ARMY TM 9-2320-365-20-4 AIR FORCE T.O. 36A12-1B-1095-2-4

HYDRAULIC SYSTEM MAINTENANCE

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 ii
TRK, CAR., LMTV, M1078			
W/WN	2320-01-360-1898	ВНН	BODY AND CAB MAINTENANCE
W/O WN	2320-01-354-3385	BHD	PAGE 16-1
TRK, VAN, LMTV, M1079			
W/WN	2320-01-360-1891	BHG	11K SELF-RECOVERY WINCH
W/O WN	2320-01-354-3384	BHE	MAINTENANCE
			PAGE 17-1
TRK, CHAS, LMTV, M1080	2320-01-353-9098	ВНС	
TRK, CAR., LMTV, AIR DROP, N	11081		BODY, CHASSIS, AND ACCESSORY
W/WN	2320-01-360-1899	BHJ	ITEMS MAINTENANCE
W/O WN	2320-01-355-3064	BHF	PAGE 18-1

<u>DISTRIBUTION STATEMENT A.</u> Approved for public release; distribution is unlimited.

WARNING SUMMARY



EXHAUST GASES CAN KILL

- 1. **DO NOT** operate your vehicle engine in an enclosed area.
- 2. **DO NOT** idle vehicle engine with cab windows closed.
- 3. **DO NOT** drive vehicle with inspection plates or covers removed.
- 4. **BE ALERT** at all times for exhaust odors.
- 5. **BE ALERT** for exhaust poisoning symptoms, they are:

Headache

Dizziness

Sleepiness

Loss of Muscular Control

6. **IF YOU SEE** another person with exhaust poisoning symptoms:

Remove person from area.

Expose to open air.

Keep person warm.

Do not permit person to move.

Administer cardiopulmonary resuscitation, if necessary. *

* For cardiopulmonary resuscitation, refer to FM 21-11.

WARNING

Remove rings, bracelets, watches, necklaces, and any other jewelry before working around vehicle. Jewelry can catch on equipment and cause injury or short across electrical circuit and cause severe burns or electrical shock. Batteries can explode from a spark. Battery acid is harmful to skin and eyes. Always wear eye protection and rubber gloves when working with batteries.

WARNING

Battery acid (electrolyte) is extremely harmful. Always wear safety goggles and rubber gloves, and do not smoke when performing maintenance on batteries. Injury will result if acid contacts skin or eyes. Wear rubber apron to prevent clothing being damaged.

WARNING SUMMARY (CONT)

WARNING

Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. To avoid injury or death, 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.

WARNING

- Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes, and do not breathe vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I Dry Cleaning Solvent is 100 degrees F (38 degrees C) and for Type II is 130 degrees F (50 degrees C). Failure to comply may result in serious injury or death to personnel.
- If personnel become dizzy while using Dry Cleaning Solvent, immediately get fresh air and medical help. If Dry Cleaning Solvent contacts skin or clothes, flush with cold water. If Dry Cleaning Solvent contacts eyes, immediately flush eyes with water and get immediate medical attention. Failure to comply may result in injury to personnel.

WARNING

Diesel fuel is flammable. If fuel is spilled, clean it up immediately. Failure to comply may result in serious injury or death to personnel.

WARNING

After Nuclear, Biological, or Chemical (NBC) exposure of vehicle, all air filters shall be handled with extreme caution. Unprotected personnel may experience serious injury or death if residual toxic agents or radioactive material are present. If vehicle is exposed to chemical or biological agents, servicing personnel shall wear protective mask, hood, protective overgarments, and chemical protective gloves and boots in accordance with FM-3-4. All contaminated air filters shall be placed in double-lined plastic bags and moved swiftly to a segregation area away from the worksite. The same procedure applies for radioactive dust contamination. The Company NBC team should measure radiation prior to filter removal to determine extent of safety procedures required per the NBC Annex to the unit Standard Operating Procedures (SOP). The segregation area in which the contaminated air filters are temporarily stored shall be marked with appropriate NBC placards. Final disposal of contaminated air filters shall be in accordance with local SOP. Decontamination operation shall be in accordance with FM-3-5 and local SOP. Failure to comply may result in serious injury or death to personnel.

WARNING

Diesel fuel is flammable. Do not fill fuel tank with engine running, while smoking, or when near an open flame. Never overfill the tank or spill fuel. If fuel is spilled, clean it up immediately. Failure to comply may result in serious injury or death to personnel.

WARNING

Adhesive sealant MIL-S-46163 can damage your eyes. Wear safety goggles/glasses when using; avoid contact with eyes. If sealant contacts eyes, flush eyes with water and get immediate medical attention. Failure to comply may result in injury to personnel.

WARNING

Use care when removing/installing springs. Springs are under tension and can act as projectiles when being removed. Failure to comply can cause injury to personnel.

WARNING

Retaining rings are under tension and can act as projectiles when released causing severe eye injury. Use care when removing retaining rings. Failure to comply may result in injury to personnel.

WARNING

Ensure exhaust system is cool before performing maintenance. Failure to comply may result in injury to personnel.

WARNING

Wear appropriate eye protection when working under vehicle due to the possibility of falling debris. Failure to comply may result in injury to personnel.

WARNING

Do not operate LMTV vehicle with muffler removed. Toxic exhaust fumes may enter cab, resulting in serious injury or death to personnel.

WARNING

Do not work on fuel system when engine is hot; fuel can be ignited by a hot engine.

WARNING SUMMARY (CONT)

WARNING

Post signs that read "NO SMOKING WITHIN 50 FEET" when working with open fuel, fuel lines or fuel tanks. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Exhaust pipe, transmission oil lines, and transmission scavenge pump hose may be hot to the touch. Extreme care should be taken when checking exhaust pipe, transmission oil lines, and transmission scavenge pump hose for leaks. Failure to comply may result in injury to personnel.

WARNING

Compressed air used for cleaning purposes will not exceed 30 psi (207 Kpa). Use only with effective chip guarding and personal protective equipment (goggles/shield, gloves, etc). Failure to comply may result in injury to personnel.

WARNING

Wheel drum weighs approximately 90 lb (41 Kg). Use the aid of an assistant to help remove wheel drum. Failure to comply may result in injury to personnel.

WARNING

Wheel drum weighs approximately 90 lb (41 kg). Use the aid of an assistant to help install wheel drum. Failure to comply may result in injury to personnel.

WARNING

Brake shoes may be covered with dust. Breathing this dust may be harmful to your health. Do not used compressed air to clean brake shoes. Wear a filter mask approved for use against brake dust. Failure to comply may result in injury to personnel.

WARNING

Cage spring brake before air chamber is removed or severe injury to personnel will occur.

WARNING

Ensure air chamber is caged prior to installation. Failure to comply may result in injury to personnel.

WARNING

Ensure that tire is totally deflated before removing self-locking nuts. Failure to comply may result in serious injury or death to personnel.

WARNING

Spring brakes must be caged before attempting replacement of a rear axle wheel stud. Failure to comply may result in severe injury to personnel.

WARNING

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

WARNING

Prolonged contact with lubricating oil (MIL-L-2104) may cause a skin rash. Skin and clothing that come in contact with lubricating oil should be thoroughly washed immediately. Saturated clothing should be removed immediately. Areas in which lubricating oil is used should be well ventilated to keep fumes to a minimum. Failure to comply may result in injury to personnel.

WARNING

Hydraulic fluid (MIL-H-5606) is TOXIC. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that come in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

WARNING

Wire rope can become frayed or contain broken wires. Wear heavy leatherpalmed gloves when handling wire rope. Frayed or broken wires can injure hands. Failure to comply may result in injury to personnel.

WARNING

Never let moving wire rope slide through hands, even when wearing gloves. A broken wire could cut through gloves and cut hands.

WARNING SUMMARY (CONT)

WARNING

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

WARNING

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

WARNING

Wear leather gloves at all times when handling winch cable. Do not allow cable to slide through hands even with gloves on. Broken wires may cause injury to personnel.

WARNING

Use extreme caution when working around moving cable. Failure to do so may result in serious injury to personnel.

WARNING

Caution must be exercised while cab is raised. Ensure that locking mechanism is functioning properly before proceeding. Failure to comply may result in death or serious injury to personnel and damage to equipment.

WARNING

Diesel fuel is flammable. Arctic heater components and fuel lines may contain small amounts of fuel. If fuel is spilled, clean up immediately. Failure to comply may result in serious injury or death to personnel.

WARNING

Coolant may be very hot and under pressure from engine operation. Ensure engine is cool before performing maintenance. Failure to comply may result in injury to personnel.

WARNING

Do not remove oil filter while engine is hot. Failure to comply may result in injury to personnel.

WARNING

Sling spreader weighs approximately 200 lbs (91 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Remove all loose equipment from van body. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Van body weighs approximately 3,360 lbs (1525 kgs) empty. Attach a suitable lifting device prior to removal. Failure to comply may result in serious injury or death to personnel.

WARNING

Guide ropes must be attached at opposite corners of van body to aid in controlling van body during removal. Failure to comply may result in serious injury or death to personnel.

WARNING

Center of gravity will change depending on equipment installed in van body. Attach and adjust lifting device so that van body lifts level. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Pod frame weighs approximately 80 lbs (36 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Do not install pod frame on van body for 72 hours after installing blind rivet nuts and spacers. Failure to comply may result in injury to personnel and/or damage to equipment.

WARNING

Goggles and gloves must be worn when working with glass. Failure to comply may result in injury to personnel.

WARNING SUMMARY (CONT)

WARNING

RH door assembly weighs approximately 85 lbs (39 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

LH door assembly weighs approximately 85 lbs (39 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Wear appropriate eye protection when handling fluorescent lamps. Failure to comply may result in injury to personnel.

WARNING

- Heavy objects/loads, such as tool boxes and heavy parts, must always be carried
 on the floor with the weight distributed as equally as possible between left and
 right sides of M1079 van. Failure to comply decreases the stability of the M1079
 van and will increase the likelihood of a rollover.
- Heavy cabinets must always be mounted as low as possible with the weight distributed as equally as possible between left and right sides of M1079 van. Remember to consider the weight of the items that will be stored in the cabinets. Failure to comply decreases the stability of the M1079 van and will increase the likelihood of a rollover.
- Always keep in mind, when placing items inside the M1079 van, that heavier items
 must always be positioned as low as possible and the weight distributed as equally
 as possible between left and right sides of M1079 van. Failure to comply
 decreases the stability of the M1079 van and will increase the likelihood of a
 rollover.

WARNING

Diesel fuel is flammable. Arctic heater components and fuel hoses may contain small amounts of fuel. If fuel is spilled, clean it up immediately. Failure to comply may result in serious injury or death to personnel.

WARNING

Extreme care must be taken when lowering gravel deflector. Coolant hoses could be pulled loose. Failure to comply could result in serious eye injury.

WARNING

- Do not open coolant fill cap if temperature reads above 110°F (43°C). Steam or hot coolant is under pressure. Failure to comply may result in injury to personnel.
- Pressure in reservoir tank must be released before removing cap. Failure to comply may result in injury to personnel.

WARNING

Excess coolant may splash out when hoses are removed from swingfire pump. Wear appropriate eye protection. Failure to comply may result in injury to personnel.

WARNING

Excess coolant may splash out upon removal of hoses on swingfire tube jacket. Ensure proper eye protection is worn. Failure to comply may result in injury to personnel.

WARNING

Excess coolant may splash out upon removal of hoses from swingfire valve. Ensure proper eye protection is worn. Failure to comply may result in injury to personnel.

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.

WARNING

200 amp alternator weighs approximately 70 lbs (32 kgs). The aid of an assistant is required to install 200 amp alternator. Failure to comply may result in injury to personnel.

WARNING

Light Material Handling Crane (LMHC) mast weighs approximately 110 lbs (50 kgs). Attach a suitable lifting device prior to installation. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Light Material Handling Crane (LMHC) boom assembly weighs approximately 150 lbs (68 kgs). Use an assistant when removing LMHC boom assembly. Failure to comply may result in injury to personnel.

WARNING SUMMARY (CONT)

WARNING

Light Material Handling Crane (LMHC) boom weighs approximately 60 lbs (27 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Light Material Handling Crane (LMHC) weighs approximately 250 lbs (114 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel.

WARNING

Use care when removing/installing springs. Springs are under tension and can act as projectiles when released. Failure to comply may result in injury to personnel.

WARNING

Air conditioner weighs approximately 300 lbs (136 kg). Attach a suitable lifting device prior to installation. Failure to comply may result in injury to personnel.

WARNING

Ensure cargo bed is free of equipment and debris, and is not warped or damaged in any way. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

S-280 shelter weighs approximately 1500 lbs (680 kgs) empty. Attach a suitable lifting device prior to installation. Failure to comply may result in serious injury or death to personnel or damage to equipment.

TECHNICAL MANUAL NO. 9-2320-365-20-4

TECHNICAL ORDER NO. 36A12-1B-1095-2-4

HEADQUARTERS
DEPARTMENTS OF THE ARMY
AND THE AIR FORCE

Washington D.C., 17 June 1998

Unit Maintenance Manual M1078 SERIES, 2 1/2-TON, 4 x 4, LIGHT MEDIUM TACTICAL VEHICLES (LMTV) VOLUME NO. 4 OF 5

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TRK, CAR., LMTV, M1078		
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W/O WN	2320-01-354-3385	BHD
TRK, VAN, LMTV, M1079		
W/WN	2320-01-360-1891	BHG
W/O WN	2320-01-354-3384	ВНЕ
TRK, CHAS, LMTV, M1080	2320-01-353-9098	внс
TRK, CAR., LMTV, AIR DROP, M1081		
W/WN	2320-01-360-1899	BHJ
W/O WN	2320-01-355-3064	BHF

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of any way to improve the procedures, please let us know. Mail your letter, DA Form 2082 (Recommended Changes to Publications and Blank Forms), or DA form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-AC-NMLI, Rock Island, III, 61299. A reply will be furnished to you.

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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:

- 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 AUTHORIZATIONLIST (AAL).
- 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. If 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 thru 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.

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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)

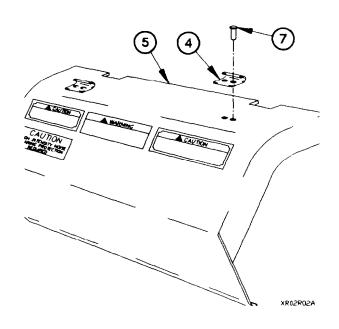
Drill Set, Twist (Item 6, Appendix C)
Tool Kit, Blind Rivet (Item 43, Appendix C)

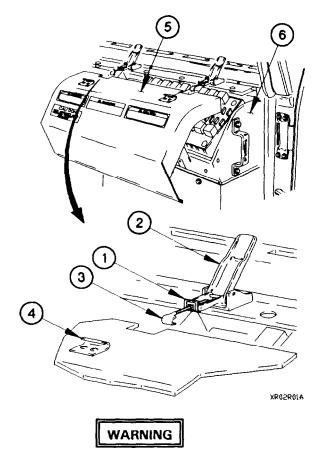
Material/Parts

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).





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).

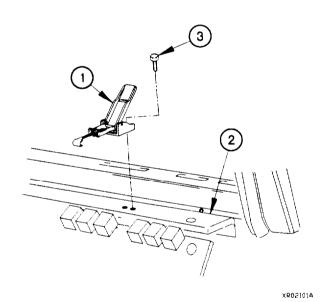
16-2. POWER DISTRIBUTION PANEL (PDP) COVER AND LATCH REPLACEMENT/ ADJUSTMENT (CONT)

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

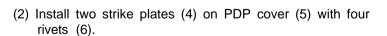
9

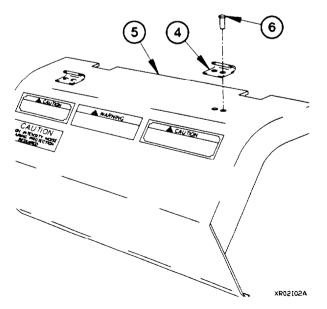
XR02R03A

b. Installation.



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



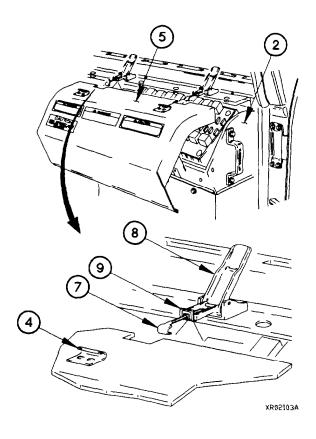


- (3) Position PDP cover (5) on dashboard (2).
- (4) Fasten two latch hooks (7) on two strike plates (4).

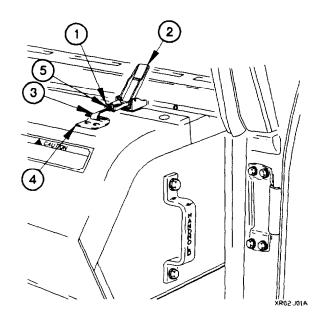
NOTE

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.



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)

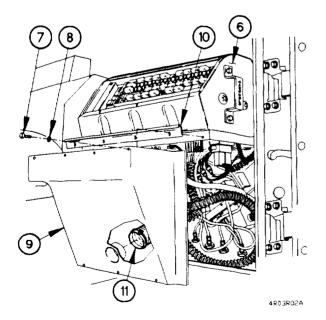
Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C) Socket Set, Socket Wrench (Item 35, Appendix C)

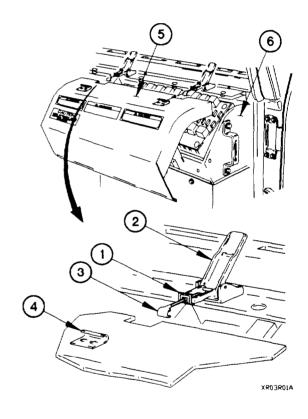
Material/Parts

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.

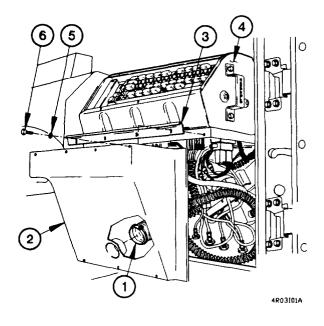
(6) Disconnect air duct hose (11) from kick panel (9).

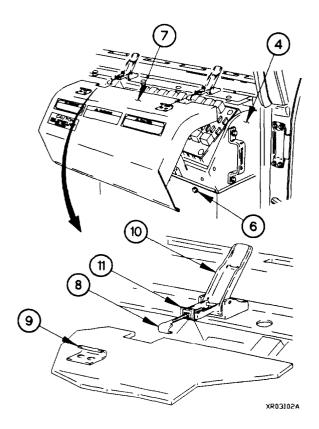
b. Installation.

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).





- (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 Ib-in. (Item 58, Appendix C) Socket Set, Socket Wrench (Item 34, Appendix C) Wrench, Torque, 0-175 Ib-ft (Item 57, Appendix C)

Tools and Special Tools (Cont)

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

Material/Parts

Seal (Item 243, Appendix G)

Personnel Required

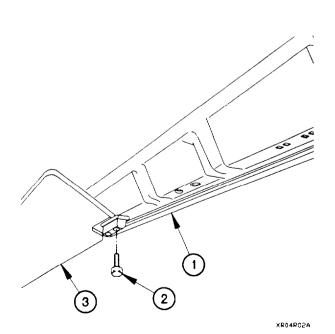
(2)

a. Removal.

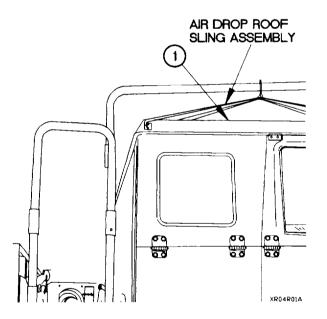
WARNING

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.

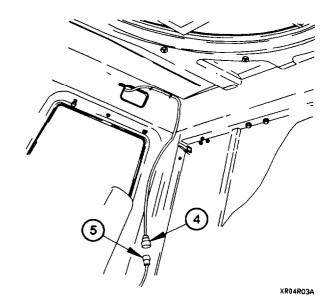
(1) Attach air drop roof sling assembly to cab roof (1).

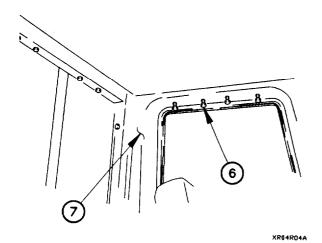


(2) Remove four screws (2) and sun visor (3) from cab roof (1).



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



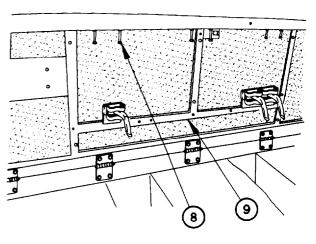


NOTE

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

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

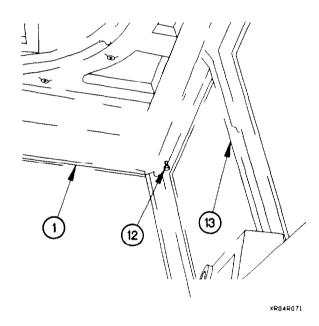
(5) Loosen ten captive screws (8) in cab rear wall (9).



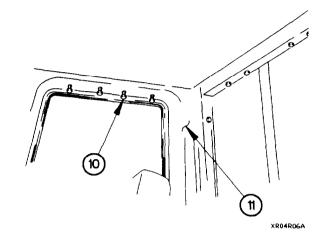
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16-4. M1081 CAB ROOF REPLACEMENT (CONT)

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



- (9) Match mark roof hatch (14) to cab roof (1).
- (10) Remove 12 screws (15), roof hatch (14), and seal (16) from cab roof (1). Discard seal.

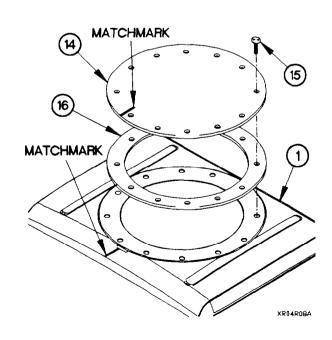


(7) Loosen ten captive screws (12) in cab windshield frame (13).

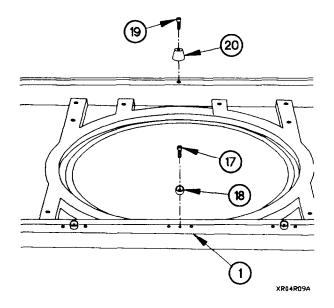
NOTE

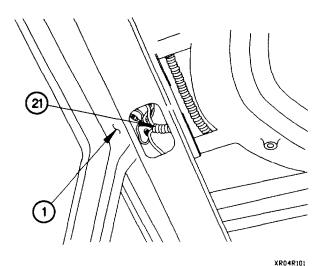
Steps (8) through (10) require the aid of an assistant.

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



- (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).

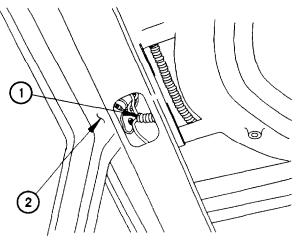




(13) Remove cab clearance lights upper cable assembly (21) from cab roof (1).

b. Installation.

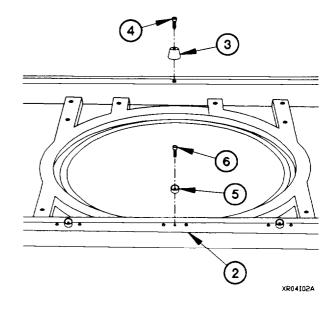
(1) Install cab clearance lights upper cable assembly (1) in cab roof (2).

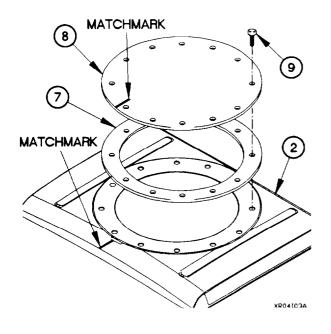


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16-4. M1081 CAB ROOF REPLACEMENT (CONT)

- (2) Position five centering cones (3) on cab roof (2) with five screws (4)
- (3) Position 11 centering cups (5) on cab roof (2) with 11 screws (6).
- (4) Tighten five screws (4) and 11 screws (6) to 62-124 lb-in. (7-14 N•m).





(5) Position seal (7) on cab roof (2).

NOTE

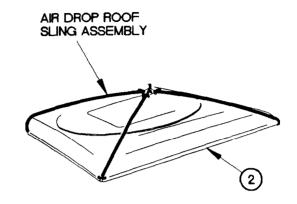
Steps (6) through (10) require the aid of an assistant.

- (6) Position roof hatch (8) on cab roof (2) with matchmarks aligned.
- (7) Position 12 screws (9) in roof hatch (8).
- (8) Tighten 12 screws (9) to 35-41 lb-ft (48-56 N•m).

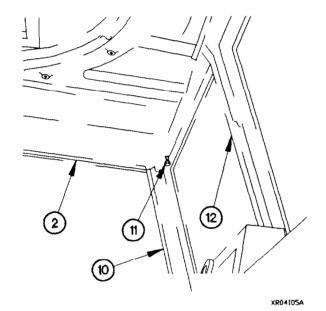
WARNING

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

(9) Attach air drop roof sling assembly to cab roof (2).

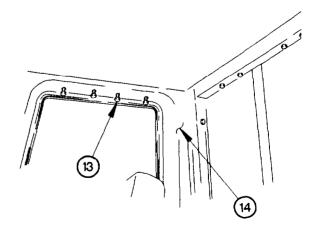


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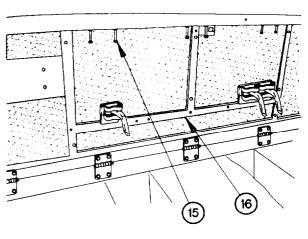
- (10) Position cab roof (2) on cab (10).
- (11) Tighten ten captive screws (11) in cab windshield frame (12).

(12) Tighten four captive screws (13) in right side cab wall (14).

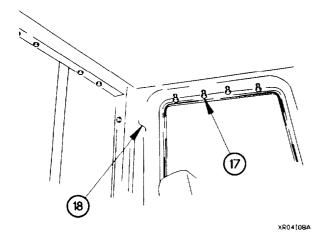


16-4. M1081 CAB ROOF REPLACEMENT (CONT)

(13) Tighten ten captive screws (15) in cab rear wall (16).

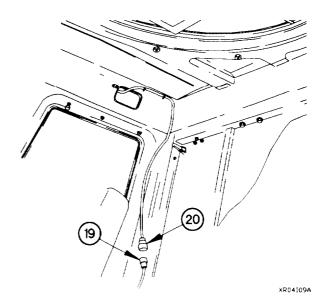


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(14) Tighten four captive screws (17) in left side cab wall (18).

(15) Connect connector J3 (19) to connector P3 (20).

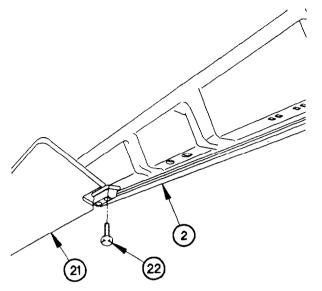


- (16) Position sun visor (21) on cab roof (2) with four screws (22).
- (17) Tighten four screws (22) to 40-49 lb-in. (4-5 Nem).

c. Follow-On Maintenance.

Install cab clearance lights (para 7-31).

End of Task.



16-5. DOOR REPAIR/ADJUSTMENT (ALL MODELS EXCEPT M1081)

This task covers:

- a. Window and Window Regulator Removal
- b. Window and Window Regulator Installation
- c. Door Latch/Lock Disassembly
- d . Door Latch/Lock Assembly

- e. Door Removal
- f . Door Installation
- g. Door Adjustment
- h. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Marker light removed (para 7-31).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C) Screwdriver Attachment, Socket Wrench (Item 49, Appendix B) Socket Set, Socket Wrench (Item 35, Appendix C)

Materials/Parts

Soap, Laundry (Item 68, Appendix D)
Sealing Compound (Item 61, Appendix D)
Rivet, Compression (10) (Item 237, Appendix G)
Grease, Automotive and Artillery (GAA) (Item

23, Appendix D)
Seal, Nonmetallic (Item 253, Appendix G)

Personnel Required

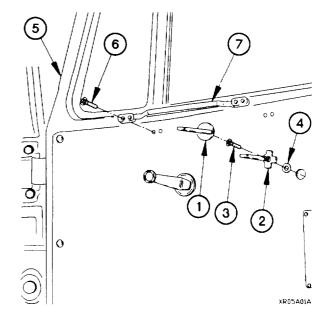
(2)

a. Window and Window Regulator Removal.

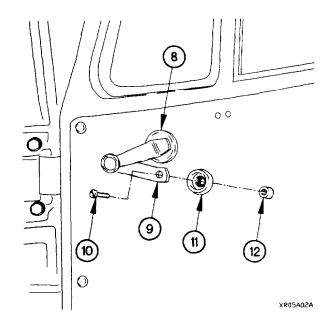
NOTE

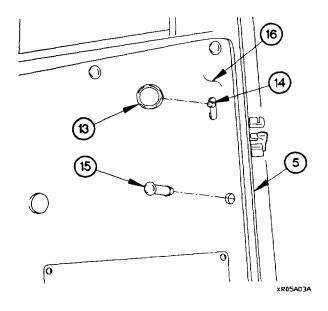
Left and right windows and window regulators are removed the same way. Right side shown.

- (1) Remove cover (1) from door handle (2).
- (2) Remove screw (3), door handle (2), and washer (4) from door (5).
- (3) Remove four screws (6) and door handle (7) from door (5).



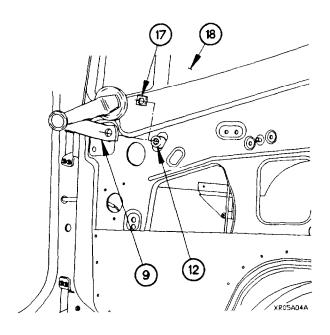
- (4) Raise cover (8) from window crank (9).
- (5) Remove screw (10), window crank (9), and collar (11) from window regulator (12).





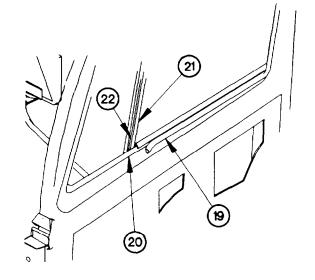
- (6) Remove knob (13) from lock stud (14).
- (7) Remove ten rivets (15) from door lining (16).
- (8) Remove door lining (16) from door (5).

- (9) Remove resilient mount (17) from window regulator (12).
- (10) Install window crank (9) on window regulator (12).
- (11) Lower window (18) completely down.

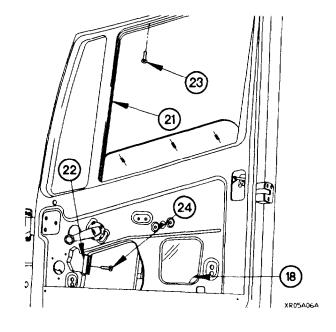


16-5. DOOR REPAIR/ADJUSTMENT (ALL MODELS EXCEPT M1081) (CONT)

- (12) Remove inner edge seal (19) from window sill (20).
- (13) Remove rubber sealing strip (21) from upper portion of window channel (22).

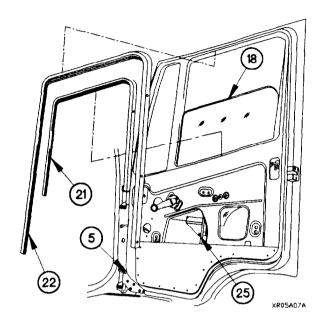


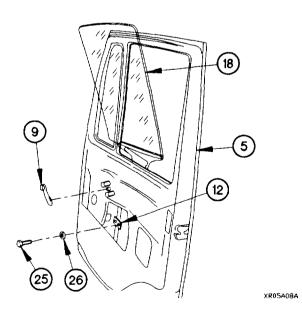
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- (14) Remove six screws (23) from upper portion of window channel (22).
- (15) Install rubber sealing strip (21) so that window (18) can be raised.
- (16) Raise window (18) enough to access two lower screws (24).
- (17) Remove two screws (24) from bottom of window channel (22).

- (18) Lower window (18) completely down.
- (19) Remove window channel (22) and rubber sealing strip (21) from door (5).
- (20) Raise window (18) enough to access two screws (25) at bottom of window.





WARNING

Use care when removing window. Do not force window. Window may shatter. Failure to comply may result in injury to personnel or damage to equipment.

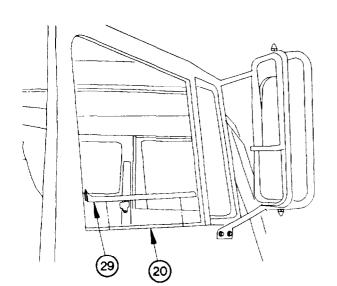
NOTE

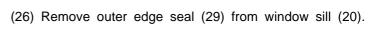
Steps (21) and (22) require the aid of an assistant.

- (21) Support window (18) and remove two screws (25) and washers (26) from window regulator (12).
- (22) Remove window (18) by holding window at a slight angle and lifting upward out of door (5).
- (23) Remove window crank (9) from window regulator (12).

16-5. DOOR REPAIR/ADJUSTMENT (ALL MODELS EXCEPT M1081) (CONT)

- (24) Remove four screws (27) and washers (28) from window regulator (12).
- (25) Remove window regulator (12) from door (5).





(12)

(5)



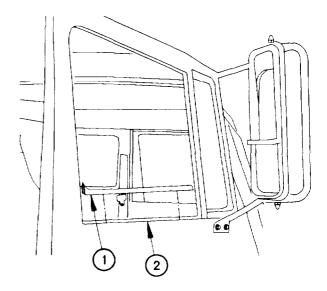
b. Window and Window Regulator Installation.

NOTE

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Left and right windows and window regulators are installed the same way. Right side shown.

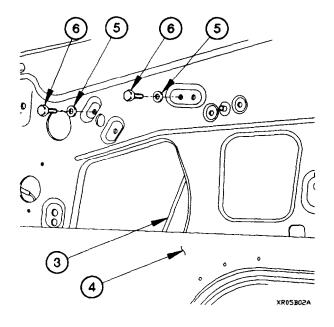
(1) Install outer edge seal (1) on window sill (2).

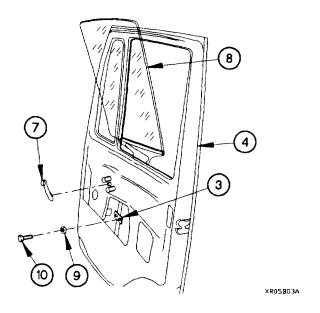


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- (2) Position window regulator (3) in door (4).
- (3) Align holes in window regulator (3) and mounting holes of door (4).
- (4) Position four washers (5) and screws (6) in window regulator (3).
- (5) Tighten four screws (6) to 70-85 lb-in. (8-10 N•m).





(6) Position window crank (7) on window regulator (3).

WARNING

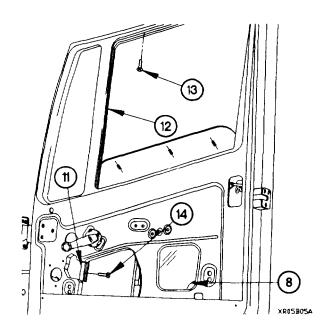
Use care when installing window. Do not force window or window may shatter. Failure to comply may result in injury to personnel or damage to equipment.

NOTE

Steps (7) and (8) require the aid of an assistant.

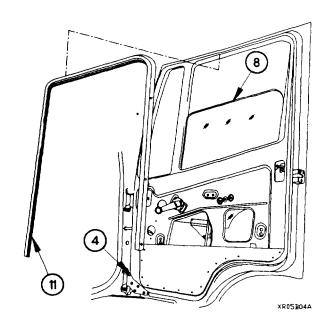
- (7) Position window (8) in door (4) at a slight angle.
- (8) Support window (8) and install two washers (9) and screws (10) in window regulator (3).
- (9) Lower window (8) until completely down.

(10) Position window channel (11) over window (8) from inside of door (4).

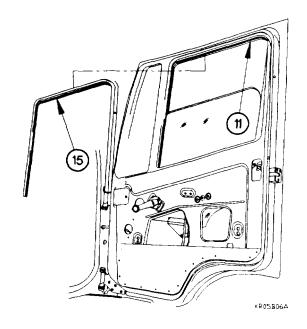




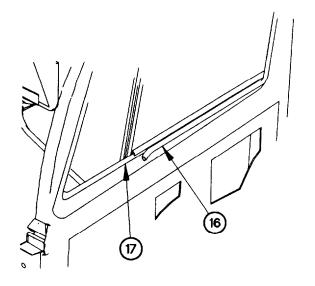
- Use a solution of soap and water to ease installation of rubber sealing strip.
- It may be necessary to roll window up and down during installation of rubber sealing strip.
- (15) Install rubber sealing strip (15) around upper portion of window channel (11).



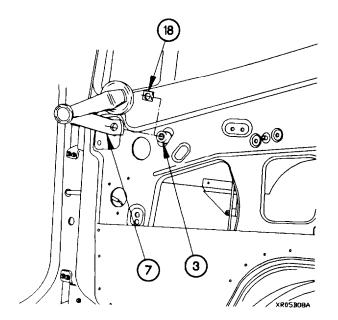
- (11) Install window channel (11) on upper door frame (12) with six screws (13).
- (12) Raise window (8) for access to bottom of window channel (11).
- (13) Install two screws (14) in bottom of window channel (11).
- (14) Lower window (8) until completely down.



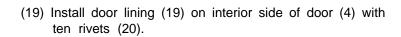
(16) Install inner edge seal (16) on window sill (17).

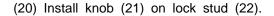


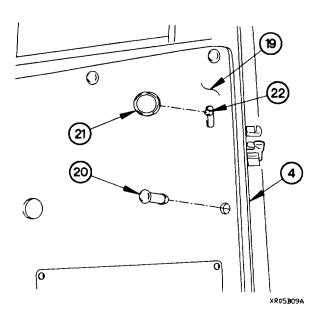
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- (17) Remove window crank (7) from window regulator (3).
- (18) Install resilient mount (18) on window regulator (3).

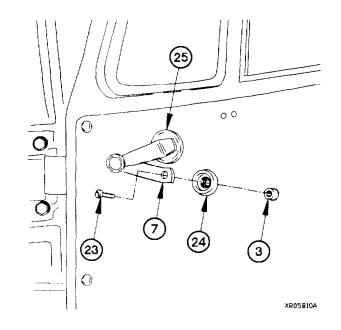


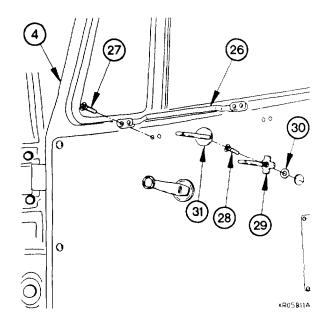




WARNING

- (21) Apply sealing compound to threads of screw (23).
- (22) Position collar (24) and window crank (7) on window regulator (3) with screw (23).
- (23) Tighten screw (23) to 50-55 lb-in. (6 N•m).
- (24) Install cover (25) on window crank (7).





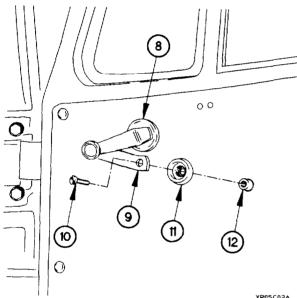
- (25) Position door handle (26) on door (4) with four screws (27).
- (26) Tighten four screws (27) to 22-28 lb-in. (2-3 N•m).
- (27) Apply sealing compound to threads of screw (28).
- (28) Position door handle (29) on door (4) with washer (30) and screw (28).
- (29) Tighten screw (28) to 50-55 lb-in. (6 N•m).
- (30) Install cover (31) on door handle (29).

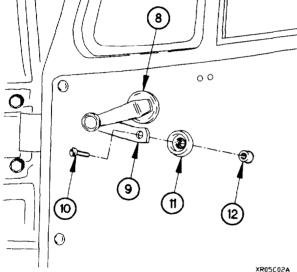
c. Door Latch/Lock Disassembly.

NOTE

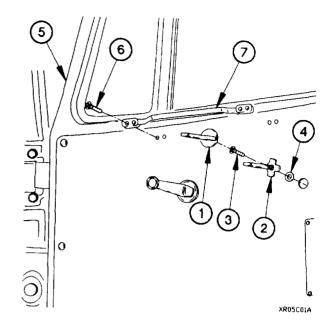
Left and right door latch/lock assemblies are disassembled the same way. Right door latch/lock assembly shown.

- (1) Remove cover (1) from door handle (2).
- (2) Remove screw (3), door handle (2), and washer (4) from door (5).
- (3) Remove four screws (6) and door handle (7) from door

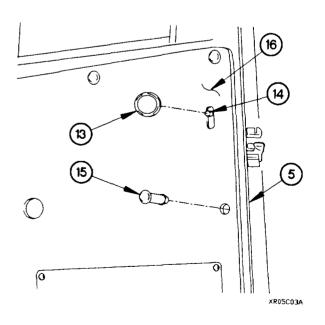




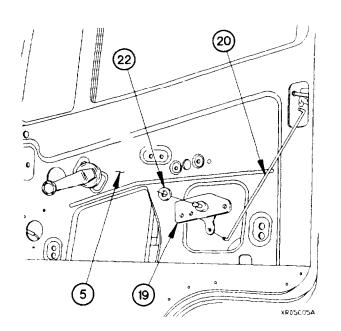
- (6) Remove knob (13) from lock stud (14).
- (7) Remove ten rivets (15) from door lining (16).
- (8) Remove door lining (16) from door (5).

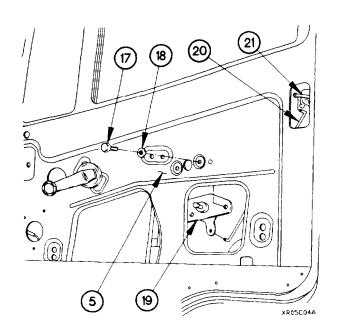


- (4) Raise cover (8) from window crank (9).
- (5) Remove screw (10), window crank (9), and collar (11) from window regulator (12).



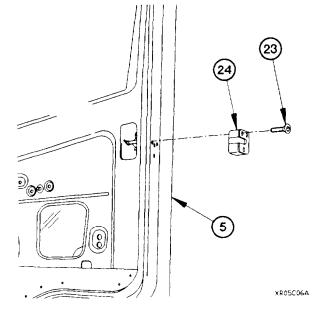
- (9) Remove two screws (17), washers (18), and actuator assembly (19) from door (5).
- (10) Disconnect upper end of actuator control rod (20) from release assembly (21).





(11) Remove actuator control rod (20), actuator assembly (19), and seal (22) from door (5). Discard seal.

(12) Remove three screws (23) and latch assembly (24) from door (5).



NOTE

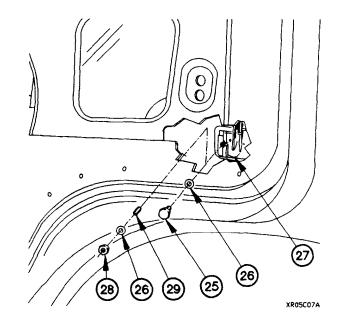
Perform step (13) on vehicle serial numbers 0001 through 3091 that have not had the handle/lock assembly replaced previously.

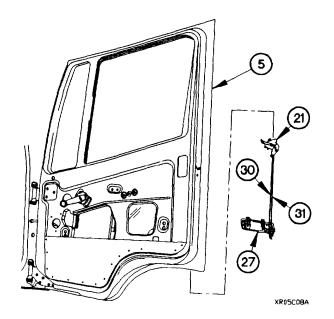
(13) Remove screw (25) and washer (26) from handle/lock assembly (27).

NOTE

Perform step (14) on vehicle serial numbers 3092 and higher serial numbers, and vehicles that have had the handle/lock assembly replaced previously.

(14) Remove nut (28), washer (26), and setscrew (29) from handle/lock assembly (27).





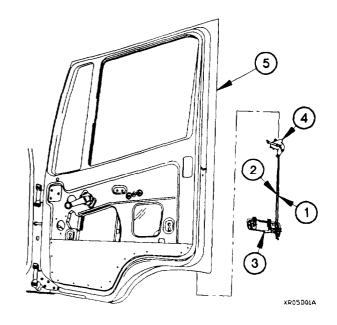
- (15) Push handle/lock assembly (27) toward front of vehicle until rear of handle/lock assembly is released from door (5).
- (16) Remove handle/lock assembly (27), control rods (30 and 31), and release assembly (21) from handle/lock opening.

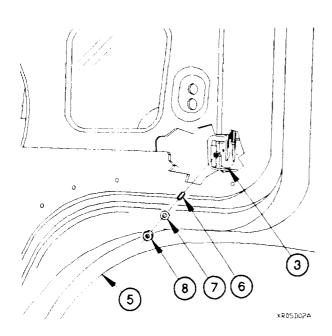
d. Door Latch/Lock Assembly.

NOTE

Left and right door latch/lock assemblies are assembled the same way. Right door latch/lock assembly shown.

- (1) Attach control rods (1 and 2), between handle/lock assembly (3), and release assembly (4).
- (2) Install release assembly (4) and two control rods (1 and 2), upward through handle/lock assembly opening in door (5).
- (3) Seat handle/lock assembly (3) into door opening by pushing handle/lock assembly toward front of vehicle until rear of handle/lock assembly can enter opening, then push handle/lock assembly toward rear until handle/lock assembly is fully seated.

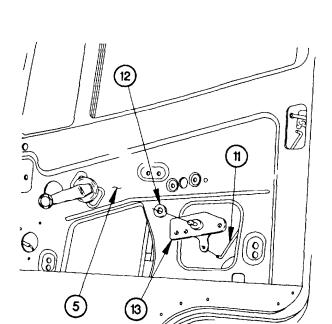


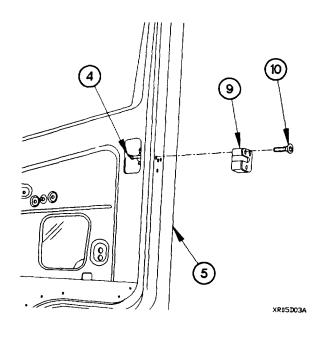


WARNING

- (4) Apply sealing compound to threads of setscrew (6).
- (5) Position handle/lock assembly (3) on door (5) with setscrew (6).
- (6) Tighten setscrew (6) to 39-59 lb-in. (4-7 N•m).
- (7) Position washer (7) and nut (8) on setscrew (6).
- (8) Tighten nut (8) to 39-59 lb-in. (4-7 N•m).

- (9) Position latch assembly (9) and release assembly (4) on door (5) with three screws (10).
- (10) Tighten three screws (10) to 70-85 lb-in. (8-10 N•m).



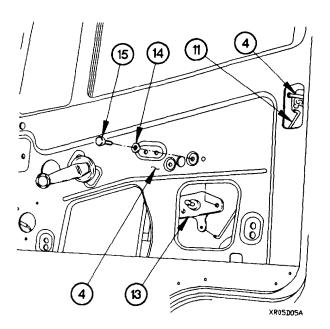


- (11) Install actuator control rod (11) and seal (12) on actuator assembly (13).
- (12) Install actuator assembly (13) in door (5).

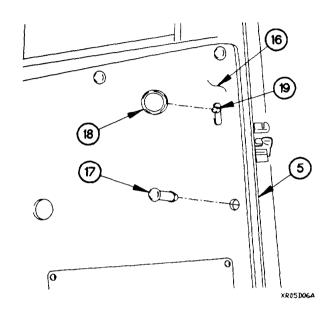
(13) Attach upper end of actuator control rod (11) to release assembly (4).

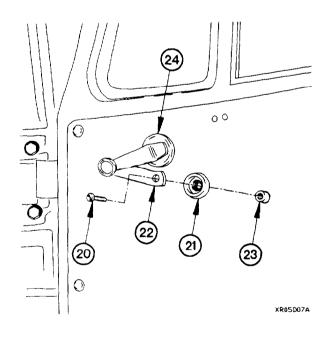
XR05D041

- (14) Position two washers (14) and screws (15) in actuator assembly (13).
- (15) Tighten two screws (15) to 49-60 lb-in. (5-7 N•m).



- (16) Install door lining (16) on interior side of door (5) with ten rivets (17).
- (17) Install knob (18) on lock stud (19).





WARNING

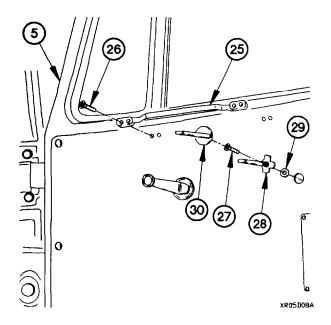
- (18) Apply sealing compound to threads of screw (20).
- (19) Position collar (21) and window crank (22) on window regulator (23) with screw (20).
- (20) Tighten screw (20) to 50-55 lb-in. (6 N•m).
- (21) Install cover (24) on window crank (22).

- (22) Position door handle (25) on door (5) with four screws (26).
- (23) Tighten four screws (26) to 22-28 lb-in. (2-3 N•m).

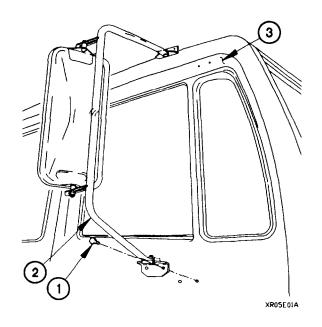
WARNING

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.

- (24) Apply sealing compound to threads of screw (27).
- (25) Position door handle (28) on door (5) with washer (29) and screw (27).
- (26) Tighten screw (27) to 50-55 lb-in. (6 N•m).
- (27) Install cover (30) on door handle (28).



e. Door Removal.

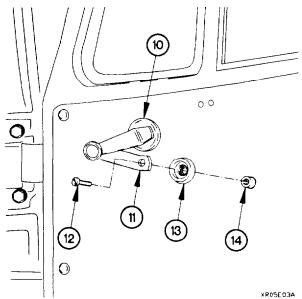


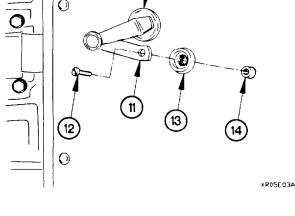
NOTE

Both doors are removed the same way. Right side door shown.

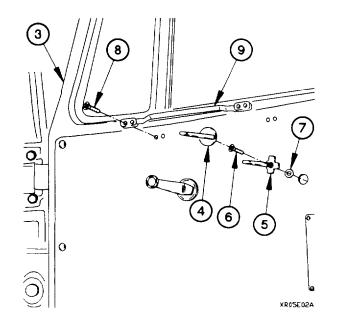
(1) Remove four screws (1) and mirror assembly (2) from door (3).

- (2) Remove cover (4) from door handle (5).
- (3) Remove screw (6), door handle (5), and washer (7) from door (3).
- (4) Remove four screws (8) and door handle (9) from door (3).

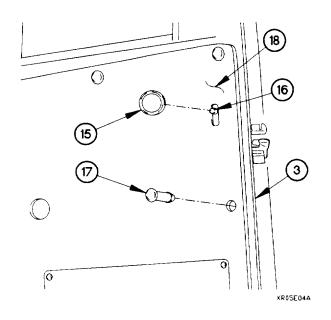




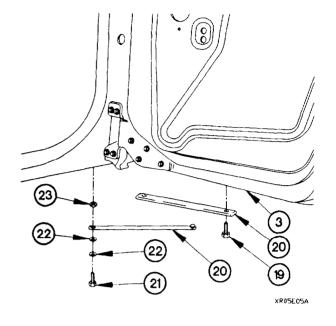
- (7) Remove knob (15) from lock stud (16).
- (8) Remove ten rivets (17) from door lining (18).
- (9) Remove door lining (18) from door (3).

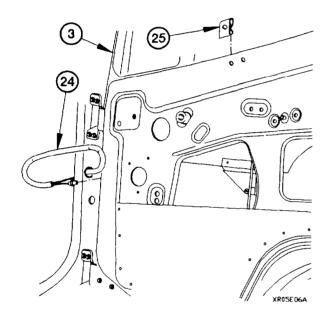


- (5) Raise cover (10) from window crank (11).
- (6) Remove screw (12), window crank (11), and collar (13) from window regulator (14).



- (10) Remove two screws (19) and door arrestor assembly (20) from bottom of door (3).
- (11) Remove screw (21), two spring washers (22), door arrestor assembly (20), and washer (23) from cab.



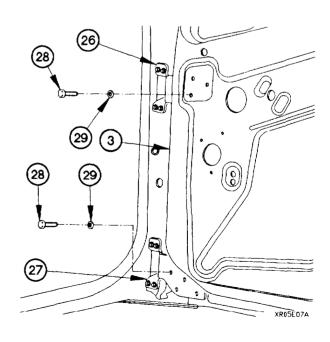


NOTE

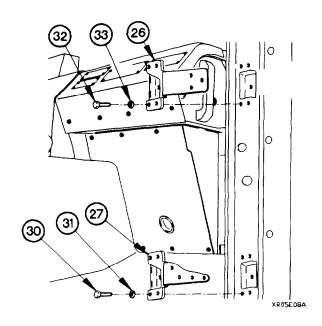
Steps (14) through (16) require the aid of an assistant.

- (14) Lift door (3) enough to take weight off hinges (26 and 27).
- (15) Remove six screws (28) and washers (29) from hinges (26 and 27).
- (16) Remove door (3) from cab.

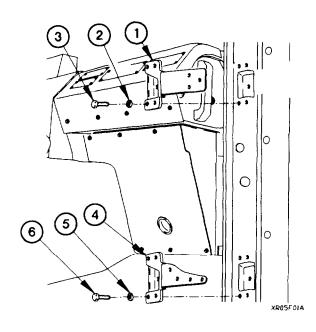
- (12) Remove wiring harness (24) from door (3) by pulling through access hole in forward edge of door (3).
- (13) Remove four clip nuts (25) from door (3).



- (17) Remove five screws (30), washers (31), and hinge (27) from cab.
- (18) Remove five screws (32), washers (33), and hinge (26) from cab.



f. Door Installation.



NOTE

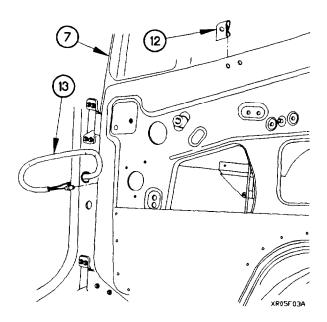
Both doors are installed the same way. Right side door shown.

- (1) Position hinge (1) on cab with five washers (2) and screws (3).
- (2) Position hinge (4) on cab with five washers (5) and screws (6).

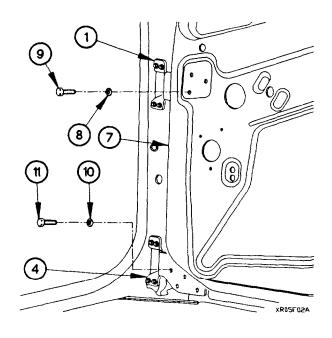
NOTE

Step (3) requires the aid of an assistant.

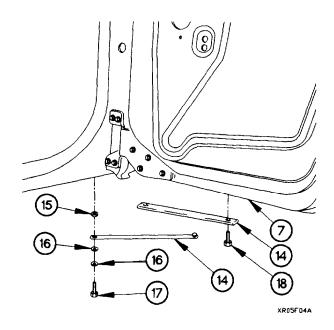
- (3) Position door (7) on cab with hinge (1) in slot in forward edge of door and bolt holes aligned with openings in door.
- (4) Position door (7) on hinge (1) with three washers (8) and screws (9).
- (5) Position door (7) on hinge (4) with three washers (10) and screws (11).
- (6) Adjust door (7) so that gap between door and cab is approximately equal all around.
- (7) Tighten three screws (9 and 11) one-half turn.
- (8) Open, close, and open door (7) to ensure correct operation.
- (9) Tighten three screws (9 and 11) to 22-26 lb-ft (30-35 $N \bullet m$).
- (10) Apply grease to hinges (1 and 4).



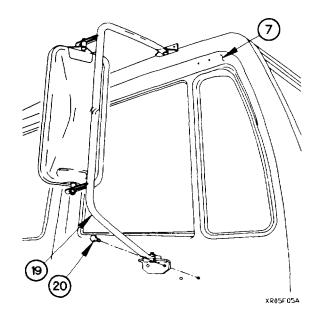
- (13) Install door arrestor assembly (14) on cab with washer (15), two spring washers (16), and screw (17).
- (14) Install door arrestor assembly (14) on bottom of door(7) with two screws (18).



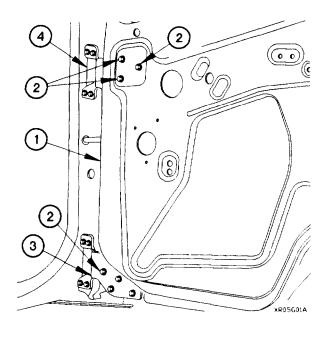
- (11) Install four clip nuts (12) on door (7).
- (12) Install wiring harness (13) through access hole in forward edge of door (7).



- (15) Position mirror assembly (19) on door (7) with four screws (20).
- (16) Tighten four screws (20) to 84-96 lb-in. (9-11 N•m).



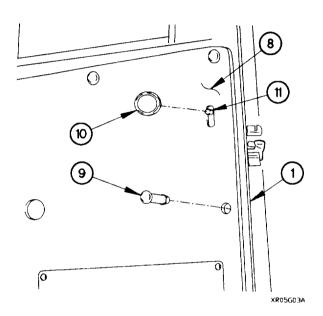
g. Door Adjustment.



NOTE

- Steps (1) and (2) require the aid of an assistant.
- Loosen door hinge screws only enough to allow small adjusting movements of door.
- (1) Support door (1) and loosen six screws (2) on bottom hinge (3) and top hinge (4).
- (2) Adjust door (1) so that gap between door (1) and cab is approximately equal all around.
- (3) Open, close, and open door (1) to ensure correct operation.
- (4) Tighten six screws (2) on top hinge (4) and bottom hinge (3) to 22-26 lb-ft (30-35 N•m).

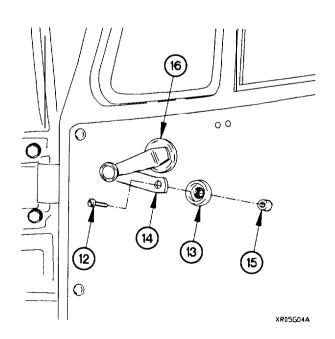
- (5) Loosen three screws (5) on latch assembly (6) and adjust so latch assembly is centered on strike catch (7).
- (6) Tighten three screws (5) to 70-85 lb-in. (8-10 N•m).
- (7) Open and close door (1) to ensure correct operation.



- (8) Install door lining (8) on interior side of door (1) with ten rivets (9).
- (9) Install knob (10) on lock stud (11).

WARNING

- (10) Apply sealing compound to threads of screw (12).
- (11) Position collar (13) and window crank (14) on window regulator (15) with screw (12).
- (12) Tighten screw (12) to 50-55 lb-in. (6 N•m).
- (13) Install cover (16) on window crank (14).

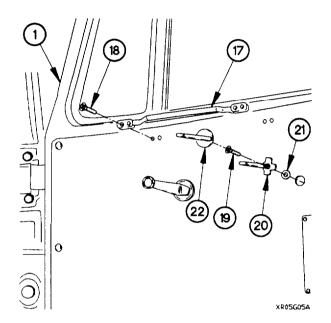


- (14) Position door handle (17) on door (1) with four screws (18).
- (15) Tighten four screws (18) to 22-28 lb-in. (2-3 Nem).

WARNING

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- (16) Apply sealing compound to threads of screw (19).
- (17) Position door handle (20) on door (1) with washer (21) and screw (19).
- (18) Tighten screw (19) to 50-55 lb-in. (6 N•m).
- (19) Install cover (22) on door handle (20).



h. Follow-On Maintenance.

- (1) Install marker light (para 7-31).
- (2) Clean all grease or oil from door.
- (3) Clean window glass.

End of Task.

This task covers:

- a. Window and Window Regulator Removal
- b. Window and Window Regulator Installation
- c. Door Latch/Lock Disassembly
- d. Door Latch/Lock Assembly
- e. Door Upper-Half Removal

- f. Door Upper-Half Installation
- g. Door Lower-Half Removal
- h. Door Lower-Half Installation
- i. Door Adjustment
- j. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Marker light removed (para 7-31). Upper door-half removed (for lower door-half removal only).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C) Socket Set, Socket Wrench (Item 35, Appendix C)

Tools and Special Tools (Cont)

Screwdriver Attachment, Socket Wrench (Item 49, Appendix B)

Materials/Parts

Sealing Compound (Item 61, Appendix D)
Grease, Automotive and Artillery (GAA) (Item 23, Appendix D)

Seal, Nonmetallic (Item 253, Appendix G)

Personnel Required

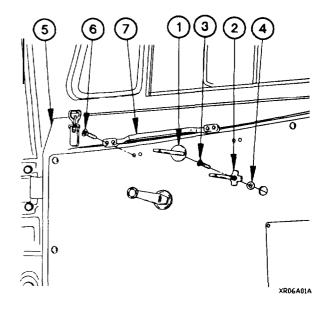
(2)

a. Window and Window Regulator Removal.

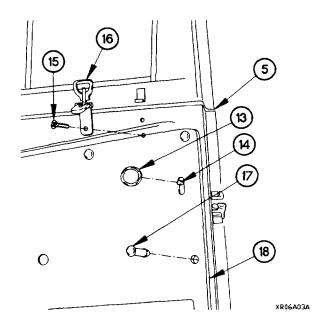
NOTE

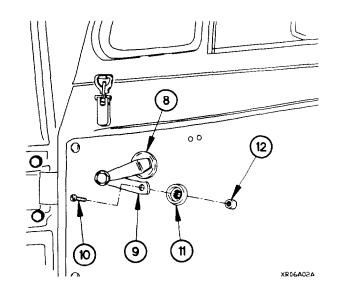
Left and right windows and window regulators are removed the same way. Right side shown.

- (1) Remove cover (1) from door handle (2).
- (2) Remove screw (3), door handle (2), and washer (4) from door (5).
- (3) Remove four screws (6) and handle (7) from door (5).



- (4) Raise cover (8) from window crank (9).
- (5) Remove screw (10), window crank (9), and collar (11) from window regulator (12).

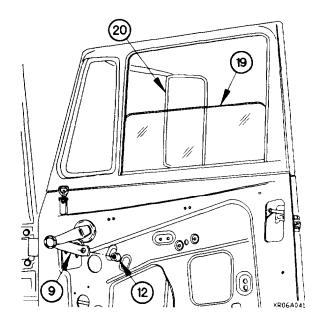




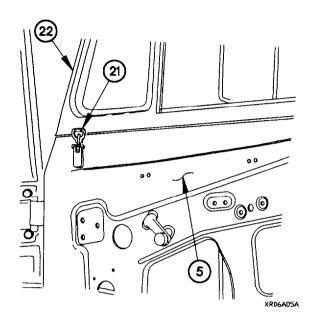
- (6) Remove knob (13) from lock stud (14).
- (7) Remove two screws (15) and latch (16) from door (5).
- (8) Remove 12 rivets (17) from door lining (18).
- (9) Remove door lining (18) from door (5).

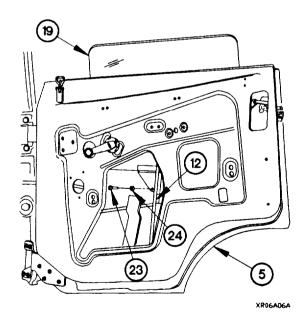


- (11) Lower window (19) until completely down.
- (12) Fold in rear view mirror (20).



- (13) Unlatch window frame latch (21) at front of door (5).
- (14) Fold window frame (22) down.





(15) Raise window (19) enough to access two screws (23) at bottom of window.

WARNING

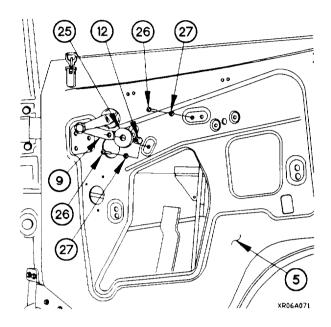
Use care when removing window. Do not force window, or window may shatter. Failure to comply may result in injury to personnel or damage to equipment.

NOTE

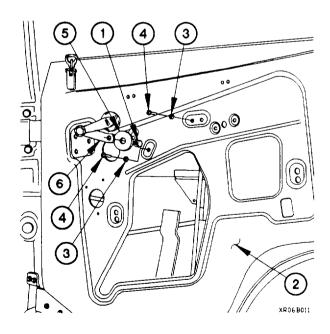
Step (16) requires the aid of an assistant.

- (16) Support window (19) and remove two screws (23) and washers (24) from window regulator (12).
- (17) Remove window (19) from door (5).

- (18) Remove window crank (9) and resilient mount (25) from window regulator (12).
- (19) Remove four screws (26) and washers (27) from window regulator (12).
- (20) Remove window regulator (12) from door (5).



b. Window and Window Regulator Installation.



NOTE

Left and right windows and window regulators are installed the same way. Right side shown.

- (1) Position window regulator (1) in door (2).
- (2) Align holes in window regulator (1) and mounting holes in door (2)
- (3) Position four washers (3) and screws (4) in window regulator (1).
- (4) Tighten four screws (4) to 70-85 lb-in. (8-10 N•m).
- (5) Install resilient mount (5) and window crank (6) on window regulator (1).

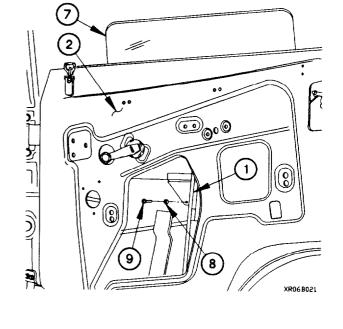
WARNING

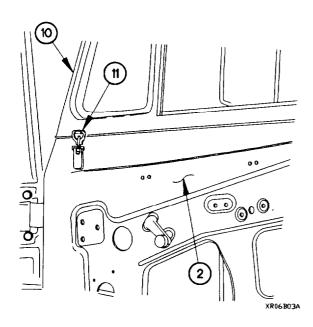
Use care when installing window. Do not force window, or window may shatter. Failure to comply may result in injury to personnel.

NOTE

Steps (6) and (7) require the aid of an assistant.

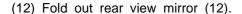
- (6) Position window (7) in door (2).
- (7) Support window (7) and install two washers (8) and screws (9) in window regulator (1).
- (8) Lower window (7) until completely down.

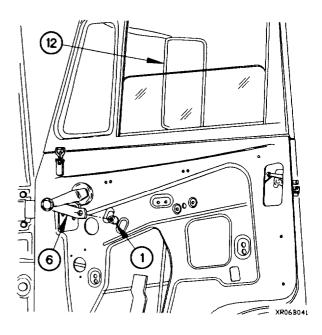




- (9) Raise window frame (10) to vertical position.
- (10) Latch window frame latch (11) at front of door (2).



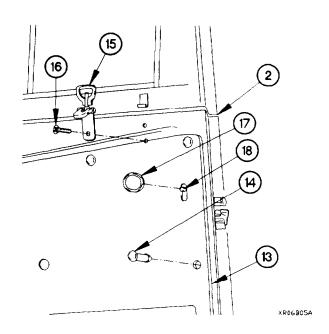


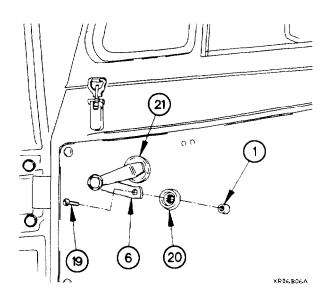


NOTE

Position door lining inside of strip at bottom of door.

- (13) Position door lining (13) on door (2).
- (14) Install 12 rivets (14) in door lining (13).
- (15) Position latch (15) on door (2) with two screws (16).
- (16) Tighten two screws (16) to 65-121 lb-in. (10-14 N•m).
- (17) Install knob (17) on lock stud (18).





WARNING

- (18) Apply sealing compound to threads of screw (19).
- (19) Position collar (20) and window crank (6) on window regulator (1) with screw (19).
- (20) Tighten screw (19) to 50-55 lb-in. (6 N•m).
- (21) Install cover (21) on window crank (6).

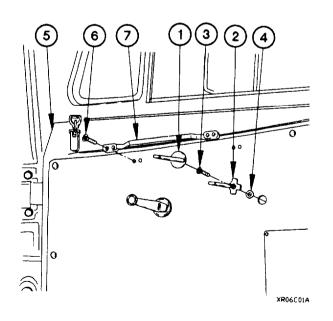
- (22) Position handle (22) on door (2) with four screws (23).
- (23) Tighten four screws (23) to 22-28 lb-in. (2-3 N•m).

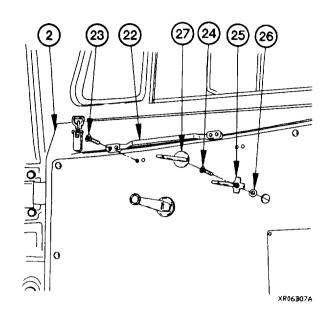
WARNING

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.

- (24) Apply sealing compound to threads of screw (24).
- (25) Position door handle (25) on door (2) with washer (26) and screw (24).
- (26) Tighten screw (24) to 50-55 lb-in. (6 N•m).
- (27) Install cover (27) on door handle (25).

c. Door Latch/Lock Disassembly.



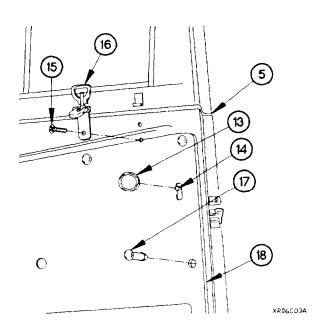


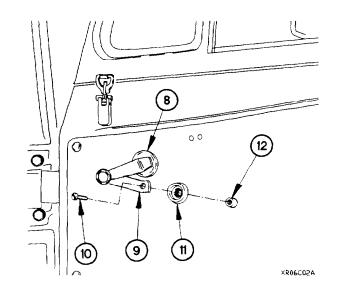
NOTE

Both latch/lock assemblies are removed the same way. Right side shown.

- (1) Remove cover (1) from door handle (2).
- (2) Remove screw (3), door handle (2), and washer (4) from door (5).
- (3) Remove four screws (6) and handle (7) from door (5).

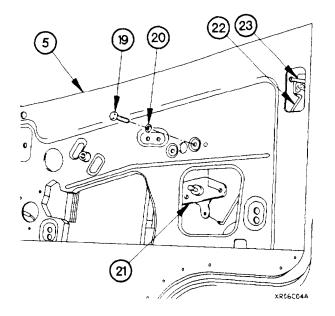
- (4) Raise cover (8) from window crank (9).
- (5) Remove screw (10), window crank (9), and collar (11) from window regulator (12).



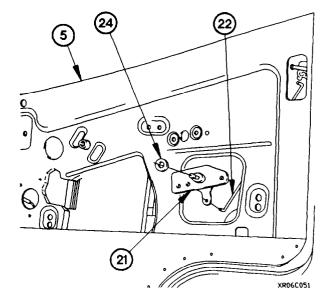


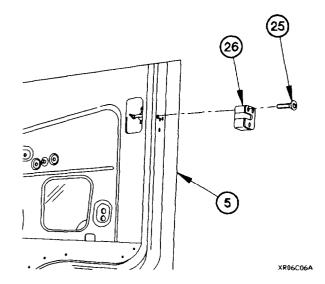
- (6) Remove knob (13) from lock stud (15).
- (7) Remove two screws (15) and latch (16) from door (5).
- (8) Remove 12 rivets (17) from door lining (18).
- (9) Remove door lining (18) from door (5).

- (10) Remove two screws (19), washers (20), and actuator assembly (21) from door (5).
- (11) Disconnect upper end of actuator control rod (22) from release assembly (23).



(12) Remove actuator control rod (22), actuator assembly (21), and seal (24) from door (5). Discard seal.





(13) Remove three screws (25) and latch assembly (26) from door (5).

NOTE

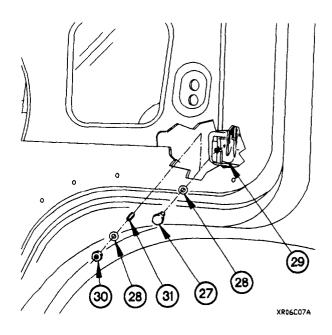
Perform step (14) on vehicle serial numbers 0001 through 3091 that have not had the handle/lock assembly replaced previously.

(14) Remove screw (27) and washer (28) from handle/lock assembly (29).

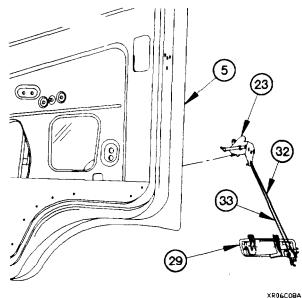
NOTE

Perform step (15) on vehicle serial numbers 3092 and higher serial numbers, and vehicles that have had the handle/lock assembly replaced previously.

(15) Remove nut (30), washer (28), and setscrew (31) from handle/lock assembly (29).

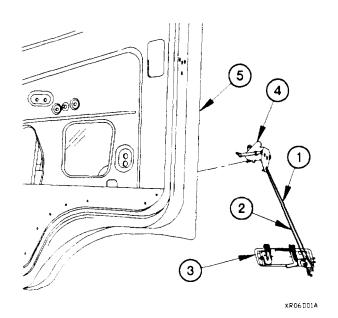


- (16) Push handle/lock (29) toward front of vehicle until rear of handle/lock assembly is released from door (5).
- (17) Remove handle/lock (29), two control rods (32 and 33), and release assembly (23) out through handle/lock opening.



XKUBCU8

d. Door Latch/Lock Assembly.



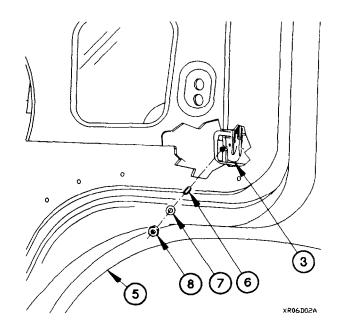
NOTE

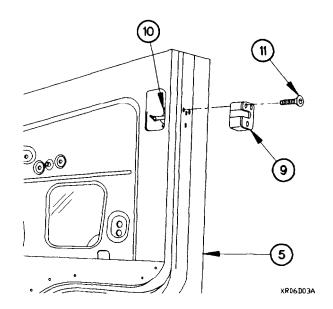
Both latch/lock assemblies are installed the same way. Right side shown.

- (1) Attach two control rods (1 and 2) between handle/lock assembly (3) and release assembly (4).
- (2) Insert release assembly (4) and two control rods (1 and 2) upward through handle/lock assembly (3) opening in door (5).
- (3) Seat handle/lock assembly (3) into door opening by pushing handle/lock assembly toward front of vehicle until rear of handle/lock assembly can enter opening, then push handle/lock assembly toward rear until handle/lock assembly is fully seated.

WARNING

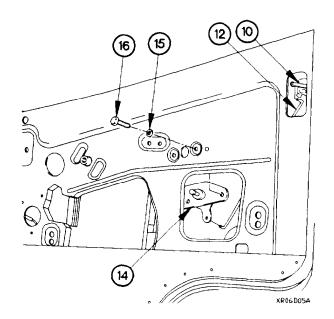
- (4) Apply sealing compound to threads of setscrew (6).
- (5) Position handle/lock assembly (3) on door (5) with setscrew (6).
- (6) Tighten setscrew (6) to 70-85 lb-in. (8-10 N•m).
- (7) Position washer (7) and nut (8) on setscrew (6).
- (8) Tighten nut (8) to 70-85 lb-in. (8-10 N•m).





- (9) Position latch assembly (9) and release assembly (10) on door (5) with three screws (11).
- (10) Tighten three screws (11) to 70-85 lb-in. (8-10 Nom).

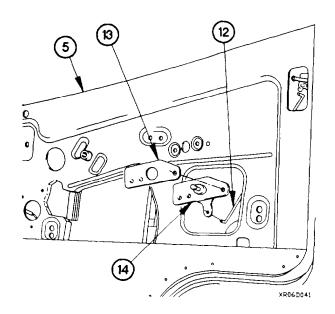
- (11) Install actuator control rod (12) and seal (13) on actuator assembly (14).
- (12) Insert actuator assembly (14) in door (5).



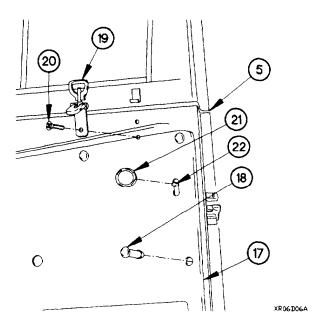
NOTE

Ensure door lining fits inside of strip at bottom of door.

- (16) Position door lining (17) on door (5).
- (17) Install 12 rivets (18) in door lining (17).
- (18) Position latch (19) on door (5) with two screws (20).
- (19) Tighten two screws (20) to 65-121 lb-in. (10-14 $N \bullet m$).
- (20) Install knob (21) on lock stud (22).

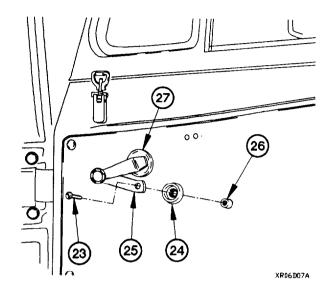


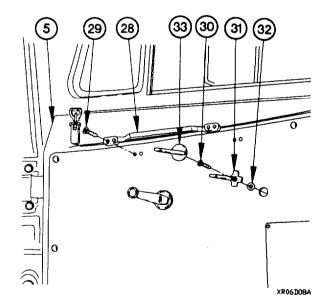
- (13) Attach upper end of actuator control rod (12) to release assembly (10).
- (14) Position two washers (15) and screws (16) in actuator assembly (14).
- (15) Tighten two screws (16) to 49-60 lb-in. (5-7 N•m).



WARNING

- (21) Apply sealing compound to threads of screw (23).
- (22) Position collar (24) and window crank (25) on window regulator (26) with screw (23).
- (23) Tighten screw (23) to 50-55 lb-in. (6 N•m).
- (24) Install cover (27) on window crank (25).





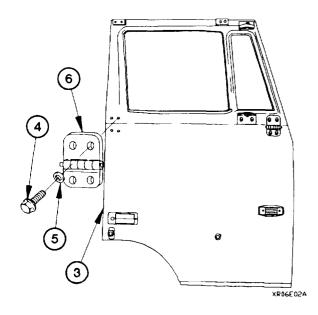
- (25) Position handle (28) on door (5) with four screws (29).
- (26) Tighten four screws (29) to 22-28 lb-in. (2-3 N•m).
- (27) Apply sealing compound to threads of screw (30).
- (28) Position door handle (31) on door (5) with washer (32) and screw (30).
- (29) Tighten screw (30) to 50-55 lb-in. (6 N•m).
- (30) Install cover (33) on door handle (31).

e. Door Upper-Half Removal.

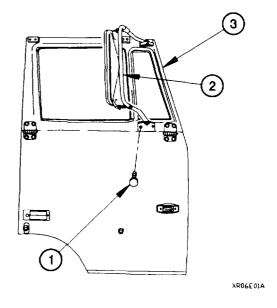
NOTE

Left and right door upper-halves are removed the same way. Right side shown.

(1) Remove four screws (1) and mirror assembly (2) from door upper-half (3).



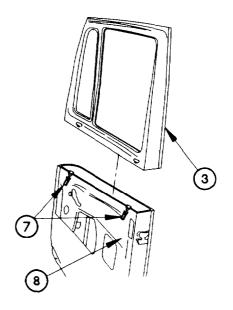
(3) Unlatch two latches (7) on door lower-half (8) and remove door upper-half (3).



NOTE

The hinges are different. Note position of each hinge.

(2) Remove eight bolts (4), washers (5) and two hinges (6) from door (3).



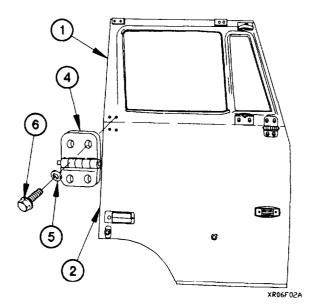
XR06E03A

f. Door Upper-Half Installation.

NOTE

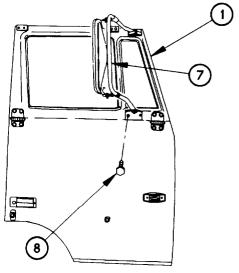
Left and right door upper-halves are installed the same way. Right side shown.

(1) Install door upper-half (1) on door lower-half (2) with two latches (3).



- 3
- XR06F0LA
- (2) Position two hinges (4) on door upper-half (1) and door lower-half (2) with eight washers (5) and screws (6).
- (3) Tighten eight screws (6) to 22-28 lb-ft (30-38 N•m).

- (4) Position mirror assembly (7) on door upper-half (1) with four screws (8).
- (5) Tighten four screws (8) to 84-96 lb-in. (9-11 N•m).



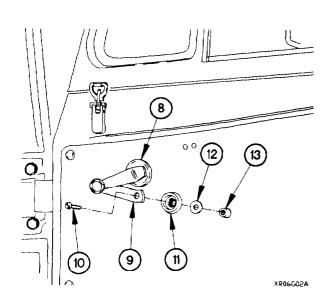
XR06F03A

g. Door Lower-Half Removal.

NOTE

Left and right door lower-halves are removed the same way. Right side shown.

- (1) Remove cover (1) from door handle (2).
- (2) Remove screw (3), door handle (2), and washer (4) from door (5).
- (3) Remove four screws (6) and handle (7) from door (5).



(4) Raise cover (8) from window crank (9).

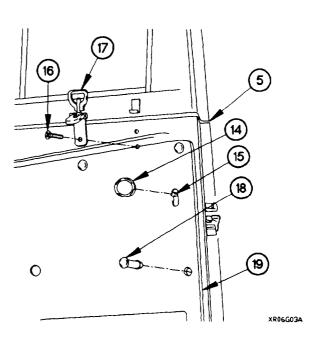
0

(5) Remove screw (10), window crank (9), collar (11), and resilient mount (12) from window regulator (13).

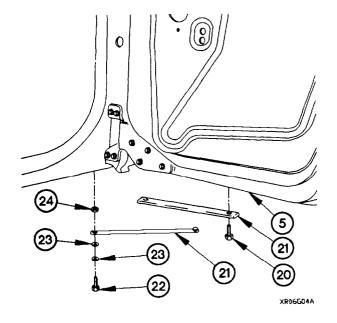
2

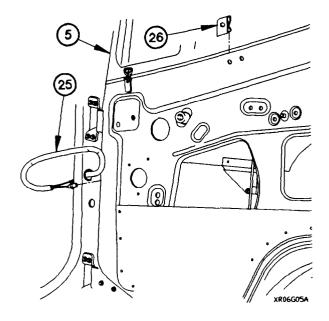
XR06G01A

- (6) Remove knob (14) from lock stud (15).
- (7) Remove two screws (16) and latch (17) from door (5).
- (8) Remove 12 rivets (18) from door lining (19).
- (9) Remove door lining (19) from door (5).



- (10) Remove two screws (20) and door arrestor assembly (21) from bottom of door (5).
- (11) Remove screw (22), two spring washers (23), door arrestor assembly (21), and washer (24) from cab.



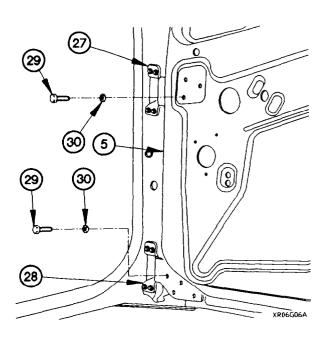


NOTE

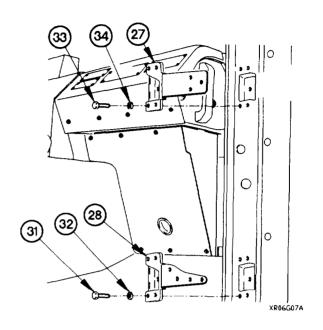
Steps (14) through (16) require the aid of an assistant.

- (14) Lift door (5) enough to take weight off hinges (27 and 28).
- (15) Remove six screws (29) and washers (30) from hinges (27 and 28).
- (16) Remove door (5) from cab.

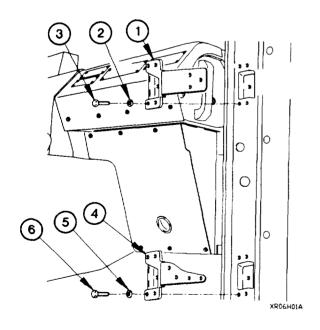
- (12) Remove wiring harness (25) from door (5) by pulling through access hole in forward edge of door (5).
- (13) Remove four clip nuts (26) from door (5).



- (17) Remove five screws (31), washers (32), and hinge (28) from cab.
- (18) Remove five screws (33), washers (34), and hinge (27) from cab.



h. Door Lower-Half Installation.



NOTE

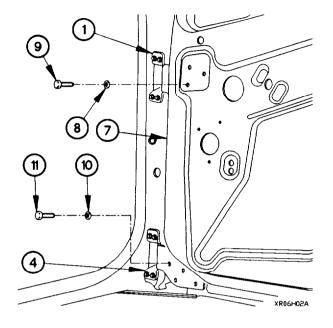
Left and right door lower-halves are installed the same way. Right side shown.

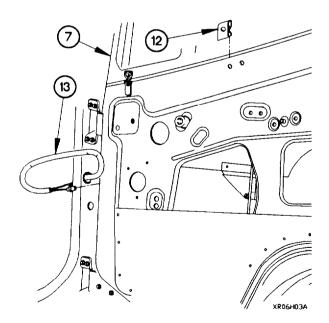
- (1) Position hinge (1) on cab with five washers (2) and screws (3).
- (2) Position hinge (4) on cab with five washers (5) and screws (6).

NOTE

Step (3) requires the aid of an assistant.

- (3) Position door (7) on cab with hinge (1) in slot in forward edge of door and bolt holes aligned with openings in door.
- (4) Position door (7) on hinge (1) with three washers (8) and screws (9).
- (5) Position door (7) on hinge (4) with three washers (10) and screws (11).
- (6) Adjust door (7) so that gap between door and cab is approximately equal all around.
- (7) Tighten three screws (9) and screws (11) one-half turn.
- (8) Open, close, and open door (7) to ensure correct operation.
- (9) Tighten three screws (9) and screws (11) to 22-26 lb-ft (30-35 N•m).

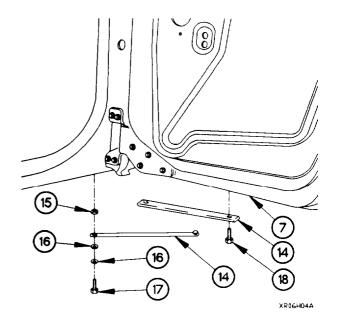




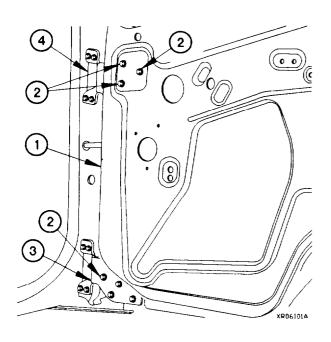
- (10) Install four clip nuts (12) on door (7).
- (11) Install wiring harness (13) through access hole in forward edge of door (7).

16-6. M1081 DOOR REPAIR/ADJUSTMENT (CONT)

- (12) Install door arrestor assembly (14) on cab with washer (15), two spring washers (16), and screw (17).
- (13) Install door arrestor assembly (14) on bottom of door (7) with two screws (18).



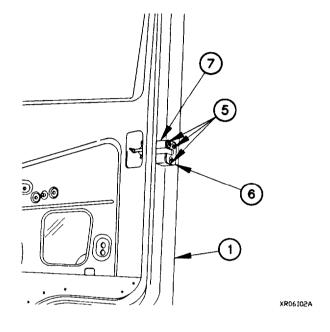
i. Door Adjustment.

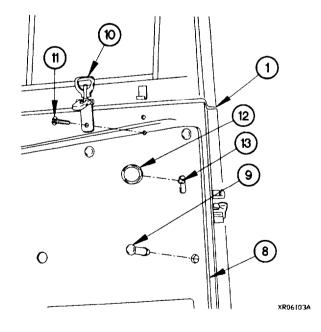


NOTE

- Steps (1) and (2) require the aid of an assistant.
- Loosen door hinge screws only enough to allow small adjusting movements of door.
- (1) Support door (1) and loosen six screws (2) on bottom hinge (3) and top hinge (4).
- (2) Adjust door (1) so that gap between door (1) and cab is approximately equal all around.
- (3) Open, close, and open door (1) to ensure correct operation.
- (4) Tighten six screws (2) on top hinge (4) and bottom hinge (3) to 22-26 lb-ft (30-35 N•m).

- (5) Loosen three screws (5) on strike catch (6) and adjust so catch is centered in latch assembly (7) slot, as shown.
- (6) Tighten three screws (5) to 70-85 lb-ft (8-10 N•m).
- (7) Open and close door (1) to ensure correct operation.





NOTE

Ensure door lining fits inside of strip at bottom of door.

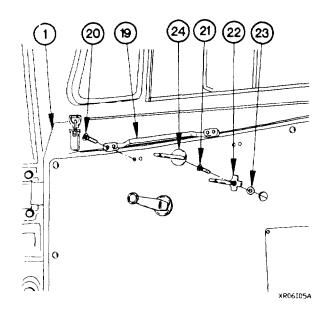
- (8) Position door lining (8) on door (1).
- (9) Install 12 rivets (9) in door lining (8).
- (10) Position latch (10) on door (1) with two screws (11).
- (11) Tighten two screws (11) to 65-121 lb-in. (10-14 $N \bullet m$).
- (12) Install knob (12) on lock stud (13).

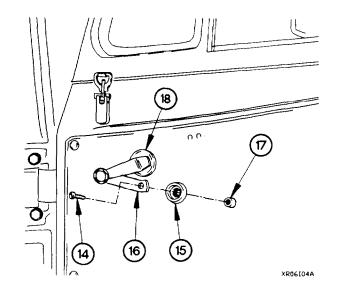
16-6. M1081 DOOR REPAIR/ADJUSTMENT (CONT)

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.

- (13) Apply sealing compound to threads of screw (14).
- (14) Position collar (15) and window crank (16) on window regulator (17) with screw (14).
- (15) Tighten screw (14) to 50-55 lb-in. (6 N•m).
- (16) Install cover (18) on window crank (16).





- (17) Position handle (19) on door (1) with four screws (20).
- (18) Tighten four screws (20) to 22-28 lb-in. (2-3 N•m).
- (19) Apply sealing compound to threads of screw (21).
- (20) Position door handle (22) on door (1) with washer (23) and screw (21).
- (21) Tighten screw (21) to 50-55 lb-in. (6 N•m).
- (22) Install cover (24) on door handle (22).

j. Follow-On Maintenance.

- (1) Install upper door-half (for lower door-half removal).
- (2) Install marker light (para 7-31).
- (3) Clean all grease or oil from door.
- (4) Clean window glass.

End of Task.

16-7. REAR CAB SUPPORT ASSEMBLY REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Cab air springs deflated (TM 9-2320-365-10). Spare tire lowered (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C) Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C) Socket Set, Socket Wrench (Item 35, Appendix C)

Materials/Parts

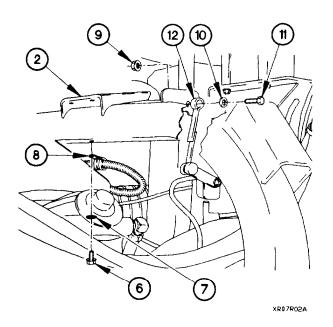
Nut, Self-Locking (4) (Item 149, Appendix G) Nut, Self-Locking (Item 125, Appendix G) Nut, Self-Locking (8) (Item 140, Appendix G)

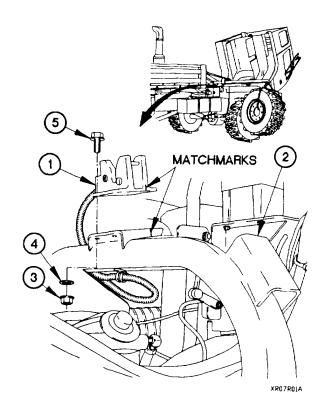
Personnel Required

(2)

a. Removal.

- (1) Match mark position of cab hydraulic latch (1) on rear cab support (2).
- (2) Remove four self-locking nuts (3), washers (4), screws(5), and cab hydraulic latch (1) from rear cab support(2). Discard self-locking nuts.





- (3) Remove two screws (6), washers (7), and cable clamps (8) from rear cab support (2).
- (4) Remove self-locking nut (9), washer (10), screw (11), and cab leveling valve linkage (12) from rear cab support (2). Discard self-locking nut.

16-7. REAR CAB SUPPORT ASSEMBLY REPLACEMENT (CONT)

NOTE

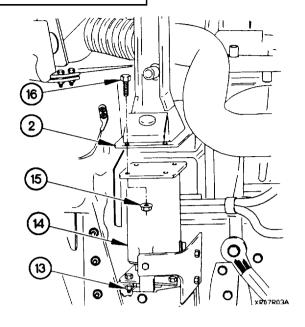
Left and right sides of rear cab support are removed the same way. Right side shown.

- (5) Loosen four self-locking nuts (13) on cab air spring (14).
- (6) Remove four self-locking nuts (15) and screws (16) from rear cab support (2). Discard self-locking nuts.
- (7) Perform steps (5) and (6) on left side rear cab support.

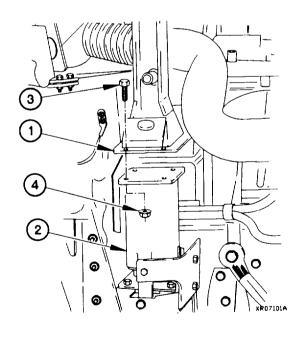
NOTE

Step (8) requires the aid of an assistant.

(8) Remove rear cab support (2) from vehicle.



b. Installation.



NOTE

Step (1) requires the aid of an assistant.

(1) Position rear cab support (1) on vehicle.

NOTE

Left and right sides of rear cab support are installed the same way. Right side shown.

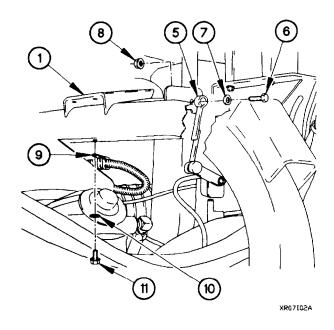
(2) Position four screws (3) and self-locking nuts (4) in rear cab support (1).

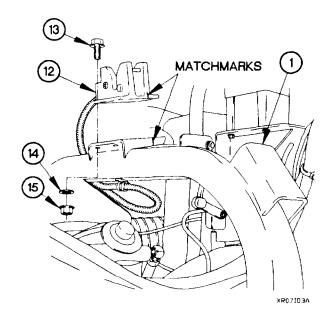
NOTE

Step (3) requires the aid of an assistant.

- (3) Tighten four self-locking nuts (4) to 48-58 lb-ft (65-79 N•m).
- (4) Perform steps (2) and (3) on left side of rear cab support.

- (5) Position cab leveling valve linkage (5) on rear cab support (1) with screw (6), washer (7) and self-locking nut (8).
- (6) Tighten self-locking nut (8) to 60-72 lb-in. (7-8 N•m).
- (7) Install two cable clamps (9) on cab support (1) with washers (10) and screws (11).



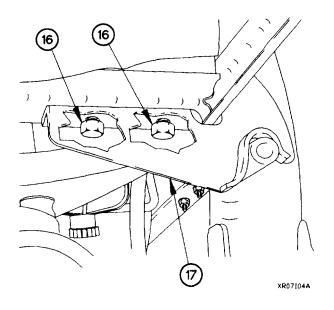


- (8) Position cab hydraulic latch (12) on rear cab support (1) with matchmarks aligned.
- (9) Position four screws (13), washers (14), and self-locking nuts (15) in cab hydraulic latch (12).
- (10) Tighten four screws (13) to 35-43 lb-ft (47-58 N•m).

NOTE

Loosen screws only enough that latches can be moved with some resistance.

(11) Loosen four screws (16) in two cab latches (17).



16-7. REAR CAB SUPPORT ASSEMBLY REPLACEMENT (CONT)

(12) Lower cab (TM 9-2320-365-10).

CAUTION

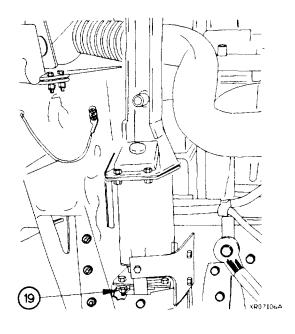
Latches must be adjusted so that they ride squarely on the latch supports and do not contact the welded area of the latch supports. Failure to comply may result in damage to equipment.

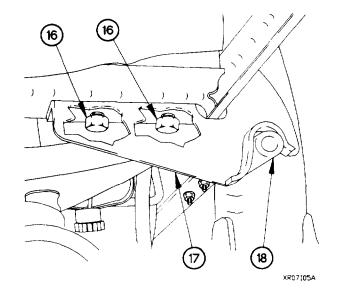
- (13) Adjust two latches (17) on latch supports (18).
- (14) Raise cab (TM 9-2320-365-10).

CAUTION

Do not allow latches to change position while tightening screws. Failure to comply may result in damage to equipment.

(15) Tighten four screws (16) to 35-43 lb-ft (47-58 N•m).





- (16) Lower cab (TM 9-2320-365-10).
- (17) Inflate cab air springs (TM 9-2320-365-10).

NOTE

- Perform step (18) on left and right sides of cab rear support.
- Step (18) requires the aid of an assistant.
- (18) Tighten four self-locking nuts (19) to 48-58 lb-ft (65-79 N•m).

c. Follow-On Maintenance.

- (1) Adjust cab hydraulic latch (para 19-6).
- (2) Adjust cab leveling valve (para 16-8).

End of Task.

16-8. CAB LEVELING VALVE AND LINKAGE REPLACEMENT/ADJUSTMENT

This task covers:

- a. Removal
- b. Installation

- c. Cab Leveling Valve Adjustment
- d. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Cab air springs deflated (TM 9-2320-365-10). Cab raised (TM 9-2320-365-10). Air tanks drained (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C) Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C) Socket Set, Socket Wrench (Item 35, Appendix C)

Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Nut, Self-Locking (2) (Item 125, Appendix G)
Nut, Self-Locking (2) (Item 137, Appendix G)

Lockwasher (Item 69, Appendix G) Nut, Self-Locking (2) (Item 134, Appendix G)

Personnel Required

(2)

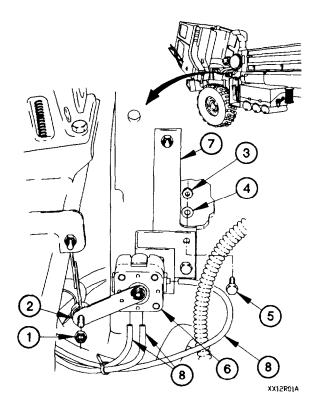
a. Removal.

- (1) Remove self-locking nut (1) from lever (2). Discard self-locking nut.
- (2) Remove two self-locking nuts (3), washers (4), screws (5), and cab leveling valve (6) from bracket (7). Discard self-locking nuts.

NOTE

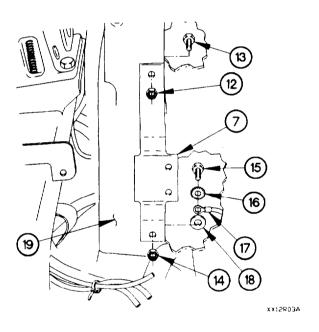
Tag air tubes and connection points prior to disconnecting.

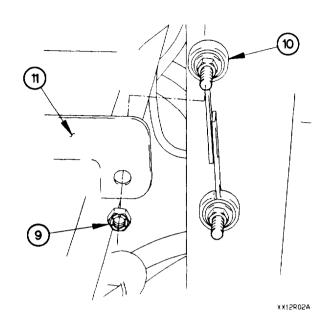
(3) Disconnect three air tubes (8) from cab leveling valve (6).



16-8. CAB LEVELING VALVE AND LINKAGE REPLACEMENT/ADJUSTMENT (CONT)

(4) Remove self-locking nut (9) and linkage (10) from bracket (11). Discard self-locking nut.

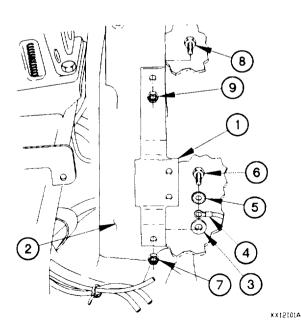




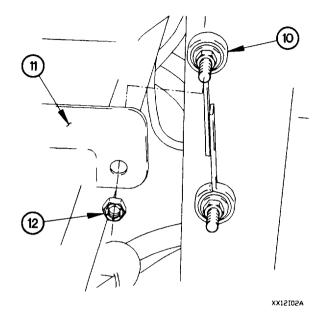
- (5) Remove self-locking nut (12) and screw (13) from bracket (7). Discard self-locking nut.
- (6) Remove self-locking nut (14), screw (15), lockwasher (16), terminal lug TL84 (17), washer (18), and bracket (7) from spare tire retainer (19). Discard self-locking nut and lockwasher.

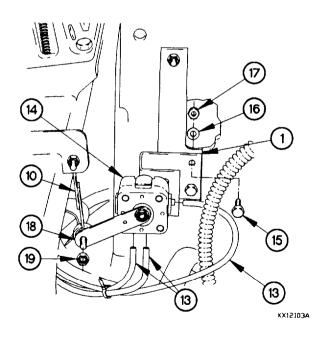
b. Installation.

- (1) Position bracket (1) on spare tire retainer (2) with washer (3), terminal lug TL84 (4), lockwasher (5), screw (6) and self-locking nut (7).
- (2) Position screw (8) and self-locking nut (9) in bracket (1).
- (3) Tighten self-locking nuts (7 and 9) to 25-31 lb-ft (34-42 N•m).



- (4) Position linkage (10) on bracket (11) with self-locking nut (12).
- (5) Tighten self-locking nut (12) to 60-72 lb-in. (7-8 N•m).





- (6) Connect three air tubes (13) to cab leveling valve (14).
- (7) Position cab leveling valve (14) on bracket (1) with two screws (15), washers (16), and self-locking nuts (17).
- (8) Tighten two self-locking nuts (17) to 84-108 lb-in. (10-12 $N \bullet m$).
- (9) Position linkage (10) on lever (18) with self-locking nut (19).
- (10) Tighten self-locking nut (19) to 60-72 lb-in. (7-8 Nom).
- (11) Lower cab (TM 9-2320-365-10).
- (12) Start engine (TM 9-2320-365-10).
- (13) Inflate cab air springs (TM 9-2320-365-10).
- (14) Check for air leaks around cab leveling valve (14).
- (15) Shut down engine (TM 9-2320-365-10).
- (16) Perform cab leveling valve adjustment (sub-para c.).

16-8. CAB LEVELING VALVE AND LINKAGE REPLACEMENT/ADJUSTMENT (CONT)

c. Cab Leveling Valve Adjustment.

- (1) Lower spare tire (TM 9-2320-365-10).
- (2) Start engine (TM 9-2320-365-10).

NOTE

Steps (3) through (5) require the aid of an assistant.

(3) Loosen self-locking nut (1) on cab leveling valve (2).

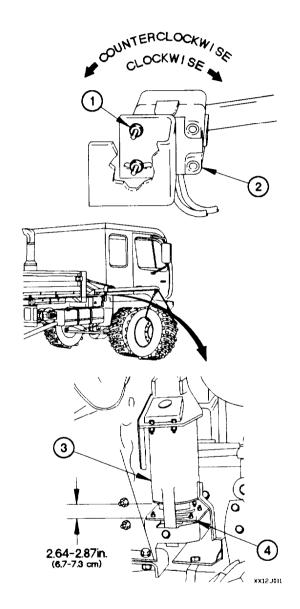
NOTE

- Rotating cab leveling valve clockwise (to the right), as seen from right side of vehicle, decreases cab height. Rotating cab leveling valve counterclockwise (to the left), as seen from right side of vehicle, increases cab height.
- Measure air spring to air spring bracket height on both air springs.
- If air spring to air spring bracket height varies between sides, but is no more than 0.25 in. (0.63 cm) outside of upper or lower limit, adjust cab leveling valve so that average for both sides is 2.64-2.87 in. (6.7-7.3 cm).
- (4) Adjust cab leveling valve (2) until air spring (3) measures 2.64-2.87 in. (6.7-7.3 cm) from bottom edge of air spring to top surface of air spring bracket (4).
- (5) Tighten self-locking nut (1) to 84-108 lb-in. (10-12 $N \bullet m$).

d. Follow-On Maintenance.

- (1) Shut down engine (TM 9-2320-365-10).
- (2) Raise spare tire (TM 9-2320-365-10).

End of Task.



16-9. AIR SPRING AND BRACKET REPLACEMENT

This task covers:

- a. Right Air Spring and Bracket Removal
- b. Right Air Spring and Bracket Installation
- c. Left Air Spring and Bracket Removal
- d. Left Air Spring and Bracket Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Cab air springs deflated (TM 9-2320-365-10). Cab raised (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C) Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C) Socket Set, Socket Wrench (Item 35, Appendix C)

Materials/Parts

Rope, Fibrous (Item 53, Appendix D)
Antiseize Compound (Item 14, Appendix D)
Nut, Self-Locking (8) (Item 140, Appendix G)
Nut, Self-Locking (4) (Item 143, Appendix G)

Personnel Required

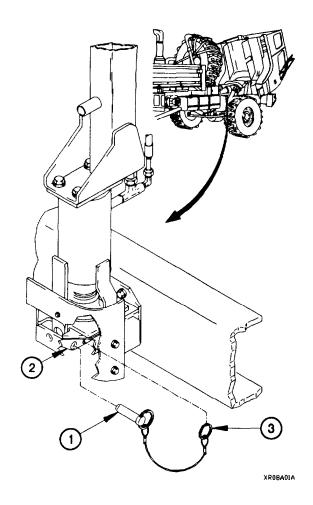
(2)

CAUTION

Vehicle serial numbers 0001 through 3091 were originally equipped with air springs PN 12420795-001/12420795-002. Vehicle serial numbers 3092 and higher are equipped with air springs PN 12421438-001/12421438-002. When air spring replacement is required on a vehicle equipped with air springs PN 12420795-001/12420795-002, both sides must be replaced with air springs PN 12411438-001/12421438-002. Failure to comply may result in damage to equipment.

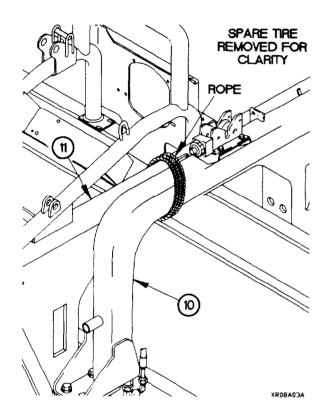
a. Right Air Spring and Bracket Removal.

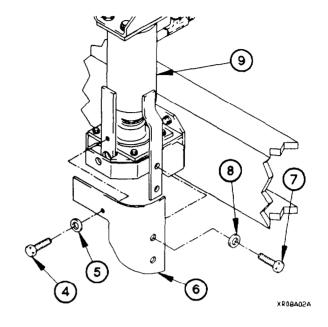
- (1) Remove quick release pin (1) from mounting bracket (2).
- (2) Remove retaining ring (3) from mounting bracket (2).



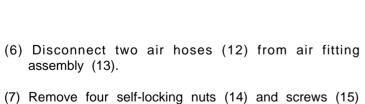
16-9. AIR SPRING AND BRACKET REPLACEMENT (CONT)

- (3) Remove screw (4) and washer (5) from stoneguard (6).
- (4) Remove two screws (7), washers (8), and stoneguard (6) from air spring (9).

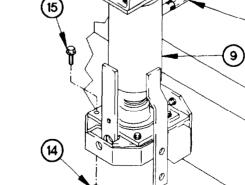




(5) Secure rear cab support assembly (10) to spare tire retainer (11).



from air spring (9). Discard self-locking nuts.



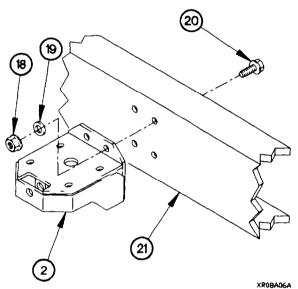
(13)

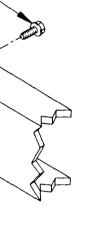
(8) Remove four self-locking nuts (16), screws (17), and air spring (9) from rear cab support assembly (10). Discard self-locking nuts.

NOTE

Note orientation of air fitting assembly prior to removal.

(9) Remove air fitting assembly (13) from air spring (9).





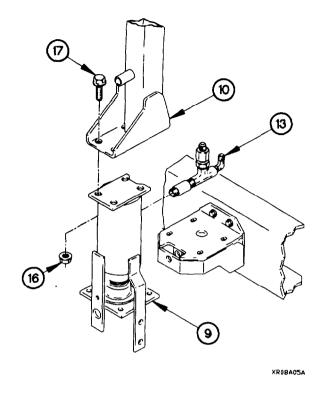


(1) Position mounting bracket (1) on right frame rail (2) with four screws (3), washers (4), and self-locking nuts (5).

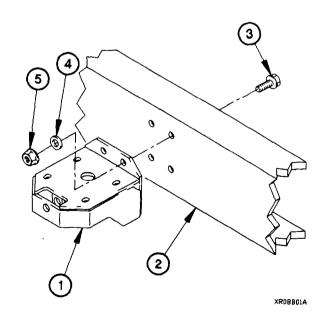
NOTE

Step (2) requires the aid of an assistant.

(2) Tighten four self-locking nuts (5) to 60-74 lb-ft (81-100 N•m).



(10) Remove four self-locking nuts (18), washers (19), screws (20), and mounting bracket (2) from right frame rail (21). Discard self-locking nuts.



16-9. AIR SPRING AND BRACKET REPLACEMENT (CONT)

WARNING

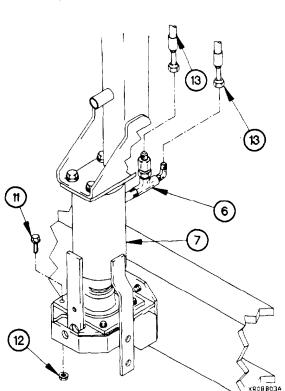
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

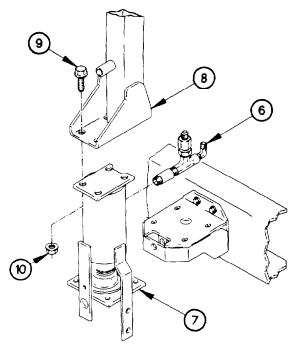
- (3) Apply antiseize compound to threads of air fitting assembly (6).
- (4) Install air fitting assembly (6) in air spring (7).
- (5) Position air spring (7) on rear cab support assembly (8) with four screws (9) and self-locking nuts (10).

NOTE

Step (6) requires the aid of an assistant.

(6) Tighten four self-locking nuts (10) to 48-58 lb-ft (65-79 N \bullet m).





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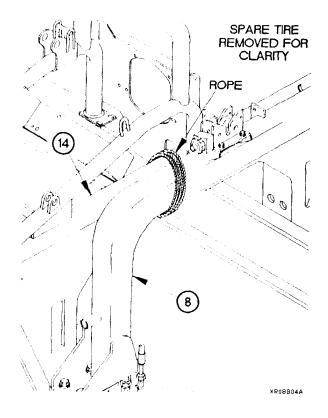
- (7) Position four screws (11) and self-locking nuts (12) in air spring (7).
- (8) Connect two air hoses (13) to air fitting assembly (6).
- (9) Lower cab (TM 9-2320-365-10).
- (10) Inflate cab air springs (TM 9-2320-365-10).

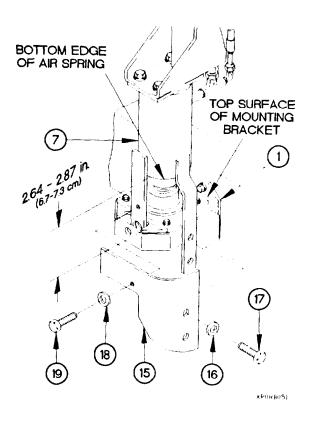
NOTE

Step (11) requires the aid of an assistant.

(11) Tighten four self-locking nuts (12) to 48-58 lb-ft (65-79 N•m).

(12) Remove rear cab support assembly (8) from spare tire retainer (14).





NOTE

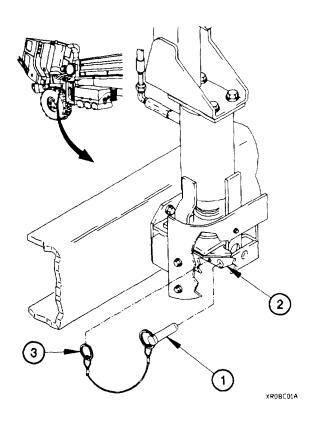
Dimension measured in step (13) should be 2.64-2.87 in. (6.7-7.3 cm). If measurement recorded in step (13) is not within limits, perform cab leveling valve adjustment (para 16-8) prior to installing stoneguard.

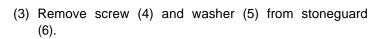
- (13) Measure distance from top surface of mounting bracket (1) to bottom edge of air spring (7).
- (14) Position stoneguard (15) on air spring (7) with two washers (16) and screws (17).
- (15) Position washer (18) and screw (19) in stoneguard (15).
- (16) Tighten two screws (17) and screw (19) to 48-60 lb-in. (5-7 N•m).

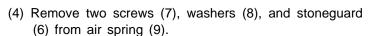
16-9. AIR SPRING AND BRACKET REPLACEMENT (CONT)

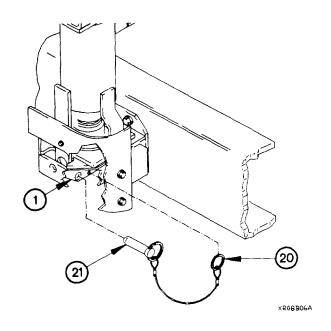
- (17) Install retaining ring (20) on mounting bracket (1).
- (18) Install quick release pin (21) in mounting bracket (1).

c. Left Air Spring and Bracket Removal.

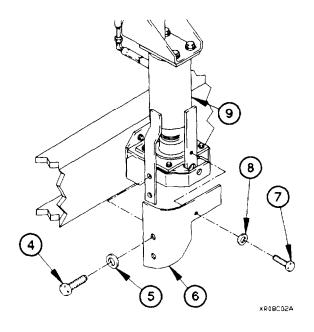




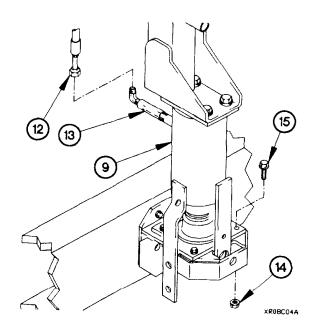




- (1) Remove quick release pin (1) from mounting bracket (2).
- (2) Remove retaining ring (3) from mounting bracket (2).



(5) Secure rear cab support assembly (10) to spare tire retainer (11).

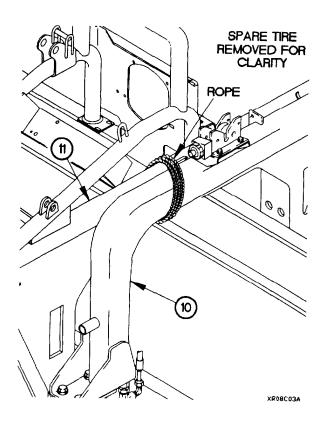


(8) Remove four self-locking nuts (16), screws (17), and air spring (9) from rear cab support assembly (10). Discard self-locking nuts.

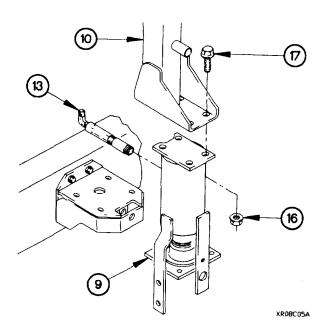
NOTE

Note orientation of fitting prior to removal.

(9) Remove fitting (13) from air spring (9).

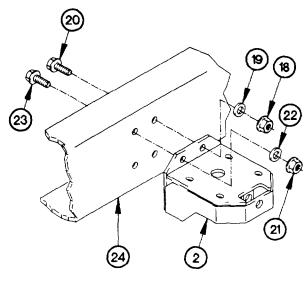


- (6) Disconnect air hose (12) from fitting (13).
- (7) Remove four self-locking nuts (14) and screws (15) from air spring (9). Discard self-locking nuts.



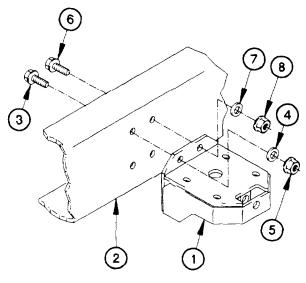
16-9. AIR SPRING AND BRACKET REPLACEMENT (CONT)

- (10) Remove three self-locking nuts (18), washers (19), and screws (20) from mounting bracket (2). Discard self-locking nuts.
- (11) Remove self-locking nut (21), washer (22), screw (23), and mounting bracket (2) from left frame rail (24). Discard self-locking nut.



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d. Left Air Spring and Bracket Installation.



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- (1) Position mounting bracket (1) on left frame rail (2) with screw (3), washer (4), and self-locking nut (5).
- (2) Position three screws (6), washers (7), and self-locking nuts (8) in mounting bracket (1).

NOTE

Step (3) requires the aid of an assistant.

(3) Tighten self-locking nut (5) and three self-locking nuts (8) to 60-74 lb-ft (81-100 N•m).

WARNING

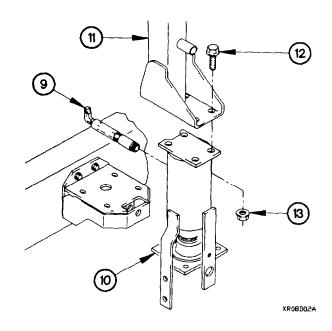
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

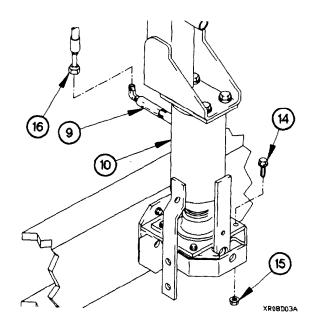
- (4) Apply antiseize compound to threads of fitting (9).
- (5) Install fitting (9) in air spring (10).
- (6) Position air spring (10) on rear cab support assembly (11) with four screws (12) and self-locking nuts (13).

NOTE

Step (7) requires the aid of an assistant.

(7) Tighten four self-locking nuts (13) to 48-58 lb-ft (65-79 N•m).





- (8) Position four screws (14) and self-locking nuts (15) in air spring (10).
- (9) Connect air hose (16) to fitting (9).
- (10) Lower cab (TM 9-2320-365-10).
- (11) Inflate cab air springs (TM 9-2320-365-10).

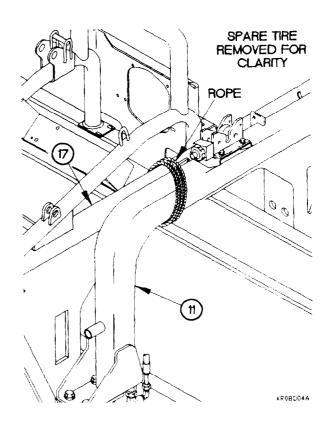
NOTE

Step (12) requires the aid of an assistant.

(121 Tighten four self-locking nuts (15) to 48-58 lb-ft (65-79 N•m).

16-9. AIR SPRING AND BRACKET REPLACEMENT (CONT)

(13) Remove rear cab support assembly (11) from spare tire retainer (17).



TOP SURFACE OF MOUNTING BRACKET 1 264 287 in 18 264 27 in 18

NOTE

Dimension measured in step (14) should be 2.64-2.87 in. (6.7-7.3 cm). If measurement recorded in step (14) is not within limits, perform cab leveling valve adjustment (para 16-8) prior to installing stoneguard.

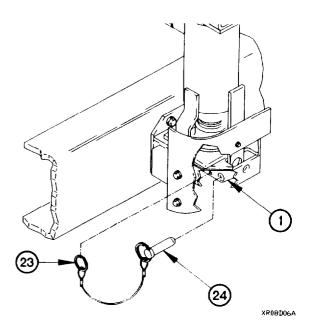
- (14) Measure distance from top surface of mounting bracket (1) to bottom edge of air spring (10).
- (15) Position stoneguard (18) on air spring (10) with two washers (19) and screws (20).
- (16) Position washer (21) and screw (22) in stoneguard (18).
- (17) Tighten two screws (20) and screw (22) to 48-60 lb-in. (5-7 N•m).

- (18) Install retaining ring (23) on mounting bracket (1).
- (19) InStall quick release pin (24) in mounting bracket (1).

e. Follow-On Maintenance.

- (1) Start engine (TM 9-2320-365-10).
- (2) Check around air springs and fittings for air leaks.
- (3) Shut down engine (TM 9-2320-365-10).

End of Task.



16-10. FENDER AND SPLASH GUARD REPLACEMENT

This task covers:

- a. Front Fender Removal (All Models Except M1081)
- b. Front Fender Installation (All Models Except M1081)
- c. Engine Splash Guard Removal (All Models Except M1081)
- d. Engine Splash Guard Installation (All Models Except M1081)
- e. Rear Splash Guard Removal
- f. Rear Splash Guard Installation

- g. Rear Fender Removal
- h. Rear Fender Installation
- i. M1081 Front Fender Removal
- j. M1081 Front Fender Installation
- k. M1081 Engine Splash Guard Removal
- I. M1081 Engine Splash Guard Installation
- m. M1078/M1081 Splash Guard Removal
- n. M1078/M1081 Splash Guard Installation
- o. M1079 Splash Guard Removal
- p. M1079 Splash Guard Installation
- g. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Windshield washer reservoir removed (para 18-2). Warning and caution placards removed, if required (Chap 2).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Tool Kit, Blind Rivet (Item 43, Appendix C)
Drill, Portable, Electric (Item 7, Appendix C)

Tools and Special Tools (Cont)

Drill Set, Twist (Item 6, Appendix C)

Materials/Parts

Rivet, Blind (17) (Item 222, Appendix G)
Nut, Self-Locking (11) (Item 148, Appendix G)
Nut, Self-Locking (3) (Item 116, Appendix G)
Nut, Self-Locking (7) (Item 138, Appendix G)
Lockwasher (Item 104, Appendix G)

Personnel Required

(2)

WARNING

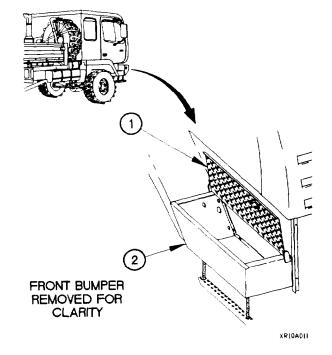
Wear appropriate eye protection when working under vehicle due to the possibility of falling debris. Failure to comply may result in injury to personnel.

a. Front Fender Removal (All Models Except M1081).

NOTE

Perform step (1) on right side.

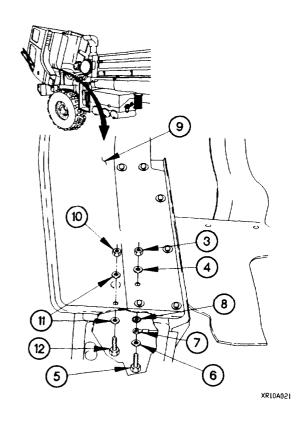
- (1) Open cab step tread (1) on cab step (2).
- (2) Raise cab (TM 9-2320-365-10).

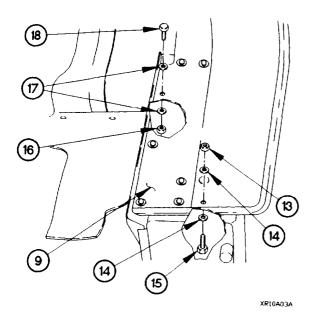


NOTE

Perform steps (3) and (4) on left side.

- (3) Remove self-locking nut (3), washer (4), screw (5) washer (6), terminal lug TL94 (7), and lockwasher (8) from front fender (9). Discard self-locking nut and lockwasher.
- (4) Remove three self-locking nuts (10), six washers (11) and three screws (12) from front fender (9). Discard self-locking nuts.





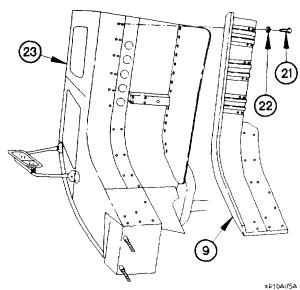
NOTE

Perform step (5) on right side.

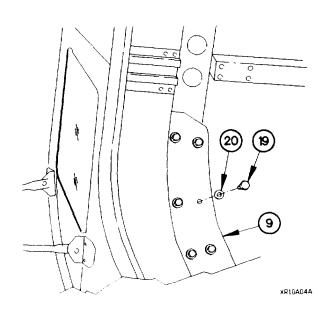
- (5) Remove four self-locking nuts (13), eight washers (14), and four screws (15) from front fender (9). Discard self-locking nuts.
- (6) Remove three self-locking nuts (16), six washers (17) and three screws (18) from front fender (9). Discard self-locking nuts.

16-10. FENDER AND SPLASH GUARD REPLACEMENT (CONT)

(7) Remove six screws (19) and washers (20) from front fender (9).



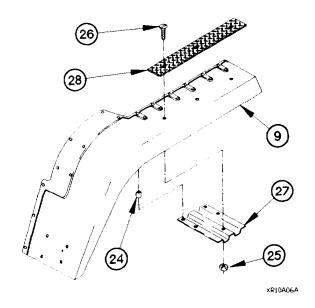
- (9) Remove 12 spacers (24) from front fender (9).
- (10) Remove three self-locking nuts (25), screws (26), brackets (27), and step (28) from front fender (9). Discard self-locking nuts.



NOTE

Step (8) requires the aid of an assistant.

(8) Remove 12 screws (21), washers (22), and front fender (9) from cab (23).

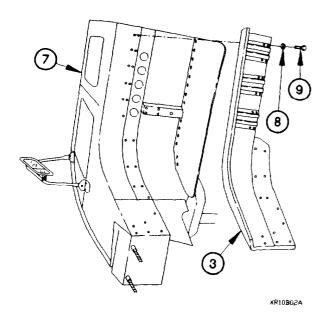


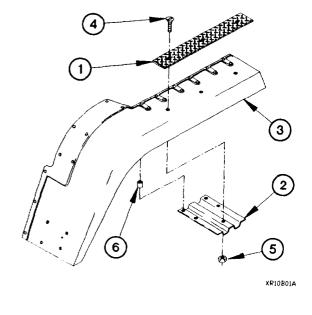
b. Front Fender Installation (All Models Except M1081).

NOTE

Left and right front fenders are installed the same way. Left side shown.

- (1) Position step (1) and three brackets (2) on front fender (3) with three screws (4) and self-locking nuts (5).
- (2) Tighten three self-locking nuts (5) to 18-22 lb-ft (24- $30 \, N^{\bullet}m$).
- (3) Install 12 spacers (6) in front fender (3).

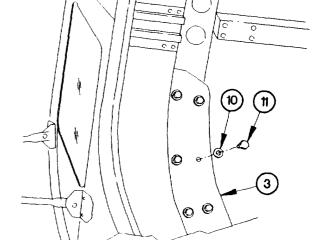




NOTE

Step (4) requires the aid of an assistant.

- (4) Position front fender (3) on cab (7) with 12 washers (8) and screws (9).
- (5) Tighten 12 screws (9) to 18-22 lb-ft (24-30 Nem).



- (6) Position six washers (10) and screws (11) in front fender (3).
- (7) Tighten six screws (11) to 18-22 lb-ft (24-30 N•m).

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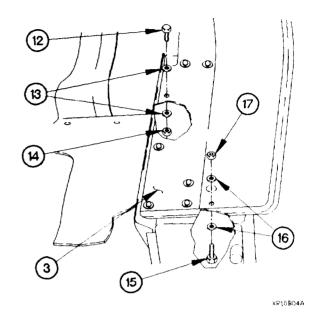
16-10. FENDER AND SPLASH GUARD REPLACEMENT (CONT)

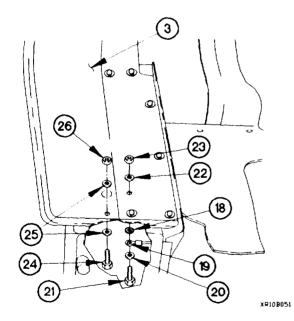
- (8) Position three screws (12), six washers (13), and three self-locking nuts (14) in front fender (3).
- (9) Tighten three self-locking nuts (14) to 18-22 lb-ft (24-30 N•m).

NOTE

Perform steps (10) and (11) on right side.

- (10) Position four screws (15), eight washers (16), and four self-locking nuts (17) in front fender (3).
- (11) Tighten four self-locking nuts (17) to 18-22 lb-ft (24-30 $N \bullet m$).





NOTE

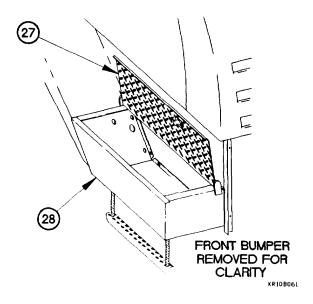
Perform steps (12) through (14) on left side.

- (12) Position lockwasher (18) and terminal lug TL94 (19) on front fender (3) with washer (20), screw (21), washer (22), and self-locking nut (23).
- (13) Position three screws (24), six washers (25), and three self-locking nuts (26) in front fender (3).
- (14) Tighten self-locking nut (23) and three self-locking nuts (26) to 18-22 lb-ft (24-30 N•m).

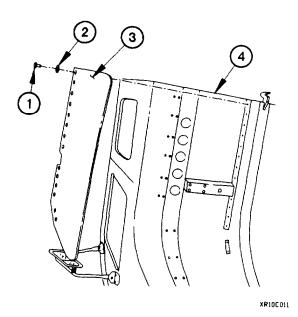
NOTE

Perform step (15) on right side.

- (15) Close cab step tread (27) on cab step (28).
- (16) Lower cab (TM 9-2320-365-10).



c. Engine Splash Guard Removal (All Models Except M1081).



(1) Raise cab (TM 9-2320-365-10).

WARNING

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

NOTE

Left and right engine splash guards are removed the same way. Left side shown.

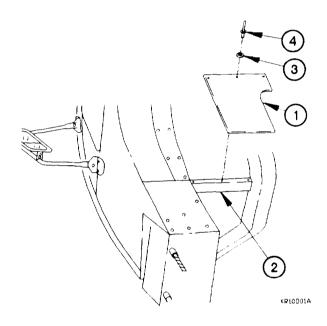
(2) Remove 14 rivets (1), washers (2), and engine splash guard (3) from cab (4).

16-10. FENDER AND SPLASH GUARD REPLACEMENT (CONT)

WARNING

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

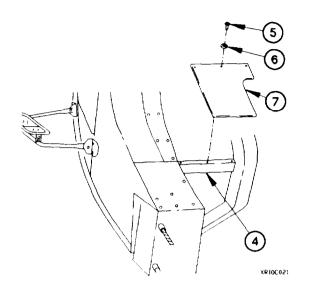
- (3) Remove three rivets (5), washers (6), and engine splash guard (7) from cab (4).
- d. Engine Splash Guard Installation (All Models Except M1081).



NOTE

Step (2) requires the aid of an assistant.

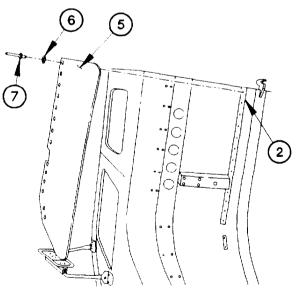
- (2) Install engine splash guard (5) on cab (2) with 14 washers (6) and rivets (7).
- (3) Lower cab (TM 9-2320-365-10).



NOTE

Left and right engine splash guards are installed the same way. Left side shown.

(1) Install engine splash guard (1) on cab (2) with three washers (3) and rivets (4).



XR10D02A

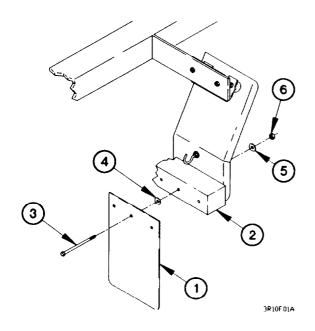
e. Rear Splash Guard Removal.

NOTE

Left and right rear splash guards are removed the same way. Right side shown.

Remove three nuts (1), washers (2), spacers (3), screws (4), and rear splash guard (5) from bumper (6).

f. Rear Splash Guard Installation.

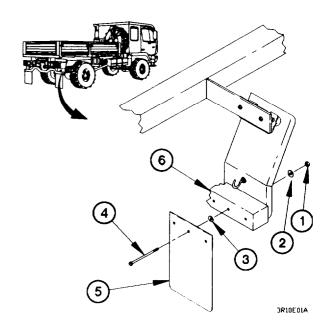


g. Rear Fender Removal.

NOTE

Left and right rear fenders are removed the same way. Right side shown.

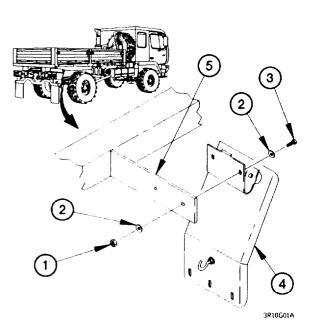
(1) Remove two nuts (1), four washers (2), two screws (3), and rear fender (4) from bracket (5).



NOTE

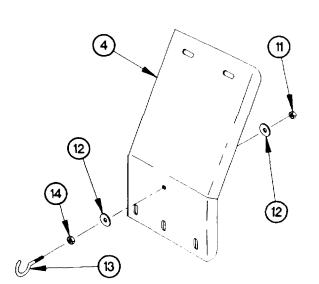
Left and right rear splash guards are installed the same way. Right side shown.

- (1) Position rear splash guard (1) on bumper (2) with three screws (3), spacers (4), washers (5), and nuts (6).
- (2) Tighten three nuts (6) to 18-22 lb-ft (24-30 N•m).



16-10. FENDER AND SPLASH GUARD REPLACEMENT (CONT)

(2) Remove two self-locking nuts (6), washers (7), spacers (8), screws (9), and bracket (10) from rear fender (4). Discard self-locking nuts.



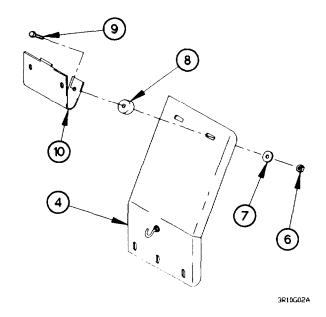
3R10G03A

h. Rear Fender Installation.

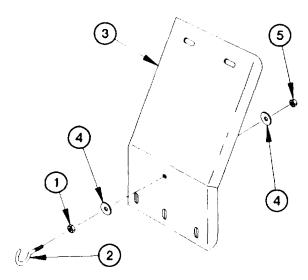
NOTE

Left and right rear fenders are installed the same way. Right side shown.

- (1) Install nut (1) on hook (2).
- (2) Position hook (2) on rear fender (3) with two washers (4) and self-locking nut (5).
- (3) Tighten self-locking nut (5) to 18-22 lb-ft (24-30 Nem).

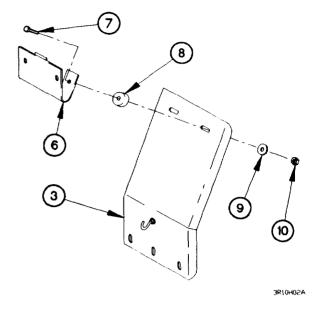


- (3) Remove self-locking nut (11), two washers (12), and hook (13) from rear fender (4). Discard self-locking nut.
- (4) Remove nut (14) from hook (13).



3R10H01A

- (4) Position bracket (6) on rear fender (3) with two screws (7), spacers (8), washers (9), and self-locking nuts (10).
- (5) Tighten two self-locking nuts (10) to 18-22 lb-ft (24- $30\ N^{\bullet}m$).



- 13 (3)
- i. M1081 Front Fender Removal.

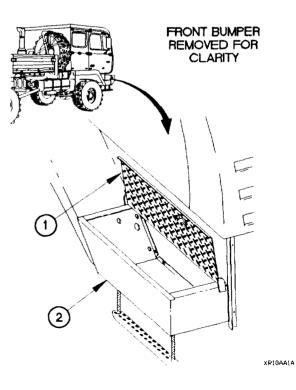
NOTE

3R10H03A

Perform step (1) on right side.

- (1) Open cab step tread (1) on cab step (2).
- (2) Raise cab (TM 9-2320-365-10).

- (6) Position rear fender (3) on bracket (11) with two screws (12), four washers (13), and two nuts (14).
- (7) Tighten two nuts (14) to 18-22 lb-ft (24-30 Nem).

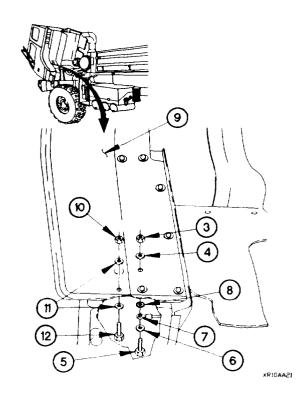


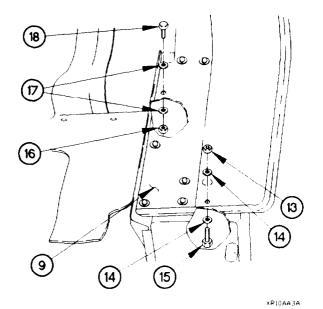
16-10. FENDER AND SPLASH GUARD REPLACEMENT (CONT)

NOTE

Perform steps (3) and (4) on left side.

- (3) Remove self-locking nut (3), washer (4), screw (5), washer (6), terminal lug TL94 (7), and lockwasher (8) from front fender (9). Discard self-locking nut and lockwasher.
- (4) Remove three self-locking nuts (10), six washers (11), and three screws (12) from front fender (9). Discard self-locking nuts.



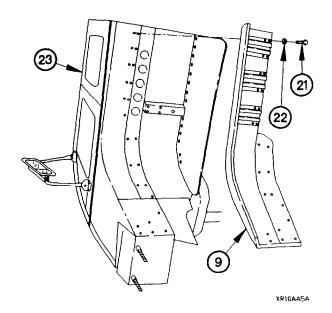


NOTE

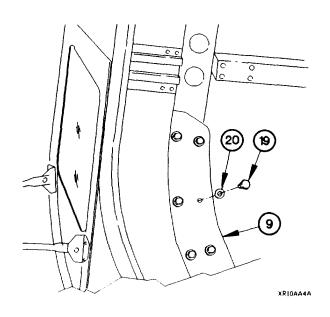
Perform step (5) on right side.

- (5) Remove four self-locking nuts (13), eight washers (14), and four screws (15) from front fender (9). Discard self-locking nuts.
- (6) Remove three self-locking nuts (16), six washers (17), and three screws (18) from front fender (9). Discard self-locking nuts

(7) Remove three screws (19) and washers (20) from front fender (9).



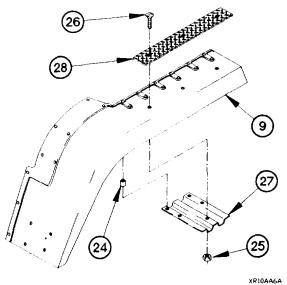
- (9) Remove 12 spacers (24) from front fender (9).
- (10) Remove three self-locking nuts (25), screws (26), brackets (27), and step (28) from front fender (9). Discard self-locking nuts.



NOTE

Step (8) requires the aid of an assistant.

(8) Remove 12 screws (21), washers (22), and front fender (9) from cab (23).



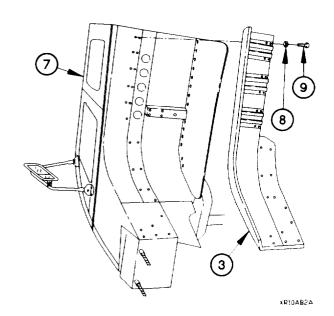
16-10. FENDER AND SPLASH GUARD REPLACEMENT (CONT)

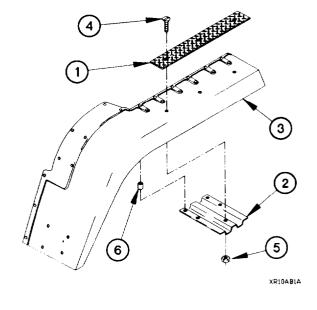
j. M1081 Front Fender Installation.

NOTE

Left and right M1081 front fenders are installed the same way. Left side shown.

- (1) Position step (1) and three brackets (2) on front fender (3) with three screws (4) and self-locking nuts (5).
- (2) Tighten three self-locking nuts (5) to 18-22 lb-ft (24- $30 \text{ N} \cdot \text{m}$).
- (3) Install 12 spacers (6) in front fender (3).

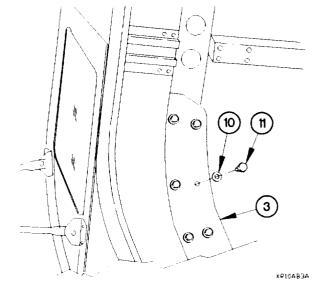




NOTE

Step (4) requires the aid of an assistant.

- (4) Position front fender (3) on cab (7) with 12 washers (8) and screws (9).
- (5) Tighten 12 screws (9) to 18-22 lb-ft (24-30 N•m).



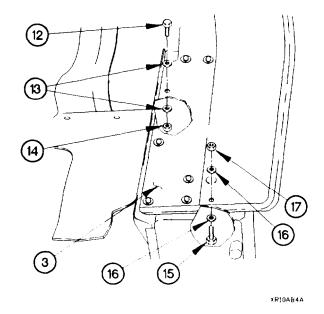
- (6) Position three washers (10) and screws (11) in front fender (3).
- (7) Tighten three screws (11) to 18-22 lb-ft (24-30 N•m).

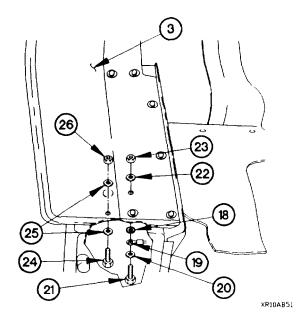
- (8) Position three screws (12), six washers (13), and three self-locking nuts (14) in front fender (3).
- (9) Tighten three self-locking nuts (14) to 18-22 lb-ft (24-30 N•m).

NOTE

Perform steps (10) and (11) on right side.

- (10) Position four screws (15), eight washers (16), and four self-locking nuts (17) in front fender (3).
- (11) Tighten four self-locking nuts (17) to 18-22 lb-ft (24-30 N•m).





NOTE

Perform steps (12) through (14) on left side.

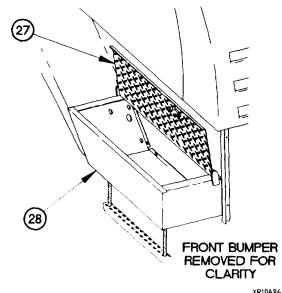
- (12) Position lockwasher (18) and terminal lug TL94 (19) on front fender (3) with washer (20), screw (21), washer (22), and self-locking nut (23).
- (13) Position three screws (24), six washers (25), and three self-locking nuts (26) in front fender (3).
- (14) Tighten self-locking nuts (23 and 26) to 18-22 lb-ft (24-30 N•m).

16-10. FENDER AND SPLASH GUARD REPLACEMENT (CONT)

NOTE

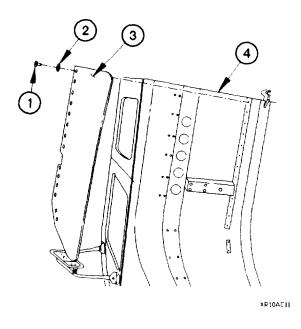
Perform step (15) on right side.

- (15) Close cab step tread (27) on cab step (28).
- (16) Lower cab (TM 9-2320-365-10).



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k. M1081 Engine Splash Guard Removal.



NOTE

Left and right M1081 engine splash guards are removed the same way. Left side shown.

(1) Raise cab (TM 9-2320-365-10).

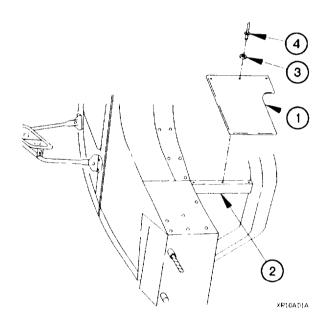
WARNING

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

(2) Remove 14 rivets (1), washers (2), and engine splash guard (3) from cab (4).

(3) Remove three rivets (5), washers (6), and engine splash guard (7) from cab (4).

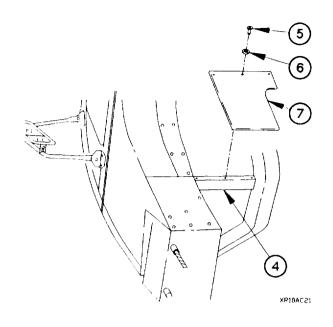
I. M1081 Engine Splash Guard Installation.



NOTE

Step (2) requires the aid of an assistant.

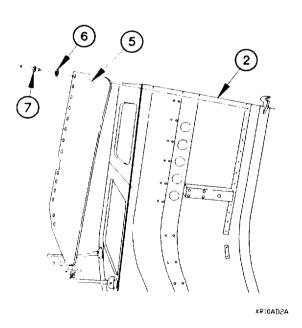
- (2) Install engine splash guard (5) on cab (2) with 14 washers (6) and rivets (7).
- (3) Lower cab (TM 9-2320-365-10).



NOTE

Left and right M1081 engine splash guards are installed the same way. Left side shown.

(1) Install engine splash guard (1) on cab (2) with three washers (3) and rivets (4).



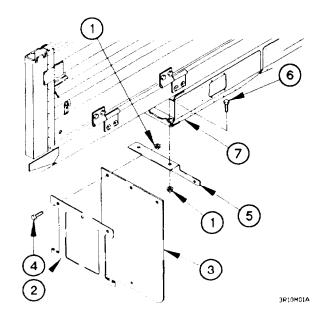
16-10. FENDER AND SPLASH GUARD REPLACEMENT (CONT)

m. M1078/M1081 Splash Guard Removal.

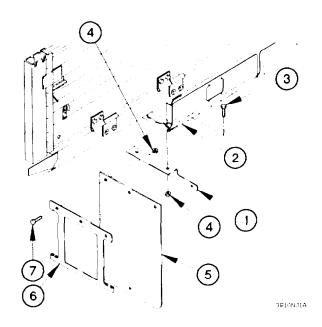
NOTE

Right and left side splash guards are removed the same way. Right side shown.

- (1) Remove three self-locking nuts (1), brace (2), splash guard (3), and three bolts (4) from bracket (5). Discard self-locking nuts.
- (2) Remove two self-locking nuts (1), bracket (5), and two bolts (6) from cargo bed (7). Discard self-locking nuts.



n. M1078/M1081 Splash Guard Installation.



NOTE

Right and left side splash guards are installed the same way. Right side shown.

- (1) Install bracket (1) on cargo bed (2) with two bolts (3) and self-locking nuts (4).
- (2) Install splash guard (5) and brace (6) on bracket (1) with three bolts (7) and self-locking nuts (4).

o. M1079 Splash Guard Removal.

NOTE

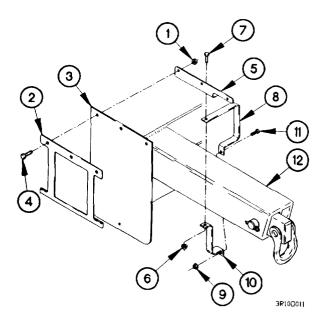
Right and left side splash guards are removed the same way. Right side shown.

- (1) Remove three self-locking nuts (1), brace (2), splash guard (3), and three screws (4) from bracket (5). Discard self-locking nuts.
- (2) Remove two self-locking nuts (6), screws (7) and bracket (5) from clamp (8). Discard self-locking nuts.

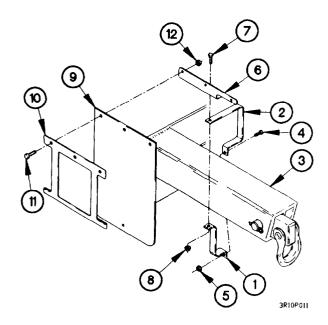
NOTE

Note position of clamps on sub-frame prior to removal.

(3) Remove two self-locking nuts (9), clamps (10), screws (11) and clamps (8) from sub-frame (12). Discard self-locking nuts.



p. M1079 Splash Guard Installation.



NOTE

Right and left side splash guards are installed the same way. Right side shown.

- (1) Position two clamps (1) and clamps (2) on sub-frame (3) with two screws (4) and self-locking nuts (5).
- (2) Position bracket (6) on clamp (2) with two screws (7) and self-locking nuts (8).
- (3) Tighten self-locking nuts (5).
- (4) Tighten self-locking nuts (8) to 34-42 lb-ft (47-57 N•m).
- (5) Install splash guard (9) and brace (10) on bracket (6) with three screws (11) and self-locking nuts (12).

q. Follow-On Maintenance.

- (1) Install windshield washer reservoir (para 18-2).
- (2) Install warning and caution placards, if required (Chap 2).

16-11. CAB STEP REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Windshield washer reservoir and pump removed (left side cab step) (para 18-2). Cab raised (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)

Materials/Parts

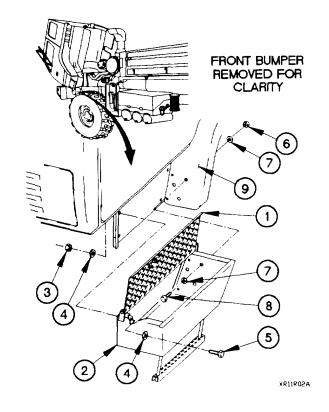
Nut, Self-Locking (10) (Item 148, Appendix G) Grommet, Nonmetallic (Item 50, Appendix G) Receptacle (Item 213, Appendix G) Seal, Nonmetallic (Item 252, Appendix G)

a. Removal.

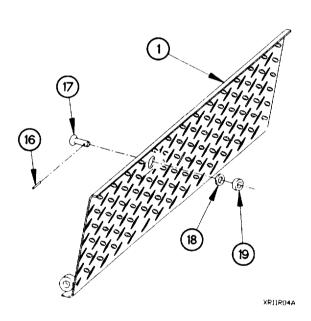
NOTE

Left and right cab steps are removed the same way. Left cab step shown.

- (1) Open cab step tread (1) on cab step (2).
- (2) Remove four self-locking nuts (3), eight washers (4), and four screws (5) from cab step (2). Discard self-locking nuts.
- (3) Remove four self-locking nuts (6), eight washers (7), four screws (8), and cab step (2) from fender (9). Discard self-locking nuts.



- (4) Remove two self-locking nuts (10), washers (11), screws (12), and cab step tread (1) from cab step (2). Discard self-locking nuts.
- (5) Remove two seals (13) and seal (14) from cab step tread (1). Discard seals.
- (6) Remove turnlock receptacle (15) from cab step (2). Discard turnlock receptacle.

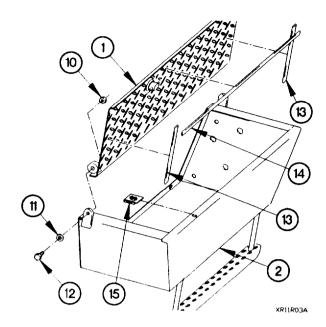




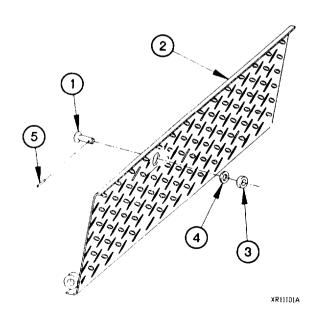
NOTE

Left and right cab steps are installed the same way. Left cab step shown.

- (1) Position stud fastener (1) in cab step tread (2) with grommet (3) and washer (4).
- (2) Install pin (5) in stud fastener (1).

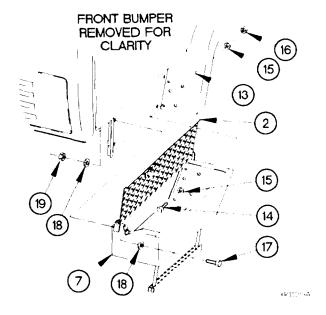


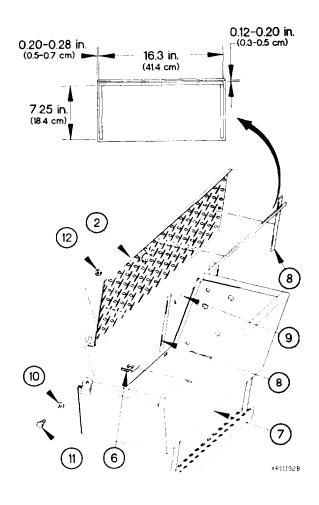
- (7) Remove pin (16) from stud fastener (17).
- (8) Remove stud fastener (17), washer (18), and grommet (19) from cab step tread (1). Discard grommet.



16-11. CAB STEP REPLACEMENT (CONT)

- (3) Install turnlock receptacle (6) on cab step (7).
- (4) Cut two seals (8) to 7.25 in. (18.4 cm) long.
- (5) Cut one seal (9) to 16.3 in. (41.4 cm) long.
- (6) Install seal (9) on cab step tread (2) as shown.
- (7) Install two seals (8) on cab step tread (2) as shown.
- (8) Position cab step tread (2) on cab step (7) with two washers (10), screws (11), and self-locking nuts (12).
- (9) Tighten two self-locking nuts (12) to 21-27 lb-ft (28-37 N•m).





- (10) Position cab step (7) on fender (13) with four screws (14), eight washers (15), and four self-locking nuts (16).
- (11) Position four screws (17), eight washers (18), and four self-locking nuts (19) in cab step (7).
- (12) Tighten four self-locking nuts (16 and 19) to 21-27 lb-ft (28-37 N•m).
- (13) Close cab step tread (2) on cab step (7).

e. Follow-On Maintenance.

- (1) Lower cab (TM 9-2320-365-10).
- (2) Install windshield washer reservoir and pump (left side cab step) (para 18-2).

16-12. CAB FLOOR COVERING AND DOOR SEAL REPLACEMENT

This task covers:

- a. Right Cab Floor Covering Removal
- b. Right Cab Floor Covering Installation
- c. Left Cab Floor Covering Removal
- d. Left Cab Floor Covering Installation
- e. Center Cab Floor Covering Removal
- f. Center Cab Floor Covering Installation
- g. Door Seal Removal (All Models Except M1081)
- h. Door Seal Installation (All Models Except M1081)
- i. M1081 Door Seal Removal
- j. M1081 Door Seal Installation
- k. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Seats removed (para 16-14).

Tools and Special Tools (Cont)

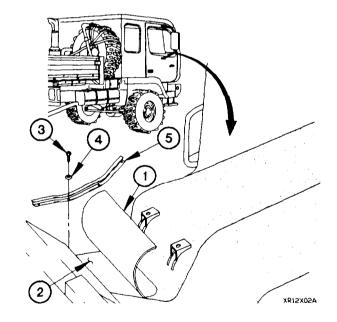
Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C) Socket Set, Socket Wrench (Item 35, Appendix C)

a. Right Cab Floor Covering Removal.

- (1) Remove right floor covering (1) from cab floor (2).
- (2) Remove four screws (3), washers (4), and molding (5) from cab floor (2).

b. Right Cab Floor Covering Installation.

- (1) Position molding (5) on cab floor (2) with four washers (4) and screws (3).
- (2) Tighten four screws (3) to 22-26 lb-in. (2-3 Nem).
- (3) Install right floor covering (1) on cab floor (2).



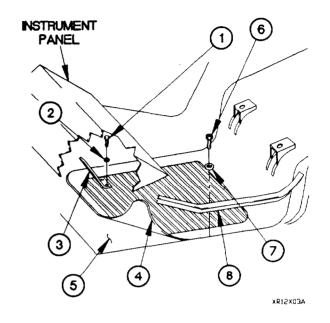
16-12. CAB FLOOR COVERING AND DOOR SEAL REPLACEMENT (CONT)

c. Left Cab Floor Covering Removal.

- (1) Remove two screws (1) and washers (2) from accelerator pedal (3).
- (2) Position accelerator pedal (3) to allow removal of left floor covering (4).
- (3) Remove left floor covering (4) from cab floor (5).
- (4) Remove four screws (6), washers (7), and molding (8) from cab floor (5).

d. Left Cab Floor Covering Installation.

- (1) Position molding (8) on cab floor (5) with four washers (7) and screws (6).
- (2) Tighten four screws (6) to 22-26 lb-in. (2-3 N•m).
- (3) Install left floor covering (4) on cab floor (5).
- (4) Install two washers (2) and screws (1) in accelerator pedal (3).
- (5) Tighten two screws (1) to 72-84 lb-in. (8-9 N•m).

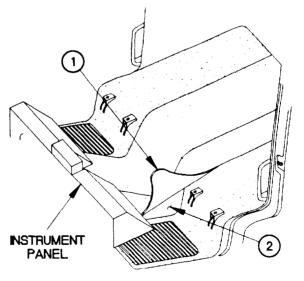


e. Center Cab Floor Covering Removal.

Remove center floor covering (1) from cab floor (2).

f. Center Cab Floor Covering Installation.

Install center floor covering (1) on cab floor (2).



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g. Door Seal Removal (All Models Except M1081)

NOTE

Left and right door seals are removed the same way. Right side shown.

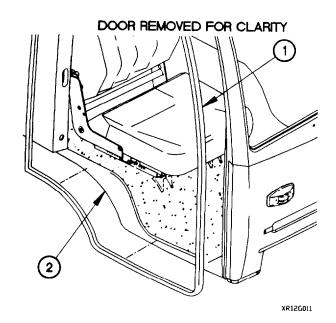
Remove door seal (1) from cab (2).

h. Door Seal Installation (All Models Except M1081)

NOTE

Left and right door seal are installed the same way. Right side shown.

Install door seal (1) on cab (2).



i. M1081 Door Seal Removal.

NOTE

Left and right door seals are removed the same way. Right side shown.

- (1) Remove bottom door seal (1) from cab (2).
- (2) Remove top left door seal (3) from cab (2).
- (3) Remove top door seal (4) from cab (2).
- (4) Remove top right door seal (5) from cab (2).



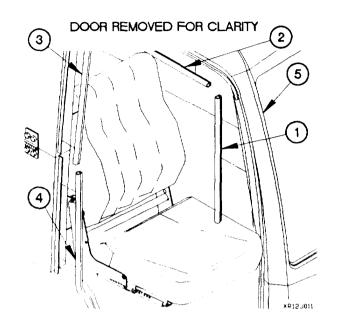
16-12. CAB FLOOR COVERING AND DOOR SEAL REPLACEMENT (CONT)

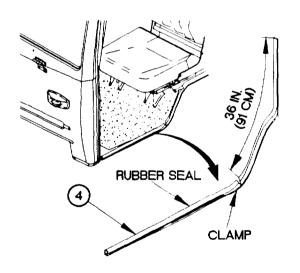
j. M1081 Door Seal Installation.

NOTE

Left and right door seals are installed the same way. Right side shown.

- (1) Cut top right door seal (1) to 25.625 in. (65 cm).
- (2) Cut top door seal (2) to 29.5 in. (74.9 cm).
- (3) Cut top left door seal (3) to 22 in. (55.8 cm).
- (4) Cut bottom door seal (4) to 85 in. (213.3 cm)
- (5) Install top right door seal (1) on cab (5).
- (6) Install top door seal (2) on cab (5).
- (7) Install top left door seal (3) on cab (5).
- (8) Install bottom door seal (4) on cab (5).





- (9) Measure from top left of bottom door seal (4) 36 in. (91 cm).
- (10) Cut rubber seal to plastic clamp.

k. Follow-On Maintenance.

Install seats (para 16-14).

End of Task.

XR12 J021

16-13. CAB PANEL LINERS REPLACEMENT

This task covers:

a. Removalb. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

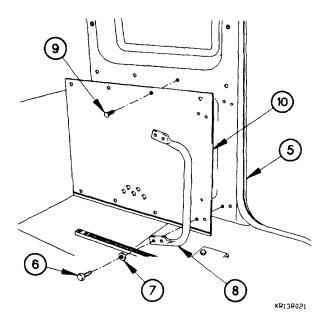
Cab storage boxes removed (para 16-17). Seats removed (para 16-14). Seat belts removed (para 16-15). Small arms mounts removed (para 21-7).

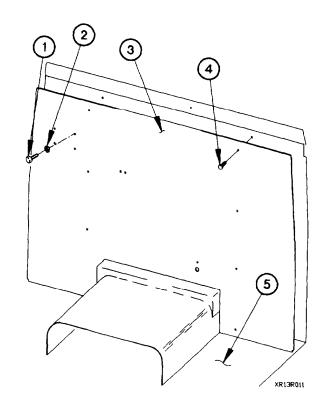
Tools and Special Tools

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

a. Removal.

- (1) Remove four screws (1) and washers (2) from rear panel (3).
- (2) Remove nine fasteners (4) and rear panel (3) from cab (5).



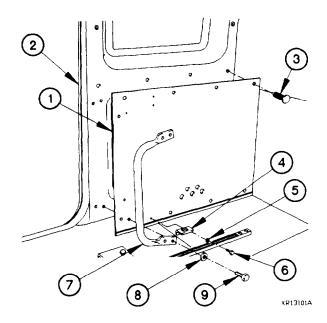


- (3) Remove four screws (6), washers (7), and handle (8) from cab (5).
- (4) Remove seven fasteners (9) and left side panel (10) from cab (5).

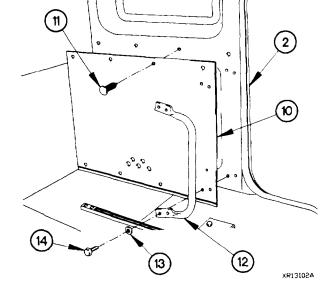
16-13. CAB PANEL LINERS REPLACEMENT (CONT)

- (5) Remove four screws (11), washers (12), and handle (13) from cab (5).
- (6) Remove two screws (14), washers (15), and clip (16) from cab (5).
- (7) Remove seven fasteners (17) and right side panel (18) from cab (5).

