

**TECHNICAL MANUAL
MAINTENANCE INSTRUCTIONS
UNIT MAINTENANCE
M1078 SERIES, 2 1/2-TON, 4 X 4,
LIGHT MEDIUM TACTICAL VEHICLES (LMTV)
VOLUME NO. 4 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	BODY AND CAB MAINTENANCE PAGE 16-1
TRK, VAN, LMTV, M1079 W/WN W/O WN	2320-01-360-1891 2320-01-354-3384	BHG BHE	11K SELF-RECOVERY WINCH MAINTENANCE PAGE 17-1
TRK, CHAS, LMTV, M1080	2320-01-353-9098	BHC	
TRK, CAR., LMTV, AIR DROP, M1081 W/WN W/O WN	2320-01-360-1899 2320-01-355-3064	BHJ BHF	BODY, CHASSIS, AND ACCESSORY ITEMS MAINTENANCE PAGE 18-1
			HYDRAULIC SYSTEM MAINTENANCE PAGE 19-1

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Unit Maintenance Manual

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TRK, CAR., LMTV, AIR DROP, M1081 W/WN W/O WN	2320-01-360-1899 2320-01-355-3064	BHJ 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 4 contains the following major sections in order of appearance:

OVERVIEW (CONT)

- **WARNING SUMMARY.** Provides a summary of the most important warnings that apply throughout the manual.
- **CHAPTER 16, BODY AND CAB MAINTENANCE**
- **CHAPTER 17, 11K SELF-RECOVERY WINCH MAINTENANCE**
- **CHAPTER 18, BODY, CHASSIS, AND ACCESSORY ITEMS MAINTENANCE**
- **CHAPTER 19, HYDRAULIC SYSTEM MAINTENANCE**
- **APPENDIX A, REFERENCES.** Lists publications used with the LMTV.
- **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 4 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.

TROUBLESHOOTING (CONT)

- **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 22. 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 16

BODY AND CAB 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

16-1. INTRODUCTION

This chapter contains maintenance instructions for replacing, repairing, and adjusting cab and body components authorized by the Maintenance Allocation Chart (MAC) at the Unit Maintenance level.

Section II. MAINTENANCE PROCEDURES

16-2. POWER DISTRIBUTION PANEL (PDP) COVER AND LATCH REPLACEMENT/ ADJUSTMENT

This task covers:

- a. Removal
- b. Installation
- c. Latch Adjustment

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Drill, Portable, Electric (Item 7, Appendix C)

Tools and Special Tools (Cont)

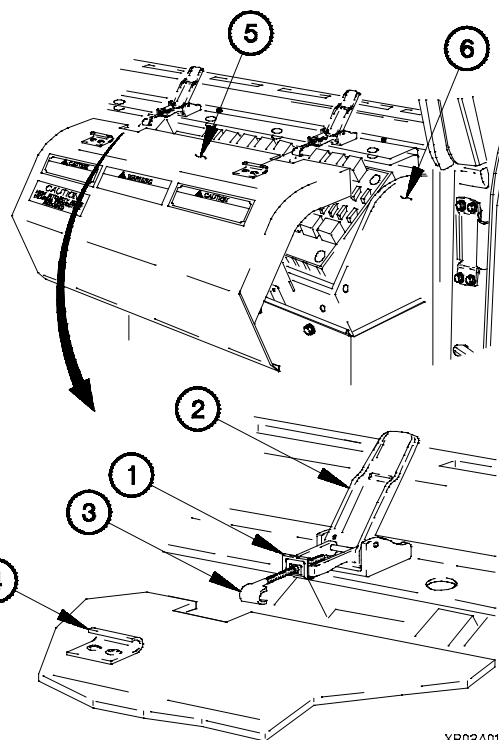
Drill Set, Twist (Item 6, Appendix C)
Tool Kit, Blind Rivet (Item 43, Appendix C)

Material/Parts

Rivet, Blind (4) (Item 221, Appendix G)

a. Removal.

- (1) Pull two spring catches (1) and lift two latch levers (2).
- (2) Release two latch hooks (3) from two strike plates (4).
- (3) Remove PDP cover (5) from dashboard (6).

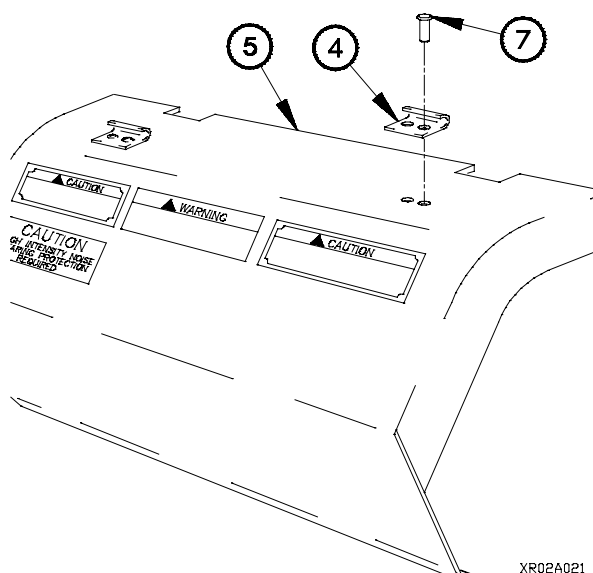


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WARNING

Wear appropriate eye protection when removing rivets. Failure to comply may result in injury to personnel.

