

**TECHNICAL MANUAL
MAINTENANCE INSTRUCTIONS
DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
M1083 SERIES, 5-TON, 6X6,
MEDIUM TACTICAL VEHICLES (MTV)**

VOLUME NO. 3 OF 4

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PAGE iv**

**CAB AND BODY MAINTENANCE
PAGE 15-1**

**MATERIAL HANDLING CRANES
(MHC), 30K WINCHES, UNDERLIFT,
AND 15K SELF-RECOVERY WINCH
(SRW) MAINTENANCE
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**HYDRAULIC SYSTEM MAINTENANCE
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MODEL	NSN	EIC
TRK, CAR., MTV, M1083 W/WN W/O WN	2320-01-360-1895 2320-01-354-3386	BT3 BR2
TRK, CAR., MTV, W/MATL HDLG EQPT (MHE), M1084	2320-01-354-3387	BR3
TRK, CAR., MTV, LWB, M1085 W/WN W/O WN	2320-01-360-1897 2320-01-354-4530	BT5 BR7
TRK, CAR., MTV, LWB, W/MATL HDLG EQPT (MHE), M1086	2320-01-354-4531	BR8
TRK, TRACTOR, MTV, M1088 W/WN W/O WN	2320-01-360-1892 2320-01-355-4332	BTY BTJ
TRK, WKR, MTV, M1089	2320-01-354-4528	BR4
TRK, DUMP, MTV, M1090 W/WN W/O WN	2320-01-360-1893 2320-01-354-4529	BTZ BR5
TRK, CHAS, MTV, M1092	2320-01-354-3382	BRZ
TRK, CAR., MTV, AIR DROP, M1093 W/WN W/O WN	2320-01-360-1896 2320-01-355-3063	BT4 BR9
TRK, DUMP, MTV, AIR DROP, M1094 W/WN W/O WN	2320-01-360-1984 2320-01-355-3062	BT2 BTK
TRK, CHAS, MTV, LWB, M1096	2320-01-354-4527	BR6

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Direct Support and General Support Maintenance Manual
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VOLUME NO. 3 OF 4

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TRK, CAR., MTV, LWB, W/MATL HDLG EQPT (MHE), M1086	2320-01-354-4531	BR8
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TRK, DUMP, MTV, M1090 W/WN W/O WN	2320-01-360-1893 2320-01-354-4529	BTZ BR5
TRK, CHAS, MTV, M1092	2320-01-354-3382	BRZ
TRK, CAR., MTV, AIR DROP, M1093 W/WN W/O WN	2320-01-360-1896 2320-01-355-3063	BT4 BR9
TRK, DUMP, MTV, AIR DROP, M1094 W/WN W/O WN	2320-01-360-1984 2320-01-355-3062	BT2 BTK
TRK, CHAS, MTV, LWB, M1096	2320-01-354-4527	BR6

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HOW TO USE THIS MANUAL

OVERVIEW

This Technical Manual (TM) is provided to help you maintain the MTV at the Direct Support (DS) Maintenance level. This volume, Volume 3, contains information which will assist you in the performance of DS Maintenance on the MTV. Volume 3 contains the following major sections in order of appearance:

- **WARNING SUMMARY.** Provides a summary of the most important warnings that apply throughout the manual. Read all **WARNINGS** and **CAUTIONS** before performing any maintenance procedure.
- **TABLE OF CONTENTS.** Lists the chapters, sections, appendixes, and indexes with page numbers in order of appearance.
- **MAINTENANCE PROCEDURES.** DS Maintenance procedures to assist you in supporting the MTV. Chapters 15 through 17 are Direct Support Maintenance procedures. Become familiar with the entire maintenance procedure before beginning any maintenance task.

DIRECT SUPPORT MAINTENANCE

- **CHAPTER 15, BODY AND CAB MAINTENANCE**
- **CHAPTER 16, MATERIAL HANDLING CRANES (MHC), 30K WINCHES, UNDERLIFT, AND 15K SELF-RECOVERY WINCH (SRW) MAINTENANCE**

- **CHAPTER 17, HYDRAULIC SYSTEM MAINTENANCE**
- **APPENDIX A, REFERENCES.** Lists publications used with the MTV and reference publications which contain information regarding the equipment.
- **APPENDIX B, TOOLS AND SPECIAL TOOLS LIST.** Lists equipment used in the performance of maintenance.
- **APPENDIX C, EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST.** Lists expendable and durable items used in the performance of maintenance.
- **APPENDIX D, ILLUSTRATED LIST OF MANUFACTURED ITEMS.** Illustrates and describes items that must be fabricated from bulk materials for repair of the MTV.
- **APPENDIX E, TORQUE LIMITS.** Lists the standard torque values for specific attaching hardware.
- **APPENDIX F, MANDATORY REPLACEMENT PARTS.**
- **APPENDIX G, ADDITIONAL AUTHORIZATION LIST (AAL).** Lists additional items you are authorized for support of the MTV.
- **APPENDIX H, TRANSMISSION/TRANSMISSION CONTROLS ADAPTABILITY CHART.** Lists actions required to mate different transmission configurations with WTEC II or WTEC III controls.
- **SUBJECT INDEX.** Lists important subjects contained in Volume 3 in alphabetical order and gives the paragraph number where they are located.

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 this 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.** Lists paragraphs contained in the individual chapters with paragraph and page numbers in order of appearance.
- **SUBJECT INDEX.** Lists all maintenance procedures contained in Volume 3 in alphabetical order and gives the paragraph number where they are located.

TROUBLESHOOTING

Troubleshooting is contained in Chapter 2 of Volume 1. 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)

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 15

BODY AND CAB MAINTENANCE

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Section I. INTRODUCTION

15-1. INTRODUCTION

This chapter contains maintenance instructions for replacing and repairing Body and Cab components authorized by the Maintenance Allocation Chart (MAC) at the Direct Support (DS) Maintenance level.