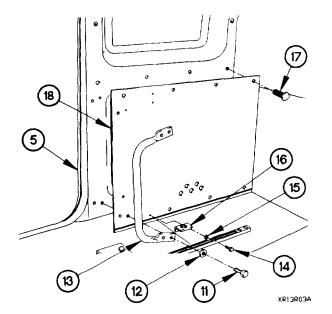
b. Installation.



- (1) Install right side panel (1) in cab (2) with seven fasteners (3).
- (2) Install clip (4) in cab (2) with two washers (5) and screws (6).
- (3) Install handle (7) in cab (2) with four washers (8) and screws (9).



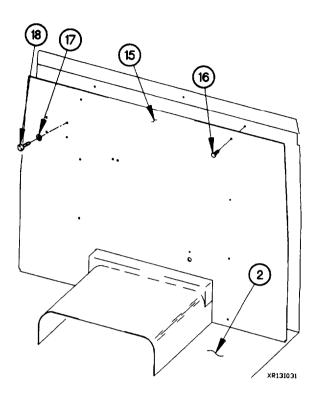
- (4) Install left side panel (10) in cab (2) with seven fasteners (11).
- (5) Install handle (12) in cab (2) with four washers (13) and screws (14).



- (6) Install rear panel (15) in cab (2) with nine fasteners (16).
- (7) Install four washers (17) and screws (18) in rear panel (15).

c. Follow-On Maintenance.

- (1) Install small arms mounts (para 21-7).
- (2) Install center seat belt (para 16-15).
- (3) Install seats (para 16-14).
- (4) Install storage boxes (para 16-17).



16-14. SEATS REPLACEMENT

This task covers:

- a. Passenger's Seat Removal
- b. Passenger's Seat Installation
- c. Center Seat Removal
- d. Center Seat Installation

- e. Driver's Seat Removal
- f. Driver's Seat Installation
- g. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

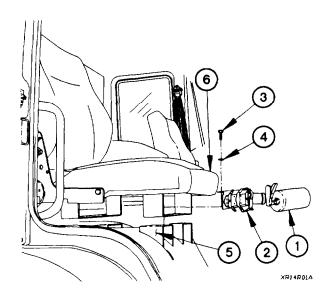
Engine shut down (TM 9-2320-365-10).

Tools and Special Tools

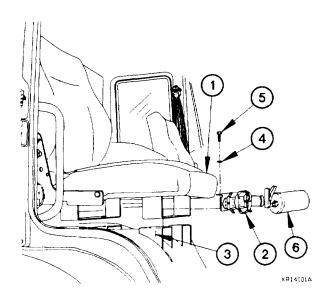
Tool Kit, Genl Mech (Item 44, Appendix C)

a. Passenger's Seat Removal.

- (1) Remove fire extinguisher (1) from bracket (2).
- (2) Remove four screws (3) and washers (4) from seat mounts (5).
- (3) Remove seat (6) and bracket (2) from seat mounts (5).



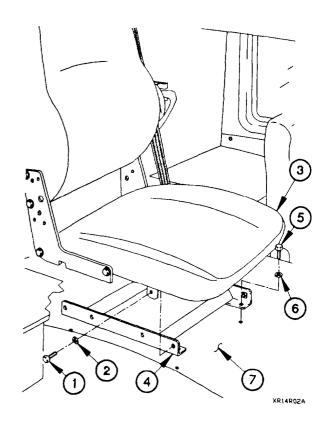
b. Passenger's Seat Installation.



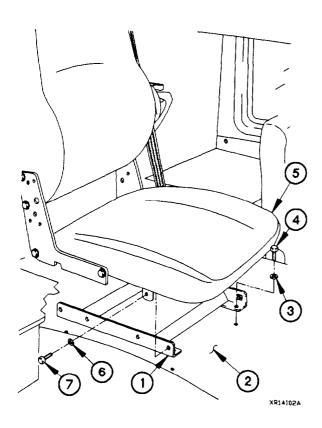
- (1) Install seat (1) and bracket (2) on seat mounts (3) with four washers (4) and screws (5).
- (2) Install fire extinguisher (6) in bracket (2).

c. Center Seat Removal.

- (1) Remove four screws (1), washers (2), and seat (3) from bracket (4).
- (2) Remove four screws (5), washers (6), and bracket (4) from cab floor (7).



d. Center Seat Installation.

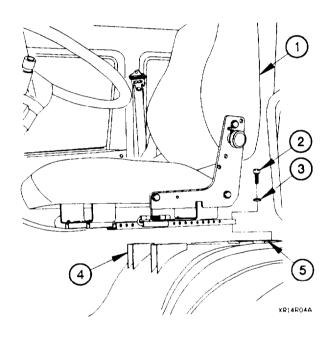


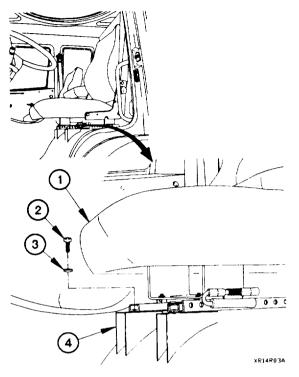
- (1) Install bracket (1) on cab floor (2) with four washers (3) and screws (4).
- (2) Install seat (5) on bracket (1) with four washers (6) and screws (7).

16-14. SEATS REPLACEMENT (CONT)

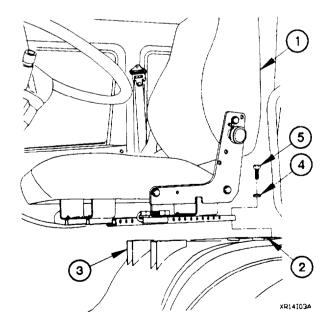
e. Driver's Seat Removal.

- (1) Slide seat (1) toward back of vehicle (TM 9-2320-365-10).
- (2) Remove two screws (2) and washers (3) from front seat mount (4).





- (3) Slide seat (1) toward front of vehicle (TM 9-2320- 365-10).
- (4) Remove two screws (2) and washers (3) from rear seat mount (5).
- (5) Remove seat (1) from seat mounts (4 and 5).



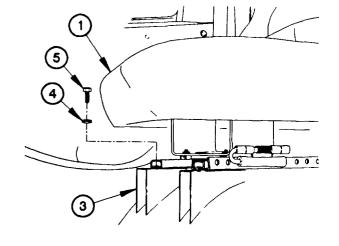
f. Driver's Seat Installation.

- (1) Position seat (1) on seat mounts (2 and 3).
- (2) Slide seat (1) toward front of vehicle (TM 9-2320-365-10).
- (3) Install two washers (4) and screws (5) on rear seat mount (2).

- (4) Slide seat (1) toward rear of vehicle (TM 9-2320-365-10).
- (5) Install two washers (4) and screws (5) on front seat mount (3).

g. Follow-On Maintenance.

Operate seat controls (TM 9-2320-365-10).



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16-15. SEAT BELT REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Cab storage boxes removed (para 16-17).

Tools and Special Tools

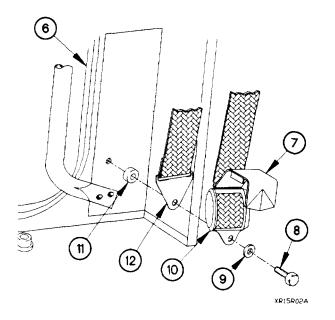
Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)

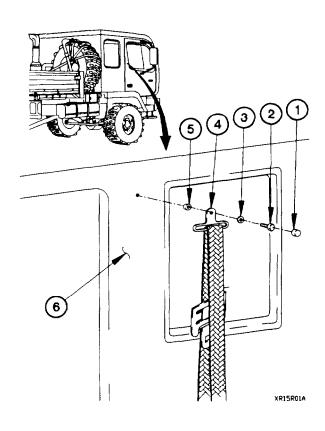
a. Removal.

NOTE

Right and left side seat belts are replaced the same way. Right side shown.

- (1) Remove plastic cover (1) from screw (2).
- (2) Remove screw (2), washer (3), mounting bracket (4), and spacer (5) from side of cab (6).



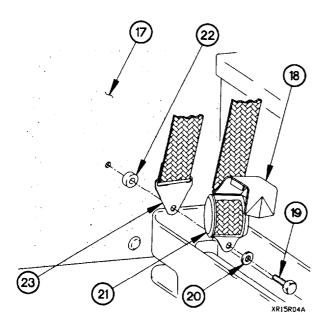


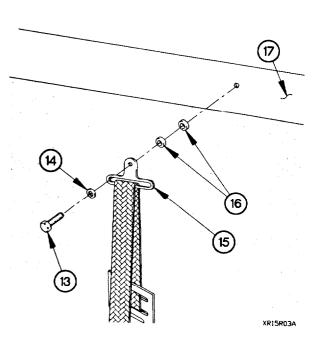
- (3) Open plastic cover (7).
- (4) Remove screw (8), washer (9), seat belt retractor (10), and spacer (11) from side of cab (6).
- (5) Remove seat belt (12) from side of cab (6).

NOTE

Perform steps (6) through (8) for center seat belt.

(6) Remove screw (13), washer (14), center seat belt mounting bracket (15), and two spacers (16) from rear bulkhead (17).



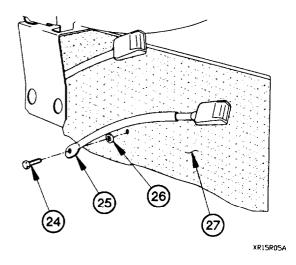


- (7) Open plastic cover (18).
- (8) Remove screw (19), washer (20), center seat belt retractor (21), spacer (22), and center seat belt (23) from rear bulkhead (17).

NOTE

All three seat belt buckles are replaced the same way. Right side shown.

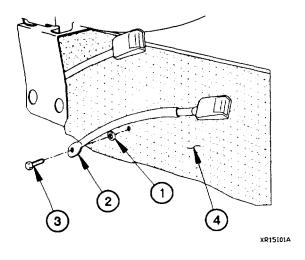
(9) Remove screw (24), seat belt buckle (25), and spacer (26) from cab floor (27).

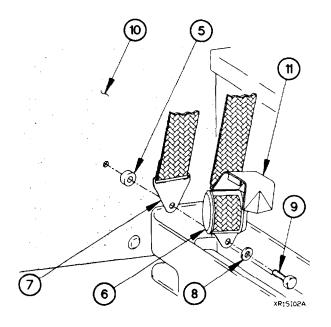


16-15. SEAT BELT REPLACEMENT (CONT)

b. Installation.

- (1) Position spacer (1) and seat belt buckle (2) with screw (3) on cab floor (4).
- (2) Tighten screw (3) to 30-35 lb-ft (41-47 Nem).



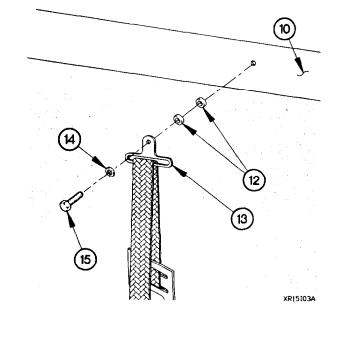


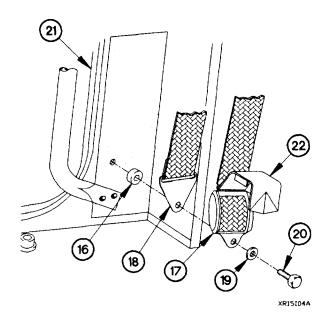
NOTE

Perform steps (3) through (7) for center seat belt.

- (3) Position spacer (5), center seat belt retractor (6), center seat belt (7), washer (8), and screw (9) on rear bulkhead (10).
- (4) Tighten screw (9) to 30-35 lb-ft (41-47 N•m).
- (5) Close plastic cover (11).

- (6) Position two spacers (12), center seat belt mounting bracket (13), washer (14), and screw (15) on rear bulkhead (10).
- (7) Tighten screw (15) to 30-35 lb-ft (41-47 N•m).



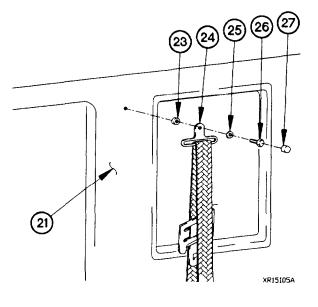


- (8) Position spacer (16), seat belt retractor (17), seat belt (18), washer (19), and screw (20) on side of cab (21).
- (9) Tighten screw (20) to 30-35 lb-ft (41-47 N•m).
- (10) Close plastic cover (22).

- (11) Position spacer (23), seat belt mounting bracket (24). washer (25), and screw (26) on side of cab (21).
- (12) Tighten screw (26) to 30-35 lb-ft (41-47 Nem).
- (13) Install plastic cover (27) on screw (26).

c. Follow-On Maintenance.

Install cab storage boxes (para 16-17).



16-16. TOOL BOX REPLACEMENT/REPAIR

This task covers:

- a. Removal
- b. Disassembly
- c. Assembly

- d. Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Spare tire lowered (TM 9-2320-365-10). Tools removed from tool box (TM 9-2320-365-10). Hydraulic manifold removed (para 19-4).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Screwdriver Attachment, Socket Wrench (Item 47, Appendix B)
Tool Kit, Blind Rivet (Item 43, Appendix C)

Tools and Special Tools (Cont)

Drill, Electric, Portable (Item 7, Appendix C)
Drill Set, Twist (Item 6, Appendix C)

Materials/Parts

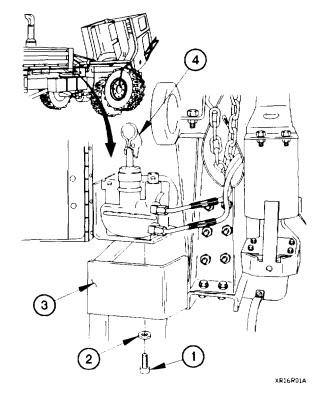
Latch, Bail Head (Item 59, Appendix G)
Seal, Nonmetallic (Item 252, Appendix G)
Rivet, Blind (10) (Item 223, Appendix G)
Nut, Self-Locking (8) (Item 139, Appendix G)
Nut, Self-Locking (2) (Item 140, Appendix G)

Personnel Required

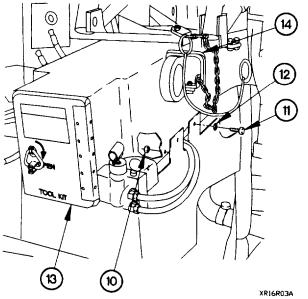
(2)

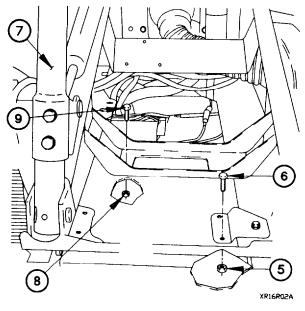
a. Removal.

(1) Remove two screws (1), washers (2), and cover (3) from backup hydraulic pump (4).

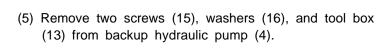


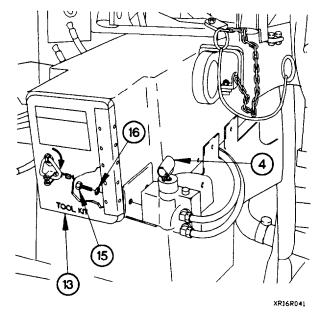
- (2) Remove four self-locking nuts (5) and screws (6) from spare tire retainer assembly (7). Discard self-locking nuts.
- (3) Remove four self-locking nuts (8) and screws (9) from spare tire retainer assembly (7). Discard self-locking nuts.





(4) Remove two self-locking nuts (10), screws (11), washers (12), and tool box (13) from front lifting beam (14). Discard self-locking nuts.





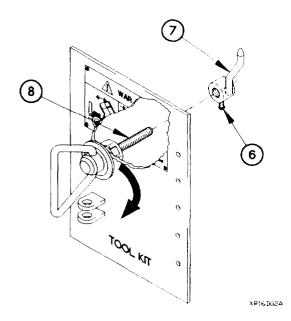
16-16. TOOL BOX REPLACEMENT/REPAIR (CONT)

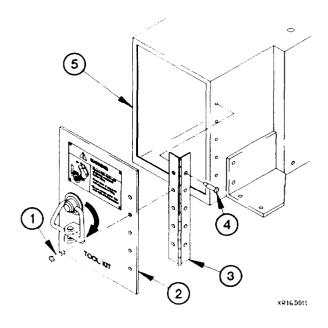
b. Disassembly.

WARNING

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

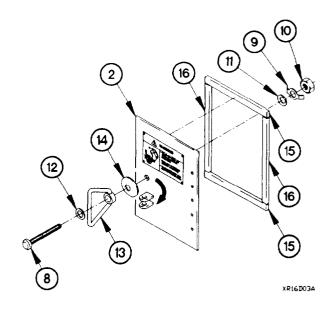
- (1) Remove five rivets (1) and tool box door (2) from hinge (3).
- (2) Remove five rivets (4) and hinge (3) from tool box (5).





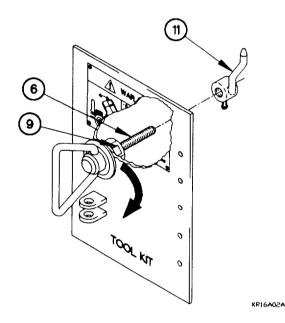
- (3) Loosen setscrew (6) in latch pawl (7).
- (4) Remove latch pawl (7) from shaft (8). Discard latch pawl and setscrew.

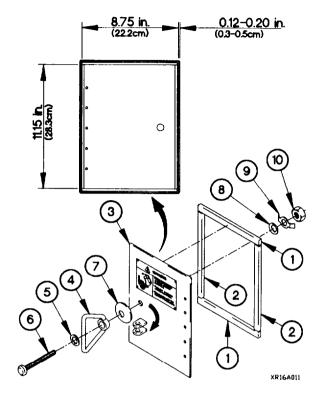
- (5) Bend down two tabs on key washer (9).
- (6) Remove nut (10), key washer (9), spring washer (11), shaft (8), stop washer (12), bail (13), and plate (14) from tool box door (2). Discard key washer, spring washer, shaft, stop washer, bail and plate.
- (7) Remove two seals (15) and seals (16) from tool box door (2). Discard seals.



c. Assembly.

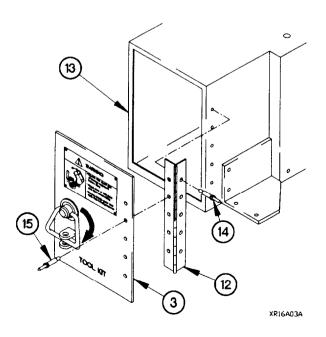
- (1) Cut two seals (1) to 8.75 in. (22.2 cm) long.
- (2) Cut two seals (2) to 11.15 in. (28.3 cm) long.
- (3) Install two seals (1) and seals (2) on tool box door (3) 0.12-0.20 in. (0.3-0.5 cm) offset from edge of tool box door.
- (4) Install bail (4) and stop washer (5) on shaft (6).
- (5) Install plate (7) and shaft (6) on tool box door (3) with spring washer (8), key washer (9), and nut (10).





- (6) Bend up two tabs on key washer (9)
- (7) Install latch pawl (11) on shaft (6).

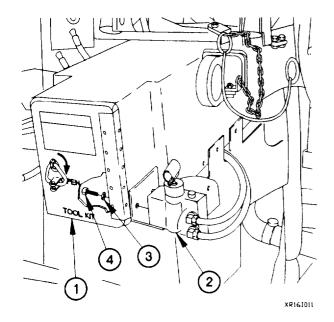
- (8) Install hinge (12) on tool box (13) with five rivets (14).
- (9) Install tool box door (3) on hinge (12) with five rivets (15).



16-16. TOOL BOX REPLACEMENT/REPAIR (CONT)

- (10) Adjust position of latch pawl (11) on shaft (6) so that tool box door (3) is flush against tool box (13) when bail (4) is turned to locked position.
- (11) Tighten setscrew (16) in latch pawl (11).

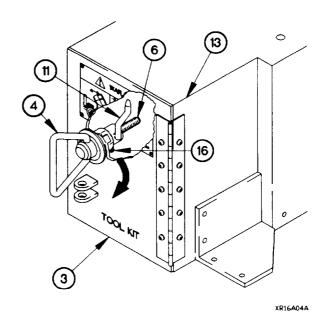




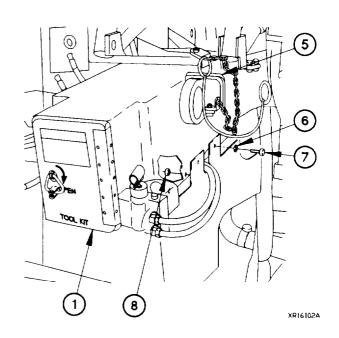
NOTE

Step (3) requires the aid of an assistant.

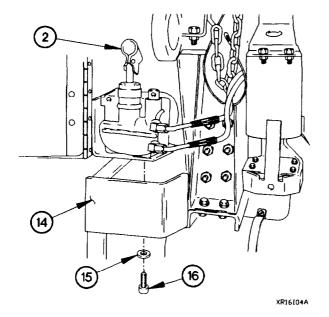
- (3) Position tool box (1) on front lifting beam (5) with two washers (6), screws (7), and self-locking nuts (8).
- (4) Tighten two self-locking nuts (8) to 43-52 lb-ft (58-71 $N \bullet m$).

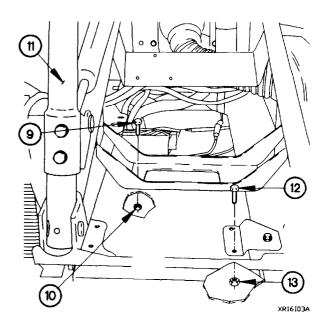


- (1) Position tool box (1) on backup hydraulic pump (2) with two washers (3) and screws (4).
- (2) Tighten two screws (4) to 28-34 lb-ft (38-46 N•m).



- (5) Position four screws (9) and self-locking nuts (10) in spare tire retainer assembly (11).
- (6) Position four screws (12) and self-locking nuts (13) in spare tire retainer assembly (11).
- (7) Tighten four self-locking nuts (10 and 13) to 24-30 lb-ft (33-41 N•m).





- (8) Position cover (14) on backup hydraulic pump (2) with two washers (15) and screws (16).
- (9) Tighten two screws (16) to 28-34 lb-ft (38-46 N•m).

c. Follow-On Maintenance.

- (1) Place tools in tool box (TM 9-2320-365-10).
- (2) Install hydraulic manifold (para 19-4).
- (3) Raise spare tire (TM 9-2320-365-10).

16-17. CAB STORAGE BOX REPLACEMENT/REPAIR

This task covers:

- a. Removal
- b. Disassembly

- c. Assembly
- d. 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) Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C) Socket Set, Socket Wrench (Item 35, Appendix C)

Materials/Parts

Pin, Cotter (Item 208, Appendix G)
Grommet, Nonmetallic (Item 46, Appendix G)
Bumper, Rubber (12) (Item 4, Appendix G)
Channel, Rubber (Item 6, Appendix G)
Adhesive (Item 3, Appendix D)

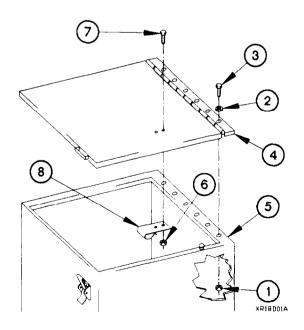
a. Removal.

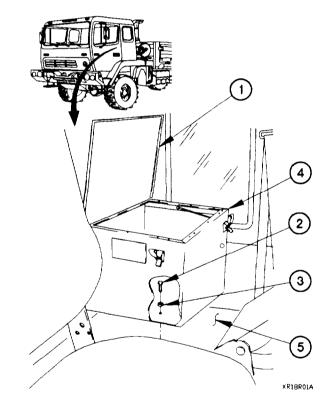
NOTE

Left and right storage boxes are removed the same way. Left storage box shown.

- (1) Open storage box cover (1).
- (2) Remove six screws (2) and washers (3) from storage box (4).
- (3) Remove storage box (4) from cab floor (5).

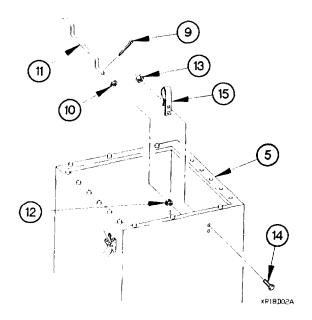
b. Disassembly.

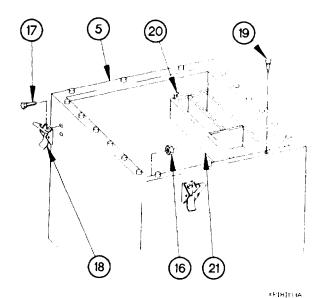




- (1) Remove six nuts (1), washers (2), screws (3), and storage box cover (4) from storage box (5).
- (2) Remove two nuts (6), screws (7) and clamp (8) from storage box cover (4).

- (3) Remove cotter pin (9), washer (10), and cover support arm (11) from storage box (5). Discard cotter pin.
- (4) Remove rubber grommet (12) from storage box (5). Discard rubber grommet.
- (5) Remove two nuts (13), screws (14), and clamp (15) from storage box (5).





- (6) Remove four nuts (16), screws (17), and two latches (18) from storage box (5).
- (7) Remove 12 rubber bumpers (19) from storage box (5). Discard rubber bumpers.

NOTE

Right storage box is equipped with a tray. Perform step (8) on right storage box.

(8) Remove rubber channel (20) from storage box tray (21). Discard rubber channel.

16-17. CAB STORAGE BOX REPLACEMENT/REPAIR (CONT)

c. Assembly.

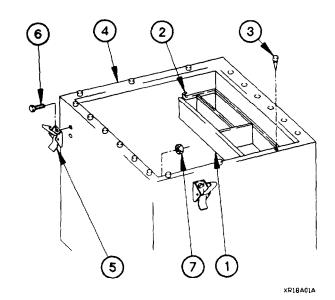
WARNING

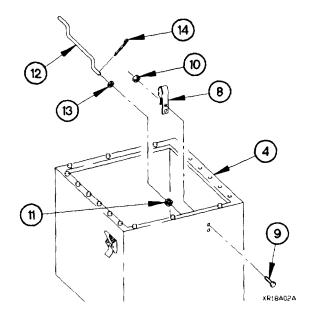
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

NOTE

Only right storage box is equipped with a tray. Perform steps (1) and (2) on right storage box.

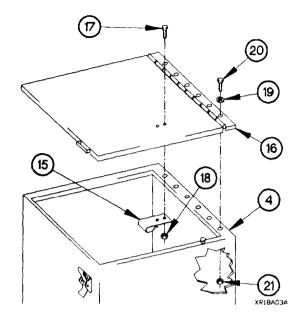
- (1) Apply adhesive to top edges of storage box tray (1).
- (2) Install rubber channel (2) on storage box tray (1).
- (3) Install 12 rubber bumpers (3) in storage box (4).
- (4) Install two latches (5) on storage box (4) with four screws (6) and nuts (7).



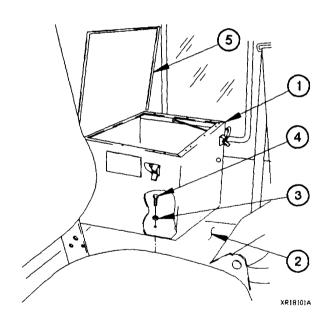


- (5) Install clamp (8) on storage box (4) with two screws (9) and nuts (10).
- (6) Install rubber grommet (11) in storage box (4).
- (7) Install cover support arm (12) in storage box (4) with washer (13) and cotter pin (14).

- (8) Install clamp (15) on storage box cover (16) with two screws (17) and nuts (18).
- (9) Install storage box cover (16) on storage box (4) with six washers (19), screws (20), and nuts (21).



d. Installation.



NOTE

Left and right storage boxes are installed the same way. Left storage box shown.

- (1) Position storage box (1) in mounting location on cab floor (2).
- (2) Position six washers (3) and screws (4) in storage box (1).
- (3) Tighten six screws (4) to 70-85 lb-in. (8-10 N•m).
- (4) Close storage box cover (5).

16-18. PANEL STOWAGE DOOR ASSEMBLY REPAIR

This task covers:

- a. Removal
- b. Disassembly

- c. Assembly
- d. 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)
Drill Set, Twist (Item 6, Appendix C)
Drill, Portable, Electric (Item 7, Appendix C)
Goggles, Industrial (Item 15, Appendix C)

Tools and Special Tools (COnt)

Tool Kit, Blind Rivet (Item 44, Appendix C)

Materials/Parts

Nut, Self-Locking (4) (Item 123, Appendix G) Rivet, Blind (10) (Item 235, Appendix G) Rivet, Blind (8) (Item 220, Appendix G)

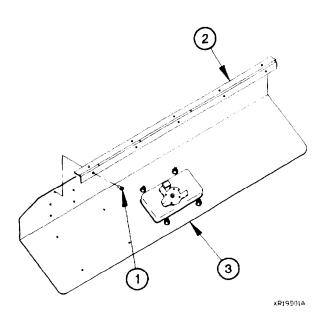
a. Removal.

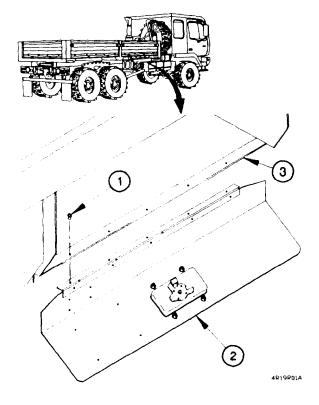
WARNING

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

Remove five rivets (1) and door (2) from stowage box (3).

b. Disassembly.





(1) Remove five rivets (1) and hinge (2) from door (3).

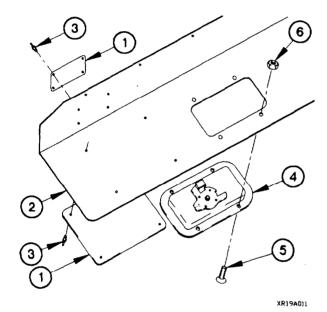
(2) Remove four nuts (4), screws (5), and door latch (6) from door (3).

NOTE

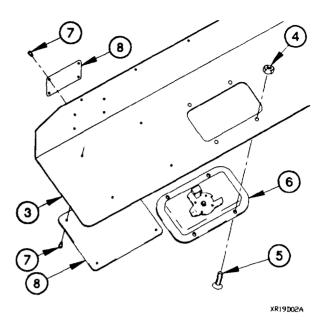
Perform step (3) on right side door.

(3) Remove eight rivets (7) and two data plates (8) from door (3).

c. Assembly.



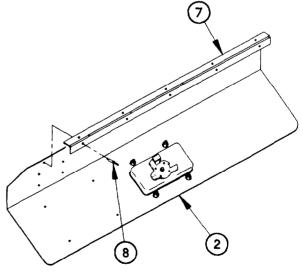
(3) Install hinge (7) on door (2) with five rivets (8).



NOTE

Perform step (1) on right side door,

- (1) Install two data plates (1) on door (2) with eight rivets (3).
- (2) Install door latch (4) on door (2) with four screws (5) and nuts (6).

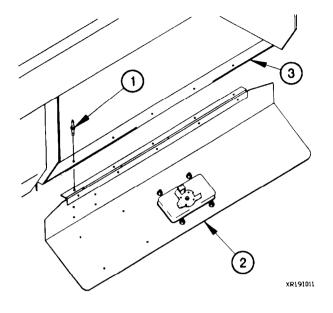


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16-18. PANEL STOWAGE DOOR ASSEMBLY REPAIR (CONT)

d. Installation.

Install door (1) on stowage box (2) with five rivets (3).



16-19. M1079 VAN BODY REPLACEMENT

This task covers:

a. Removal

b. Installation

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). Heater kit removed, if equipped (para 20-41). Air conditioner kit removed, if equipped (para 20-81).

Tools and Special Tools

Sling, Eye (4) (Item 64, Appendix B) Link, Chain, End (Item 36, Appendix B) Tool Kit, Genl Mech (Item 44, Appendix C)

Materials/Parts

Rope, Fibrous (Item 53, Appendix D)
Pad, Cushioning (2) (Item 194, Appendix G)
Pad, Cushioning (2) (Item 195, Appendix G)

Personnel Required

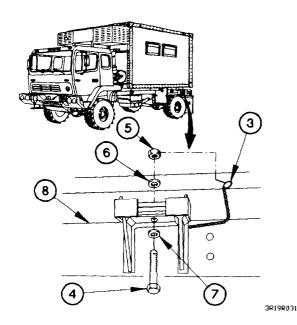
(3)

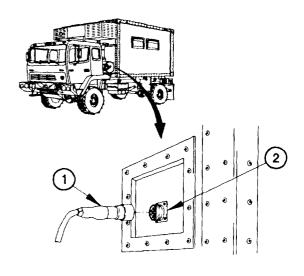
a. Removal.

WARNING

Remove all loose equipment from van body. Failure to comply may result in injury to personnel or damage to equipment.

(1) Disonnect connector P173 (1) from connector J173 (2).





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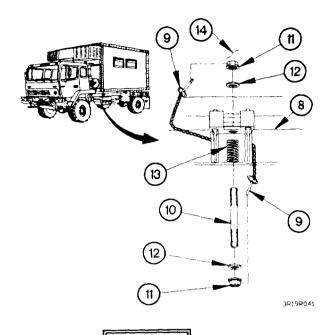
NOTE

Left and right van body mounting hardware is removed the same way. Left side shown.

- (2) Remove lynch pin (3) from bolt (4).
- (3) Remove slotted nut (5), washer (6), bolt (4), and washer (7) from sub-frame (8).

16-19. M1079 VAN BODY REPLACEMENT (CONT)

- (4) Remove two lynch pins (9) from stud (10).
- (5) Remove two slotted nuts (11), washers (12), stud (10), and spring (13) from sub-frame (8).
- (6) Perform steps (2) through (5) on right side of van body.



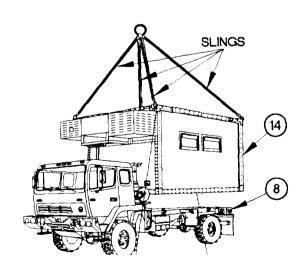
WARNING

- Van body weighs approximately 3,360 lbs (1525 kgs) empty. Attach a suitable lifting device prior to removal. Failure to comply may result in serious injury or death to personnel.
- Guide ropes must be attached at opposite corners of van body to aid in controlling van body during removal. Failure to comply may result in serious injury or death to personnel.
- Center of gravity will change depending on equipment installed in van body. Attach and adjust lifting device so that van body lifts level. Failure to comply may result in serious injury or death to personnel or damage to equipment.

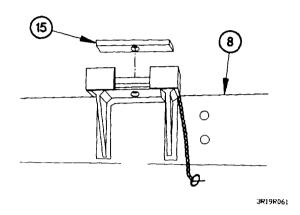
NOTE

Step (7) requires the aid of two assistants.

(7) Remove van body (14) from sub-frame (8).



(8) Remove two cushioning pads (15) from rear of subframe (8). Discard cushioning pads.



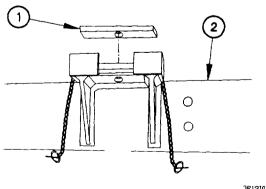
0

(10) Remove two cushioning pads (16) from front of subframe (8). Discard cushioning pads.

b. Installation.

(1) Install two cushioning pads (1) front of on sub-frame (2).

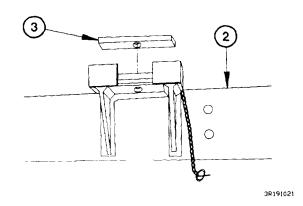
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16-19. M1079 VAN BODY REPLACEMENT (CONT)

(2) Install two cushioning pads (3) on rear of sub-frame (2).



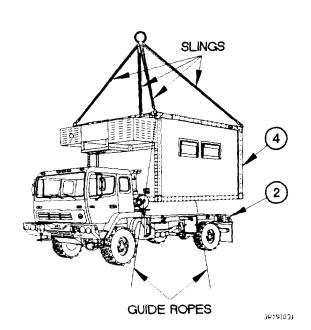
WARNING

- Van body weighs approximately 3,360 lbs (1525 kgs) empty. Attach a suitable lifting device prior to removal. Failure to comply may result in serious injury or death to personnel.
- Guide ropes must be attached at opposite corners of van body to aid in controlling van body during installation. Failure to comply may result in serious injury or death to personnel.
- Center of gravity will change depending on equipment installed in van body. Attach and adjust lifting device so that van body lifts level. Failure to comply may result in serious injury or death to personnel or damage to equipment.

NOTE

Step (3) requires the aid of two assistants.

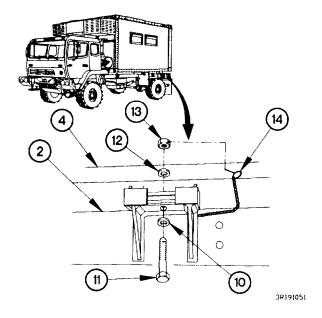
(3) Position van body (4) on sub-frame (2).

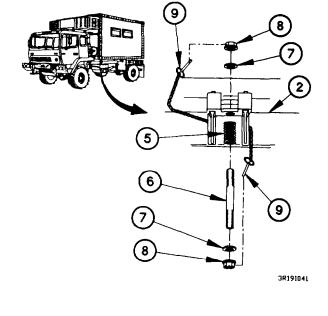


NOTE

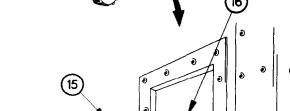
Left and Right van body mounting hardware is installed the same way. Left side shown.

- (4) Install spring (5), stud (6), two washers (7), and castellated nuts (8) in sub-frame (2).
- (5) Install two lynch pins (9) in stud (6).





- (6) Install washer (10), bolt (11), washer (12), and castellated nut (13) in sub-frame (2).
- (7) Install lynch pin (14) in bolt (11).
- (8) Perform steps (4) through (7) on right side of van body.



(9) Connect connector P173 (15) to connector J173 (16).

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TM 9-2320-365-20-4

16-19. M1079 VAN BODY REPLACEMENT (CONT)

c. Follow-On Maintenance.

- (1) Install air conditioner kit, if equipped (para 20-81).
- (2) Install heater kit, if equipped (para 20-41).
- (3) Connect batteries (para 7-48).
- (4) Connect AC power (TM 9-2320-365-10).

End of Task.

16-20. M1079 UPPER SUB-FRAME REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Van body removed (para 16-19).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C) Goggles, Industrial (Item 15, Appendix C) Trestle, Motor Vehicle Maintenance (8) (Item 45, Appendix C)

Sling, Eye (4) (Item 64, Appendix B) Link, Chain, End (Item 36, Appendix B)

Materials/Parts

Rope, Fibrous (as required) (Item 53, Appendix D) Lockwasher (36) (Item 92, Appendix G) Rubber Strip (as required) (Item 56, Appendix D)

Personnel Required

(3)

a. Removal.

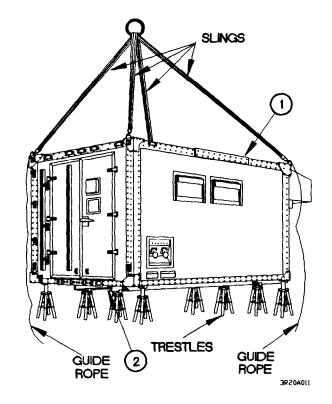
WARNING

- Van body weighs approximately 3360 lbs (1525 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in serious injury or death to personnel.
- Guide ropes must be attached at opposite corners of van body to aid in controlling van body during lifting. Failure to comply may result in serious injury or death to personnel.

NOTE

Step (1) requires the aid of two assistants.

- (1) Position van body (1) on four trestles.
- (2) Position four trestles under upper sub-frame (2).

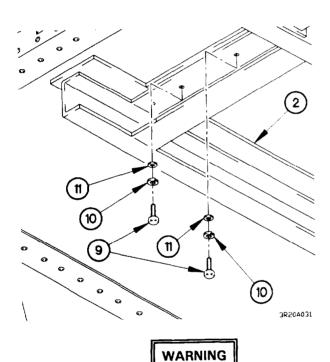


16-20. M1079 UPPER SUB-FRAME REPLACEMENT (CONT)

WARNING

Wear appropriate eye protection when working under vehicle due to the possibility of falling debris. Failure to comply may result in injury to personnel.

- (3) Remove 28 screws (3), lockwashers (4), and washers (5) from upper sub-frame (2). Discard lockwashers.
- (4) Remove six screws (6), lockwashers (7), and washers (8) from upper sub-frame (2). Discard lockwashers.

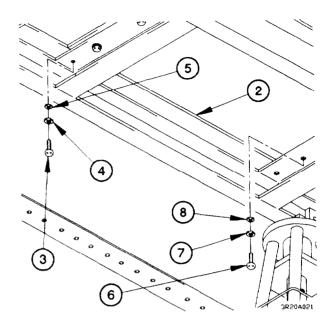


Van body weighs approximately 3360 lbs (1525 kgs) attach a suitable lifting device of adequate capacity prior to removal. Failure to comply may result in serious injury or death to personnel.

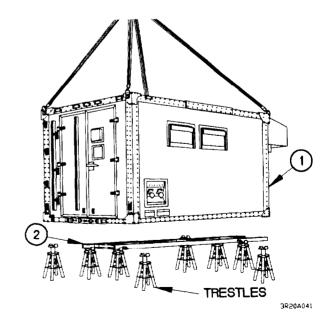
NOTE

Step (6) requires the aid of two assistants.

(6) Remove van body (1) from upper sub-frame (2).

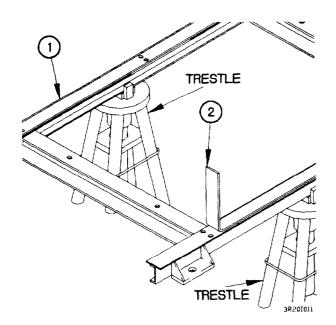


(5) Remove two screws (9), lockwashers (10), and washers (11) from upper sub-frame (2). Discard lockwashers.



(7) Remove rubber strip (12) from upper sub-frame (2). Discard rubber strip.

b. Installation.



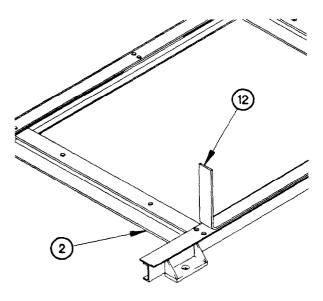
WARNING

- Van body weighs approximately 3360 lbs (1525 kgs). Attach a suitable lifting device prior to installation. Failure to comply may result in serious injury or death to personnel.
- Guide ropes must be attached at opposite corners of van body to aid in controlling van body during lifting. Failure to comply may result in serious injury or death to personnel.

NOTE

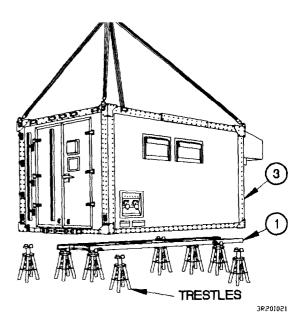
Step (3) requires the aid of two assistants.

- (3) Position van body (3) on upper sub-frame (1).
- (4) Position four trestles under van body (3).



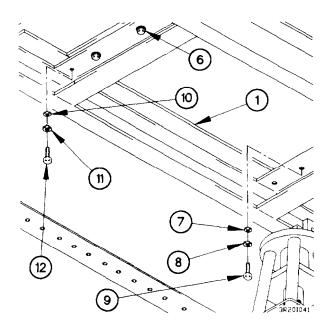
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- (1) Position upper sub-frame on four trestles.
- (2) Install rubber strip (2) on upper sub-frame (1).



16-20. M1079 UPPER-SUB FRAME REPLACEMENT (CONT)

(5) Position two washers (4), lockwashers (5), and screws (6) in upper sub-frame (1).



NOTE

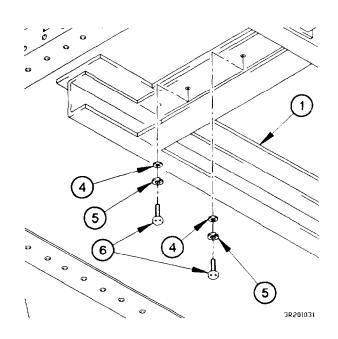
Step (9) requires the aid of two assistants.

(9) Remove van body (3) from trestles.

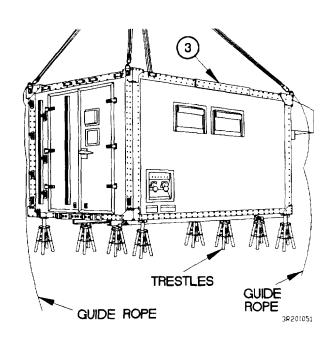
c. Follow-On Maintenance.

Install van body on M1079 upper sub-frame (para 16-19).

End of Task.



- (6) Position six washers (7), lockwashers (8), and screws (9) in upper sub-frame (1).
- (7) Position 28 washers (10), lockwashers (11), and screws (12) in upper sub-frame (1).
- (8) Tighten two screws (6), six screws (9), and 28 screws (12) to 24-26 lb-ft (33-35 N•m).



16-21. M1079 LOWER SPREADER BAR REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Splash guard removed (right side lower spreader bar) (para 16-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)

Materials/Parts

Grease, Automotive and Artillery (Item 23, Appendix D)

Personnel Required

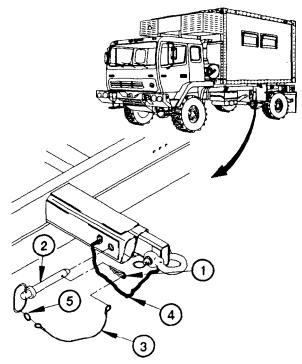
(2)

a. Removal.

NOTE

Left and right lower spreader bars are removed the same way. Left side shown.

- (1) Remove lynch pin (1) from retaining pin (2).
- (2) Remove lynch pin (1) from lanyard (3).
- (3) Remove lanyard (3) from chain (4).
- (4) Remove split ring (5) from retaining pin (2).
- (5) Remove split ring (5) from lanyard (3).



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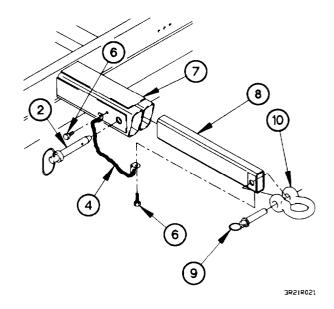
16-21. M1079 LOWER SPREADER BAR REPLACEMENT (CONT)

- (6) Remove two screws (6) and chain (4) from sub-frame (7) and spreader bar (8).
- (7) Remove retaining pin (2) from spreader bar (8).

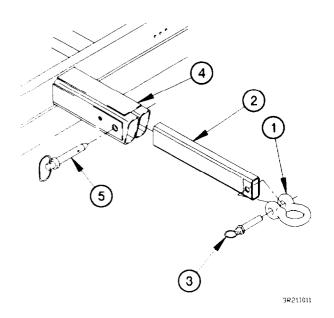
NOTE

Step (8) requires the aid of an assistant.

- (8) Remove spreader bar (8) from sub-frame (7).
- (9) Remove pin (9) and shackle (10) from spreader bar (8).



b. Installation.



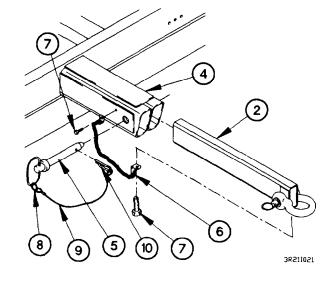
- (1) Install shackle (1) on spreader bar (2) with pin (3).
- (2) Apply a coating of grease to all sides of spreader bar (2).

NOTE

Step (3) requires the aid of an assistant.

- (3) Install spreader bar (2) in sub-frame (4).
- (4) Install retaining pin (5) in spreader bar (2).

- (5) Position chain (6) on sub-frame (4) and spreader bar (2) with two screws (7).
- (6) Tighten two screws (7) to 13-17 lb-ft (18-23 N•m).
- (7) Install split ring (8) on lanyard (9) in (5).
- (9) Route lanyard (9) through chain (6).
- (10) Install lynch pin (10) on lanyard (9).
- (11) Install lynch pin (10) in retaining pin (5).



c. Follow-On Maintenance.

Install splash guard (right side lower spreader bar) (para 16-10).

End of Task.

16-22. M1079 POD DOOR AND PANELS REPLACEMENT

This task covers:

a. Removalb. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Sling spreader and guides removed (for top rear panels) (para 16-24). Cab raised (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) Drill Set, Twist (Item 6, Appendix C) Tool Kit, Blind Rivet (Item 43, Appendix C)

Materials/Parts

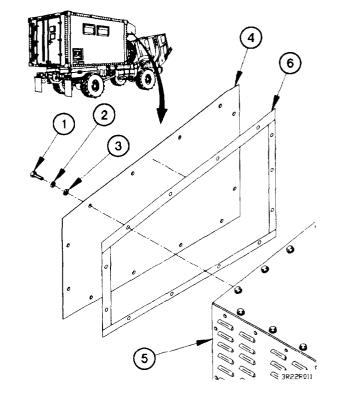
Lockwasher (as required) (Item 82, Appendix G) Rivet, Blind (2) (Item 226, Appendix G) Rivet, Blind (10) (Item 233, Appendix G) Rubber Strip (as required) (Item 55, Appendix D)

WARNING

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

a. Removal.

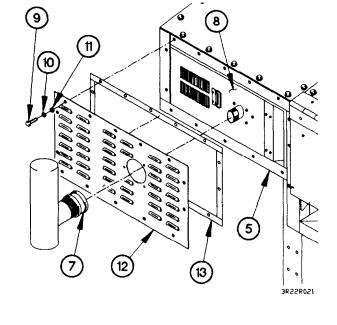
- (1) Remove 13 screws (1), lockwashers (2), washers (3), and curbside side panel (4) from pod frame (5). Discard lockwashers.
- (2) Remove adhesive rubber strip (6) from curbside side panel (4). Discard adhesive rubber strip.

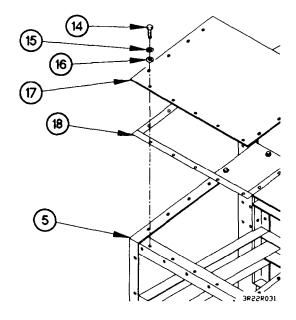


NOTE

Perform step (3) if heater kit is installed.

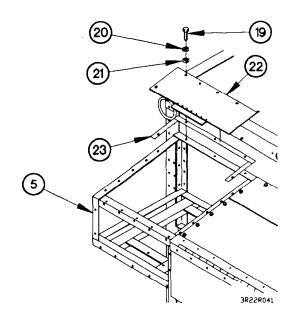
- (3) Remove heater exhaust pipe coupler (7) from heater (8).
- (4) Remove 14 screws (9), lockwashers (10), washers (11), and curbside front panel (12) from pod frame (5). Discard lockwashers.
- (5) Remove adhesive rubber strip (13) from curbside front panel (12). Discard adhesive rubber strip.





- (6) Remove 13 screws (14), lockwashers (15), washers (16), and curbside top front panel (17) from pod frame (5). Discard lockwashers.
- (7) Remove adhesive rubber strip (18) from curbside top front panel (17). Discard adhesive rubber strip.

- (8) Remove five screws (19), lockwashers (20), washers (21), and curbside top rear panel (22) from pod frame (5). Discard lockwashers.
- (9) Remove adhesive rubber strip (23) from curbside top rear panel (22). Discard adhesive rubber strip.

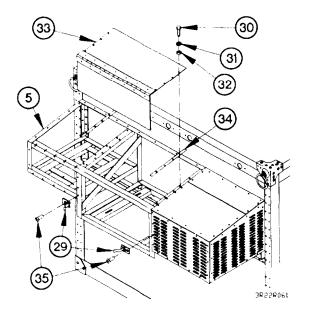


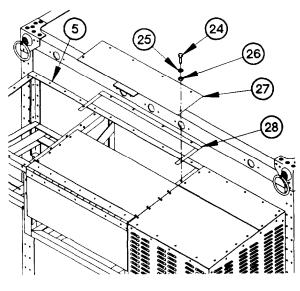
16-22. M1079 POD DOOR AND PANELS REPLACEMENT (CONT)

NOTE

Perform steps (10) through (17) on van bodies serial number 191 and higher.

- (10) Remove eight screws (24), lockwashers (25), washers (26), and center top rear panel (27) from pod frame (5). Discard lockwashers.
- (11) Remove adhesive rubber strip (28) from center top rear panel (27). Discard adhesive rubber strip.

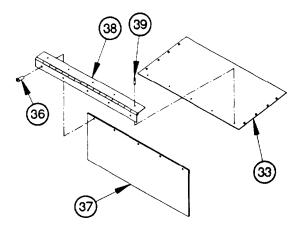




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- (12) Open two latches (29) on pod frame (5).
- (13) Remove eight screws (30), lockwashers (31), washers (32), and center top front panel (33) from pod frame (5). Discard lockwashers.
- (14) Remove adhesive rubber strip (34) from center top front panel (33). Discard adhesive rubber strip.
- (15) Remove two rivets (35) and latches (29) from pod frame (5).

- (16) Remove five rivets (36) and center front panel door (37) from hinge (38).
- (17) Remove five rivets (39) and hinge (38) from center top front panel (33).

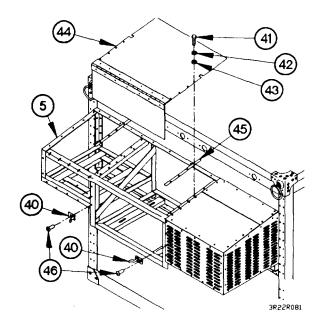


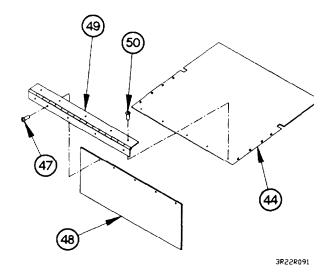
3R22R071

NOTE

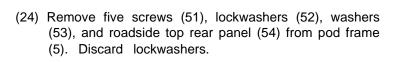
Perform steps (18) through (23) on van body serial numbers 001 through 190.

- (18) Open two latches (40) on pod frame (5).
- (19) Remove four screws (41), lockwashers (42), washers (43), and center top panel (44) from pod frame (5). Discard lockwashers.
- (20) Remove adhesive rubber tape (45) from center top panel (44). Discard adhesive rubber tape.
- (21) Remove two rivets (46) and latches (40) from pod frame (5).

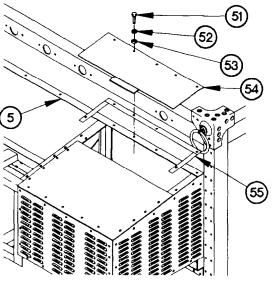




- (22) Remove five rivets (47) and center front panel door (48) from hinge (49).
- (23) Remove five rivets (50) and hinge (49) from center top panel (44).



(25) Remove adhesive rubber strip (55) from roadside top rear panel (54). Discard adhesive rubber strip.



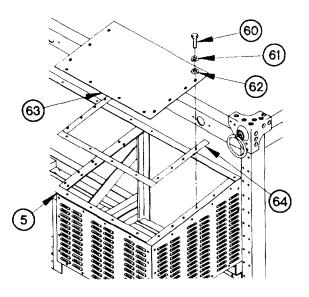
3R22R101

16-22. M1079 POD DOOR AND PANELS REPLACEMENT (CONT)

NOTE

Perform steps (26) and (27) on van bodies serial number 191 and higher.

- (26) Remove 13 screws (56), lockwashers (57), washers (58), and roadside top front panel (59) from pod frame (5). Discard lockwashers.
- (27) Remove adhesive rubber strip (60) from roadside top front panel (59). Discard adhesive rubber strip.

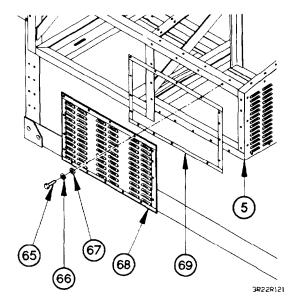


3R22R131

NOTE

Perform steps (28) and (29) on van body serial numbers 001 through 190.

- (28) Remove nine screws (60), lockwashers (61), washers (62), and roadside top front panel (63) from pod frame (5). Discard lockwashers.
- (29) Remove adhesive rubber tape (64) from roadside top front panel (63). Discard adhesive rubber tape.

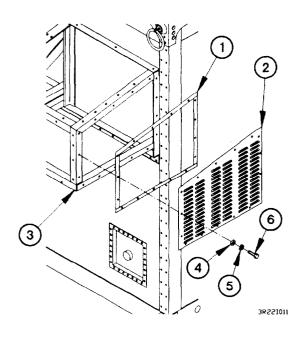


- (30) Remove 16 screws (65), lockwashers (66), washers (67), and roadside front panel (68) from pod frame (5). Discard lockwashers.
- (31) Remove adhesive rubber strip (69) from roadside front panel (68). Discard adhesive rubber strip.

- (32) Remove 15 screws (70), lockwashers (71), washers (72), and roadside side panel (73) from pod frame (5). Discard lockwashers.
- (33) Remove adhesive rubber strip (74) from roadside side panel (73). Discard adhesive rubber strip.

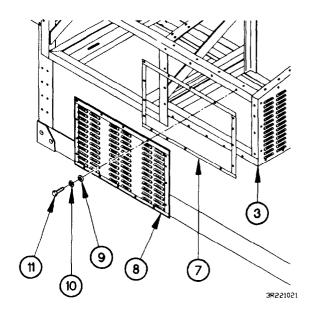
72 70 3R22R14)

b. Installation.



- (1) Install adhesive rubber strip (1) on roadside side panel (2).
- (2) Install roadside side panel (2) on pod frame (3) with 15 washers (4), lockwashers (5), and screws (6).

- (3) Install adhesive rubber strip (7) on roadside front panel (8).
- (4) Install roadside front panel (8) on pod frame (3) with 16 washers (9), lockwashers (10), and screws (11).



16-22. M1079 POD DOOR AND PANELS REPLACEMENT (CONT)

(5) Install adhesive rubber strip (12) on roadside top front panel (13).

NOTE

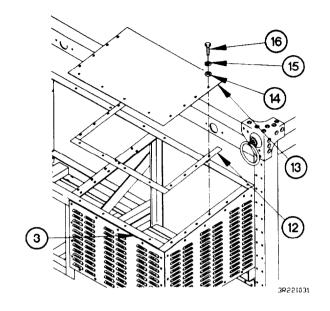
Perform step (6) on van bodies serial number 191 and higher.

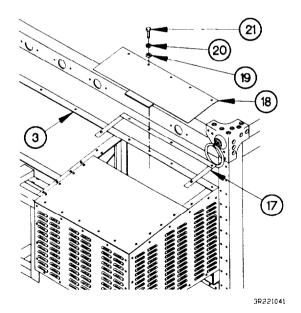
(6) Install roadside top front panel (13) on pod frame (3) with 13 washers (14), lockwashers (15), and screws (16).

NOTE

Perform step (7) on van body serial numbers 001 through 190.

(7) Install roadside top front panel (13) on pod frame (3) with nine washers (14), lockwashers (15), and screws (16).



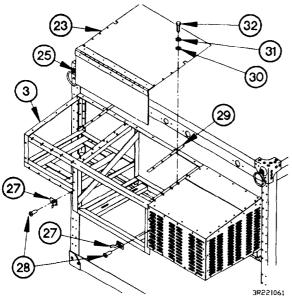


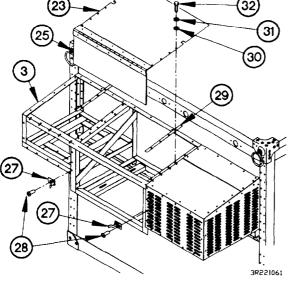
- (8) Install adhesive rubber strip (17) on roadside top rear panel (18).
- (9) Install roadside top rear panel (18) on pod frame (3) with five washers (19), lockwashers (20), and screws (21).

NOTE

Perform steps (10) through (15) on van body serial numbers 001 through 190.

- (10) Install hinge (22) on center top front panel (23) with five rivets (24).
- (11) Install center front panel door (25) on hinge (22) with five rivets (26).

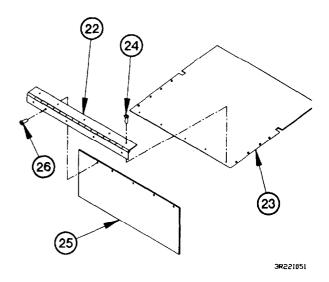




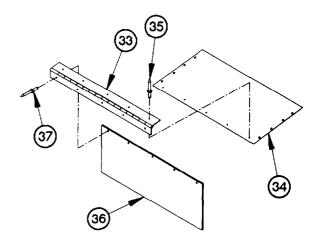
NOTE

Perform steps (16) through (23) on van bodies serial number 191 and higher.

- (16) Install hinge (33) on center top panel (34) with five rivets (35).
- (17) Install center front panel door (36) on hinge (33) with five rivets (37).



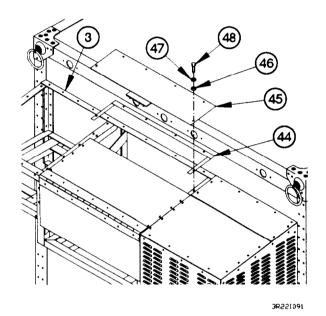
- (12) Install two latches (27) on pod frame (3) with two rivets (28).
- (13) Install adhesive rubber strip (29) on center top front panel (23).
- (14) Install center top front panel (23) on pod frame (3) with four washers (30), lockwashers (31), and screws (32).
- (15) Close two latches (27) on center front panel door (25).

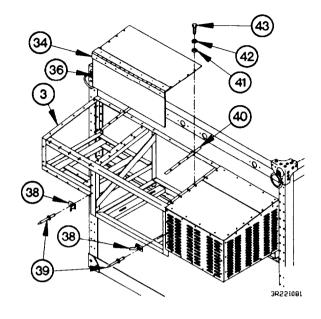


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16-22. M1079 POD DOOR AND PANELS REPLACEMENT (CONT)

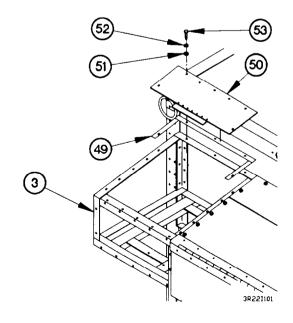
- (18) Install two latches (38) on pod frame (3) with two rivets (39).
- (19) Install adhesive rubber tape (40) on center top panel (34).
- (20) Install center top panel (34) on pod frame (3) with eight washers (41), lockwashers (42), and screws (43).
- (21) Close two latches (38) on center front panel door (36).



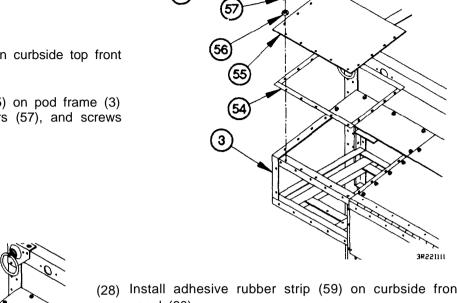


- (22) Install adhesive rubber strip (44) on center top rear panel (45).
- (23) Install center top rear panel (45) on pod frame (3) with eight washers (46), lockwashers (47), and screws (48).

- (24) Install adhesive rubber strip (49) on curbside top rear panel (50).
- (25) Install curbside top rear panel (50) on pod frame (3) with five washers (51), lockwashers (52), and screws (53).



- (26) Install adhesive rubber strip (54) on curbside top front panel (55).
- (27) Install curbside top front panel (55) on pod frame (3) with 13 washers (56), lockwashers (57), and screws (58).

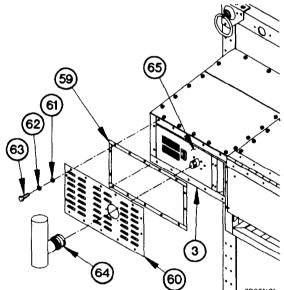


- (28) Install adhesive rubber strip (59) on curbside front panel (60).
- (29) Install curbside front panel (60) on pod frame (3) with 14 washers (61), lockwashers (62), and screws (63).

NOTE

Perform step (30) if heater kit installed.

(30) Install heater exhaust pipe coupler (64) on heater (65).

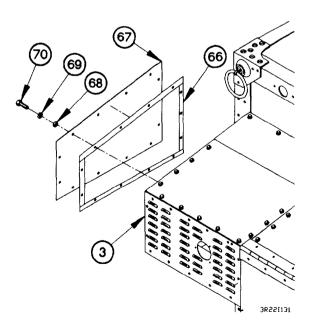


- (30) Install adhesive rubber strip (66) on curbside side panel (67).
- (31) Install curbside side panel (67) on pod frame (3) with 13 washers (68), lockwashers (69), and screws (70).

c. Follow-On Maintenance.

- (1) Lower cab (TM 9-2320-365-10).
- (2) Install sling spreader and guides, if removed (para 16-24).





16-23. M1079 POD FRAME REPLACEMENT/REPAIR

This task covers:

- a. Removal
- b. Disassembly
- c. Assembly

- d. Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Air conditioner kit removed, if equipped (para 20-81).

Pod doors and panels removed (para 16-22). Heater kit removed, if equipped (para 20-41). Fan assembly removed, if equipped (para 16-67).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Goggles, Industrial (Item 15, Appendix C) Drill, Electric (Item 7, Appendix C) Drill Set, Twist (Item 6, Appendix C) Tool Kit, Blind Rivet (Item 43, Appendix C) Sling, Cargo (2) (Item 31, Appendix C)

Materials/Parts

Sealing Compound (Item 67, Appendix D)
Nut, Blind Rivet (96) (Item 110, Appendix G)
Screw, Machine (96) (Item 241, Appendix G)
Washer, Flat (96) (Item 270, Appendix G)
Lockwasher (96) (Item 97, Appendix G)
Rivet, Blind (as required) (Item 230, Appendix G)

Personnel Required

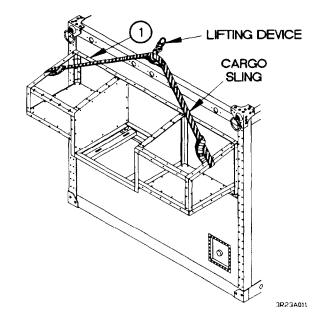
(2)

WARNING

- Wear appropriate eye protection when removing rivets. Failure to comply may result in injury to personnel.
- Pod frame weighs approximately 80 lbs (36 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

a. Removal.

(1) Remove sealing compound from edges of pod frame (1).



NOTE

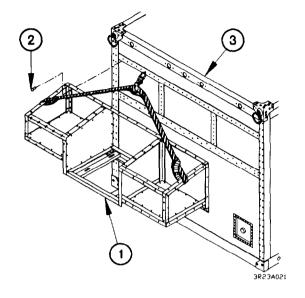
Steps (2) and (3) require the aid of an assistant.

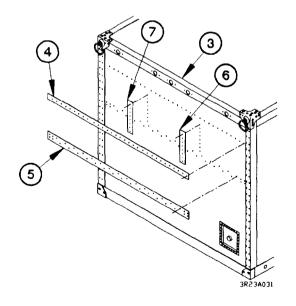
(2) Remove 96 rivets (2) from pod frame (1).

CAUTION

Use care when removing pod frame from van body wall. Start at one corner and slowly work pod frame loose from van body corner angles. Do not pry against van body skin. Failure to comply may result in damage to equipment.

(3) Remove pod frame (1) from van body wall (3).



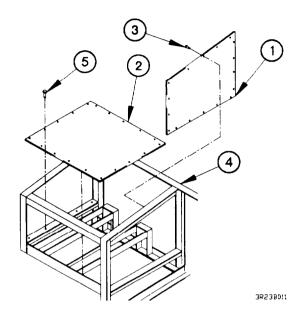


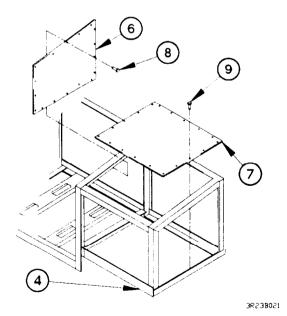
- (4) Remove spacers (4,5,6, and 7) from van body wall (3).
- (5) Remove sealing compound from spacers (4,5,6, and 7) and van body wall (3).

16-23. M1079 POD FRAME REPLACEMENT/REPAIR (CONT)

b. Disassembly

- (1) Remove sealing compound from edges of curbside inside panel (1) and curbside bottom panel (2).
- (2) Remove 14 blind rivets (3) and curbside inside panel (1) from pod frame (4).
- (3) Remove 26 blind rivets (5) and curbside bottom panel (2) from pod frame (4).
- (4) Remove sealing compound from curbside inside panel (1), curbside bottom panel (2), and pod frame (4).





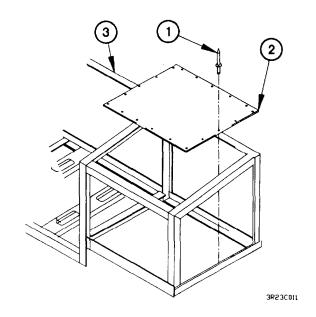
- (5) Remove sealing compound from edges of roadside inside panel (6) and roadside bottom panel (7).
- (6) Remove 12 blind rivets (8) and roadside inside panel (6) from pod frame (4).
- (7) Remove 26 blind rivets (9) and roadside bottom panel (7) from pod frame (4).
- (8) Remove sealing compound from roadside inside panel (6), roadside bottom panel (7) and pod frame (4).

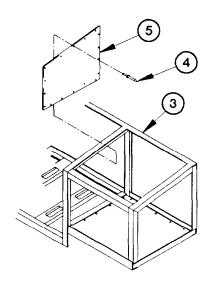
c. Assembly.

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.

- (1) Apply sealing compound to 26 blind rivets (1) and roadside bottom panel (2).
- (2) Install roadside bottom panel (2) on pod frame (3) with 26 blind rivets (1).





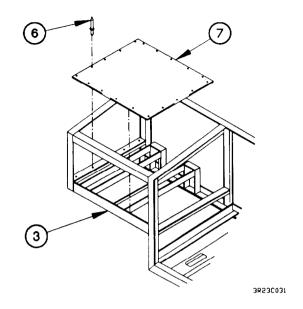
- (3) Apply sealing compound to 12 blind rivets (4) and roadside inside panel (5).
- (4) Install roadside inside panel (5) on pod frame (3) with 12 blind rivets (4).

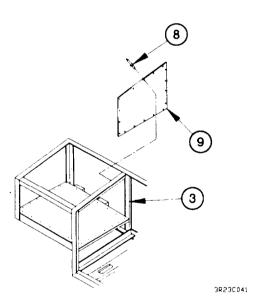
16-23. M1079 POD FRAME REPLACEMENT/REPAIR (CONT)

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.

- (5) Apply sealing compound to 26 blind rivets (6) and curbside bottom panel (7).
- (6) Install curbside bottom panel (7) on pod frame (3) with 26 blind rivets (6).





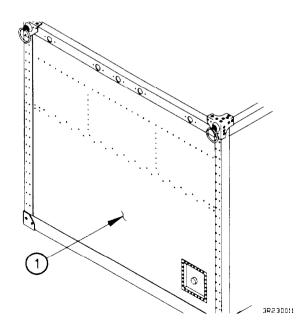
d. Installation.

CAUTION

Use Q size twist drill bit to perform steps (1) and (2). Failure to comply may result in damage to equipment.

(1) Enlarge 96 holes in van body wall (1).

- (7) Apply sealing compound to 14 blind rivets (8) and curbside inside panel (9).
- (8) Install curbside panel (9) on pod frame (3) with 14 blind rivets (8).

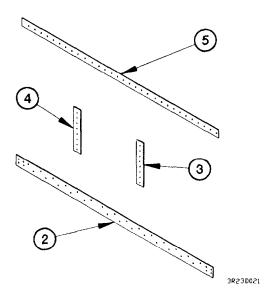


(2) Enlarge 71 holes in spacers (2,3,4, and 5).

CAUTION

Use 100 degree countersink to perform steps (3) and (4). Failure to comply may result in damage to equipment.

(3) Countersink 71 holes in spacers (2,3,4, and 5).



(4) Countersink 25 holes in van body trim angle (6).

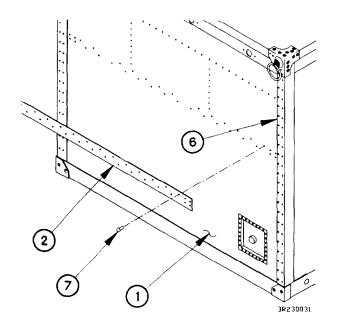
WARNING

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.

NOTE

Sealing compound will become unusable two hours after being mixed.

- (5) Apply sealing compound to 29 blind rivet nuts (7) and spacer (2).
- (6) Install spacer (2) on van body wall (1) with 29 blind rivet nuts (7).

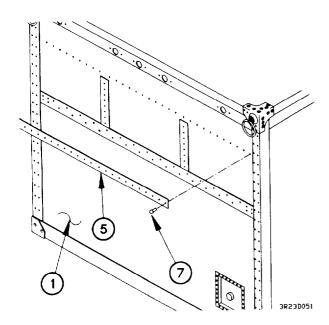


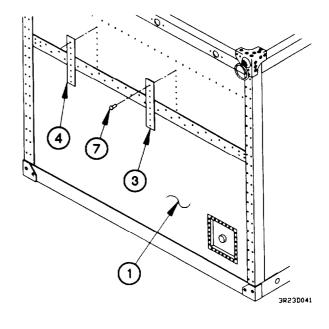
16-23. M1079 POD FRAME REPLACEMENT/REPAIR (CONT)

WARNING

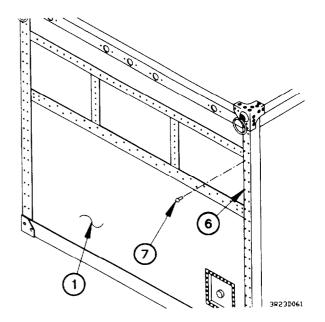
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

- (7) Apply sealing compound to 15 blind rivet nuts (7) and spacers (3 and 4).
- (8) Install spacers (3 and 4) on van body wall (1) with 15 blind rivet nuts (7).





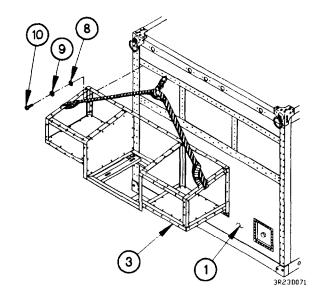
- (9) Apply sealing compound to 52 blind rivet nuts (7) and spacer (5).
- (10) Install spacer (5) on van body wall (1) with 27 blind rivet nuts (7).



(11) Install 25 blind rivet nuts (7) on van body trim angle (6).

WARNING

- Do not install pod frame on van body for 72 hours after installing blind rivet nuts and spacers. Failure to comply may result in injury to personnel and/or damage to equipment.
- Pod frame weighs approximately 80 lbs. (36 kg). Attach a suitable lifting device prior to installation. Failure to comply may result in injury to personnel and/or damage to equipment.
- (12) Install pod frame (3) on van body wall (1) with 96 washers (8), lockwashers (9), and screws (10).



e. Follow-On Maintenance.

- (1) Install heater kit, if equipped (para 20-41).
- (2) Install air conditioner kit, if equipped (para 20-81).
- (3) Install pod doors and panels (para 16-22).
- (4) Install fan assembly (para 16-67).
- (5) Install van body (para 16-19).

End of Task.

TM 9-2320-365-20-4

16-24. M1079 SLING SPREADER AND GUIDES REPLACEMENT

This task covers:

a. Removal

b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Front clearance and marker lights removed (para 16-60).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Sling, Cargo (Item 31, Appendix C)

Materials/Parts

Lockwasher (42) (Item 88, Appendix G) Sealing Compound (Item 67, Appendix D)

Personnel Required

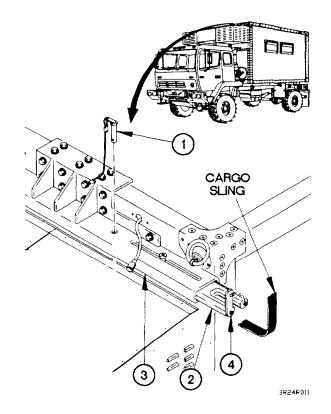
(2)

a. Removal.

NOTE

Both sides of spreader bar are rigged the same way. Left side shown.

- (1) Remove clevis pin (1) from sling guide (2).
- (2) Extend sling guide (2) from sling spreader (3).
- (3) Install clevis pin (1) in sling guide (2).
- (4) Open end cap (4) on sling guide (2).
- (5) Position cargo sling in sling guide (2).
- (6) Close end cap (4) on sling guide (2).
- (7) Perform steps (1) through (6) on right side of sling spreader (3).



(8) Remove sealing compound from edges of sling spreader (3).

WARNING

Sling spreader weighs approximately 200 lbs (91 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

CAUTION

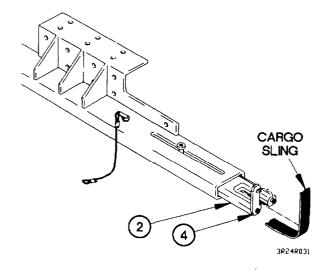
Use care when removing sling spreader. Failure to comply may result in damage to marker light wiring or connectors.

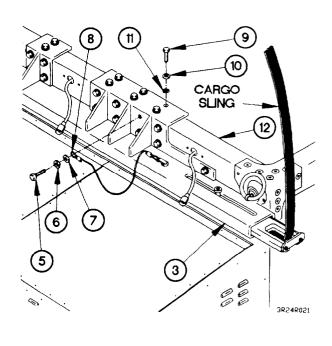
- (9) Remove two screws (5), lockwashers (6), washers (7), and lanyards (8) from sling spreader (3). Discard lockwashers.
- (10) Remove 40 screws (9), lockwashers (10), and washers (11) from sling spreader (3). Discard lockwashers.

NOTE

Step (11) requires the aid of an assistant.

- (11) Remove sling spreader (3) from van body (12).
- (12) Remove sealing compound from van body (12).





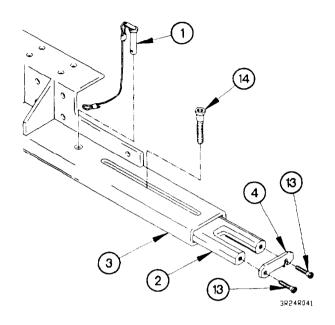
- (13) Open two end caps (4) on sling guides (2).
- (14) Remove cargo sling from two sling guides (2).

16-24. M1079 SLING SPREADER AND GUIDES REPLACEMENT (CONT)

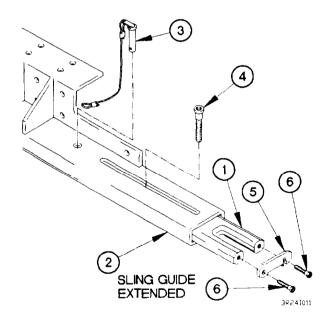
NOTE

Both sling guides are removed the same way. Left side shown.

- (15) Remove two screws (13) and end cap (4) from sling guide (2).
- (16) Remove screw (14) from sling guide (2).
- (17) Remove clevis pin (1) from sling guide (2).
- (18) Remove sling guide (2) from sling spreader (3).
- (19) Perform steps (15) through (18) on right side of sling spreader (3).



b. Installation.



NOTE

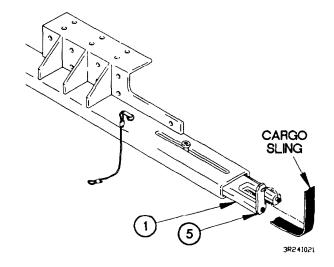
Both sling guides are installed the same way. Left side shown.

- (1) Install sling guide (1) in sling spreader (2).
- (2) Install clevis pin (3) in sling guide (1) with sling guide in extended position.
- (3) Install screw (4) in sling guide (1).
- (4) Install end cap (5) on sling guide (1) with two screws (6).
- (5) Perform steps (1) through (4) on right side of sling spreader (2).

NOTE

Both sides of sling spreader are rigged the same way. Left side shown.

- (6) Open end cap (5) on two sling guides (1).
- (7) Route cargo sling through two sling guides (1).
- (8) Close end cap (5) on two sling guides (1).



8 10 9 CARGO SLING 7 7 3R241031

WARNING

Sling spreader weighs approximately 200 lbs (91 kgs). Attach a suitable lifting device prior to installation. Failure to comply may result in injury to personnel or damage to equipment.

CAUTION

Use care when installing sling spreader. Failure to comply may result in damage to marker light wiring or connectors.

NOTE

Step (9) requires the aid of an assistant.

(9) Install sling spreader (2) on van body (7) with 40 washers (8), lockwashers (9), and screws (10).

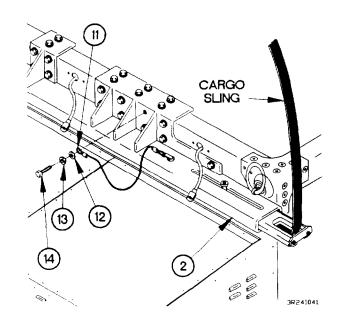
16-24. M1079 SLING SPREADER AND GUIDES REPLACEMENT (CONT)

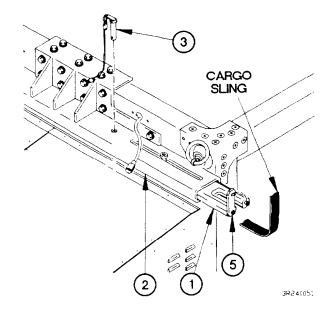
(10) Install two lanyards (11) on sling spreader (2) with two washers (12), lockwashers (13), and screws (14).

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.

(11) Apply sealing compound around edges of sling spreader (2).





- (12) Open end cap (5) on two sling guides (1).
- (13) Remove cargo sling from two sling guides (1).
- (14) Close end cap (5) on two sling guides (1).
- (15) Remove two clevis pins (3) from sling guides (1).
- (16) Retract two sling guides (1) in sling spreader (2).
- (17) Install two clevis pins (3) in sling guides (1).

c. Follow-On Maintenance.

Install front clearance and marker lights (para 16-60).

End of Task.

16-25. M1079 LIFT CASTING REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Sling spreader and guides removed (para 16-24). (Front lift casting replacement only).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Screwdriver Attachment, Socket Wrench (van bodies serial number 191 and higher) (Item 42, Appendix B) Screwdriver Attachment, Socket Wrench (van body serial numbers 001 through 190) (Item 43, Appendix B)

Materials/Parts

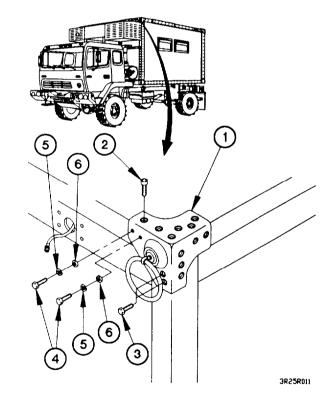
Lockwasher (2) (Item 81, Appendix G) Sealing Compound (Item 67, Appendix D)

a. Removal.

NOTE

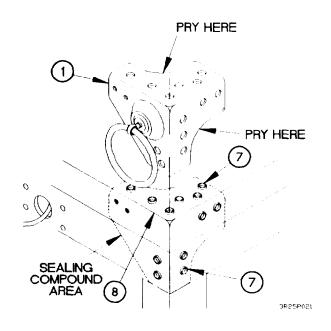
All four lift castings are removed the same way. Left front lift casting shown.

- (1) Remove sealing compound from edges of lift casting (1).
- (2) Remove 11 screws (2) from lift casting (1).
- (3) Remove two screws (3) from lift casting (1).
- (4) Remove two screws (4), lockwashers (5), and washers (6) from lift casting (1). Discard lockwashers.

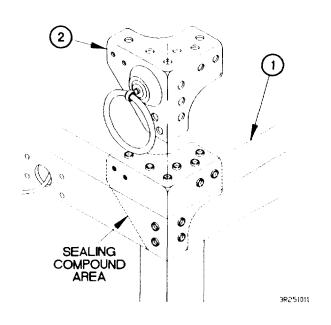


16-25. M1079 LIFT CASTING REPLACEMENT (CONT)

- (5) Pry lift casting (1) over blind rivet nut heads (7) on top and side of van body (8).
- (6) Remove lift casting (1) from van body (8).
- (7) Remove sealing compound from van body (8).



b. Installation.



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.

NOTE

Ail four lift castings are installed the same way. Left front lift casting shown.

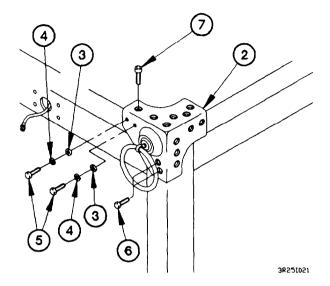
- (1) Apply sealing compound to van body (1) on area where lift casting (2) attaches.
- (2) Apply sealing compound to inside surface of lift casting (2).
- (3) Position lift casting (2) on van body (1).

- (4) Install two washers (3), lockwashers (4), and screws (5) in lift casting (2).
- (5) Install two screws (6) in lift casting (2).
- (6) Install 11 screws (7) in lift casting (2).

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.

(7) Apply sealing compound around edges of lift casting (2).



c. Follow-On Maintenance.

Install sling spreader and guides (front lift casting replacement only) (para 16-24).

16-26. M1079 SLING BEARING ANGLE REPLACEMENT

This task covers:

a. Removal b. Installation

INITIAL SETUP

Equipment Conditions

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

Materials/Parts

Sealing Compound (Item 67, Appendix D)

Tools and Special Tools

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

a. Removal.

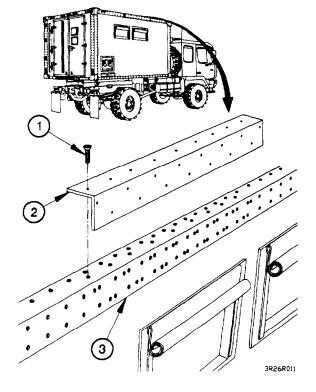
- (1) Remove 24 screws (1) from sling bearing angle (2).
- (2) Remove sealing compound from edges of sling bearing angle (2).
- (3) Remove sling bearing angle (2) from van body (3).
- (4) Remove sealing compound from van body (3).

b. Installation.

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.

- (1) Apply sealing compound to inside edge of sling bearing angle (2).
- (2) Install sling bearing angle (2) on van body (3) with 24 screws (1).
- (3) Apply sealing compound on edges of sling bearing angle (2).



16-27. M1079 ROOF BAIL HANDLE 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)

Materials/Parts

Sealing Compound (Item 67, Appendix D) Lockwasher (4) (Item 78, Appendix G)

a. Removal.

- (1) Remove sealing compound from heads of four screws (1).
- (2) Remove four screws (1), lockwashers (2), washers (3), and bail handle (4) from van body (5). Discard lockwashers.
- (3) Remove sealing compound from van body (5).

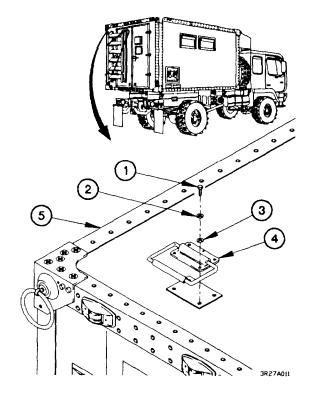
b. Installation.

(1) Install bail handle (4) on van body (5) with four washers (3), lockwashers (2), and screws (1).

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.

(2) Apply sealing compound around heads of four screws (1).



16-28. M1079 FOLDING STEP REPLACEMENT

This task covers:

a. Removal

b. Installation

INITIAL SETUP

Equipment Conditions

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

Materials/Parts

Lockwasher (2) (Item 80, Appendix G)

Tools and Special Tools

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

a. Removal.

NOTE

Van body is equipped with seven folding steps, All are removed the same way. One shown.

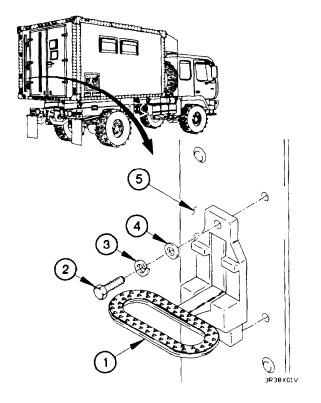
- (1) Lower folding step (1).
- (2) Remove two screws (2), lockwashers (3), washers (4), and folding step (1) from van body (5). Discard lockwashers.

b. Installation.

NOTE

Van body is equipped with seven folding steps. All are installed the same way. One shown.

- (1) Install folding step (1) on van body (5) with two washers (4), lockwashers (3), and screws (2).
- (2) Raise folding step (1).



16-29. M1079 RUBBER BUMPER AND TEE LATCH REPLACEMENT

This task covers:

- a. Rubber Bumper Removal
- b. Rubber Bumper Installation

- c . Tee Latch Removal
- d. Tee Latch 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)

Materials/Parts

Lockwasher (Item 81, Appendix G) Lockwasher (4) (Item 77, Appendix G) Sealing Compound (Item 67, Appendix D)

a. Rubber Bumper Removal.

NOTE

Left and right side rubber bumpers are removed the same way. Left side shown.

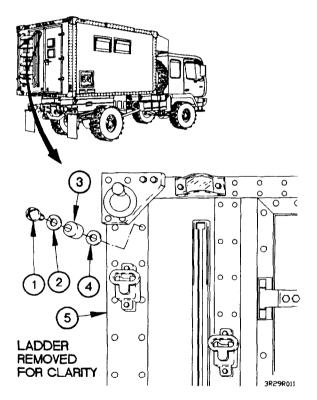
- (1) Remove screw (1), lockwasher (2), rubber bumper (3), and spacer (4) from van body (5). Discard lockwasher.
- (2) Remove sealing compound from van body (5).

b. Rubber Bumper Installation.

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.

- (1) Apply sealing compound to van body (5).
- (2) Install spacer (4) and rubber bumper (3) on van body (5) with lockwasher (2) and screw (1).



16-29. M1079 RUBBER BUMPER AND TEE LATCH REPLACEMENT (CONT)

c. Tee Latch Removal.

NOTE

Left and right side tee latches are removed the same way. Left side shown.

- (1) Remove sealing compound from edges of tee latch (1) and heads of four screws (2).
- (2) Remove four screws (2), lockwashers (3), washers (4), and tee latch (1) from van body (5). Discard lockwashers.
- (3) Remove sealing compound from van body (5) and tee latch (1).

d. Tee Latch Installation.

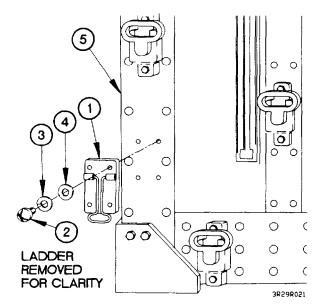
WARNING

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.

NOTE

Left and right side tee latches are installed the same way. Left side shown.

- (1) Apply sealing compound on tee latch (1).
- (2) Install tee latch (1) on van body (5) with four washers (4), lockwashers (3), and screws (2).
- (3) Apply sealing compound on edges of tee latch (1) and heads of screws (2).



16-30. M1079 DOOR SEAL, RETAINER, AND LATCH STRIKER REPLACEMENT

This task covers:

- a. Door Seal and Retainer Removal
- b. Door Seal and Retainer Installation
- c . Latch Striker Removal

- d. Latch Striker Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). LH and RH doors opened (TM 9-2320-365-10).

Tools and Special Tools

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

Drill Twist (Item 6, Appendix C)

Tool Kit, Blind Rivet (Item 43, Appendix C)

Goggles, Industrial (Item 15, Appendix C)

Materials/Parts

Rivet, Blind (3) (Item 233, Appendix G) Sealing Compound (Item 67, Appendix D) Seal, Door (Item 250, Appendix G) Lockwasher (2) (Item 82, Appendix G)

a. Door Seal and Retainer Removal.

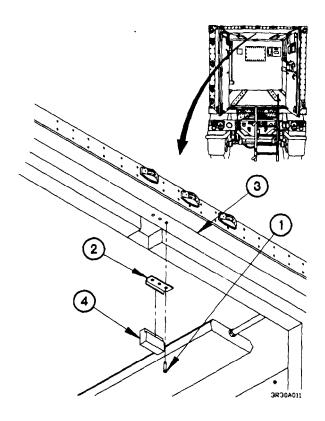


Wear appropriate eye protection when removing rivets. Failure to comply may result in injury to personnel.

NOTE

Top and bottom door seal and retainer are removed the same way. Top door seal and retainer shown.

- (1) Remove three rivets (1) and door seal retainer (2) from door jam (3).
- (2) Remove door seal (4) from door jam (3). Discard door seal.
- (3) Remove sealing compound from door jam (3).



16-30. M1079 DOOR SEAL AND RETAINER REPLACEMENT (CONT)

b. Door Seal and Retainer Installation.

WARNING

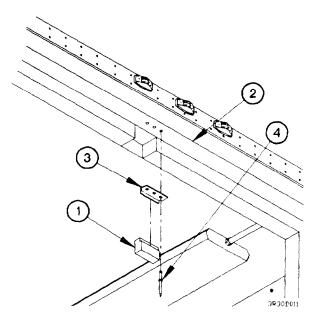
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

- (1) Apply sealing compound to door seal (1) and door jam (2).
- (2) Install door seal (1) on door jam (2).
- (3) Apply sealing compound to door seal retainer (3) and door jam (2).

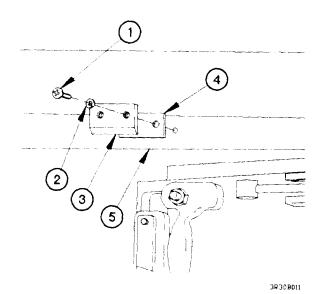
CAUTION

Coat all rivets with sealing compound prior to installation. Failure to comply may result in damage to equipment.

- (4) Apply sealing compound to three rivets (4).
- (5) Install door seal retainer (3) on door jam (2) with three rivets (4).



c. Latch Striker Removal.



NOTE

Top and bottom latch strikers are removed the same way. Top latch striker shown.

Remove two screws (1), lockwashers (2), latch striker (3) and shim (4) from van body wall (5). Discard lockwashers.

d. Latch Striker Installation.

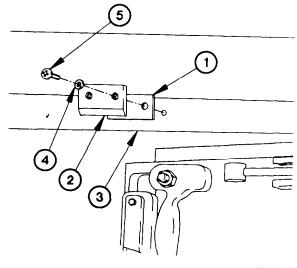
NOTE

Top and bottom latch strikers are installed the same way. Top latch striker shown.

Install shim (1) and latch striker (2) on van body wall (3) with two lockwashers (4) and screws (5).

c. Follow-On Maintenance.

Check for proper operation of LH and RH doors (TM 9-2320-365-10).



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16-31. M1079 HEATER AND AIR CONDITIONER COVER REPLACEMENT

This task covers:

- a. Heater Cover Removal
- b. Heater Cover Installation
- c. Air Conditioner Cover Removal
- d . Air Conditioner Cover Installation
- e . Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (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 (18) (Item 84, Appendix G) Lockwasher (30) (Item 84, Appendix G)

Personnel Required

(2)

a. Heater Cover Removal.

NOTE

The following step requires the aid of an assistant.

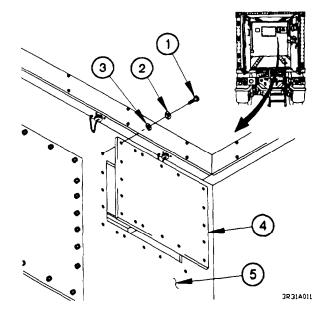
Remove 18 screws (1), lockwashers (2), washers (3), and heater cover (4) from van body wall (5). Discard lockwashers.

b. Heater Cover Installation.

NOTE

The following step requires the aid of an assistant.

Install heater cover (4) on van body wall (5) with 18 washers (3), lockwashers (2), and screws (1).



c. Air Conditioner Cover Removal.

NOTE

The following step requires the aid of an assistant.

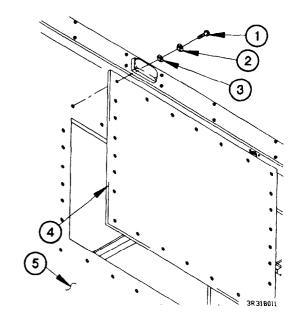
Remove 30 screws (1), lockwashers (2), washers (3), and air conditioner cover (4) from van body wall (5). Discard lockwashers.

d. Air Conditioner Cover Installation.

NOTE

The following step requires the aid of an assistant.

Install air conditioner cover (4) on van wall (5) with 30 washers (3), lockwashers (2), and screws (1).



e. Follow-On Maintenance.

Close LH and RH doors (TM 9-2320-365-10).

16-32. M1079 VENT COVER REPLACEMENT

This task covers:

a. Removal

b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (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)
Drill, Portable, Electric (Item 7, Appendix C)
Drill Set, Twist (Item 6, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Tool Kit, Blind Rivet (Item 44, Appendix C)

Materials/Parts

Sealing Compound (Item 67, Appendix D) Rivet (4) (Item 232, Appendix G)

Rivet (3) (Item 229, Appendix G) Rivet (3) (Item 231, Appendix G)

Rivet (12) (frame) (Item 227, Appendix G)

Seal (Item 244, Appendix G) Adhesive (Item 5, Appendix D)

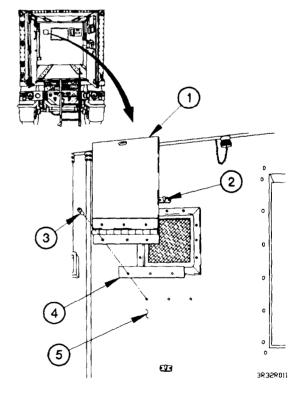
a. Removal.

- (1) Position vent cover (1) on stud base fastener (2).
- (2) Latch stud base fastener (2).

WARNING

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

- (3) Remove three rivets (3) from vent cover (1).
- (4) Unlatch stud base fastener (2).
- (5) Remove vent cover (1) and spacer (4) from van body wall (5).

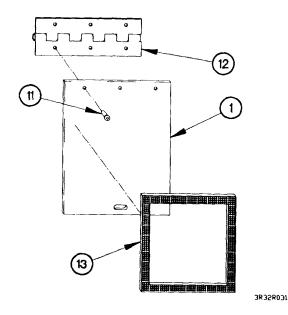


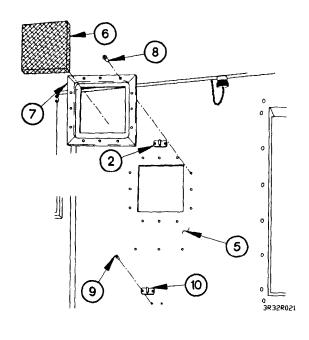
(6) Remove air filter (6) from filter frame (7).

WARNING

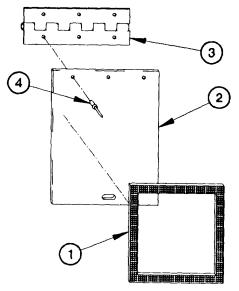
Wear appropriate eye protection when removing rivets. Failure to comply may result in injury to personnel.

- (7) Remove 12 rivets (8) and filter frame (7) from van body wall (5).
- (8) Remove two rivets (9) and stud base fasteners (2 and 10) from van body wall (5).





- (9) Remove three rivets (11) and hinge (12) from vent cover (1).
- (10) Remove seal (13) from vent cover (1). Discard seal.
- (11) Remove sealing compound from vent cover (1).



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b. Installation.

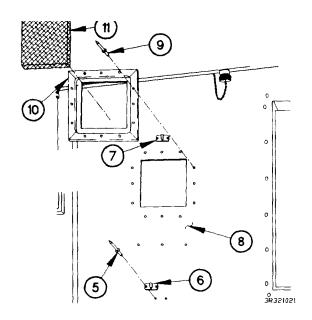
- (1) Install seal (1) on vent cover (2).
- (2) Install hinge (3) on vent cover (2) with three rivets (4).

16-32. M1079 VENT COVER REPLACEMENT (CONT)

CAUTION

Coat all rivets with sealing compound prior to installation. Failure to comply may result in damage to equipment.

- (3) Apply sealing compound on four rivets (5).
- (4) Install stud base fasteners (6 and 7) on van body wall (8) with four rivets (5).
- (5) Apply sealing compound on 12 rivets (9).
- (6) Install filter frame (10) on van body wall (8) with 12 rivets (9).
- (7) Install air filter (11) in filter frame (10).



- (8) Position fan vent cover (2) on stud base fastener (7).
- (9) Latch stud base fastener (7).

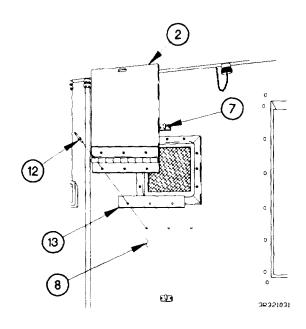
WARNING

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.

CAUTION

Coat all rivets with sealing compound prior to installation. Failure to comply may result in damage to equipment.

- (10) Apply sealing compound to three rivets (12).
- (11) Install spacer (13) and vent cover (2) on van body wall (8) with three rivets (12).



e. Follow-On Maintenance.

Close LH and RH doors (TM 9-2320-365-10).

16-33. M1079 AIR FILTER REPLACEMENT

This task covers:

a. Removal

b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Materials/Parts

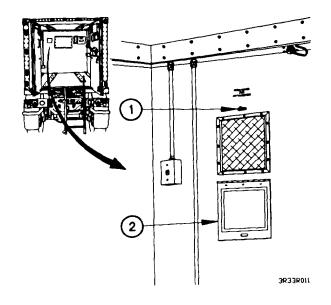
Filter, Air (fan) (Item 19, Appendix G) Filter, Air (RH door) (Item 20, Appendix G)

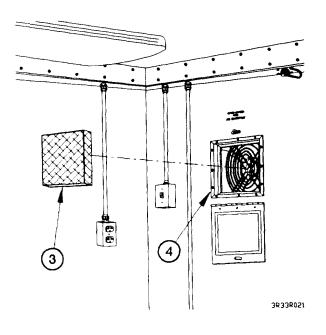
a. Removal.

NOTE

Right hand door air filter and fan air filter are removed the same way. Fan air filter shown.

- (1) Unlatch stud base fastener (1) on vent cover (2).
- (2) Open vent cover (2).





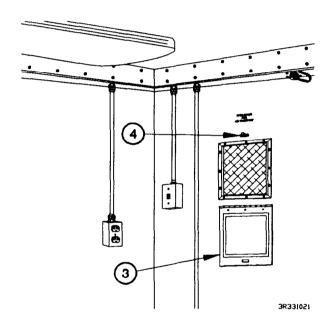
(3) Remove air filter (3) from filter frame (4). Discard air filter.

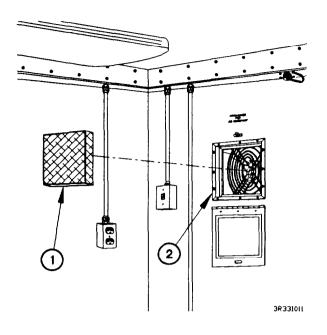
b. Installation.

NOTE

Right hand door air filter and fan air filter are installed the same way. Fan air filter shown.

(1) Install air filter (1) in filter frame (2).





- (2) Close vent cover (3).
- (3) Latch stud base fastener (4) on vent cover (3).

c. Follow-On Maintenance.

Close LH and RH doors (TM 9-2320-365-10).

16-34. M1079 LADDER, MOUNTING BRACKET, AND STOWAGE BRACKET REPLACEMENT/REPAIR

This task covers:

- a. Ladder Mounting Bracket Removal
- b. Ladder Mounting Bracket Installation
- c . Ladder Stowage Bracket Removal
- Ladder Stowage Bracket Installation
- e. Ladder Disassembly
- f. Ladder Assembly
- g. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

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

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Tool Kit, Blind Rivet (Item 43, Appendix C) Drill, Portable Electric (Item 7, Appendix C) Drill Set, Twist (Item 6, Appendix C)

Goggles, Industrial (Item 15, Appendix C)

Materials/Parts

Sealing Compound (Item 59, Appendix D) Lockwasher (4) (Item 83, Appendix G) Lockwasher (3) (Item 941, Appendix G) Rivet, Blind (Item 219, Appendix G) Rivet, Blind (Item 225, Appendix G) Rivet, Blind (2) (Item 235, Appendix G)

a. Ladder Mounting Bracket Removal.

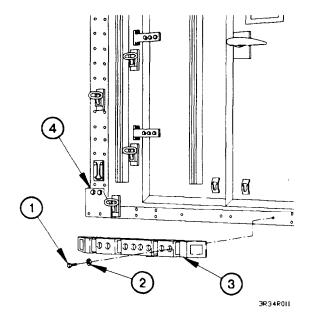
Remove four screws (1), lockwashers (2), and ladder mounting bracket (3) from van body (4). Discard lockwashers.

b. Ladder Bracket Installation.

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.

- (1) Apply sealing compound to threads of four screws (1).
- (2) Install ladder mounting bracket (4) on van body (3) with four lockwashers (2) and screws (1).

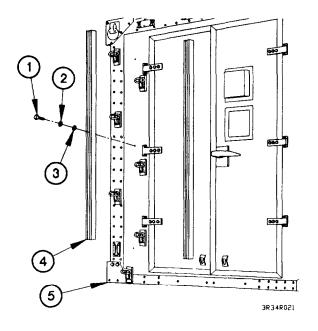


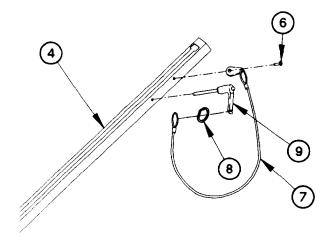
c. Ladder Stowage Bracket Removal.

NOTE

Left and right ladder stowage brackets are removed the same way. Left ladder stowage bracket shown.

(1) Remove three screws (1), lockwashers (2), washers (3), and ladder stowage bracket (4) from van body (5). Discard lockwashers.





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WARNING

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

NOTE

Perform steps (2) through (5) on left ladder stowage bracket.

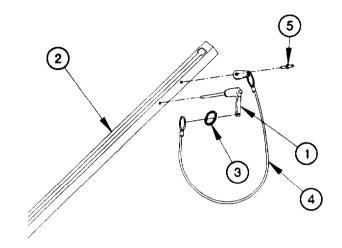
- (2) Remove rivet (6) and lanyard (7) from ladder stowage bracket (4).
- (3) Remove split ring (8) from lanyard (7).
- (4) Remove split ring (8) from quick release pin (9).
- (5) Remove quick release pin (9) from ladder stowage bracket (4).

16-34. M1079 LADDER, MOUNTING BRACKET, AND STOWAGE BRACKET REPLACEMENT/REPAIR (CONT)

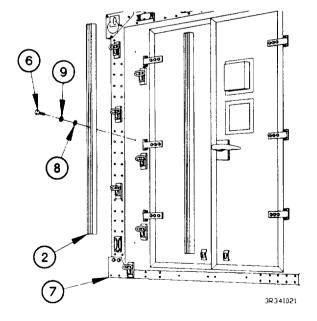
d. Ladder Stowage Bracket Installation.

NOTE

- Left and right ladder stowage brackets are installed the same way. Left ladder stowage bracket shown.
- Perform steps (1) through (4) on left ladder stowage bracket.
- (1) Install quick release pin (1) in ladder stowage bracket (2).
- (2) Install split ring (3) on quick release pin (1).
- (3) Install split ring (3) on lanyard (4).
- (4) Install lanyard (4) on ladder stowage bracket (2) with rivet (5).



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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.

- (5) Apply sealing compound to threads of three screws (6).
- (6) Install ladder stowage bracket (2) on van body (7) with three washers (8). lockwashers (9), and screws (6).

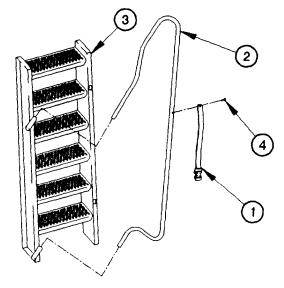
e. Ladder Disassembly.

- (1) Unbuckle strap (1).
- (2) Remove handrail (2) from ladder (3).

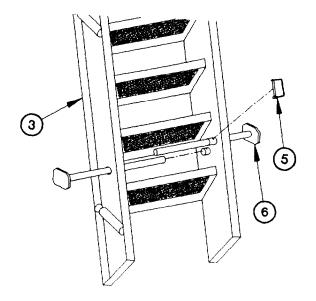


Wear appropriate eye protection when removing rivets. Failure to comply may result in injury to personnel.

(3) Remove rivet (4) and strap (1) from hand rail (2).



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- (4) Remove two lynch pins (5) from ladder (3).
- (5) Remove two adjustable legs (6) from ladder (3).

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16-34. M1079 LADDER, MOUNTING BRACKET, AND STOWAGE BRACKET REPLACEMENT/REPAIR (CONT)

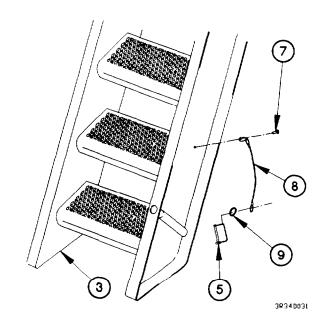
WARNING

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

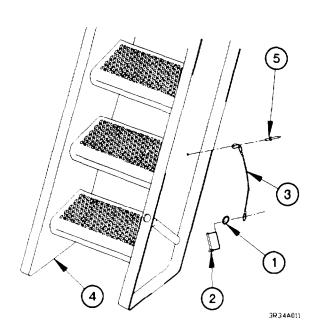
NOTE

Left and right lanyards are removed the same way. Right lanyard shown.

- (6) Remove rivet (7) and lanyard (8) from ladder (3).
- (7) Remove split ring (9) from lanyard (8).
- (8) Remove split ring (9) from lynch pin (5).
- (9) Perform steps (6) through (8) on left side of ladder (3).



f. Ladder Assembly.

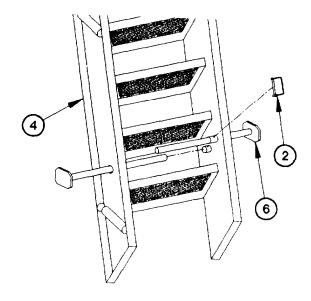


NOTE

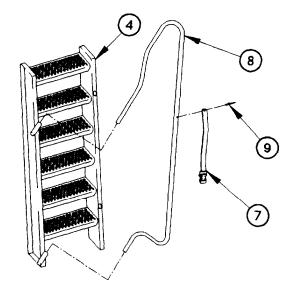
Left and right lanyards are installed the same way. Right lanyard shown.

- (1) Install split ring (1) on lynch pin (2).
- (2) Install split ring (1) on lanyard (3).
- (3) Install lanyard (3) on ladder (4) with rivet (5).
- (4) Perform steps (1) through (3) on left side of ladder (2).

(5) Install two adjustable legs (6) in ladder (4) with lynch pins (2).



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- (6) Install strap (7) on handrail (8) with rivet (9).
- (7) Install handrail (8) on ladder (4).
- (8) Fasten strap (7) on ladder (4).

g. Follow-On Maintenance.

Stow ladder on van body (TM 9-2320-365-10).

16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR

This task covers:

- a. Removal
- b. Disassembly
- c. Assembly

- d. Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Ladder installed (TM 9-2320-365-10). Placards and data plates removed (para 2-11).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Tool Kit, Blind Rivet (Item 43, Appendix C)
Sling, Endless (Item 32, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Drill, Portable Electric (Item 7, Appendix C)
Drill Set Twist (Item 6, Appendix C)

Materials/Parts

Adhesive (Item 11, Appendix D)
Sealing Compound (Item 67, Appendix D)
M1079 RH Door Gasket (Item E-7, Appendix E)
Filter, Air (Item 20, Appendix G)
Rivet, Blind (3) (Item 217, Appendix G)

Materials/Parts (Cont)

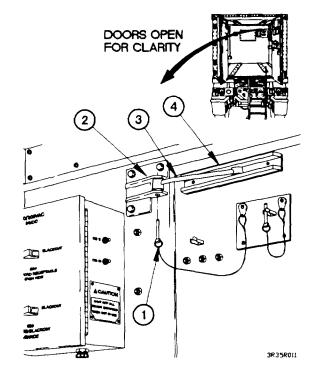
Lockwasher (3) (Item 87, Appendix G)
Rivet, Blind (19) (Item 228, Appendix G)
Rivet, Blind (19) (Item 227, Appendix G)
Nut, Blind Rivet (Item 115, Appendix G)
Nut, Self-Locking (6) (Item 121, Appendix G)
Pin, Cotter (3) (Item 201, Appendix G)
Nut, Self-Locking (2) (Item 117, Appendix G)
Nut, Self-Locking (9) (Item 118, Appendix G)
Nut, Self-Locking (9) (Item 118, Appendix G)
Lockwasher (4) (Item 82, Appendix G)
Rivet, Blind (6) (Item 215, Appendix G)
Rivet, Blind (4) (Item 216, Appendix G)
Seal (2) (Item 245, Appendix G)
Seal (2) (Item 246, Appendix G)
Nut, Blind Rivet (16) (Item 113, Appendix G)
Washer, Spring (2) (Item 275, Appendix G)

Personnel Required

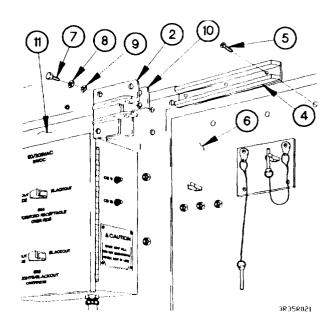
(2)

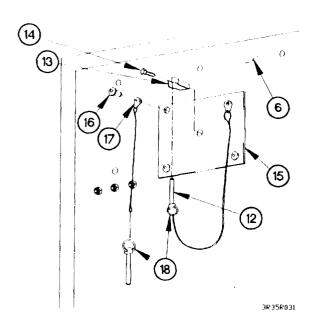
a. Removal.

- (1) Remove quick release pin (1) from bracket (2).
- (2) Remove stay arm (3) from channel (4).



- (3) Remove three screws (5) and channel (4) from RH door (6).
- (4) Remove three screws (7), lockwashers (8), washers(9), bracket (2), and spacer (10) from van body wall(11). Discard lockwashers.





- (5) Remove quick release pin (12) from clip (13).
- (6) Remove two screws (14) and clips (13) from RH door (6) and plate (15).

WARNING

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

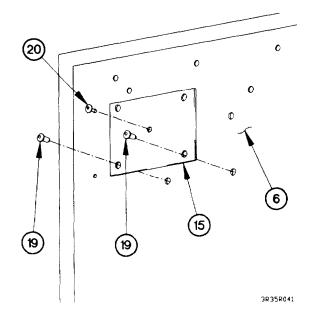
- (7) Remove two rivets (16) and lanyards (17) from plate (15).
- (8) Remove two rings (18) from lanyards (17).

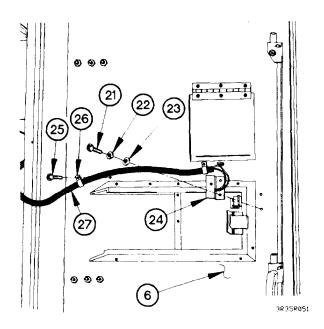
16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

WARNING

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

- (9) Remove two rivets (19) from plate (15).
- (10) Remove rivet nut (20) and plate (15) from RH door (6).
- (11) Remove sealing compound from plate (15) and RH door (6).





- (12) Remove two screws (21), lockwashers (22), washers (23), and bracket (24) from RH door (6). Discard lockwashers.
- (13) Remove two screws (25), clamps (26), and conduit (27) from RH door (6).

(14) Remove sealing compound from heads of six screws (28).

WARNING

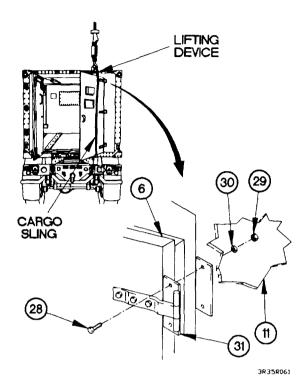
RH door assembly weighs approximately 85 lbs (39 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

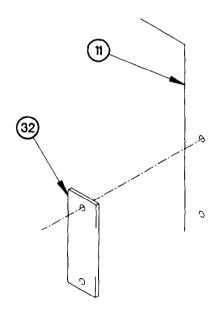
(15) Open RH door (6) (TM 9-2320-365-10).

NOTE

Steps (16) and (17) require the aid of an assistant.

- (16) Remove six self-locking nuts (29), washers (30), and screws (28) from hinges (31) and van body wall (11). Discard self-locking nuts.
- (17) Remove RH door (6) from van body wall (11).



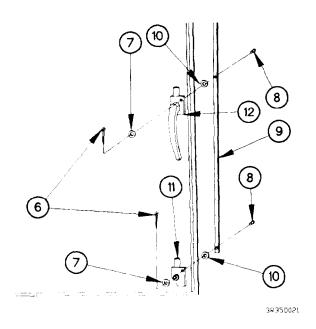


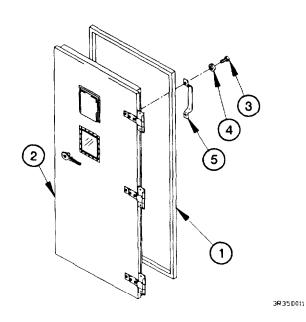
- (18) Remove three spacers (32) from van body wall (11).
- (19) Remove sealing compound from van body wall (11) and three spacers (32).

16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

b. Disassembly.

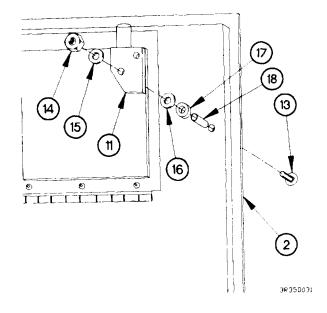
- (1) Remove gasket (1) from RH door (2). Discard gasket.
- (2) Remove two screws (3), washers (4), and handle (5) from RH door (2).



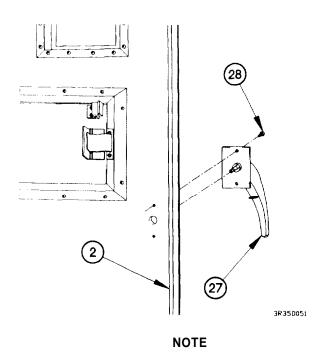


(3) Remove three cotter pins (6), washers (7), pins (8), latch rod (9) and three washers (10), from two latch arms (11) and latch arm (12). Discard cotter pins.

- (4) Remove sealing compound from heads of two bolts (13).
- (5) Remove two self-locking nuts (14), washers (15), latch arms (11), spring washers (16), spacers (17), sleeves (18), and bolts (13) from RH door (2). Discard self-locking nuts and spring washers.



- (6) Remove two spring pins (19) from handle (20) and latch arm (12).
- (7) Remove handle (20), latch arm (12), spacer (21), and washer (22) from shaft (23).
- (8) Remove sealing compound from around edge of plate (24).
- (9) Remove two screws (25) and plate (24) from RH door (2).
- (10) Remove shaft (23) from RH door (2).
- (11) Remove bushing (26) from plate (24).



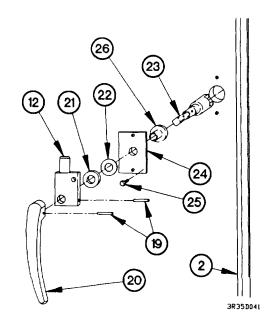
Perform step (14) on van body serial numbers 001 through 190.

(14) Remove two screws (29) and hasp (30) from RH door (2).

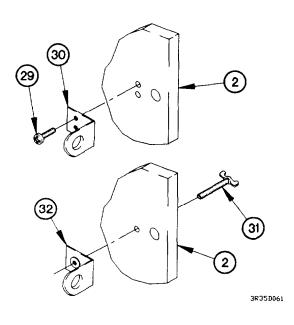
NOTE

Perform step (15) on van bodies serial number 191 and higher.

(15) Remove wing nut (31) and hasp (32) from RH door (2).

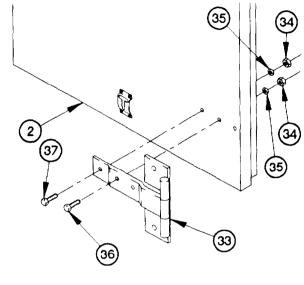


- (12) Remove sealing compound from around edge of handle assembly (27).
- (13) Remove two screws (28) and handle assembly (27) from RH door (2).

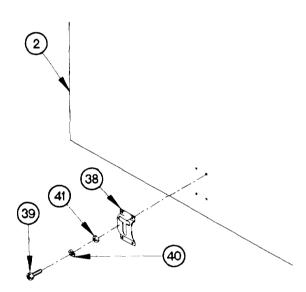


16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

- (16) Remove sealing compound around edges of three hinges (33).
- (17) Remove nine self-locking nuts (34), washers (35), six screws (36), three screws (37), and hinges (33) from RH door (2). Discard self-locking nuts.

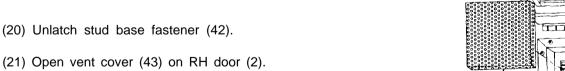


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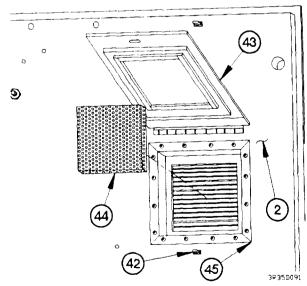


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- (18) Remove sealing compound around edge of latch (38).
- (19) Remove four screws (39), lockwashers (40), washers (41), and latch (38) from RH door (2). Discard lockwashers.



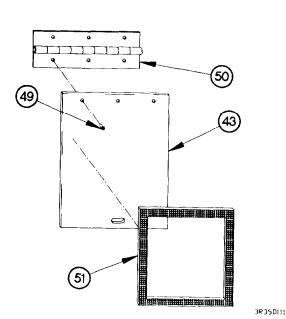
- (22) Remove air filter (44) from filter frame (45).
- (23) Close vent cover (43) on RH door (2).



WARNING

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

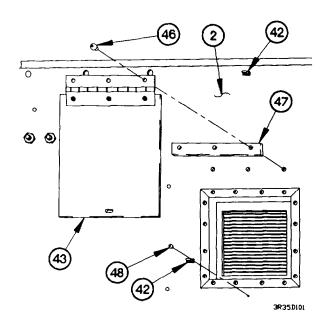
- (24) Remove three rivets (46), vent cover (43), and spacer (47) from RH door (2).
- (25) Remove four rivets (48) and two stud base fasteners (42) from RH door (2).



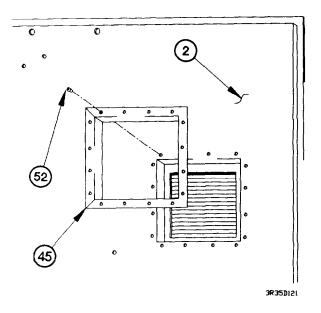
WARNING

Use care when removing filter frame from RH door. Sealing compound requires starting at one corner and slowly working filter frame loose. Failure to comply may result in damage to equipment.

- (28) Remove 16 rivets (52) and filter frame (45) from RH door (2).
- (29) Remove sealing compound from filter frame (45) and RH door (2).



- (26) Remove three rivets (49) and hinge (50) from vent cover (43).
- (27) Remove seal (51) from vent cover (43). Discard seal.



16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

- (30) Close blackout shield (53).
- (31) Remove sealing compound around edges of blackout shield frame (54).

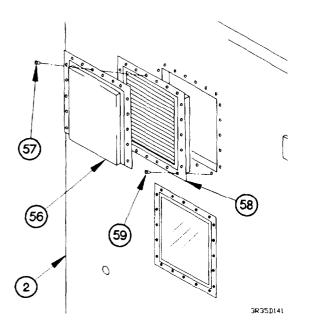
WARNING

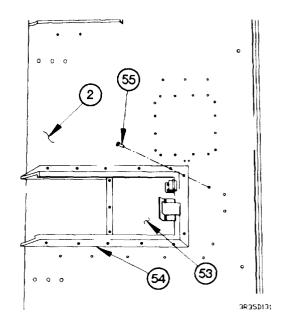
Wear appropriate eye protection when removing rivets. Failure to comply may result in injury to personnel.

CAUTION

Use care when removing blackout shield frame from RH door. Sealing compound requires starting at one corner and slowly working blackout shield frame loose. Failure to comply may result in damage to equipment.

- (32) Remove 12 rivets (55) and blackout shield frame (54) from RH door (2).
- (33) Remove sealing compound from blackout shield frame (54) and RH door (2).





(34) Remove sealing compound from edges of louver cover (56).

CAUTION

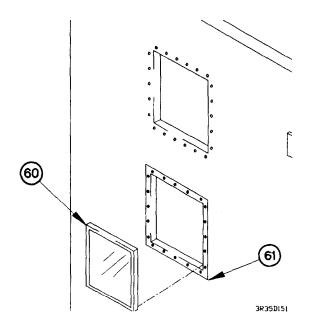
Use care when removing louver cover from RH door. Sealing compound requires starting at one corner and slowly working louver cover loose. Failure to comply may result in damage to equipment.

- (35) Remove 17 rivets (57) and louver cover (56) from louver frame (58).
- (36) Remove sealing compound from edges of louver frame (58).
- (37) Remove five rivets (59) and louver frame (58) from RH door (2).
- (38) Remove sealing compound from louver cover (56), louver frame (58), and RH door (2).

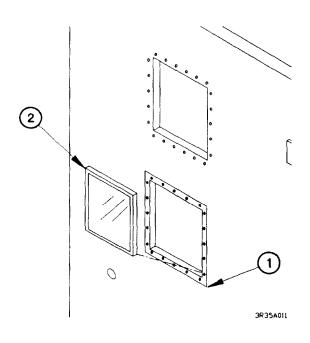
WARNING

Goggles and gloves must be worn when working with glass. Failure to comply may result in injury to personnel.

- (39) Remove sealing compound from edges of window glass (60).
- (40) Remove glass (60) from RH door window frame (61).
- (41) Remove sealing compound from RH door window frame (61).



c. Assembly.



WARNING

- Goggles and gloves must be worn when working with glass. Failure to comply may result in injury to personnel.
- 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.
- (1) Apply sealing compound on RH door window frame (1).
- (2) Install window glass (2) on RH door window frame (1).
- (3) Apply sealing compound on edges of RH door window frame (1) and window glass (2).

16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

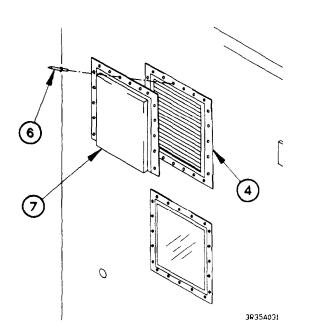
WARNING

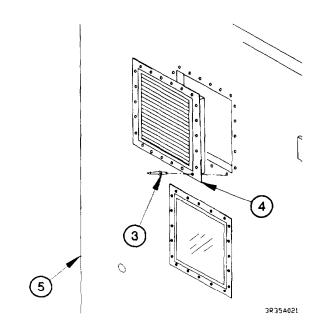
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

CAUTION

Coat all rivets with sealing compound prior to installation. Failure to comply may result in damage to equipment.

- (4) Apply sealing compound on five rivets (3) and louver frame (4).
- (5) Install louver frame (4) on RH door (5) with five rivets (3).





- (6) Apply sealing compound on edges of louver frame (4).
- (7) Apply sealing compound on 17 rivets (6) and louver cover (7).
- (8) Install louver cover (7) on louver frame (4) with 17 rivets (6).
- (9) Apply sealing compound on edges of louver cover (7).

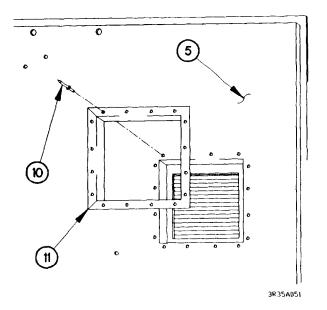
WARNING

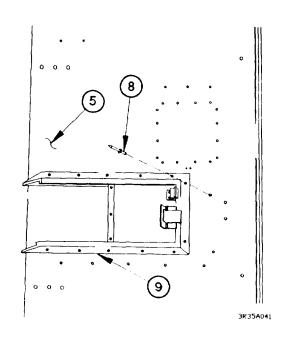
Adhesives, solvents. and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

CAUTION

Coat all rivets with sealing compound prior to installation. Failure to comply may result in damage to equipment.

- (10) Apply sealing compound to 12 rivets (8).
- (11) Install blackout shield frame (9) on RH door (5) with 12 rivets (8).
- (12) Apply sealing compound to edges of blackout shield frame (9).

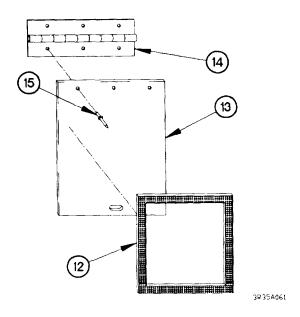




- (13) Apply sealing compound on 16 rivets (10) and filter frame (11).
- (14) Install filter frame (11) on RH door (5) with 16 rivets (10).

16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

- (15) Install seal (12) on vent cover (13).
- (16) Install hinge (14) on vent cover (13) with three rivets (15).



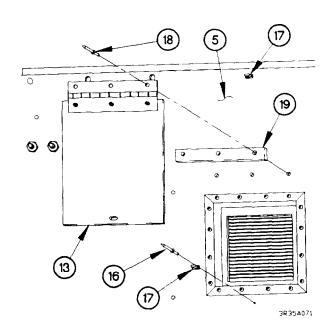
WARNING

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.

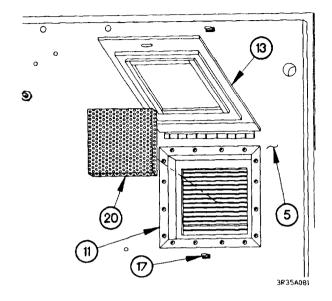
CAUTION

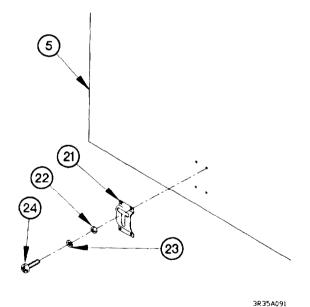
Coat all rivets with sealing compound prior to installation. Failure to comply may result in damage to equipment.

- (17) Apply sealing compound to four rivets (16).
- (18) Install two stud base fasteners (17) on RH door (5) with four rivets (16).
- (19) Apply sealing compound to three rivets (18).
- (20) Install spacer (19) and vent cover (13) on RH door (5) with three rivets (18).



- (21) Open vent cover (13) on RH door (5).
- (22) Install air filter (20) in filter frame (11).
- (23) Close vent cover (13) on RH door (5).
- (24) Latch stud base fastener (17) on vent cover (13).





(25) Install latch (21) on RH door (5) with four washers (22), lockwashers (23), and screws (24).

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.

(26) Apply sealing compound around edge of latch (21) and screws (24).

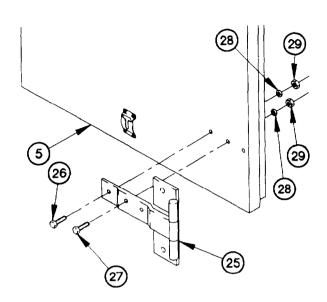
16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

(27) Install three hinges (25) on RH door (5) with three screws (26), six screws (27), nine washers (28), and self-locking nuts (29).

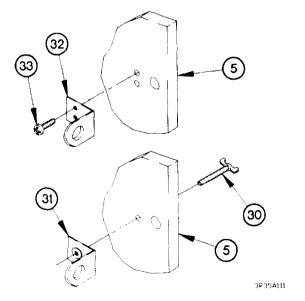
WARNING

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.

(28) Apply sealing compound around edges of three hinges (25).



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NOTE

Perform step (29) on van bodies serial number 191 and higher.

(29) Install wing nut (30) and hasp (31) on RH door (5).

NOTE

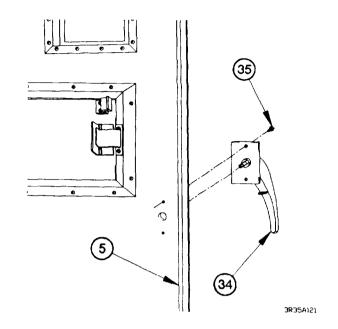
Perform step (30) on van body serial numbers 001 through 190.

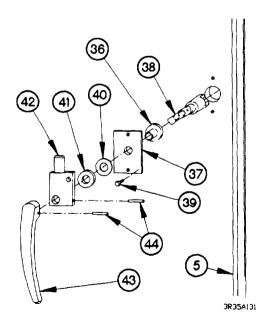
- (30) Install hasp (32) on RH door (5) with two screws (33).
- (31) Apply sealing compound around edges of hasp (32).

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.

- (32) Apply sealing compound to surface of handle assembly (34).
- (33) Install handle assembly (34) on RH door (5) with two screws (35).
- (34) Apply sealing compound around edge of handle assembly (34).





- (35) Install bushing (36) on plate (37).
- (36) Install shaft (38) on RH door (5).
- (37) Install plate (37) on RH door (5) with two screws (39).
- (38) Install washer (40), spacer (41), latch arm (42), and handle (43) on shaft (38).
- (39) Install two spring pins (44) in latch arm (42) and handle (43).

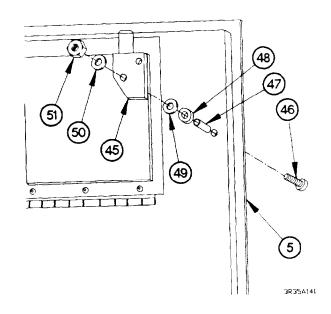
16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

(40) Install two latch arms (45) on RH door (5) with two bolts (46), sleeve (47), two spacers (48), spring washers (49), washers (50), and self-locking nuts (51).

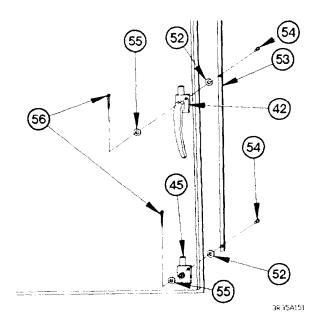
WARNING

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.

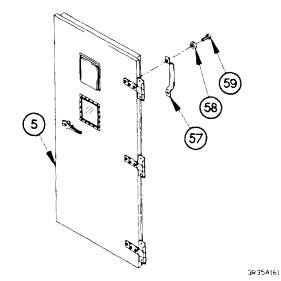
(41) Apply sealing compound around heads of two bolts



(46).



(42) Install three washers (52) and latch rod (53) on two latch arms (45) and latch arm (42) with three pins (54), washers (55). and cotter pins (56).



(43) Install handle (57) on RH door (5) with two washers (58) and screws (59).

WARNING

- Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes, and do not breathe vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I Dry Cleaning Solvent is 100°F (38°C) and for Type II is 130°F (50°C). Failure to comply may result in injury or death to personnel.
- If personnel become dizzy while using Dry Cleaning Solvent, immediately get fresh air and medical help. If Dry Cleaning Solvent contacts skin or clothes, flush with cold water. If Dry Cleaning Solvent contacts eyes, immediately flush eyes with water and get immediate medical attention. Failure to comply may result in injury to personnel.
- (44) Clean inside edges of RH door (5) with dry cleaning solvent.

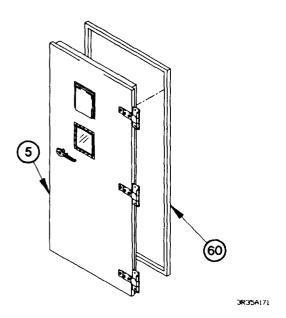
WARNING

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.

NOTE

Apply adhesive no sooner than 30 minutes, nor later than eight hours, after cleaning.

- (45) Apply adhesive to inside edge of RH door (5).
- (46) Install gasket (60) on RH door (5).



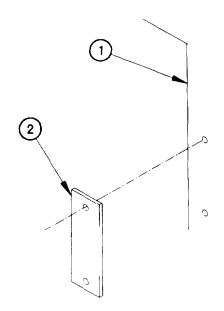
16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

d. Installation.

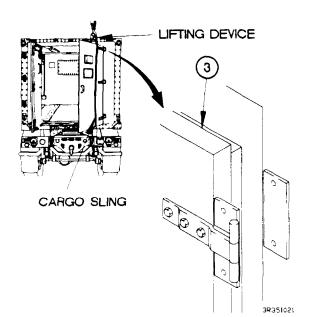
WARNING

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.

- (1) Apply sealing compound to van body wall (1) and three spacers (2).
- (2) Position three spacers (2) on van body wall (1).



3R351011



WARNING

RH door assembly weighs approximately 85 lbs (39 kgs). Attach a suitable lifting device prior to installation. Failure to comply may result in injury to personnel or damage to equipment.

NOTE

Step (3) requires the aid of an assistant.

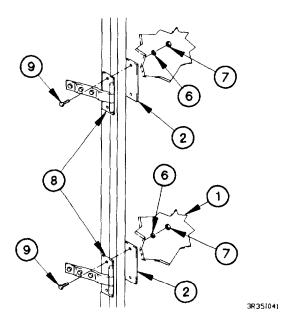
(3) Position RH door (3) at mounting location.

(4) Position spacer (2) between upper hinge (4) and van body wall (1).

NOTE

Step (5) and (6) require the aid of an assistant.

- (5) Position two screws (5) in upper hinge (4) and van body wall (1).
- (6) Position washers (6) and self-locking nuts (7) on two screws (5).



NOTE

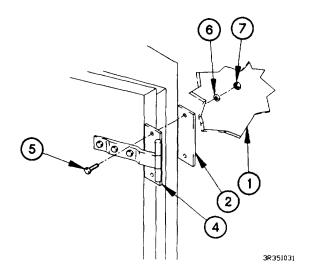
Latch should require some force to close completely.

(10) Close RH door (3) (TM 9-2320-365-10).

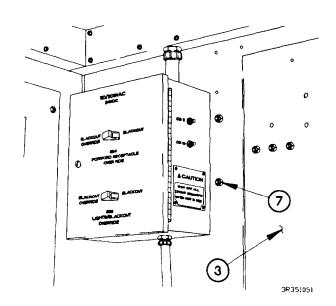
NOTE

Step (11) requires the aid of an assistant.

(11) Tighten six self-locking nuts (7).



- (7) Position two spacers (2) between two hinges (8) and van body wall (1).
- (8) Position two screws (9) in two hinges (8) and van body wall (1).
- (9) Position washers (6) and self-locking nuts (7) on four screws (9).

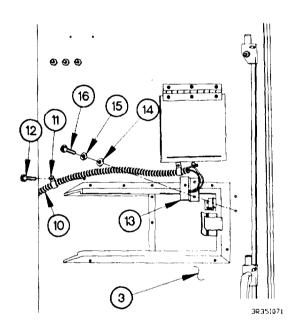


16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

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.

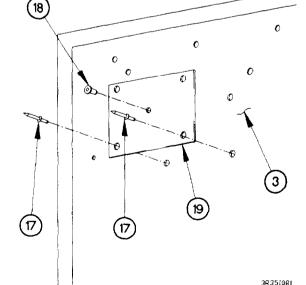
(12) Apply sealing compound around heads of six screws (5 and 9) and completely around edges of three hinges (8).



5 9 8

(8)

- 3R35I061
- (13) Install conduit (10) on RH door (3) with two clamps (11) and screws (12).
- (14) Position bracket (13) on RH door (3) with two washers (14), lockwashers (15), and screws (16).



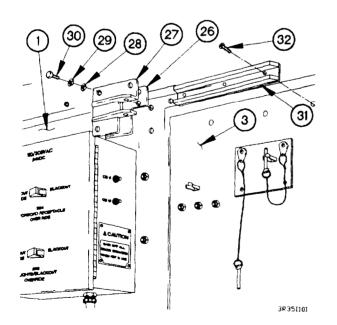
- (15) Apply sealing compound to two rivets (17) and rivet nut (18).
- (16) Install rivet nut (18) in plate (19).
- (17) Apply sealing compound to back of plate (19).
- (18) Install plate (19) on RH door (3) with two rivets (17).

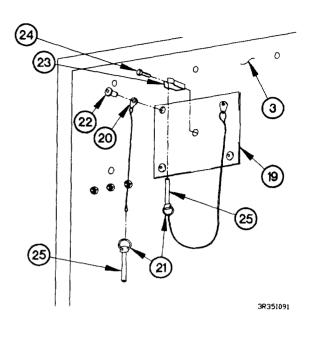
(19) Install two lanyards (20) on rings (21).

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.

- (20) Apply sealing compound to two rivets (22).
- (21) Install two lanyards (20) on plate (19) with two rivets (22).
- (22) Install two clips (23) on plate (19) and RH door (3) with two screws (24).
- (23) Install quick release pin (25) in clip (23).

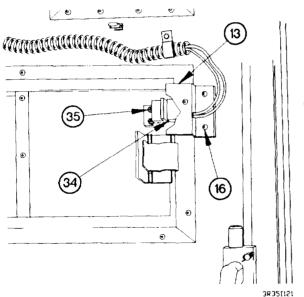


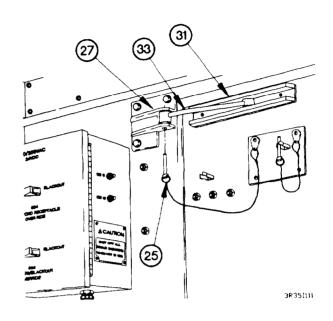


- (24) Install spacer (26) and bracket (27) on van body wall (1) with three washers (28), lockwashers (29), and screws (30).
- (25) Install channel (31) on RH door (3) with three screws (32)

16-35. M1079 RH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

- (26) Position stay arm (33) in channel (31).
- (27) Install quick release pin (25) in bracket (27) and stay arm (33).





- (28) Slide bracket (13) to the left until blackout switch (34) contacts bracket (35).
- (29) Tighten two screws (16).
- e. Follow-On Maintenance.

Check for proper operation of blackout lights system (TM 9-2320-365-10).

End of Task.

16-36. M1079 LH DOOR ASSEMBLY REPLACEMENT/REPAIR

This task covers:

- a. Removal
- b. Disassembly
- c. Assembly

- d. Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). RH door opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Sling, Endless (Item 32, Appendix C) Drill, Portable, Electric (Item 7, Appendix C) Drill Set, Twist (Item 6, Appendix C) Goggles, Industrial (Item 15, Appendix C) Tool Kit, Blind Rivet (Item 43, Appendix C)

Materials/Parts

Adhesive (Item 11, Appendix D)
Sealing Compound (Item 67, Appendix D)
M1079 LH Door Gasket (Item E-7, Appendix E)

Materials/Parts (Cont)

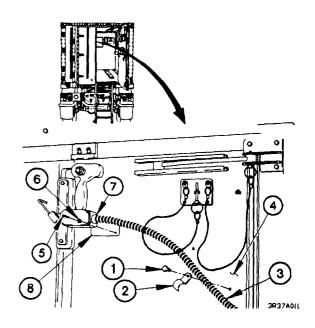
Lockwasher (4) (Item 81, Appendix G)
Nut, Blind Rivet (4) (Item 112, Appendix G)
Lockwasher (9) (Item 87, Appendix G)
Rivet, Blind (2) (Item 228, Appendix G)
Rivet, Blind (2) (Item 227, Appendix G)
Nut, Blind Rivet (Item 115, Appendix G)
Nut, Self-Locking (6) (Item 121, Appendix G)
Lockwasher (13) (Item 82, Appendix G)
Lockwasher (3) (Item 94, Appendix G)
Nut, Self-Locking (2) (Item 117, Appendix G)
Nut, Self-Locking (9) (Item 118, Appendix G)

Personnel Required

(2)

a. Removal.

- (1) Remove two screws (1) clamps (2) and conduit (3) from LH door (4).
- (2) Remove four screws (5), lockwashers (6), and door ajar switch box (7) from plate (8). Discard lockwashers.

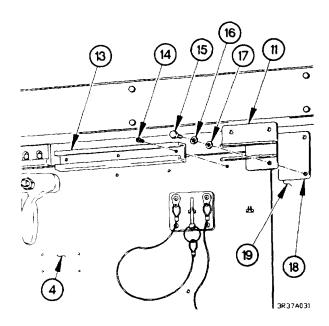


16-36. M1079 LH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

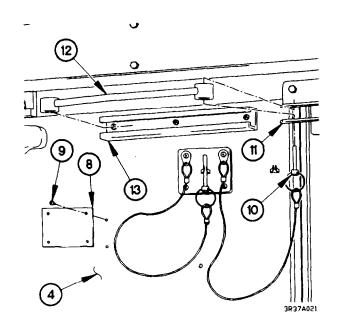
WARNING

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

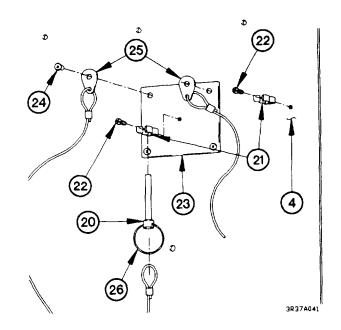
- (3) Remove four blind rivet nuts (9) and plate (8) from LH door (4).
- (4) Remove quick release pin (10) from bracket (11) and stay arm (12).
- (5) Remove stay arm (12) from channel (13).



- (8) Remove quick release pin (20) from clip (21).
- (9) Remove two screws (22) and clips (21) from plate (23) and LH door (4).
- (10) Remove two rivets (24) and lanyards (25) from plate (23).
- (11) Remove two lanyards (25) from rings (26).



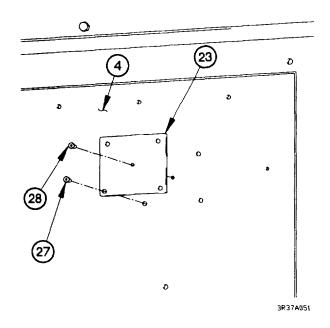
- (6) Remove three screws (14) and channel (13) from LH door (4).
- (7) Remove three screws (15), lockwashers (16), washers (17), bracket (11), and spacer (18) from van body wall (19). Discard lockwashers.

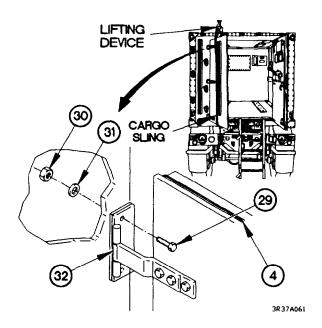


WARNING

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

- (12) Remove two rivets (27) and plate (23) from LH door (4).
- (13) Remove blind rivet nut (28) from plate (23).





(14) Remove sealing compound from heads of six screws (29).

WARNING

LH door assembly weighs approximately 85 lbs (39 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

(15) Open LH door (4) (TM 9-2320-365-10).

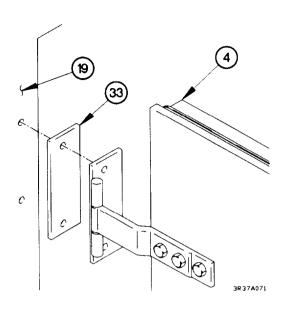
NOTE

Step (16) requires aid of an assistant.

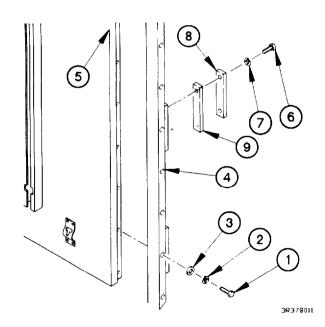
(16) Remove six self-locking nuts (30), washers (31), and screws (29) from three hinges (32). Discard self-locking nuts.

16-36. M1079 LH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

- (17) Remove sealing compound from around three spacers (33).
- (18) Remove LH door (4) and spacer(s) (33) from van body wall (19).



b. Disassembly.



(1) Remove nine screws (1), lockwashers (2), washers (3), and door channel (4) from LH door (5). Discard lockwashers.

CAUTION

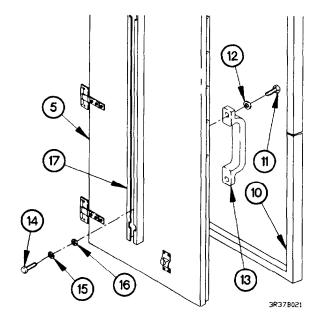
Mark location of striker plate and shims prior to removal. Failure to comply may result in damage to equipment.

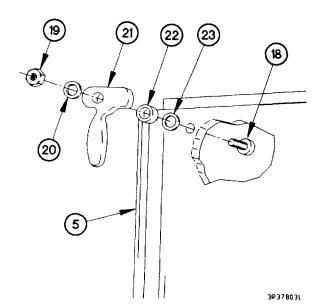
NOTE

Number of shims installed with each striker plate may vary.

(2) Remove six screws (6), lockwashers (7), three striker plates (8) and shim(s) (9) from door channel (4). Discard lockwashers.

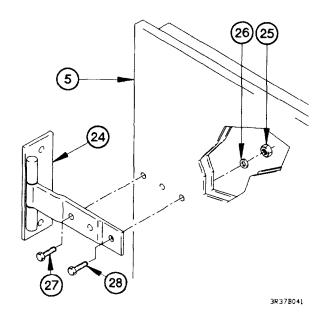
- (3) Remove gasket (10) from LH door (5). Discard gasket.
- (4) Remove two screws (11), washers (12), and handle (13) from LH door (5).
- (5) Remove three screws (14), lockwashers (15), washers (16), and ladder channel (17) from LH door (5). Discard lockwashers.





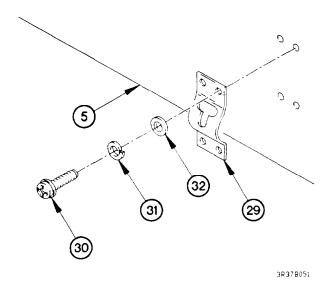
- (6) Remove sealing compound from heads of two bolts (18).
- (7) Remove two self-locking nuts (19), washers (20), latches (21), spacers (22), washers (23), and bolts (18) from LH door (5). Discard self-locking nuts.

- (8) Remove sealing compound from around edges of three hinges (24).
- (9) Remove nine self-locking nuts (25), washers (26), six screws (27), three screws (28), and three hinges (24) from LH door (5). Discard self-locking nuts.

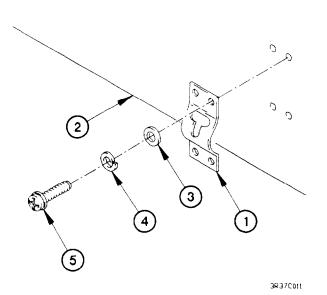


16-36. M1079 LH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

- (10) Remove sealing compound from around edge of latch (29).
- (11) Remove four screws (30), lockwashers (31), washers (32), and latch (29) from LH door (5). Discard lockwashers.



c. Assembly.



WARNING

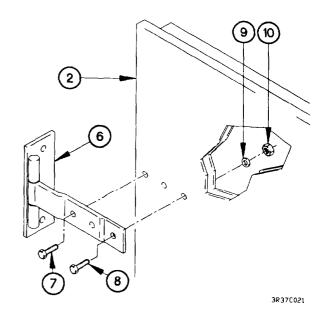
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

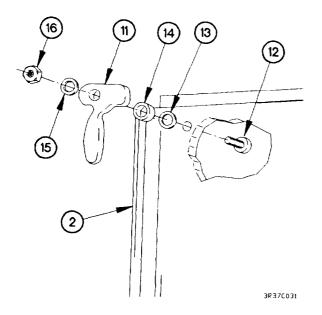
- (1) Apply sealing compound to latch (1).
- (2) Install latch (1) on LH door (2) with four washers (3), lockwashers (4), and screws (5).
- (3) Apply sealing compound around edge of latch (1).

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.

- (4) Apply sealing compound on three hinges (6).
- (5) Install three hinges (6) on LH door (2) with six screws (7), three screws (8), washers (9), and self-locking nuts (10).
- (6) Apply sealing compound around edges of three hinges (6).





NOTE

Latches are supposed to spin freely. Do not overtighten self-locking nuts.

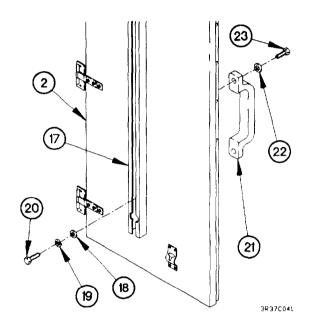
- (7) Install two latches (11) on LH door (2) with bolts (12), washers (13), spacers (14), washers (15), and self-locking nuts (16).
- (8) Apply sealing compound around heads of two bolts (12).

16-36. M1079 LH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

- (9) Install ladder channel (17) on LH door (2) with three washers (18), lockwashers (19), and screws (20).
- (10) Install handle (21) on LH door (2) with two washers (22) and screws (23).

WARNING

- Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes, and do not breathe vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I Dry Cleaning Solvent is 100°F (38°C) and for Type II is 130°F (50°C). Failure to comply may result in injury or death to personnel.
- If personnel become dizzy while using Dry Cleaning Solvent, immediately get fresh air and medical help. If Dry Cleaning Solvent contacts skin or clothes, flush with cold water. If Dry Cleaning Solvent contacts eyes, immediately flush eyes with water and get immediate medical attention. Failure to comply may result in injury to personnel.
- (11) Clean inside edge of LH door (2) with dry cleaning solvent.



WARNING

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NOTE

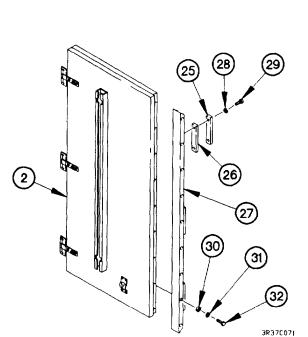
Apply adhesive no sooner than 30 minutes, nor later than eight hours after cleaning.

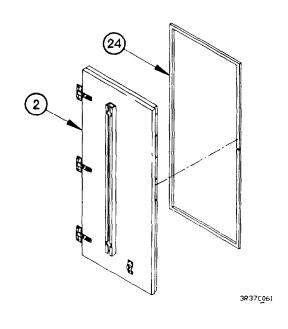
(12) Apply adhesive to inside edge of LH door (2).

NOTE

Gasket will be bonded all around LH door.

(13) Install gasket (24) on LH door (2).





- (14) Install three strikers (25) and shim(s) (26) on door channel (27) with six lockwashers (28) and screws (29).
- (15) Install door channel (27) on LH door (2) with nine washers (30), lockwashers (31), and screws (32).

16-36. M1079 LH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

d. Installation.

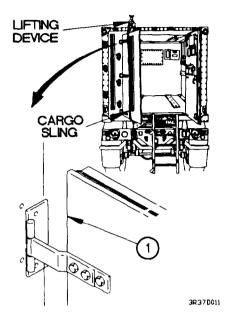
WARNING

LH door assembly weighs approximately 85 lbs (39 kgs). Attach a suitable lifting device prior to installation. Failure to comply may result in injury to personnel or damage to equipment.

NOTE

Step (1) requires aid of an assistant.

(1) Position LH door (1) at mounting location.



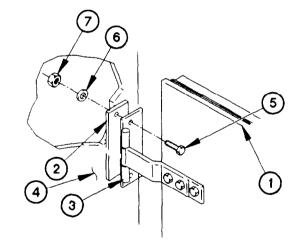
WARNING

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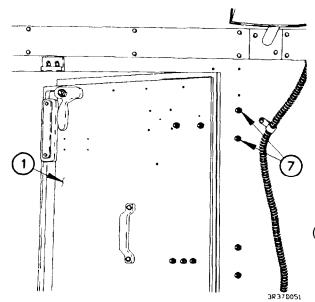
- (2) Apply sealing compound to spacer(s) (2) and hinges (3).
- (3) Position spacer(s) (2) between LH door (1), upper hinge (3), and van body wall (4).

3R37D021 (4) Install two screws (5) in upper hinge (3).

(5) Position two washers (6) and self-locking nuts (7) on screws (5).



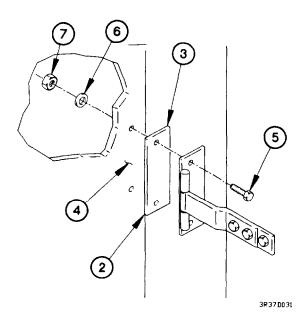
- (6) Position two spacers (2) between two hinges (3) and van body wall (4).
- (7) Position four screws (5) in two hinges (3) and spacers (2).
- (8) Position four washers (6) and self-locking nuts (7) on screws (5).



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.

(11) Apply sealing compound around heads of six screws (5) and around edges of three spacers (2).



NOTE

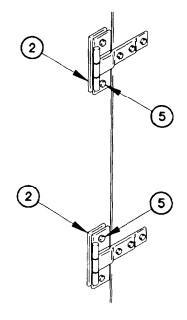
Latches should require some force to close completely.

(9) Close LH door (1) (TM 9-2320-365-10).

NOTE

Step (10) requires the aid of an assistant.

(10) Tighten six self-locking nuts (7).



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16-36. M1079 LH DOOR ASSEMBLY REPLACEMENT/REPAIR (CONT)

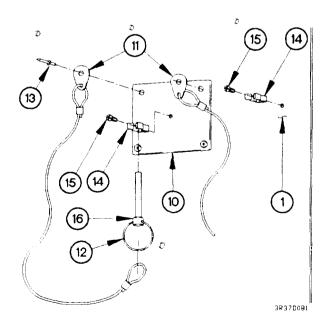
WARNING

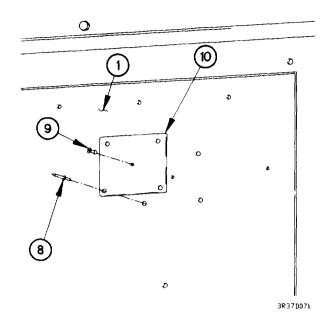
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

CAUTION

Coat all rivets and blind rivet nuts with sealing compound to prior to installation. Failure to comply may result in damage to equipment.

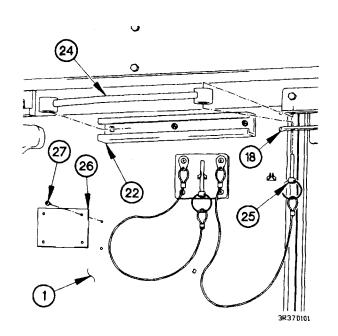
- (12) Apply sealing compound to two rivets (8) and blind rivet nut (9).
- (13) Install blind rivet nut (9) on plate (10).
- (14) Install plate (10) on LH door (1) with two rivets (8).

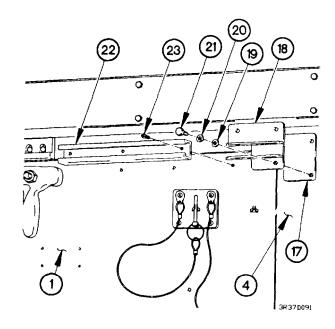




- (15) Install two lanyards (11) on rings (12).
- (16) Apply sealing compound to two rivets (13).
- (17) Install two lanyards (11) on plate (10) with two rivets (13).
- (18) Install two clips (14) on LH door (1) and plate (10) with two screws (15).
- (19) Install quick release pin (16) in clip (14).

- (20) Install spacer (17) and bracket (18) on van body wall(4) with three washers (19), lockwashers (20), and screws (21).
- (21) Install channel (22) on LH door (1) with three screws (23).





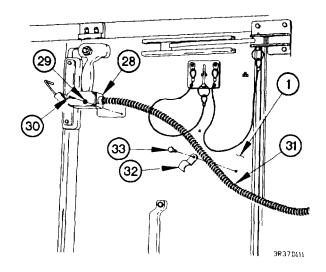
- (22) Open LH door (1).
- (23) Install stay arm (24) in channel (22).
- (24) Install stay arm (24) in bracket (18) with quick release pin (25).
- (25) Install plate (26) on LH door (1) with four rivet nuts (27).

- (26) Install door ajar switch box (28) on LH door (1) with four lockwashers (29) and screws (30).
- (27) Install conduit (31) on LH door (1) with two clamps (32) and screws (33).

e. Follow-On Maintenance.

- (1) Adjust door ajar switch (para 16-55).
- (2) Stow ladder (TM 9-2320-365-10).

End of Task.



16-37. M1079 BLACKOUT SHIELD AND FRAME REPLACEMENT/REPAIR

This task covers:

- a. Removal
- b. Disassembly
- C. Assembly

- d. Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (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) Drill Set, Twist (Item 6, Appendix C) Goggles, Industrial (Item 15, Appendix C) Tool Kit, Blind Rivet (Item 43, Appendix C)

Materials/Parts

Lockwasher (2) (Item 77, Appendix G) Rivet, Blind (17) (van bodies serial number 191 and higher) (Item 218, Appendix G) Rivet, Blind (29) (van body serial numbers 001 through 190) (Item 218, Appendix G) Nut, Self-Locking (2) (Item 122, Appendix G) Drill, Portable, Electrical (Item 7, Appendix C) M1079 Blackout Shield Header Seal (Item E-6, Appendix E) M1079 Blackout Shield Jamb Seal (2) (Item E-6, Appendix E) Sealing Compound (Item 67, Appendix D)

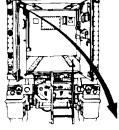
Seal, Weather (Item 259, Appendix G) Tape, Adhesive (Item 72, Appendix D) Adhesive (Item 5, Appendix D)

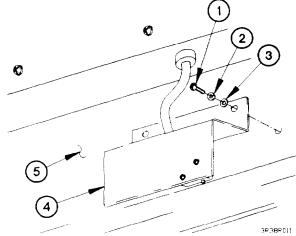
a. Removal.

NOTE

All blackout shields and frames are removed the same way. Left front blackout shield and frame on van body serial number 191 shown.

(1) Remove two screws (1), lockwashers (2), washers (3) and bracket (4) from van body wall (5). Discard lockwashers.





(2) Close blackout shield (6).

WARNING

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

NOTE

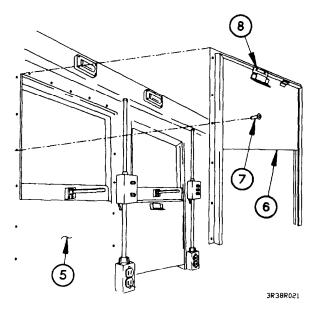
Perform step (3) on van bodies serial number 191 and higher.

(3) Remove 17 rivets (7) and blackout shield assembly (8) from van body wall (5).

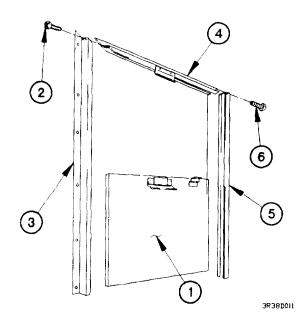
NOTE

Perform step (4) on van body serial numbers 001 through 190.