- (4) Remove four rivets (7) and two strike plates (4) from PDP cover (5).

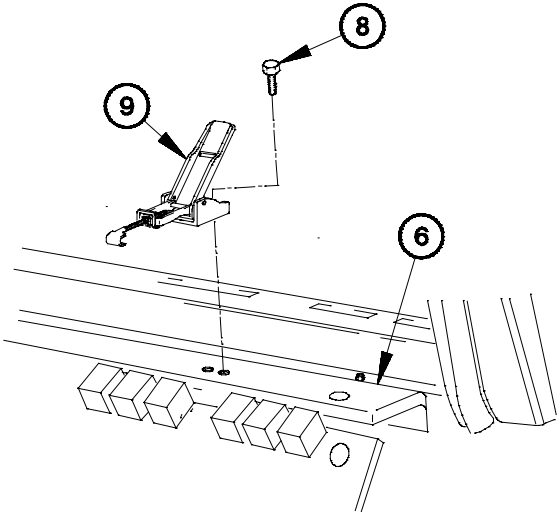


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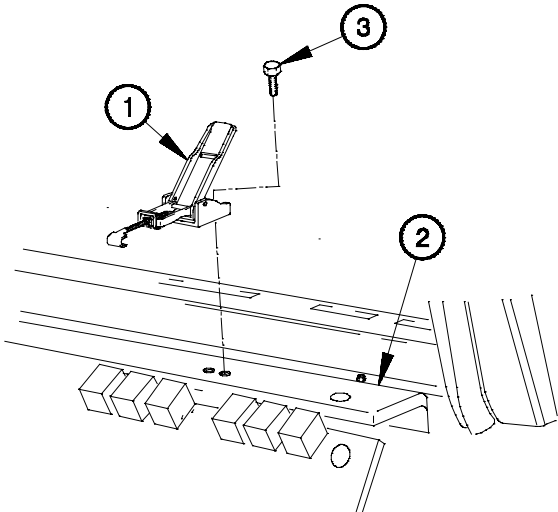
16-2. POWER DISTRIBUTION PANEL (PDP) COVER AND LATCH REPLACEMENT/
ADJUSTMENT (CONT)

(5) Remove four screws (8) and two latches (9) from dashboard (6).

b. Installation.



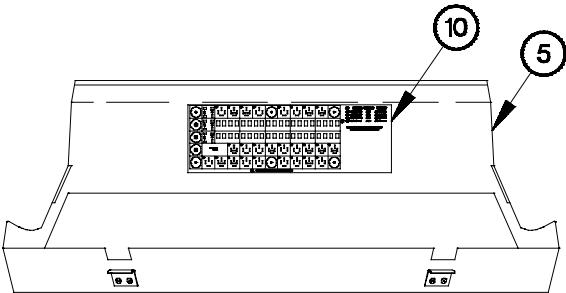
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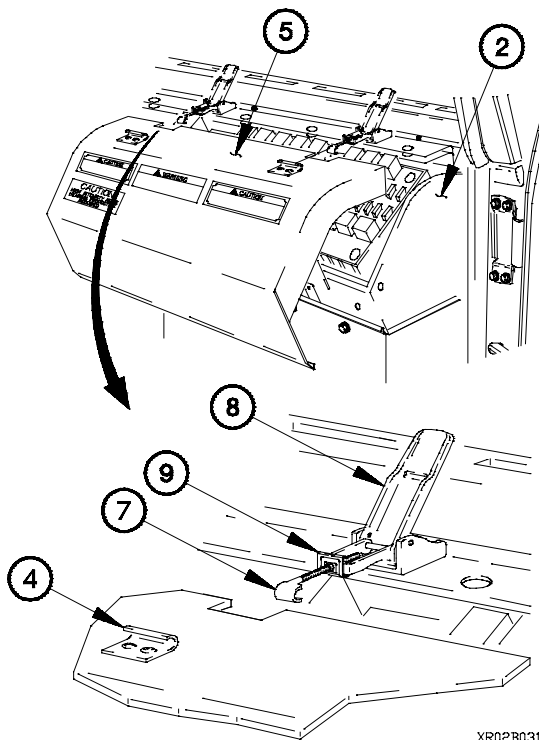
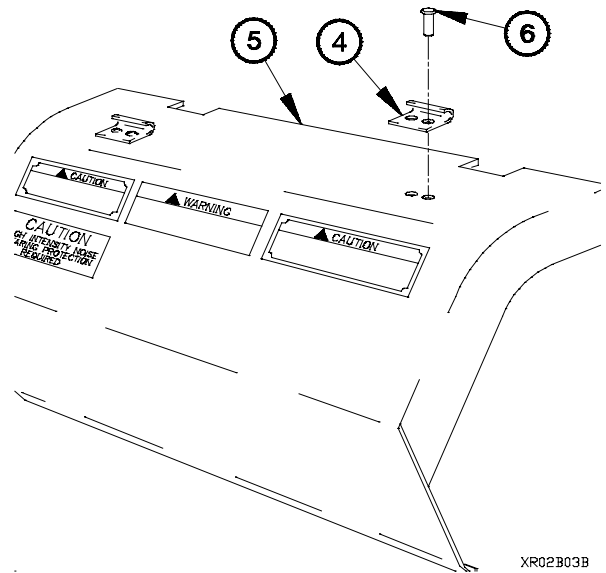
(1) Install two latches (1) on dashboard (2) with four screws (3).