Section II. MAINTENANCE PROCEDURES

15-2. CAB REPLACEMENT

This task covers:

- | | |
|----------------|--------------------------|
| a. Removal | d. Installation |
| b. Disassembly | e. Follow-On Maintenance |
| c. Assembly | |

INITIAL SETUP

Equipment Conditions

Cab protector lowered (M1090/M1094) (TM 9-2320-366-10-1).
 Air tanks drained (TM 9-2320-366-10-1).
 Radiator drained (TM 9-2320-366-20-3).
 WTEC II dashboard cable assembly removed, if equipped (TM 9-2320-366-20-3).
 WTEC III dashboard cable assembly removed, if equipped (TM 9-2320-366-20-3).
 Auxiliary panel cable assembly removed, if equipped (TM 9-2320-366-20-3).
 Steering column removed (TM 9-2320-366-20-4).
 Foot control valve and brake foot pedal removed (TM 9-2320-366-20-4).
 Park control two-way check valve removed (TM 9-2320-366-20-4).
 Throttle control cable removed (TM 9-2320-366-20-3).
 Throttle control cable threaded rod removed (TM 9-2320-366-20-3).
 Accelerator pedal removed (TM 9-2320-366-20-3).
 Fan and differential lock solenoids removed (TM 9-2320-366-20-3).
 STE-ICE/R cable assembly removed (TM 9-2320-366-20-3).
 Manifold valve assembly removed (TM 9-2320-366-20-4).
 Clearance light cable assemblies removed (TM 9-2320-366-20-3).
 Mirrors removed (TM 9-2320-366-20-5).
 Air drop cab liners removed, (M1093/M1094) (TM 9-2320-366-20-4).
 Cab liners removed (TM 9-2320-366-20-4).
 Cab floor covering removed (TM 9-2320-366-20-4).
 Warning light cable removed (TM 9-2320-366-20-5).
 Warning light kit removed, if equipped (TM 9-2320-366-10-2).
 Chemical kit alarm cable removed, if equipped (TM 9-2320-366-20-3).

Equipment Conditions (Cont)

Roof hatch removed (TM 9-2320-366-20-4).
 Machine gun ring kit removed, if equipped (para 19-2).
 Windshield wipers and linkage removed (TM 9-2320-366-20-5).
 Cab windshield and side windows removed (para 15-7).
 Boarding handles removed (TM 9-2320-366-20-5).
 Horn removed (TM 9-2320-366-20-3).
 Fenders and mud flaps removed (TM 9-2320-366-20-4).
 Placards removed, as required (TM 9-2320-366-20-2).

Tools and Special Tools

Tool Kit, Genl Mech (Item 78, Appendix B)
 Wrench Set, Socket (Item 85, Appendix B)
 Wrench, Torque, 0-150 lb-in. (Item 91, Appendix B)
 Wrench, Torque, 0-175 lb-ft (Item 92, Appendix B)
 Wrench Set, Socket (Item 84, Appendix B)
 Wrench, Torque, 0-600 lb-ft (Item 97, Appendix B)
 Puller Kit, Universal (Item 50, Appendix B)
 Tool Kit, Blind Rivet (Item 76, Appendix B)
 Bar, Spreader (Item 21, Appendix D)
 Sling, Cargo (Item 56, Appendix B)
 Stand, Cab Maintenance (Item 4, Appendix D)
 Tool, Cab Support (Item 5, Appendix D)
 Dispenser, Sealant (Item 16.1, TM 9-2320-366-20 Appendix B)

Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 30, Appendix C)
 Ties, Cable, Plastic (Item 92, Appendix C)

15-2. CAB REPLACEMENT (CONT)

INITIAL SETUP (CONT)

Materials/Parts (Cont)

Antifreeze (Item 11, Appendix C)
 Sealing Compound (Item 70, Appendix C)
 Rubber, Sheet (Item 64, Appendix C)
 Nut, Self-locking (Item 214, Appendix F)
 Lockwasher (Item 128, Appendix F)
 Washer, Spring Tension (Item 437, Appendix F)
 Seal, Door (2) (Item 373, Appendix F)
 Nut, Clinch (61) (Item 169, Appendix F)
 Nut, Clinch (4) (Item 170, Appendix F)
 Pin, Cotter (Item 330, Appendix F)
 Seal (Item 366, Appendix F)
 Plug, Plastic (2) (Item 344, Appendix F)
 Rivet, Compression (5) (Item 365, Appendix F)
 Sealing Compound (Item 76.1, Appendix C)

Materials/Parts (Cont)

Plug, Plastic (10) (Item 345, Appendix F)
 Plug, Rubber (6) (Item 348, Appendix F)
 Plug, Rubber (6) (Item 351, Appendix F)
 Plug, Rubber (6) (Item 347, Appendix F)
 Plug, Rubber (2) (Item 346, Appendix F)
 Plug, Rubber (4) (Item 350, Appendix F)
 Plug, Rubber (13) (Item 349, Appendix F)
 Plug, Rubber (2) (Item 350, Appendix F)
 Lockwasher (4) (Item 132, Appendix F)
 Adhesive (Item 10, Appendix C)
 Rubber Strip (Item 366, Appendix F)
 Adhesive (item 10, Appendix C)
 Nut, Self-Locking (4) (Item 214, Appendix F)

Personnel Required

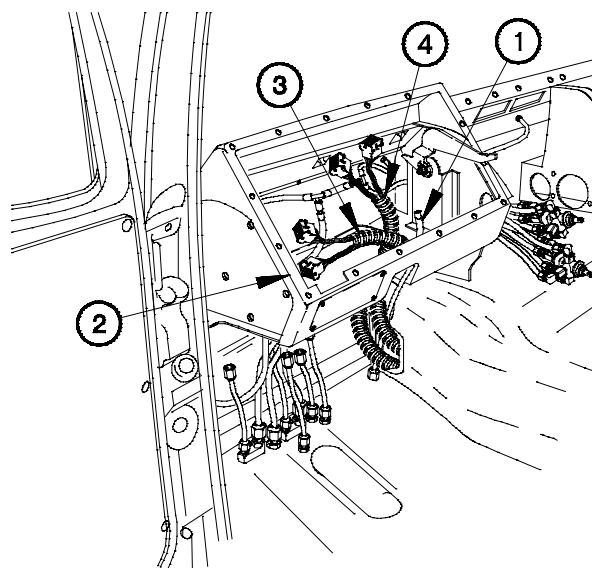
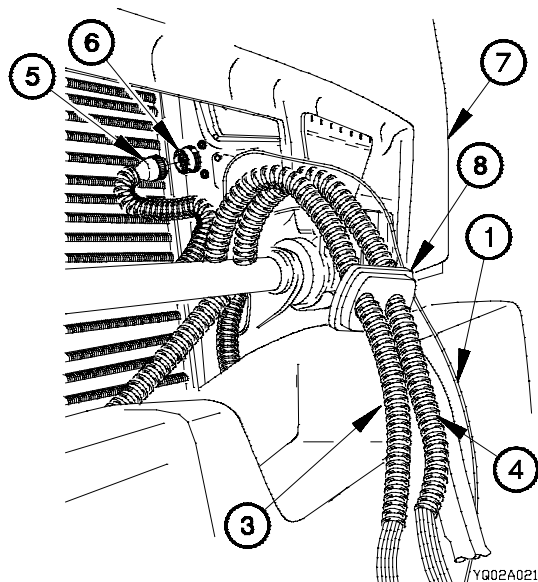
(2)

a. Removal.