(4) Remove 29 rivets (7) and blackout shield assembly (8) from van body wall (5).



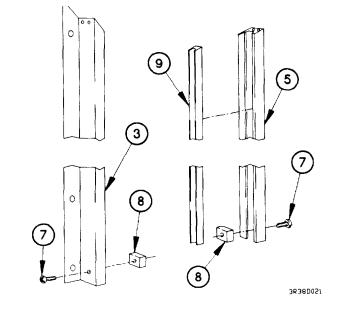
b. Disassembly.

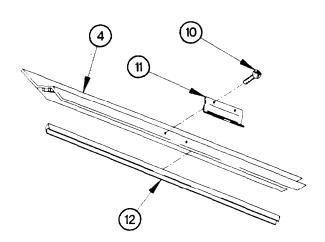


- (1) Open blackout shield (1).
- (2) Remove two screws (2) and left jamb frame (3) from header frame (4).
- (3) Remove blackout shield (1) from right jamb frame (5).
- (4) Remove two screws (6) and right jamb frame (5) from header frame (4).

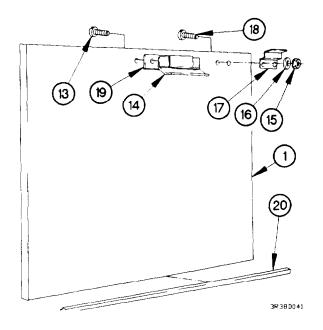
16-37. M1079 BLACKOUT SHIELD AND FRAME REPLACEMENT/REPAIR (CONT)

- (5) Remove two screws (7) and stops (8) from left and right jamb frames (3 and 5).
- (6) Remove two seals (9) from left and right jamb frames (3 and 5). Discard seals.
- (7) Remove sealing compound from left and right jamb frames (3 and 5).



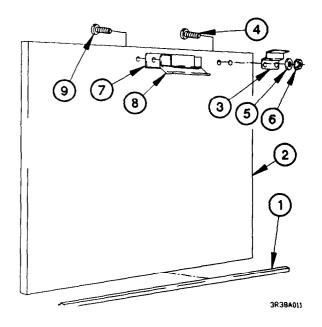


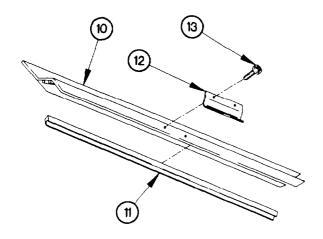
- (8) Remove two screws (10) and keeper (11) from header frame (4).
- (9) Remove seal (12) from header frame (4). Discard seal.
- (10) Remove sealing compound from header frame (4).
- 3R38D031
- (11) Remove screw (13) and latch (14) from blackout shield (1).
- (12) Remove two self-locking nuts (15), washers (16), bracket (17), and two screws (18) from blackout shield (1). Discard self-locking nuts.
- (13) Remove tape (19) from latch (14) and blackout shield (1).
- (14) Remove weather seal (20) from blackout shield (1). Discard weather seal.



c. Assembly.

- (1) Install weather seal (1) in blackout shield (2).
- (2) Install bracket (3) on blackout shield (2) with two screws (4), washers (5), and self-locking nuts (6).
- (3) Install tape (7) on latch (8).
- (4) Install latch (8) on blackout shield (2) with screw (9).





3R38A021

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.

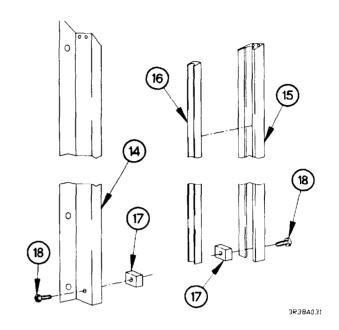
- (5) Apply adhesive on header frame (10).
- (6) Install seal (11) in header frame (10).
- (7) Install bracket (12) on header frame (10) with two screws (13).

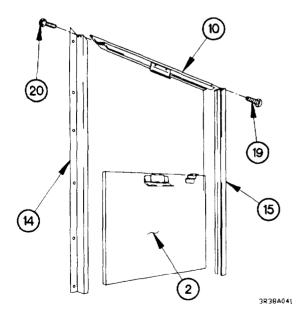
16-37. M1079 BLACKOUT SHIELD AND FRAME REPLACEMENT/REPAIR (CONT)

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) Apply adhesive on left and right jamb frames (14 and 15).
- (9) Install two seals (16) in left and right jamb frames (14 and 15).
- (10) Install two stops (17) in left and right jamb frames (14 and 15) with two screws (18).





- (11) Install right jamb frame (15) on header frame (10) with two screws (19).
- (12) Install blackout shield (2) in right jamb frame (15).
- (13) Install left jamb frame (14) on header frame (10) with two screws (20).
- (14) Close blackout shield (2).

d. Installation.

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.

CAUTION

Coat all rivets with sealing compound prior to installation. Failure to comply may result in damage to equipment.

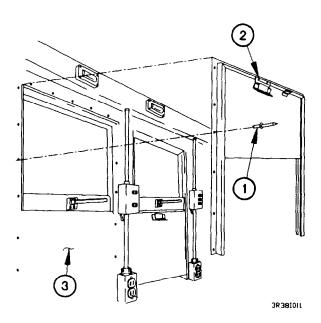
NOTE

- All blackout shields and frames are installed the same way. Left front blackout shield and frame on van body serial number 191 shown.
- Perform steps (1) and (2) on van bodies serial number 191 and higher.
- (1) Apply sealing compound to 17 rivets (1).
- (2) Install blackout shield assembly (2) on van body wall (3) with 17 rivets (1).

NOTE

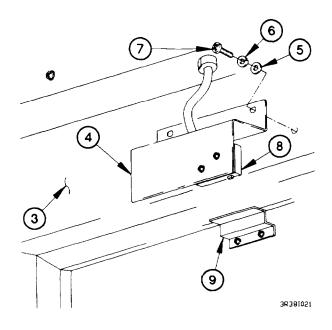
Perform steps (3) and (4) on van body serial numbers 001 through 190.

- (3) Apply sealing compound to 29 rivets (1).
- (4) Install blackout shield assembly (2) on van body wall (3) with 29 rivets (1).



16-37. M1079 BLACKOUT SHIELD AND FRAME REPLACEMENT/REPAIR (CONT)

- (5) Position bracket (4) on van body wall (3) with two washers (5), lockwashers (6), and screws (7).
- (6) Press down on bracket (4) until blackout switch (8) contacts bracket (9).
- (7) Tighten two screws (7).



e. Follow-On Maintenance.

- (1) Check for proper operation of blackout lights (TM 9-2320-365-10).
- (2) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-38. M1079 WINDOW LATCH AND PROP REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Window cover stowed (van bodies serial number 191 and higher) (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)

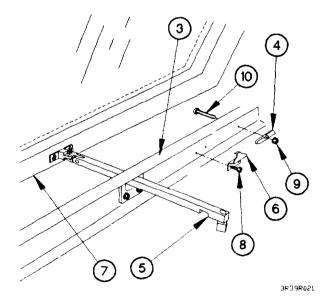
Materials/Parts

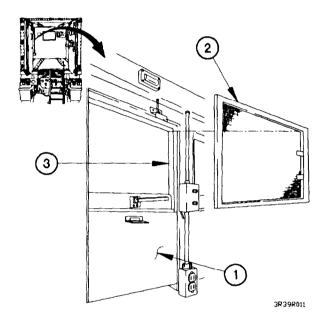
Adhesive (Item 9, Appendix D)
Nut, Self-Locking (Item 154, Appendix G)

a. Removal.

NOTE

- Van body serial numbers 001 through 190 are equipped with five side windows, van bodies serial number 191 and higher are equipped with four side windows.
- All window latches and props are removed the same way. Left rear window latch and prop on van body serial number 191 shown.
- (1) Lower blackout shield (1).
- (2) Remove screen (2) from window main frame (3).



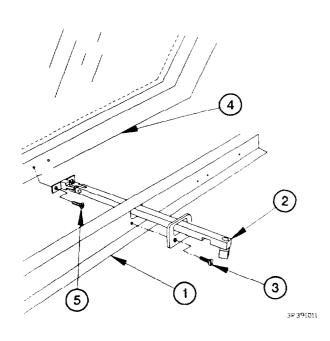


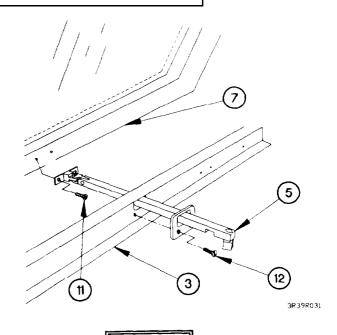
- (3) Open transport lock (4) on window main frame (3).
- (4) Remove prop (5) from latch (6).
- (5) Open window sash assembly (7).
- (6) Remove two screws (8) and latch (6) from window main frame (3).
- (7) Remove self-locking nut (9), screw (10), and transport lock (4) from window main frame (3). Discard self-locking nut.

16-38. M1079 WINDOW LATCH AND PROP REPLACEMENT (CONT)

- (8) Remove two screws (11) and prop (5) from window sash assembly (7).
- (9) Remove two screws (12) and prop (5) from window main frame (3).
- (10) Remove adhesive from window main frame (3).

b. Installation.





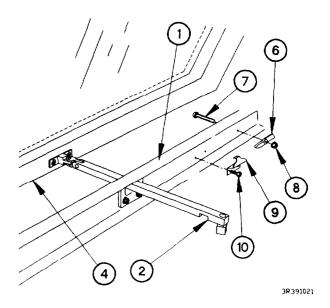
WARNING

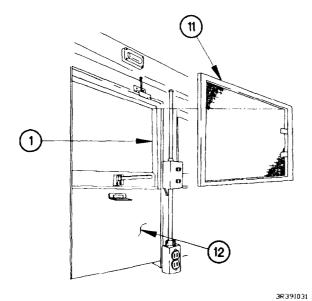
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

NOTE

- Van body serial numbers 001 through 190 are equipped with five side windows, van bodies serial number 191 and higher are equipped with four side windows.
- All window latches and props are installed the same way. Left rear window latch and prop on van body serial number 191 shown.
- (1) Apply a bead of adhesive around prop opening in window main frame (1).
- (2) Install prop (2) on window main frame (1) with two screws (3).
- (3) Install prop (2) on window sash assembly (4) with two screws (5).

- (4) Install transport lock (6) on window main frame (1) with screw (7) and self-locking nut (8).
- (5) Install latch (9) on window main frame (1) with two screws (10).
- (6) Close window sash assembly (4).
- (7) Position prop (2) in latch (9).
- (8) Close transport lock (6) on window main frame (1).





- (9) Install screen (11) in window main frame (1).
- (10) Raise blackout shield (12).

c. Follow-On Maintenance.

- (1) Lower window cover (van bodies serial number 191 and higher) if required (TM 9-2320-365-10).
- (2) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-39. M1079 WINDOW SASH ASSEMBLY REPLACEMENT/REPAIR

This task covers:

- a. Removal
- b. Disassembly
- c. Assembly

- d. Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Window cover stowed (van bodies serial number 191 and higher) (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)
Drill, Portable, Electric (Item 7, Appendix C)
Drill Set, Twist (Item 6, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Tool Kit, Blind Rivet (Item 43, Appendix C)

Materials/Parts

Rivet, Blind (4) (Item 225, Appendix G)
Adhesive (Item 9, Appendix D)
M1079 Window Sash Top/Bottom Glazing Seal (2)
(Item E-8, Appendix E)
M1079 Window Sash Side Glazing Seal (2) (Item E-8, Appendix E)

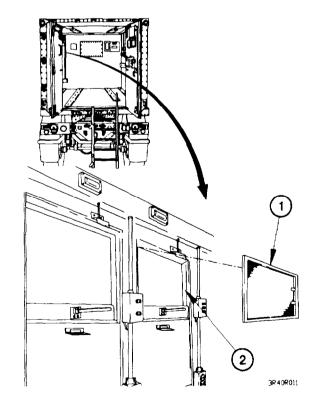
Personnel Required

(2)

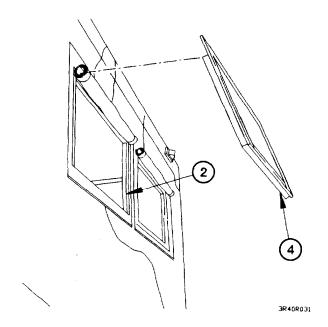
a. Removal.

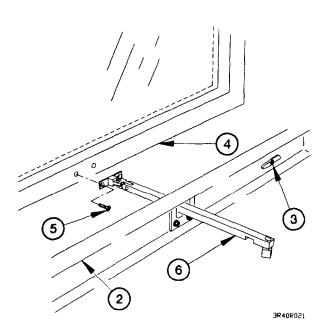
NOTE

- Van body serial numbers 001 through 190 are equipped with five window sash assemblies 30 in. (760 mm) tall. Van bodies serial numbers 191 and higher are equipped with four window sash assemblies 14 in. (355 mm) tall.
- All window sash assemblies are removed the same way. Left front window sash assembly on van body serial number 191 shown.
- (1) Remove screen (1) from window main frame (2).



- (2) Open transport lock (3) on window main frame (2).
- (3) Open window sash assembly (4).
- (4) Remove two screws (5) and prop (6) from window sash assembly (4).





(5) Remove window sash assembly (4) from window main frame (2).

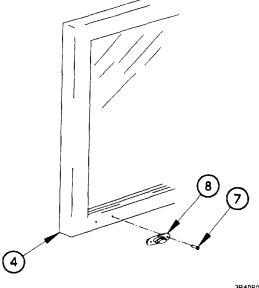
WARNING

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

NOTE

Perform step (6) on van bodies serial number 191 and higher.

(6) Remove four rivets (7) and two stud base fasteners (8) from window sash assembly (4).



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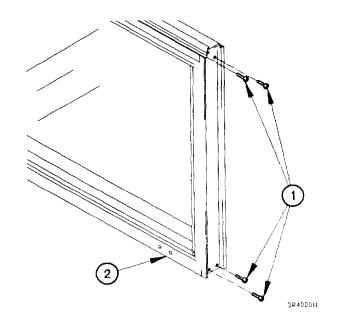
b. Disassembly.

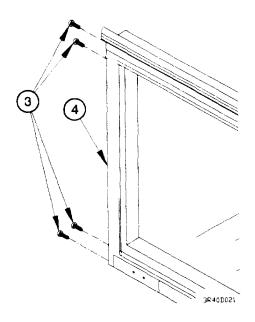
WARNING

Goggles and gloves must be worn when working with glass. Failure to comply may result in injury to personnel.

NOTE

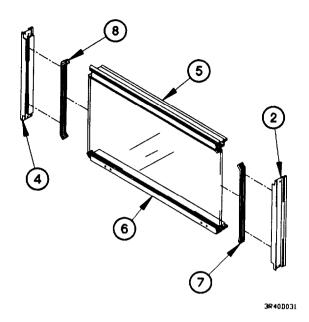
- Van body serial numbers 001 through 190 are equipped with window sash assemblies 30 in. (760 mm) tall. Van bodies serial number 191 and higher are equipped with window sash assemblies 14 in. (355 mm) tall.
- All window sash assemblies are disassembled the same way. Van body serial number 191 window sash assembly shown.
- (1) Remove four screws (1) from RH jamb sash (2).

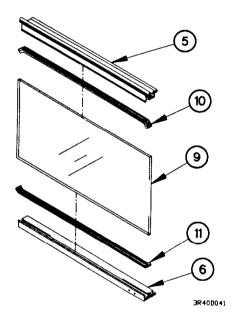




(2) Remove four screws (3) from LH jamb sash (4).

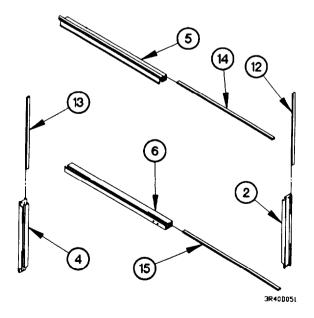
- (3) Remove RH jamb sash (2) from header sash (5) and bottom sash (6).
- (4) Remove LH jamb sash (4) from header sash (5) and bottom sash (6).
- (5) Remove glazing seals (7 and 8) from RH and LH jamb sashes (2 and 4). Discard glazing seals.



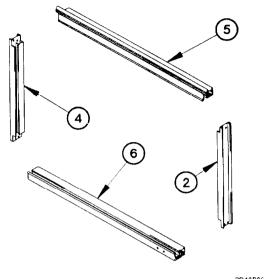


- (6) Remove header sash (5) from glass (9).
- (7) Remove bottom sash (6) from glass (9).
- (8) Remove glazing seals (10 and 11) from header sash (5) and bottom sash (6). Discard glazing seals.

- (9) Remove weather seals (12 and 13) from RH and LH jamb sashes (2 and 4). Discard weather seals.
- (10) Remove weather seals (14 and 15) from header sash (5) and bottom sash (6). Discard weather seals.

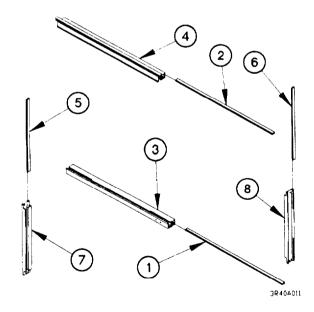


- (11) Remove adhesive from RH and LH jamb sashes (2 and 4).
- (12) Remove adhesive from header sash (5) and bottom sash (6).



3R40D061

c. Assembly.



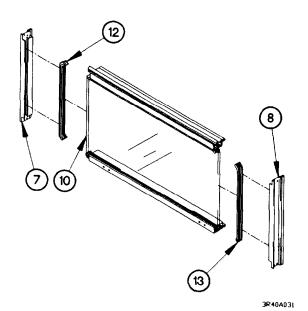
WARNING

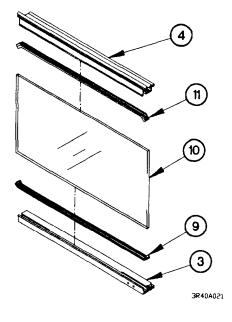
Goggles and gloves must be worn when working with glass. Failure to comply may result in injury to personnel.

NOTE

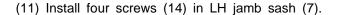
- Van body serial numbers 001 through 190 are equipped with window sash assemblies 30 in. (760 mm) tall. Van bodies serial number 191 and higher are equipped with window sash assemblies 14 in. (355 mm) tall.
- All window sash assemblies are assembled the same way. Van body serial number 191 window sash assembly shown.
- (1) Install weather seals (1 and 2) in bottom sash (3) and header sash (4).
- (2) Install weather seals (5 and 6) in LH and RH jamb sashes (7 and 8).

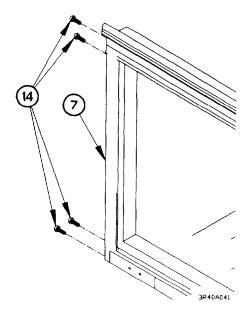
- (3) Install glazing seal (9) on bottom edge of glass (10).
- (4) Install bottom sash (3) on glazing seal (9).
- (5) Install glazing seal (11) on top edge of glass (10).
- (6) Install header sash (4) on glazing seal (11).





- (7) Install glazing seal (12) on left edge of glass (10).
- (8) Install LH jamb sash (7) on glazing seal (12).
- (9) Install glazing seal (13) on right edge of glass (10).
- (10) Install RH jamb sash (8) on glazing seal (13).



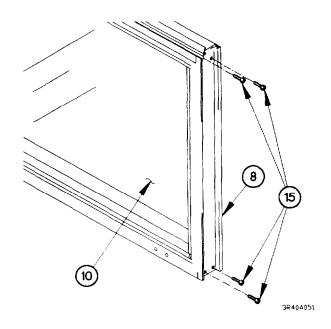


(12) Install four screws (15) in RH jamb sash (8).

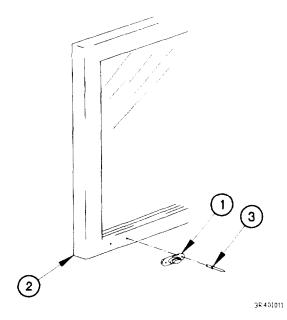
WARNING

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.

(13) Apply adhesive completely around outside edge of glass (10).



d. Installation.



NOTE

- Van body serial numbers 001 through 190 are equipped with five window sash assemblies 30 in. (760 mm) tall. Van bodies serial number 191 and higher are equipped with four window sash assemblies 14 in. (355 mm) tall.
- All window sash assemblies are installed the same way. Left front window sash assembly on van body serial number 191 shown.
- Perform step (1) on van bodies serial number 191 and higher.
- (1) Install two stud base fasteners (1) on window sash (2) with four rivets (3).

(2) Install window sash assembly (2) in window main frame (4).

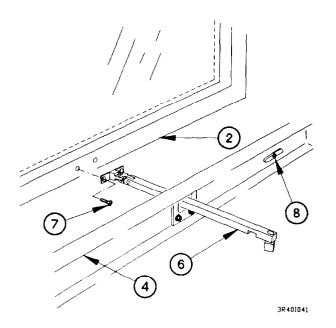
NOTE

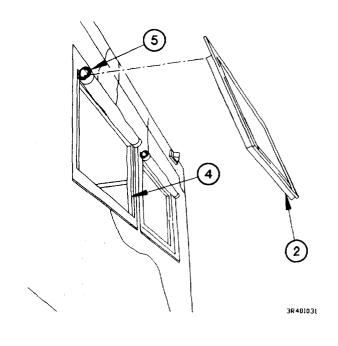
- Steps (3) and (4) require the aid of an assistant.
- Perform step (3) on van bodies serial number 191 and higher.
- (3) Lift lower edge of window cover (5).



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.

(4) Apply adhesive between top edge of window sash assembly (2) and window m ain frame (4).





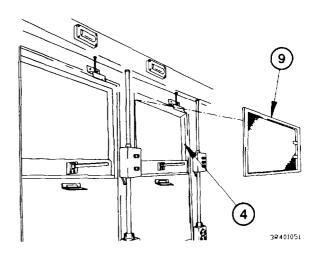
- (5) Install Prop (6) on window sash assembly (2) with two screws (7).
- (6) Close window sash assembly (2).
- (7) Close transport lock (8) on window main frame (4).

(8) Install screen (9) in window main frame (4).



- (1) Lower window cover (van bodies serial number 191 and higher) (TM 9-2320-365-10).
- (2) Close LH and RH doors (TM 9-2320-365-10).





16-40. M1079 WINDOW MAIN FRAME REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Window sash assembly removed (para 16-39). Latch and prop removed (para 16-38). Window cover removed (van bodies serial number 191 and higher) (para 16-41).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Tool Kit, Blind Rivet (Item 43, Appendix C)
Drill, Portable, Electric (Item 7, Appendix C)
Drill Set, Twist (Item 6, Appendix C)
Goggles, Industrial (Item 15, Appendix C)

Materials/Parts

Sealing Compound (Item 67, Appendix D) Rivet, Blind (22) (van body serial numbers 001 through 190) (Item 229, Appendix G) Rivet, Blind (11) (van bodies serial number 191 and higher) (Item 229, Appendix G) Rivet, Blind (5) (van bodies serial number 191 and higher) (Item 234, Appendix G)

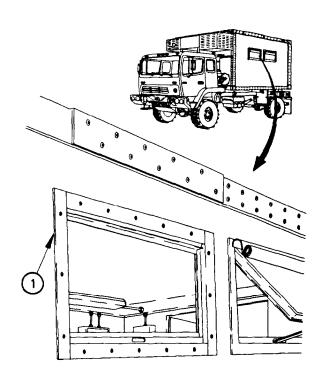
Personnel Required

(2)

a. Removal.

NOTE

- Van body serial numbers 001 through 190 are equipped with five windows 30 in. (760 mm) tall. Van bodies serial number 191 and higher are equipped with four windows 14 in. (355 mm) tall.
- All windows main frames are removed the same way. Left front window main frame on van body serial number 191 shown.
- (1) Remove sealing compound from edges of window main frame (1).



16-40. M1079 WINDOW MAIN FRAME REPLACEMENT (CONT

WARNING

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

NOTE

Perform steps (2) and (3) on van bodies serial number 191 and higher.

(2) Remove five rivets (2) from window main frame (1).

CAUTION

Use care when removing window main frame from van body. Start at one corner and slowly work frame loose. Failure to comply may result in damage to equipment.

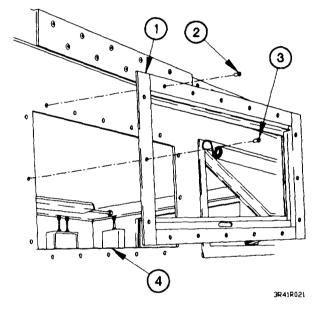
NOTE

Step (3) requires the aid of an assistant.

(3) Remove 11 rivets (3) and window main frame (1) from van body (4).

NOTE

- Perform step (4) on van body serial numbers 001 through 190.
- Step (4) requires the aid of an assistant.
- (4) Remove 22 rivets (3) and window main frame (1) from van body (4).



b. Installation.

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.

CAUTION

Coat all rivets with sealing compound prior to installation. Failure to comply may result in damage to equipment.

NOTE

- Van body serial numbers 001 through 190 are equipped with five windows 30 in. (760 mm) tall. Van bodies serial numbers 191 and higher are equipped with four windows 14 in. (355 mm) tall.
- All windows main frames are installed the same way. Left front window main frame on van body serial number 191 shown.
- (1) Apply sealing compound around window opening in van body (1)

NOTE

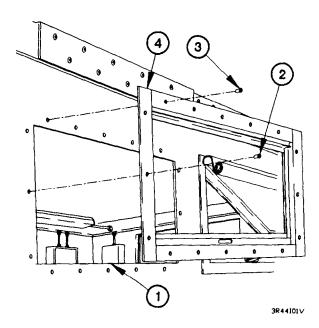
Perform steps (2) through (4) on van bodies serial number 191 and higher.

- (2) Apply sealing compound to 11 rivets (2) and five rivets (3).
- (3) Install window main frame (4) in van body (1) with 11 rivets (2).
- (4) Install five rivets (3) in window main frame (4).

NOTE

Perform steps (5) and (6) on van body serial numbers 001 through 190.

- (5) Apply sealing compound to 22 rivets (2).
- (6) Install window main frame (4) in van body (1) with 22 rivets (2).



16-40. M1079 WINDOW MAIN FRAME REPLACEMENT (CONT)

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.

(7) Apply sealing compound around edges of window main frame (4).

NOTE

Perform step (8) on van body serial numbers 001 through 190.

(8) Apply sealing compound on heads of rivets (2).

NOTE

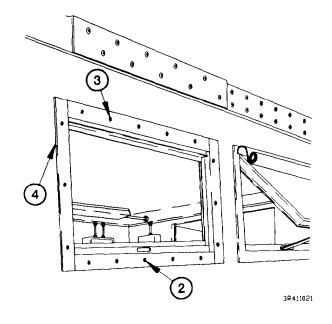
Perform step (9) on van bodies serial number 190 and higher.

(9) Apply sealing compound on heads of rivets (2 and 3).

c. Follow-On Maintenance.

- (1) Install window cover (van bodies serial number 191 and higher) (para 16-41).
- (2) Install window latch and prop (para 16-38).
- (3) Install window sash assembly (para 16-39).

End of Task.



16-41. M1079 WINDOW COVER 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)
Drill, Portable, Electric (Item 7, Appendix C)
Drill Set, Twist (Item 6, Appendix C)

Tools and Specials Tools (Cont)

Goggles, Industrial (Item 15, Appendix C) Tool Kit, Blind Rivet (Item 43, Appendix C)

Materials/Parts

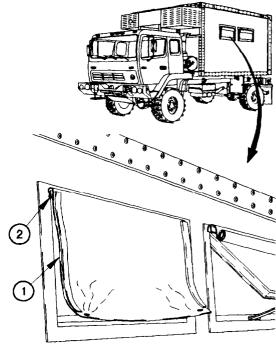
Sealing Compound (Item 67, Appendix D) Rivet, Blind (6) (Item 226, Appendix G)

a. Removal.

NOTE

All window covers are removed the same way. Left front window cover shown.

(1) Remove sealing compound from top edge of window cover (1) and edges of retainer (2).



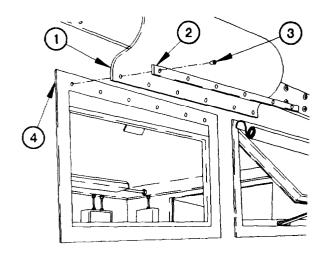
3R42R011

(2) Position window cover (1) to allow access to retainer (2).



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

- (3) Remove six rivets (3), retainer (2), and window cover (1) from window main frame (4).
- (4) Remove sealing compound from top edge of window main frame (4).



3R42R021

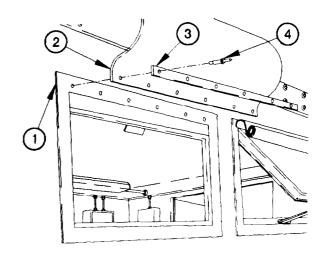
16-41. M1079 WINDOW COVER REPLACEMENT (CONT)

b. Installation.

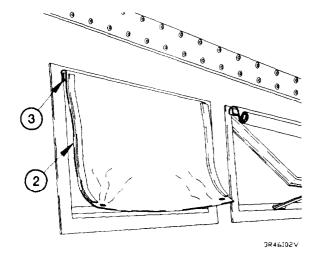
WARNING

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.

- (1) Apply sealing compound to top edge of window main frame (1).
- (2) Install window cover (2) and retainer (3) on window main frame (1) with six rivets (4).



3R421011



- (3) Position window cover (2) to allow access to top edge of window cover.
- (4) Apply sealing compound to top edge of window cover (2) and edges of retainer (3).

End of Task.

16-42. M1079 TAPPING PLATE REPLACEMENT

This task covers:

a. Removalb. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 92320-365-10). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Screwdriver Attachment, Socket Wrench (Item 42, Appendix B)

Personnel Required

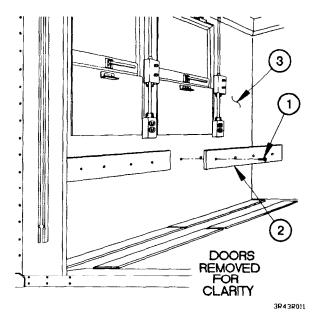
(3)

a. Removal.

NOTE

- Van bodies serial number 191 and higher are equipped with tapping plates on the floor and side walls for mounting accessory items.
- Van body serial numbers 001 through 190 can be equipped with tapping plates on the floor for mounting accessory items.
- Removal of floor tapping plates requires the aid of an assistant.
- Removal of side wall tapping plates requires the aid of two assistants.
- All tapping plates are attached by either three, four or five screws. Van body serial number 191 left side wall front tapping plate shown.

Remove four screws (1) and tapping plate (2) from van body left side wall (3).



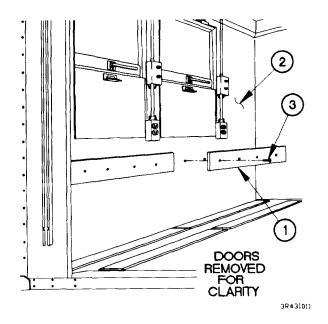
16-42. M1079 TAPPING PLATE REPLACEMENT (CONT)

b. Installation.

NOTE

- Van bodies serial number 191 and higher are equipped with tapping plates on the floor and side walls for mounting accessory items.
- Van body serial numbers 001 through 190 can be equipped with tapping plates on the floor for mounting accessory items.
- Installation of floor tapping plates requires the aid of an assistant.
- Installation of side wall tapping plates requires the aid of two assistants.
- All tapping plates are attached by either three, four or five screws. Van body serial number 191 left side wall front tapping plate shown.

Install tapping plate (1) on van body left side wall (2) with four screws (3).



c. Follow-On Maintenance.

Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-43. M1079 VAN BODY FLOOR TAPPING PLATE INITIAL INSTALLATION (SERIAL NUMBERS 001 THROUGH 190)

This task covers:

a. Floor Tapping Plate Initial Installation

b. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Any loose equipment removed (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Goggles, Industrial (Item 15, Appendix C) Drill Set, Twist (Item 6, Appendix C) Drill, Portable, Electric (Item 7, Appendix C) Tool Kit, Blind Rivet (Item 43, Appendix C)

Materials/Parts

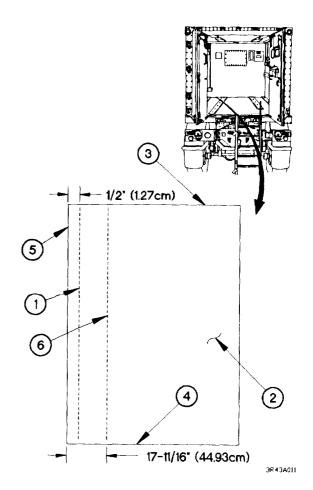
Nut, Blind Rivet (26) (Item 111, Appendix G) Screw, Machine (26) (Item 240, Appendix G) Sealing Compound (Item 67, Appendix D)

Personnel Required

(2)

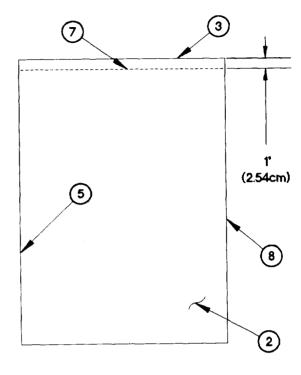
a. Floor Tapping Plate Initial installation.

- (1) Measure and mark a line (1) on van body floor (2) from van body front wall (3) to van body rear wall (4) 1/2 in. (1.25 cm) from van body left side wall (5).
- (2) Measure and mark a line (6) on van body floor (2) from van body front wall (3) to van body rear wall (4) 17-11/16 in. (44.9 cm) from van body left side wall (5).

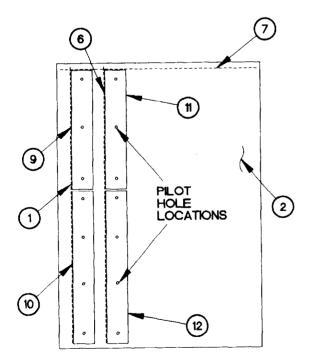


16-43. M1079 VAN BODY FLOOR TAPPING PLATE INITIAL INSTALLATION (SERIAL NUMBERS 001 THROUGH 190) (CONT)

(3) Measure and mark a line (7) on van body floor (2) from van body left side wall (5) to van body right side wall (8) 1 in. (2.54 cm) from van body front wall (3).



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3R43A031

NOTE

Step (4) requires the aid of an assistant.

- (4) Position tapping plates (9 and 10) on van body floor(2) with left edges of tapping plates aligned with line(1) and front edge of tapping plate (9) aligned with line(7).
- (5) Mark locations for drilling pilot holes.

NOTE

Step (6) requires the aid of an assistant.

- (6) Position tapping plates (11 and 12) on van body floor(2) with left edges of tapping plates aligned with line(6) and front edge of tapping plate (11) aligned with line (7).
- (7) Mark locations for drilling pilot holes.

NOTE

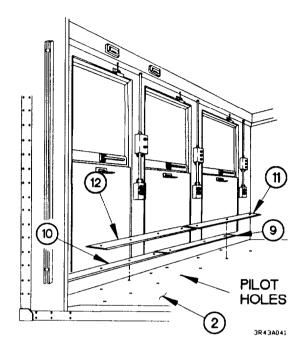
Steps (8) and (9) require the aid of an assistant.

- (8) Remove tapping plates (11 and 12) from van body floor (2).
- (9) Remove tapping plates (9 and 10) from van body floor (2).

WARNING

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

- (10) Drill pilot holes at locations marked in steps (5) and (7).
- (11) Enlarge pilot holes to 1/2 in. (1.27 cm),



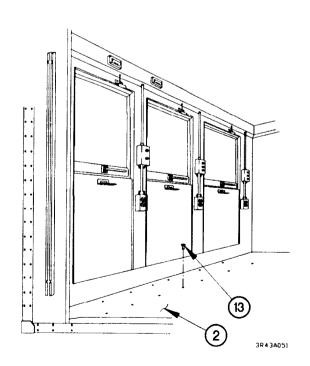


Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

CAUTION

Coat all rivet nuts with sealing compound prior to installation. Failure to comply may result in damage to equipment.

- (12) Apply sealing compound to 14 blind rivet nuts (13).
- (13) Install 14 blind rivet nuts (13) in van body floor (2).

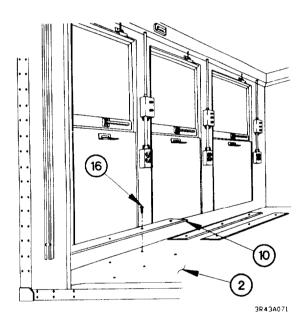


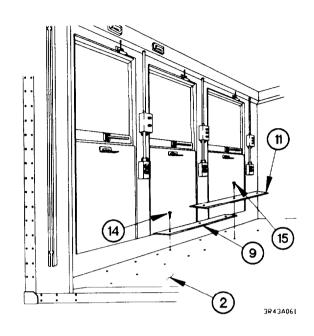
16-43. M1079 VAN BODY FLOOR TAPPING PLATE INITIAL INSTALLATION (SERIAL NUMBERS 001 THROUGH 190) (CONT)

NOTE

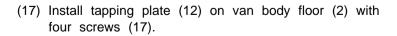
Steps (14) through (17) require the aid of an assistant.

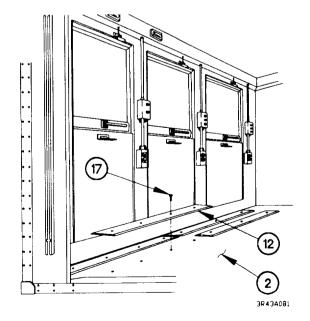
- (14) Install tapping plate (9) on van body floor with three screws (14).
- (15) Install tapping plate (11) on van body floor with three screws (15).



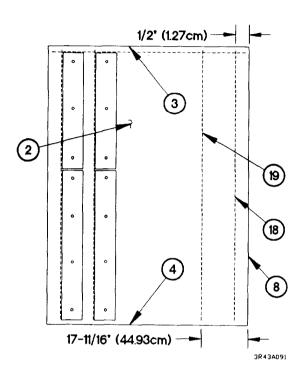


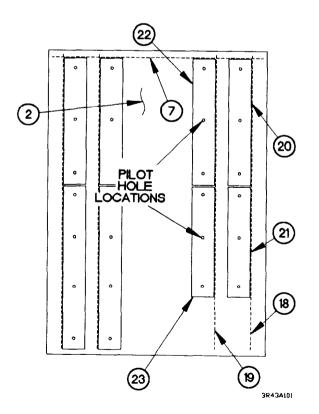
(16) Install tapping plate (10) on van body floor (2) with four screws (16).





- (18) Measure and mark a line (18) on van body floor (2) from van body front wall (3) to van body rear wall (4) 1/2 in. (1.27 cm) from van body right side wall (8).
- (19) Measure and mark a line (19) on van body floor (2) from van body front wall (3) to van body rear wall (4) 17-11/16 in. (44.93 cm) from van body right side wall (8).





NOTE

Step (20) requires the aid of an assistant.

- (20) Position tapping plates (20 and 21) on van body floor (2) with right edges of tapping plates aligned with line (18) and front edge of tapping plate (20) aligned with line (7).
- (21) Mark locations for drilling pilot holes.

NOTE

Step (22) requires the aid of an assistant.

- (22) Position tapping plates (22 and 23) on van body floor (2) with right edges of tapping plates aligned with line (19) and front edge of tapping plate (22) aligned with line (7).
- (23) Mark locations for drilling pilot holes.

16-43. M1079 VAN BODY FLOOR TAPPING PLATE INITIAL INSTALLATION (SERIAL NUMBERS 001 THROUGH 190) (CONT)

NOTE

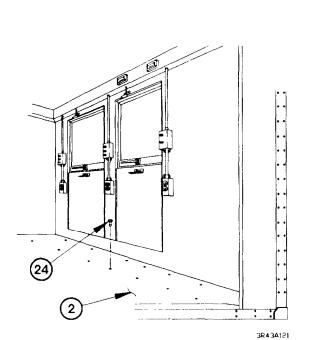
Steps (24) and (25) require the aid of an assistant.

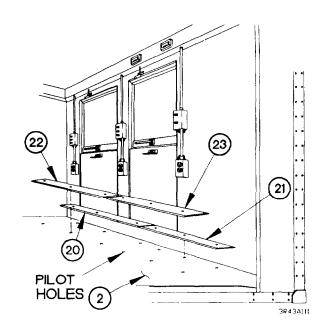
- (24) Remove tapping plates (22 and 23) from van body floor (2).
- (25) Remove tapping plates (20 and 21) from van body floor (2).

WARNING

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

- (26) Drill pilot holes at locations marked in steps (20) and (22).
- (27) Enlarge pilot holes to 1/2 in. (1.27 cm).





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.

CAUTION

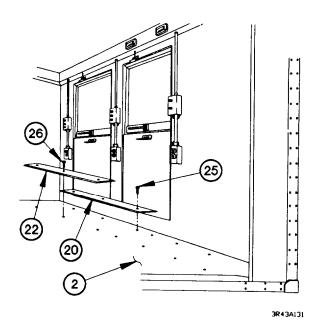
Coat all rivet nuts with sealing compound prior to installation. Failure to comply may result in damage to equipment.

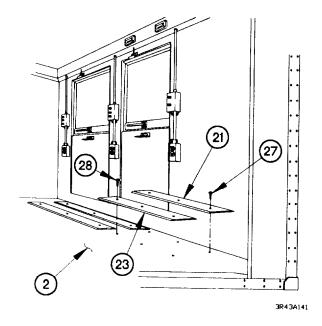
- (28) Apply sealing compound to 12 blind rivet nuts (24).
- (29) Install 12 blind rivet nuts (24) in van body floor (2).

NOTE

Steps (30) through (33) require the aid of an assistant.

- (30) Install tapping plate (20) on van body floor (2) with three screws (25).
- (31) Install tapping plate (22) on van body floor (2) with three screws (26).





- (32) Install tapping plate (21) on van body floor (2) with three screws (27).
- (33) Install tapping plate (23) on van body floor (2) with three screws (28).

b. Follow-On Maintenance.

- (1) Install any loose equipment (TM 9-2320-365-10).
- (2) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

This task covers:

a. Locating Hardpoints for Accessory Mounting

b. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools (Cont)

Goggles, Industrial (Item 15, Appendix C) Tape, Measuring (Item 40, Appendix C)

Materials/Parts

Sealing Compound (Item 67, Appendix D)

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Drill Set, Twist (Item 6, Appendix C)
Drill, Portable, Electric (Item 7, Appendix C)

WARNING

- Heavy objects/loads, such as tool boxes and heavy parts, must always be carried on the floor with the weight distributed as equally as possible between left and right sides of M1079 Van. Failure to comply decreases the stability of the M1079 Van and will increase the likelihood of a rollover.
- Heavy cabinets must always be mounted as low as possible with the weight distributed as equally
 as possible between left and right sides of M1079 Van. Remember to consider the weight of the
 items that will be stored in the cabinets. Failure to comply decreases the stability of the M1079
 Van and will increase the likelihood of a rollover.
- Always keep in mind, when placing items inside the M1079 Van, that heavier items must always
 be positioned as low as possible and the weight distributed as equally as possible between left and
 right sides of M1079 Van. Failure to comply decreases the stability of the M1079 Van and will
 increase the likelihood of a rollover.
- a. Locating Hardpoints for Accessory Mounting.

CAUTION

Accessories mounted in the interior of M1079 Van bodies must be positioned so that mounting fasteners are located in structural frame members. Failure to comply may result in damage to equipment.

NOTE

- This task shows only the hardpoints suitable for supporting mounted accessories. Refer to Figures 16-1 through 16-6. M1079 Van Body Interior Accessory Mounting Hardpoints for details.
- The user is responsible for selecting the correct size and number of blind rivet nuts to be installed.
 Refer to Table 16-1. M1079 Van Body Accessory Mounting Blind Rivet Nuts for details.
- Alternative blind rivet nuts, not listed in Table 16-1. M1079 Van Body Accessory Mounting Blind Rivet Nuts, may be used if the dimension 0.415 in. (1.05 cm) falls within their grip range and maximum hole size of 0.500 in. (1.27 cm) is not exceeded.

0.423

0.500

0.500

0.413

0.490

0.490

 Part Number
 Thread Size
 Grip Range
 Drill Size
 Install Hole size

 Min.
 Max.

 MS27130-47
 5/16-18 UNC
 0.350-0.425
 Z
 0.413
 0.423

0.350-0.425

0.370-0.455

0.370-0.455

Ζ

12.5 mm

12.5 MM

Table 16-1. M1079 Van Body Accessory Mounting Blind Rivet Nuts

(1) Determine appropriate mounting location for accessory. Refer to Figure 16-1 through 16-6. M1079 Van Body Interior Accessory Mounting Hardpoints.

WARNING

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

(2) Drill pilot hole(s) for blind rivet nut(s).

MS27130-53

MS27130-59

MS27130-65

5/16-24 UNF 3/8-16 UNC

3/8-24 UNF

(3) Enlarge pilot hole(s) to correct size. Refer to Table 16-1. M1079 Van Body Accessory Mounting Blind Rivet Nuts.

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.

CAUTION

Coat all blind rivet nuts with sealing compound prior to installation. Failure to comply may result in damage to equipment.

- (4) Coat blind rivet nut(s) with sealing compound.
- (5) Install blind rivet nut(s) in hole(s) enlarged in step (3).

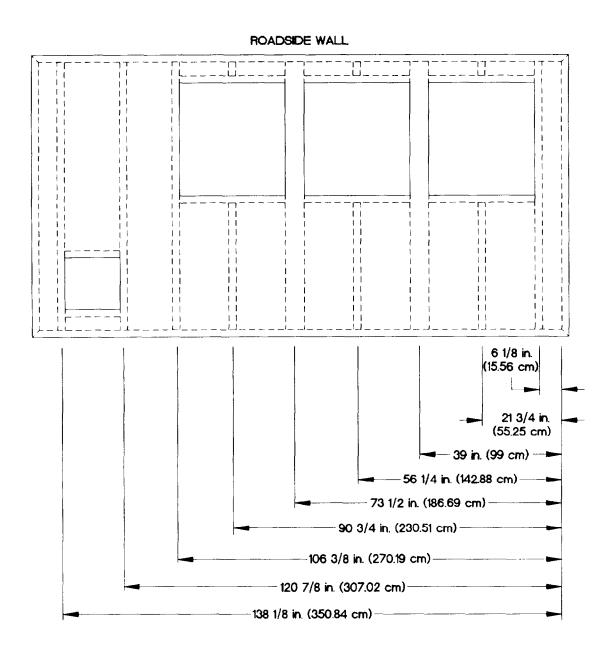


Figure 16-1. M1079 Van Body Interior Accessory Mounting Hardpoints. (Serial Numbers 001 through 190)

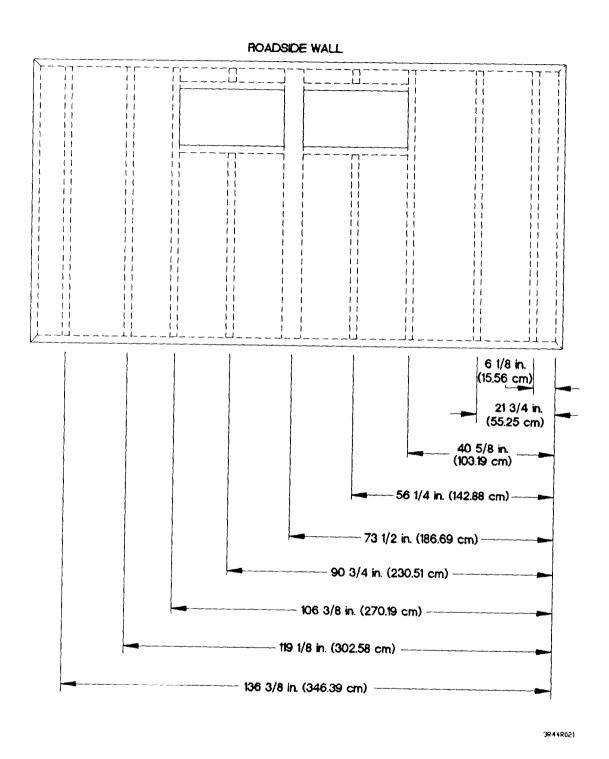


Figure 16-2. M1079 Van Body Interior Accessory Mounting Hardpoints. (Serial Numbers 191 and Higher)

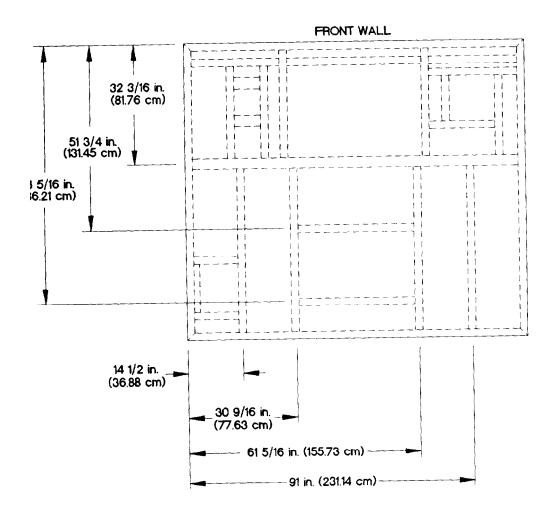


Figure 16-3. M1079 Van Body Interior Accessory Mounting Hardpoints.

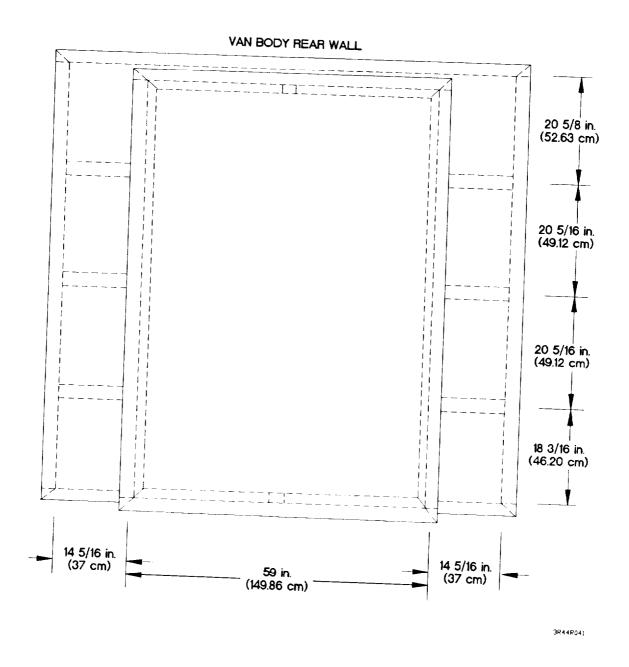


Figure 16-4. M1079 Van Body Interior Accessory Mounting Hardpoints.

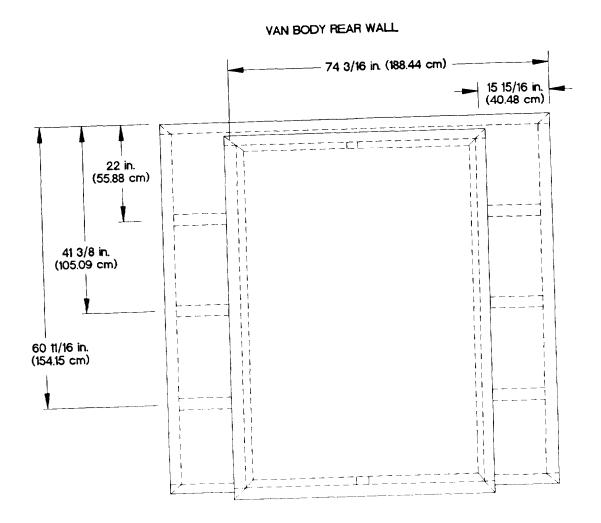


Figure 16-4. M1079 Van Body Interior Accessory Mounting Hardpoints (Cont).

CURBSIDE WALL 6 1/8 in. (15.56 cm) 21 3/4 in. (55.25 cm) -39 in. (99 cm) ---56 1/4 in. (142.88 cm)-73 1/2 in. (186.69 cm)-- 90 3/4 in. (230.51 cm)-106 3/8 in. (270.19 cm) ---· 119 1/8 in. (302.58 cm) -136 3/8 in. (346.39 cm) -

Figure 16-5. M1079 Van Body Interior Accessory Mounting Hardpoints. (Serial Numbers 001 through 190)

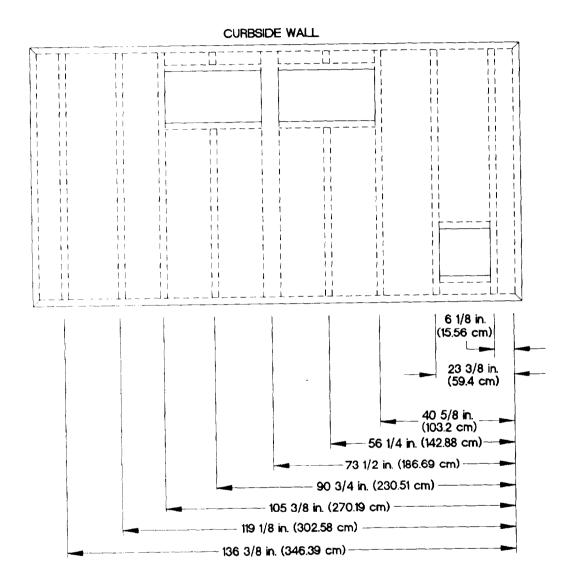


Figure 16-6. M1079 Van Body Interior Accessory Mounting Hardpoints. (Serial Numbers 191 and Higher)

b. Follow-On Maintenance.

- (1) Install accessory item(s).
- (2) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-45. M1079 RACEWAY COVER REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

Lockwasher (4) (Item 76, Appendix G)

Materials/Parts

INITIAL SETUP

Equipment Conditions

Engine shut down (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)

a. Removal.

NOTE

Removal of raceway covers with lights or conduits attached can be found in para 16-58 or 16-59.

Remove four screws (1), lockwashers (2), washers (3), and raceway cover (4) from raceway (5). Discard lockwashers.

b. Installation.

NOTE

Installation of raceway covers with lights or conduits attached can be found in para 16-58 or 16-59.

Install raceway cover (4) on raceway (5) with four washers (3), lockwashers (2), and screws (1).

FLUORECENT LIGHT REMOVED FOR CLARITY 3845R0H

c. Follow-On Maintenance.

Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-46. M1079 RACEWAY REPLACEMENT

This task covers:

- a. Front Raceway Removal
- b. Front Raceway Installation
- c. Side Raceway Removal
- d. Side Raceway Installation

- e. Rear Raceway Removal
- f. Rear Raceway Installation
- g. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Front Raceway;

Heater and air conditioner covers removed, if equipped (para 16-31).

Fan switch/box, and conduit removed (para 16-54).

Heater thermostat connector removed from raceway (para 16-48).

Heater connector removed from raceway (para 16-49)

Air conditioner ECU connector removed from raceway (para 16-47).

12/24 vdc power entry connector removed (para 16-71).

Front, Left and Right Side Raceways;

110 vac outlet/box and conduit removed (para 16-53).

24 vdc binding post/box and conduit removed (para 16-52).

Field telephone binding post/box and conduit removed (para 16-51).

Blackout switch removed (para 16-57).

Left Side Rear Raceway;

Blackout switch removed (para 16-57).

Right Side Rear Raceway;

110/208 VAC POWER DISTRIBUTION PANEL removed (para 16-66).

Blackout switch removed (para 16-57).

Equipment Conditions (Cont)

Rear Raceway;

Fluorescent lights and conduits removed (para 16-59).

Relay box assembly removed (para 16-63).

Door ajar switch and conduit removed (para 16-55).

Raceway cover removed (para 16-45).

LH and RH doors opened (180 degrees) (TM 9-2320-365-10).

Tools and Special Tools

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

Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)

Ties, Cable, Plastic (Item 76, Appendix D)

Lockwasher (17) (for front raceway) (Item 80,

Appendix G)

Strain Relief (for side raceways) (Item 263,

Appendix G)

Strain Relief (for left side rear raceway on van body serial numbers 001 through 190) (Item 263,

Appendix G)

Lockwasher (6) (for rear raceway) (Item 83,

Appendix G)

Lockwasher (2) (for rear raceway) (Item 77,

Appendix G)

Splice, Conductor (1) (for front raceway) (Item 261,

Appendix G)

Splice, Conductor (1) (for rear raceway) (Item 261,

Appendix G)

Splice, Conductor (1) (for rear raceway) (Item 262,

Appendix G)

16-46. M1079 RACEWAY REPLACEMENT (CONT)

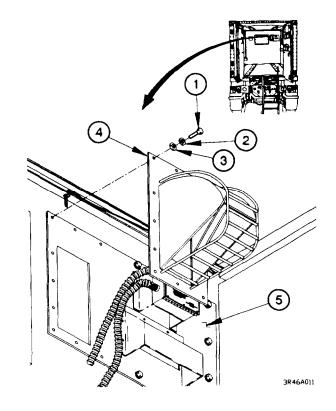
a. Front Raceway Removal.

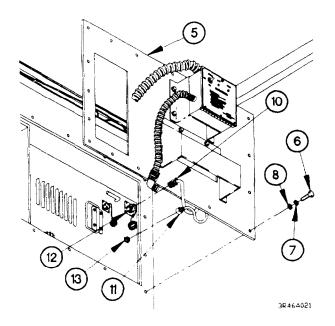
CAUTION

Use care when removing heater deflector and cover, electrical cables are attached. Failure to comply may result in damage to equipment.

NOTE

- Perform steps (1) through (3) if heater kit is installed.
- Steps (1) through (3) require the aid of an assistant.
- (1) Remove nine screws (1), lockwashers (2), washers (3), and heater deflector (4) from heater cover (5). Discard lockwashers.



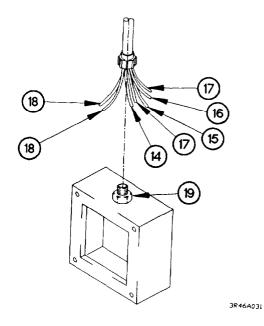


(2) Remove nine screws (6), lockwashers (7), washers (8), and heater cover (5) from van body wall (9). Discard lockwashers.

NOTE

- Tag connectors and connection points prior to disconnecting.
- Remove plastic cable ties as required.
- (3) Disconnect connectors J244A (10) and P4A (11) from heater power connector (12) and connector J4 (13).

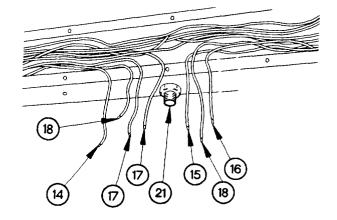
(4) Remove wire 2010 (14), 2006 (15), 2040 (16) two wires 3086 (17), and two wires 1507 (18) 'from conduit connector (19).



18 7 15

(5) Remove conduit (20) from wires 2010 (14) 2006 (15), 2040 (16), two wires 3086 (17), and two wires 1507 (18).

3R46A041



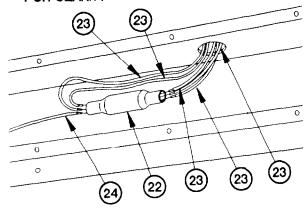
(6) Remove wires 2010 (14), 2006 (15), 2040 (16) two wires 3086 (17), and two wires 1507 (18) from conduit connector (21).

3R46A051

NOTE

- Tag wires and connection points prior to removal.
- Remove plastic cable ties as required.
- (7) Remove conductor splice (22) from five wires 2040 (23) and wire 2040 (24). Discard conductor splice.

WIRING REMOVED FOR CLARITY



3R46A061

3946A071

CAUTION

Use care when removing raceway so that wiring is not cut or insulation removed. Failure to comply may result in damage to equipment.

NOTE

Step (8) requires the aid of an assistant.

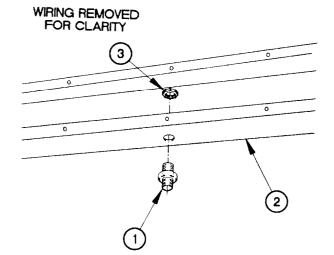
(8) Remove eight screws (25) and raceway (26) from van body wall (9).

(9) Remove locknut (27) and conduit connector (21) from raceway (26).

WIRING REMOVED FOR CLARITY 27 0 0 0 0 0 0 26

3R46A081

b. Front Raceway Installation.



(1) Install conduit connector (1) in raceway (2) with locknut (3).

3R46F011

CAUTION

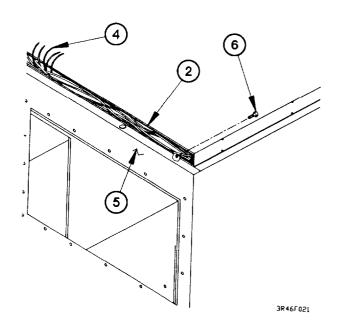
Use care when installing raceway so that wiring is not cut or insulation removed. Failure to comply may result in damage to equipment.

(2) Position five wires 2040 (4) in raceway (2).

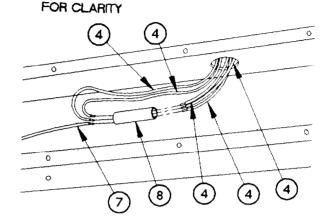
NOTE

Step (3) requires the aid of an assistant.

(3) Install raceway (2) on van body wall (5) with eight screws (6).

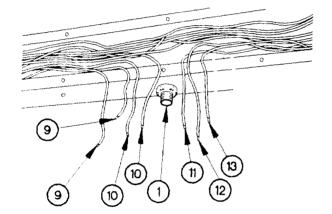


(4) Install five wires 2040 (4) and wire 2040 (7) in conductor splice (8).



WIRING REMOVED

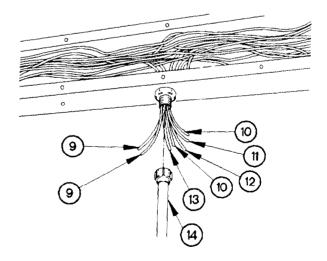
3R46F031



(5) Route two wires 1507 (9), two wires 3086 (10) wires 2040 (11), 2006 (12), and 2010 (13) through conduit connector (1).

3R46F041

(6) Route two wires 1507 (9), two wires 3086 (10) wires 2040 (11), 2006 (12), and 2010 (13) through conduit (14).

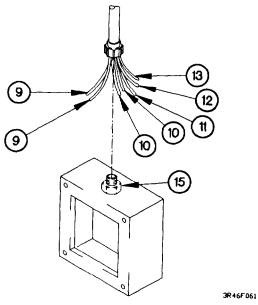


3R46F051

NOTE

Install plastic cable ties as required.

(7) Route two wires 1507 (9), two wires 3086 (10), wires 2040 (11), 2006 (12), and 2010 (13) through conduit connector (15).



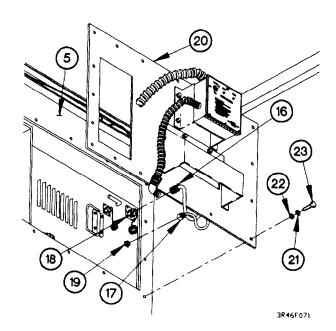
NOTE

- Perform steps (8) through (10) if heater kit is installed.
- Steps (8) through (10) require the aid of an assistant.
- (8) Connect connectors J244A (16) and P4A (17) to heater power connector (18) and connector J4 (19).

CAUTION

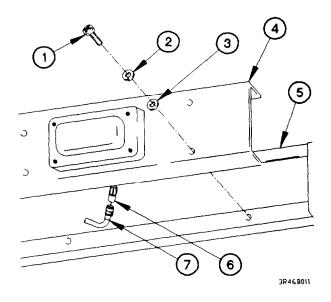
Use care when installing heater cover and deflector, electrical cables are attached. Failure to comply may result in damage to equipment.

(9) Install heater cover (20) on van body wall (5) with nine washers (21), lockwashers (22), and screws (23).

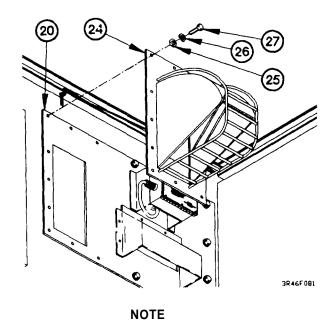


(10) Install heater deflector (24) on heater cover (20) with nine washers (25), lockwashers (26), and screws (27).

c. Side Raceway Removal.

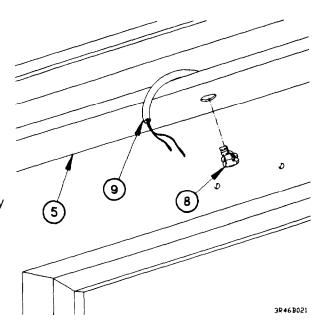


(3) Remove strain relief (8) and wires (9) from raceway (5). Discard strain relief.



Perform steps (1) and (2) on left rear raceway.

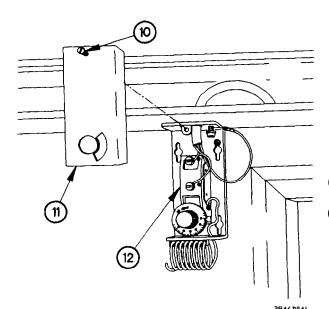
- (1) Remove 12 screws (1), lockwashers (2), washers (3), and cover (4) from raceway (5). Discard lockwashers.
- (2) Disconnect emergency light connector J165 (6) from connector P165 (7).

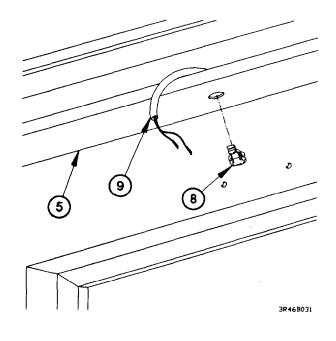


NOTE

Perform step (4) on van body serial numbers 001 through 190 for left side rear raceway removal.

(4) Remove strain relief (8) and wires (9) from raceway (5). Discard strain relief.





NOTE

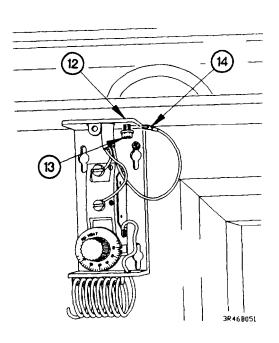
Perform steps (5) through (14) on left side rear raceway if heater kit is installed.

- (5) Loosen screw (10) on thermostat cover (11).
- (6) Remove thermostat cover (11) from thermostat (12).

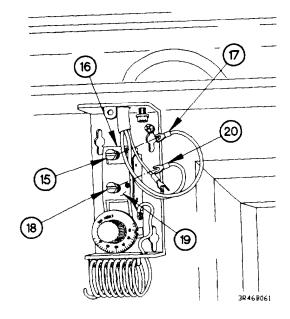


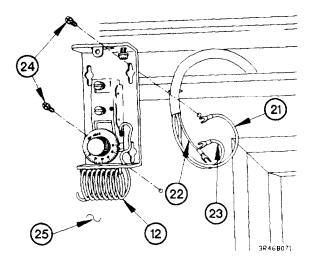
Tag terminal lugs and connection points prior to removal.

- (7) Loosen screw (13) on thermostat (12).
- (8) Remove wire 3086C terminal lug (14) from thermostat (12).



- (9) Loosen screw (15) on thermostat terminal 1 (16).
- (10) Remove wire 1499R terminal lug (17) from thermostat terminal 1 (16).
- (11) Loosen screw (18) on thermostat terminal 3 (19).
- (12) Remove wire 401 terminal lug (20) from thermostat terminal 3 (19).





- (13) Remove wires 1499R (21), 401 (22), and 3086C (23) from thermostat (12).
- (14) Remove two screws (24) and thermostat (12) from van body wall (25).

CAUTION

Use care when removing raceway so that wiring is not cut or insulation removed. Failure to comply may result in damage to equipment.

NOTE

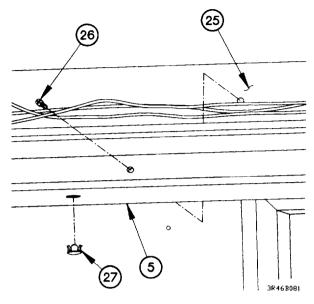
Step (15) requires the aid of an assistant.

(15) Remove six screws (26) and raceway (5) from van body wall (25).

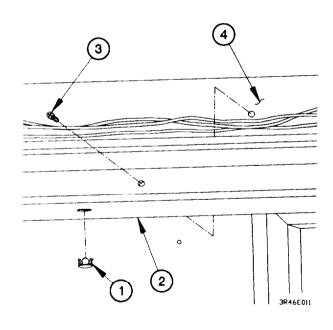
NOTE

Perform step (16) on left side rear raceway if heater kit is not installed.

(16) Remove plug (27) from raceway (5).



d. Side Raceway Installation.



NOTE

Perform step (1) on left side rear raceway if heater kit is not installed.

(1) Install plug (1) in raceway (2).

CAUTION

Use care when installing raceway so that wiring is not cut or insulation removed. Failure to comply may result in damage to equipment.

NOTE

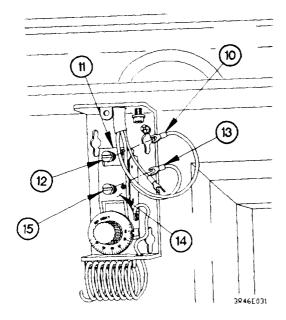
Step (2) requires the aid of an assistant.

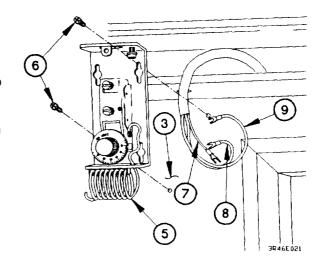
(2) Install raceway (2) on van body wall (3) with six screws (4).

NOTE

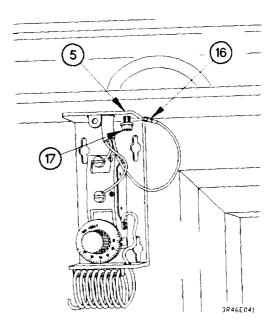
Perform steps (3) through (12) on left side rear raceway if heater kit is installed.

- (3) Install thermostat (5) on van body wall (3) with two screws (6).
- (4) Route wires 3086C (7), 401 (8), and 1499R (9) in thermostat (5).



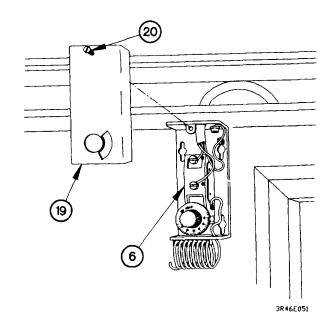


- (5) Install wire 1499R terminal lug (10) on thermostat terminal 1 (11).
- (6) Tighten screw (12) on thermostat terminal 1 (11).
- (7) Install wire 401 terminal lug (13) on thermostat 3 terminal (14).
- (8) Tighten screw (15) on thermostat terminal 3 (14).



- (9) Install wire 3086C terminal lug (16) on thermostat (5).
- (10) Tighten screw (17) on thermostat (5).

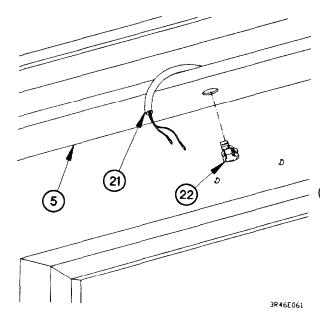
- (11) Install thermostat cover (18) on thermostat (5).
- (12) Tighten screw (19) in thermostat cover (18).



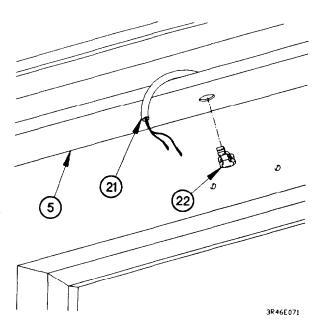
NOTE

Perform step (13) on van body serial numbers 001 through 190 for left side rear raceway installation.

(13) Install wires (20) in raceway (4) with strain relief (21).



(14) Install wires (20) in raceway (4) with strain relief (21).



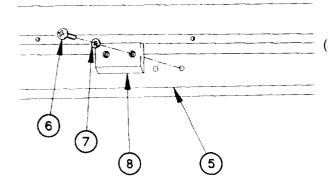
e. Rear Raceway Removal.

NOTE

LH and RH door brackets are removed the same way. LH door bracket shown.

- (1) Remove three screws (1), lockwashers (2), washers (3), and bracket (4) from van body wall (5). Discard lockwashers.
- (2) Perform step (1) on right side.

WIRING REMOVED FOR CLARITY



(3) Remove two screws (6), lockwashers (7), and latch striker (8) from van body wall (5). Discard lockwashers.

(5)

WIRING REMOVED

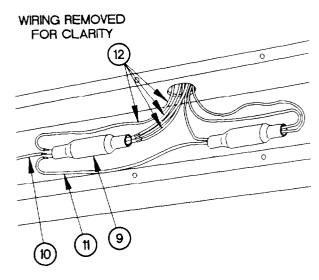
FOR CLARITY

3R46C011



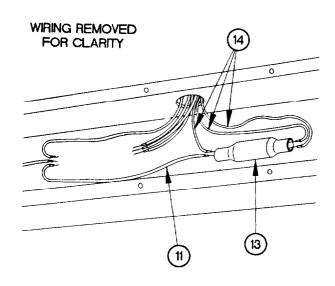
NOTE

- Tag wires and connection points prior to removal.
- Remove plastic cable ties as required.
- (4) Remove conductor splice (9) from wire 2040 (10), jumper wire (11), and four wires 2040 (12). Discard conductor splice.

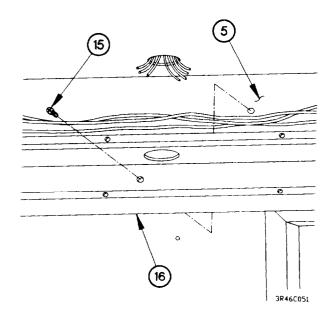


3R46C031

(5) Remove conductor splice (13) from jumper wire (11) and three wires 2040 (14). Discard conductor splice.



3R46C041



CAUTION

Use care when removing raceway so that wiring is not cut or insulation removed. Failure to comply may result in damage to equipment.

NOTE

Step (6) requires the aid of an assistant.

(6) Remove eight screws (15) and raceway (16) from van body wall (5).

f. Rear Raceway Installation.

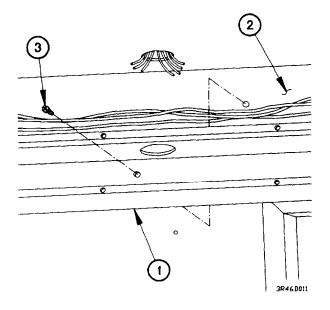
CAUTION

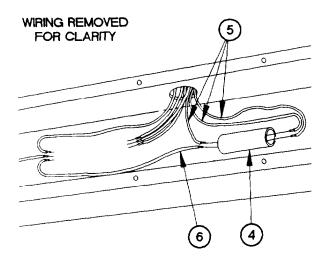
Use care when installing raceway so that wiring is not cut or insulation removed. Failure to comply may result in damage to equipment.

NOTE

Step (1) requires the aid of an assistant.

(1) Install raceway (1) on van body wall (2) with eight screws (3).





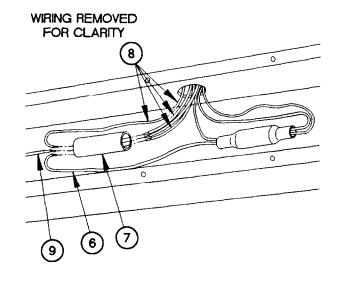
NOTE

Install plastic cable ties as required.

(2) Install conductor splice (4) on three wires 2040 (5) and jumper wire (6).

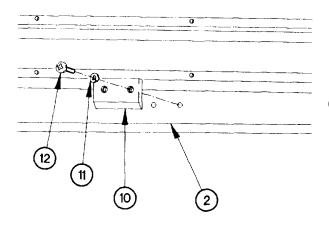
3R46D021

(3) Install conductor splice (7) on four wires 2040 (8), jumper wire (6), and wire 2040 (9).



3R46D031

WIRING REMOVED FOR CLARITY



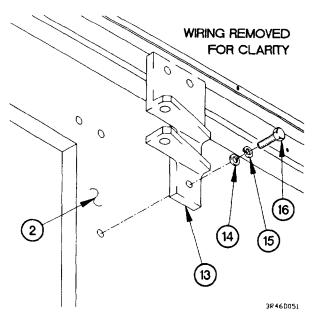
(4) Install latch striker (10) on van body wall (2) with two lockwashers (11) and screws (12).

3R46D041

NOTE

LH and RH door brackets are installed the same way. LH door bracket shown.

- (5) Install bracket (13) on van body wall (2) with three washers (14), lockwashers (15), and screws (16).
- (6) Perform step (5) on right side.



g. Follow-On Maintenance.

Front Raceway:

- (1) Install air conditioner ECU connector (para 16-47).
- (2) Install heater connector (para 16-49).
- (3) Install heater thermostat connector (para 16-48).
- (4) Install fan switch/box and conduit (para 16-54).
- (5) Install 12/24 vdc power entry panel connector (para 16-71).
- (6) Install heater and air conditioner covers, if equipped (para 16-31).

Left and Right Side Front Raceways:

- (1) Install blackout switch (para 16-57).
- (2) Install field telephone binding post/box and conduit (para 16-51).
- (3) Install 24 vdc binding post/box and conduit (para 16-52).
- (4) Install 110 vac outlet/box and conduit (para 16-53).

Left Side Rear Raceway:

Install blackout switch (para 16-57).

Right Side Rear Raceway:

- (1) Install blackout switch (para 16-57).
- (2) Install 110/208 VAC POWER DISTRIBUTION PANEL (para 16-66).

Rear Raceway:

- (1) Install door ajar switch and conduit (para 16-55).
- (2) Install relay box assembly (para 16-63).
- (3) Install fluorescent lights and conduits (para 16-59).
- (4) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-47. M1079 AIR CONDITIONER ECU CONNECTOR REPLACEMENT

This task covers:

a. Removal

b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

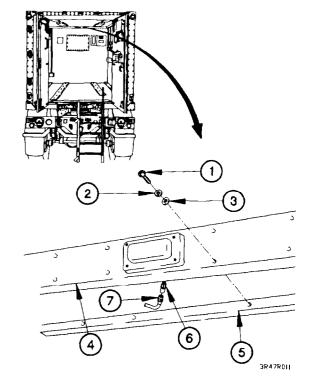
Tool Kit, Genl Mech (Item 44, Appendix C) Soldering Iron, Electric (Item 72, Appendix B) Heater, Gun Type, Electric (Item 20, Appendix B)

Materials/Parts

Lockwasher (4) (Item 79, Appendix G)
Dispenser, Pressure Sensitive Adhesive Tape
(Item 21, Appendix D)
Lockwasher (16) (Item 76, Appendix G)
Insulation Sleeving, Electrical (Item 31,
Appendix D)
Solder, Tin Alloy (Item 70, Appendix D)

a. Removal.

- (1) Remove 16 screws (1), lockwashers (2), washers (3), and raceway cover (4) from raceway (5). Discard lockwashers.
- (2) Disconnect connector P166 (6) from connector J166 (7).

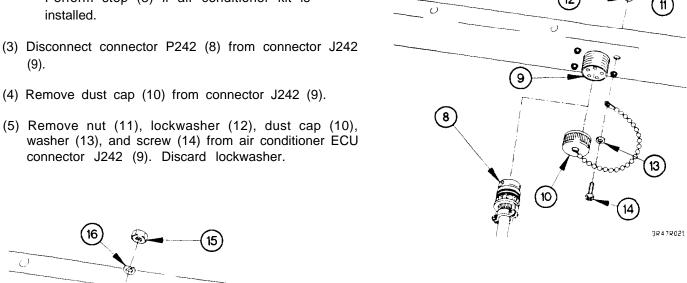


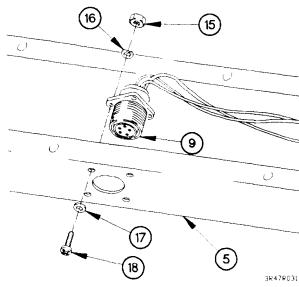
16-47. M1079 AIR CONDITIONER ECU CONNECTOR REPLACEMENT (CONT)

NOTE

Perform step (3) if air conditioner kit is

- (3) Disconnect connector P242 (8) from connector J242
- (4) Remove dust cap (10) from connector J242 (9).
- connector J242 (9). Discard lockwasher.





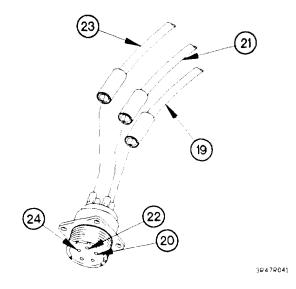
(17), screws (18), and air conditioner ECU connector J242 (9) from raceway (5). Discard lockwashers.

(6) Remove three nuts (15), lockwashers (16), washers

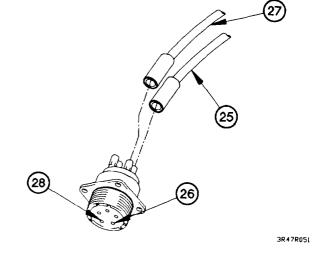
NOTE

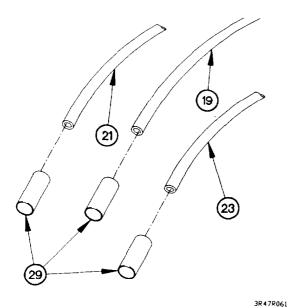
Tag wires and connection points prior to removal.

- (7) Remove wire 1500 (19) from air conditioner ECU connector J242 PIN A (20).
- (8) Remove wire 1501 (21) from air conditioner ECU connector J242 PIN B (22).
- (9) Remove wire 1502 (23) from air conditioner ECU connector J242 PIN C (24).



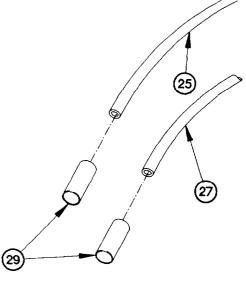
- (10) Remove wire 1499M (25) from air conditioner ECU connector J242 PIN D (26).
- (11) Remove wire 3085D (27) from air conditioner ECU connector J242 PIN E (28).





(12) Remove insulation sleeving (29) from wires 1500 (19), 1501 (21), and 1502 (23). Discard insulation sleeving.

(13) Remove insulation sleeving (29) from wires 1499M (25) and 3085D (27). Discard insulation sleeving.

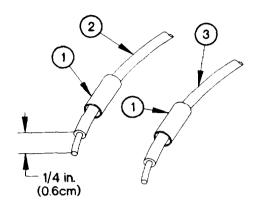


3R47R07L

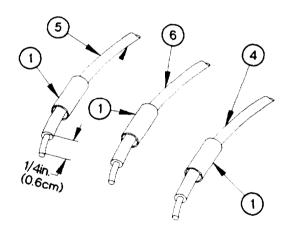
16-47. M1079 AIR CONDITIONER ECU CONNECTOR REPLACEMENT (CONT)

b. Installation.

- (1) Position insulation sleeving (1) on wires 3085D (2) and 1499M (3).
- (2) Strip approximately 1/4 in. (0.6 cm) of insulation from wires 3085D (2) and 1499M (3).



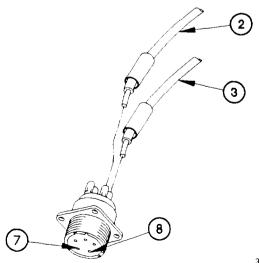
3R471011



- (3) Position insulation sleeving (1) on wires 1502 (4), 1501 (5), and 1500 (6).
- (4) Strip approximately 1/4 in. (0.6 cm) of insulation from wires 1502 (4), 1501 (5), and 1500 (6).

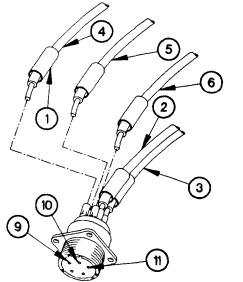
3R471021

- (5) Solder wire 3085D (2) to air conditioner ECU connector J242 PIN E (7).
- (6) Solder wire 1499M (3) to air conditioner ECU connector J242 PIN D (8).

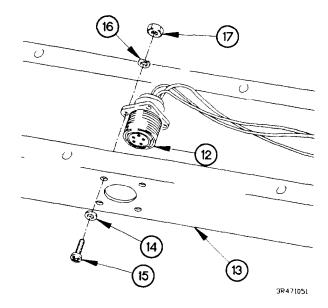


3R471031

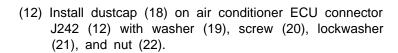
- (7) Solder wire 1502 (4) to air conditioner ECU connector J242 PIN C (9).
- (8) Solder wire 1501 (5) to air conditioner ECU connector J242 PIN B (10).
- (9) Solder wire 1500 (6) to air conditioner ECU connector J242 PIN A (11).
- (10) Shrink insulation sleeving (1) on wires 3085D (2), 1499M (3), 1502 (4), 1501 (5), and 1500 (6).



3R47(04)



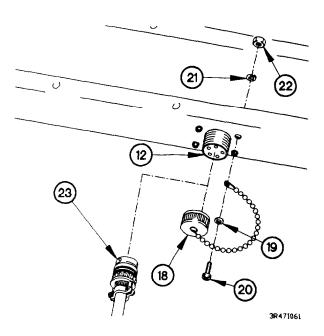
(11) Install air conditioner ECU connector J242 (12) in raceway (13) with three washers (14), screws (15), lockwashers (16), and nuts (17).



NOTE

Perform step (13) if air conditioner kit is installed.

- (13) Connect connector P242 (23) to connector J242 (12).
- (14) Install dust cap (18) on connector J242 (12).



16-47. M1079 AIR CONDITIONER ECU CONNECTOR REPLACEMENT (CONT)

- (15) Connect connector P166 (24) to connector J166 (25).
- (16) Install raceway cover (26) on raceway (13) with 16 washers (27), lockwashers (28), and screws (29).

28 27 25 26 24 13

3R471071

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check for proper operation of air conditioner, if installed (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-48. M1079 HEATER THERMOSTAT CONNECTOR REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

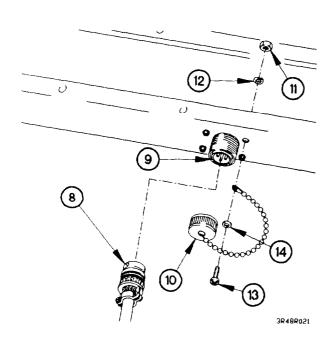
Tool Kit, Genl Mech (Item 44, Appendix C)
Tool Kit, Auto Fuel (Item 42, Appendix C)
Heater, Gun Type, Electric (Item 20, Appendix B)
Soldering Iron, Electric (Item 72, Appendix B)

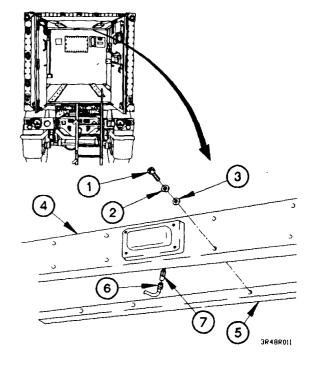
Materials/Parts

Lockwasher (4) (Item 79, Appendix G)
Dispenser, Pressure Sensitive Adhesive Tape
(Item 21, Appendix D)
Lockwasher (16) (Item 81, Appendix G)
Insulation Sleeving, Electrical (Item 31,
Appendix D)
Solder, Tin Alloy (Item 70, Appendix D)

a. Removal.

- (1) Remove 16 screws (1), lockwashers (2), washers (3), and raceway cover (4) from raceway (5). Discard lockwashers.
- (2) Disconnect connector J166 (6) from connector P166 (7).





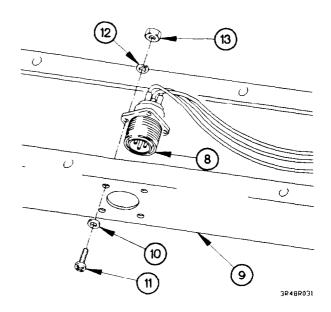
NOTE

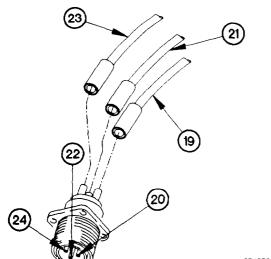
Perform step (3) if heater kit is installed.

- (3) Disconnect connector P245 (8) from connector J245 (9).
- (4) Remove dust cap (10) from connector J245 (9).
- (5) Remove nut (11), lockwasher (12), screw (13), washer (14), and dustcap (10) from connector J245 (9). Discard lockwasher.

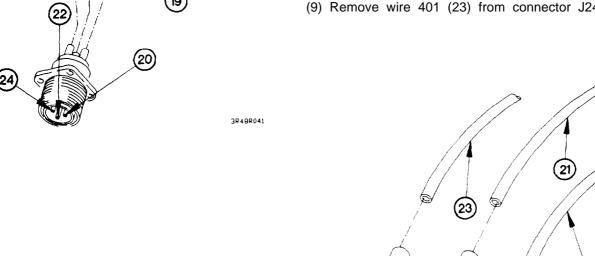
16-48. M1079 THERMOSTAT CONNECTOR J245 REPLACEMENT (CONT)

(6) Remove three nuts (15), lockwashers (16), screws (17), washers (18), and connector J245 (9) from raceway (5). Discard lockwashers.

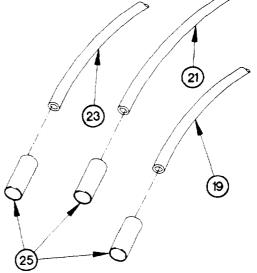




- (7) Remove wire 1499R (19) from connector J245A (20).
- (8) Remove wire 3086C (21) from connector J245B (22).
- (9) Remove wire 401 (23) from connector J245C (24).



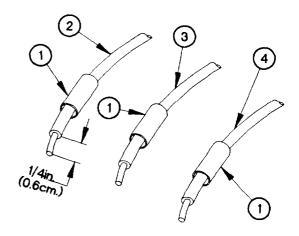
(10) Remove insulation sleeving (25) from wires 1499R (19), 3086C (21), and 401 (23).



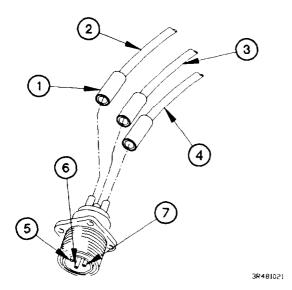
3R48R051

b. Installation.

- (1) Install insulation sleeving (1) on wires 401 (2), 3086C (3), and 1499R (4).
- (2) Strip approximately 1/4 in. (0.6 cm) of insulation from wires 401 (2), 3086A (3), and 1499R (4).

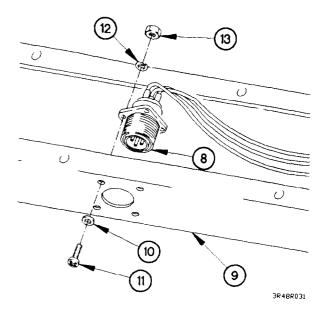


3R48J011



- (3) Solder wire 401 (2) to connector J245C (5).
- (4) Solder wire 3086C (3) to connector J245B (6).
- (5) Solder wire 1499R (4) to connector J245A (7).
- (6) Shrink insulation sleeving (1) on wires 401 (2), 3086C (3), and 1499R (4).

(7) Install connector J245 (8) in raceway (9) with three washers (10), screws (11), lockwashers (12), and nuts (13).



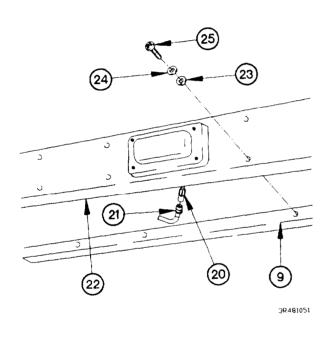
16-48. M1079 THERMOSTAT CONNECTOR J245 REPLACEMENT (CONT)

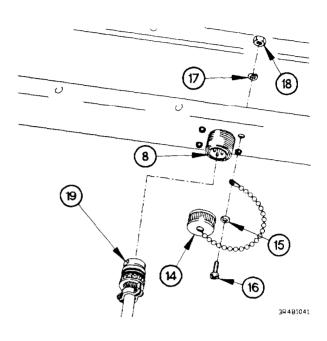
(8) Install dustcap (14) on connector J245 (8) with washer (15), screw (16), lockwasher (17), and nut (18).

NOTE

Perform step (9) if heater kit is installed.

- (9) Connect connector P245 (19) to connector J245 (8).
- (10) Install dust cap (14) on connector J245 (8).





- (11) Connect connector J166 (20) to connector P166 (21).
- (12) Install raceway cover (22) on raceway (9) with 16 washers (23), lockwashers (24), and screws (25).

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check for proper operation of thermostat (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-49. M1079 HEATER CONNECTOR REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

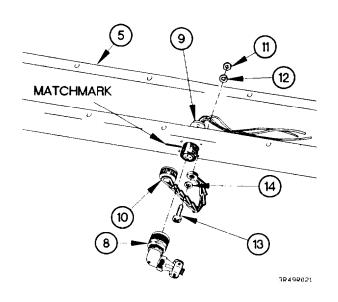
Tool Kit, Genl Mech (Item 44, Appendix C) Heater, Gun Type, Electric (Item 20, Appendix B) Soldering Iron, Electric (Item 72, Appendix B)

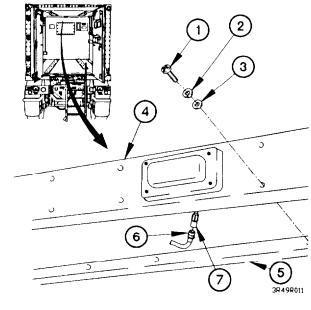
Materials/Parts

Solder, Tin Alloy (Item 70, Appendix D)
Lockwasher (4) (Item 79, Appendix G)
Dispenser, Pressure Sensitive Adhesive Tape
(Item 21, Appendix D)
Lockwasher (16) (Item 76, Appendix G)
Insulation Sleeving, Electrical (Item 31,
Appendix D)

a. Removal.

- (1) Remove 16 screws (1), lockwashers (2), washers (3), and raceway cover (4) from raceway (5). Discard lockwashers.
- (2) Disconnect connector J166 (6) from connector P166 (7).





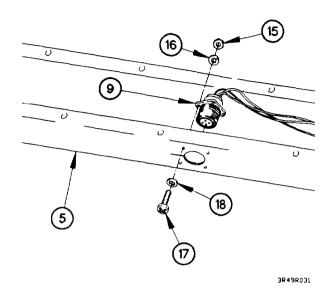
NOTE

Perform step (3) if heater kit is installed.

- (3) Disconnect connector P244 (8) from connector J244 (9).
- (4) Remove dust cap (10) from connector J244 (9).
- (5) Match mark connector J244 (9) to raceway (5).
- (6) Remove nut (11), lockwasher (12), screw (13), washer (14), and dustcap (10) from connector J244 (9). Discard lockwasher.

16-49. M1079 HEATER CONNECTOR REPLACEMENT (CONT)

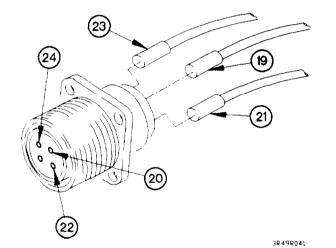
(7) Remove three nuts (15), lockwashers (16), screws (17), washers (18), and connector J244 (9) from raceway (5). Discard lockwashers.



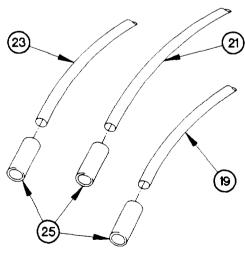
NOTE

Tag wires and connection points prior to removal.

- (8) Remove wire 400 (19) from connector J244A (20).
- (9) Remove wire 1499A (21) from connector J244C (22).
- (10) Remove wire 3085A (23) from connector J244D (24).



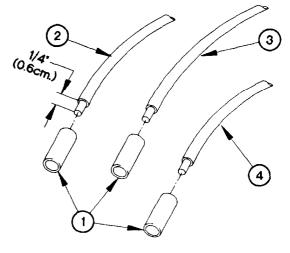
(11) Remove insulation sleeving (25) from wires 400 (19), 1499A (21), and 3085A (23).



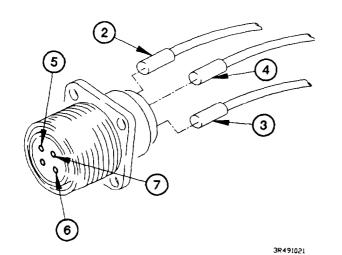
3R49R051

b. Installation.

- (1) Position insulation sleeving (1) on wires 3085A (2), 1499A (3), and 400 (4).
- (2) Strip approximately 1/4 in. (0.6 cm) of insulation from wires 3085A (2), 1499A (3), and 400 (4).

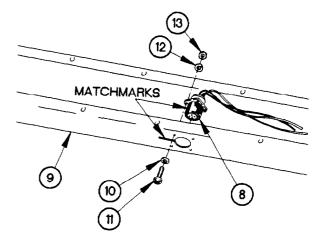


3R491011



- (3) Solder wire 3085A (2) to heater connector J244D (5).
- (4) Solder wire 1499A (3) to heater connector J244C (6).
- (5) Solder wire 400 (4) to heater connector J244A (7).

- (6) Position heater connector J244 (8) in raceway (9) with matchmarks aligned.
- (7) Install three washers (10), screws (11), lockwashers (12), and nuts (13) in heater connector J244 (8).



3R49I031

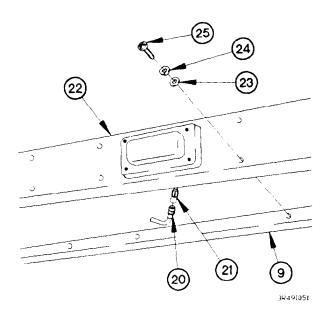
16-49. M1079 HEATER CONNECTOR REPLACEMENT (CONT)

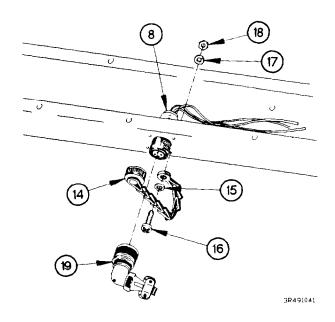
(8) Install dust cap (14) on connector J244 (8) with washer (15), screw (16), lockwasher (17), and nut (18).

NOTE

Perform step (9) if heater kit is installed.

- (9) Connect connector P244 (19) to connector J244 (8).
- (10) Install dust cap (14) on connector J244 (8).





- (11) Connect connector J166 (20) to connector P166 (21).
- (12) Install raceway cover (22) on raceway (9) with 16 washers (23), lockwashers (24), and screws (25).

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check for proper operation of van heater, if installed (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-50. M1079 INTERIOR LIGHTS SWITCH/BOX AND CONDUIT REPLACEMENT

This task covers:

a. Removalb. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Batteries disconnected (para 7-48). 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) Tool Kit, Auto Fuel And Electrical Systems Repair (Item 42, Appendix C)

Materials/Parts

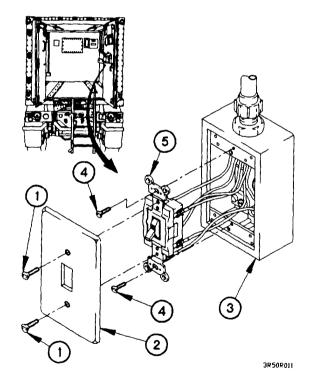
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Lockwasher (2) (Item 77, Appendix G)
Terminal, Lug (2) (van bodies serial number 191 and higher) (Item 268, Appendix G)
Strain Relief (van bodies serial number 191 and higher) (Item 263, Appendix G)

Personnel Required

(2)

a. Removal.

- (1) Remove two screws (1) and cover (2) from outlet box (3).
- (2) Remove two screws (4) and switch S32 (5) from outlet box (3).

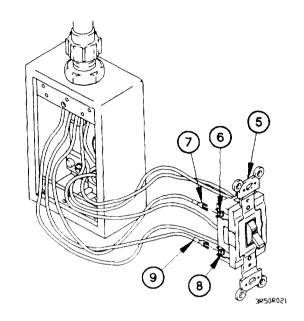


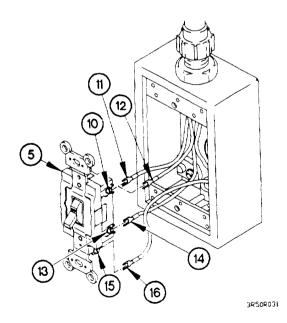
16-50. M1079 INTERIOR LIGHT SWITCH/BOX AND CONDUIT REPLACEMENT (CONT)

NOTE

Tag wires and connection points prior to disconnecting.

- (3) Loosen screw (6) on switch S32 (5).
- (4) Remove wire 706C terminal lug (7) from switch S32 (5).
- (5) Loosen screw (8) on switch S32 (5),
- (6) Remove wire 706B terminal lug (9) from switch S32 (5).



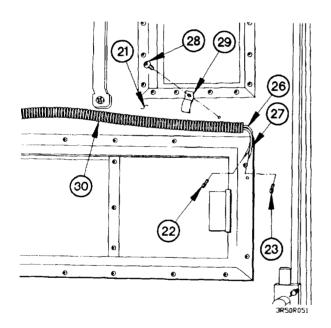


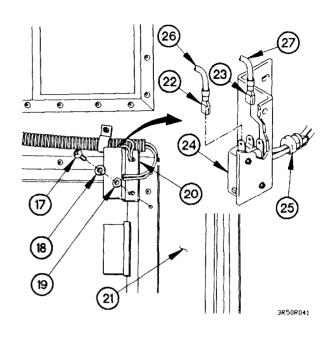
- (7) Loosen screw (10) on switch S32 (5).
- (8) Remove wire 1505C and 1508A terminal lugs (11 and 12) from switch S32 (5).
- (9) Loosen screw (13) on S32 switch (5).
- (10) Remove wire 3085E terminal lug (14) from switch S32 (5).
- (11) Loosen screw (15) on switch S32 (5).
- (12) Remove wire 3085AH terminal lug (16) from switch S32 (5).

NOTE

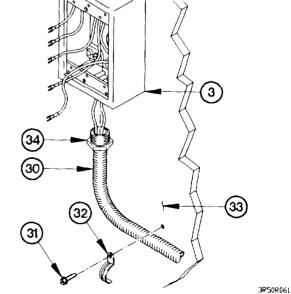
Perform steps (13) through (19) on van bodies serial number 191 and higher.

- (13) Remove two screws (17), lockwashers (18), washers (19), and bracket (20) from RH door (21). Discard lockwashers.
- (14) Disconnect wire 1509D terminal lug (22) and 1509E terminal lug (23) from blackout switch S15 (24).
- (15) Remove strain relief (25) and wires 1509D and 1509E (26 and 27) from bracket (20). Discard strain relief.





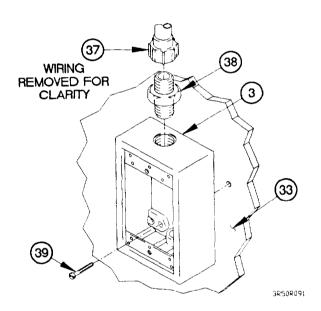
- (16) Remove wire 1509D and 1509E terminal lugs (22 and 23) from wires 1509D and 1509E (26 and 27). Discard terminal lugs.
- (17) Remove two screws (28), clamps (29), and conduit (30) from RH door (21).



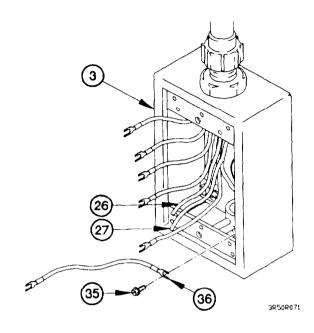
- (18) Remove screw (31), clamp (32), and conduit (30) from van body wall (33).
- (19) Remove conduit connector (34) from outlet box (3).

16-50. M1079 INTERIOR LIGHT SWITCH/BOX AND CONDUIT REPLACEMENT (CONT)

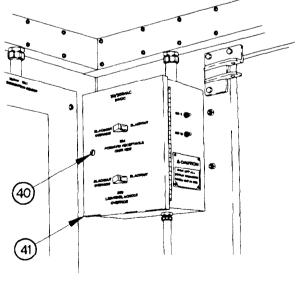
- (20) Remove wires 1509D and 1509E (26 and 27) from outlet box (3).
- (21) Remove screw (35) and wire 3085AH terminal lug (36) from outlet box (3).



- (25) Loosen screw (40) on relay box cover (41).
- (26) Open relay box cover (41).

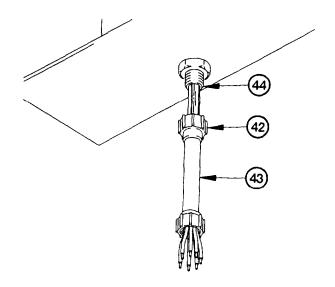


- (22) Remove conduit nut (37) from conduit connector (38).
- (23) Remove two screws (39) and outlet box (3) from van body wall (33).
- (24) Remove conduit connector (38) from outlet box (3).

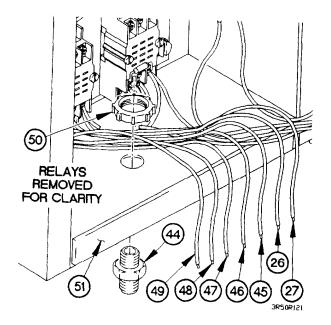


3R50R101

(27) Remove conduit nut (42) and conduit (43) from conduit connector (44).



3R50R111



(28) Remove wires 706C (45), 706B (46), 1505C (47) 1508A (48), and 3085E (49) from conduit connector (44).

NOTE

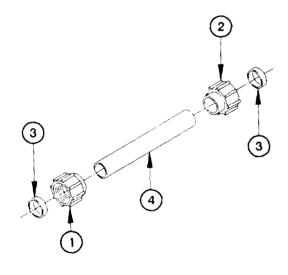
Perform step (29) on van bodies serial number 191 and higher.

- (29) Remove wires 1509D (26) and 1509E (27) from conduit connector (44).
- (30) Remove locknut (50) and conduit connector (44) from relay box (51).

16-50. M1079 INTERIOR LIGHT SWITCH/BOX AND CONDUIT REPLACEMENT (CONT)

(31) Remove two ferrules (52) and conduit nuts (37 and 42) from conduit (43).

b. Installation.



52 52

3R50R131

(1) Position conduit nuts (1 and 2) and two ferrules (3) on conduit (4).

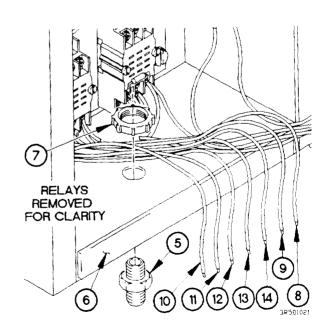
3R501011

(2) Install conduit connector (5) in relay box (6) with locknut (7).

NOTE

Perform step (3) on van bodies serial number 191 and higher.

- (3) Route wires 1509E (8), and 1509D (9) through conduit connector (5).
- (4) Route wires 3085E (10), 1508A (11), 1505C (12). 706B (13). 706C (14) through conduit connector (5).



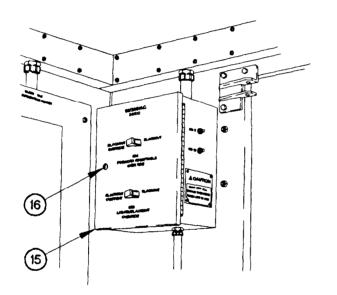
(5)

3R501031

NOTE

Perform step (5) on van bodies serial number 191 and higher.

- (5) Route wires 1509E (8), and 1509D (9) through conduit (4).
- (6) Route wires 3085E (10), 1508A (11), 1505C (12), 706B (13), and 706C (14) through conduit (4).
- (7) Install conduit nut (1) on conduit connector (5).

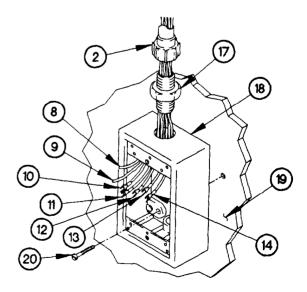


- (8) Close relay box cover (15).
- (9) Tighten screw (16) in relay box cover (15).

- (10) Install conduit connector (17) in outlet box (18).
- (11) Route wires 1509E (8), and 1509D (9) through conduit connector (17).

3R501041

- (12) Route wires 3085E (10), 1508A (11), 1505C (12) 706B (13), and 706C (14) through conduit connector (17).
- (13) Install outlet box (18) on van body wall (19) with two screws (20).
- (14) Install conduit nut (2) on conduit connector (17).



3R501051

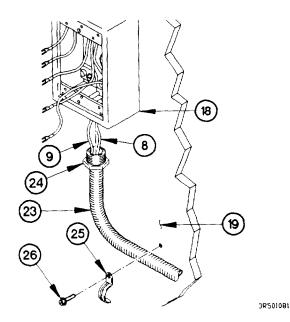
16-50. M1079 INTERIOR LIGHT SWITCH/BOX AND CONDUIT REPLACEMENT (CONT)

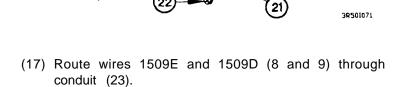
(15) Install wire 3085AH terminal lug (21) on outlet box (18) with screw (22).

NOTE

Perform steps (16) through (23) on van bodies serial number 191 and higher.

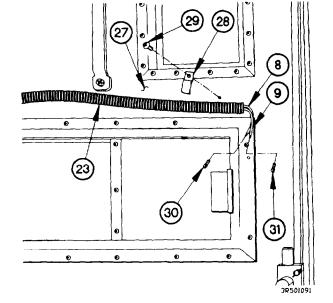
(16) Route wires 1509E and 1509D (8 and 9) through bottom of outlet box (18).





[18]

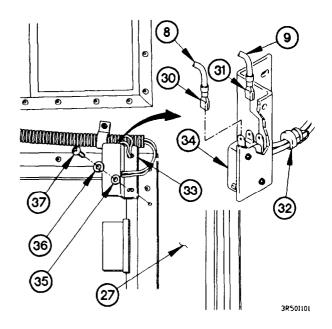
- (18) Install conduit connector (24) in outlet box (18).
- (19) Install conduit (23) on van body wall (19) with clamp (25) and screw (26).

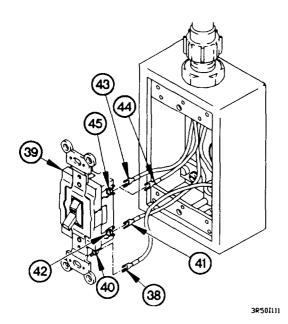


- (20) Install conduit (23) on RH door (27) with two clamps (28) and screws (29).
- (21) Install wire 1509E and 1509D terminal lugs (30 and 31) on wire 1509E and 1509D (8 and 9).



- (22) Install wires 1509E and 1509D (8 and 9) in strain relief (32).
- (23) Install strain relief (32) in bracket (33).
- (24) Connect wire 1509E terminal lug (30) and 1509D terminal lug (31) to blackout switch S15 (34).
- (25) Install bracket (33) on RH door (27) with two washers (35), lockwashers (36), and screws (37).



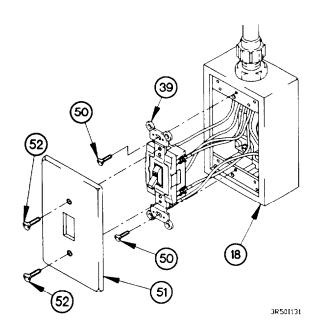


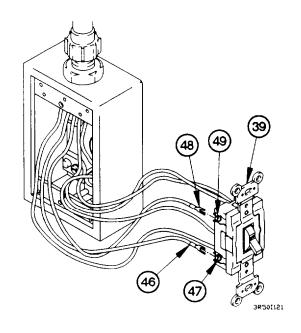
- (26) Install wire 3085AH terminal lug (38) on switch S32 (39).
- (27) Tighten screw (40) on switch S32 (39).
- (28) Install wire 3085E terminal lug (41) on switch S32 (39).
- (29) Tighten screw (42) on switch S32 (39).
- (30) Install wire 1508A and 1505C terminal lugs (43 and 44) on switch S32 (39).
- (31) Tighten screw (45) on switch S32 (39).

TM 9-2320-365-20-4

16-50. M1079 INTERIOR LIGHT SWITCH/BOX AND CONDUIT REPLACEMENT (CONT)

- (32) Install wire 706B terminal lug (46) on switch S32 (39).
- (33) Tighten screw (47) on switch S32 (39).
- (34) Install wire 706C terminal lug (48) on switch S32 (39).
- (35) Tighten screw (49) on switch S32 (39).





- (36) Install switch S32 (39) in outlet box (18) with two screws (50).
- (37) Install cover (51) on outlet box (18) with two screws (52).

c. Follow-On Maintenance.

- (1) Connect AC power (TM 9-2320-365-10).
- (2) Connect batteries (para 7-48).
- (3) Check proper operation of fluorescent lights (TM 9-2320-365-10).
- (4) Check proper operation of blackout lights (TM 9-2320-365-10).
- (5) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

This task covers:

- a. Exterior Field Telephone Binding Post Removal
- b. Exterior Field Telephone Binding Post Installation
- c. Interior Field Telephone Binding Post/Box and Conduit Removal
- d. Interior Field Telephone Binding Post/Box and Conduit Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Field telephone disconnected (TM 9-2320-365-10).

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48).

110 vac outlet/box and conduit removed (for removal of field telephone box or conduit) (para 16-53).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Tool Kit, Auto Fuel and Electrical Systems Repair (Item 42, Appendix C)

Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)

Lockwasher (28) (van body serial numbers 001 through 190) (Item 77, Appendix G)

Lockwasher (16) (van bodies serial number 191 and higher) (Item 77, Appendix G)

Lockwasher (12) (Item 81, Appendix G)

Terminal, Lug (2) (Item 266, Appendix G)

Terminal, Lug (4) (Item 269, Appendix G)

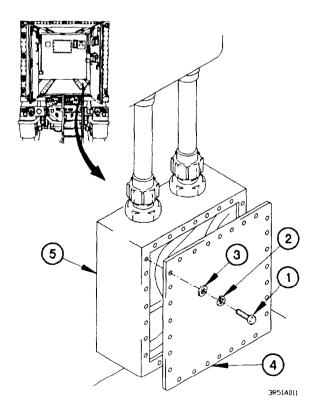
Personnel Required

(2)

a. Exterior Field Telephone Binding Post Removal.

NOTE

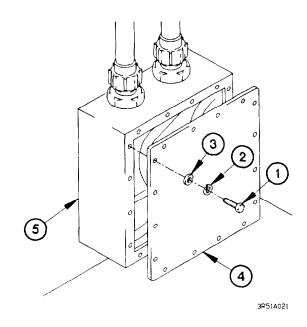
- Both exterior field telephone binding posts are removed the same way. Negative exterior field telephone binding post shown.
- Perform step (1) on van body serial numbers 001 through 190.
- (1) Remove 28 screws (1), lockwashers (2), washers (3), and cover (4) from 110/208 vac power entry panel (5). Discard lockwashers.

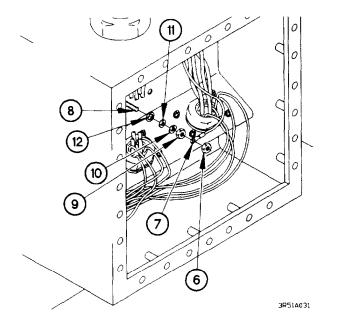


NOTE

Perform step (2) on van bodies serial number 191 and higher.

(2) Remove 16 screws (1), lockwashers (2), washers (3), and cover (4) from 110/208 vac power entry panel (5). Discard lockwashers.



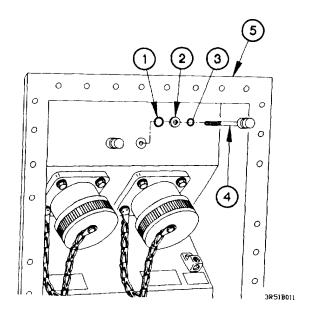


NOTE

- Steps (3) through (5) require the aid of an assistant.
- Positive field telephone binding post wire number is 424.
- (3) Remove nut (6) and wire 425 terminal lug (7) from binding post (8).
- (4) Remove nut (9), lockwasher (10), washer (11), and nylon washer (12) from binding post (8). Discard lockwasher.

(5) Remove binding post (8), preformed packing (13), nylon washer (14), and preformed packing (15) from 110/208 vac power entry panel (5).

b. Exterior Field Telephone Binding Post Installation.

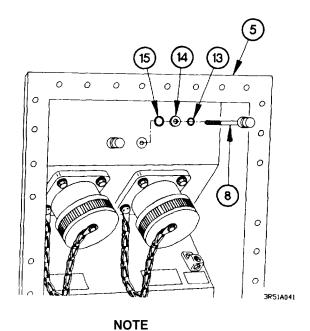


(2) Install nylon washer (6), washer (7), lockwasher (8), and nut (9) on binding post (4).

NOTE

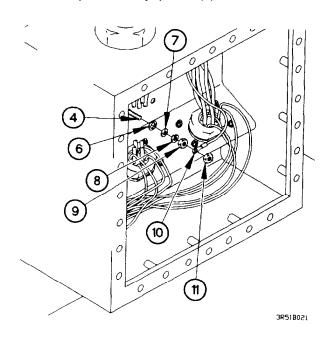
Positive field telephone binding post wire number is 424.

(3) Install wire 425 terminal lug (10) on binding post (4) with nut (11).



 Both exterior field telephone binding posts are installed the same way. Negative exterior field telephone binding post shown,

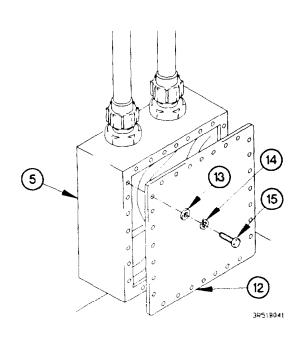
- Steps (1) through (3) require the aid of an assistant.
- (1) Install preformed packing (1), nylon washer (2), preformed packing (3), and binding post (4) in 110/208 vac power entry panel (5).



NOTE

Perform step (4) on van bodies serial number 191 and higher.

(4) Install cover (12) on 110/208 vac power entry panel (5) with 16 washers (13), lockwashers (14), and screws (15).

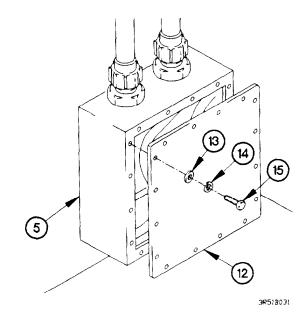


 Interior Field Telephone- Binding Post/Box and Conduit Removal.

NOTE

PHONE 1 and PHONE 2 field telephone binding posts/boxes and conduits are removed the same way. PHONE 1 positive field telephone binding post/box and conduit shown.

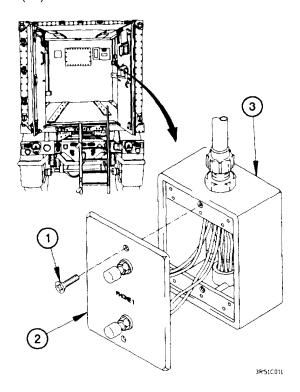
(1) Remove two screws (1) and cover (2) from outlet box (3).



NOTE

Perform step (5) on van body serial numbers 001 through 190.

(5) Install cover (12) on 110/208 vac power entry panel (5) with 28 washers (13), lockwashers (14), and screws (15).

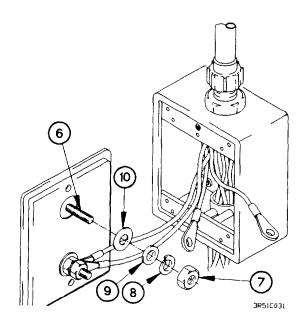


- Tag wires and connection points prior to disconnecting.
- PHONE 1 field telephone binding posts have two wires attached. PHONE 2 field telephone binding posts have one wire attached. Refer to Table 16-2. M1079 Interior Field Telephone Binding Post Wire Numbers for details.
- Perform steps (2) through (4) on positive and negative field telephone binding posts for outlet box and/or conduit removal.

Table 16-2. M1079 Interior Field Telephone Binding Post Wire Numbers

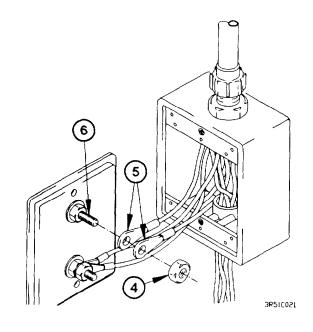
Binding Post Identification	Wire Number(s)	
PHONE 1 Positive (red)	424A, 424	
PHONE 1 Negative (black)	425A, 425	
PHONE 2 Positive (red)	424A	
PHONE 2 Negative (black)	425A	

(2) Remove nut (4) and wire terminal lug(s) (5) from binding post (6).

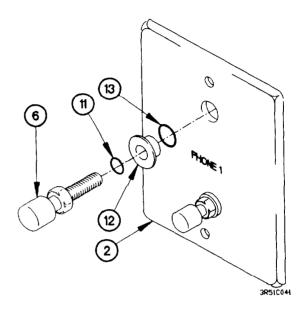


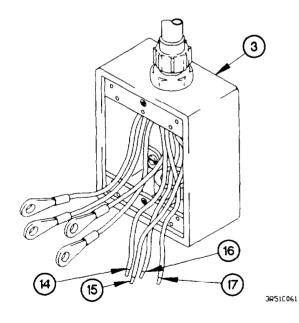
(3) Remove nut (7), lockwasher (8), washer (9), and nylon

washer (10) from binding post (6).



(4) Remove binding post (6), preformed packing (11), nylon washer (12), and preformed packing (13) from cover (2).





NOTE

Perform step (5) for PHONE 1 outlet box and/or conduit removal.

(5) Remove wires 702C (14), 702F (15), 3085J (16), and 1499D (17) from bottom of outlet box (3).

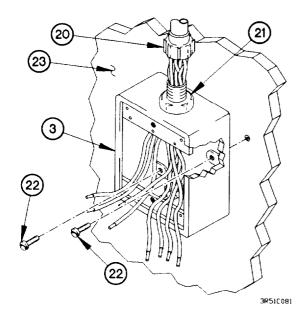
NOTE

Perform step (6) for PHONE 2 outlet box and/or conduit removal.

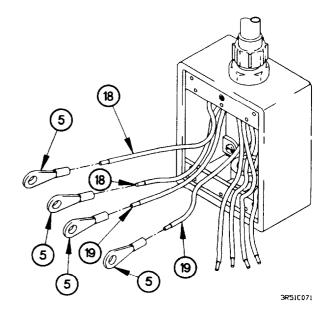
(6) Remove wires 702F (15), 3085G (16), and 1499F (17) from bottom of outlet box (3).

PHONE 1 outlet box contains four wires. PHONE 2 outlet box contains two wires. Refer to Table 16-2. M1079 Interior Field Telephone Binding Post Wire Numbers for details.

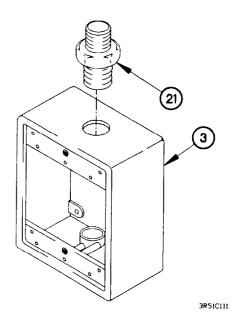
(7) Remove terminal lugs (5) from wires 424/424A (18) and 425/425A (19).



(10) Remove conduit connector (21) from outlet box (3).



- (8) Remove conduit nut (20) from conduit connector (21).
- (9) Remove two screws (22) and outlet box (3) from van body wall (23).



NOTE

Perform steps (11) through (18) for conduit removal.

(11) Remove 12 screws (24), lockwashers (25), washers (26), and raceway cover (27) from raceway (28). Discard lockwashers.

NOTE

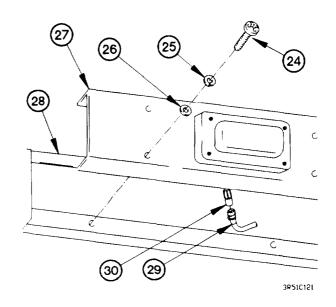
Perform step (12) for PHONE 1 outlet box and/or conduit removal.

(12) Disconnect blackout light connector J162 (29) from connector P162 (30).

NOTE

Perform step (13) for PHONE 2 outlet box and/or conduit removal.

(13) Disconnect blackout light connector J164 (29) from connector P164 (30).



18 19 14 15 31

NOTE

Perform step (14) for PHONE 1 conduit removal.

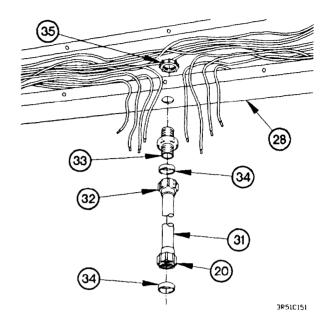
(14) Remove wires 424 (18), 425 (19), 702C (14), 702F (15), 3085J (16), and 1499D (17) from conduit (31).

NOTE

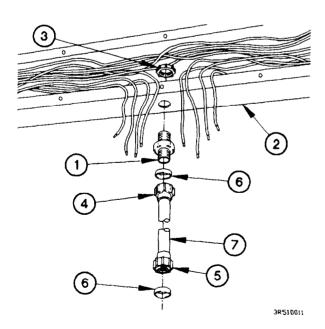
Perform step (15) for PHONE 2 conduit removal.

(15) Remove wires 424A (18), 425A (19), 702F (15), 3085G (16), and 1499F (17) from conduit (31).

- (16) Remove conduit nut (32) from conduit connector (33).
- (17) Remove two ferrules (34) and conduit nuts (20 and 32) from conduit (31).
- (18) Remove lock nut (35) and conduit connector (33) from raceway (28).



d. Interior Field Telephone Binding Post/Box and Conduit Installation.



NOTE

- PHONE 1 and PHONE 2 field telephone binding posts/boxes and conduits are removed the same way. PHONE 1 positive field telephone binding post/box and conduit shown.
- Perform steps (1) through (8) for conduit installation.
- (1) Install conduit connector (1) in raceway (2) with lock nut (3).
- (2) Position conduit nuts (4 and 5) and two ferrules (6) on conduit (7).
- (3) Install conduit nut (4) on conduit connector (1).

NOTE

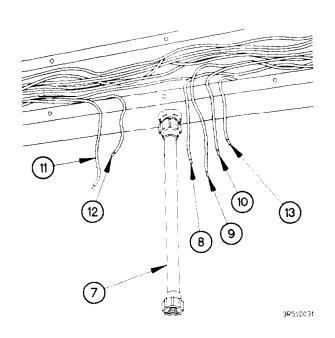
Perform step (4) for PHONE 2 outlet box installation.

(4) Route wires 1499F (8), 3085G (9), 702F (10), 425A (11), and 424A (12) through conduit (7).

NOTE

Perform step (5) for PHONE 1 outlet box installation.

(5) Route wires 1499D (8), 3085J (9), 702F (10), 702C (13), two wires 425 (11), and two wires 424 (12) through conduit (7).



NOTE

Perform step (6) for PHONE 2 outlet box and/or conduit installation.

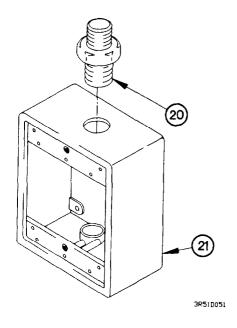
(6) Connect blackout light connector J164 (14) to connector P164 (15).

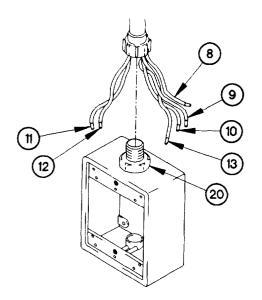
NOTE

Perform step (7) for PHONE 1 outlet box and/or conduit installation.

- (7) Connect blackout light connector J162 (14) to connector P162 (15).
- (8) Install raceway cover (16) on raceway (2) with 12 washers (17), lockwashers (18), and screws (19).

(9) Install conduit connector (20) in outlet box (21).





NOTE

Perform step (10) for PHONE 2 outlet box installation.

(10) Route wires 425A (11), 424A (12), 1499F (8), 3085G (9), and 702F (10) through conduit connector (20).

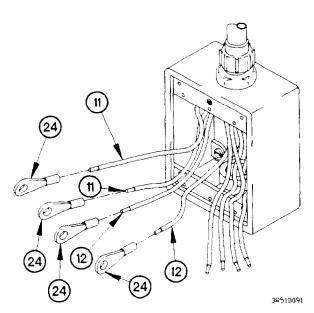
NOTE

Perform step (11) for PHONE 1 outlet box installation.

(11) Route wires 425 (11), 424 (12), 1499D (8), 3085J (9), 702F (10), and 702C (13) through conduit connector (20).

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- (12) Install outlet box (21) on van body wall (22) with two screws (23).
- (13) Install conduit nut (5) on conduit connector (20).



NOTE

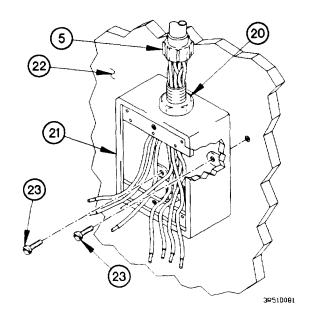
Perform step (15) on PHONE 2 outlet box.

(15) Route wires 1499F (8), 3085G (9), and 702F (10) through hole in outlet box (21).

NOTE

Perform step (16) on PHONE 1 outlet box.

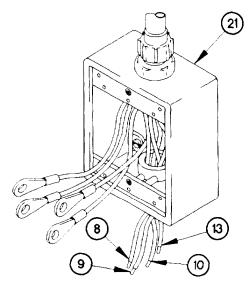
(16) Route wires 1499D (8), 3085J (9), 702F (10), and 702C (13) through hole in outlet box (21).



NOTE

PHONE 1 outlet box contains four wires. PHONE 2 outlet box contains two wires. Refer to Table 16-2. M1079 Interior Field Telephone Binding Post Wire Numbers for details.

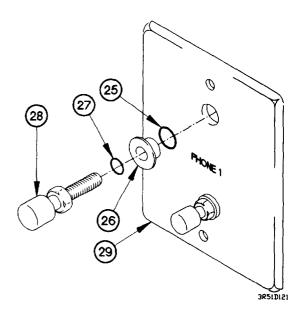
(14) Install terminal lugs (24) on wires 425/425A (11) and 424/424A (12).

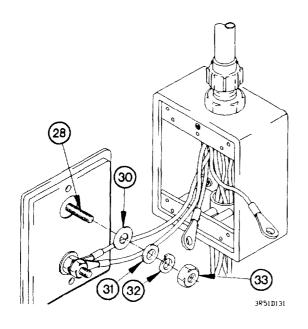


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Perform steps (17) through (19) on positive and negative field telephone binding posts after installation of outlet box.

(17) Install preformed packing (25), nylon washer (26), preformed packing (27), and binding post (28) in cover (29).



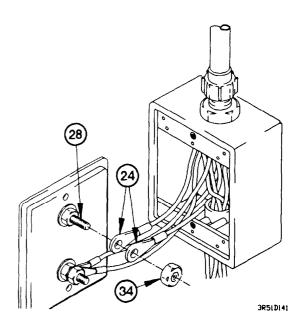


(18) Install nylon washer (30), washer (31), lockwasher (32), and nut (33) on binding post (28).

NOTE

PHONE 1 field telephone binding posts have two wires attached. PHONE 2 field telephone binding posts have one wire attached. Refer to **Table 16-2. M1079 Interior Field Telephone Binding Post Wire Numbers** for details.

(19) Install wire terminal lug(s) (24) on binding post (28) with nut (34).

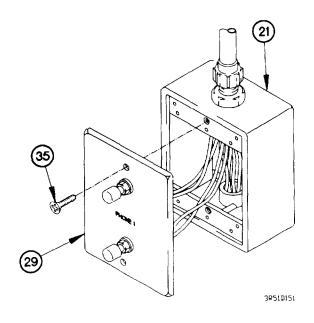


(20) Install cover (29) on outlet box (21) with two screws (35).

e. Follow-On Maintenance.

- (1) Install 110/208 vac outlet/box and conduit if removed (para 16-53).
- (2) Connect batteries (para 7-48).
- (3) Connect AC power if required (TM 9-2320-365-10).
- (4) Connect field telephone (TM 9-2320-365-10).
- (5) Check for proper operation of field telephone (TM 9-2320-365-10).

End of Task.



16-52. M1079 24 VDC BINDING POST/BOX AND CONDUIT REPLACEMENT

This task covers:

a. Removal

b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). 110 vac outlet/box and conduit removed (for removal of 24 vdc box or conduit) (para 16-53).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Tool Kit, Auto Fuel and Electrical Systems Repair (Item 42, Appendix C)

Materials/Parts

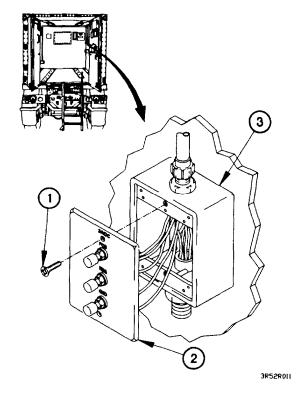
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Lockwasher (12) (Item 76, Appendix G)
Terminal, Lug (5) (Item 266, Appendix G)

a. Removal.

NOTE

Left side and right side 24 vdc POS, NEG, and GND binding posts are removed the same way. Right side (J237) 24 vdc POS binding post shown.

(1) Remove two screws (1) and cover (2) from outlet box (3).



16-52. M1079 24 VDC TERMINAL/BOX AND CONDUIT REPLACEMENT (CONT)

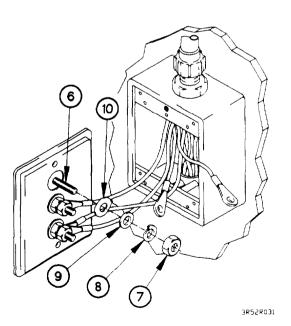
NOTE

- Tag wires and connection points prior to removing.
- Right side (J237) 24 vdc POS and GND binding posts, and left side (J236) 24 vdc NEG binding post have two wires attached. The remaining three binding posts have one wire attached. Refer to Table 16-3.
 M1079 24 VDC Binding Post Wire Numbers for details.
- Perform steps (2) through (4) on 24 VDC POS, NEG, and GND binding posts for outlet box and/or conduit removal.

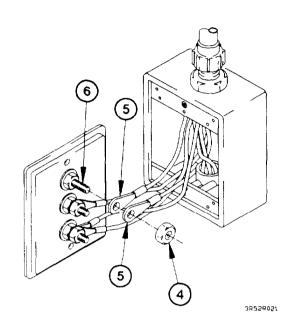
Table 16-3. M1079 24 VDC Binding Post Wire Numbers

Binding Post Identification	Wire Number(s)	
J236 24VDC POS	49A	
J236 24VDC NEG	3086, 3086	
J236 24VDC GND	3085AD	
J237 24VDC POS	49, 49A	
J237 24VDC NEG	3086	
J237 24VDC GND	3085L, 3085AD	

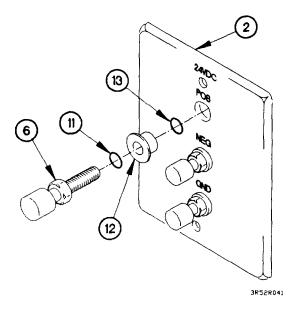
(2) Remove nut (4) and terminal lug(s) (5) from binding post (6).

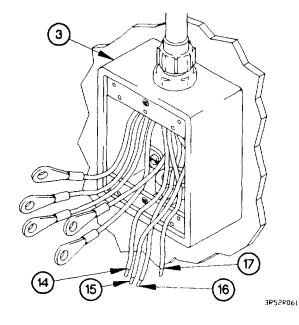


(3) Remove nut (7), lockwasher (8), washer (9), and nylon washer (10) from binding post (6).



(4) Remove binding post (6), preformed packing (11), nylon washer (12), and preformed packing (13) from cover (2).





NOTE

Perform step (5) for right side (J237) outlet box and/or conduit removal.

(5) Remove wires 1499C (14), 3085M (15), 702B (16), and 702E (17) from bottom of outlet box (3).

NOTE

Perform step (6) for left side (J236) outlet box and/or conduit removal.

(6) Remove wires 1499E (14), 3085H (15), and 702E (17) from bottom of outlet box (3).

16-52. M1079 24 VDC TERMINAL/BOX AND CONDUIT REPLACEMENT (CONT)

NOTE

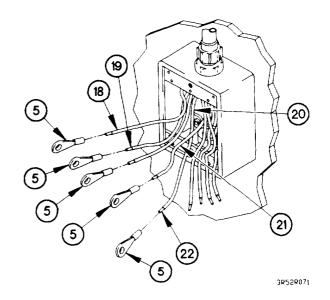
Perform step (7) for right side (J237) outlet box and/or conduit removal.

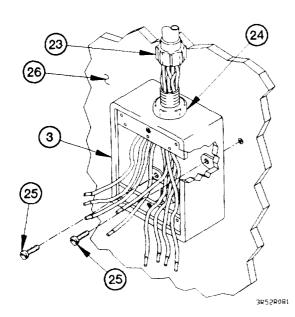
(7) Remove terminal lugs (5) from wires 49 (18), 49A (19), 3086 (20), 3085AD (21), and 3085L (22). Discard terminal lugs.

NOTE

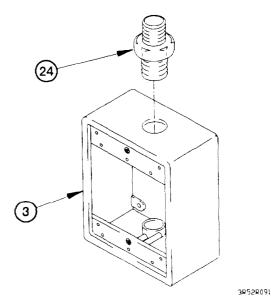
Perform step (8) for left side (J236) outlet box and/or conduit removal.

(8) Remove terminal lugs (5) from wires 49A (19), 3085AD (21), and two wires 3086 (20). Discard terminal lugs





- (9) Remove conduit nut (23) from conduit connector (24).
- (10) Remove two screws (25) and outlet box (3) from van body wall (26).



(11) Remove conduit connector (24) from outlet box (3).

Perform steps (12) through (19) for conduit removal.

(12) Remove 12 screws (27), lockwashers (28), washers (29), and raceway cover (30) from raceway (31). Discard lockwashers.

NOTE

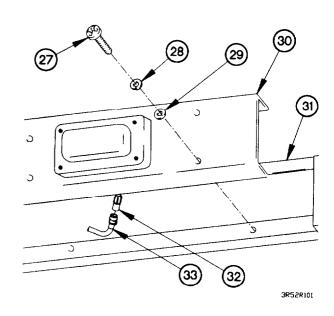
Perform step (13) for right side (J237) outlet box and/or conduit removal.

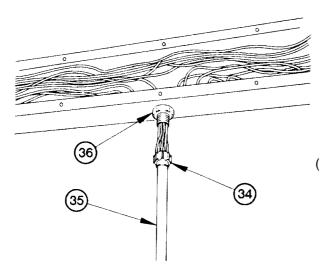
(13) Disconnect blackout light connector J162 (32) from connector P162 (33).

NOTE

Perform step (14) for left side (J236) outlet box and/or conduit removal.

(14) Disconnect blackout light connector J164 (32) from connector P164 (33).





(15) Remove conduit nut (34) and conduit (35) from conduit connector (36).

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16-52. M1079 24 VDC TERMINAL/BOX AND CONDUIT REPLACEMENT (CONT)

NOTE

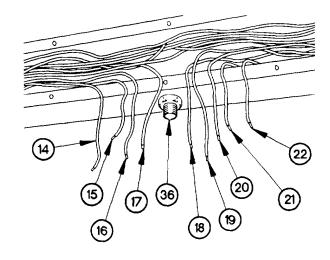
Perform step (16) for right side (J237) conduit removal.

(16) Remove wires 1499C (14), 3085M (15), 702B (16), 702E (17), 49 (18), 49A (19), 3086 (20), 3085AD (21), and 3085L (22) from conduit connector (36).

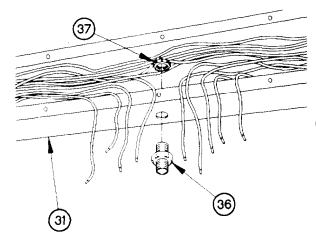
NOTE

Perform step (17) for left side (J236) conduit removal.

(17) Remove wires 1499E (14), 3085H (15), 702E (17), 49A (19), 3085AD (21), and two wires 3086 (20) from conduit connector (36).



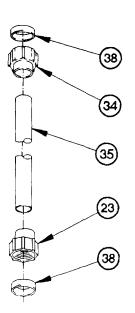
3R52R121



(18) Remove locknut (37) and conduit connector (36) from raceway (31).

3R52R131

(19) Remove two ferrules (38) and conduit nuts (23 and 34) from conduit (35).



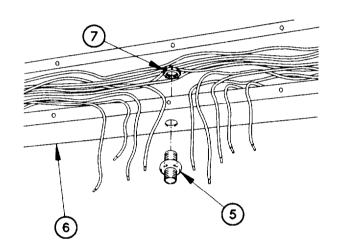
3R52R141

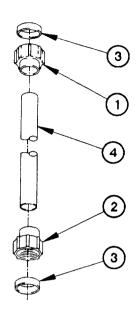
b. Installation.

NOTE

Perform steps (1) through (9) for conduit installation.

(1) Install conduit nuts (1 and 2) and two ferrules (3) on conduit (4).





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(2) Install conduit connector (5) in raceway (6) with locknut (7).

3R521021

NOTE

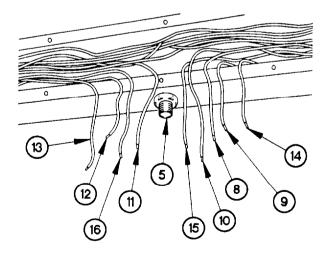
Perform step (3) for left side (J236) outlet box and conduit installation.

(3) Route two wires 3086 (8) and wires 3085AD (9), 49A (10), 702E (11), 3085H (12), and 1499E (13) through conduit connector (5).

NOTE

Perform step (4) for right side (J237) outlet box and conduit installation.

(4) Route wires 3086 (8), 3085AD (9), 49A (10), 702E (11), 3085M (12), 1499C (13), 3085L (14), 49 (15), and 702B (16) through conduit connector (5).



3R521031

16-52. M1079 24 VDC TERMINAL/BOX AND CONDUIT REPLACEMENT (CONT)

NOTE

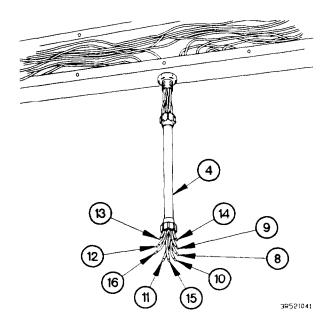
Perform step (5) for left side (J236) outlet box and conduit installation.

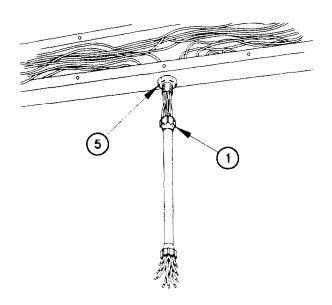
(5) Route two wires 3086 (8) and wires 3085AD (9), 49A (10), 702E (11), 3085AH (12), and 1499E (13) through conduit (4).

NOTE

Perform step (6) for right side (J237) outlet box and conduit installation.

(6) Route wires 3086 (8), 3085AD (9), 49A (10), 702E (11), 3085M (12), 1499C (13), 3085L (14), 49 (15), and 702B (16) through conduit (4).





(7) Install conduit nut (1) on conduit connector (5).

3R521051

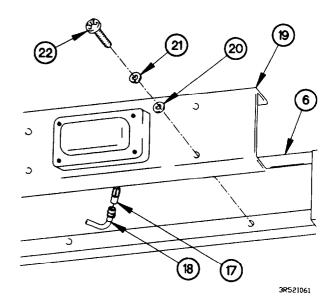
Perform step (8) for left side (J236) outlet box and/or conduit installation.

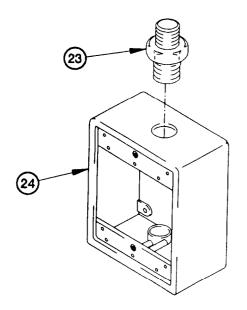
(8) Connect blackout light connector J164 (17) to connector P164 (18).

NOTE

Perform step (9) for right side (J237) outlet box and/or conduit installation,

- (9) Connect blackout light connector J162 (17) to connector P162 (18).
- (10) Install raceway cover (19) on raceway (6) with 12 washers (20), lockwashers (21), and screws (22).





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(11) Install conduit connector (23) in outlet box (24).

16-52. M1079 24 VDC TERMINAL/BOX AND CONDUIT REPLACEMENT (CONT)

NOTE

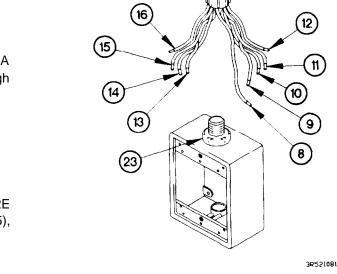
Perform step (12) for left side (J236) outlet box installation.

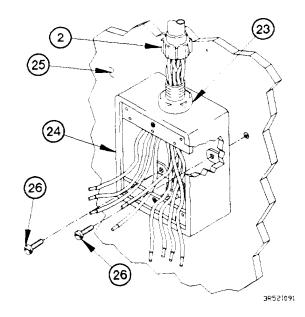
(12) Route two wires 3086 (8) and wires 3085AD (9), 49A (10), 702E (11), 3085H (12), and 1499E (13) through conduit connector (23).

NOTE

Perform step (13) for right side (J237) outlet box installation.

(13) Route wires 3086 (8), 3085AD (9), 49A (10), 702E (11), 3085M (12), 1499C (13), 3085L (14), 49 (15), and 702B (16) through conduit connector (23).





NOTE

Perform step (16) on left side (J236) outlet box.

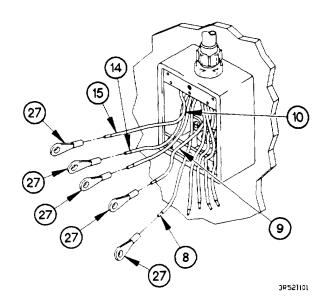
(16) Install terminal lugs (27) on two wires 3086 (8), wires 3085AD (9), and 49A (10).

NOTE

Perform step (17) on right side (J237) outlet box.

(17) Install terminal lugs (27) on wires 3086 (8), 3085AD (9), 49A (10), 3085L (14), and 49 (15).

- (14) Install outlet box (24) on van body wall (25) with two screws (26).
- (15) Install conduit nut (2) on conduit connector (23).



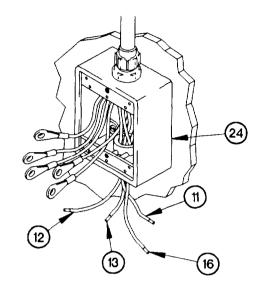
Perform step (18) on left side (J236) outlet box.

(18) Route wires 702E (11), 3085H (12), and 1499E (13) through bottom of outlet box (24).

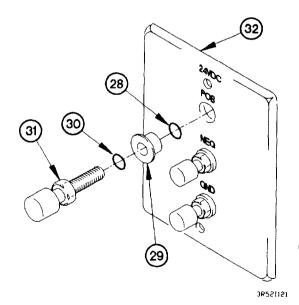
NOTE

Perform step (19) on right side (J237) outlet box.

(19) Route wires 702E (11), 3085M (12), 1499C (13), and 702B (16) through bottom of outlet box (24).



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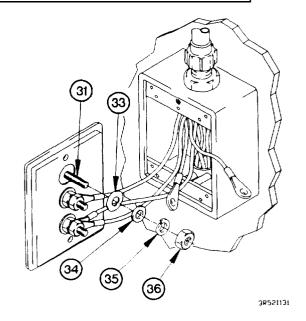


NOTE

- Left side and right side 24 vdc POS, NEG, and GND binding posts are installed the same way. Right side (J237) 24 vdc POS binding post shown.
- Perform steps (20) through (22) on 24 vdc POS, NEG, and GND binding posts after installation of outlet box.
- (20) Install preformed packing (28), nylon washer (29), preformed packing (30), and binding post (31) on cover (32).

16-52. M1079 24 VDC TERMINAL/BOX AND CONDUIT REPLACEMENT (CONT)

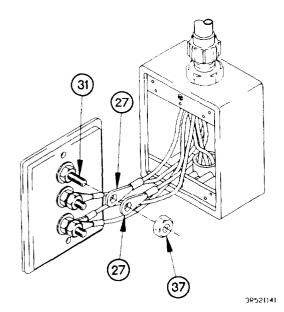
(21) Install nylon washer (33), washer (34), lockwasher (35), and nut (36) on binding post (31).



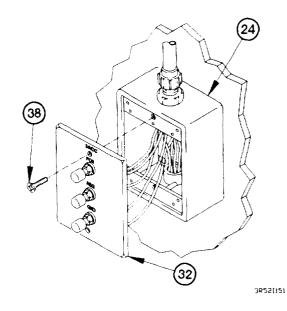
NOTE

Right side (J237) 24 vdc POS and GND binding posts, and left side (J236) 24 vdc NEG binding post have two wire attached. The remaining three binding posts have one wire attached. Refer to **Table 16-3.**M1079 24 VDC Binding Post Wire Numbers for details.

(22) Install terminal lug(s) (27) on binding post (31) with nut (37).



(23) Install cover (32) on outlet box (24) with two screws (38).



c. Follow-On Maintenance.

- (1) Install 110 vac outlet/box and conduit, if removed (para 16-53).
- (3) Connect AC power (TM 9-2320-365-10).
- (2) Connect batteries (TM 9-2320-365-10).
- (4) Check for proper operation of 24 vdc system (TM 9-2320-365-10).

End of Task.

16-53. M1079 110 VAC OUTLET/BOX AND CONDUIT REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Tool Kit, Auto Fuel and Electrical System Repair (Item 42, Appendix C)

Materials/Parts

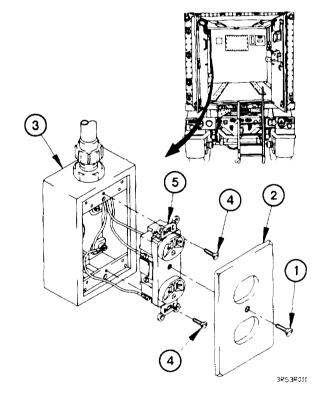
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Lockwasher (12) (Item 81, Appendix G)
Terminal, Lug (4) (Item 269, Appendix G)

a. Removal.

NOTE

All 110 vac outlets are removed the same way. Left front 110 vac outlet J233 shown.

- (1) Remove screw (1) and cover (2) from outlet box (3).
- (2) Remove two screws (4) and 110 vac outlet (5) from outlet box (3).



- Perform steps (3) through (6) on all 110 vac outlets.
- Tag wires and connection points prior to disconnecting.
- Refer to Table 16-4. M1079 110 VAC Outlet Box Location and Wire Numbers for details.
- (3) Loosen screw (6) in receptacle (5).
- (4) Remove neutral wire terminal lug (7) from receptacle (5).
- (5) Loosen green screw (8) in receptacle (5).
- (6) Remove ground wire and jumper wire terminal lugs (9 and 10) from receptacle (5).

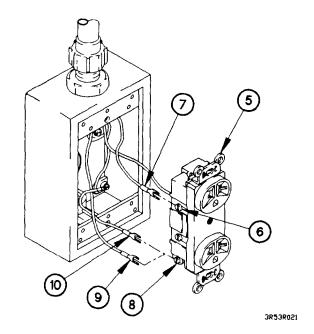


Table 16-4. M1079 110 VAC Outlet Box Location and Wire Numbers

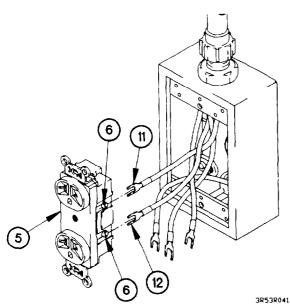
Location	Outlet Number	Outlet Wiring		
		Supply	Neutral	Ground
Left Front	J233	702D (Bottom)	1499G (Top)	3085W 3085AF (Jumper)
Left Middle	J234	702E (Bottom)	1499E (Top)	3085H 3085AE (Jumper)
Left Rear	J235	702F (Bottom	1499F (Top)	3085G 3085AG (Jumper)
Right Front	J232	702D (Top) 702A (Bottom)	1499B (Top)	3085K 3085AA (Jumper)
Right Middle	J231	702E (Top) 702B (Bottom)	1499C (Top)	3085M 3085AB (Jumper)
Right Rear	J230	702F (Top) 702C (Bottom)	1499D (Top)	3085J 3085AC (Jumper)

16-53. M1079 110 VAC OUTLET/BOX AND CONDUIT REPLACEMENT (CONT)

NOTE

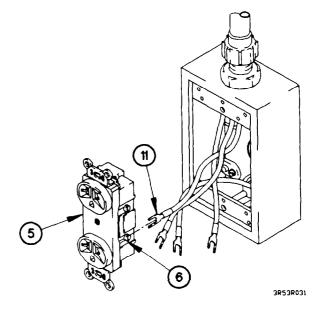
Perform steps (7) and (8) on left side 110 vac outlets, J233, J234, and J235.

- (7) Loosen screw (6) in receptacle (5).
- (8) Remove supply wire terminal lug (11) from receptacle (5).





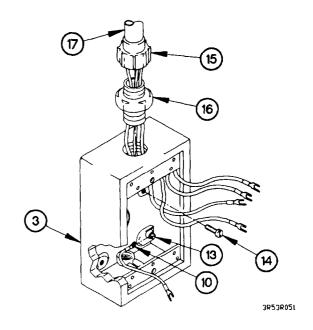
- (11) Loosen screw (13) on outlet box (3).
- (12) Remove ground wire jumper terminal lug (10) from outlet box (3).
- (13) Remove two screws (14) from outlet box (3).
- (14) Remove conduit nut (15) from conduit connector (16).
- (15) Remove outlet box (3) from conduit (17).
- (16) Remove conduit connector (16) from outlet box (3).



NOTE

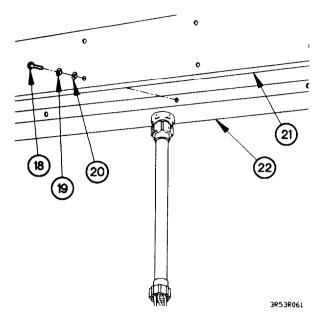
Perform steps (9) and (10) on right side 110 vac outlets J232, J231, and J230.

- (9) Loosen two screws (6) in receptacle (5).
- (10) Remove two supply wire terminal lugs (11 and 12) from receptacle (5).

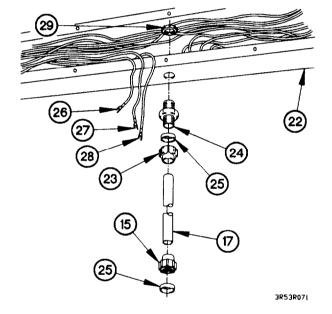


Perform steps (17) through (22) if conduit is being removed from 110 vac outlet box J233 or J232.

(17) Remove 12 screws (18), lockwashers (19), washers (20), and raceway cover (21) from raceway (22). Discard lockwashers.



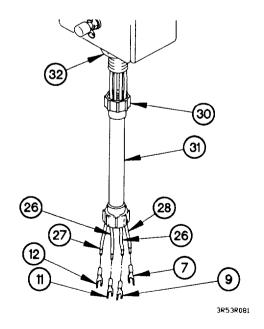
- (18) Remove conduit nut (23) from conduit connector (24).
- (19) Remove conduit (17) from conduit connector (24).
- (20) Remove two ferrules (25) and conduits nuts (15 and 23) from conduit (17).
- (21) Remove supply wire (26), neutral wire (27), and ground wire (28) from conduit connector (24).
- (22) Remove locknut (29) and conduit connector (24) from raceway (22).



NOTE

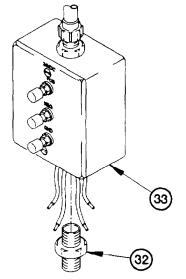
Perform steps (23) through (27) if conduit is being removed from 110 vac outlet box J234, J235, J231, or J230.

- (23) Remove terminal lugs (7, 9, 11, and/or 12) from supply wires (26) neutral wire (27) and ground wire (28).
- (24) Remove conduit nut (30) and conduit (31) from conduit connector (32).

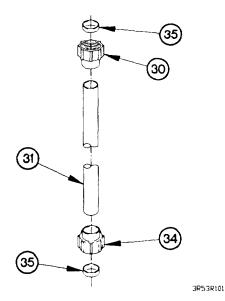


16-53. M1079 110 VAC OUTLET/BOX AND CONDUIT REPLACEMENT (CONT)

(25) Remove conduit connector (32) from outlet box (33).



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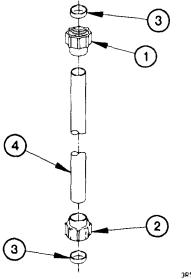
(26) Remove two ferrules (35) and conduit nuts (34 and 30) from conduit (31).

b. Installation.

NOTE

Perform steps (1) through (6) if conduit is being installed on 110 vac outlet box J234, J235, J231, or J230.

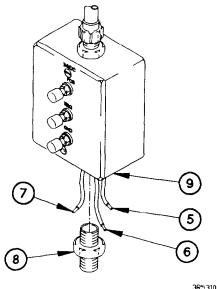
(1) Install conduit nuts (1 and 2) and two ferrules (3) on conduit (4).



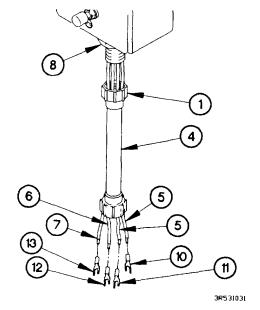
3R53I011

110 vac outlet boxes J230, J231, and J232 each contain two supply wires. Refer to Table 16-4. M1079 110 VAC Outlet Box and Wire Numbers for details.

- (2) Route supply wire(s) (5), neutral wire (6), and ground wire (7) through conduit connector (8).
- (3) Install conduit connector (8) in outlet box (9).



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- (4) Route supply wire(s) (5), neutral wire (6), and ground wire (7) through conduit (4).
- (5) Install conduit (4) on conduit connector (8) with conduit nut (1).

NOTE

Refer to Table 16-4. M1079 110 VAC Outlet Box and Wire Numbers for details.

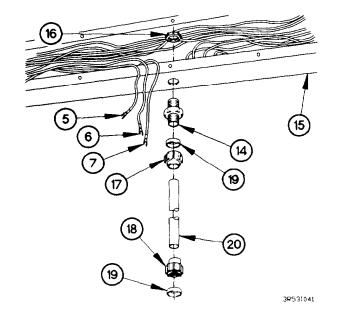
(6) Install terminal lugs (10, 11, 12, and 13) on supply wire(s) (5), neutral wire (6), and ground wire (7).

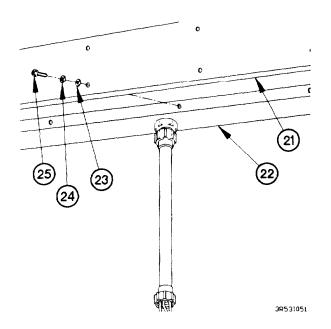
16-53. M1079 110 VAC OUTLET/BOX AND CONDUIT REPLACEMENT (CONT)

NOTE

Perform steps (7) through (12) if conduit is being installed on 110 vac outlet box J233 or J232.

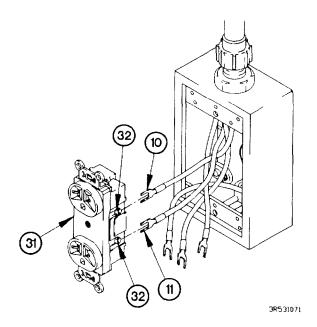
- (7) Install conduit connector (14) in raceway (15) with lock nut (16).
- (8) Route supply wires (5), neutral wire (6), and ground wire (7) through conduit connector (14).
- (9) Install conduit nuts (17 and 18) and two ferrules (19) on conduit (20).
- (10) Route supply wires (5), neutral wire (6), and ground wire (7) through conduit (20).
- (11) Install conduit (20) on conduit connector (14) with conduit nut (17).





(12) Install raceway cover (21) on raceway (22) with 12 washers (23), lockwashers (24), and screws (25).

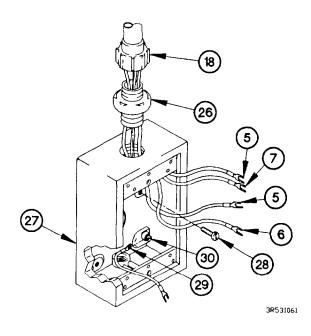
- (13) Install conduit connector (26) in 110 vac outlet box (27).
- (14) Route supply wire(s) (5), neutral wire (6), ground wire (7) through conduit connector (26).
- (15) Install conduit nut (18) on conduit connector (26).
- (16) Install two screws (28) in outlet box (27).
- (17) Install ground jumper wire terminal lug (29) on outlet box (27).
- (18) Tighten screw (30) in outlet box (27).



NOTE

Perform step (21) and (22) on left side 110 vac outlets J233, J234, and J235.

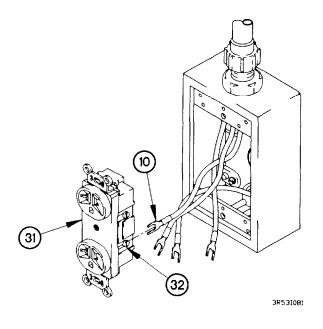
- (21) Install supply wire terminal lug (10) on receptacle (31).
- (22) Tighten screw (32) in receptacle (31).



NOTE

Perform step (19) and (20) on right side 110 vac outlets J232, J231, and J230.

- (19) Install supply wire terminal lugs (10 and 11) on receptacle (31).
- (20) Tighten two screws (32) in receptacle (31).

