure you have the necessary tools and materials at hand. Always follow the **WARNINGS** and **CAUTIONS**.

FOLLOW THESE GUIDELINES WHEN USING THIS MANUAL:

- Become familiar with the entire maintenance procedure before beginning a maintenance task.
- Read all **WARNINGS** and **CAUTIONS** before performing any procedures.

CHAPTER 20

SPECIAL PURPOSE KITS MAINTENANCE

RESTRICTED MAINTENANCE NOTICE

Units not authorized SC 4910-95-CL-A72 (SHOP EQUIPMENT, COMMON NO. 2) in their T.O.E. may be unable to perform some of the maintenance tasks described in this chapter. If the required tools are not authorized, the equipment must be submitted to DS Maintenance for repair.

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Section I. INTRODUCTION

20-1. INTRODUCTION

This chapter contains maintenance instructions for replacing, repairing, and installing special purpose kit components authorized by the Maintenance Allocation Chart (MAC) at the Unit Maintenance level.

Section II. MAINTENANCE PROCEDURES

20-2. DELETED

20-41. M1079 HEATER KIT INSTALLATION/REMOVAL**This task covers:**

- a. Installation
- b. Removal
- c. Follow-On Maintenance

INITIAL SETUP**Equipment Conditions**

Engine shut down (TM 9-2320-365-10).
 Spare tire lowered (TM 9-2320-365-10).
 Cab raised (TM 9-2320-365-10).
 AC power disconnected (TM 9-2320-365-10).
 LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)

Materials/Parts

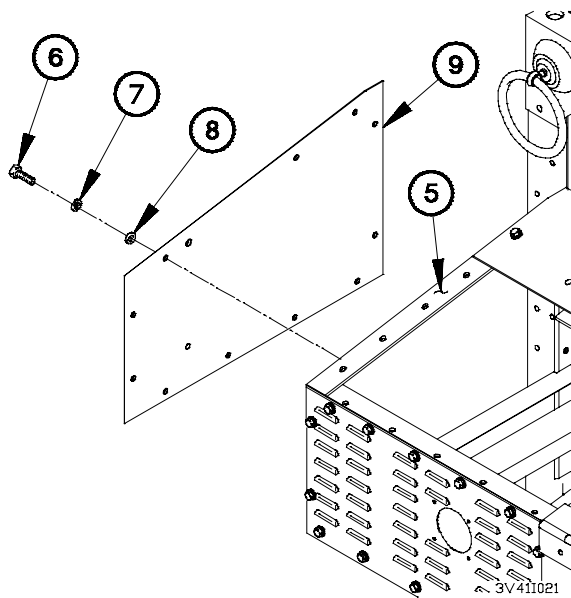
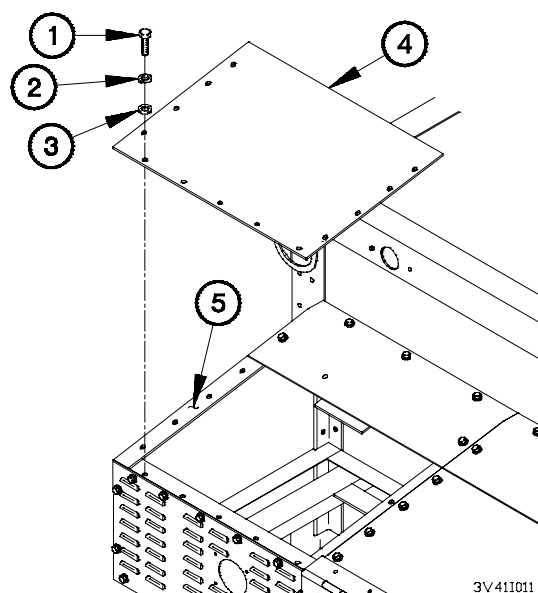
Lockwasher (44) (Item 82, Appendix G)
 Lockwasher (18) (Item 84, Appendix G)
 Lockwasher (12) (Item 76, Appendix G)
 Sealant, Pipe, Teflon (Item 58, Appendix D)

Personnel Required

(2)

a. Installation.