NOTE

Remove plastic cable ties as required.

- (1) Remove vacuum hose (1) from dashboard (2).
- (2) Remove engine control cable assembly (3) and start and charging cable assembly (4) from dashboard (2).



YG02A011

- (3) Disconnect connector P119 (5) from connector J119 (6).

NOTE

Steps (4) and (5) require the aid of an assistant.

- (4) Remove vacuum hose (1) from cab (7).
- (5) Remove engine control cable assembly (3), start and charging cable assembly (4), and grommet (8) from cab (7).

15-2. CAB REPLACEMENT (CONT)

- (6) Remove front lights cable assembly (9), rear lights cable assembly (10), power distribution panel 12 vdc cable (11), and power distribution panel 24 vdc cable (12) from dashboard (2).

NOTE

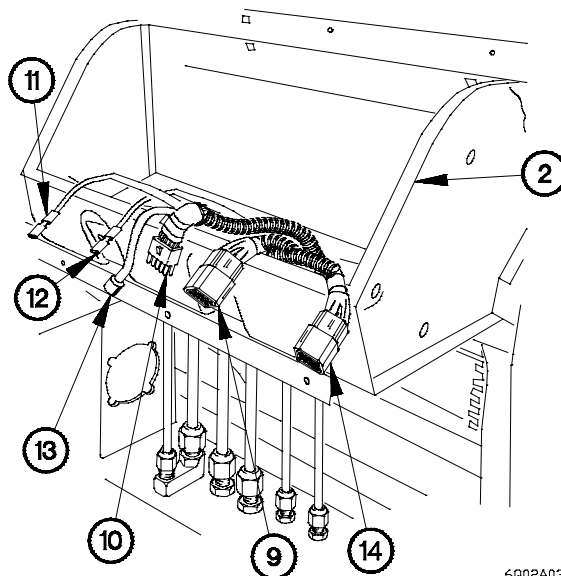
Perform step (7) on vehicles equipped with PTO.

- (7) Remove PTO cable assembly (13) from dashboard (2).

NOTE

Perform step (8) on M1084, M1086, M1090, and M1094.

- (8) Remove crane/dump power cable assembly (14) from dashboard (2).



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NOTE

Steps (9) through (11) require the aid of an assistant.

- (9) Remove front lights cable assembly (9), rear lights cable assembly (10), power distribution panel 12 vdc cable (11), power distribution panel 24 vdc cable (12), and grommet (15) from cab (7).

NOTE

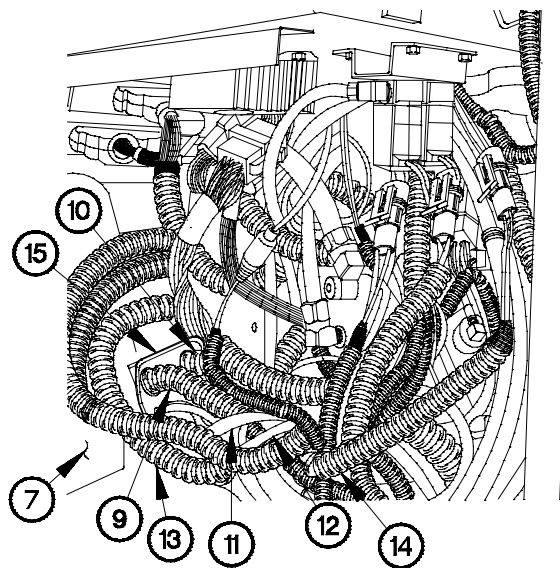
Perform step (10) on vehicles equipped with PTO.

- (10) Remove PTO cable assembly (13) from cab (7).

NOTE

Perform step (11) on M1084, M1086, M1090, and M1094.

- (11) Remove crane/dump power cable assembly (14) from cab (7).

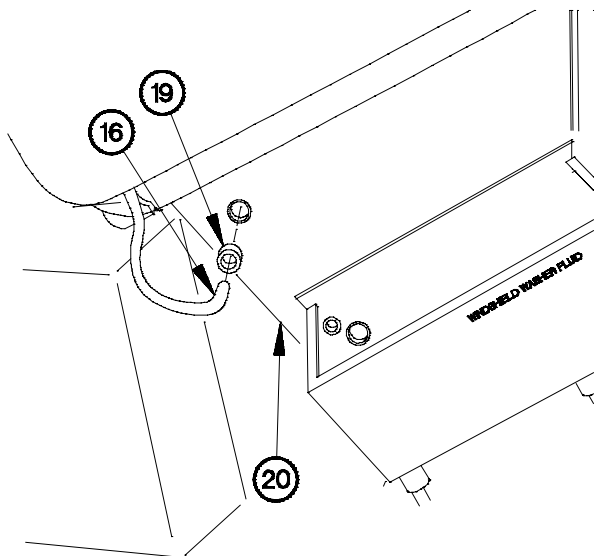


6G02A04B

(12) Raise cab (TM 9-2320-366-10-1).

(13) Remove hose (16) from step (17).

(14) Remove windshield washer pump/EMI cable assembly (18) from step (17).



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NOTE

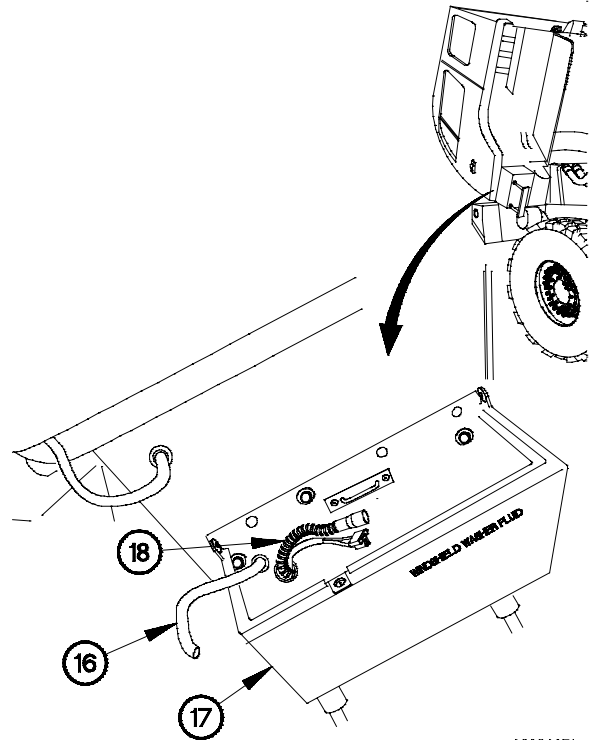
Perform steps (15.1) on vehicle serial number 7448 and higher and vehicle serial numbers 0001 through 7447 that have previously had front lights cable assembly replaced.