(1.1) Install PDP decal (10) on PDP cover (5).



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- (2) Install two strike plates (4) on PDP cover (5) with four rivets (6).



- (3) Position PDP cover (5) on dashboard (2).
 (4) Fasten two latch hooks (7) on two strike plates (4).

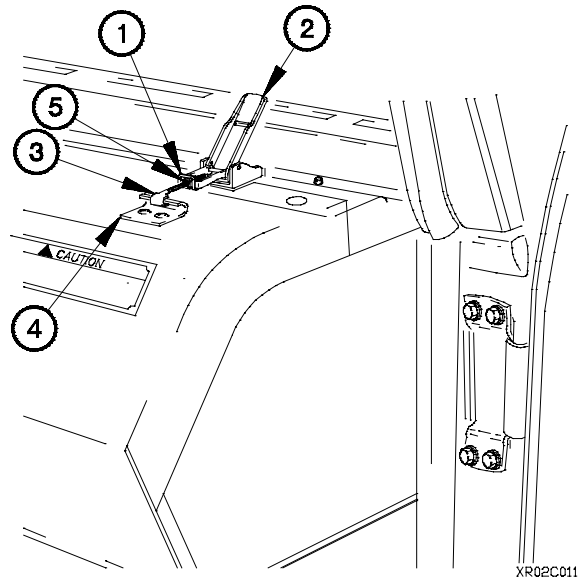
NOTE

PDP cover should be drawn tight against dashboard and some resistance should be felt when closing latches. If PDP cover is loose on dashboard after performing step (5), perform latch adjustment.

- (5) Push down on two latch levers (8) until spring catches (9) are engaged.

16-2. POWER DISTRIBUTION PANEL (PDP) COVER AND LATCH REPLACEMENT/ADJUSTMENT (CONT)**c. Latch Adjustment.**

- (1) Pull spring catch (1) and lift latch lever (2).
- (2) Release latch hook (3) from strike plate (4).
- (3) Loosen jamnut (5) on latch hook (3).
- (4) Turn latch hook (3) to the right to tighten or to the left to loosen.
- (5) Tighten jamnut (5) on latch hook (3).
- (6) Fasten latch hook (3) on strike plate (4).
- (7) Push down on latch lever (2) until spring catch (1) is engaged.

**End of Task.**

16-3. KICK PANEL REPLACEMENT

This task covers:

a. Removal

b. Installation

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10).

Tools and Special Tools

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

Tools and Special Tools (Cont)

Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C)

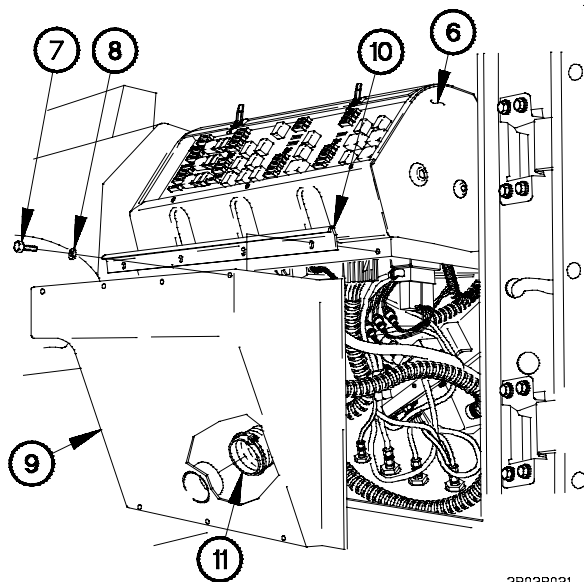
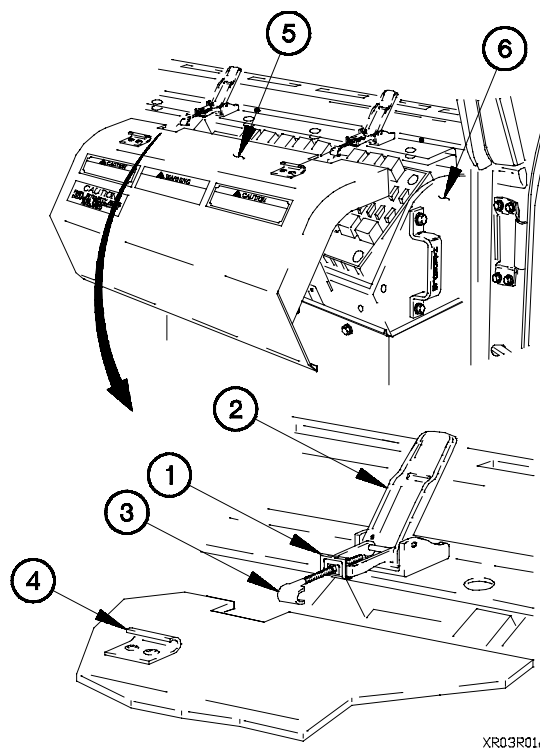
Socket Set, Socket Wrench (Item 35, Appendix C)