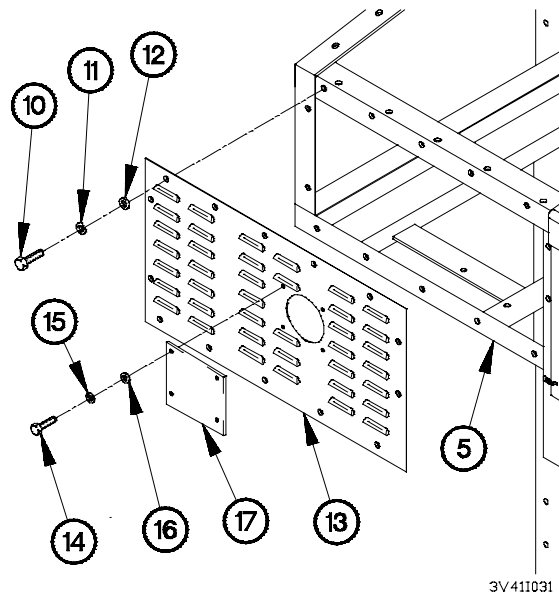
- (1) Remove 13 screws (1), lockwashers (2), washers (3), and curbside top front panel (4) from pod frame (5). Discard lockwashers.



- (2) Remove 13 screws (6), lockwashers (7), washers (8), and curbside panel (9) from pod frame (5). Discard lockwashers.

20-41. M1079 HEATER KIT INSTALLATION/REMOVAL (CONT)

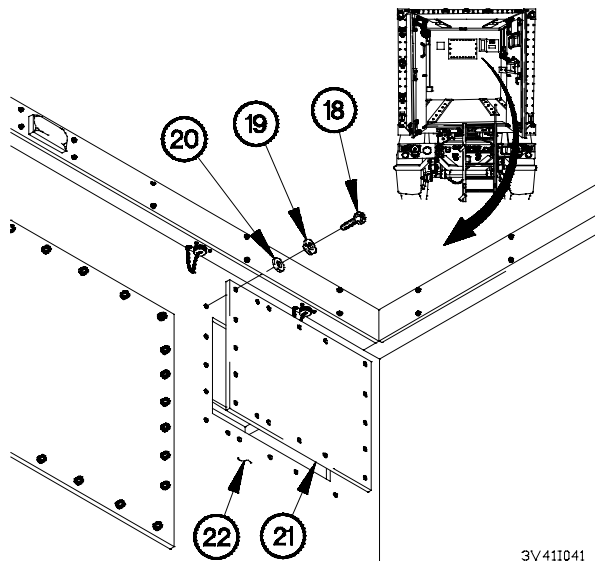
- (3) Remove 14 screws (10), lockwashers (11), washers (12), and curbside front panel (13) from pod frame (5). Discard lockwashers.
- (4) Remove four screws (14), lockwashers (15), washers (16), and cover plate (17) from curbside front panel (13). Discard lockwashers.
- (5) Retain cover plate (17) for future use.



3V411031

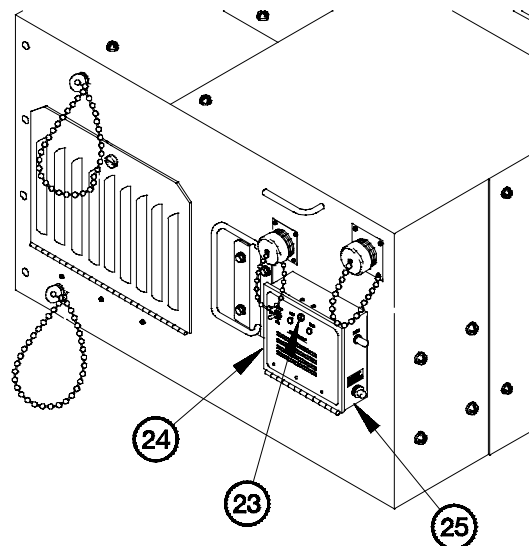
- (6) Remove 18 screws (18), lockwashers (19), washers (20), and cover (21) from inside front van body wall (22). Discard lockwashers.

- (7) Retain cover (21) for future use.



3V411041

- (8) Unlatch screw (23) on door (24).
- (9) Open door (24) on heater control unit (25).



3V411051

(10) Unlatch two screws (26) on heater control unit (25).