(15.1) Remove adhesive and boot (20.1) from low pressure transmitter (25).

NOTE

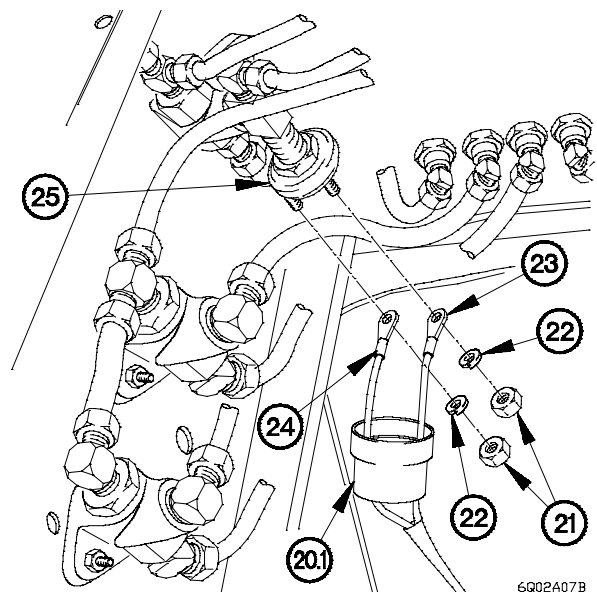
Tag wires and connection points prior to disconnecting.

(16) Remove two nuts (21), lockwashers (22), and terminal lugs TL201 (23) and TL202 (24) from low pressure transmitter (25). Discard lockwashers.



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(15) Remove hose (16) and grommet (19) from step mount (20).



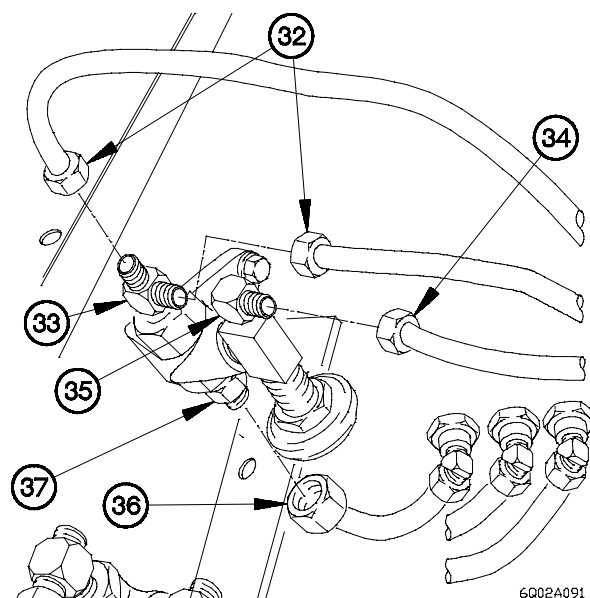
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15-2. CAB REPLACEMENT (CONT)

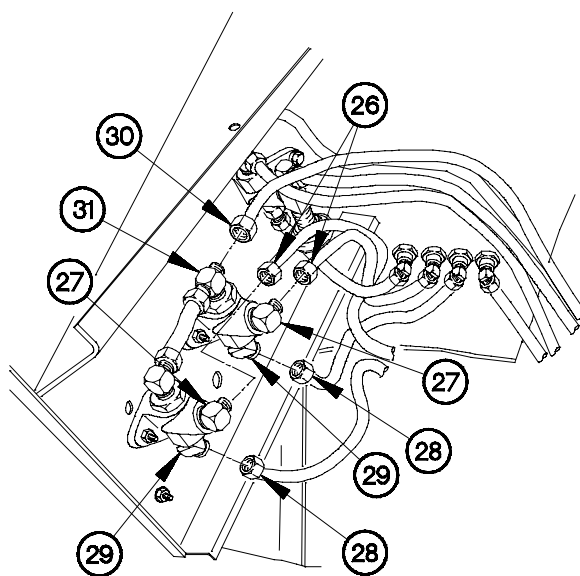
NOTE

Tag hoses and connection points prior to disconnecting.

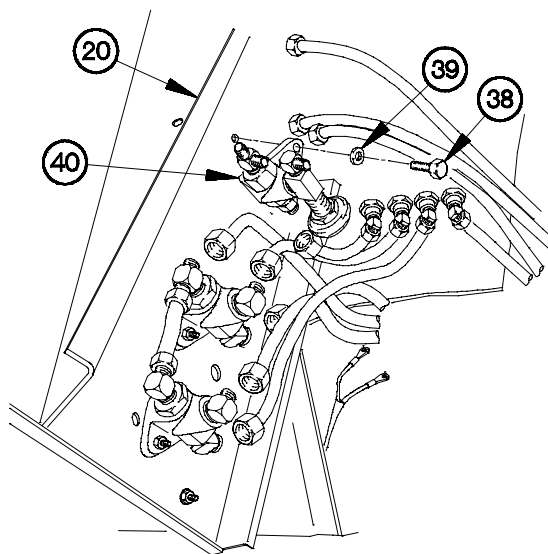
- (17) Disconnect two hoses (26) from 90-degree fittings (27).
- (18) Disconnect two hoses (28) from 45-degree fittings (29).
- (19) Disconnect hose (30) from tee fitting (31).



- (20) Disconnect two hoses (32) from tee fitting (33).
- (21) Disconnect hose (34) from 90-degree fitting (35).
- (22) Disconnect hose (36) from fitting (37).