Material/Parts

Ties, Cable, Plastic (Item 75, Appendix D)

a. Removal.

- (1) Pull two spring catches (1) and lift two latch levers (2).
- (2) Release two latch hooks (3) from strike plates (4).
- (3) Remove PDP cover (5) from dashboard (6).



- (4) Remove seven screws (7) and washers (8) from kick panel (9).
- (5) Remove kick panel (9) and stiffener (10) from dashboard (6).

NOTE

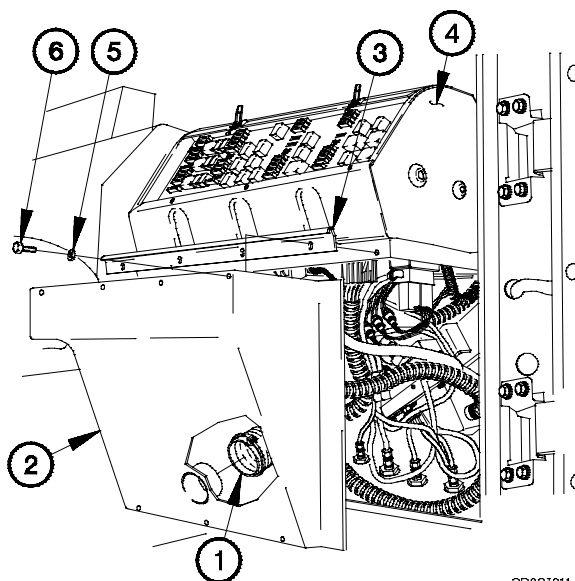
Remove plastic cable ties as required.

- (6) Disconnect air duct hose (11) from kick panel (9).

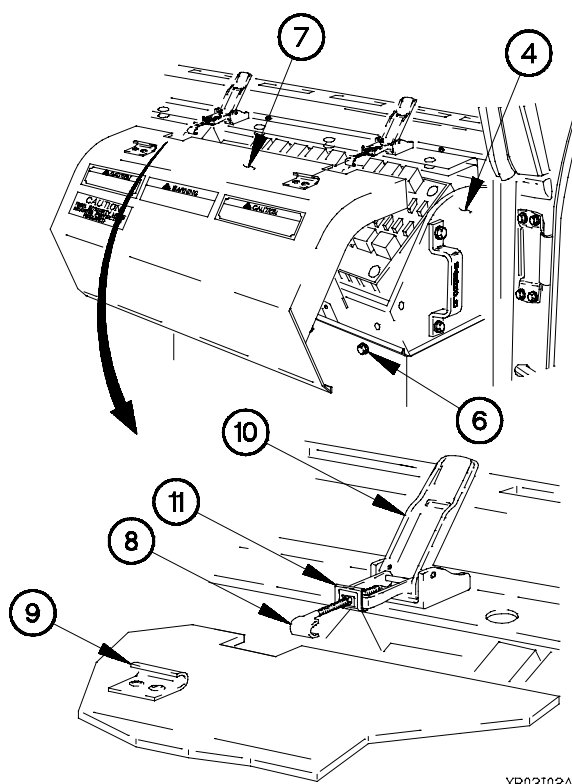
b. Installation.**NOTE**

Install plastic cable ties as required.

- (1) Connect air duct hose (1) to kick panel (2).
- (2) Position stiffener (3) and kick panel (2) on dashboard (4) with seven washers (5) and screws (6).



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- (3) Position PDP cover (7) on dashboard (4).
- (4) Fasten two latch hooks (8) on strike plates (9).
- (5) Push down on two latch levers (10) until spring catches (11) are engaged.
- (6) Tighten seven screws (6) to 71-88 lb-in. (8-10 N·m).

End of Task.

