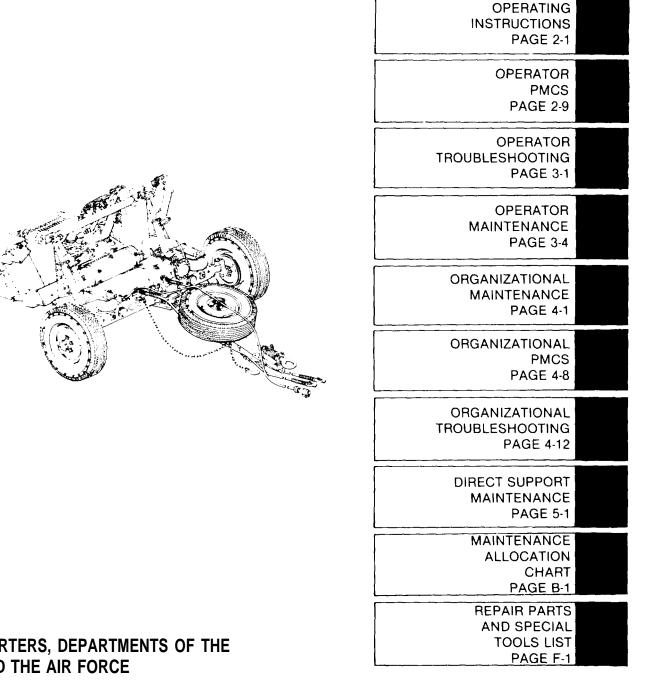
TM 9-2330-285-14&P/TO 36A11-21-10-1

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS)

DOLLY SET, LIFT, TRANSPORTABLE SHELTER, 3-TON M720 (NSN 2330-00-912-4251)



HEADQUARTERS, DEPARTMENTS OF THE **ARMY AND THE AIR FORCE**

APRIL 1984

WARNING

USING DRYCLEANING SOLVENT

Drycleaning solvent PD-680 is both toxic and flammable. Avoid prolonged breathing of vapors and avoid skin contact. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (59°C). Serious injury or death could result.

WARNING

WEAR GOGGLES FOR DRAINING HIGH PRESSURE AIR

Failure to wear goggles when opening air reservoir draincock could cause serious eye injury.

WARNING

Brake lining material contains asbestos. Breathing of dust from linings is extremely hazardous. Wear a filter mask whenever working with brake shoes.

WARNING

Operating the dolly set on the highway without the struts and clamps attached could cause loss of control and serious injury to personnel.

WARNING

All personnel not involved with task of lowering the dolly should stay clear. When dolly set is lowered, personnel performing task should keep limbs from under it to prevent injury.

WARNING

The return spring inside the brake chamber is under very heavy tension. The two halves of the chamber must be clamped together in a vise before removing all of the screws and nuts which hold it together. Failure to do so could cause serious injury.

WARNING

Particles blown by compressed air are hazardous. Do not exceed 30 psi (207 kPa) air pressure. Make certain the air stream is directed away from user and other personnel in the area. To prevent injury, user must wear safety eye goggles or face shield when using compressed air.

HEADQUARTERS DEPARTMENT OF THE ARMY Washington D.C., 7 December 1989

OPERATOR, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS)

DOLLY SET, LIFT, TRANSPORTABLE SHELTER, 3-TON M720 (NSN 2330-00-912-4251)

TM 9-2330-285-14&P/TO36A11-21-10-1, April 1984 is changed as follows:

1. Remove old pages and insert new pages as indicated below.

2. File this change sheet in front of the publication for reference purposes.

| REMOVE PAGES | INSERT PAGES | REMOVE PAGES | INSERT PAGES |
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By Order of the Secretary of the Army:

CARL E. VUONO General, United States Army Chief of Staff

Official:

WILLIAM J. MEEHAN II

Brigadier General, United States Army The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-39-R (Block Nos. 528,529, 530) Operator, Unit, Direct Support and General Support maintenance requirements for Dolly Set, Lift, Transportable Shelter, 3-ton M720. (Cumulative).

CHANGE

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TECHNICAL MANUAL NO. 9-2330-285-1 4&P TECHNICAL ORDER NO. 36A11-21-10-1 HEADQUARTERS DEPARTMENTS OF THE ARMY AND THE AIR FORCE Washington, DC, 24 April 1984

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS)

DOLLY SET, LIFT, TRANSPORTABLE SHELTER, 3-TON M720 (2330-00-912-4251)

Current as of 1 Sep 83

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this publication direct to: US Army Tank-Automotive Command, ATTN: DRSTA-MBP Warren, MI 48090. A reply will be furnished to you.

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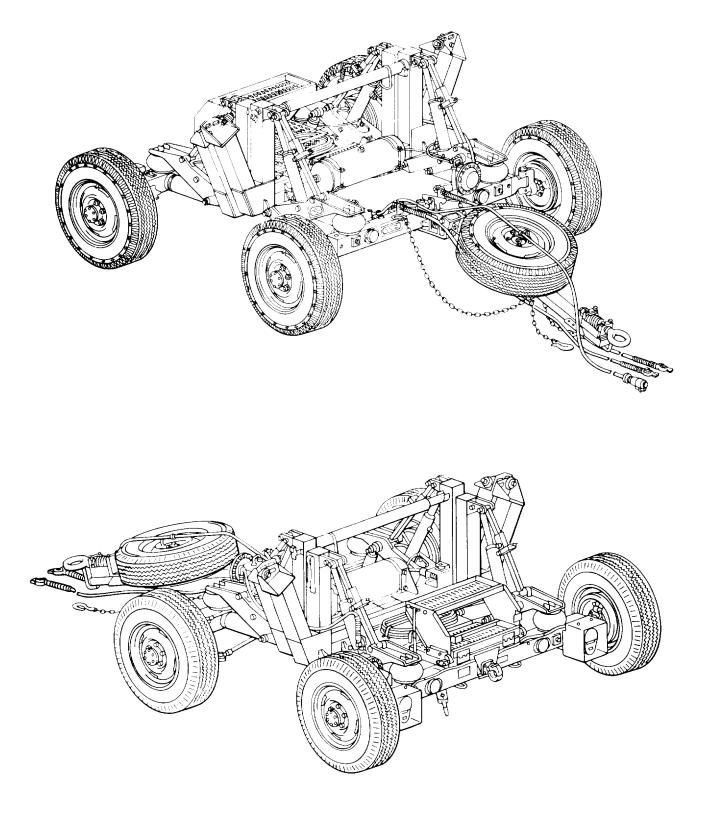
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^{*} This manual supersedes TM 9-2330-285-14&P/TO 36A11-21-10-1 dated 15 May 1974 and all changes.

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CHAPTER 1

INTRODUCTION

OVERVIEW

The purpose of this chapter is to give you information on the 3-ton, transportable shelter dolly set size, shape, features, major equipment, and how it works.

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SCOPE

Type of Manual: Operator's, Organizational, Direct, and General Support Maintenance Manual (Including Repair Parts and Special Tools Lists).

Equipment Name: Dolly Set, Lift, Transportable Shelter, 3-Ton, M720; Composed of: Dolly, Front (M721) and Dolly, Rear (M722).

Purpose of Equipment: The dolly set is used to move a transportable shelter.

MAINTENANCE FORMS AND RECORDS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS).

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Refer to TM 750-244-8, Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use (US Army Tank-Automotive Command).

PREPARATION FOR STORAGE OR SHIPMENT

There are no special storage or shipping procedures.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your dolly set needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design, Put it on an SF 368 (Quality Deficiency Report). Mail it to us at US Army Tank-Automotive Command ATTN: DRSTA-MP, Warren, MI 48090. We will send you a reply.

REFERENCE INFORMATION

This listing includes nomenclature cross-references, abbreviations and an explanation of terms (glossary) used in this manual.

NOMENCLATURE CROSS-REFERENCE LIST

| Common Name | Official Nomenclature |
|-----------------------------|--|
| Dolly set Towing vehicle | Transportable Shelter Lift, Dolly Set Prime Mover |
| LIST OF ABBREVIATIONS | |
| cm kg kPa | Centimeter Kilogram Kilopascal |
| GLOSSARY | |
| Angle of departure | Maximum angle of incline from which a vehicle can move onto a horizontal plane without inter- ference (for instance, from the rear frame). |
| Couple | To link together. |
| Gladhand | Air pressure hose disconnect coupling. To couple, link two ends together at right angles and with a rotating, sliding motion, bring hoses in line with one another. |

Section II EQUIPMENT DESCRIPTION AND DATA

| Page | | Page |
|--|--|------|
| Equipment Characteristics, Capabilities, and Features | Location and Description of Data Plates Location and Description of Major Components1 | - |

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

Characteristics

The dolly set consists of one front dolly for attaching to the shelter front and one rear dolly for attaching to the shelter rear.

The earlier model dolly sets can operate from either a 12- or 24-volt military electrical system power supply. Later models can operate only on 24-volts.

The rear dolly has a non-quick release towing pintle assembly.

The dolly set can raise and lower the transportable shelter by means of a hand-operated hydraulic pump and two hydraulic lift cylinders on each dolly.

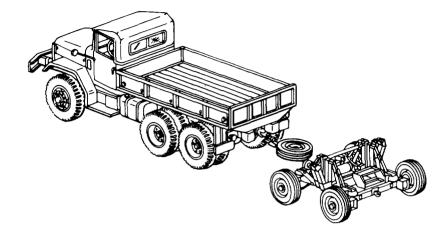
The rear dolly has a toolbox containing two leveling jack pump handles, one wheel nut wrench and one envelope containing the dolly set technical manual. Coiled and secured to the top of the toolbox is the interdolly harness assembly.

Capabilities and Features

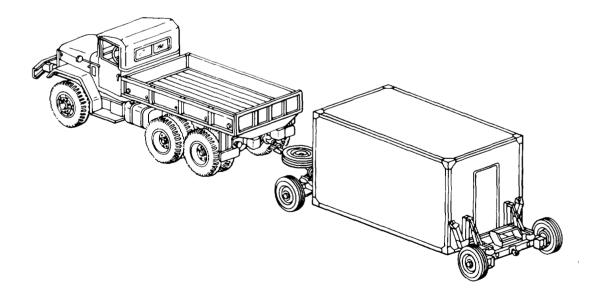
Towing speed limitations are as follows:

Highway: 50 mph Cross-country: 15 mph

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES - CONTINUED

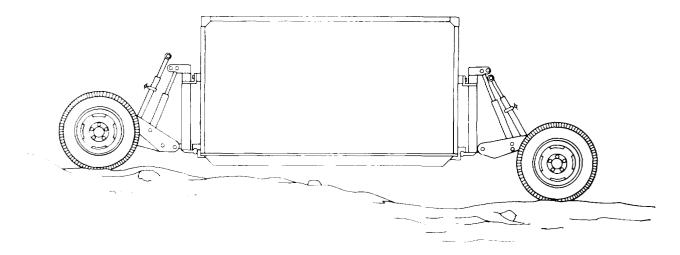


The M720 dolly set can be transported or stored while coupled together.



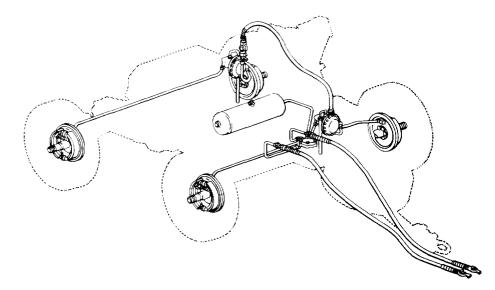
The M720 dolly set can be used to move a transportable shelter.

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES - CONTINUED



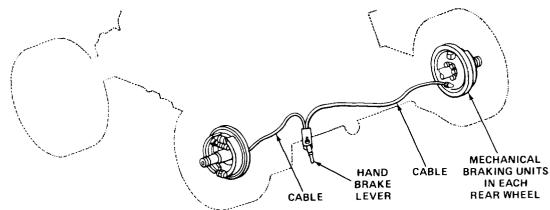
The M720 dolly set can be used to level a shelter on uneven ground.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

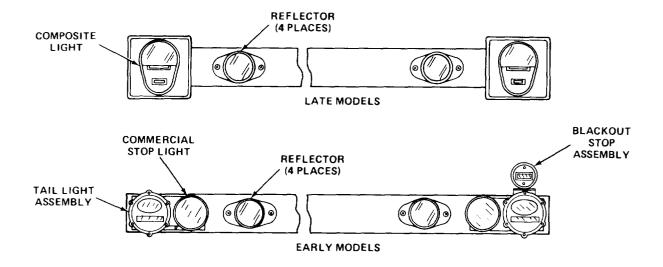


The M720 dolly set has an air over hydraulic braking system.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED



The M720 dolly set has a mechanical parking brake system on the rear dolly.



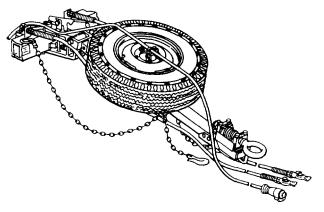
The M720 dolly set has two rear and two front red reflectors. Later models of the dolly are equipped with two composite marker light assemblies, each consisting of a 24-volt stop and turn signal, taillight, blackout marker, and blackout stoplight. Earlier models are equipped with one blackout stoplight, two commercial stoplights, and two taillights, which also contain turn signals and blackout taillights.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED

The M720 dolly set has an intervehicular cable, junction box, inner harness, interdolly cable, and rear trailer dolly harness assembly.



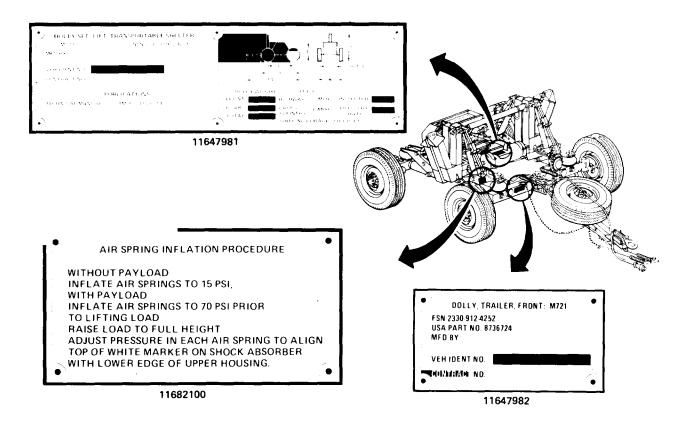
The M720 dolly set has a hydraulic lift system to lift the shelter.