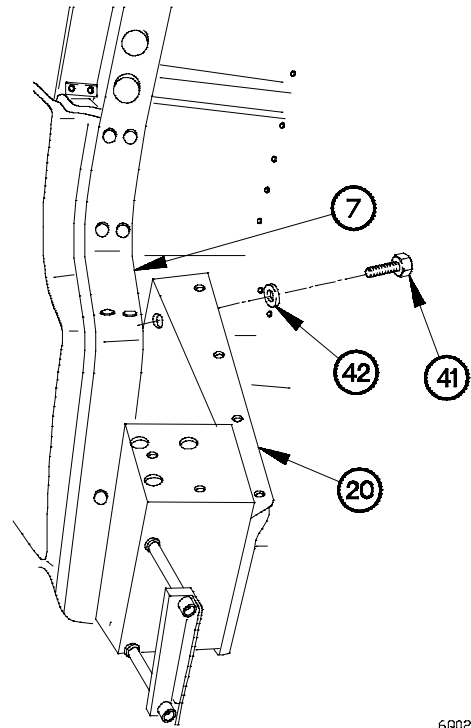
- (23) Remove screw (38), washer (39), and valve (40) from step mount (20).



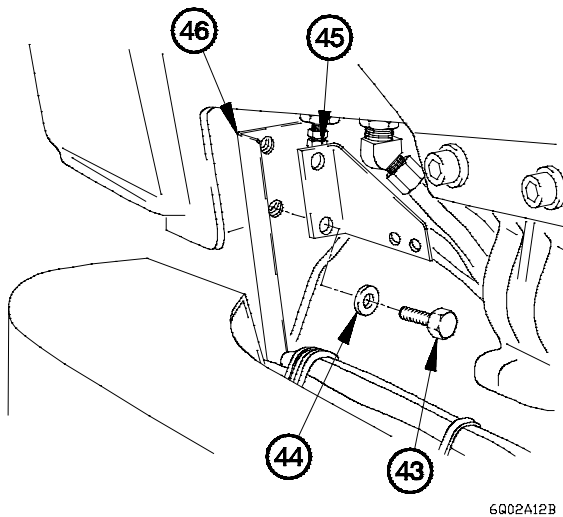
NOTE

Step (24) requires the aid of an assistant.

- (24) Remove seven screws (41), washers (42), and step mount (20) from cab (7).



6Q02A11B



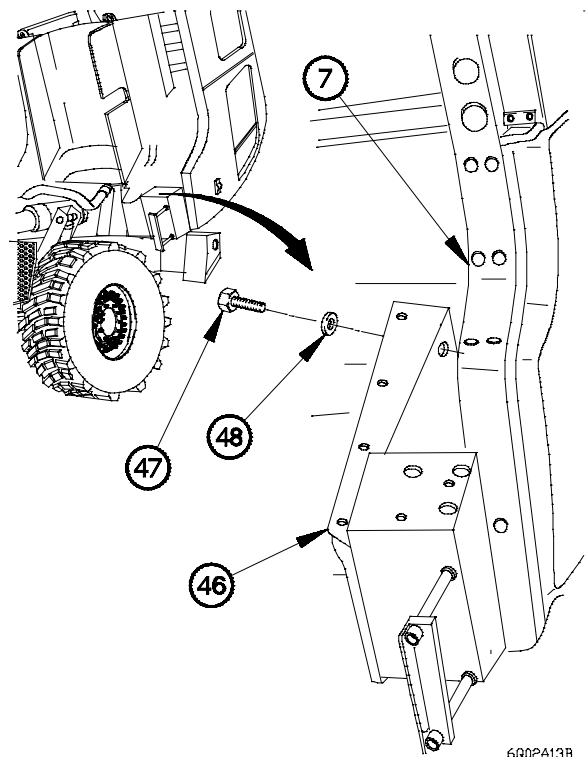
6Q02A12B

- (25) Remove two screws (43), washers (44), and bracket (45) from step mount (46).

NOTE

Step (26) requires the aid of an assistant.

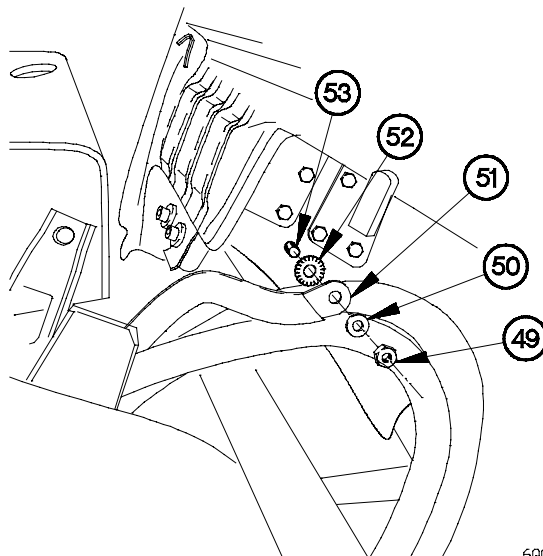
- (26) Remove six screws (47), washers (48), and step mount (46) from cab (7).



6Q02A13B

15-2. CAB REPLACEMENT (CONT)

- (27) Remove self-locking nut (49), washer (50), ground strap (51), and lockwasher (52) from ground stud (53). Discard self-locking nut and lockwasher.