16-4. M1081 CAB ROOF REPLACEMENT

This task covers:

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

INITIAL SETUP

Equipment Conditions

Cab clearance lights removed (para 7-31).
Spare tire retainer and davit prepared for air drop (TM 9-2320-365-10).

Tools and Special Tools

Sling Assembly, Air Drop Roof (TM 9-2320-365-10).
Tool Kit, Genl Mech (Item 44, Appendix C)
Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C)
Socket Set, Socket Wrench (Item 34, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Screwdriver Attachment, Socket Wrench (Item 47.1, Appendix B)
Dispenser, Sealant (Item 13.1, Appendix B)

Tools and Special Tools (Cont)

Screwdriver Attachment, Socket Wrench (Item 45, Appendix B)
Screwdriver Attachment, Socket Wrench (Item 50, Appendix B)

Material/Parts

Rubber Strip (Item 251, Appendix F)
Sealing Compound (Item 68.1, Appendix D)

Personnel Required

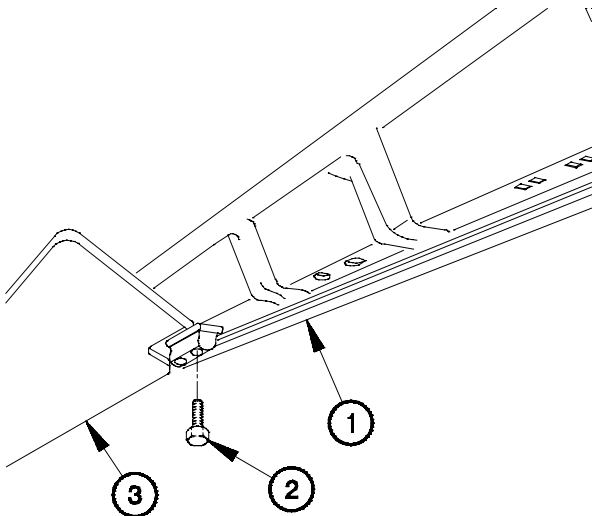
(2)

a. Removal.

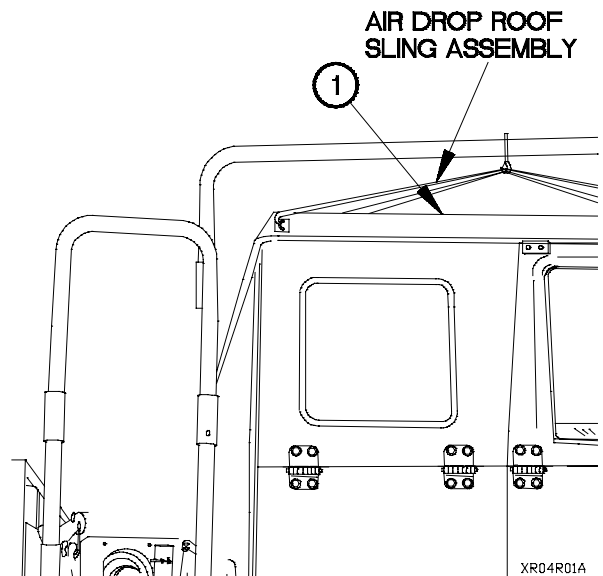
WARNING

Cab roof weighs approximately 110 lbs (50 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel.

- (1) Attach air drop roof sling assembly to cab roof (1).



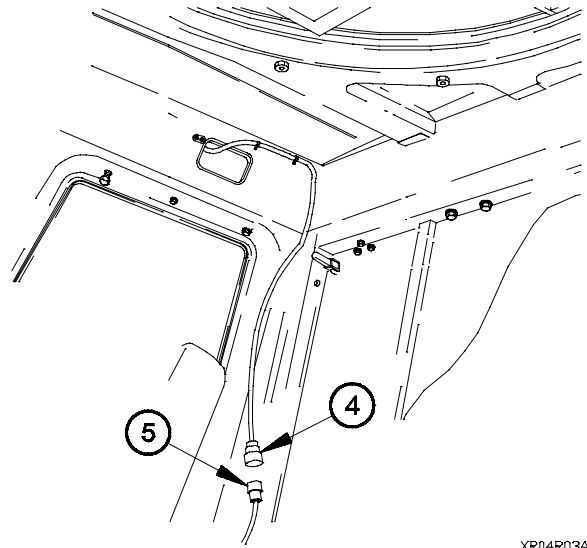
XR04R02A



XR04R01A

- (2) Remove four screws (2) and sun visor (3) from cab roof (1).

(3) Disconnect connector P3 (4) from connector J3 (5).