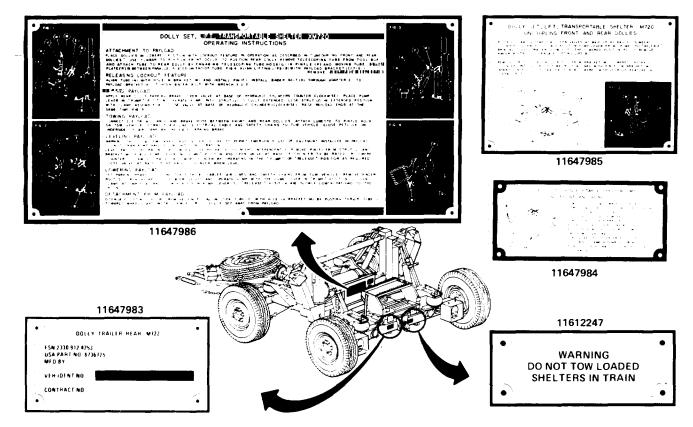
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED

The towbar is used to steer the dolly set. It also is used to store the spare tire. The lunette is spring loaded to absorb towing shock loads.

LOCATION AND DESCRIPTION OF DATA PLATES



The front dolly data plates consist of uncoupling instructions, dolly set identification plate, front dolly identification plate, and air springs inflation instructions.



LOCATION AND DESCRIPTION OF DATA PLATES - CONTINUED

The rear dolly data plates consist of uncoupling instructions, coupling instructions, operating instructions, rear dolly identification plate, and towing warning plate.

EOUIPMENT DATA

Operator/Crew

| Model number | M720 2 1/2- or 5-ton Military Prime Mover -65°F(-54°C)to 160°F(71°C) |
|-----------------------------|--|
| Weight | |
| Empty, | 2080 lb (944 kg) |
| Payload | 6000 lb (2724 kg) |
| Total | 8080 lb (3668 kg) |
| Overall dimensions | |
| Ground clearance | 16 in. (40.6 cm) |
| Height (towing bar lowered) | 44 in. (111.8 cm) |
| Width | 96 in. (243.9 cm) |
| Length (without load) | |
| Towing bar lowered | 148 in. (376 cm) |
| Towing bar raised | 93 in. (236.2 cm) |
| Angle of departure | 30° slope |

TA 221616

EQUIPMENT DATA - CONTINUED

Operator/Crew - Continued

| Maximum towing speed | | | |
|--|--|--|--------------------------------------|
| | | | 50 mph 15 mph |
| Cross-country | | | 15 1101 |
| Highway service | | | 50 psig (344.8 kPa) |
| Cross-country service and airtr | | | |
| Voltage at dolly lights | • | | 24 vdc |
| Air mount pressure | | | |
| Payload | Load off | Load on | |
| | 26 poin (170 kDo) | 26 pair (249 kDa) | |
| 3000 lb (1362 kg) 4000 lb (1816 kg) | 26 psig (179 kPa) 32 psig (221 kPa) | 36 psig (248 kPa) 44 psig (303 kPa) | |
| 5000 lb (2270 kg) | 43 psig (296 kPa) | 58 psig (400 kPa) | |
| 6000 lb(2724 kg) | 52 psig (358 kPa) | 70 psig (483 kPa) | |
| 0000 lb(2721 kg) | o_ po.g (ooo a) | | |
| Organizational/Direct and General | Support | | |
| Brakes | | | |
| Actuation | | | Pneumatically actuated, |
| | | | hydraulically operated |
| Type of mechanism | | | Internal expanding, self-entering |
| Manufacturer | | | Bendix Corporation |
| Air Mount Assembly | | | |
| Quantity | | | 4 each |
| Manufacturer | | | Firestone Industrial Products |
| Hand Hydraulic Pump | | | |
| Rated pressure | | | 6000 psig (41370 kPa) |
| Manufacturer, | | | Applied Power Industries, Inc. |
| Hydraulic Cylinder | | | |
| Operating pressure (maximum) | | | 6000 psig (41370 kPa) |
| Hydraulic fluid | | | MIL-H-5606 (non-petroleum |
| / . | | | base) |
| Reservoir Air Pressure (maximum |) | | 150 psig (1034.3 kPa) |
| Tires Type | | | 9 ply |
| Size | | | 8 ply 700 x 16 |
| Number (including spare) | | | 5 |
| | | | • |

Section III PRINCIPLES OF OPERATION

| | Page | | Page |
|---------------------------------|------|-----------------------|------|
| Air Over Hydraulic Brake System | 1-11 | Hydraulic Lift System | 1-12 |

AIR OVER HYDRAULIC BRAKE SYSTEM

INTERVEHICULAR EMERGENCY HOSE - Supplies air to the dolly set to fill the air reservoir and initiates an emergency brake application.

INTERVEHICULAR SERVICE HOSE - Provides an air pressure signal from the towing vehicle which can tell the relay valve to apply or release the dolly set brake system.

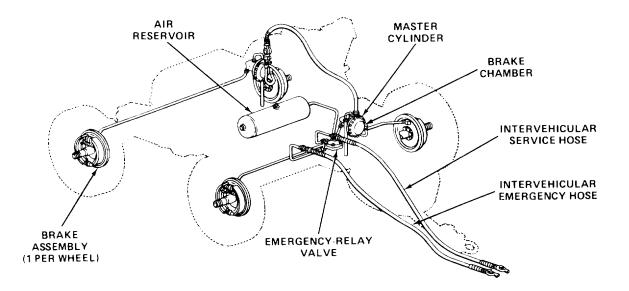
AIR RESERVOIR - Provides the air supply to apply the brakes.

EMERGENCY RELAY VALVE - Applies and releases the dolly set braking system.

BRAKE CHAMBERS - Use air pressure to operate the hydraulic master cylinders.

MASTER CYLINDERS - Provide the hydraulic pressure to apply the dolly set braking system.

BRAKE ASSEMBLIES - Operate by hydraulic pressure to stop the dolly set. There is one brake assembly on each wheel.



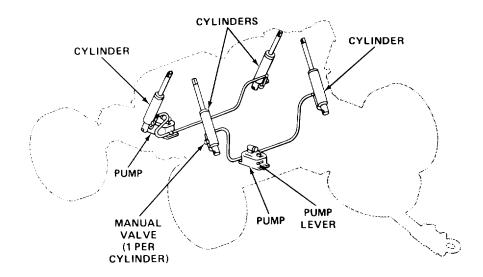
HYDRAULIC LIFT SYSTEM

PUMPS - Provide the hydraulic pressure to operate the hydraulic system. Operate by hand pump.

PUMP LEVER - Places the pump in an operating position or releases the pump pressure depending on its position.

CYLINDERS - Provide the system lifting power. They are actuated by hydraulic pressure. The dolly set has four hydraulic cylinders.

MANUAL VALVES - Allow each hydraulic cylinder to be independently controlled. One manual valve is located at each cylinder.



CHAPTER 2

OPERATING INSTRUCTIONS

OVERVIEW

This chapter describes the dolly set controls and contains operator/crew preventive maintenance procedures. There are instructions for driving, stopping, parking and backing. There are also instructions for coupling and uncoupling the dolly set to a shelter. Instructions are provided for operation under usual and unusual conditions.

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| Section I | Description and Use of Operator's Controls | 2-1 |
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| | Operator/Crew Preventive Maintenance Checks and Services (PMCS) | |
| Section III Operation Under Usual Conditions | | 2-16 |
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Section I DESCRIPTION AND USE OF OPERATOR'S CONTROLS Page

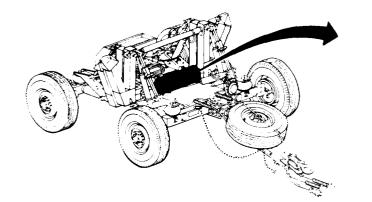
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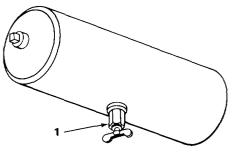
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| Dolly to Shelter Connections | 2-5 |
| Folding Stairway | 2-4 |
| Hydraulic Lift System | 2-5 |
| Parking Brake | 2-6 |

| Pintle | 2-4 |
|--|-----|
| Toolbox | 2-8 |
| Towing Vehicle to Dolly Connections | |

AIR RESERVOIR

1





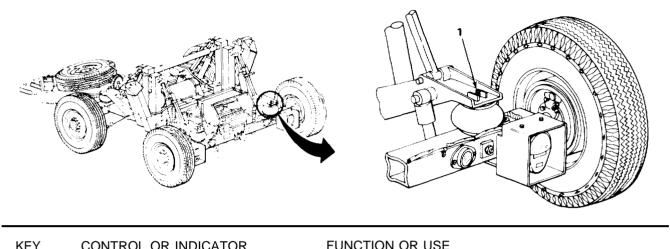
VIEW LOOKING UP

KEYCONTROL OR INDICATORFUNCTION OR USE

Reservoir draincock

Used to drain air and/or water from dolly brake system. Located at the rear of front dolly.

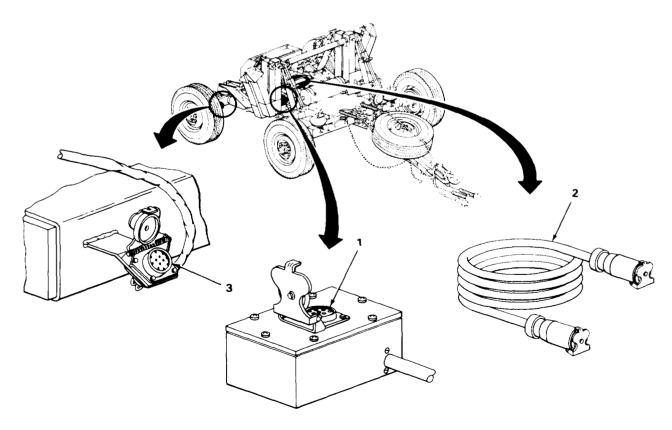
AIR SPRINGS



| | FUNCTION OR USE | |
|--|-----------------|--|
| | | |
| | | |

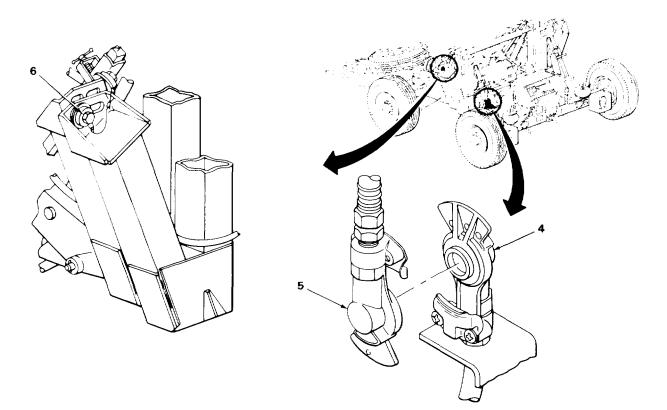
Four air spring valves Used to let air into or out of the air springs.

DOLLY TO DOLLY CONNECTIONS

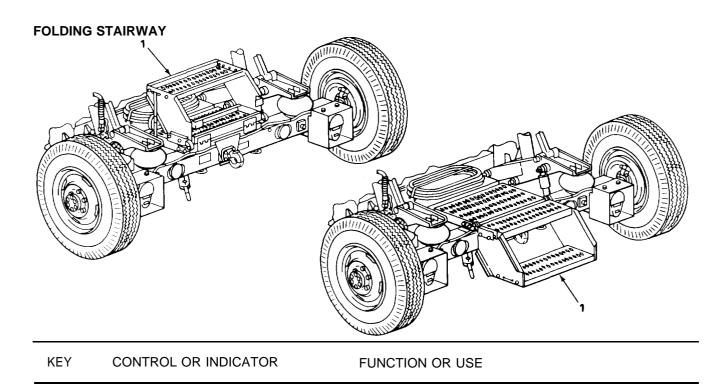


| KEY | CONTROL OR INDICATOR | FUNCTION OR USE |
|-----|------------------------|--|
| 1 | Front dolly receptacle | Connects interdolly cable to front dolly. Located on junction box. |
| 2 | Interdolly cable | Supplies electrical power from front to rear dolly. |
| 3 | Rear dolly receptacle | Connects interdolly cable to the rear dolly. Located on rear axle. |

DOLLY TO DOLLY CONNECTIONS - CONTINUED



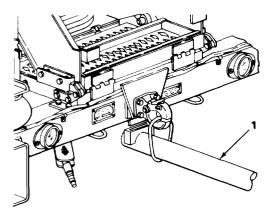
| KEY | CONTROL OR INDICATOR | FUNCTION OR USE |
|-----|-------------------------------|---|
| 4 | Rear dolly gladhand connector | Connects interdolly airhose to the rear dolly braking system. |
| 5 | Interdolly airhose | Connects braking systems of front and rear dollies together. |
| 6 | Binder bolts | Used to secure front and rear dollies together. TA 221621 |



1 Folding stairway

Allows easy access to rear door of the shelter when it is attached to the dolly set.

POSITIONING BAR



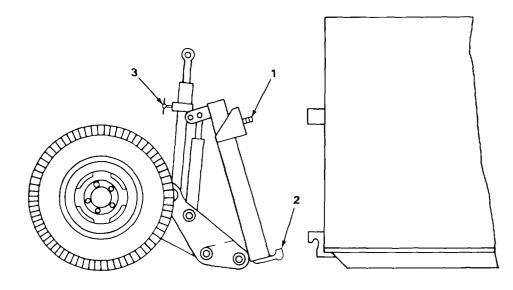
KEY CONTROL OR INDICATOR

FUNCTION OR USE

1 Positioning bar

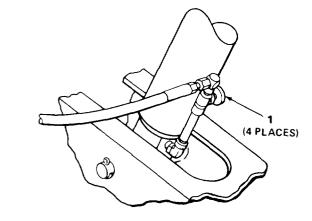
Used to maneuver the rear dolly when attaching it to the shelter.

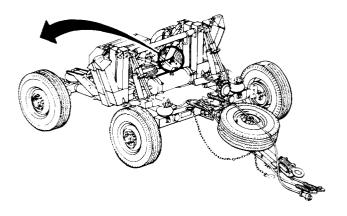
DOLLY TO SHELTER CONNECTIONS



| KEY | CONTROL OR INDICATOR | FUNCTION OR USE |
|-----|----------------------|--|
| 1 | Binder bolts | Used to secure dollies to the shelter. |
| 2 | Lifting lips | Used to support the weight of the shelter. |
| 3 | Strut clamps | Used to lock struts after shelter is lifted. |

HYDRAULIC LIFT SYSTEM





KEY CONTROL OR INDICATOR

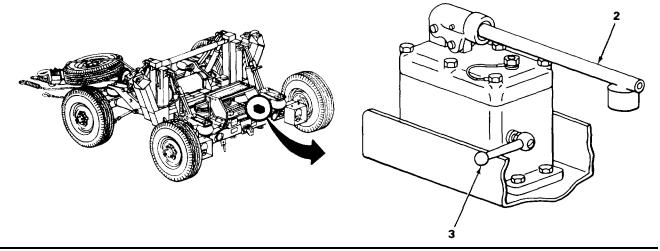
FUNCTION OR USE

| 1 | Manual | control | valves | |
|---|--------|---------|--------|--|
| | | | | |

Used to lock hydraulic cylinders in the raised position after shelter is loaded.