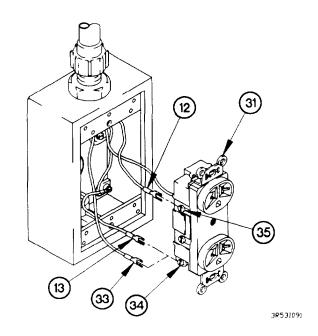


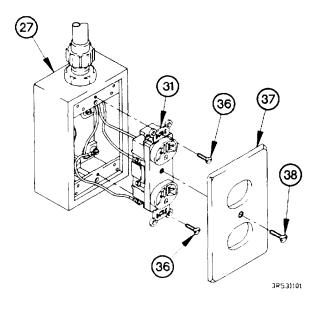
16-53. M1079 110 VAC OUTLET/BOX AND CONDUIT REPLACEMENT (CONT)

NOTE

Perform steps (23) through (28) on all 110 vac outlets.

- (23) Install ground wire and ground jumper wire terminal lugs (13 and 33) on receptacle (31).
- (24) Tighten screw (34) in receptacle (31).
- (25) Install neutral wire terminal lug (12) on receptacle (31).
- (26) Tighten screw (35) in receptacle (31).





- (27) Install receptacle (31) in outlet box (27) with two screws (36).
- (28) Install cover (37) on outlet box (27) with screw (38).

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check for proper operation of 110 vac outlet (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-54. M1079 FAN SWITCH/BOX AND CONDUIT REPLACEMENT

This task covers:

a. Removal

b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Auto Fuel and Electrical System Repair (Item 42, Appendix C)

Tools and Special Tools (Cont)

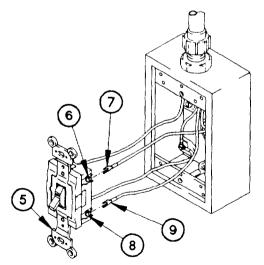
Tool Kit, Genl Mech (Item 44, Appendix C) Heater, Gun Type, Electric (Item 20, Appendix B)

Materials/Parts

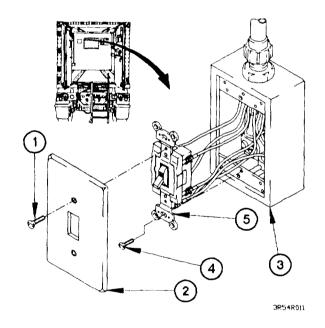
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Splice, Conductor (Item 261, Appendix G)
Lockwasher (16) (Item 76, Appendix G)

a. Removal.

- (1) Remove two screws (1) and cover (2) from outlet box (3).
- (2) Remove two screws (4) and switch S35 (5) from outlet box (3).



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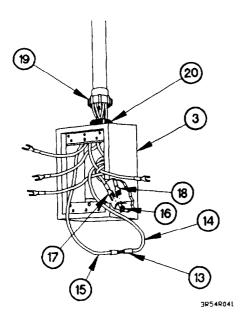
NOTE

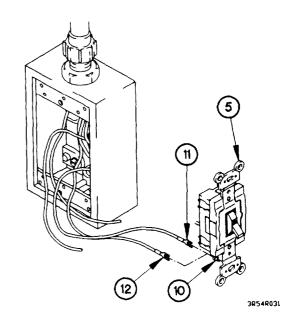
Tag wires and connection points prior to disconnecting.

- (3) Loosen screw (6) on switch S35 (5).
- (4) Remove wire 415 terminal lug (7) from switch S35 (5).
- (5) Loosen screw (8) on switch S35 (5).
- (6) Remove wire 415A terminal lug (9) from switch S35 (5).

16-54. M1079 FAN SWITCH/BOX AND CONDUIT REPLACEMENT (CONT)

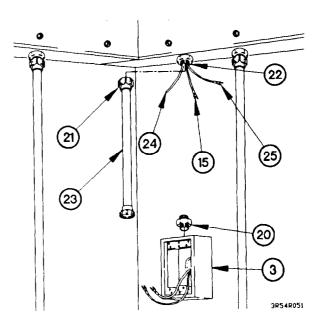
- (7) Loosen screw (10) on switch S35 (5).
- (8) Remove wire 3085X terminal lug (11) and 3085Z terminal lug (12) from switch S35 (5).

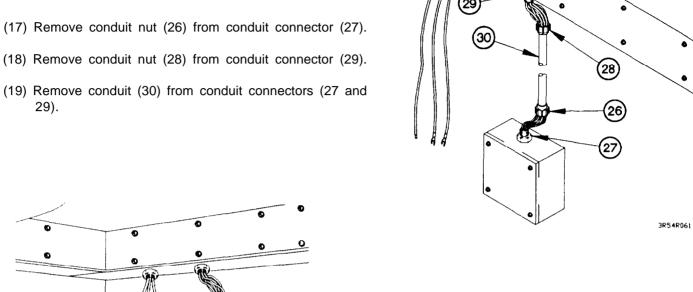




- (9) Remove conductor splice (13) from wires 1499H (14 and 15). Discard conductor splice.
- (10) Loosen screw (16) in outlet box (3).
- (11) Remove wire 3085Z terminal lug (17), and wire 3085F terminal lug (18) from screw (16).
- (12) Remove conduit nut (19) from conduit connector (20).

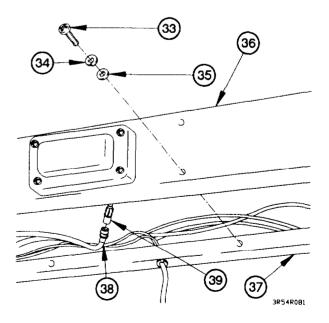
- (13) Remove conduit nut (21) from conduit connector (22).
- (14) Remove conduit (23) from conduit connectors (20 and 22).
- (15) Remove wires 3085F (24), 415 (25), and 1499H (15) from conduit (23).
- (16) Remove conduit connector (20) from outlet box (3).





- (3) (32 3R54R07L
- (20) Remove two screws (31) from outlet box (3).
- (21) Remove outlet box (3) from pipe nipple (32).

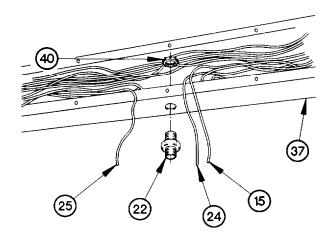
- (22) Remove 16 screws (33), lockwashers (34), washers (35), and raceway cover (36) from raceway (37). Discard lockwashers.
- (23) Disconnect emergency light connector J166 (38) from connector P166 (39).



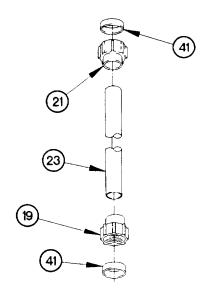
16-54. M1079 FAN SWITCH/BOX AND CONDUIT REPLACEMENT (CONT)

3R54R10L

- (24) Remove wires 3085F (24), 415 (25), and 1499H (15) from conduit connector (22).
- (25) Remove lock nut (40) and conduit connector (22) from raceway (37).



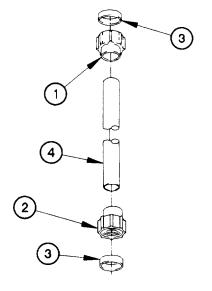
3R54R091



(26) Remove conduit nuts (19 and 21) and two ferrules (41) from conduit (23).

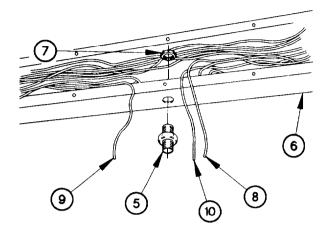
b. Installation.

(1) Install conduit nuts (1 and 2) and two ferrules (3) on conduit (4).

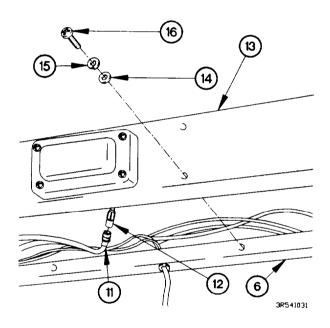


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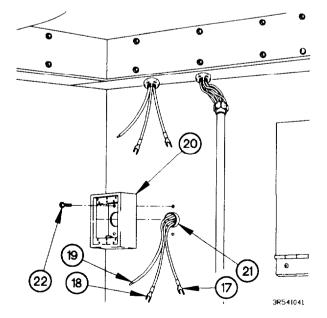
- (2) Install conduit connector (5) in raceway (6) with lock nut (7).
- (3) Route wires 1499H (8), 415 (9), and 3085F (10) through conduit connector (5).



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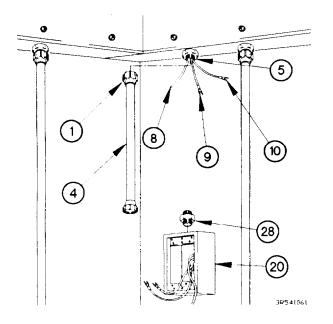
- (4) Connect emergency light connector J166 (11) to connector P166 (12).
- (5) Install raceway cover (13) on raceway (6) with 16 washers (14), lockwashers (15), and screws (16).

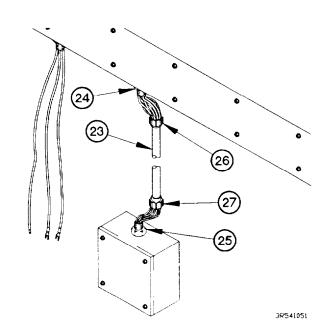


- (6) Route wires 415A (17), 3085X (18), and 1499H (19) through outlet box (20).
- (7) Install outlet box (20) on pipe nipple (21).
- (8) Install two screws (22) in outlet box (20).

16-54. M1079 FAN SWITCH/BOX AND CONDUIT REPLACEMENT (CONT)

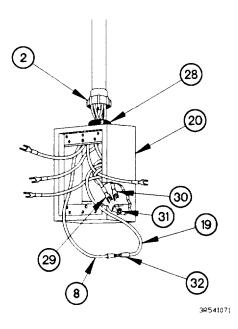
- (9) Install conduit (23) in conduit connectors (24 and 25).
- (10) Install conduit nut (26) on conduit connector (24).
- (11) Install conduit nut (27) on conduit connector (25).



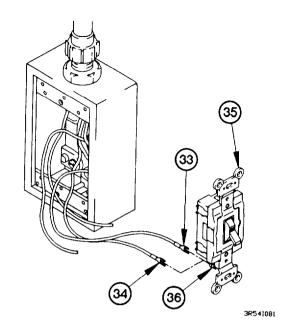


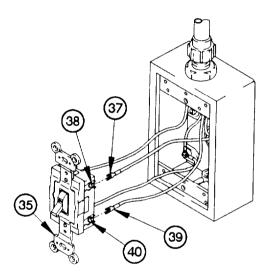
- (12) Install conduit connector (28) in outlet box (20).
- (13) Route wires 1499H (8), 415 (9), and 3085F (10) through conduit (4) and outlet box (20).
- (14) Install conduit (4) in conduit connectors (5 and 28).
- (15) Install conduit nut (1) on conduit connector (5).

- (16) Install conduit nut (2) on conduit connector (28).
- (17) Install wire 3085F terminal lug (29) and wire 3085Z terminal lug (30) on screw (31).
- (18) Tighten screw (31) in outlet box (20).
- (19) Install conductor splice (32) on wires 1499H (8 and 19).



- (20) Install wire 3085Z terminal lug (33) and wire 3085X terminal lug (34) on switch S35 (35).
- (21) Tighten screw (36) on switch S35 (35).

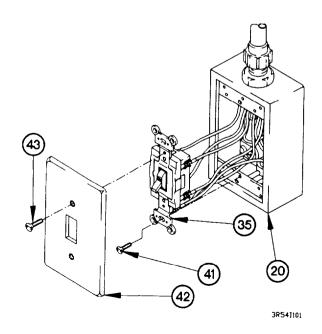




- (22) Install wire 415 terminal lug (37) on switch S35 (35).
- (23) Tighten screw (38) on switch S35 (35).
- (24) Install wire 415A terminal lug (39) on switch S35 (35).
- (25) Tighten screw (40) on switch S35 (35).

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- (26) Install switch S35 (35) in outlet box (20) with two screws (41).
- (27) Install cover (42) on outlet box (20) with two screws (43).



16-54. M1079 FAN SWITCH/BOX AND CONDUIT REPLACEMENT (CONT)

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check for proper operation of fan (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-55. M1079 DOOR AJAR SWITCH AND CONDUIT REPLACEMENT

This task covers:

- a. Removal
- b. Installation

- c. Adjustment
- d. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Batteries disconnected (para 7-48). LH door closed (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Key, Socket Head Screw (Item 35, Appendix B)

Materials/Parts

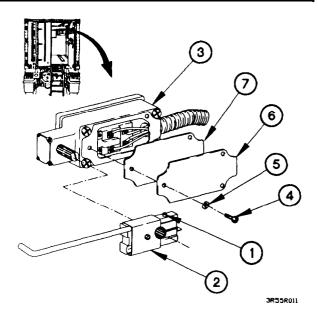
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D) Lockwasher (11) (Item 81, Appendix G)

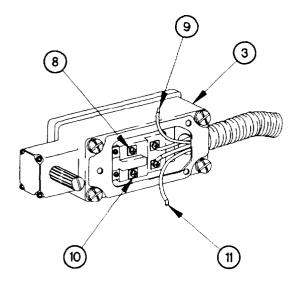
Personnel Required

(2)

a. Removal.

- (1) Loosen screw (1) on switch lever (2).
- (2) Remove switch lever (2) from switch S17 (3).
- (3) Remove three screws (4), lockwashers (5), cover (6), and gasket (7) from switch S17 (3). Discard lockwashers.





3R55R021

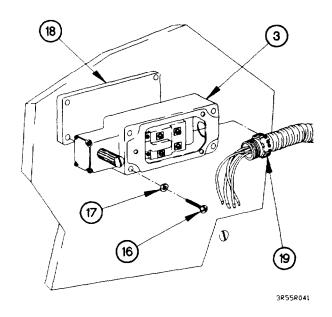
NOTE

Tag wires and connection points prior to disconnecting.

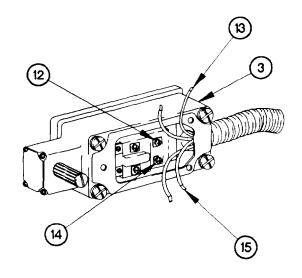
- (4) Loosen screw 3 (8) in switch S17 (3).
- (5) Remove wire 709 (9) from switch S17 (3).
- (6) Loosen screw 4 (10) in switch S17 (3).
- (7) Remove wire 1509E (11) from switch S17 (3).

16-55. M1079 DOOR AJAR SWITCH AND CONDUIT REPLACEMENT (CONT)

- (8) Loosen screw 2 (12) in switch S17 (3).
- (9) Remove wire 2006 (13) from switch S17 (3).
- (10) Loosen screw 1 (14) in switch S17 (3).
- (11) Remove wire 1506 (15) from switch S17 (3).

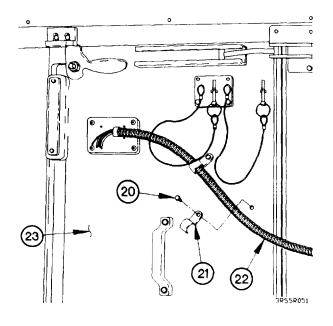


(14) Remove two screws (20), clamps (21), and flexible conduit (22) from LH door (23).

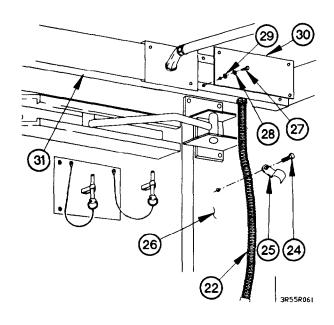


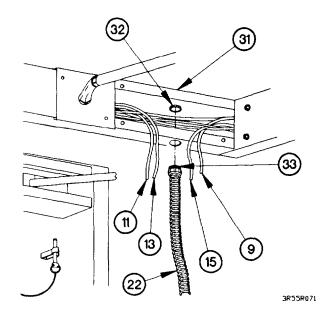
3R55R031

- (12) Remove four screws (16), lockwashers (17), and switch S17 (3) from plate (18). Discard lockwashers.
- (13) Remove conduit connector (19) from switch S17 (3).

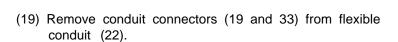


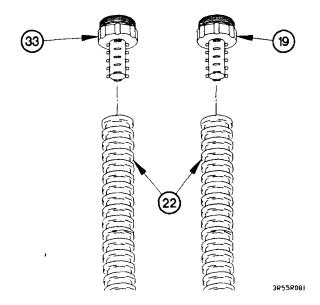
- (15) Remove screw (24), clamp (25), and flexible conduit (22) from van body wall (26).
- (16) Remove four screws (27), lockwashers (28), washers (29), and cover (30) from raceway (31). Discard lockwashers.





- (17) Remove wires 709 (9), 1509E (11), 2006 (13), and 1506 (15) from flexible conduit (22).
- (18) Remove locknut (32) and conduit connector (33) from raceway (31).

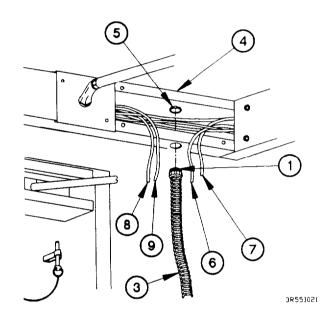




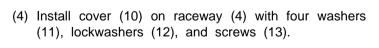
16-55. M1079 DOOR AJAR SWITCH AND CONDUIT REPLACEMENT (CONT)

b. Installation.

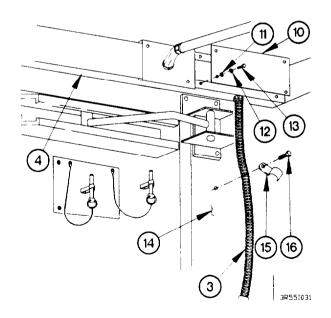
(1) Install conduit connectors (1 and 2) in flexible conduit (3).



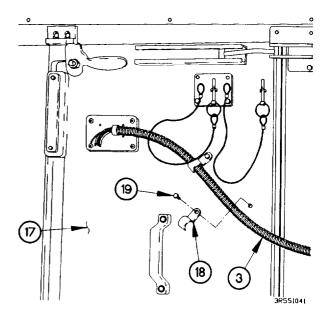
- 3
- (2) Install conduit connector (1) in raceway (4) with locknut (5).
- (3) Route wires 1506 (6), 2006 (7), 1509E (8), and 709 (9) through flexible conduit (3).



(5) Install flexible conduit (3) on van body wall (14) with clamp (15) and screw (16).

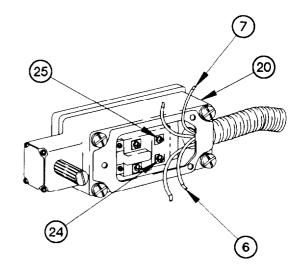


(6) Install flexible conduit (3) on LH door (17) with two clamps (18) and screws (19).



- 21 20 22 23 23 3R551051
- (7) Install switch S17 (20) on conduit connector (2).
- (8) Install switch S17 (20) on plate (21) with four lockwashers (22) and screws (23).

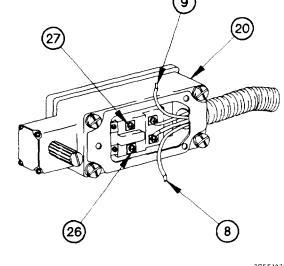
- (9) Position wire 1506 (6) on switch S17 (20).
- (10) Tighten screw 1 (24) in switch S17 (20).
- (11) Position wire 2006 (7) on switch S17 (20).
- (12) Tighten screw 2 (25) in switch S17 (20).



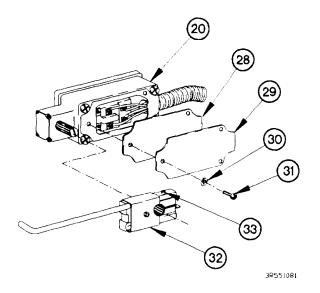
3R551061

16-55. M1079 DOOR AJAR SWITCH AND CONDUIT REPLACEMENT (CONT)

- (13) Position wire 1509E (8) on switch S17 (20).
- (14) Tighten screw 4 (26) in switch S17 (20).
- (15) Position wire 709 (9) on switch S17 (20).
- (16) Tighten screw 3 (27) in switch S17 (20).



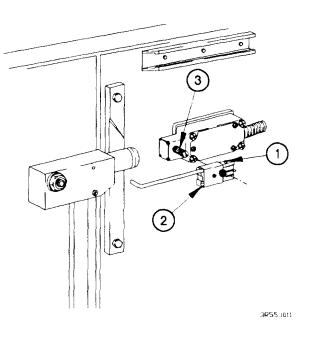
3R551071



- (17) Install gasket (28) and cover (29) on switch S17 (20) with three lockwashers (30) and screws (31).
- (18) Position switch lever (32) on switch S17 (20).
- (19) Tighten screw (33) on switch lever (32).

c. Adjustment.

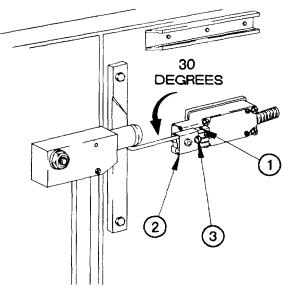
- (1) Loosen screw (1) on switch lever (2).
- (2) Remove switch lever (2) from switch actuator (3)
- (3) Close RH door (TM 9-2320-365-10).



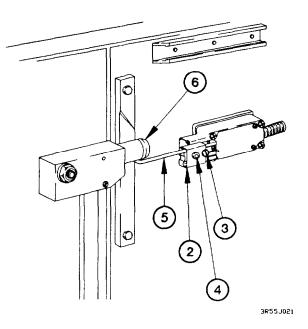
CAUTION

Use care while performing adjustment. Failure to comply may result in damage to equipment.

- (4) Position switch lever (2) on switch actuator (3).
- (5) Loosen screw (4) on switch lever (2).
- (6) Position switch lever rod (5) under RH door latch arm (6).
- (7) Tighten screw (4) in switch lever (2).



3R55J031



NOTE

- Step (8) requires switch actuator to be rotated approximately 30 degrees CCW while switch lever rod remains in contact with right hand door latch arm.
- Step (8) requires the aid of an assistant.
- (8) Rotate switch actuator (3) approximately 30 degrees ccw.
- (9) Tighten screw (1) on switch lever (2).

NOTE

A click will be heard as switch opens and closes.

- (10) Unlatch and latch RH door several times (TM 9-2320-365-10).
- (11) Repeat steps (8) through (10) as required.

d. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Check for proper operation of van door open light and blackout lights system (TM 9-2320-365-10).

End of Task.

16-56. M1079 BLACKOUT OVERRIDE SWITCH REPLACEMENT

This task covers:

a. Removalb. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

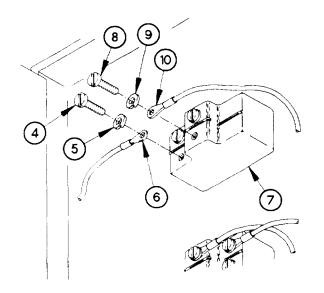
AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

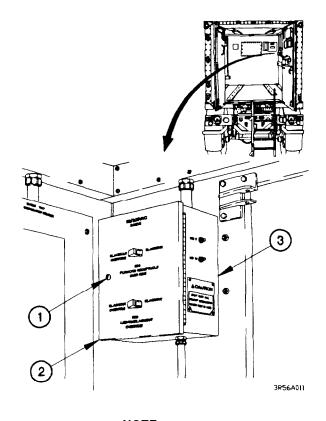
Tool Kit, Genl Mech (Item 44, Appendix C)

a. Removal.

- (1) Loosen screw (1) on cover (2).
- (2) Open cover (2) on relay box (3).



3R56A021



NOTE

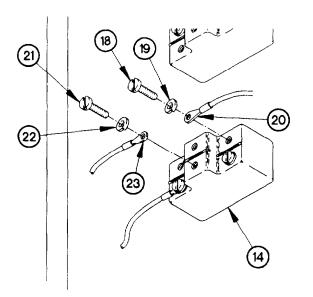
Perform steps (3) and (4) on switch S34.

- (3) Remove screw (4), lockwasher (5), and wire 702AA terminal lug (6) from bottom left terminal of switch S34 (7).
- (4) Remove screw (8), lockwasher (9), and wire 701AA terminal lug (10) from bottom right terminal of switch S34 (7).

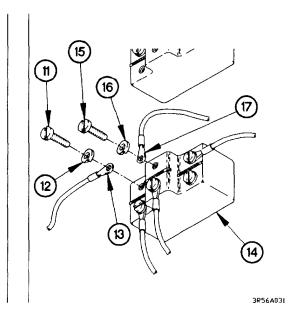
NOTE

Perform steps (5) through (9) on switch S33.

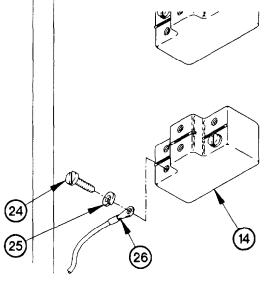
- (5) Remove screw (11), lockwasher (12), and wire 38 terminal lug (13) from top left terminal of switch S33 (14).
- (6) Remove screw (15), lockwasher (16), and wire 1508 terminal lug (17) from top center terminal of switch S33 (14).



3R56A041



- (7) Remove screw (18), lockwasher (19), and wire 1509 terminal lug (20) from top right terminal of switch S33 (14).
- (8) Remove screw (21), lockwasher (22), and wire 707A terminal lug (23) from bottom center terminal of switch S33 (14).



3R56A051

(9) Remove screw (24), lockwasher (25), and wire 1511 terminal lug (26) from bottom left terminal of switch S33 (14).

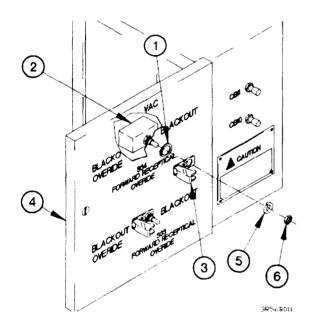
16-56. M1079 BLACKOUT OVERRIDE SWITCH REPLACEMENT (CONT)

NOTE

Switches S33 and S34 are removed the same way. Switch S34 shown.

(10) Remove nut (27), lockwasher (28), switch guard (29), switch S34 (7), and key washer (30) from cover (2).

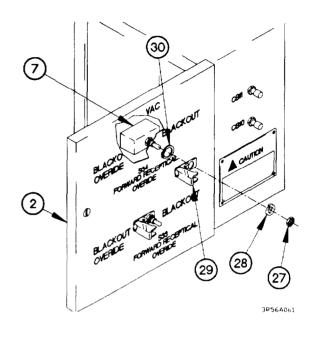
b. Installation.



NOTE

Perform steps (2) through (6) on switch S33.

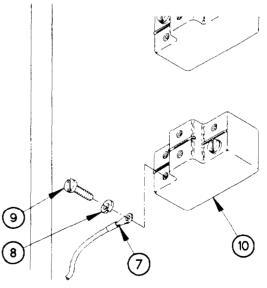
(2) Install wire 1511 terminal lug (7), lockwasher (8), and screw (9) on bottom left terminal of switch S33 (10).



NOTE

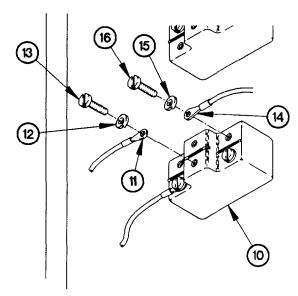
Switches S33 and S34 are installed the same way. Switch S34 shown.

(1) Install key washer (1), switch S34 (2), and switch guard (3) in cover (4) with lockwasher (5), and nut (6).

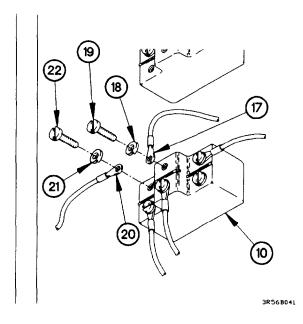


3R56B02:

- (3) Install wire 707A terminal lug (11), lockwasher (12), and screw (13) on bottom center terminal of switch S33 (10).
- (4) Install wire 1509 terminal lug (14), lockwasher (15), and screw (16) on top right terminal of switch S33 (10).



3R56B031



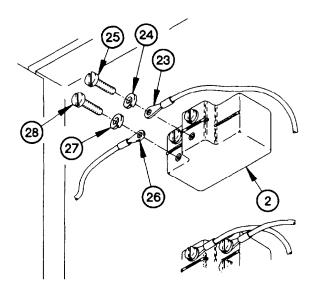
(5) Install wire 1508 terminal lug (17), lockwasher (18), and screw (19) on top center terminal on switch S33 (10).

(6) Install wire 38 terminal lug (20), lockwasher (21), and screw (22) on top left terminal on switch S33 (10).



Perform steps (7) and (8) on switch S34.

- (7) Install wire 701AA terminal lug (23) on bottom right terminal of switch S34 (2) with lockwasher (24) and screw (25).
- (8) Install wire 702AA (26) on bottom left terminal of switch S34 (2) with lockwasher (27) and screw (28).



3R56B051

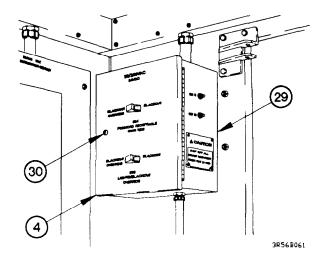
16-56. M1079 BLACKOUT OVERRIDE SWITCH REPLACEMENT (CONT)

- (9) Close cover (4) on relay box (29).
- (10) Tighten screw (30) in cover (4).

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check for proper operation of blackout lights system (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).





16-57. M1079 BLACKOUT SWITCH REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48).

Tools and Special Tools

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

Materials/Parts

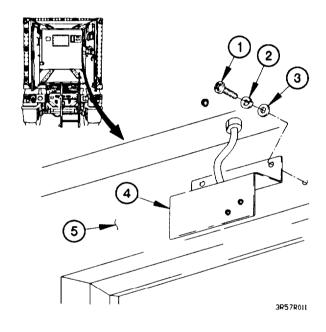
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Lockwasher (2) (Item 77, Appendix G)
Dispenser, Pressure Sensitive Adhesive
Lockwasher (2) (Item 79, Appendix G)
Strain Relief (Item 263, Appendix G)

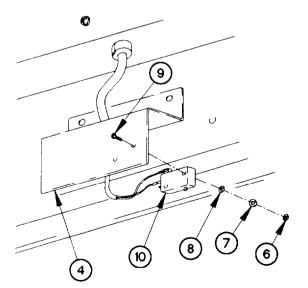
a. Removal.

NOTE

All blackout switches are removed the same way. Right rear blackout switch S11 shown.

(1) Remove two screws (1), lockwashers (2), washers (3), and bracket (4) from van body wall (5). Discard lockwashers.





(2) Remove two nuts (6), lockwashers (7), washers (8), screws (9), and blackout switch (10) from bracket (4).

3R57R021

16-57. M1079 BLACKOUT SWITCH REPLACEMENT (CONT)

NOTE

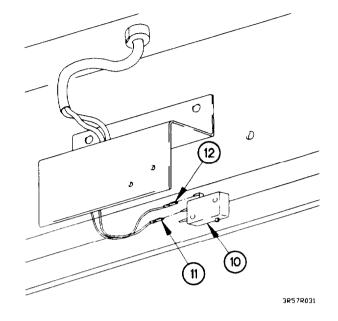
Refer to Table 16-5. M1079 Blackout Switch Location and Wire Numbers for details.

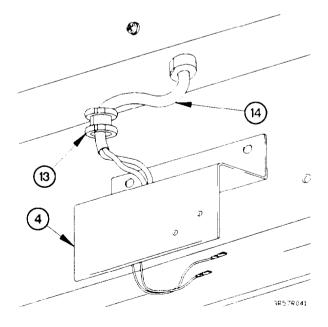
Tag wires and connection points prior to disconnecting.

(3) Disconnect supply wire terminal lug (11) and common wire terminal lug (12) from blackout switch (10).

Table 16-5. M1079 Blackout Switch Location and Wire Numbers

Blackout Switch		Wire Numbers		
Number	Location	Common	Supply	
S11	Right Rear	1509A	1509	
S12	Right Front	1509B	1509A	
\$13	Left Front	1509C	1509B	
S14	Left Middle	1509D	1509C	
S15	Left Rear	1509E	1509D	
S15	RH Door	1509E	1509D	





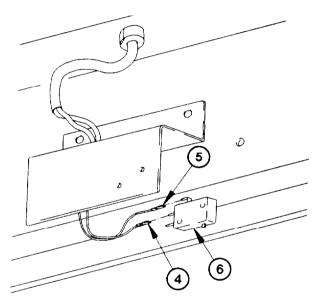
(4) Remove strain relief (13) and cable (14) from bracket (4). Discard strain relief.

b. Installation.

NOTE

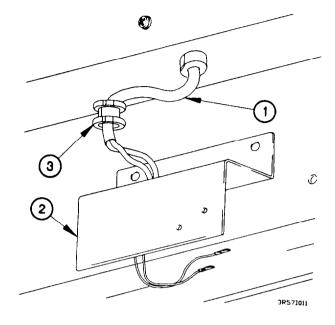
All blackout switches are installed the same way. Right rear blackout switch S11 shown.

(1) Install cable (1) in bracket (2) with strain relief (3).



3R57R031

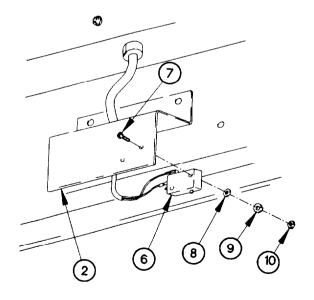
(3) Install blackout switch (6) on bracket (2) with two screws (7), washers (8), lockwashers (9), and nuts (10).



NOTE

Refer to Table 16-5. M1079 Blackout Switch Location and Wire Numbers for details.

(2) Connect common wire terminal lug (4) and supply wire terminal lug (5) to blackout switch (6).



3R571031

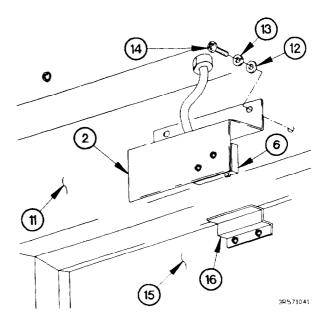
16-57. M1079 BLACKOUT SWITCH REPLACEMENT (CONT)

- (4) Position bracket (2) on van body wall (11) with two washers (12), lockwashers (13), and screws (14).
- (5) Close blackout shield (15).
- (6) Press down on bracket (2) until blackout switch (6) contacts bracket (16).
- (7) Tighten two screws (14).

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check blackout lights for proper operation (TM 9-2320-365-10).

End of Task.



16-58. M1079 BLACKOUT/EMERGENCY LIGHT REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Tool Kit, Blind Rivet (Item 43, Appendix C) Goggles, Industrial (Item 15, Appendix C)

Tools and Special Tools (Cont)

Drill, Portable, Electric (Item 7, Appendix C)
Drill Set, Twist (Item 6, Appendix C)

Materials/Parts

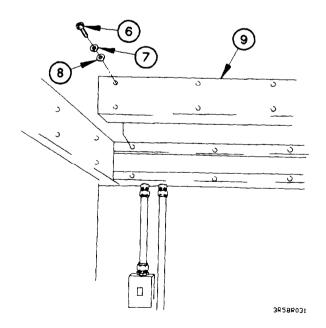
Rivet, Blind (4) (Item 224, Appendix G) Lockwasher (12) (Item 76, Appendix G) Lockwasher (4) (for front emergency light) (Item 76, Appendix G)

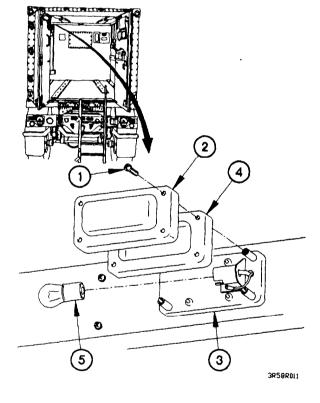
a. Removal.

NOTE

All blackout/emergency lights are removed the same way. Left side emergency light DS79 shown.

- (1) Remove four screws (1) and lens (2) from base (3).
- (2) Remove gasket (4) from base (3).
- (3) Remove lamp (5) from base (3).





NOTE

Perform step (4) on front raceway cover.

(4) Remove two screws (6), lockwashers (7), and washers (8) from each end of raceway (9). Discard lockwashers.

16-58. M1079 BLACKOUT/EMERGENCY LIGHT REPLACEMENT (CONT)

(5) Remove 12 screws (10), lockwashers (11), washers (12) and raceway cover (9) from raceway (13). Discard lockwashers.

NOTE

Refer to Table 16-6. M1079 Blackout/ Emergency Light Locations and Connectors for details.

(6) Disconnect blackout/emergency light connector (14) from connector (15).

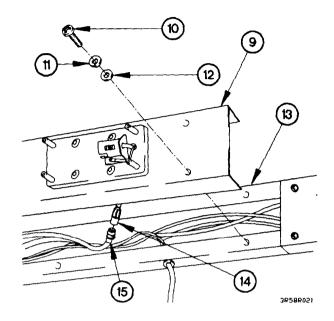
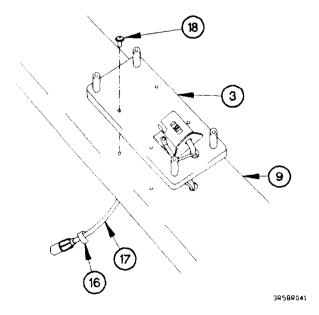


Table 16-6. M1079 Blackout/Emergency Light Locations and Connectors

LIGHT NO.	LOCATION	FUNCTION	JACK CONNECTOR NO.	PLUG CONNECTOR NO.
DS75	Right Side	Blackout	J162	P162
DS76	Left Side	Blackout	J164	P164
DS78	Right Side	Emergency	J163	P163
D\$79	Left Side	Emergency	J165	P165
DS96	Front	Emergency	J166	P166
DS97	Rear	Emergency	J167	P167



(7) Remove band marker (16) from wire (17).

WARNING

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

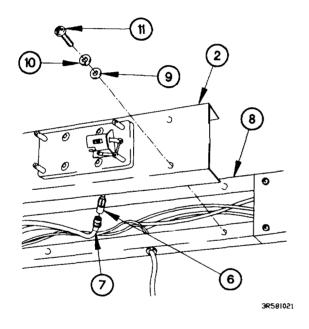
(8) Remove four rivets (18) and base (3) from raceway cover (9).

b. Installation.

NOTE

All blackout/emergency lights are installed the same way. Left side emergency light DS79 shown.

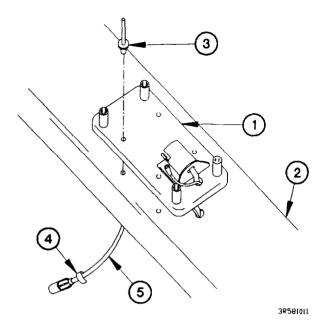
- (1) Install base (1) on raceway cover (2) with four rivets (3).
- (2) Install band marker (4) on wire (5).



NOTE

Perform step (5) on front raceway cover.

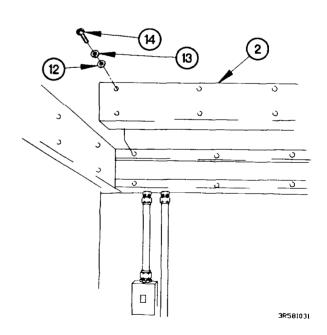
(5) Install two washers (12), lockwashers (13), and screws (14) in each end of raceway cover (2).



NOTE

Refer to Table 16-6. M1079 Blackout/ Emergency Light Locations and Connectors for details.

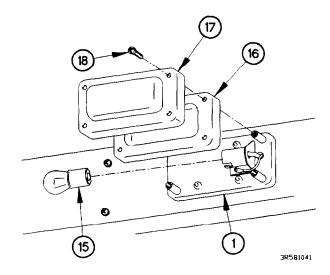
- (3) Connect blackout/emergency light connector (6) to connector (7).
- (4) Install raceway cover (2) on raceway (8) with 12 washers (9), lockwashers (10) and screws (11).



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16-58. M1079 BLACKOUT/EMERGENCY LIGHT REPLACEMENT (CONT)

- (6) Install lamp (15) in base (1).
- (7) Install gasket (16) on base (1).
- (8) Install lens (17) on base (1) with four screws (18).



c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Close LH and RH doors (TM 9-2320-365-10).
- (4) Check for proper operation of blackout/emergency lights (TM 9-2320-365-10).

End of Task.

16-59. M1079 LIGHTING FIXTURE AND CONDUIT REPLACEMENT

This task covers:

- a. Front Lighting Fixture Removal
- b. Front Lighting Fixture Installation
- c. Rear Lighting Fixture Removal

- d. Rear Lighting Fixture Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Materials/Parts

Ties, Cable, Plastic (Item 76, Appendix D)

Personnel Required

(2)

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Goggles, Industrial (Item 15, Appendix C)

WARNING

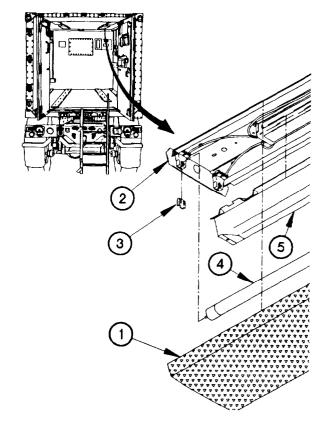
Wear appropriate eye protection when handling fluorescent lamps. Failure to comply may result in injury to personnel.

a. Front Lighting Fixture Removal.

NOTE

Left front lighting fixture DS82 and right front lighting fixture DS81 are removed the same way. Right front lighting fixture DS81 shown.

- (1) Remove diffuser (1) from lighting fixture DS81 (2).
- (2) Remove tube lock holder (3) from each end of two fluorescent lamps (4).
- (3) Remove two fluorescent lamps (4) from lighting fixture DS81 (2).
- (4) Remove ballast cover (5) from lighting fixture DS81 (2).



16-59. M1079 LIGHTING FIXTURE AND CONDUIT REPLACEMENT (CONT)

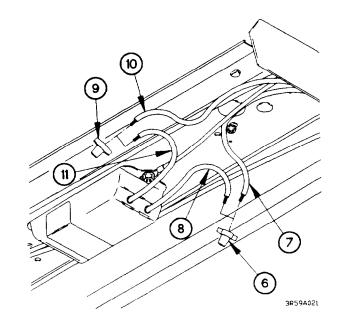
NOTE

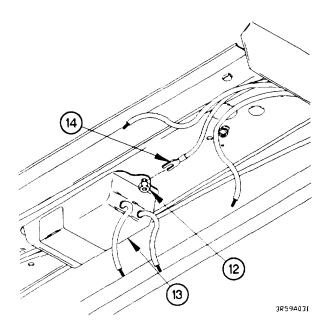
- Perform step (5) on right front lighting fixture DS81.
- Tag wires and connection points prior to disconnecting.
- Remove plastic cable ties as required.
- (5) Remove wire nut (6) from wire 1499J (7) and yellow/green wire (8).

NOTE

Perform step (6) on left front lighting fixture DS82.

- (6) Remove wire nut (6) from wire 1499K (7) and yellow/green wire (8).
- (7) Remove wire nut (9) from wire 706B (10) and black wire (11).





(8) Loosen nut (12) on filter unit (13).

NOTE

Perform step (9) on right front lighting fixture DS81.

(9) Remove wire 3085AK terminal lug (14) from filter unit (13).

NOTE

Perform step (10) on left front lighting fixture DS82.

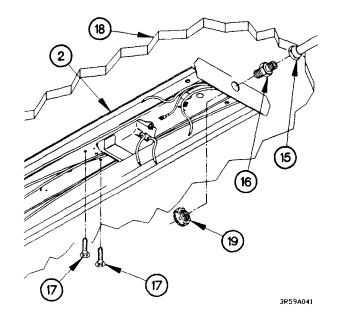
(10) Remove wire 3085AJ terminal lug (14) from filter unit (13).

(11) Remove conduit nut (15) from conduit connector (16).

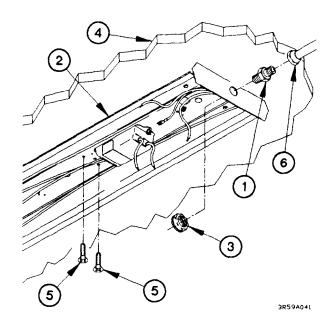
NOTE

Step (12) requires the aid of an assistant.

- (12) Remove four screws (17) and lighting fixture DS81 (2) from van body ceiling (18).
- (13) Remove locknut (19) and conduit connector (16) from lighting fixture DS81 (2).



b. Front Lighting Fixture Installation.



NOTE

Left front lighting fixture DS82 and right front lighting fixture DS81 are installed the same way. Right front lighting fixture DS81 shown.

(1) Install conduit connector (1) in lighting fixture DS81 (2) with locknut (3).

NOTE

Step (2) requires the aid of an assistant.

- (2) Install lighting fixture DS81 (2) on van body ceiling (4) with four screws (5).
- (3) Install conduit nut (6) on conduit connector (1).

16-59. M1079 LIGHTING FIXTURE AND CONDUIT REPLACEMENT (CONT)

NOTE

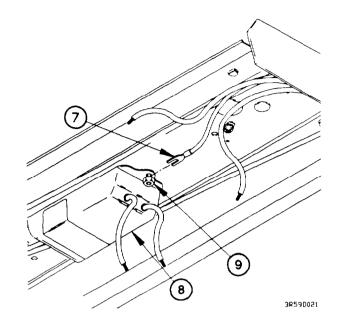
Perform step (4) on right front lighting fixture DS81.

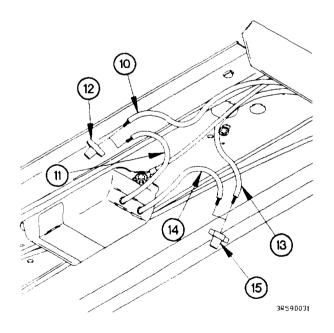
(4) Install wire 3085AK terminal lug (7) on filter unit (8).

NOTE

Perform step (5) on left front lighting fixture DS82.

- (5) Install wire 3085AJ terminal lug (7) on filter unit (8).
- (6) Tighten nut (9) on filter unit (8).





(7) Connect wire 706B (10) and black wire (11) with wire nut (12).

NOTE

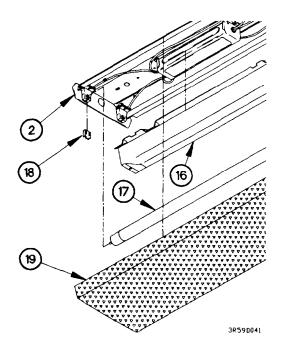
Perform step (8) on right front lighting fixture DS81.

(8) Connect wire 1499J (13) and yellow/green wire (14) with wire nut (15).

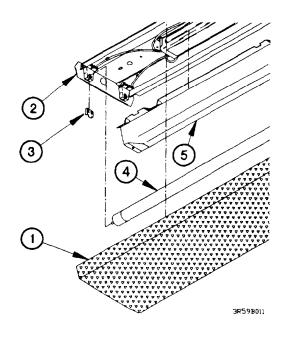
NOTE

- Perform step (9) on left front lighting fixture DS82.
- Install plastic cable ties as required.
- (9) Connect wire 1499K (13) and yellow/green wire (14) with wire nut (15).

- (10) Install ballast cover (16) on lighting fixture DS81 (2).
- (11) Install two fluorescent lamps (17) in lighting fixture DS81 (2).
- (12) Install tube lock holder (18) at each end of two fluorescent lamps (17).
- (13) Install diffuser (19) on lighting fixture DS81 (2).



c. Rear Lighting Fixture Removal.



NOTE

Left rear lighting fixture DS83 and right rear lighting fixture DS80 are removed the same way. Right rear lighting fixture DS80 shown.

- (1) Remove front lighting fixture (para 16-59).
- (2) Remove diffuser (1) from lighting fixture DS80 (2).
- (3) Remove tube lock holder (3) from each end of two fluorescent lamps (4).
- (4) Remove two fluorescent lamps (4) from lighting fixture DS80 (2).
- (5) Remove ballast cover (5) from lighting fixture DS80 (2).

16-59. M1079 LIGHTING FIXTURE AND CONDUIT REPLACEMENT (CONT)

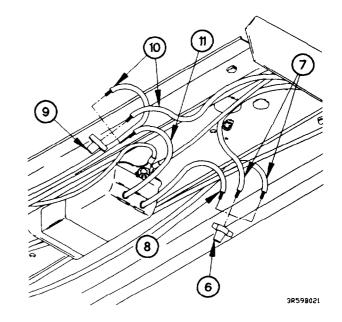
NOTE

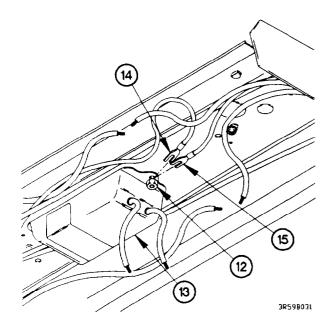
- Perform steps (6) and (7) on right rear lighting fixture DS80.
- Tag wires, terminal lugs, and connection points prior to disconnecting.
- Remove plastic cable ties as required.
- (6) Remove wire nut (6) from two wires 1499J (7) and yellow/green wire (8).
- (7) Remove wire nut (9) from three wires 706B (10) and black wire (11).

NOTE

Perform steps (8) and (9) on left rear lighting fixture DS83.

- (8) Remove wire nut (6) from two wires 1499K (7) and yellow/green wire (8).
- (9) Remove wire nut (9) from two wires 706B (10) and black wire (11).





(10) Loosen nut (12) on filter unit (13).

NOTE

Perform step (11) on right rear lighting fixture DS80.

(11) Remove wire 3085AK and 3085C terminal lugs (14 and 15) from filter unit (13).

NOTE

Perform step (12) on left rear lighting fixture DS83.

(12) Remove wires 3085AJ and 3085B (14 and 15) from filter unit (13).

NOTE

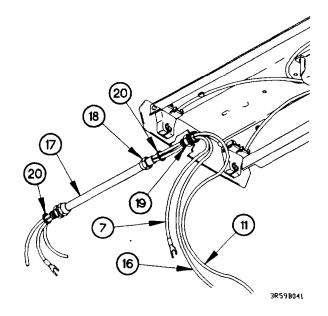
Perform step (13) on right rear lighting fixture DS80.

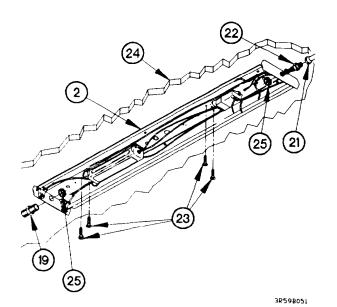
(13) Remove wires 1499J (7), 706B (11), and 3085AK (16) from conduit (17).

NOTE

Perform step (14) on left rear lighting fixture DS83.

- (14) Remove wires 1499K (7), 706B (11), and 3085AJ (16) from conduit (17).
- (15) Remove conduit nut (18) from conduit connector (19).
- (16) Remove two ferrules (20) and conduit nuts (18) from conduit (17).





(17) Remove conduit nut (21) from conduit connector (22).

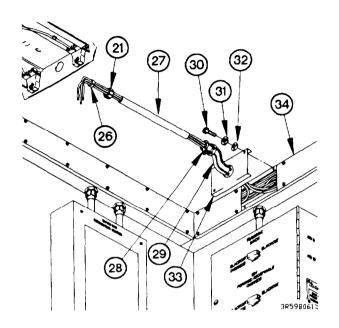
NOTE

Step (18) requires the aid of an assistant.

- (18) Remove four screws (23) and lighting fixture DS80 (2) from van body ceiling (24).
- (19) Remove two locknuts (25) and conduit connectors (19 and 22) from lighting fixture DS80 (2).

16-59. M1079 LIGHTING FIXTURE AND CONDUIT REPLACEMENT (CONT)

- (20) Remove ferrule (26) and conduit nut (21) from conduit (27).
- (21) Loosen screw (28) on conduit connector (29).
- (22) Remove conduit (27) from conduit connector (29).
- (23) Remove two screws (30), lockwashers (31), washers (32), and raceway cover (33) from raceway (34). Discard lockwashers.



NOTE

Perform step (24) on right side raceway cover

(24) Remove wires 3085C (35), 706B (10), and 1499J (7) from conduit connector (29).

NOTE

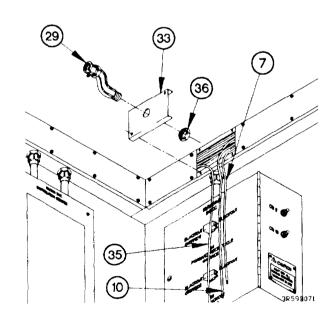
Perform step (25) on left side raceway cover.

(25) Remove wires 3085B (35), 706B (10), and 1499K (7) from conduit connector (29).

NOTE

Note position of conduit connector prior to removal.

(26) Remove locknut (36) and conduit connector (29) from raceway cover (33).



d. Rear Lighting Fixture Installation.

NOTE

Left rear lighting fixture DS83 and right rear lighting fixture DS80 are installed the same way. Right rear lighting fixture DS80 shown.

(1) Install conduit connector (1) in raceway cover (2) with locknut (3).

NOTE

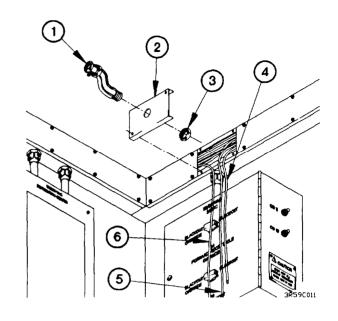
Perform step (2) on right rear lighting fixture DS80.

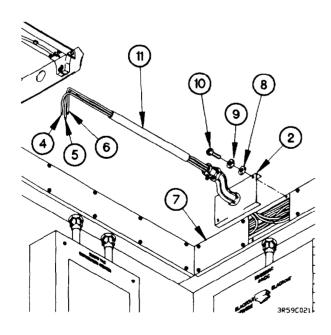
(2) Route wires 3085C (4), 706B (5), and 1499J (6) through conduit connector (1).

NOTE

Perform step (3) on left rear lighting fixture DS83.

(3) Route wires 3085B (4), 706B (5), and 1499K (6) through conduit connector (1).

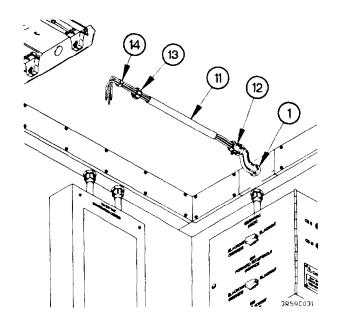


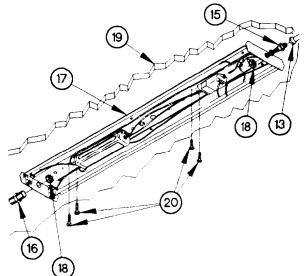


- (4) Install raceway cover (2) on raceway (7) with two washers (8), lockwashers (9), and screws (10).
- (5) Route wires 3085B (4), 706B (5), and 1499K (6) through conduit (11).

16-59. M1079 LIGHTING FIXTURE AND CONDUIT REPLACEMENT (CONT)

- (6) Install conduit (11) in conduit connector (1).
- (7) Tighten screw (12) in conduit connector (1).
- (8) Install conduit nut (13) and ferrule (14) on conduit (11).





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(9) Install conduit connectors (15 and 16) in light fixture (17) with two locknuts (18).

NOTE

Step (10) requires the aid of an assistant.

- (10) Install light fixture (17) on van body ceiling (19) with four screws (20).
- (11) Install conduit nut (13) on conduit connector (15).

16-386

(12) Position two conduit nuts (21) and ferrules (22) on conduit (23).

NOTE

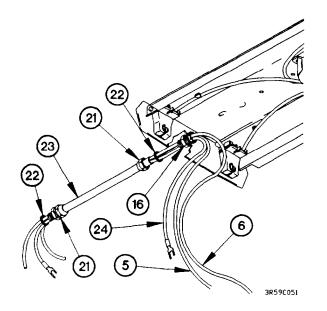
Perform step (13) on right rear lighting fixture DS80.

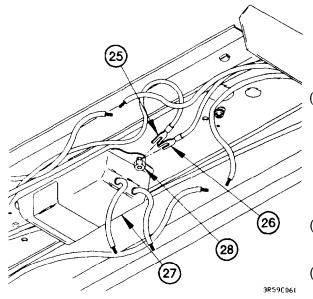
(13) Route wires 3085AK (24) 706B (5) and 1499J (6) through conduit (23).

NOTE

Perform step (14) on left rear lighting fixture DS83.

- (14) Route wires 3085AJ (24), 706B (5) and 1499K (6) through conduit (23).
- (15) Route wires 3085AJ (24), 706B (5) and 1499K (6) through conduit connector (16).
- (16) Install conduit nut (21) on conduit connector (16).





NOTE

Perform step (17) on right rear lighting fixture DS80.

(17) Install wire 3085AK and 3085C terminal lugs (25 and 26) on filter unit (27).

NOTE

Perform step (18) on left rear lighting fixture DS83.

- (18) Install wire 3085AJ and 3085B terminal lugs (25 and 26) on filter unit (27).
- (19) Tighten nut (28) on filter unit (27).

16-59. M1079 LIGHTING FIXTURE AND CONDUIT REPLACEMENT (CONT)

NOTE

Perform steps (20) and (21) on right rear lighting fixture DS80.

- (20) Connect three wires 706B (5) and black wire (29) with wire nut (30).
- (21) Connect two wires 1499J (6) and yellow/green wire (31) with wire nut (32).

NOTE

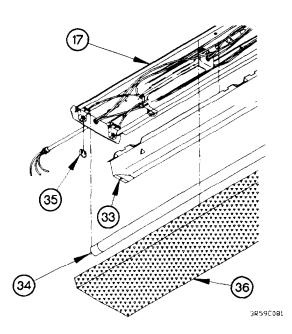
Perform steps (22) and (23) on left rear lighting fixture DS83.

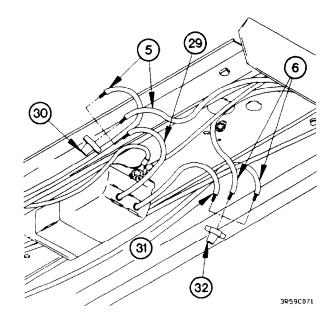
(22) Connect two wires 706B (5) and black wire (29) with wire nut (30).

NOTE

Install plastic cable ties as required.

(23) Connect two wires 1499K (6) and yellow/green wire (31) with wire nut (32).





- (24) Install ballast cover (33) on lighting fixture DS80 (17).
- (25) Install two fluorescent lamps (34) in lighting fixture DS80 (17).
- (26) Install tube lock holder (35) at each end of two fluorescent lamps (34).
- (27) Install diffuser (36) on lighting fixture DS80 (17).
- (28) Install front lighting fixture (para 16-59).

e. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Close LH and RH doors (TM 9-2320-365-10).
- (4) Check for proper operation of fluorescent lights (TM 9-2320-365-10).

End of Task.

16-60. M1079 CLEARANCE AND MARKER LIGHTS REPLACEMENT

This task covers:

a. Removalb. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Batteries disconnected (para 7-48).

Tools and Special Tools

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

Materials/Parts

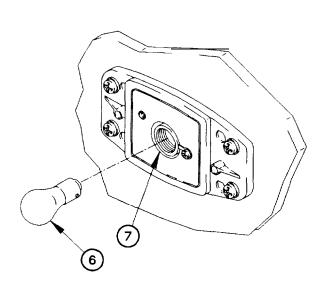
Lockwasher (4) (Item 77, Appendix G) Gasket (Item 28, Appendix G)

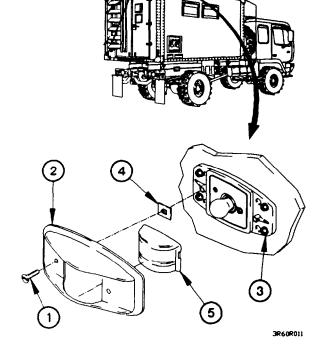
a. Removal.

NOTE

All M1079 clearance and marker lights are removed the same way. Right side rear marker light shown.

- (1) Remove two screws (1) and lens housing (2) from base (3).
- (2) Remove two clips (4) and lens (5) from lens housing (2).





(3) Remove lamp (6) from socket (7).

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16-60. M1079 CLEARANCE AND MARKER LIGHTS REPLACEMENT (CONT)

(4) Remove four screws (8), lockwashers (9), and base (3) from van body (10). Discard lockwashers.

NOTE

Refer to Table 16-7. M1079 Clearance and Marker Lights Location and Connectors for details.

- (5) Disconnect connector 489 (11) from connector (12).
- (6) Remove gasket (13) from van body (10). Discard gasket.

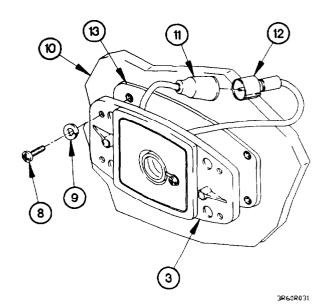


Table 16-7. M1079 Clearance and Marker Lights Location and Connectors

CLEARANCE/MARKER LIGHT LOCATION	CONNECTOR NUMBER
Left Front	P150
Left Front Center	P151
Front Center	P152
Right Front Center	P153
Right Front	P154
Left Side Rear	P155
Left Rear	P156
Left Rear Center	P157
Rear Center	P158
Right Rear Center	P159
Right Rear	P160
Right Side Rear	P161

b. Installation.

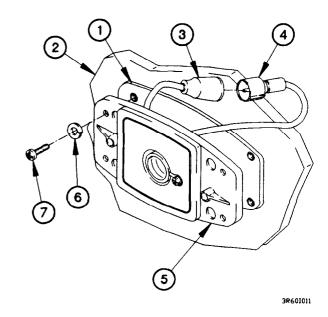
NOTE

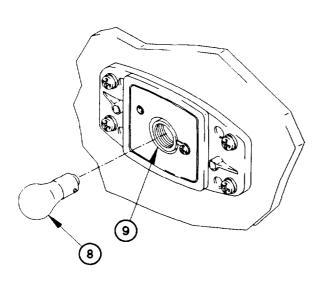
- All M1079 clearance and marker lights are installed the same way. Right side rear marker light shown.
- Discard gasket supplied with replacement clearance/marker light.
- (1) Position gasket (1) on van body (2).

NOTE

Refer to Table 16-7. M1079 Clearance and Marker Lights Location and Connectors for details.

- (2) Connect connector 489 (3) to connector (4).
- (3) Install base (5) on van body (2) with four lockwashers (6) and screws (7).





(4) Install lamp (8) in socket (9).

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16-60. M1079 CLEARANCE AND MARKER LIGHTS REPLACEMENT (CONT)

- (5) Install lens (10) in lens housing (11) with two clips (12).
- (6) Install lens housing (11) on base (5) with two screws (13).

11 12 5

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Check operation of clearance and marker lights (TM 9-2320-365-10).

3R601031

End of Task.

16-61. M1079 5/20 AMP DC CIRCUIT BREAKER REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

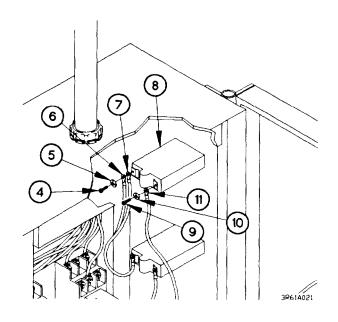
Tool Kit, Genl Mech (Item 44, Appendix C)

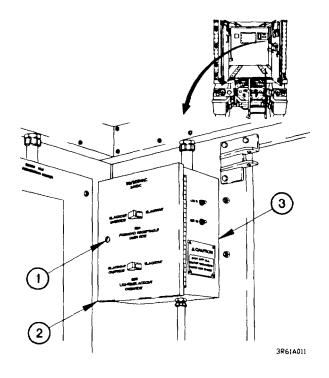
Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)

a. Removal.

- (1) Loosen screw (1) on cover (2).
- (2) Open cover (2) on relay box (3).





NOTE

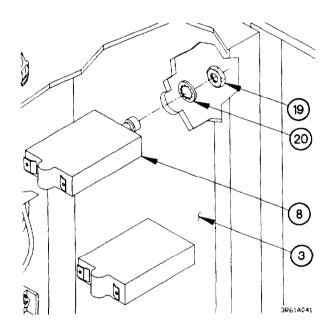
- Perform steps (3) and (4) on circuit breaker CB11.
- Tag wires and connection points prior to removal.
- (3) Remove screw (4), washer (5), and wires 1507 and 1507A terminal lugs (6 and 7) from left terminal on circuit breaker CB11 (8).
- (4) Remove screw (9), washer (10), and wire 49 terminal lug (11) from right terminal on circuit breaker CB11 (8).

16-61. M1079 5/20 AMP DC CIRCUIT BREAKER REPLACEMENT (CONT)

NOTE

Perform steps (5) and (6) on circuit breaker CB10.

- (5) Remove screw (12), washer (13), and wire 1507A terminal lug (6) from left terminal on circuit breaker CB10 (14).
- (6) Remove screw (15), washer (16), and wire 1508 and 1508A terminal lugs (17 and 18) from right terminal on circuit breaker CB10 (14).

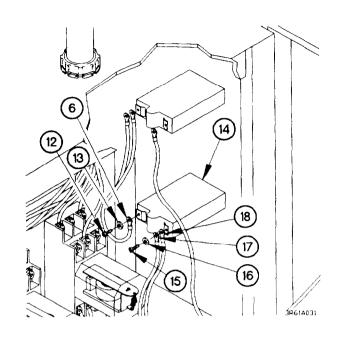


b. Installation.

NOTE

Circuit breakers CB10 and CB11 are installed the same way. Circuit breaker CB11 shown.

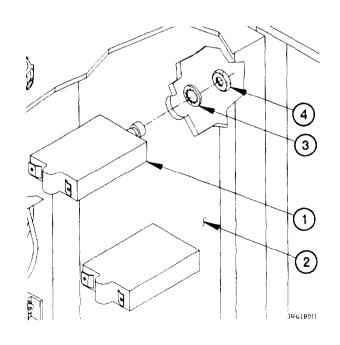
(1) Install circuit breaker CB11 (1) in relay box (2) with lockwasher (3) and nut (4).



NOTE

Circuit breakers CB10 and CB11 are removed the same way. Circuit breaker CB11 shown.

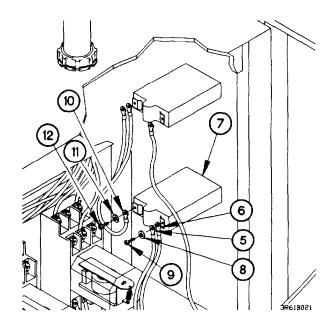
(7) Remove nut (19), lockwasher (20), and circuit breaker CB11 (8) from relay box (3).



NOTE

Perform steps (2) and (3) on circuit breaker CB10.

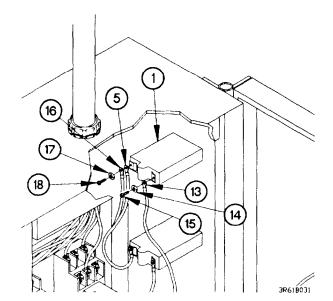
- (2) Install wire 1508 and 1508A terminal lugs (5 and 6) on right terminal of circuit breaker CB10 (7) with washer (8) and screw (9).
- (3) Install wire 1507A terminal lug (10) on left terminal of circuit breaker CB10 (7) with washer (11) and screw (12).



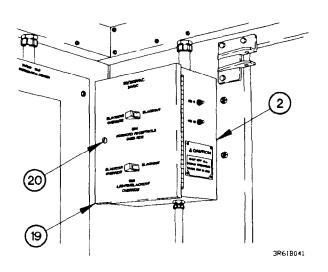
NOTE

Perform steps (4) and (5) on circuit breaker CB11.

- (4) Install wire 49 (13) on right terminal of circuit breaker CB11 (1) with washer (14) and screw (15).
- (5) Install wire 1507A and 1507 terminal lugs (5 and 16) on left terminal of circuit breaker CB11 (1) with washer (17) and screw (18).



- (6) Close cover (19) on relay box (2).
- (7) Tighten screw (20) on cover (19).



16-61. M1079 5/20 AMP DC CIRCUIT BREAKER REPLACEMENT (CONT)

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check for proper operation of blackout override (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-62. M1079 110 VAC AND 24 VDC RELAY REPLACEMENT

This task covers:

a. Removalb. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

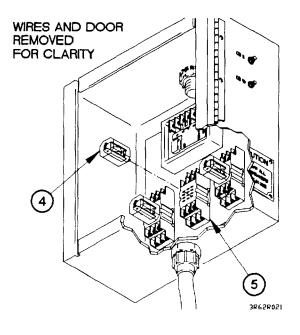
AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

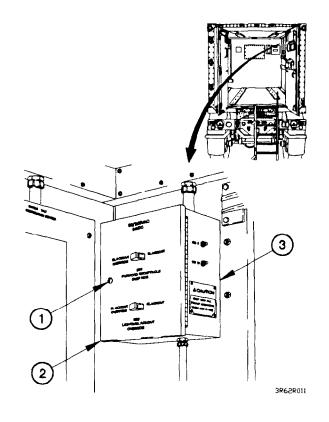
Tools and Special Tools

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

a. Removal.

- (1) Loosen screw (1) on cover (2).
- (2) Open cover (2) on relay box (3).





NOTE

All relays are replaced the same way. Relay K35 shown.

(3) Remove relay K35 (4) from relay socket (5).

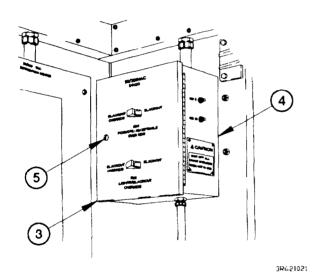
16-62. M1079 110 VAC AND 24 VDC RELAY REPLACEMENT (CONT)

b. Installation.

CAUTION

Relay can only be installed one way. Ensure pins on relay are aligned with sockets on relay base. Failure to comply may result in damage to equipment.

(1) Install relay K35 (1) in relay socket (2).



(1) Connect batteries (para 7-48).

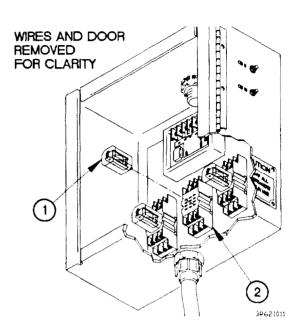
c. Follow-On Maintenance.

(2) Close cover (3) on relay box (4).

(3) Tighten screw (5) on cover (3).

- (2) Connect AC Power (TM 9-2320-365-10).
- (3) Check for proper operation of relay sub system (TM 9-2320-365-10).
- (4) Close LH and RH doors (if desired) (TM 9-2320-365-10).

End of Task.



This task covers:

- a. Removal
- b. Disassembly
- c. Assembly

- d. Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48).

Interior lights switch/box and conduit removed (para 16-50).

Right side fluorescent lights and conduits removed (para 16-59).

Tools and Special Tools

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

Materials/Parts

Ties, Cable, Plastic (Item 62, Appendix)
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Lockwasher (7) (Item 80, Appendix G)
Lockwasher (12) (Item 81, Appendix G)
Lockwasher (4) (Item 86, Appendix G)
Nut, Blind Rivet (8) (Item 114, Appendix G)

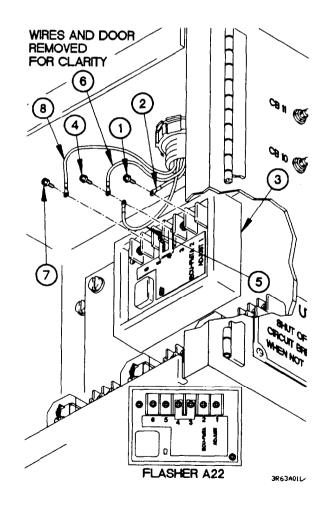
Personnel Required

(2)

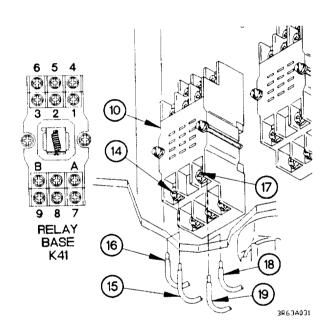
a. Removal.

NOTE

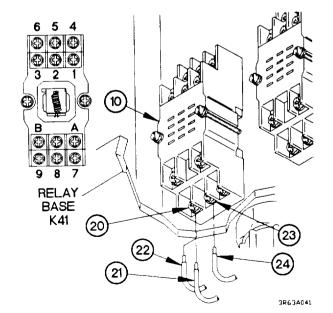
- Tag wires and connection points prior to removal.
- Remove plastic cable ties as required.
- (1) Remove screw 1 (1) and wire 1506 terminal lug (2) from flasher A22 (3).
- (2) Remove screw 3 (4), wire 3086 terminal lug (5), and wire 3086B terminal lug (6) from flasher A22 (3).
- (3) Remove screw 5 (7) and wire 2010 terminal lug (8) from flasher A22 (3).



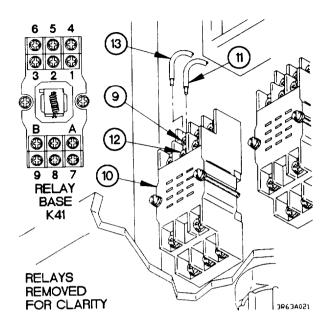
- (4) Loosen screw 6 (9) in relay base K41 (10).
- (5) Remove wire 706C (11) from relay base K41 (10).
- (6) Loosen screw 2 (12) in relay base K41 (10).
- (7) Remove wire 38A (13) from relay base K41 (10).



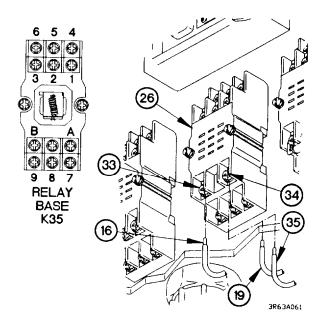
- (8) Loosen screw B (14) in relay base K41 (10).
- (9) Remove wires 1499L and 1499Q (15 and 16) from relay base K41 (10).
- (10) Loosen screw A (17) in relay base K41 (10).
- (11) Remove wires 1511 and 1511B (18 and 19) from relay base K41 (10).



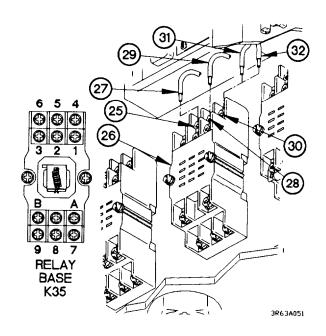
- (12) Loosen screw 9 (20) in relay base K41 (10).
- (13) Remove wires 708BB and 1510 (21 and 22) from relay base K41 (10).
- (14) Loosen screw 8 (23) in relay base K41 (10).
- (15) Remove wire 1505A (24) from relay base K41 (10).



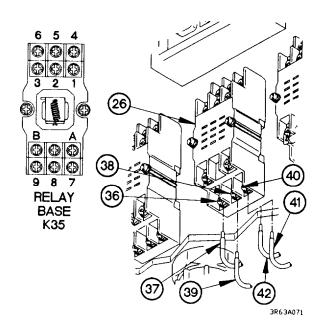
- (16) Loosen screw 6 (25) in relay base K35 (26).
- (17) Remove wire 702C (27) from relay base K35 (26).
- (18) Loosen screw 5 (28) in relay base K35 (26).
- (19) Remove wire 702B (29) from relay base K35 (26).
- (20) Loosen screw 4 (30) in relay base K35 (26).
- (21) Remove wires 702A and 702AA (31 and 32) from relay base K35 (26).



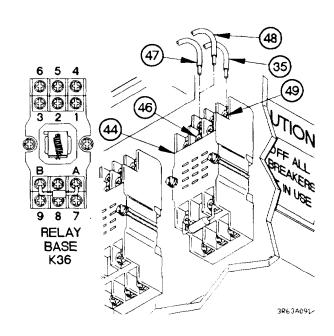
- (26) Loosen screw 9 (36) in relay base K35 (26).
- (27) Remove wire 701C (37) from relay base K35 (26).
- (28) Loosen screw 8 (38) in relay base K35 (26).
- (29) Remove wire 701B (39) from relay base K35 (26).
- (30) Loosen screw 7 (40) in relay base K35 (26).
- (31) Remove wires 701A and 701AA (41 and 42) from relay base K35 (26).



- (22) Loosen screw B (33) in relay base K35 (26).
- (23) Remove wire 1499Q (16) from relay base K35 (26).
- (24) Loosen screw A (34) in relay base K35 (26).
- (25) Remove wires 1511A and 1511B (35 and 19) from relay base K35 (26).



- (32) Loosen screw 6 (43) in relay base K36 (44).
- (33) Remove wire 38B (45) from relay base K36 (44).

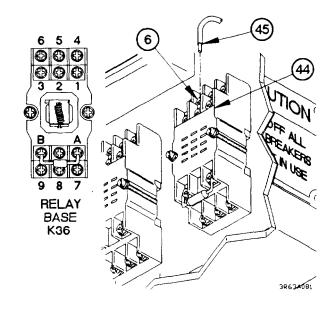


- (38) Loosen screw B (50) in relay base K36 (44).
- (39) Remove wire 3086B (51) from relay base K36 (44).
- (40) Loosen screw A (52) in relay base K36 (44).
- (41) Remove wires 38 and 709 (53 and 54) from relay base K36 (44).

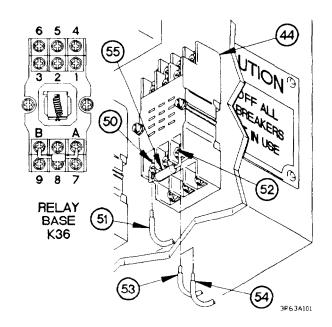
NOTE

Note position of gray band on diode prior to removal.

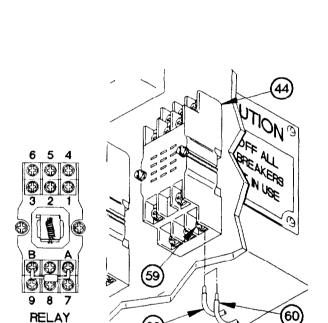
(42) Remove diode (55) from relay base K36 (44).



- (34) Loosen screw 2 (46) in relay base K36 (44).
- (35) Remove wires 1505 and 1505B (47 and 48) from relay base K36 (44).
- (36) Loosen screw 4 (49) in relay base K36 (44).
- (37) Remove wire 1511A (35) from relay base K36 (44).



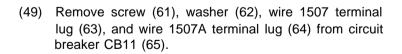
- (43) Loosen screw 9 (56) in relay base K36 (44).
- (44) Remove wire 38A (13) from relay base K36 (44).
- (45) Loosen screw 8 (57) in relay base K36 (44).
- (46) Remove wires 1505A and 1505C (24 and 58) from relay base K36 (44).

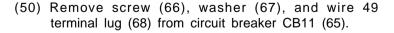


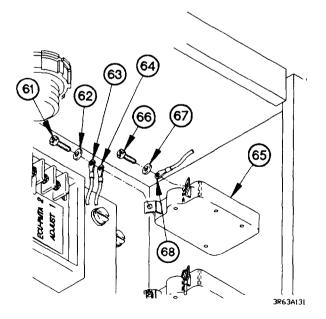
(22

BASE K36

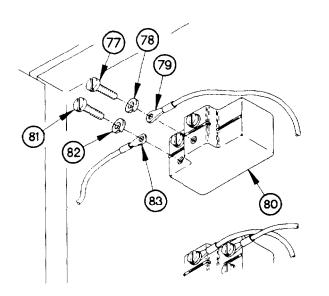
- (47) Loosen screw 7 (59) in relay base K36 (44).
- (48) Remove wires 707A and 1510 (60 and 22) from relay base K36 (44).

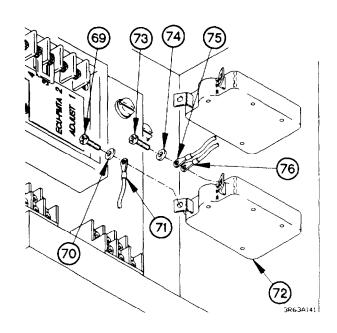






- (51) Remove screw (69), washer (70), and wire 1507A terminal lug (71) from circuit breaker CB10 (72).
- (52) Remove screw (73), washer (74), wire 1508 terminal lug (75), and wire 1508A terminal lug (76) from circuit breaker CB10 (72).

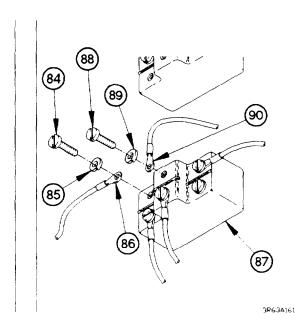




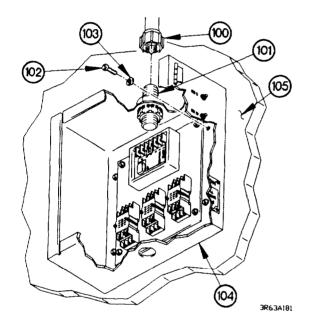
- (53) Remove screw (77), lockwasher (78), and wire 701AA terminal lug (79) from switch S34 (80). Discard lockwasher.
- (54) Remove screw (81), lockwasher (82), and wire 702AA terminal lug (83) from switch S34 (80). Discard lockwasher.

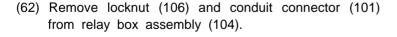
3R63A151

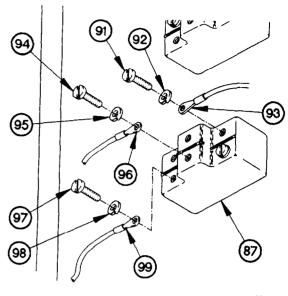
- (55) Remove screw (84), lockwasher (85), and wire 38 terminal lug (86) from switch S33 (87). Discard lockwasher.
- (56) Remove screw (88), lockwasher (89), and wire 1508 terminal lug (90) from switch S33 (87). Discard lockwasher.



- (57) Remove screw (91), lockwasher (92), and wire 1509 terminal lug (93) from switch S33 (87). Discard lockwasher.
- (58) Remove screw (94), lockwasher (95), and wire 707A terminal lug (96) from switch S33 (87). Discard lockwasher.
- (59) Remove screw (97), lockwasher (98), and wire 1511 terminal lug (99) from switch S33 (87). Discard lockwasher.

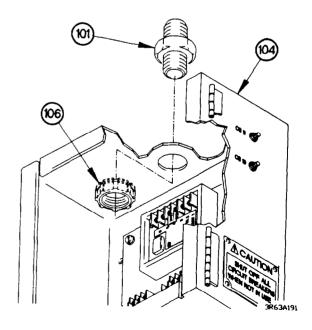






3R63A171

- (60) Remove conduit nut (100) from conduit connector (101).
- (61) Remove four screws (102), washers (103), and relay box assembly (104) from van body wall (105).

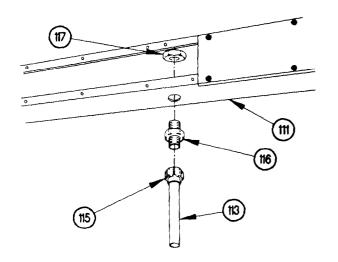


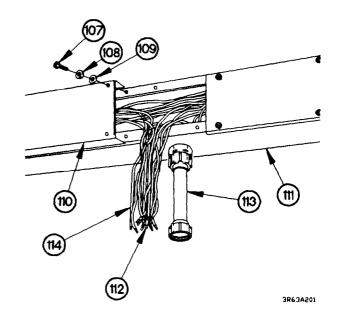
- (63) Remove four screws (107), lockwashers (108), washers (109), and cover (110) from raceway (111). Discard lockwashers.
- (64) Remove wires (112) from conduit (113).

NOTE

Perform step (65) on van bodies serial number 191 and higher.

(65) Remove wires (114) from conduit (113).

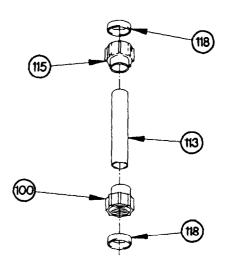




- (66) Remove conduit nut (115) and conduit (113) from conduit connector (116).
- (67) Remove locknut (117) and conduit connector (116) from raceway (111).

3R63A211

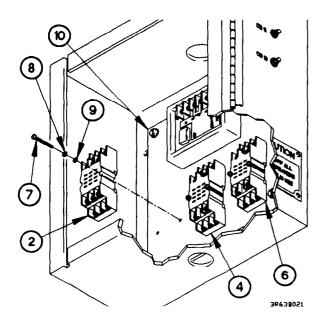
(68) Remove two ferrules (118) and conduit nuts (100 and 115) from conduit (113).



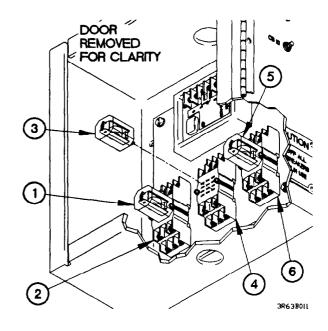
3R63A221

b. Disassembly.

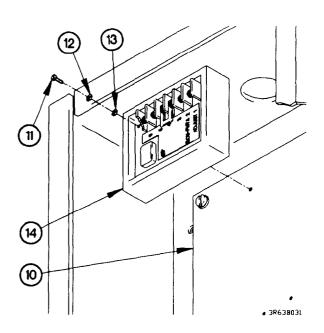
- (1) Remove relay K41 (1) from relay base (2).
- (2) Remove relay K35 (3) from relay base (4).
- (3) Remove relay K36 (5) from relay base (6).



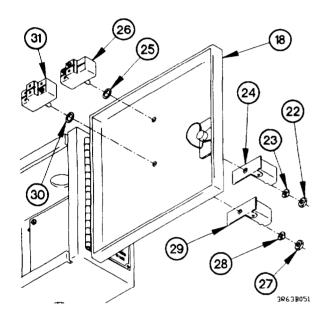
(5) Remove two screws (11), lockwashers (12), washers (13), and flasher A22 (14) from inner Plate (10). Discard lockwashers.



(4) Remove six screws (7), lockwashers (8), washers (9), and three relay bases (2, 4, and 6) from inner plate (10). Discard lockwashers.

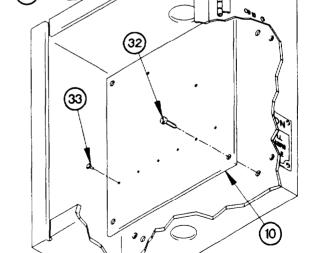


- (6) Remove nut (15), lockwasher (16), and circuit breaker CB11 (17) from relay box (18). Discard lockwasher.
- (7) Remove nut (19), lockwasher (20), and circuit breaker CB10 (21) from relay box (18). Discard lockwasher.



- (8) Remove nut (22), lockwasher (23), switch guard (24), key washer (25), and switch S34 (26) from relay box (18). Discard lockwasher.
- (9) Remove nut (27), lockwasher (28), switch guard (29), key washer (30), and switch S33 (31) from relay box (18). Discard lockwasher.

18

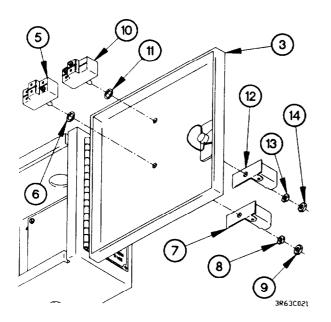


3R63B061

- (10) Remove four screws (32) and inner plate (10) from relay box (18).
- (11) Remove eight blind rivet nuts (33) from inner plate (10).

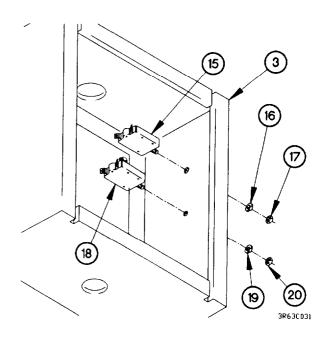
c. Assembly.

- (1) Install eight blind rivet nuts (1) in inner plate (2).
- (2) Install inner plate (2) in relay box (3) with four screws (4).

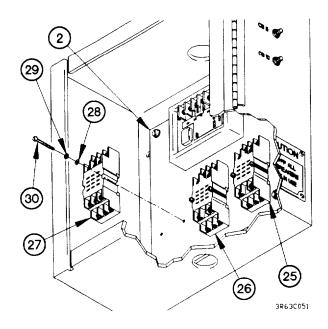


- 3 4 2 3R63C0II
- (3) Install switch S33 (5) in relay box (3) with keywasher (6), switch guard (7), lockwasher (8) and nut (9).
- (4) Install switch S34 (10) in relay box (3) with keywasher (11), switch guard (12), lockwasher (13) and nut (14).

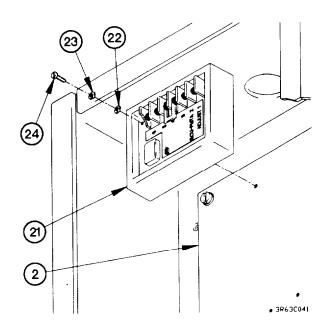
- (5) Install circuit breaker CB10 (15) in relay box (3) with lockwasher (16) and nut (17).
- (6) Install circuit breaker CB11 (18) in relay box (3) with lockwasher (19) and nut (20).



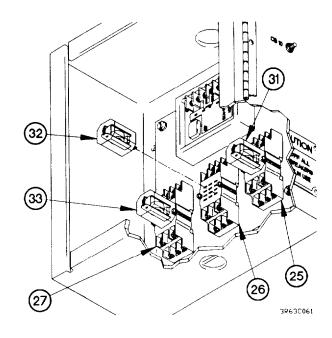
(7) Install flasher A22 (21) on inner plate (2) with two washers (22), lockwashers (23), and screws (24).



- (9) Install relay K36 (31) on relay base (25).
- (10) Install relay K35 (32) on relay base (26).
- (11) Install relay K41 (33) on relay base (27).

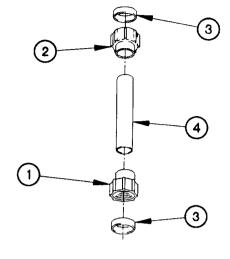


(8) Install relay bases (25, 26, and 27) on inner plate (2) with six washers (28), lockwashers (29), and screws (30).

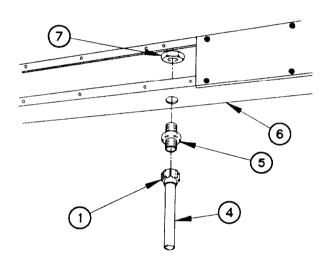


d. Installation.

(1) Install conduit nuts (1 and 2) and two ferrules (3) on conduit (4).



3R631011



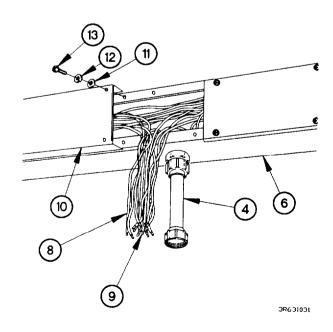
- (2) Install conduit connector (5) in raceway (6) with locknut (7).
- (3) Install conduit (4) on conduit connector (5) with conduit nut (1).

3R631021

NOTE

Perform step (4) on van bodies serial number 191 and higher.

- (4) Route wires (8) through conduit (4).
- (5) Route wires (9) through conduit (4).
- (6) Install cover (10) on raceway (6) with four washers (11), lockwashers (12), and screws (13).

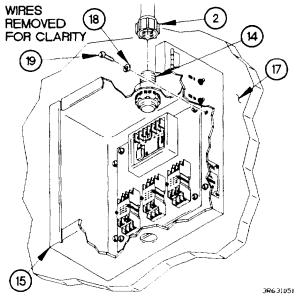


(7) Install conduit connector (14) in relay box assembly (15) with locknut (16).

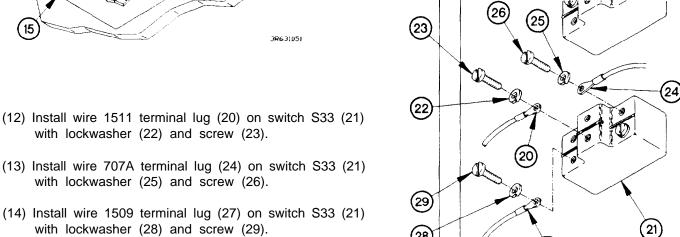
NOTE

Perform step (8) on van bodies serial number 191 and higher.

- (8) Route two wires (8) through conduit connector (14).
- (9) Route 20 wires (9) through conduit connector (14).



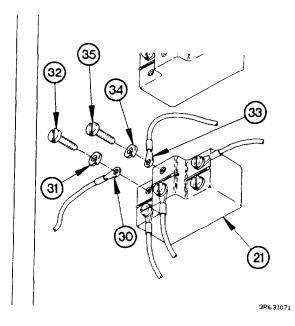
- (8) DOOR REMOVED FOR CLARITY [4](16)3R631041
- (10) Install relay box assembly (15) on van body wall (17) with four washers (18) and screws (19).
- (11) Install conduit nut (2) on conduit connector (14).

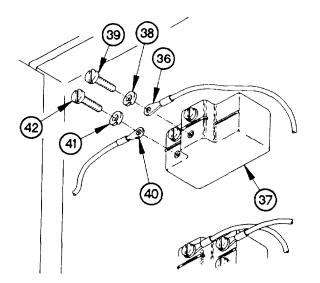


(28

3R631061

- (15) Install wire 1508 terminal lug (30) on switch S33 (21) with lockwasher (31) and screw (32).
- (16) Install wire 38 terminal lug (33) on switch S33 (21) with lockwasher (34) and screw (35).

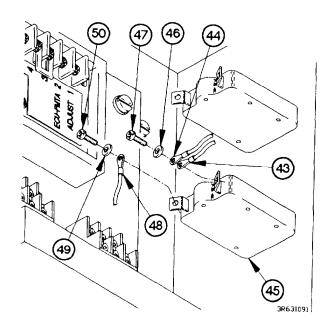




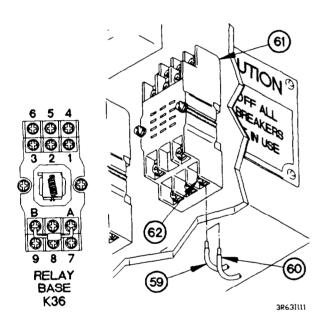
- (17) Install wire 702AA terminal lug (36) on switch S34 (37) with lockwasher (38) and screw (39).
- (18) Install wire 701AA terminal lug (40) on switch S34 (37) with lockwasher (41) and screw (42).

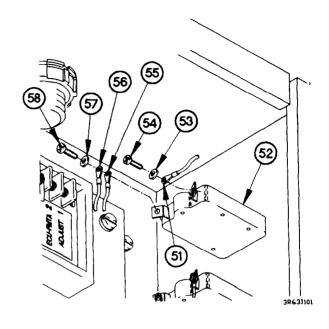
3R6310B1

- (19) Install wire 1508A terminal lug (43) and wire 1508 terminal lug (44) on circuit breaker CB10 (45) with washer (46) and screw (47).
- (20) Install wire 1507A terminal lug (48) on circuit breaker CB10 (45) with washer (49) and screw (50).



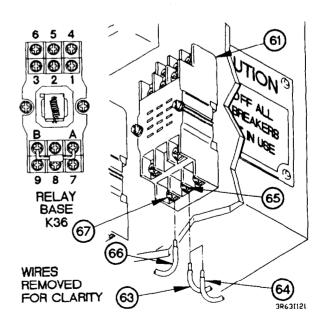
- (21) Install wire 49 terminal lug (51) on circuit breaker CB11 (52) with washer (53) and screw (54).
- (22) Install wire 1507A terminal lug (55) and wire 1507 terminal lug (56) on circuit breaker CB11 (52) with washer (57) and screw (58).



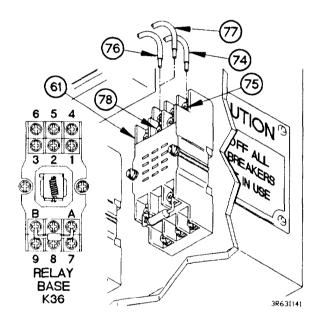


- (23) Install wires 1510 and 707A (59 and 60) in relay base K36 (61).
- (24) Tighten screw 7 (62) in relay base K36 (61).

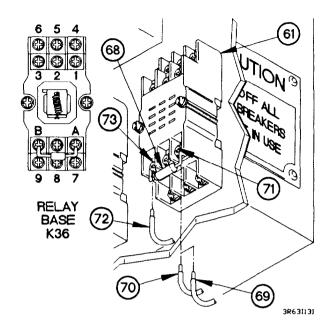
- (25) Install wires 1505C and 1505A (63 and 64) in relay base K36 (61).
- (26) Tighten screw 8 (65) in relay base K36 (61).
- (27) Install wire 38A (66) in relay base K36 (61).
- (28) Tighten screw 9 (67) in relay base K36 (61).



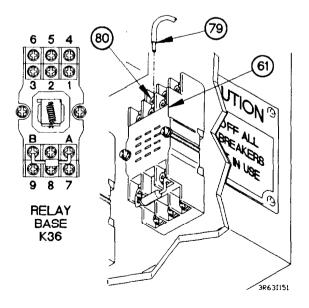
- (29) Install diode (68) on relay base K36 (61).
- (30) Install wires 709 and 38 (69 and 70) in relay base K36 (61).
- (31) Tighten screw A (71) in relay base K36 (61).
- (32) Install wire 3086B (72) in relay base K36 (61)
- (33) Tighten screw B (73) in relay base K36 (61).



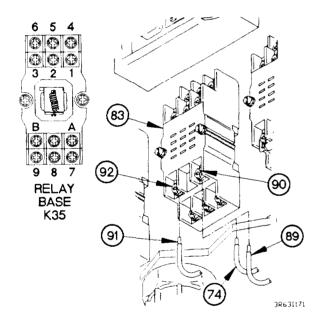
- (38) Install wire 38B (79) in relay base K36 (61).
- (39) Tighten screw 6 (80) in relay base K36 (61).



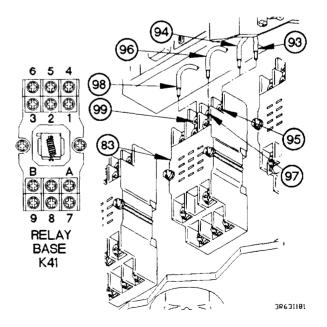
- (34) Install wire 1511A (74) in relay base K36 (61).
- (35) Tighten screw 4 (75) in relay base K36 (61).
- (36) Install wires 1505B and 1505 (76 and 77) in relay base K36 (61).
- (37) Tighten screw 2 (78) in relay base K36 (61).



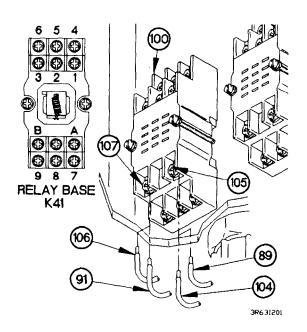
- (40) Install wires 701AA and 701A (81 and 82) in relay base K35 (83).
- (41) Tighten screw 7 (84) in relay base K35 (83).
- (42) Install wire 701B (85) in relay base K35 (83).
- (43) Tighten screw 8 (86) in relay base K35 (83).
- (44) Install wire 701C (87) in relay base K35 (83).
- (45) Tighten screw 9 (88) in relay base K35 (83).



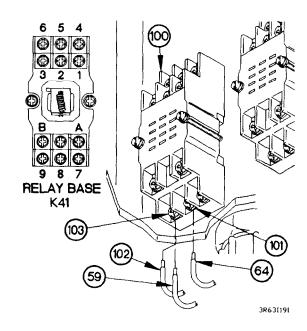
- (46) Install wires 1511B and 1511A (89 and 74) in relay base K35 (83).
- (47) Tighten screw A (90) in relay base K35 (83).
- (48) Install wire 1499Q (91) in relay base K35 (83).
- (49) Tighten screw B (92) in relay base K35 (83).
- (50) Install wires 702AA and 702A (93 and 94) in relay base K35 (83).
- (51) Tighten screw 4 (95) in relay base K35 (83).
- (52) Install wire 702B (96) in relay base K35 (83).
- (53) Tighten screw 5 (97) in relay base K35 (83).
- (54) Install wire 702C (98) in relay base K35 (83).
- (55) Tighten screw 6 (99) in relay base K35 (83).



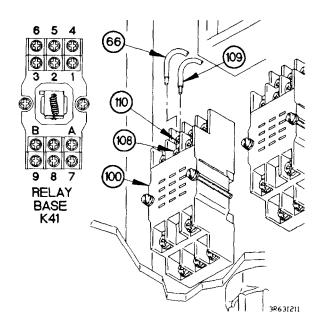
- (56) Install wire 1505A (64) in relay base K41 (100).
- (57) Tighten screw 8 (101) in relay base K41 (100).
- (58) Install wires 1510 and 708BB (59 and 102) in relay base K41 (100).
- (59) Tighten screw 9 (103) in relay base K41 (100).



- (64) Install wire 38A (66) in relay base K41 (100).
- (65) Tighten screw 2 (108) in relay base K41 (100).
- (66) Install wire 706C (109) in relay base K41 (100).
- (67) Tighten screw 6 (110) in relay base K41 (100).



- (60) Install wires 1511B and 1511 (89 and 104) in relay base K41 (100).
- (61) Tighten screw A (105) in relay base K41 (100).
- (62) Install wires 1499Q and 1499L (91 and 106) in relay base K41 (100).
- (63) Tighten screw B (107) in relay base K41 (100).

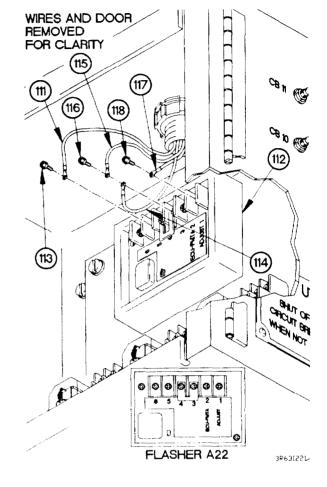


16-63. M1079 RELAY BOX ASSEMBLY REPLACEMENT/REPAIR (CONT)

- (68) Install wire 2010 terminal lug (111) on flasher A22 (112) with screw 5 (113).
- (69) Install wire 3086B terminal lug (114) and wire 3086 terminal lug (115) on flasher A22 (112) with screw 3 (116).
- (70) Install wire 1506 terminal lug (117) on flasher A22 (112) with screw 1 (118).

e. Follow-On Maintenance.

- (1) Install right side fluorescent lights and conduits (para 16-59).
- (2) Install interior lights switch/box, and conduit (para 16-50).
- (3) Connect batteries (para 7-48).
- (4) Connect AC power (TM 9-2320-365-10).
- (5) Operate van body lighting systems and check for proper operation (TM 9-2320-365-10).



End of Task.

16-64. M1079 15/20/30 AND 50 AMP AC CIRCUIT BREAKER REPLACEMENT

This task covers:

a. Removalb. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Materials/Parts

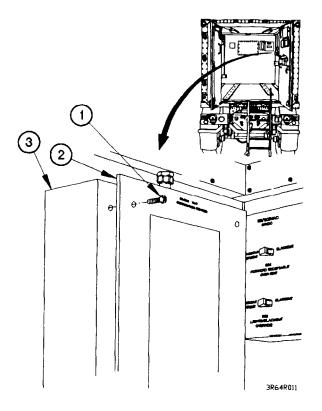
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)

Tools and Special Tools

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

a. Removal.

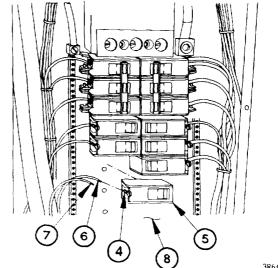
(1) Remove six screws (1) and 110/208 VAC POWER DISTRIBUTION PANEL cover (2) from 110/208 vac power distribution box (3).



16-64. M1079 15/20/30 AND 50 AMP AC CIRCUIT BREAKER REPLACEMENT (CONT)

NOTE

- Tag wires and connection points prior to removal.
- All eight circuit breakers are removed the same way. Circuit breaker CB8 shown.
- Refer to Table 16-8. M1079 Circuit Breakers and Wire Numbers for details.
- Remove plastic cable ties as required.
- (2) Loosen screw (4) on circuit breaker CB8 (5).
- (3) Remove wires 400 (6) and 415 (7) from circuit breaker CB8 (5).
- (4) Remove circuit breaker CB8 (5) from 110/208 VAC POWER DISTRIBUTION PANEL (8).



3R64R021

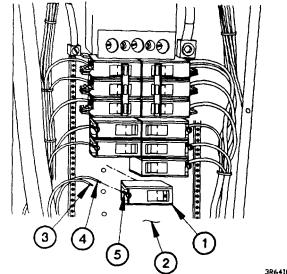
Table 16-8. M1079 Circuit Breakers and Wire Numbers

Circuit Breaker	Amperage	Wire Number
CB2	30AMP	1500/1501/1502
CB3	50AMP	500AA/501BB/502CC
CB4	15AMP	NOT USED
CB5	20AMP	701A
CB6	15AMP	708BB
CB7	20AMP	701B
CB8	15AMP	400/415
СВ9	20AMP	701C

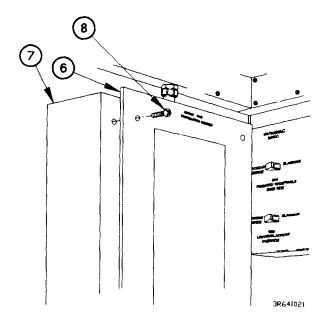
b. Installation.

NOTE

- All eight circuit breakers are installed the same way. Circuit breaker CB8 shown.
- Refer to Table 16-8. M1079 Circuit Breakers and Wire Numbers for details.
- Install plastic cable ties as required.
- (1) Install circuit breaker CB8 (1) on 110/208 VAC POWER DISTRIBUTION PANEL (2).
- (2) Install wires 415 (3) and 400 (4) in circuit breaker CB8 (1).
- (3) Tighten screw (5) on circuit breaker CB8 (1).



3R641011



Install cover (6) on 110/208 VAC POWER DISTRIBUTION PANEL (7) with six screws (8).

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check for proper operation of affected circuit breaker (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-65. M1079 200 AMP AC CIRCUIT BREAKER REPLACEMENT

This task covers:

a. Removal

b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

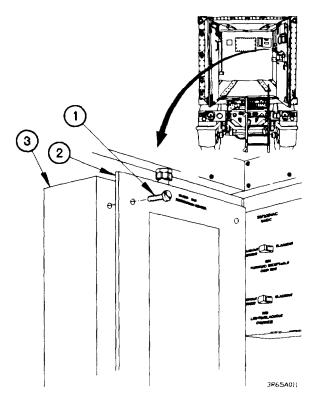
Tool Kit, Genl Mech (Item 44, Appendix C) Screwdriver Attachment, Socket Wrench (Item 47, Appendix B)

Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)

a. Removal.

(1) Remove six screws (1) and cover (2) from 110/208 VAC POWER DISTRIBUTION PANEL (3).

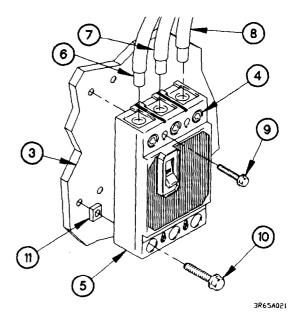


(2) Loosen three screws (4) in 200 amp circuit breaker (5).

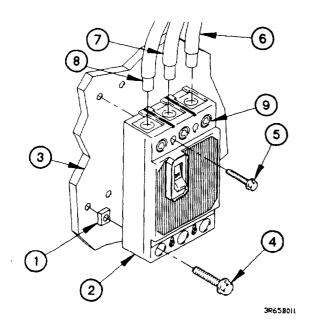
NOTE

Tag wires and connection points prior to disconnecting.

- (3) Remove wires 500 (6), 501 (7), and 502 (8) from 200 amp circuit breaker (5).
- (4) Remove two screws (9) from 200 amp circuit breaker (5).
- (5) Remove three screws (10), 200 amp circuit breaker (5), and three spacers (11) from 110/208 VAC POWER DISTRIBUTION PANEL (3).



b. Installation.



- (1) Install three spacers (1) and 200 amp circuit breaker (2) in 110/208 VAC POWER DISTRIBUTION PANEL (3) with three screws (4).
- (2) Install two screws (5) in 200 amp circuit breaker (2).
- (3) Install wires 502 (6), 501 (7), and 500 (8) in 200 amp circuit breaker (2).
- (4) Tighten three screws (9) in 200 amp circuit breaker

TM 9-2320-365-20-4

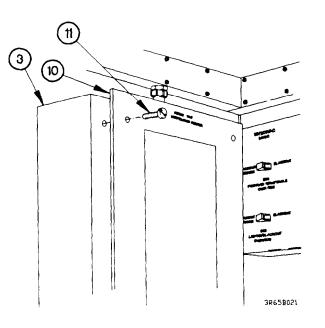
16-65. M1079 200 AMP AC CIRCUIT BREAKER REPLACEMENT (CONT)

(5) Install cover (10) on 110/208 VAC POWER DISTRIBUTION PANEL (3) with six screws (11).

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check for proper operation of AC power system (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).





16-66. M1079 110/208 VAC POWER DISTRIBUTION PANEL REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

15/20/30 and 50 amp AC circuit breakers removed (para 16-64).

Tools and Special Tools

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

Materials/Parts

Ties, Cable, Plastic (Item 76, Appendix D) Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)

Materials/Parts (Cont)

Lockwasher (28) (van body serial numbers 001 through 190) (Item 77, Appendix G)
Lockwasher (16) (van bodies serial number 191 and higher) (Item 77, Appendix G)
Lockwasher (12) (Item 76, Appendix G)
Lockwasher (4) (Item 83, Appendix G)

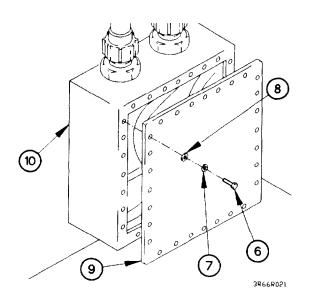
Personnel Required

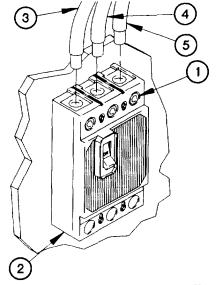
(2)

a. Removal

NOTE

- Tag wires and connection points prior to disconnecting.
- · Remove plastic cable ties as required.
- (1) Loosen three screws (1) in 200 amp AC circuit breaker (2).
- (2) Remove wires 500 (3), 501 (4), and 502 (5) from 200 amp AC circuit breaker (2).





3R66R011

NOTE

Perform step (3) on van body serial numbers 001 through 190.

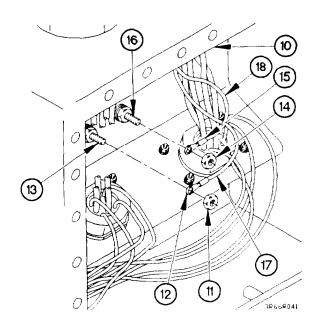
(3) Remove 28 screws (6), lockwashers (7), washers (8), and cover (9) from 110/208 vac power entry panel (10). Discard lockwashers.

16-66. M1079 110/208 VAC POWER DISTRIBUTION PANEL REPLACEMENT (CONT)

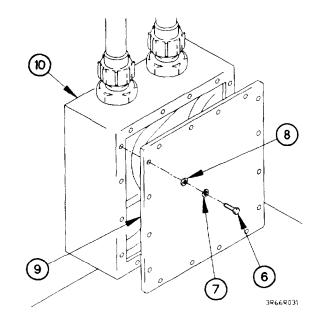
NOTE

Perform step (4) on van bodies serial number 191 and higher.

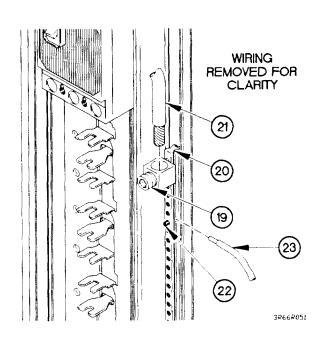
(4) Remove 16 screws (6), lockwashers (7), washers (8), and cover (9) from 110/208 vac power entry panel (10). Discard lockwashers.



- (8) Loosen screw (19) on terminal board TB4 (20).
- (9) Remove wire 1499P (21) from terminal board TB4 (20).
- (10) Loosen screw (22) on terminal board TB4 (20).
- (11) Remove wire 1499N (23) from terminal board TB4 (20).



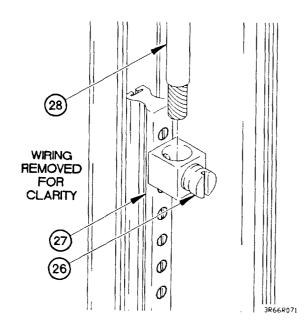
- (5) Remove nut (11) and wire 425 terminal lug (12) from negative field telephone binding post (13).
- (6) Remove nut (14) and wire 424 terminal lug (15) from positive field telephone binding post (16).
- (7) Remove wires 425 (17) and 424 (18) from 110/208 vac power entry panel (10).



NOTE

Tag wires and connection points prior to removal.

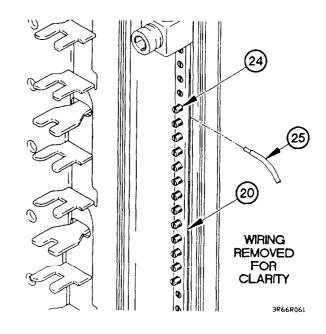
- (12) Loosen 12 screws (24) on terminal board TB4 (20).
- (13) Remove 12 wires 1499A-M (25) from terminal board TB4 (20).



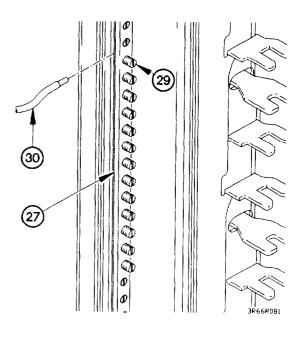


Tag wires and connection points prior to removal.

- (16) Loosen 13 screws (29) on terminal board TB3 (27).
- (17) Remove 13 wires 3085A-W (30) from terminal board TB3 (27).

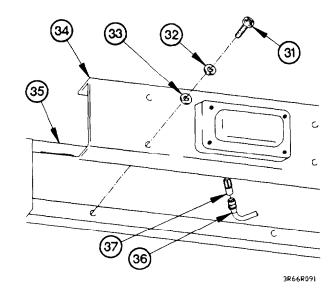


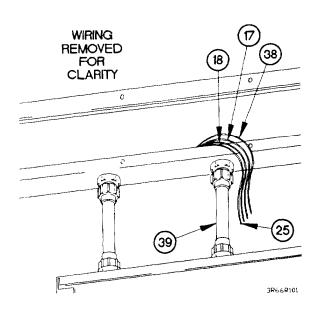
- (14) Loosen screw (26) on terminal board TB3 (27).
- (15) Remove wire 3085Y (28) from terminal board TB3 (27).



16-66. M1079 110/208 VAC POWER DISTRIBUTION PANEL REPLACEMENT (CONT)

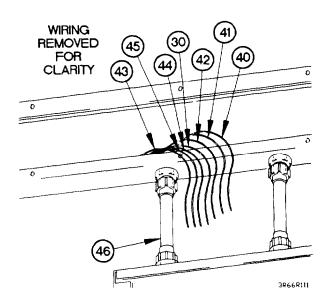
- (18) Remove 12 screws (31), lockwashers (32), washers (33), and raceway cover (34) from raceway (35). Discard lockwashers.
- (19) Disconnect emergency light connector J163 (36) from connector P163 (37).



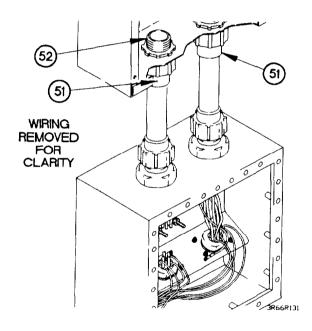


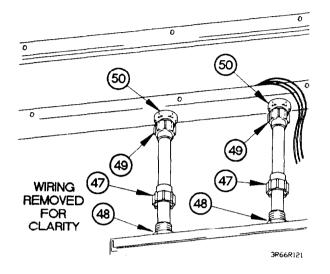
(20) Remove 12 wires 1499 (25), wire 425 (17), wire 424 (18), and three wires 701 (38) from conduit (39).

(21) Remove 13 wires 3085 (30), wire 1500 (40), wire 1501 (41), wire 1502 (42), wire 400 (43), wire 415 (44), and wire 708BB (45) from conduit (46).



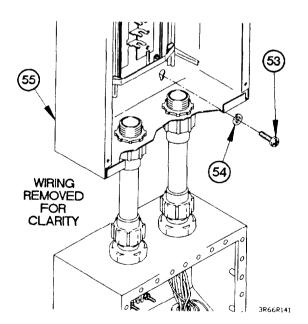
- (22) Remove two conduit nuts (47) from conduit connectors (48).
- (23) Loosen two conduit nuts (49) on conduit connectors (50).





(24) Remove two conduit nuts (51) from conduit connectors (52).

(25) Remove four screws (53) and lockwashers (54) from 110/208 VAC POWER DISTRIBUTION PANEL (55). Discard lockwashers.

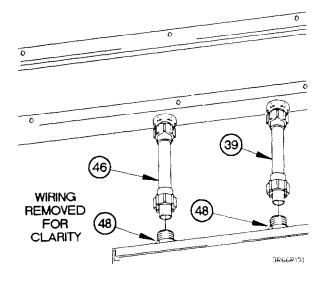


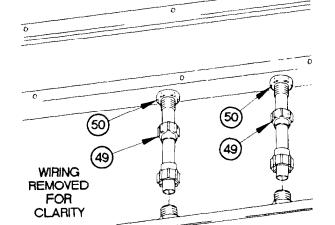
16-66. M1079 110/208 VAC POWER DISTRIBUTION PANEL REPLACEMENT (CONT)

NOTE

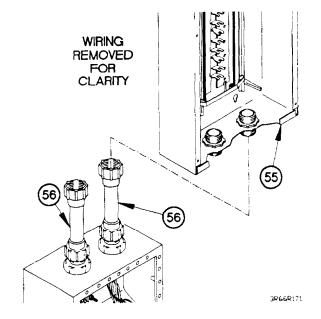
Steps (26) and (27) require the aid of an assistant.

(26) Lift two conduits (39 and 46) clear of conduit connectors (48).





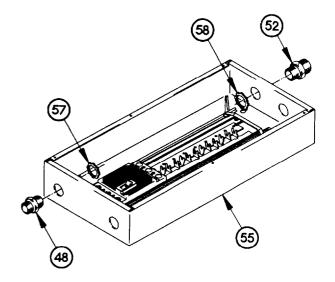
(27) Remove two conduit nuts (49) from conduit connectors (50).



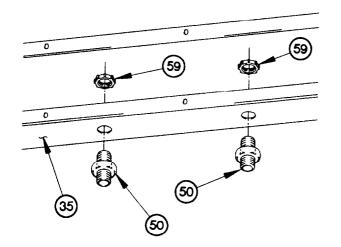
(28) Remove 110/208 VAC POWER DISTRIBUTION PANEL (55) from two conduits (56).

3R66R161

- (29) Remove two locknuts (57) and conduit connectors (48) from 110/208 VAC POWER DISTRIBUTION PANEL (55).
- (30) Remove two locknuts (58) and conduit connectors (52) from 110/208 VAC POWER DISTRIBUTION PANEL (55).



3R66R181

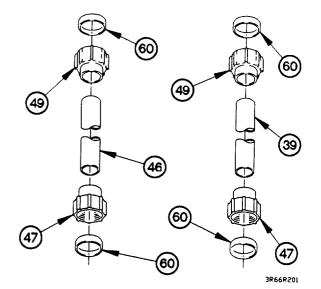


(31) Remove two locknuts (59) and conduit connectors (50) from raceway (35).

3R66R191

(32) Remove two ferrules (60) and conduit nuts (47 and

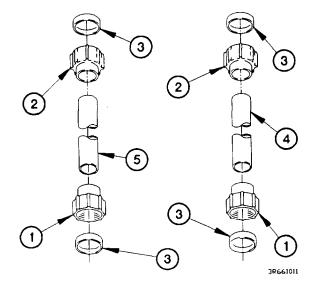
49) from two conduits (39 and 46).

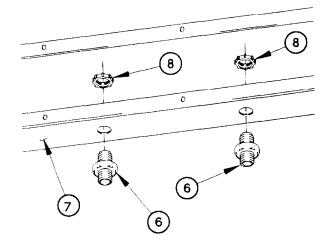


16-66. M1079 110/208 VAC POWER DISTRIBUTION PANEL REPLACEMENT (CONT)

b. Installation.

(1) Install conduit nuts (1 and 2) and two ferrules (3) On two conduits (4 and 5).

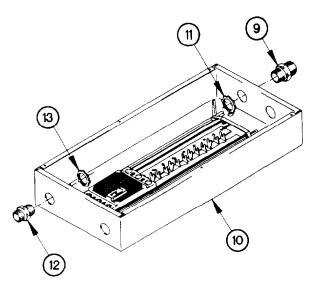




(2) Install two conduit connectors (6) in raceway (7) with locknuts (8).

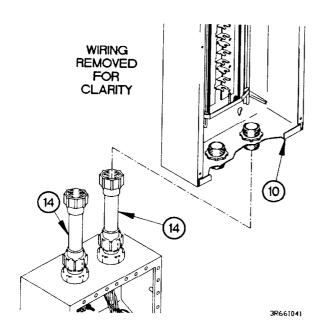
3R661021

- (3) Install two conduit connectors (9) in 110/208 VAC POWER DISTRIBUTION PANEL (10) with locknuts (11).
- (4) Install two conduit connectors (12) in 110/208 VAC POWER DISTRIBUTION PANEL (10) with locknuts (13).

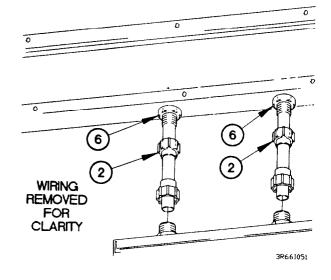


3R661031

(5) Position two conduit nuts (2) on conduit connectors (6).



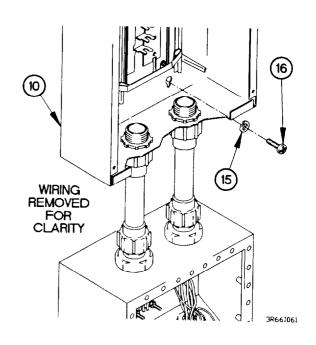
(7) Install four lockwashers (15) and screws (16) in 110/208 VAC POWER DISTRIBUTION PANEL (10).



NOTE

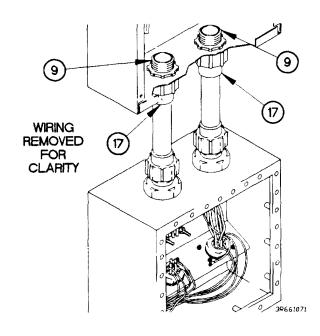
Step (6) requires the aid of an assistant.

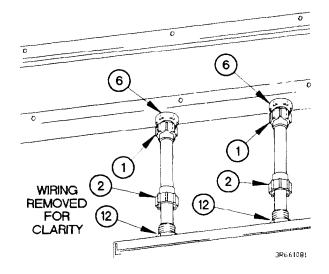
(6) Position 110/208 VAC POWER DISTRIBUTION PANEL (10) and two conduits (14).



16-66. M1079 110/208 VAC POWER DISTRIBUTION PANEL REPLACEMENT (CONT)

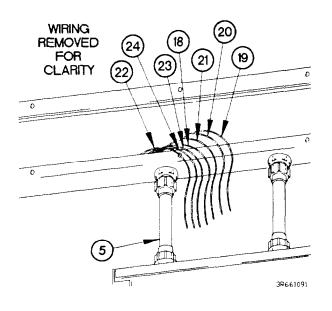
(8) Install two conduit nuts (17) on conduits connectors (9).



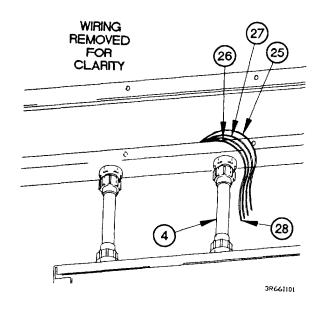


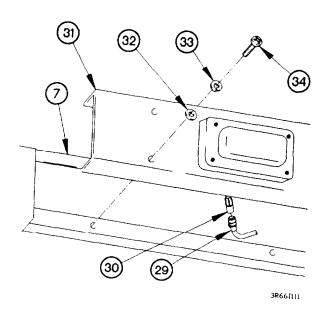
- (9) Install two conduit nuts (2) on conduit connectors (12).
- (10) Tighten two conduit nuts (1) on conduit connectors (6).

(11) Route 13 wires 3085A-W (18), wire 1500 (19), wire 1501 (20), wire 1502 (21), wire 400 (22), wire 415 (23), and wire 708BB (24) through conduit (5).



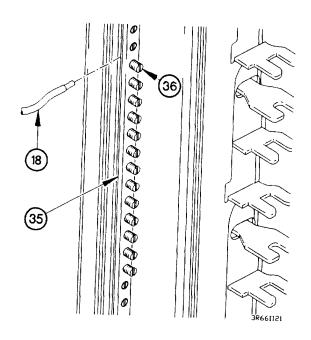
(12) Route three wires 701 (25), wire 424 (26), wire 425 (27), and 12 wires 1499A-M (28) through conduit (4).





- (13) Connect emergency light connector J163 (29) to connector P163 (30).
- (14) Install raceway cover (31) on raceway (7) with 12 washers (32), lockwashers (33), and screws (34).

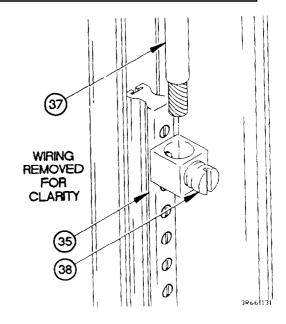
- (15) Install 13 wires 3085A-W (18) on terminal board TB3 (35).
- (16) Tighten 13 screws (36) on terminal board TB3 (35).

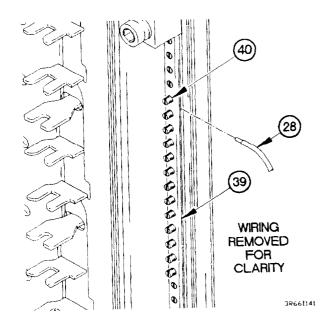


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16-66. M1079 110/208 VAC POWER DISTRIBUTION PANEL REPLACEMENT (CONT)

- (17) Install wire 3085Y (37) in terminal board TB3 (35).
- (18) Tighten screw (38) on terminal board TB3 (35).



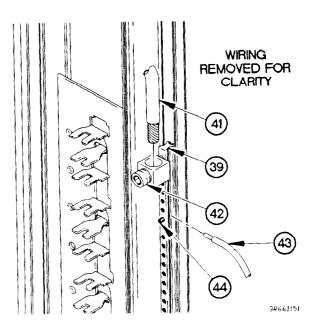


- (19) Install 12 wires 1499A-M (28) on terminal board TB4 (39).
- (20) Tighten 12 screws (40) on terminal board TB4 (39).

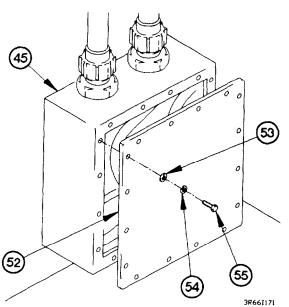
NOTE

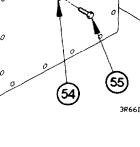
Install plastic cable ties as required.

- (21) Install wire 1499N (41) on terminal board TB4 (39).
- (22) Tighten screw (42) on terminal board TB4 (39).
- (23) Install wire 1499P (43) on terminal board TB4 (39).
- (24) Tighten screw (44) on terminal board (39).



- (25) Route wires 424 (26) and wire 425 (27) in 110/208 vac power entry panel (45).
- (26) Install wire 424 terminal lug (46) on positive field telephone binding post (47) with nut (48).
- (27) Install wire 425 terminal lug (49) on negative field telephone binding post (50) with nut (51).

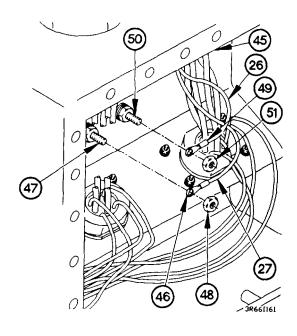




NOTE

Perform step (29) on van body serial numbers 001 through 190.

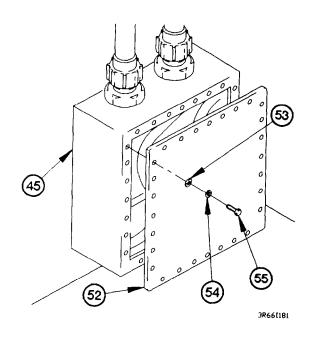
(29) Install cover (52) on 110/208 vac power entry panel (45) with 28 washers (53), lockwashers (54), and screws (55).



NOTE

Perform step (28) on van bodies serial number 191 and higher.

(28) Install cover (52) on 110/208 vac power entry panel (45) with 16 washers (53), lockwashers (54), and screws (55).



TM 9-2320-365-20-4

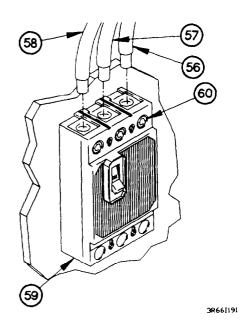
16-66. M1079 110/208 VAC POWER DISTRIBUTION PANEL REPLACEMENT (CONT)

- (30) Install wires 502 (56), 501 (57), and 500 (58) on 200 amp AC circuit breaker (59).
- (31) Tighten three screws (60) in 200 amp AC circuit breaker (59).

c. Follow-On Maintenance.

- (1) Install 15/20/30 and 50 amp AC circuit breakers (para 16-64).
- (2) Check for proper operation of AC electrical system (TM 9-2320-365-10).

End of Task.



This task covers:

- a. Removal
- b. Disassembly
- c. Assembly

- d. Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Tool Kit, Electrical (Item 42, Appendix C) Heater, Gun Type, Electric (Item 20, Appendix B)

Materials/Parts

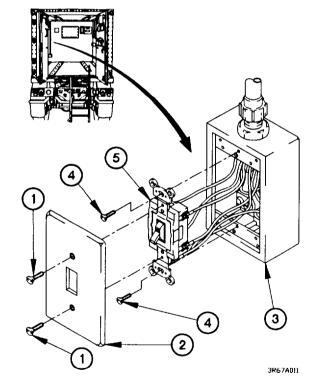
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)

Ties, Cable, Plastic (Item 63, Appendix D) Insulation Sleeving, Electrical (Item 31, Appendix D)

Splice, Conductor (Item 261, Appendix G) Lockwasher (32) (Item 82, Appendix G) Lockwasher (8) (Item 92, Appendix G)

a. Removal.

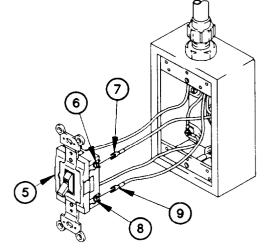
- (1) Remove two screws (1) and cover (2) from outlet box (3).
- (2) Remove two screws (4) and switch S35 (5) from outlet box (3).



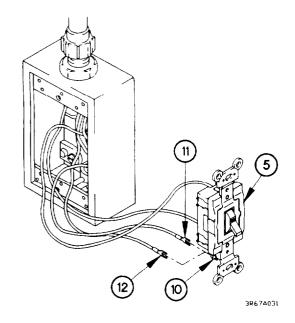
NOTE

Tag wires and connection points prior to disconnecting.

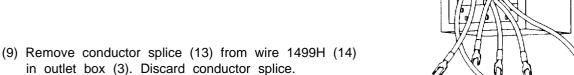
- (3) Loosen screw (6) on switch S35 (5).
- (4) Remove wire 415 terminal lug (7) from switch S35 (5).
- (5) Loosen screw (8) on switch S35 (5).
- (6) Remove wire 415A terminal lug (9) from switch S35 (5).

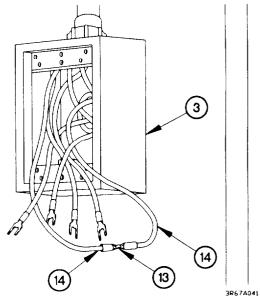


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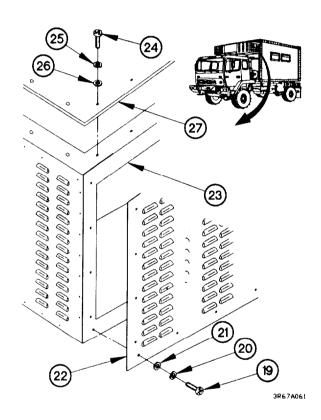


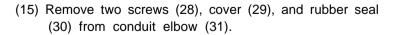
- (7) Loosen screw (10) on switch S35 (5).
- (8) Remove wire 3085X terminal lug (11) and 3085Z terminal lug (12) from switch S35 (5).

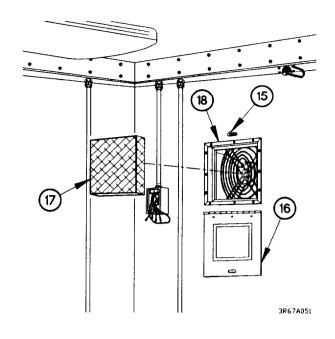




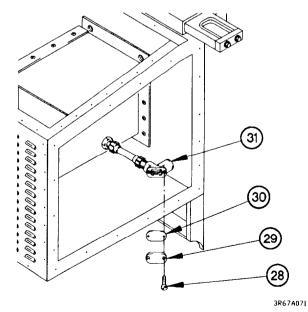
- (10) Unlatch stud base fastener (15).
- (11) Open vent cover (16).
- (12) Remove air filter (17) from filter frame (18).



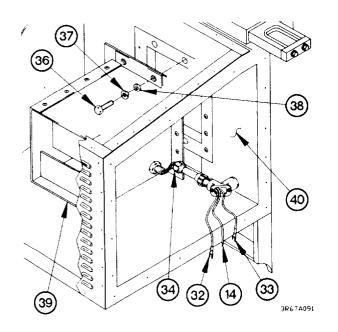


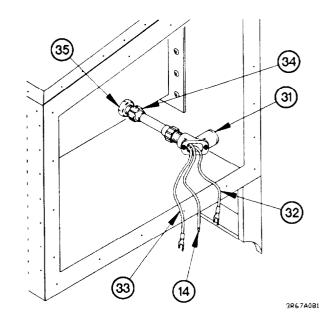


- (13) Remove 15 screws (19), lockwashers (20), washers (21), and roadside cover (22) from pod frame (23). Discard lockwashers.
- (14) Remove 13 screws (24), lockwashers (25), washers (26) and roadside top front cover (27) from pod frame (23). Discard lockwashers.

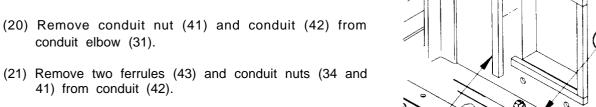


- (16) Remove wires 3085X (32), 415A (33), and 1499H (14) from conduit elbow (31).
- (17) Remove conduit nut (34) from conduit connector (35).

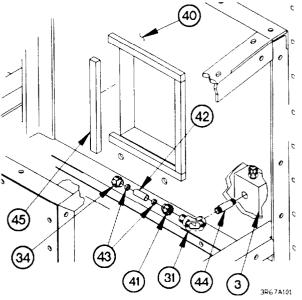




- (18) Remove four screws (36), lockwashers (37), washers (38), and fan shroud (39) from van body wall (40). Discard lockwashers.
- (19) Remove wires 3085X (32), 415A (33), and 1499H (14) from conduit nut (34).



- (22) Remove conduit elbow (31) from pipe nipple (44).
- (23) Remove pipe nipple (44) from outlet box (3).
- (24) Remove four seals (45) from van body wall (40).
- (25) Remove sealing compound from van body wall (40).

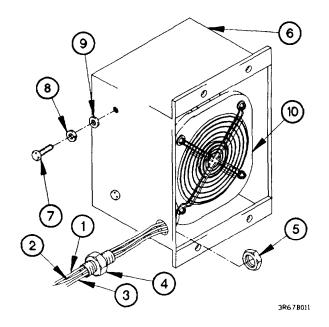


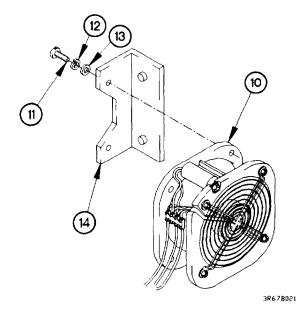
b. Disassembly.

NOTE

Remove plastic cable ties as required.

- (1) Remove wires 3085X, 415A, and 1499H (1, 2, and 3) from conduit connector (4).
- (2) Remove locknut (5) and conduit connector (4) from fan shroud (6).
- (3) Remove four screws (7), lockwashers (8), washers (9), and fan assembly (10) from fan shroud (6). Discard lockwashers.

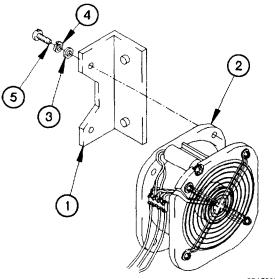




(4) Remove four screws (11), lockwashers (12), washers (13), and two brackets (14) from fan assembly (10). Discard lockwashers.

c. Assembly.

(1) Install two brackets (1) on fan assembly (2) with four washers (3), lockwashers (4), and screws (5).

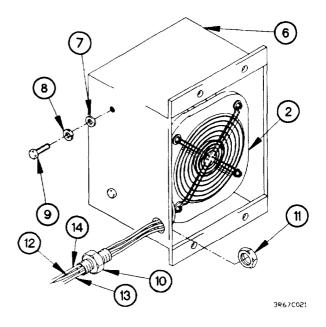


3R67C011

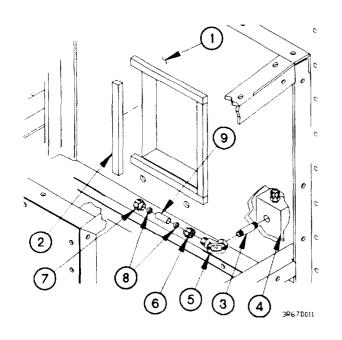
NOTE

Install plastic cable ties as required.

- (2) Install fan assembly (2) in fan shroud (6) with four washers (7), lockwashers (8), and screws (9).
- (3) Install conduit connector (10) in fan shroud (6) with locknut (11).
- (4) Route wires 1499H, 415A, and 3085X (12, 13, and 14) through conduit connector (10).



d. Installation.

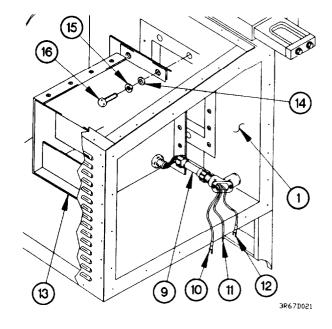


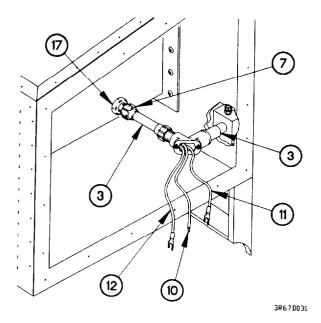
WARNING

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.

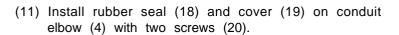
- (1) Apply sealing compound to van body wall (1).
- (2) Install four seals (2) on van body wall (1).
- (3) Install pipe nipple (3) on outlet box (4).
- (4) Install conduit elbow (5) on pipe nipple (3).
- (5) Position conduit nuts (6 and 7) and ferrules (8) on conduit (9).
- (6) Position conduit nut (6) and conduit (9) on conduit elbow (5).

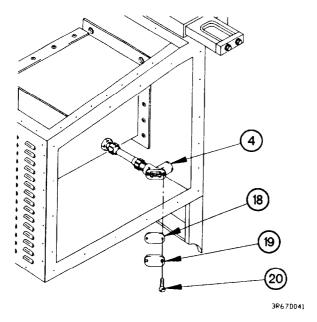
- (7) Route wires 1499H (10), 415A (11), and 3085X (12) through conduit (9).
- (8) Install fan shroud (13) on van body wall (1) with four washers (14), lockwashers (15), and screws (16).



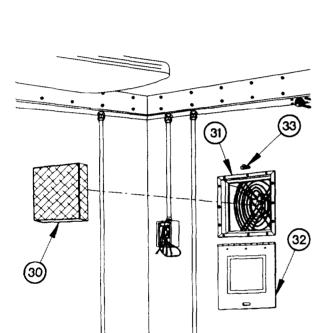


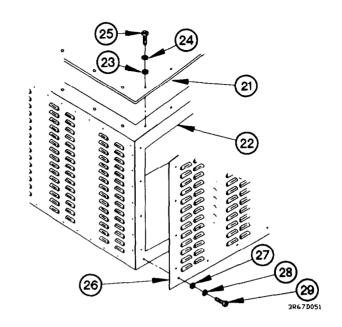
- (9) Install conduit nut (7) on conduit connector (17).
- (10) Route wires 1499H (10), 415A (11), and 3085X (12) through pipe nipple (3).





- (12) Install roadside top front cover (21) on pod frame (22) with 13 washers (23), lockwashers (24) and screws (25).
- (13) Install roadside cover (26) on pod frame (22) with 15 washers (27), lockwashers (28), and screws (29).

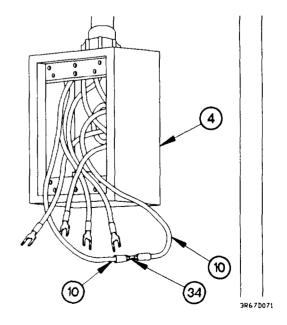




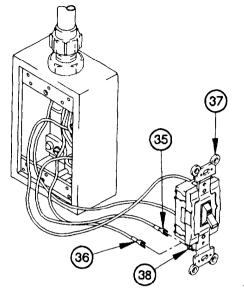
- (14) Install air filter (30) in filter frame (31).
- (15) Close vent cover (32).
- (16) Latch stud base fastener (33).

(17) Connect wires 1499H (10) with conductor splice (34) in outlet box (4).

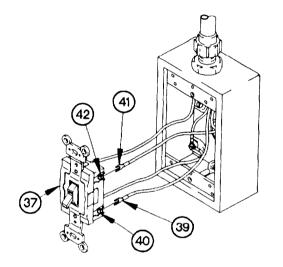
3R67D061



- (18) Install wire 3085X terminal lug (35) and wire 3085Z terminal lug (36) on switch S35 (37).
- (19) Tighten screw (38) on switch S35 (37).



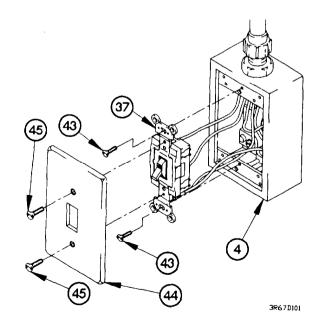
3R67D08I



- (20) Install wire 415A terminal lug (39) on switch S35 (37).
- (21) Tighten screw (40) on switch S35 (37).
- (22) Install wire 415 terminal lug (41) on switch S35 (37).
- (23) Tighten screw (42) on switch S35 (37).

3R67D091

- (24) Install switch S35 (37) in outlet box (4) with two screws (43).
- (25) Install cover (44) on outlet box (4) with two screws (45).



TM 9-2320-365-20-4

16-67. M1079 FAN ASSEMBLY REPLACEMENT/REPAIR

e. Follow-On Maintenance.

- (1) Connect AC power (TM 9-2320-365-10).
- (2) Connect batteries (para 7-48).
- (3) Operate van fan check proper operation (TM 9-2320-365-10).
- (4) Close LH and RH door (TM 9-2320-365-10).

End of Task.

16-68. M1079 110/208 VAC POWER IN/OUT CABLE REPLACEMENT

This task covers:

- a. 110/208 VAC POWER IN Connector Removal
- b. 110/208 VAC POWER IN Connector Installation
- c. 110/208 VAC POWER OUT Connector Removal
- d . 110/208 VAC POWER OUT Connector Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Field telephone wires disconnected, if required, (TM 9-2320-365-10).

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48).

LH and RH door opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

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

Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Ties, Cable, Plastic (Item 76, Appendix D)

Sealing Compound (Item 67, Appendix D)
Lockwasher (16) (van bodies serial number 191
and higher) (Item 77, Appendix G)

Lockwasher (28) (van body serial numbers 001 through 190) (Item 77, Appendix G)

Lockwasher (8) (Item 78, Appendix G)

Lockwasher (2) (Item 85, Appendix G)

Personnel Required

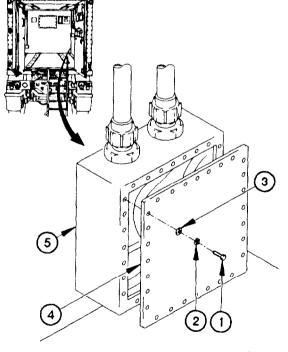
(2)

a. 110/208 VAC POWER IN Connector Removal.

NOTE

Perform step (1) on van body serial numbers 001 through 190.

(1) Remove 28 screws (1), lockwashers (2), washers (3), and cover (4) from 110/208 vac power entry panel (5). Discard lockwashers.



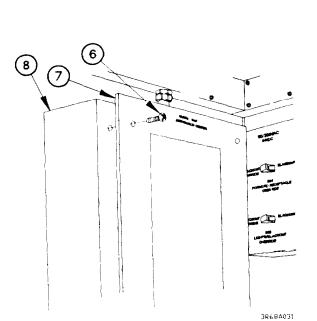
3R68A011

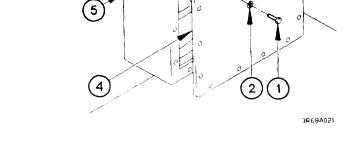
16-68. M1079 110/208 VAC POWER IN/OUT CABLE REPLACEMENT (CONT)

NOTE

Perform step (2) on van bodies serial number 191 and higher.

(2) Remove 16 screws (1), lockwashers (2), washers (3), and cover (4) from 110/208 vac power entry panel (5). Discard lockwashers.

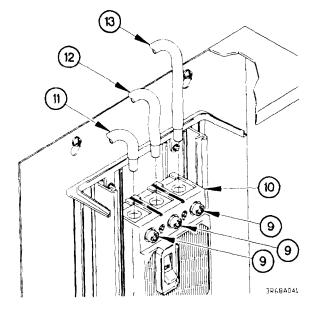




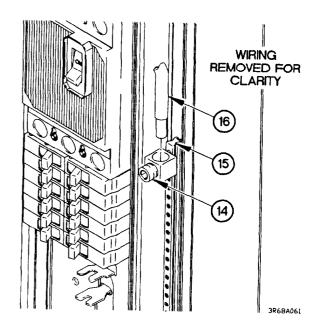
(3) Remove six screws (6) and cover (7) from 110/208 VAC POWER DISTRIBUTION PANEL (8).

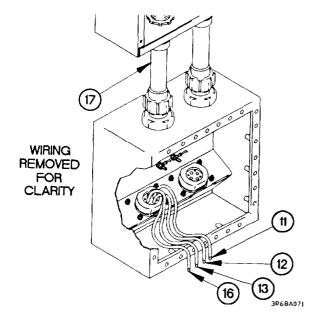
NOTE

- Tag wires and Connection points prior to disconnecting.
- Remove plastic cable ties as required.
- (4) Loosen three screws (9) in 200 amp AC circuit breaker (10).
- (5) Remove wires 500 (11), 501 (12), and 502 (13) from 200 amp AC circuit breaker (10).



- (6) Loosen screw (14) on terminal board TB4 (15).
- (7) Remove wire 1499P (16) from terminal board TB4 (15).



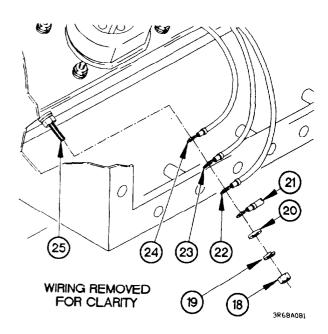


(8) Remove wires 500 (11), 501 (12), 502 (13), and 1499P (16) from conduit (17).

NOTE

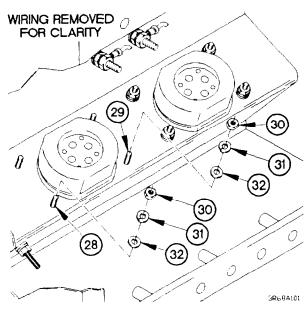
Step (9) may require removal of five other terminal lugs.

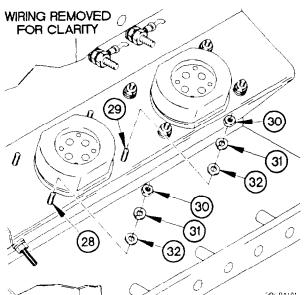
(9) Remove nut (18), lockwasher (19), washer (20), wire 3085N terminal lug (21), wire 3085P terminal lug (22), wire 3085Q terminal lug (23), and wire 3085R terminal lug (24), from chassis ground lug (25). Discard lockwasher.



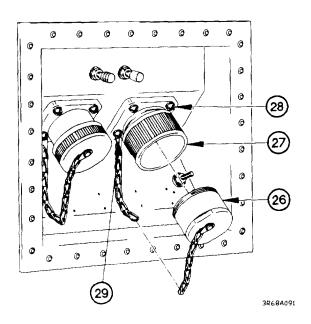
16-68. M1079 110/208 VAC POWER IN/OUT CABLE REPLACEMENT (CONT)

- (10) Remove dust cap (26) from 110/208 vac POWER IN connector (27).
- (11) Remove sealing compound from heads of three screws (28), screw (29), and edges of 110/208 vac POWER IN connector (27).





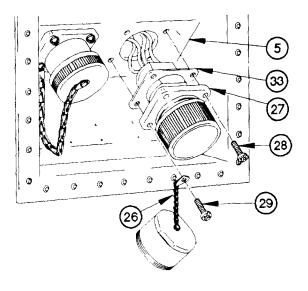
- (13) Remove three screws (28) from 110/208 vac POWER IN connector (27).
- (14) Remove screw (29), dust cap (26), 110/208 vac POWER IN connector (27), and gasket (33) from 110/208 vac power entry panel (5).



NOTE

Steps (12) through (14) require the aid of an assistant.

(12) Remove four nuts (30), lockwashers (31), and washers (32) from three screws (28) and screw (29). Discard lockwashers.



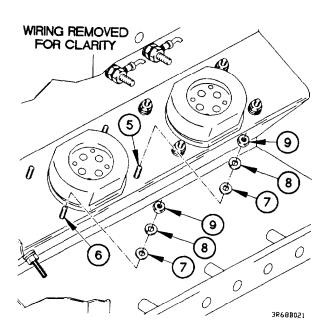
3R68A111

b. 110/208 VAC POWER IN Connector Installation.

NOTE

Steps (1) through (4) require the aid of an assistant.

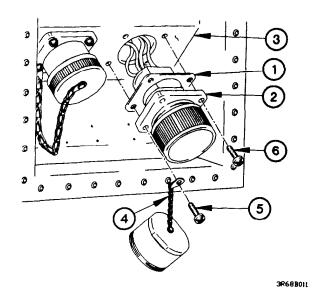
- (1) Install gasket (1) and 110/208 vac POWER IN connector (2) on 110/208 power entry panel (3) with dust cap (4) and screw (5).
- (2) Install three screws (6) in 110/208 vac POWER IN connector (2).



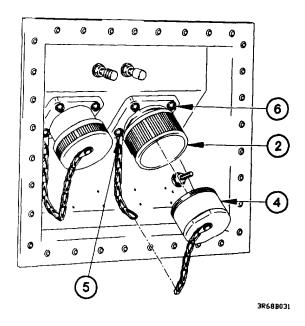
WARNING

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.

- (4) Apply sealing compound on heads of screws (5 and 6) and edges of 110/208 vac POWER IN connector (2).
- (5) Install dust cap (4) on 110/208 vac POWER IN connector (2).



(3) Install four washers (10), lockwashers (11) and nuts (12) on screw (5) and three screws (6).

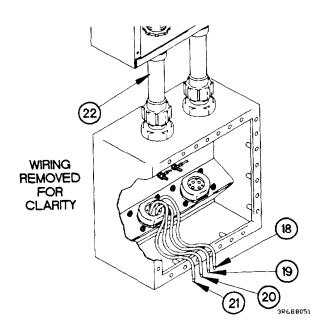


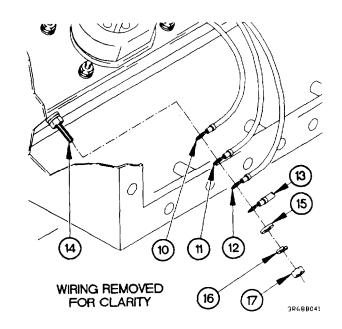
16-68. M1079 110/208 VAC POWER IN/OUT CABLE REPLACEMENT (CONT)

NOTE

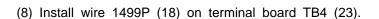
Step (6) may require installation of five additional terminal lugs.

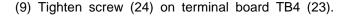
(6) Install wire 3085R terminal lug (10), wire 3085Q terminal lug (11), wire 3085P terminal lug (12) and wire 3085N terminal lug (13) on chassis ground lug (14) with washer (15), lockwasher (16), and nut (17).

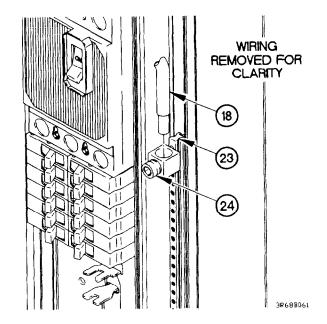




(7) Route wires 1499P (18), 502 (19), 501 (20), and 500 (21) through conduit (22).



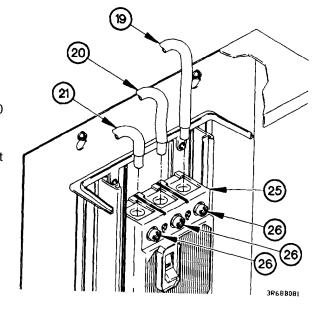


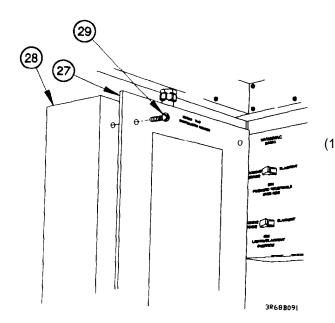


NOTE

Install plastic cable ties as required.

- (10) Install wires 502 (19), 501 (20), and 500 (21) in 200 amp AC circuit breaker (25).
- (11) Tighten three screws (26) in 200 amp AC circuit breaker (25).



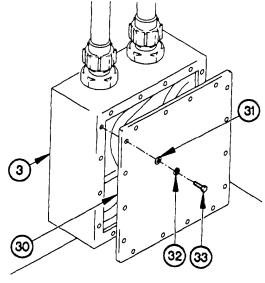


Install cover (27) on 110/208 VAC POWER DISTRIBUTION PANEL (28) with six screws (29).

NOTE

Perform step (13) on van bodies serial number 191 and higher.

(13) Install cover (30) on 110/208 vac power entry panel (3) with 16 washers (31), lockwashers (32), and screws (33).



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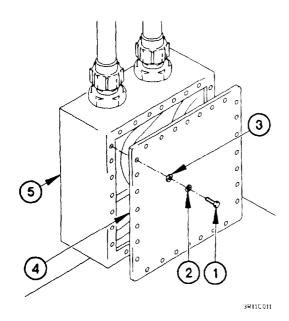
16-68. M1079 110/208 VAC POWER IN/OUT CABLE REPLACEMENT (CONT)

NOTE

Perform step (14) on van body serial numbers 001 through 190.

(14) Install cover (30) on 110/208 vac power entry panel (3) with 28 washers (31), lockwashers (32), and screws (33).

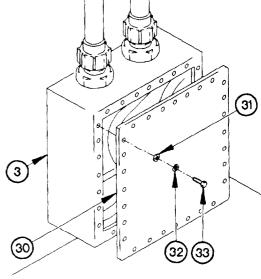
c. 110/208 VAC POWER OUT Connector Removal.



NOTE

Perform step (1) on van body serial numbers 001 through 190.

(1) Remove 28 screws (1), lockwashers (2), washers (3), and cover (4) from 110/208 power entry panel (5). Discard lockwashers.

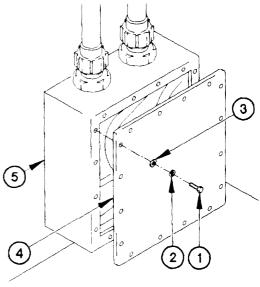


3R6BB111

NOTE

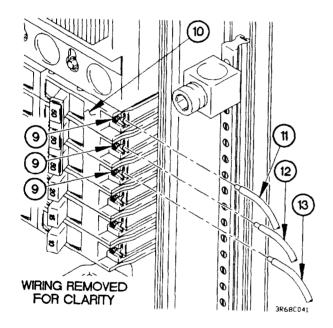
Perform step (2) on van bodies serial number 191 and higher.

(2) Remove 16 screws (1), lockwashers (2), washers (3), and cover (4) from 110/208 power entry panel (5). Discard lockwashers.

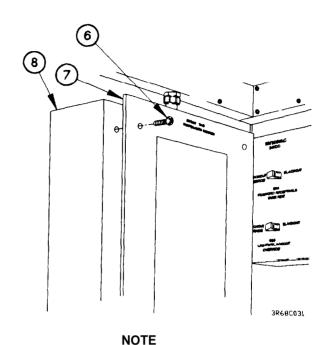


3P11C021

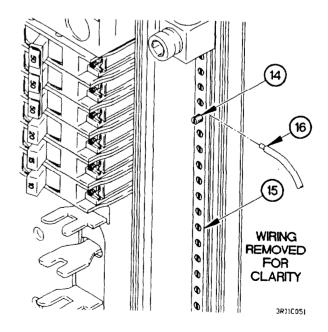
(3) Remove six screws (6) and cover (7) from 110/208 VAC POWER DISTRIBUTION PANEL (8).



- (6) Loosen screw (14) in terminal board TB4 (15).
- (7) Remove wire 1499N (16) from terminal board TB4 (15).

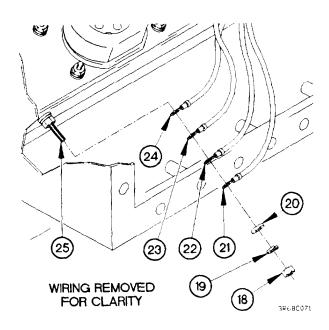


- Tag wires and connection points prior to disconnecting.
- Remove plastic cable ties as required.
- (4) Loosen three screws (9) in 50 amp AC circuit breaker (10).
- (5) Remove wires 500AA (11), 501BB (12), and 502CC (13) from 50 amp AC circuit breaker (10).



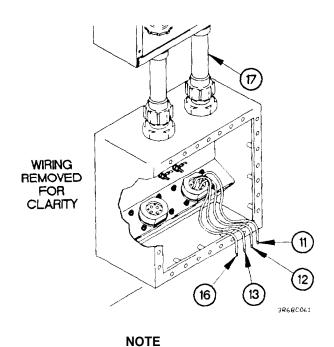
16-68. M1079 110/208 VAC POWER IN/OUT CABLE REPLACEMENT (CONT)

(8) Remove wires 500AA (11), 501BB (12), 502CC (13), and 1499N (16) from conduit (17).



(10) Remove dust cap (26) from 110/208 vac POWER OUT connector (27).

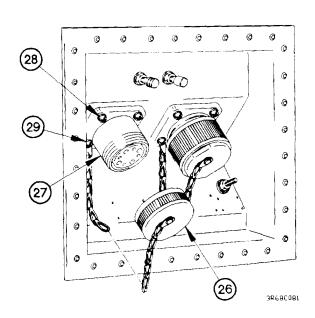
(11) Remove sealing compound from heads of screws (28 and 29) and edges of 110/208 vac POWER OUT connector (27).



Step (9) may require removal of five other

(9) Remove nut (18), lockwasher (19), washer (20), wire 3085S terminal lug (21), wire 3085T terminal lug (22), wire 3085U terminal lug (23), and wire 3085V terminal lug (24) from chassis ground lug (25). Discard lockwasher.

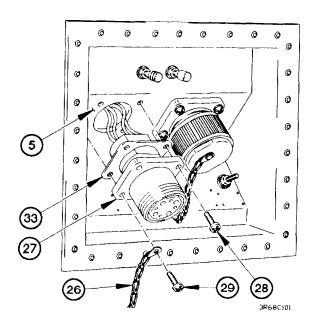
terminal lugs.



NOTE

Steps (12) through (14) require the aid of an assistant.

(12) Remove four nuts (30), lockwashers (31). and washers (32) from three screws (28) and screw (29). Discard lockwashers.



WIRING REMOVED FOR CLARITY 3R68C091

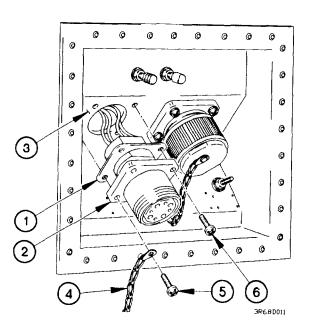
- (13) Remove three screws (28) from 110/208 vac POWER OUT connector (27).
- (14) Remove screw (29), dust cap (26), 110/208 vac POWER OUT connector (27) and gasket (33) from 110/208 vac power entry panel (5).

d. 110/208 VAC POWER OUT Connector Installation.

NOTE

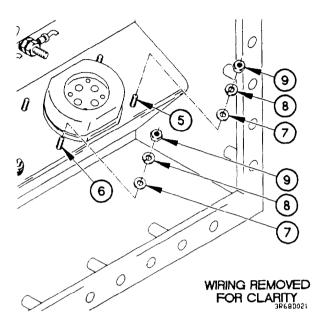
Steps (1) through (4) require the aid of an assistant.