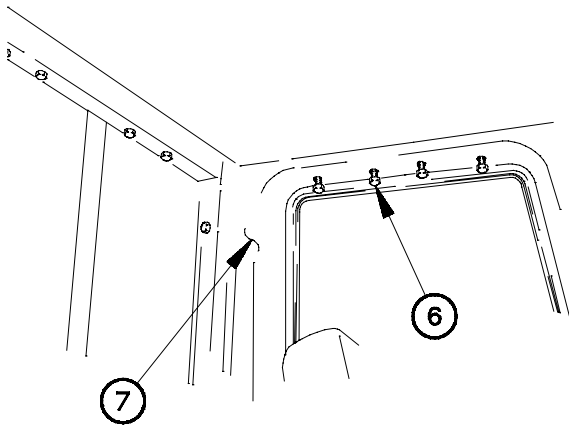


XR04R03A

NOTE

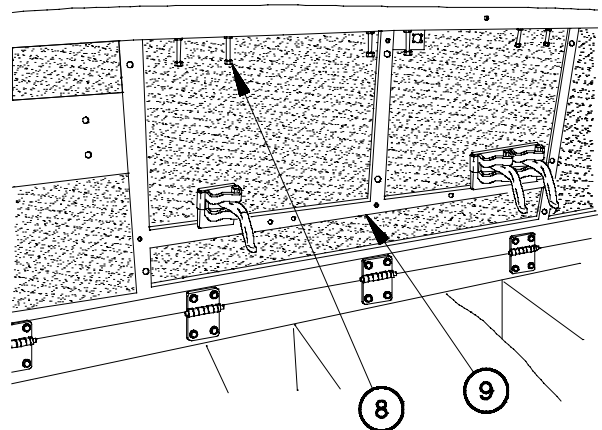
Pull down on captive screws after loosening to disengage from cab roof.

(4) Loosen four captive screws (6) in left side cab wall (7).



XR04R04A

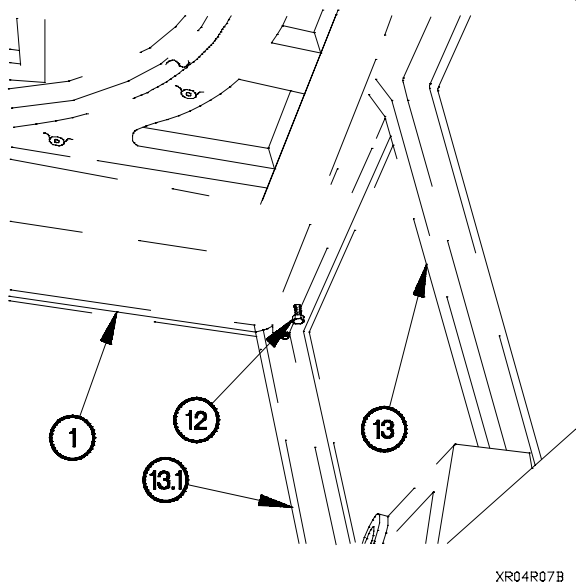
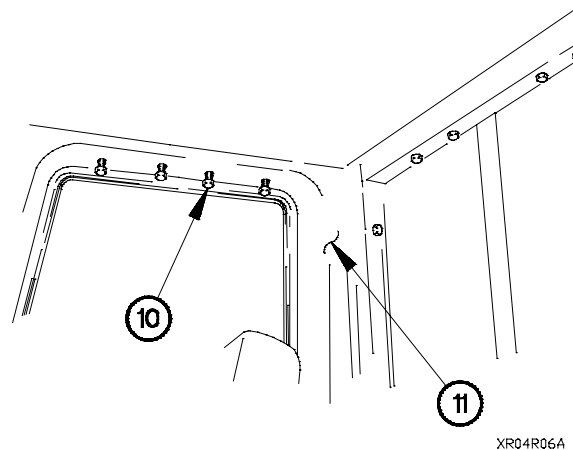
(5) Loosen ten captive screws (8) in cab rear wall (9).



XR04R05A

16-4. M1081 CAB ROOF REPLACEMENT (CONT)

- (6) Loosen four captive screws (10) in right side cab wall (11).



- (7) Loosen ten captive screws (12) in cab windshield frame (13).

NOTE

Steps (8) through (10.3) require the aid of an assistant.

- (8) Remove cab roof (1) from cab (13.1).

- (9) Match mark roof hatch (14) to cab roof (1).