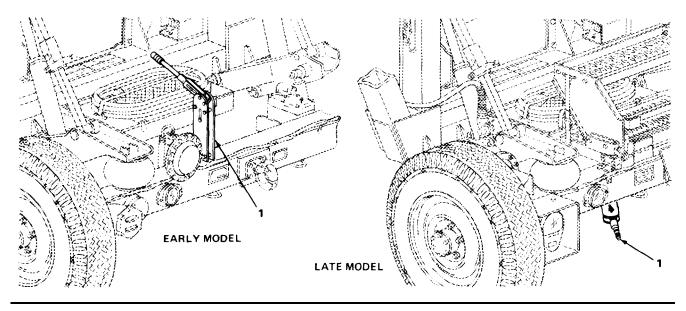
TA 221623

HYDRAULIC LIFT SYSTEM - CONTINUED



| KEY | CONTROL OR INDICATOR | FUNCTION OR USE |
|-----|----------------------|--|
| 2 | Pump handle | Used to operate hydraulic pumps. Pumping the handle will raise shelters. |
| 3 | Pump lever | Used to control the raising and lowering of hydraulic system. |

PARKING BRAKE



KEY CONTROL OR INDICATOR FUNCTION OR USE

1 Parking brake lever

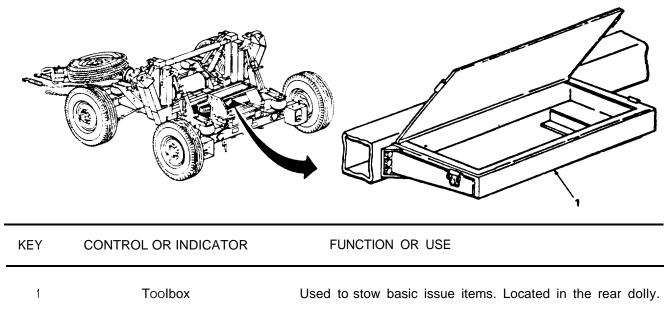
Used to apply and release parking brake. The lever may be located above or below the axle beam, depending on the model.

PINTLE

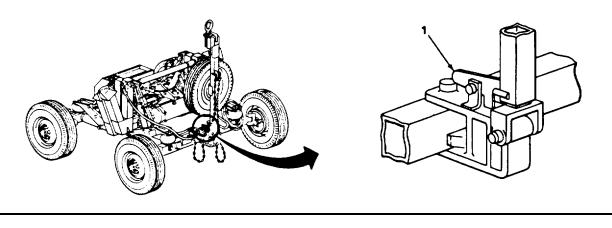
| KEY | CONTROL OR INDICATOR | FUNCTION OR USE |
|---------|----------------------|---|
| 1 | Pintle | Used to secure positioning lever to rear dolly to aid in attachment to shelter. |
| SPARE T | | |
| KEY | CONTROL OR INDICATOR | FUNCTION OR USE |
| 1 | Spare tire mountings | Used to secure spare tire to towbar. |

TA 221625

TOOLBOX



TOWBAR UPLOCK

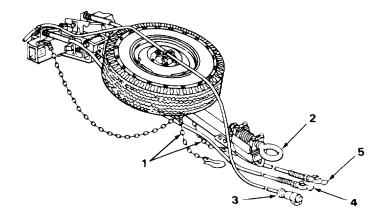


| KEY | CONTROL OR INDICATOR | FUNCTION OR USE | |
|-----|----------------------|-----------------|--|
| | | | |

1 Towbar uplock

Used to stow towbar by holding it in a vertical position.

TOWING VEHICLE TO DOLLY CONNECTIONS



| KEY | CONTROL OR INDICATOR | FUNCTION OR USE |
|-----|---|--|
| 1 | Safety chains | Used to secure dolly to the towing vehicle if dolly should accidently become unhooked. |
| 2 | Lunette | Used to attach the dolly to the towing vehicle. |
| 3 | Intervehicular cable | Used to carry electrical power from towing vehicle to dolly. |
| 4 | Intervehicular emer- gency brake airhose | Used to connect emergency brake system of towing vehicle to the dolly. |
| 5 | Intervehicular service brake airhose | Used to connect service brake system of towing vehicle to the dolly. |

Section II OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

| Page | | Page |
|---------|---|------|
| General | • | |

GENERAL

This section contains PMCS for the M720 Dolly Set. The procedure lists checks, services, and criteria to ensure that the dolly set is prepared for operation. Perform the checks and services at the specified intervals, keeping in mind the following guidelines:

Do your before (B) PMCS just before you operate the vehicle. Pay attention to the CAUTIONS and WARNINGS.

Do your during (D) PMCS during operation. (During operation means to monitor the vehicle and its related components while it is actually being operated.)

Do your after (A) PMCS right after operating the vehicle. Pay attention to the CAUTIONS and WARNINGS.

Do your (W) PMCS weekly.

Do your (M) PMCS monthly.

SPECIAL INSTRUCTIONS

If something doesn't work, troubleshoot it with the instructions in this manual and notify your supervisor.

Always do your preventive maintenance in the same order so it gets to be a habit. Once you've had some practice, you'll spot anything wrong in a hurry.

If anything looks wrong and you can't fix it, write it on your DA Form 2404. If you find something seriously wrong, report it to organizational maintenance immediately.

When you do your preventive maintenance, take along the tools you need to make all the checks. You always need a rag or two.

WARNING

Drycleaning solvent PD-680 is both toxic and flammable. Avoid prolonged breathing of vapors and avoid skin contact. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (59°C). Serious injury or death may result.

- 1. Keep it clean: Dirt, grease, oil, and debris only get in the way and may cover up a serious problem. Clean as you work and as needed. Use drycleaning solvent PD-680 on al metal surfaces. Use soap and water when you clean rubber or plastic material.
- 2. Bolts, nuts, and screws: Check them all for obvious looseness, missing, bent, or broken condition. You can't try them all with a tool, but look for chipped paint, bare metal, or rust around boltheads. If you find one you think is loose, tighten it, or report it to organizational maintenance if you can't tighten it.
- 3. Welds: Look for loose or chipped paint, rust, or gaps where parts are welded together. If you find a bad weld, report it to organizational maintenance.
- Electric wires and connectors: Look for cracked or broken insulation, bare wires, and loose or broken connectors. Tighten loose connectors and make sure the wires are in good shape.

SPECIAL INSTRUCTIONS - CONTINUED

5. Hoses and fluid lines: Look for wear, damage, and leaks, and make sure clamps and fittings are tight. Wet spots show leaks of course. But a stain around a fitting or connector can mean a leak. If a leak comes from a loose fitting or connector, tighten it. If something is broken or worn out, report it to organizational maintenance.

It is necessary for you to know how fluid leakage affects the status of your vehicle. The following are definitions of the types/classes of leakage you need to know to be able to determine the status of your vehicle. Learn and be familiar with them, and remember - when in doubt, notify your supervisor!

Leakage Definitions for Operator/Crew PMCS

- Class I Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.
- Class II Leakage of fluid great enough to form drops but not enough to cause drops to drip from item being checked/inspected.
- Class III Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

CAUTION

When operating with class I or II leaks, continue to check fluid levels in addition to that required in PMCS. Parts without fluid will stop working and/or cause damage to the parts.

ΝΟΤΕ

Equipment operation is allowable with minor leakage (class I or II). Consideration must be given to the fluid capacity in the item being checked/inspected. When in doubt, notify your supervisor.

PMCS COLUMN DESCRIPTION

Item - The order that PMCS should be performed, and also used as a source of item numbers for the TM number column on DA Form 2404 Equipment Inspection and Maintenance worksheet when recording results of PMCS.

Interval - Tells when each check is to be performed.

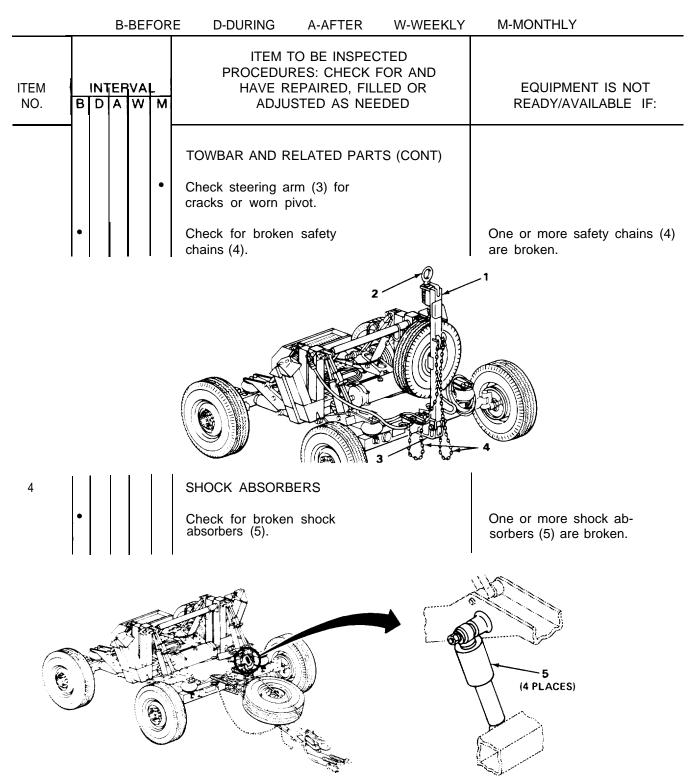
Item To Be Inspected - Lists the checks to be performed.

Equipment is Not Ready/Available - Has an entry only when the dolly set should not be operated or accepted with that problem.

OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES

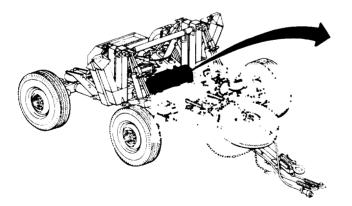
| | B-BEFOR | E D-DURING A-AFTER W-WEEKL | Y M-MONTHLY |
|-------------|-----------|--|--|
| ITEM NO. | B D A W M | ITEM TO BE INSPECTED PROCEDURES: CHECK FOR AND HAVE REPAIRED, FILLED OR ADJUSTED AS NEEDED | EQUIPMENT IS NOT READY/AVAILABLE IF: |
| | | NOTE | |
| | | Perform weekly (W) as well as before (B) PMCS if: | |
| | | a. You are the assigned operator but have not operated the vehicle since the last weekly inspection. | |
| | | b. You are operating the vehicle for the first time. | |
| 1 | | TIRES | |
| | • | Check tires for deep cuts, for- eign objects, or unusual tread wear. Remove stones from between treads. | One or more tires are flat, missing, or unserviceable. |
| | • | Check tires, including spare for correct air pressure. | Spare wheel and tire assembly is missing or unserviceable. |
| | | Highway 50 psi (304 kPa) Cross-country 40 psi (276 kPa) | |
| 2 | | WHEELS | |
| | • | Check wheels for damage and wheel nuts to see that they are tight and all there. | One or more wheels are dam- aged, or one or more wheel nuts are missing. |
| 3 | | TOWBAR AND RELATED PARTS | |
| | • | Check for deformed towbar (1). | Any parts are worn, cracked, or deformed. |
| | • | Check lunette (2) for wear or broken mountings. | |

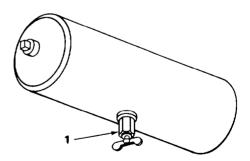
OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES - CONTINUED



OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES - CONTINUED

| | | | B | -BEI | FOR | E D-DURING A-AFTER W-WEE | KLY M-MONTHLY |
|-------------|---|--|---|------|-----|--|---|
| ITEM NO. | | | | | | ITEM TO BE INSPECTED PROCEDURES: CHECK FOR AND HAVE REPAIRED, FILLED OR ADJUSTED AS NEEDED | EQUIPMENT IS NOT READY/AVAILABLE IF: |
| 5 | | | | | | AIR SPRINGS | |
| | • | | | | | Adjust all air springs to the correct pressure for the load being carried. Payload Load off Load on 3000 lb 26 psig 36 psig 4000 lb 32 psig 44 psig 5000 lb 43 psig 58 psig 6000 lb 52 psig 70 psig | |
| 6 | | | | | | AIR RESERVOIR | |
| | | | | | | WARNING | |
| | | | | | | Wear goggles when opening drain- cock on air reservoir. | |
| | • | | | | | Inspect air reservoir for signs of leakage or damage. | |
| | • | | • | | | Open draincock (1) and drain all moisture from reservoir. | |





VIEW LOOKING UP

OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES - CONTINUED

| | | | B· | BEF | ORE | D-DURING A-AFTER | W-WEEKI | LY M-MONTHLY |
|-------------|---|---|----|-----|-----|--|-----------------|---|
| ITEM NO. | | | | | | ITEM TO BE INSPECT PROCEDURES: CHECK FO HAVE REPAIRED, FILLE ADJUSTED AS NEED | DR AND ED OR | EQUIPMENT IS NOT READY/AVAILABLE IF: |
| 7 | | | | | | LIGHTS AND REFLECTORS | | |
| | | | | | | NOTE | | |
| | | | | | | An assistant is required while checking the brake lights. |) | |
| | | • | | | | With the towing vehicle connect ed, operate all lights. | - | Any lights are inoperative. |
| | • | | | | | Check for any broken lenses and reflectors. | | Any lenses or reflectors are broken. |
| 8 | | | | | | HYDRAULIC LIFT SYSTEM | | |
| | | • | | | | Check operation of system. | | System does not operate as it should. |
| 9 | | | | | | PARKING BRAKE | | |
| | | • | | | | Set parking brake lever and try to move dolly set. Be sure both wheels lock on rear dolly. | | One or more wheels do not lock on the rear dolly. |
| 10 | | | | | | BRAKE SYSTEM | | |
| | | • | | | | Move dolly set with towing vehicle and operate brakes. Observe any unusual operation. | | Service brakes do not operate. |
| | | | | | | | | |

| Section III OPERA | TION U Page | NDER USUAL CONDITIONS | Page |
|-------------------|----------------|-----------------------|--------|
| After Use | - | Preparation for Use | . 2-16 |

PREPARATION FOR USE

NOTE

If the dolly set is already in a raised position, go right to step 8.

Perform the operator/crew preventive maintenance checks and services in the before (B) column before doing the procedures below.

Preparing Dolly Set For Transport Without A Shelter

- 1. Open four manual valves (1) by turning handles counterclockwise.
- 2. Turn two pump levers (2) to the RAISE position.
- 3. Remove two hydraulic pump handles (3) from the toolbox (4). Put handles into the two hydraulic pumps (5).

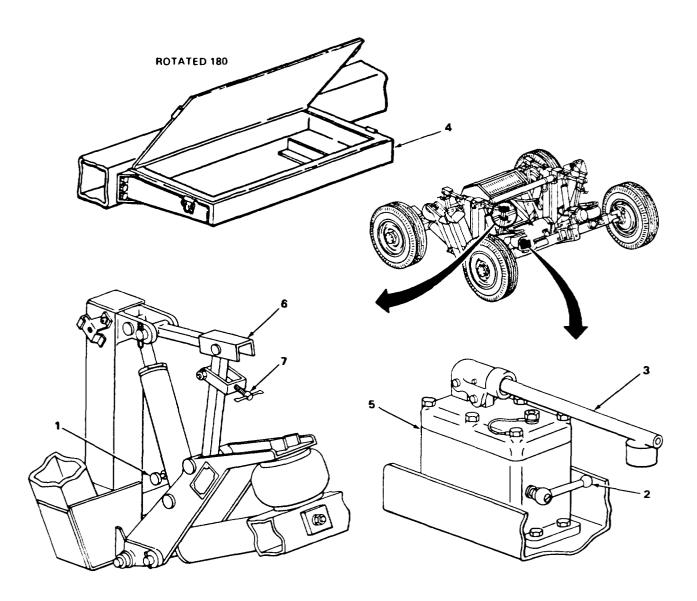
NOTE

Have a helper operate the pump on one dolly while you operate the other.