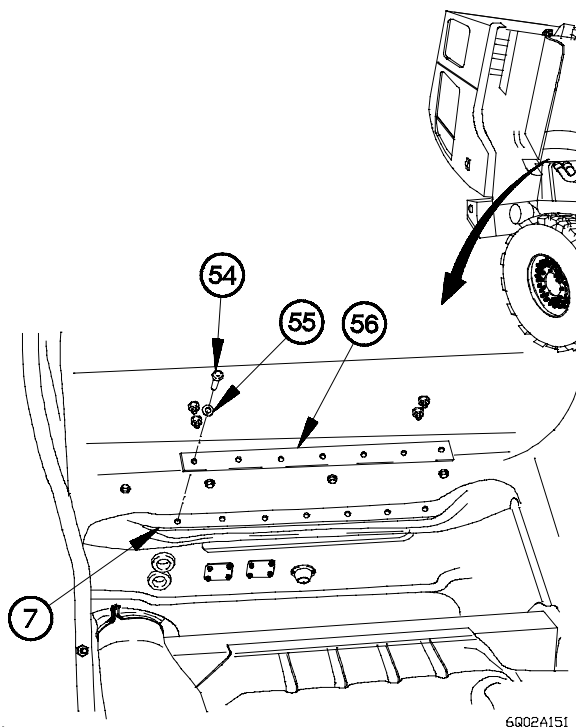


6G02A141

WARNING

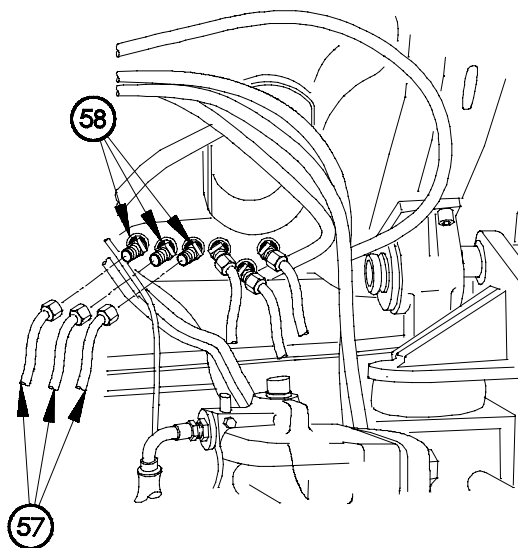
Wear appropriate eye protection when drilling out rivets. Failure to comply may result in injury to personnel.

- (28) Remove seven rivets (54), washers (55), and baffle (56) from cab (7).



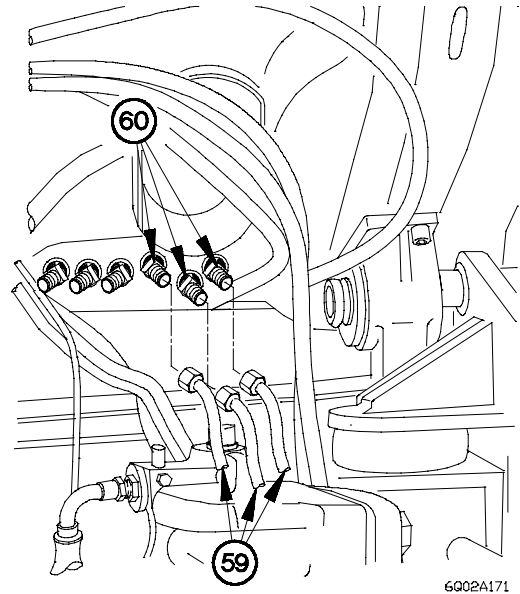
6G02A151

- (29) Disconnect three hoses (57) from 45-degree fittings (58).



6G02A161

(30) Disconnect three hoses (59) from 45-degree fittings (60).

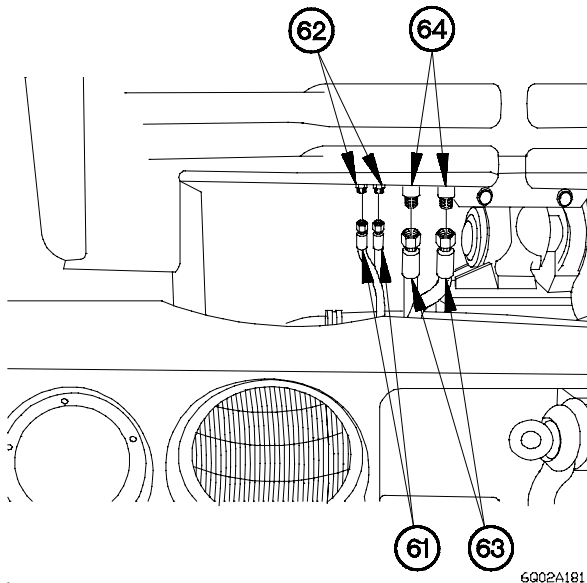


WARNING

Wear protective goggles to protect against possible injury from release of high pressure air. Failure to comply may result in injury to personnel.

(31) Disconnect two pneumatic hoses (61) from 45-degree fittings (62).

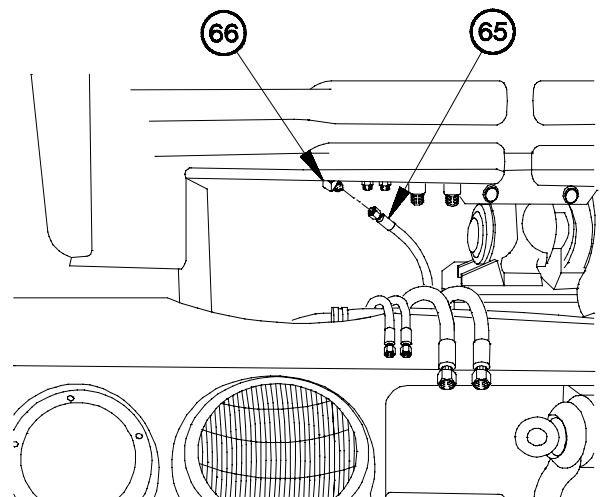
(32) Disconnect two pneumatic hoses (63) from fittings (64).



NOTE

Perform step (33) on M1088.

(33) Disconnect pneumatic hose (65) from 45-degree fitting (66).



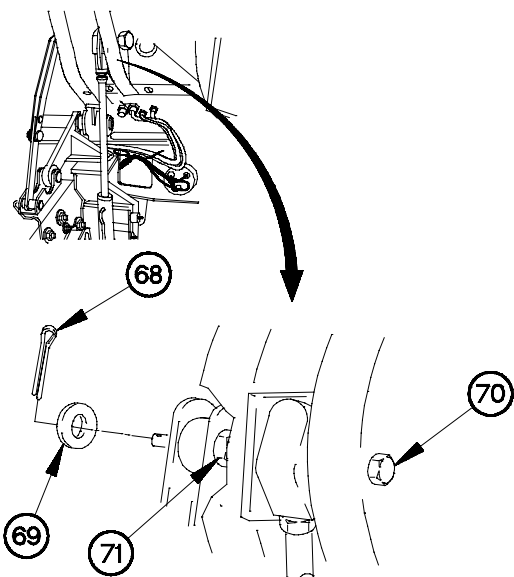
6Q02A191

15-2. CAB REPLACEMENT (CONT)

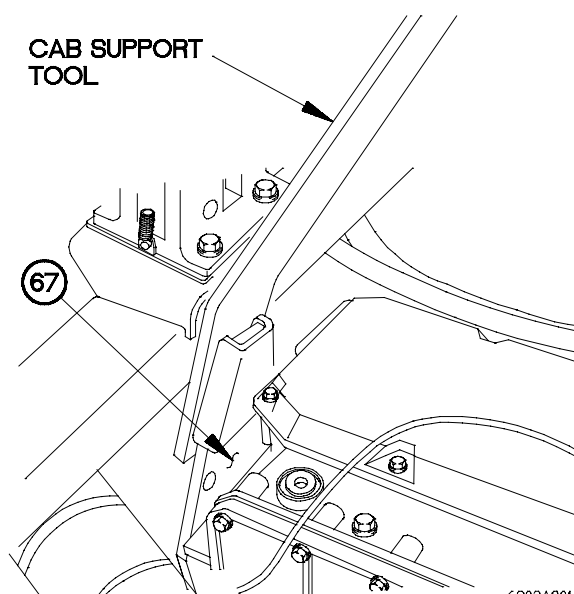
WARNING

Brace cab prior to removal of cotter pin from cab tilt cylinder mounting bolt. Failure to comply may result in serious injury or death to personnel or damage to equipment.