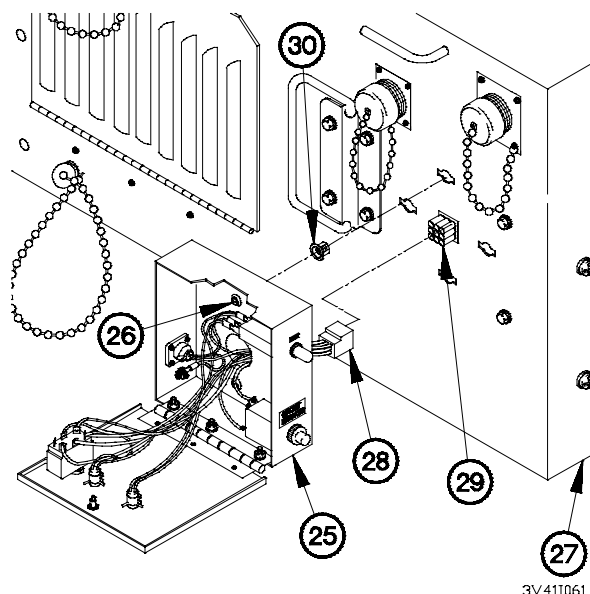
(11) Remove heater control unit (25) from heater (27).

NOTE

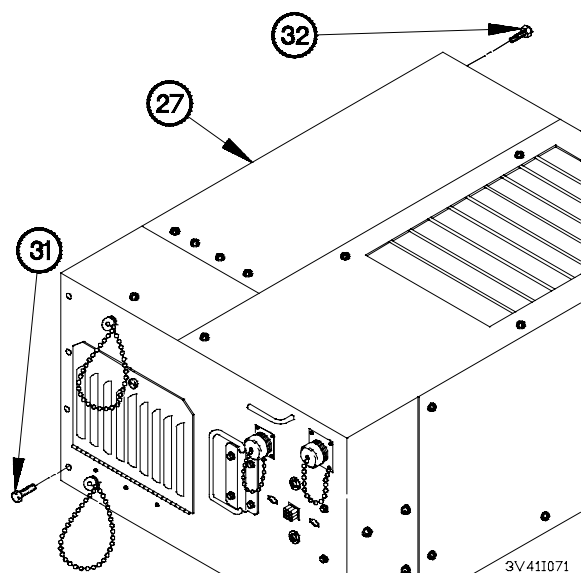
Tag connectors and connection points prior to removal.

(12) Disconnect connector P4 (28) from connector J4 (29).

(13) Remove two twist locks (30) from heater (27).



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3V411071

WARNING

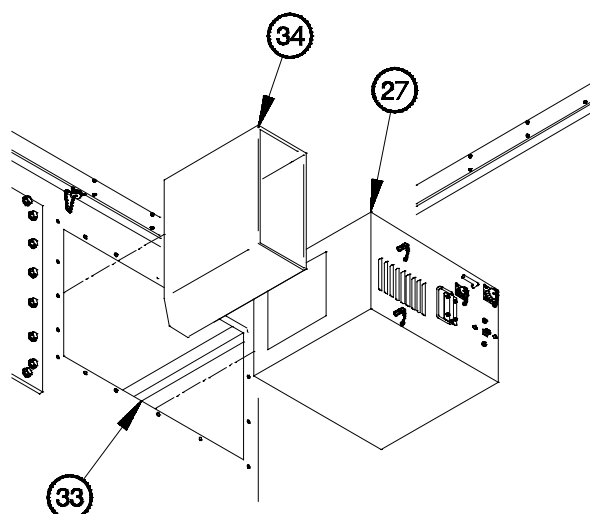
Heater weighs approximately 120 lbs (54 kgs). Use the aid of an assistant when lifting. Failure to comply may result in injury to personnel.

NOTE

Steps (17) through (22) requires the aid of an assistant.

(17) Position heater (27) on pod panel (33).