- 4. Operate the hydraulic pump handles (3) and raise dollies together until four strut assemblies (6) are straight.
- 5. Secure four strut assemblies (6) with four clamps (7) by tightening wingnuts on each.
- 6. Close four manual valves (1) by turning clockwise.
- 7. Stow pump handles (3) in the toolbox (4).

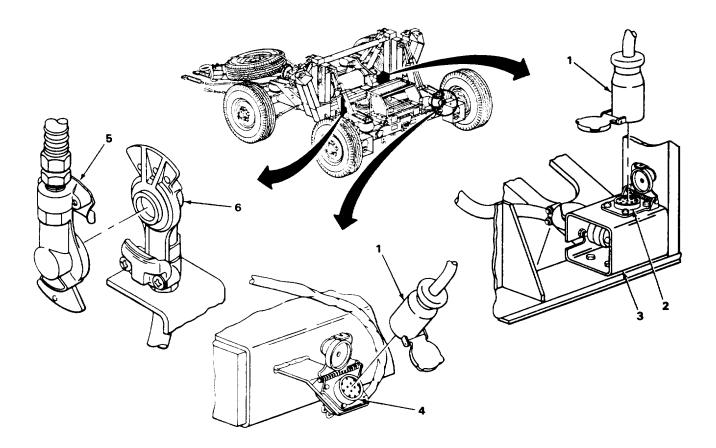
2-16

Preparing Dolly Set For Transport Without A Shelter - Continued



Preparing Dolly Set For Transport Without A Shelter - Continued

- 8. Remove interdolly cable (1) from stowed position on toolbox.
- 9. Connect interdolly cable (1) to receptacle (2) on junction box (3) on front dolly.
- 10. Connect interdolly cable (1) to receptacle (4) on rear dolly.
- 11. Connect interdolly airhose (5) to gladhand fitting (6) located on rear dolly.
- 12. Connect dolly set to towing vehicle (see page 2-27).



Preparing Dolly Set For Transport Of A Shelter

1. Apply parking brake (1) at rear trailer dolly.

CAUTION

Remove interdolly cable from stowed position to prevent pinching cable between dolly frame and tool box when raising or lowering dolly.

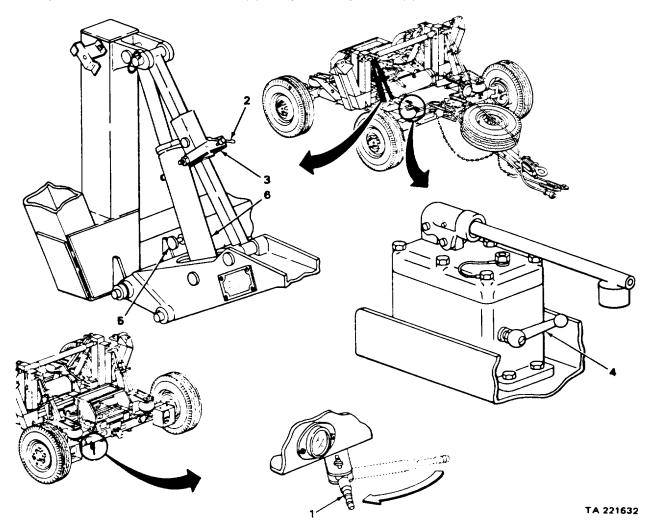
NOTE

If dolly set is in the raised position, perform steps 2 thru 5. If dolly set is in the lowered position, go to step 6.

2. Loosen wingnuts (2) on four strut clamps (3).

3. Place two hydraulic pump levers (4) in RAISE position

4. Open four manual control valves (5) at hydraulic cylinders (6).



Preparing Dolly Set For Transport Of A Shelter - Continued

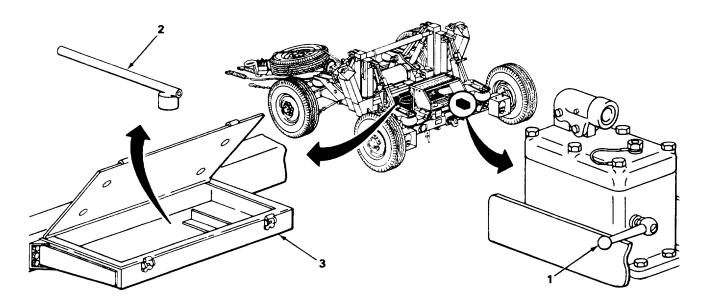
WARNING

All personnel not involved with task should stay clear, When dolly set is lowered, personnel performing task should keep limbs from under it.

NOTE

Have a helper operate one pump lever while you operate the other. This will allow the dolly set to lower evenly.

- 5. Slowly turn hydraulic pump levers (1) to the LOWER position, lowering dolly set to the ground.
- 6. Remove two jack handles (2) from their stowed position in the toolbox (3).



Preparing Dolly Set For Transport Of A Shelter - Continued

- 7. Remove two binder bolts (1) by using jack handle (2) as a wrench.
- 8. Separate dollies by unhooking lifting lips (3) from each other.

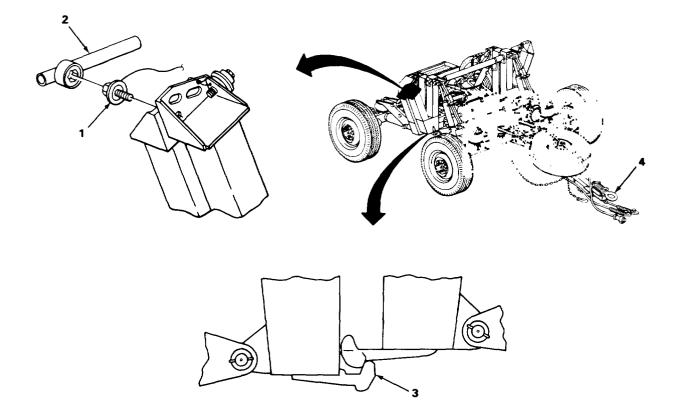
CAUTION

Be sure that interdolly cable and airhose is not connected before attempting to separate dollies.

NOTE

Front dolly should normally be positioned at the end of the shelter that is furthest from door.

9. Using towbar (4) as a positioning lever, roll the front dolly into position at the front of the shelter.



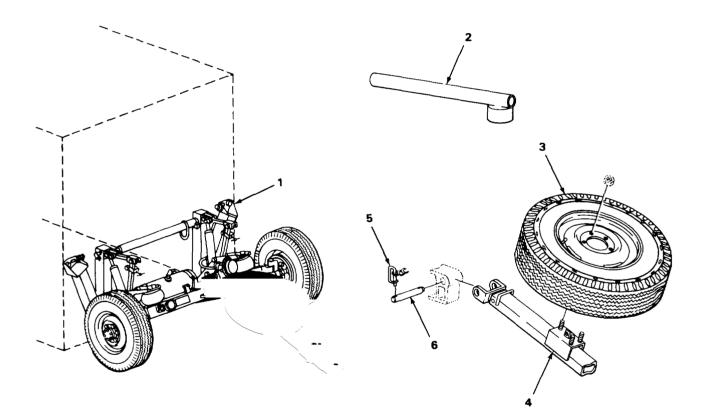
Preparing Dolly Set For Transport Of A Shelter - Continued

10. Secure dolly to the shelter with two binder bolts (1). Use pump handle (2) to tighten.

NOTE

Later models are equipped with a separate positioning bar. If you are using a later model, skip steps 11 thru 13.

- 11. Remove spare tire (3) from towbar (4) (see page 3-6).
- 12. Remove locking pin (5) from pivot pin (6).
- 13. Remove pivot pin (6) and take off towbar (4).



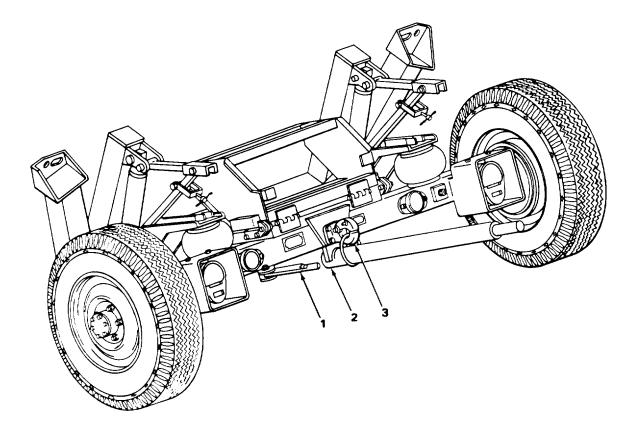
Preparing Dolly Set For Transport Of A Shelter - Continued

14. Release handbrake lever (1) on rear dolly.

NOTE

In steps 15 thru 18, the positioning bar (2) will be the towbar if you are working with an early model.

- 15. Hook positioning bar (2) in pintle (3) of rear dolly so that it can be used as a positioning lever.
- 16. Using positioning bar (2), roll rear dolly into position at the other end of the shelter.
- 17. Attach the dolly to the shelter (repeat step 10).
- 18. Unhook positioning bar (2) from pintle (3) and stow it.



Preparing Dolly Set For Transport Of A Shelter - Continued

19. Apply handbrake by pulling lever (1) on rear dolly.

CAUTION

Inflate the air cushions to the psi specified on the data plate (figure 31, item 5). This must be done before lifting the load as stated on the data plate (figure 32, item 2).

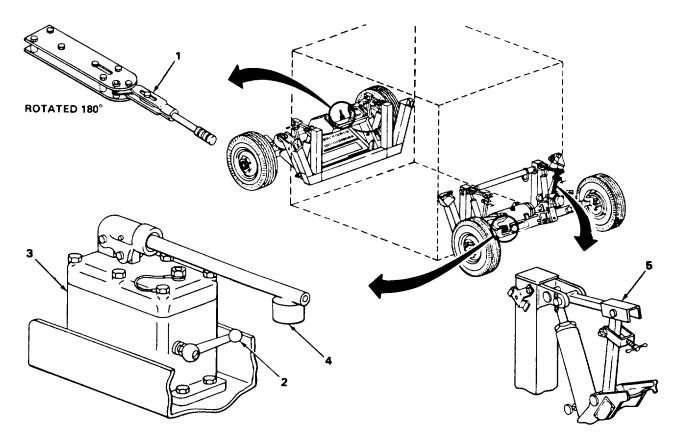
20. Move levers (2) on the front and rear hydraulic pumps (3) to the RAISE position.

21. Position the two pump handles (4) in the hydraulic pumps (3).

NOTE

When raising the shelter, have a helper operate one pump while you operate the other. This will raise the shelter evenly.

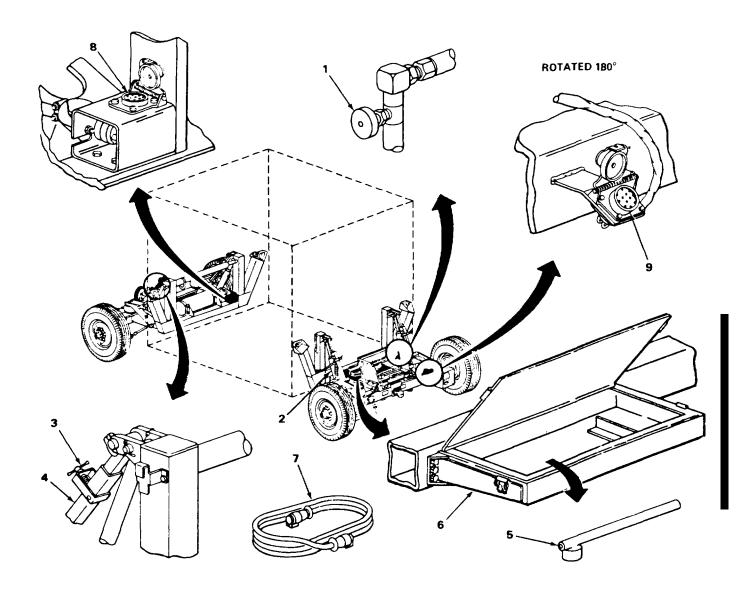
22. Using pump handles (4), raise shelter until all struts (5) are straight.



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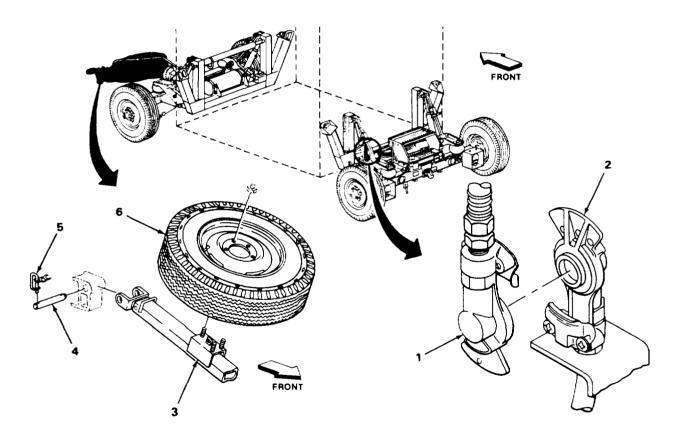
Preparing Dolly Set For Transport Of A Shelter - Continued

- 23. Close manual control valves (1) at base at each cylinder (2).
- 24. Position and tighten strut clamps (3) located on each strut (4).
- 25. Stow two pump handles (5) in toolbox (6).
- 26. Remove interdolly cable (7) from stowed position on top of toolbox (6).
- 27. Connect interdolly cable (7) to front (8) and rear (9) dolly receptacles.



Preparing Dolly Set For Transport Of A Shelter - Continued

- 28. Connect interdolly airhose (1) to gladhand coupling (2) on rear dolly.
- 29. Put towbar (3) back on front dolly and secure with pin (4).
- 30. Secure pin (4) with locking pin (5).
- 31. Put the spare tire (6) back on towbar (3) (see page 3-8).
- 32. Connect dolly set to towing vehicle (see page 2-27).