NOTE

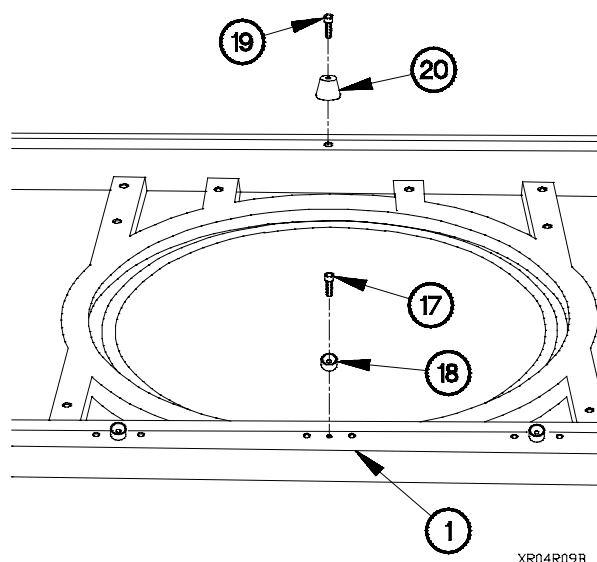
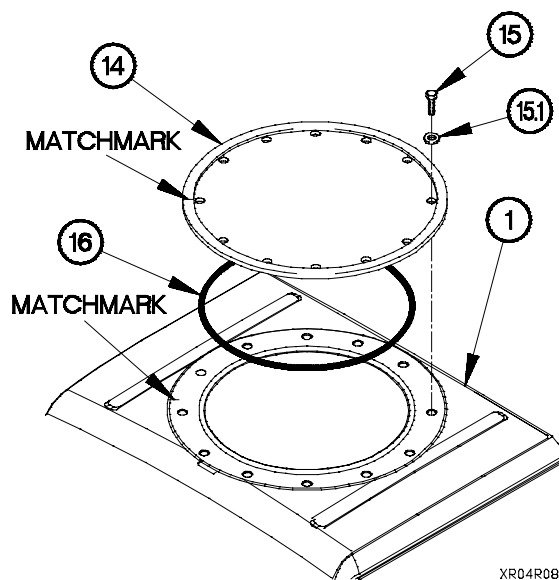
Perform step (10) if cab maintenance has not been previously performed. Replace screws P/N B1834B1205N with screws P/N 12422263 and washers P/N 12422217.

- (10) Remove 12 screws (15) and roof hatch (14) from cab roof (1). Discard screws.

NOTE

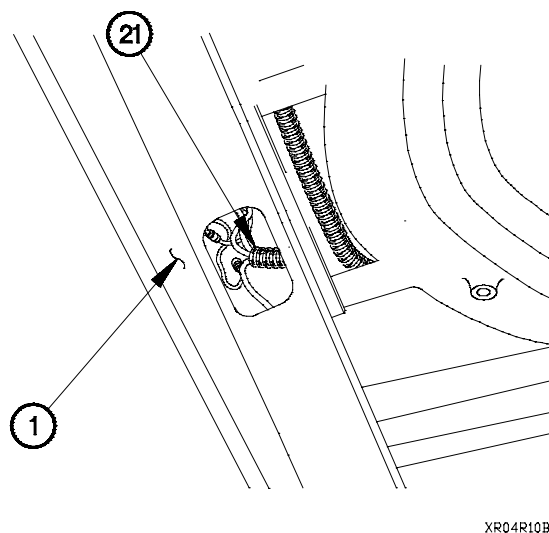
Perform steps (10.1) and (10.2) if cab maintenance has been previously performed.

- (10.1) Remove sealant from 12 screws (15), roof hatch (14) and cab roof (1).
- (10.2) Remove 12 screws (15), washers (15.1), and roof hatch (14) from cab roof (1).
- (10.3) Remove rubber strip (16) from roof hatch (14). Discard rubber strip.



- (11) Remove 11 screws (17) and centering cups (18) from cab roof (1).
- (12) Remove five screws (19) and centering cones (20) from cab roof (1).

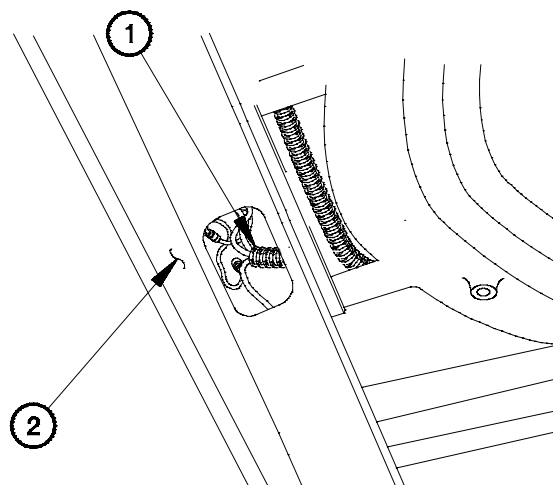
- (13) Remove cab clearance lights upper cable assembly (21) from cab roof (1).



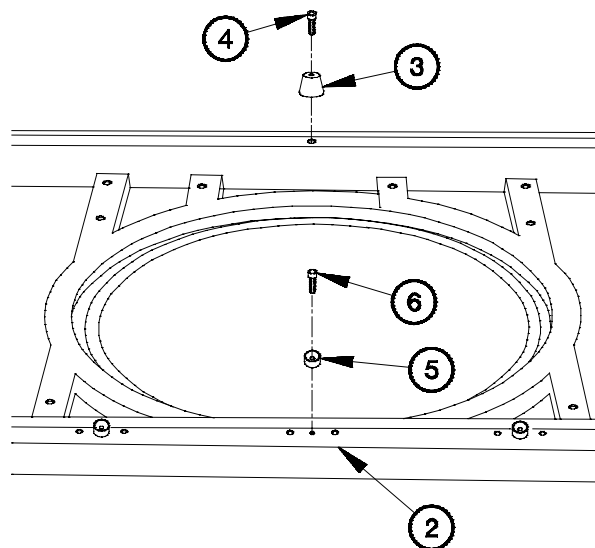
16-4. M1081 CAB ROOF REPLACEMENT (CONT)

b. Installation.