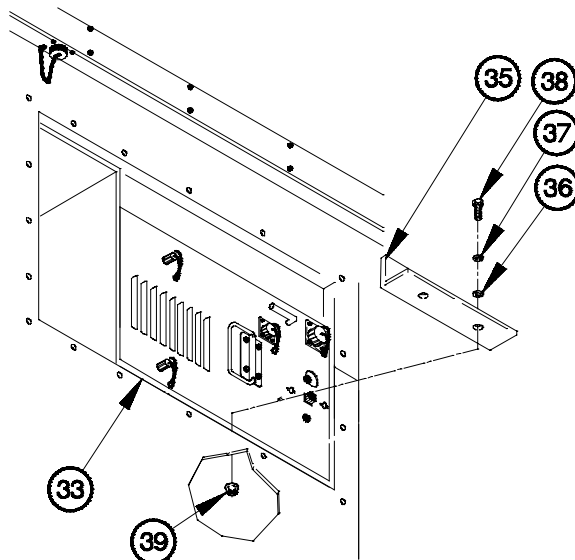
(18) Position heater duct (34) on pod panel (33).



3V411081

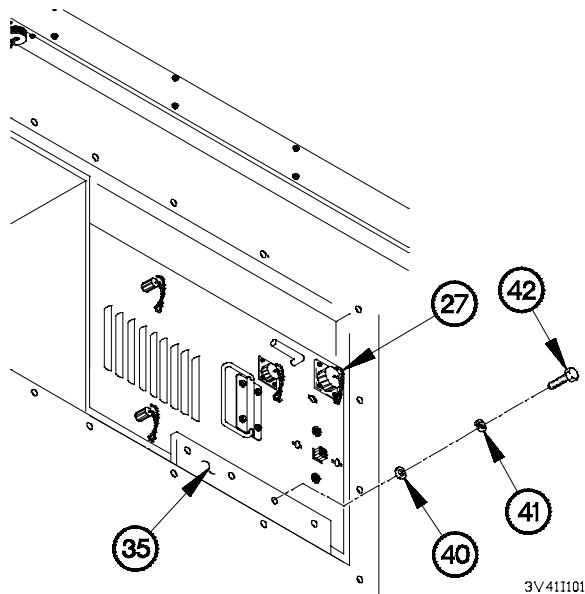
20-41. M1079 HEATER KIT INSTALLATION/REMOVAL (CONT)

- (19) Position bracket (35) on pod panel (33) with two washers (36), lockwashers (37), screws (38), and self-locking nuts (39).



3V411091

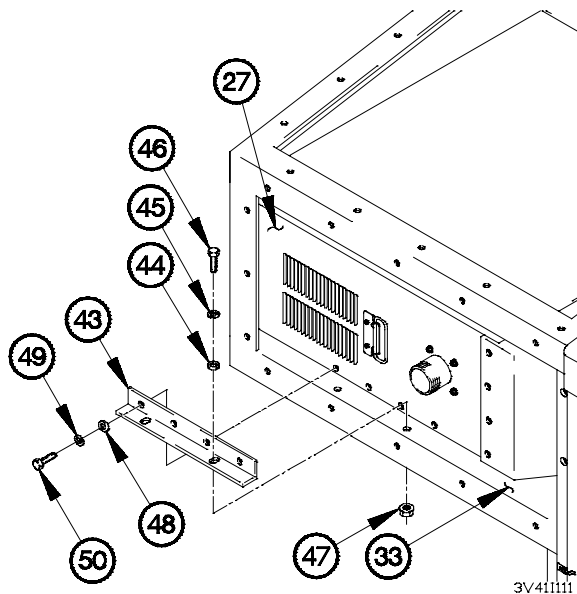
- (20) Install bracket (35) on heater (27) with three washers (40), lockwashers (41) and screws (42).