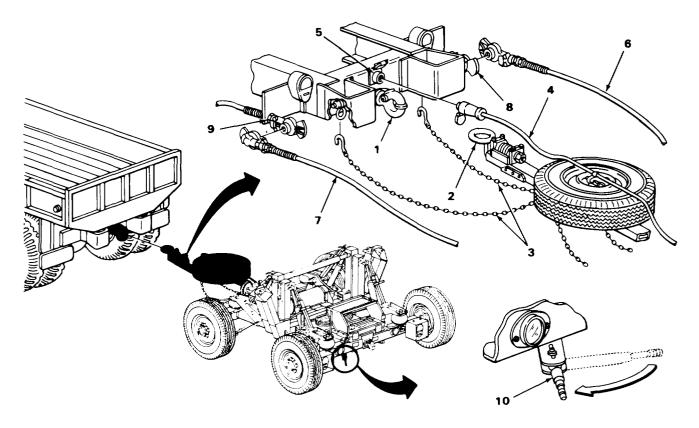
Attaching Dolly Set To Towing Vehicle

- 1. With an assistant guiding you, back towing vehicle up to aline pintle (1) with lunette (2).
- 2. Place lunette (2) into pintle (1).
- 3. Connect two safety chains (3) to towing vehicle.

NOTE

Early model dolly sets are equipped to operate on a 12- or 24-volt electrical system. A seven-pin connector is provided to plug into a 24-volt electrical system and a 12-pin connector is provided to plug into a 12-volt electrical system.

- 4. Connect intervehicular cable (4) to receptacle (5) on towing vehicle.
- 5. Connect the service (6) and emergency (7) intervehicular airhoses to gladhand fittings (8) and (9) on the towing vehicle.
- 6. Check the operation of brakes and lights.
- 7. Release the parking brake lever (10).



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OPERATION

Driving

When driving towing vehicle with dolly set coupled, the overall length of the unit must be kept in mind when passing other vehicles or turning.

Turning

When turning corners, allow for the fact that dolly wheels turn inside the turning radius of the towing vehicle. Make a right turn at a road intersection by driving the towing vehicle about halfway into the intersection and then cut sharply to the right. This will keep dolly wheels off the curb.

Stopping

The brakes of the towing vehicle and dolly set are applied at the same time when stopping. Pressure to the brake pedal must be applied gradually and smoothly.

Parking

When leaving the towing vehicle and dolly set unattended, set the parking brakes on the towing vehicle and rear dolly. Turn off engine before leaving cab.

Backing

CAUTION

Avoid reverse motion (backing up) of the dolly set whenever possible. When backing is necessary, move a short distance backward while watching dolly set to be sure not to misaline vehicles. Misalinement will cramp the towbar beyond its design rotation, causing damage.

OPERATION - CONTINUED

Leveling The Shelter

WARNING

Operating the dolly set on the highway without struts and clamps attached could cause loss of control and serious injury to personnel.

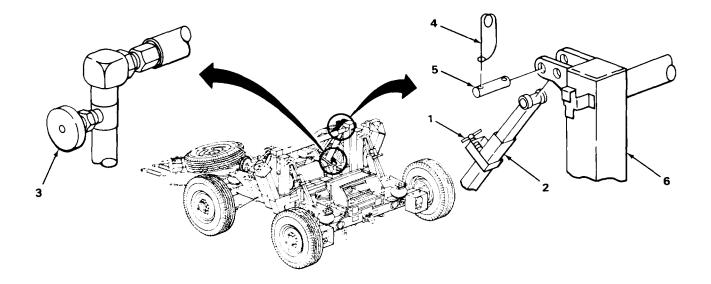
CAUTION

This configuration is for temporary or emergency use. Using this configuration over extended periods could damage hydraulic cylinders.

NOTE

The following procedure begins with the shelter fully raised on the dolly set. The pump levers must be in the RAISED position.

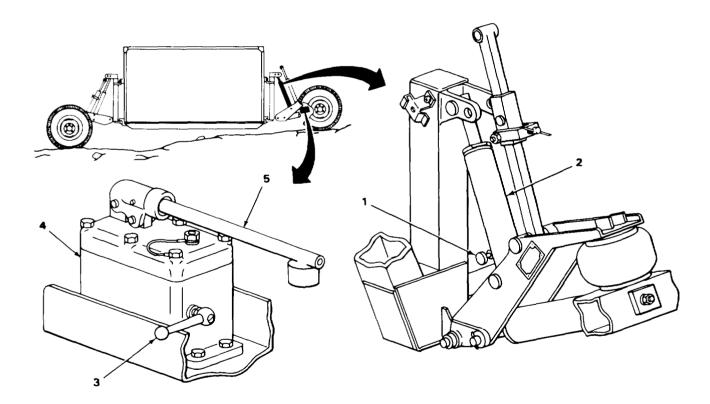
- 1. Loosen the strut clamp (1) located on each of four strut assemblies (2).
- 2. With manual valves (3) closed, remove lockpins (4) and hitch pins (5) securing the ends of four strut assemblies (2) to adapters (6).



OPERATION - CONTINUED

Leveling The Shelter - Continued

- 3. Open manual valve (1) on any one cylinder (2) which must be extended or retracted to level one end of the shelter.
- 4. To retract the cylinder (2), slowly move lever (3) of the associated pump (4) to the RELEASE position. Allow cylinder to retract until the end of the shelter is level. Move pump lever to RAISE position.
- 5. To extend cylinder (2), place pump handle (5) into pump (4) and raise cylinder (2) until the end of the shelter is level.
- 6. Repeat steps 1 thru 5 until shelter is level.
- 7. Close all manual valves (1) to lock the shelter in a level position.



AFTER USE

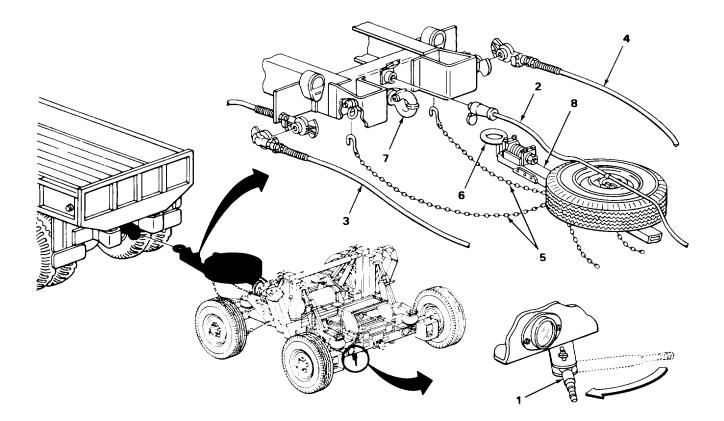
Disconnecting Dolly From Towing Vehicle

- 1. Apply parking brake lever (1) on rear dolly.
- 2. Unhook intervehicular cable (2) from towing vehicle.
- 3. Disconnect service (3) and emergency (4) intervehicular airhoses.
- 4. Disconnect two safety chains (5) from towing vehicle.

CAUTION

Do not place towbar in the vertical position when a shelter is attached to the dolly set. The towbar will cause serious damage to the shelter when the shelter is lowered.

- 5. Disconnect the lunette (6) from the pintle (7). Push towbar (8) to the side and lay on ground.
- 6. Drive towing vehicle forward.



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Uncoupling Dolly Set From Shelter

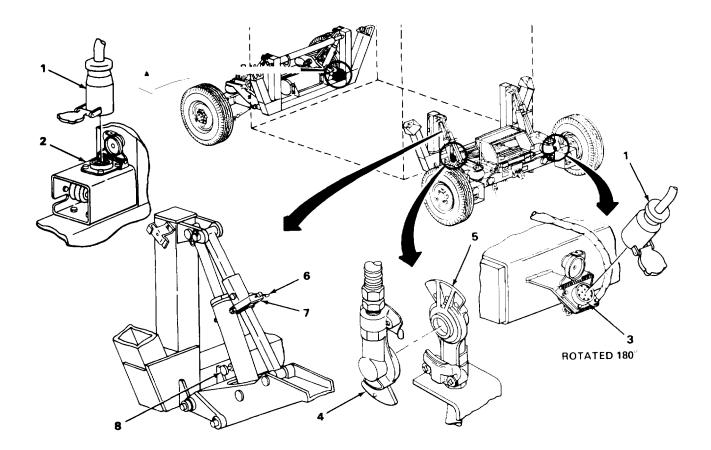
- 1. Disconnect interdolly cable (1) from front (2) and rear (3) receptacles. Stow cable in the straps located on toolbox lid.
- 2. Disconnect intertrailer airhose (4) at gladhand coupling (5) on rear dolly. Stow the hose on front dolly.
- 3. Loosen wingnuts (6) located on the four strut clamps (7).
- 4. Open four manual control valves (8) by turning counterclockwise.

WARNING

Hands and feet should be kept clear of dolly and shelter when dolly is lowered.

CAUTION

Shelter should be lowered slowly to prevent damage to the equipment.

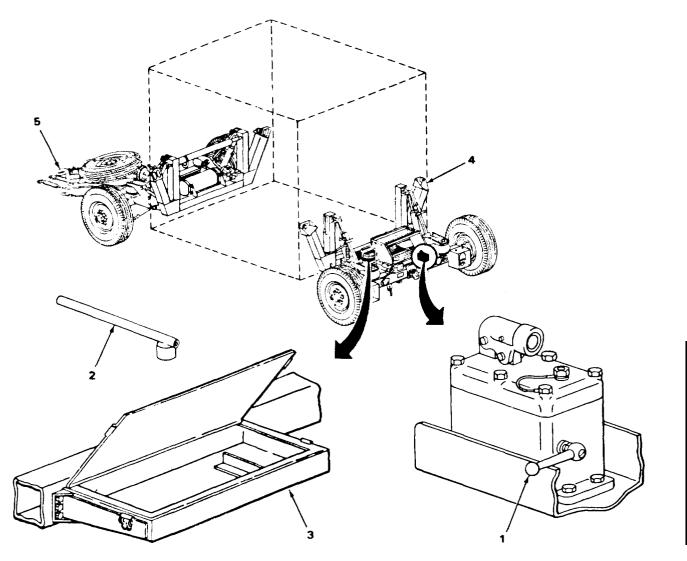


Uncoupling Dolly Set From Shelter - Continued

NOTE

Have an assistant operate one pump lever while you operate the other. This will allow the shelter to be lowered evenly.

- 5. Move two pump levers (1) slowly and together to the LOWER position, lowering the shelter to the ground.
- 6. Remove pump handle (2) from toolbox (3).
- 7. Using pump handle (2), remove eight binder bolts (4) securing the front and rear dollies to the shelter.
- 8. Using towbar (5), roll front dolly free of the shelter.



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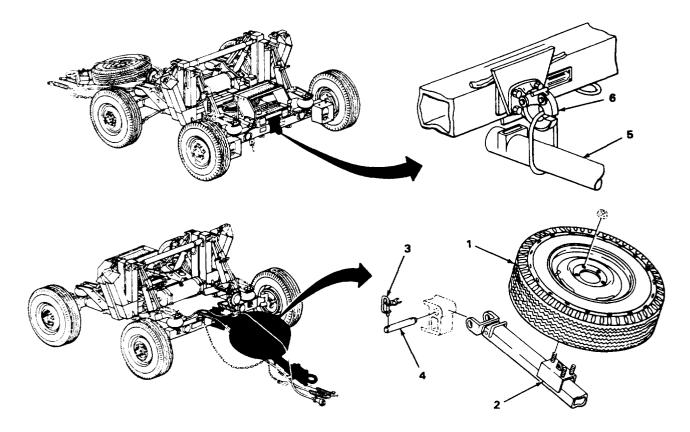
Uncoupling Dolly Set From Shelter - Continued

ΝΟΤΕ

On earlier configurations the towbar is used as the positioning bar and must be removed. If you are working with a later configuration, skip steps 9 and 10 and use the positioning bar located between the adapter arms.

9. Remove spare tire (1) (see page 3-6).

- 10. Take off towbar (2) by taking out lockpin (3) and pivot pin (4).
- 11. Hook positioning bar (5) into pintle (6) on the rear dolly. Use it as a lever to move dolly from the shelter into position with the front dolly for coupling.



Coupling Front And Rear Dollies Together

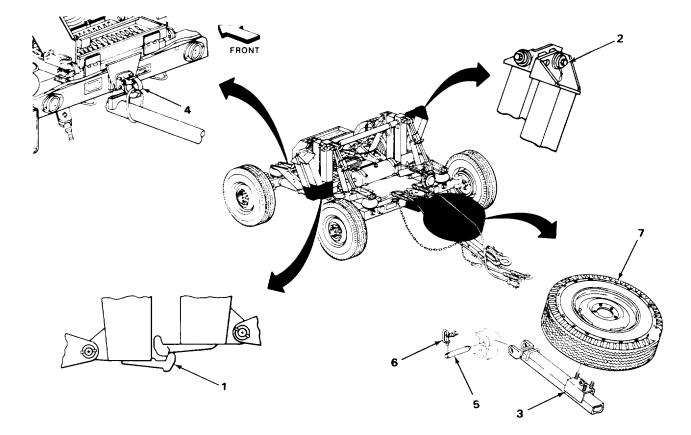
1. Aline two lifting lips (1) of front dolly over the two lifting lips (1) of rear dolly.

2. Secure front and rear dollies with two binder bolts (2).

NOTE

If towbar was not used as a positioning bar, skip steps 3 thru 5 and stow positioning bar instead.

- 3. Take towbar (3) out of pintle (4) on the rear dolly.
- 4. Put towbar (3) back on front dolly and secure with pivot pin (5) and lockpin (6).
- 5. Put spare tire (7) back on towbar (3) (see page 3-8).



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Section IV OPERATION UNDER UNUSUAL CONDITIONS

Page

| Fording Operation in Extreme Cold Operation in Extreme Heat ., . , Operation in Mud Operation in Rainy or Humid | 2-36 2-36 | |
|---|--------------|--|
| Conditions | | |
| Operation on Rocky Terrain | . 2-36 | |
| | | |

Page

OPERATION IN EXTREME HEAT

Do not park dolly set in sunlight for long periods of time. Heat and sunlight shorten the life of tires. If possible, shelter or cover dolly set.

OPERATION IN EXTREME COLD

- 1, Extreme cold can cause lubricants to thicken or congeal, insulation to crack and cause electrical short circuits, and construction materials to become hard, brittle, and easily damaged or broken.
- 2. Tires may freeze to the ground or have a flat spot if under inflated.
- 3. Brake shoes may freeze to the brake drums and need to be heated to prevent damage to mating surfaces.
- 4. Refer to FM 9-207 and FM 21-305 for special instructions on driving hazards in extreme cold.
- 5. When parking short term, if high, dry ground is not available, place a footing of planks or brush under dolly wheels.

OPERATION IN SALTWATER AREAS

Saltwater will cause rust and corrosion. Clean, inspect, and lubricate often.

OPERATION ON ROCKY TERRAIN

- 1. Tires must be fully inflated to 40 psi (276 kPa) when moving on rough or rocky terrain. Underinflation will cause internal ruptures of the tires and damage to the tubes.
- 2. Before driving over stumps or rocks, make sure the dolly set can clear them. Such objects can damage components on the under side of the dolly set. Beware of low hanging tree limbs that can cause damage to the shelter.
- 3. Be sure you have a serviceable spare tire and wheel assembly because there is a greater chance of tire puncture.