- (34) Install cab support tool on engine rear lifting eye (67).
- (35) Lower cab until cab rests on cab support tool (TM 9-2320-366-10-1).

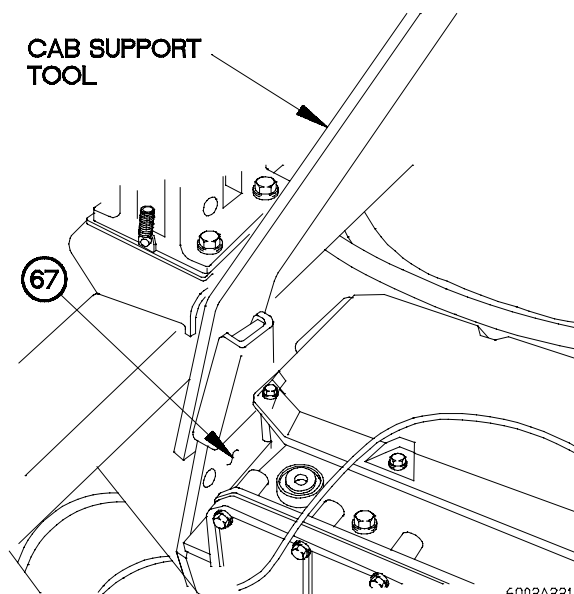


- (38) Raise cab slightly and remove cab support tool from engine rear lifting eye (67) (TM 9-2320-366-10-1).



6G02A201

- (36) Remove cotter pin (68) and washer (69) from cab tilt cylinder mounting bolt (70). Discard cotter pin.
- (37) Loosen self-locking nut (71) on cab tilt cylinder mounting bolt (70).

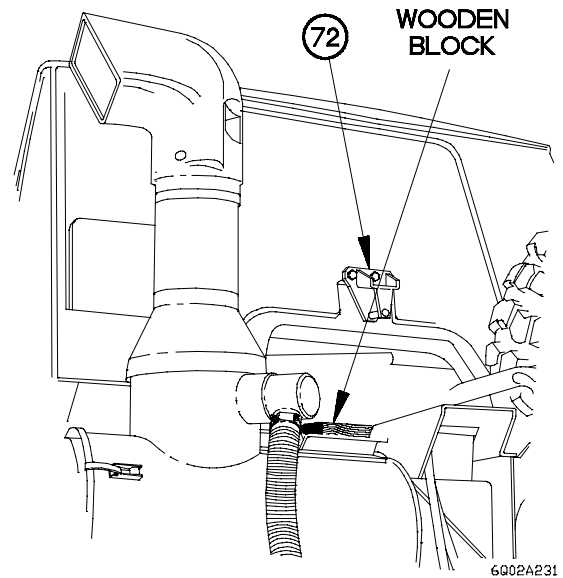


6G02A221

NOTE

Use wooden block on top of cab hydraulic latch to prevent cab from latching when cab is lowered.

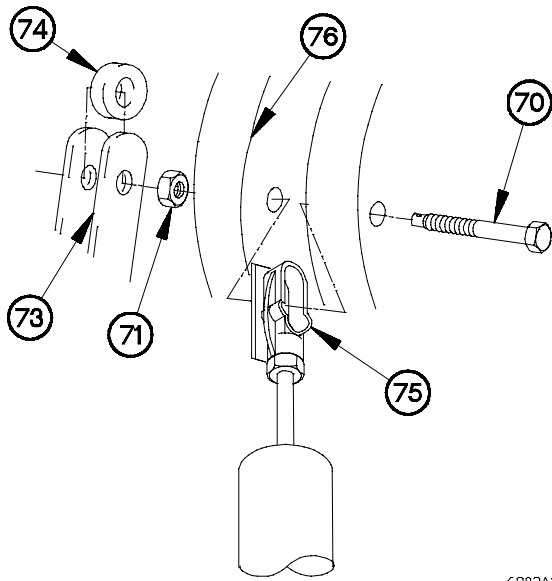
- (39) Lower cab until cab latch (72) rests on wooden block (TM 9-2320-366-10-1).



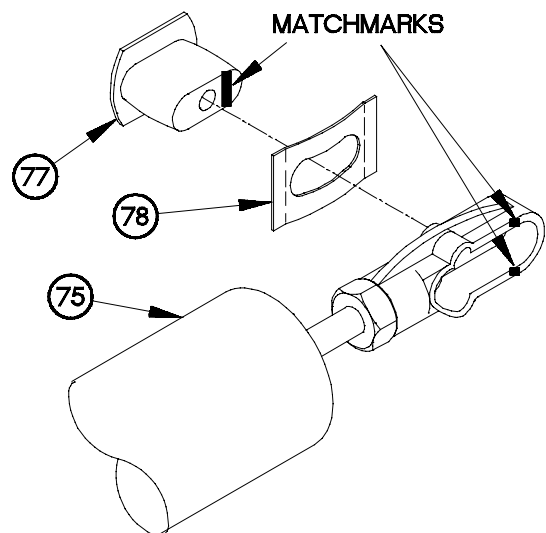
NOTE

Steps (40) and (41) require the aid of an assistant.

- (40) Disengage locking arm (73) and spacer (74) from cab tilt cylinder mounting bolt (70).
- (41) Remove self-locking nut (71), cab tilt cylinder mounting bolt (70), and cab tilt cylinder (75) from bracket (76). Discard self-locking nut.



- (42) Match mark remote control cam (77) to cab tilt cylinder (75) prior to removal.
- (43) Swing cab tilt cylinder (75) back out of way and remove control cam (77) and spring washer (78) from cab tilt cylinder (75). Discard spring washer.