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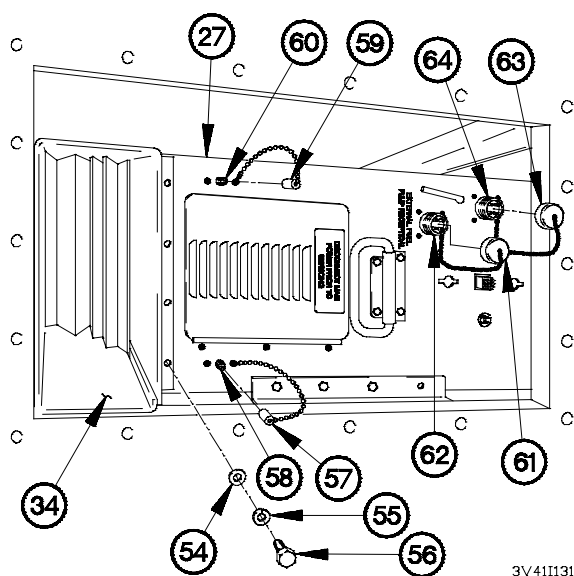
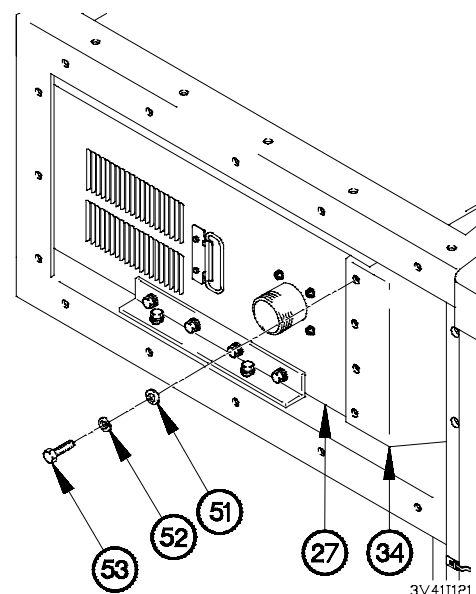
- (21) Position bracket (43) on pod panel (33) with two washers (44), lockwashers (45), screws (46), and self-locking nuts (47).

- (22) Install bracket (43) on heater (27) with four washers (48), lockwashers (49) and screws (50).



3V411111

- (23) Install heater duct (34) on heater (27) with four washers (51), lockwasher (52), and screws (53).



- (24) Install heater duct (34) on heater (27) with four washers (54), lockwashers (55), and screws (56).

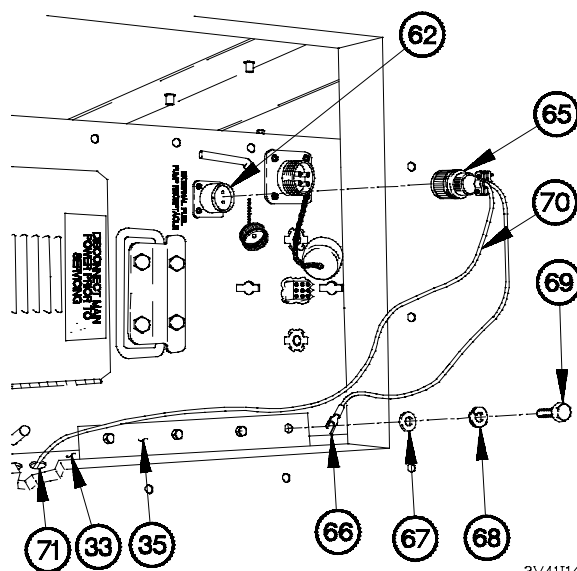
- (25) Remove dust cap (57) from fuel overflow port (58).

- (26) Remove dust cap (59) from fuel inlet port (60).

- (27) Remove dust cap (61) from heater fuel pump power cable connector (62).

- (28) Remove dust cap (63) from heater power connector (64).

- (29) Connect connector J314 (65) to heater fuel pump power cable connector (62).
- (30) Install terminal lug TL91 (66) on bracket (35) with washer (67), lockwasher (68), and screw (69).
- (31) Route heater fuel pump power cable (70) through hole (71) in pod panel (33).



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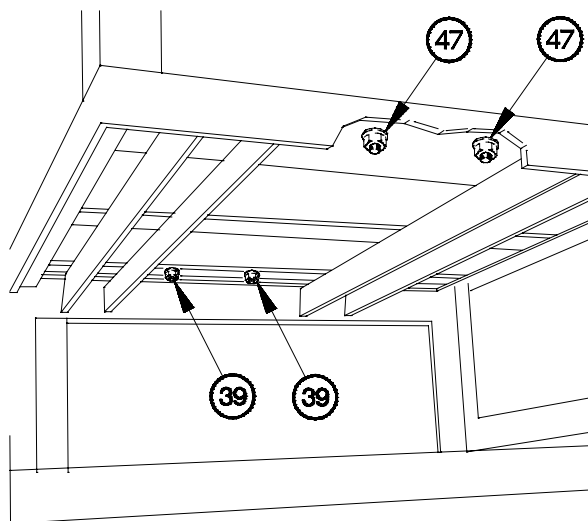
20-41. M1079 HEATER KIT INSTALLATION/REMOVAL (CONT)