FORDING

Before Fording

1. Before entering water, check the bottom surface condition. If bottom surface is too soft, do not ford.

After Fording

- 2. After coming out of water, apply the brake a few times to help dry out the brake linings. Make sure that the dolly brakes are working properly before driving at normal speeds.
- 3. Drain or dry all areas where water is lying.
- 4. Lubricate all unpainted surfaces. See lubrication chart, page 4-2,
- 5. Dry all lubricating points and lubricate them. See lubrication chart, page 4-2.

OPERATION IN RAINY OR HUMID CONDITIONS

Inspect, clean, and lubricate inactive equipment often to stop rust and fungus.

OPERATION IN SANDY OR DUSTY AREAS

- 1. Clean, inspect, and lubricate more often in dusty or sandy areas.
- 2. Reduce tire inflation to 15 psi (102 kPa) for operation in beach and desert sand.
- 3. Be sure to return tire air pressure to normal after sand operation (50 psi/341 kPa).

OPERATION IN SNOW

Refer to FM 21-305 for special instructions on operations in snow.

OPERATION IN MUD

- 1. Reduce tire inflation to 30 psi (205 kPa) while operating in soft mud, if practical,
- 2. If one or more wheels sink into the mud, you may need to jack up the mired wheel and put planking or matting under it.
- 3. Clean off all mud after operation.

CHAPTER 3

OPERATOR MAINTENANCE

OVERVIEW

This chapter contains the lubrication, troubleshooting, and maintenance instructions and procedures authorized at operator level.

Page

| Section I | Lubrication Instructions |
|-------------|-------------------------------------|
| Section II | Operator Troubleshooting Procedures |
| Section III | Operator Maintenance Procedures 3-4 |

Section I LUBRICATION INSTRUCTIONS

Lubrication under usual and unusual conditions and the lubrication chart for the dolly set are contained in organizational maintenance, chapter 4.

Section II OPERATOR TROUBLESHOOTING PROCEDURES

| Page | | Page |
|------------------------|---|------|
| Explanation of Columns | - | |

INTRODUCTION

This section lists the common malfunctions which you may find during operation of the dolly set or its components. Perform the tests/inspections and corrective maintenance in the order listed.

This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or it is not corrected by the listed corrective actions, notify your supervisor.

EXPLANATION OF COLUMNS

| MALFUNCTION | Visual or operational indication that something is wrong with the dolly set. |
|-------------------|--|
| TEST/INSPECTION | Procedure to isolate the problem to a component or system. |
| CORRECTIVE ACTION | Procedure to correct problem. |

SYMPTOM INDEX

This symptom index is provided as a quick way to get you to the part of the troubleshooting table that will help you solve the problem you are having. It lists all of the malfunctions covered in the operator troubleshooting table.

| Page | Э |
|---|---|
| BRAKES | |
| Brakes will not hold or brakes are locked 3-3 Parking brake will not hold 3-3 | |
| ELECTRICAL SYSTEM | |
| One or more lamps do not light, are dim, or flicker 3-2 | |
| TIRES | |
| Tires are scuffed or excessively worn | |

OPERATOR TROUBLESHOOTING

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM

1. ONE OR MORE LAMPS DO NOT LIGHT, ARE DIM, OR FLICKER

- Step 1. Turn on towing vehicle lights. (See operator's manual for towing vehicle.)
 - a. If lamps on the towing vehicle light, go to step 2.
 - b. If lamps on the towing vehicle do not light, notify organizational maintenance.
- Step 2. Disconnect intervehicular cable from towing vehicle. Check for damaged or corroded pins.
 - a. If connector pins are damaged or corroded, notify organizational maintenance.
 - b. If connector pins are not damaged or corroded, reconnect them. If lamps still malfunction, go to step 3.
- Step 3. Disconnect the interdolly cable. Check connectors for damaged or corroded pins.
 - a. If connector pins are damaged or corroded, notify organizational maintenance.
 - b. If connector pins are not damaged or corroded, reconnect them. If lamps still malfunction, notify organizational maintenance.

OPERATOR TROUBLESHOOTING - CONTINUED

MALFUNCTION

TEST OR INSPECTION CORRECTIVE ACTION

BRAKES

2. BRAKES WILL NOT HOLD OR BRAKES ARE LOCKED

Step 1. Check pressure gage in towing vehicle for a minimum of 60 psi (413.7 kPa).

- a. If pressure is sufficient, go to step 2.
- b. If pressure is too low and will not build up, notify organizational maintenance,
- Step 2. If towing vehicle is equipped with airline shut off valves at the gladhands, check to make sure they are turned on all the way. (Refer to operator's manual for towing vehicle.)
 - a. If towing vehicle is not equipped with airline shut off valves, go to step 3.
 - b. If airline shut off valves are turned on all the way, go to step 3.
- Step 3. Make sure that intervehicular hoses are properly connected to the towing vehicle.
 - a. If hoses are not connected properly, disconnect and reconnect the gladhands.
 - b. If hoses are properly connected, notify organizational maintenance.

3. PARKING BRAKE WILL NOT HOLD

Check parking brake for correct adjustment.

- a. Adjust parking brake (page 3-4).
- b. If unable to adjust, notify organizational maintenance.

TIRES

4. TIRES ARE SCUFFED OR EXCESSIVELY WORN

Check that tire pressure is 40 psi (275.8 kPa) for cross-country and 50 psi (344.8 kPa) for highway.

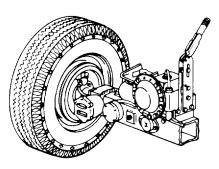
- a. If tire pressure is incorrect, inflate or deflate tires to the correct pressure.
- b. If the tire pressure is correct, notify organizational maintenance.

Section II OPERATOR MAINTENANCE PROCEDURES

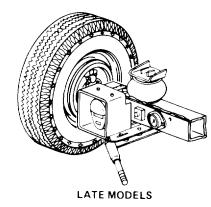
| | Page | F | Page |
|-----------------------------|------------------------|--|------|
| Introduction | | Spare Tire | |
| INTRODUCTION | | | |
| This section contains the m | aintenance procedures | which maybe accomplished by the operator. | |
| PARKING BRAKES | | | |
| This task covers: | | | |
| Adjustment | | | |
| INITIAL SETUP | | | |
| Personnel Required | | | |
| One | | | |
| LOCATION | ITEM | ACTION REMARKS | |
| Rear dolly set | Parking brake lever | a. Release parking brake lever(I). b. Turn handle cap (2) clockwise to increase or counterclockwise to decrease braking c. Apply parking brake lever(I). | |
| | | NOTE | |
| | | ent is indicated when, after applying the the lever assembly locks in actuated | |

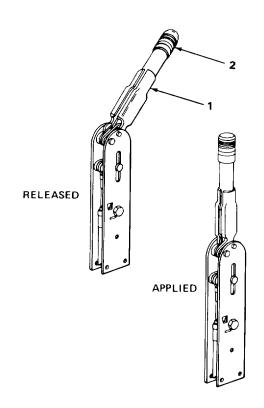
parking brakes, the leve position.

PARKING BRAKES - CONTINUED



EARLY MODELS





TASK ENDS HERE

WHEEL AND TIRE

This task covers:

- a. Removal
- b. Installation

| INITIA | INITIAL SETUP | | | | | | | |
|---|---------------|--------------------|---|--|--|--|--|--|
| Тоо | ls | Personnel Required | | | | | | |
| Hydraulic jack Wheel nut socket wrench | | ı | One | | | | | |
| | LOCATION | ITEM | ACTION REMARKS | | | | | |
| REMC | VAL | | | | | | | |
| 1 | Axle | Five nuts (1) | Using wheel nut socket wrench, loosen nuts (I). Do not remove at this time. | | | | | |
| 2 | | Hydraulic jack (2) | Using hydraulic jack (2) placed under axle (3), raise axle (3) until wheel (4) is off the ground. | | | | | |
| 3 | | Five nuts (1) | Using wheel nut socket wrench, take off nuts (1) from hub studs (5). | | | | | |
| 4 | | Wheel and tire (4) | Take off wheel and tire (4). | | | | | |
| INSTA | ALLATION | | | | | | | |
| 5 | | Wheel and tire (4) | Place wheel and tire (4) on hub (6). | | | | | |
| 6 | | Five nuts (1) | Using wheel nut socket wrench, screw nuts (1) on hub studs (5) until snug. | | | | | |
| 7 | | Hydraulic jack (2) | a. Using hydraulic jack (2) lower axle.b. Take hydraulic jack (2) from under axle (3). | | | | | |

WHEEL AND TIRE - CONTINUED

| INSTALLATION - CONTINUED 8 Axle Five nuts (1) Using wheel nut wrench, tighten nuts (l). NOTE Have organizational maintenance torque nuts (1) to 71-78 lb ft (54.2 N•m) as part of your after operation PMCS. | LOCATION | I ITEM | ACTION REMARKS |
|--|-------------------|---------------------------------------|---|
| NOTE Have organizational maintenance torque nuts (1) to 71-78 lb ft | NSTALLATION - CON | TINUED | |
| Have organizational maintenance torque nuts (1) to 71-78 lb ft | 8 Axle | Five nuts (1) | Using wheel nut wrench, tighten nuts (I). |
| - | | | NOTE |
| A A A A A A A A A A A A A A A A A A A | | - | • • • • |
| | | A A A A A A A A A A A A A A A A A A A | |
| | | | |

TASK ENDS HERE

SPARE TIRE

This task covers:

- a. Removal
- b. Installation

INITIAL SETUP Tools Personnel Required One Wheel nut socket wrench ACTION LOCATION ITEM REMARKS REMOVAL Nuts (1) and spare a. Using wheel nut socket wrench, take off 1 Towbar nuts (I). tire (2) b. Take off spare tire (2) from towbar (3). INSTALLATION a. Place spare tire (2) on towbar (3). 2 Nuts (1) and spare b. Using wheel nut socket wrench, screw on tire (2) nuts (1) and tighten. 3

TASK ENDS HERE

CHAPTER 4

ORGANIZATIONAL MAINTENANCE

OVERVIEW

This chapter contains all the maintenance authorized to be performed by organizational maintenance.

Page

| Section Section | - | Lubrication Instructions, | 4-1 |
|--------------------|------|--|-------|
| Occuon | | Equipment (TMDE); and Support Equipment | 4-6 |
| Section | III | Service Upon Receipt | 4-6 |
| Section | IV | Organizational Preventive Maintenance Checks and | |
| | | Services (PMCS) | 4-8 |
| Section | V | Organizational Troubleshooting Procedures, | 4-12 |
| Section | VI | Cleaning and Inspection instructions | 4-22 |
| Section | VII | Electrical System Maintenance. | 4-24 |
| Section | VIII | Axle Maintenance | 4-66 |
| Section | IX | Brake System Maintenance | 4-90 |
| Section | Х | Hub and Brake Drum Maintenance | 4-132 |
| Section | XI | Frame and Towing Attachment Maintenance | 4-138 |
| Section | XII | Suspension System Maintenance | 4-150 |
| Section | XIII | Accessory Item Maintenance | 4-154 |
| Section | XIV | Hydraulic Lift System Maintenance | 4-163 |

Section I LUBRICATION INSTRUCTIONS

| | - | | |
|--------------------------|-----|-------------------|-----|
| Lubrication Instructions | 4-1 | Lubrication Chart | 4-2 |

Page

LUBRICATION INSTRUCTIONS

General

Keep all Lubricants in closed containers and store in a clean, dry place away from external heat. Keep container covers clean and allow no dust, dirt, or other foreign material to mix with the lubricants. Keep all Lubrication equipment clean and ready for use.

Cleaning

Keep all external parts not requiring lubrication free of lubricants. Before lubricating the equipment, wipe all Lubrication points free of dirt and grease. Clean all lubrication points after servicing to prevent accumulation of foreign matter.

Lubrication Interval

Service the lubrication points at the proper intervals as specified in the lubrication chart. The intervals specified are based on operation under normal conditions, Modification of the recommended intervals may be required under unusual operating conditions.

Page

LUBRICATION CHART

- 1. For lubrication under normal conditions, refer to the lubrication chart on the following page.
- 2. For instructions on lubrication in weather below 0°F (-18°C), refer to FM 9-207.
- 3. For lubrication before and after fording, refer to TM 9-238.
- 4. After operating in mud, dust, sand, or other unusual conditions, clean and inspect all lubrication points. Lubricate dolly set in accordance with the lubrication chart.

LUBRICATION CHART

DOLLY SET, TRANSPORTABLE SHELTER M720

Intervals (on-condition or hard-time) and the related man-hour times are based on normal operations. The man-hour time specified is the time you need to do all the services prescribed for a particular interval. Change the hard-time interval if your lubricants are contaminated or if you are operating the equipment under adverse operating conditions, including fording. The interval may be extended during periods of low activity. If extended, adequate preservation precautions must be taken.

NOTE

LV is Localized View.

Dotted leader lines indicate lubrication is required on both sides of the equipment.

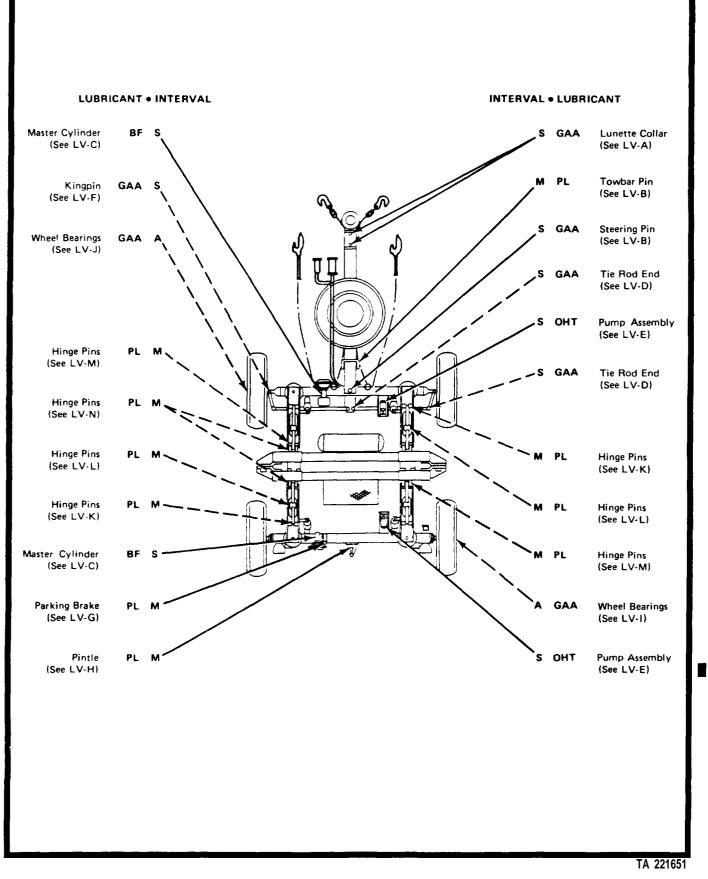
WARNING

Drycleaning solvent PD-680 used to clean parts is potentially dangerous. Do not use near an open flame or excessive heat. Flash point of solvent is 138° F (58°C).