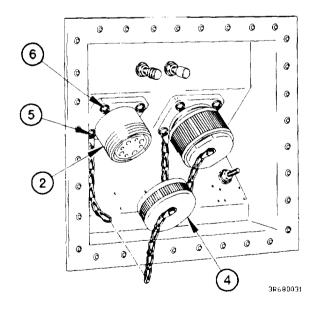
- (1) Install gasket (1) and 110/208 vac POWER OUT connector (2) on 110/208 vac power entry panel (3) with dust cap (4) and screw (5).
- (2) Install three screws (6) in 110/208 vac POWER OUT connector (2).



16-68. M1079 110/208 VAC POWER IN/OUT CABLE REPLACEMENT (CONT)

(3) Install four washers (7), lockwashers (8), and nuts (9) on screw (5) and three screws (6).





WARNING

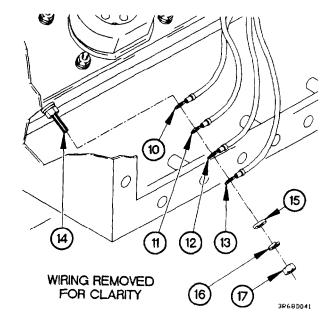
Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in a well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure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

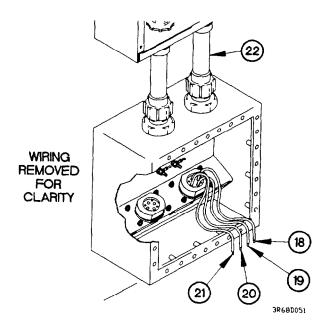
- (4) Apply sealing compound on heads of screws (5 and 6) and edges of 110/208 vac POWER OUT connector (2).
- (5) Install dust cap (4) on 110/208 vac POWER OUT connector (2).

NOTE

Step (6) may require installation of five additional terminal lugs.

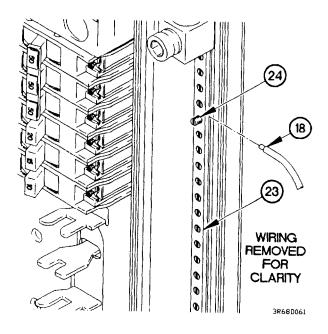
(6) Install wire 3085V terminal lug (10), wire 3085U terminal lug (11), wire 3085T terminal lug (12), and wire 3085S terminal lug (13) on chassis ground lug (14) with washer (15), lockwasher (16), and nut (17).





(7) Route wires 1499N (18), 502CC (19), 501BB (20), and 500AA (21) through conduit (22).

- (8) Install wire 1499N (18) in terminal board TB4 (23).
- (9) Tighten screw (24) in terminal board TB4 (23).

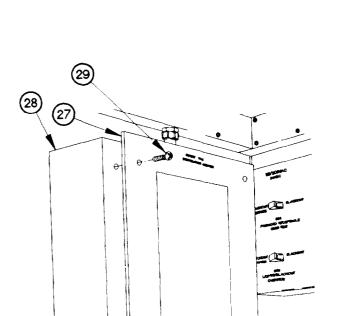


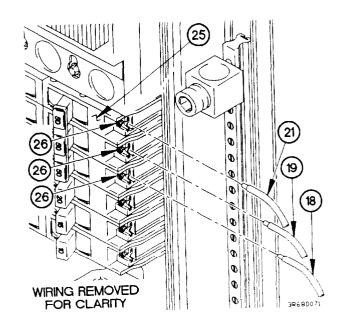
16-68. M1079 110/208 VAC POWER IN/OUT CABLE REPLACEMENT (CONT)

NOTE

Install plastic cable ties as required.

- (10) Position wires 502CC (18), 501BB (19), and 500AA (20) in 50 amp AC circuit breaker (25).
- (11) Tighten three screws (26) in 50 amp AC Circuit breaker (25).





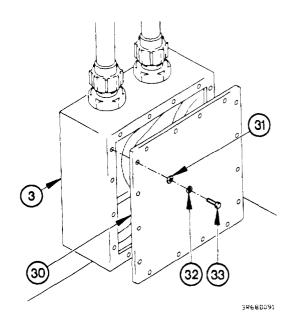
(12) Install cover (27) on 110/208 VAC POWER DISTRIBUTION PANEL (28) with six screws (29).



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Perform step (13) on van bodies serial number 191 and higher.

(13) Install cover (30) on 110/208 vac power entry panel (3) with 16 washers (31), lockwashers (32), and screws (33).



NOTE

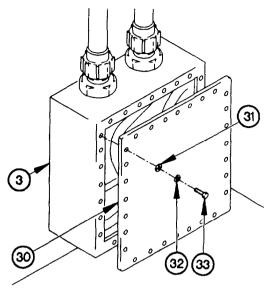
Perform step (14) on van body serial numbers 001 through 190.

(14) Install cover (30) on 110/208 vac power entry panel (3) with 28 washers (31), lockwashers (32), and screws (33).

e. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Connect field telephone wires, if required (TM 9-2320-365-10).
- (4) Check for proper operation of 110/208 VAC power system (TM 9-2320-365-10).
- (5) Close LH and RH doors (TM 9-2320-365-10).

End of Task.



3R68D101

16-69. M1079 CHASSIS GROUND LUG REPLACEMENT

This task covers:

a. Removal

Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48).

Ground wire removed, if installed (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

Ties, Cable, Plastic (Item 76, Appendix D) Lockwasher (16) (van bodies serial number 191 and higher) (Item 77, Appendix G) Lockwasher (28) ban body serial numbers 001 through 190) (Item 77, Appendix G) Lockwasher (4) (Item 81, Appendix G)

Personnel Required

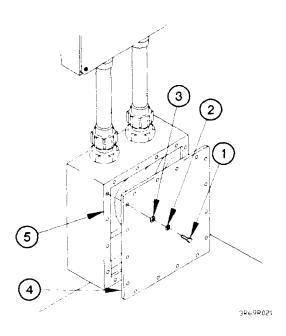
(2)

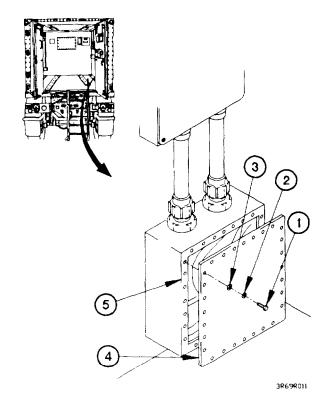
a. Removal.

NOTE

Perform step (1) on van body serial numbers 001 through 190.

(1) Remove 28 screws (1), lockwashers (2), washers (3), and cover (4) from 110/208 vac power entry panel (5). Discard lockwashers.





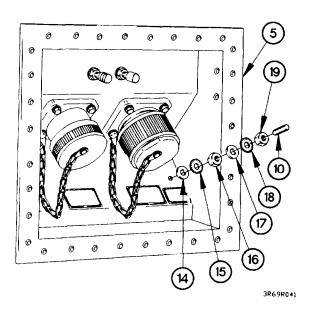
NOTE

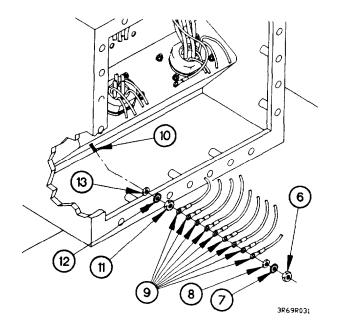
Perform step (2) on van bodies serial number 191 and higher.

(2) Remove 16 screws (1), lockwashers (2), washers (3), and cover (4) from 110/208 vac power entry panel (5). Discard lockwashers.

NOTE

- Steps (3) and (4) require the aid of an assistant.
- Note position of terminal lugs prior to removal.
- Remove plastic cable ties as required.
- (3) Remove nut (6), lockwasher (7), washer (8), and nine terminal lugs (9) from chassis ground lug (10). Discard lockwasher.
- (4) Remove nut (11), lockwasher (12), and washer (13) from chassis ground lug (10). Discard lockwasher.

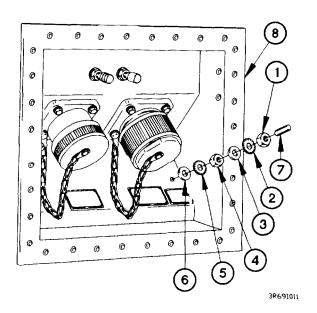




- (5) Remove chassis ground lug (10) from 110/208 vac power entry panel (5).
- (6) Remove washer (14), lockwasher (15), nut (16), washer (17), lockwasher (18), and nut (19) from chassis ground lug (10).

b. Installation.

- (1) Install nut (1), lockwasher (2), washer (3), nut (4), lockwasher (5), and washer (6) on chassis ground lug (7).
- (2) Install chassis ground lug (7) in 110/208 vac power entry panel (8).



16-69. M1079 CHASSIS GROUND LUG REPLACEMENT (CONT)

NOTE

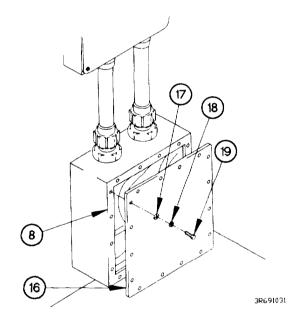
Steps (3) and (4) require the aid of an assistant.

(3) Install washer (9), lockwasher (10), and nut (11) on chassis ground lug (7).

NOTE

Install plastic cable ties as required.

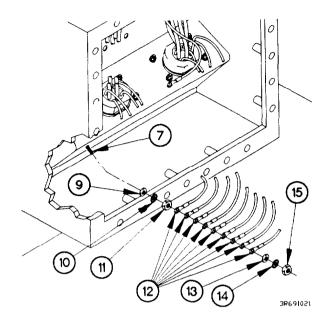
(4) Install nine terminal lugs (12) on chassis ground lug (7) with washer (13), lockwasher (14), and nut (15).



NOTE

Perform step (6) on van body serial numbers 001 through 190.

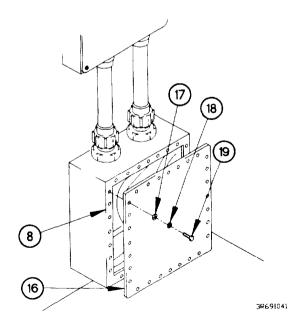
(6) Install cover (16) on 110/208 vac power entry panel (8) with 28 washers (17), lockwashers (18), and screws (19).



NOTE

Perform step (5) on van bodies serial number 191 and higher.

(5) Install cover (16) on 110/208 vac power entry panel (8) with 16 washers (17), lockwashers (18), and screws (19).



c. Follow-On Maintenance.

- (1) Connect ground wire, if installed (TM 9-2320-365-10).
- (2) Connect batteries (para 7-48).
- (3) Connect AC power (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).

End of Task.

16-70. M1079 110/208 VAC POWER ENTRY PANEL AND CONDUIT REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Chassis ground lug removed (para 16-69). 110/208 VAC POWER IN/OUT cables removed (para 16-68).

Field telephone binding posts removed (para 16-51).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Drill, Portable, Electric (Item 7, Appendix C)
Drill Set, Twist (Item 6, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Tool Kit, Blind Rivet (Item 43, Appendix C)

Materials/Parts

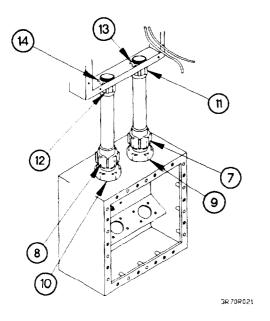
Sealing Compound (Item 67, Appendix D) Rivet, Blind (32) (Item 229, Appendix G)

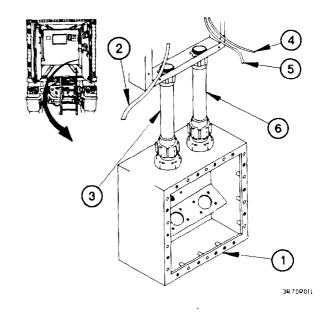
Personnel Required

(2)

a. Removal.

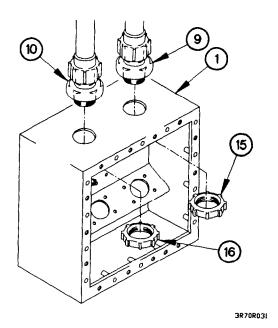
- (1) Remove sealing compound from edges of 110/208 vac power entry panel (1).
- (2) Remove wire 3085Y (2) from conduit (3).
- (3) Remove wires 424 (4) and 425 (5) from conduit (6).





- (4) Loosen conduit nuts (7 and 8) on conduit connectors (9 and 10).
- (5) Loosen conduit nuts (11 and 12) on conduit connectors (13 and 14).

- (6) Remove locknuts (15 and 16) from conduit connectors (9 and 10).
- (7) Lift conduit connectors (9 and 10) clear of 110/208 vac power entry panel (1).



(8) Remove sealing compound from edges of 110/208 vac



power entry panel (1).

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

NOTE

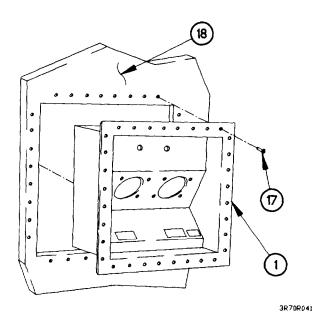
Steps (9 and 10) require the aid of an assistant.

(9) Remove 32 rivets (17) from 110/208 vac power entry panel (1).



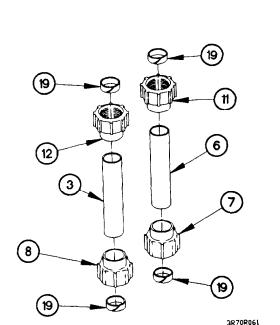
Start at one corner and slowly work 110/208 vac power entry panel loose. Failure to comply may result in damage to equipment.

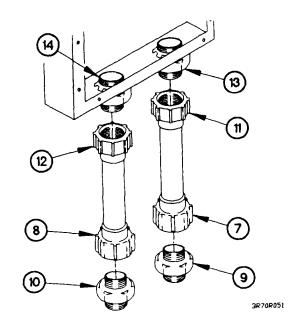
- (10) Remove 110/208 vac power entry panel (1) from van body wall (18).
- (11) Remove sealing compound from van body wall (18).



16-70. M1079 110/208 VAC POWER ENTRY PANEL AND CONDUIT REPLACEMENT (CONT)

- (12) Remove conduit nuts (11 and 12) from conduit connectors (13 and 14).
- (13) Remove conduit nuts (7 and 8) from conduit connectors (9 and 10).

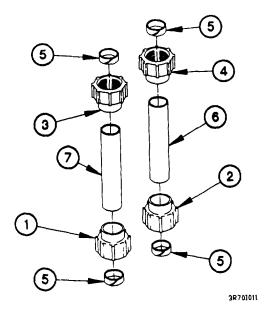




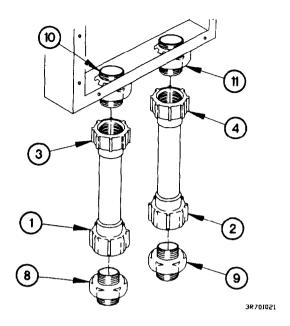
(14) Remove four ferrules (19) and conduit nuts (7, 8, 11, and 12) from conduits (3 and 6).

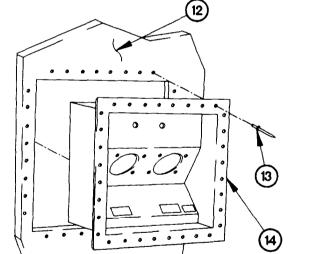
b. Installation.

(1) Install conduit nuts (1, 2, 3, and 4) and four ferrules (5) on conduits (6 and 7).



- (2) Position conduit nuts (1 and 2) on conduit connectors (8 and 9).
- (3) Position conduit nuts (3 and 4) on conduit connectors (10 and 11).





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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.

(4) Apply sealing compound to van body wall (12).

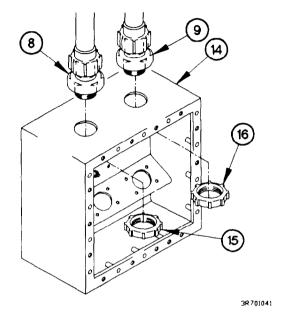
CAUTION

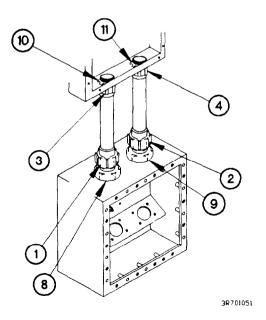
Coat all rivets with sealing compound prior to installation. Failure to comply may result in damage to equipment.

- (5) Apply sealing compound to 32 rivets (13).
- (6) Install 110/208 vac power entry panel (14) in van body wall (12) with 32 rivets (13).
- (7) Apply sealing compound on edges of 110/208 vac power entry panel (14).

16-70. M1079 110/208 VAC POWER ENTRY PANEL AND CONDUIT REPLACEMENT (CONT)

(8) Install conduit connectors (8 and 9) in 110/208 vac power entry panel (14) with locknuts (15 and 16).





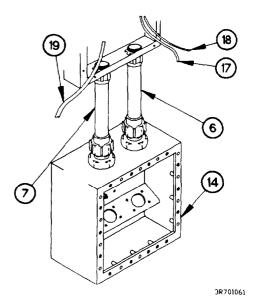
- (9) Tighten conduit nuts (3 and 4) on conduit connectors (10 and 11).
- (10) Tighten conduit nuts (1 and 2) on conduit connectors (8 and 9).

- (11) Route wires 425 (17) and 424 (18) through conduit (6).
- (12) Route wire 3085Y (19) through conduit (7).

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.

(13) Apply sealing compound around 110/208 vac power entry panel (14).



c. Follow-On Maintenance.

- (1) Install field telephone binding posts (para 16-51).
- (2) Install 110/208 VAC POWER IN/OUT cables (para 16-68).
- (3) Install chassis ground lug (para 16-69).

End of Task.

16-71. M1079 12/24 VDC POWER ENTRY CONNECTOR REPLACEMENT

This task covers:

a. Removal

Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

AC power disconnected (TM 9-2320-365-10). Batteries disconnected (para 7-48). LH and RH doors opened (115 degrees) (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Heater, Gun Type, Electric (Item 20, Appendix B) Soldering Iron, Electric (Item 72, Appendix B)

Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Insulation Sleeving, Electrical (Item 31, Appendix D)
Solder, Tin Alloy (Item 70, Appendix D)
Sealing Compound (Item 67, Appendix D)
Lockwasher (Item 79 Appendix G)
Lockwasher (4) (van bodies serial number 191 and higher) (Item 77, Appendix G)
Lockwasher (16) (van body serial numbers 001 through 190) (Item 77, Appendix G)
Gasket (Item 29, Appendix G)

Personnel Required

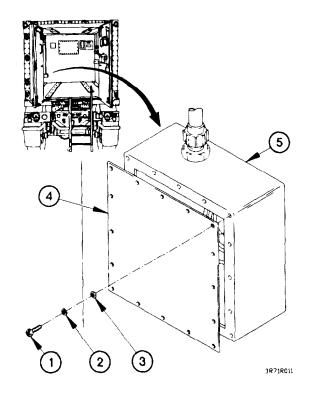
(2)

a. Removal.

NOTE

Perform step (1) on van body serial numbers 001 through 190.

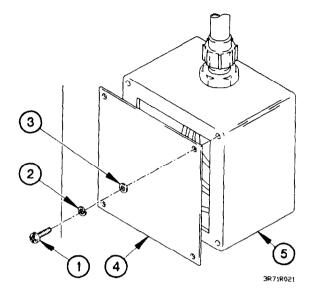
(1) Remove 16 screws (1), lockwashers (2), washers (3), and cover (4) from 12/24 vdc power entry panel (5). Discard lockwashers.

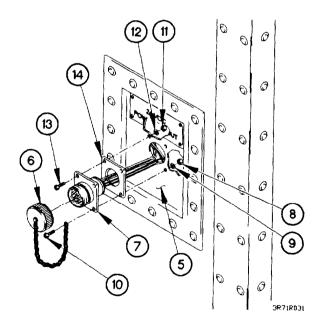


NOTE

Perform step (2) on van bodies serial number 191 and higher.

(2) Remove four screws (1), lockwashers (2), washers (3), and cover (4) from 12/24 vdc power entry panel (5). Discard lockwashers.





- (3) Remove dust cap (6) from 12/24 vdc power entry connector J173 (7).
- (4) Remove sealing compound from edges of 12/24 vdc power entry connector J173 (7).

NOTE

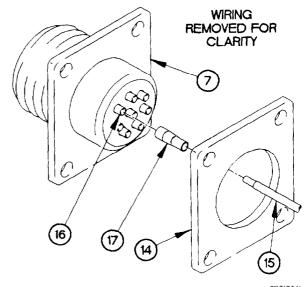
Steps (5) and (6) require the aid of an assistant.

- (5) Remove nut (8), lockwasher (9), dust cap (6), and screw (10) from 12/24 vdc power entry connector J173 (7). Discard lockwasher.
- (6) Remove three nuts (11), lockwashers (12), screws (13), 12/24 vdc power entry connector J173 /7), and gasket (14) from 12/24 vdc power entry panel (5). Discard lockwashers.

16-71. M1079 12/24 VDC POWER ENTRY CONNECTOR REPLACEMENT (CONT)

NOTE

- All wires on 12/24 vdc power entry connector are removed the same way. One wire shown.
- Tag wires and connection points prior to disconnecting.
- Refer to Table 16-9. M1079 Connector J173 Pin Letters and Wire Numbers for details.
- (7) Remove wire (15) from 12/24 vdc power entry connector J173 pin (16).
- (8) Remove insulation sleeving (17) from wire (15).
- (9) Perform steps (7) and (8) on remaining wires.
- (10) Remove gasket (14) from 12/24 vdc power entry connector J173 (7). Discard gasket.

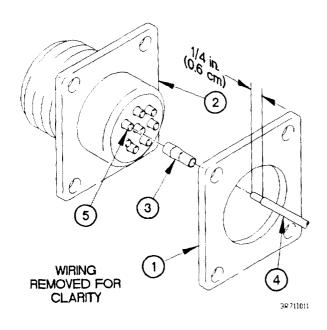


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Table 16-9. M1079 Connector J173 Pin Letters and Wire Numbers

PIN LETTER	Α	В	С	D	E	F	G	Н
WIRE NUMBER	2010	3086	2040	3086	UNUSED	2006	1507	1507

b. Installation.



NOTE

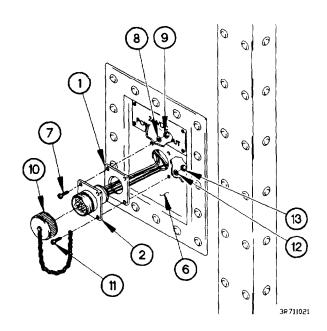
- All wires on 12/24 vdc power entry connector are installed the same way. One wire shown.
- Refer to Table 16-9. M1079 Connector J173 Pin Letters and Wire Numbers for details.
- (1) Position gasket (1) on 12/24 vdc power entry connector J173 (2).
- (2) Position insulation sleeving (3) on wire (4).
- (3) Remove approximately 1/4 in. (0.6 cm) of insulation from wire (4).
- (4) Solder wire (4) to 12/24 vdc power entry connector J173 pin (5).
- (5) Shrink insulation sleeving (3) on wire (4) and 12/24 vdc power entry connector J173 pin (5).

(6) Perform steps (2) through (5) on remaining wires.

NOTE

Steps (7) and (8) require the aid of an assistant.

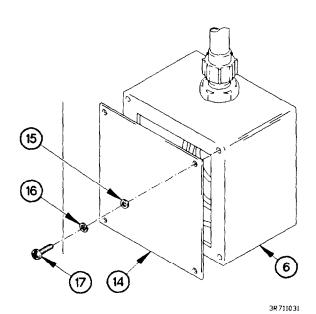
- (7) Install gasket (1) and 12/24 vdc power entry connector J173 (2) in 12/24 vdc power entry panel (6) with three screws (7), lockwashers (8), and nuts (9).
- (8) Install dust cap (10) on 12/24 vdc power entry connector J173 (2) with screw (11), lockwasher (12), and nut (13).



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.

- (9) Apply sealing compound on edges of 12/24 vdc power entry connector J173 (2).
- (10) Install dust cap (10) on 12/24 vdc power entry connector J173 (2).



NOTE

Perform step (11) on van bodies serial number 191 and higher.

(11) Install cover (14) on 12/24 vdc power entry panel (6) with four washers (15), lockwashers (16), and screws (17).

16-71. M1079 12/24 VDC POWER ENTRY CONNECTOR REPLACEMENT (CONT)

NOTE

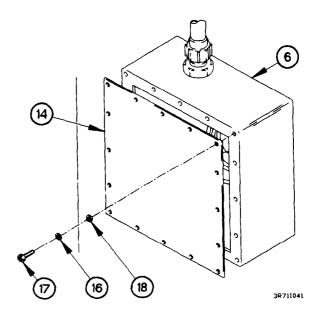
Perform step (12) on van body serial numbers 001 through 190.

(12) Install cover (14) on 12/24 vdc power entry panel (6) with 16 washers (18), lockwashers (16), and screws (17).

c. Follow-On Maintenance.

- (1) Connect batteries (para 7-48).
- (2) Connect AC power (TM 9-2320-365-10).
- (3) Check for proper operation of 12/24 vdc system (TM 9-2320-365-10).
- (4) Close LH and RH doors (TM 9-2320-365-10).

End of Task.



16-72. M1079 12/24 VDC POWER ENTRY PANEL AND CONDUIT REPLACEMENT

This task covers:

a. Removal

b. Installation

C. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

12/24 vdc power entry connector removed (para 16-71).

Tools and Special Tools

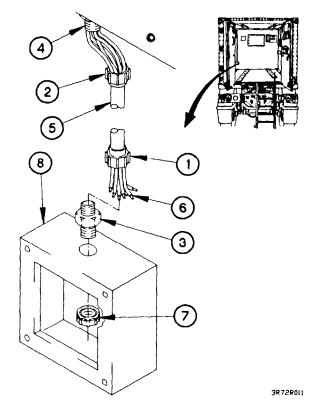
Tool Kit, Genl Mech (Item 44, Appendix C)
Drill, Portable, Electric (Item 7, Appendix C)
Drill Set, Twist (Item 6, Appendix C)
Goggles, Industrial (Item 15, Appendix C)

Materials/Parts

Sealing Compound (Item 67, Appendix D) Rivet, Blind (22) (van body serial numbers 001 through 190) (Item 229, Appendix G) Rivet, Blind (14) (van bodies serial number 191 and higher) (Item 229, Appendix G) Lockwasher (16) (Item 76, Appendix G)

a. Removal.

- (1) Remove conduit nuts (1 and 2) from conduit connectors (3 and 4).
- (2) Remove conduit (5) and wires (6) from conduit connector (3).
- (3) Remove locknut (7) and conduit connector (3) from 12/24 vdc power entry panel (8).
- (4) Remove sealing compound from edges of 12/24 vdc power entry panel (8).



16-72. M1079 12/24 VDC POWER ENTRY PANEL AND CONDUIT REPLACEMENT (CONT)

(5) Remove sealing compound from edges of 12/24 vdc power entry panel (8).

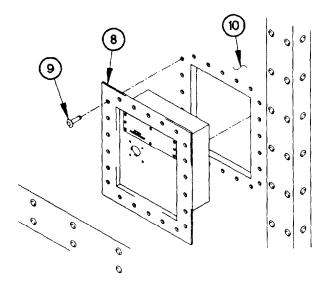
WARNING

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

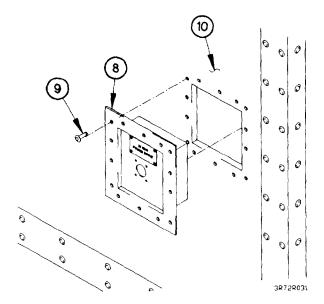
NOTE

Perform step (6) on van body serial numbers 001 through 190.

(6) Remove 22 rivets (9) and 12/24 vdc power entry panel (8) from van body wall (10).



3R72R021

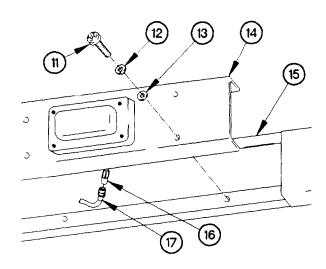


- (9) Remove 16 screws (11), lockwashers (12), washers (13), and raceway cover (14) from raceway (15). Discard lockwashers.
- (10) Disconnect emergency light connector J166 (16) from connector P166 (17).

NOTE

Perform step (7) on van bodies serial number 191 and higher.

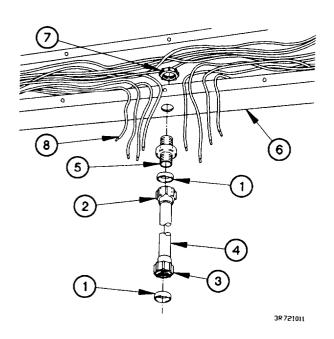
- (7) Remove 14 rivets (9) and 12/24 vdc power entry panel (8) from van body wall (10).
- (8) Remove sealing compound from van body wall (10).



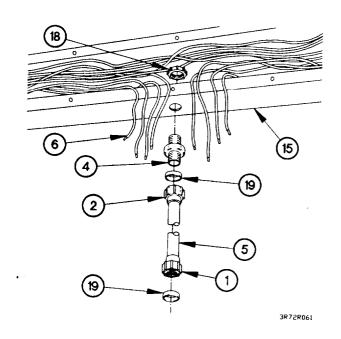
3R72R051

- (11) Remove conduit (5) from wires (6).
- (12) Remove wires (6) from conduit connector (4).
- (13) Remove locknut (18) and conduit connector (4) from raceway (15).
- (14) Remove conduit nuts (1 and 2) and two ferrules (19) from conduit (5).

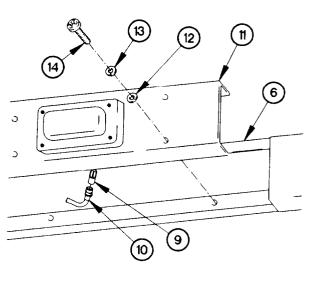
b. Installation.



- (5) Connect emergency light connector J166 (9) to connector P166 (10).
- (6) Install raceway cover (11) on raceway (6) with 16 washers (12), lockwashers (13), and screws (14).



- (1) Install two ferrules (1) and conduit nuts (2 and 3) on conduit (4).
- (2) Install conduit connector (5) in raceway (6) with locknut (7).
- (3) Route wires (8) through conduit connector (5).
- (4) Route wires (8) through conduit (4).



3R721021

16-72. M1079 12/24 VDC POWER ENTRY PANEL AND CONDUIT REPLACEMENT (CONT)

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.

CAUTION

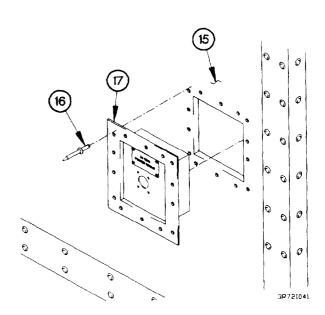
Coat all rivets with sealing compound prior to installation. Failure to comply may result in damage to equipment.

(7) Apply sealing compound on van body wall (15) and rivets (16).

NOTE

Perform step (8) on van bodies serial number 191 and higher.

(8) Install 12/24 vdc power entry panel (17) on van body wall (15) with 14 rivets (16).



NOTE

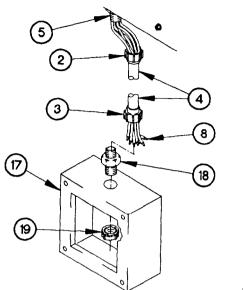
Perform step (9) on van body serial numbers 001 through 190.

- (9) Install 12/24 vdc power entry panel (17) on van body wall (15) with 22 rivets (16).
- (10) Apply sealing compound on edges of 12/24 vdc power entry panel (17).

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.

- (11) Apply sealing compound on edges of 12/24 vdc power entry panel (17).
- (12) Install conduit connector (18) in 12/24 vdc power entry panel (17) with locknut (19).
- (13) Install wires (8) and conduit (4) in conduit connector (16).
- (14) Tighten nuts (2 and 3) on conduit connectors (5 and 16).



3R721061

c. Follow-On Maintenance.

Install 12/24 vdc power entry connector (para 16-71).

End of Task.

16-73. M1079 VAN PREPARATION FOR AIR TRANSPORT

This task covers:

a. Preparation

b. Recovery

INITIAL SETUP

Equipment Conditions

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

WARNING

- Heavy objects/loads, such as tool boxes and heavy parts, must always be carried on the floor with the weight distributed as equally as possible between left and right sides of M1079 van. Failure to comply decreases the stability of the M1079 van and will increase the likelihood of a rollover.
- Heavy cabinets must always be mounted as low as possible with the weight distributed as equally
 as possible between left and right sides of M1079 van. Remember to consider the weight of the
 items that will be stored in the cabinets. Failure to comply decreases the stability of the M1079
 van and will increase the likelihood of a rollover.
- Always keep in mind, when placing items inside the M1079 van, that heavier items must always
 be positioned as low as possible and the weight distributed as equally as possible between left and
 right sides of M1079 van. Failure to comply decreases the stability of the M1079 van and will
 increase the likelihood of a rollover.

a. Preparation.

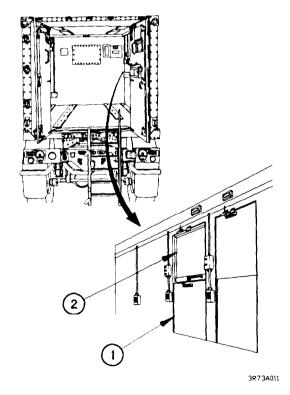
CAUTION

PRIOR TO SHIPMENT BY RAIL, PROPERLY STOW, TIE DOWN, AND OR BRACE ALL LOOSE ITEMS AND OTHER ITEMS INSIDE THE VAN. Failure to comply may result in damage to equipment.

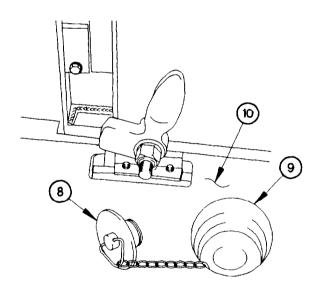
NOTE

All four blackout shields are closed the same way. Right side front shield shown.

(1) Raise and latch blackout shield (1) on van window (2).



- (2) Close blackout shield (3) on right hand side door (4).
- (3) Open vent cover (5) on right hand side door (4).
- (4) Open fan vent cover (6) on front interior van wall (7).



3R73A031

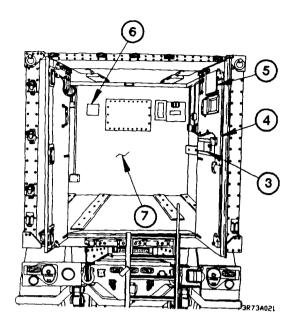
b. Recovery

(1) Install M1079 van body on chassis (para 16-19).

NOTE

Both drain plugs are tightened the same way. Rear drain plug shown.

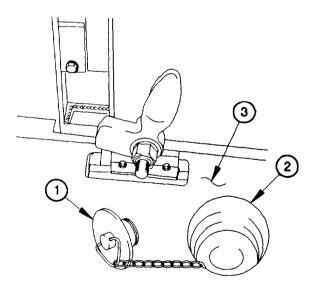
(2) Tighten drain plug (1) in drain hole (2) on van floor (3).



NOTE

Both drain plugs are loosened the same way. Rear drain plug shown.

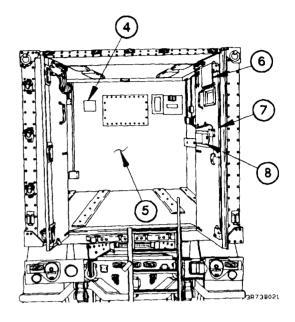
- (5) Loosen drain plug (8) from drain hole (9) on van floor (10).
- (6) Remove M1079 van body from chassis (para 16-19).

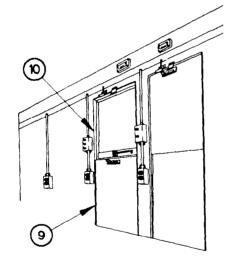


3R73B011

16-73. VAN PREPARATION FOR AIR TRANSPORT (CONT)

- (3) Close fan vent cover (4) on front interior wall (5).
- (4) Close vent cover (6) on right hand side door (7).
- (5) Open blackout shield (8) on right hand side door (7).





NOTE

All four blackout shields are opened the same way. Right side front shield shown.

(6) Lower blackout shield (9) on van window (10).

End of Task.

3R73B031

CHAPTER 17 11K SELF-RECOVERY WINCH (SRW) MAINTENANCE

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Section II. MAINTENANCE PROCEDURES	17-2
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Section I. INTRODUCTION

17-1. INTRODUCTION

This chapter contains maintenance instructions for replacing 11K SRW components authorized by the Maintenance Allocation Chart (MAC) at the Unit Maintenance level.

Section II. MAINTENANCE PROCEDURES

17-2. 11K SELF-RECOVERY WINCH (SRW) FRONT ROLLER FAIRLEAD REPLACEMENT

This task covers:

a. Removal

c. Follow-On Maintenance

b. Installation

INITIAL SETUP

Equipment Conditions

Front bumper and gravel deflector removed (para 14-2).

Cab raised (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Gun, Lubricating (Item 16, Appendix C) Goggles, Industrial (Item 15, Appendix C)

Materials/Parts

Grease, Automotive and Artillery (GAA) (Item 23, Appendix D)

Pin, Spring (2) (Item 210, Appendix G) Pin, Spring (Item 211, Appendix G)

WARNING

Wear appropriate eye protection when working under vehicle due to the possibility of falling debris. Failure to comply may result in injury to personnel.

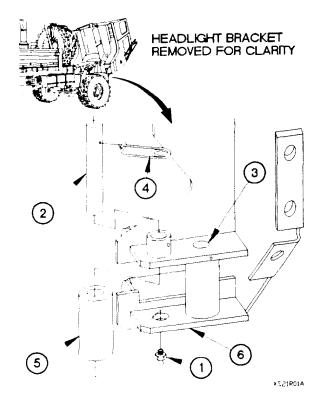
a. Removal.

- (1) Remove two lubrication fittings (1) from straight shafts (2 and 3).
- (2) Remove retaining pin (4) from straight shaft (2).

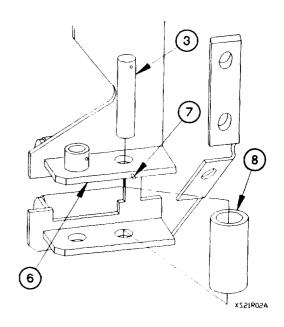
CAUTION

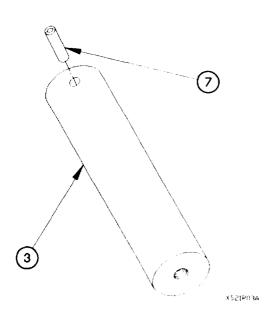
Use a brass punch to remove straight shafts. Failure to comply may damage threads for lubrication fittings.

(3) Remove straight shaft (2) and roller fairlead (5) from bracket (6).



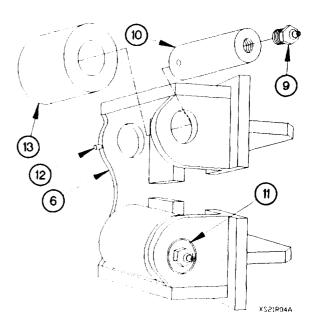
- (4) Drive spring pin (7) through bracket (6) and into straight shaft (3) as far as possible.
- (5) Remove straight shaft (3) and roller fairlead (8) from bracket (6).





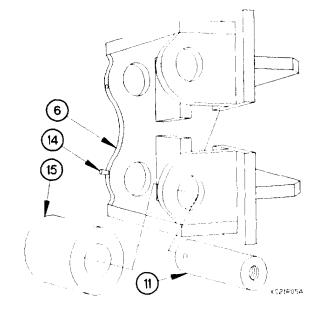
(6) Remove spring pin (7) from straight shaft (3). Discard spring pin.

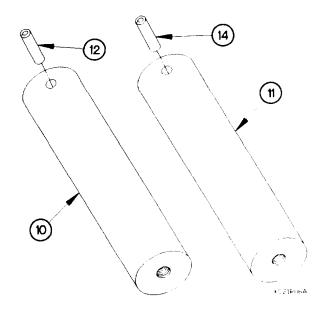
- (7) Remove two lubrication fittings (9) from straight shafts (10 and 11).
- (8) Drive spring pin (12) through bracket (6) and into straight shaft (10) as far as possible.
- (9) Remove straight shaft (10) and roller fairlead (13) from bracket (6).



17-2. 11K SELF-RECOVERY WINCH (SRW) FRONT ROLLER FAIRLEAD REPLACEMENT (CONT)

- (10) Drive spring pin (14) through bracket (6) and into straight shaft (11) as far as possible.
- (11) Remove straight shaft (11) and roller fairlead (15) from bracket (6).

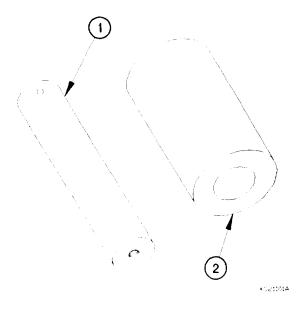




(12) Remove spring pins (12 and 14) from straight shafts (10 and 11). Discard spring pins.

b. Installation.

(1) Apply grease to straight shaft (1) and inside of roller fairlead (2).



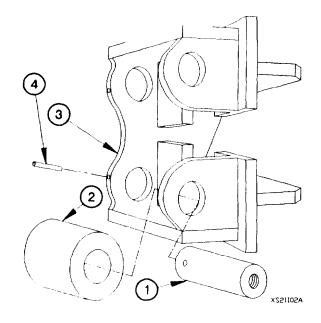
CAUTION

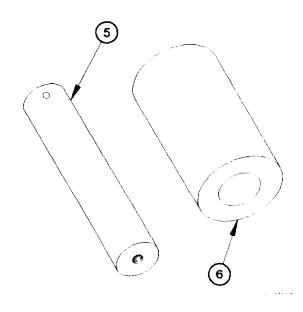
Use a brass punch to install straight shafts. Failure to comply may damage threads for lubrication fittings.

NOTE

Align hole in straight shaft with hole in bracket.

- (2) Install roller fairlead (2) and straight shaft (1) in bracket (3).
- (3) Install spring pin (4) through bracket (3) and straight shaft (1).



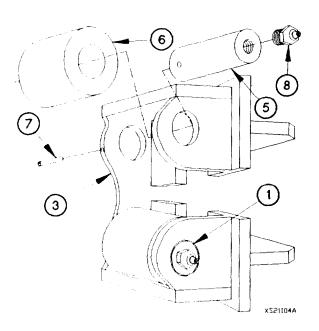


(4) Apply grease to straight shaft (5) and inside of roller fairlead (6).

NOTE

Align hole in straight shaft with hole in bracket.

- (5) Install roller fairlead (6) and straight shaft (5) in bracket (3).
- (6) Install spring pin (7) through bracket (3) and straight shaft (5).
- (7) Install two lubrication fittings (8) in straight shafts (1 and 5).

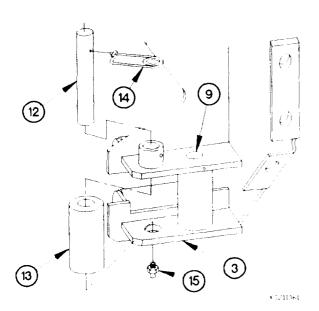


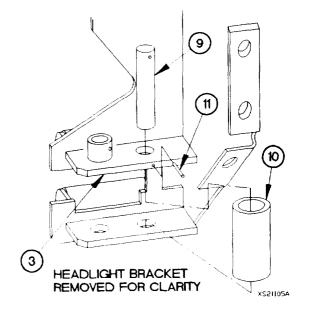
17-2. 11K SELF-RECOVERY WINCH (SRW) FRONT ROLLER FAIRLEAD REPLACEMENT (CONT)

(8) Apply grease to straight shaft (9) and inside of roller fairlead (10).

NOTE

- Install straight shaft so that lubrication fitting is toward bottom.
- Align hole in straight shaft with hole in bracket.
- (9) Install roller fairlead (10) and straight shaft (9) in bracket (3).
- (10) Install spring pin (11) through bracket (3) and straight shaft (9).





(11) Apply grease to straight shaft (12) and inside of roller fairlead (13).

NOTE

Install straight shaft so that lubrication fitting is toward bottom.

(12) Install roller fairlead (13) and straight shaft (12) in bracket (3).

NOTE

Align hole in straight shaft with hole in bracket.

- (13) Install retaining pin (14) through bracket (3) and straight shaft (12).
- (14) Install two lubrication fittings (15) in straight shafts (9 and 12).

c. Follow-On Maintenance.

- (1) Lower cab (TM 9-2320-365-10).
- (2) Install front bumper and gravel deflector (para 14-2).
- (3) Lubricate front rollers (Appendix H).

17-3. 11K SELF-RECOVERY WINCH (SRW) REAR ROLLER FAIRLEAD REPLACEMENT

This task covers:

a. Removal

b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). 11K SRW cable removed from rear roller fairlead, if required (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Wrench, Torque, 0-600 lb-ft (Item 59, Appendix C)
Gun, Lubricating (Item 16, Appendix C)
Wrench, Set Socket (Item 48, Appendix C)

Materials/Parts

Grease, Automotive and Artillery (GAA) (Item 23 Appendix D)

Nut, Self-Locking (4) (Item 144, Appendix G) Nut, Self-Locking (2) (Item 140, Appendix G) Pin, Spring (3) (Item 210, Appendix G) Pin, Spring (Item 211, Appendix G)

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)

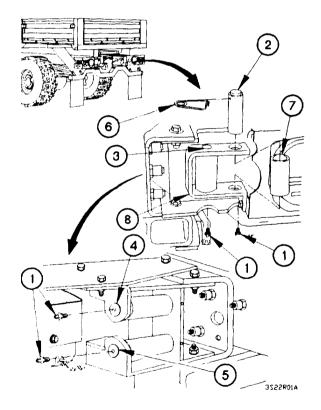
a. Removal.

- (1) Remove four lubrication fittings (1) from straight shafts (2, 3, 4, and 5).
- (2) Remove retaining pin (6) from straight shaft (2).

CAUTION

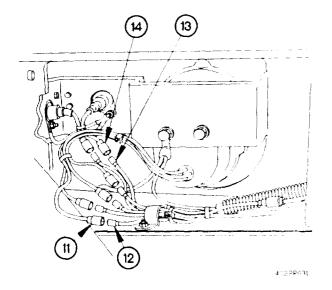
Use a brass punch to remove straight shafts. Failure to comply may damage threads for lubrication fittings.

(3) Remove straight shaft (2) and fairlead roller (7) from roller bracket (8).

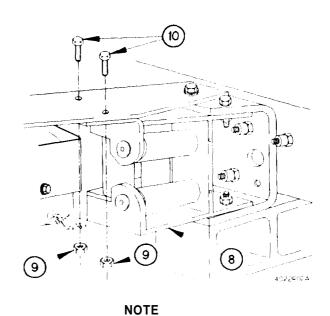


17-3. 11K SELF-RECOVERY WINCH (SRW) REAR ROLLER FAIRLEAD REPLACEMENT (CONT)

(4) Remove two self-locking nuts (9) and screws (10) from roller bracket (8). Discard self-locking nuts.

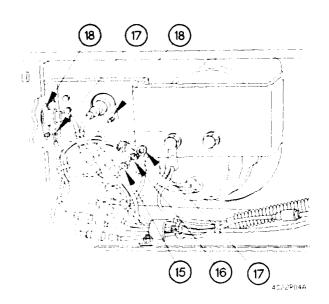


(7) Remove two nuts (15), lockwashers (16), and terminal lugs TL19 and TL20 (17) from marker lights (18). Discard lockwashers.

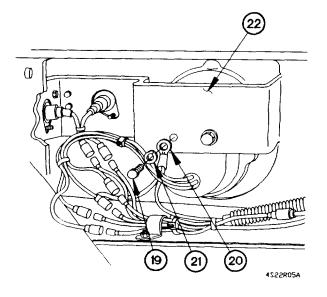


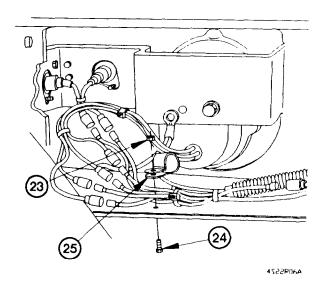
Tag wires and connection points prior to disconnecting.

- (5) Disconnect four connectors 21, 24, 460-461-22, and 23 (11) from connectors P64, P62, P61, and P63 (12).
- (6) Disconnect two connectors P88 and P89 (13) from connectors 489 (14).



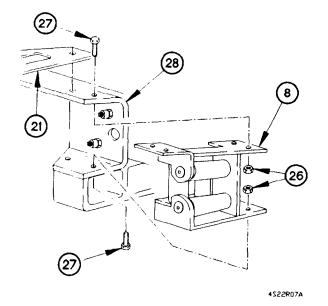
(8) Remove screw (19), terminal lug TL21 (20), and washer (21) from taillight bracket (22).





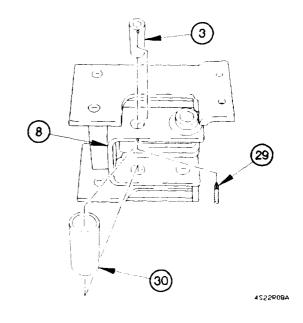
(9) Remove self-locking nut (23) and screw (24) from clamp (25). Discard self-locking nut.

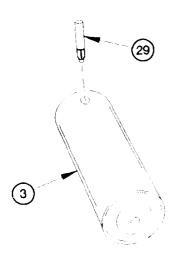
(10) Remove four self-locking nuts (26), screws (27), taillight bracket (21), and roller bracket (8) from mounting bracket (28). Discard self-locking nuts.



17-3. 11K SELF-RECOVERY WINCH (SRW) REAR ROLLER FAIRLEAD REPLACEMENT (CONT)

- (11) Drive spring pin (29) in straight shaft (3) as far as possible.
- (12) Remove straight shaft (3) and fairlead roller (30) from roller bracket (8).

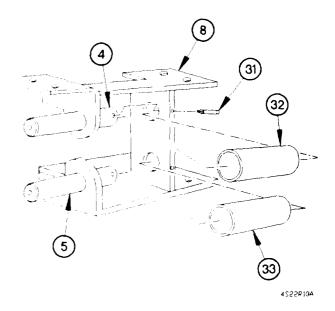




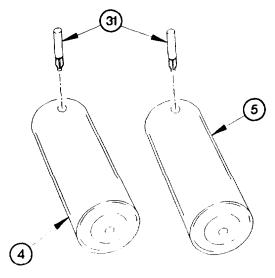
(13) Remove spring pin (29) from straight shaft (3). Discard spring pin.

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- (14) Drive two spring pins (31) in straight shafts (4 and 5).
- (15) Remove straight shafts (4 and 5) and fairlead rollers (32 and 33) from roller bracket (8).

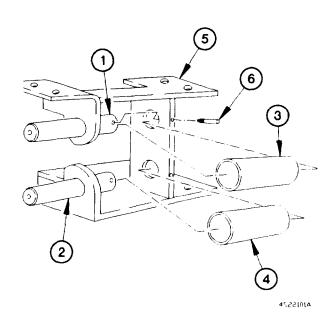


(16) Remove two spring pins (31) from straight shafts (4 and 5). Discard spring pins.



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b. Installation.



(1) Apply grease to straight shafts (1 and 2) and inside of fairlead rollers (3 and 4).

CAUTION

Use a brass punch to install straight shafts. Failure to comply may result in damage to threads for lubrication fittings.

NOTE

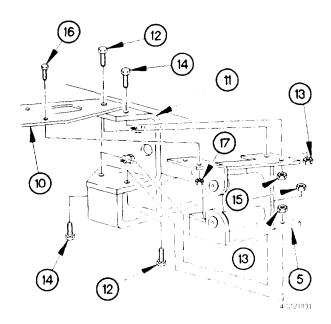
- Install straight shafts so that lubrication fittings are toward curbside of vehicle.
- Align hole in straight shafts with holes in bracket.
- (2) Install fairlead rollers (3 and 4) and straight shafts (1 and 2) in roller bracket (5).
- (3) Install two spring pins (6) through roller bracket (5) and straight shafts (1 and 2).

17-3. 11K SELF-RECOVERY WINCH (SRW) REAR ROLLER FAIRLEAD REPLACEMENT (CONT)

(4) Apply grease to straight shaft (7) and inside of fairlead roller (8).

NOTE

- Install straight shaft so that lubrication fitting faces toward bottom.
- Align hole in straight shaft with hole in bracket.
- (5) Install fairlead roller (8) and straight shaft (7) in roller bracket (5).
- (6) Install spring pin (9) through roller bracket (5) and straight shaft (7).



(7) Position roller bracket (5) and taillight bracket (10) on mounting bracket (11) with two screws (12) and self-locking nuts (13).
 (8) Position two screws (14) in mounting bracket (11)

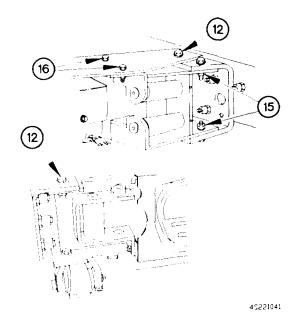
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(b)

(5)

- with two self-locking nuts (15).
- (9) Position two screws (16) in taillight bracket (10) with two self-locking nuts (17).



- (10) Tighten two screws (12) to 149-182 lb-ft (202-247 N•m).
- (11) Tighten two self-locking nuts (15) to 149-182 lb-ft (202-247 N•m).
- (12) Tighten two screws (16) to 26-32 lb-ft (35-43 N•m).



NOTE

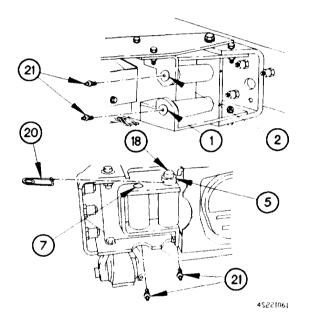
If straight shaft is being replaced, a replacement spring pin must be installed.

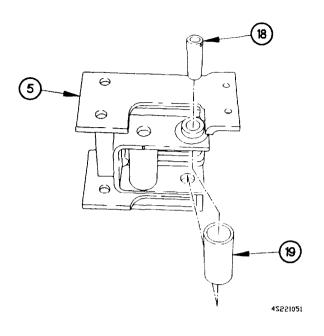
(13) Apply grease to straight shaft (18) and inside of fairlead roller (19).

NOTE

Install straight shaft so that lubrication fitting faces toward bottom.

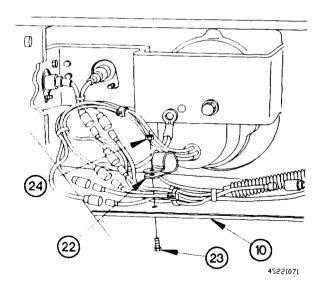
(14) Install fairlead roller (19) and straight shaft (18) in roller bracket (5).





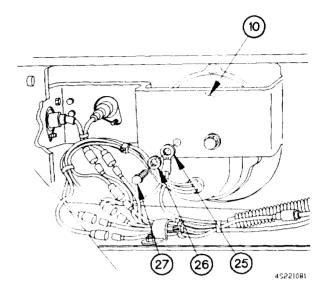
- (15) Install retaining pin (20) through roller bracket (5) and straight shaft (18).
- (16) Install four lubrication fittings (21) in straight shafts (1, 2, 7, and 18).

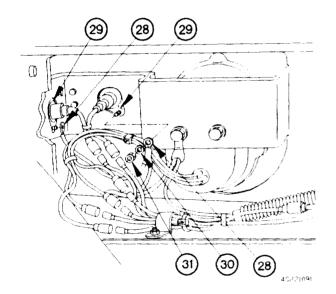
(17) Install Clamp (22) on taillight bracket (10) with screw (23) and self-locking nut (24).



17-3. 11K SELF-RECOVERY WINCH (SRW) REAR ROLLER FAIRLEAD REPLACEMENT (CONT)

(18) Install terminal lug TL21 (25) on taillight bracket (10) with washer (26) and screw (27).



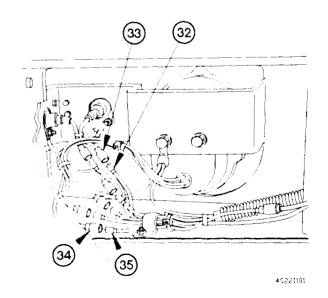


(19) Install terminal lugs TL19 and TL20 (28) on two marker lights (29) with lockwashers (30) and screws (31).

- (20) Connect connectors P88 and P89 (32) to connectors 489 (33).
- (21) Connect connectors 21, 24, 460-461-22, and 23 (34) to connectors P64, P62, P61, a nd P63 (35).

c. Follow-On Maintenance.

- (1) Install 11K SRW cable in rear roller fairlead, if required (TM 9-2320-365-10).
- (2) Lubricate rear rollers (Appendix H).



17-4. 11K SELF-RECOVERY WINCH (SRW) CABLE PULLEYS REPLACEMENT

This task cowers:

- a. Front Pulley Removal
- b. Front Pulley Installation
- c. Rear Pulley Removal

- d. Rear Pulley Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Cab raised (TM 9-2320-365-10). 11K SRW cable extended approximately 3 ft (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)

Tools and Special Tools

Hammer, Hand (Item 17, Appendix C) Gloves, Welder's (Item 14, Appendix C) Goggles, Industrial (Item 15, Appendix C)

Materials/Parts

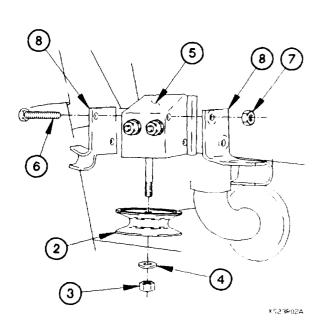
Nut, Self-Locking (2) (Item 134, Appendix G) Nut, Self-Locking (2) (Item 149, Appendix G)

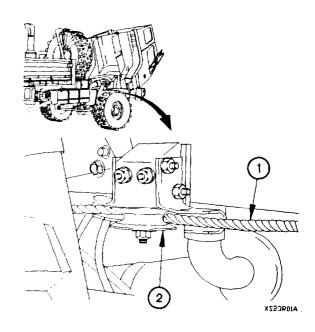
WARNING

Cable can become frayed or contain broken wires. Frayed or broken wires can injure hands. Wear heavy leather-palmed work gloves when handling cable. Failure to comply may result in injury to personnel.

a. Front Pulley Removal.

(1) Remove 11K SRW cable (1) from front cable pulley (2).



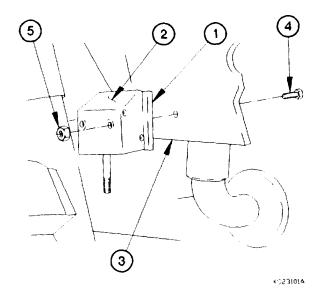


- (2) Remove nut (3), washer (4), and cable pulley (2) from mounting bracket (5).
- (3) Remove two screws (6), self-locking nuts (7), and brackets (8) from mounting bracket (5). Discard self-locking nuts.

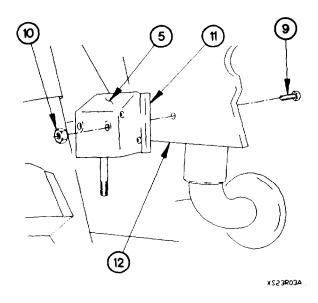
17-4. 11K SELF-RECOVERY WINCH (SRW) CABLE PULLEYS REPLACEMENT (CONT)

(4) Remove two screws (9), self-locking nuts (10), mounting bracket (5), and mounting plate (11) from frame (12). Discard self-locking nuts.

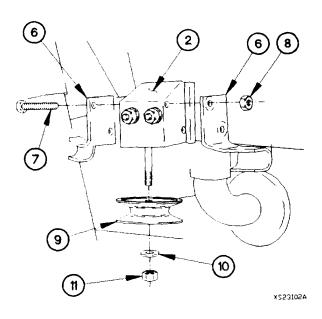
b. Front Pulley Installation.



- (3) Position two brackets (6) on mounting bracket (2) with two screws (7) and self-locking nuts (8).
- (4) Tighten two self-locking nuts (8) to 58-79 lb-ft (79-107 $N \bullet m$).
- (5) Install cable pulley (9) on mounting bracket (2) with washer (10) and nut (11).



- (1) Position mounting plate (1) and mounting bracket (2) to frame (3) with two screws (4) and self-locking nuts (5).
- (2) Tighten two self-locking nuts (5) to 114-140 lb-ft (155-190 N•m).

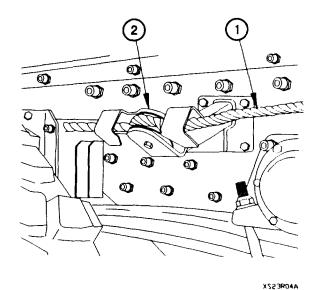


(6) Route 11K SRW cable (12) through front cable pulley (9).

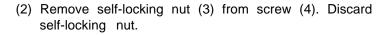
9

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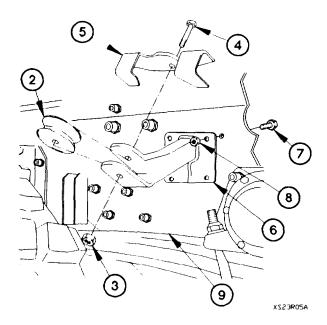
c. Rear Pulley Removal.



(1) Remove 11K SRW cable (1) from rear cable pulley (2).



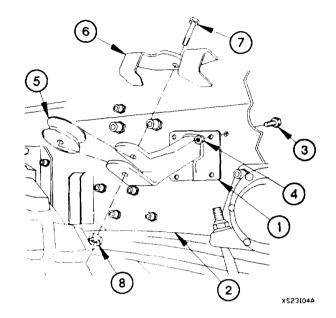
- (3) Remove screw (4), cable pulley (2), and mounting bracket (5) from bracket assembly (6).
- (4) Remove four screws (7), self-locking nuts (8), and bracket (6) from frame (9). Discard self-locking nuts.

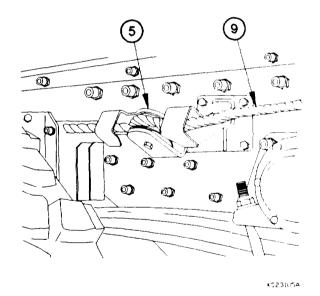


17-4. 11K SELF-RECOVERY WINCH (SRW) CABLE PULLEYS REPLACEMENT (CONT)

d. Rear Pulley Installation.

- (1) Position bracket (1) on frame (2) with four screws (3) and self-locking nuts (4).
- (2) Tighten four self-locking nuts (4) to 114-140 lb-ft (155-190 N•m).
- (3) Position cable pulley (5) and mounting bracket (6) on bracket (1) with screw (7) and self-locking nut (8).
- (4) Tighten self-locking nut (8) to 114-140 lb-ft (155-190 N•m).





(5) Route 11K SRW cable (9) through rear cable pulley (5).

e. Follow-On Maintenance.

- (1) Lower cab (TM 9-2320-365-10).
- (2) Operate 11K SRW and check for proper operation (TM 9-2320-365-10).
- (3) Reel in 11K SRW cable (TM 9-2320-365-10).

17-5. 11K SELF-RECOVERY WINCH (SRW) CABLE REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

11K SRW cable payed-out completely from front of vehicle (TM 9-2320-365-10).

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

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Gloves, Welder's (Item 14, Appendix C) Goggles, Industrial (Item 15, Appendix C)

Personnel Required

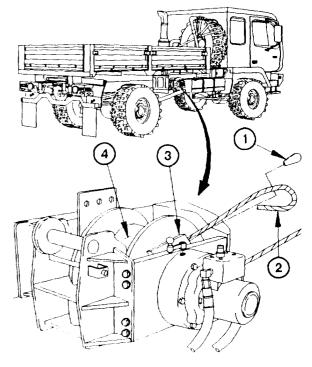
(3)

WARNING

- Wear leather gloves at all times when handling cable. Do not allow cable to slide through hands even with gloves on. Broken wires may cause injury. Failure to comply may result in injury to personnel.
- Wear appropriate eye protection when working under vehicle due to the possibility of falling debris. Failure to comply may result in injury to personnel.

a. Removal.

- (1) Remove cable wedge (1) and 11K SRW cable (2) from flange (3).
- (2) Pull 11K SRW cable (2) from flange (3).
- (3) Remove 11K SRW cable (2) from drum (4).

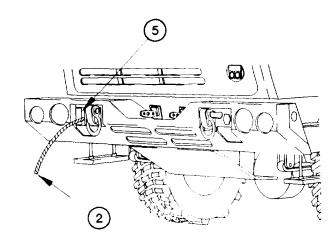


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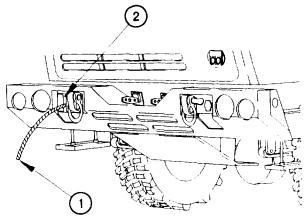
TM 9-2320-365-20-4

17-5. 11K SELF-RECOVERY WINCH (SRW) CABLE REPLACEMENT (CONT)

(4) Pull 11K SRW cable (2) out through roller fairleads (5) at front of vehicle.

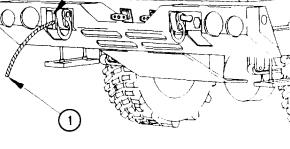


b. Installation.



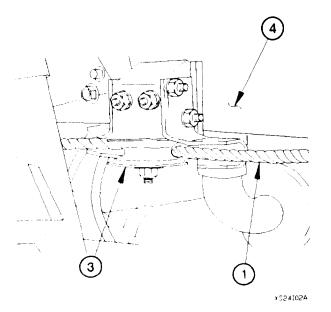
(1) Route 11K SRW cable (1) through roller fairleads (2) at front of vehicle.

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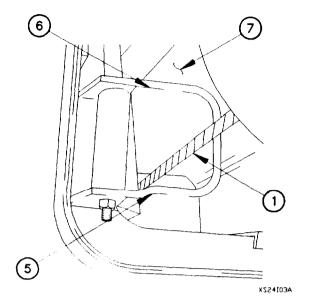


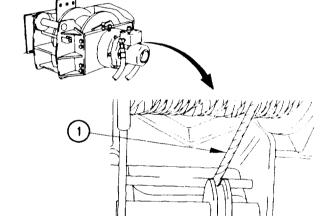
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(2) Route 11K SRW cable (1) through front cable pulley (3) on frame (4).



(3) Route 11K SRW cable (1) through cable guides (5 and 6) behind fuel tank (7).





(8)

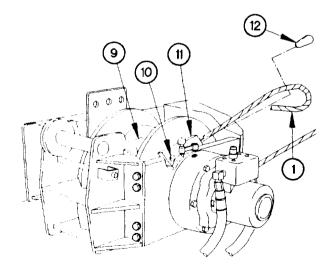
(4) Route 11K SRW cable (1) over cable guide roller (8).

NOTE

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Position 11K SRW cable on drum so it will spool properly.

- (5) Route 11K SRW cable (1) over and around drum (9).
- (6) Insert 11K SRW cable (1) through slot (10) in side of drum (9).
- (7) Route 11K SRW cable (1) up through flange (11) and back down into flange, making a loop.
- (8) Insert wedge (12) in loop and pull 11K SRW cable (1) and wedge into flange (11).
- (9) Drive wedge (12) and 11K SRW cable (1) down into flange (11) until fully seated.



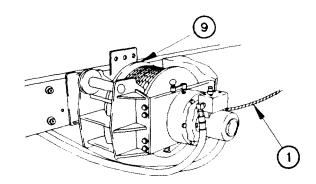
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17-5. 11K SELF-RECOVERY WINCH (SRW) CABLE REPLACEMENT (CONT)

- (10) Start engine (TM 9-2320-365-10).
- (11) Engage PTO (TM 9-2320-365-10).
- (12) Push and hold winch switch (TM 9-2320-365-10).

NOTE

- After one complete layer of 11K SRW cable is on drum, provide tension on 11K SRW cable by physically pulling on 11K SRW cable so that 11K SRW cable spools on tightly. Leave enough 11K SRW cable unspooled to allow installation of hook block.
- Step (13) requires the aid of two assistants.
- (13) Rewind 11K SRW cable (1) onto drum (9) (TM 9-2320-365-10).



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c. Follow-On Maintenance.

- (1) Disengage PTO (TM 9-2320-365-10).
- (2) Shut down engine (TM 9-2320-365-10).
- (3) Lubricate 11K SRW cable (Appendix H).

17-6. WINCH CONTROL VALVE ASSEMBLY AND BRACKET REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

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

Tools and Special Tools

Goggles, Industrial (Item 15, Appendix C)
Pan, Drain (Item 24, Appendix C)
Tool Kit, Genl Mech (Item 44, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Socket Set, Socket Wrench (Item 34, Appendix C)

Materials/Parts

Cap and Plug Set (Item 15, Appendix D)
Dispenser, Pressure Sensitive Adhesive Tape
(Item 21, Appendix D)
Packing, Preformed (5) (Item 159, Appendix G)
Ties, Cable, Plastic (Item 76, Appendix D)

WARNING

Wear appropriate eye protection when working under vehicle due to the possibility of falling debris. Failure to comply may result in injury to personnel.

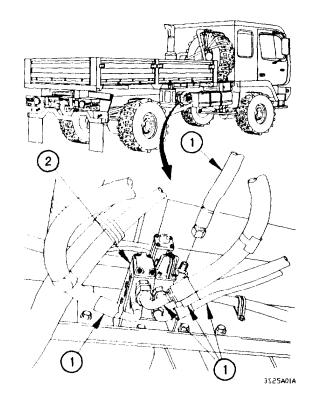
a. Removal

CAUTION

Cap or plug hoses and connection points to prevent contamination of hydraulic system. Failure to comply may result in damage to equipment.

NOTE

- Remove plastic cable ties as required.
- Tag hoses and connection points prior to disconnecting.
- (1) Disconnect five hoses (1) from winch control valve (2).

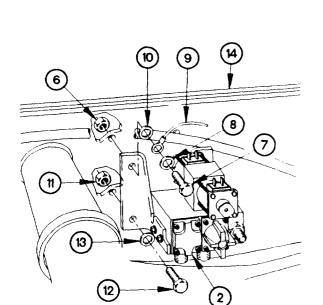


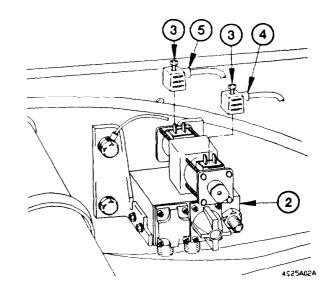
17-6. WINCH CONTROL VALVE ASSEMBLY AND BRACKET REPLACEMENT (CONT)

NOTE

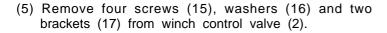
Tag connectors and connection points prior to disconnecting.

(2) Loosen two captive screws (3) and disconnect connectors L4 (4) and L5 (5) from winch control valve (2).

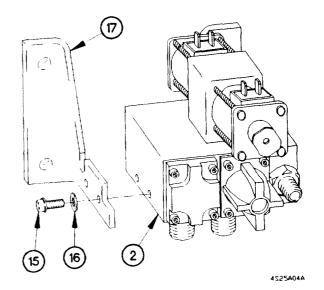




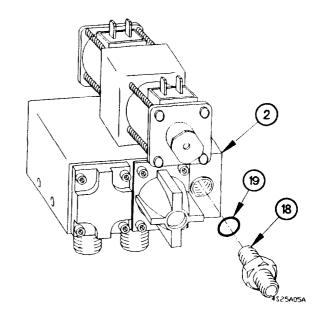
- (3) Remove nut (6), screw (7), washer (8), terminal lug TL320 (9), and washer (10) from winch control valve (2).
- (4) Remove three nuts (11), screws (12), washers (13), and winch control valve (2) from right frame rail (14).



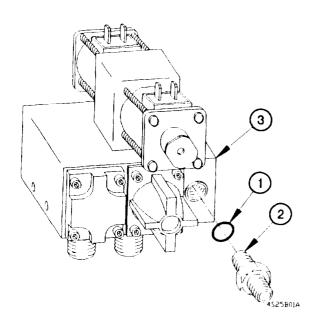
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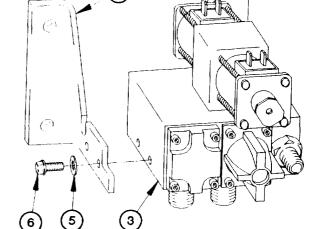
- (6) Remove five fittings (18) from winch control valve (2).
- (7) Remove five preformed packings (19) from fittings (18). Discard preformed packings.



b. Installation



- (1) Install preformed packing (1) on each of five fittings (2).
- (2) Install five fittings (2) in winch control valve (3).

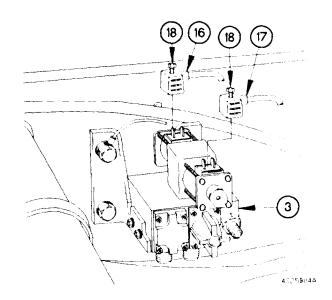


- (3) Position two brackets (4) on winch control valve (3) with four washers (5) and screws (6).
- (4) Tighten four screws (6) to 11-13 lb-ft (15-17 Nom).

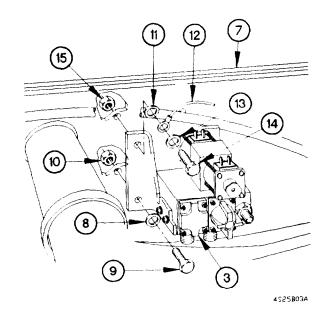
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17-6. WINCH CONTROL VALVE ASSEMBLY AND BRACKET REPLACEMENT (CONT)

- (5) Position winch control valve (3) on right frame rail (7) with three washers (8), screws (9), and nuts (10).
- (6) Position washer (11) and terminal lug TL320 (12) on winch control valve (3) with washer (13) screw (14), and nut (15).
- (7) Tighten three nuts (10) and nut (15) to 20-24 lb-ft (27-33 N•m).



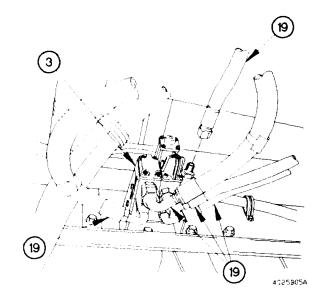
(10) Install five hoses (19) on winch control valve (3).



NOTE

Install plastic cable ties as required.

- (8) Connect connectors L5 (16) and L4 (17) to winch control valve (3).
- (9) Tighten two captive screws (18) in connectors L5 (16) and L4 (17).



c. Follow-On Maintenance.

- (1) Start engine (TM 9-2320-365-10).
- (2) Operate 11K SRW and check for proper operation and for hydraulic leaks around winch control valve and hoses (TM 9-2320-365-10).

17-7. 11K SELF-RECOVERY WINCH (SRW) HOSES REPLACEMENT

This task covers:

a. Hydraulic Hose Locations

b. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shutdown (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Pan, Drain (Item 24, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Wrench, Torque, 0-600 lb-ft (Item 59, Appendix C)
Crowfoot Attachment, Socket Wrench (Item 5, Appendix B)
Crowfoot Attachment, Socket Wrench (Item 10,

Tools and Special Tools (Cont)

Crowfoot Attachment, Socket Wrench (Item 12, Appendix B) Crowfoot Attachment, Socket Wrench (Item 11, Appendix B)

Materials/Parts

Cap and Plug Set (Item 15, Appendix D)
Dispenser, Pressure Sensitive Adhesive Tape
(Item 21, Appendix D)
Ties, Cable, Plastic (Item 76, Appendix D)
Oil, Lubricating, OE/HDO 10 (Item 43,
Appendix D)

a. Hydraulic Hose Locations.

Appendix B)

WARNING

- Wear appropriate eye protection when working under vehicle due to the possibility of falling debris.
 Failure to comply may result in injury to personnel.
- Prolonged contact with lubricating oil (MIL-L-2104) may cause a skin rash. Skin and clothing that
 come in contact with lubricating oil should be thoroughly washed immediately. Saturated clothing
 should be removed immediately. Areas in which lubricating oil is used should be well ventilated
 to keep fumes to a minimum. Failure to comply may result in injury to personnel.

CAUTION

Cap or plug hoses and connection points to prevent contamination of 11K SRW hydraulic system. Failure to comply may result in damage to equipment.

NOTE

- Refer to Table 17-1. 11K Self-Recovery Winch (SRW) Hydraulic Hose Locations for locations of hydraulic hoses on the 11K SRW. It may not be necessary to remove all hydraulic hoses at one time.
- Tag hoses and connection points prior to removal.
- Remove plastic cable ties as required.
- Remove clamps and support brackets as required.
- Position drain pan to collect oil.

6 TOP VIEW FRONT OF TRUCK -2 LEFT SIDE VIEW FRONT OF TRUCK x256H01A

Figure 17-1. 11K Self-Recovery Winch (SRW) Hydraulic Hose Locations

Table 17-1. 11K Self-Recovery Winch (SRW) Hydraulic Hose Locations

Hydraulic Hose Name	From	То	Torque
Pump Suction Hose	Hydraulic tank fitting (1)	Hydraulic pump fitting (2)	207-229 lb-ft (281-311 N•m)
Pump Pressure Hose	Hydraulic pump fitting (3)	Control valve fitting (4)	107-120 lb-ft (145-163 N•m)
Rear Return Hose	Control valve fitting (5)	Bulkhead tee fitting (6)	107-120 lb-ft (145-163 N•m)
Control Valve Bypass Hose	Control valve fitting (7)	Bulkhead tee fitting (8)	107-120 lb-ft (145-163 N•m)

17-7. 11K SELF-RECOVERY WINCH (SRW) HOSE REPLACEMENT (CONT)

Figure 17-1. 11K Self-Recovery Winch (SRW) Hydraulic Hose Locations (Cont)

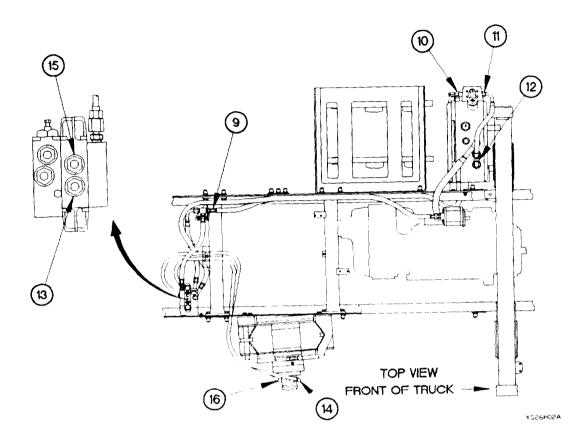


Table 17-1. 11K Self-Recovery Winch (SRW) Hydraulic Hose Locations (Cont)

It deals lies Signs	From	То	Torque
Hydraulic Hose Name Intermediate Return Hose	Bulkhead tee fitting (9)	Hydraulic oil filter fitting (10)	107-120 lb-ft (145-163 N•m)
Front Return Hose	Hydraulic oil filter fitting (11)	Hydraulic tank fitting (12)	107-120 lb-ft (143-163 N•m)
Front Winch Motor Hose	Control valve fitting (13)	11K SRW holding valve fitting (14)	107-120 lb-ft (143-163 N•m)
Rear Winch Motor Hose	Control valve fitting (15)	11K SRW holding valve fitting (16)	107-120 lb-ft (143-163 N•m)

b. Follow-On Maintenance.

- (1) Fill hydraulic reservoir with oil (Appendix H).
- (2) Check around hoses for oil leaks.
- (3) Operate 11K SRW and check for oil leaks (TM 9-2320- 365-10).

CHAPTER 18 BODY, CHASSIS, AND ACCESSORY ITEMS MAINTENANCE

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Section I. INTRODUCTION

18-1. INTRODUCTION

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

Section II. MAINTENANCE PROCEDURES

18-2. WINDSHIELD WASHER RESERVOIR AND PUMP REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

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

Tools and Special Tools

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

Materials/Parts

Cleaning Compound, Windshield (Item 16, Appendix D)

Grommet, Nonmetallic (Item 47, Appendix G)

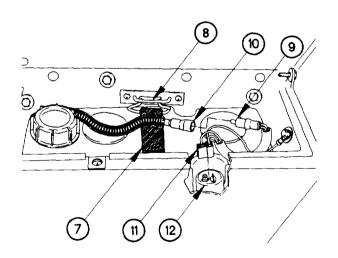
a. Removal.

- (1) Turn screw (1) to the left to unlock cab step tread (2).
- (2) Remove two nuts (3), washers (4), and screw (5) from cab step tread (2).

NOTE

Screw will remain attached to cab step.

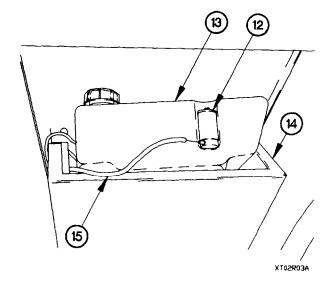
(3) Remove cab step tread (2) from screw (6).

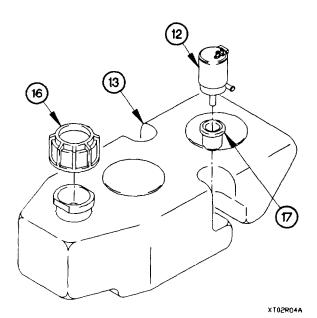


- 4 3 3 4 6
 5
 workeld waser Fluid
- (4) Remove strap (7) from two brackets (8).
- (5) Disconnect connector J25 (9) from connector P25 (10).
- (6) Disconnect connector P125 (11) from windshield washer pump (12).

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- (7) Lift windshield washer reservoir (13) partially out of left cab step (14).
- (8) Disconnect windshield washer supply tube (15) from windshield washer pump (12).
- (9) Remove windshield washer reservoir (13) from left cab step (14).

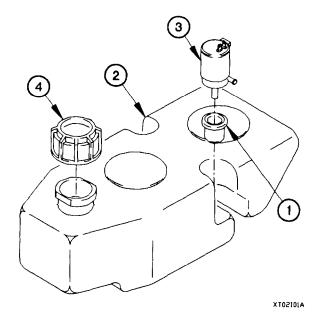




- (10) Remove cap (16) from windshield washer reservoir (13).
- (11) Remove windshield washer pump (12) from windshield washer reservoir (13).
- (12) Remove grommet (17) from windshield washer reservoir (13). Discard grommet.

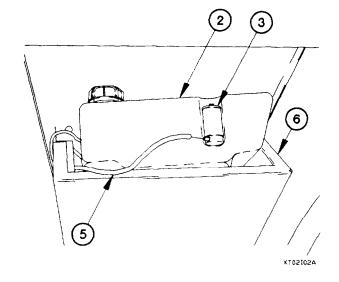
b. Installation.

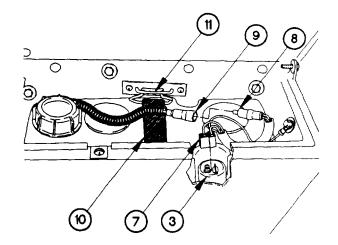
- (1) Install grommet (1) in windshield washer reservoir (2).
- (2) Install windshield washer pump (3) in windshield washer reservoir (2).
- (3) Install cap (4) on windshield washer reservoir (2).



18-2. WINDSHIELD WASHER RESERVOIR AND PUMP REPLACEMENT (CONT)

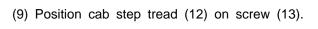
- (4) Connect windshield washer supply tube (5) to windshield washer pump (3).
- (5) Install windshield washer reservoir (2) in left cab step (6).

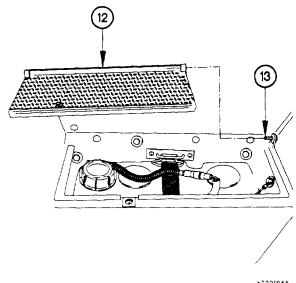




- (6) Connect connector P125 (7) to windshield washer pump (3).
- (7) Connect connector J25 (8) to connector P25 (9).
- (8) Connect strap (10) to two brackets (11).

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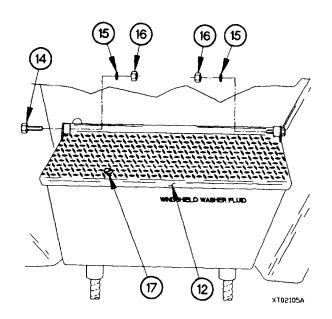


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- (10) Install screw (14), two washers (15), and nuts (16) in cab step tread (12).
- (11) Lock cab step tread (12) by turning screw (17) one half turn to the right.

c. Follow-On Maintenance.

- (1) Fill windshield washer reservoir (TM 9-2320-365-10).
- (2) Operate windshield washer and check for proper operation (TM 9-2320-365-10).



18-3. WINDSHIELD WIPER AND NOZZLE REPLACEMENT

This task covers:

- a. Removal
- b. Disassembly
- c. Assembly

- d. Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

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

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C) Socket Set, Socket Wrench (Item 35, Appendix C)

Materials/Parts

Blade, Windshield Wiper (Item 1, Appendix G) Washer, Spring (Item 279, Appendix G)

a. Removal.

NOTE

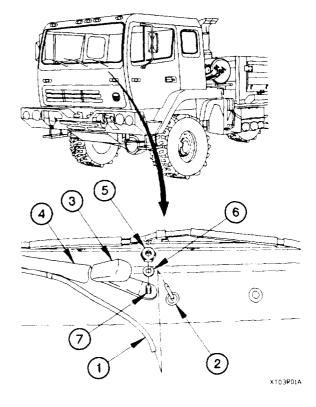
All windshield wipers are removed the same way. Left side shown.

- (1) Disconnect windshield washer hose (1) from fitting (2).
- (2) Lift cover (3) at base of wiper arm (4).
- (3) Remove nut (5) and spring washer (6) from wiper arm shaft (7). Discard spring washer.

NOTE

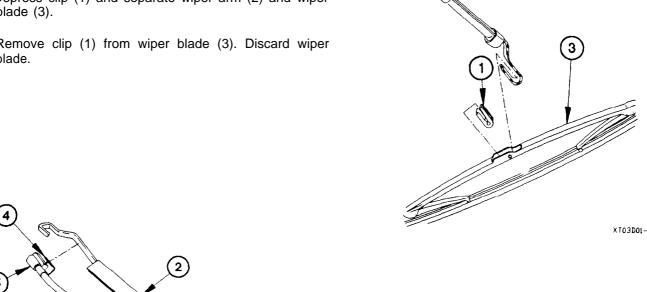
Mark position of wiper arm prior to removal.

(4) Remove wiper arm (4) from wiper arm shaft (7).

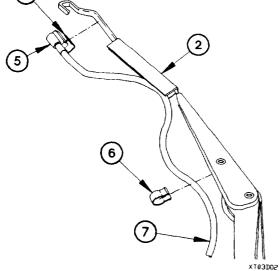


b. Disassembly.

- (1) Depress clip (1) and separate wiper arm (2) and wiper blade (3).
- (2) Remove clip (1) from wiper blade (3). Discard wiper

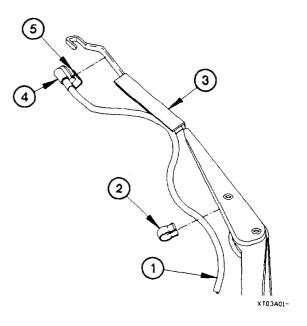


- (3) Lift UP clip (4) and remove windshield washer nozzle (5) from wiper arm (2).
- (4) Squeeze clip (6) and remove clip and windshield washer hose (7) from wiper arm (2).



c. Assembly.

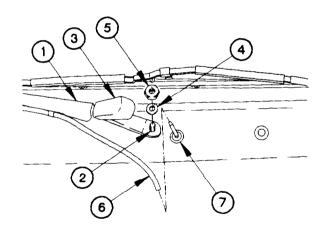
- (1) Install windshield wiper hose (1) and clip (2) on wiper arm (3).
- (2) Install windshield washer nozzle (4) and clip (5) on wiper arm (3).



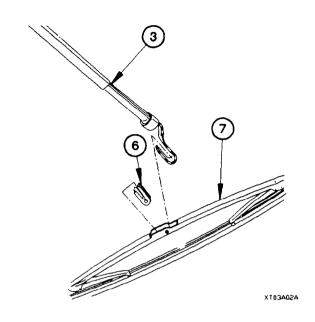
18-3. WINDSHIELD WIPER AND NOZZLE REPLACEMENT (CONT)

- (3) Install clip (6) on wiper blade (7).
- (4) Install wiper blade (7) on wiper arm (3).

d. Installation.



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NOTE

All windshield wipers are installed the same way. Left side shown.

- (1) Position wiper arm (1) on wiper arm shaft (2).
- (2) Lift cover (3) on wiper arm shaft (2).
- (3) Position spring washer (4) and nut (5) on wiper arm shaft (2).
- (4) Tighten nut (5) to 120-168 lb-in. (14-19 N•m).
- (5) Snap cover (3) in place on wiper arm (1).
- (6) Connect windshield washer hose (6) to fitting (7).

e. Follow-On Maintenance.

Operate windshield wipers and check for proper operation (TM 9-2320-365-10).

18-4. WINDSHIELD WIPER MOTOR REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Batteries disconnected (para 7-48). PDP cover removed (para 16-2).

Tools and Special Tools

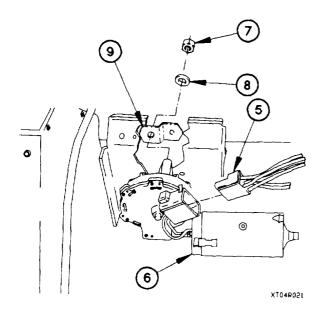
Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque 0-200 lb-in. (Item 58, Appendix C) Wrench, Torque 0-175 lb-ft (Item 57, Appendix C) Wrench Set, Socket (Item 49, Appendix C)

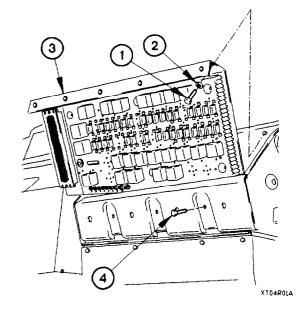
Materials/Parts

Ties, Cable, Plastic (Item 76, Appendix D) Nut, Self-Locking (Item 153, Appendix G)

a. Removal.

- (1) Remove three screws (1) and washers (2) from PDP (3).
- (2) Remove three screws (4) from PDP (3).
- (3) Lift PDP (3) outward to gain access.





NOTE

Remove plastic cable ties as required.

- (4) Disconnect connector PX22 (5) from wiper motor (6).
- (5) Remove self-locking nut (7) and washer (8) from wiper motor (6). Discard self-locking nut,

NOTE

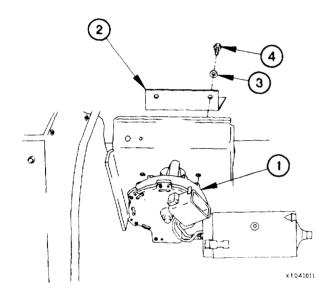
Note orientation of wiper arm prior to removal.

(6) Remove wiper arm (9) from wiper motor (6).

18-4. WINDSHIELD WIPER MOTOR REPLACEMENT (CONT)

(7) Remove three screws (10), washers (11), wiper motor (6), and wiper motor bracket (12) from vehicle.

b. Installation.



NOTE

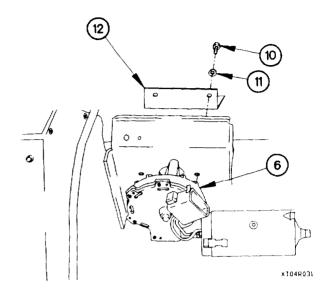
Use orientation noted from removal of wiper arm.

(3) Install wiper arm (5) on wiper motor (1) with washer (6) and self-locking nut (7).

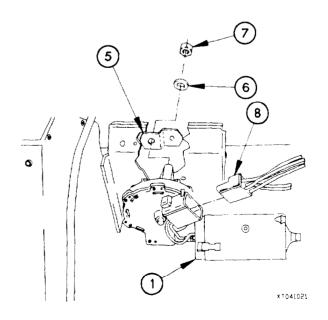
NOTE

Install plastic cable ties as required.

(4) Connect connector PX22 (8) to wiper motor (1).



- (1) Position wiper motor (1) and wiper motor bracket (2) on vehicle with three washers (3) and screws (4).
- (2) Tighten three screws (4) to 96-120 lb-in. (11-14 N•m).



- (5) Install PDP (9) on dashboard (10) with three screws (11).
- (6) Install three washers (12) and screws (13) in PDP (9).

c. Follow-On Maintenance.

- (1) Install PDP cover (para 16-2).
- (2) Connect batteries (para 7-48).
- (3) Check windshield wiper operation (TM 9-2320-365-10).

End of Task.

18-5. WINDSHIELD WIPER LINKAGE REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Batteries disconnected (para 7-48). Windshield wipers and nozzles removed (para 18-3).

PDP cover removed (para 16-2). Personnel heater removed (para 18-9). Instrument panel assembly removed for access (para 7-15).

Tools and Special Tools

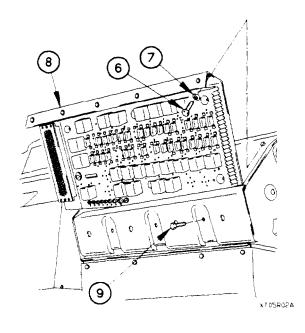
Tool Kit, Genl Mech (Item 44, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C)
Socket Set, Socket Wrench (Item 34, Appendix C)

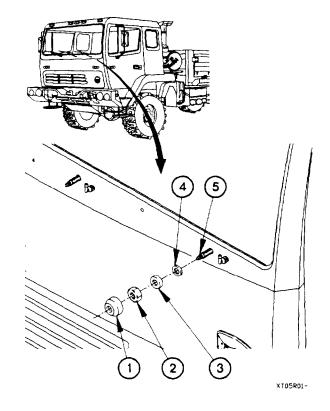
Material/Parts

Washer, Flat Rubber (3) (Item 272, Appendix G) Nut, Self-Locking (6) (Item 116, Appendix G) Nut, Self-Locking (Item 153, Appendix G)

a. Removal.

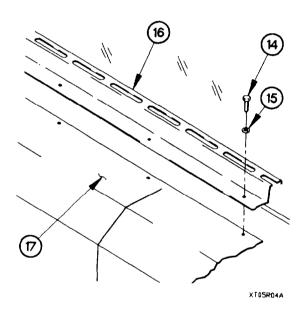
(1) Remove three collars (1), nuts (2), washers (3), and rubber washers (4) from wiper shafts (5).



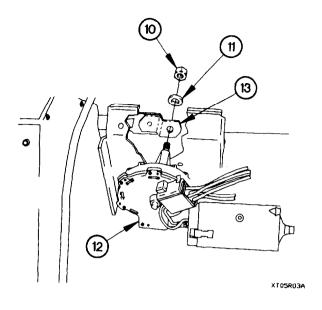


- (2) Remove three screws (6) and washers (7) from PDP (8).
- (3) Remove three screws (9) from PDP (8).
- (4) Lift PDP (8) outward to gain access.

- (5) Remove self-locking nut (10) and washer (11) from wiper motor (12). Discard self-locking nut.
- (6) Remove windshield wiper linkage (13) from wiper motor (12).



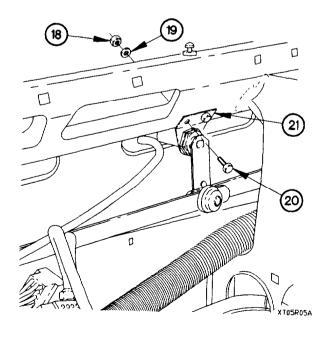
(8) Remove six self-locking nuts (18), washers (19), and screws (20) from three linkage mounting brackets (21). Discard self-locking nuts.



NOTE

Perform steps (7) and (8) on all models except M1081.

(7) Remove six screws (14), washers (15), and defroster plenum (16) from dashboard (17).

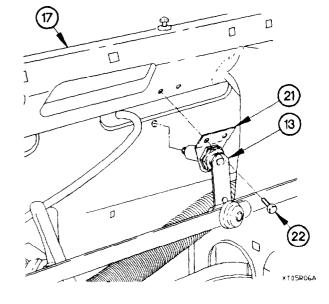


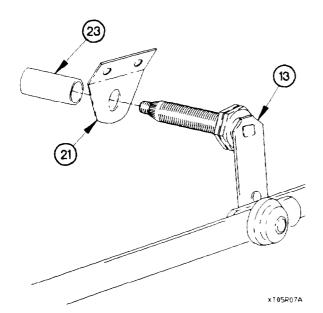
18-5. WINDSHIELD WIPER LINKAGE REPLACEMENT (CONT)

NOTE

Perform step (9) on M1081.

- (9) Remove six screws (22) from three linkage mounting brackets (21).
- (10) Remove windshield wiper linkage (13) from dashboard (17).

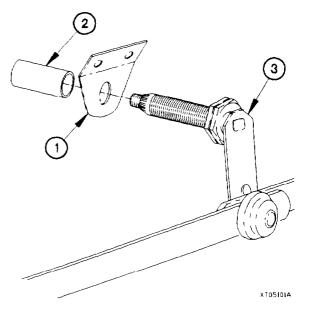




(11) Remove three sleeve spacers (23) and linkage mounting brackets (21) from windshield wiper linkage (13)

b. Installation.

(1) Install three linkage mounting brackets (1) and sleeve spacers (2) on windshield wiper linkage (3).

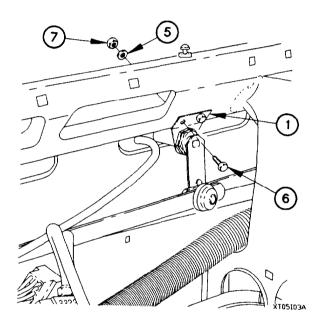


(2) Position windshield wiper linkage (3) in dashboard (4).

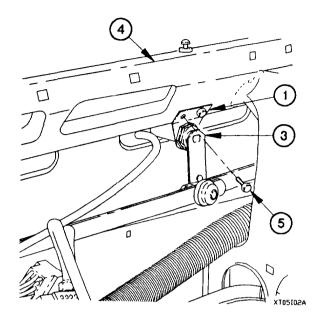
NOTE

Perform steps (3) and (4) on model M1081.

- (3) Position six screws (5) in three linkage mounting brackets (1).
- (4) Tighten six screws (5) to 96-120 lb-in. (11-14 N•m).



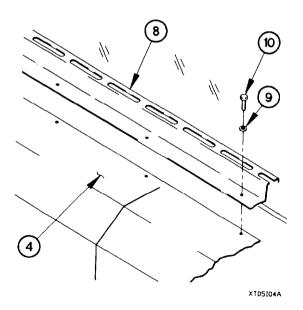
(7) Install defroster plenum (8) on dashboard (4) with six washers (9) and screws (10).



NOTE

Perform steps (5) through (7) on all models except M1081.

- (5) Position six screws (6), washers (5), and self-locking nuts (7) in three linkage mounting brackets (1).
- (6) Tighten six self-locking nuts (7) to 96-120 lb-in. (11- $14\ N^{\bullet}m$.



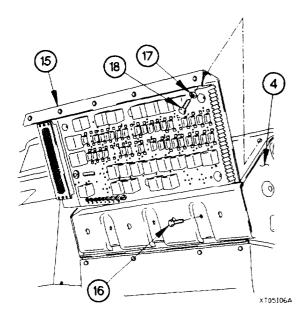
18-5. WINDSHIELD WIPER LINKAGE REPLACEMENT (CONT)

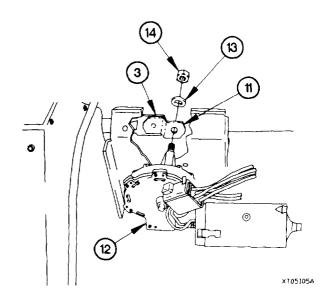
(8) Position windshield wiper linkage (3) to full left position.

NOTE

Wiper arm should be in a straight line with windshield wiper linkage prior to installing on wiper motor.

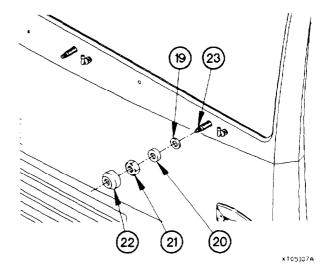
- (9) Position wiper arm (11) on wiper motor (12) with washer (13) and self-locking nut (14).
- (10) Tighten self-locking nut (14) to 20-26 lb-ft (27-35 $N \cdot m$).





- (11) Install PDP (15) on dashboard (4) with three screws (16).
- (12) Install three washers (17) and screws (18) in PDP (15).

(13) Install three rubber washers (19), washers (20), nuts (21), and collars (22) on wiper shafts (23).



c. Follow-On Maintenance.

- (1) Install instrument panel assembly (para 7-15).
- (2) Install personnel heater (para 18-9).
- (3) Install PDP cover (para 16-2).
- (4) Install windshield wipers and nozzles (para 18-3).
- (5) Connect batteries (para 7-48).
- (6) Check windshield wiper operation (TM 9-2320-365-10).

End of Task.

18-6. WINDSHIELD WASHER HOSES AND CONNECTOR REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Batteries disconnected (para 7-48). Personnel heater removed (para 18-9). Instrument panel assembly removed for access (para 7-15).

Tools and Special Tools

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

Material/Parts

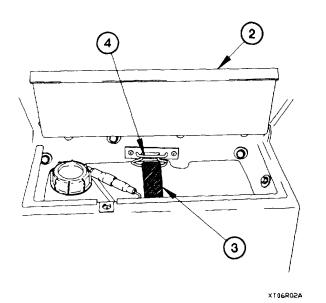
Grommet, Nonmetallic (Item 46, Appendix G) Lockwire (Item 32, Appendix D)

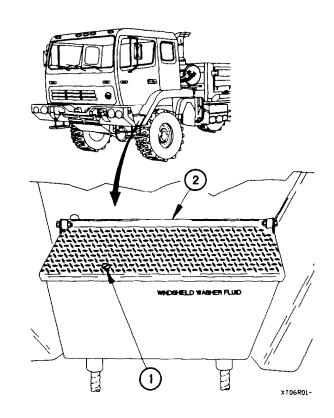
Personnel Required

(2)

a. Removal.

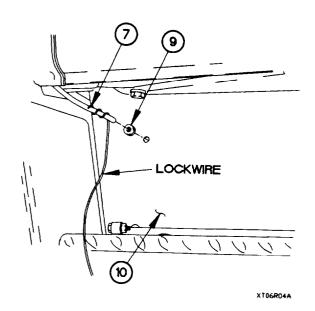
(1) Turn screw (1) to the left to unlock cab step tread (2).

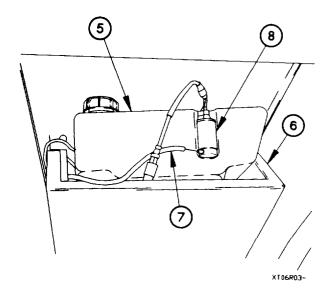




- (2) Open cab step tread (2).
- (3) Remove strap (3) from two brackets (4).

- (4) Lift windshield washer reservoir (5) partially out of left cab step (6).
- (5) Disconnect hose (7) from windshield washer pump (8).
- (6) Pull hose (7) out through hole at back of left cab step (6).





- (7) Remove grommet (9) and hose (7) from cab step mount (10).
- (8) Remove grommet (9) from hose (7). Discard grommet.
- (9) Attach a length of lockwire to bottom end of hose (7).

NOTE

All three hoses and connectors are removed the same way. Center hose and connector shown.

(10) Disconnect three hoses (7) from three connectors (11).

NOTE

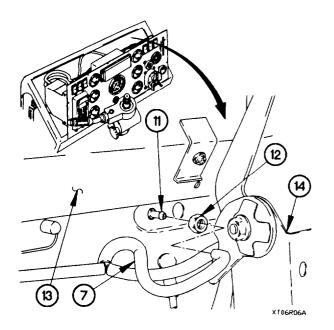
Step (11) requires the aid of an assistant.

(11) Remove three nuts (12) and connectors (11) from cab (13).

NOTE

Note routing of hoses prior to removal.

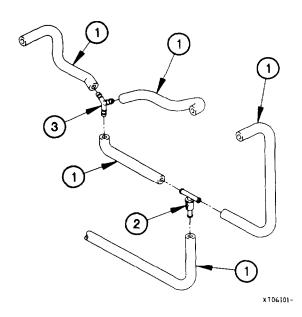
(12) Remove three hoses (7) from dashboard (14).



18-6. WINDSHIELD WASHER HOSES AND CONNECTOR REPLACEMENT (CONT)

- (13) Remove bottom end of hose (7) from lockwire.
- (14) Disconnect three hoses (7) from wye splitter (15).
- (15) Disconnect three hoses (7) from check valve (16).

b. Installation.



NOTE

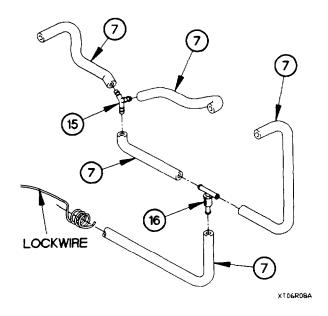
Steps (3) and (4) require the aid of an assistant.

(3) Route three hoses (1) through dashboard (4).

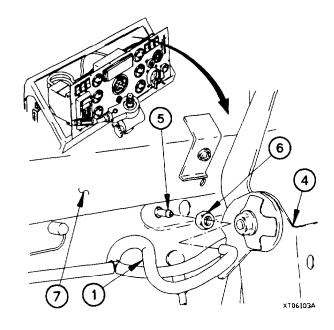
NOTE

All three connectors and hoses are installed the same way. Center connector and hose shown.

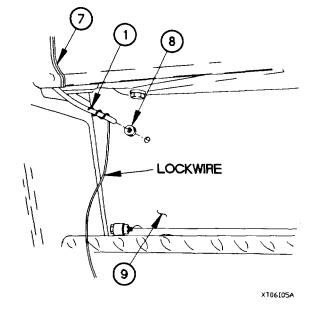
- (4) Install three connectors (5) and nuts (6) in cab (7).
- (5) Connect three hoses (1) to three connectors (5).

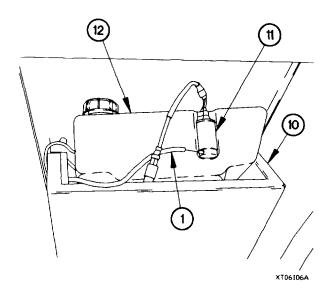


- (1) Connect three hoses (1) to check valve (2).
- (2) Connect three hoses (1) to wye splitter (3).

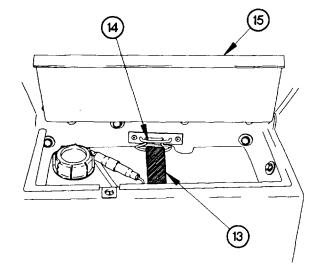


- (6) Attach lockwire to bottom end of hose (1).
- (7) Pull lockwire and hose (1) through hole at bottom corner of cab (7).
- (8) Remove lockwire from hose (1).
- (9) Install grommet (8) on hose (1).
- (10) Route hose (1) through cab step mount (9).
- (11) Install grommet (8) in cab step mount (9).





- (12) Route hose (1) through hole at back of left cab step (10).
- (13) Connect hose (1) to windshield washer pump (11).
- (14) Install windshield washer reservoir (12) in left cab step (10).



- (15) Connect strap (13) to two brackets (14).
- (16) Close cab step tread (15).

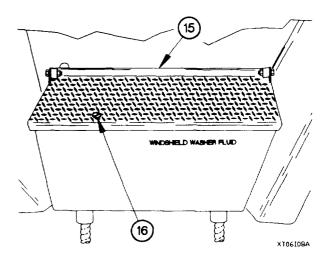
18-6. WINDSHIELD WASHER HOSES AND CONNECTOR REPLACEMENT (CONT)

(17) Turn screw (16) to the right to lock cab step tread (15).

c. Follow-On Maintenance.

- (1) Install instrument panel assembly (para 7-15).
- (2) Install personnel heater (para 18-9).
- (3) Connect batteries (para 7-48).
- (4) Check fluid level in windshield washer reservoir (TM 9-2320-365-10).
- (5) Operate windshield washer and check for proper operation (TM 9-2320-365-10).

End of Task.



18-7. CAB MIRROR 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) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)

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

Appendix C)

Tools and Special Tools (Cont)

Socket Set, Socket Wrench (Item 34, Appendix C) Screwdriver Attachment, Socket Wrench (Item 43, Appendix B)

Materials/Parts

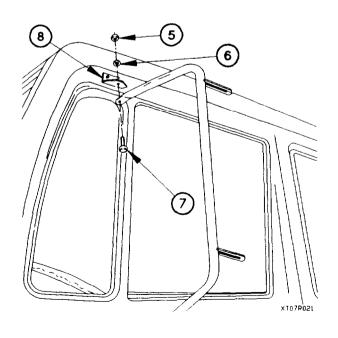
Nut, Self-Locking (2) (Item 148, Appendix G) Nut, Self-Locking (2) (Item 128, Appendix G)

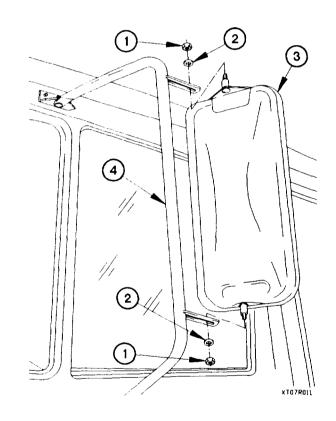
a. Removal.

NOTE

Left and right cab mirrors are removed the same way. Left side shown.

(1) Remove two self-locking nuts (1), washers (2), and mirror (3) from mirror arm (4). Discard self-locking nuts.

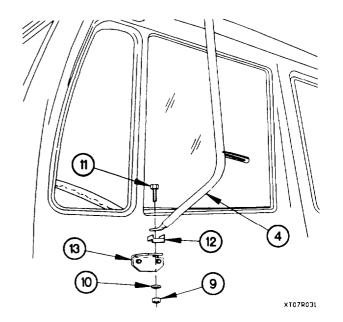


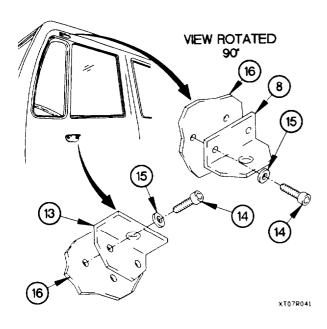


(2) Remove self-locking nut (5), washer (6), and screw (7) from upper bracket (8). Discard self-locking nut.

18-7. CAB MIRROR REPLACEMENT (CONT)

(3) Remove self-locking nut (9), washer (10), screw (11), mirror arm (4), and clip (12) from lower bracket (13). Discard self-locking nut.





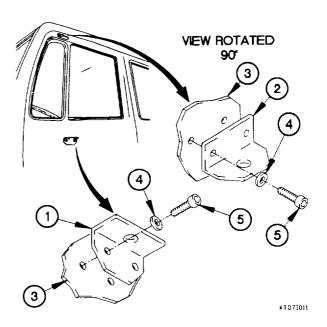
(4) Remove four screws (14), washers (15), and brackets (8 and 13) from cab (16).

b. Installation.

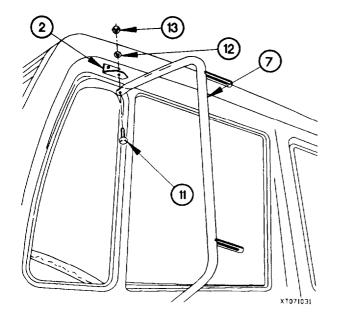
NOTE

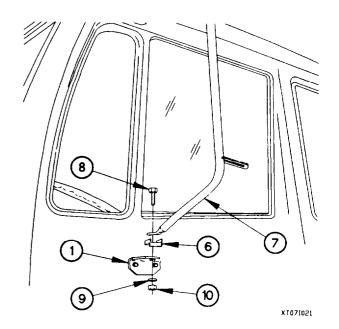
Left and right cab mirrors are installed the same way. Left side shown.

- (1) Position brackets (1 and 2) on cab (3) with four washers (4) and screws (5).
- (2) Tighten four screws (5) to 80-98 lb-in. (9-11 N•m).



(3) Position clip (6) and mirror arm (7) on lower bracket (1) with screw (8), washers (9), and self-locking nut (10).

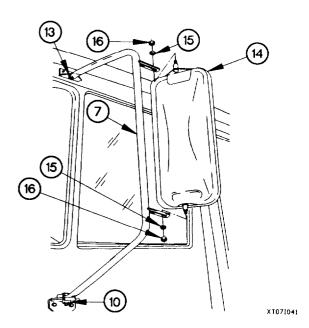




(4) Position mirror arm (7) on upper bracket (2) with screw (11), washer (12), and self-locking nut (13).

- (5) Tighten self-locking nuts (10 and 13) to 21-27 lb-ft (28-37 N•m).
- (6) Position mirror (14) on mirror arm (7) with two washers (15) and self-locking nuts (16).
- (7) Tighten two self-locking nuts (16) to 53-61 lb-in. (6-8 N•m).





18-8. DEFROST COVER REPLACEMENT

This task covers:

- a. Removal (All Models Except M1081)
- b. Installation (All Models Except M1081)
- c. M1081 Removal
- d. M1081 Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). M1081 cab roof removed (para 16-4).

Tools and Special Tools

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)

Materials/Parts

Seal, Urethane Foam (86.75 in. (220.3 cm)) (Item 256, Appendix G) (all models except MI 081)

Materials/Parts (Cont)

Seal, Urethane Foam (102.25 in. (259.7 cm)) (Item 258, Appendix G) (all models except M1081)

Seal, Urethane Foam (36.25 in. (92.1 cm)) (Item 257, Appendix G) (M1081)

Seal, Urethane Foam (37.5 in. (95.2 cm)) (Item 256, Appendix G) (M1081)

Personnel Required

(2)

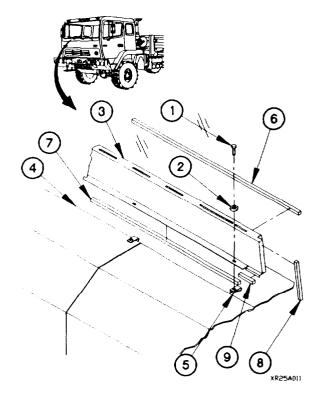
a. Removal (All Models Except M1081).

- (1) Remove six screws (1), washers (2), and defrost cover (3) from dashboard (4).
- (2) Remove six clip nuts (5) from dashboard (4).

NOTE

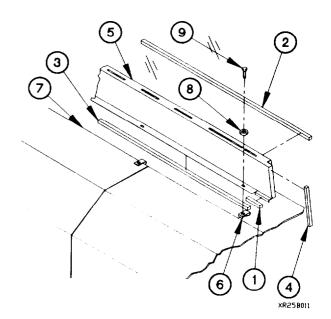
Note position of seals prior to removal.

- (3) Remove seals (6 and 7) and two seals (8) from defrost cover (3). Discard seals.
- (4) Remove two seals (9) from defrost cover (3). Discard seals.

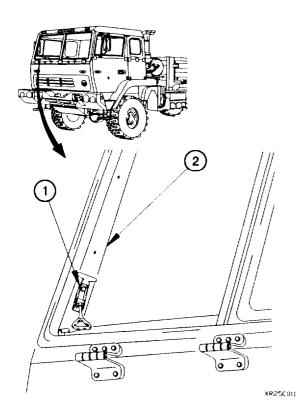


b. Installation (All Models Except M1081).

- (1) Cut two seals (1) to 2.5 in. (6.3 cm),
- (2) Cut seal (2) to 86 3/4 in. (220.3 cm).
- (3) Cut seal (3) to 86 3/4 in. (220.3 cm).
- (4) Cut two seals (4) to 5.25 in. (13.3 cm).
- (5) Install seals (2 and 3) and two seals (4) on defrost cover (5).
- (6) Install six clip nuts (6) in dashboard (7).
- (7) Position defrost cover 15) on vehicle with six washers (8) and screws (9).
- (8) Tighten four screws (9) to 22-27 lb-in. (2-3 N•m).



c. M1081 Removal.



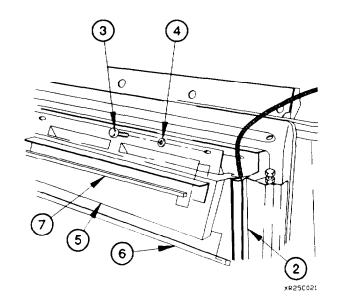
(1) Release two latches (1) and fold down windshield frame (2).

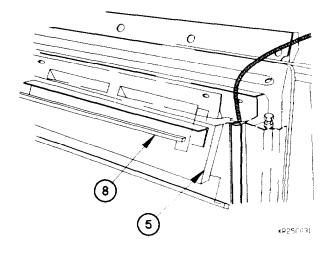
18-8. DEFROST COVER REPLACEMENT (CONT)

NOTE

Left and right defrost covers are removed the same way. Left defrost cover shown.

- (2) Remove four screws (3), washers (4), and defrost cover (5) from windshield frame (2).
- (3) Remove seal (6) from defrost cover (5). Discard seal.
- (4) Remove seal (7) from defrost cover (5). Discard seal.





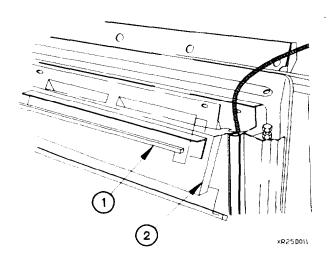
(5) Remove seal (8) from defrost cover (5). Discard seal.

d. M1081 Installation.

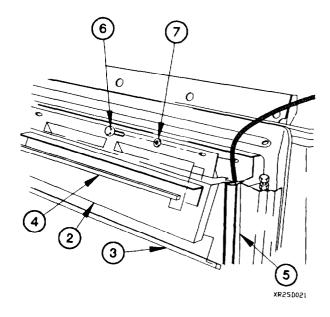
NOTE

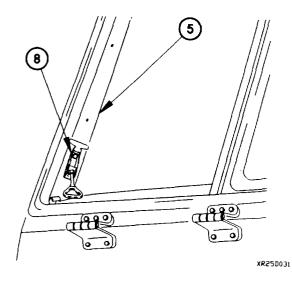
Left and right defrost covers are installed the same way. Left defrost cover shown.

- (1) Cut seal (1) to 1 3/4 in. (4.5 cm).
- (2) Install seal (1) on defrost cover (2).



- (3) Cut seal (3) to 71 in. (180.1 cm).
- (4) Cut seal (4) to 75 in. (190.1 cm).
- (5) Install seals (3 and 4) on defrost cover (2).
- (6) Install defrost cover (2) on windshield frame (5) with four washers (6) and screws (7).





(7) Fold up windshield frame (5) and fasten two latches (8).

e. Follow-On Maintenance.

Install M1081 cab roof (para 16-4).

End of Task.

This task covers:

- a. Removal
- b. Disassembly
- c. Cleaning/Inspection

- d. Assembly
- e. Installation
- f. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

CTIS ECU removed (para 12-6). Auxiliary panel removed, if equipped (para 7-8). Kick panel removed (para 16-3).

Tools and Special Tools

Pan, Drain (Item 24, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Gloves, Rubber (Item 13, Appendix C)
Tool Kit, Genl Mech (Item 44, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C)
Socket Set, Socket Wrench (Item 35, Appendix C)
Tool Kit, Blind Rivet (Item 43, Appendix C)
Drill, Portable, Electric (Item 7, Appendix C)
Drill Set, Twist (Item 6, Appendix C)

Materials/Parts

Cap and Plug Set (Item 15, Appendix D)
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Ties, Cable, Plastic (Item 76, Appendix D)

Materials/Parts (Cont)

Antifreeze, Ethylene Glycol, Permanent (Item 13, Appendix D)

Rivet, Blind (12) (Item 236, Appendix G)

Gasket (Item 31, Appendix G)

Gasket (Item 38, Appendix G)

Seal (Item 247, Appendix G)

Gasket (Item 33, Appendix G)

Gasket (Item 39, Appendix G)

Gasket (2) (Item 34, Appendix G)

Gasket (Item 35, Appendix G)

Gasket (Item 36, Appendix G) Rag, Wiping (Item 51, Appendix D)

Solvent, Dry Cleaning (Item 571 Appendix D)

Soap, Laundry (Item 69, Appendix D)

Gasket (3) (Item 41, Appendix G)

Gasket (Item 37, Appendix G)

Plastic Strip (Item 212, Appendix G)

Nut, Self-Locking (6) (Item 156, Appendix G) Nut, Self-Locking (3) (vehicle serial numbers 0001 through 3696 equipped with original personnel heaters) (Item 156, Appendix G)

Decal (Item 9, Appendix G)

NOTE

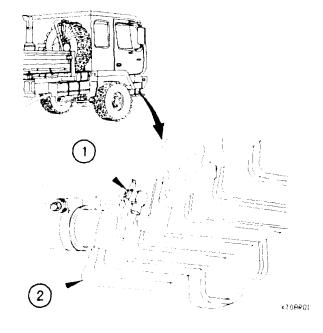
Perform steps (1) through (25) to remove personnel heater for access.

a. Removal.

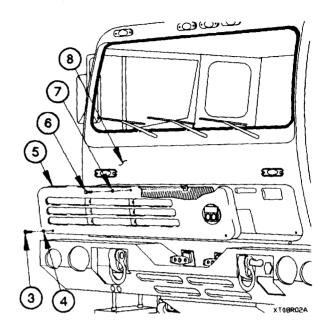
WARNING

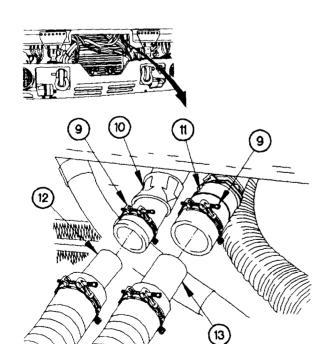
Wear appropriate eye protection when working under vehicle due to the possibility of falling debris. Failure to comply may result in injury to personnel.

- (1) Position drain pan under radiator draincock (1).
- (2) Open radiator draincock (1) and drain approximately 15-20 qt (14-19 L) of coolant from radiator (2).
- (3) Close radiator draincock (1).



- (4) Remove two screws (3) and washers (4) from front grille (5).
- (5) Remove screw (6) and washer (7) from front grille (5).
- (6) Remove front grille (5) from cab (8).





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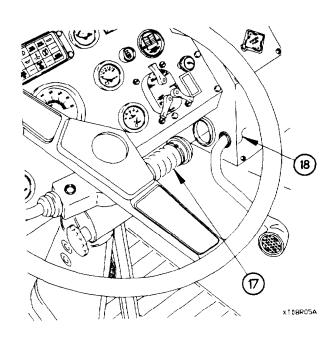
(7) Loosen two clamps (9) on heater outlet hose (10) and heater inlet hose (11).

NOTE

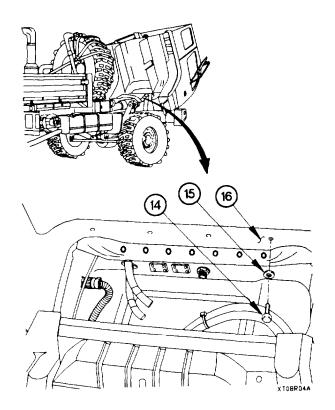
Tag heater hoses prior to disconnecting.

- (8) Disconnect heater outlet hose (10) and heater inlet hose (11) from return fitting (12) and supply fitting (13).
- (9) Remove two clamps (9) from heater outlet hose (10) and heater inlet hose (11).

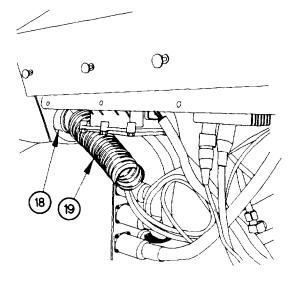
- (10) Raise cab (TM 9-2320-365-10).
- (11) Remove eight screws (14) and washers (15) from cab floor (16).
- (12) Lower cab (TM 9-2320-365-10).



(14) Remove personnel heater air duct (19) from personnel heater (18).

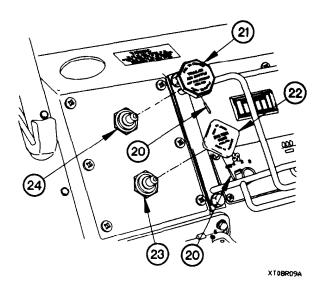


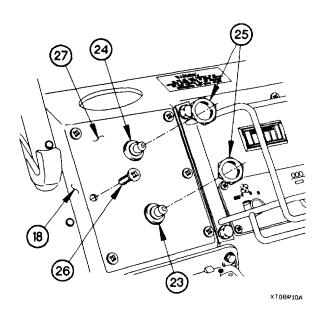
(13) Remove personnel heater air duct (17) from personnel heater (18).



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(15) Remove two roll pins (20) and knobs (21 and 22) from SYSTEM PARK valve (23) and TRAILER AIR SUPPLY valve (24).



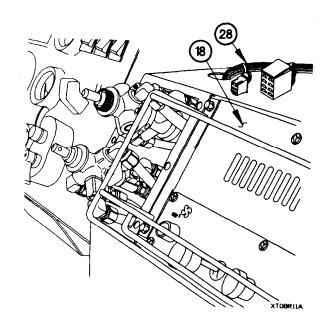


- (16) Remove two nuts 125) from SYSTEM PARK valve (23) and TRAILER AIR SUPPLY valve (24).
- (17) Remove six screws (26) and valve panel (27) from personnel heater (18).

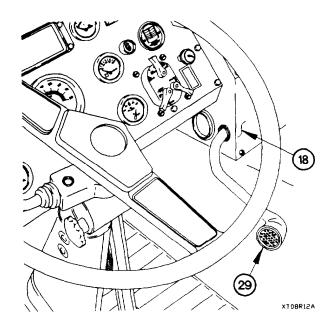
NOTE

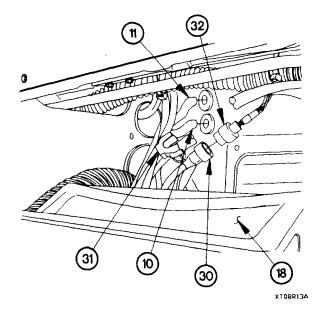
Perform step (18) on vehicles equipped with auxiliary panel.

(18) Remove auxiliary panel cable assembly (28) from personnel heater (18).



(19) Route CTIS ECU cable P110 (29) in through hole in side of personnel heater (18).





- (20) Pull personnel heater (18) out enough to access personnel heater connector (30).
- (21) Remove connector clamp (31) from personnel heater connector (30).
- (22) Disconnect personnel heater connector (30) from connector PX25 (32).

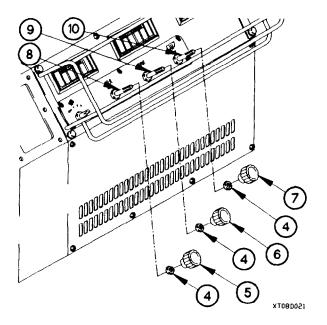
NOTE

Tag personnel heater hose and grommet opening in cab floor.

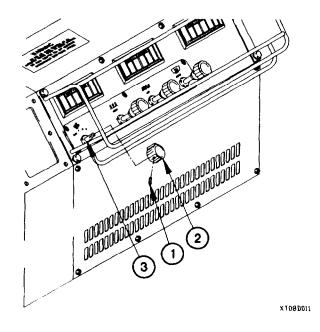
(23) Remove personnel heater (18) and hoses (10 and 11) from vehicle.

b. Disassembly.

- (1) Loosen two set screws (1) in fan switch knob (2).
- (2) Remove fan switch knob (2) from fan switch (3).



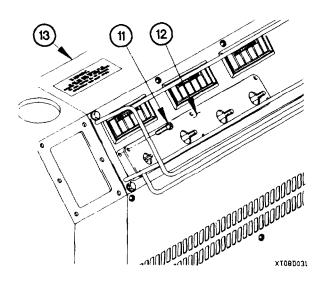
(6) Remove six screws (11) and control panel (12) from personnel heater (13).



NOTE

Perform steps (3) and (5) on vehicle serial numbers 0001 through 3696 equipped with original personnel heaters.

- (3) Loosen three self-locking nuts (4) on knobs (5, 6, and 7).
- (4) Remove knobs (5, 6, and 7) from HEAT control cable (8), VENT control cable (9), and DEFR control cable (10).
- (5) Remove three self-locking nuts (4) from HEAT control cable (8), VENT control cable (9), and DEFR control cable (10). Discard self-locking nuts.



NOTE

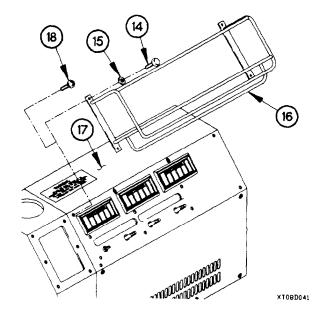
Perform step (7) on vehicles equipped with personnel heater control guard.

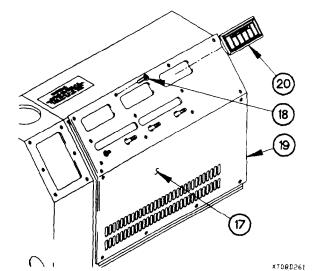
(7) Remove four screws (14), washers (15), and personnel heater control guard (16) from personnel heater (17).

NOTE

Perform step (8) on vehicles not equipped with personnel heater control guard.

(8) Remove four screws (18) from personnel heater (17). Discard screws.





(9) Remove seven screws (18) and cover (19) from personnel heater (17).

CAUTION

Use care when releasing four retaining clips on each louver and removing louvers from cover. Failure to comply may result in damage to equipment.

NOTE

Note position of louvers prior to removal.

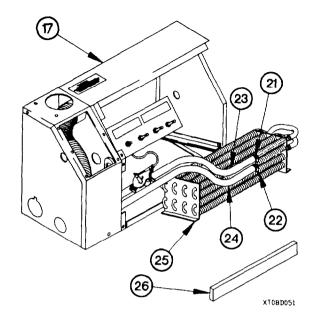
(10) Remove three louvers (20) from cover (19).

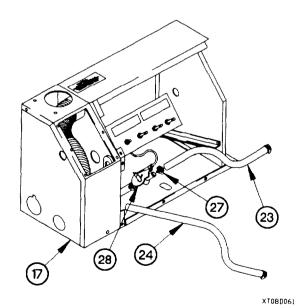
CAUTION

Cap or plug hoses and personnel heater coil to prevent contamination of cooling system. Failure to comply may result in damage to equipment.

NOTE

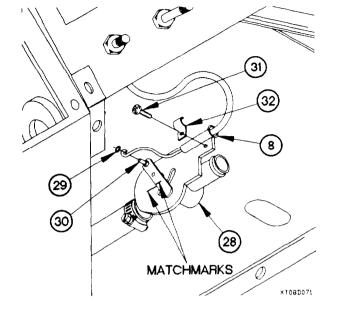
- Tag hoses prior to disconnecting.
- Remove plastic cable ties as required.
- (11) Loosen clamps (21 and 22) on hoses (23 and 24).
- (12) Disconnect hoses (23 and 24) from personnel heater coil (25).
- (13) Remove clamps (21 and 22) from hoses (23 and 24).
- (14) Remove personnel heater coil (25) from personnel heater (17).
- (15) Remove seal (26) from personnel heater coil (25).

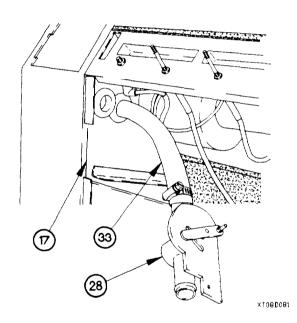




- (16) Remove hose (24) from personnel heater (17).
- (17) Loosen clamp (27) on hose (23).
- (18) Disconnect hose (23) from valve (28).
- (19) Remove clamp (27) from hose (23).

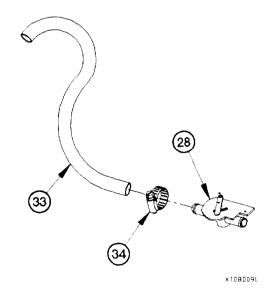
- (20) Remove push nut (29) from valve shaft (30).
- (21) Match mark valve shaft (30) to valve (28).
- (22) Remove screw (31) and cable clamp (32) from valve (28).
- (23) Remove HEAT control cable (8) from valve shaft (30).





(24) Remove valve (28) and hose (33) from personnel heater (17).

- (25) Loosen clamp (34) on hose (33).
- (26) Disconnect hose (33) from valve (28).
- (27) Remove clamp (34) from hose (33).

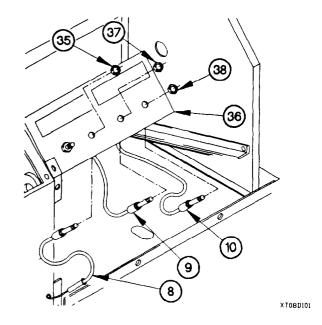


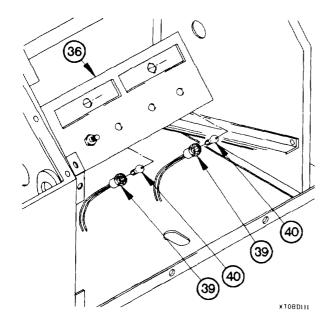
(28) Remove locking nut (35) from HEAT control cable (8).

NOTE

Tag cables prior to removal.

- (29) Remove HEAT control cable (8) from control plate (36).
- (30) Remove locking nut (37) from VENT control cable (9).
- (31) Remove VENT control cable (9) from control plate (36).
- (32) Remove locking nut (38) from DEFR control cable (10).
- (33) Remove DEFR control cable (10) from control plate (36).



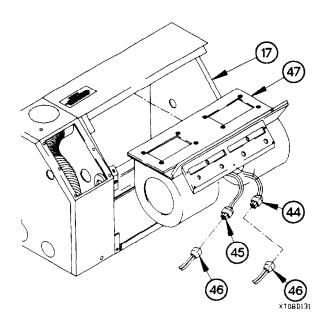


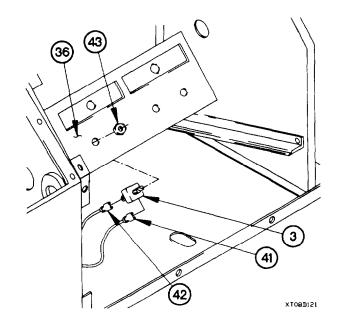
- (34) Remove two lamp sockets (39) from control plate (36).
- (35) Remove two lamps (40) from lamp sockets (39).

NOTE

Tag connectors and connection points prior to disconnecting.

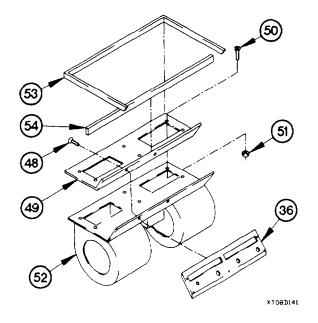
- (36) Disconnect connectors (41 and 42) from fan switch
- (37) Remove locking nut (43) and fan switch (3) from control plate (36).



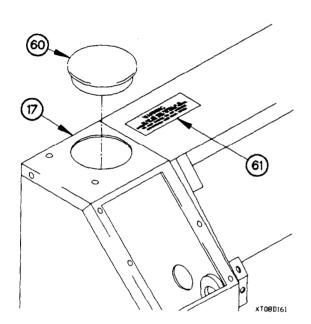


- (38) Disconnect connectors (44 and 45) from electrical harness (46).
- (39) Remove blower (47) from personnel heater (17).

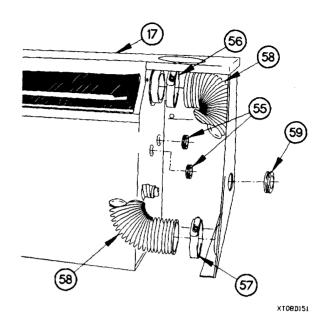
- (40) Remove two screws (48) and control plate (36) from blower plate (49).
- (41) Remove six screws (50), self-locking nuts (51), and blower plate (49) from blower motor (52). Discard self-locking nuts.
- (42) Remove seal (53) from blower plate (49). Discard seal
- (43) Remove seal (54) from blower plate (49). Discard seal.



- (44) Remove two grommets (55) from personnel heater (17).
- (45) Loosen clamps (56 and 57) on duct (58).
- (46) Disconnect duct (58) from personnel heater (17).
- (47) Remove clamps (56 and 57) from duct (58).
- (48) Remove grommet (59) from personnel heater (17).



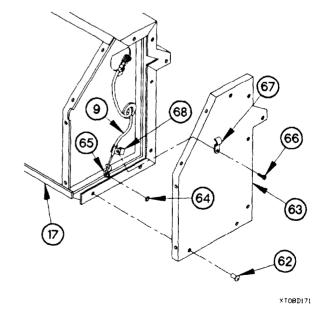
- (51) Remove seven rivets (62) and cover (63) from personnel heater (17).
- (52) Remove push nut (64) from vent door shaft (65).
- (53) Remove screw (66) and cable clamp (67) from bracket (68).
- (54) Remove VENT control cable (9) from vent door shaft (65).
- (55) Remove VENT control cable (9) from personnel heater (17).
- (56) Remove cable clamp (67) from VENT control cable (9).



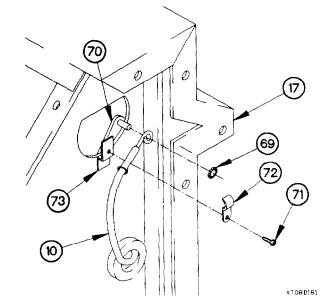
NOTE

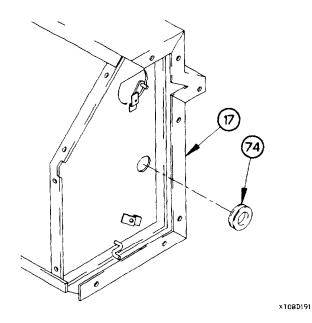
Perform steps (49) and (50) on vehicles not equipped with auxiliary panel.

- (491 Remove plug (60) from personnel heater (17).
- (50) Remove decal (61) from personnel heater (17). Discard decal.



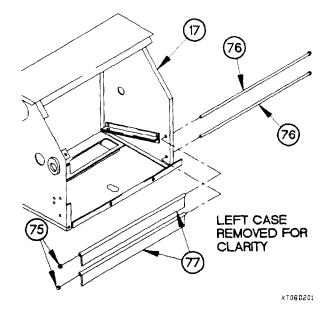
- (57) Remove push nut (69) from defrost door shaft (70).
- (58) Remove screw (71) and cable clamp (72) from bracket (73).
- (59) Remove DEFR control cable (10) from defrost door shaft (70).
- (60) Remove DEFR control cable (10) from personnel heater (17).
- (61) Remove cable clamp (72) from DEFR control cable (10).



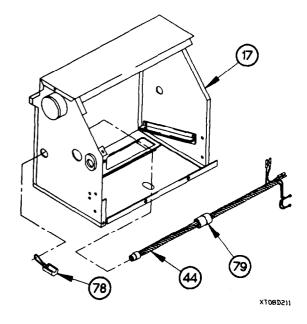


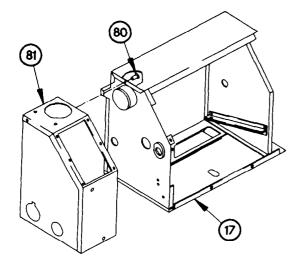
(62) Remove grommet (74) from personnel heater (17).

- (63) Remove two push nuts (75) from shafts (76).
- (64) Remove two shafts (76) and air seals (77) from personnel heater (17).



- (65) Remove cable stay (78) from electrical harness (44).
- (66) Remove grommet (79) and electrical harness (44) from personnel heater (17).

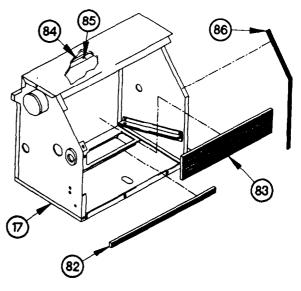




(67) Remove five rivets (80) and left case (81) from personnel heater (17).

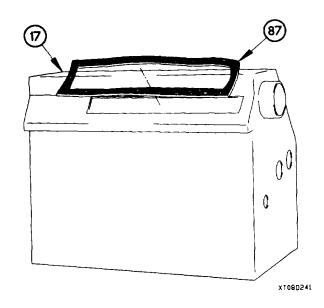
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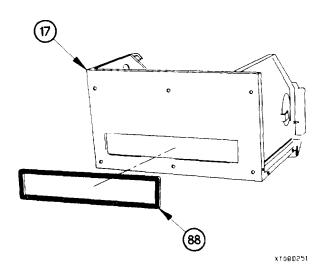
- (68) Remove gaskets (82 and 83) from personnel heater (17). Discard gaskets.
- (69) Remove gaskets (84) from defrost door (85). Discard gaskets.
- (70) Remove gaskets (86) from personnel heater (17). Discard gaskets.



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(71) Remove seal (87) from personnel heater (17).





(72) Remove seal (88) from personnel heater (17).

c. Cleaning/Inspection.

WARNING

- Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well-ventilated area; avoid contact with skin, eyes, and clothes, and do not breathe vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I Dry Cleaning Solvent is 100°F (38°C) and for Type II is 130°F (50°C). Failure to comply may result in serious injury or death to personnel.
- If personnel become dizzy while using cleaning solvent, immediately get fresh air and medical help.
 If dry cleaning solvent contacts skin or clothes, flush with cold water. If dry cleaning solvent contacts eyes, immediately flush eyes with water and get immediate medical attention. Failure to comply may result in injury to personnel.
- (1) Clean metal parts with dry cleaning solvent.

NOTE

Replace any part that fails visual inspection.

(2) Inspect all parts for visible cracks or damage.

NOTE

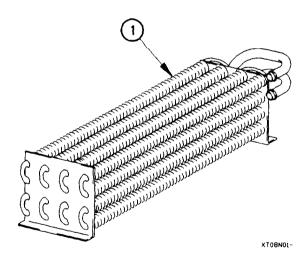
Perform step (3) if personnel heater coil is to be 'reused.

(3) Clean personnel heater coil (1) with soap and water.

WARNING

Compressed air used for cleaning purposes will not exceed 30 psi (207 kPa). Use only with effective chip guarding and personal protective equipment (goggles/shield, gloves, etc). Failure to comply may result in injury to personnel.

(4) Dry personnel heater coil (1) with compressed air.

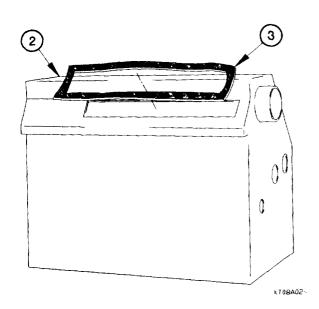


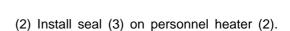
d. Assembly

CAUTION

Seals used on the personnel heater have double-sided tape attached. Use care when installing these seals. Failure to comply may result in damage to equipment.

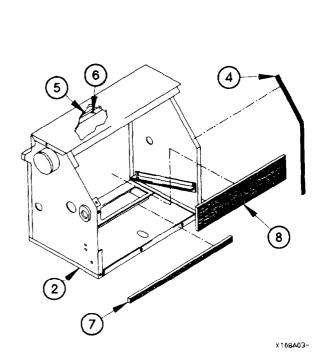
(1) Install seal (1) on personnel heater (2).





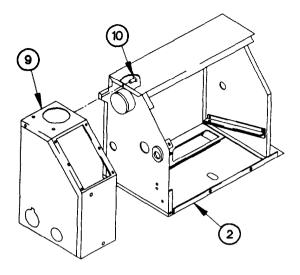
2

- (3) Install gasket (4) on personnel heater (2).
- (4) Install gasket (5) on defrost door (6).
- (5) Install gaskets (7 and 8) on personnel heater (2).

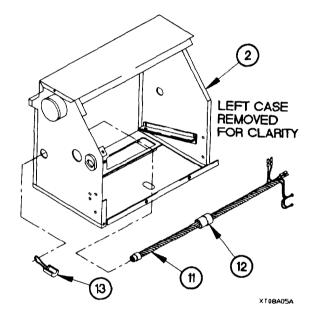


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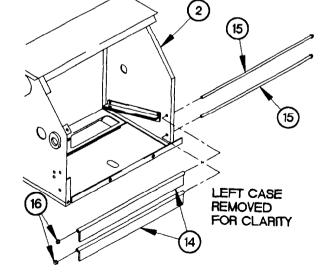
(6) Install left case (9) on personnel heater (2) with five rivets (10).



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- (7) Install electrical harness (11) and grommet (12) in personnel heater (2).
- (8) Install cable stay (13) on electrical harness (11).

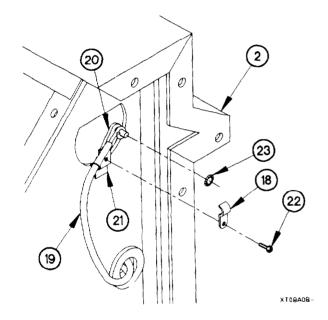


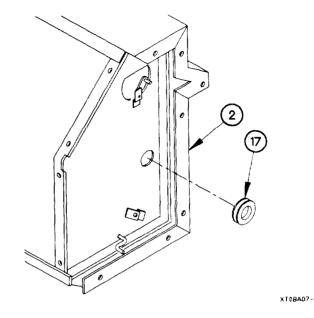
(10) Install two push nuts (16) on shafts (15).

heater (2).

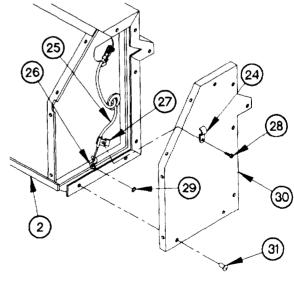
(9) Position two air seals (14) on shafts (15) in personnel

(11) Install grommet (17) in personnel heater (2).





- (12) Position cable clamp (18) on DEFR control cable (19).
- (13) Position DEFR control cable (19) in personnel heater (2).
- (14) Position DEFR control cable (19) on defrost door shaft (20).
- (15) Install cable clamp (18) on bracket (21) with screw (22).
- (16) Install push nut (23) on defrost shaft (20).
- (17) Position cable clamp (24) on VENT control cable (25).
- (18) Position VENT control cable (25) in personnel heater (2).
- (19) Position VENT control cable (25) on vent door shaft (26).
- (20) Install cable clamp (24) on bracket (27) with screw (28).
- (21) Install push nut (29) on vent door shaft (26).
- (22) Install cover (30) on personnel heater (2) with seven rivets (31).



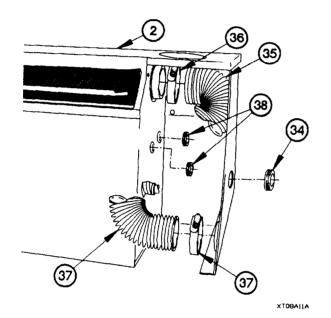
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NOTE

Perform steps (23) and (24) on vehicles not equipped with auxiliary panel.

- (23) Install decal (32) on personnel heater (2).
- (24) Install plug (33) in personnel heater (2).

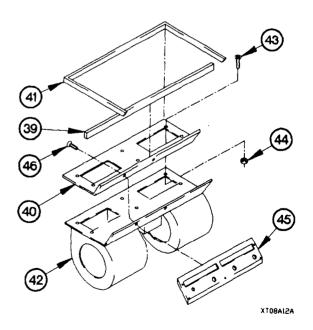


(25) Install grommet (34) in personnel heater (2).

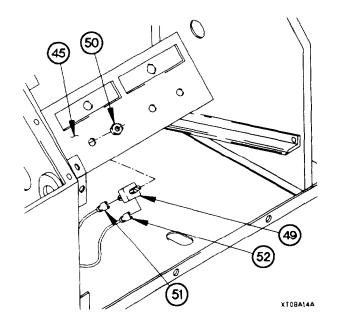
2

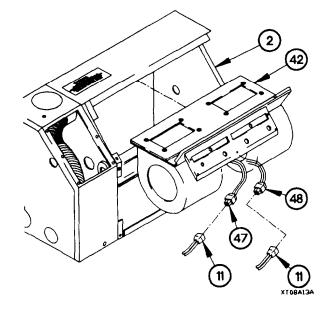
- (26) Install duct (35) on personnel heater (2) with clamps (36 and 37).
- (27) Install two grommets (38) in personnel heater (2).

- (28) Install seal (39) on blower plate (40).
- (29) Install seal (41) on blower plate (40).
- (30) Install blower plate (40) on blower (42) with six screws (43) and self-locking nuts (44).
- (31) Install control plate (45) on blower plate (40) with two screws (46).

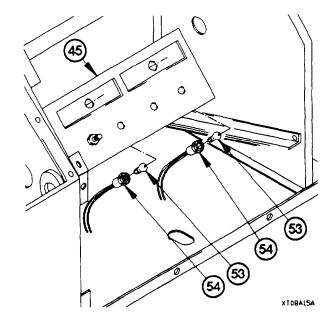


- (32) Position blower (42) in personnel heater (2).
- (33) Connect connectors (47 and 48) to electrical harness (11).



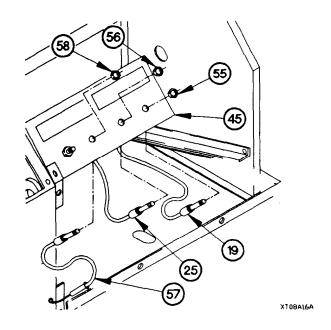


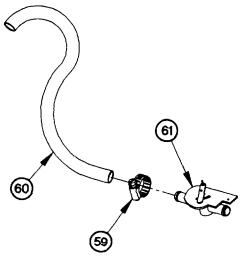
- (34) Install fan switch (49) on control plate (45) with locking nut (50).
- (35) Connect connectors (51 and 52) to fan switch (49).



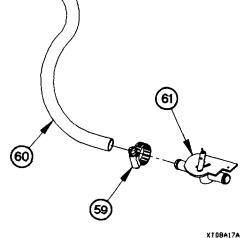
- (36) Install two lamps (53) in lamp sockets (54).
- (37) Install two lamp sockets (54) on control plate (45).

- (38) Position DEFR control cable (19) on control plate (45).
- (39) Install locking nut (55) on DEFR control cable (19).
- (40) Position VENT control cable (25) on control plate (45).
- (41) Install locking nut (56) on VENT control cable (25).
- (42) Position HEAT control cable (57) on control plate (45).
- (43) Install locking nut (58) on HEAT control cable (57).

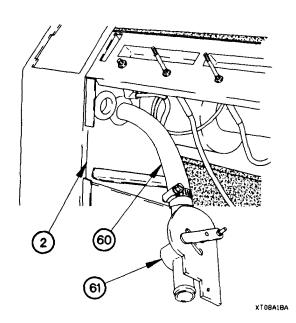




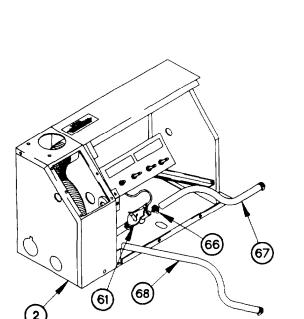
- (44) Position clamp (59) on hose (60).
- (45) Connect hose (60) to valve (61).
- (46) Tighten clamp (59) to 35-45 lb-in. (4-5 Nem).

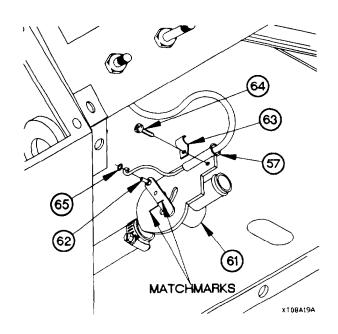


(47) Position hose (60) and valve (61) in personnel heater (2).



- (48) Position HEAT control cable (57) on valve shaft (62) with matchmarks aligned.
- (49) Install cable clamp (63) on valve (61) with screw (64).
- (50) Install push nut (65) on valve shaft (62).



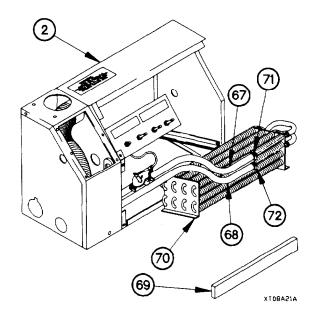


- (51) Position clamp (66) on hose (67).
- (52) Connect hose (67) to valve (61).
- (53) Tighten clamp (66) to 35-45 lb-in. (4-5 N•m).
- (54) Position hose (68) in personnel heater (2).

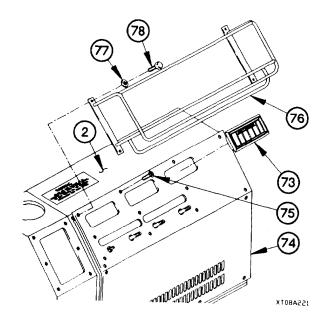
- (55) Install seal (69) on personnel heater coil (70).
- (56) Position personnel heater coil (70) in personnel heater (2).

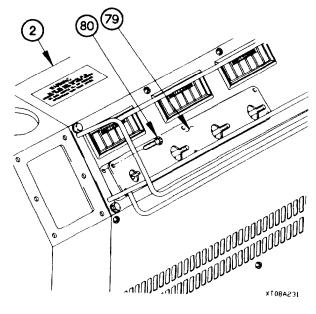
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- (57) Position clamps (71 and 72) on hoses (67 and 68).
- (58) Connect hoses (67 and 68) to personnel heater coil (70).
- (59) Tighten clamps (71 and 72) to 35-45 lb-in. (4-5 Nem).



- (60) Install three louvers (73) on cover (74).
- (61) Install cover (74) on personnel heater (2) with seven screws (75).
- (62) Position personnel heater control guard (76) on cover (74) with four washers (77) and screws (78).
- (63) Tighten four screws (78) to 39-59 lb-in. (4-7 N•m).



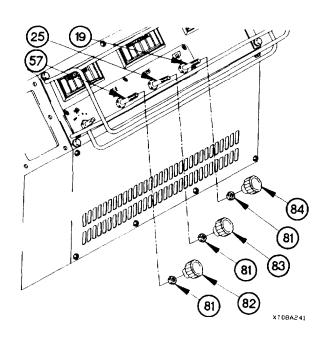


NOTE

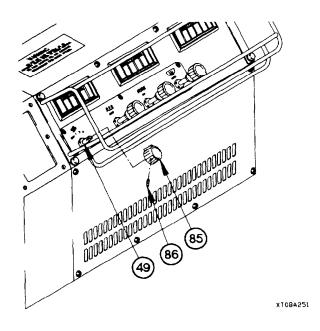
Perform steps (65) and (67) on vehicle serial numbers 0001 through 3696 equipped with original personnel heaters,

- (65) Position three self-locking nuts (81) on DEFR control cable (19), VENT control cable (25), and HEAT control cable (57).
- (66) Install knobs (82, 83, and 84) on DEFR control cable (19), VENT control cable (25), and HEAT control cable (57).
- (67) Tighten three self-locking nuts (81) on knobs (82, 83, and 84).

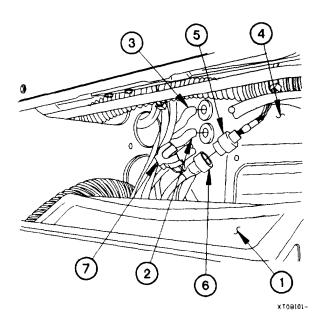
(64) Install control Panel (79) on personnel heater (2) with six screws (80).



- (68) Position fan switch knob (85) on fan switch (49).
- (69) Tighten two set screws (86) on fan switch knob (85).



e. Installation.

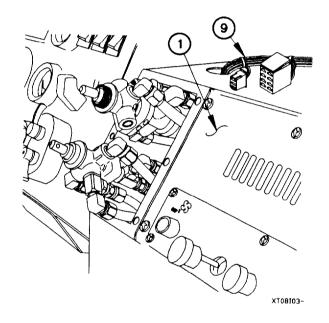


NOTE

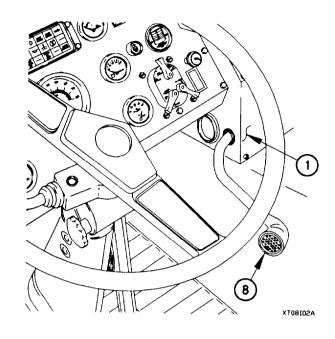
Install plastic cable ties as required.

- (1) Position personnel heater (1) in vehicle.
- (2) Position heater outlet hose (2) and heater inlet hose (3) through cab floor (4).
- (3) Connect connector PX25 (5) to personnel heater connector (6).
- (4) Install connector clamp (7) on personnel heater connector (6).
- (5) Position personnel heater (1) in mounting position.

(6) Position CTIS ECU cable P110 (8) in personnel heater (1).



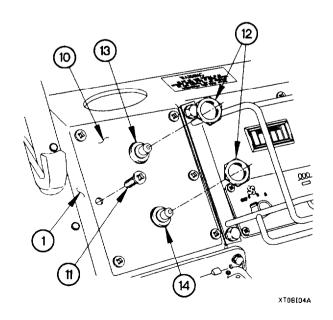
- (8) Install valve panel (10) on personnel heater (1) with six screws (11).
- (9) Install self-locking nuts (12) on TRAILER AIR SUPPLY valve (13) and SYSTEM PARK valve (14).



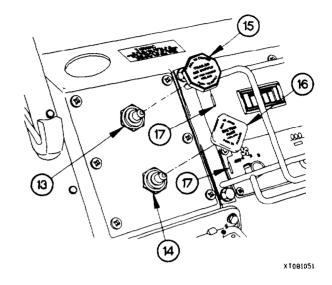
NOTE

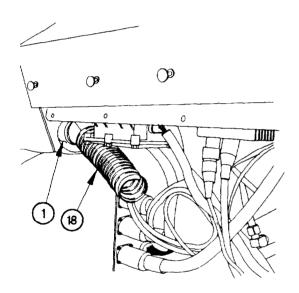
Perform step (7) on vehicles equipped with auxiliary panel.

(7) Position auxiliary panel cable assembly (9) through personnel heater (1).



(10) Install knobs (15 and 16) on TRAILER AIR SUPPLY valve (13) and SYSTEM PARK valve (14) with roll pins (17).

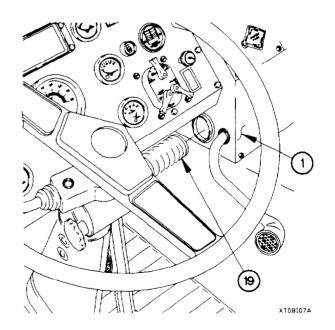




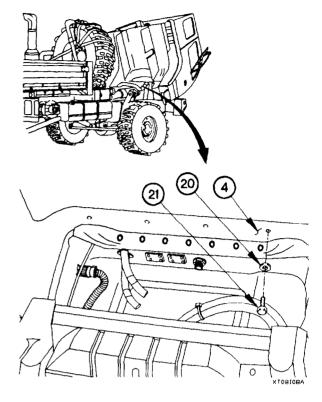
(11) Install personnel heater air duct (18) on personnel heater (1).

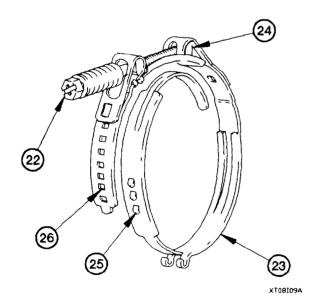
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(12) Install personnel heater air duct (19) on personnel heater (1).



- (13) Raise cab (TM 9-2320-365-10).
- (14) Position eight washers (20) and screws (21) in cab floor (4).
- (15) Tighten eight screws (21) to 15-18 lb-ft (20-24 N•m).
- (16) Lower cab (TM 9-2320-365-10).





- (17) Loosen two screws (22) in clamps (23) as far as possible without disengaging screws from D-nuts (24).
- (18) Unhook clamp tabs (25) from tab windows (26).

CAUTION

Ensure clamp tongue is started in clamp groove. Failure to comply may result in damage to equipment.

- (19) Position clamp (23) on heater outlet hose (2).
- (20) Position clamp (23) on heater inlet hose (3).

NOTE

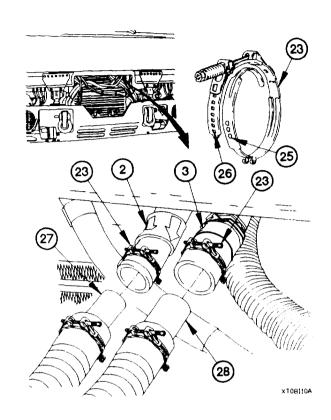
Heater outlet hose is marked with an arrow pointing down.

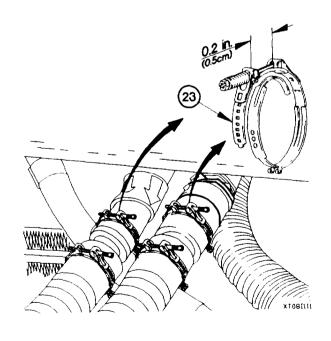
(21) Position heater outlet hose (2) on return fitting (27).

NOTE

Heater inlet hose is marked with an arrow pointing up.

(22) Position heater inlet hose (3) on supply fitting (28).





- (23) Engage as many clamp tabs (25) as possible in tab windows (26) allowing little or no play between clamps (23) and heater outlet hose (2) and heater inlet hose (3).
- (24) Tighten two clamps (23) to 12-18 lb-in. (1-2 N•m).

NOTE

Minimum allowable gap between ends of clamp is 0.2 in. (0.5 cm). If gap is less than 0.2 in. (0.5 cm), remove and re-install clamp.

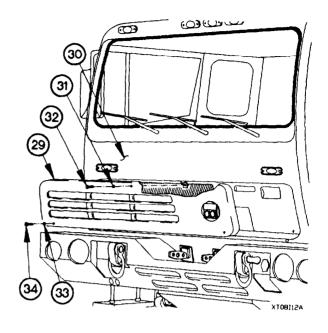
(25) Measure gap between ends of two clamps (23).

- (26) Position front grille (29) on cab (30) with washer (31) and screw (32).
- (27) Position two washers (331 and screws (34) in front grille (29).
- (28) Tighten screw (32) to 48-60 lb-in. (5-7 Nem).
- (29) Tighten two screws (34) to 24 lb-in. (3 Nom).

f. Follow-On Maintenance.