NOTE

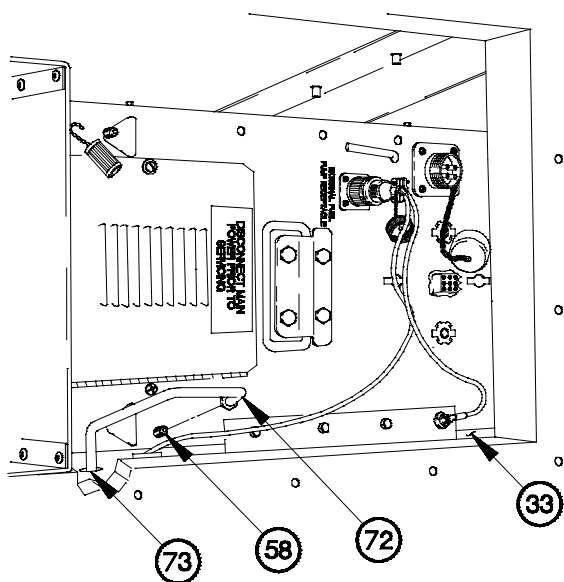
Steps (32) and (33) require the aid of an assistant.

(32) Tighten two self-locking nuts (39).

(33) Tighten two self-locking nuts (47).



3V411151



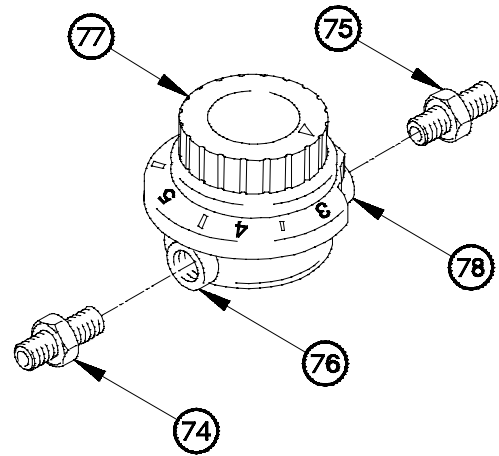
3V411161

(34) Route fuel tube (72) through hole (73) in pod panel (33).

(35) Install fuel tube (72) on fuel overflow port (58).

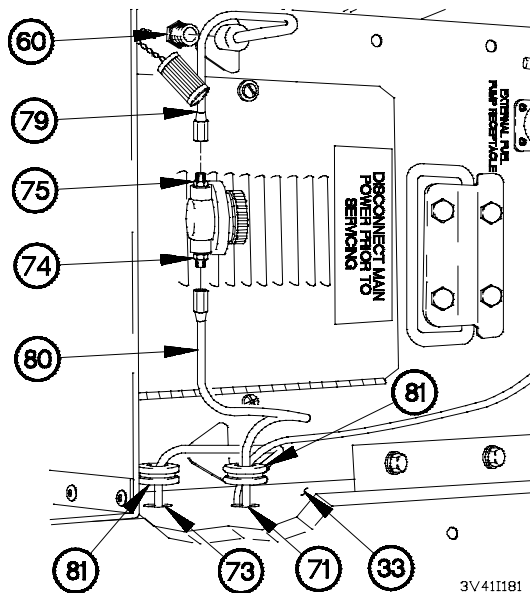
WARNING

Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure to comply may result in injury to personnel.



3V411171

- (36) Apply sealing compound to threads of fittings (74 and 75).
- (37) Install fitting (74) in inlet port (76) of fuel regulator (77).
- (38) Install fitting (75) in outlet port (78) of fuel regulator (77).