- (1) Install cab clearance lights upper cable assembly (1) in cab roof (2).



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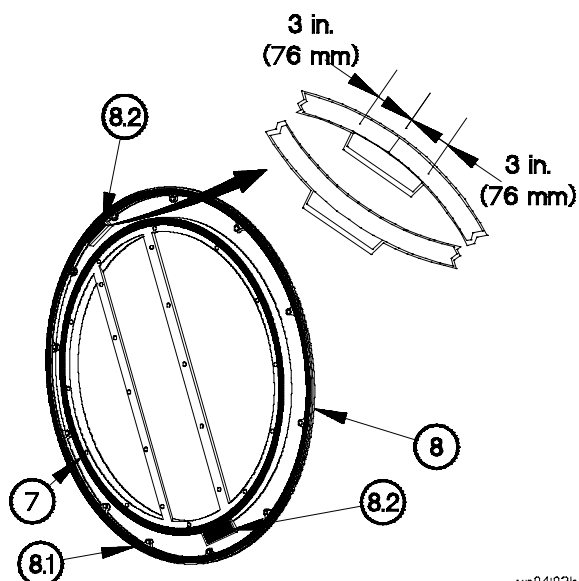


XR04102A

CAUTION

Begin inside and outside rubber strip installation on opposite sides of each other. Failure to comply may result in damage to equipment.

- (5) Install inside rubber strip (7) on roof hatch (8).
- (6) Install outside rubber strip (8.1) on roof hatch (8).
- (7) Install 6 in. (152.0 mm) back-up rubber strips (8.2) centered on joints of inside and outside rubber strips (7 and 8.1).

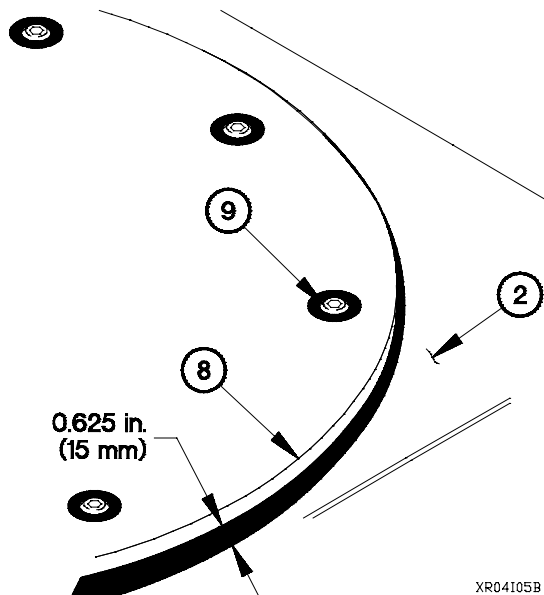
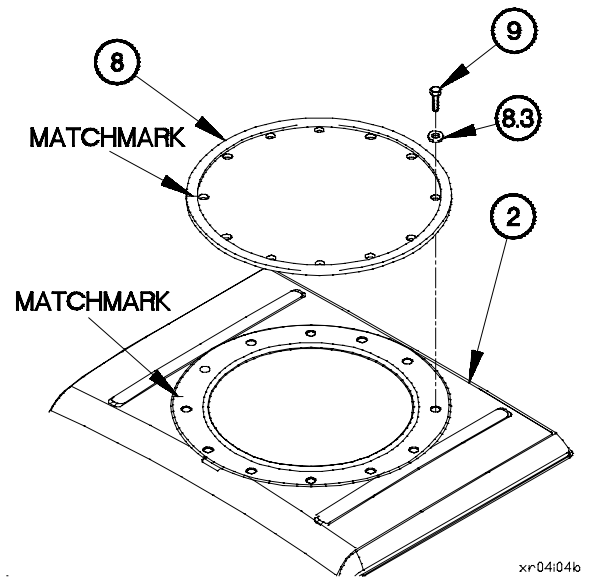


xr04103b

NOTE

Steps (8) through (11) require the aid of an assistant.

- (8) Position roof hatch (8) on cab roof (2) with matchmarks aligned.
- (8.1) Position 12 washers (8.3) and screws (9) in roof hatch (8).
- (8.2) Tighten 12 screws (9) to 35-41 lb-ft (48-56 N·m).

**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.

- (8.3) Apply 0.625 in. (15.0 mm) bead of sealant to 12 screws (9) and between roof hatch (8) and cab roof (2).