- (1) Install kick panel (para 16-3).
- (2) Install auxiliary panel (para 7-8), if equipped.
- (3) Install CTIS ECU (para 12-6).
- (4) Start engine and check for leaks (TM 9-2320-365-10).
- (5) Add coolant as required (TM 9-2320-365-10).
- (6) Operate personnel heater, checking for proper operation and for coolant leaks (TM 9-2320-365-10).
- (7) Shut down engine (TM 9-2320-365-10).

End of Task.



18-10. HEATER FAN CONTROL SWITCH REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Batteries disconnected (para 7-48). CTIS ECU removed (para 12-6).

Tools and Special Tools

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

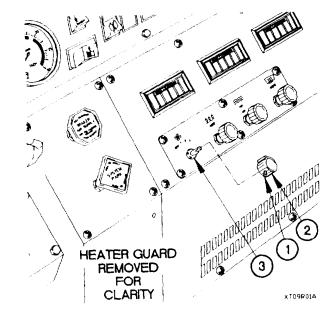
Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)

Nut, Self-Locking (3) (vehicle serial numbers 0001 through 3696 equipped with original personnel heaters) (Item 156, Appendix G)

a. Removal.

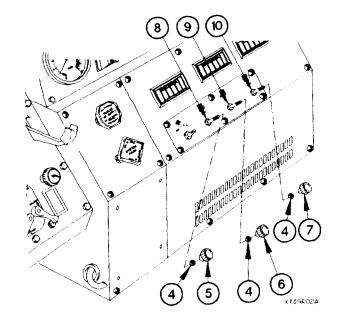
- (1) Loosen two setscrews (1) in heater fan control switch knob (2).
- (2) Remove heater fan control switch knob (2) from heater fan control switch (3).



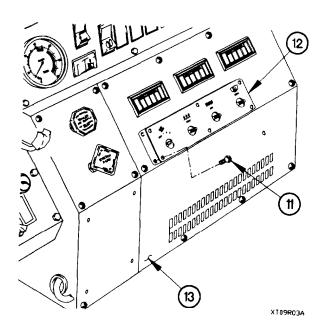
NOTE

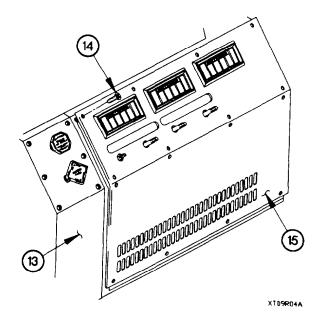
Perform steps (3) and (5) on vehicle serial numbers 0001 through 3696 equipped with original personnel heaters.

- (3) Loosen three self-locking nuts (4) on knobs (5, 6, and 7).
- (4) Remove knobs (5, 6, and 7) from HEAT control cable (8), VENT control cable (9), and DEFR control cable (10).
- (5) Remove three self-locking nuts (4) from HEAT control cable (8), VENT control cable (9), and DEFR control cable (10). Discard self-locking nuts.



(6) Remove six screws (11) and control panel (12) from personnel heater (13).





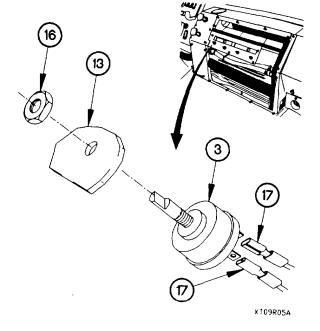
(7) Remove 12 screws (14) and cover (15) from personnel heater (13).

(8) Remove nut (16) and heater fan control switch (3) from personnel heater (13).

NOTE

Tag connectors and connection points prior to disconnecting.

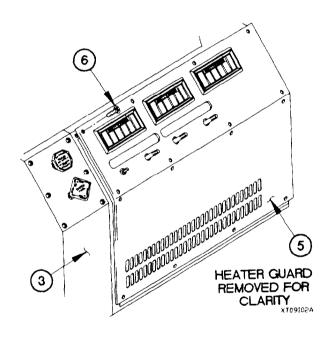
(9) Disconnect two connectors 1601 (17) from heater fan control switch (3).

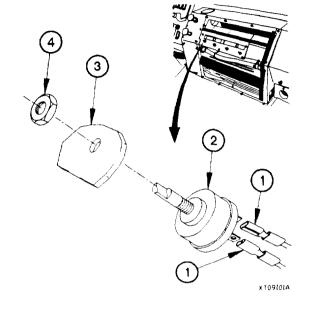


18-10. HEATER FAN CONTROL SWITCH REPLACEMENT (CONT)

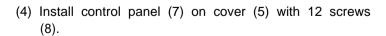
b. Installation.

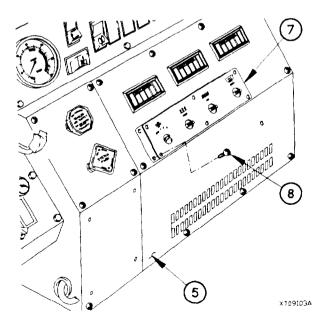
- (1) Connect two connectors 1601 (1) to heater fan control switch (2).
- (2) Install heater fan control switch (2) in personnel heater (3) with nut (4).





(3) Install cover (5) on personnel heater (3) with 12 screws (6).

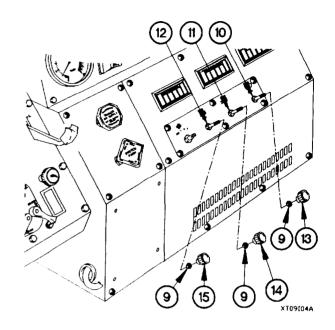


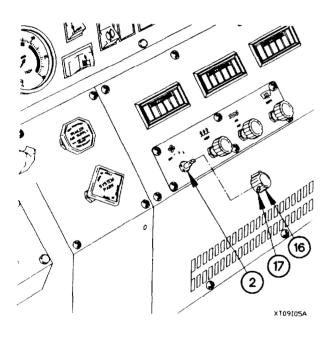


NOTE

Perform steps (5) and (7) on vehicle serial numbers 0001 through 3696 equipped with original personnel heaters.

- (5) Position three self-locking nuts (9) on DEFR control cable (10), VENT control cable (11), and HEAT control cable (12).
- (6) Install knobs (13, 14, and 15) on DEFR control cable (10), VENT control cable (11), and HEAT control cable (12).
- (7) Tighten three self-locking nuts (9) on knobs (13, 14, and 15).





- (8) Position heater fan control switch knob (16) on heater fan control switch (2).
- (9) Tighten two setscrews (17) in heater fan control switch knob (16).

c. Follow-On Maintenance.

- (1) Install CTIS ECU (para 12-6).
- (2) Connect batteries (para 7-48).
- (3) Check heater fan operation (TM 9-2320-365-10).

End of Task.

18-11. PERSONNEL HEATER CONTROL GUARD REPLACEMENT

This task covers:

a. Removal

b. Installation

INITIAL SETUP

Equipment Conditions

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

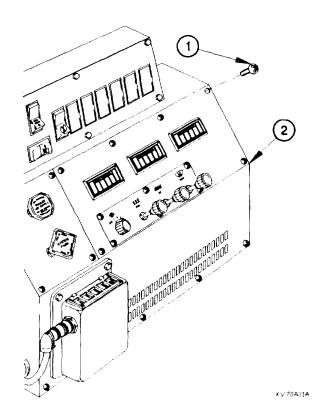
Tools and Special Tools

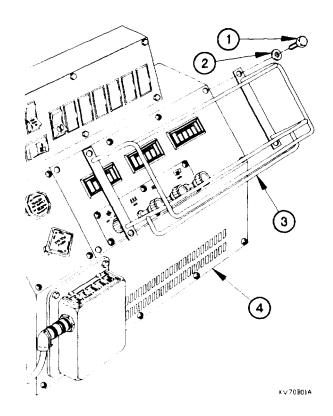
Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C) Socket Set, Socket Wrench (Item 34, Appendix C)

a. Removal.

Remove four screws (1), washers (2), and personnel heater control guard (3) from personnel heater (4).

b. Installation





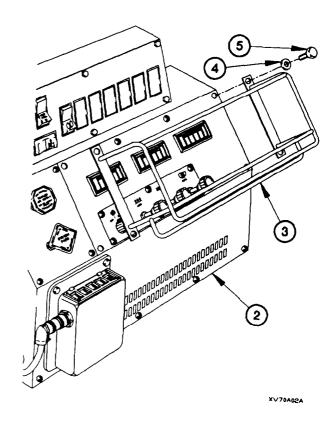
NOTE

Perform step (1) on vehicles not equipped with personnel heater guard.

(1) Remove four screws (1) from personnel heater (2). Discard screws.

- (2) Position Personnel heater control guard (3) on Personnel heater (2) with four washers (4) and screws (5).
- (3) Tighten screws (5) to 39-59 lb-in. (5-7 N•m).

End of Task.



18-12. COLD WEATHER RADIATOR COVER 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). Cab raised (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)

a. Installation.

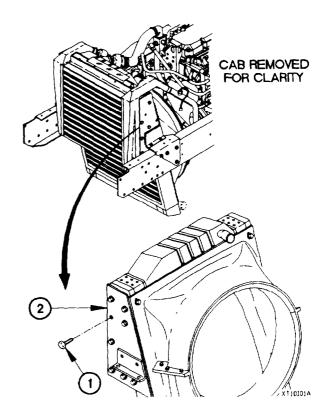
CAUTION

Install cold weather radiator cover when outside temperature is below 40°F (4°C). Cold weather radiator cover must remain on vehicle in outside temperatures of -26°F to -50°F (-32°C to -46°C). Failure to comply may result in damage to equipment.

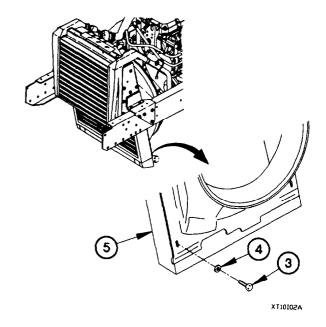
NOTE

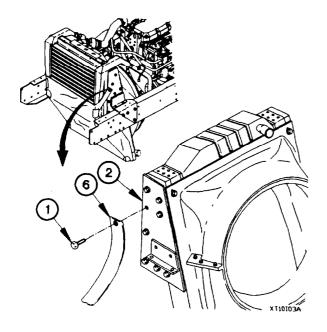
Left and right sides of cold weather radiator cover are installed the same way. Left side shown.

(1) Remove two screws (1) from charge air cooler (2).



(2) Remove two screws (3) and washers (4) from bottom corners of radiator (5).





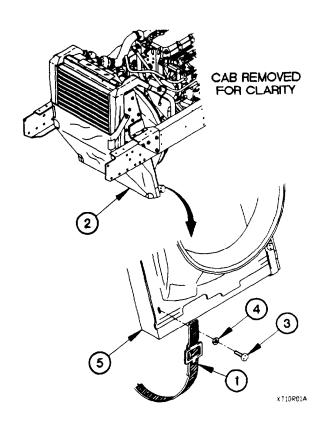
- (3) Position cold weather radiator cover (6) over charge air cooler (2) with two screws (1).
- (4) Tighten two screws (1) to 21-26 lb-ft (28-35 Nom).

18-12. COLD WEATHER RADIATOR COVER INSTALLATION/REMOVAL (CONT)

- (5) Position cold weather radiator cover (6) over radiator (5) with two straps (7), washers (4), and screws (3).
- (6) Tighten two screws (3) to 21-26 lb-ft (28-35 Nom).
- (7) Tighten two straps (7) until all slack is removed from cold weather radiator cover (6).
- (8) Perform steps (1) through (7) on right side of cold weather radiator cover.

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b. Removal.



Cold weather radiator cover should be removed when outside temperature is above 40°F (4°C). Cold weather radiator cover may be removed any time outside temperature is above 32°F (0°C), and must be removed before outside temperature reaches 70°F (21°C). Failure to comply may result in damage to equipment.

NOTE

Left and right sides of cold weather radiator cover are removed the same way. Left side shown.

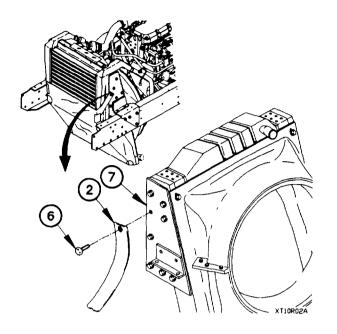
- (1) Loosen two straps (1) on cold weather radiator cover (2).
- (2) Remove two screws (3), washers (4), and cold weather radiator cover (2) from bottom corners of radiator (5).
- (3) position two washers (4) and screws (3) in radiator (5).
- (4) Tighten two screws (3) to 21-26 lb-ft (28-35 N•m).

- (5) Remove two screws (6) and cold weather radiator cover (2) from charge air cooler (7).
- (6) Position two screws (6) in charge air cooler (7).
- (7) Tighten two screws (6) to 21-26 lb-ft (28-35 N•m).
- (8) Perform steps (1) through (7) on right side of cold weather radiator cover.

c. Follow-On Maintenance.

Lower cab (TM 9-2320-365-10).

End of Task.



CHAPTER 19 HYDRAULIC SYSTEM MAINTENANCE

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Section I. INTRODUCTION

19-1. INTRODUCTION

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

Section II. MAINTENANCE PROCEDURES

19-2. BACK-UP HYDRAULIC PUMP REPLACEMENT

This task covers:

a. Removal

b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

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

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C) Gloves, Rubber (Item 13, Appendix C) Goggles, Industrial (Item 15, Appendix C)

Materials/Parts

Cap and Plug Set (Item 15, Appendix D)
Dispenser, Pressure Sensitive Adhesive Tape
(Item 21, Appendix D)
Packing, Preformed (2) (Item 166, Appendix G)
Hydraulic Fluid A (Item 26, Appendix D)

a. Removal.

(1) Remove two screws (1), washers (2), and cover (3) from back-up hydraulic pump (4).

WARNING

Hydraulic fluid (MIL-L-5606) is TOXIC. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that come in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

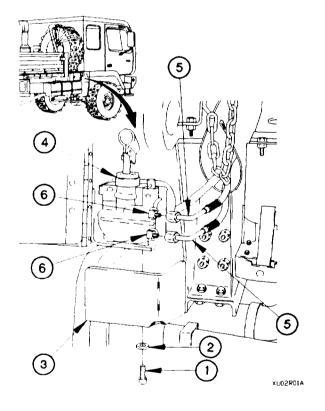
CAUTION

Cap or plug hydraulic hoses and connection points to prevent contamination of hydraulic system. Failure to comply may result in damage to equipment.

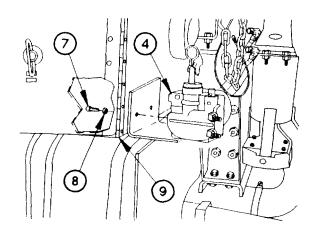
NOTE

Tag hoses and connection points prior to disconnecting.

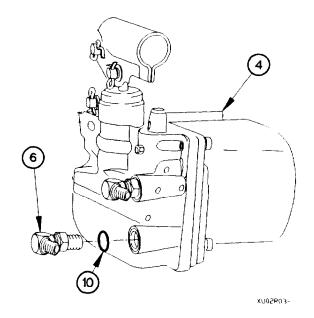
(2) Disconnect two hydraulic hoses (5) from 90-degree fittings (6).



(3) Remove two screws (7), washers (8), and back-up hydraulic pump (4) from tool box (9).



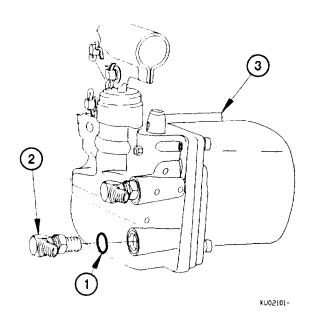
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- (4) Remove two 90-degree fittings (6) from back-up hydraulic pump (4).
- (5) Remove two preformed packings (10) from 90-degree fittings (6). Discard preformed packings.

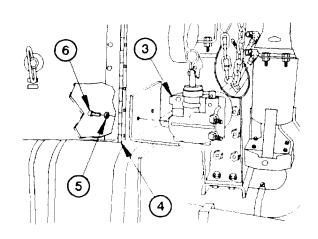
b. Installation.

- (1) Install two preformed packings (1) on 90-degree fittings (2).
- (2) Install two 90-degree fittings (2) in back-up hydraulic pump (3).

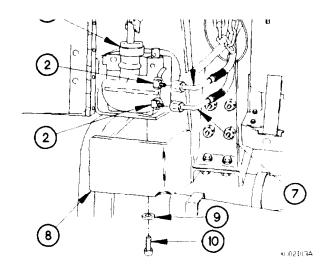


19-2. BACK-UP HYDRAULIC PUMP REPLACEMENT (CONT)

(3) Position back-up hydraulic pump (3) on tool box (4) with two washers (5) and screws (6).







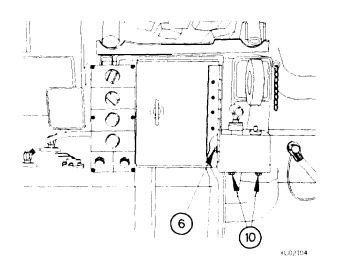
- (4) Install two hydraulic hoses (7) on 90-degree fittings (2).
- (5) Position cover (8) on back-up hydraulic pump (3) with two washers (9) and screws (10).

(6) Tighten screws (6 and 10) to 18-28 lb-ft (24-38 N•m).

c. Follow-On Maintenance

Fill air transportability hydraulic system (Appendix H).

End of Task.



19-3. AIR/HYDRAULIC POWER UNIT AND BRACKET REPLACEMENT

This task covers:

- a. Air/Hydraulic Power Unit Removal
- b. Air/Hydraulic Power Unit Installation
- c. Bracket Removal

- d. Bracket Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Spare tire lowered (TM 9-2320-365-10). M13 decontamination unit removed, if equipped (TM 3-4230-214-12&P).

Air springs deflated (TM 9-2320-365-10).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C) Gloves, Rubber (Item 13, Appendix C) Goggles, Industrial (Item 15, Appendix C)

Materials/Parts

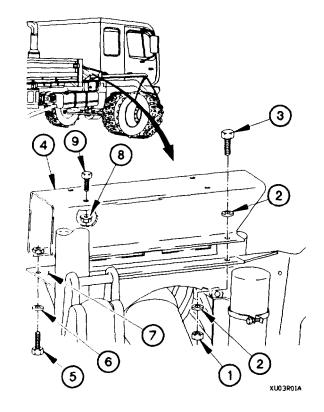
Cap and Plug Set (Item 15, Appendix D)
Dispenser, Pressure Sensitive Adhesive Tape
(Item 21, Appendix D)
Antiseize Compound (Item 14, Appendix D)
Washer, Spring (4) (Item 279, Appendix G)
Packing, Preformed (2) (Item 166, Appendix G)
Nut, Self-Locking (4) (Item 149, Appendix G)
Hydraulic Fluid A (Item 26, Appendix D)

References

TM 3-4230-214-12&P

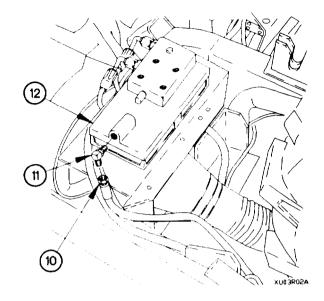
a. Air/Hydraulic Power Unit Removal.

- (1) Remove two nuts (1), four washers (2), and two screws (3) from decontamination unit mounting bracket (4).
- (2) Remove two screws (5), washers (6), and decontamination unit mounting bracket (4) from air/hydraulic unit mounting bracket (7).
- (3) Remove four self-locking nuts (8) and screws (9) from decontamination unit mounting bracket (4). Discard self-locking nuts.



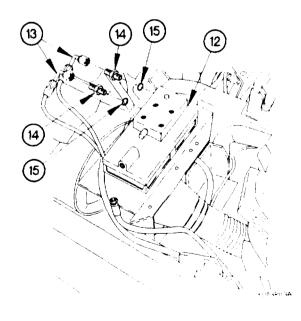
19-3. AIR/HYDRAULIC POWER UNIT AND BRACKET REPLACEMENT (CONT)

- (4) Disconnect air hose (10) from fitting (11).
- (5) Remove fitting (11) from air/hydraulic power unit (12).



WARNING

Hydraulic fluid (MIL-H-5606A) is TOXIC. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that come in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.



CAUTION

Cap or plug hydraulic hoses and connection points to prevent contamination to hydraulic system. Failure to comply may result in damage to equipment.

NOTE

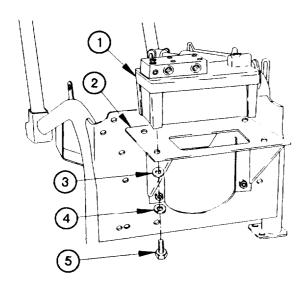
Tag hoses and connection points prior to disconnecting.

- (6) Disconnect two hydraulic hoses (13) from fittings (14).
- (7) Remove two fittings (14) from air/hydraulic power unit (12).
- (8) Remove two preformed packings (15) from fittings (14). Discard preformed packings.

(9) Remove four screws (16), spring washers (17), washers (18) and air/hydraulic power unit (12) from air/hydraulic power unit mounting bracket (7). Discard spring washers.

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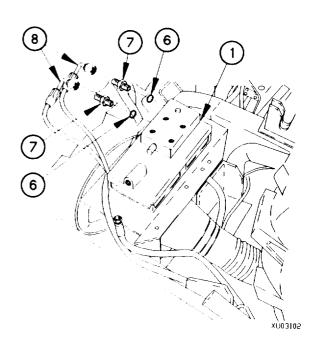
b. Air/Hydraulic Power Unit Installation.



- (1) Position air/hydraulic power unit (1) on air/hydraulic unit mounting bracket (2) with four washers (3), spring washers (4), and screws (5).
- (2) Tighten four screws (5) to 18-22 lb-ft (24-30 Nom).

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- (3) Install two preformed packings (6) on fittings (7).
- (4) Install two fittings (7) in air/hydraulic power unit (1).
- (5) Connect two hydraulic hoses (8) to fittings (7).

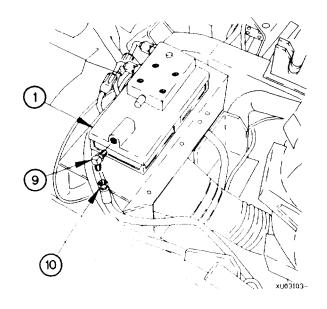


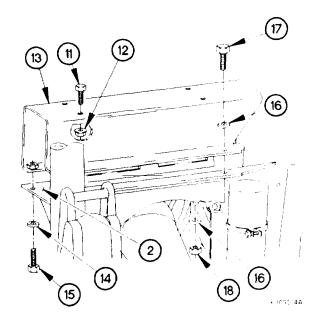
19-3. AIR/HYDRAULIC POWER UNIT AND BRACKET REPLACEMENT (CONT)

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.

- (6) Apply antiseize compound to threads of fitting (9).
- (7) Install fitting (9) in air/hydraulic power unit (1).
- (8) Connect air hose (10) to fitting (9).





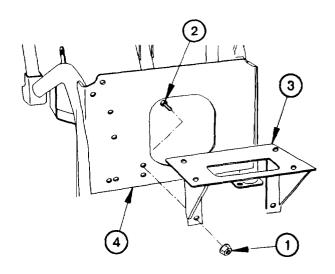
- (9) Install four screws (11) and self-locking nuts (12) in decontamination unit mounting bracket (13).
- (10) Position decontamination unit mounting bracket (13) on air/hydraulic power unit mounting bracket (2) with two washers (14) and screws (15).
- (11) Position four washers (16), two screws (17), and nuts (18) in decontamination unit mounting bracket (13).
- (12) Tighten two screws (15) and nuts (18) to 18-22 lb-ft (24-30 N•m).

c. Bracket Removal.

Remove four self-locking nuts (1), screws (2), and air/hydraulic power unit mounting bracket (3) from spare tire retainer (4). Discard self-locking nuts.

d. Bracket Installation.

- (1) Position air/hydraulic power unit mounting bracket (3) on spare tire retainer (4) with four screws (2) and self-locking nuts (1).
- (2) Tighten four self-locking nuts (1) to 48-58 lb-ft (65-79 N•m).



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e. Follow-On Maintenance.

- (1) Fill air/hydraulic power unit (Appendix H).
- (2) Start engine (TM 9-2320-365-10).
- (3) Inflate air springs (TM 9-2320-365-10).
- (4) Operate air/hydraulic power unit, check for leaks and proper operation (TM 9-2320-365-10).
- (5) Install M13 unit, if equipped (TM 3-4230-214-12&P).
- (6) Raise spare tire (TM 9-2320-365-10).
- (7) Shut down engine (TM 9-2320-365-10).

End of Task.

19-4. HYDRAULIC MANIFOLD REPLACEMENT/REPAIR

This task covers:

- a. Removal
- b. Disassembly
- c. Assembly

- d. Installation
- e. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Air tanks drained (TM 9-2320-365-10). Spare tire lowered (TM 9-2320-365-10).

Tools and Special Tools

Appendix B)

Tool Kit, Genl Mech (Item 44, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Gloves, Rubber (Item 13, Appendix C)
Pan, Drain (Item 24, Appendix C)
Puller Kit, Mechanical (Item 27, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C)
Socket Set, Socket Wrench (Item 34, Appendix C)
Screwdriver Attachment, Socket Wrench (Item 51,

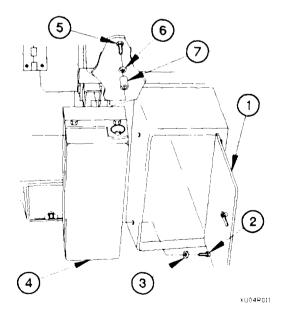
Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21. Appendix D) Cap and Plug Set (Item 15, Appendix D) Parts Kit, Seal Replacement (Item 197. Appendix G) Parts Kit, Seal Replacement (Item 198, Appendix G) Parts Kit, Seal Replacement (Item 199, Appendix G) Packing, Preformed (Item 173, Appendix G) Antiseize Compound (Item 14, Appendix D) Nut, Self-Locking (2) (Item 135, Appendix G) Nut, Self-Locking (Item 134, Appendix G) Ties, Cable, Plastic (Item 76, Appendix D) Filter Assembly (2) (Item 12, Appendix G) Packing, Preformed (10) (Item 165, Appendix G) Packing, Preformed (5) (Item 163, Appendix G) Oil, Lubricating, OE/HDO 10W (Item 44, Appendix D)

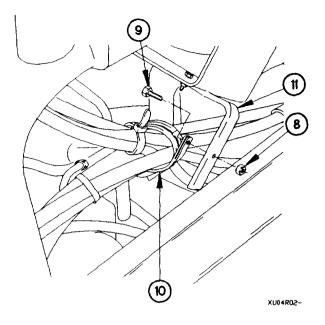
Hydraulic Fluid A (Item 26, Appendix D)

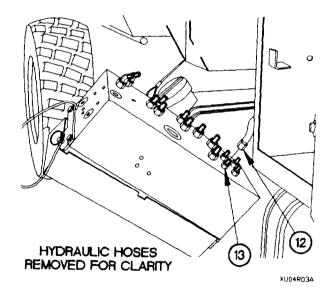
a. Removal.

- (1) Open tool box door (1).
- (2) Remove two screws (2) and spacers (3) from hydraulic manifold (4).
- (3) Remove two screws (5), spacers (6), and spacers (7) from hydraulic manifold (4).



(4) Remove self-locking nut (8), bolt (9), and clamp (10) from bracket (11). Discard self-locking nut.





NOTE

- Tag hoses and connection points prior to disconnecting.
- Remove plastic cable ties as required.
- (5) Disconnect four air hoses (12) from straight fittings (13).

19-4. HYDRAULIC MANIFOLD REPLACEMENT/REPAIR (CONT)

(6) Position drain pan under hydraulic manifold (4).

WARNING

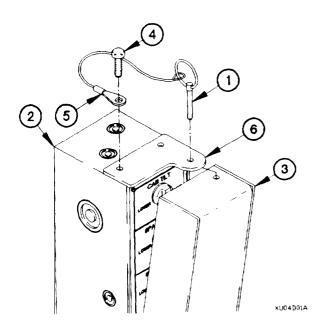
Hydraulic fluid (MIL-H-5606A) is TOXIC. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that come in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

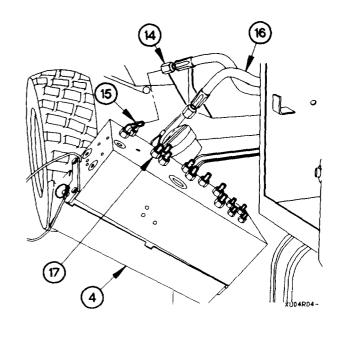
CAUTION

Cap or plug hydraulic hoses and connection points to prevent contamination of hydraulic system. Failure to comply may result in damage to equipment.

- (7) Disconnect two hydraulic hoses (14) from 45-degree fittings (15).
- (8) Disconnect eight hydraulic hoses (16) from fittings (17).
- (9) Remove hydraulic manifold (4) from vehicle.

b. Disassembly



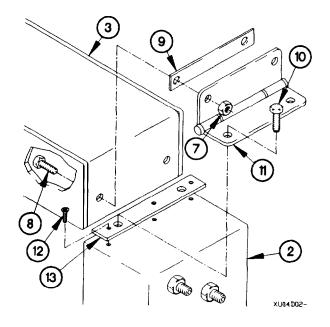


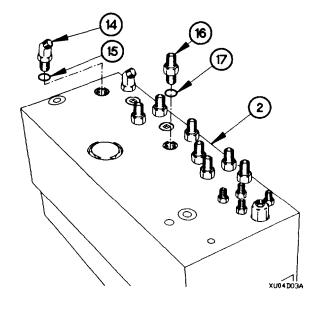
- (1) Remove retaining pin (1) from hydraulic manifold (2) and open cover (3).
- (2) Remove two screws (4), lanyard (5), and plate (6) from hydraulic manifold (2).

NOTE

Note position of spacer prior to removal.

- (3) Remove two self-locking nuts (7), screws (8), spacer (9), and cover (3) from hydraulic manifold (2). Discard self-locking nuts.
- (4) Remove two screws (10), hinge (11), three screws (12), and plate (13) from hydraulic manifold (2).





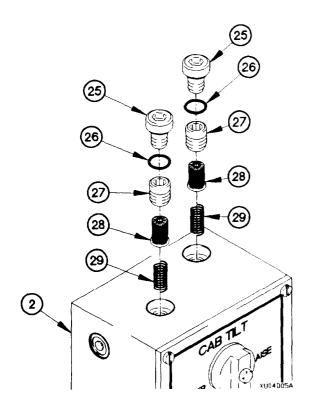
NOTE

Note location of valves, plugs, and fittings prior to disassembly.

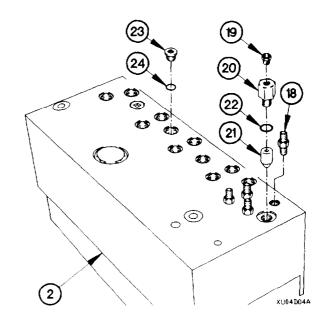
- (5) Remove two 45 degree fittings (14) from hydraulic manifold (2).
- (6) Remove two preformed packings (15) from 45 degree fittings (14). Discard preformed packings.
- (7) Remove eight fittings (16) from hydraulic manifold (2).
- (8) Remove eight preformed packings (17) from fittings (16). Discard preformed packings.

19-4. HYDRAULIC MANIFOLD REPLACEMENT/REPAIR (CONT)

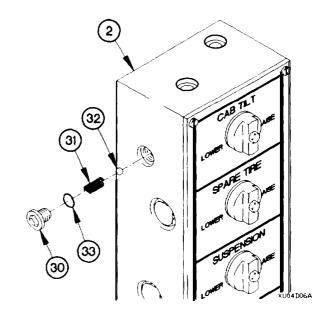
- (9) Remove four air fittings (18) from hydraulic manifold (2).
- (10) Remove muffler (19) from check valve (20).
- (11) Remove check valve (20) from adapter (21).
- (12) Remove preformed packing (22) from check valve (20). Discard preformed packing.
- (13) Remove adapter (21) from hydraulic manifold (2).
- (14) Remove plug (23) from hydraulic manifold (2).
- (15) Remove preformed packing (24) from plug (23). Discard preformed packing.



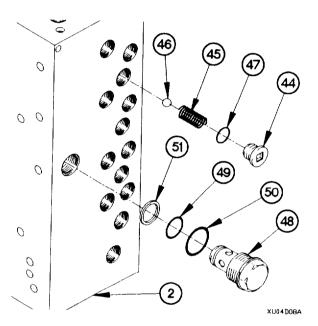
- (19) Remove plug (30), spring (31), and ball seat (32) from hydraulic manifold (2).
- (20) Remove preformed packing (33) from plug (30). Discard preformed packing.



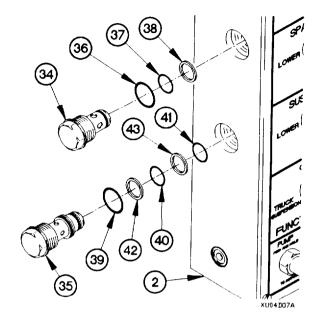
- (16) Remove two plugs (25) from hydraulic manifold (2).
- (17) Remove two preformed packings (26) from plugs (25). Discard preformed packings and plugs.
- (18) Remove two retainers (27), filters (28), and springs (29) from hydraulic manifold (2). Discard retainers, filters, and springs.



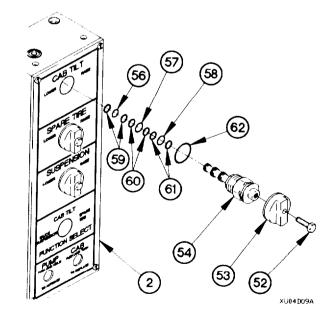
- (21) Remove cartridge valves (34 and 35) from hydraulic manifold (2).
- (22) Remove preformed packings (36 and 37) and back-up ring (38) from cartridge valve (34). Discard preformed packings and back-up ring.
- (23) Remove preformed packings (39, 40, and 41) and back-up rings (42 and 43) from cartridge valve (35). Discard preformed packings and back-up rings.



- (28) Remove four screws (52) and knobs (53) from hydraulic manifold (2).
- (29) Remove four manifold valves (54) from hydraulic manifold (2).
- (30) Remove four preformed packings (56, 57, and 58) and eight back-up rings (59, 60, and 61) from four manifold valves (54). Discard preformed packings and back-up rings.
- (31) Remove four preformed packings (62) from manifold valves (54). Discard preformed packings.

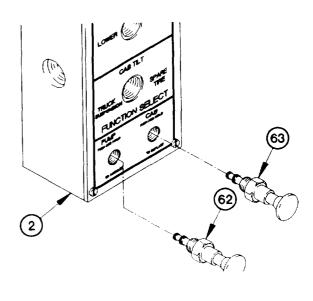


- (24) Remove plug (44), spring (45), and ball seat (46) from hydraulic manifold (2).
- (25) Remove preformed packing (47) from plug (44). Discard preformed packing.
- (26) Remove cartridge valve (48) from hydraulic manifold (2).
- (27) Remove preformed packings (49 and 50) and back-up ring (51) from cartridge valve (48). Discard preformed packings and back-up ring.

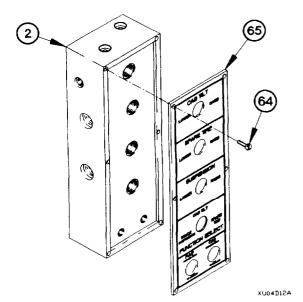


19-4. HYDRAULIC MANIFOLD REPLACEMENT/REPAIR (CONT)

(32) Remove air valves (62 and 63) from hydraulic manifold (2).



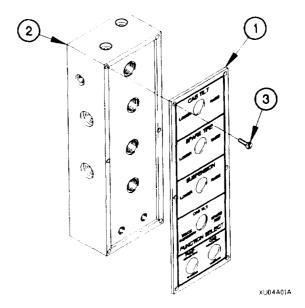
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(33) Remove six screws (64) and plate (65) from hydraulic manifold (2).

c. Assembly.

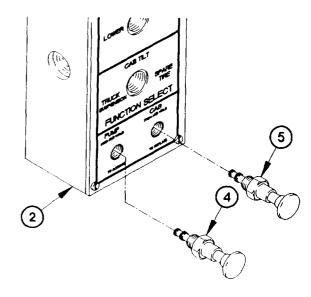
(1) Install plate (1) on hydraulic manifold (2) with six screws (3).



NOTE

Lubricate parts with oil as required.

(2) Install air valves (4 and 5) in hydraulic manifold (2).



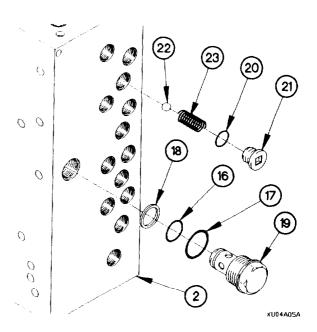
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- 13 (12) 11 (15) (14) (15)
- (3) Install four preformed packings (6) on manifold valves (7).
- (4) Install four preformed packings (8, 9, and 10) and eight back-up rings (11, 12, and 13) on four manifold valves (7).
- (5) Install four manifold valves (7) in hydraulic manifold (2).
- (6) Install four knobs (14) on manifold valves (7) with screws (15).

(7) Install preformed packings (16 and 17) and back-up ring (18) on cartridge valve (19).

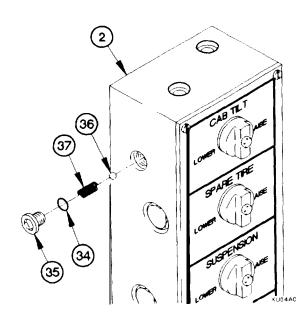
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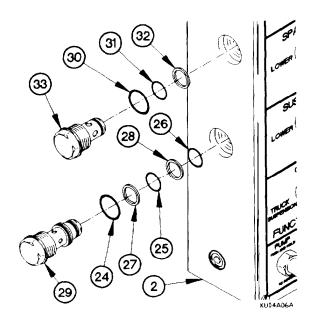
- (8) Install cartridge valve (19) in hydraulic manifold (2).
- (9) Install preformed packing (20) on plug (21).
- (10) Install ball seat (22), spring (23), and plug (21) in hydraulic manifold (2).



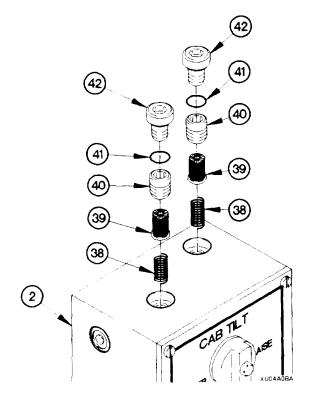
19-4. HYDRAULIC MANIFOLD REPLACEMENT/REPAIR (CONT)

- (11) Install preformed packings (24, 25, and 26) and backup rings (27 and 28) on cartridge valve (29).
- (12) Install preformed packings (30 and 31) and back-up ring (32) on cartridge valve (33).
- (13) Install cartridge valves (29 and 33) in hydraulic manifold (2).





- (14) Install preformed packing (34) on plug (35).
- (15) Install ball seat (36), spring (37), and plug (35) in hydraulic manifold (2).



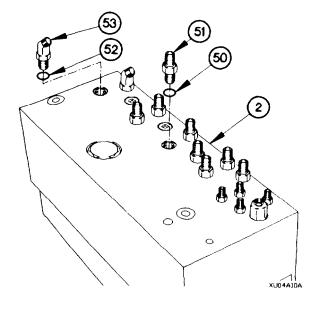
- (16) Position two springs (38) and filters (39) in hydraulic manifold (2) with two retainers (40).
- (17) Install two preformed packings (41) on plugs (42).
- (18) Install two plugs (42) in hydraulic manifold (2).

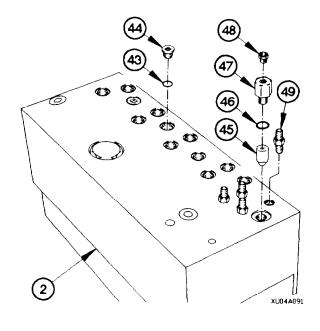
- (19) Install preformed packing (43) on plug (44).
- (20) Install plug (44) in hydraulic manifold (2).
- (21) Install adapter (45) in hydraulic manifold (2).
- (22) Install preformed packing (46) on check valve (47).
- (23) Install check valve (47) in adapter (45).
- (24) Install muffler (48) in check valve (46).

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.

- (25) Apply antiseize compound to four air fittings (49).
- (26) Install four air fittings (49) in hydraulic manifold (2).

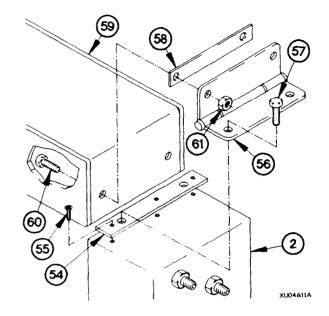


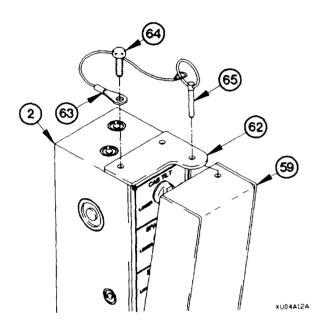


- (27) Install eight preformed packings (50) on fittings (51).
- (28) Install eight fittings (51) in hydraulic manifold (2).
- (29) Install two preformed packings (52) on 45-degree fittings (53).
- (30) Install two 45-degree fittings (53) in hydraulic manifold (2).

19-4. HYDRAULIC MANIFOLD REPLACEMENT/REPAIR (CONT)

- (31) Position spacer (54) on hydraulic manifold (2) with three screws (55).
- (32) Tighten two screws (55) to 72-120 lb-in. (8-14 N•m).
- (33) Position hinge (56) on plate (54) with two screws (57).
- (34) Tighten two screws (57) to 18-22 lb-ft (24-30 Nem).
- (35) Position spacer (58) and cover (59) on hinge (56) with two screws (60) and self-locking nuts (61).
- (36) Tighten two self-locking nuts (61) to 18-22 lb-ft (24-30 $N \bullet m$).

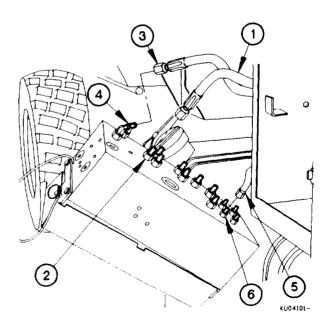




- (37) Position plate (62) and lanyard (63) on hydraulic manifold (2) with two screws (64).
- (38) Tighten two screws (64) to 18-22 lb-ft (24-30 Nem).
- (39) Close cover (59) and install retaining pin (65).

d. Installation.

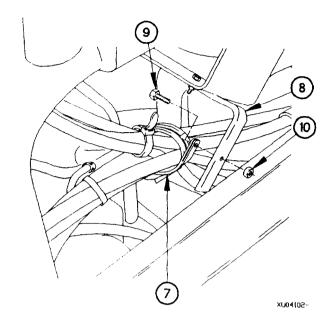
- (1) Connect eight hydraulic hoses (1) to fittings (2).
- (2) Connect two hydraulic hoses (3) to 45-degree fittings (4).
- (3) Connect four air hoses (5) to air fittings (6).

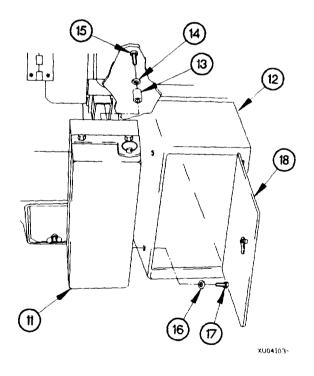


NOTE

Install plastic cable ties as required.

- (4) Position clamp (7) on bracket (8) with bolt (9) and self-locking nut (10).
- (5) Tighten self-locking nut (10) to 84-132 lb-in. (9-15 $N \cdot m$).





- (6) Position hydraulic manifold (11) on tool box (12) with two spacers (13), spacers (14), and screws (15).
- (7) Position two spacers (16) and screws (17) in hydraulic manifold (11).
- (8) Tighten two screws (15) and screws (17) to 18-22 lb-ft (24-30 N•m).
- (9) Close tool box door (18).

e. Follow-On Maintenance.

- (1) Raise spare tire (TM 9-2320-365-10).
- (2) Fill hydraulic system (TM 9-2320-365-10).
- (3) Raise cab and check hydraulic manifold for oil leaks (TM 9-2320-365-10).

End of Task.

19-5. HYDRAULIC MANIFOLD FILTER REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

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

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Gloves, Rubber (Item 13, Appendix C) Goggles, Industrial (Item 15, Aooendix C)

Materials/Parts

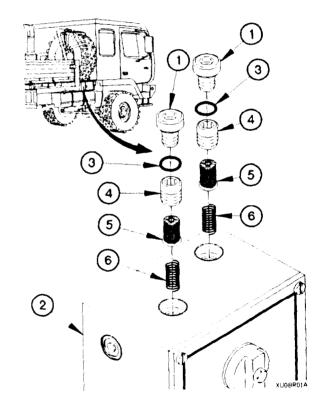
Filter Assembly (2) (Item 12, Appendix G) Hydraulic Fluid A (Item 26, Appendix D)

a. Removal.

WARNING

Hydraulic fluid (MIL-L-5606) is TOXIC. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that coma in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

- (1) Remove two plugs (1) from hydraulic manifold (2).
- (2) Remove two preformed packings (3) from plugs (1). Discard preformed packings and plugs.
- (3) Remove two retainers (4), filters (5), and springs (6) from hydraulic manifold (2). Discard retainers, filters, and springs.



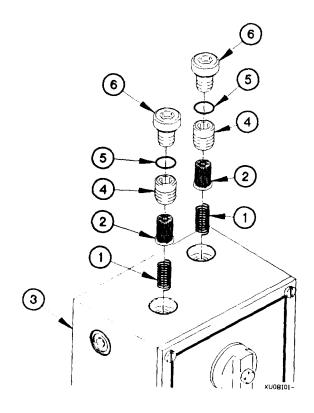
b. Installation.

- (1) Position two springs (1) and filters (2) in hydraulic manifold (3) with two retainers (4).
- (2) Install two preformed packings (5) on plugs (6).
- (3) Install two plugs (6) in hydraulic manifold (3).



Fill air transportability hydraulic system (Appendix H).

End of Task.



19-6. CAB HYDRAULIC LATCH REPLACEMENT/ADJUSTMENT

This task covers:

- a. Removal
- b. Installation

- c. Adjustment
- d. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

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

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Goggles, Industrial (Item 15, Appendix C) Gloves, Rubber (Item 13, Appendix C) Pan, Drain (Item 24, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)

Materials/Parts

Cap and Plug Set (Item 15, Appendix D) Nut, Self-Locking (4) (Item 149, Appendix G) Antiseize Compound (Item 14, Appendix D) Hydraulic Fluid A (Item 26, Appendix D)

a. Removal.

(1) Position drain pan under hydraulic hose (1).

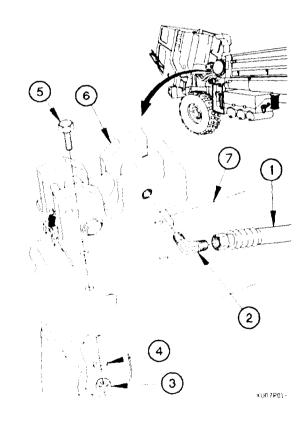
WARNING

Hydraulic fluid (MIL-H-5606A) is TOXIC. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that come in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

CAUTION

Cap or plug hydraulic hose and connection point to prevent contamination of hydraulic system. Failure to comply may result in damage to equipment.

- (2) Disconnect hydraulic hose (1) from 90-degree fitting (2).
- (3) Remove four self-locking nuts (3), washers (4), screws (5), and hydraulic latch (6) from cab support assembly (7). Discard self-locking nuts.
- (4) Remove 90-degree fitting (2) from hydraulic latch (6).

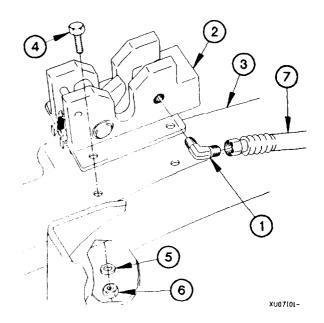


b. Installation.

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.

- (1) Apply antiseize compound to threads of 90-degree fitting (1).
- (2) Install 90-degree fitting (1) in hydraulic latch (2).
- (3) Position hydraulic latch (2) on cab support assembly (3) with four screws (4), washers (5), and self-locking nuts (6).
- (4) Connect hydraulic hose (7) to 90-degree fitting (1).



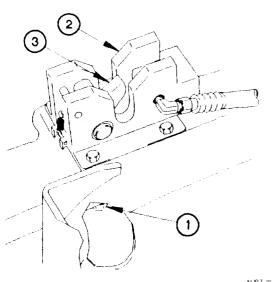
c. Adjustment.

(1) Loosen four nuts (1) on hydraulic latch (2).

NOTE

Perform step (2) and note position of cab latching hook assembly when it is near hydraulic latch.

- (2) Lower cab (TM 9-2320-365-10).
- (3) Raise cab (TM 9-2320-365-10).
- (4) Position hydraulic latch (2) to engage cab latching hook assembly (3).
- (5) Tighten four self-locking nuts (1) to 35-43 lb-ft (45-57 N•m).
- (6) Lower cab (TM 9-2320-365-10).
- (7) Check cab latching hook assembly (3) for proper operation.
- (8) Perform steps (1) through (7), as required.



TM 9-2320-365-20-4

19-6. CAB HYDRAULIC LATCH REPLACEMENT/ADJUSTMENT (CONT)

d. Follow-On Maintenance.

Fill air transportability hydraulic system (Appendix H).

End of Task.

19-7. AIR TRANSPORTABILITY HYDRAULIC SYSTEM SERVICE

This task covers:

a. Purging

b. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Air tanks drained (TM 9-2320-365-10). M13 decontamination unit removed, if equipped (TM 3-4230-214-12&P).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Pan, Drain (Item 24, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Gloves, Rubber (Item 13, Appendix C)
Goggles, Industrial (Item 15, Appendix C)

Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Solvent, Dry Cleaning (Item 71, Appendix D)
Washer, Spring (4) (Item 279, Appendix G)
Gasket (Item 32, Appendix G)
Filter Assembly (2) (Item 12, Appendix G)
Packing, Preformed (Item 166, Appendix G)
Hydraulic Fluid A (Item 26, Appendix D)

References

TM 3-4230-214-12&P

WARNING

Hydraulic fluid (MIL-H-5606A) is TOXIC. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that come in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

a. Purging.

NOTE

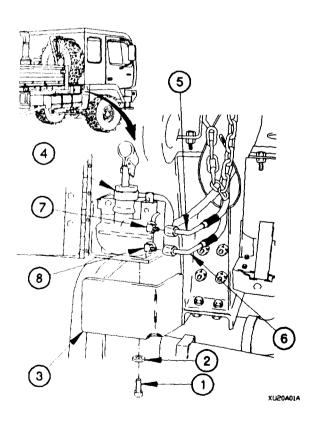
Perform the following steps to ensure all air and contaminants are removed from air transportability hydraulic system.

- (1) Remove two screws (1), washers (2) and cover (3) from back-up hydraulic pump (4).
- (2) Position drain pan under back-up hydraulic pump (4).

NOTE

Tag hoses and connection points prior to disconnecting.

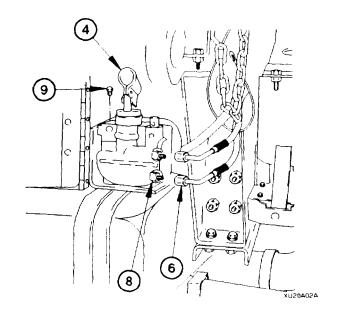
- (3) Disconnect hydraulic hoses (5 and 6) from 90-degree fittings (7 and 8).
- (4) Operate back-up hydraulic pump (4) until hydraulic fluid stops flowing (TM 9-2320-365-10).

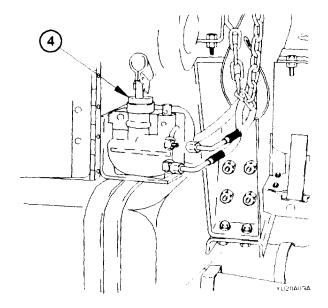


TM 9-2320-365-20-4

19-7. AIR TRANSPORTABILITY HYDRAULIC SYSTEM SERVICE (CONT)

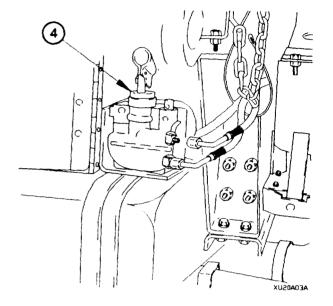
- (5) Remove filler plug (9) from back-up hydraulic pump (4).
- (6) Fill back-up hydraulic pump (4) with hydraulic fluid (Appendix H).
- (7) Install filler plug (9) in back-up hydraulic pump (4).
- (8) Operate back-up hydraulic pump (4) until hydraulic fluid starts flowing (TM 9-2320-365-10).
- (9) Install bottom hydraulic hose (6) on 90-degree fitting (8).

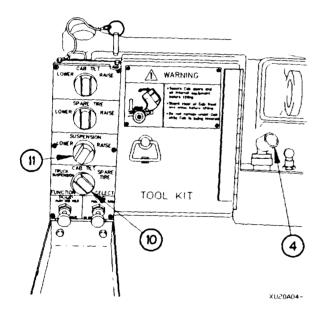




- (10) Repeat steps (5) through (7).
- (11) Raise cab with back-up hydraulic pump (4) (TM 9-2320-365-10).
- (12) Repeat steps (5) through (7).
- (13) Lower cab with back-up hydraulic pump (4) (TM 9-2320-365-10).
- (14) Repeat steps (5) through (7).
- (15) Repeat steps (11) through (14) until hydraulic fluid is cleared of foam, grit, and other contaminants.

- (16) Lower spare tire with back-up hydraulic pump (4) (TM 9-2320-365-10).
- (17) Repeat steps (5) through (7).
- (18) Raise spare tire with back-up hydraulic pump (4) (TM 9-2320-365-10).
- (19) Repeat steps (5) through (7).
- (20) Repeat steps (16) through (19) until hydraulic fluid is cleared of foam, grit, and other contaminants.

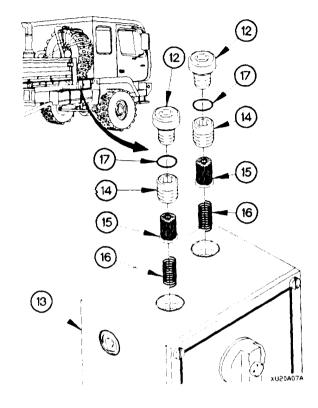


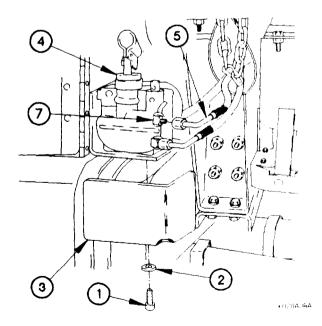


- (21) Position FUNCTION SELECT knob (10) to TRUCK SUSPENSION.
- (22) Position SUSPENSION knob (11) to RAISE.
- (23) Extend suspension cylinder with back-up hydraulic pump (4) (TM 9-2320-365-10).
- (24) Repeat steps (5) through (7).
- (25) Position SUSPENSION knob (11) to LOWER.
- (26) Retract suspension cylinder with back-up hydraulic pump (4) (TM 9-2320-365-10).
- (27) Repeat steps (5) through (7).
- (28) Repeat steps (22) through (27) until hydraulic fluid is cleared of foam, grit, and other contaminants.

19-7. AIR TRANSPORTABILITY HYDRAULIC SYSTEM SERVICE (CONT)

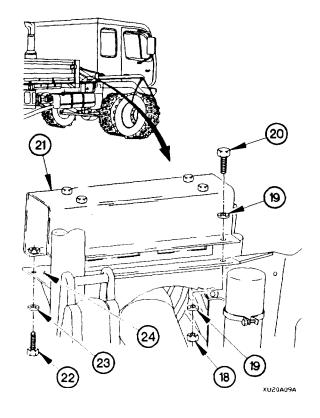
- (29) Remove two plugs (12) from hydraulic manifold (13). Discard plugs.
- (30) Remove two retainers (14), filters (15), and springs (16) from hydraulic manifold (13). Discard retainers, filters, and springs.
- (31) Position two springs (16) and filters (15) in hydraulic manifold (13) with two retainers (14).
- (32) Install two preformed packings (17) on Plugs (12).
- (33) Install two plugs (12) in hydraulic manifold (13).

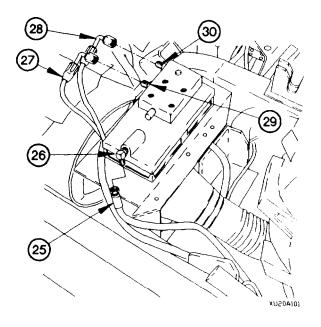




- (34) Install top hydraulic hose (5) on 90-degree fitting (7).
- (35) Position cover (3) on back-up hydraulic pump (4) with two washers (2) and screws (1).
- (36) Tighten two screws (1) to 19-28 lb-ft (24-38 N•m).

- (37) Lower spare tire retainer with back-up hydraulic pump (TM 9-2320-365-10).
- (38) Remove two nuts (18), four washers (19), and two screws (20) from decontamination unit mounting bracket (21).
- (39) Remove two screws (22), washers (23), and decontamination unit mounting bracket (21) from spare tire retainer (24).





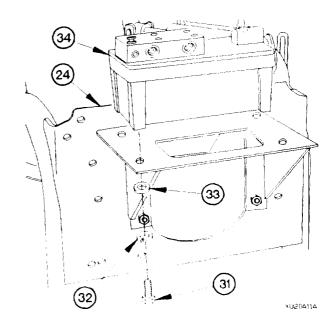
CAUTION

Cap or plug hoses and connection points prior to disconnecting to prevent contamination of system. Failure to comply may result in damage to equipment.

- (40) Disconnect air hose (25) from 90-degree fitting (26).
- (41) Disconnect hydraulic hoses (27 and 28) from fittings (29 and 30).

19-7. AIR TRANSPORTABILITY HYDRAULIC SYSTEM SERVICE (CONT)

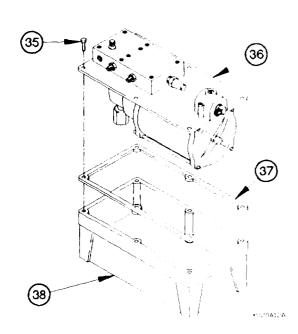
- (42) Remove four screws (31), spring washers (32), washers (33) and air/hydraulic power unit (34) from spare tire retainer (24). Discard spring washers.
- (43) Remove air/hydraulic power unit (34) from vehicle.



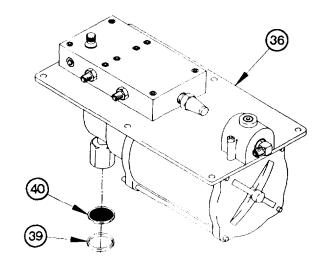
(44) Remove six screws (35), pump assembly (36) and gasket (37) from reservoir (38). Discard gasket.

WARNING

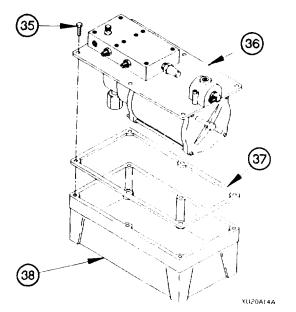
- Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes, and do not breathe vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I Dry Cleaning Solvent is 100°F (38°C) and for Type II is 130°F (50°C). Failure to comply may result in injury or death to personnel.
- If personnel become dizzy while using dry cleaning solvent, immediately get fresh air and medical help. If dry cleaning solvent contacts skin or clothes, flush with cold water. If dry cleaning solvent contacts eyes, immediately flush eyes with water and get immediate medical attention. Failure to comply may result in injury to personnel.
- (45) Drain hydraulic oil from reservoir (38) and flush with dry cleaning solvent.



- (46) Remove retaining ring (39) and strainer (40) from pump assembly (36).
- (47) Plush strainer (40) and pump assembly (36) with dry cleaning solvent.
- (48) Install Strainer (40) on pump assembly (36) with retaining ring (39).

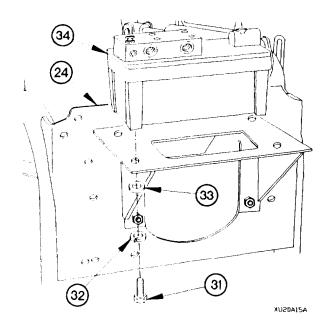


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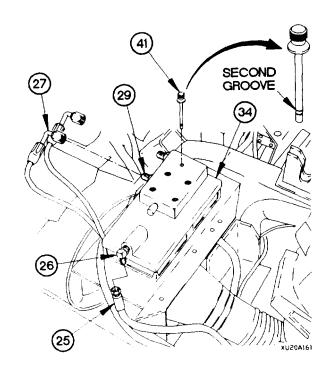
(49) Install gasket (37) and pump assembly (36) on reservoir (38) with six screws (35).

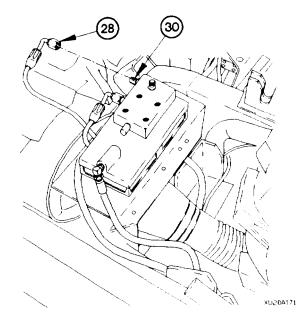
- (50) Position air/hydraulic power unit (34) on spare tire retainer (24) with four washers (33), spring washers (32) and screws (31).
- (51) Tighten four screws (31) to 18-22 lb-ft (24-34 N•m).



19-7. AIR TRANSPORTABILITY HYDRAULIC SYSTEM SERVICE (CONT)

- (52) Connect hydraulic hose (27) to fitting (29).
- (53) Connect air hose (25) to 90-degree fitting (26).
- (54) Remove dipstick (41) from air/hydraulic power unit (34).
- (55) Fill air/hydraulic power unit (34) to second groove from bottom on dipstick (Appendix H).
- (56) Install dipstick (41) in air/hydraulic power unit (34) and hand tighten.





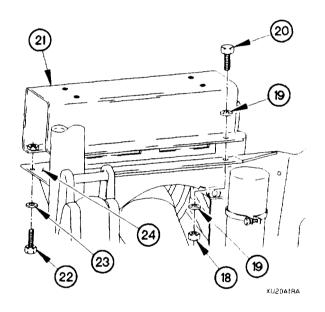
(57) Start engine and allow air system to pressurize (TM 9-2320-365-10).

NOTE

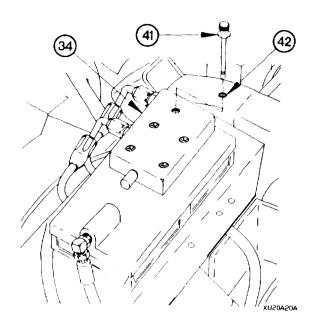
Remove plug from end of hydraulic hose prior to performing step (58).

- (58) Raise and lower cab using hydraulic manifold (TM 9-2320-365-10) until hydraulic fluid is cleared of foam, grit, and other contaminants.
- (59) Repeat steps (54) through (56) as required.
- (60) Connect hydraulic hose (28) to fitting (30).

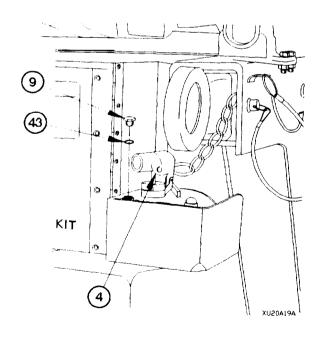
- (61) Remove dipstick (41) from air/hydraulic power unit (34).
- (62) Remove preformed packing (42) from dipstick (41). Discard preformed packing.
- (63) Install preformed packing (42) on dipstick (41).
- (64) Install dipstick (41) in air/hydraulic power unit (34) and hand tighten.



- (68) Remove filler plug (9) from back-up hydraulic pump (4).
- (69) Remove preformed packing (43) from filler plug (9). Discard preformed packing,
- (70) Fill back-up hydraulic pump (4) with hydraulic fluid.
- (71) Install preformed packing (43) on filler plug (9).
- (72) Install filler plug (9) in back-up hydraulic pump (4).



- (65) Position decontamination unit mounting bracket (21) on spare tire retainer (24) with two washers (23) and screws (22).
- (66) Position four washers (19), two screws (20), and nuts (18) in decontamination unit mounting bracket (21).
- (67) Tighten two screws (22) and nuts (18) to 18-22 lb-ft (24-30 N•m).



19-7. AIR TRANSPORTABILITY HYDRAULIC SYSTEM SERVICE (CONT)

b. Follow-On Maintenance.

Raise and lower cab (TM 9-2320-365-10) and check for hydraulic fluid leaks around hoses and fittings.

End of Task.

19-8. EMERGENCY CAB LIFT PROCEDURE

This task covers:

a. Cab Lift

b. Follow-On Maintenance

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) Gloves, Rubber (Item 13, Appendix C) Pan, Drain (Item 24, Appendix C)

Tools and Special Tools (Cont)

Cab Support Tool (Item E-4, Appendix E)

Materials/Parts

Cap and Plug Set (Item 15, Appendix D) Nut, Self-Locking (4) (Item 149, Appendix G)

Personnel Required

(2)

a. Cab Lift.

CAUTION

Perform this task in the event that the air/ hydraulic power unit and the back-up hydraulic pump are inoperative at the same time.

(1) Position drain pan under hydraulic hose (1).

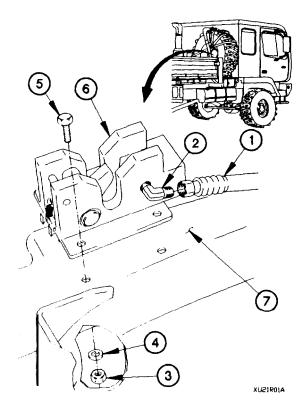
WARNING

Hydraulic fluid (MIL-H-5606) is TOXIC. Wear protective goggles and gloves; use only in well-ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that come in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

CAUTION

Cap or plug hose and connection point to prevent contamination of hydraulic system. Failure to comply may result in damage to equipment.

- (2) Disconnect hydraulic hose (1) from 90-degree fitting (2).
- (3) Remove four self-locking nuts (3), washers (4), and screws (5) from cab hydraulic latch (6) and cab support assembly (7). Discard self-locking nuts.



19-8. EMERGENCY CAB LIFT PROCEDURE (CONT)

WARNING

Cab weighs approximately 3000 lbs (1362 kgs) attach a suitable lifting device prior to raising cab. Failure to comply may result in injury to personnel.

NOTE

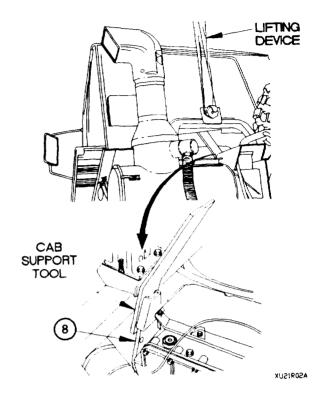
Steps (4) through (6) require the aid of an assistant.

- (4) Raise cab.
- (5) Install cab support tool on rear engine lift bracket (8).
- (6) Lower cab on cab support tool.



- (1) Perform air transportability hydraulic system troubleshooting to determine cause of malfunction.
- (2) Install cab hydraulic latch (para 19-6).

End of Task.



19-9. SUSPENSION CYLINDER REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

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

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Gloves, Rubber (Item 13, Appendix C)
Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C)
Wrench, Torque, 0-600 lb-ft (Item 59, Appendix C)
Wrench, Torque, 0-200 lb-in. (Item 58, Appendix C)
Socket Set, Socket Wrench (Item 34, Appendix C)
Wrench Set, Socket (Item 48, Appendix C)

Materials/Parts

Cap and Plug Set (Item 15, Appendix D)
Packing Preformed (2) (Item 166, Appendix G)
Nut, Self-Locking (Item 116, Appendix G)
Pin, Cotter (Item 204, Appendix G)
Hydraulic Fluid A (Item 26, Appendix D)

Personnel Required

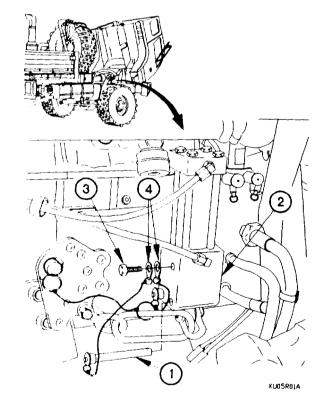
(2)

a. Removal.

NOTE

Left and right suspension cylinders are removed the same way. Right side shown.

- (1) Remove two quick release pins (1) from suspension cylinder (2).
- (2) Remove screw (3) and two lanyards (4) from suspension cylinder (2).



19-9. SUSPENSION CYLINDER REPLACEMENT (CONT)

WARNING

Hydraulic fluid (MIL-H-5606A) is TOXIC. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that comes in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

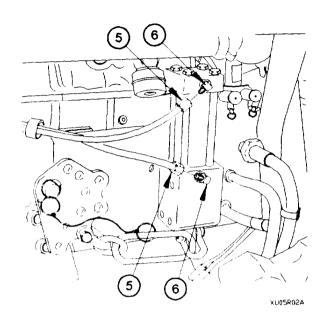
CAUTION

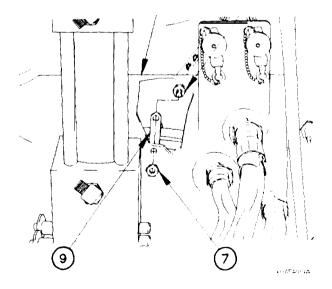
Cap or plug hydraulic hoses and connection points to prevent contamination of hydraulic system. Failure to comply may result in damage to equipment.

NOTE

Tag hydraulic hoses and connection points prior to disconnecting.

(3) Disconnect two hydraulic hoses (5) from 90-degree fittings (6).





WARNING

Wear appropriate eye protection when working under vehicle due to the possibility of falling debris. Failure to comply may result in injury to personnel.

NOTE

Step (4) requires the aid of an assistant.

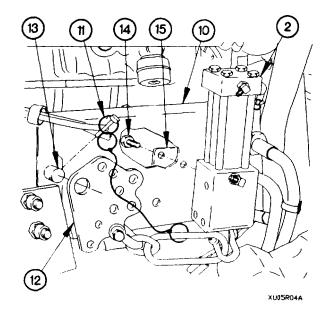
(4) Remove self-locking nut (7), screw (8), and clamp (9) from frame rail (10). Discard self-locking nut.

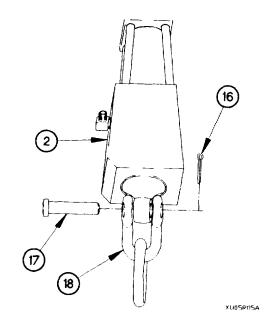
(5) Remove spring pin (11) and suspension compression plate (12) from suspension compression plate stud (13).

NOTE

Step (6) requires the aid of an assistant.

(6) Remove three screws (14), plate (15), and suspension cylinder (2) from frame rail (10).



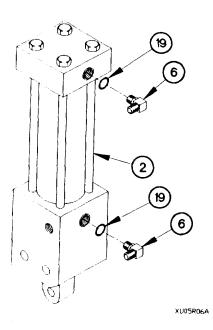


(7) Remove cotter pin (16), pin (17), and shackle (18) from suspension cylinder (2). Discard cotter pin.

NOTE

Note orientation of fittings prior to removal.

- (8) Remove two 90-degree fittings (6) from suspension cylinder (2).
- (9) Remove two preformed packings (19) from 90-degree fittings (6). Discard preformed packings.



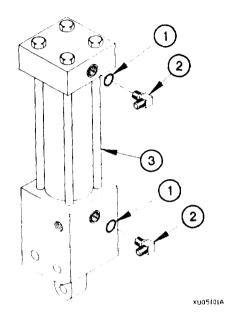
19-9. SUSPENSION CYLINDER REPLACEMENT (CONT)

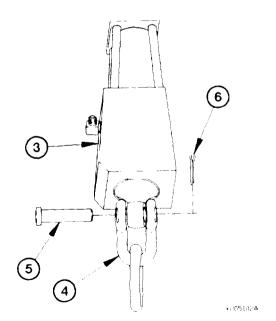
b. Installation.

NOTE

Left and right side suspension cylinders are installed the same way. Right side shown.

- (1) Install two preformed packings (1) on 90-degree fittings (2).
- (2) Install two 90-degree fittings (2) in suspension cylinder (3).





(3) Install shackle (4) on suspension cylinder (3) with pin (5) and cotter pin (6).

(4) Install suspension compression plate (7) on suspension compression plate stud (8) with spring pin (9).

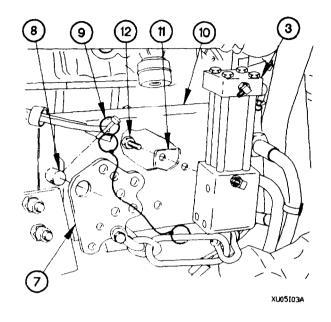
WARNING

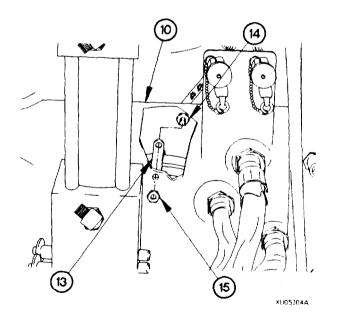
Wear appropriate eye protection when working under vehicle due to the possibility of falling debris. Failure to comply may result in injury to personnel.

NOTE

Steps (5) through (8) require the aid of an assistant.

- (5) Position suspension cylinder (3) on frame rail (10) with plate (11) and three screws (12).
- (6) Tighten three screws (12) to 149-183 lb-ft (202-248 $\,$ Nem).

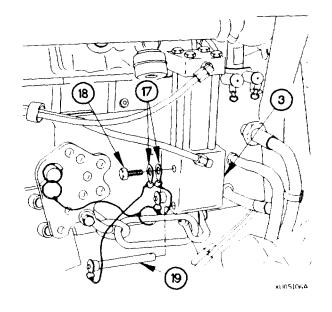


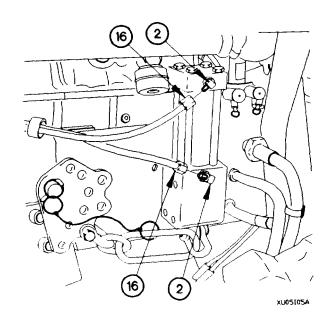


- (7) Position clamp (13) on frame rail (10) with screw (14), and self-locking nut (15).
- (8) Tighten self-locking nut (15) to 84-108 lb-in. (9-12 $N \bullet m$).

19-9. SUSPENSION CYLINDER REPLACEMENT (CONT)

(9) Connect two hydraulic hoses (16) to 90-degree fittings (2).





- (10) Position two lanyards (17) on suspension cylinder (3) with screw (18).
- (11) Tighten screw (18) to 18-22 lb-ft (24-30 N•m).
- (12) Install two quick release pins (19) in suspension cylinder (3).

c. Follow-On Maintenance.

- (1) Fill air transportability hydraulic system (Appendix H).
- (2) Lower cab (TM 9-2320-365-10).

End of Task.

19-10. CAB HYDRAULIC CYLINDER REPLACEMENT

This task covers:

- a. Removal
- b. Installation

c. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

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

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C)
Wrench, Torque, 0-600 lb-ft (Item 59, Appendix C)
Wrench Set, Socket (Item 48, Appendix C)
Pan, Drain (Item 24, Appendix C)
Sling, Endless (Item 32, Appendix C)
Gloves, Rubber (Item 13, Appendix C)
Goggles, Industrial (Item 15, Appendix C)
Cab Support Tool (Item E-4, Appendix E)

Materials/Parts

Nipple, Tube (Item 35, Appendix D)
Grease, Automotive and Artillery (GAA) (Item 23, Appendix D)
Ties, Cable, Plastic (Item 76, Appendix D)
Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Pin, Cotter (Item 207, Appendix G)
Nut, Self-Locking (Item 151, Appendix G)
Pin, Cotter (Item 206, Appendix G)
Washer, Spring (Item 274, Appendix G)
Packing, Preformed (2) (Item 161, Appendix G)
Washer, Spring (Item 282, Appendix G)
Packing, Preformed (Item 167, Appendix G)
Hydraulic Fluid A (Item 26, Appendix D)

Personnel Required

(2)

a. Removal.

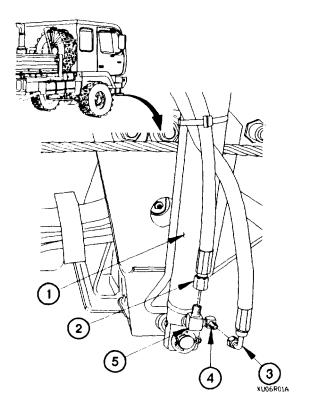
(1) Position drain pan under cab hydraulic cylinder (1).

WARNING

Hydraulic fluid (MIL-H-5606) is TOXIC. Wear protective goggles and gloves; use only in well-ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that come in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

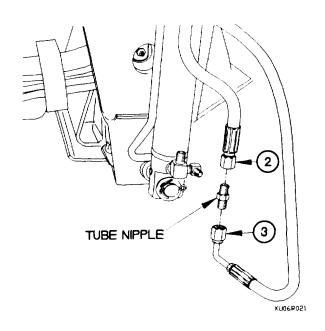
NOTE

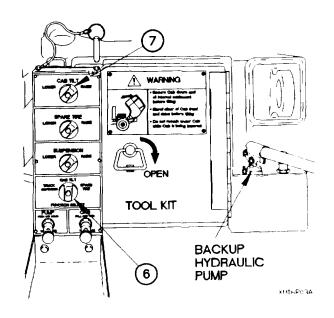
- Remove plastic cable ties as required.
- Tag hoses and connection points prior to disconnecting.
- (2) Disconnect hoses (2 and 3) from 90-degree fittings (4 and 5).



19-10. CAB HYDRAULIC CYLINDER REPLACEMENT (CONT)

(3) Connect hoses (2 and 3) to tube nipple.





- (4) Turn FUNCTION SELECT valve (6) to CAB TILT position.
- (5) Turn CAB TILT valve (7) to the RAISE position.

CAUTION

Use only the backup hydraulic pump to unlatch cab. Failure to comply may result in damage to equipment.

(6) Operate backup hydraulic pump (TM 9-2320-365-10).

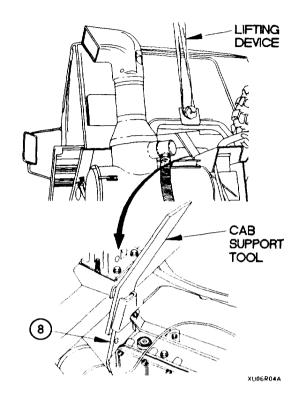
WARNING

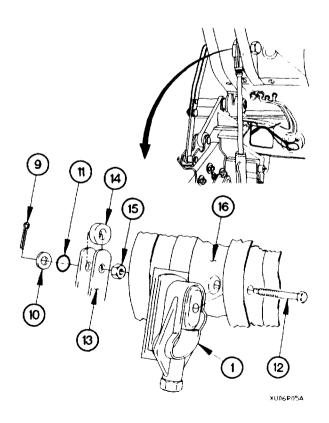
Cab weighs approximately 3000 lbs (1362 kgs) attach a suitable lifting device prior to raising cab. Failure to comply may result in injury to personnel.

NOTE

Steps (7) through (9) require the aid of an assistant.

- (7) Raise cab (TM 9-2320-365-10).
- (8) Install cab support tool on engine rear lifting bracket (8).
- (9) Lower cab on cab support tool.

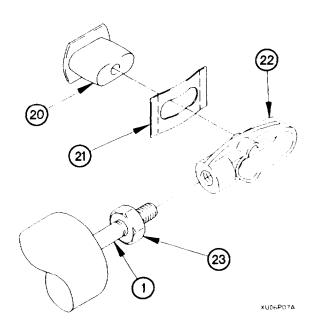


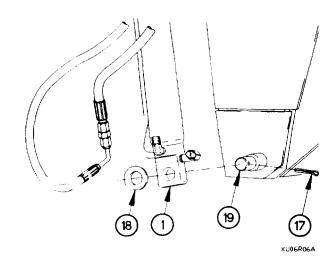


- (10) Remove cotter pin (9), washer (10), and preformed packing (11) from cab hydraulic cylinder mounting bolt (12). Discard cotter pin and preformed packing.
- (11) Disengage pivot arm (13) and spacer (14) from cab hydraulic cylinder mounting bolt (12).
- (12) Remove self-locking nut (15), cab hydraulic cylinder mounting bolt (12), and cab hydraulic cylinder (1) from cab frame (16). Discard self-locking nut.

19-10. CAB HYDRAULIC CYLINDER REPLACEMENT (CONT)

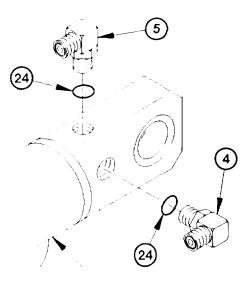
(13) Remove cotter pin (17), spring washer (18), and cab hydraulic cylinder (1) from stud (19). Discard cotter pin and spring washer.





- (14) Remove control cam (20) and spring washer (21) from mounting bracket (22). Discard spring washer.
- (15) Loosen jamnut (23) under mounting bracket (22) until jamnut (23) bottoms out on threads.
- (16) Remove mounting bracket (22) from cab hydraulic cylinder (1).

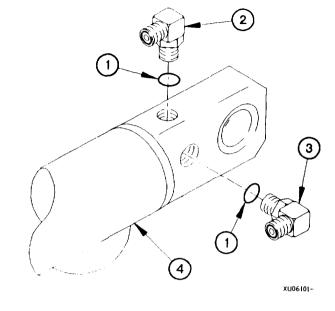
- (17) Remove 90-degree fittings (4 and 5) from cab hydraulic cylinder (1).
- (18) Remove two preformed packings (24) from 90-degree fittings (4 and 5). Discard preformed packings.

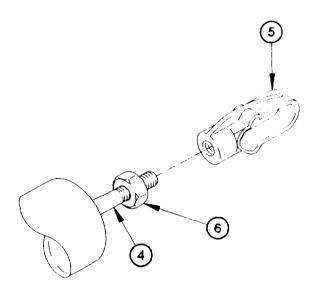


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b. Installation.

- (1) Install two preformed packings (1) on 90-degree fittings (2 and 3).
- (2) Install 90-degree fittings (2 and 3) in cab hydraulic cylinder (4).

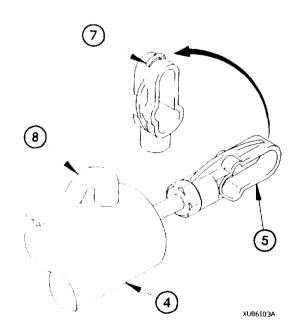




- (3) Install mounting bracket (5) on cab hydraulic cylinder (4) until mounting bracket bottoms out on threads.
- (4) Tighten jamnut (6) against mounting bracket (5).

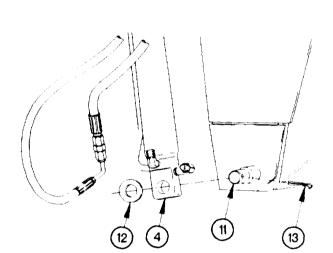
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(5) Align mounting bracket (5) so arrow (7) on top of mounting bracket is aligned 180 degrees opposite tube (8) on cab hydraulic cylinder (4).

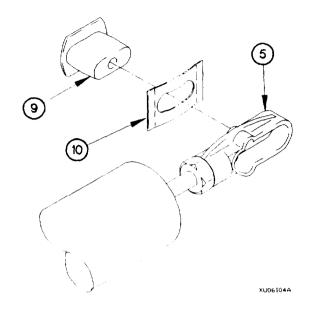


19-10. CAB HYDRAULIC CYLINDER REPLACEMENT (CONT)

- (6) Apply grease to inside of mounting bracket (5).
- (7) Assemble control cam (9) and spring washer (10) and insert in mounting bracket (5) with long side of control cam aligned in long slot of mounting bracket.



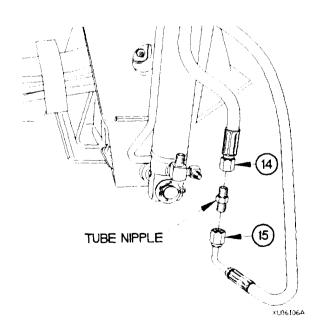
(9) Remove hoses (14 and 15) from tube nipple.



NOTE

Cab hydraulic cylinder is installed so that hydraulic fittings face away from engine and arrow on top of mounting bracket points toward front of vehicle.

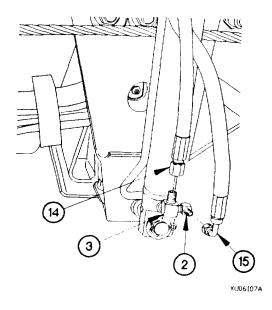
(8) Install cab hydraulic cylinder (4) on stud (11) with spring washer (12) and cotter pin (13).

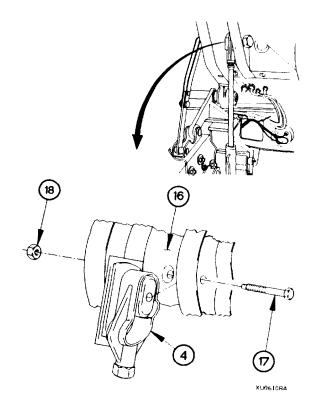


NOTE

Install plastic cable ties as required.

(10) Install hoses (14 and 15) on 90-degree fittings (2 and 3).





(11) Position cab hydraulic cylinder (4) between cab frame (16) with cab hydraulic cylinder mounting bolt (17) and self-locking nut (18).

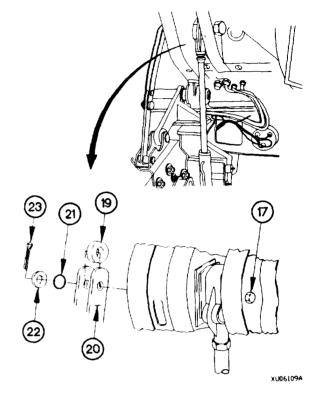
CAUTION

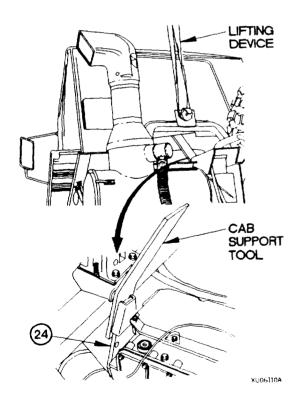
Ensure long side of control cam remains aligned with long slot in mounting bracket, Failure to comply may result in damage to equipment.

(12) Tighten self-locking nut (18) to 180-232 lb-ft (244-314 $N \bullet m$).

19-10. CAB HYDRAULIC CYLINDER REPLACEMENT (CONT)

- (13) Position spacer (19) between locking arms (20) and install cab hydraulic cylinder mounting bolt (17) through locking arms.
- (14) Raise cab (TM 9-2320-365-10).
- (15) Install preformed packing (21), washer (22), and cotter pin (23) on cab hydraulic cylinder mounting bolt (17).





- (16) Remove lifting device.
- (17) Remove cab support tool from engine rear lifting bracket (24).
- (18) Lower cab (TM 9-2320-365-10).

c. Follow-On Maintenance.

Perform air transportability hydraulic system service (para 19-7).

End of Task.

19-11. AIR TRANSPORTABILITY HYDRAULIC HOSE REPLACEMENT

This task covers:

a. Hydraulic Hose Locations

b. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

Engine shut down (TM 9-2320-365-10). Cab raised, if required (TM 9-2320-365-10). Spare tire lowered, if required (TM 9-2320-365-10). Manifold removed from tool box (para 19-4). Hand pump protective cover removed, if required. Air/hydraulic power unit protective cover removed, if required (para 19-3).

Tools and Special Tools

Tool Kit, General Mech (Item 44, Appendix C) Pan, Drain (Item 24, Appendix C) Goggles, Industrial (Item 15, Appendix C) Gloves, Rubber (Item 13, Appendix C)

Materials/Parts

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Cap and Plug Set (Item 15, Appendix D)
Ties, Cable, Plastic (Item 76, Appendix D)
Rag, Wiping (Item 51, Appendix D)

a. Hydraulic Hose Locations.

WARNING

- Wear appropriate eye protection when working under vehicle due to the possibility of falling debris.
 Failure to comply may result in injury to personnel.
- Hydraulic fluid (MIL-H-5606A) is TOXIC. Wear protective goggles and gloves; use only in well ventilated areas; avoid contact with skin, eyes, and clothes. Skin and clothing that come in contact with hydraulic oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

CAUTION

Cap or plug hose connection points and hoses when removed to prevent contamination of air transportability hydraulic system. Failure to comply may result in damage to equipment.

NOTE

- Refer to Table 19-1. Air Transportability Hydraulic Hose Locations for location of hydraulic hoses on the air transportability system. It may not be necessary to remove all hydraulic hoses at one time.
- Tag hoses and connection points prior to removal.
- Remove plastic cable ties as required.
- Remove clamps and support brackets as required.
- Position drain pan to collect hydraulic fluid.

19-11. AIR TRANSPORTABILITY HYDRAULIC HOSE REPLACEMENT (CONT)

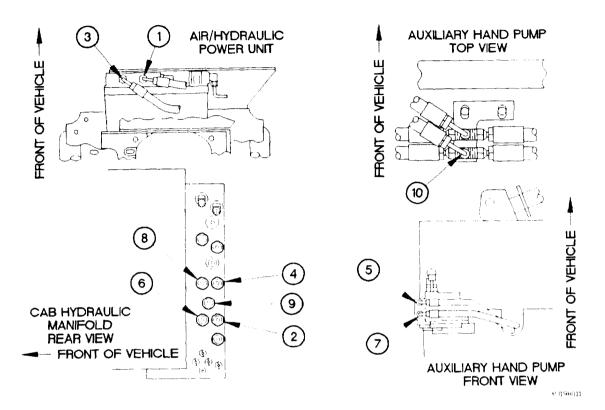


Figure 19-1. Air Transportability Hydraulic Hose Locations

Table 19-1. Air Transportability Hydraulic Hose Locations

Hydraulic Hose Name	From	То
Main Pressure	Air/Hydraulic power unit fitting (1)	Manifold fitting (2)
Main Return	Air/Hydraulic power unit fitting (3)	Manifold fitting (4)
Hand Pump Pressure	Hand pump fitting (7)	Manifold fitting (6)
Hand Pump Pressure	Hand pump fitting (5)	Manifold fitting (8)
Return	Return shut off valve top fitting (9)	Hydraulic oil tank top fitting (10)

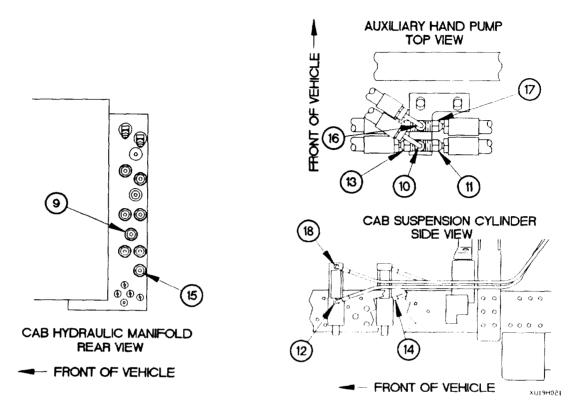


Figure 19-1. Air Transportability Hydraulic Hose Locations (Cont)

Table 19-1. Air Transportability Hydraulic Hose Locations (Cont)

Hydraulic Hose Name	From	То
Suspension Lower	Manifold fitting (9)	Three way tee fitting (10)
Suspension Lower, Left	Three way tee fitting (11)	Left suspension hydraulic cylinder fitting (12)
Suspension Lower, Right	Three way tee fitting (13)	Right suspension hydraulic cylinder fitting (14)
Suspension Normal	Manifold fitting (15)	Three way tee fitting (16)
Suspension Normal, Left	Three way tee fitting (17)	Left suspension hydraulic cylinder fitting (18)

19-11. AIR TRANSPORTABILITY HYDRAULIC HOSE REPLACEMENT (CONT)

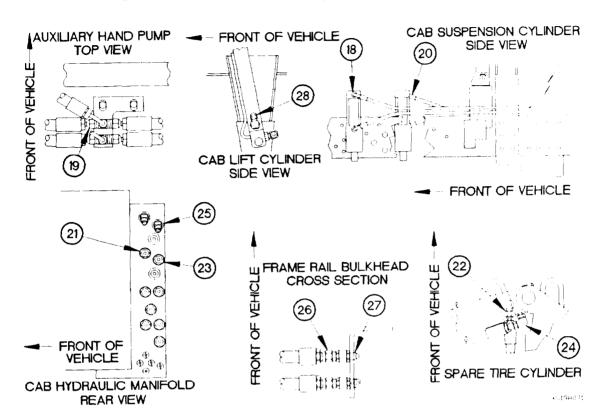


Figure 19-1. Air Transportability Hydraulic Hose Locations (Cont)

Table 19-1. Air Transportability Hydraulic Hose Locations (Cont)

Hydraulic Hose Name	From	То
Suspension Normal Right	Three way tee fitting (19)	Right suspension hydraulic cylinder fitting (20)
Spare Tire Retract	Manifold fitting (21)	Spare tire carrier hydraulic cylinder fitting (22)
Spare Tire Extend	Manifold fitting (23)	Spare tire carrier hydraulic cylinder fitting (24)
Cab Tilt Retract Rear	Manifold fitting (25)	Bulkhead fitting (26)
Cab Tilt Retract Forward	Bulkhead fitting (27)	Cab tilt hydraulic fitting (28)

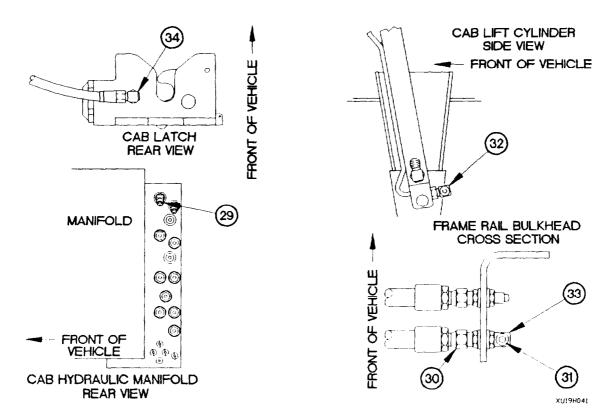


Figure 19-1. Air Transportability Hydraulic Hose Locations (Cont)

Table 19-1. Air Transportability Hydraulic Hose Locations (Cont)

Hydraulic Hose Name	From	То	Torque
Cab Tilt Extend Rear	Manifold fitting (29)	Bulkhead fitting (30)	
Cab Tilt Extend Forward	Bulkhead fitting (31)	Cab tilt hydraulic cylinder fitting (32)	
Cab Latch	Bulkhead fitting (33)	Rear cab latch fitting (34)	

b. Follow-On Maintenance.

- (1) Service air transportability hydraulic system as required (Appendix H).
- (2) Operate air transportability system, check for proper operation (TM 9-2320-365-10).
- (3) Check for hydraulic fluid leaks.

End of Task

19-12. HYDRAULIC OIL FILTER ASSEMBLY SERVICE/REPLACEMENT

This task covers:

- a. Service
- b. Removal

- c. Installation
- d. Follow-On Maintenance

INITIAL SETUP

Equipment Conditions

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

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C) Pan, Drain (Item 24, Appendix C)

Materials/Parts

Appendix D)

Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D)
Filter Element, Fluid (Item 17, Appendix G)
Packing, Preformed (2) (Item 162, Appendix G)
Oil, Lubricating, OE/HDO 10W (Item 44,

Tape, Antiseizing (Item 73, Appendix D)

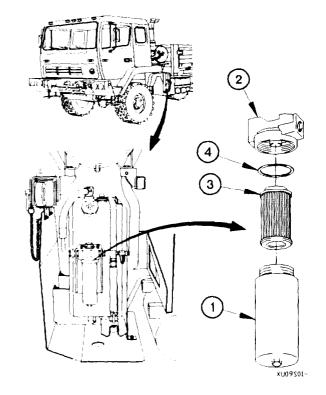
a. Service.

- (1) Remove hydraulic oil filter assembly bowl (1) from filter assembly base (2).
- (2) Remove fluid filter element (3) from oil filter assembly bowl (1). Discard fluid filter element.
- (3) Remove preformed packing (4) from hydraulic oil filter assembly bowl (1). Discard preformed packing.

NOTE

Apply lubricating oil to preformed packing prior to installation.

- (4) Install preformed packing (4) on hydraulic oil filter assembly bowl (1).
- (5) Install fluid filter element (3) in hydraulic oil filter assembly bowl (1).
- (6) Install hydraulic oil filter assembly bowl (1) on filter assembly base (2) and hand tighten.

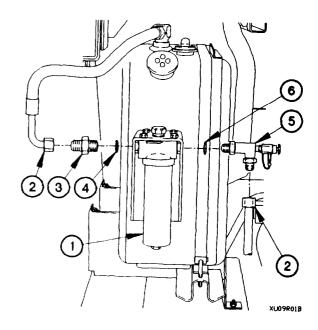


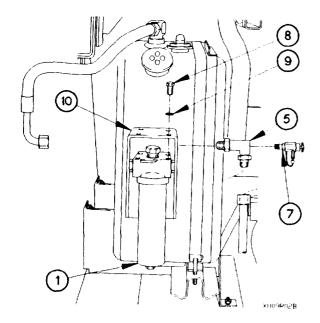
b. Removal.

NOTE

Tag hoses and connection points prior to disconnecting.

- (1) Position drain pan under hydraulic oil filter assembly (1).
- (2) Disconnect two hoses (2) from hydraulic oil filter assembly (1).
- (3) Remove fitting (3) from hydraulic oil filter assembly (1).
- (4) Remove preformed packing (4) from fitting (3). Discard preformed packing.
- (5) Remove adapter (5) from hydraulic oil filter assembly (1).
- (6) Remove preformed packing (6) from adapter (5). Discard preformed packing.





- (7) Remove hydraulic oil sampling valve (7) from adapter (5).
- (8) Remove four screws (8), washers (9), and hydraulic oil filter assembly (1) from bracket (10).

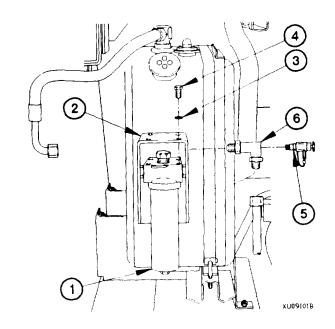
19-12. HYDRAULIC OIL FILTER ASSEMBLY SERVICE/REPLACEMENT (CONT)

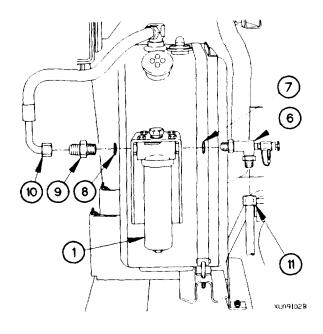
c. Installation.

NOTE

Apply lubricating oil to preformed packings during installation.

- (1) Install hydraulic oil filter assembly (1) on bracket (2) with four washers (3) and screws (4).
- (2) Tighten four screws (4) to 20-24 ft-lb (27-33 N•m).
- (3) Apply antiseizing tape to threads of hydraulic oil sampling valve (5).
- (4) Install hydraulic oil sampling valve (5) in adapter (6).





- (5) Install preformed packing (7) on adapter (6).
- (6) Install adapter (6) in hydraulic oil filter assembly (1).
- (7) Install preformed packing (8) on fitting (9).
- (8) Install fitting (9) on hydraulic oil filter assembly (1).
- (9) Connect hose (10) to fitting (9).
- (10) Connect hose (11) to adapter (6).

d. Follow-On Maintenance.

- (1) Fill hydraulic reservoir (Appendix H).
- (2) Start engine (TM 9-2320-365-10).
- (3) Check for oil leaks around hydraulic oil filter.
- (4) Shut down engine (TM 9-2320-365-10).

End of Task.

19-13. HYDRAULIC RESERVOIR AND BRACKET REPLACEMENT

This task covers:

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

INITIAL SETUP

Equipment Conditions

Hydraulic oil filter assembly removed (para 19-12).

Tools and Special Tools

Tool Kit, Genl Mech (Item 44, Appendix C) Wrench, Torque, 0-175 lb-ft (Item 57, Appendix C) Wrench Set, Socket (Item 49, Appendix C) Container (30 gal (113 L) capacity)

Materials/Parts

Cap and Plug Set (Item 15, Appendix D) Packing, Preformed (2) (Item 164, Appendix G)

Materials/Parts (Cont)

Sealing Compound (Item 62, Appendix D) Oil, Lubricating, OE/HDO 10W (Item 44, Appendix D) Dispenser, Pressure Sensitive Adhesive Tape (Item 21, Appendix D) Nut, Self-Locking (Item 136, Appendix G) Nut, Self-Locking (4) (Item 140, Appendix G) Insulator, Tank (Item 52, Appendix G) Insulator, Tank (Item 53, Appendix G)

Personnel Required

(2)

a. Removal.

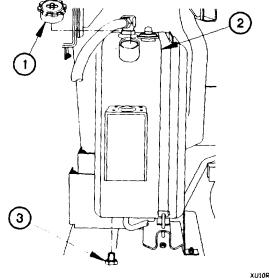
CAUTION

Cap or plug hydraulic connections and connection points to prevent contamination of hydraulic system. Failure to comply may result in damage to equipment.

NOTE

Tag hoses and connection points prior to disconnecting

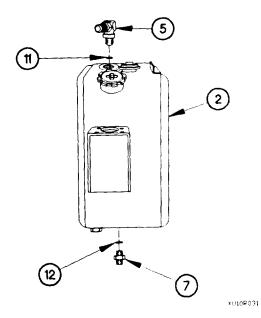
- (1) Remove cap (1) from hydraulic reservoir (2).
- (2) Position container under drain plug (3).
- (3) Remove drain plug (3) from hydraulic reservoir (2) and drain oil.
- (4) Install drain plug (3) in hydraulic reservoir (2).
- (5) Install cap (1) on hydraulic reservoir (2).

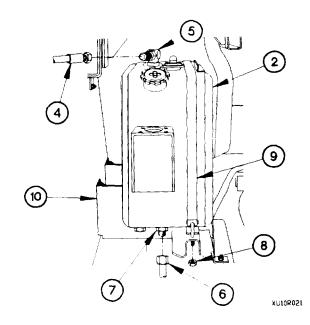


XU10R01A

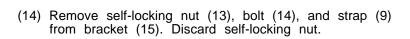
19-13. HYDRAULIC RESERVOIR AND BRACKET REPLACEMENT (CONT)

- (6) Remove hose (4) from 90-degree fitting (5).
- (7) Disconnect hose (6) from fitting (7).
- (8) Remove nut (8) from strap (9).
- (9) Remove hydraulic reservoir (2) from support (10).

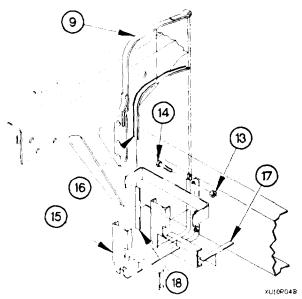




- (10) Remove 90-degree fitting (5) from hydraulic reservoir (2).
- (11) Remove preformed packing (11) from 90-degree fitting (5). Discard preformed packing.
- (12) Remove fitting (7) from hydraulic reservoir (2).
- (13) Remove preformed packing (12) from fitting (7). Discard preformed packing.

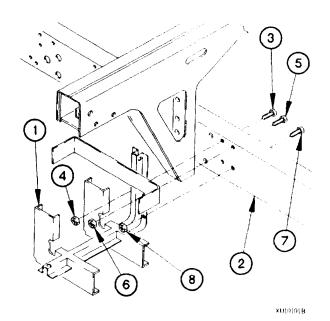


- (15) Remove insulator strap (16) from strap (9).
- (16) Remove insulators (17 and 18) from bracket (15). Discard insulators.

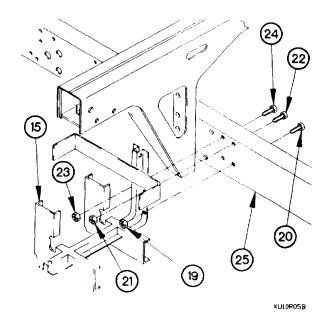


- (17) Remove self-locking nut (19) and bolt (20) from bracket (15). Discard self-locking nut.
- (18) Remove self-locking nut (21) and bolt (22) from bracket (15). Discard self-locking nut.
- (19) Remove two self-locking nuts (23), bolts (24), and bracket (15) from frame rail (25). Discard self-locking nuts.

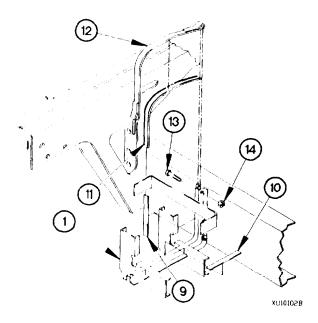
b. Installation.



- (5) Install insulators (9 and 10) on bracket (1).
- (6) Install insulator strap (11) on strap (12).
- (7) Position strap (12) on bracket (1) with bolt (13) and self-locking nut (14).
- (8) Tighten self-locking nut (14) to 39-47 lb-ft (52-64 $N \bullet m$).



- (1) Position bracket (1) on frame rail (2) with two bolts (3) and self-locking nuts (4).
- (2) Position bolt (5) and self-locking nut (6) in bracket (1).
- (3) Position bolt (7) and self-locking nut (8) in bracket (1).
- (4) Tighten two self-locking nuts (4) and self-locking nuts (6 and 8) to 210-225 lb-ft (285-305 N•m).

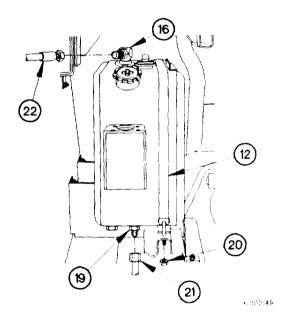


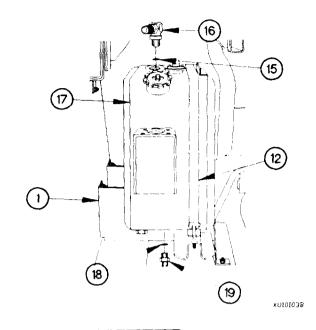
19-13. HYDRAULIC RESERVOIR AND BRACKET REPLACEMENT (CONT)

NOTE

Apply lubricating oil to preformed packings during installation.

- (9) Install preformed packing (15) on 90-degree fitting (16).
- (10) Install 90-degree fitting (16) in hydraulic reservoir (17).
- (11) Install preformed packing (18) on fitting (19).
- (12) Install fitting (19) in hydraulic reservoir (17).
- (13) Position hydraulic reservoir (17) in bracket (1) with strap (12) positioned around hydraulic reservoir (17).





WARNING

Adhesives, solvents, and sealing com-pounds 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, washer immediately with soap and water. Failure to comply may result in injury to personnel.

- (14) Apply sealing compound to threads of nut (20).
- (15) Position nut (20) on strap (12).
- (16) Tighten nut (20) to 42-52 ft-lb (57-71 N•m).
- (17) Connect hose (21) to fitting (19).
- (18) Connect hose (22) to 90-degree fitting (16).

c. Follow-On Maintenance.

- (1) Install hydraulic oil filter assembly (para 19-12).
- (2) Fill hydraulic reservoir (TM 9-2320-365-10).

End of Task.

APPENDIX A REFERENCES

A-1. SCOPE

This appendix lists all forms, field manuals, technical manuals, and other publications referenced in this manual. Those publications that should be consulted for additional information about vehicle operations are also listed.

A-2. PUBLICATIONS INDEX

The following index should be consulted frequently for latest changes or revisions and for new publications relating to material covered in this technical manual.

A-3. FORMS

The following forms pertain to this manual. See DA Pam 25-30 for index of blank forms. See DA Pam 738-750, The Army Maintenance Management System (TAMMS), for instructions on the use of maintenance forms pertaining to this material.

Equipment Control Record	. DA Form 2404
Packaging Improvement Report	
Spare Engines	SF 368
Recommended Changes to DA Publications and Blank Forms	

A-4. OTHER PUBLICATIONS

The following publications contain information pertinent to the LMTV and associated equipment.

a. Safety.

First Aid for Soldiers	21-11
Security of Tactical Wheeled Vehicles	22-20
Safety Inspection and Testing of Lifting Devices	0142

A-4. OTHER PUBLICATIONS (CONT)

b. LMTV.

Direct Support and General Support Maintenance Manual for M1078 Series, 2 1/2-Ton, 4x4, Light Medium Tactical Vehicle (LMTV)
Hand Receipt Covering Contents of Components of End Item (COEI), Basic Issue Items (BII), and Additional Authorization List (AAL), for M1078 Series, 2 1/2-Ton, 4x4, Light Medium Tactical Vehicles (LMTV)
Operator's Manual for M1078 Series, 2 1/2-Ton, 4x4, Light Medium Tactical Vehicle
(LMTV)
M1078 Series, 2 1/2-Ton, 4x4, Light Medium Tactical Vehicle (LMTV) TM 9-2320-365-34P Warranty Program for M1078 Series, 2 1/2-Ton, 4x4, Light Medium Tactical Vehicle
(LMTV)
a Compared Welkinda Comparetion
c. General Vehicle Operation.
Army Motor Transport Units and Operations
Manual for the Wheeled Vehicle Driver
Vehicle Recovery Operations
d. General Maintenance and Repair.
Army Oil Analysis Program
Camouflage Pattern Painting
Color, Marking, and Camouflage Painting of Military Vehicles
Cooling Systems: Tactical Vehicles
Corrosion Prevention and Control Including Rustproofing Procedures for Tactical
Vehicles and Trailers
Description, Use, Bonding Techniques, and Properties of Adhesives
Equipment Improvement Report and Maintenance Summary
Installation Instructions for Installation Kit, Electronic Equipment,
MK-2700/VRC (NSN 5895-01-421-0814) (EIC: N/A) to Permit Installation
of Radio Set AN/VRC-87/88/90 Series into M1078, M1080, M1081, M1083-
M1086, M1088-M1094 and M1096 Family of Medium Tactical Vehicles TB 11-5820-890-20-101 Installation Instructions for Installation Kit, Electronic Equipment,
MK-2715/VRC (NSN 5895-01-421-0812) (EIC: N/A) to Permit Installation
of Radio Set AN/VRC-89/91/92 Series into M1078, M1080, M1081, M1083-
M1086, M1088-M1094 and M1096 Family of Medium Tactical Vehicles
Metal Body Repair and Related Operations
Materials Used for Cleaning, Preserving, Abrading, and Cementing Ordnance Materiel
and Related Materials Including Chemicals
Operator's and Organizational Maintenance Manual Including Repair Parts and
Special Tools List Simplified Test Equipment for Internal Combustion Engines
Reprogrammable (STE/ICE-R) (NSN 4910-01-222-6589)
Operator's Manual, Radio Set, AN/VRC-46

Operator's Manual, Radio Set, AN/VRC-90A
e. Cold Weather Operation.
Basic Cold Weather Manual
f. Decontamination.
Decontamination Operations Facilities & EquipmentTB 700-4NBC ProtectionFM 3-4NBC DecontaminationFM 3-5
g. Maintenance of Special Purpose Kits.
Operator and Organizational Maintenance Manual for Chemical Alarm
Operator's, Organizational, Direct Support, and General Support Maintenance Manual Including Repair Parts and Special Tools List for Various Machine Gun Mounts TM 9-1005-245-14 Operator's, Organizational, Direct Support, and General Support Maintenance
Manual, Air Conditioner, Horizontal Compact, 18,000 BTU/HR, 208 Volt, 3 Phase, 50/60 Hertz, Model F18H-3S
NSN 4520-01-203-4410, and Model UH-68GI, NSN 4520-01-297-6803 TM 5-4520-253-23P
h. General.
Operator's Manual (M998 Series)TM 9-2320-280-10Operator's Manual (M1008 Series)TM 9-2320-289-10Operator's Manual (M35 Series)TM 9-2320-361-10Operator's Manual (M939 Series)TM 9-2320-272-10Principles of Automotive VehiclesTM 9-8000Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use (US Army Tank-automotive and Armaments Command)TM 750-244-6Route Reconnaissance and ClassificationFM 5-36Soldier's Manual MOS 88M Motor Transport Operator, Skill Levels 1/2STP 55-88-M12-SM

TM 9-2320-365-20-4

A-4. OTHER PUBLICATIONS (CONT)

i. Land, Sea, and Air Shipment.

Airdrop of Supplies and Equipment: Rigging 2 1/2-Ton Trucks
Containerization of Military Vehicles
Lifting and Tiedown of U.S. Military Helicopters
Marine Lifting and Lashing Handbook
Marine Terminal Lifting Guidance
Multiservice Helicopter External Air Transport: Basic Operations and Equipment
Multiservice Helicopter External Air Transport: Dual-Point Load Rigging Procedures
Multiservice Helicopter External Air Transport: Single-Point Load Rigging Procedures
Standard Characteristics (Dimensions, Weight, and Cube) for Transportability of Military
Vehicles and Other Outsize/Overweight Equipment (in TOE Line Sequence)
Tiedown Handbook for Rail Movements
Tiedown Handbook for Truck Movements

APPENDIX B MAINTENANCE ALLOCATION CHART (MAC)

SECTION I

INTRODUCTION

B-1. The Army Maintenance System MAC.

- a. This introduction (Section I) provides a general explanation of all maintenance and repair functions authorized at various maintenance levels under the standard Army Maintenance System concept.
- b. The Maintenance Allocation Chart (MAC) in Section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:
 - Unit includes two subcolumns, C (Operator/Crew) and O (Unit) maintenance.

Direct Support - includes an F subcolumn.

General Support - includes an H subcolumn.

Depot - includes a D subcolumn.

- c. Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from Section II.
 - d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.
- B-2. Maintenance Functions. Maintenance functions are limited to and defined as follows:
- **a. Inspect.** To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g. by sight, sound, or feel).
- **b. Test.** To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- **c. Service.** Operations required periodically to keep an item in proper operating condition; e.g. to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemicals fluids, or gases.
- **d. Adjust.** To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.
 - e. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.
- **f. Calibrate.** To determine and cause corrections to be made or to be adjusted on instruments or Test, Measurement, and Diagnostic Equipment (TMDE) used in precision measurement. Consists of comparison of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

- **g.** Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- h. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the 3d position code of the SMR code.
- i. Repair. The application of maintenance services¹ including fault location/troubleshooting², removal/installation, and disassembly/assembly³ procedures, and maintenance actions⁴ to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.
- **j. Overhaul.** That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- **k. Rebuild.** Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

B-3. Explanation of Columns in the MAC, Section II.

- a. Column 1, Group Number. Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly.
- **b. Column 2, Component/Assembly.** Column 2 contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.
- **c. Column 3, Maintenance Function.** Column 3 lists the functions to be performed on the items listed in Column 2. (For detailed explanation of these functions, see Paragraph B-2.)
- d. Column 4, Maintenance Level. Column 4 specifies each level of maintenance authorized to perform each function listed in Column 3, by indicating work time required (expressed in man-hours in whole hours or decimals) in the appropriate subcolumn. This work-time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate work-time figures are to be shown for each level. The work-time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions.

¹Services - Inspect, test, service, adjust, align calibrate, and/or replace.

²Fault location/troubleshooting - The process of investigating and detecting the cause of equipment malfunction; the act of isolating a fault within a system or Unit Under Test (UUT).

³Disassembly/assembly - The step-by-step breakdown (taking apart) of a spare/functional group coded item, to the level of its least component, that is assigned an SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).

⁴Actions - Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance levels are as follows:

С	 Operator or crew maintenance
0	 Unit maintenance
	Direct Support maintenance
L	 Specialized Repair Activity (SRA) ⁵
Н	 General Support maintenance
D	 Depot maintenance

- e. Column 5, Tools and Test Equipment Reference Code. Column 5 specifies, by code, those common tools sets (not individual tools), common TMDE, and special tools, special TMDE, and special support equipment required to perform the designated functions. Codes are keyed to tools and test equipment in Section III.
- f. Column 6, Remarks. When applicable, this column contains a letter code, in alphabetical order, which is keyed to the remarks contained in Section IV.
- B-4. Explanation of Columns in Tool and Test Equipment Requirements, Section III.
- a. Column 1, Reference Code. The tool and test equipment reference code correlates with a code used in the MAC, Section II column 5.
 - b. Column 2, Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.
 - c. Column 3, Nomenclature. Name or identification of the tool or test equipment.
 - d. Column 4, National Stock Number. The National Stock Number of tool or test equipment.
 - e. Column 5, Tool Number. The manufacturer's part number, model number, or type number.
- B-5. Explanation of Columns in Remarks, Section IV.
 - a. Column 1, Remarks Code. The code recorded in column 6, Section II.
- **b. Column 2, Remarks.** This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

⁵This maintenance level is not included in Section II, Column (4) of the Maintenance Allocation Chart. Functions to this level of maintenance are identified by a work-time figure in the "H" column of Section II, Column (4), and an associated reference code is used in the Remarks column (6). This code is keyed to Section IV, Remarks, and the SRA complete repair application is explained there.

(1)	(2)	(3)			(4)			(5)	(6)
				Maintenance Level					
					Direct	General		Tools and	
Group Number	Component/Assembly	Maintenance Function	C	nit O	Support F	Support H	Depot D	Equipment Ref Code	Remarks Code
0100	ENGINE ASSEMBLY	Inspect	C	0.1	Г	П	ט	78	Code
0100	ENGINE AGGENIBET	Test		1.5	0.3			78,79	
		Adjust		1.5	3.0			56,60,78,	
					3.0			80	
		Service		8.0				57,59,78	
		Replace			7.0			16,56,59, 61,78,79	
		Repair		0.4	1.6	3.3		16,31,32, 44,56,59, 60,61,78, 79	
0101	CYLINDER HEAD ASSEMBLY	Inspect			0.1			78	
		Replace			2.0			44,56,59, 60,78	
		Repair				2.5		56,59,60, 61,62,78, 81	
0102	CRANKSHAFT	Replace				16.0		56,57,60, 71,78	
		Repair			3.8	16.0		16,31,32, 56,59,60, 61,78	
0103	FLEXPLATE, ENGINE	Replace			6.5			56,59,78	
		Repair			1.0			56,49,78	
0104	PISTON ASSEMBLY	Replace				9.0		56,57,59, 60,62,78, 79	
		Repair				0.6		78	
0105	CAMSHAFT ASSEMBLY	Replace				3.1		14,56,57, 49,60,78	
		Repair				1.2		56,78	
0105	ROCKER ARM AND PUSH RODS	Replace			2.0			44,59,60, 61,78	
		Repair			0.3			44,78	
0106	COOLER, ENGINE OIL	Replace			1.3			56,78	
	,	Repair			0.3			56,78	
0108	MANIFOLDS, INLET AND EXHAUST	Replace			1.5			56,60,61, 78,79	
0301	INJECTOR ASSEMBLY, FUEL	Replace			2.1			44,57,78, 80	
		Adjust			1.6			56,78,79, 80	
0304	AIR INTAKE SYSTEM	Service		0.3					
		Repair		0.3				46,57	

(1)	Section II. MAINTENANCE A	(3)		11/1			V V L I	(5)	(6)
(')	(2)	(3)		(4) Maintenance Level			(3)	(0)	
					Direct	General		Tools and	
Group		Maintenance		nit	Support	Support	Depot		Remarks
Number		Function	С	0	F	Н	D	Ref Code	Code
0304	INTAKE AIR CLEANER	Service		0.2					
		Replace		8.0				6,46,57,	
		<u>_</u> .						78	
		Repair		0.4				57,78	
0305	TURBOCHARGER	Replace			0.8			56,61,78, 79	
0306	FUEL TANK	Inspect	0.1						
		Replace		1.5				57,59,78	
0308	GOVERNOR, ENGINE SPEED	Replace			1.0			57,60.76,	
		Topiago			1.0			78,79	
		Repair		0.5	0.7			57,78	
0309	FILTER, FUEL/WATER	Inspect	0.2					,	
1	SEPARATOR								
		Service	0.2	0.3				78	
		Replace		0.5				57,78	
0311	ETHER STARTING AID	Replace		0.6				57,59,78	
0312	ACCELERATOR/HAND THROTTLE	Replace		0.5				57,78	
		Adjust		0.2				57,78	
0401	EXHAUST MUFFLER/PIPES	Inspect	0.1	0.2					
		Replace		0.9				57,59,78	
0501	RADIATOR/CHARGE AIR COOLER	Inspect	0.1						
		Replace		2.5				2,27,53, 59,78	
		Service		1.5				59,79	
		Repair		0.6	2.0			2,27,53, 59,78	
0501	RADIATOR OVERFLOW TANK	Replace		0.5				46,57,78	
		Repair		0.3				78	
0502	SHROUD, FAN	Replace		1.0				57,59,78, 86	
0503	HOSES, WATER	Replace		0.5				57,59,78, 86	
0504	PUMP, WATER	Replace		0.8				15,57,59, 78,86	
0505	CLUTCH, ENGINE FAN	Inspect		1.0				57	
		Service		0.2				59	
		Replace		1.5				2,53,57, 78	
		Repair			1.2			56,59,60, 61,78,79	

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(1)	(2)	(3)			(4)			(5)	(6)
					Maintenan	ce Level			
					Direct	General		Tools and	
Group	Component/Accombly	Maintenance	C	nit	Support F	Support H			Remarks
Number 0601	Component/Assembly ALTERNATOR, 100 AMP	Function Inspect	٥	O	F	н	D	Ref Code	Code
0001	ALTERNATOR, 100 AMP				4.5			50.00.70	
		Test		0.5	1.5			59,63,78	
		Replace		1.0				59,78	
		Repair		0.2	0.5			38,56,57,	
								59,63,78, 79	
0603	STARTING MOTOR, ENGINE	Inspect		0.1				75	
0003	STARTING MOTOR, ENGINE	Test		0.5	0.5			57,63	
					0.5			· ·	
		Replace		1.5				2,9,57, 59,78	
		Repair			2.1			52,56,59,	
		Керап			2.1			60,76,78	
0606	SOLENOID, FUEL SHUTOFF	Replace			1.0			60,78,80	
0607	CABLE ASSEMBLY,	Test		0.5	1.0			56	
0007	DASHBOARD	1621		0.5				30	
	57 to 1.15 c / ti t.5	Replace		2.9				57,59,76,	
								78	
		Repair		1.0	0.6			56,57,61,	
								78	
0607	DISPLAY, LIGHTED	Test		0.3					
	INDICATOR								
		Replace		0.5				78,86	
		Repair		0.3				78	
0609	LIGHT ASSEMBLY, BACKUP	Inspect	0.1						
		Replace		8.0				57,78	
		Repair		0.3				78	
0609	LIGHT, BLACKOUT DRIVE	Inspect	0.1						
		Replace		8.0				57,59,78	
0609	TAILLIGHT ASSEMBLY, COMPOSITE	Inspect	0.1						
		Replace		8.0				57,59,78	
		Repair		0.5				78	
0609	LIGHT ASSEMBLY, FRONT TURN SIGNAL AND PARK	Inspect	0.1						
		Replace		0.8				57,59,78	
		Repair		0.5				78	
0609	 HEADLIGHT	Inspect	0.1	0.0					
0003	I LADEIOI II	Adjust	0.1	0.4				78	
		Replace		1.0				57,59,78	
0610	AUDIBLE ALARM	Inspect	0.1					5.,55,15	
		Replace		0.6				78	
0611	HORN, CAB	Inspect	0.1						

(1)	(2)	(3)			(4)		(5)	(6)	
	. ,				Maintenan				
					Direct	General		Tools and	
Group	0	Maintenance		nit	Support F	Support			Remarks
Number	Component/Assembly	Function Replace	С	O	Г	Н	D	Ref Code 57,78	Code
0612	BOX ASSEMBLY, BATTERY	Inspect	0.1	0.4				57,76	
0012	BOX ASSEMBLT, BATTERT	Test	0.1	0.5				57,78	
		Service		0.3				57,76	A
		Replace		1.0				57,59,78	
		Repair		0.2				63	
0613	CABLE ASSEMBLY, LH/RH CAB AND DOOR MARKER LIGHTS	Inspect	0.1	0.2				03	
		Replace		8.0				78	
		Repair		0.7				63	
0613	CABLE ASSEMBLY, LOWER, CAB MARKER LIGHTS, M1081	Inspect	0.1						
		Replace		0.6				78,86	
		Repair		0.5				63	
0613	CABLE ASSEMBLY, UPPER, CAB CLEARANCE AND MARKER LIGHTS, M1081	Inspect	0.1						
		Replace		8.0				78,86	
		Repair		0.5				63	
0613	CABLE ASSEMBLY, STE/ICE-R	Replace		1.0				78	
		Repair		0.5	0.8			63	
0613	CABLE ASSEMBLY, CAB CLEARANCE AND MARKER LIGHTS	Inspect	0.1						
		Replace		1.2				57,78	
		Repair		0.5	0.8			63	
0613	CABLE ASSEMBLY, WARNING LIGHT	Replace		0.5				48,78,86	
		Repair		0.3	0.5			63	
0613	CABLE ASSEMBLY, WINDSHIELD WASHER PUMP/EMI	Replace		0.5				78	
		Repair		0.3				63	
0613	CABLE ASSEMBLY, ENGINE CONTROL	Inspect	0.1						
		Replace		2.3				57,78	
		Repair		0.5	0.5			63	
0613	CABLE ASSEMBLY, FRONT INTERVEHICULAR, 12 VDC	Replace		8.0				59,78	
		Repair		0.2	1.3			63	

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(1)	(2)	(3)	(4)				(5)	(6)	
	,				Maintenan			()	, ,
					Direct	General		Tools and	
Group		Maintenance		nit	Support	Support			Remarks
Number 0613	CABLE ASSEMBLY, FRONT	Function	ပ	o 2.0	F	Н	D	Ref Code	Code
0613	LIGHTS	Replace		2.0				57,59,78, 86	
		Repair		0.5	0.5			63	
0613	CABLE ASSEMBLY, REAR	Replace		2.8	0.0			57,59,78	
0010	LIGHTS	Replace		2.0				01,00,10	
		Repair		0.5	0.5			63	
0613	CABLE ASSEMBLY, PTO	Replace		1.6				57,59,78	
		Repair		0.5	0.8			63	
0613	CABLE ASSEMBLY, REAR INTERVEHICULAR, 24 VDC	Replace		0.6				59,78	
		Repair		0.5	0.8			63	
0613	CABLE ASSEMBLY, START AND CHARGING	Replace		2.0				57,78	
		Repair		0.5	0.8			63	
0613	CABLE ASSEMBLY, WINCH CONTROL VALVE	Replace		1.8				57,59,78	
		Repair		0.5	0.8			63	
0705	WTEC II VEHICLE INTERFACE MODULE (VIM)	Replace		0.6				78	
		Repair		8.0				78	
0708	TORQUE CONVERTER	Adjust			0.9			18,59,60, 78	
		Remove/			0.8			56,59,60,	
		Install						61,78	
		Repair			1.3			30,56,59, 60,62,78	
0710	TRANSMISSION	Inspect		0.4				78	
		Service		1.5				57,59,78	
		Replace			7.0			56,59,60, 61,78,79, 84	
		Repair		0.4	2.7	1.9		3,18,19, 24,25,27, 41,56,57, 59,60,61, 78,79,84	
0710	MODULE, FRONT SUPPORT	Remove/ Install				2.0		56,57,59,	
		Repair				0.7		30,56,57, 59,60,61, 78	
	MODULE, PLANETARY GEAR (P1)	Remove/ Install				2.0		59,60,71, 78	

(1)	(2)	(3)			(4)			(5)	(6)
					Maintenan				
0			l		Direct	General	D	Tools and	D
Group Number	Component/Assembly	Maintenance Function	C	nit O	Support F	Support H	Depot	Equipment Ref Code	Remarks Code
Number	Component/Assembly	Repair	C	0	Г	<u>п</u> 1.5		59,60,71,	Code
		rtopan				1.0		78	
0710	MODULE, PLANETARY (P2)	Remove/				2.0		3,56,59,	
		Install						60,61,78	
		Repair				1.9		3,19,56,	
								59,60,61,	
0740	DI ANETADY CARRIER (PO)	D /				0.0		71,78	
0710	PLANETARY CARRIER (P3)	Remove/ Install				2.0		3,56,60, 78	
						1.9		3,27,56,	
		Repair				1.9		60,78	
0710	MODULE, MAIN SHAFT	Remove/				2.0		59,60,78	
07.10		Install				2.0		00,00,70	
		Repair				0.4		59,60,78	
0710	MODULE, CONVERTER	Remove/				4.3		3,56,57,	
	HOUSING	Install						59,60,78	
		Repair				2.0		3,19,25,	
								56,57,59,	
0740	CLUTCU A COEMBLY	D /				0.0		60,78	
0713	CLUTCH ASSEMBLY, C3/C4/C5, TRANSMISSION	Remove/ Install				2.0		56,57,59, 60,78	
	C3/C4/C3, TRANSMISSION	Repair				1.0		41,56,57,	
		Керап				1.0		59,60,78	
0713	MODULE, ROTATING	Remove/				2.0		3,56,59,	
	CLUTCH	Install						60,78	
		Repair				2.4		3,19,24,	
								56,59,60,	
0714	VALVE ASSEMBLY,	Remove/			2.0			78 56,59,60,	
0714	CONTROL MODULE	Install			2.0			61,78,79	
		Repair		1.0	2.5			59,61,78,	
0714	BODY ASSEMBLY, MAIN	Service		1.5				57,59,78	
	VALVE							01,00,10	
		Remove/			2.0			56,59,60,	
		Install						61,78,79	
		Repair		1.5	2.5			56,59,60,	
0004	MODULE TRANSFER CASE	A 12 - 4				4.5		61,78,79	
0801	MODULE, TRANSFER CASE	Adjust				1.0		04.50.55	
		Remove/ Install				2.0		21,56,57, 59,60,61,	
		IIIStali						71,74,78,	
								79	
		Repair				1.1		23,27,33,	
								50,56,57,	
								60,78	

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(1)	(2)	(3)			(4)	ı		(5)	(6)
					Maintenan Direct	ce Level General		Tools and	
Group		Maintenance	111	nit	Support	Support	Denot		Remarks
Number	Component/Assembly	Function	С	0	F	Н	Depot	Ref Code	Code
0802	HOUSING ASSEMBLY, C6	Remove/				2.0		56,59,60,	
	AND C7 CLUTCH	Install						61,78	
		Repair				0.8		19,23,26,	
								27,28,29,	
								56,59,60, 61,62,71,	
								78	
0802	CONTROL VALVE	Remove/				2.0		56,59,61,	
	ASSEMBLY	Install						78,79	
		Repair				1.0		56,59,61,	
								78,79	
0804	PUMP ASSEMBLY, OIL	Replace				1.0		79	
		Repair				0.8		79	
0900	PROPELLER SHAFT	Inspect		0.1					
		Service		0.5				59	
		Repair		0.6				57,59,78	
		Replace		0.5				57,59,78	
1000	AXLE ASSEMBLY, FRONT	Inspect	0.1	0.3	0.7			78	
		Adjust			1.0			57,79	
		Service		0.5				59,78	
		Replace			4.5			56,57,59,	
								60,61,70,	
		Repair		2.3	2.2	6.0		56,57,59,	
								60,61,78	
1002	CARRIER ASSEMBLY,	Inspect		0.1	0.1	0.1		78,79	
	DIFFERENTIAL	Comico			0.0			70	
		Service			0.3			78	
		Replace				4.6		21,56,57, 59,60,78,	
		Donoir				2.7			
		Repair				2.7		56,57,59, 60,78,79	
1004	STEERING KNUCKLE, AXLE	Inspect			0.2			00,70,70	
1004	OTEENING KINGGKEE, TOKEE	Adjust			2.5			79	
		Service			0.3			79	
		Replace			5.1			56,57,59,	
		Topiaoe			5.1			60,71,78	
1100	AXLE ASSEMBLY, REAR	Inspect	0.1	0.4	0.7			, ,	
	·	Service		0.8				57,59,78	
		Replace			4.5			34,56,57,	
								59,60,78,	
								84	

(1)	(2)	(3)		. 17 (1	(4)			(5)	(6)
(',	(-)				Maintenan			(0)	(•)
					Direct	General		Tools and	
Group		Maintenance		nit	Support	Support			Remarks
Number	Component/Assembly	Function	С	0	F	Н	D	Ref Code	Code
		Repair			0.9	6.0		21,56,57, 59,60,78,	
								84,85	
1102	CARRIER ASSEMBLY,	Inspect		0.1	0.1	1.0		78,79	
	DIFFERENTIAL								
		Service			0.3			78	
		Replace				4.6		21,56,57,	
								59,60,78,	
		Repair				2.7		79,85 21,37,56,	
		Перап				2.1		57,59,60,	
								71,73,78	
1202	BRAKE ASSEMBLY, FRONT	Inspect		0.1	1.0			59,78,79	
	AXLE								
		Adjust		0.4				57,59,78,	
		Repair		1.5	0.5			57,59,78,	
								83	
1202	BRAKE ASSEMBLY, REAR	Inspect		0.1	1.0			59,78,79	
	AXLE								
		Adjust		0.4				57,59,78	
		Repair		1.5	0.5			57,59,78,	
1000		ln an a at		0.4				83	
1208	BRAKE AIR CHAMBER	Inspect		0.1				F7 F0 70	
4000	ALD COMPRESSOR	Replace		0.5				57,59,78	
1209	AIR COMPRESSOR	Adjust		0.6	4.0			59,78	
		Replace			1.2			56,60,61, 78,79	
1311	WHEEL ASSEMBLY,	Inspect	0.1						В
	PNEUMATIC TIRE	Поресі	0.1					31	
		Replace	1.0	1.2				57,59	
		Repair		2.0				57,59	
1313	TIRE, PNEUMATIC	Replace		2.0				57,59	
1401	STEERING SYSTEM	Inspect		0.2				,	
		Adjust			1.0			56,60,78	
		Repair		1.0	1.5			54,56,57,	
		Ttopan		1.0	1.0			59,60,61,	
								78,79	
1407	STEERING GEAR ASSEMBLY	Replace			4.0			56,60,78	
1410	PUMP, POWER STEERING	Replace			1.5			47,56,59,	
								60,78	
1411	HOSES, POWER STEERING	Replace		0.3				57,59,78,	
								88	
1413	HYDRAULIC RESERVOIR,	Service	0.1	0.5				78	
	POWER STEERING	Replace		0.8				59,78,86	
I		Ivehiace	l	0.0				J3,10,0U	ı İ

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(1)	(2)	(3)		\	(4)			(5)	(6)
	, ,				Maintenan	ce Level			, ,
					Direct	General		Tools and	
Group		Maintenance		nit	Support	Support			Remarks
Number	Component/Assembly FRAME ASSEMBLY	Function	C	O	F	Н	D	Ref Code	Code
1501	FRAME ASSEMBLY	Inspect	0.1		440			50 57 50	
		Repair		8.0	14.0			56,57,59, 60,61,78,	
								79	
1504	RETAINER, SPARE TIRE	Inspect	0.1	0.1					
		Replace		3.0				57,59,78	
		Repair		0.6				57,59,78	
1601	LEAF SPRING ASSEMBLIES	Inspect	0.1	0.2					
		Service		0.3				57	
		Replace			2.7			56,57,59,	
								60,78,79	
1604	SHOCK ABSORBERS	Inspect	0.1	0.3					
		Replace		0.5				57,59,78	
1605	STABILIZER BAR, REAR	Inspect		0.2					
		Replace		2.0				57,59,68, 78	
		Repair		1.5				76 57,78	
1801	CAB BODY, STANDARD	Inspect	0.1	1.5				37,76	
1001	CAB BODT, STANDARD	Replace	0.1		60.0			56,57,60,	
		Поріасс			00.0			61,78,79	
		Repair		0.6				57,59,78	
1801	CAB BODY, AIR DROP	Inspect	0.1					, ,	
	,	Replace			60.0			56,57,60,	
								61,78,79	
		Repair		0.6				57,59,78	
1801	CAB DOORS, STANDARD	Inspect	0.1						
		Replace			1.0			55,59,78	
		Repair		2.7				49,57,78	
1801	CAB DOORS, AIR DROP	Inspect	0.1						
		Replace			1.0			55,59,78	
		Repair		2.7				49,57,78	
1801	SUPPORT ASSEMBLY, CAB	Inspect	0.1						
	FRONT								
		Repair		1.1				57,59,78	
		Replace			3.0			8,13,57,	
								59,60,78, 79	
1801	SUPPORT ASSEMBLY, CAB	Inspect	0.1						
	REAR								
		Replace		1.0				57,59,78	
		Repair		0.8				57 7 <u>9</u>	
1802	WINDSHIELD	Replace		0.0	0.6			57,78 55,59,78	
1.002	112011122	I. topiaoo	I	1	0.0	l l	l	55,55,75	ı İ

(1)	(2)	(3)			(4)			(5)	(6)
					Maintenan				
0		BA a i m t a m a m a a	١	!4	Direct	General	D 1	Tools and	Damasila
Group Number	Component/Assembly	Maintenance Function	C	nit O	Support F	Support H	Depot D	Equipment Ref Code	Remarks Code
1802	FENDER, VEHICULAR,	Inspect	0.1		ı	- "		Nei Code	Code
	FRONT								
		Replace		2.0				57,59,78	
4000	D005 045 144004	Repair		0.5				57,78	
1803	ROOF, CAB, M1081	Replace		1.0				45,50,57, 59,78	
1805	FLOOR COVERING, CAB	Replace		1.0				57,78	
1806	SEATS	Replace							
1808	TOOL BOX ASSEMBLY	Inspect	0.1						
		Replace		0.5				47,57,59,	
								78	
		Repair		0.5				57,59,78	
1808	STOWAGE BOX, CAB	Replace		8.0				57,78	
		Repair		0.5				57,78	
1810	BODY, CARGO	Inspect	0.1						
		Replace			4.0			56,57,59,	
		Repair		0.5				60,78 57,59,78	
1812	BODY ASSEMBLY, VAN	Inspect	0.1	0.3				57,59,76	
1012	BODT ASSEMBLT, VAIN	Repair	0.1	0.5				20,35,36,	
		IXepaii		0.5				42,43,47,	
								57,59,64,	
								72,76,78	
		Replace		1.9				36,64,78	
1812	DOOR, ACCESS, LEFT	Inspect	0.1						
		Replace		2.3				78	
		Repair		0.1				57,59,78	
1812	DOOR, ACCESS, RIGHT	Inspect	0.1						
		Replace		1.4				78	
		Repair		0.4				57,59,78	
1812	WINDOW SASH ASSEMBLY	Inspect	0.1						
		Replace		0.2				78	
		Repair		0.4				57,59,78	
1812	BOX ASSEMBLY, RELAY	Inspect	0.1	0.1					
		Replace		0.6				78	
		Repair		0.1				78	
		Test	0.1	0.5				59,78	
1812	FAN ASSEMBLY	Inspect	0.1						
		Replace		1.8				20,76,78	
		Repair		0.5				78	
2001	WINCH, 11K SELF-	Inspect	0.1	4.0					
	RECOVERY (SRW)								

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(1)	(2)	(3)			(4)			(5)	(6)
					Maintenan			-	
Group		Maintenance	١.,	nit	Direct	General	Donot	Tools and	Remarks
Group Number	Component/Assembly	Function	С	0	Support F	Support H	Depot	Equipment Ref Code	Code
Number	Component/Assembly	Service	Ŭ	0.2	•	•••		59	Jour
		Replace			1.0			59,60,78	
		Repair			0.9			59,60,78	
2004	POWER TAKEOFF	Inspect	0.1						
		Replace			1.0			56,57,59, 60,78	
		Repair			0.8			56,57,59, 60,78	
2202	MOTOR, WIPER, WINDSHIELD	Test		0.5				,	
		Replace		1.0				78	
2207	HEATER ASSEMBLY, PERSONNEL	Replace		2.0				57,59,78	
2210	DECALS	Inspect	0.1						
		Replace		1.0				78	
2401	POWER UNIT, AIR/HYDRAULIC	Inspect	0.1						
		Test		0.2					
		Service		1.0					
		Replace		3.0				57,59,78	
		Repair			2.0			57,59,60, 69,78,79	
2402	MANIFOLD, HYDRAULIC	Inspect	0.1						
		Test		0.2					
		Replace		1.5				51,57,59, 78	
		Repair		1.0				51,57,59, 78	
2402	LATCH, HYDRAULIC, CAB	Inspect	0.1						
		Adjust		0.5				57,59,78	
		Replace		0.5				57,59,78	
2404	SUSPENSION CYLINDER	Inspect							
		Replace							
2406	FILTER, HYDRAULIC	Service		0.3				59,78	
		Replace		0.2				59,78	
2408	DECEDIAND HADDVING			1.0					
2400	RESERVOIR, HYDRAULIC	Replace						57,59,78 57,50,78	
		Repair		0.5				57,59,78	
3303	CAB ARCTIC KIT	Inspect	0.2						
		Test		1.0					

(1)	(2)	(3)		, 31	(4)		· · ·	(5)	(6)
(' '	(-)	(0)			Maintenan			(0)	(0)
					Direct	General		Tools and	
Group		Maintenance		nit	Support	Support			Remarks
Number	Component/Assembly	Function	С	0	F	Н	D	Ref Code	Code
		Remove/ Install			6.0			56,57,59, 60,78,79,	
		Ilistali						86	
		Replace		1.0				57,59,78,	
		i i						86	
		Repair		1.7				57,59,78	
								86	
3303	CABLE ASSEMBLY, ARCTIC	Replace		1.8				57,59,78	
	KIT WITH PTO								
		Repair		0.5	0.5			63	
3303	CARGO ARCTIC KIT	Inspect	0.2						
		Test		1.0					
		Remove/			12.0			56,57,59,	
		Install						60,78,79,	
		Devises		4.0				86	
		Replace		1.0				57,59,78, 86	
		Donoir		1.7				57,59,78,	
		Repair		1.7				86	
3303	FURNACE ASSEMBLY,	Replace		3.0				57,59,78,	
3303	CARGO	Replace		3.0				86	
		Repair		0.5				57,59,78,	
								86	
3303	CABLE ASSEMBLY,	Inspect	0.1						
	FURNACE, CARGO								
		Replace		0.5				57,59,78	
		Repair		0.7				57,59,78	
3303	CONTROL UNIT ASSEMBLY,	Replace		1.5				57,59,78	
	FURNACE								
		Repair		0.5				4,20,22,	
								39,57,78	
3303	HEATER ASSEMBLY, VEHICULAR	Inspect	0.1						
	VEHICOLAR	Toot		0.5					
		Test		0.5				E0 70	
		Service		0.5				59,78	
		Replace		1.5				57,78,86	
		Repair		1.5				57,78,86	
3303	SWINGFIRE ADAPTER KIT	Inspect	0.2						
		Test		1.0					
		Remove/		3.0	7.0			57,59,78,	
		Install						86	
		Replace		1.0				57,59,78,	
		Danci-		4 7				86	
		Repair		1.7				57,59,78, 86	
I	I	I	l	l			1	100	l l

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Section II. MAINTENANCE ALLOCATION CHART FOR THE LMTV VEHICLE (CONT)

(1)	(2)	(3)			(4)			(5)	(6)
					Maintenan				
0		B# = : 4 = = -	l		Direct	General	D 1	Tools and	Damasılıs
Group Number	Component/Assembly	Maintenance Function	С	nit O	Support F	Support H	Depot D	Equipment Ref Code	Remarks Code
3303	HEATER KIT, M1079	Inspect	0.1	U	<u> </u>	П	D	Rei Code	Code
0000	112/112/11/11/10/5	Remove/	0.1	2.5				78	
		Install		2.5				70	
3305	FORDING KIT, DEEP WATER	Inspect	0.1						
		Remove/ Install		4.0				57,59,78	
3307	ALTERNATOR KIT, 200 AMP	Inspect	0.1	0.2					
		Test		0.5				59	
		Remove/ Install		2.0				57,59,78	
		Replace		1.0				57,59,78	
		Repair			0.5			56,57,60,	
								62,78	
3307	ALTERNATOR, 200 AMP	Inspect		0.2					
		Test		0.5	1.5			59,63,78	
		Replace		1.0				57,59,78	
		Repair		0.2	0.5			56,57,60,	
3307	CRANE (LMHC), MATERIAL HANDLING, LIGHT	Inspect	0.1	0.1				61,63,78	
		Repair		0.5				59,76,78	
		Replace		0.5					
		Test		0.5					
3307	WEIGHT BLOCK AND WIRE ROPE, LMHC	Inspect	0.1						
		Replace		0.1				59,78	
		Repair		0.5				59,78	
		Test			0.5				
3307	WINCH, LMHC	Inspect	0.1						
		Replace			0.5			59,78	
		Repair			1.0			59,78	
		Test		0.5					
3307	MAST/SWING ASSEMBLY, LMHC	Inspect	0.1						
		Repair		1.0				59,78	
		Test		0.5					
3307	CONTROL BOX, LMHC	Inspect	0.1						
		Replace		0.1					
		Repair		0.5				76,78	
		Test	0.1	0.5				·	
3307	TROOPSEAT KIT	Remove/ Install	1.0						

Section II. MAINTENANCE ALLOCATION CHART FOR THE LMTV VEHICLE (CONT)

	Section II. MAINTENANCE ALLOCATION CHART FOR THE LMTV VEH					•			
(1)	(2)	(3)			(4)			(5)	(6)
				Maintenance Level Direct Genera		General		Tools and	
Group		Maintenance	lυ	nit	Support	Support	Depot		Remarks
Number	Component/Assembly	Function	С	0	F	Н	D	Ref Code	Code
		Inspect	0.1						
		Replace		1.0					
		Repair		0.5				78	
3307	COVER KIT, CARGO SOFT TOP	Remove/ Install	1.5						
		Inspect	0.1						
		Replace		2.0					
		Repair		0.5					
3307	AIR CONDITIONER KIT, M1079	Inspect	0.1						
		Remove/ Install		1.5				59,78	
3307	WARNING LIGHT ASSEMBLY, AMBER	Inspect	0.1						
		Repair		0.4				78	
		Test		0.2					
3401	MACHINE GUN RING KIT	Inspect	0.1						
		Remove/ Install			4.0			56,57,60, 78,79,84	
		Repair		1.1				10,57,78	
3402	MOUNT, SMALL ARMS	Inspect	0.1						
		Replace		0.3				78	
3909	CABLE ASSEMBLY, WARNING LIGHT	Inspect	0.1						
		Replace		0.5				78	
4316	AIR HOSE, CTIS	Inspect	0.1						
		Replace		0.4				59,78	
4317	VALVE, INVERSION	Replace		0.5				59,78	
4321	AIR DRYER	Inspect	0.1	0.1					
		Replace		1.0				57,59,78	
		Repair		0.6				57,59,78	
4702	GAUGE, AIR FILTER RESTRICTION	Replace		0.5				78	

Section III. TOOLS AND TEST EQUIPMENT FOR LMTV VEHICLES

Tool or Test				
Equipment	Maintenance	Nomenclature	National Stock Number	Tool Number
REF Code				
1	O,F	ADAPTER, RADIATOR	4910-01-170-4928	J29003-A
2	0	ADAPTER, SOCKET WRENCH	5120-00-240-8702	11655788-2
3	Н	BUSHING DRIVER SET	5120-01-391-3541	J35922
4	0	CRIMPING TOOL, TERMINAL,	5120-00-165-3912	M22520/1-01
		HAND		
5	0	CROWFOOT ATTACHMENT,	5120-00-078-3809	10935497
		SOCKET WRENCH		
6	0	CROWFOOT ATTACHMENT,	5120-00-293-1010	5120-293-1282
		SOCKET WRENCH		
7	F	CROWFOOT ATTACHMENT,	5120-00-181-6754	GGG-C-1507
		SOCKET WRENCH		
8	F	CROWFOOT ATTACHMENT,	5120-01-074-7557	FCOM19
		SOCKET WRENCH		
9	0	CROWFOOT ATTACHMENT,	5120-01-236-9996	FCOM15
		SOCKET WRENCH		
10	Ο	CROWFOOT ATTACHMENT,	5120-01-335-1091	FCO32
	_	SOCKET WRENCH		
11 O		CROWFOOT ATTACHMENT,	5120-01-335-1119	SCO34
	_	SOCKET WRENCH		
12	Ο	CROWFOOT ATTACHMENT,	5120-01-335-1122	SCO40
	_	SOCKET WRENCH		
13	F	CROWFOOT ATTACHMENT,	5120-01-348-9473	AN8508-19A
		SOCKET WRENCH		
14	Н	DRIVER KIT, BEARING	4910-01-032-3128	8S0602
15	0	GAGE, BELT TENSION	6635-01-092-7462	0755-0101
16	O,F	GAGE, BELT TENSION	6635-01-143-2237	GA-424
17	O,F	GAGE, PRESSURE, 0-150 psi	6685-00-474-5721	111T1D05A01
18	F,H	GAGE, PROFILE	5220-01-388-1460	J-38548-1
19	Н	HANDLE, DRIVE	5120-00-377-2259	J8092
20	0	HEATER, GUN TYPE, ELECTRIC	4940-00-561-1002	500A
21	F,H	HOLDING BAR, PINION	5120-01-166-0573	J3453
22	0	INSERTER AND REMOVER,	5120-00-915-4588	MS3447-16
20	11	ELECTRICAL CONTACT	E400 04 000 0000	100570
23	H	INSERTER AND REMOVER, SPRING	5120-01-388-3660	J38573
24	H	INSERTER AND REMOVER, SPRING	5120-01-388-4436	J35923
25 26	Н	INSERTER, BEARING AND BUSHING	5120-01-388-7841	J-38565
26	Н	INSERTER, BEARING AND BUSHING	5120-01-389-0658	J 35921-1
27	Н	INSERTER, BEARING AND BUSHING	5120-01-390-1104	J 38569
28	H H	INSERTER, BEARING AND BUSHING	5120-01-390-1105	J 38568-3
29		INSERTER, BEARING AND BUSHING	5120-01-391-5133	J38579
30	F,H	INSERTER, BEARING AND BUSHING	5120-01-414-7398	J38566
31	F F	INSERTER, SEAL	5120-01-362-2026	1U7430
32		INSERTER, SEAL	5120-01-362-2027 N/A	1U7598
ა პ		33 F INSTALLER, SEAL		J38574

Section III. TOOLS AND TEST EQUIPMENT FOR LMTV VEHICLES

Tool or Test					
Equipment REF Code	Maintenance Level	Nomenclature	National Stock Number	Tool Number	
34	F	JACK, LEVELING SUPPORT,	2590-00-231-7418	10876244	
		VEHICLE			
35	0	KEY, SOCKET HEAD SCREW	5120-00-984-0247	58010	
36	0	LINK, CHAIN, END	4010-00-932-5013	NAS1049-16	
37	Н	PULLER KIT, UNIVERSAL	5180-00-089-3660	A57QB	
38	F	PULLER KIT, UNIVERSAL	5180-01-124-1903	1P3075	
39	0	REMOVER, ELECTRICAL CONTAC	5120-00-148-9844	MS3448-001B	
40	F	RIVETER, BLIND, HAND	5120-01-289-4310	HP-2	
41	Н	RIVETER, YOKE, HAND	5120-01-415-3558	J-39354	
42	Ο	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-00-180-0881	5120-00-180-0881	
43	0	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-053-4158	FAM5A	
44	O,F,H	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-055-1308	ANSIB18.3.2M	
45	0	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-079-8032	SAM8A	
46	0	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-160-8862	S 6 HBS	
47	O,F	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-367-3462	SA10A	
48	O,F	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-367-3497	TMP12A	
49	0	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-367-3519	F23D	
50	0	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-367-3526	FP24	
51	0	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-367-3527	FP32A	
52	F,H	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-367-3536	FTX40A	
53	0	SCREWDRIVER ATTACHMENT, SOCKET WRENCH	5120-01-367-3574	GFA8A	
54	0	SEPARATOR, BALL JOINT	5120-01-255-8238	2287	
55	F	SETTING TOOL, WINDSHIELD	5120-01-316-4995	CRL216	
56	O,F	SHOP EQUIPMENT, AUTOMOTIVE VEHICLE	4910-00-348-7696	SC4910-95CLA02	
57	O,F,H	SHOP EQUIPMENT, AUTOMOTIVE VEHICLE	4910-00-754-0650	SC4910-95CLA72	
58	0	SHOP EQUIPMENT, AUTOMOTIVE VEHICLE	4910-00-754-0653	SC4910-95CLA73	
59	O,F,H	SHOP EQUIPMENT, AUTOMOTIVE VEHICLE	4910-00-754-0654	SC4910-95CLA74	
60	F,H	SHOP EQUIPMENT, AUTOMOTIVE VEHICLE	4910-00-754-0705	SC4910-95CLA31	
61	F,H	SHOP EQUIPMENT, AUTOMOTIVE VEHICLE	4910-00-754-0706	SC4910-95CLA62	

Section III. TOOLS AND TEST EQUIPMENT FOR LMTV VEHICLES

Tool or Test				
Equipment REF Code	Maintenance Level	Nomenclature	National Stock Number	Tool Number
62	O,F,H	SHOP EQUIPMENT, AUTOMOTIVE	4910-00-754-0707	SC4910-95CLA63
02	O,1 ,1 1	VEHICLE	4310 00 734 0707	004310 330LA03
63	O,F	SHOP EQUIPMENT, FUEL AND ELECTRICAL	4910-00-754-0714	SC4910-95CLA01
64	0	SLING, EYE	3940-01-334-0749	EE1-202
65	F	SLING, MULTIPLE LEG	3940-00-777-5744	A170
66	Н	SOCKET SET, SOCKET WRENCH	5120-01-195-0640	208FA
67	F,H	SOCKET, SOCKET WRENCH	5120-01-068-5643	5555M
68	O	SOCKET, SOCKET WRENCH	5120-01-161-5907	GLDH382
69	F	SOCKET, SOCKET WRENCH	5120-01-335-0784	TW321
70	0	SOCKET, SOCKET WRENCH	5120-01-359-9521	TV940009
71	F	SOLDERING AND BRAZING OUTFIT, RESISTANCE HEATING	3439-00-460-7198	SC4940-95-CLB20
72	0	SOLDERING IRON, ELECTRIC	3439-01-036-3308	3112-S3-40W
73	Н	STAND, DIFFERENTIAL CARRIER REPAIR	4910-01-085-7729	J3409-D
74	Н	STAND, MAINTENANCE AUTOMOTIVE ENGINE	4910-00-808-3372	J29109
75	0	TESTING APPARATUS	4910-01-426-3974	440.28
76	O,F	TOOL KIT, AUTO FUEL AND ELECTRICAL SYSTEM REPAIR	5180-00-754-0655	SC4910-95CLA50
77	F	TOOL KIT, BODY AND FENDER	5180-00-754-0643	SC5180-90-N34
78	O,F,H	TOOL KIT, GENERAL MECHANIC'S	5180-00-177-7033	SC5180-90-CL-N26
79	F,H	TOOL KIT, GENERAL MECHANIC'S	5180-00-699-5273	SC5180-90-CL-N05
80	F	TOOL KIT, INTERNAL COMBUSTION ENGINE	5180-01-356-8155	1U6680
81	Н	TOOL KIT, SLEEVE REPAIR	5180-01-415-5896	4C4462
82	F	TOOL OUTFIT, HYDRAULIC	4940-01-036-5784	SC4940-95-CL-B07
83	0	TOOL, SPRING REMOVAL	5120-01-360-1918	TV940010
84	F	WRENCH SET, CROWFOOT, RATCHETING	5120-00-293-0013	GGG-W-646
85	F	WRENCH SET, SOCKET	5120-00-148-3706	ANSI-B107.5
86	0	WRENCH, TORQUE, 0-75 LB-IN.	5120-01-112-9532	TQSC6A

Section IV. REMARKS FOR THE LMTV VEHICLE

Remarks Code	Remarks
Α	Battery service will be in accordance with TM 9-6140-200-14.
В	Repair of tires will be in accordance with TM 9-2610-200-14.

APPENDIX C TOOLS IDENTIFICATION LIST

Section I. INTRODUCTION

C-1. INTRODUCTION

This appendix lists common tools, supplements, and special tools/fixtures that are suggested for maintenance tasks performed at the Unit Maintenance level.

C-2. EXPLANATION OF COLUMNS

- a. Column (1) Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the item, e.g., "Bar, Pry (Item 1, Appendix C)."
 - b. Column (2) Item Name. This column contains the nomenclature for the item.
- c. Column (3) National Stock Number. This is the national stock number assigned to the item which you can use to requisition it.
- d. Column (4) Part Number. This provides the Government, manufacturer, or vendor part number for the item.
- **e. Column (5) Reference.** This column contains the shop catalog (SC), technical manual, or other publication which provides an illustration and description of the item, or lists whether the item is fabricated.