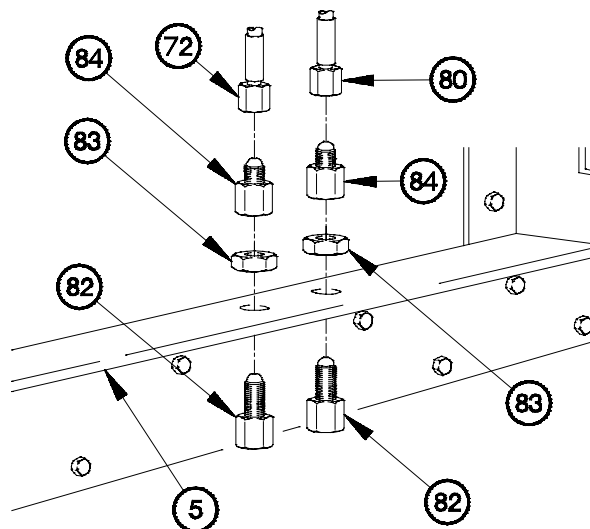


3V411181

- (39) Install fuel tube (79) on fuel inlet port (60).
- (40) Route fuel tube (80) through hole (71) in pod panel (33).
- (41) Install fuel tubes (79 and 80) on fittings (74 and 75).
- (42) Install two grommets (81) in holes (71 and 73) on pod panel (33).

20-41. M1079 HEATER KIT INSTALLATION/REMOVAL (CONT)

- (43) Install two fittings (82) on pod frame (5) with two nuts (83).
- (44) Install two adapters (84) on fittings (82).
- (45) Install fuel tubes (72 and 80) on two adapters (84).

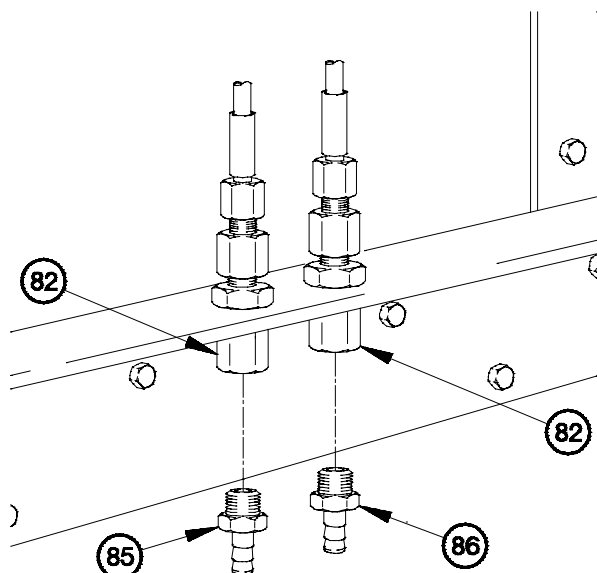


3V41I191

WARNING

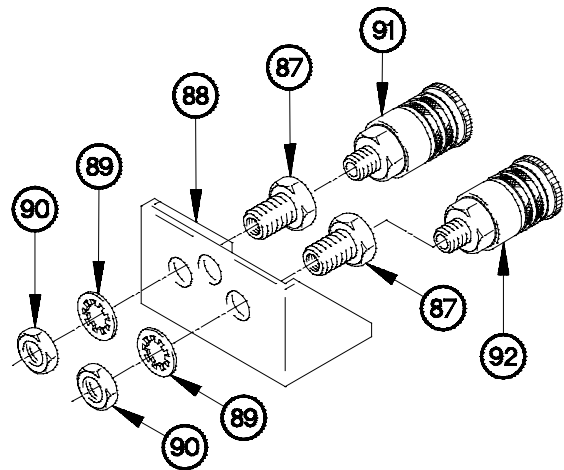
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure to comply may result in injury to personnel.

- (46) Apply sealing compound to threads of fittings (85 and 86).
- (47) Install fittings (85 and 86) on two fittings (82).



3V41I201

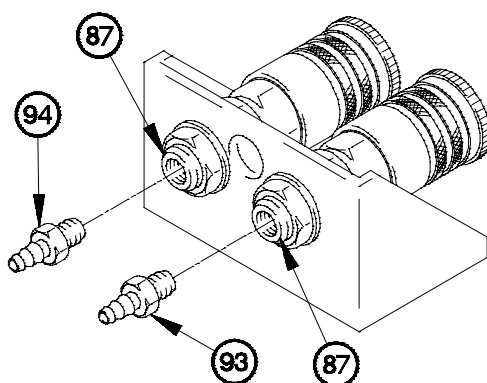
- (48) Install two bushings (87) on bracket (88) with two lockwashers (89) and nuts (90).
- (49) Install quick connect fittings (91 and 92) on two bushings (87).