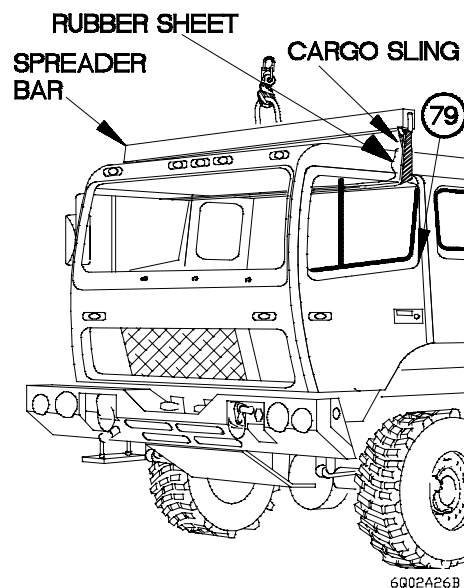


15-2. CAB REPLACEMENT (CONT)

CAUTION

Use spreader bar and place sheet rubber on cargo sling to prevent damage to cab roof. Failure to comply may result in damage to equipment.

- (44) Lower cab door windows and install cargo sling through rear section of cab doors (79).

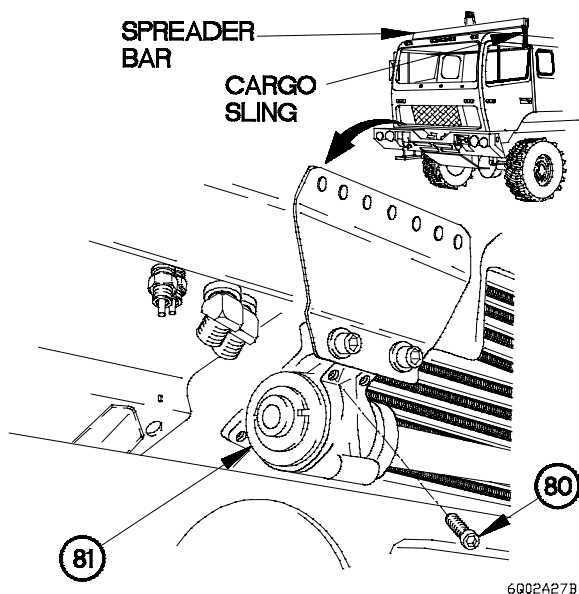


WARNING

- Standard cab weighs approximately 1400 lbs (636 kgs). M1093/M1094 cab weighs approximately 1700 lbs (772 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.
- Cab may swing forward slightly when screws are removed. An assistant is required to steady cab. Failure to comply may result in injury to personnel or damage to equipment.

NOTE

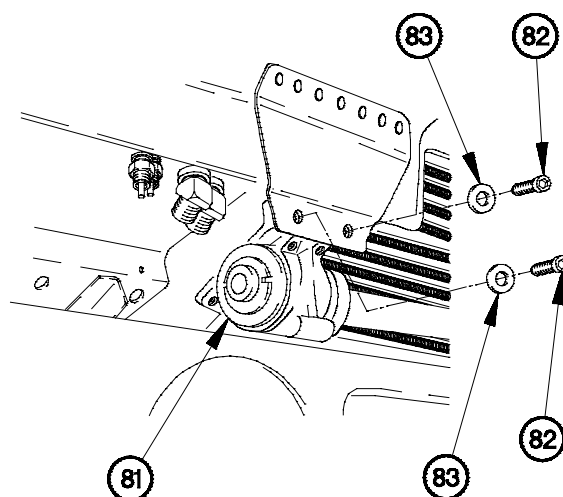
Left and right side cab front support mounts are disconnected the same way. Right side shown.



- (45) Remove four screws (80) from cab front support mount (81).

(46) Remove two screws (82) and washers (83) from cab front support mount (81).

(47) Perform steps (45) and (46) on left side cab front support mount.



6Q02A28B

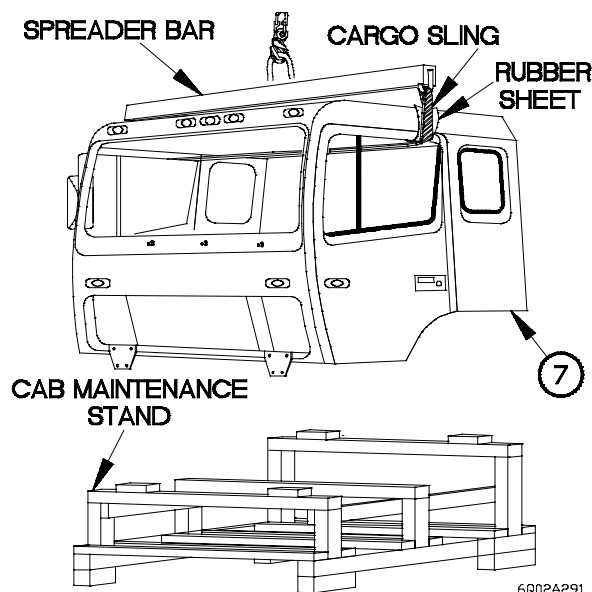
CAUTION

Raise cab straight up to clear radiator. Failure to comply may result in damage to equipment.

(48) Remove cab (7) from vehicle.

(49) Position cab (7) on cab maintenance stand.

(50) Remove spreader bar, cargo sling, and rubber sheet from cab (7).



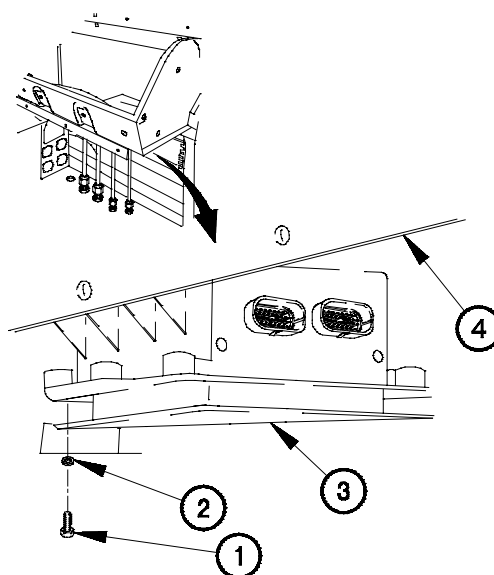
6Q02A291

b. Disassembly.

NOTE

Perform step (1) on WTEC II vehicles.

(1) Remove three screws (1), washers (2), and Vehicle Interface Module (VIM) (3) from dashboard (4).



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