APPENDIX C
Section II. TOOLS IDENTIFICATION LIST

(1) ITEM	(2)	(3) NATIONAL	(4)	(5)
NUMBER	ITEM NAME	STOCK NUMBER	PART NUMBER	REFERENCE
1	ADAPTER, SOCKET WRENCH	5120-00-227-8088	A-A-2172	SC 4910-95-CL-A74
2	ADJUSTING TOOL, BRAKE SHOE	5120-00-154-3029	J34061	SC 4910-95-CL-A74
3	APRON, RUBBER	8145-00-082-6108	MIL-A-41829	SC 4910-95-CL-A74
4	CAPS, VISE JAW	5120-00-221-1506	GGG-C-137	SC 4910-95-CL-A74
5	DISPENSING PUMP, HAND DRIVEN	4930-00-263-9886	43D15069	SC 4910-95-CL-A74
6	DRILL SET, TWIST	5130-00-293-0983	58	SC 4910-95-CL-A74
7	DRILL, PORTABLE, ELECTRIC	5130-00-293-1849	W-D-661	SC 4910-95-CL-A74
8	DRILL, TWIST	5133-01-120-3519		SC 4910-95-CL-A74

Section II. TOOLS IDENTIFICATION LIST (CONT)

(1)	(2)	(3)	(4)	(5)
ITEM NUMBER	ITEM NAME	NATIONAL STOCK NUMBER	PART NUMBER	REFERENCE
9	FISHING TOOL, PNEUMATIC TIRE VALVE	5120-00-516-4220	991	SC 4910-95-CL-A74
10	GAGE, DEPTH, MICROMETER	5210-00-619-4045	445BZ-6RL	CTA 50-909
11	GAGE, TIRE PRESSURE	4910-01-117-2994	955	SC 4910-95-CL-A72
12	GAGE, WHEEL ALIGNMENT	5210-00-529-1205	WA361	SC 4910-95-CL-A72
13	GLOVES, RUBBER	8415-00-641-4601	ZZ-G-381	SC 4910-95-CL-A74
14	GLOVES, WELDER'S	8415-00-268-7859	A-A-50022	SC 4910-95-CL-A72
15	GOGGLES, INDUSTRIAL	4240-00-052-3776	A-A-1110	SC 4910-95-CL-A74
16	GUN, LUBRICATING	4930-00-253-2478	1142	SC 4910-95-CL-A74
17	HAMMER, HAND	5120-00-224-4130	A-A-1292	SC 4910-95-CL-A74
18	HAMMER, HAND	5120-01-065-9037	57-533	SC 4910-95-CL-A72
19	HOSE ASSEMBLY, NONMETALLIC	4720-00-356-8557	ZZ-H-461	SC 4910-95-CL-A74
20	IRON, TIRE	5120-00-765-8536	T48A	SC 4910-95-CL-A74
21	JACK, HYDRAULIC, HAND	5120-00-224-7330	D120	SC 4910-95-CL-A74
22	MULTIMETER, DIGITAL	6625-01-139-2512	T00377	SC 4910-95-CL-A74
23	MULTIPLIER, TORQUE WRENCH	5120-00-574-9318	292	SC 4910-95-CL-A72
24	PAN, DRAIN	4910-00-387-9592	450	SC 4910-95-CL-A72
25	PAN, WASH	4940-00-617-9859	5582281	SC 4910-95-CL-A72
26	PRESSURE TESTER, RADIATOR	4910-01-170-4929	J24460-01	SC 4910-95-CL-A74
27	PULLER KIT, MECHANICAL	5120-00-313-9496	1178	SC 4910-95-CL-A74
28	PULLER, BATTERY TERMINAL	5120-00-944-4268	21	SC 4910-95-CL-A74
29	RESPIRATOR, AIR FILTER	4240-00-022-2524	GGG-M-125/6	SC 4910-95-CL-A72
30	SCALE, WEIGHING	6670-00-254-4634	AAA-5-133	SC 4910-95-CL-A72
31	SLING, CARGO	1670-00-823-5043	63J4261-13	CTA 50-970
32	SLING, ENDLESS	3940-00-675-5003	PD101-96	CTA 50-970
33	SOCKET SET, IMPACT	5120-01-117-0466	4151MMY	SC 4910-95-CL-A74
34	SOCKET SET, SOCKET WRENCH	5120-01-073-2821	217FMY	SC 4910-95-CL-A72

Section II. TOOLS IDENTIFICATION LIST (CONT)

(1) ITEM	(2)	(3) NATIONAL	(4)	(5)
NUMBER	ITEM NAME	STOCK NUMBER	PART NUMBER	REFERENCE
35	SOCKET SET, SOCKET WRENCH	5120-01-117-3876	221FSMY	SC 4910-95-CL-A02
36	SOCKET, SOCKET WRENCH	5120-00-181-6813	5530	SC 4910-95-CL-A74
37	SOCKET, SOCKET WRENCH	5120-00-232-5681	1242	SC 4910-95-CL-A74
38	SOCKET, SOCKET WRENCH	5120-01-112-0581	SIMM190	SC 4910-95-CL-A74
39	STE/ICE-R	4910-01-222-6589	12259266	SC 4910-95-CL-A74
40	TAPE, MEASURING	5210-00-081-4719	GA508A	CTA 50-970
41	TESTER, ANTIFREEZE AND BATTERY	6630-00-105-1418	10425	SC 4910-95-CL-A74
42	TOOL KIT, AUTO FUEL	5780-00-754-0655		SC 5180-95-CL-A50
43	TOOL KIT, BLIND RIVET	5180-01-201-4978	D-100-MIL-1	SC 4910-95-CL-A72
44	TOOL KIT, GENERAL MECHANIC'S	5180-00-177-7033		SC 5180-90-N26
45	TRESTLE, MOTOR VEHICLE MAINTENANCE	4910-00-251-8013	306	SC 4910-95-CL-A72
46	VISE, MACHINIST	5120-00-293-1439	504M2	SC 4910-95-CL-A74
47	WRENCH SET, SOCKET	5120-00-081-2305	GGG-W-641	SC 4910-95-CL-A74
48	WRENCH SET, SOCKET	5120-00-204-1999	GGG-W-641	SC 4910-95-CL-A74
49	WRENCH SET, SOCKET	5120-00-322-6231	51200017510	SC 4910-95-CL-A74
50	WRENCH, ADJUSTABLE	5120-00-264-3793	2117080	SC 4910-95-CL-A72
51	WRENCH, ADJUSTABLE, AUTOMOTIVE	5120-00-449-8083	1B7536	SC 4910-95-CL-A74
52	WRENCH, BOX AND OPEN. END	5120-00-277-8833	1244	SC 4910-95-CL-A74
53	WRENCH, BOX AND OPEN END	5120-00-277-8834	GGG-W-636	SC 4910-95-CL-A74
54	WRENCH, PIPE	5120-00-277-1461		SC 4910-95-CL-A74
55	WRENCH, PIPE	5120-00-277-1485		SC 4910-95-CL-A74
56	WRENCH, STRAP, ADJUSTABLE	5120-00-020-2947	A91C	SC 4910-95-CL-A74
57	WRENCH, TORQUE, 0-175 lb-ft	5120-00-640-6364	1753LDF	SC 4910-95-CL-A72
58	WRENCH, TORQUE, 0-200 lb-in.	5120-00-853-4538	F2001	SC 4910-95-CL-A72

TM 9-2320-365-20-4

Section II. TOOLS IDENTIFICATION LIST (CONT)

(1) ITEM	(2)	(3) NATIONAL	(4)	(5)
NUMBER	ITEM NAME	STOCK NUMBER	PART NUMBER	REFERENCE
59	WRENCH, TORQUE, 0-600	5120-00-221-7983	SW130-301	SC 4910-95-CL-A72
	lb-ft			

APPENDIX D EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

D-1. SCOPE

This appendix lists expendable and durable items that you will need to operate and maintain the LMTV vehicle. This listing is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (except medical, class V repair parts, and heraldic items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

D-2. EXPLANATION OF COLUMNS

- **a. Column (1) Item Number.** This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the item, e.g., "Oil, Lubricating (Item 25, Appendix D).
- b. Column (2) Level. This column identifies the lowest level of maintenance that requires the item.
- c. Column (3) National Stock Number. This is the national stock number assigned to the item which you can use to requisition it.
- d. Column (4) Item Name, Description, Commercial and Government Entity Code (CAGEC), and Part Number. This provides the other information you need to identify the item.
- e. Column (5) Unit of Measure. This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

(1) Item	(2)	(3) National Stock	(4)	(5)
Number	Level	Number	Description	U/M
1	0	4730-00-248-9340	Adapter, Pipe to Tube (81343) 4-4 010103B	ea
2	0	8040-00-273-8717	Adhesive (81348) MMM-A-121	pt
3	0	8040-00-152-0063	Adhesive (81348) MMM-A-1617 TY 3	bt
4	0	8040-01-250-3969	Adhesive (05972) 242	ea
5	0	8040-01-117-7872	Adhesive (04963) 08031	tu
6	0	8040-00-117-8510	Adhesive (71984) 3145 RTV Clear	tu
7	0	8040-00-776-9602	Adhesive (73168) 80055-31	kt
8	0	8040-00-118-2695	Adhesive (72799) RTV162	kt
9	0	8040-01-239-6828	Adhesive (01139) RTV123	tu
10	0	8040-01-331-7473	Adhesive (81349) (MIL-A-46106 GP3TY1)	tu
11	0	8040-01-331-7470	Adhesive (81349) (MIL-A-46106 GP1TY1)	tu

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST (CONT)

(1)	(2)	(3)	(4)	(5)
Item Number	Level	National Stock Number	Description	U/M
12	C	6850-00-174-1806	Antifreeze, Arctic Type (81349) (MIL-A-11755)	dr
			55 gl drum	
13	С	6850-00-181-7940	Antifreeze,Ethylene Glycol,Permanent (81349) (MIL-A-46153) 55 gl drum	dr
14	0	8030-00-597-5367	Antiseize Compound (81349) (MIL-A-907)	lb
15	0	5340-00-450-5718	Cap and Plug Set 10935405	ea
16	0	6850-00-926-2275	Cleaning Compound, Windshield (81349) O-C 190 16 0z bottle	bt
17	0	7920-00-044-9281	Cloth,Cleaning (81349) (MIL-C-85043)	bx
18	0			
		8030-00-062-6950	Corrosion Preventive Compound (81349) (MIL-C-16173) Grade 1-1 qt can	qt
		9030-01-149-1731	Grade 2-1 qt can	qt
		8030-00-837-6557	Grade 3-1 qt can	pt
		8030-00-903-0931	Grade 4-1 qt can	pt
19	0	8030-00-033-4291	Corrosion Preventive Compound (MIL-C-82594) 8 oz can	bt
20	С	9150-00-664-0047	Damping Fluid (81348) VV-D-1078 1 lb can	lb
21	0	7520-01-209-1152	Dispenser,Pressure Sensitive Adhesive Tape (75037) STD-0-9	ea
22	0	5330-01-325-6993	Gasket Forming Compound (05972) 515	ea
23	С		Grease, Automotive and Artillery (GAA) (81349) (MIL-G-10924)	
		9150-01-197-7688	2-1/4 oz tube	tu
		9150-01-197-7690	1.75 lb can	cn
		9150-01-197-7689 9150-01-197-7692	6.5 lb can 35 lb can	cn
24		9150-00-530-6814	Grease, Wire Rope-Exposed Gear 981349)	cn
2.		0100 00 000 0011	(MIL-G-18458) 35 lb can	on
25		9150-00-935-4018	Grease,Molybenum Disulfide (81349) (MIL-G-21164) 14 oz cartridge	ca
26	С		Hydraulic Fluid A (MIL-H-5606)	
		9150-00-252-6383	1 qt can	cn
		9150-00-223-4134	1 gl can	cn
27	0	7510-00-145-0559	Ink,Marking Stencil (MIL-I-43553)	OZ
28	0	7510-01-386-0787	Inking Pad,Rubber Stamp	ea

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS (CONT)

(1)	(2)	(3)	(4)	(5)
Item Number	Level	National Stock Number	Description	U/M
29	0	9150-01-360-1905	Insulating Compound, Electrical	tu
30	0	5970-00-838-5951	Insulation Sleeving, Electrical (06090) CRN3-16BLACK	ft
31	0	5970-01-422-3579	Insulation Sleeving, Electrical (06090) ATUM 1/2 4 ft length	lg
32	0	1650-00-166-4834	Lockwire (90166) 68A32	ea
33	0	9150-01-360-1905	Lubricant, Solid Film (MIL-L46147) 16 oz can	cn
34	0	4730-00-019-0608	Nipple, Pipe	ea
35	0	4730-00-825-7304	Nipple, Tube Ms51501B4	ea
36	0	5310-00-059-4265	Nut, Plain, Hex	ea
37	С	9140-00-286-5283 9140-00-286-5284 9140-00-286-5285	Oil, Fuel Diesel, DF-A, Arctic (VV-F-800) (81348) Bulk 55 gl drum, 16 gauge 55 gl drum, 18 gauge	gl dr dr
38	С	9140-00-286-5286 9140-00-286-5288 9140-00-286-5289	Oil,Fuel Diesel, DF-1, Winter (VV-F-800) (81348) Bulk 55 gl drum, 16 gauge 55 gl drum, 18 gauge	gl dr dr
39	С	9140-00-286-5294 9140-00-286-5296 9140-00-286-5297	Oil, Fuel Diesel, DF-2,Regular (VV-F-800) (81348) Bulk 55 gl drum, 16 gauge 55 gl drum, 18 gauge	gl dr dr
40	С	9150-00-402-2372 9150-00-491-7197	Oil, Lubricating, Arctic (MIL-L-46167) 5 gl can 55 gl drum	cn dr
41	С	9150-00-035-5390 9150-00-035-5391	Oil, Lubricating, Gear, GO 75W (MIL-L-2105C) 1 qt can 5 gl can	cn cn
42	С	9150-01-035-5392 9150-01-035-5393 9150-01-035-5394	Oil, Lubricating, Gewar, 80W-90 (MIL-L-2105C) 1 qt can 5 gl can 55 gl drum, 16 gauge	qt cn dr
43	С	9150-00-183-7807 9150-00-186-6668 9150-00-191-2772	Oil, Lubricating, OE/HDO 10 (MIL-L-2104) Bulk 5 gl can 55 gl drum	gl cn dr
44	С	9150-00-189-6727	Oil, Lubricating, OE/HDO 10W (MIL-L-2104) 1 qt can	cn

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS (CONT)

(1)	(2)	(3)	(4)	(5)
Item Number	Level	National Stock Number	Description	U/M
45	С		Oil, Lubricating, OE/HDO 15W-40 (MIL-L-2104)	
		9150-01-152-4117	1 qt can	cn
		9150-01-152-4118 9150-01-152-4119		cn dr
46	С	9130-01-132-4119	Oil, Lubricating, OE/HDO 30 (SAE 30) (MIL-L-2104)	ui
40		9150-00-183-7808	, , , , , ,	gl
		9150-00-186-6681	1 qt can	cn
		9150-00-188-9858		cn
47		9150-00-189-6729	55 gl drum, 18 gauge	dr
47	С	9150-00-405-2987	Oil, Lubricating, OE/HDO 40 (MIL-L-2104) Bulk	gl
		9150-00-189-6730		cn
		9150-00-188-9862	55 gl can	cn
48	0	5350-00-067-7639	Paper, Abrasive (28124) 02347 pg contains 100 sheets	pg
49	0	8010-01-146-2650	Polyurethane Coating (MIL-C-46168)	kt
50	0	8030-00-181-8372	Primer, Sealing Compound (05972) 747-56	cn
51	С	7920-00-205-1711	Rag, Wiping A-A-531	be
52	0	4730-00-021-1788	Reducer, Boss 4-6F50G5	ea
53	0	4020-00-855-2767	Rope, Fibrous (MIL-R-17343) 75 ft	cl
54	0	7520-00-634-2442	Rubber Stamp Set, Fixed Type	ea
55	0	5330-01-337-1108	Rubber Strip (12624) V4062	ft
56	0	5330-01-181-6482	Rubber Strip (19207) 12328583-3	ft
57	0	5305-01-296-0019	Screw,Cap,Socket Head (06888) SHCM75275 50 ct box	bx
58	0	1015-01-255-4144	Sealant, Pipe, Teflon (19207) 12297953 50 ml tube	tu
59	0	8030-00-081-2327	Sealing Compound (05972) 079-21	bx
60	0	8030-00-111-2762	Sealing Compound (05972) 290-31	bt
61	0	8030-00-133-3164	Sealing Compound (05972) 571-31	bt
62	0	8030-00-148-9833	Sealing Compound (05972) 271-21	bx
63	0	8030-00-204-9149	Sealing Compound (05972) 592-41	tu
64	0		Sealing Compound (81349) (MIL-S-45180)	pt
65	0		Sealing Compound (05972) 242-41	bt
66	0		Sealing Compound (52571) 9001512-0011	bt

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS (CONT)

(1)	(2)	(3)	(4)	(5)
Item		National		
Number	Level	Stock Number	Description	U/M
67	0		Sealing Compound (81349) (MIL-S-8802TY2CLB-2)	
		8030-00-753-5006	2 oz cartridge	ca
		8030-00-753-4599	6 oz can	kt
		8030-00-723-2746	12 oz can	kt
		8030-00-685-0915	24 oz can	kt
68	0	8030-01-155-3238	Sealing Compound (11083) 6V6640	ml
69	С	7930-00-634-3935	Soap, Laundry (81348) P-S-1792	lb
70	0	3439-00-006-7764	Solder, Tin Alloy (81348) SN63WRAP3	sl
71	С		Solvent, Dry Cleaning SD (P-D-680)	
		6850-00-281-1985	1 gl can	cn
		6850-00-664-5685	1 qt can	cn
72	0		Tape, Adhesive (0SHR6) 70P00002	ea
73	0	8030-00-889-3534	Tape, Antiseizing (81349) MIL-T-27730)	ea
74	0	5640-00-103-2254	Tape, Duct (39428) 1791K70	ea
75	0	5970-00-644-3167	Tape, Insulation, Electrical (80063) TL83	ro
76	0	5975-01-379-4997	Ties, Cable, Plastic (06383) PLT 35-C-O	hd
77	0	6145-01-148-2263	Wire, Electrical (80009) 175-0825-00	ft
			50 ft	

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APPENDIX E ILLUSTRATED LIST OF MANUFACTURED ITEMS

Section I. INTRODUCTION

E-1. INTRODUCTION

This appendix includes complete instructions for manufacturing or fabricating authorized items locally. All bulk materials needed to manufacture an item are listed by part number or specification number. Figures are provided as needed. See standards and specifications DoD-Std-00100D(AR) and ANSI Y14.5M1982 for required details.

Section II. MANUFACTURED ITEMS INDEX

ITEM NAME/PART NUMBER	ITEM DESCRIPTION	PARA NO.
Brake Adjusting Tool Support		E-2
Brake Plunger Seal Driver		E-3
Cab Support Tool		E-4
Headlight Adjustment Screen		E-5
M1079 Blackout Shield Seals		E-6
M1079 Door Gaskets		E-7
M1079 Window Sash Glazing Seals		E-8
Relay Test Wire		E-9
Wheel Bearing Shim Tool Rest		E-10
12414690-001	Pneumatic Tube	E-11
12414690-002	Pneumatic Tube	E-11
12414690-004	Pneumatic Tube	E-11
12414690-005	Pneumatic Tube	E-11
12414690-010	Pneumatic Tube	E-11
12414690-101	Pneumatic Tube	E-11
12414690-102	Pneumatic Tube	E-11
12414690-103	Pneumatic Tube	E-11
12414690-104	Pneumatic Tube	E-11
12414690-105	Pneumatic Tube	E-11
12414690-106	Pneumatic Tube	E-11
12414690-107	Pneumatic Tube	E-11
12414690-108	Pneumatic Tube	E-11
12414690-109	Pneumatic Tube	E-11
12414690-112	Pneumatic Tube	E-11
12414690-113	Pneumatic Tube	E-11
12414690-115	Pneumatic Tube	E-11
12414690-117	Pneumatic Tube	E-11
12414690-118	Pneumatic Tube	E-11
12414690-119	Pneumatic Tube	E-11
12414690-120	Pneumatic Tube	E-11
12414690-121	Pneumatic Tube	E-11
12414690-122	Pneumatic Tube	E-11
12414690-123	Pneumatic Tube	E-11
12414690-124	Pneumatic Tube	E-11 E-11
12414690-125	Pneumatic Tube	
12414690-126 12414690-127	Pneumatic Tube Pneumatic Tube	E-11 E-11
12414690-127	Pneumatic Tube Pneumatic Tube	E-11
12414690-202	Pneumatic Tube	E-11

Section II. MANUFACTURED ITEMS INDEX (CONT)

ITEM NAME/PART NUMBER	ITEM DESCRIPTION	PARA NO.
12414690-203	Pneumatic Tube	E-11
12414690-205	Pneumatic Tube	E-11
12414690-206	Pneumatic Tube	E-11
12414690-207	Pneumatic Tube	E-11
12414690-208	Pneumatic Tube	E-11
12414690-209	Pneumatic Tube	E-11
12414690-210	Pneumatic Tube	E-11
12414690-211	Pneumatic Tube	E-11
12414690-212	Pneumatic Tube	E-11
12414690-213	Pneumatic Tube	E-11
12414690-214	Pneumatic Tube	E-11
12414690-215	Pneumatic Tube	E-11
12414690-216	Pneumatic Tube	E-11
12414690-217	Pneumatic Tube	E-11
12414690-218	Pneumatic Tube	E-11
12414690-219	Pneumatic Tube	E-11
12414690-220	Pneumatic Tube	E-11
12414690-221	Pneumatic Tube	E-11
12414690-222	Pneumatic Tube	E-11
12414690-223	Pneumatic Tube	E-11
12414690-224	Pneumatic Tube	E-11
12414690-225	Pneumatic Tube	E-11
12414690-226	Pneumatic Tube	E-11
12414690-227	Pneumatic Tube	E-11
12414690-228	Pneumatic Tube	E-11
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12414690-231	Pneumatic Tube	E-11
12414690-301	Pneumatic Tube	E-11
12414690-302	Pneumatic Tube	E-11
12414690-303	Pneumatic Tube	E-11
12416381P1	Non-Metallic Electrical Cable Conduit	E-12
12416381P10	Non-Metallic Electrical Cable Conduit	E-12
12416381P11 12416381P12	Non-Metallic Electrical Cable Conduit	E-12 E-12
	Non-Metallic Electrical Cable Conduit Non-Metallic Electrical Cable Conduit	E-12 E-12
12416381P13 12416381P14	Non-Metallic Electrical Cable Conduit	E-12 E-12
12416381P15	Non-Metallic Electrical Cable Conduit	E-12
12416381P16	Non-Metallic Electrical Cable Conduit	E-12
12416381P17	Non-Metallic Electrical Cable Conduit	E-12
12416381P2	Non-Metallic Electrical Cable Conduit	E-12
12416381P20	Non-Metallic Electrical Cable Conduit	E-12
12416381P21	Non-Metallic Electrical Cable Conduit	E-12
12416381P22	Non-Metallic Electrical Cable Conduit	E-12
12416381P23	Non-Metallic Electrical Cable Conduit	E-12
12476381P26	Non-Metallic Electrical Cable Conduit	E-12
12416381P3	Non-Metallic Electrical Cable Conduit	E-12
12416381P30	Non-Metallic Electrical Cable Conduit	E-12
12416381P32	Non-Metallic Electrical Cable Conduit	E-12
12416381P34	Non-Metallic Electrical Cable Conduit	E-12
12416381P35	Non-Metallic Electrical Cable Conduit	E-12

ITEM NAME/PART NUMBER	ITEM DESCRIPTION	PARA NO.
12416381P36	Non-Metallic Electrical Cable Conduit	E-12
12416381P37	Non-Metallic Electrical Cable Conduit	E-12
12416381P38	Non-Metallic Electrical Cable Conduit	E-12
12416381P4	Non-Metallic Electrical Cable Conduit	E-12
12416381P5	Non-Metallic Electrical Cable Conduit	E-12
12416381P6	Non-Metallic Electrical Cable Conduit	E-12
12416381P7	Non-Metallic Electrical Cable Conduit	E-12
12416381P8	Non-Metallic Electrical Cable Conduit	E-12
12416381P9	Non-Metallic Electrical Cable Conduit	E-12
12418037	Steering Gear Return Hose	E-13
12418460-001	Transmission Oil Cooler Hose	E-13
12418460-002	Transmission Oil Cooler Hose	E-13
12418763	Lanyard Assembly	E-14
12420196	Lanyard Assembly	E-14
12420197-001	Non-Metallic Vent Air Hose	E-15
12420197-002	Non-Metallic Vent Air Hose	E-15
12420197-003	Non-Metallic Vent Air Hose	E-15
12420197-004	Non-Metallic Vent Air Hose	E-15
12420197-005	Non-Metallic Vent Air Hose	E-15
12420197-006	Non-Metallic Vent Air Hose	E-15
12420198-002	Non-Metallic Vent Air Hose	E-1564
12420308-457	Personnel Heater Air Duct Hose	E-16
12420308-760	Personnel Heater Air Duct Hose	E-16
12420489	Block Seal	E-17
3256-H-1048	CTIS Seal Driver	E-18
3256-K-1051	Wheel Hub Grease Seal Driver	E-19

Section III. MANUFACTURED ITEMS

E-2. BRAKE ADJUSTING TOOL SUPPORT

Make the brake adjusting tool support from 0.134 in. (3.4 mm) flat steel stock according to the following instructions. Refer to the parts list and **Figure E-1. Brake Adjusting Tool Support** for details.

Item	Part Number	Material Description	Size	Qty
1	N/A	Steel, ASTM A569 Sheet, Hot Rolled	6.0 in. (152.4 mm) x 6.0 in. (152.4 mm) x 0.134 in. (3.4 cm)	2

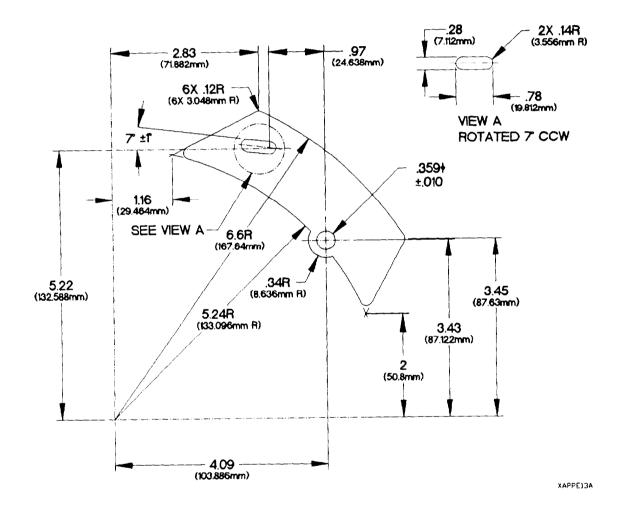


Figure E-1. Brake Adjusting Tool Support

- a. All dimensions are in inches (millimeters).
- b. Cut steel sheet as shown by dimensions on Figure E-1. Brake Adjusting Tool Support.
- c. De-burr and remove sharp edges.

E-3. BRAKE PLUNGER SEAL DRIVER

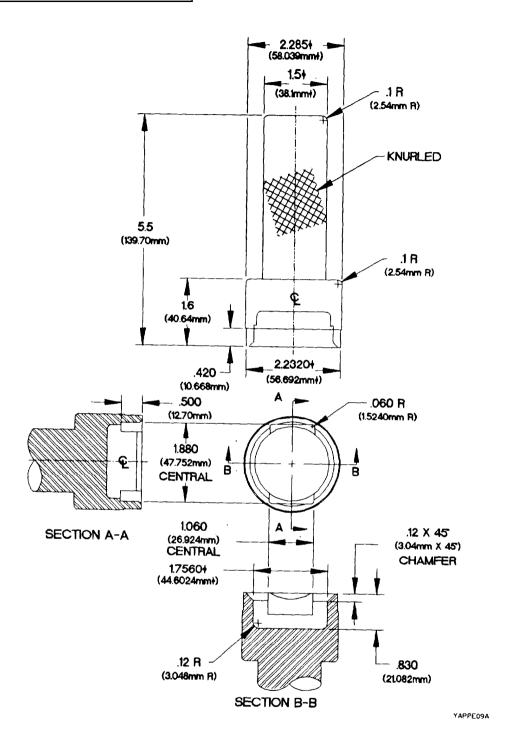


Figure E-2. Brake Plunger Seal Driver

- a. All dimensions are in inches (millimeters).
- b. Manufacture from round steel stock.
- c. De-burr and remove sharp edges.

E-4. CAB SUPPORT TOOL

Make the cab support tool from .38 inch (.96 cm) flat steel stock and angle iron stock according to the following instructions. Refer to the parts list and **Figure E-3. Cab Support Tool Strut and Cab Rest** for details.

Item	Part Number	Material Description	Size	Qty
1	N/A	Steel, Flat Bar	4.0 in. (10.2 cm) X 33.38 in. X (84.8 cm) X 0.38 in. (0.96 cm)	1
2	N/A	Steel, Flat Bar	4.0 in. (10.2 cm) X 12.0 in. (30.5 cm) X 0.38 in. (0.96 cm)	1
3	N/A	Angle Iron	2.0 in. (5.1 cm) X 2.0 in. (5.1 cm) X 3.5 in. (8.9 cm)	2
4	H.S.105VW-1	Insulgrip, CSA 105 C		

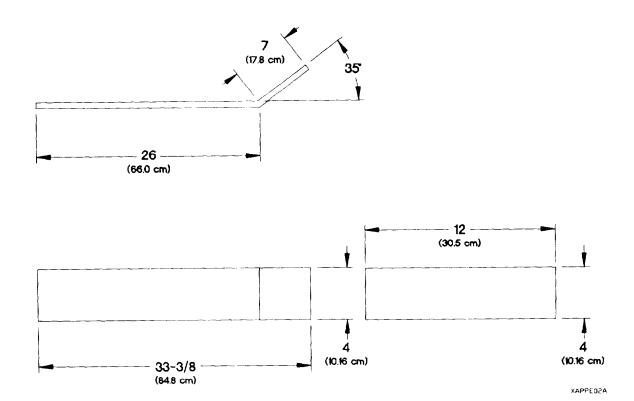


Figure E-3. Cab Support Tool Strut and Cab Rest

- a. All dimensions are in inches (centimeters).
- b. Cut cab support tool strut (1) from steel flat bar and bend to shape as shown in Figure E-3. Cab Support Tool Strut and Cab Rest.
- c. Cut cab support tool cab rest (2) from steel flat bar.
- d. De-burr and remove sharp edges.

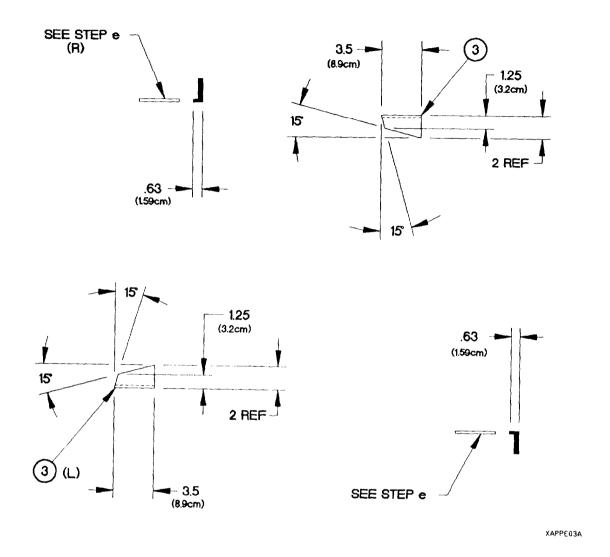


Figure E-4. Cab Support Tool Seat

- e. Remove flange side of cab support tool seats (3) as shown in Figure E-4. Cab Support Tool Seat.
- f. Cut cab support tool seats (3) L and (3) R according to dimensions and left\right orientation shown on **Figure E-4. Cab Support Tool Seat.**
- g. De-burr and remove sharp edges.

E-4. CAB SUPPORT TOOL (CONT)

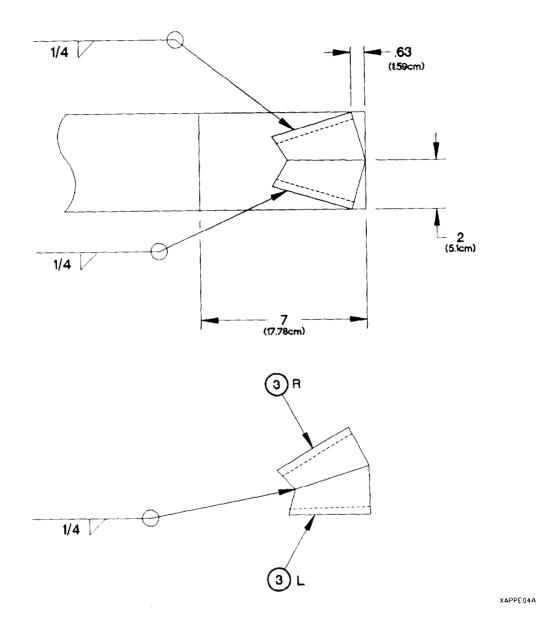


Figure E-5. Cab Support Tool Seat Layout

- h. Position and clamp cab support tool seats (3) L and (3) R together as shown by dimensions on **Figure E-5**. **Cab Support Tool Seat Layout**.
- i. Weld cab support tool seat (3) L to cab support tool seat (3) R as identified on assembly table and **Figure E-5. Cab Support Tool Seat Layout.**
- j. Position and clamp cab support tool seats (3) L and (3) R to cab support tool strut (1) as shown by dimensions on Figure E-5. Cab Support Tool Seat Layout.
- k. Weld items clamped in step (f) as shown in Figure E-5. Cab Support Tool Seat Layout.
- I. De-burr and remove sharp edges.

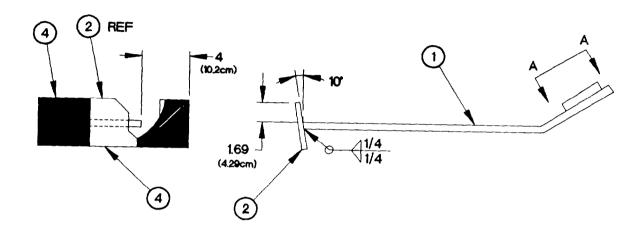


Figure E-6. Cab Support Tool Assembly

- m. Position and clamp cab support tool strut (1) to cab support tool cab rest (2) as shown by dimensions on Figure E-6. Cab Support Tool Assembly, before insulgrip (4) is applied.
- n. Weld cab support tool strut (1) to cab support tool cab rest (2).
- o. Apply Insulgrip (4) to cab support tool cab rest (2) as described on material container.

E-5. HEADLIGHT ADJUSTMENT SCREEN

The headlight adjustment screen may be drawn on any vertical surface at least 50 in. (127 cm) high and 100 in. (254 cm) wide.

- a. Draw two vertical lines (1) 50 in. (127 cm) high and 90.6 in. (230 cm) apart (centered on headlight adjustment screen).
- b. Locate two points 40 in. (101.6 cm) from floor and 13 in. (33 cm) toward the center from each vertical line (1).
- c. Draw vertical line (2) about 3-5 in. (8-13 cm) centered on each of the two points.
- d. Draw horizontal line (3) about 3-5 in. (8-13 cm) centered on each of the two points.
- e. Measure out 4 in. (10 cm) along each vertical line (2) and horizontal line (3) from each of the two points to make 8 in. (20 cm) squares (4).

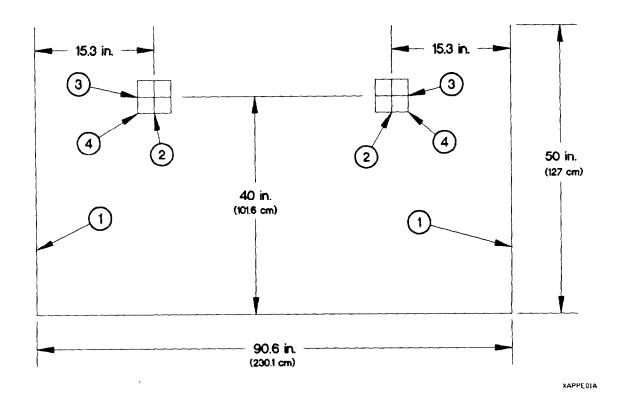


Figure E-7. Headlight Adjustment Screen

E-6. M1079 BLACKOUT SHIELD SEALS

Fabricate the M1079 blackout shield seals according to the following steps. Refer to the following parts list for materials.

Description	Material Part Number	CAGE Code	Cut Length
Blackout Shield Header Seal	942P00001	0SHR6	28-3/4 in. (730 mm)
Blackout Shield Jamb Seal (van body serial numbers 001 through 190)	942P00001	0SHR6	63-3/8 in. (1610 mm)
Blackout Shield Jamb Seal (van body serial number 191 and higher)	942P00001	0SHR6	33 in. (838 mm)

- a. Dimensions are in inches (millimeters).
- b. Cut seal material to the specified length using a fine-toothed hacksaw or other suitable cutting tool.

E-7. M1079 DOOR GASKETS

Fabricate the M1079 door gaskets according to the following steps. Refer to the following parts list for materials.

Description	Material Part Number	CAGE Code	Cut Length
LH Door Gasket	12416417	19207	214 in. (5435 mm)
RH Door Gasket	12416417	19207	197 in. (5004 mm)

- a. Dimensions are in inches (millimeters).
- b. Cut seal material to the specified length using a fine-toothed hacksaw or other suitable cutting tool.
- c. Glue ends of gasket to each other using adhesive MIL-A-46106 GP1TY1 (Item 11, Appendix D).

E-8. M1079 WINDOW SASH GLAZING SEALS

Fabricate the M1079 window sash glazing seals according to the following steps. Refer to the following parts list for materials.

Description	Material Part Number	CAGE Code	Cut Length
Window Sash Top/Bottom Seal	941P00001	0SHR6	26-13/16 in. (681 mm)
Window Sash Side Seal (van body serial numbers 001 through 190)	941P00001	0SHR6	28-1/2 in. (724 mm)
Window Sash Side Seal (van body serial number 191 and higher)	941P00001	0SHR6	12-11/16 in. (322 mm)

- a. Dimensions are in inches (millimeters).
- b. Cut seal material to the specified length using a fine-toothed hacksaw or other suitable cutting tool.

NOTE

Cut miters so that short side of seal faces toward glass.

c. Cut 45-degree miters on ends of window sash seals.

E-9. RELAY TEST WIRE

Fabricate the relay test wire according to the following steps. Refer to the following parts list for materials.

Material Description	National Stock Number	Cut Length
Wire, Electrical (MIL-W-16878)	6145-00-330-3318	6 in. (152 mm)

- a. Dimensions are in inches (millimeters).
- b. Cut a length of wire six inches (152 mm) long.
- c. Remove approximately 3/4 in. (19 mm) of electrical insulation from each end of wire.

E-10. WHEEL BEARING SHIM TOOL REST

Fabricate the wheel bearing shim tool rest according to the following steps. Refer to the following parts list for materials.

Part Number	National Stock Number	Description
QQ-T-570	9510-00-866-1037	Bar, Metal

- a. Dimensions are in inches (millimeters).
- b. Cut metal bar to 9.0 inches (228.6 mm) long.
- c. De-burr and remove sharp edges from ends of metal bar.

E-11. PNEUMATIC TUBES FABRICATION

Cut pneumatic tubes from bulk tubing stock listed **Table E-1. Pneumatic Tube Lengths.** Use a fine-toothed hacksaw or suitable cutting device and cut tubing to required length.

Table E-1. Pneumatic Tube Lengths

	Bulk Tubing	Cut L	ength
Tube Part Number	Part Number	inches	c m
12414690-001	NT-100-4 (79470)	18.1	46.0
12414690-002	NT-100-4 (79470)	16.0	40.6
12414690-004	NT-100-4 (79470)	74.8	190.0
12414690-005	NT-100-4 (79470)	69.7	177.0
12414690-010	NT-100-4 (79470)	180.0	457.2
12414690-101	J844TYBSIZE 3/8 (81343)	18.0	45.7
12414690-102	J844TYBSIZE 3/8 (81343)	35.4	90.0
12414690-103	J844TYBSIZE 3/8 (81343)	20.9	53.0
12414690-104	J844TYBSIZE 3/8 (81343)	13.8	35.0
12414690-105	J844TYBSIZE 3/8 (81343)	11.8	30.0
12414690-106	J844TYBSIZE 3/8 (81343)	20.5	52.0
12414690-107	J844TYBSIZE 3/8 (81343)	39.0	99.0
12414690-108	J844TYBSIZE 3/8 (81343)	15.4	39.0
12414690-109	J844TYBSIZE 3/8 (81343)	23.0	58.4
12414690-112	J844TYBSIZE 3/8 (81343)	80.0	198.0
12414690-113	J844TYBSIZE 3/8 (81343)	11.4	29.0
12414690-115	J844TYBSIZE 3/8 (81343)	82.8	210.2
12414690-117	J844TYBSIZE 3/8 (81343)	156.5	397.5
12414690-118	J844TYBSIZE 3/8 (81343)	11.8	30.0
12414690-119	J844TYBSIZE 3/8 (81343)	269.5	684.5
12414690-120	J844TYBSIZE 3/8 (81343)	11.9	30.2
12414690-121	J844TYBSIZE 3/8 (81343)	43.0	109.2
12414690-122	J844TYBSIZE 3/8 (81343)	44.1	112.0
12414690-123	J844TYBSIZE 3/8 (81343)	259.4	659.0
12414690-124	J844TYBSIZE 3/8 (81343)	288.2	732.0
12414690-125	J844TYBSIZE 3/8 (81343)	10.8	27.3
12414690-126	J844TYBSIZE 3/8 (81343)	17.0	43.2
12414690-127	J844TYBSIZE 3/8 (81343)	17.0	43.2

E-11. PNEUMATIC TUBES FABRICATION (CONT)

Table E-1. Pneumatic Tube Lengths (Cont)

	Bulk Tubing	Cut L	ength
Tube Part Number	Part Number	inches	cm
12414690-201	C608-100BLK (13174)	14.8	37.5
12414690-202	C608-100BLK (13174)	14.0	35.7
12414690-203	C608-100BLK (13174)	6.5	16.5
12414690-205	C608-100BLK (13174)	14.5	36.8
12414690-206	C608-100BLK (13174)	14.9	37.7
12414690-207	C608-100BLK (13174)	15.5	39.5
12414690-208	C608-100BLK (13174)	6.7	17.0
12414690-209	C608-100BLK (13174)	19.5	49.5
12414690-210	C608-100BLK (13174)	15.5	39.3
12414690-211	C608-100BLK (13174)	8.0	20.3
12414690-212	C608-100BLK (13174)	16.9	43.0
12414690-213	C608-100BLK (13174)	118.5	301.0
12414690-214	C608-100BLK (13174)	124.0	315.0
12414690-215	C608-100BLK (13174)	163.0	414.0
12414690-216	C608-100BLK (13174)	160.0	406.4
12414690-217	C608-100BLK (13174)	62.6	159.0
12414690-218	C608-100BLK (13174)	119.8	304.2
12414690-219	C608-100BLK (13174)	69.0	175.3
12414690-220	C608-100BLK (13174)	45.5	115.6
12414690-221	C608-100BLK (13174)	12.6	32.0
12414690-222	C608-100BLK (13174)	5.5	14.0
12414690-223	C608-100BLK (13174)	14.6	37.1
12414690-224	C608-100BLK (13174)	170.0	431.8
12414690-225	C608-100BLK (13174)	174.0	442.0
12414690-226	C608-100BLK (13174)	103.5	263.0
12414690-227	C608-100BLK (13174)	32.8	83.2
12414690-228	C608-100BLK (13174)	3.5	8.9
12414690-229	C608-100BLK (13174)	62.2	158.1
12414690-230	C608-100BLK (13174)	14.6	37.0
12414690-231	C608-100BLK (13174)	60.5	153.7
12414690-301	PFT-10B-BLK-100 (61424)	19.0	48.3
12414690-302	PFT-10B-BLK-100 (61424)	56.0	142.2
12414690-303	PFT-10B-BLK-100 (61424)	118.1	300.0

E-12. NON-METALLIC ELECTRICAL CABLE CONDUIT FABRICATION

Make conduit to cover electrical cables described on 1241638 from bulk tube stock listed in **Table E-2. Non-Metallic Electrical Cable Conduit Lengths.** Use a fine-toothed hacksaw or suitable cutting device and cut hose/tube to required length.

Table E-2. Non-Metallic Electrical Cable Conduit Lengths

· · ·		Cut Length	
Tube Part Number	Bulk Tube Part Number	inch	c m
12416381P1	49008	8.9	22.6
12416381P10	49008	17.8	45.2
12416381P11	49008	29.9	75.9
12416381P12	49008	33.0	83.8
12416381P13	49008	13.9	35.3
12416381P14	49008	4.0	10.2
12416381P15	49008	17.4	44.2
12416381P16	49008	3.2	8.1
12416381P17	49008	4.5	11.4
12416381P2	49008	16.2	41.1
12416381P20	27413	32.8	83.3
12416381P21	27413	9.2	23.4
12416381P22	27413	8.0	20.3
12416381P23	27413	23.3	59.2
12416381P26	49008	2.5	6.4
12416381P3	27413	7.3	18.5
12416381P30	49007	17.0	43.2
12416381P32	49005	1.7	4.3
12416381P34	49005	20.7	52.6
12416381P35	49005	21.8	55.4
12416381P36	49005	5.5	14.0
12416381P37	49005	8.0	20.3
12416381P38	49008	3.7	9.4
12416381P4	49008	12.0	30.5
12416381P5	49008	26.0	66.0
12416381P6	49008	7.7	19.6
12416381P7	49008	26.7	67.8
12416381P8	49008	5.2	13.2
12416381P9	49008	16.8	42.7

E-13. STEERING GEAR RETURN HOSE AND TRANSMISSION OIL COOLER HOSES FABRICATION

Cut the following hoses from bulk hose using a fine-toothed hacksaw or suitable cutting device.

		Cut L	ength
Hose Part Number	Bulk Hose Part Number	inches	c m
12418037	A110 (30327)	75.5	191.7
12418460-001	MS521302B110360 (96906)	17.5	44.4
12418460-002	MS521301A206R (96906)	16.0	40.6

E-14. LANYARD ASSEMBLIES P/N 12418763 AND 12420196 FABRICATION

Make the following lanyard assemblies from bulk cable material, sleeves, and tab material and assemble according to **Figure E-8. Lanyard Assembly.** The following parts list identifies part numbers and lengths of cut pieces.

Item	Part Number	Material Description	Size	Qty
1	MIL-W-83420 Type 1, Comp B	1/16 in. stranded wire cable	4 in. (102 mm)	1
2	MS51844-22	Sleeve		2
3	N/A	Tab, Stainless Steel ASTM A617	.06 in. (16 cm) X .37 in. (9.5 mm) X 1.25 in. (32 mm)	1

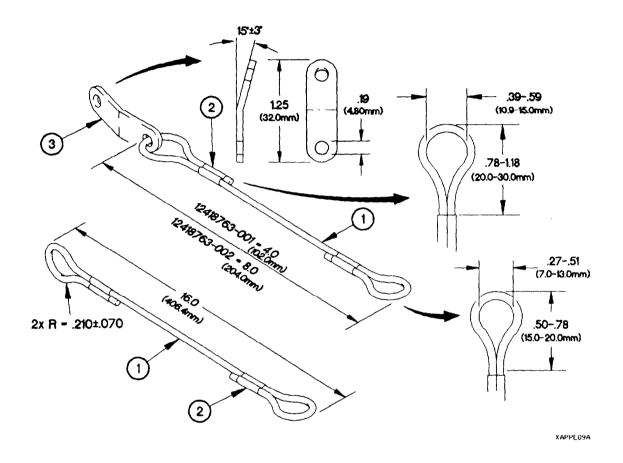


Figure E-8. Lanyard Assembly

- a. All dimensions are in inches (millimeters).
- b. Make from bulk cable and flat steel material as identified in parts list.
- c. Drill two 0.19 in. (4.8 mm) diameter holes through tab material as shown on Figure E-14. Lanyard Assembly.
- d. De-burr and remove sharp edges.
- e. Bend tab as shown on Figure E-14. Lanyard Assembly.
- f. Form loops on cable ends and insert sleeve material over cable on one end of cable and over cable and through sleeve at other end of cable as shown in **Figure E-14. Lanyard Assembly.**
- g. Crimp two sleeves over cable ends.

E-15. NON-METALLIC VENT AIR HOSES FABRICATION

Cut the following vent air hoses from bulk hose using a fine-toothed hacksaw or suitable cutting device.

		Cut Length	
Hose Part Number	Bulk Hose Part Number	inches	cm
12420197-001	483666 (02280)	180.0	457.2
12420197-002	483666 (02280)	120.0	304.8
12420197-003	483666 (02280)	96.0	243.8
12420197-004	483666 (02280)	36.0	91.4
12420197-005	483666 (02280)	156.0	396.2
12420197-006	483666 (02280)	72.0	182.9
12420198-001	881-16 (98441)	120.0	304.8
12420198-002	11657469	36.0	91.4

E-16. PERSONNEL HEATER AIR DUCT HOSE FABRICATION

Cut the following hoses from bulk hose using a fine-toothed hacksaw or suitable cutting device.

		Cut Length	
Hose Part Number	Bulk Hose Part Number	inches	cm
12420308-457	8711054 (19207)	18.3	46.4
12420308-760	8711054 (19207)	30.4	77.2

E-17. BLOCK SEAL 12420489 FABRICATION

Make block seal from P/N (0VXY8) STN2.38X.5. Use a suitable cutting tool to cut seal to 0.52 inch (1.3 cm) long.

E-18. CTIS SEAL DRIVER 3256-H-1048

Used on Front and Rear Axle CTIS Seals.

NOTES ON USE OF DRIVER

- 1) SEAL END OF DRIVER TO BE CLEAN OF DEBRIS, DIRT, NICKS AND BURRS 2) DO NOT USE A METAL HAMMER ON DRIVER A RUBBER, PLASTIC, WOOD OR SOME OTHER DEAD BLOW TYPE MALLET IS TO BE USED
- 3) SLIGHTLY GREASE SEAL END OF DRIVER PRIOR TO INSTALLING SEAL

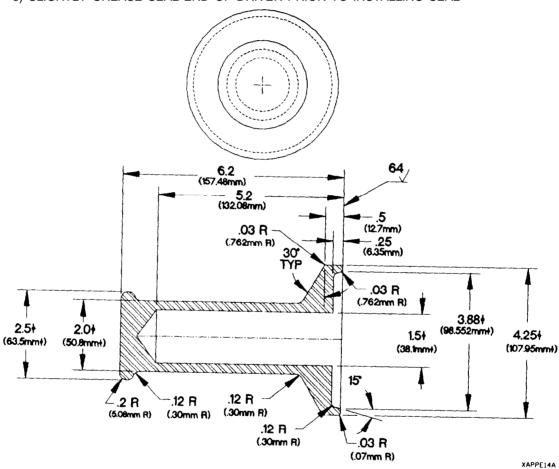


Figure E-9. CTIS Seal Driver

- a. All dimensions are in inches (millimeters).
- b. Manufacture from round steel stock.
- c. De-burr and remove sharp edges.

E-19. WHEEL HUB GREASE SEAL DRIVER 3256-K-1051

NOTES ON USE OF DRIVER

- 1) SEAL END OF DRIVER TO BE CLEAN OF DEBRIS, DIRT, NICKS AND BURRS
- 2) DO NOT USE A METAL HAMMER ON DRIVER A RUBBER, PLASTIC, WOOD OR SOME OTHERDEAD BLOW TYPE MALLET IS TO BE USED

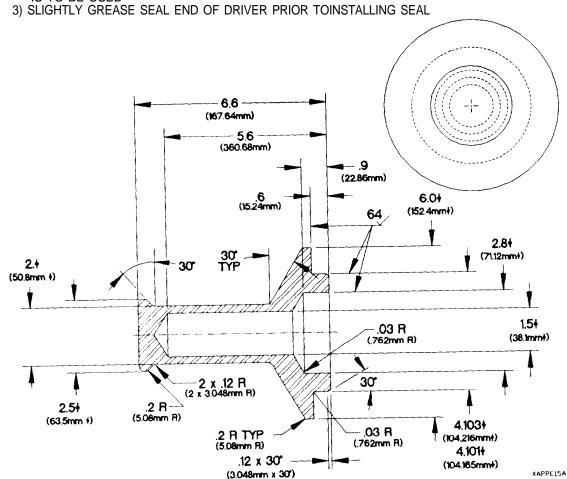


Figure E-10. Wheel Hub Grease Seal Driver

- a. All dimensions are in inches (millimeters).
- b. Manufacture from round steel stock.
- c. De-burr and remove sharp edges.

APPENDIX F TORQUE LIMITS

F-1. GENERAL

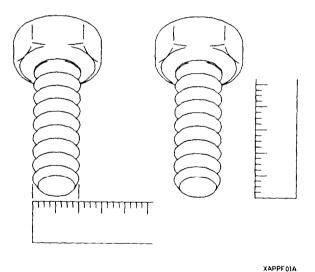
This appendix provides general torque limits for screws and nuts used on the vehicle. Special torque limits are shown in the maintenance procedures for applicable components. Use the general torque limit given in this appendix when specific torque limits are not given in the maintenance procedure. These general torque limits can not be applied to screws that retain rubber components. The rubber components will be damaged before the torque limit is reached. If a special torque limit is not given in the maintenance instructions for a fastener which retains a rubber component, tighten the screw or nut until it touches metal, then tighten one more turn. Whenever possible, the tightening force (torque) should be applied to the nut side of the fastener group.

F-2. TORQUE LIMITS

Refer to Table F-1. Torque Limits for SAE and ANSI Fasteners for torque limits on standard (SAE and ANSI) screws and free spinning nuts. Refer to Table F-2. Torque Limits for SAE and ANSI Prevailing Torque Nuts for torque limits on standard (SAE and ANSI) self-locking nuts. Refer to Table F-3. Torque Limits for Metric Screws and Free Spinning Nuts for torque limits on metric screws and free spinning nuts. Refer to Table F-4. Torque Limits for Metric Prevailing Torque Nuts for torque limits on metric self-locking nuts.

F-3. USE OF TORQUE TABLES

- (1) Measure the diameter of the screw to be installed.
- (2) Count the number of threads per inch.
- (3) Under the heading DIAMETER look down the column until the diameter of the screw is found. (There are usually two lines beginning with the same diameter.)
- (4) Under the heading THREADS PER INCH (SAE and ANSI) or THREAD PITCH (metric), find the number of threads per inch that matches the number counted in step (2).
- (5) To find the grade of the screw, match the markings on the head to the correct picture under CAPSCREW HEAD MARKINGS on the torque table.
- (6) Look down the column under the picture found in step (5) until the torque limit (lb-ft or N•m) for the diameter and threads per inch (or thread pitch, in the case of metric fasteners) of the screw are located.



APPENDIX F TORQUE LIMITS

Table F-1. Dry Torque Limits for SAE and ANSI Screws and Free Spinning Nuts

<u></u>	Table F-1. Dry Torque Limits for SAE and ANSI Screws and Free Spinning Nuts						
				Material Grad	de Markings		
NOTE Manufacturer's marks may vary. These are all SAE Grade 5.			XAPPF03A XAPPF04A SAE Grade 2 SAE Grade 5			XAPPF 06A SAE Grade 8	
Diameter	Threads per inch			Toro	que		
inch	<u> </u>	lb-ft	N∙m	lb-ft	N•m	lb-ft	N•m
1/4	20	3-5	5-7	5-7	8-10	8-10	10-14
1/4	28	4-6	5-7	6-8	9-11	8-12	12-16
1/4	32	4-6	5-7	7-9	9-11	9-13	12-16
5/16	18	7-9	9-13	11-15	15-21	15-21	21-29
5/16	24	8-10	11-15	12-16	17-23	17-23	24-32
5/16	32	9-11	12-16	14-18	18-24	19-25	27-34
3/8	16	13-17	17-23	20-26	27-35	28-38	38-50
3/8	24	15-19	20-26	22-30	31-41	32-42	43-57
3/8	32	15-21	21-27	24-32	33-43	33-45	55-61
7/16	14	20-28	28-38	32-42	43-57	44-60	61-81
7/16	20	23-31	31-41	35-47	48-64	49-67	68-90
7/16	28	25-33	33-45	37-51	51-69	54-72	73-97
1/2	13	32-42	43-57	49-65	66-88	68-92	93-123
1/2	20	35-47	48-64	55-73	74-98	77-103	105-139
1/2	28	38-50	51-67	58-78	79-105	82-110	111-149
9/16	12	55-61	62-82	70-94	95-127	98-132	134-178
9/16	18	50-68	69-91	78-104	105-141	109-147	149-199
9/16	24	53-71	72-96	82-110	111-149	115-155	158-210
5/8	11	62-84	85-113	95-129	131-175	136-182	184-246
5/8	18	70-94	96-128	108-146	148-198	154-206	209-279
5/8	24	73-99	100-134	114-154	155-207	161-217	219-293

Material Grade Markings Manufacturer's marks may vary. These are all XAPPF03A SAE Grade 5 XAPPF04A XAPPF06A SAE Grade 2 SAE Grade 5 SAE Grade 8 Diameter Threads Torque per inch inch lb-ft N•m lb-ft N•m lb-ft N•m 11/16 24 99-133 135-181 153-207 209-279 217-291 296-394 3/4 10 110-148 150-200 171-229 232-310 240-324 328-438 3/4 16 123-165 168-224 190-256 259-345 269-361 366-488 3/4 20 127-171 174-232 197-265 268-358 278-374 379-505 13/16 20 252-340 345-459 357-481 487-649 7/8 9 275-369 374-498 387-521 528-704 7/8 14 303-407 413-551 427-575 583-777 7/8 20 319-429 435-579 450-606 614-818 15/16 20 395-531 538-718 558-750 760-1014 1 8 411-553 560-748 581-781 792-1056 1 12 450-606 614-818 636-856 867-1155 1 20 483-649 658-878 681-917 929-1239 1-1/16 18 576-776 782-1044 813-1095 1109-1479 1-1/8 7 507-683 693-923 824-1108 1123-1497 1-1/8 12 570-766 776-1034 923-1241 1258-1678 1-1/8 18 600-806 817-1089 971-1307 1324-1766 1-3/16 18 709-953 966-1288 1149-1545 1566-2088 1-1/4 7 716-964 976-1302 1161-1563 1584-2112 1-1/4 12 793-1067 1081-1441 1286-1730 1754-2338 1-1/4 18 831-1117 1132-1510 1346-1812 1835-2447 1-5/16 18 965-1299 1316-1754 1565-2105 2134-2846 1-3/8 6 939-1263 1281-1707 1523-2049 2076-2768

Table F-1. Dry Torque Limits for SAE and ANSI Screws and Free Spinning Nuts (Cont)

APPENDIX F TORQUE LIMITS

Table F-2. Dry Torque Limits for SAE and ANSI Prevailing Torque Nuts

·							
Material Gra	Material Grade Markings						
XAPPF 07A	XAPPF 08A						
SAE Grade 5	SAE Grade 8						

Hole Diameter	Threads per inch	Torque			
inch		lb-ft	N•m	lb-ft	N+m
1/4	20	10-12	14-16	15-17	20-24
1/4	28	12-14	16-18	14-18	21-25
5/16	18	20-24	27-33	26-32	36-44
5/16	24	22-26	30-36	29-35	40-48
3/8	16	35-41	47-55	48-58	65-77
3/8	24	38-46	53-63	53-63	72-86
7/16	14	55-65	74-88	75-91	103-123
7/16	20	60-70	81-97	80-98	110-132
1/2	13	86-102	116-138	113-137	154-184
1/2	20	92-110	125-149	127-153	177-207
9/16	12	120-144	162-194	168-202	229-273
9/16	18	135-161	183-219	179-217	244-294
5/8	11	165-199	226-270	226-272	306-368
5/8	18	181-219	246-296	244-296	331-401
3/4	10	296-354	402-480	395-479	538-648
3/4	16	310-376	422-508	424-516	576-698
7/8	9	460-554	625-749	612-746	833-1009
7/8	14	503-607	684-822	652-800	888-1082
1	8	686-828	933-1121	941-1141	1280-1544

Table F-3. Dry Torque Limits for Metric Screws and Free Spinning Nuts

Material Grade Markings XAPPF 10A XAPPF 10A XAPPF 12A Metric Grade 4.8 Metric Grade 8.8 Metric Grade 10.9 Metric Grade 12.9

		Metric G	Metric Grade 4.8 Metric Grade 8.8 Metric Grade 10.9 M				Metric G	rade 12.9	
Diameter	Thread				Torque				
mm	Pitch	lb-ft	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft	N•m
6	1	3	4-5	5-7	7-9	7-9	10-13	8-11	11-15
8	1.25	7-9	9-11	13-17	17-23	17-23	23-31	21-27	27-37
8	1	7-9	9-13	14-18	18-24	19-25	25-33	21-29	29-39
10	1.5	13-17	17-23	25-33	33-45	34-46	46-62	40-54	54-72
10	1.25	14-18	18-24	26-34	35-47	36-48	49-65	42-58	57-77
10	0.75	15-19	21-27	29-39	39-53	40-54	54-72	47-63	63-85
12	1.75	22-30	30-40	43-57	58-78	60-80	81-107	69-93	94-126
12	1.5	23-31	32-42	46-60	61-81	63-83	85-113	73-97	99-131
12	1.25	24-32	33-45	47-63	65-85	65-87	88-118	76-102	104-138
12	1	26-34	34-46	49-65	67-89	68-90	93-123	80-106	108-144
14	2	36-48	48-74	69-91	93-125	95-127	129-173	112-148	151-201
14	1.5	39-51	52-70	75-99	99-135	103-137	140-186	120-160	163-217
15	1	51-69	69-93	100-132	135-179	137-183	187-249	160-214	218-290
16	2	55-73	75-99	107-143	145-193	148-198	201-267	173-231	235-313
16	1.5	59-79	80-106	114-152	155-207	158-210	214-286	184-246	250-334
18	1.5			166-222	225-301	230-30 6	311-415	268-358	364-486
20	2.5			209-279	283-377	289-385	392-522	338-450	458-610
20	1.5			232-308	315-419	321-427	435-57 9	375-499	508-678
20	1			244-324	330-440	337-449	457-609	394-524	534-712
22	2.5			285-379	387-515	394-524	534-712	461-613	624-832
22	1.5			313-417	424-566	432-576	586-782	664-884	900-1200
24	3			361-481	489-653	499-665	677-903	584-77 8	791-1055
24	2			394-524	534-712	545-725	738-984	725-965	982-1310
25	1.5			467-621	633-843	645-859	875-1167	754-1004	1023-1363

APPENDIX F TORQUE LIMITS

Table F-4. Dry Torque Limits for Metric Prevailing Torque Nuts

		Material Grade Markings							
		X. Metric G	APPF13A rade 4.8	XAPPF14A Metric Grade 8.8 Metric Grade 10.9		XAPPF16A Metric Grade 12.9			
Diameter	Thread				7	Torqu e			
mm	Pitch	lb-ft	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft	N•m
6	1	5-6	7-8	7-9	10-12	10-12	14-17	11-14	15-19
8	1.25	12-14	16-18	18-22	24-30	24-30	32-40	27-33	36-46
8	7	12-14	16-20	19-23	25-31	25-31	34-42	28-36	38-48
10	1.5	21-25	28-34	33-41	44-56	44-56	60-76	50-64	68-86
10	1.25	21-25	29-35	34-42	46-58	46-58	63-79	53-67	71-91
10	0.75	23-27	31-37	37-47	49-63	50-64	68-86	57-73	77-99
12	1.75	33-41	46-56	55-69	74-94	75-95	102-128	85-109	115-147
12	1.5	35-43	47-57	56-72	77-97	78-98	106-134	89-113	120-152
12	1.25	36-44	48-60	58-74	79-101	81-103	109-139	91-117	125-159
12	1	37-45	50-62	61-77	82-104	84-106	114-144	95-121	129-165
14	2	53-65	72-88	87-109	117-149	118-150	160-204	134-172	182-232
14	1.5	57-69	76-94	92-116	125-159	126-160	171-217	143-183	194-248
16	2	79-97	107-131	130-166	177-225	178-228	243-309	204-262	277-355
16	1.5	82-102	112-138	138-176	187-239	189-241	256-328	215-277	292-376
18	1.5			197-253	267-343	271-347	367-471	309-399	420-542
20	2.5	ļ		248-318	337-431	342-438	464-594	391-503	530-682
20	1.5			271-349	369-473	374-480	507-651	428-552	580-750
20	1		ļ	283-365	384-494	390-502	529-681	447-577	606-784
22	2.5			335-429	455-583	460-592	624-802	526-680	714-922
22	1.5			363-467	492-634	499-643	676-872	730-950	990-1290
24	3			420-540	569-733	577-743	783-1009	662-856	897-1161
24	2]	453-583	614-792	622-804	844-1090	803-1043	1088-1416

Table F-5. Wet Torque Limits for SAE and ANSI Screws and Free Spinning Nuts

Table F-5. Wet Torque Limits for SAE and ANSI Screws and Free Spinning Nuts							
		Material Grade Markings					
NOTE Manufacturer's marks may vary. These are all SAE Grade 5.		}	XAPPF03A XAPPF04A XAPPF06 SAE Grade 2 SAE Grade 5 SAE Grade 8			XAPPF06A Grade 8	
Diameter	Threads per inch			То	rque		
inch		lb-ft	N•m	lb-ft	N•m	lb-ft	N•m
1/4	20	4	6	6	8	9	12
1/4	28	5	7	7	9	10	14
5/16	18	8	11	13	18	18	24
5/16	24	9	12	14	19	20	27
3/8	16	15	20	23	31	35	47
3/8	24	17	23	25	34	35	47
7/16	14	24	33	35	47	55	75
7/16	20	25	34	40	54	60	81
1/2	13	35	47	55	75	80	108
1/2	20	40	54	65	88	90	122
9/16	12	50	68	80	108	110	149
9/16	18	55	75	90	122	130	176
5/8	11	70	95	110	149	170	231
5/8	18	80	108	130	176	180	244
3/4	10	120	163	200	271	280	380
3/4	16	140	190	220	298	320	434
7/8	9	110	149	300	407	460	624
7/8	14	120	163	320	434	500	678
ו	8	160	217	440	597	680	922
1	12	170	231	480	651	740	1003
1-1/8	7	220	298	600	814	960	1302
1-1/8	12	260	353	660	895	1080	1464

APPENDIX F TORQUE LIMITS

Table F-5. Wet Torque Limits for SAE and ANSI Screws and Free Spinning Nuts (Cont)

			Material Grade Markings				
Manufacturer's marks may vary. These are all SAE Grade 5			APPF03A	SAE G	APPF04A	XA SAE G	IPPF06A
Diameter	Threads per inch			Tor	que		
inch	1	lb-ft	N•m	lb-ft	N•m	lb-ft	N•m
1-1/4	7	320	434	840	1139	1360	1844
1-1/4	12	360	488	920	1248	1500	2034
1-3/8	6	420	570	1100	1492	1780	2414
1-3/8	12	460	624	1260	1709	2040	2766

APPENDIX G MANDATORY REPLACEMENT PARTS

Section I. INTRODUCTION

G-1. SCOPE

This appendix lists mandatory replacement parts you will need to maintain the LMTV vehicle.

G-2. EXPLANATION OF COLUMNS

a. Column (1) - Item Number. This number is assigned to each entry in the listing and is

referenced in the Initial Setup of the applicable task under

Materials/Parts.

b. Column (2) - Nomenclature. Name or identification of the part.

c. Column (3) - Part Number. The manufacturer's part number.

d. Column (4) - National Stock Number. The National stock number of the part.

Section II. MANDATORY REPLACEMENT PARTS LIST

(1) ITEM NO.	(2) NOMENCLATURE	(3) PART NUMBER	(4) NATIONAL STOCK NUMBER
1	BLADE, WINDSHIELD WIPER	105.384	2540-01-364-1621
2	BOLT, MACHINE	12414307-065	5306-01-382-5054
3	BOOT KIT, EXHAUST	DQ6025	4730-01-417-3197
4	BUMPER, RUBBER	12419182	5340-01-410-8397
5	BUSHING, SLEEVE	7-199-002668	3120-01-367-6894
6	CHANNEL, RUBBER	ZZR765/2-001A7	9390-01-420-4560
7	CLAMP	024S9	
8	CLAMP	032S9	
9	DECAL	12340917	7690-01-256-4909
10	FASTENER TAPE	MIL-F-21840	8315-00-006-9855
11	FASTENER TAPE	50-534718-19	8315-00-935-6762
12	FILTER ASSEMBLY	75223-11	2940-01-417-9333
13	FILTER ELEMENT	1048011	2940-01-385-8931
14	FILTER ELEMENT, FLUID	R22146	2910-01-360-6366
15	FILTER ELEMENT, FLUID	29507750	2940-01-361-2406
16	FILTER ELEMENT, FLUID	599791	4460-01-284-2344
17	FILTER ELEMENT, FLUID	931558	2940-01-363-4377

Section II. MANDATORY REPLACEMENT PARTS LIST (CONT)

(1) ITEM NO.	(2) NOMENCLATURE	(3) PART NUMBER	(4) NATIONAL STOCK NUMBER
18	FILTER ELEMENT,INTAKE AIR CLEANER	P52-7750	2940-01-361-2407
19	FILTER, AIR	12416539	
20	FILTER, AIR	12416563	
21	FILTER, FUEL	7E9763	2940-01-363-3089
22	FILTER, OIL	1R0739	2940-00-029-0388
23	GASKET	F337576M6	
24	GASKET	M28840/24HA	5935-01-421-9754
25	GASKET	QS-1181	5330-01-058-3788
26	GASKET	10-36675-18	5330-00-298-0190
27	GASKET	119-2940	5330-01-424-7905
28	GASKET	12421469	
29	GASKET	12422254	
30	GASKET	13848	5330-01-211-0717
31	GASKET	350700	5330-01-295-3053
32	GASKET	350903	5330-00-576-4626
33	GASKET	352200	5330-01-421-6105
34	GASKET	352302	5330-01-421-6107
35	GASKET	353400	5330-01-421-6102
36	GASKET	353806	5330-01-421-6103
37	GASKET	353810	
38	GASKET	355148	5330-01-423-0596
39	GASKET	355175	5330-01-423-0623
40	GASKET	3K3257	5330-01-305-6550
41	GASKET	4P1624	5330-01-360-5934
42	GASKET	9Y8103	5330-01-360-5931
43	GASKET, FUEL FILTER	7C1159	5330-01-360-5941
44	GASKET, RING	331.406	5330-01-395-4645
45	GASKET, THERMOSTAT	2W7212	5330-01-347-3206
46	GROMMET, NONMETALLIC	MS35489-6	5325-00-263-6632
47	GROMMET, NONMETALLIC	12417598	5325-01-375-1299
48	GROMMET, NONMETALLIC	12421402	5325-01-440-2178

Section II. MANDATORY REPLACEMENT PARTS LIST (CONT)

(1) ITEM NO.	(2) NOMENCLATURE	(3) PART NUMBER	(4) NATIONAL STOCK NUMBER
49	GROMMET, NONMETALLIC	4082-36734-01	5325-01-194-3076
50	GROMMET, NONMETALLIC	50S12-1-1AA	5325-01-145-0105
51	GROMMET, NONMETALLIC	8741442	5325-00-088-6147
52	INSULATOR, TANK	A1394J	5970-01-385-7317
53	INSULATOR, TANK	A1394K	5970-01-385-7262
54	KIT, FILTER	29503829	
55	KIT, FILTER	29526899	
56	KIT, PROPELLER SHAFT	KT-16SB	2520-01-370-1360
57	LAMP, INCANDESCENT	CM7-7373	6240-00-270-6824
58	LAMP, INCANDESCENT	CM7376	6240-00-499-6278
59	LATCH, BAIL HEAD	68-20-101-10	2540-01-232-2470
60	LOCKNUT	0770-023-003	5310-01-423-3725
61	LOCKWASHER	ABCH207-LW-1/2	
62	LOCKWASHER	ABCH207-LW-3/8	
63	LOCKWASHER	B7949000161	
64	LOCKWASHER	D70336/1-20	5310-01-110-7933
65	LOCKWASHER	D70336/3-50	5310-01-439-2542
66	LOCKWASHER	D70336/3-52	5310-01-439-2543
67	LOCKWASHER	MS35335-30	5310-00-209-0788
68	LOCKWASHER	MS35335-31	5310-00-596-7693
69	LOCKWASHER	MS35335-33	5310-00-209-0786
70	LOCKWASHER	MS35335-36	5310-00-550-3503
71	LOCKWASHER	MS35335-38	5310-00-616-6354
72	LOCKWASHER	MS35335-58	5310-00-209-1366
73	LOCKWASHER	MS35335-61	5310-00-527-3634
74	LOCKWASHER	MS35335-62	5310-00-184-9562
75	LOCKWASHER	MS35337-25	5310-00-013-8502
76	LOCKWASHER	MS35338-100	5310-00-261-8278
77	LOCKWASHER	MS35338-102	5310-00-167-0671
78	LOCKWASHER	MS35338-103	5310-00-184-8971
79	LOCKWASHER	MS35338-135	5310-00-933-8118

TM 9-2320-365-20-4

Section II. MANDATORY REPLACEMENT PARTS LIST (CONT)

(1)	(2)	(3)	(4)
ITEM NO.	NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
80	LOCKWASHER	MS35338-136	5310-00-929-6395
81	LOCKWASHER	MS35338-137	5310-00-933-8119
82	LOCKWASHER	MS35338-138	5310-00-933-8120
83	LOCKWASHER	MS35338-139	5310-00-933-8121
84	LOCKWASHER	MS35338-140	5310-00-974-6623
85	LOCKWASHER	MS35338-141	5310-00-984-7042
86	LOCKWASHER	MS35338-143	5310-00-933-8778
87	LOCKWASHER	MS35338-158	5310-00-883-9417
88	LOCKWASHER	MS35338-171	5310-01-130-9066
89	LOCKWASHER	MS35338-42	5310-00-045-3299
90	LOCKWASHER	MS35338-43	5310-00-045-3296
91	LOCKWASHER	MS35338-45	5310-00-407-9566
92	LOCKWASHER	MS35338-46	5310-01-334-4710
93	LOCKWASHER	MS35338-51	5310-00-584-7888
94	LOCKWASHER	MS35340-44	5310-00-682-5930
95	LOCKWASHER	MS51414-1	5310-01-235-2057
96	LOCKWASHER	MS51414-2	5310-01-310-1098
97	LOCKWASHER	MS51848-50	5310-01-033-8615
98	LOCKWASHER	N9015	5310-01-369-6073
99	LOCKWASHER	N9018	5310-01-032-4827
100	LOCKWASHER	N9459	5310-01-348-8393
101	LOCKWASHER	N9461	5310-01-348-8392
102	LOCKWASHER	1229-S-513C	5310-01-062-3384
103	LOCKWASHER	12414570-015	5310-01-388-2043
104	LOCKWASHER	12414570-021	5310-01-374-4516
105	LOCKWASHER	152.269	5310-01-407-4764
106	LOCKWASHER	152.522	
107	LOCKWASHER	152.544	5340-01-395-0823
108	LOCKWASHER	1729B262	5310-00-964-7811
109	LOCKWASHER	488.671	
110	NUT, BLIND RIVET	MS27130-S136	5310-01-409-4435

Section II. MANDATORY REPLACEMENT PARTS LIST (CONT)

(1) ITEM NO.	(2) NOMENCLATURE	(3) PART NUMBER	(4) NATIONAL STOCK NUMBER
111	NUT, BLIND RIVET	MS27130-S148	5310-01-370-5548
112	NUT, BLIND RIVET	12421403-060	
113	NUT, BLIND RIVET	12421403-065	
114	NUT, BLIND RIVET	12421634-017	
115	NUT, BLIND RIVET	12442158-5	
116	NUT, SELF-LOCKING	DIN-934STM6	5310-01-342-2739
117	NUT, SELF-LOCKING	MS16228-10C	5310-00-245-8826
118	NUT, SELF-LOCKING	MS16228-5C	5310-00-584-7992
119	NUT, SELF-LOCKING	MS20500-524	5310-00-208-4023
120	NUT, SELF-LOCKING	M21042-04	5310-00-811-6419
121	NUT, SELF-LOCKING	MS21042-5	5310-00-807-1469
122	NUT, SELF-LOCKING	MS21044C08	5310-00-982-6814
123	NUT, SELF-LOCKING	MS21083N08	5310-00-941-6019
124	NUT, SELF-LOCKING	MS21083N6	5310-00-926-1852
125	NUT, SELF-LOCKING	MS51922-1	5310-00-088-1251
126	NUT, SELF-LOCKING	MS51922-2	5310-00-929-1807
127	NUT, SELF-LOCKING	MS51922-33	5310-00-225-6993
128	NUT, SELF-LOCKING	MS51922-5	5310-00-959-7600
129	NUT, SELF-LOCKING	N9406	5310-01-362-6171
130	NUT, SELF-LOCKING	N9410	5310-01-348-8398
131	NUT, SELF-LOCKING	N9467	5310-01-350-4257
132	NUT, SELF-LOCKING	12301125	5310-01-210-0199
133	NUT, SELF-LOCKING	12412476-04	
134	NUT, SELF-LOCKING	12414308-002	5310-01-381-2819
135	NUT, SELF-LOCKING	12414308-003	5310-01-377-1549
136	NUT, SELF-LOCKING	12414308-004	5310-01-369-5703
137	NUT, SELF-LOCKING	12414308-007	5310-01-046-0186
138	NUT, SELF-LOCKING	12414308-017	5310-01-381-9830
139	NUT, SELF-LOCKING	12414308-018	5310-01-369-3337
140	NUT, SELF-LOCKING	12414308-019	5310-01-369-9522
141	NUT, SELF-LOCKING	12414308-020	5310-01-381-9849

Section II. MANDATORY REPLACEMENT PARTS LIST (CONT)

(1) ITEM NO.	(2) NOMENCLATURE	(3) PART NUMBER	(4) NATIONAL STOCK NUMBER
142	NUT, SELF-LOCKING	12414308-021	5310-01-369-3338
143	NUT, SELF-LOCKING	12414308-022	5310-01-417-1262
144	NUT, SELF-LOCKING	12414308-025	5310-01-367-6706
145	NUT, SELF-LOCKING	12414308-027	5310-01-369-3339
146	NUT, SELF-LOCKING	12414315-003	5310-01-374-1382
147	NUT, SELF-LOCKING	12414315-005	5310-01-372-3023
148	NUT, SELF-LOCKING	12414315-006	5310-01-369-3332
149	NUT, SELF-LOCKING	12414315-009	5310-01-365-7236
150	NUT, SELF-LOCKING	12414315-012	5310-01-369-3331
151	NUT, SELF-LOCKING	12414315-017	5310-01-368-8065
152	NUT, SELF-LOCKING	12414420-004	5310-01-370-0010
153	NUT, SELF-LOCKING	12419003	5310-01-376-0773
154	NUT, SELF-LOCKING	270W10000	
155	NUT, SELF-LOCKING	29514660	
156	NUT, SELF-LOCKING	7951286	5310-00-789-0398
157	PACKING, PREFORMED	A82777	5330-00-579-6495
158	PACKING, PREFORMED	F4001-16	
159	PACKING, PREFORMED	J515-8-1	5330-00-292-8171
160	PACKING, PREFORMED	MK0012510	
161	PACKING, PREFORMED	MS28775-011	5330-00-582-2133
162	PACKING, PREFORMED	MS28775-227	5330-00-576-9731
163	PACKING, PREFORMED	MS28778-10	5330-00-285-9842
164	PACKING, PREFORMED	MS28778-12	5330-00-251-8839
165	PACKING, PREFORMED	MS28778-16	5330-00-816-3546
166	PACKING, PREFORMED	MS28778-4	5330-00-805-2966
167	PACKING, PREFORMED	MS9955-113	5330-01-374-2325
168	PACKING, PREFORMED	M25988/1-246	5330-01-189-6351
169	PACKING, PREFORMED	OR42OA	5330-01-389-6028
170	PACKING, PREFORMED	11639519-1	5330-00-463-0200
171	PACKING, PREFORMED	1509	5330-00-172-1919
172	PACKING, PREFORMED	2M4453	5330-00-074-3768

Section II. MANDATORY REPLACEMENT PARTS LIST (CONT)

(1) ITEM NO.	(2) NOMENCLATURE	(3) PART NUMBER	(4) NATIONAL STOCK NUMBER
173	PACKING, PREFORMED	22617-16	5330-01-168-0885
174	PACKING, PREFORMED	23043446	5330-01-424-6629
175	PACKING, PREFORMED	29500969	5330-01-360-7852
176	PACKING, PREFORMED	29503383	5330-01-360-6017
177	PACKING, PREFORMED	3-906N522-90	5330-01-104-1093
178	PACKING, PREFORMED	3-908N522-90	5330-00-929-8171
179	PACKING, PREFORMED	3D2824	5330-00-944-8281
180	PACKING, PREFORMED	3J1907	5330-01-333-6444
181	PACKING, PREFORMED	3J7354	5330-00-954-8008
182	PACKING, PREFORMED	3K0360	5330-00-948-6482
183	PACKING, PREFORMED	4J5477	5330-00-855-8059
184	PACKING, PREFORMED	4L9564	5330-00-828-8639
185	PACKING, PREFORMED	5-X-1155	5330-01-392-1637
186	PACKING, PREFORMED	5F7054	5330-00-339-6224
187	PACKING, PREFORMED	5P7813	5330-01-335-0042
188	PACKING, PREFORMED	6V8397	5330-00-579-6495
189	PACKING, PREFORMED	673268	
190	PACKING, PREFORMED	673269	5330-01-395-1252
191	PACKING, PREFORMED	7F8267	5330-01-291-7353
192	PACKING, PREFORMED	7320658	5330-00-297-7106
193	PACKING, PREFORMED	9604792-001	5330-01-429-3089
194	PAD, CUSHIONING	12416479-001	2590-01-397-7844
195	PAD, CUSHIONING	12416479-002	2590-01-412-2663
196	PARTS KIT, DEHYDRATOR	RN-60-A	4440-01-337-7324
197	PARTS KIT, SEAL REPLACEMENT	SK10-2	5330-01-350-4474
198	PARTS KIT, SEAL REPLACEMENT	SK10-3	5330-01-350-4472
199	PARTS KIT, SEAL REPLACEMENT	SK10-4	5330-01-343-2745
200	PIN, COTTER	K-2412-Z	5315-01-179-9882
201	PIN, COTTER	MS171659	5315-00-846-8337
202	PIN, COTTER	MS24665-151	5315-00-815-1405
203	PIN, COTTER	MS24665-298	5315-00-234-1861

Section II. MANDATORY REPLACEMENT PARTS LIST (CONT)

(1) ITEM NO.	(2) NOMENCLATURE	(3) PART NUMBER	(4) NATIONAL STOCK NUMBER
204	PIN, COTTER	MS24665-385	5315-00-187-9382
205	PIN, COTTER	MS24665-423	5315-00-013-7228
206	PIN, COTTER	MS24665-457	5315-00-187-9393
207	PIN, COTTER	MS24665-459	5315-00-187-9394
208	PIN, COTTER	MS24665-69	5315-00-828-8190
209	PIN, COTTER	352.497	5315-01-394-3546
210	PIN, SPRING	MS16562-142	5315-00-058-6115
211	PIN, SPRING	MS16552-146	5315-00-853-3814
212	PLASTIC STRIP	352700	5330-01-296-2109
213	RECEPTACLE	50R4-1-1AA	5325-01-049-2049
214	RING, BUSHING	152.157	
215	RIVET, BLIND	AK42H	5320-00-874-4477
216	RIVET, BLIND	AK43H	5320-00-143-6149
217	RIVET, BLIND	MS20600AD5W12	5320-01-047-0467
218	RIVET, BLIND	MS20604B3W2	5320-00-721-9075
219	RIVET, BLIND	M24243/1-A806	5320-00-850-3256
220	RIVET, BLIND	M24243/1-B302	5320-00-999-0397
221	RIVET, BLIND	M24243/1-D502	5320-00-850-3248
222	RIVET, BLIND	M24243/1-D608	5320-00-850-3246
223	RIVET, BLIND	M24243/1-F402	5320-00-129-9706
224	RIVET, BLIND	M24243/6-A403H	5320-00-882-8388
225	RIVET, BLIND	M24243/6-A405H	5320-01-291-9121
226	RIVET, BLIND	M24243/6-A406H	5320-01-421-0484
227	RIVET, BLIND	M24243/6-A602H	5320-00-956-7362
228	RIVET, BLIND	M24243/6-A604H	5320-00-956-7355
229	RIVET, BLIND	M24243/6-A606H	5320-00-882-8385
230	RIVET, BLIND	M24243/6-A608H	5320-01-032-6534
231	RIVET, BLIND	M24243/7-A402H	5320-00-874-4477
232	RIVET, BLIND	M24243/7-A403H	5320-00-143-6149
233	RIVET, BLIND	M24243/7-A604H	5320-00-420-2165
234	RIVET, BLIND	M24243/7-A606H	5320-00-490-5523

Section II. MANDATORY REPLACEMENT PARTS LIST (CONT)

(1) ITEM NO.	(2) NOMENCLATURE	(3) PART NUMBER	(4) NATIONAL STOCK NUMBER
235	RIVET, BLIND	SD64BSLF	5320-01-397-3347
236	RIVET, BLIND	206057	5320-01-411-0081
237	RIVET, COMPRESSION	12418469	5320-01-376-0699
238	SCREW, CAP	12414475-131	5303-01-363-0703
239	SCREW, CAP	6V-2315	5306-01-433-4753
240	SCREW, MACHINE	MS24693-144	
241	SCREW, MACHINE	MS51958-83	5305-00-071-2095
242	SCREW, SELF-LOCKING	MS16998-61L	5305-01-211-3097
243	SEAL	VC08G1R0B	5330-01-389-6109
244	SEAL	12421431	
245	SEAL	125128-5	
246	SEAL	125128-6	
247	SEAL	355150	5330-01-423-0689
248	SEAL ASSEMBLY, CTIS	A1205-Q-2435	5330-01-360-7753
249	SEAL ASSEMBLY, HUB	A1205-R-2254	5330-01-360-5252
250	SEAL, DOOR	12416467	5330-01-385-3769
251	SEAL RING, METAL	29505809	5330-01-360-5329
252	SEAL, NONMETALLIC	CC3550	
253	SEAL, NONMETALLIC	12417725	5330-01-375-2908
254	SEAL, NONMETALLIC	2418974-1	5330-01-257-1709
255	SEAL, NONMETALLIC	673267	5330-01-395-1251
256	SEAL, URETHANE FOAM	12420420-001	
257	SEAL, URETHANE FOAM	12420420-002	
258	SEAL, URETHANE FOAM	12420420-003	
259	SEAL, WEATHER	147P00039	
260	SPACER, RING	4P2987	5365-01-433-8407
261	SPLICE, CONDUCTOR	12420927-001	
262	SPLICE, CONDUCTOR	12420927-002	5940-01-421-6955
263	STRAIN RELIEF	10280870-3	5975-00-376-1585
264	TERMINAL, LUG	MS20659-163	5940-00-113-3145
265	TERMINAL, LUG	MS20659-164	5940-00-113-3148

Section II. MANDATORY REPLACEMENT PARTS LIST (CONT)

(1) ITEM NO.	(2) NOMENCLATURE	(3) PART NUMBER	(4) NATIONAL STOCK
			NUMBER
266	TERMINAL, LUG	MS25036-108	5940-00-143-4780
267	TERMINAL, LUG	MS25036-122	5940-00-113-8190
268	TERMINAL, LUG	12414275-001	
269	TERMINAL, LUG	12416409-006	
270	WASHER, FLAT	MS27183-10	5310-00-809-4058
271	WASHER, FLAT	12417948-004	5365-01-436-8308
272	WASHER, FLAT RUBBER	900.032	5330-01-378-7541
273	WASHER, NYLON	MS51859-16	5310-00-964-7811
274	WASHER, SPRING	D63474/1-30	5310-01-413-8475
275	WASHER, SPRING	WW579S18	
276	WASHER, SPRING	110 7289	5310-01-246-1387
277	WASHER, SPRING	12414559-021	5310-01-374-4517
278	WASHER, SPRING	12414560-017	5310-01-395-0820
279	WASHER, SPRING	12414560-018	5310-01-381-3281
280	WASHER, SPRING	12414560-019	5310-01-369-6074
281	WASHER, SPRING	12417503	5310-01-406-6326
282	WASHER, SPRING	12418220	5310-01-372-3495

APPENDIX H LUBRICATION ORDER

SECTION I. INTRODUCTION

H-1. GENERAL

The information contained in this appendix provides the lubrication requirements for the LMTV vehicle.

a. Adherence. Intervals (on-condition or hardtime) and the related man-hour times are based on normal operation. The man-hour time specified is the time needed to do all the services prescribed for a particular interval. On-condition (OC) oil sample intervals will be applied unless changed by the Army Oil Analysis Program (AOAP) laboratory. Change the hardtime interval if the lubricants are contaminated or if operating the equipment under adverse operating conditions, including longer-than-usual operating hours. The calendar interval may be extended during periods of low activity. If extended, adequate preservation precautions must be taken. Hardtime intervals will be applied in the event AOAP laboratory support is not available. Hardtime intervals must be applied during the warranty period.

Intervals shown in this lubrication order are based on mileage/calendar, and in some cases mileage alone. An example of a mileage/calendar interval is: **Q**, which means every 3,000 miles (4,827 km) or quarterly (every three months). The lubrication is to be performed at whichever interval occurs first for the vehicle. An example of a mileage alone interval is: **6K**, which stands for every 6,000 miles (9,654 km). The lubrication is to be performed at the mileage indicated regardless of the calendar interval.

WARNING

- Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well-ventilated area; avoid contact with skin, eyes, and clothes, and do not breath vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I Dry Cleaning Solvent is 100°F (38°C) and for Type II is 138°F (50°C). Failure to comply may result in serious injury or death to personnel.
- If personnel become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts skin or clothes, flush with cold water. If solvent contacts eyes, immediately flush eyes with water and get medical attention. Failure to comply may result in injury to personnel.
- **b. Cleaning fittings before lubricating.** Clean parts with dry cleaning solvent (SD P-D-680) (Item 71, Appendix D) or equivalent. Dry before lubricating. Dashed arrows indicate lubrication on both sides of the equipment.
- **c.** Lubricating after fording. If fording occurs, lubricate all fittings below fording depth and check submerged gearboxes for presence of water.
- **d. Lubricating after high-pressure washing.** After a thorough washing, lubricate all grease fittings and oil can points outside and underneath vehicle.
- e. Level of Maintenance. The lowest level of maintenance authorized to lubricate a point is Operator/Unit Maintenance (O). Operator/crew (C) may lubricate points authorized for Unit Maintenance (O) when authorized by Unit Maintenance (O).
- **f. Localized views.** A reference to the appropriate localized view is given after most lubrication entries. Localized views begin on page H-9.

H-1. GENERAL (CONT)

g. Interval Symbols. The lubrications interval symbols will be used as applicable:

Q-quarterly/3,000 mi (4,827 km) (whichever occurs first) S-semiannually/6,000 mi (9,654 km) (whichever occurs first) A-annually/12,000 mi (19,308 km) (whichever occurs first) B-biannually/24,000 mi (38,616 km) (whichever occurs first) 3K-every 3,000 mi (4,827 km) (no calendar interval) 6K-every 6,000 mi (9,654 km) (no calendar interval) 12K-every 12,000 mi (19,308 km) (no calendar interval) 24K-every 24,000 mi (38,616 km) (no calendar interval)

H-2. OIL FILTERS

Oil filters shall be serviced/changed as applicable, when:

- a. They are known to be contaminated, or clogged;
- b. Service is recommended by AOAP laboratory analysis; or
- c. At prescribed hardtime intervals while vehicle is under warranty, or if AOAP is not available/used as required.

H-3. AOAP SAMPLING INTERVAL

WARNING

- Engine oil is hot and under pressure. The oil sampling valve releases oil proportionally to the amount of pressure applied to valve. Activate oil sampling valve by pressing in slowly to prevent injury to personnel. Failure to comply may result in injury to personnel.
- Wear safety goggles when taking oil sample. Oil is under pressure and could cause injury to personnel. Failure to comply may result in injury to personnel.

Engine/transmission oil must be sampled every 90 days as prescribed by DA Pam 738-750. Hydraulic fluids must be sampled annually as prescribed by DA Pam 738-750.

H-4. WARRANTY HARDTIME STATEMENT

"For equipment under manufacturer's warranty, hardtime oil service intervals shall be followed. Intervals shall be shortened if lubricants are known to be contaminated or if operation is under adverse conditions (such as longer than usual operating hours, extended idling periods, extreme dust)."

SECTION II. LUBRICATION CHART

H-5. LUBRICATION KEY

LUBRICANTS			
Specification	Туре		
MIL-L-2104 (OE/HDO)	Lubricating Oil, Internal Combustion Engine, Combat/Tactical Service		
MIL-L-46167 (OEA)	Lubricating Oil, Internal Combustion Engine, Arctic		
MIL-L-2105 (GO)	Lubricating Oil, Gear, Multipurpose		
MIL-G-10924 (GAA)	Grease, Automotive and Artillery		
MIL-G-18458 (GW)	Grease, Wire-Rope and Exposed Gear		
MIL-H-5606 (OHA)	Hydraulic Fluid, Petroleum Base, Aircraft, Missile, and Ordnance		

		E)	PECTED TEMPERATI	JRES
DESCRIPTION	CAPACITY	Above +40°F (Above +4°C)	+40°F to -15°F (+4°C to -26°C)	-15°F to -50°F (-26°C to -46°C)
Engine crankcase	25 qt (24 L)	OE/HDO-15/40	SAE 10W30 OR 0E/HDO-10	OEA
Transmission (total system)	43.3 qt (41 L)	OE/HDO-15/40	OE/HDO-10	OEA
Transmission (at oil change)	31.8 qt (30.0 L)	OE/HDO-15/40	OE/HDO-10	OEA
Transmission (after overhaul)	39.0 qt (37.0 L)	OE/HDO-15/40	OE/HDO-10	OEA
Steering system	5 qt (4.8 L)	OE/HDO-10	OE/HDO-10	OEA
Hydraulic reservoir	27 gal (102.2 L)	OE/HDO-10	OE/HDO-10	OEA
Front axle differential (maximum capacity)	9.5 qt (9.0 L)	GO-80/90	GO-80/90	SAE 75W90 OR GO-75
Rear axle differential (meximum capacity)	18.05 qt (17.1 L)	GO-80/90	GO-80/90	SAE 75W90 OR GO-75
Front axie planetary hubs	11-13 oz (0.33-0.38 L)	GO-80/90	GO-80/90	SAE 75W90 OR GO-75
11K Self-Recovery Winch (SRW)	As Required	GO-85/140	GO-80/90	GO-75
Propeller shaft universal and slip joints	As Required	GAA	GAA	GAA
Tie rod ends	As Required	GAA	GAA	GAA
Towing pintle assembly	As Required	GAA	GAA	GAA
Spring bolts and spring shackles	As Required	GAA	GAA	GAA
Front axle shaft U-joints and steering knuckles	As Required	GAA	GAA	GAA

H-5. LUBRICATION KEY (CONT)

		E	KPECTED TEMPERATU	TEMPERATURES	
DESCRIPTION	CAPACITY	Above +40°F (Above +4°C)	+40°F to -15°F (+4°C to -26°C)	-15°F to -50°F (-26°C to -46°C)	
Front exle inner wheel bearing	As Required	GAA	GAA	GAA	
Rear axle inner wheel bearing	As Required	GAA	GAA	GAA	
Front lifting beam	As Required	GAA	GAA	GAA	
11K Self-Recovery Winch (SRW) cable	As Required	GW	GW	GW	
Air/hydraulic power unit	3 pt (1.4 L)	OHA	ОНА	ОНА	
Backup hydraulic pump	19 oz (562 ml)	ОНА	OHA	ОНА	

COOLANT				
Specification Type				
MIL-A-46153	Antifreeze, Ethylene Glycol, Inhibited, Heavy Duty, Single Package			
MIL-A-11755	Antifreeze, Arctic-Type			

		EXPECTED TEMPERATURES			
DESCRIPTION	CAPACITY	Above +40°F (Above +4°C)	+40°F to -15°F (+4°C to -26°C)	-15°F to -50°F (-26°C to -46°C)	
Cooling system (engine only)	14 qt (13 L)	MIL-A-46153	MIL-A-46153	N/A	
Cooling system (total system)	43.8 qt (41.5 L)	MIL-A-46153	MIL-A-46153	N/A	
Cooling system, Arctic (total system)	58.3 qt (55.2 L)	N/A	N/A	MIL-A-11755	

CLEANING AGENT			
Specification Type			
P-D-680 Dry Cleaning Solvent, SD-II			
O-C-1901 Cleaning Compound, Windshield			

	1	Ţ	EXPECTED TEMPERATU	IRES	
DESCRIPTION	CAPACITY	Above +15°F			
All metal parts as required	N/A	SD-II (all temperatures)			
Windshield washer reservoir	7.5 qt (7.1 L)	2/3 water to 1/3 O-C-1901	1/2 water to 1/2 O-C-1901	1/3 water to 2/3 O-C-1901	

For arctic operation refer to FM 9-207.

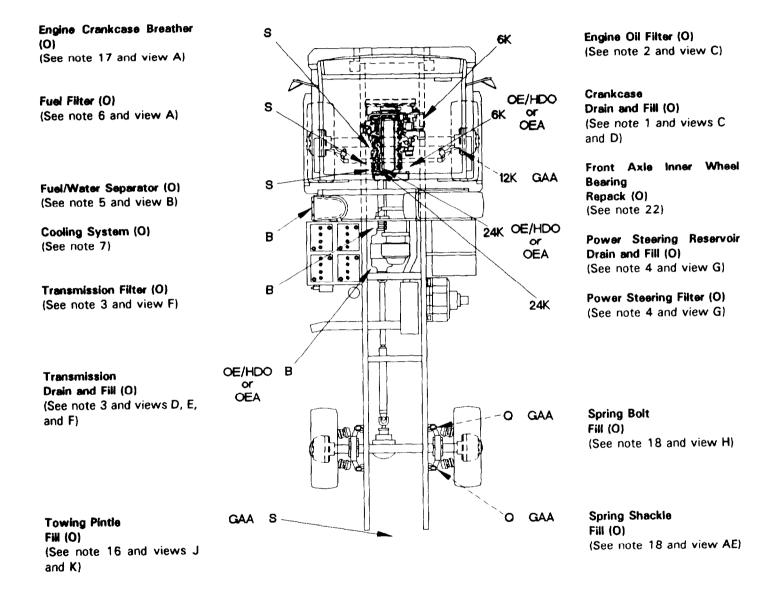
H-6. LUBRICATION INTERVALS

	Intervals	Total Man-Hours
Quarterly (Q)	Lubrication performed once every three months or 3,000 mi (4,827 km).*	2.0
Semi-annually (S)	Lubrication performed once every six months or 6,000 mi (9,854 km).*	2.5
Annually (A)	Lubrication performed once every year or every 12,000 mi (19,308 km).*	1.5
Bi-annually (B)	Lubrication performed once every two years or every 24,000 mi (38,616 km).*	3.5
3K	Lubrication performed once every 3,000 mi (4,827 km).**	1.0
6K	Lubrication performed once every 6,000 mi (9,654 km).**	1.0
12K	Lubrication performed once every 12,000 mi (19,308 km).**	4.0
24K	Lubrication performed once every 24,000 mi (38,616 km).**	0.5
Whichever occurs first. No calendar interval.		

H-7. LUBRICATION LOCATOR VIEWS

LUBRICANT INTERVAL

INTERVAL LUBRICANT



3APPH011

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NOTE: Dashed arrows indicate lubrication on both sides of vehicle.

LUBRICANT INTERVAL

INTERVAL LUBRICANT

Spring Bolt

Fill (O)

(See note 18 and view H)

Spring Shackle

Fill (O)

(See note 18 and view I)

Tie Rod Ends

Fill (O)

(See note 13 and view N)

Universal and Slip Joints

Fill (O)

(See note 9 and view P)

Battery Posts (0)

(See note 19 and view Q)

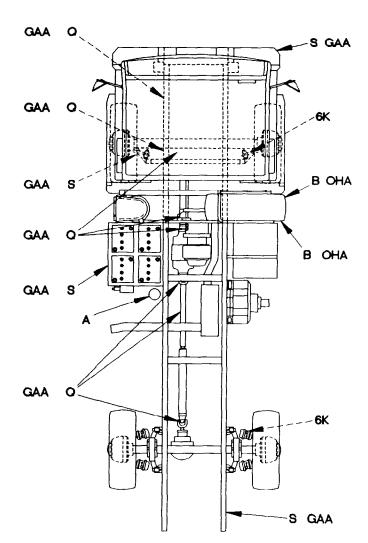
Air Dryer (O)

(See note 25 and view AF)

Universal and Slip Joints

Fill (O)

(See note 9 and view P)



11K Self-Recovery Winch (SRW) Cable Front Roller Fairlead

Fill (O)

(See note 23 and views Z and AA)

Brake Wedge and Air Chamber (O)

(See note 21 and view L)

Backup Hydraulic Pump Drain and Fill (O)

(See note 10 and view R)

Air/Hydraulic Power Unit Drain and Fill (O)

(See note 10 and view S)

Brake Wedge and Air Chamber (O)

(See note 21 and view M)

11K Self-Recovery Winch (SRW) Cable Rear Roller Fairlead

Fill (O)

(See note 23 and views AB and AC)

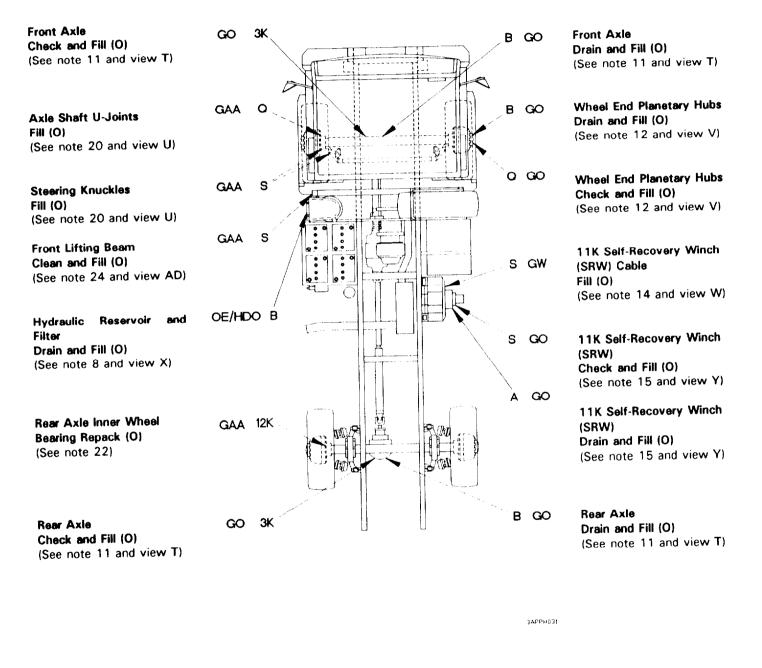
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NOTE: Dashed arrows indicate lubrication on both sides of vehicle.

LUBRICANT INTERVAL

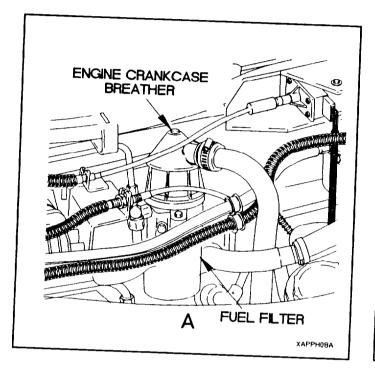
INTERVAL LUBRICANT

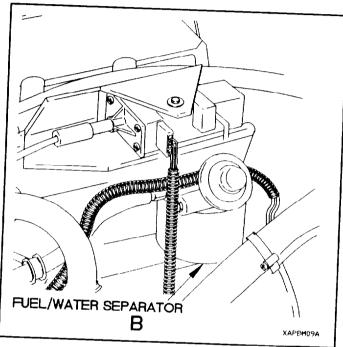


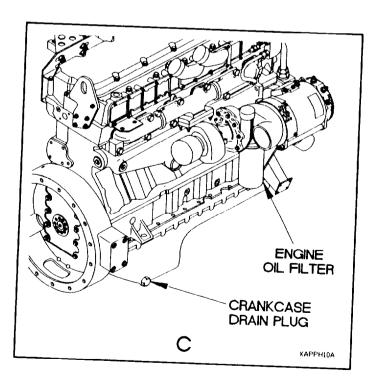
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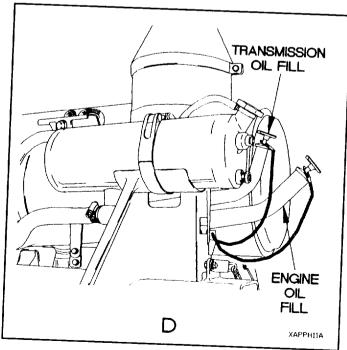
NOTE: Dashed arrows indicate lubrication on both sides of vehicle.

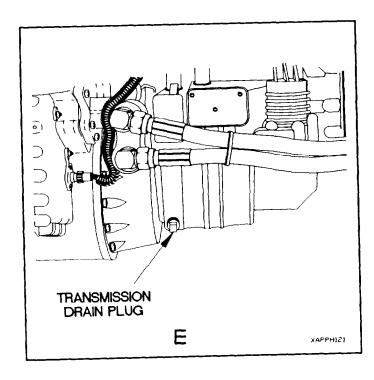
H-8. LUBRICATION LOCAL VIEWS

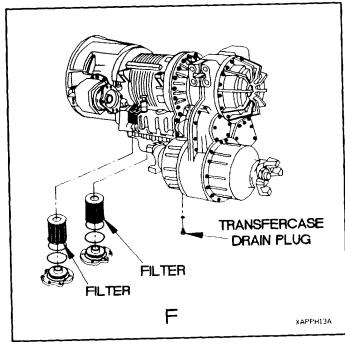


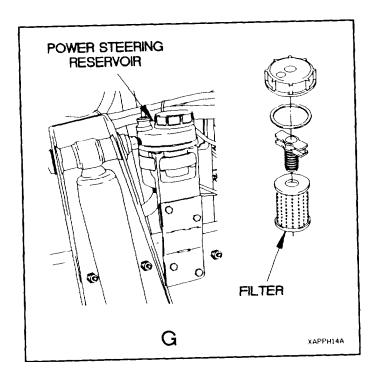


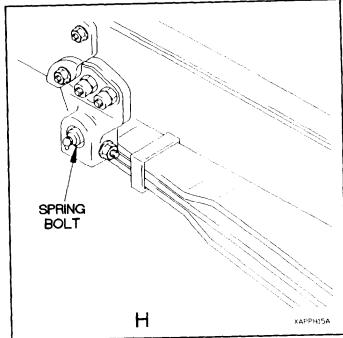


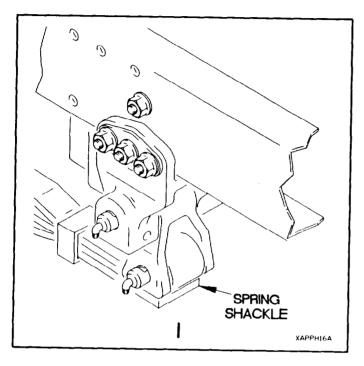


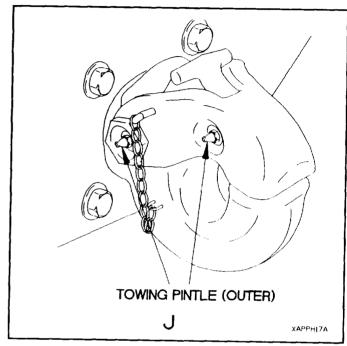


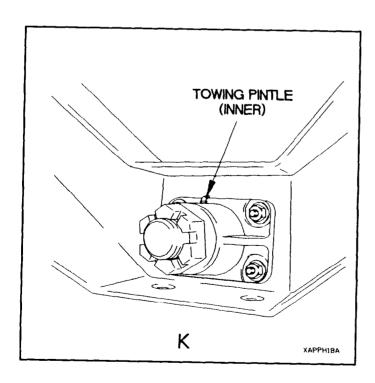


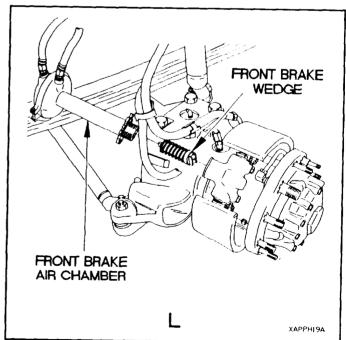


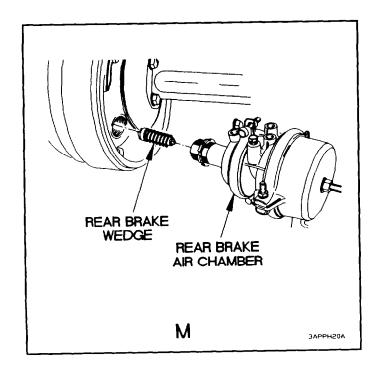


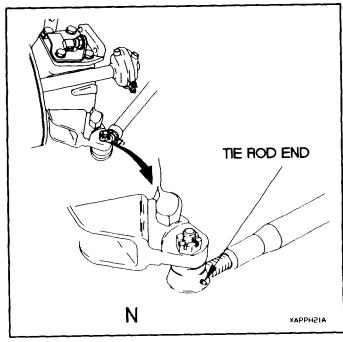


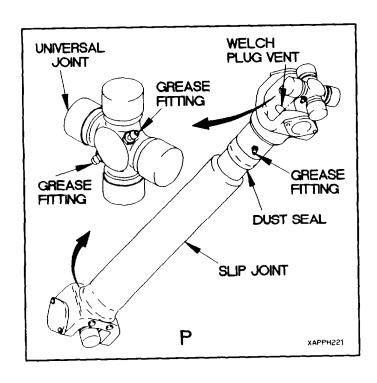


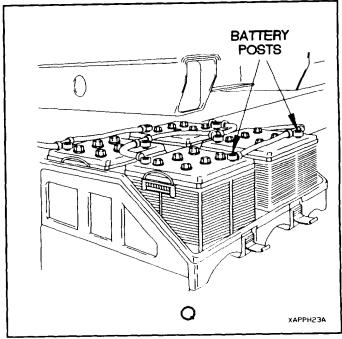


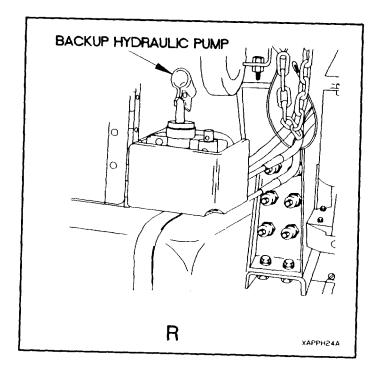


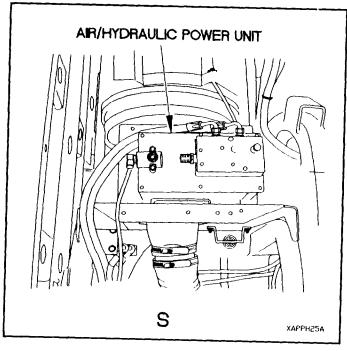


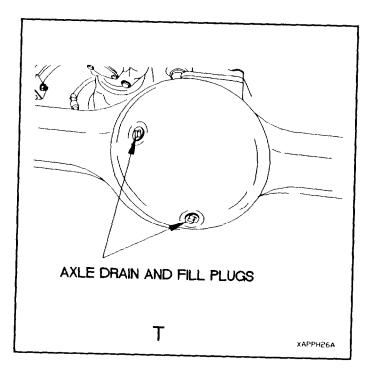


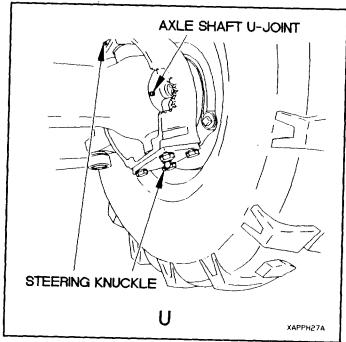


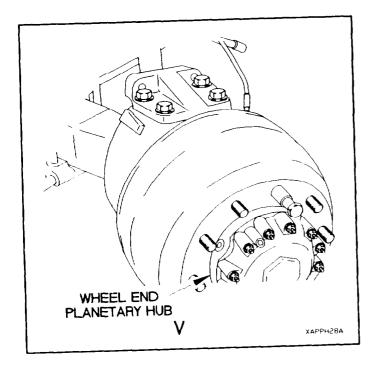


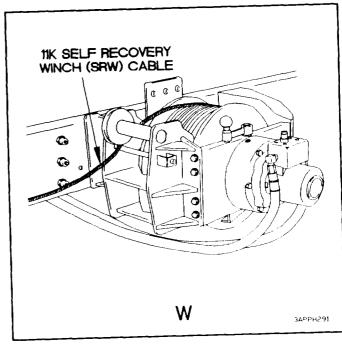


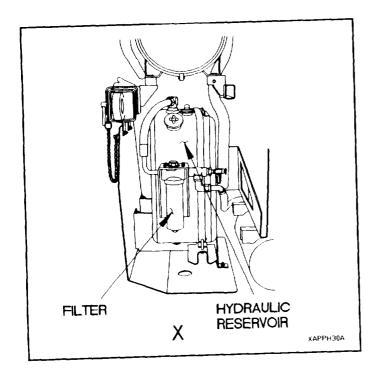


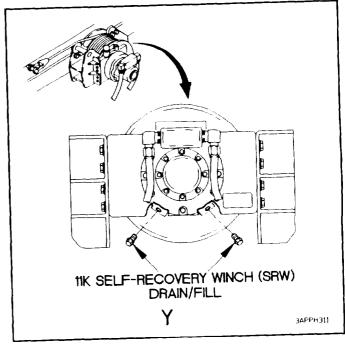


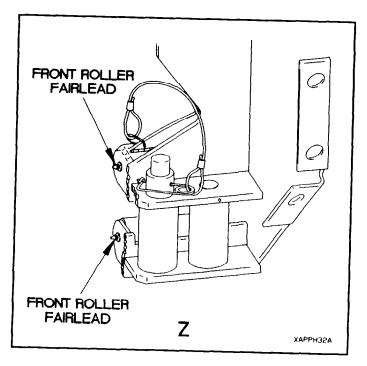


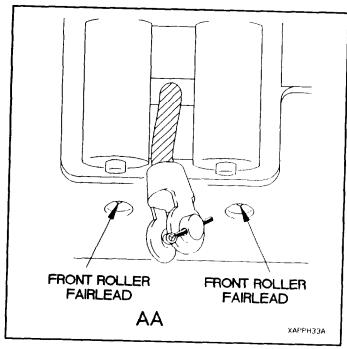


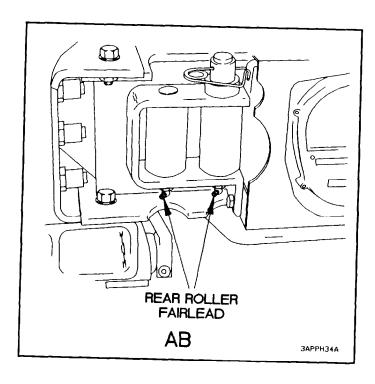


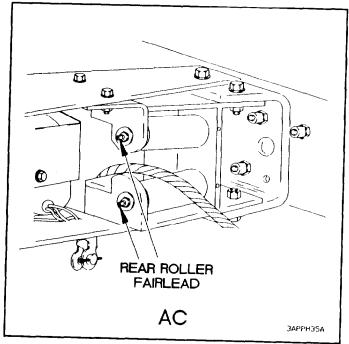


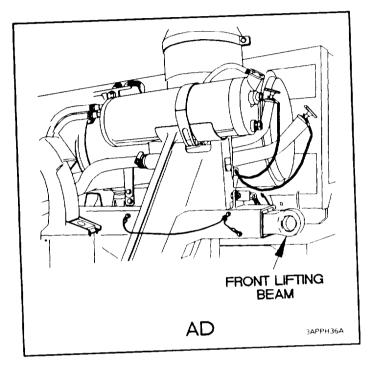


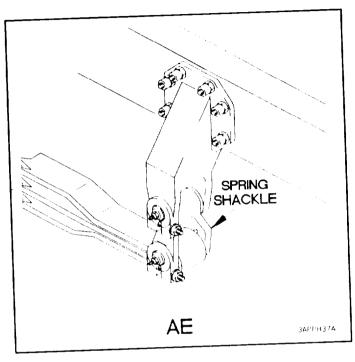


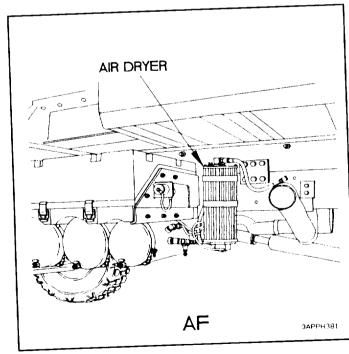












H-9. LUBRICATION NOTES

- 1. ENGINE CRANKCASE. Check engine oil level daily. Change engine oil at initial 5,000 miles (8,045 km). During the remainder of the 12,000 mile (19,308 km)/18 month warranty period, Units participating in AOAP will change engine oil every 6,000 miles (9,654 km). Units not participating in AOAP, will change engine oil every 6,000 miles (9,654 km) or every six months, whichever occurs first. After expiration of engine warranty period, Units participating in AOAP will perform engine oil change as directed by AOAP. Units not participating in AOAP will change engine oil every 6,000 miles (9,654 km) or every six months, whichever occurs first, or when operating in dusty areas or under severe operating conditions, change the oil every 3,000 miles (4,827 km) or every three months, whichever occurs first. Drain engine oil when engine is warm. Refill engine crankcase with OE/HDO specified for the ambient temperature. Engine oil is full when level is within crosshatch marks on the dipstick. Do not overfill.
- **2. ENGINE OIL FILTER.** Filter is replaced each time the crankcase is drained. If water or metal particles are detected during oil filter replacement, notify Direct Support Maintenance personnel before refilling crankcase.
- **3. TRANSMISSION.** Check transmission oil level daily. Change transmission oil at initial 5,000 miles (8,045 km). During the remainder of the 24 month/unlimited mileage warranty, Units participating in AOAP will perform transmission oil change as directed by AOAP. Units not participating in AOAP will perform transmission oil change every 24,000 miles (38,616 km) or once every two years, whichever occurs first. Drain transmission oil when engine is warm. Refill with OE/HDO specified for ambient temperature. Add oil until the proper level is reached (TM 9-2320-365-10). Do not overfill. Replace oil filters each time transmission oil is changed.
- **4. POWER STEERING.** Check power steering oil level weekly. Change the oil every 24,000 miles (38,616 km). Disconnect upper and lower hoses from steering gear and drain oil. Refill power steering pump reservoir with OE/HDO specified for the ambient temperature, Reservoir is full when oil is between the two marks on the dipstick. Do not overfill. Remove dipstick, wipe clean and install dipstick fully into reservoir. Remove dipstick and read oil level. Replace oil filter each time power steering oil is changed.
- **5. FUEL/WATER SEPARATOR.** Replace filter element every 6,000 miles (9,654 km) or once every six months, whichever occurs first.
- **6. FUEL FILTER.** The fuel particle filter is replaced when a new fuel/water separator filter element is installed. The normal replacement interval is every 6,000 miles (9,654 km) or once every six months, whichever occurs first.
- **7. ENGINE COOLANT.** Check engine coolant level daily. Change the coolant and flush the cooling system every 24,000 miles (38,616 km) or once every two years, whichever occurs first. Fill radiator overflow tank with an Ethylene Glycol/water mixture as specified in 0-A-548D. Service the cooling system before the specified interval if:
 - Coolant is heavily contaminated.
 - Engine overheats.
 - Oil cooler has failed allowing oil and coolant to mix.
- **8. HYDRAULIC RESERVOIR and FILTER.** Check oil level weekly and make sure oil level gage reads **F (full).** Units participating in AOAP will sample oil annually and change oil and filter as directed by AOAP. Units not participating in AOAP will change oil and filter every two years. Drain oil and refill hydraulic reservoir with OE/HDO specified for ambient operating temperature. Fill hydraulic reservoir until oil level gage reads **F (full).** Do not overfill. Replace oil filter each time oil is changed.

H-9. LUBRICATION NOTES (CONT)

9. PROPELLER SHAFT UNIVERSAL and SLIP JOINTS.

Lubricate propeller shafts with GAA every 3,000 miles (4,827 km) or once every three months, whichever occurs first, using a low pressure lubrication gun. If operating conditions are severe or abnormal, service at 1,000 miles (1,609 km) or once every month, whichever occurs first.

- UNIVERSAL JOINT:
 - A. Apply grease to both grease fittings until new grease purges from all four bearing caps.
 - B. If grease does not purge from all four bearing caps, replace the complete U-joint.
- SLIP JOINT:
 - A. Apply grease until grease appears at the vent in the welch plug.
 - B. Place your finger over the welch plug vent and add grease until grease purges from the dust seal.
 - C. If grease does not purge from the dust seal, replace propeller shaft.
- **10. AIR/HYDRAULIC POWER UNIT and BACKUP HYDRAULIC PUMP.** Change OHA oil every 24,000 miles (38,616 km) or once every two years, whichever occurs first. To service air/hydraulic power unit and backup hydraulic pump refer to vehicle paragraph number 19-7. Air Transportability Hydraulic System Service.
- 11. ALL AXLE DIFFERENTIALS. Check oil level in differentials every 3,000 miles (4,827 km). Check oil level with vehicle parked on level surface and axle differential at ambient temperature, allowing at least one hour to cool down after vehicle operation. If oil is checked when axle differential is hot, it is normal for oil to spill out of the port due to expansion from the heat. Oil level is considered full if it is within one inch of the bottom of the fill port. If oil spills from the fill port when the axle differential is cool, it is overfull. Allow oil to drain until no more drains out. If the oil level is more than one inch below the bottom of the fill port, refill axle differential with GO specified for the ambient temperature until level with bottom of fill port. Change the oil every 24,000 miles (38,616 km) or once every two years, whichever occurs first. Drain oil when hot after operation.
- **12. FRONT AXLE WHEEL END PLANETARY HUBS.** There are two lube intervals for the front axle wheel end planetary hubs.
 - a. Check and fill front axle wheel end planetary hubs every 3,000 miles (4,827 km) or once every three months, whichever occurs first, as follows:
 - (1) Position vehicle on a level surface. Allow 15 minutes for vehicle to cool before checking oil levels.
 - (2) Position fill port at 4 o'clock position. If oil flows from fill port when plug is loosened, let oil drain to correct level. If oil level is below fill port, fill hub with GO specified for the ambient temperature until oil is level with fill port.
 - b. Drain and fill front axle wheel end planetary hubs every 24,000 miles (38,616 km) or once every two years, whichever occurs first, following the repacking of the inner wheel bearings or whenever wheel end assemblies are taken apart for other maintenance as follows:
 - (1) Position vehicle on a level surface.
 - (2) Position fill port at the 6 o'clock (down) position.
 - (3) Drain hub oil (allow a minimum of 15 minutes for oil to drain down from vent tubes).
 - (4) Refill hubs with 11-13 ounces of GO specified for the ambient temperature.
- **13. TIE ROD ENDS.** Lubricate tie rod ends with GAA every 6,000 miles (9,654 km) or once every six months, whichever occurs first, using a low pressure lubrication gun, until new grease is seen purging from the boot area. If operating conditions are severe or abnormal, service at 1,000 miles (1,609 km) or once every month, whichever occurs first.

14. 11K SELF-RECOVERY WINCH (SRW) CABLE:

CAUTION

Do not use dry cleaning solvent to clean 11K Self-Recovery Winch (SRW) cables. Use of dry cleaning solvent will remove lubricant from inner strands of 11K SRW cables. Failure to comply may result in damage to equipment.

a. After each operation:

Clean and lubricate length of 11K SRW cable reeled out with new OE/HDO 30.

b. Infrequent use or in very damp conditions:

Lubricate 11K SRW cable with GW.

c. Dry or dusty conditions:

Do not lubricate 11K SRW cable.

- d. Every six months:
 - (1) Unwind entire length of 11K SRW cable (TM 9-2320-365-10).
 - (2) Soak and clean 11K SRW cable with new OE/HDO 30.
 - (3) Wipe off excess OE/HDO 30.
 - (4) Coat 11K SRW cable with GW.
 - (5) Rewind 11K SRW cable (TM 9-2320-365-10).
- **15. 11K SRW.** Check 11K SRW gear oil level every 6,000 miles (9,654 km) or once every six months, whichever occurs first. Refill 11K SRW with GO specified for ambient temperature. Change oil every 12,000 miles (19,308 km) or once every year, whichever occurs first. Use procedure (a) to check and fill oil level; use procedure (b) to change oil.
 - a. Check and fill oil level as follows:
 - (1) Shift the freespool mechanism to the disengage position so the drum can be freely rotated.
 - (2) Rotate the drum to where either plug is near the top of the 11K SRW. Remove the plug.
 - (3) Rotate the drum 90 degrees in the direction that allows the other plug to be near the top of the 11K SRW. Remove the plug.

NOTE

Oil level is full if a small amount of oil runs out of lower plug.

- (4) Add oil until a small amount of oil runs out of lower plug hole.
- (5) Apply adhesive (Item 2, Appendix D) to plug and position plug in top hole.
- (6) Rotate drum until open hole is at top.
- (7) Apply adhesive (Item 2, Appendix D) to plug and position plug in top hole.
- (8) Tighten plugs to 13-15 lb-ft (18-20 N•m).

H-9. LUBRICATION NOTES (CONT)

- b. Change oil as follows:
 - (1) Shift the freespool mechanism to the disengage position so the drum can be freely rotated.
 - (2) Rotate the drum to where either plug is near the top of the 11K SRW. Remove the plug.
 - (3) Rotate the drum 90 degrees in the direction that allows the other plug to be near the top of the 11K SRW. Remove the plug.
 - (4) Position drain pan (Item 17, Appendix C) under 11K SRW.
 - (5) Rotate the drum until either hole is straight down to the bottom of the 11K SRW. Allow the oil to drain completely.
 - (6) Rotate the drum until either hole is at top.

NOTE

Oil level is full if a small amount of oil runs out of lower plug.

- (7) Add oil until a small amount of oil runs out of lower plug hole.
- (8) Apply adhesive (Item 2, Appendix D) to plug and position plug in top hole.
- (9) Rotate drum until open hole is at top.
- (10) Apply adhesive (Item 2, Appendix D) to plug and position plug in top hole.
- (11) Tighten plugs to 13-15 lb-ft (18-20 N•m).
- **16. TOWING PINTLE.** Lubricate towing pintle with GAA every 6,000 miles (9,654 km) or once every six months, whichever occurs first, using a low pressure lubrication gun until new grease is seen purging.

WARNING

- Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well-ventilated area; avoid contact with skin, eyes, and clothes, and do not breath vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I Dry Cleaning Solvent is 100°F (38°C) and for Type II is 138°F (50°C). Failure to comply may result in serious injury or death to personnel.
- If personnel become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts skin or clothes, flush with cold water. If solvent contacts eyes, immediately flush eyes with water and get medical attention. Failure to comply may result in injury to personnel.
- **17. ENGINE CRANKCASE BREATHER.** Remove crankcase breather and clean with Dry Cleaning Solvent (SD P-D-680) (Item 71, Appendix D) or equivalent, and replace o-ring seal every 6,000 miles (9,654 km) or once every six months, whichever occurs first.
- **18. FRONT and REAR AXLE SPRING BOLT and SPRING SHACKLE.** Lubricate front and rear axle spring bolts and spring shackles with GAA every 3,000 miles (4,827 km) or once every three months, whichever occurs first, using a low pressure lubrication gun until grease appears between pins and bushings at both ends of spring bolt and spring shackle. If pins do not accept grease, remove pins. Clean and inspect pins and bushings, replace if necessary. If operating conditions are severe or abnormal, service at 1,000 miles (1,609 km) or once every month, whichever occurs first.
- **19. BATTERY POSTS.** Service batteries in accordance with TM 9-6140-200-14, every 6,000 miles (9,654 km) or once every six months, whichever occurs first.

- **20. FRONT AXLE SHAFT UNIVERSAL JOINTS and STEERING KNUCKLES.** Lubricate universal joints every 3,000 miles (4,827 km) or once every three months, whichever occurs first. Lubricate steering knuckles with GAA every 6,000 miles (9,654 km) or once every six months, whichever occurs first, using a low pressure lubrication gun. If operating conditions are severe or abnormal, service at 1,000 miles (1,809 km) or once every month, whichever occurs first.
- 21. BRAKE WEDGE and AIR CHAMBER: BRAKE SPIDER, SELF-ADJUSTER MECHANISM, AND WEDGE ASSEMBLY. Clean and lubricate (with GAA) areas of spider and hardware that contact the brake shoes. Disassemble, clean and lubricate the self-adjuster mechanism. Clean and lubricate the wedge head, rollers and ramps in the plungers. Clean and lubricate every 6,000 miles (9,654 km). If operating conditions are severe or abnormal, service at 3,000 miles (4,827 km) or once every three months, whichever occurs first, or when any of the following occur:
 - Seals are replaced
 - Plungers are removed
 - Brakes are relined
 - Grease becomes contaminated or hardened
- **22. FRONT and REAR AXLE INNER WHEEL BEARINGS.** Repack inner wheel bearings with GAA every 12,000 miles (19,308 km), when semiannual PMCS inspection of service brakes reveals oil leak from inner hub, or whenever wheel end assemblies are taken apart for other maintenance.
- 23. 11K SRW CABLE ROLLER FAIRLEADS. Lubricate with GAA every 6,000 miles (9,654 km) or once every six months, whichever occurs first, using a low pressure lubrication gun. If operating conditions are severe or abnormal, service at 1,000 miles (1,609 km) or once every month, whichever occurs first.

WARNING

- Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well-ventilated area; avoid contact with skin, eyes, and clothes, and do not breath vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I Dry Cleaning Solvent is 100°F (38°C) and for Type II is 138°F (50°C). Failure to comply may result in serious injury or death to personnel.
- If personnel become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts skin or clothes, flush with cold water. If solvent contacts eyes, immediately flush eyes with water and get medical attention. Failure to comply may result in injury to personnel.
- **24. FRONT LIFTING BEAM.** Remove left and right lifting beams and clean with Dry Cleaning Solvent (SD P-D-680) (Item 71, Appendix D) or equivalent, every 6,000 miles (9,654 km) or once every six months, whichever occurs first. Apply a light coat of GAA to lifting beams. If operating conditions are severe or abnormal, service at 1,000 miles (1,609 km) or once every month, whichever occurs first.
- 25. AIR DRYER. Service air dryer (para 23-6) every 12,000 miles (19,308 km) or annually, whichever occurs first.

APPENDIX J ADDITIONAL AUTHORIZATION LIST (AAL)

Section I. INTRODUCTION

J-1. SCOPE

This appendix lists additional items you are authorized for the support of the LMTV.

J-2. GENERAL

This list identifies items that do not have to accompany the LMTV and that do not have to be turned in with it. These items are all authorized to you by Common Tables of Allowance (CTA), Modification Table of Organization and Equipment (MTOE), Tables of Distribution and Allowances (TDA), or Joint Table of Allowance (JTA).

J-3. EXPLANATION OF LISTING

National Stock Numbers, description, and quantities are provided to help you identify and request the additional items you require to support this equipment.

Section II. ADDITIONAL AUTHORIZATION LIST

(1) National Stock Number	(2) Description (CAGE) Part Number	(3) U/M	(4) Qty Auth
6685-01-193-1733	10,000 PSI Transducer: (19207) 12258956	EA	1

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W

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Windshield Washer Reservoir and Pump
Replacement
Winch
Control Valve Assembly and Bracket
Replacement
11K Self-Recovery Winch (SRW) Cable
Replacement
11K Self-Recovery Winch (SRW) Front
Roller Fairlead Replacement
11K Self-Recovery Winch (SRW) Hoses
Replacement
11K Self-Recovery Winch (SRW) Cable
Pulleys Replacement
11K Self-Recovery Winch (SRW) Rear
Roller Fairlead Replacement 17-3
Window
M1079 Window Latch and Prop
Replacement
M1079 Window Main Frame
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Wiper Motor Replacement
Viper
Windshield Wiper and Nozzle
Replacement
Windshield Wiper Linkage
Replacement
Windshield Wiper Motor Replacement 18-4

GLOSSARY ABBREVIATIONS

A/C
AC Alternating Current
ANSI American National Standards Institute
CCW Counterclockwise
CTIS Central Tire Inflation System
CW Clockwise
ECU
EMI Electromagnetic Interference
LED Light Emitting Diode
LH
LMHC Light Material Handling Crane
MAC Maintenance Allocation Chart
NATO North Atlantic Treaty Organization
NBC Nuclear, Biological, or Chemical
NO/NC Normally Open/Normally Closed
PDP Power Distribution Panel
PMCS Preventive Maintenance Checks and Services
PTO Power Takeoff
RH
SAE Society of Automotive Engineers
SRW Self-Recovery Winch
STE/ICE-R Simplified Test Equipment/Internal Combustion Engine-Reprogrammable
TEPSS Transmission ECU Pushbutton Shift Selector
TPS
TPSS Transmission Pushbutton Shift Selector

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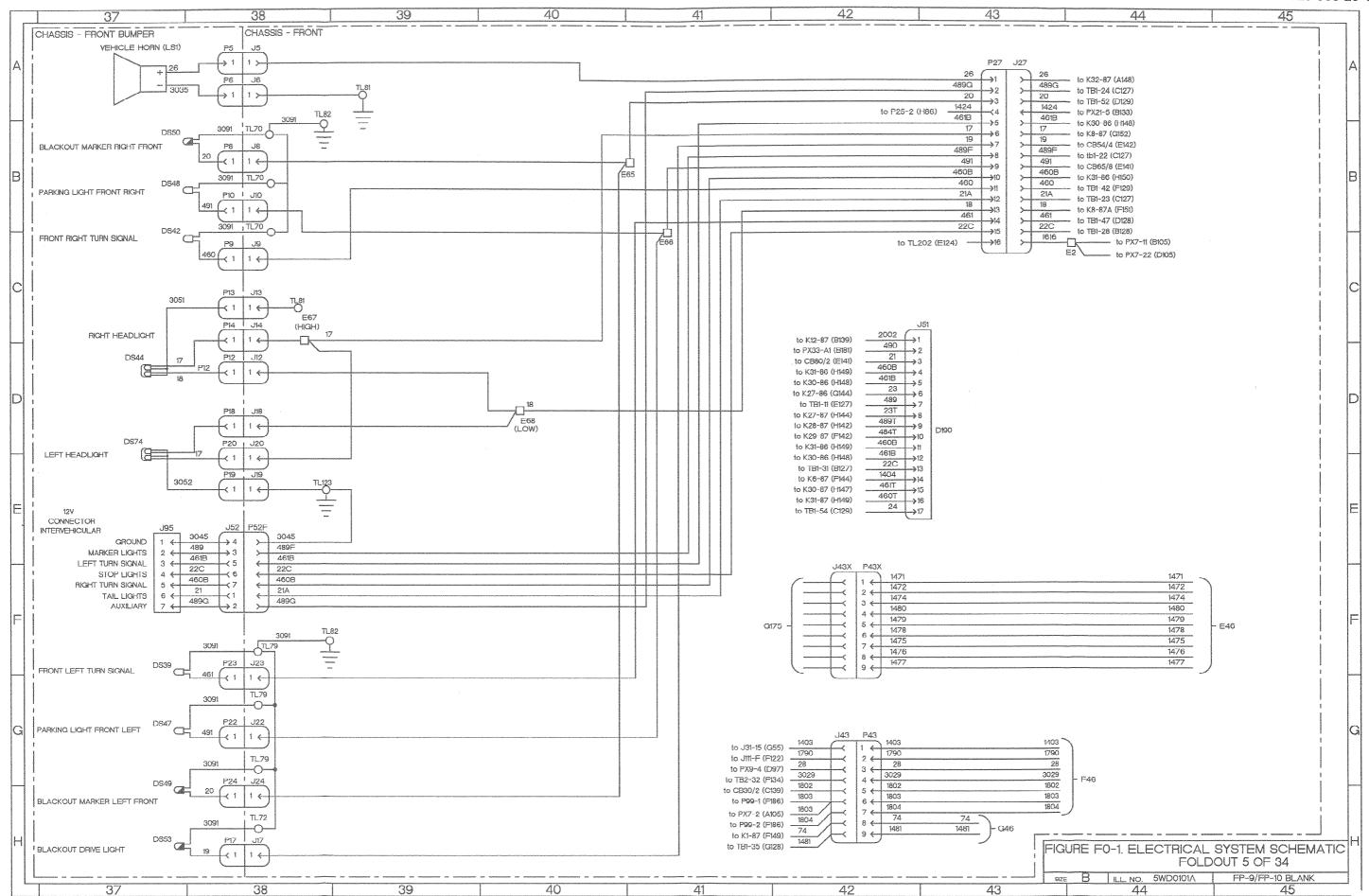
VAC Volts Alternating Current
VDC Volts Direct Current
VIM Vehicle Interface Module
WTEC II
WTEC III

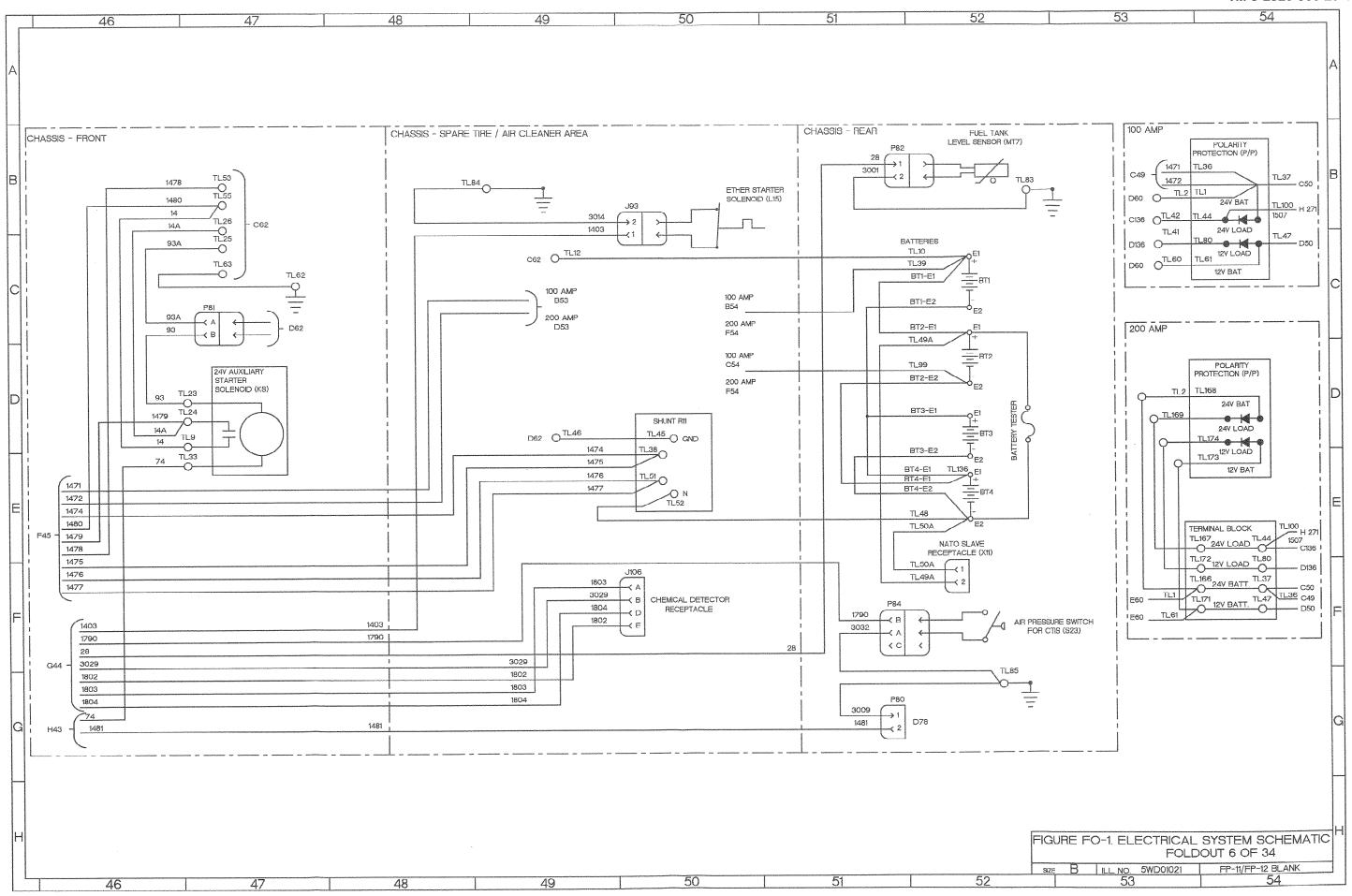
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В											B
		HORN	BLACKOUT MARKER	LAMP	DUALBEAM LAMP	GROUND	POWER LAMP	OPEN CONTACT		FLOURESCENT	
			<u> </u>	LAIVII		GNOUND	LAIVII	CONTACT	BATTERY J/	LIGHT	
				+	MT			J , P	- OR -		
c		<u> </u>	<u> </u>					J (P	P		
		TEMPERATURE SWITCH	TEMPERATURE SWITCH	MAGNETIC		NORMALLY	NORMALLY			ELECTRICAL	
		OPEN	CLOSED	PICKUP	SENSOR	OPEN	CLOSED	CONNECTOR	RECEPTACLE	OUTLET	
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		- B $-$			FL =		+/0	<u> </u>	^	0	
							METER				
		MOTOR	SOLENOID	LEVEL SENSOR	FILTER	LED	OR GAUGE	CLOSED CONTACT	DIMMER MODULE	TELEPHONE RECEPTACLE	
		CB				010		11			
			o			7				A 10 20 30 K41 H 7 40 8 50 9 60	
			<u> </u>							B 40 50 60	E
		CIRCUIT BREAKER	TWO WAY SWITCH	PUSHBUTTON	CIRCULATING PUMP	DPDT SWITCH	DPST SWITCH	PHOTOCELL	FUSE	RELAY	
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				SENSING		 GROUND		CIRCUT			at the constant
		DIODE	SPLICE	SWITCH	MOTOR	RELAY	RELAY	BREAKER	FLASHËR		-
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	1	2	3		4	5	6		7	8 8	9

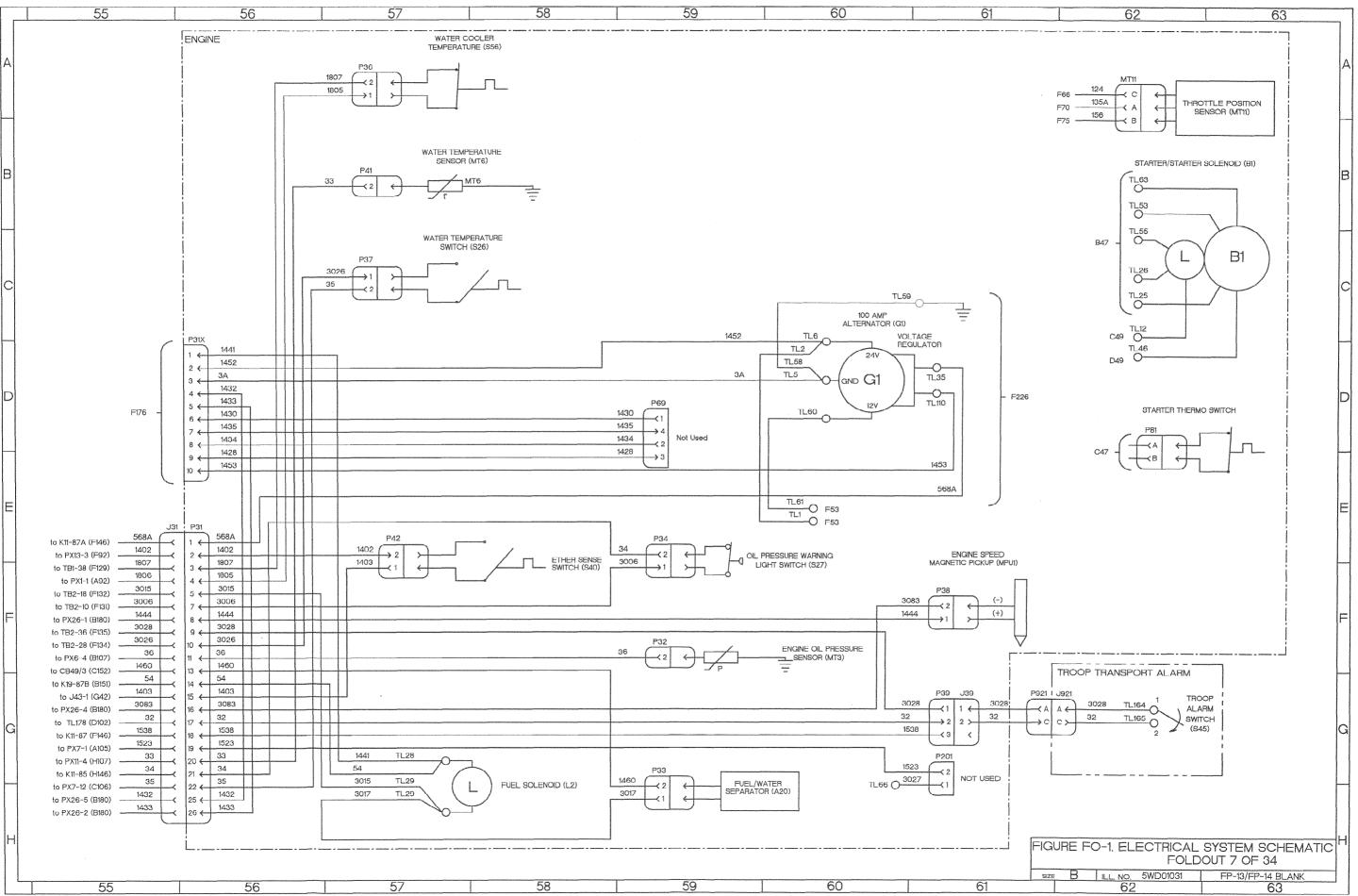
CONNECTORS	12 13 13 connectors (continued)	14 15 16	1/ 18
NUMBER ZONE SH DESCRIPTION		CONNECTORS (CONTINUED)	CONNECTORS (CONTINUED)
A C258 29 ELECTRONIC CONTROL UNIT		NUMBER ZONE SH DESCRIPTION	NUMBER ZONE SH DESCRIPTION
		P19 E38 5 LEFT HEADLIGHT	PII8 DI6I 18 CAB - DASH - LEFT - WTEC II TRANSMISSION HARNESS
D265 30 ELECTRONIC CONTROL UNIT	J153 A271 31 VAN FRONT MARKER LIGHT	P20 D38 5 LEFT HEADLIGHT	P116 E291 33 WTEC III CAB DASH RIGHT KICK PANEL
A13 A66 8 WTEC II TRANSMISSION CONNECTOR A	J154 A271 31 VAN FRONT MARKER LIGHT	P22 G38 5 PARKING LIGHT FRONT LEFT	P119 A64 8 WTEC II TRANSMISSION (A)
A13 A70 8 WTEC II TRANSMISSION CONNECTOR B	J155 B287 32 VAN CURBSIDE MARKER LIGHT	P23 F38 5 FRONT LEFT TURN SIGNAL	Pti9 A69 8 WTEC II TRANSMISSION (SERIAL # 29517497)
A13 A74 9 WTEC II TRANSMISSION CONNECTOR C	JI56 B287 32 VAN CUHBSIDE MARKER LIGHT	P24 H38 5 BLACKOUT MARKER LEFT FRONT	PH9 A73 9 WTEC II TRANSMISSION (SERIAL # 29513233)
B E258 29 ELECTRONIC CONTROL UNIT	J157 C287 32 VAN ROADSIDE MARKER LIGHT	P25 G85 10 WINDSHIELD WASHER ROTARY PUMP (B3)	P119 B169 19 CAB - DASH - LEFT - WTEC II TRANSMISSION HARNESS
F265 30 ELECTRONIC CONTROL UNIT	J158 C287 32 VAN ROADSIDE MARKER LIGHT	P27 A43 5 CHASSIS - FRONT	P125 G84 10 WINDSHIELD WASHER ROTARY PUMP (B3)
E260 29 ELECTRONIC CONTROL UNIT	J159 D287 32 VAN REAR CENTER MARKER LIGHT	P31 E56 7 ENGINE	P129 F85 10 CAB MARKER LIGHT FRONT LOWER LEFT
F266 29 ELECTRONIC CONTROL UNIT	J160 E287 32 VAN REAR CENTER MARKER LIGHT	P3IX D56 7 ENGINE	the same of the sa
D285 32 VAN 110 VAC POWER ENTRY	J161 E287 32 VAN REAR CENTER MARKER LIGHT		P129 F85 10 CAB MARKER LIGHT LEFT DOOR
12 A185 21 EMI FILTER		P32 F59 7 ENGINE OIL PRESSURE SENSOR	P131 A85 10 CAB MARKER LIGHT RIGHT DOOR
	J162 B273 31 VAN CURBSIDE BLACKOUT LIGHT	P33 H59 7 FUEL/WATER SEPARATOR	P132 B85 10 CAB MARKER LIGHT FRONT LOWER RIGHT
2 E285 32 VAN 110 VAC POWER ENTRY	J163 B274 31 VAN CURBSIDE EMERGENCY LIGHT	P34 E59 7 OIL PRESSURE WARNING LIGHT SWITCH	PI50 B272 31 VAN FRONT MARKER LIGHT
13 D205 23 AIRDROP ONLY	J164 H274 31 VAN ROADSIDE BLACKOUT LIGHT	P36 A57 7 WATER COOLER TEMPERATURE	P151 B272 31 VAN FRONT MARKER LIGHT
5 A38 5 VEHICLE HORN	J165 H275 31 VAN ROADSIDE EMERGENCY LIGHT	P37 C57 7 WATER TEMPERATURE SWITCH	PI52 B272 31 VAN FRONT MARKER LIGHT
6 A38 5 VEHICLE HORN	J166 C271 31 VAN FRONT EMERGENCY LIGHT	P38 F61 7 ENGINE SPEED MAGNETIC PICKUP	
7 A188 21 WTEC II TRANSMISSION DIMMER MODULE	J167 D287 32 VAN REAR EMERGENCY LIGHT		
8 B38 5 BLACKOUT MARKER RIGHT FRONT		P39 G61 7 ENGINE	P154 A272 31 VAN FRONT MARKER LIGHT
		P41 B57 7 WATER TEMPERATURE SENSOR	P155 B287 32 VAN CURBSIDE MARKER LIGHT
9 C38 5 FRONT RIGHT TURN SIGNAL	J204 D254 29 HEATER SWITCH	P410 E240 27 ARCTIC KIT W/PTO EQUIPPED	P156 B287 32 VAN CURBSIDE MARKER LIGHT
10 B38 5 PARKING LIGHT FRONT RIGHT	J204 B254 29 TROOP HEATER	P42 F57 7 ETHER SENSOR SWITCH	P157 C287 32 VAN ROADSIDE MARKER LIGHT
M2 D38 5 RIGHT HEADLIGHT	J205 D254 29 HEATER SWITCH	P43 G42 5 CHASSIS FRONT	PI58 C287 32 VAN ROADSIDE MARKER LIGHT
13 C38 5 RIGHT HEADLIGHT	J205 B254 29 TROOP HEATER	P43X F42 5 CHASSIS FRONT	P159 D287 32 VAN REAR CENTER MARKER LIGHT
714 C38 5 RIGHT HEADLIGHT	J206 D253 29 HEATER SWITCH	P50 E85 10 CAB MARKER LIGHT FRONT UPPER LEFT	the same of the sa
17 H38 5 BLACKOUT DRIVE LIGHT	J206 B253 29 TROOP HEATER		
118 D38 5 LEFT HEADLIGHT		P50 F206 23 LH FRONT TOP CAB MARKER LIGHT	P161 D287 32 VAN REAR CENTER MARKER LIGHT
	J207 F255 29 FURNACE ASSEMBLY	P51 D190 22 CAB DASH RIGHT POWER DISTRIBUTION PANEL	P162 B273 31 VAN CUBSIDE BLACKOUT LIGHT
	J209 C256 29 WEBASTO CONTROL UNIT	P52F E38 5 CHASSIS FRONT	P163 B274 31 VAN CURBSIDE EMERGENCY LIGHT
M9 C177 20 CAB - DASH - LEFT - UNDERDASH	J209A C230 26 PTO EQUIPPED	P52R E196 22 ALL MODELS EXCEPT WRECKER, TRACTOR, AND LONG WHEEL BASE	P164 G274 31 VAN ROADSIDE BLACKOUT LIGHT
20 D38 5 LEFT HEADLIGHT	J209A A239 27 ARCTIC KIT W/PTO EQUIPPED	P59R D196 22 ALL MODELS EXCEPT WRECKER, TRACTOR, AND LONG WHEEL BASE	P165 G275 31 VAN ROADSIDE EMERGENCY LIGHT
122 G38 5 PARKING LIGHT FRONT LEFT	J209B D230 26 PTO EQUIPPED	P54 D198 22 LEFT REAR MARKER	P166 C272 32 VAN FRONT EMERGENCY LIGHT
23 F38 5 FRONT LEFT TURN SIGNAL	J209B B239 27 ARCTIC KIT W/PTO EQUIPPED	P55 C85 10 CAB MARKER LIGHT FRONT UPPER RIGHT	
24 H38 5 BLACKOUT MARKER LEFT FRONT	J210 F222 25 CAB DASH CENTER OPTIONS PANEL		P167 D287 31 VAN REAR EMERGENCY LIGHT
25 G85 10 WINDSHIELD WASHER ROTARY PUMP (B3)			P172 E264 30 DUMP BODY CONNECTOR
	province and the second	P56 E198 22 MIDDLE REAR MARKER	P173 G271 31 VAN 12/24 VDC POWER
27 A43 5 CHASSIS - FRONT	J211 B255 29 FURNACE ASSEMBLY	P57 D85 10 CAB MARKER LIGHT FRONT UPPER MIDDLE LEFT	P200 B255 29 TROOP HEATER
131 E55 7 ENGINE	J214 F246 28 SWINGFIRE HEATER	P57 F206 23 LH FRONT TOP CAB CLEARANCE LIGHT	P200 C255 29 TROOP HEATER
31X F175 20 CAB - DASH - LEFT - UNDERDASH	J215 E230 26 PTO EQUIPPED	P58 E198 22 RIGHT REAR MARKER	P201 Q61 7 ENQINE
39 G61 7 ENGINE	J215 C239 27 ARCTIC KIT W/PTO EQUIPPED	P59 C85 10 CAB MARKER LIGHT FRONT UPPER MIDDLE RIGHT	P202 A240 27 ARCTIC KIT W/PTO EQUIPPED
143 G42 5 CHASSIS - FRONT	J225 B258 29 FURNACE ASSEMBLY		
43X F42 5 CHASSIS - FRONT	J226 E258 29 WEBASTO CONTROL UNIT		P208 F255 29 TROOP HEATER
		P60 D85 10 CAB MARKER LIGHT FRONT UPPER MIDDLE MIDDLE	P209 C256 29 FURNACE ASSEMBLY
	J230 A282 32 VAN CURBSIDE 110 VAC OUTLET	P60 E206 23 MIDDLE FRONT TOP CLEARANCE LIGHT	P210 F222 25 CAB DASH CENTER OPTIONS PANEL
50 E85 10 CAB MARKER LIGHT FRONT UPPER LEFT	J231 A283 32 VAN CURBSIDE 110 VAC OUTLET	P61 F198 22 RH COMPOSITE LIGHT	PZIO C227 26 PTO EQUIPPED
151 D42 5 CHASSIS - FRONT	J232 A284 32 VAN CURBSIDE 110 VAC OUTLET	P62 F198 22 RH COMPOSITE LIGHT	P210 A235 27 ARCTIC KIT W/PTO EQUIPPED
52 E38 5 CHASSIS - FRONT BUMPER	J233 H282 32 VAN ROADSIDE 110 VAC OUTLET	P63 G198 22 PH COMPOSITE LIGHT	P211 D238 27 ARCTIC KIT W/PTO EQUIPPED
752 B203 23 CHASSIS - FRONT	J234 H283 32 VAN ROADSIDE 110 VAC OUTLET	P64 F198 22 RH COMPOSITE LIGHT	
53 F200 23 AIRDROP ONLY	J235 H284 32 VAN ROADSIDE 110 VAC OUTLET	P65 E186 21 ROTARY WARNING LIGHT CONNECTOR	
55 C85 10 CAB MARKER LIGHT FRONT UPPER RIGHT	J236 H275 31 VAN ROADSIDE 24 VDC OUTLET		P212 E238 27 ARCTIC KIT W/PTO EQUIPPED
57 D85 10 CAB MARKER LIGHT FRONT UPPER MIDDLE LEFT			P214 G241 27 ARCTIC KIT W/PTO EOUIPPED
	J237 275 31 VAN CURBSIDE 24 VDC OUTLET	P69 D59 7 ENGINE	P215 E230 26 PTO EQUIPPED
O O MATACINETICAL DISTRIBUTED INCIDENT	J242 D271 31 VAN A/C	P71 H301 34 WTEC III TRANSFER CASE	P215 C239 27 ARCTIC KIT W/PTO EQUIPPED
60 D85 10 CAB MARKER LIGHT FRONT UPPER MIDDLE MIDDLE	J244 F271 31 VAN THERMOSTAT	P72 G301 34 WTEC III ENGINE SPEED SENSOR	P216 E229 26 PTO EQUIPPED
62 E88 10 ROTARY WARNING LIGHT CONNECTOR	J245 E271 31 VAN HEATER	P73 G300 34 WITEC III THROTTLE POSITION SENSOR	P216 B238 27 ARCTIC KIT W/PTO EQUIPPED
65 E186 21 ROTARY WARNING LIGHT CONNECTOR	J912 B124 14 CAB DASH CENTER HEATER / CTIS ECU	P74 B198 22 LH COMPOSITE LIGHT	the same of the sa
78 F185 21 CAB RADIO CONNECTOR	J912 D209 24 CAB DASH CENTER OPTIONS PANEL		
93 B50 6 CHASSIS - SPARE TIRE		P76 C198 22 LH COMPOSITE LIGHT	P217 B268 30 PTO EQUIPPED
		P77 C198 22 LH COMPOSITE LIGHT	P217 B238 27 ARCTIC KIT W/PTO EQUIPPED
	J921 G62 7 TROOP TRANSPORT ALARM	P78 B198 22 LH COMPOSITE LIGHT	P901 A209 24 CAB DASH CENTER OPTIONS PANEL
95 8206 23 ENGINE	J410 E262 30 CAB ARCTIC HEATER	P80 G51 6 CHASSIS - REAR	P902 C214 24 CAB DASH CENTER OPTIONS PANEL
99 E187 21 CHEMICAL ALARM CONNECTOR	MT9 F66 8 WTEC II TRANSMISSION (A)	P80 D78 9 AIR DRYER (EXCEPT DUMP)	P902A D214 24 CAB DASH CENTER OPTIONS PANEL
06 F50 6 CHEMICAL DETECTOR RECEPTACLE	MT9 F70 8 WTEC II TRANSMISSION (B)	P81 C47 6 CHASSIS - FRONT	P903 C212 24 CAB DASH CENTER OPTIONS PANEL
108 B222 25 CAB DASH CENTER OPTIONS PANEL	MT9 E74 9 WTEC II TRANSMISSION (C)	P8I D62 7 STARTER THERMO SWITCH	P903A D212 24 CAB DASH CENTER OPTIONS PANEL
11 E122 14 CTIS ELECTRONIC CONTROL UNIT	MTII F66 8 WTEC II TRANSMISSION (A)	P82 B51 6 FUEL TANK LEVEL SENSOR	
13 G186 21 CTIS PRESSURE TRANSDUCER			P904 C2ft 24 CAB DASH CENTER OPTIONS PANEL
		P83 B172 20 CAB - DASH - LEFT - UNDERDASH	P904A D211 24 CAB DASH CENTER OPTIONS PANEL
	MT11 F74 9 WTEC II TRANSMISSION (C)	P84 F51 6 CHASSIS - REAR	P905 A211 24 CAB DASH CENTER OPTIONS PANEL
15 C154 18 CAB - DASH - LEFT - WTEC II TRANSMISSION HARNESS	P2 A185 21 EMI FILTER	P85 A198 22 LH SIDE MARKER LIGHT	P905A B2ft 24 CAB DASH CENTER OPTIONS PANEL
6 C159 18 CAB - DASH - LEFT - WTEC II TRANSMISSION HARNESS	P2 G246 28 SWINGFIRE HEATER	P86 A198 22 LH REAR MARKER LIGHT	P906 A212 24 CAB DASH CENTER OPTIONS PANEL
7 F161 18 CAB - DASH - LEFT - WTEC I TRANSMISSION HARNESS	P3 D204 23 AIRDROP ONLY	P87 C198 22 BACKUP LIGHT	P906A B212 24 CAB DASH CENTER OPTIONS PANEL
7 B289 33 WTEC III DIAGNOSTIC CONNECTOR	P5 A38 5 VEHICLE HORN	P88 H198 22 RH SIDE MARKER LIGHT	
8 D161 18 CAB - DASH - LEFT - WTEC II TRANSMISSION HARNESS	P6 A38 5 VEHICLE HORN	P89 G198 22 RH REAR MARKER LIGHT	P908 A215 24 CAB DASH CENTER OPTIONS PANEL
19 B169 19 CAB - DASH - LEFT - WTEC II TRANSMISSION HARNESS			P908A B215 24 CAB DASH CENTER OPTIONS PANEL
	P8 B38 5 BLACKOUT MARKER RIGHT FRONT	P99 F186 21 CHEMICAL ALARM CONNECTOR	P909 A220 25 CAB DASH CENTER OPTIONS PANEL
19 C298 34 WTEC II CAB FLOOR LEFT	P9 C38 5 FRONT RIGHT TURN SIGNAL	P10 B38 5 PARKING LIGHT FRONT RIGHT	P909A B220 25 CAB DASH CENTER OPTIONS PANEL
129 F85 10 CAB MARKER LIGHT FRONT LOWER LEFT	P10 B38 5 PARKING LIGHT FRONT RIGHT	P110 E119 14 CTIS ELECTRONIC CONTROL UNIT	P910 C215 24 CAB DASH CENTER OPTIONS PANEL
129 F85 10 CAB MARKER LIGHT LEFT DOOR	P12 D38 5 RIGHT HEADLIGHT	P111 E122 14 CTIS ELECTRONIC CONTROL UNIT	P910A D215 24 CAB DASH CENTER OPTIONS PANEL
190 F202 23 12 PIN CONNECTOR	P13 C38 5 RIGHT HEADLIGHT	P112 G123 14 CAB DASH CENTER HEATER / CTIS ECU	
101 B85 10 CAB MARKER LIGHT RIGHT DOOR	P14 C38 5 RIGHT HEADLIGHT		P911 C220 25 CAB DASH CENTER OPTIONS PANEL
132 B85 10 CAB MARKER LIGHT FRONT LOWER RIGHT			
		P114 C296 33 WTEC III CAB DASH RIGHT KICK PANEL	FIGURE FO-1 ELECTRICAL SYSTEM SCHEMATIC
150 B271 31 VAN FRONT MARKER LIGHT	P18 D38 5 LEFT HEADLIGHT	P115 C290 33 WTEC III CAB DASH RIGHT KICK PANEL.	FOLDOUT 2 OF 34
151 B271 31 VAN FRONT MARKER LIGHT	P18 A177 20 CAB - DASH - LEFT - UNDERDASH	P116 C185 21 CAB - DASH - RIGHT - UNDERDASH	
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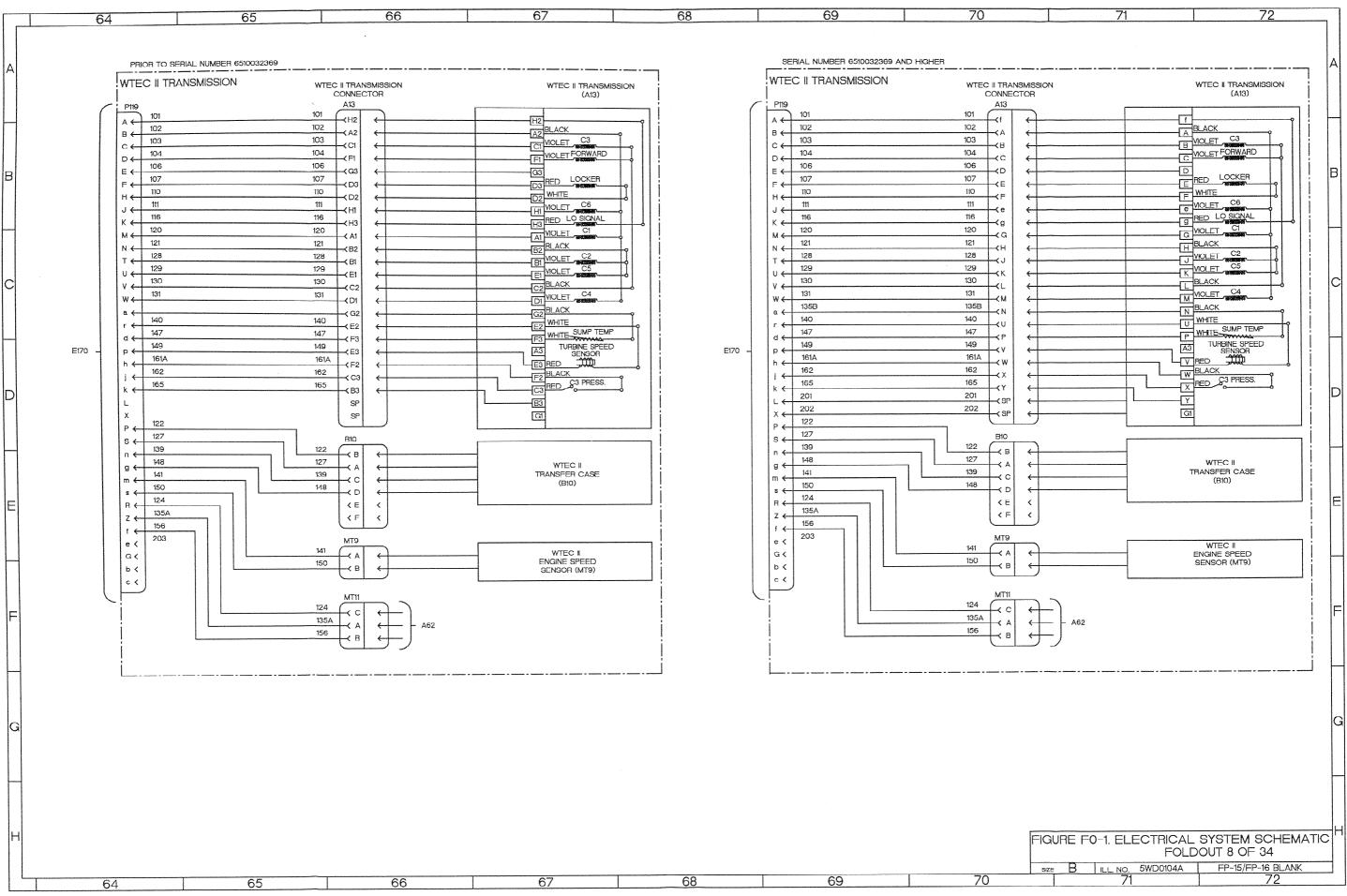
19 20	21 22	23	24 25	26 27
CONNECTORS (CONTINUED)	LIGHTS (CONTINUED)	LIGHTS (CONTINUED)	TERMINAL LUGS (CONTINUED)	TERMINAL LUGS (CONTINUED)
IUMBER ZONE SH DESCRIPTION	NUMBER JONE SH DESCRIPTION	NUMBER ZONE SH DESCRIPTION	NUMBER ZONE SH DESCRIPTION	NUMBER ZONE SH DESCRIPTION
9ffA D220 25 CAB DASH CENTER OPTIONS PANEL	DS22 0101 12 PARKING BRAKE	DS94 E288 32 VAN REAR CENTER MARKER LIGHT	TL3 C85 10 CAB MARKER LIGHT FRONT UPPER RIGHT	TL46 D49 6 SHUNT
912 B124 14 CAB DASH CENTER HEATER / CTIS ECU	DS23 C101 12 PTO ON	DS95 E288 32 VAN REAR CENTER MARKER LIGHT	TL3 D206 23 RH FRONT TOP CAB MARKER LIGHT	TL46 D62 7 STARTER/STARTER SOLENOID
913 B122 14 CAB DASH CENTER HEATER / CTIS ECU	DS24 D101 12 OIL PRESSURE	DS96 B215 24 CAB DASH CENTER OPTIONS PANEL	TL3 F256 29 FURNACE ASSEMBLY	TL47 C54 6 POLARITY PROTECTION
713 F209 24 CAB DASH CENTER OPTIONS PANEL	DS25 CI01 I2 WATER TEMPERATURE	DS96 C271 31 VAN FRONT EMERGENCY LIGHT	TL3 D258 29 WEBASTO CONTROL UNIT	TL48 E52 6 CHASSIS - REAR (REF E2)
14 A214 24 CAB DASH CENTER OPTIONS PANEL	DS27 CIOI 12 REAR BRAKE AIR	DS97 B219 25 CAB DASH CENTER OPTIONS PANEL	TL4 C85 10 CAB MARKER LIGHT FRONT UPPER	TL49A D52 6 CHASSIS - REAR (REF E1)
114A B214 24 CAB DASH CENTER OPTIONS PANEL	DS28 EIOI 12 FRONT AIR BRAKE	DS97 C271 32 VAN REAR EMERGENCY LIGHT	MIDDLE RIGHT	TL49A F52 6 NATO SLAVE RECEPTACLE
921 G62 7 TROOP TRANSPORT ALARM	DS29 D101 12 ENGINE OIL LEVEL	DS100 B213 24 CAB DASH CENTER OPTIONS PANEL	TL4 D206 23 RH FRONT TOP CAB CLEARANCE LIGHT	TL50 G121 14 CHASSIS GROUND
	DS30 F101 12 MASTER STOP	DS101 D119 14 HEATER CONTROL PANEL ILLUMINATION	TL4 F256 29 FURNACE ASSEMBLY	TL50A F52 6 NATO SLAVE RECEPTACLE
3S3 C93 11 WTEC II PUSHBUTTON SHIFT SELECTOR				
KI A92 III ENGINE FAN OFF SWITCH	DS31 D213 24 CAB DASH CENTER OPTIONS PANEL	DS108 E91 11 CAB DASH LEFT INSTRUMENT PANEL	TL4 D258 29 WEBASTO CONTROL UNIT	
(10 D107 12 CAB DASH LEFT INSTRUMENT PANEL	DS32 B101 12 CHEMICAL DETECT		TL5 D60 7 ALTERNATOR	TL52 E50 6 SHUNT
X11 G107 12 CAB DASH LEFT INSTRUMENT PANEL	DS34 C101 12 CTIS OVERSPEED	TERMINAL LUGS	TL5 D258 29 WEBASTO CONTROL UNIT	TL53 B47 6 CHASSIS - FRONT
(12 C112 IS ROTATING WARNING LIGHT SWITCH	DS35 C198 22 REAR LH COMPOSITE LIGHT	NUMBER ZONE SH DESCRIPTION	TL6 D60 7 ALTERNATOR	TL53 B62 7 STARTER/STARTER SOLENOID
(12A E112 13 CAB DASH LEFT INSTRUMENT PANEL	DS36 G198 22 REAR RH COMPOSITE LIGHT	CBI C285 32 VAN 110 VAC MAIN CIRCUIT BREAKER	TL6 D258 29 WEBASTO CONTROL UNIT	TL55 B47 6 CHASSIS - FRONT
X13 F92 11 ETHER STARTER SWITCH	DS37 B198 22 REAR LH COMPOSITE LIGHT	CB2 C284 32 VAN A/C	TL7 D258 29 WEBASTO CONTROL UNIT	TL55 C62 7 STARTER/STARTER SOLENOID
KI3A G92 II CAB - DASH - LEFT - INSTRUMENT PANEL	DS38 F198 22 REAR RH COMPOSITE LIGHT	CB3 D284 32 VAN 110 VAC POWER OUT	TL8 D85 10 CAB MARKER LIGHT FRONT UPPER	TL56 F136 16 X3 GROUND
(14 F112 13 FULL HAZARD WARNING SWITCH	DS39 F37 5 FHONT LEFT TURN SIGNAL	CB4 D284 32 VAN NOT USED	MIDDLE MIDDLE	TL57 F136 16 CAB GROUND
			TL8 E206 23 MIDDLE FRONT TOP CLEARANCE LIGHT	TL58 D60 7 ALTERNATOR
14A H112 13 CAB DASH LEFT INSTRUMENT PANEL	DS41 D101 12 TRANSMISSION OIL TEMPERATURE	CB5 E284 32 VAN BLACKOUT OVERRIDE	TL8 E258 29 WEBASTO CONTROL UNIT	
15 C115 13 MAIN LIGHT SWITCH	DS42 C38 5 FRONT RIGHT TURN SIGNAL	CB6 E284 32 VAN LIGHTS	TL9 D47 6 24V AUXILIARY STARTER SOLENOID	
17 At12 13 IGNITION SWITCH	DS43 D212 24 CAB DASH CENTER OPTIONS PANEL	CB7 E284 32 VAN 110 VAC OUTLETS		TL60 C53 6 POLARITY PROTECTION
17A C112 13 CAB DASH LEFT INSTRUMENT PANEL	DS44 D37 5 RIGHT HEADLIGHT	CB8 E284 32 VAN THERMOSTAT/FAN	TL9 E258 29 WEBASTO CONTROL UNIT	TL60 D60 7 ALTERNATOR
1A B92 11 CAB - DASH - LEFT - INSTRUMENT PANEL	DS45 C198 22 BACKUP LIGHT	CB9 E284 32 VAN 110 VAC OUTLETS	TL10 C52 6 CHASSIS - REAR (REF E1)	TL61 C54 6 POLARITY PROTECTION
2 D92 11 LAMP TEST SWITCH	DS46 D210 24 CAB DASH CENTER OPTIONS PANEL	CB10 D277 31 VAN BLACKOUT LIGHTS	TL10 E258 29 WEBASTO CONTROL UNIT	TL61 E60 7 ALTERNATOR
20 C188 21 TURN SIGNAL FLASHER	DS47 G37 5 PARKING LIGHT FRONT LEFT	CB11 D277 31 VAN EMERGENCY/BLACKOUT LIGHTS	TL11 C258 29 WEBASTO CONTROL UNIT	TL62 C47 6 CHASSIS - FRONT
21 A134 15 WIPER DELAY MODULE	DS48 B38 5 PARKING LIGHT FRONT RIGHT	CB20 C140 16 CAB RADIO	TL12 C49 6 BATTERIES	TL63 C47 6 CHASSIS - FRONT
22 A184 21 EMI FILTER	DS49 G37 5 BLACKOUT MARKER LEFT FRONT	CB21 CI49 17 WTEC II VIM STE/ICE	TL12 C62 7 STARTER/STARTER SOLENOID	TL63 B62 7 STARTER/STARTER SOLENOID
		CB22 CI49 17 FAN/ETHER	TL12 C258 29 WEBASTO CONTROL UNIT	TL66 H61 7 ENGINE (REF P201)
24 G115 13 INSTRUMENT PANEL LIGHTS DIMMER MODULE			TL13 C258 29 WEBASTO CONTROL UNIT	
25 C119 14 CAB DASH CENTER HEATER / CTIS ECU	DS51 C198 22 REAR LH COMPOSITE LIGHT			
26 B179 20 CAB - DASH - LEFT - UNDERDASH	DS52 F198 22 REAR RH COMPOSITE LIGHT	CB30 Cl39 16 CHEMICAL ALARM		TL69 E224 25 CAB DASH CENTER OPTIONS PANEL
2A E92 11 CAB - DASH - LEFT - INSTRUMENT PANEL	DS53 H37 5 BLACKOUT DRIVE LIGHT	CB35 D149 17 WTEC II VIM POWER	TL14 C258 29 WEBASTO CONTROL UNIT	TL70 B38 5 BLACKOUT MARKER RIGHT FRONT
33 B182 21 CAB - DASH - RIGHT - UNDERDASH	DS54 D84 10 CAB MARKER LIGHT FRONT UPPER MIDDLE LEFT	CB36 C147 17 HORN POWER	TL15 A198 22 LH SIDE MARKER LIGHT	TL70 B38 5 PARKING LIGHT FRONT RIGHT
33 G292 33 WTEC III TRANSMISSION PUSHBUTTON SHIFT	DS54 F206 23 LH FRONT TOP CAB CLEARANCE LIGHT	CB37 C151 17 WINDSHIELD WIPER/WASHER	TL15 C258 29 WEBASTO CONTROL UNIT	TL70 B38 5 FRONT RIGHT TURN SIGNAL
SELECTOR	DS55 D84 10 CAB MARKER LIGHT FRONT UPPER MIDDLE MIDDLE	CB38 D147 17 ROTATING BEACON	TL16 A198 22 LH REAR MARKER LIGHT	TL71 A85 10 CAB MARKER LIGHT RIGHT DOOR
34 E188 21 FRONT AIR PRESSURE METER	DS55 E206 23 MIDDLE FRONT TOP CLEARANCE LIGHT	CB39 C146 17 TRAILER BO STOP	TL16 C258 29 WEBASTO CONTROL UNIT	TL72 H38 5 BLACKOUT DRIVE LIGHT
4 F97 II FAN SOLENOID	DS56 C84 10 CAB MARKER LIGHT FRONT UPPER MIDDLE RIGHT	CB40 CI50 17 CTIS COOLER	TL17 C198 22 BACKUP LIGHT	TL73 B86 10 CAB MARKER LIGHTS
	The second contract of the second contract of	CB41 C142 16 TRAILER REAR LIGHTS POWER	The state of the s	TL74 D86 10 CAB MARKER LIGHTS
5 B97 11 REAR AIR PRESSURE METER	DS56 D206 23 RH FRONT TOP CAB CLEARANCE LIGHT	CB42 C142 16 BO MARKER LIGHTS POWER	for a second process of the second process o	TL74 E204 23 AIRDROP ONLY
6 B107 12 CAB DASH LEFT INSTRUMENT PANEL	DS57 C84 10 CAB MARKER LIGHT FRONT UPPER RIGHT		TL18 C198 22 LONG WHEEL BASE	The same and the s
7 A104 12 CAB DASH LEFT INSTRUMENT PANEL	DS57 D206 23 RH FRONT TOP CAB MARKER LIGHT	CB43 C143 16 REAR COMPOSITE LIGHTS	TI_18 C258 29 WEBASTO CONTROL UNIT	TL75 F87 10 CAB MARKER LIGHTS
8 G102 12 CAB DASH LEFT INSTRUMENT PANEL	DS58 E84 10 CAB MARKER LIGHT FRONT UPPER LEFT	CB43 D289 33 WTEC III ECU	TL19 H198 22 RH SIDE MARKER LIGHT	TL76 D229 26 PTO EOUIPPED
8 F289 33 WTEC III SPEEDOMETER SIGNAL	DS58 F206 23 LH FRONT TOP CAB MARKER LIGHT	CB44 C143 16 REAR COMPOSITE LIGHTS	TL19 C258 29 WEBASTO CONTROL UNIT	TL79 F38 5 FRONT LEFT TURN SIGNAL
9 D97 II FUEL LEVEL METER	DS59 B84 10 CAB MARKER LIGHT RIGHT DOOR	CB45 C139 16 FUEL PREHEAT	TL20 G198 22 RH REAR MARKER LIGHT	TL79 G38 5 PARKING LIGHT FRONT LEFT
D263 30 CAB ARCTIC HEATER	DS60 F84 10 CAB MARKER LIGHT FRONT LOWER LEFT	CB48 C140 16 ARCTIC CAB/ENGINE KILL	TL20 C258 29 WEBASTO CONTROL UNIT	TL79 G38 5 BLACKOUT MARKER LEFT FRONT
A250 30 CAB ARCTIC HEATER	DS61 A84 10 CAB MARKER LIGHT RIGHT DOOR	CB49 CI5I 17 PTO POWER	TL21 G198 22 RH COMPOSITE LIGHT	TL80 C54 6 POLARITY PROTECTION
D264 30 CAB ARCTIC HEATER	DS62 F84 10 CAB MARKER LIGHT LEFT DOOR	CB50 F256 29 MAIN POWER CURCUIT BREAKER SWITCH	TL22 D85 10 CAB MARKER LIGHTS	TL80 F54 6 200 AMP
B250 30 CAB ARCTIC HEATER	D963 B210 24 CAB DASH CENTER OPTIONS PANEL	CB/50 C146 17 SWINGFIRE PUMP POWER	TL22 E206 23 LH FRONT TOP CAB CLEARANCE LIGHT	TL81 A39 5 CHASSIS - FRONT (REF JI3)
E263 30 CAB ARCTIC HEATER	DS64 B212 24 CAB DASH CENTER OPTIONS PANEL	CB53 D140 16 CAB - DASH - RIGHT - POWER DISTRIBUTION PNL	TL23 D47 6 24V AUXILIARY STARTER SOLENOID	TL81 C38 5 CHASSIS - FRONT
			TL24 D47 6 24V AUXILIARY STARTER SOLENOID	TL82 A38 5 CHASSIS - FRONT
	DS65 A198 22 LH SIDE MARKER LIGHT		The second secon	
D263 30 CAB ARCTIC HEATER	DS66 A198 22 LH REAR MARKER LIGHT	CB61 D153 17 CAB - DASH - RIGHT - POWER DISTRIBUTION PNL	TL25 C47 6 CHASSIS - FRONT	
C250 30 CAB ARCTIC HEATER	DS67 H198 22 RH SIDE MARKER LIGHT	CB62 DI53 17 CAB - DASH - RIGHT - POWER DISTRIBUTION PNL	TL25 C62 7 STARTER/STARTER SOLENOID	TL83 B52 6 FUEL TANK LEVEL SENSOR
	DS68 G198 22 RH REAR MARKER LIGHT	CB63 D151 17 CAB - DASH - RIGHT - POWER DISTRIBUTION PNL	TL26 C47 6 CHASSIS - FRONT	TL84 B49 6 CHASSIS - SPARE TIRE (REF J93)
LIGHTS	DS69 D198 22 LEFT REAR MARKER	CB64 D151 17 CAB - DASH - RIGHT - POWER DISTRIBUTION PNL	TL26 C62 7 STARTER/STARTER SOLENOID	TL85 G52 6 CHASSIS - REAR
MBER ZONE SH DESCRIPTION	DS70 E198 22 MIDDLE REAR MARKER	CB65 D140 16 PARKING LIGHTS	TL27 E85 10 CAB MARKER LIGHT FRONT UPPER RIGHT	TL86 C86 10 CAB MARKER LIGHTS
B257 29 POWER LAMP	DS71 E198 22 RIGHT REAR MARKER	CB66 D143 I6 BO MARKER POWER	TL27 F206 23 CAB MARKER LIGHTS FRONT UPPER RIGHT	TL86 D204 23 AIRDROP ONLY
2 B257 29 POWER LAMP	DS72 B198 22 REAR LH COMPOSITE LIGHT	CB67 DI39 16 MARKER LIGHTS	TL28 G57 7 FUEL SOLENOID	TL87 F86 10 CAB MARKER LIGHTS
10 D96 11 CAB DASH LEFT INSTRUMENT PANEL	DS73 FI98 22 REAR RH COMPOSITE LIGHT	CB66 C152 17 CAB - DASH - RIGHT - POWER DISTRIBUTION PNL.	TL29 H57 7 FUEL SOLENOID	TL92 F195 22 ALL MODELS EXCEPT WRECKER, TRACT
2 G106 12 CAB DASH LEFT INSTRUMENT PANEL	DS74 D37 5 LEFT HEADLIGHT	CB70 D146 17 IGNITION/MAIN LIGHT SWITCH	TL30 D198 22 LEFT REAR MARKER	AND LONG WHEEL BASE
53 F96 11 CAB DASH LEFT INSTRUMENT PANEL		CB71 D149 17 HAZARD/FLASHER WORKLIGHTS	TL31 E198 22 MIDDLE REAR MARKER	TL93 GI94 22 ALL MODELS EXCEPT WRECKER, TRACTO
94 B96 11 CAB DASH LEFT INSTRUMENT PANEL				AND LONG WHEEL BASE
	DS76 H274 31 VAN ROADSIDE BLACKOUT LIGHT			
S5 B106 12 CAB DASH LEFT INSTRUMENT PANEL	DS78 A274 31 VAN CURBSIDE EMERGENCY LIGHT	CB73 D150 17 BACK-UP LIGHT POWER	TL33 E47 6 24V AUXILIARY STARTER SOLENOID	
GIO1 12 CAB DASH LEFT INSTRUMENT PANEL	DS79 H275 31 VAN ROADSIDE EMERGENCY LIGHT	CB74 D150 17 CAB - DASH - RIGHT - POWER DISTRIBUTION PNL	TL35 D61 7 ALTERNATOR	
57 D106 12 CAB DASH LEFT INSTRUMENT PANEL	DS80 H284 32 VAN ROADSIDE FLOURESCENT LIGHT	CB76 D143 16 BO STOP RELAY POWER	TL36 B54 6 POLARITY PROTECTION	TL97 B88 10 CHEMICAL ALARM CONNECTOR
8 C91 11 CAB DASH LEFT INSTRUMENT PANEL	DS81 H286 32 VAN ROADSIDE FLOURESCENT LIGHT	CB77 C152 17 ENGINE INSTR POWER	TL37 F54 6 POLARITY PROTECTION	TL98 B88 10 CHEMICAL ALARM CONVECTOR
59 B101 12 DUMP BODY UP	DS82 A286 32 VAN CURRSIDE FLOURESCENT LIGHT	CB78 D147 17 HEADLIGHTS	TL37 C54 6 POLARITY PROTECTION	TL99 D52 6 CHASSIS - REAR (REF E2)
310 E111 13 CAB DASH LEFT INSTRUMENT PANEL	DS83 A284 32 VAN CURBSIDE FLOURESCENT LIGHT	CB79 C150 17 WTEC II VIM POWER	TL38 E50 6 SHUNT	TL100 E54 6 POLARITY PROTECTION
III G9I II CAB DASH LEFT INSTRUMENT PANEL	DS84 B271 31 VAN FRONT MARKER LIGHT	CB80 D142 16 TAILLIGHTS	TL39 C52 6 CHASSIS - REAR (REF EI)	TL:101 B239 27 ARCTIC KIT W/PTO EQUIPPED
512 HIII 13 CAB DASH LEFT INSTRUMENT PANEL	DS85 B271 31 VAN FRONT MARKER LIGHT	TLI B54 6 POLARITY PROTECTION	TL41 C53 6 POLARITY PROTECTION	TL102 F239 27 ARCTIC KIT W/PTO EQUIPPED
	f framework to be a first of the contract of t	TLI E60 7 ALTERNATOR		TL103 G239 27 ARCTIC KIT W/PTO EQUIPPED
	DS86 B271 31 VAN FRONT MARKER LIGHT			TL110 D61 7 ALTERNATOR
S14 B101 12 LEFT TURN SIGNAL	DS87 A271 31 VAN FRONT MARKER LIGHT	TL1 F254 29 TROOP HEATER	TL44 B54 6 POLARITY PROTECTION	
BIOI 12 RIGHT TURN SIGNAL	DS88 A271 31 VAN FRONT MARKER LIGHT	TL1 D258 29 WEBASTO CONTROL UNIT	TL44 E54 6 POLARITY PROTECTION	TLIII D230 26 PTO EQUIPPED
S16 E101 12 HIGH BEAM	DS89 B288 32 VAN CURBSIDE MARKER LIGHT	TL2 B53 6 POLARITY PROTECTION	TL45 D50 6 SHUNT	TL123 E38 5 CHASSIS - FRONT (REF J19)
SI7 D119 14 HEATER CONTROL PANEL ILLUMINATION	DS90 B288 32 VAN CURBSIDE MARKER LIGHT	TL2 D60 7 ALTERNATOR	protessamalastoners	
S18 A208 24 CAB DASH CENTER OPTIONS PANEL	DS91 C288 32 VAN ROADSIDE MARKER LIGHT	TL2 F254 29 TROOP HEATER	ĮFIGUF	IE FO-1. ELECTRICAL SYSTEM SCHEM
	The state of the s	TL2 D258 29 WEBASTO CONTROL UNIT	esse	FOLDOUT 3 OF 34
SI9 E101 12 RADIATOR FAN OFF	I DS92 C288 32 VAN ROADSIDE MARKER LIGHT			
919 E101 12 RADIATOR FAN OFF 921 C101 12 EMERGENCY BRAKE	DS92	TL2 D53 6 POLARITY PROTECTION (P/P)		B ILL NO. 5WD01L3A FP-5/FP-6 BLANK