3V41I211

WARNING

Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure to comply may result in injury to personnel.

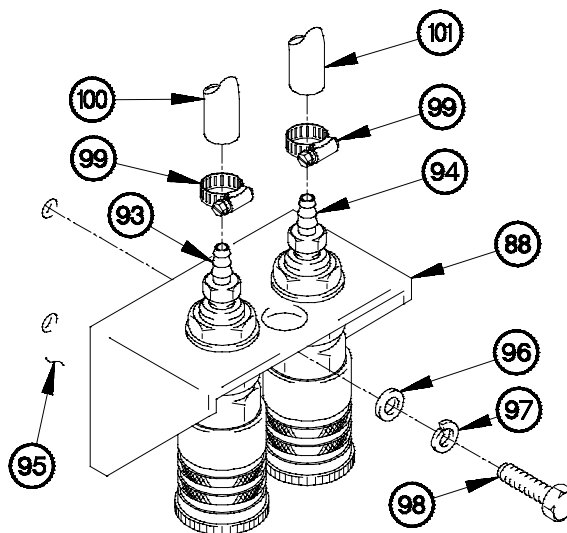


3V41I221

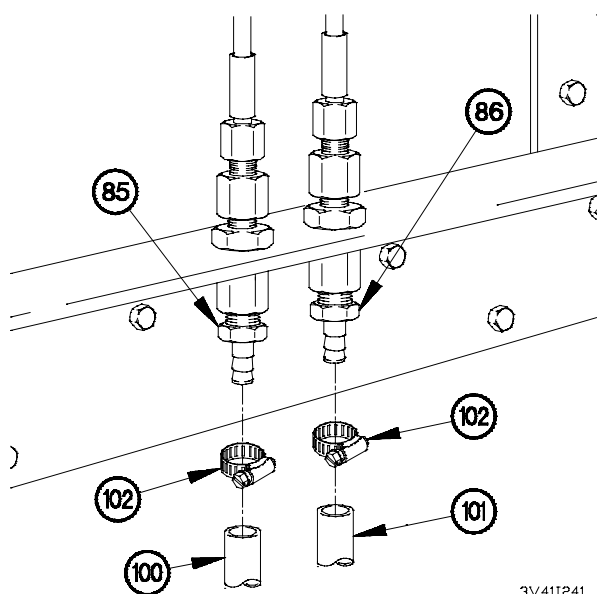
- (50) Apply sealing compound to threads of fittings (93 and 94).
- (51) Install fitting (93 and 94) in two bushings (87).

20-41. M1079 HEATER KIT INSTALLATION/REMOVAL (CONT)

- (52) Install bracket (88) on outside front van body wall (95) with two washers (96), lockwashers (97), and screws (98).
- (53) Position two clamps (99) on hoses (100 and 101).
- (54) Install hoses (100 and 101) on fitting (93 and 94) with two clamps (99).



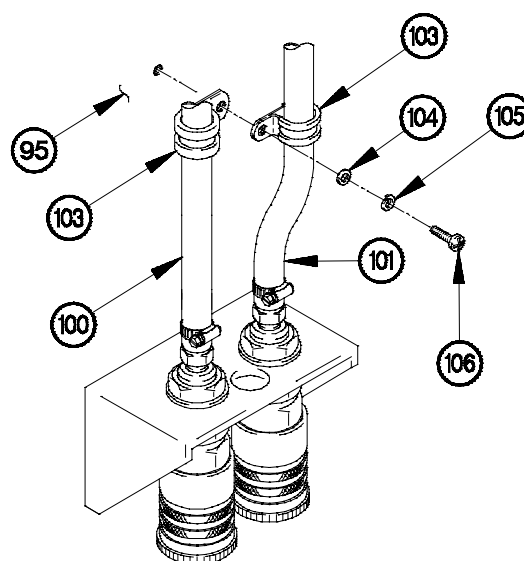
3V411231



3V411241

- (55) Position two clamps (102) on hoses (100 and 101).
- (56) Install two hoses (100 and 101) on fittings (85 and 86) with two clamps (102).

- (57) Position six clamps (103) on hoses (100 and 101).
- (58) Install six clamps (103) on outside front van body wall (95) with three washers (104), lockwashers (105), and screws (106).



3V411251