Clean all fittings and the area around lube points with drycleaning solvent PD-680 or equivalent, before lubricating.

| | TOTAL MAN-HOURS* |
|-------------|-------------------|
| INTERVAL | MAN-HOURS |
| M s A | 1.5 2.5 6.0 |

'The time specified is the time required to perform all services at the particular level.

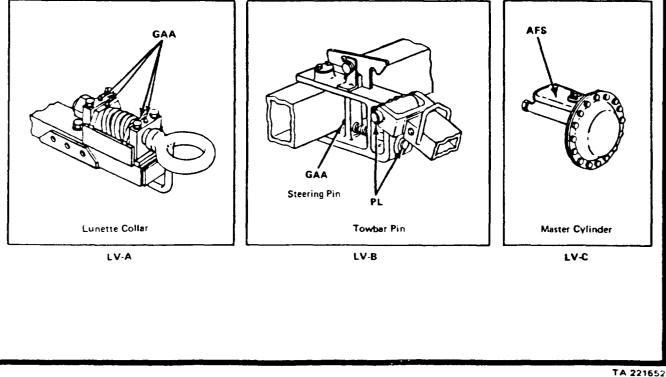


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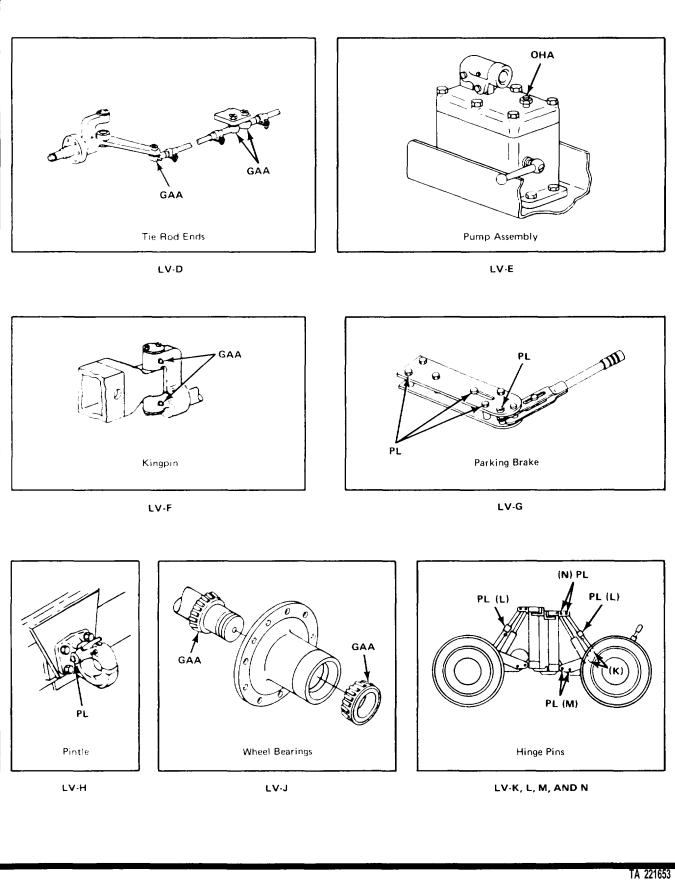
| . | | • <u></u> | -KEY- | | | |
|---------------|--|-----------------------|--------------|--------------|-------------|---------------------------------|
| | | EXPECTED TEMPERATURES | | | | |
| | LUBRICANTS | ABOVE -32 F | 40°F TO 10°F | 0°F TO 65°F | 5 | INTERVALS |
| GAA | Grease, lubr, automotive and artillery | GAA | GAA | GAA | 1 to FM | M – Monthly S – Semiannually |
| BFS | Hydraulic fluid, non-petroleum base, automotive | BFS | BFS | BFS | tions, refe | A – Annually |
| ОНТ | Hydraulic fluid, petroleum base, corrosion inhibited | ОНТ | онт | ОНТ | arctic oper | |
| PL | Lubricating oil, general purpose | PL (Medium) | PL (Special) | PL (Special) | Lo Lo | |

NOTES:

- 1. OILCAN POINTS. Lubricate brake linkage, handbrake lever, tailgate hinges, latches, and hydraulic brake actuator pivot and slide points with OE lubricating oil.
- 2. Do not lubricate springs.
- 3. See page 4-134, Wheel Bearing Removal and Installation.
- 4. Lubrication instructions are mandatory requirements,



4-4 Change 1



Section II REPAIR PARTS; SPECIAL TOOLS; TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE); AND SUPPORT EQUIPMENT

| Page | | |
|---|---|--|
| Common Tools and Equipment 4-6 Repair Parts | Special Tools, TMDE, and Support Equipment | |

COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

No special tools, TMDE, or support equipment are required to maintain the dolly set.

REPAIR PARTS

Repair parts are listed and illustrated in appendix F of this manual.

Section III SERVICE UPON RECEIPT

| | Page | | Page |
|--|------|-------------------------------------|------|
| Preliminary Servicing and Adjustment of Equipment | 4-7 | Service Upon Receipt of Materiel | 4-6 |

SERVICE UPON RECEIPT OF MATERIEL

| LOCATION | ITEM | ACTION REMARKS | |
|---|--|-----------------------------------|--|
| 1 Attached to con- spicuous part of dolly set | DD Form 1397 | Read and follow all instructions. | |
| 2 | Metal strapping, plywood, tapes, seals, and wrappings | Remove. | |

SERVICE UPON RECEIPT OF MATERIEL - CONTINUED

| | LOCATION | ITEM | ACTION REMARKS |
|---|----------|-------------------------------------|--|
| | | | WARNING |
| | | Avoid prolonged Use only in well | nt PD-680 is both toxic and flammable. breathing of vapors and avoid skin contact. ventilated area and keep away from open t of solvent is 138°F (58.8 C). Serious injury esult. |
| 3 | | Coated exterior parts | Remove rust preventive compound with dry- cleaning solvent. |
| 4 | | Dolly set | a. Inspect for damage that may have occurred during shipping.b. If damage is found, submit DD Form 6, Package Improvement Report. |
| 5 | | Equipment packing slip | a. Check against equipment to see if shipment is complete. b. Report all discrepancies in accordance with instructions in TM 38-750. |

PRELIMINARY SERVICING AND ADJUSTMENT OF EQUIPMENT

Perform the operator and organizational maintenance preventive maintenance checks and services contained in chapters 2 and 4.

Lubricate all points as shown in the Lubrication Chart (page 4-2) regardless of interval.

Schedule the next preventive maintenance checks and services on DD Form 314, Preventive Maintenance Schedule and Record.

Report all deficiencies on DA Form 2407 if the deficiencies appear to involve unsatisfactory design.

Perform a break-in road test of 25 miles (40.23 km) on new or reconditioned materiel, or a sufficient number of miles on used materiel to completely check operation.

Section IV ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

Page

| Page |
|------|
|------|

| PMCS Column Description | 4-9 | Organizational PMCS | 4-10 |
|-------------------------|-----|----------------------|------|
| | | Special Instructions | |

GENERAL

The dolly set must be inspected systematically to ensure that it is ready for operation at all times. Inspection will allow defects to be discovered and corrected before they result in serious damage or failure. This section contains a tabulated list of preventive maintenance checks and services to be performed by organizational maintenance personnel. All deficiencies and corrective actions taken will be recorded on DA Form 2404.

- 1. Do your quarterly (Q) PMCS once every 3 months,
- 2. Do your semiannual (S) PMCS once every 6 months.
- 3. Do your annual (A) PMCS once every year.

If something doesn't work, troubleshoot it with the instructions in this manual or notify your supervisor.

Always do your preventive maintenance in the same order, so it gets to be a habit. Once you have had some practice, you will spot anything wrong in a hurry.

SPECIAL INSTRUCTIONS

If anything looks wrong and you can't fix it, write it down on your DA Form 2404. If you find something seriously wrong, report it to direct support as soon as possible.

WARNING

Drycleaning solvent PD-680 is both toxic and flammable. Avoid prolonged breathing of vapors and avoid skin contact. Use only in well ventilated areas and keep away from open flame or excessive heat. Flash point of solvent is 138°F (58.8"C).

- 1. Keep it clean: Dirt, grease, oil, and debris only get in the way and may cover up a serious problem. Clean as you work and as needed, Use drycleaning solvent PD-680 to clean metal surfaces. Use soap and water when you clean rubber or plastic material.
- 2. Bolts, nuts, and screws: Check that they are not loose, missing, bent, or broken. You can't try them all with a tool of course, but look for chipped paint, bare metal, or rust around boltheads. Tighten any that you find loose.
- 3. Welds: Look for loose or chipped paint, rust, or gaps where parts are welded together. If you find a bad weld, report it to direct support.

SPECIAL INSTRUCTIONS - CONTINUED

- 4. Electric wires and connectors: Look for cracked or broken insulation, bare wires, and loose or broken connectors. Tighten loose connections and make sure the wires are in good condition.
- 5. Hoses and fluid lines: Look for wear, damage, and leaks. Make sure clamps and fittings are tight. Wet spots show leaks of course, but a stain around a fitting or connector can also mean a leak. If a leak comes from a loose fitting or connector, tighten it. If something is broken or worn out, either correct it or report it to direct support (refer to appendix B, MAC).

It is necessary for you to know how fluid leaks affect the status of your equipment. The following are definitions of the types/classes of leakage you need to know to be able to determine the status of your equipment. Learn and be familiar with them and remember - when in doubt, notify your supervisor.

Leakage Definitions for Organizational PMCS

- CLASS I Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.
- CLASS II Leakage of fluid great enough to form drops but not enough to cause drops to drip from the item being checked/inspected.
- CLASS III Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

CAUTION

When operating with class I or II leaks, continue to check fluid levels in addition to that required in PMCS. Parts without fluid will stop working and/or cause damage to the parts.

ΝΟΤΕ

Equipment operation is allowable with minor leakage (class I or II). Consideration must be given to the fluid capacity in the item being checked/inspected. When in doubt, notify your supervisor.

PMCS COLUMN DESCRIPTION

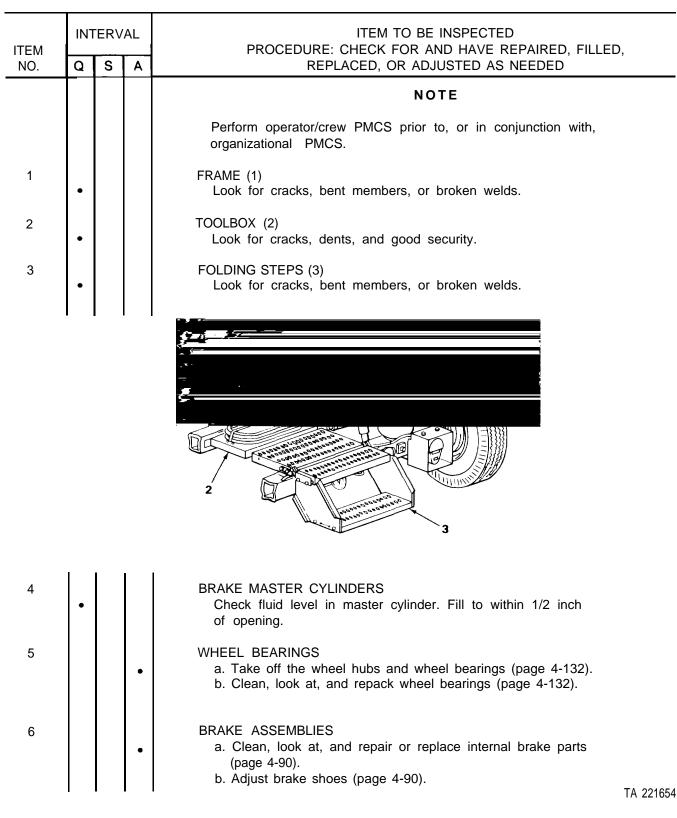
Item - The order that PMCS should be performed, and also used as a source of item numbers for the TM number column on DA Form 2404 Equipment Inspection and Maintenance Worksheet when recording results of PMCS.

Interval - Tells when each check should be performed.

Item To Be Inspected - Lists the checks to be performed.

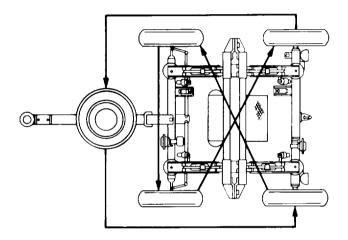
ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES

Q-Quarterly S-Semiannually A-Annually



ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES - CONTINUED

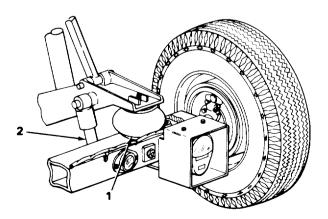
| | | | | Q-Quarterly | S-Semiannually | A-Annually |
|----------|---|---|-----|-------------------|----------------------|---|
| INTERVAL | | | /AL | PR | |) BE INSPECTED R AND HAVE REPAIRED, FILLED, |
| NO. | Q | S | А | | REPLACED, OR | ADJUSTED AS NEEDED |
| 7 | | • | | wear. b. Using | and match tires acco | rding to tread design and degree of ten lugnuts to 71-78 lb ft |



8

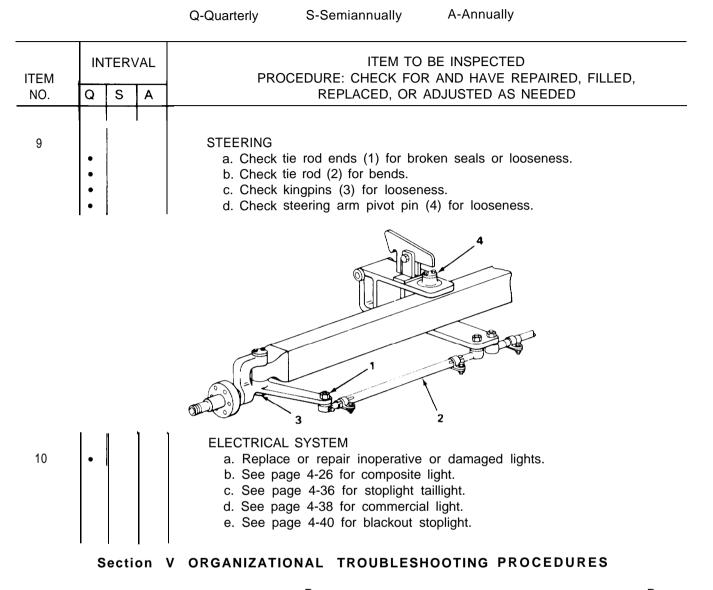
SUSPENSION

- a. Check suspension for bent or cracked parts, loose mountings, or worn bushings.
- b. Check air springs (1) for cracks or damage.c. Check shock absorbers (2) for damage or leakage.



TA 221655

ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES - CONTINUED



| | Page | | Page |
|---|------|---|------|
| Explanation of Columns Introduction Symptom index | 4-12 | Organizational Troubleshooting Table | 4-14 |

INTRODUCTION

This section lists the common malfunctions that may be found during the operation or maintenance of the dolly set or components. Perform the test/inspection and corrective action in the order listed.