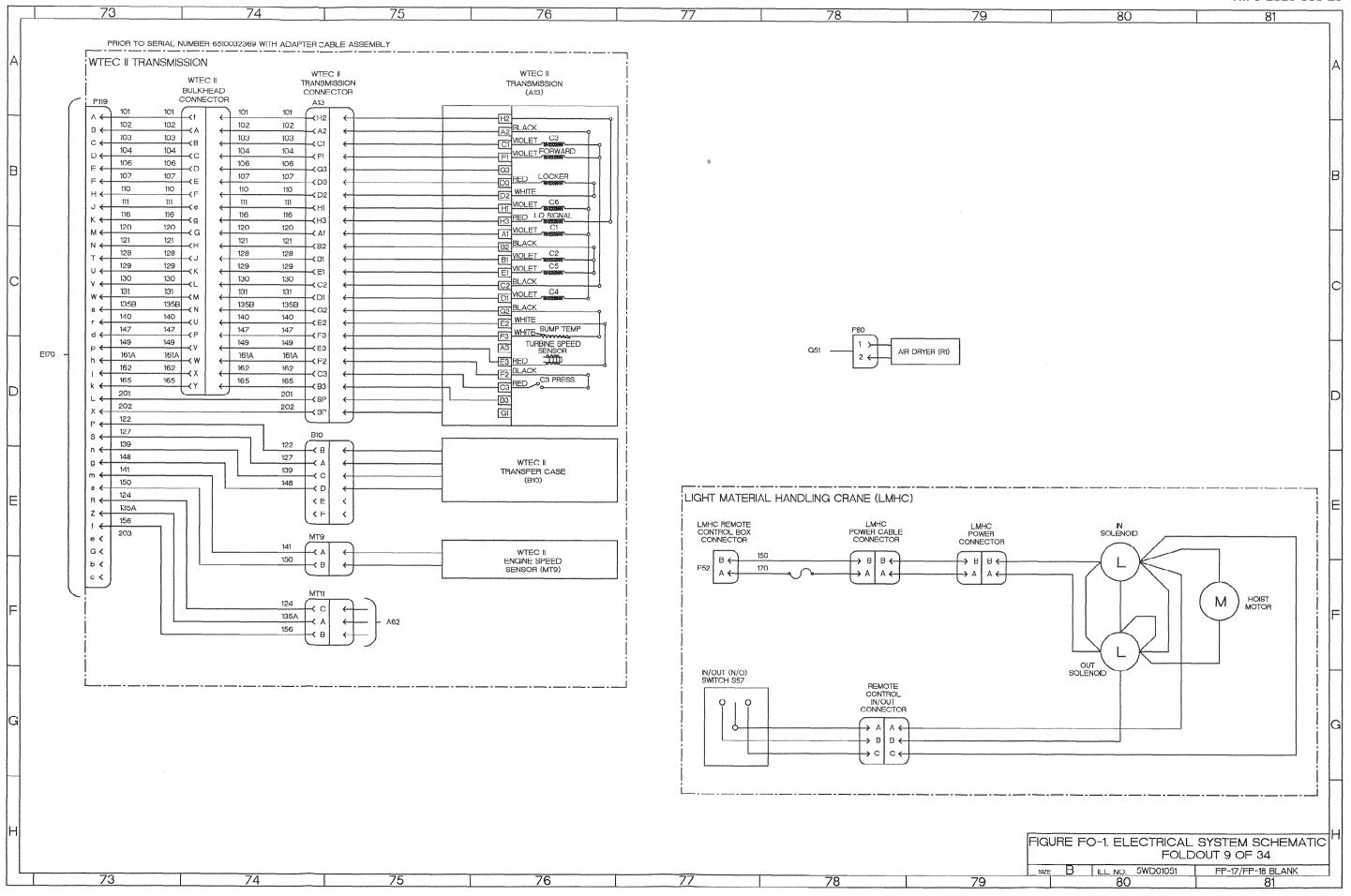
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-		WINDSHIELD WASHER ROTARY PUMP (B3)	S27	mangaran arangan ang anatawa	OIL PRESSURE WARNING LIGHT SWITCH	KS	- Andrewson - Andr	6 24V AUXILIARY STARTER SOLENOID	D28	-	6 CAB - DASH - RIGHT - POWER DISTRIBUTION PN	and become		30 ARTIC CAB HEATER
26	E126 14	PARKING BRAKE SWITCH	S29	G177 20	SWITCH/REAR AIR PRESSURE TRANSMITTER	L1	E189	21 FAN SOLENOID	D3A	B138 1	6 CAB - DASH - RIGHT - POWER DISTRIBUTION PNI	F210A	E263	30 ARTIC CAB HEATER
0	F85 10	CAB MARKER LIGHTS	S31	A216 24	ARCTIC TROOP HEATER SWITCH	L2	H57	7 FUEL SOLENOID	D3B	B138 1	6 CAB - DASH - RIGHT - POWER DISTRIBUTION PNI	_ F110A	E263	30 ARTIC CAB HEATER
	A85 10	CAB MARKER LIGHTS	S32	F288 32	VAN LIGHTS ON/OFF SWITCH	L3	D269	30 PTO SOLENOID	EI	C52 6	BATTERY	GI	D60	7 ALTERNATOR
3	7	CAB MARKER LIGHTS	S33	E277 31	VAN BLACKOUT SWITCH	L4	E233	26 WINCH IN SOLENOID	EI	-	BATTERY	MPUI	F61	7 ENGINE SPEED MAGNETIC PICKUP
4		CAB MARKER LIGHTS	934	and a second	VAN BLACKOUT SWITCH	14	and a construction of	26 SOLENOID	EI	of annual consistency was	BATTERY	МТЗ	and the second	7 ENGINE OIL PRESSURE SENSOR
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0	i de construente de la construente del la construente del la construente de la construente de la construente de la construente de la construente de la construente de la construente de la construente de la construente de la construente de la construente de la construente de la construente de la construente de la construente de la construente de la const	SENSOR/FRONT AIR PRESSURE TRANSMITTER	S35		VAN BLACKOUT OVERRIDE SWITCH	L4	nandroomerania	27 WINCH IN SOLENOID	EI	[E52] (BATTERY	MT4		20 SENSOR/FRONT AIR PRESSURE TRANSMITTE
	G177 20	SENSOR/REAR AIR PRESSURE TRANSMITTER	S40	F58 7	ETHER SENSOR SWITCH	L4	D241	27 WINCH IN SOLENOID	E2	C43	CHASSIS FRONT BUMPER (REF J27)	MT5	G177	20 SENSOR/REAR AIR PRESSURE TRANSMITTER
2	C179 20	STOPLIGHT SWITCH	S45	E62 7	TROOP ALARM SWITCH	L5	D233	26 SOLENOID	E2	C52 6	BATTERY	MT6	B57	7 WATER COOLER TEMPERATURE
3	of management of the party of t	STOPLIGHT SWITCH	S45	G62 31	VAN FAN ON/OFF SWITCH	L5	232	26 SOLENCID	E2		BATTERY	T MT7	B52	6 FUEL TANK LEVEL SENSOR
PTC ALCOHOLD	7		- Committee of the Comm	und mariement de la company de		1.5				-		med become		7 THROTTLE POSITION SENSOR
4	7	STOPLIGHT SWITCH	S56	moly annual annual procession and the second	WATER TEMPERATURE SWITCH	127		27 WINCH OUT SOLENOID	E2	-	BATTERY	MTI		
4	D179 20	STOPLIGHT SWITCH	S57	[G77 9	LMHC IN/OUT SWITCH	LD.		27 WINCH OUT SOLENOID	E2	E52 6	BATTERY	NS		21 WTEC II VEHICLE INTERFACE MODULE
5	D179 20	STOPLIGHT SWITCH				L15	B51	6 CHASSIS - SPARE TIRE	E3	H148 1	7 CAB - DASH - RIGHT - POWER DISTRIBUTION PNI	. NS	F183	21 WTEC II VEHICLE INTERFACE MODULE
6	F177 20	SWITCH/FRONT AIR PRESSURE TRANSMITTER			GAGES	L16	E239	27 WATER SOLENOID	E4	H150 1	7 CAB - DASH - RIGHT - POWER DISTRIBUTION PNI	P/P	B54	6 POLARITY PROTECTION
 7	3	SWITCH/REAR AIR PRESSURE TRANSMITTER	NUMBER	ZONE SH	DESCRIPTION	L17		27 WATER PUMP	E5	-	7 CAB - DASH - RIGHT - POWER DISTRIBUTION PNI	Name of the last o		6 POLARITY PROTECTION
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8	alfrancia con constructivo de la construcción de la construcción de la construcción de la construcción de la c	START INHIBIT PUSHBUTTON	M2	manifest to the contract of th	VOLTMETER		miles maries de	9 LMHC IN SOLENOID	E14	[E794 2	2 ALL MODELS EXCEPT WRECKER, TRACTOR, AND	I All		6 SHUNT
9	[E136 16	START NHIBIT PUSHBUTTON	M3	B106 12	ENGINE OIL PRESSURE METER			9 LMHC OUT SOLENOID	No.	CANADA CA	LONG WHEEL BASE	J IM	D79	9 AIR DRYER
0	H102 12	AUDIBLE ALARM	M4	F96 11	FRONT AIR PRESSURE METER		A304	34 WTEC III A SOLENOD	E15	E197 2	2 ALL MODELS EXCEPT WRECKER, TRACTOR, AND	TBI	B257	29 WEBASTO CONTROL UNIT
1	ng menerata ana ana apara ana ana an	AUDIBLE ALARM	M5	- Commission Commissio	REAR AIR PRESSURE METER		B304 I	34 WTEC III H SOLENOD	MAATAN O	CONCUENT CONCUENT	LONG WHEEL BASE	TBI	C128	15 CAB DASH RIGHT POWER
		STARTER PUSHBUTTON	M6	and an experience of the control of	WATER TEMPERATURE METER	-		34 WTEC III N SOLENOID	Etc	107	and from the union and other common and an analysis and an analysis are a second and the common and the common		and the second second	15 CAB - DASH - RIGHT - POWER DISTRIBUTION
2		4	SOMEONIA DO CONTROL COMPANION AND ADDRESS OF THE PARTY OF	-december		-			E16	AB/	22 ALL MODELS EXCEPT WRECKER, TRACTOR, AND	1		1
3	1	STARTER PUSHBUTTON	M7		FUEL LEVEL METER			34 WTEC III J SOLENOID	-	<u> </u>	LONG WHEEL BASE	TB2		29 WEBASTO CONTROL UNIT
4	G62 7	ENGINE (REF J921)	M8	G102 12	SPEEDOMETER	-	E304	34 WTEC III G SOLENOID	E17	G195	2 ALL MODELS EXCEPT WRECKER, TRACTOR, AND) X1	C137	16 24 VDC
5	G62 7	ENGINE (REF J921)	M9	A210 24	TACHOMETER	The state of the s	F304	34 WTEC III E SOLENOID	NO.	execution constitution (LONG WHEEL BASE	X11	F52	6 NATO SLAVE RECEPTACLE
3	- 	TERMINAL BLOCK	вичестностинованием	antennementalismose				34 WTEC III D SOLENOID	E18	Glad	2 ALL MODELS EXCEPT WRECKER, TRACTOR, AND	X2	war and the same of the same of	16 24 VDC
		TERMINAL BLOCK	Do	ELAYS		-		34 WTEC III C SOLENOID	- 70	THE REAL PROPERTY.	3	X3	anamana di manamanana	16 CROUND
7				-usprovenservosanyus-coro	The state of the s				-	- 1	LONG WHEEL BASE		and the second	La caración de come con caración de contractor de contract
9		POLARITY PROTECTION (P/P)	NUMBER		DESCRIPTION			34 WTEC III B SOLENOID	E19	F194	22 ALL MODELS EXCEPT WRECKER, TRACTOR, AND			16 24 VDC
0	F248 28	SWINGFIRE HEATER	K1	F256 30	GROUND RELAY		H304	34 WTEC III A SOLENOID		- Contract	LONG WHEEL BASE	X7	D137	16 24 VDC
	F54 6	TERMINAL BLOCK	K1	-	STARTER RELAY				E20	E194 1	2 ALL MODELS EXCEPT WRECKER, TRACTOR, AND	PHONE	1 A285	32 VAN PHONE 1
2	nije on samme se se men op in en men om	TERMINAL BLOCK	K1		GROUND RELAY			HORNS AND ALARMS	0.00	ACRES OF THE PERSON NAMED IN COLUMN 1	LONG WHEEL BASE	1 }	marine francisco	32 VAN PHONE 2
CONTRACTOR NAMED IN	of narrowanier and narrows		171	anjantaranajana		ARIA IDEM	and a second			tour !	oconfinenciamentations and the second and the contract of the second contract of the contract of the contract of the second contract of the contract of the second contract of the contract of	and femalescensor	www.compressor.com	9 LIGHT MATERIAL HANDLING CRANE (LMHC)
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€ + noonneeman	D54 6	POLARITY PROTECTION (P/P)	K2	D259 29	HEATER MOTOR RELAY	LS1	A37	5 VEHICLE HORN			LONG WHEEL BASE		=//	9 LMHC REMOTE CONTROL BOX
3	D290 33	WTEC III PRESSURE SWITCH GROUND	K2	E266 30	HEATER MOTOR RELAY	LS2	H101	12 AUDIBLE ALARM	E22	B86 1	0 CAB MARKER LIGHTS	200	E77	9 LMHC POWER CABLE
1	F125 14	PARKING BRAKE SWITCH	K2	B143 16	CONTROL PANEL RELAY	***************************************		онностой спорет споло осторого осторого не настропосторие о предменя на спорет простот просторого на операцион Спорет сторого на сторого осторого на сторого	E23	D86	O CAB MARKER LIGHTS	7 [G78	9 LMHC REMOTE CONTROL IN/OUT
2	alfree-co-construction and case co-co	PARKING BRAKE SWITCH	КЗ	and an action are a section of the contract of	CONTROL THERMOSTAT RELAY	-		MOTORS	E23		23 AIRDROP ONLY		ana ang mana ang mana	34 WTEC III TRANSMISSION PRESSURE SWITCH
-				maja-access-expression-dynamics	EQUALITY CONTRACTOR CO	A H II ITTO	Taniel		-	of-more market			anneces and a series of the se	
20	÷	PTO EQUIPPED	K3		CONTROL THERMOSTAT RELAY	NUMBER	минфоноприянностинафи	SH DESCRIPTION	E24	of consensation and con-	O CAB MARKER LIGHTS	_	-	34 WTEC III OUTPUT SPEED SENSOR
0	C241 27	ARCTIC KIT W/PTO EQUIPPED	K4	D260 29	IGNITION RELAY	B2	A183	21 WINDSHIELD WIPER MOTOR	E24	D205 1	23 AIRDROP ONLY		areaseas) wood on the second	34 WTEC III ENGINE SPEED SENSOR
			K4	E266 30	IGNITION RELAY	B4	Cfl8	14 FAN MOTOR	E25	F86	O CAB MARKER LIGHTS		E304	34 WITEC III SUMP TEMP SENSOR
		SWITCHES	K5	and a commence of the commence of	FLAME CONTROL RELAY	Section Control Contro	оправления	9 LMHC HOIST MOTOR	E60	nije mazuwa zonazowajece	24 VDC VAN POWER			44 PM (1997) - 1997 -
BER	ZONFISH	DESCRIPTION	K5	and a second	FLAME CONTROL RELAY	l.		account in super-wave wave wave wave wave wave and a constraint of the super-wave wave wave wave wave wave wave wave	E65	of account of the	CHASSIS - FRONT			TRANSMISSION
TO COMPANY TO COMPANY	n francos na na na na na na na na na na na na na	COLUMN SWITCH	K6		STOPLIGHT RELAY			BATTERYS	E66	-	CHASSIS - FRONT	NIMPE		SH DESCRIPTION
sommerwise.	of an exercise and the second		THE RESIDENCE OF THE PARTY OF T	and commentenced conserv		A 11 12 4 1 1	1==:=	BATTERYS	-	d		A10	unamentifetatationementee	21 WTEC I VEHICLE INTERFACE MODULE
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nonnenne	D114 13	MAIN LIGHT SWITCH	K8	[GI51 17	HEADLIGHT LO/HI-BEAM RELAY	BT1	C52	6 BATTERY	E67	D38 1	CHASSIS - FRONT	A13	B67	
50/100360000	B111 13	IGNITION SWITCH	K9	A142 16	HAZARD FLASHER BO OVERIDE	BT2	D52	6 BATTERY	E68	D40 1	CHASSIS - FRONT	A13	A72	8 WTEC II TRANSMISSION At3 (SERIAL # 295174
potrontonies	A91 11	ENGINE FAN OFF SWITCH	K10	magazina manana (manana	STOP HAZARD FLASHER RELAY	BT3	and a second	6 BATTERY	E70	of warmen consistent of the	26 PTO EOUIPPED	A13	A76	9 WTEC II TRANSMISSION At3 (SERIAL # 295132
4	francisco considerante	WINCH ON OFF	KII	market and the second			vajavenemenijo			uljuranom manalen		Н Титэ	nament francouserm	8 WTEC II ENGINE SPEED SENSOR (SERIAL # :
TOS MARKING WINDS	openesses and a series of the		IVII	anjaranananjaran	ALTERNATOR EXCITATION RELAY	BT4	1505	6 BATTERY	E70	of commonweal per	27 ARCTIC KIT W/PTO EQUIPPED	- Inches	-	\$
5		WINCH IN-OUT	K12	radjamentarian karinga	WORKLIGHT RELAY	,			E71	afronnersonadjo	20 CAB - DASH - LEFT - UNDERDASH	MT9	mannestymentermenter	8 WTEC II ENGINE SPEED SENSOR (SERIAL # :
6	[F91]11	ETHER STARTER SWITCH	K13	18149 17	ROTATING BEACON BO OVRD RELAY	-		MISCELLANEOUS	E73	G238	27 ARCTIC KIT W/PTO EQUIPPED	J MT9	пичения:Динический висте	9 WTEC I ENGINE SPEED SENSOR (SERIAL # :
i	D91 11	LAMP TEST SWITCH	K15	B140 16	AUXILIARY COOLER RELAY	NUMBER	ZONE	SH DESCRIPTION	E74	B238	27 ARCTIC KIT W/PTO EQUIPPED	MTII	A62	7 THROTTLE POSITION SENSOR
	africani and a second contraction of the sec	ROTATING WARNING LIGHT SWITCH	K19		START INHIBIT RELAY	10A		21 WTECH VEHICLE INTERFACE MODULE	E76	afaran marana far	27 ARCTIC KIT W/PTO EQUIPPED	REV	C183	21 WTEC II VEHICLE INTERFACE MODULE
	J	FULL HAZARD WARNING SWITCH	K20		MARKER LIGHTS RELAY	-		21 WTECH VEHICLE INTERFACE MODULE	position and the party of the p	diameter and the second	2 CAB DASH LEFT INSTRUMENT PANEL	- IRW	energenis productive constructive	21 WTEC II VEHICLE INTERFACE MODULE
2			CONTRACTOR		-L	10A			E88	i december		and ferromenous	-	
5	elementation of the second	SWINGFIRE PUMP SWITCH	K24	male en en en en en en en en en en en en en	CRANKING LOCKOUT RELAY	A2		14 CTIS ELECTRONIC CONTROL UNIT	E89		2 CAB DASH LEFT INSTRUMENT PANEL	S02	no en en en en en en en en en en en en en	21 WTEC II VEHICLE INTERFACE MODULE
- negative	B210 24	PTO ON/OFF SWITCH	K25	8292 33	WTEC III REVERSE WARNING RELAY	A3	G114	13 INSTRUMENT PANEL LIGHTS DIMMER MODULE	E90	F298	34 WTEC III TRANSMISSION HARNESS	803	anno confrancione con con	21 WTEC I VEHICLE INTERFACE MODULE
	A213 24	BLACKOUT OVERRIDE SWITCH	K26	8290 33	WTEC III NEUTRAL START RELAY	A5	A135	15 WPER DELAY MODULE	E91	D298	34 WTEC III TRANSMISSION HARNESS	SFOI	D183	21 WTEC II VEHICLE INTERFACE MODULE
~~~~		FUEL PRE-HEAT SWITCH	K27	H143 16	BO STOP RELAY	A7	ocofronnumenously	20 FREQUENCY DIVIDER	E501	afronomorpo	VAN EMERGENCY/BLACKOUT LIGHT/24 VDC	SF01	D183	21 WTEC II VEHICLE INTERFACE MODULE
		STARTER PUSHBUTTON	K28		TRAILER REAR LIGHTS RELAY		****			1	OUTLET	SF02	zenomeljenomeljenome	21 WTEC II VEHICLE INTERFACE MODULE
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	D179 20	STOPLIGHT SWITCH	K30	H147 17	REAR LEFT COMPOSITE LAMP RELAY	B3	G83	10 WINDSHIELD WASHER ROTARY PUMP	E504	B272	71 VAN MARKER LIGHT	SF3	F183	21 WTEC II VEHICLE INTERFACE MODULE
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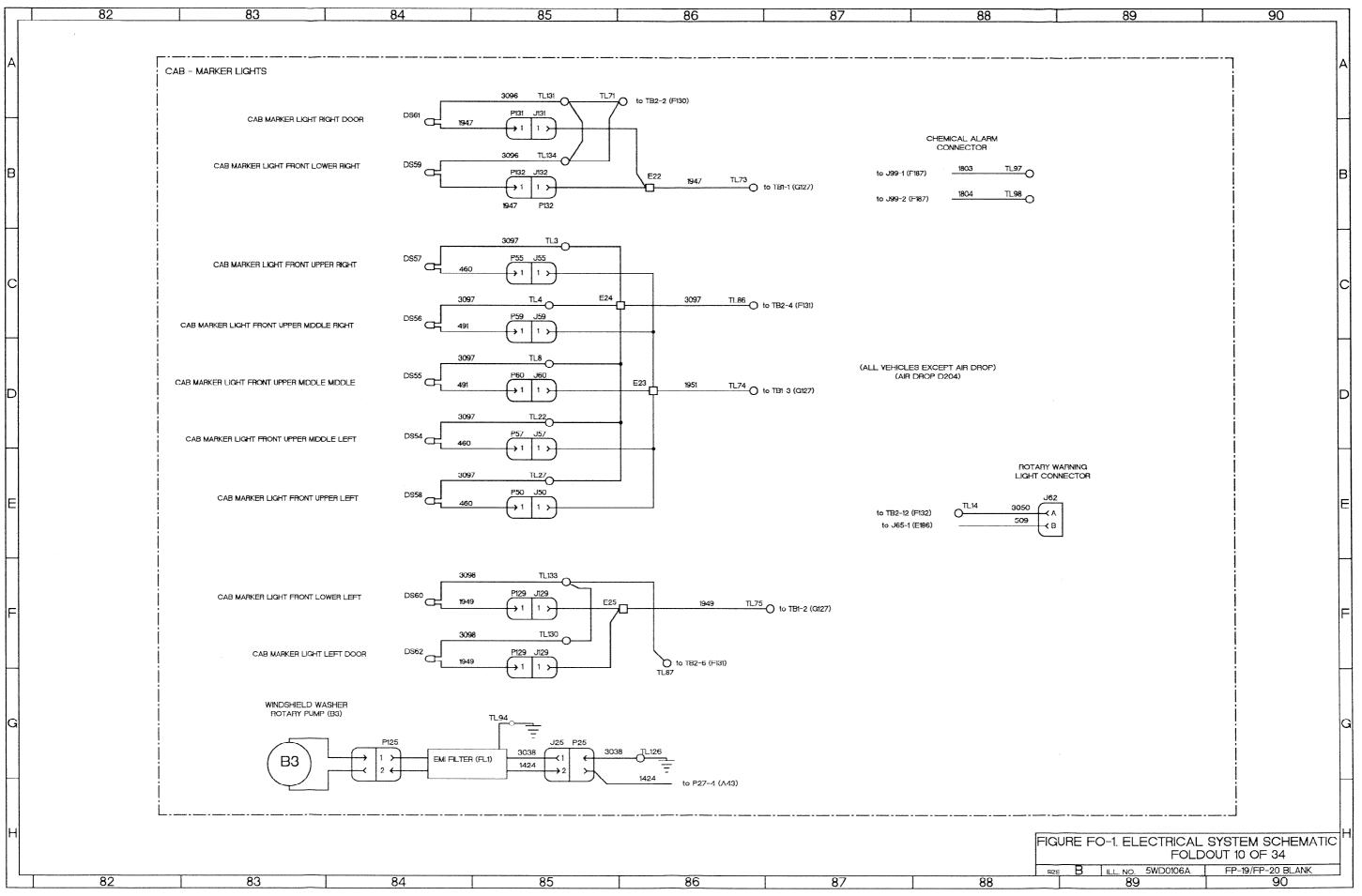


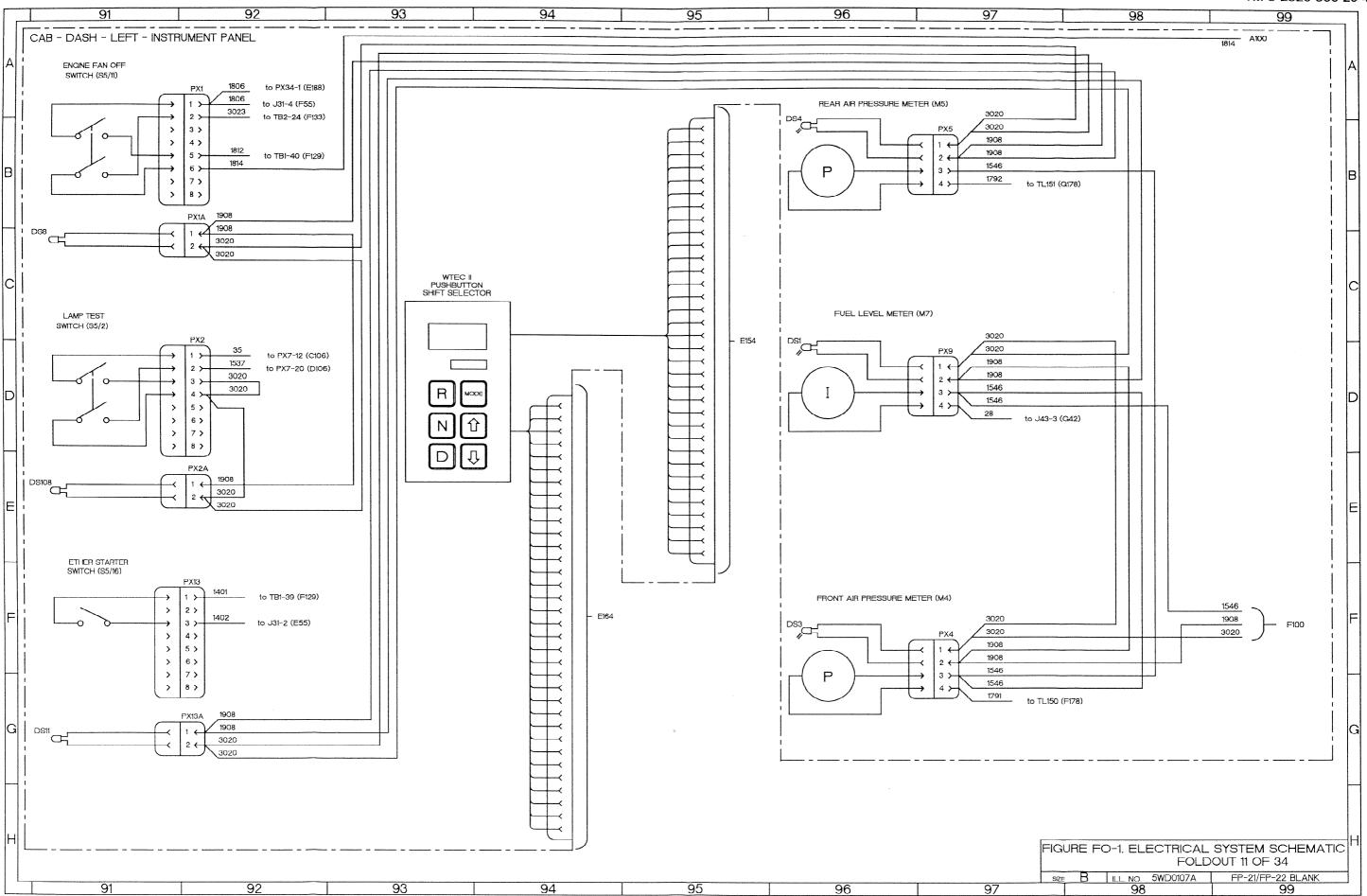


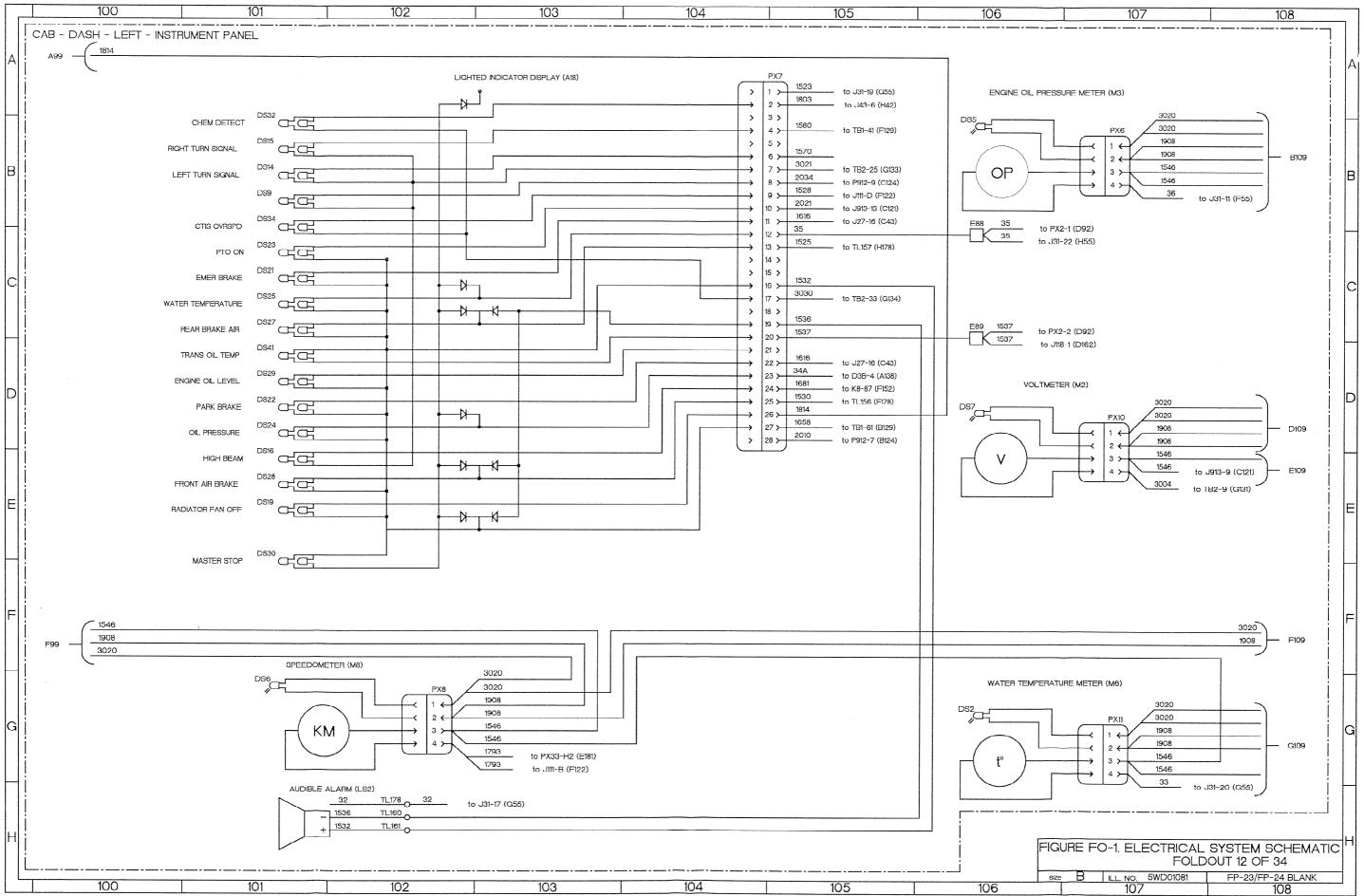


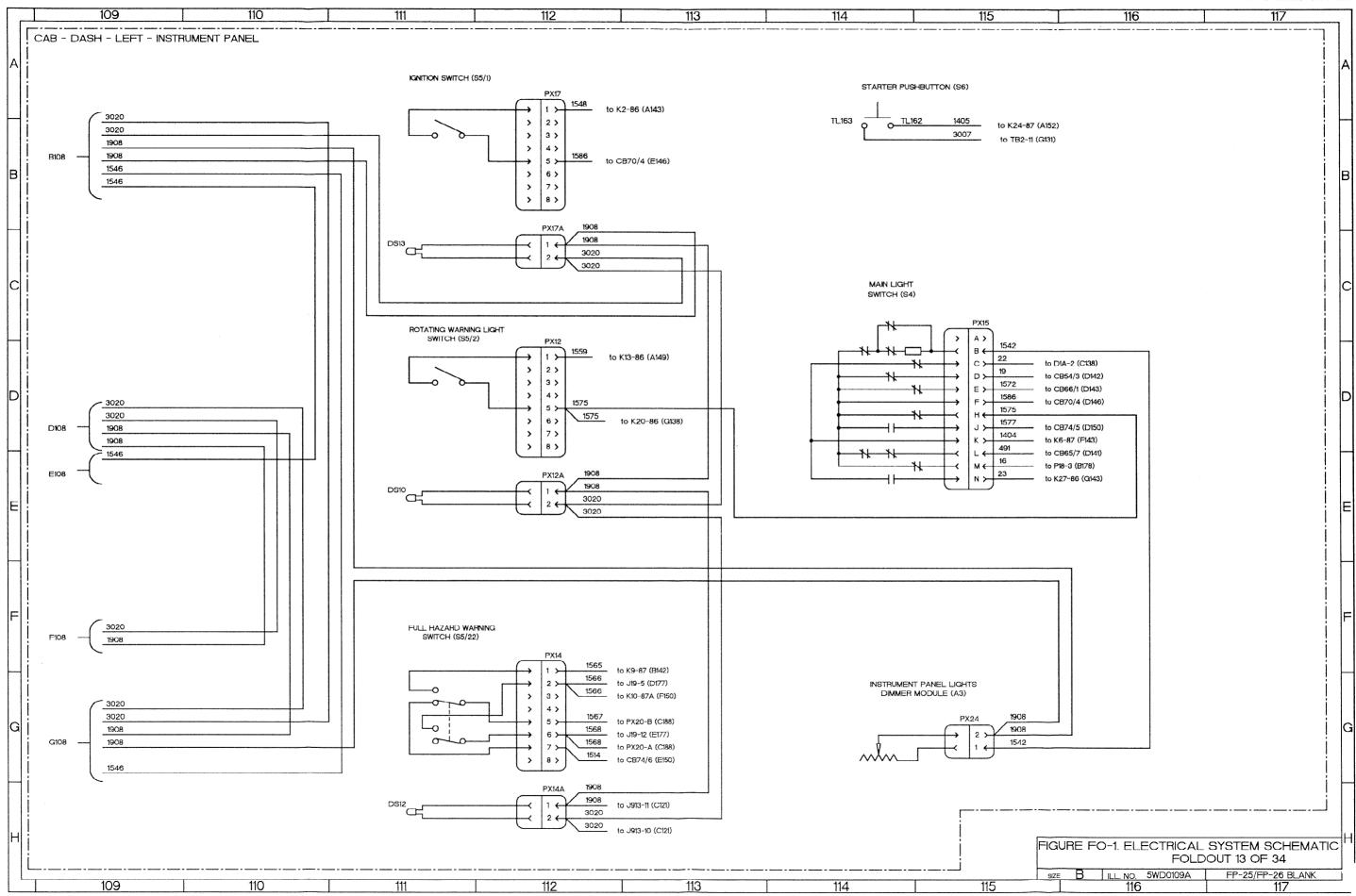


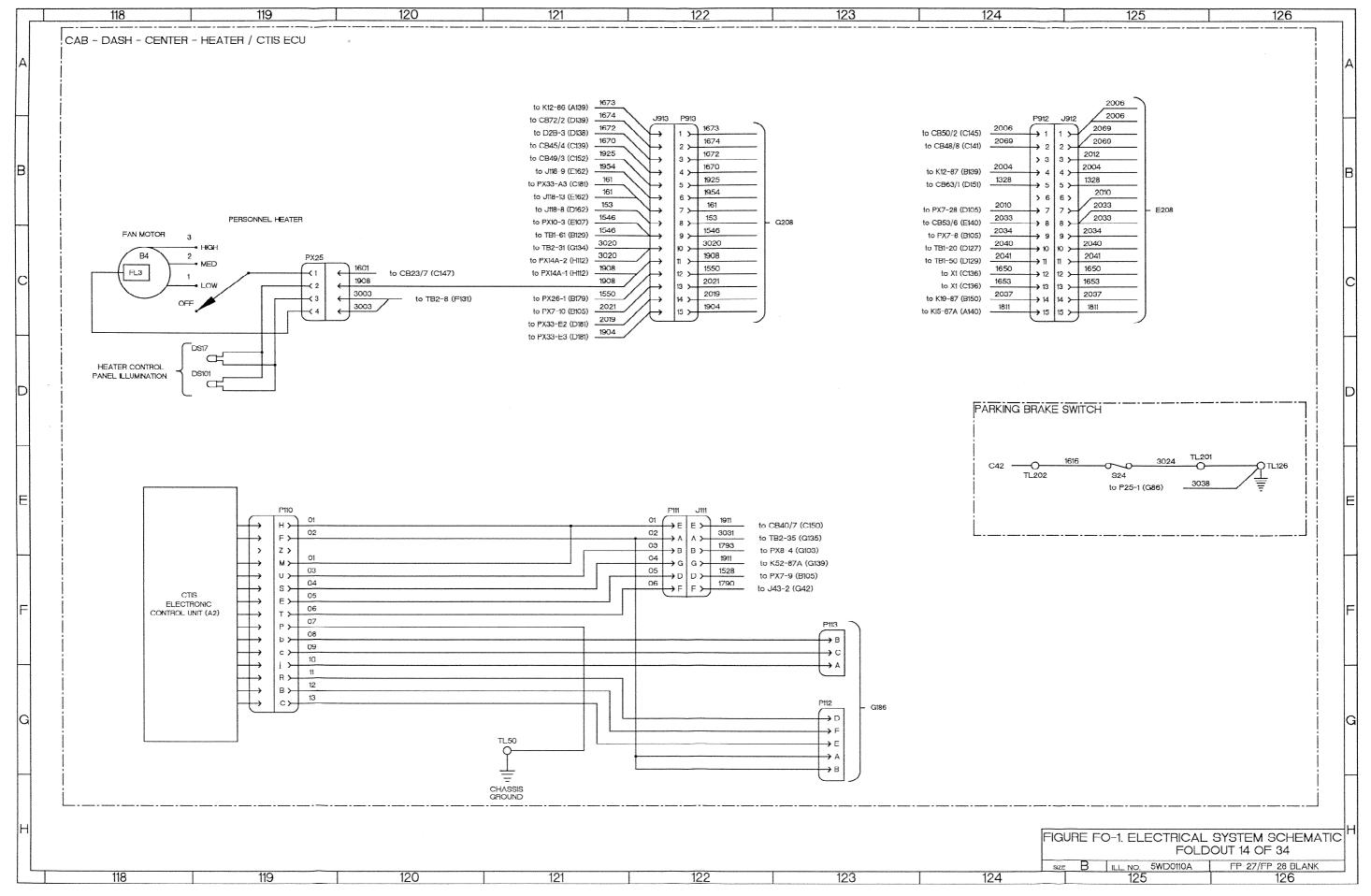


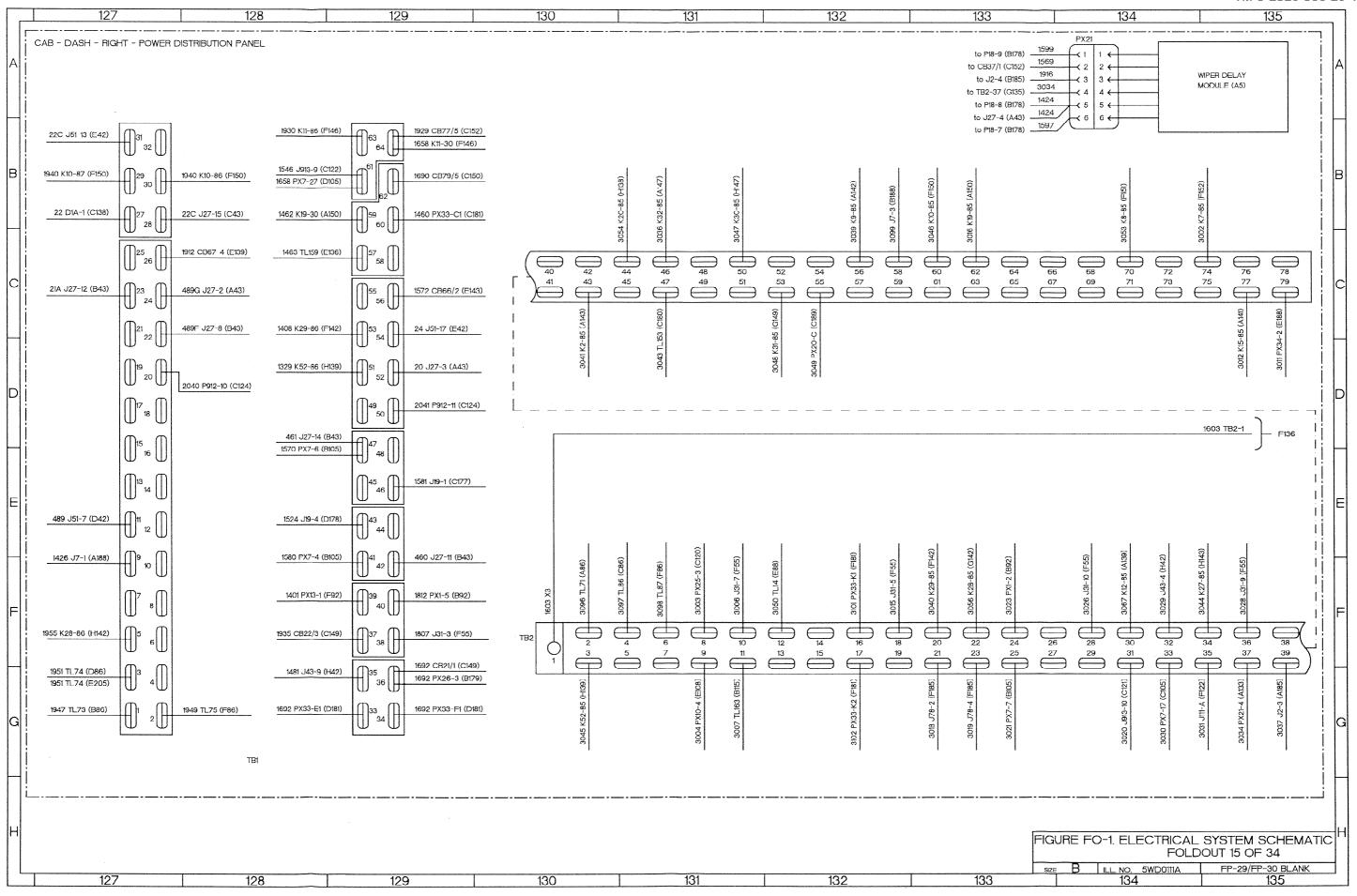


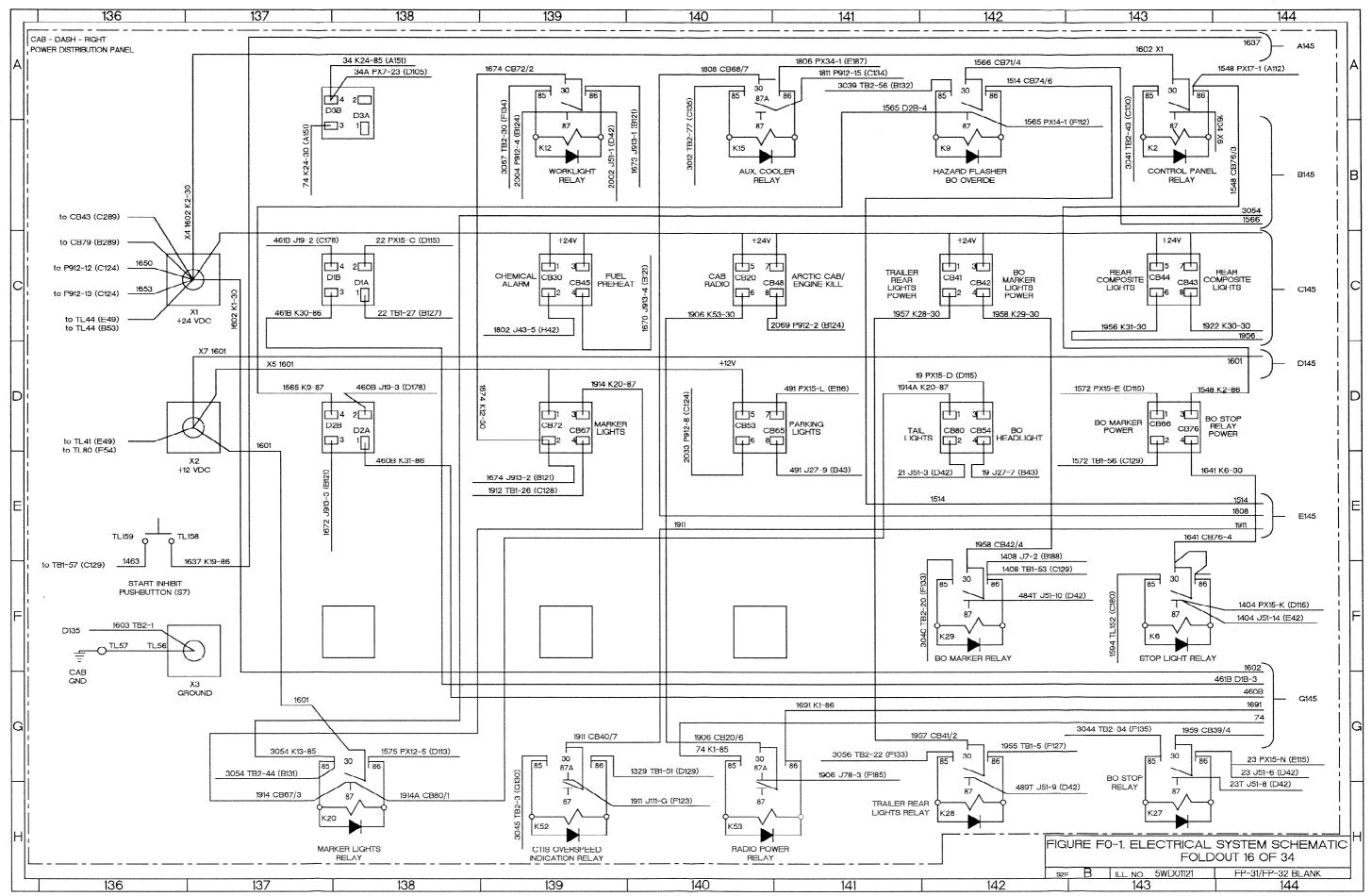


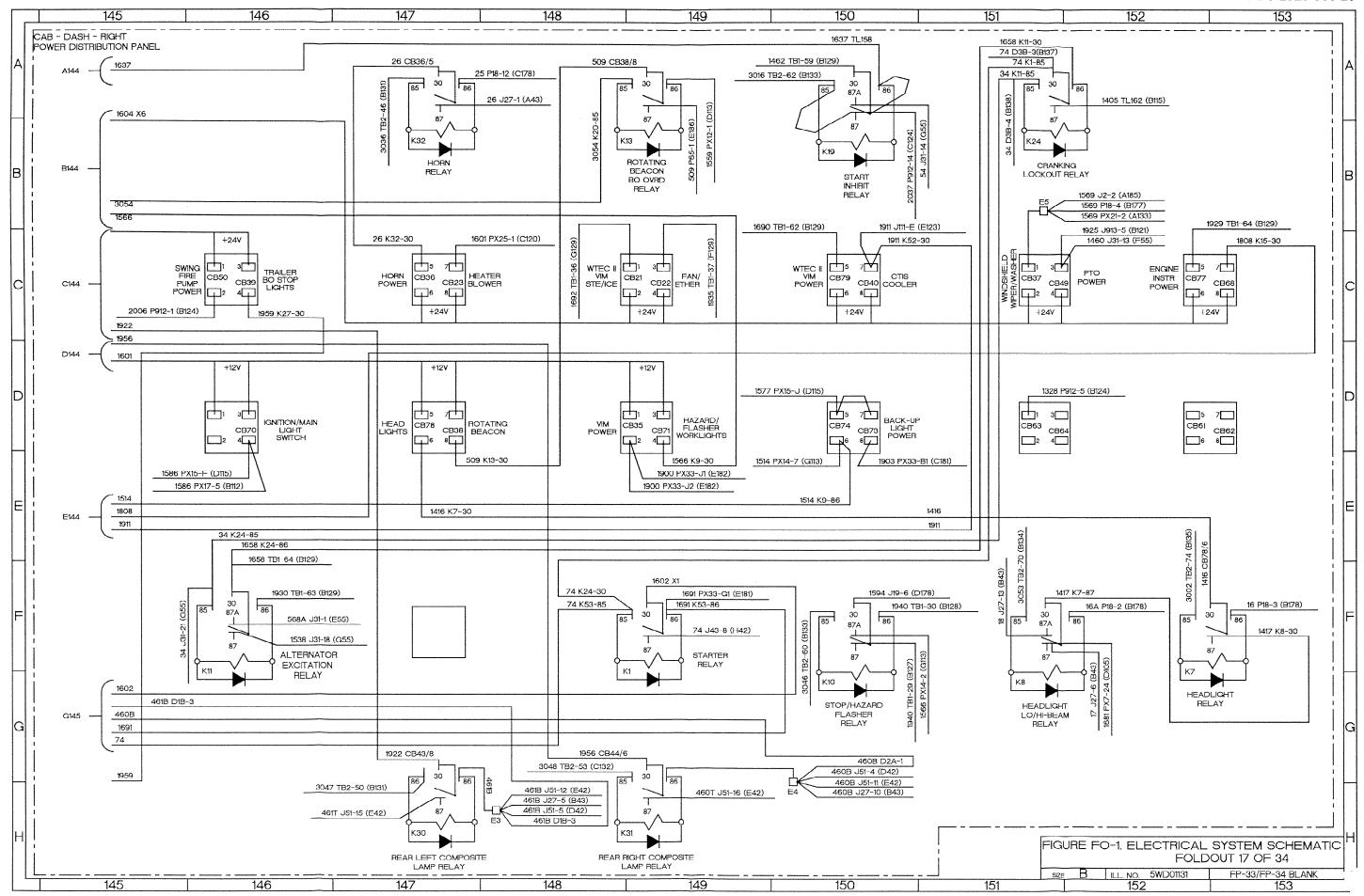


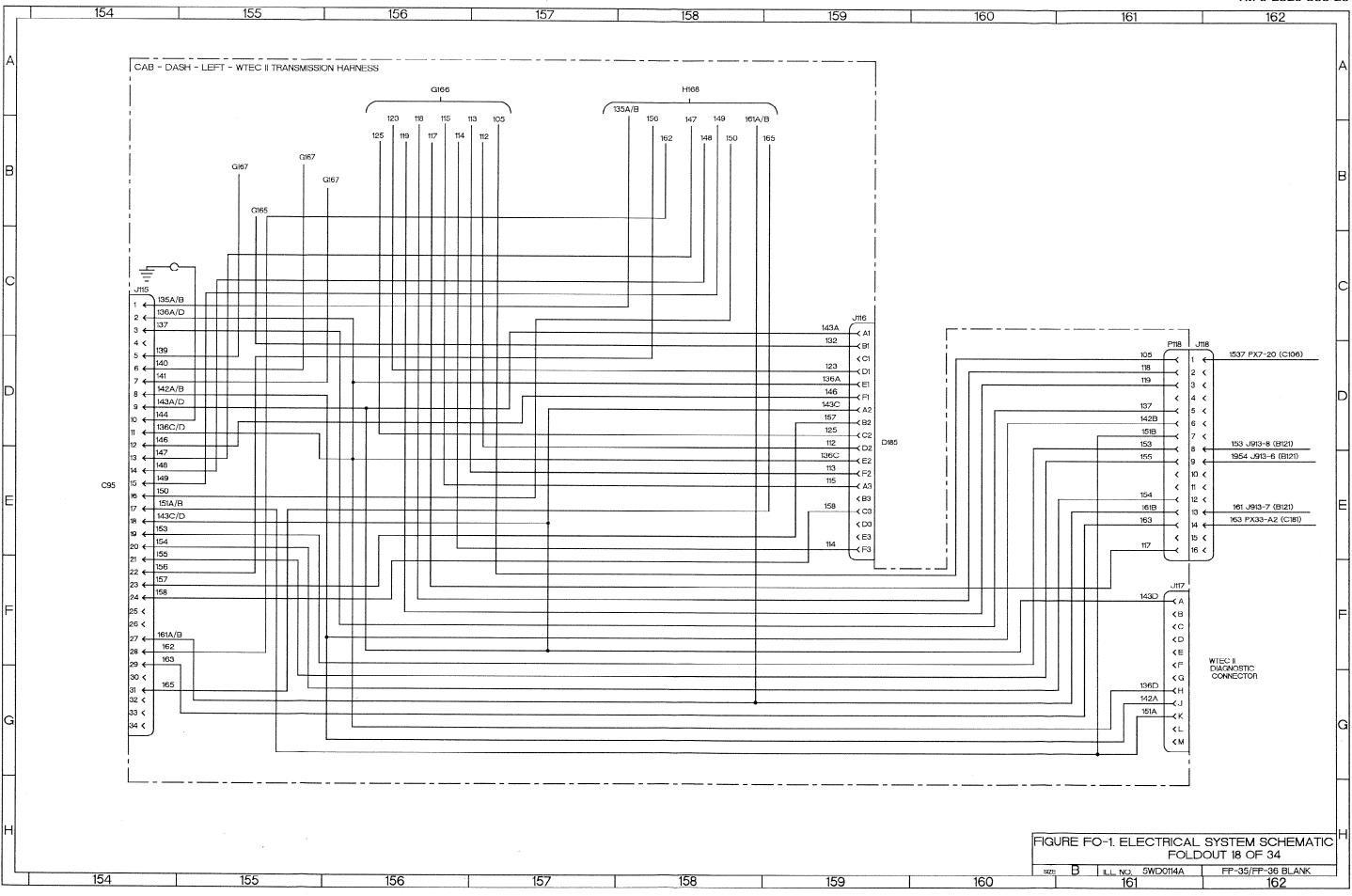


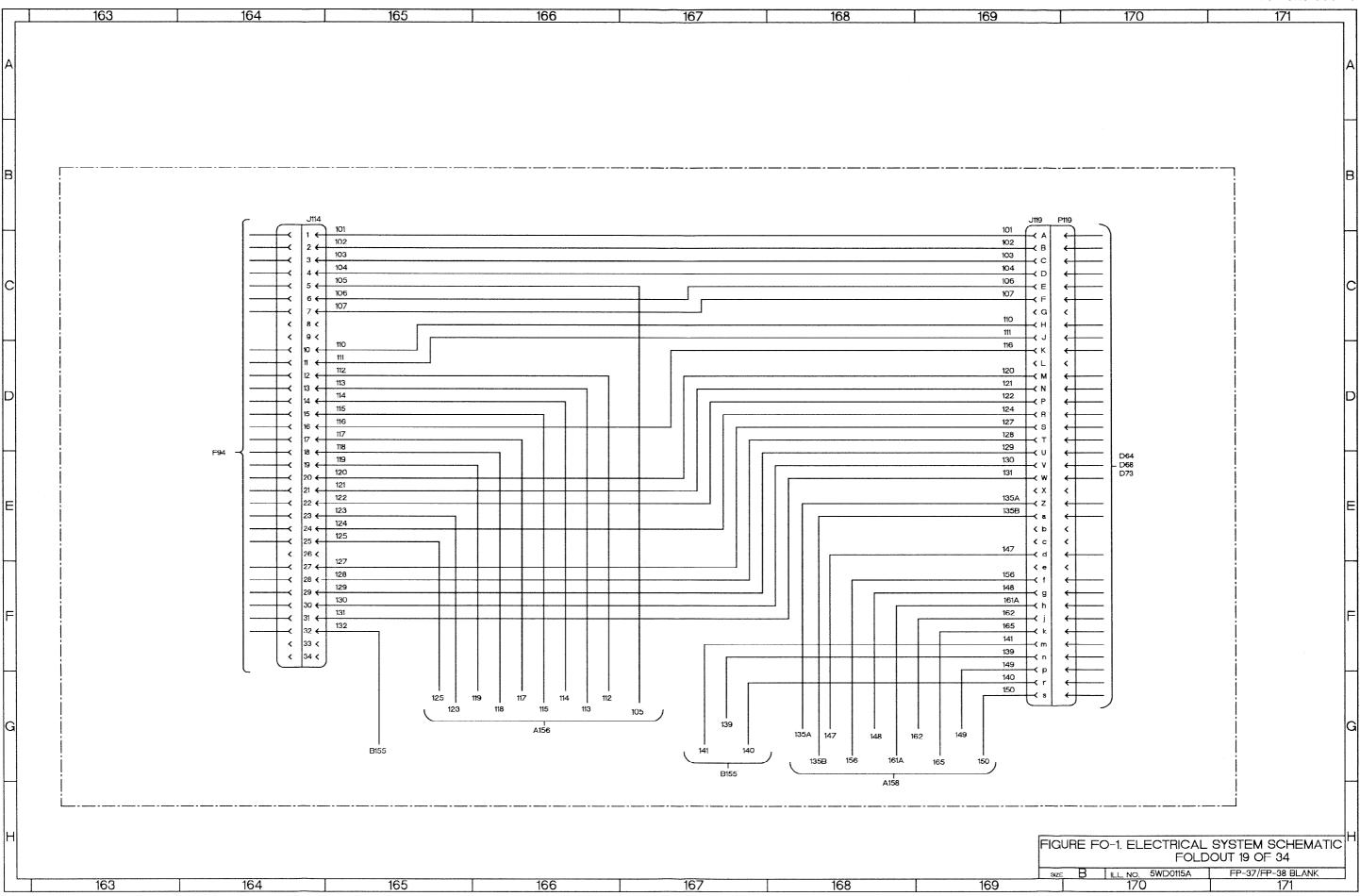


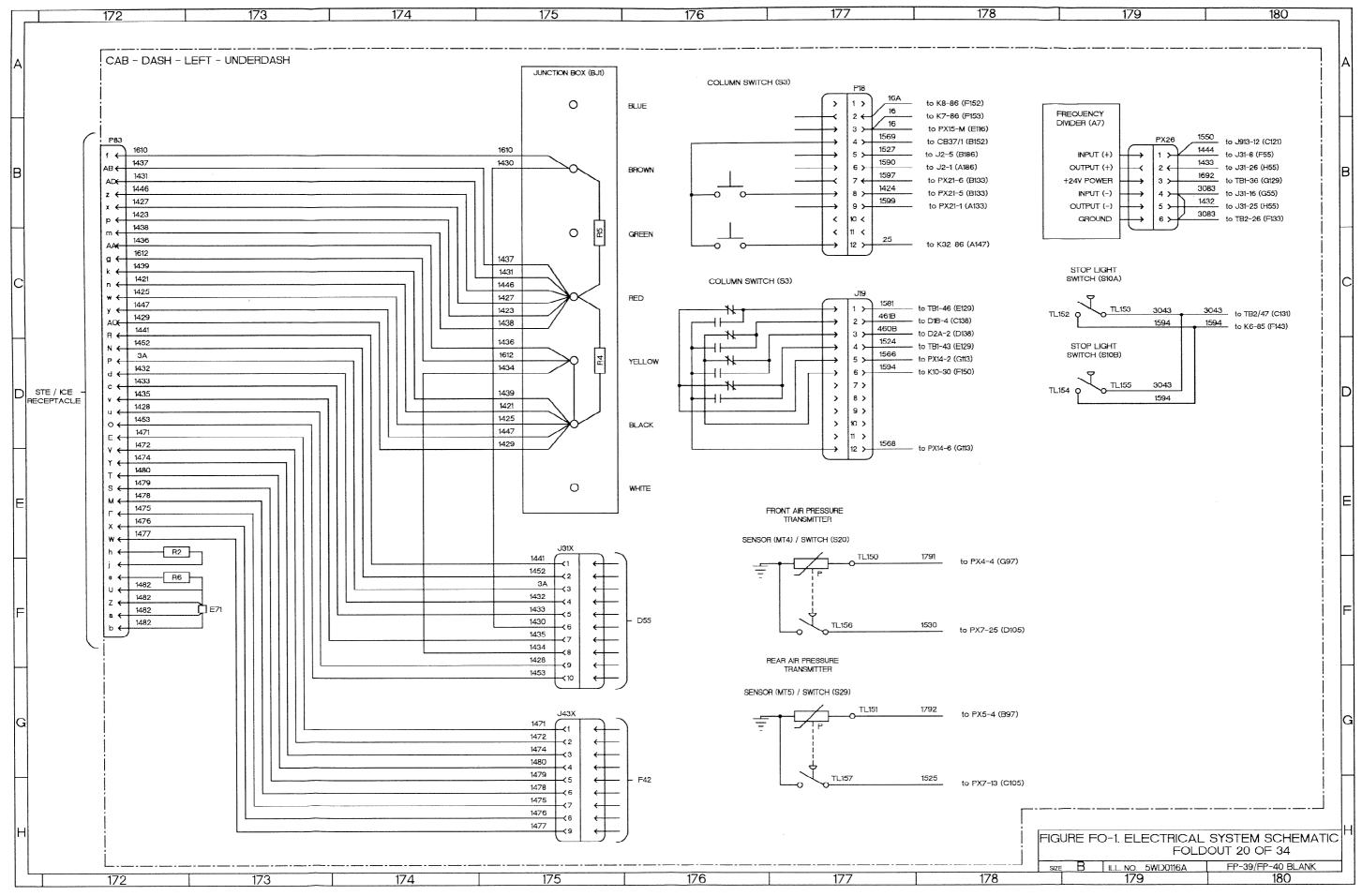


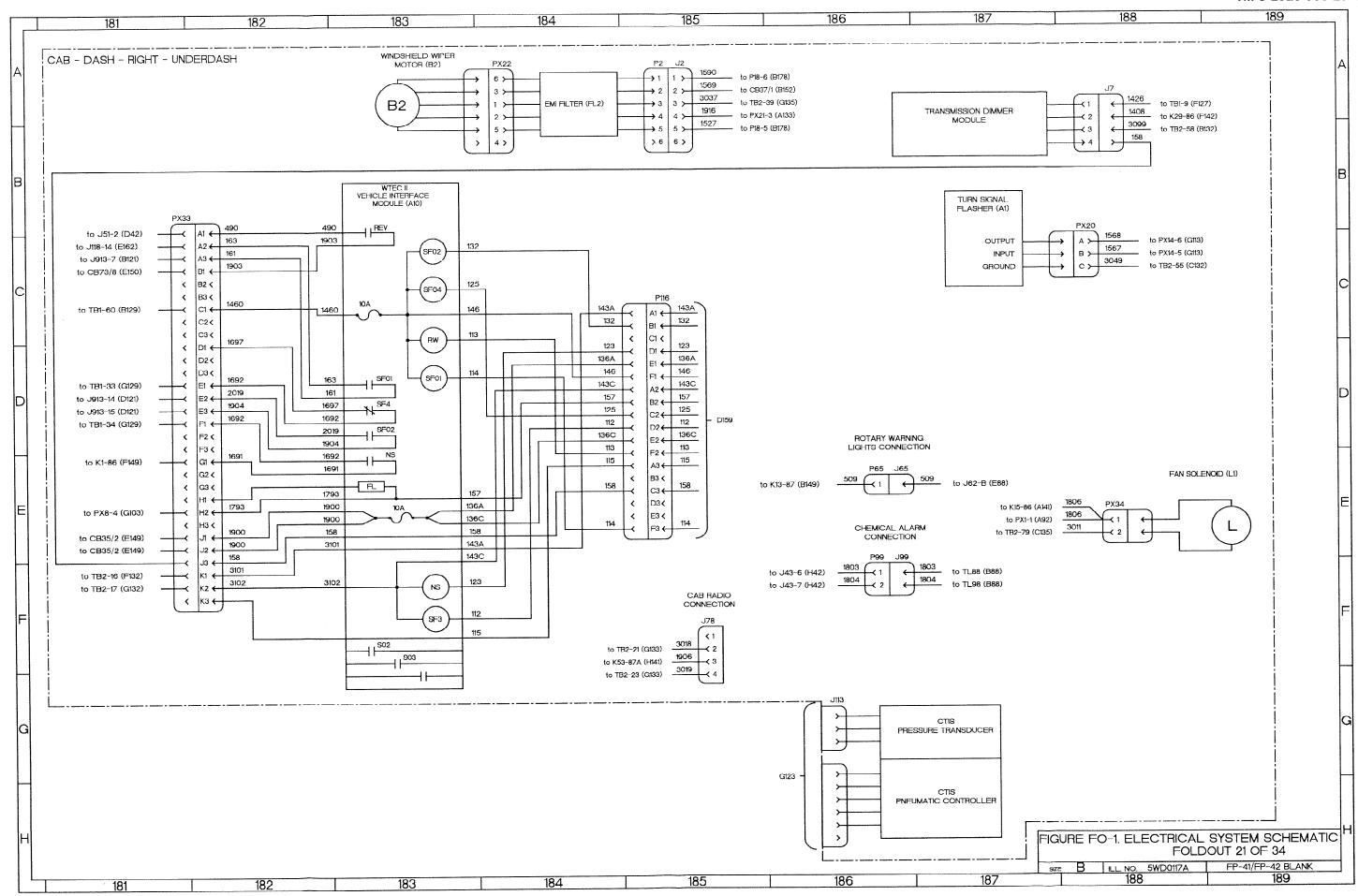


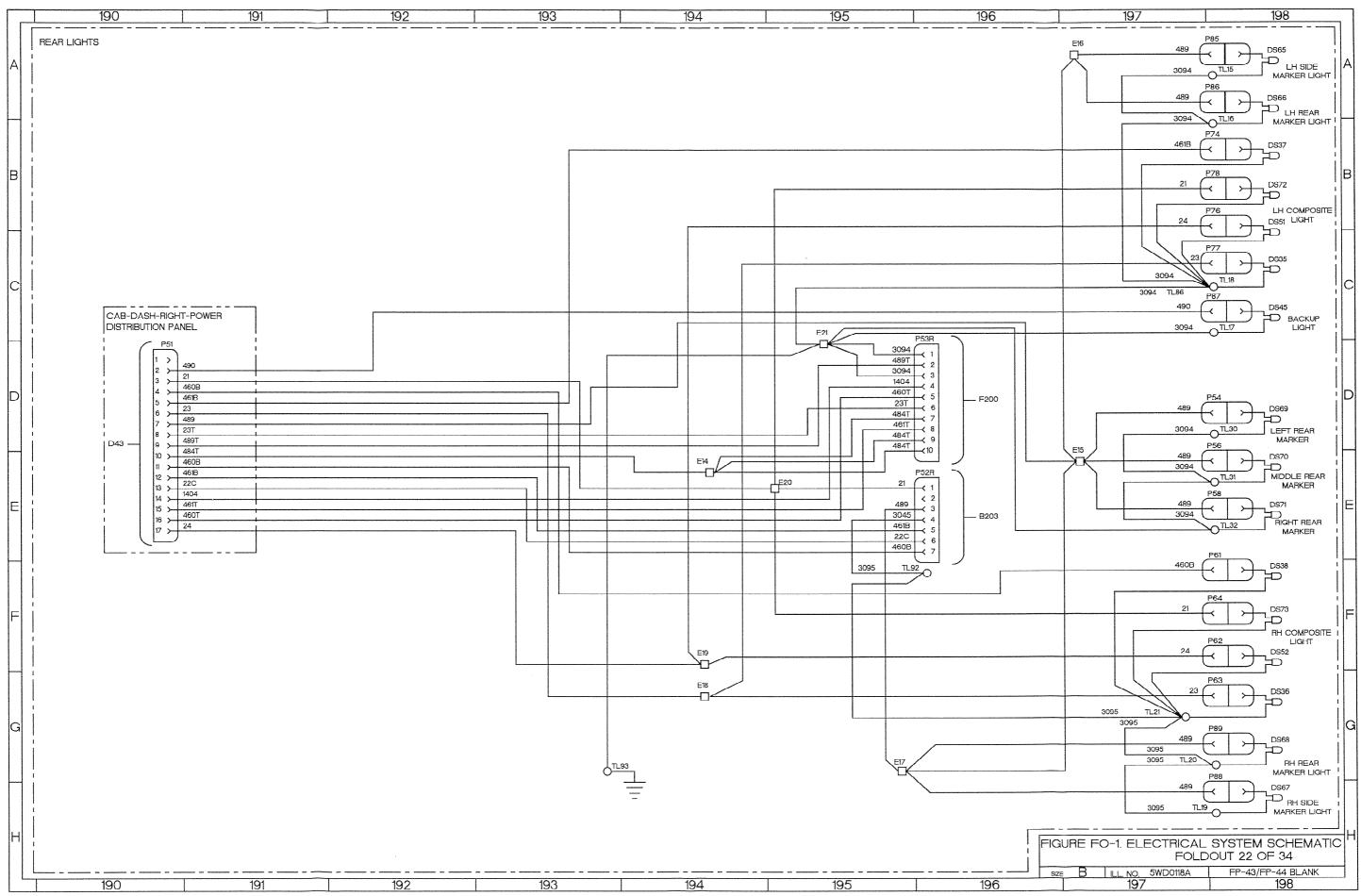


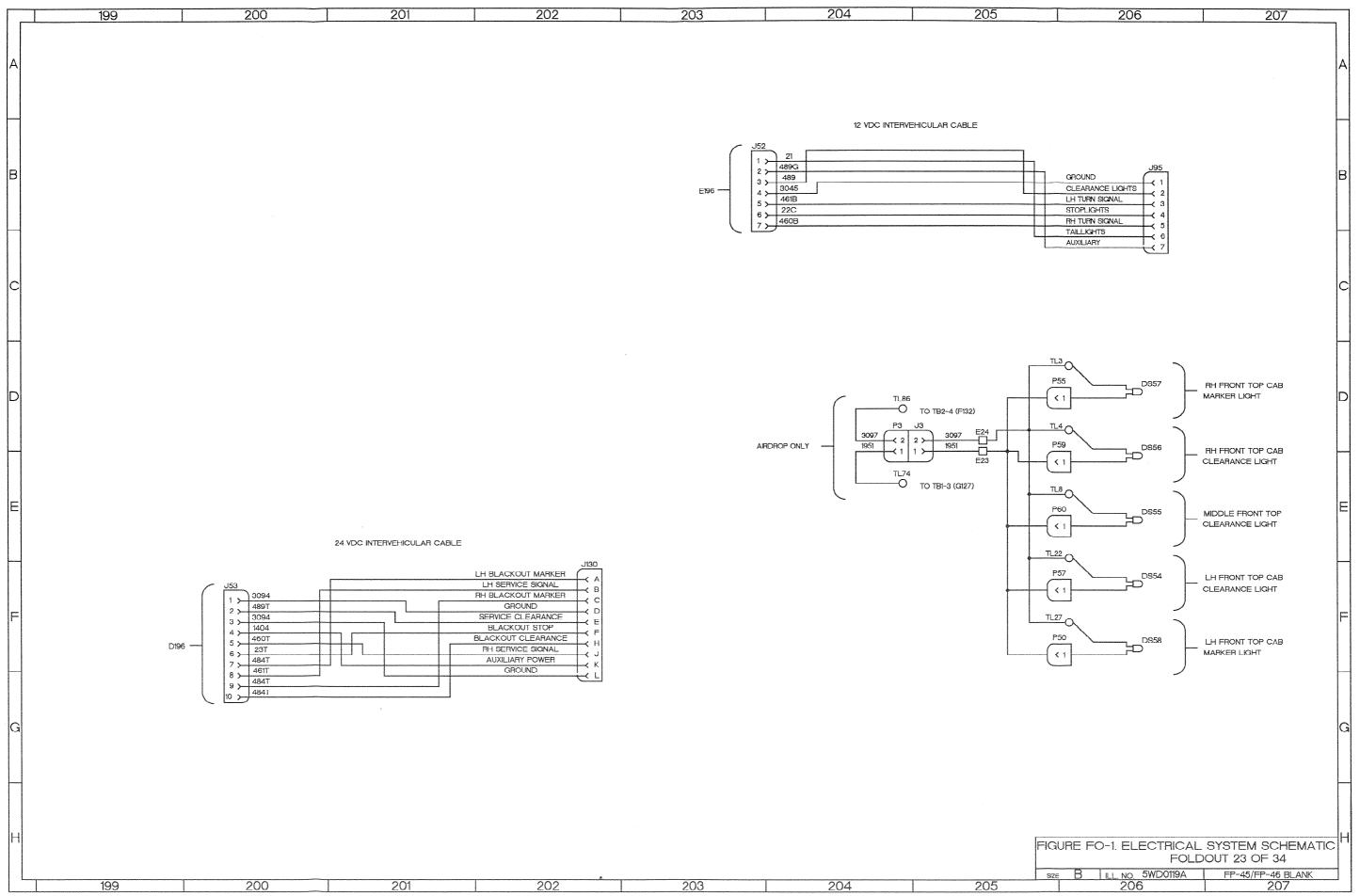


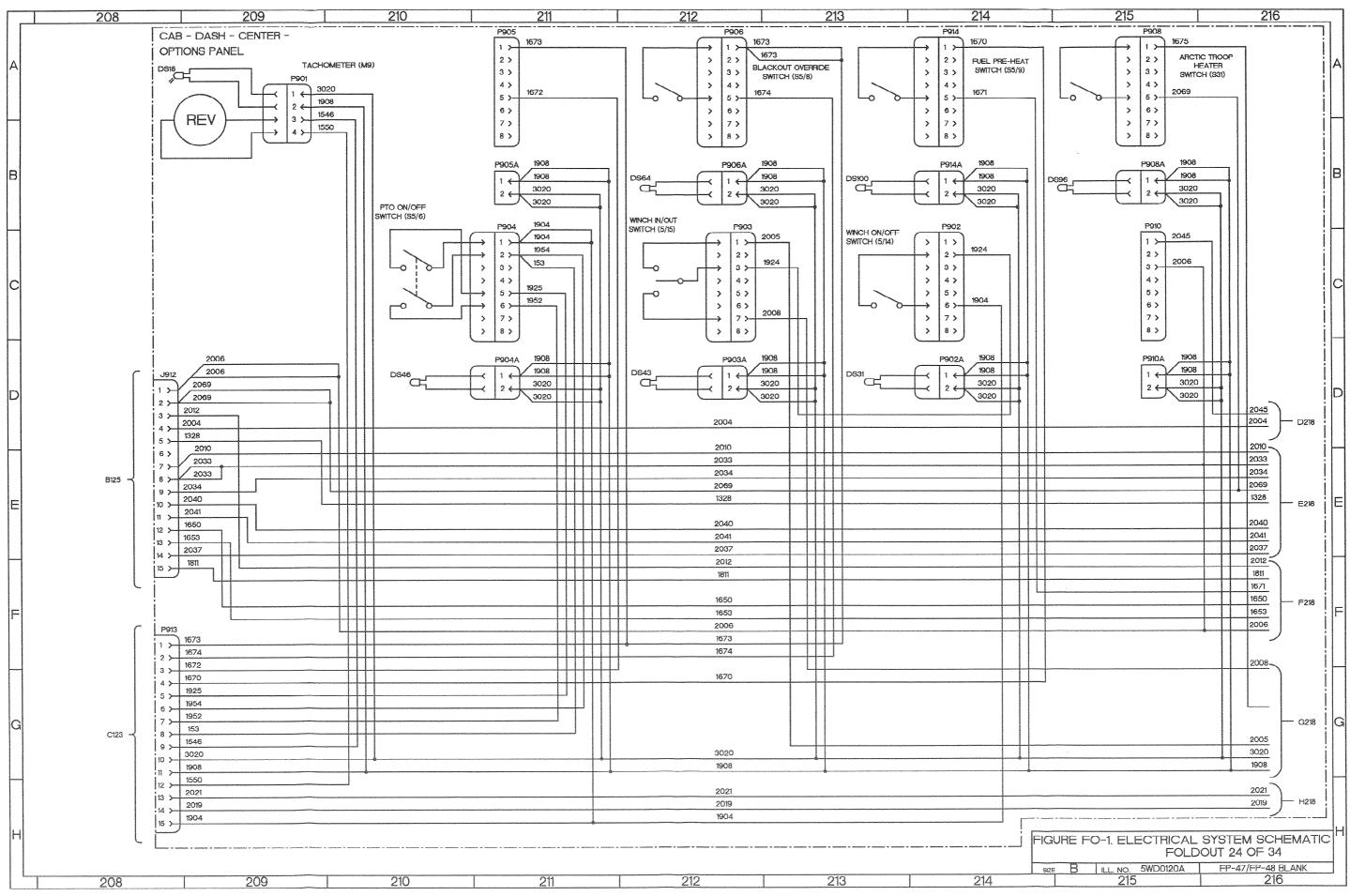


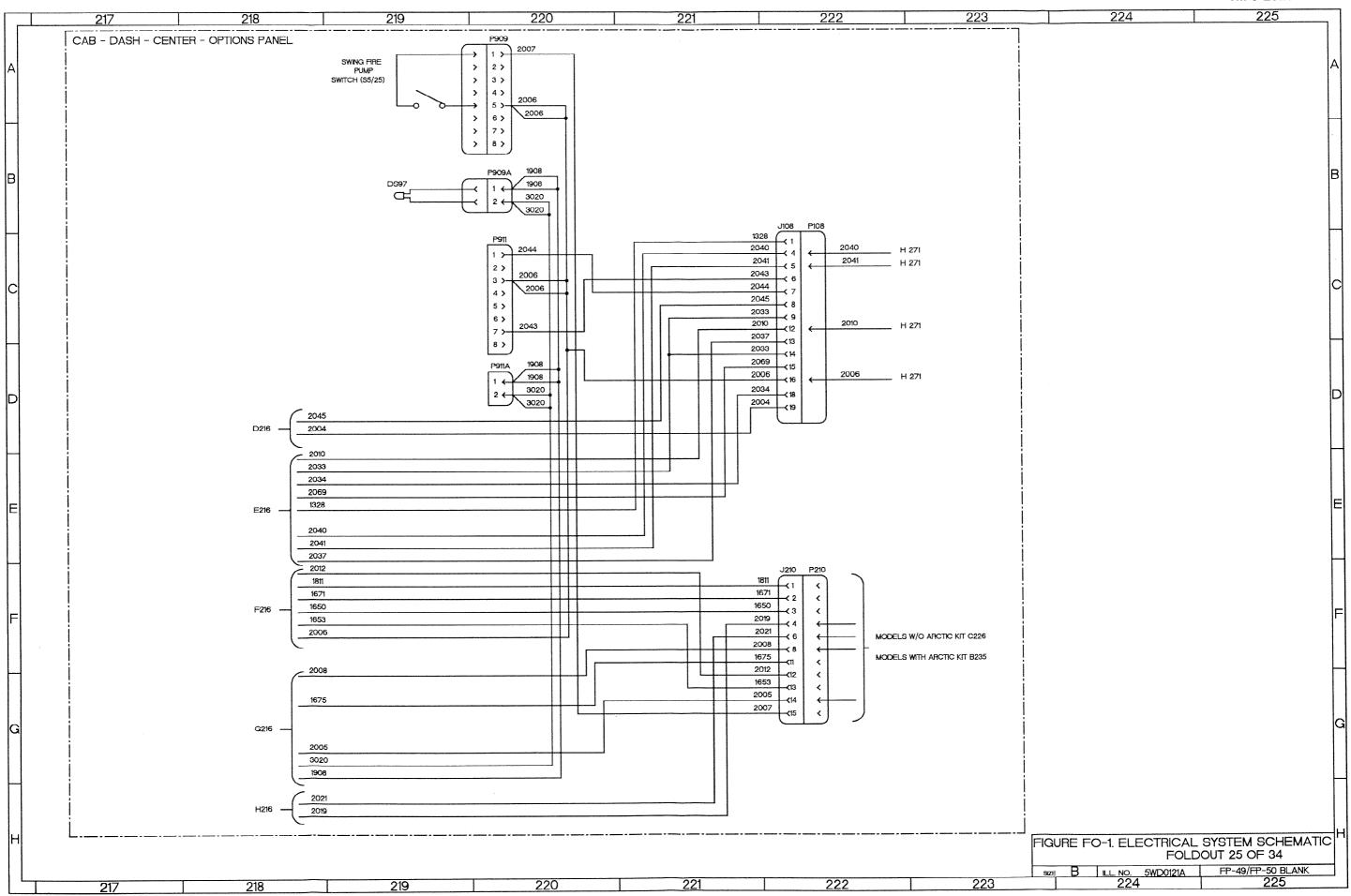


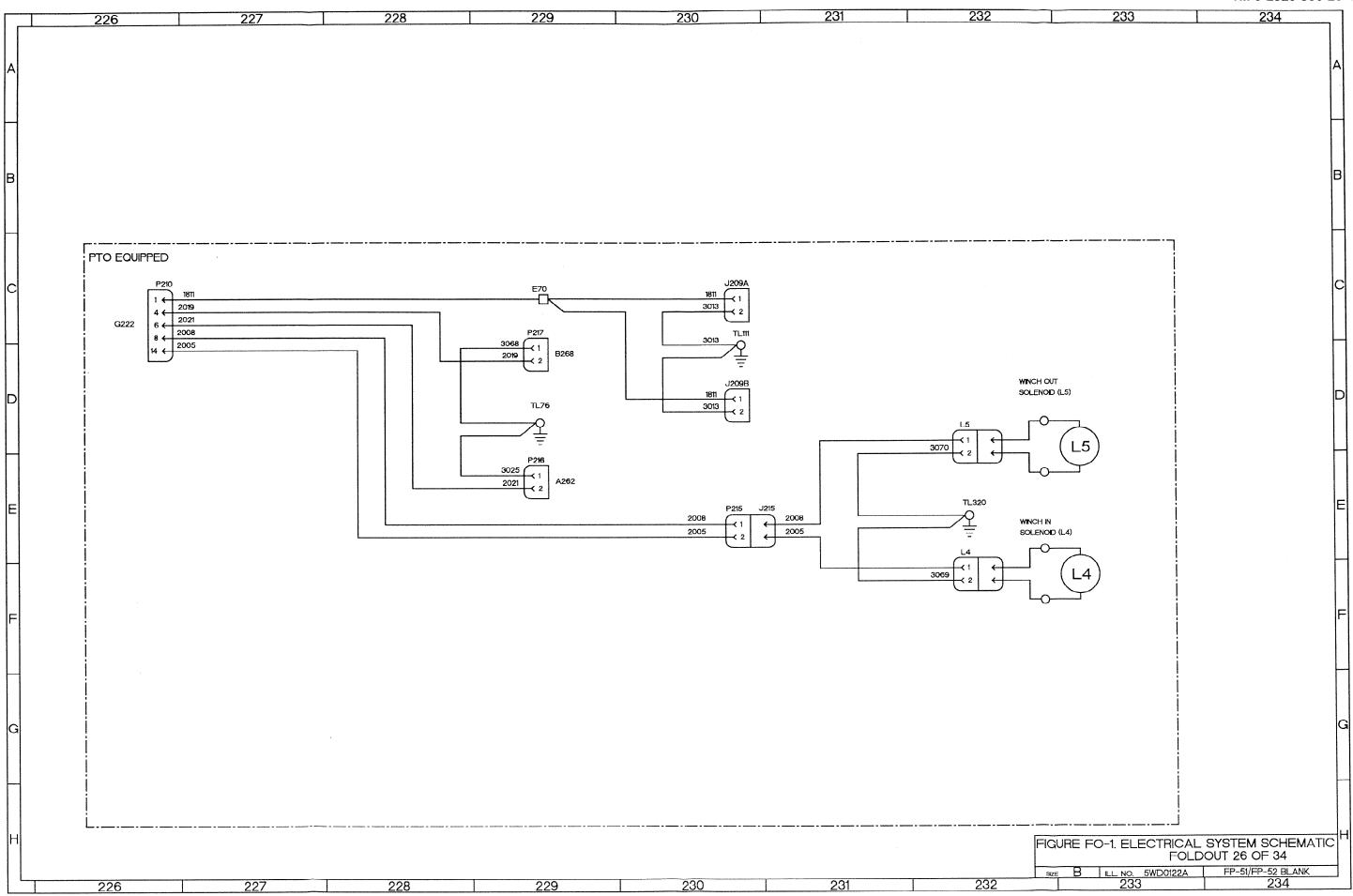


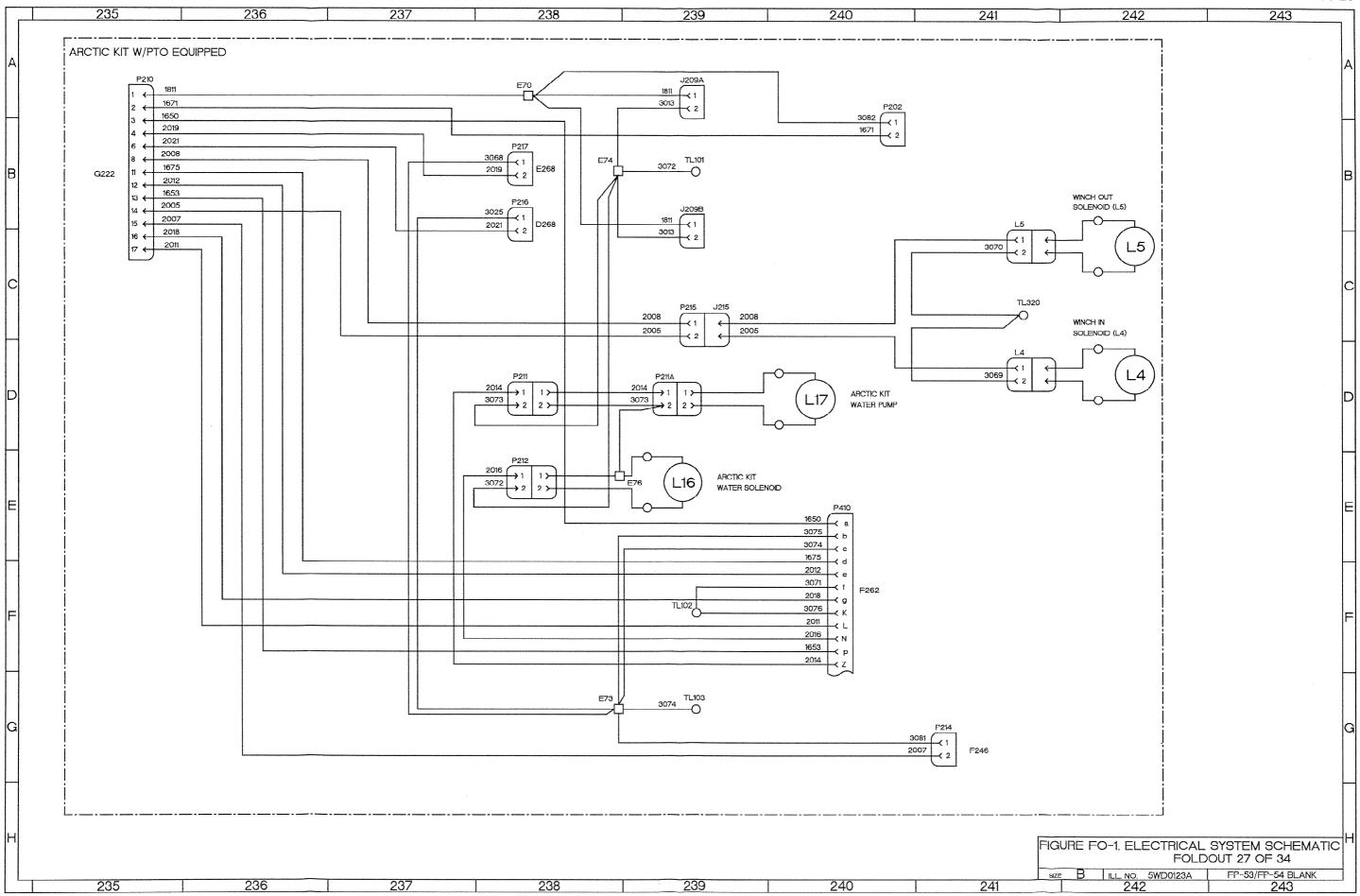




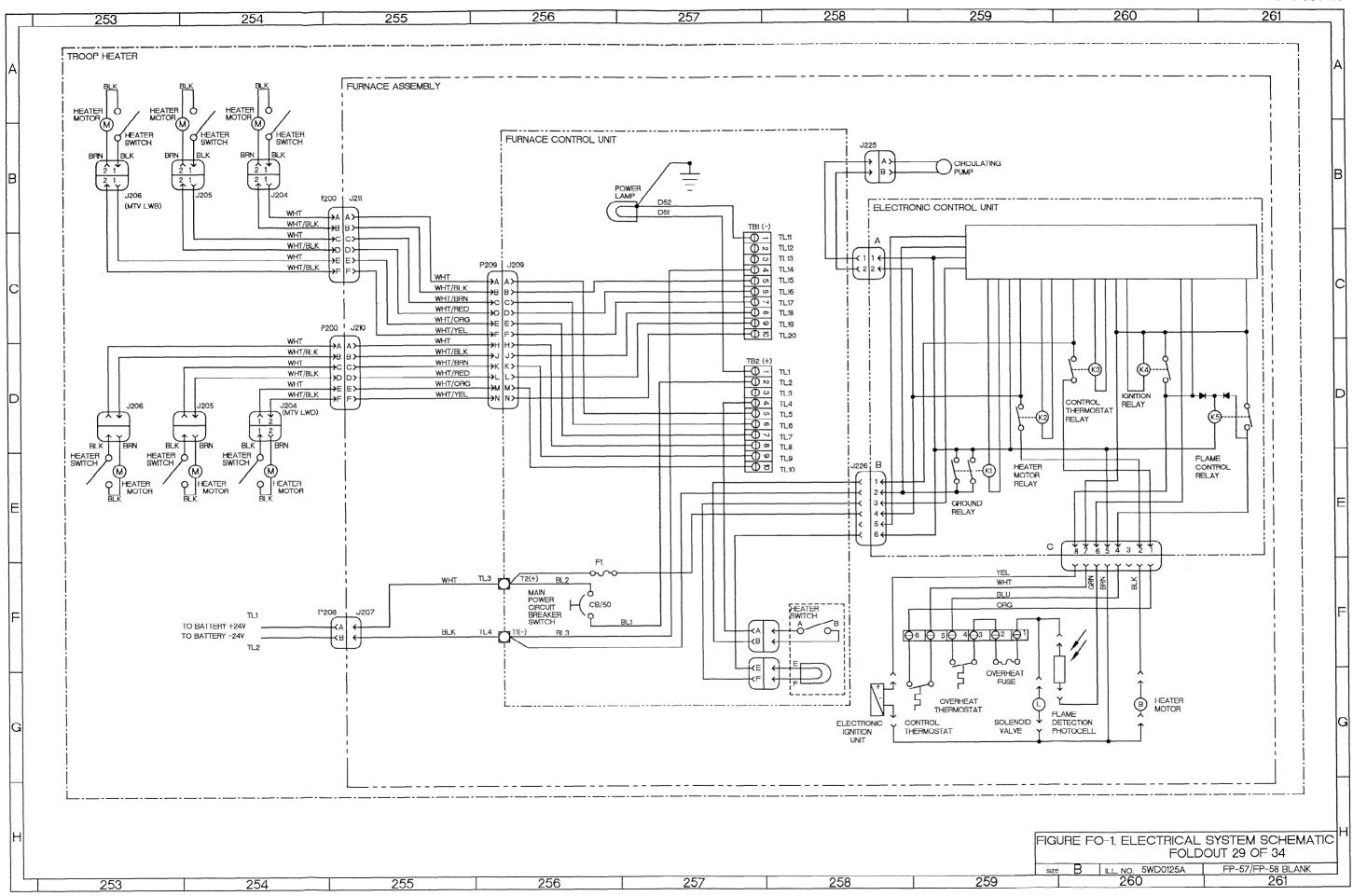


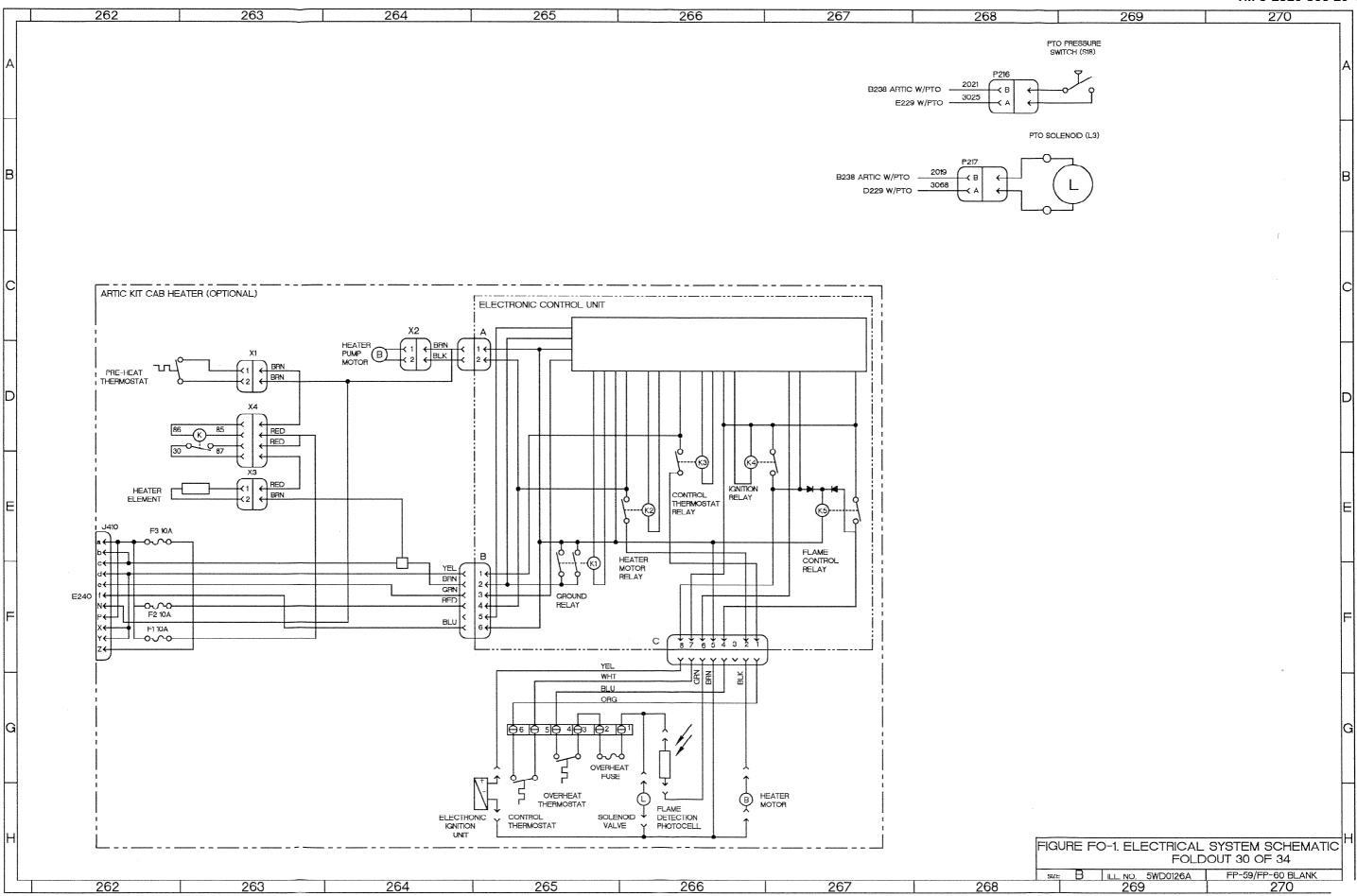


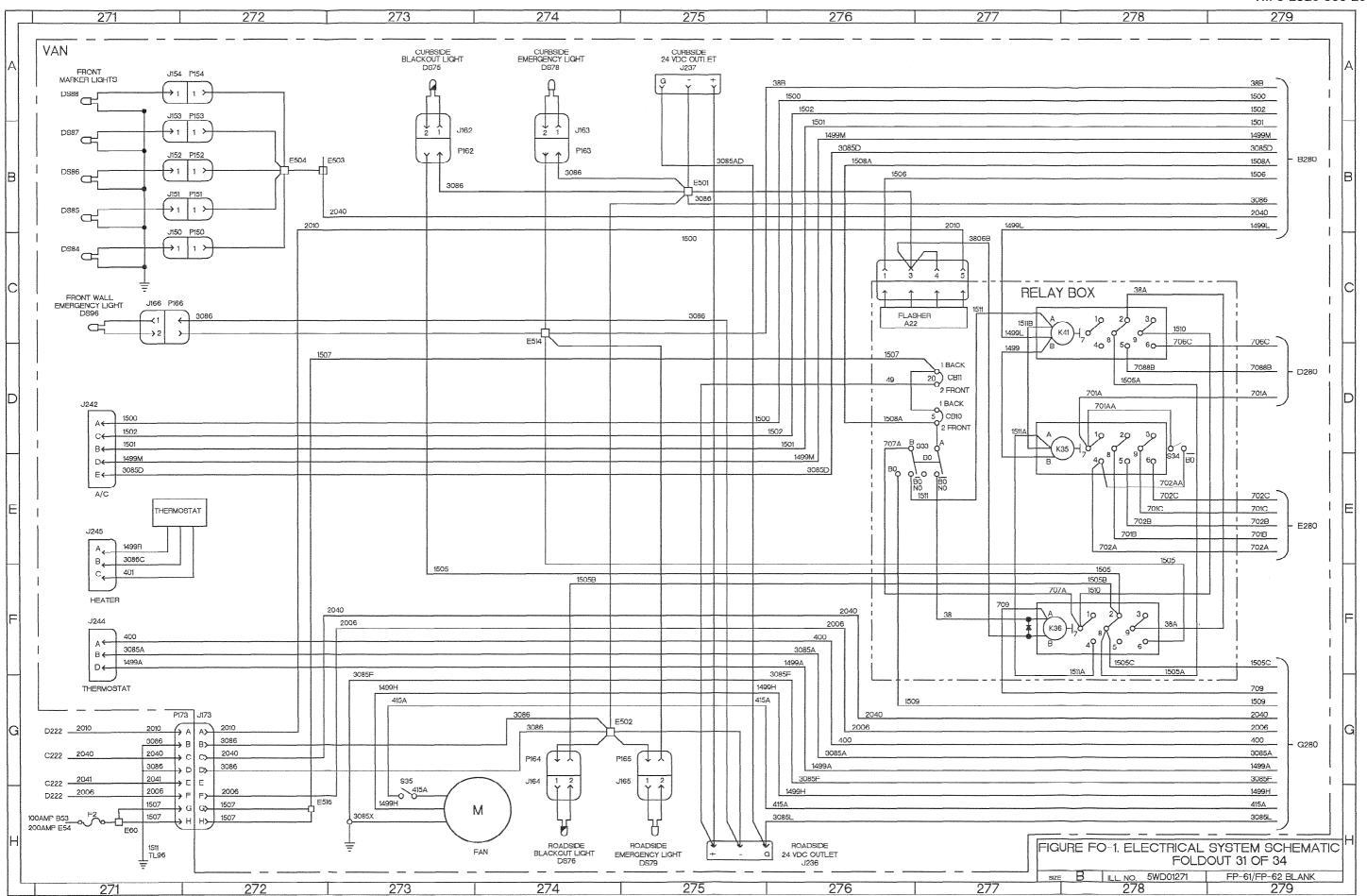


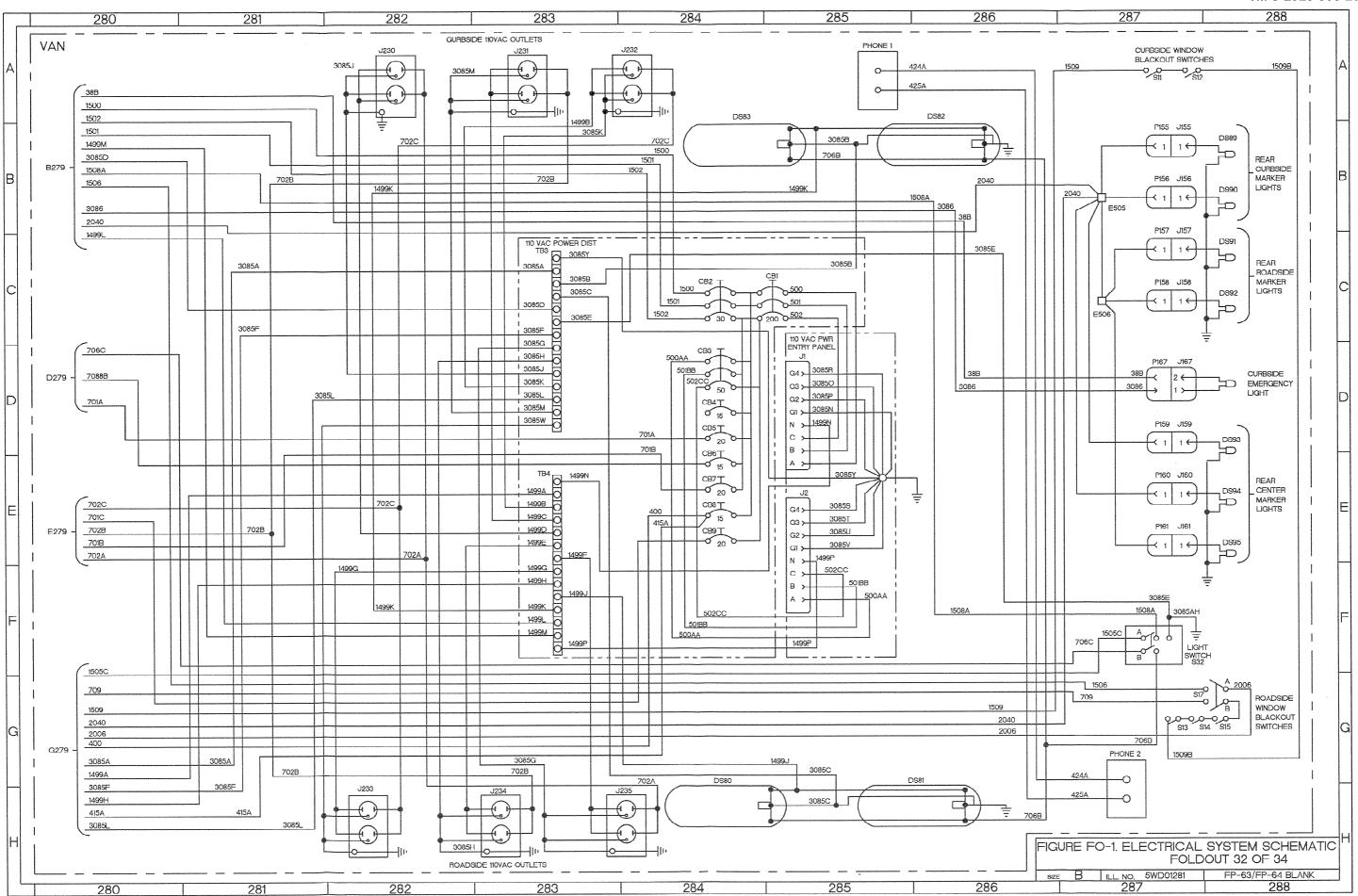


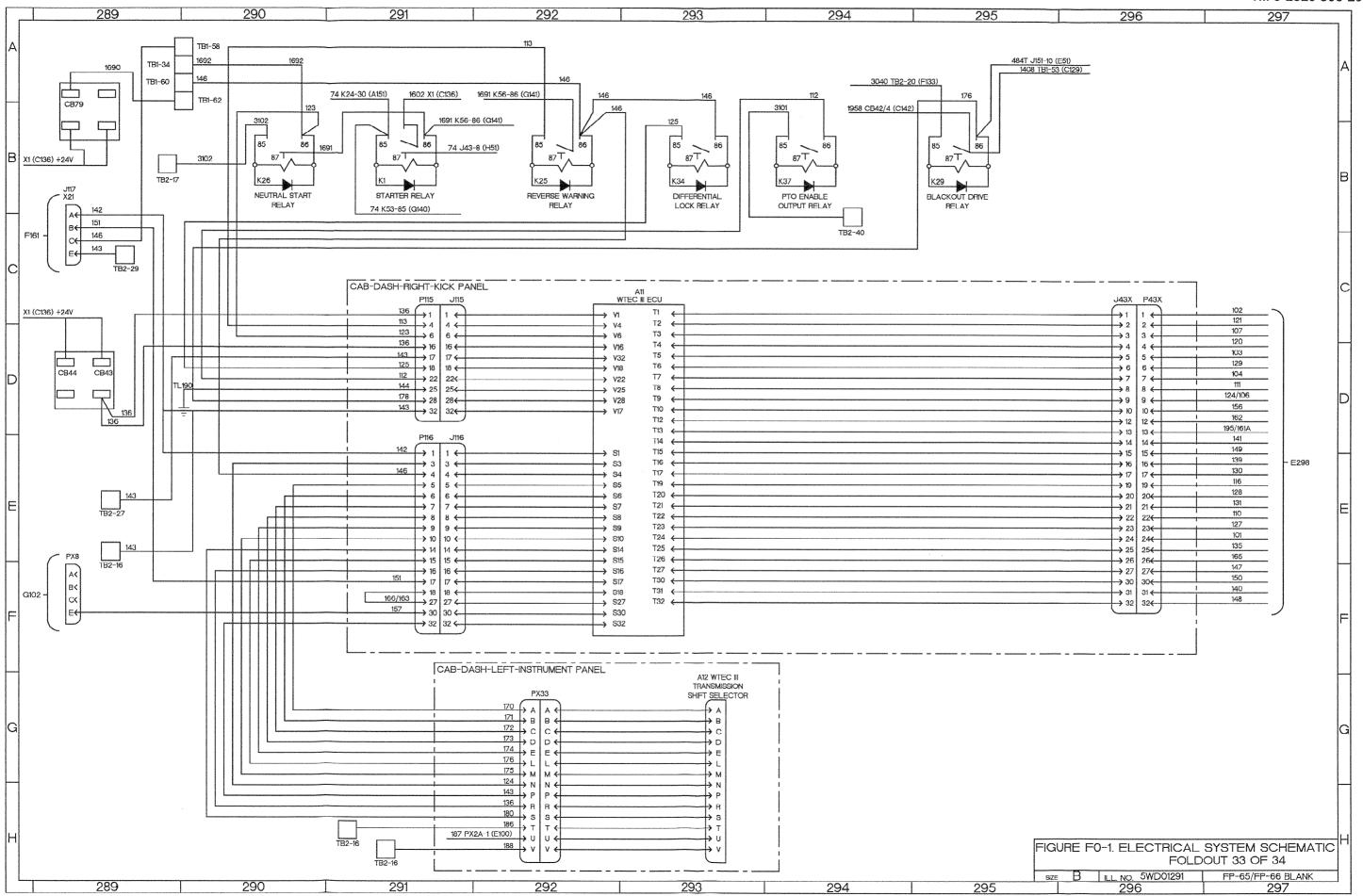
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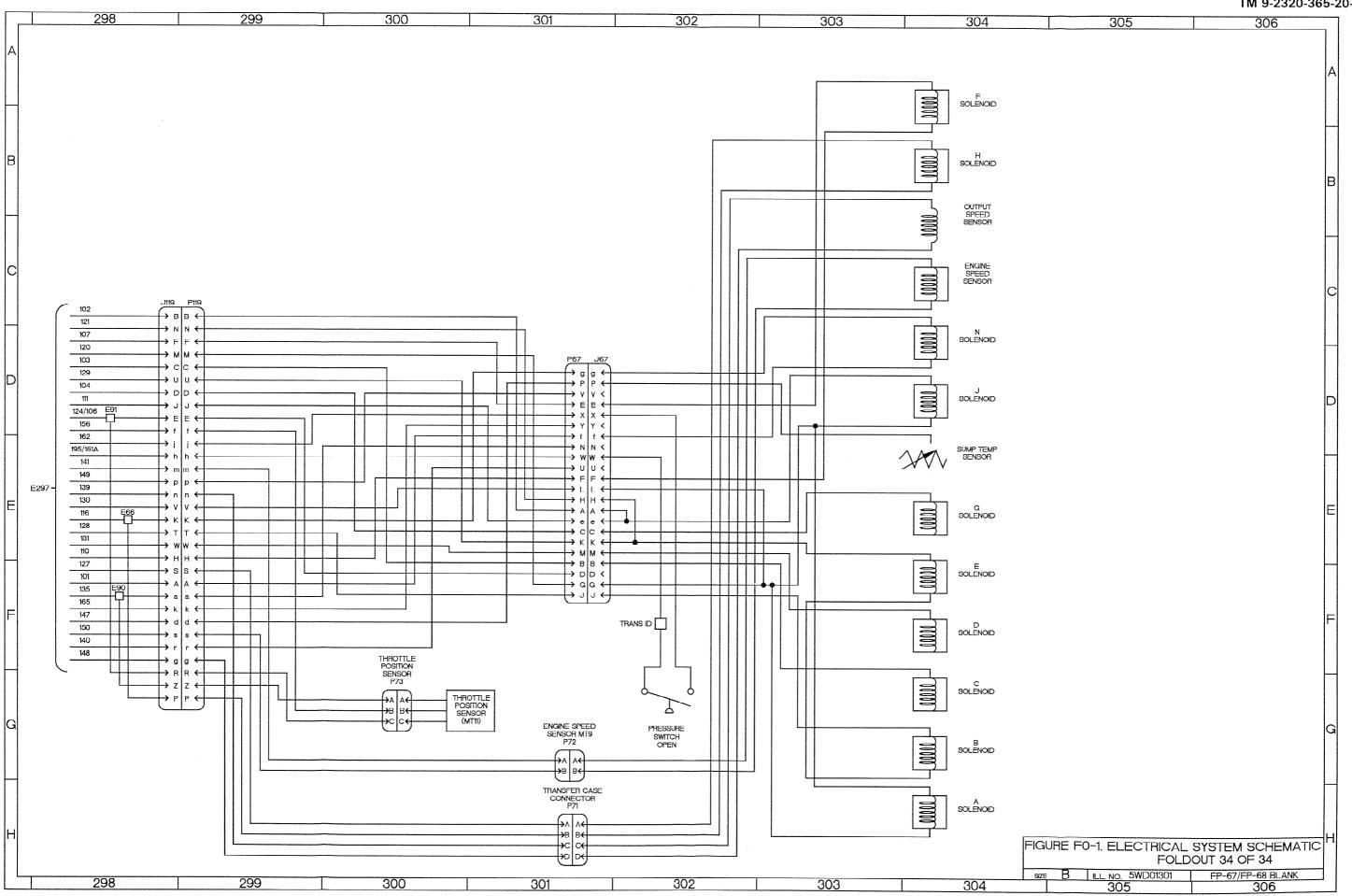






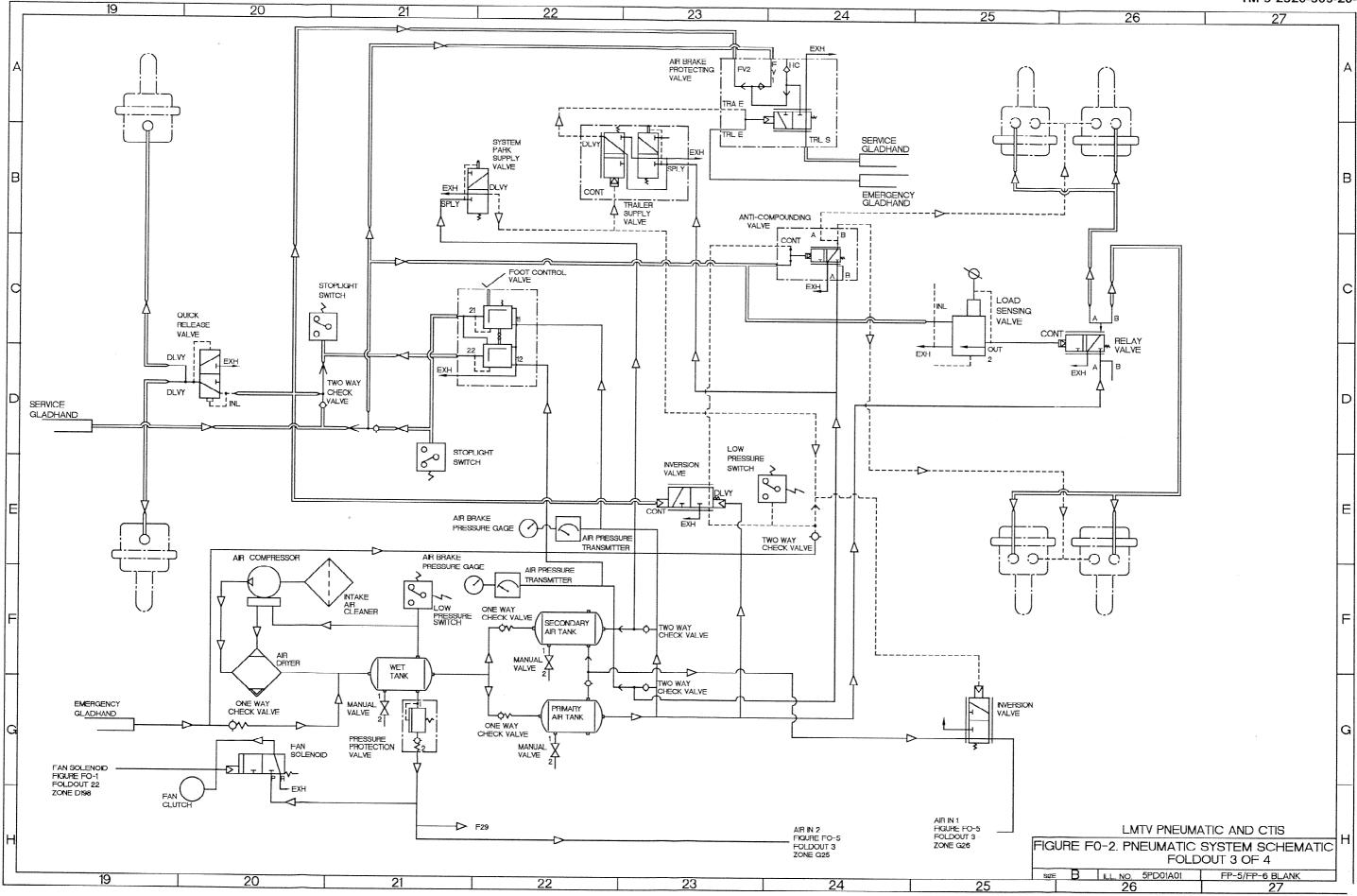


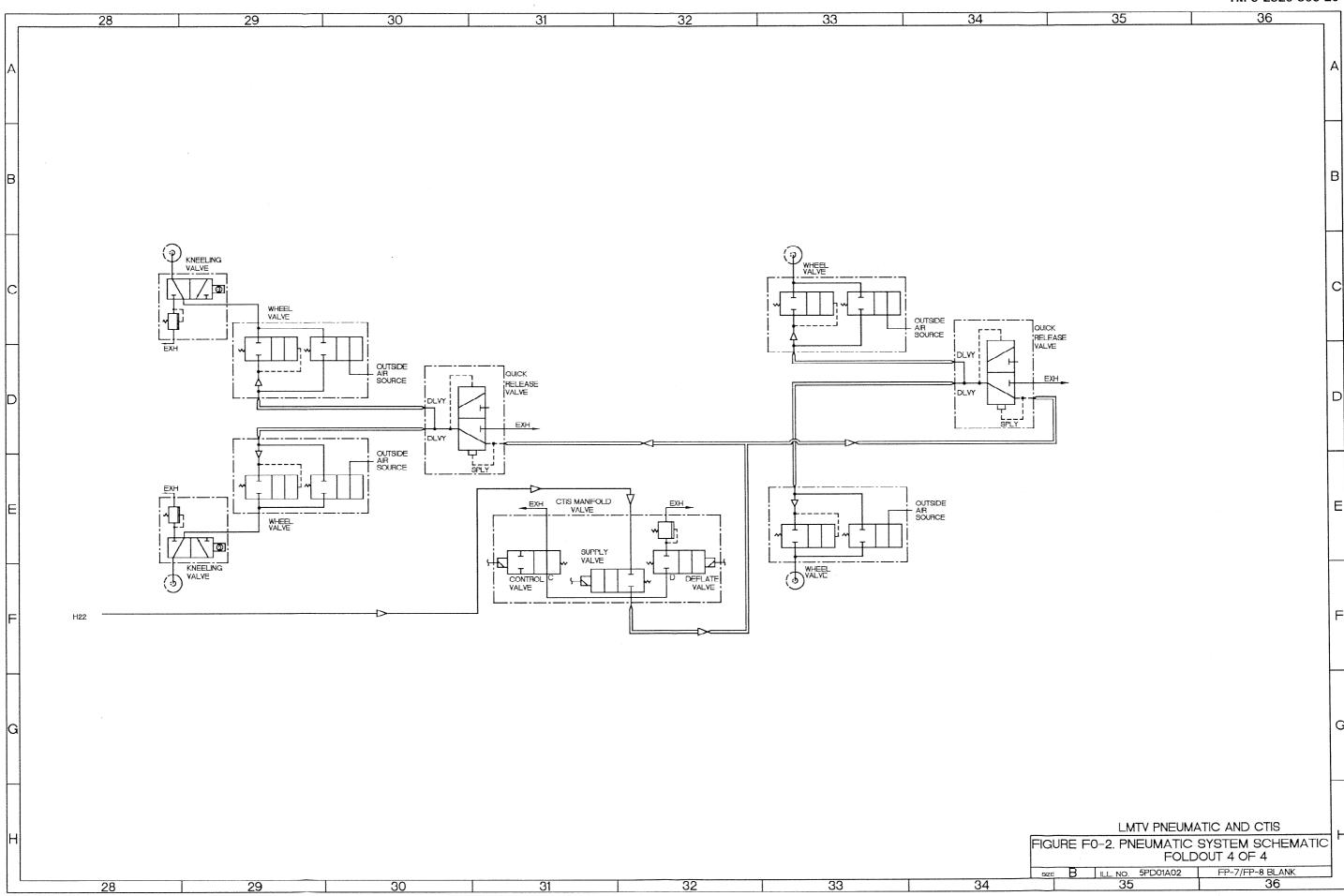


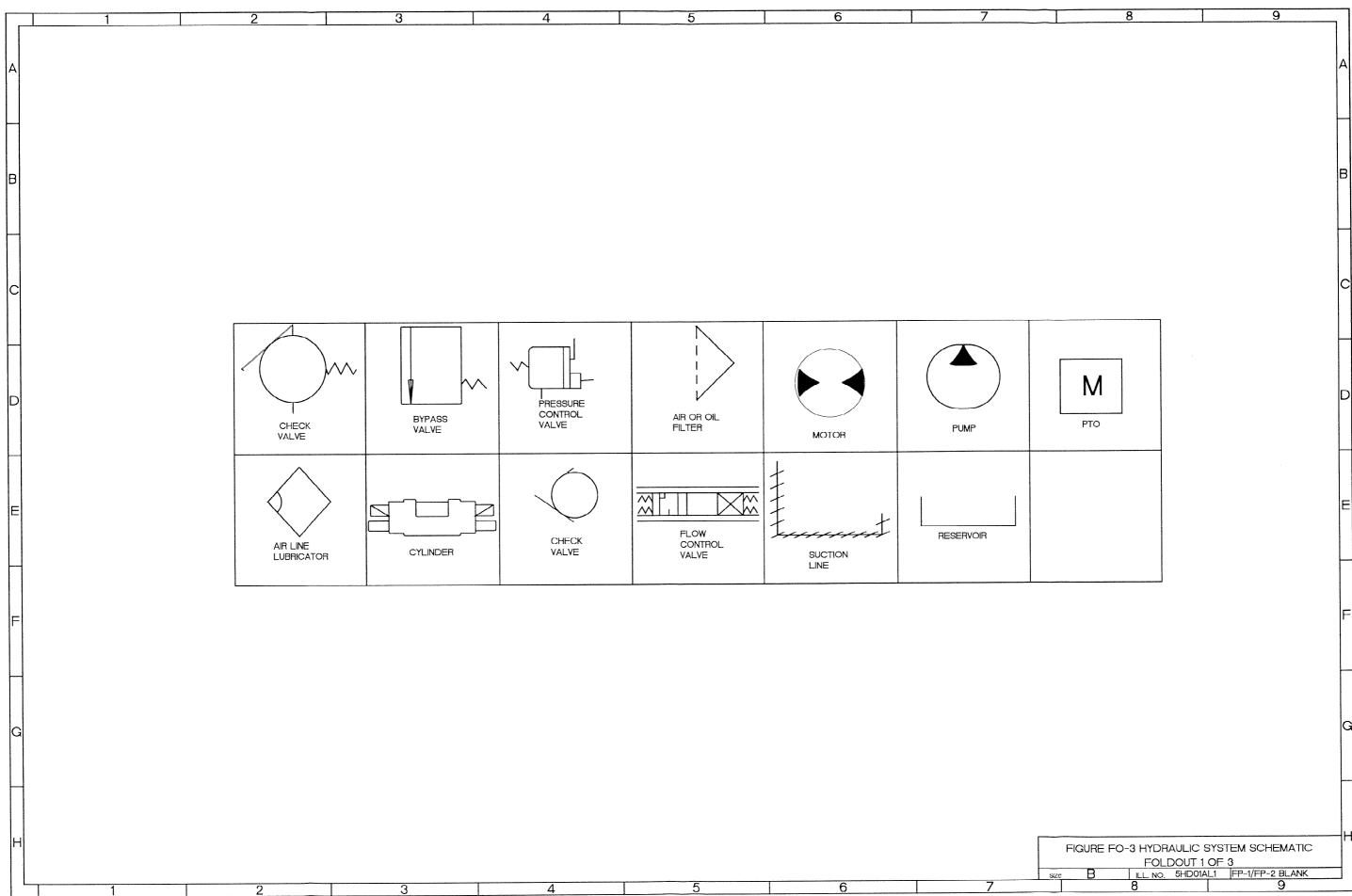


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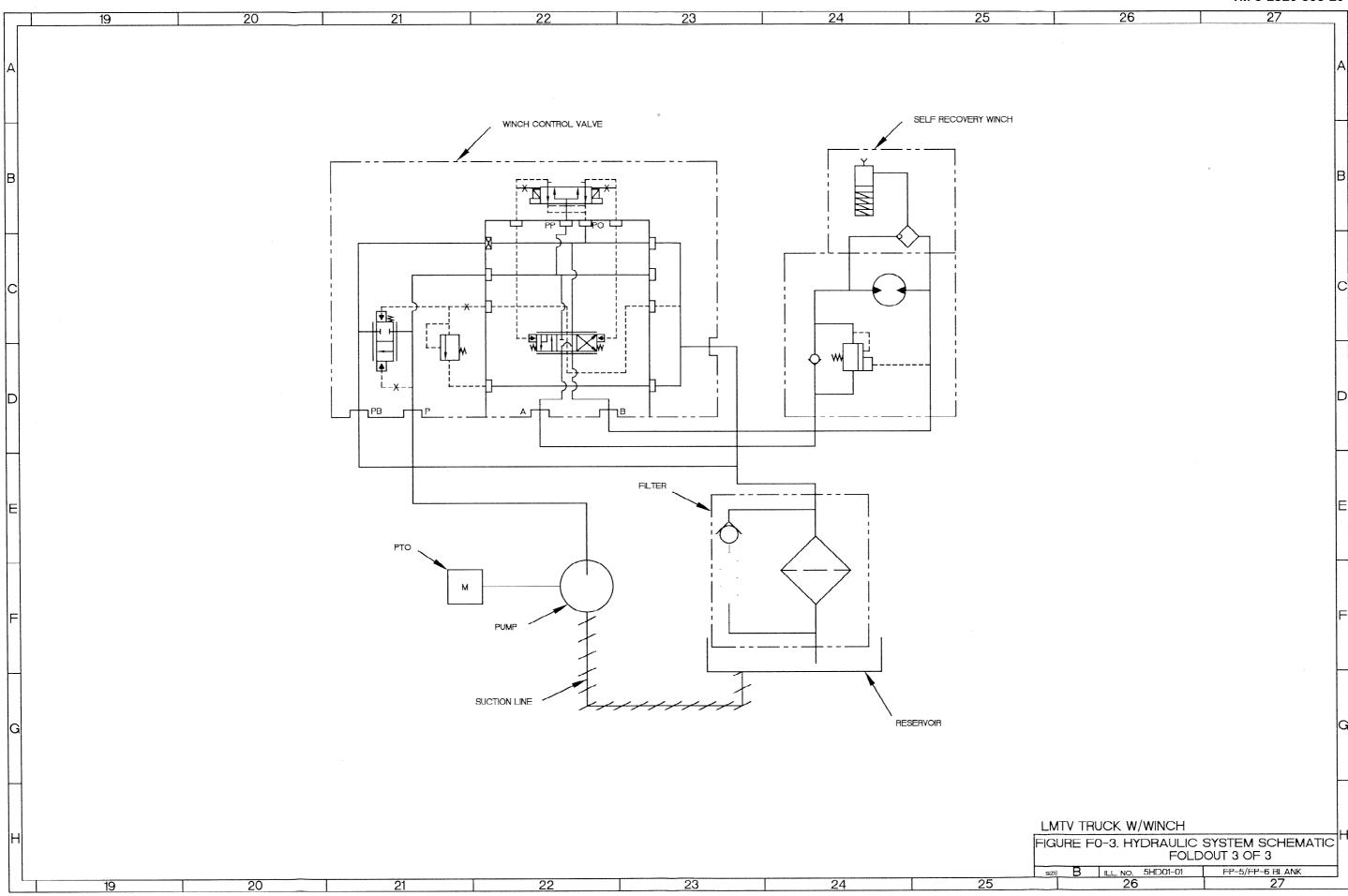
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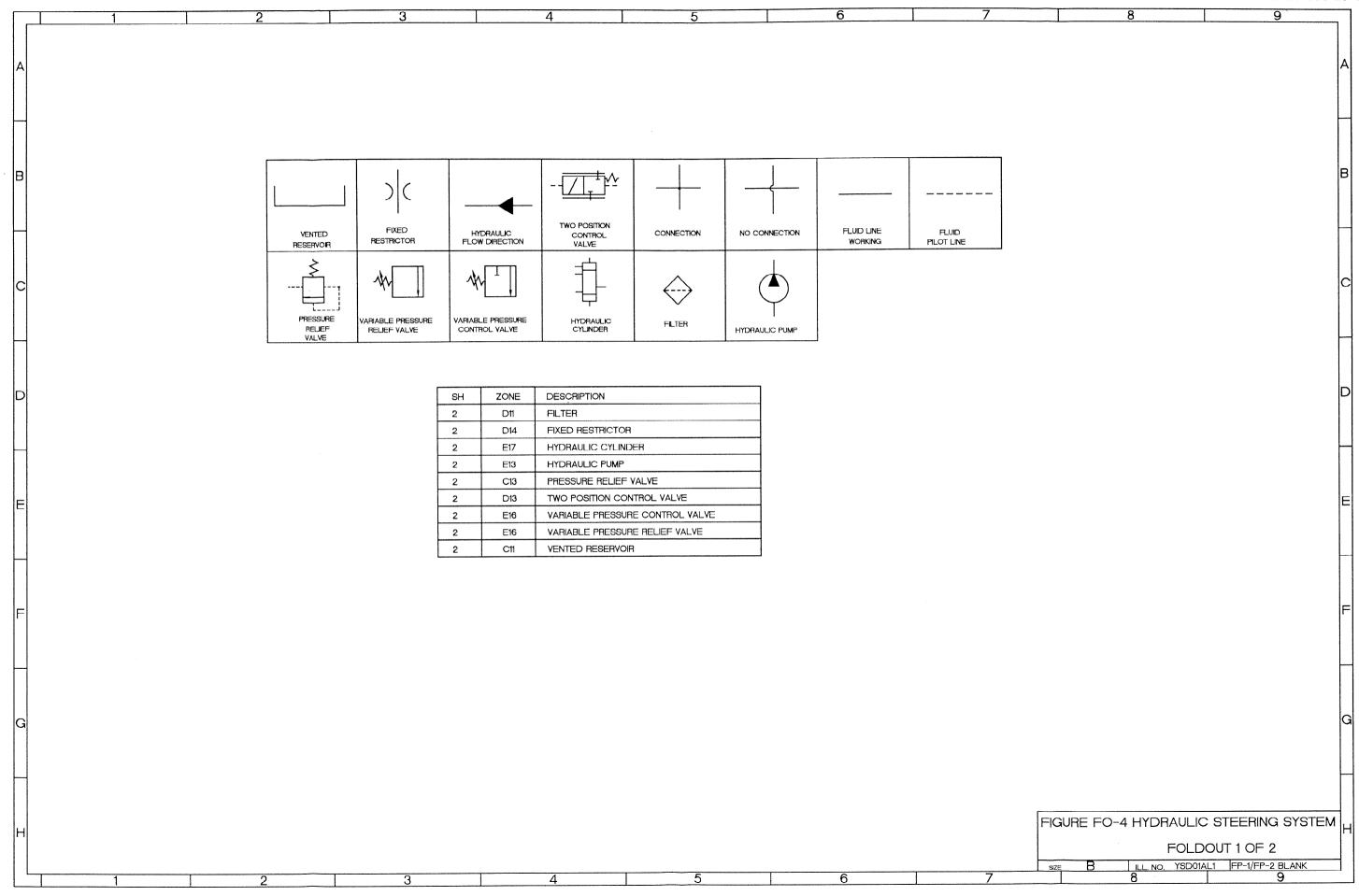


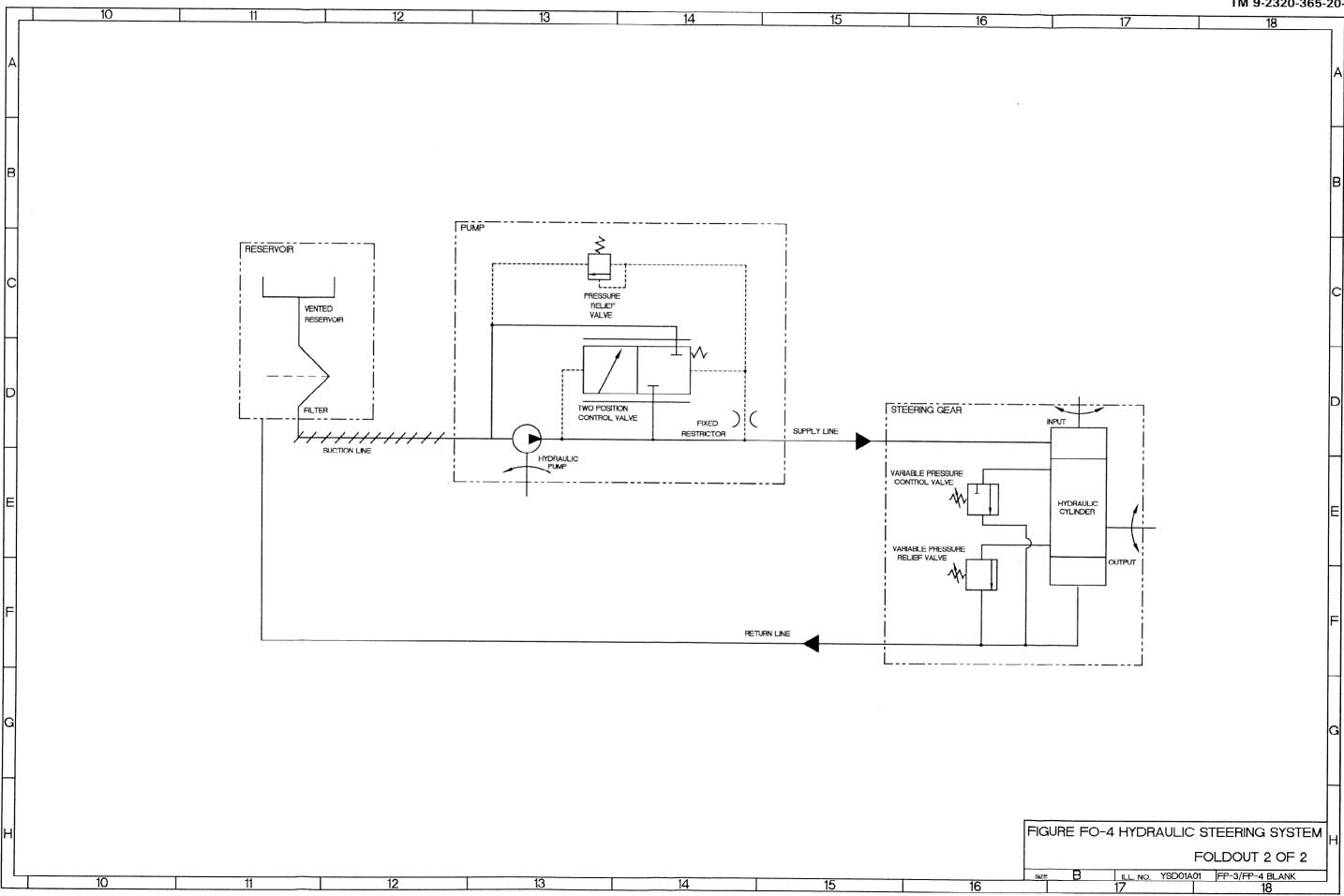




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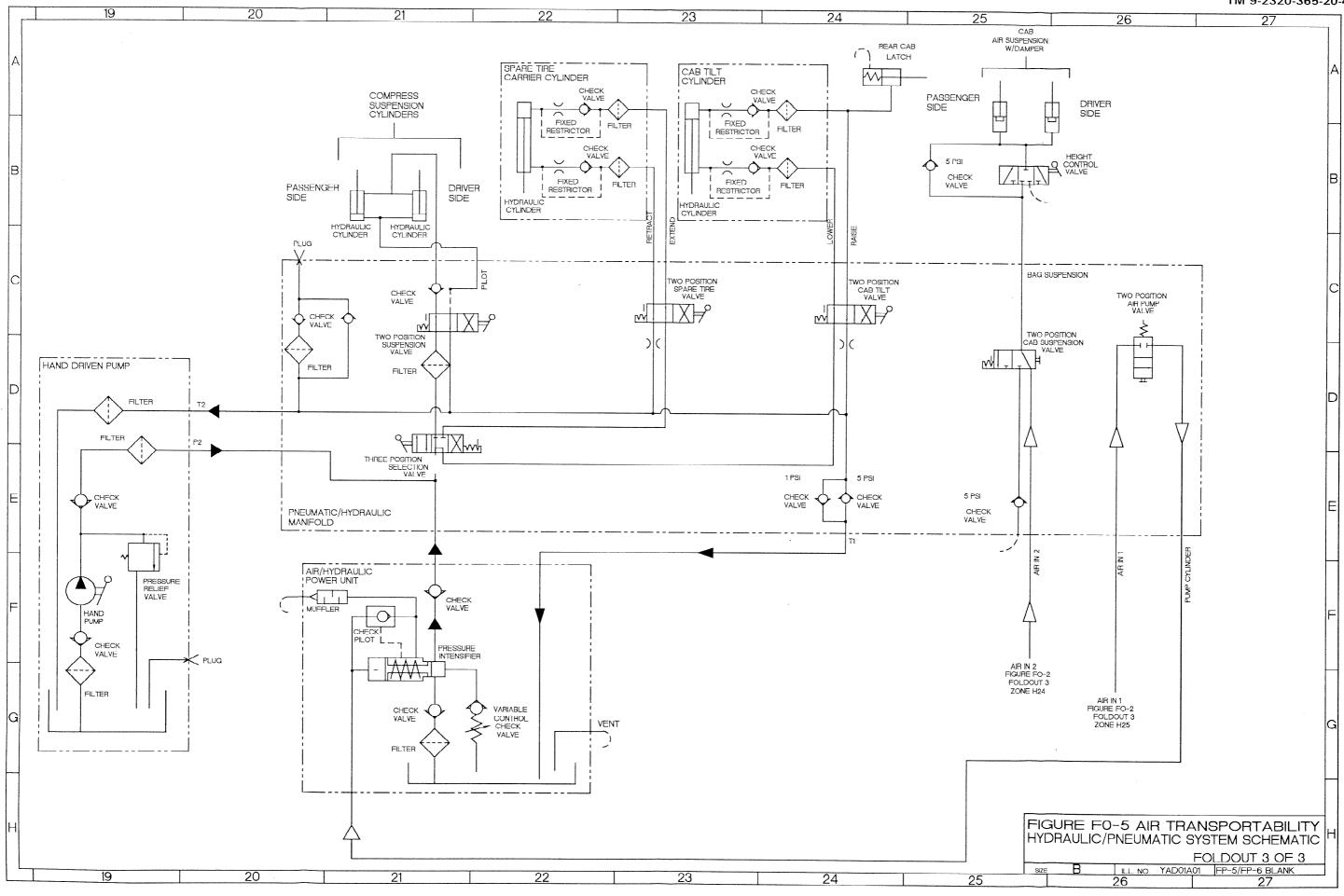






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	3 D21	TWO POSITION SUSPENSION VALVE	-		
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### By Order of the Secretary of the Army:

DENNIS J. REIMER General, United States Army Chief of Staff

Official:

Administrative Assistant to the Secretary of the Army 04994

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PUBLICATION DATE PUBLICATION NUMBER PUBLICATION TITLE TECHNICAL MANUAL MAINTENANCE INSTRUCTIONS TM 9-2320-365-20-4 XXX UNIT MAINTENANCE BE EXACT ... PINPOINT WHERE IT IS IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT: 15-33 15-7 4 Item 10. Change Illustration. Reason: Text calls out 90-degree fitting, art shows straight fitting. Text is correct. 19-6 19-2 Step (4) of removal says to disconnect four hydraulic hoses from manifold. The correct number of hydraulic hoses is five. Correct the text to reflect the actual quantity of hydraulic hoses. The supporting illustration is correct. PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER SIGN HERE: Your title and telephone number Your signature

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#### THE METRIC SYSTEM AND EQUIVALENTS

#### **LINEAR MEASURE**

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches

1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches

1 Kilometer = 1000 Meters = 0.621 Miles

#### SQUARE MEASURE

1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches 1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet

1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles

#### **WEIGHTS**

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces

1 Kilogram = 1000 Grams = 2.2 Lb

1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

#### **CUBIC MEASURE**

1 Cu Centimeter = 1000 Cu Millimeters = 0.06 Cu Inches

1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet

#### LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces

1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

#### **TEMPERATURE**

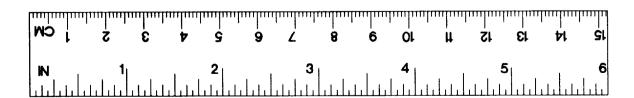
5/9 (°F - 32) = °C

212° Fahrenheit is equivalent to 100° Celsius 90° Fahrenheit is equivalent to 32.2° Celsius 32° Fahrenheit is equivalent to 0° Celsius

 $9/5 \, \text{C}^{\,\circ} + 32 = \text{F}^{\,\circ}$ 

#### **APPROXIMATE CONVERSION FACTORS**

TO CHANGE	<u>TO</u>	MULTIPLY BY	TO CHANGE	TO MULTI	PLY BY
Inches			••••••••••	Inches	
Feet			***************************************	Feet	
Yards				Yards	
Miles			Kilometers	Miles	0.621
Square Inches		rs . 6.451	Sq Centimeters	Square Inches	0.155
Square Feet	Square Meters .	0.093	Square Meters	Square Feet 1	0.764
Square Yards	Square Meters .	0.836	Square Meters	Square Yards	1.196
Square Miles	. Square Kilometer	s 2.590	•	Square Miles	
Acres	. Square Hectomet	ers 0.405	•	Acres	
Cubic Feet	Cubic Meters	0.028	Cubic Meters	Cubic Feet 3	5.315
Cubic Yards	Cubic Meters	0.765	Cubic Meters	Cubic Yards	1.308
Fluid Ounces	. Milliliters	29.573	Milliliters	Fluid Ounces	0.034
Pints	. Liters	0.473	Liters	Pints	2.113
Quarts	. Liters	0.946	Liters	Quarts	1.057
Gallons	. Liters	3.785	Liters	Gallons	0.264
Ounces	. Grams	28.349	Grams	Ounces	0.035
Pounds	. Kilograms	0.454	Kilograms	Pounds	2.205
Pounds (force)	Newtons	4.448	Newtons	Pounds (force) 0	.2248
Short Tons	. Metric Tons	0.907	Metric Tons	Short Tons	1.102
Pound-Feet	. Newton-Meters .	1.356	Newton-Meters	Pound-Feet	0.738
Pounds/Sq Inch	. Kilopascals	6.895	Kilopascals	Pounds per Sq Inch	0.145
Miles per Gallon	. Kilometers per Ho	our 0.425	Km per Liter	Miles per Gallon	2.354
Miles per Hour	•	our 1.609	Km per Hour	Miles per Hour	0.621



PIN: 076697-000