This table cannot list all the malfunctions that may occur, nor all test or inspections and corrective actions. If a malfunction is not listed, or if it is not corrected by the listed corrective action, notify your supervisor.

EXPLANATION OF COLUMNS

| MALFUNCTION | Visual or operational indication that something is wrong with your equipment. |
|--------------------|---|
| TEST OR INSPECTION | Procedure used to isolate the problem to a system or component. |
| CORRECTIVE ACTION | Procedure used to correct the problem. |

SYMPTOM INDEX

This symptom index is provided as a quick way to get you to the part of the troubleshooting table that will help you solve the problem you are having. It lists all the malfunctions covered in the organizational troubleshooting table.

Page

BRAKES

| Brakes do not hold -front or rear dolly only Brakes grab or are locked - one wheel Brakes will not release - both dollies Handbrake will not hold Service brakes do not hold on front and rear dollies | 4-18 4-19 4-16 4-16 4-17 |
|--|--------------------------------------|
| ELECTRICAL SYSTEM | |
| All lamps fail to light, are dim, or flicker | 4-14 4-15 |
| HYDRAULIC SYSTEM | |
| Cylinder does not hold pressure when hand valve is closed | 4-21 4-21 |
| SUSPENSION SYSTEM | |
| Air spring loses pressure | 4-20 |
| TIRES | |
| One or more tires unevenly worn | 4-19 |
| WHEELS | |
| Front wheel s shimmy | 4-20 |

ORGANIZATIONAL TROUBLESHOOTING

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM

1. ALL LAMPS FAIL TO LIGHT, ARE DIM, OR FLICKER

Step 1. Check fuses and circuit breakers in towing vehicle.

Replace any bad fuses or reset any tripped circuit breakers (refer to TM applicable to towing vehicle). If fuses and circuit breakers are good, go to step 2.

Step 2. Check for power at the towing vehicle receptacle.

Connect black lead of multi meter to pin D of towing vehicle receptacle. Use red lead to probe all other pins in receptacle. If multimeter shows that power is present at the receptacle with the lights on, go to step 3. If no power is available at the towing vehicle receptacle, repair towing vehicle (refer to applicable TM).

- Step 3. Check for corroded or damaged cable connectors.
 - a. Check the condition of the receptacles and connectors on the following:
 - 1. Both intervehicular cable connectors.
 - 2. Both junction box receptacles.
 - 3. Both intertrailer cable connectors.
 - 4. Rear receptacle.
 - b. Repair any bad connectors or receptacles (page 4-62). If no bad connectors or receptacles are found, go to step 4.

NOTE

See page 4-60 for proper pin connector to wire identification.

- Step 4. Check ground wire 90 for continuity between front intervehicular cable connector plug and rear dolly frame (page 4-60).
 - a Repair break in 90 in the intervehicular cable, junction box, interdolly cable or rear harness (page 4-62).
 - b. Repair broken or faulty connection between the rear dolly frame and 90 in the rear harness (page 4-62).

MALFUNCTION

TEST OR INSPECTION CORRECTIVE ACTION

2. ONE OR MORE (BUT NOT ALL) LAMPS FAIL TO LIGHT, ARE DIM, OR FLICKER

Step 1. Check fuses and circuit breakers in the towing vehicle.

Replace bad fuses or reset tripped circuit breakers (refer to applicable TM). If fuses and circuit breakers are good, go to step 2.

NOTE

The following references are needed for step 2: Composite light - page 4-24. Blackout stoplight - page 4-38. Commercial stoplight - page 4-36. Taillight-turn signal - page 4-34.

Step 2. Check for faulty lamps or corroded lamp sockets.

- a. Remove affected lamp(s) from light(s) and test with a multimeter (page 4-58).
- b. Replace faulty lamp(s). If lamp(s) are good, leave the light(s) disassembled and go to (c).
- c. Clean corroded lamp sockets (page 4-22). If sockets are clean, go to step 3.
- Step 3. Check the line that powers the affected lamp(s) for continuity between the intervehicular cable, junction box, resistors, interdolly cable, rear harness, and through the lamp assembly (page 4-58).
 - a. Repair open circuit in wiring (page 4-82).
 - b. Replace faulty lamp assemblies (page 4-30).
 - c. Replace open resistors (page 4-40).

MALFUNCTION

TEST OR INSPECTION CORRECTIVE ACTION

BRAKES

3. HANDBRAKE WILL NOT HOLD

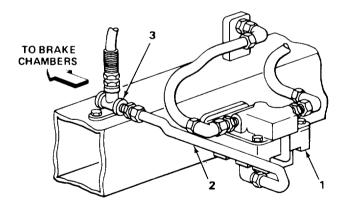
- Step 1. Check for broken handbrake cables.
 - a. Replace broken handbrake cables (page 4-90).
 - b. If handbrake cables are good, go to step 2.
- Step 2. Check for broken parts in service brakes (page 4-96).

Replace bad parts in service brake assemblies (page 4-96).

4. BRAKES WILL NOT RELEASE - BOTH DOLLIES

Check for bad relay valve (1).

Loosen line (2) on relay valve (). If air escapes and brakes release, replace relay valve. If brakes don't release, repair restriction in line (2) to brake chamber tee (3).



MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

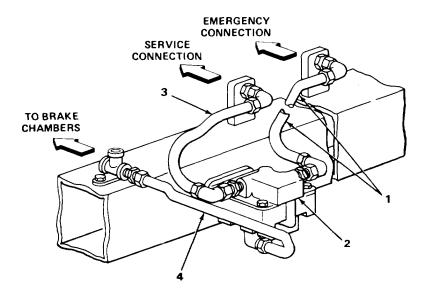
5. SERVICE BRAKES DO NOT HOLD ON FRONT AND REAR DOLLIES

Step 1. Check air system up to the relay valve.

- a. Loosen air line (1) slightly at the relay valve (2). If air escapes, tighten line (1) and go on to (b). If no air escapes, repair restricted emergency line (1).
- b. Loosen air line (3) slightly at the relay valve. Apply brakes on towing vehicle. If air escapes from line (3), tighten and go to step 2. If no air escapes, repair restricted service line (3).

Step 2. Check relay valve.

Loosen air line (4) slightly at the relay valve. Apply brakes on towing vehicle. If air escapes, repair restricted brake chamber line 4. If no air escapes, replace the relay valve (page 4-120).



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MALFUNCTION

TEST OR INSPECTION CORRECTIVE ACTION

6. BRAKES DO NOT HOLD - FRONT OR REAR DOLLY ONLY

Step 1. Check brake fluid level.

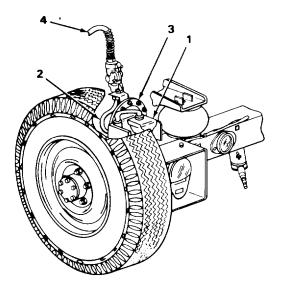
Check level of brake fluid in the master cylinder (1). If level is low, add fluid, bleed brakes (page 4-112), and check for leaks. If fluid level is okay, go to step 2.

Step 2. Check for restricted air lines.

Loosen line (2) at brake chamber (3). Apply brakes. If air escapes, go on to step 3. If no air escapes, repair restricted line feeding brake chamber (3). If problem is on the rear dolly, also check for restricted interdolly hose (4).

Step 3. Check for bad master cylinder or brake chamber.

Slightly loosen master cylinder (1) to brake chamber (3) mounting nuts. Gently apply brakes. If the units move apart it indicates that the brake chamber is working. In this case, replace the master cylinder (1) (page 4-116). If there is no movement in the units or there is air leakage, replace the brake chamber (3) (page 4-120).



MALFUNCTION

TEST OR INSPECTION CORRECTIVE ACTION

7. BRAKES GRAB OR ARE LOCKED - ONE WHEEL

ΝΟΤΕ

If wheel is locked, go to step 1. If brake is grabbing on affected wheel, go directly to step 2.

Step 1. Check brake adjustment (page 4-96).

Adjust brake on locked wheel to free it. If unable to free wheel, go on to step 2.

Step 2. Check for malfunction in service brake assembly (page 4-96).

- a. Check service brake assembly for:
 - 1. Cracked, broken, or contaminated linings.
 - 2. Frozen wheel cylinder.
 - 3. Broken return springs.
- b. Repair service brake assembly (page 4-96).

TIRES

8. ONE OR MORE TIRES WEAR UNEVENLY

NOTE

If the rear dolly is wearing tires unevenly, proceed directly to step 3.

- Step 1. Check front wheel toe-in and aline if necessary (page 4-66). If alinement is good, go to step 2. If unable to aline, go to step 3.
- Step 2. Check for loose kingpins, tie rod ends and steering arm pivot bushing (page 4-74).

Repair any loose parts in front axle (page 4-82). If no parts are loose, go on to step 3.

Step 3. Check for bent axle, knuckles, spindles, etc.

MALFUNCTION

TEST OR INSPECTION CORRECTIVE ACTION

WHEELS

9. FRONT WHEELS SHIMMY

Step 1. Check for loose wheel bearings.

Adjust wheel bearings (page 4-132). If wheel bearings were properly adjusted, go on to step 2.

Step 2. Check for loose kingpins, tie rod ends or steering arm pivot bushing (page 4-74).

Replace any bad parts in steering system (page 4-66), If all parts are good, go on to step 3.

Step 3. Check front wheel alinement.

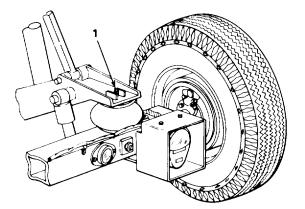
Aline front wheels (page 4-66).

SUSPENSION SYSTEM

10. AIR SPRING LOSES PRESSURE

Test for leakage.

Using soapy water, test for leaks. If leak is at valve core (1), tighten or replace it. If the air spring is leaking, replace it (page 4-150).



MALFUNCTION

TEST OR INSPECTION CORRECTIVE ACTION

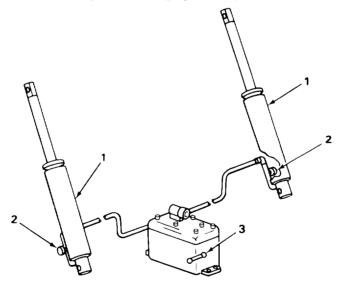
HYDRAULIC SYSTEM

11. CYLINDER DOES NOT HOLD PRESSURE WHEN HAND VALVE IS CLOSED

Step 1. Check for leaks at cylinder (1).

Replace cylinder (page 4-166).

- Step 2. Check for bypassing hand valve (2).
 - a. Raise adapter and close hand valve (2). Open pump release lever (3).
 - b. If adapter lowers and fluid level in reservoir raises, valve is bad. Replace valve (page 4-166).



12. HYDRAULIC PUMP ACTION SOFT OR WILL NOT RAISE ADAPTER TO FULL HEIGHT

Step 1. Check fluid level in reservoir (page 4-163).

- a. If fluid level is low, fill to proper level and visually inspect for external leakage.
- b. If fluid level is good, proceed to step 2.

Step 2. Check for air in the system.

Bleed the system (page 4-168). If no air is found in system, replace the pump (page 4-163). TA 221661

4-21

Section VI CLEANING AND INSPECTION INSTRUCTIONS

| | Page | | Page |
|-----------------------|------|-------------------------|------|
| Cleaning Instructions | 4-22 | Inspection Instructions | 4-23 |
| | WARN | ING | |

Improper cleaning methods and use of unauthorized cleaning liquids or solvents can injure personnel and damage equipment.

CLEANING INSTRUCTIONS

- a. The cleaning instructions will be the same for the majority of parts and components which make up the M720 dolly set.
- b. The importance of cleaning must be thoroughly understood by maintenance personnel. Great care and effort are required in cleaning. Dirt and foreign material are a constant threat to satisfactory maintenance. The following should apply to all cleaning, inspection, repair, and assembly operations.
 - 1. Clean all parts before inspection, after repair, and before assembly.
- 2. Hands should be kept free of any accumulation of grease, which can collect dust, dirt, or grit.
- 3. After cleaning, all parts should be covered or wrapped to protect them from dust and dirt. Parts that are subject to rust should be lightly oiled.

Steam Cleaning

- a. Protect all electrical equipment which could be damaged by the steam or moisture, before steam cleaning the exterior of the dolly set.
- b. Place disassembled parts in a suitable container to steam clean.
- c. After cleaning, dry and cover (or lightly oil) all parts subject to rust.

Castings, Forgings, And Machined Metal Parts

WARNING

Drycleaning solvent PD-680 is both toxic and flammable. Avoid prolonged breathing of vapors and avoid skin contact. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (58.8°C). Serious injury or death could result.

- a. Clean inner and outer surfaces with drycleaning solvent.
- b. Remove grease and accumulated deposits with a stiff bristle brush.

CLEANING INSTRUCTIONS - CONTINUED

WARNING

Particles blown by compressed air are hazardous. Do not exceed 30 psi (207 kPa) air pressure. Make certain the air stream is directed away from user and other personnel in the area. To prevent injury, user must wear safety eye goggles or face shield when using compressed air.

c. Blow out all tapped (threaded) holes with compressed air to remove dirt and cleaning fluids.

Electrical Cables, Flexible Hose, And Oil Seals

CAUTION

Washing electrical cables and flexible hoses with drycleaning solvents or mineral spirits will cause serious damage or destroy the material.

Wash electrical cables and flexible hose with water and mild soap solution, and wipe dry. Oil seals are generally damaged during removal, so cleaning will not be necessary since new seals will be used in assembly.

Bearings

Refer to TM 9-214 for instructions and procedures covering care and maintenance of bearings.

INSPECTION INSTRUCTIONS

All components and parts must be carefully checked to determine:

- a. If they are serviceable for reuse.
- b. If they can be repaired,
- c. If they must be scrapped.

Drilled And Tapped (Threaded) Holes

- a. Inspect for wear, distortion, cracks, or any other damage in or around holes.
- b. Inspect threaded areas for wear, distortion (stretched), or evidence of cross-threading.
- c. Mark all damaged areas for repair or replacement.

Metal Lines, Flexible Lines (Hoses), And Metal Fittings

- a. Inspect metal lines for sharp kinks, cracks, bad bends, or if badly dented.
- b. Inspect flexible lines for fraying, evidence of leakage, or loose metal fittings or connectors.

Section VII ELECTRICAL SYSTEM MAINTENANCE

Page

| Blackout Stoplight | 4-38 |
|---------------------------------|------|
| Blackout Stoplight Replacement | 4-28 |
| Commercial Stoplight | 4-36 |
| Component Testing | 4-58 |
| Composite Light | 4-24 |
| Composite Light Assembly | 4-26 |
| Front Harness and Junction Box | |
| Junction Box and Intervehicular | |
| Cable | 4-49 |

Light Assemblies4-30Rear Harness and Receptacle(Early Models)(Early Models)4-54Rear Harness and Receptacle4-56(Late Models)4-34Wiring Harness Repair4-62

COMPOSITE LIGHT

This task covers:

- a. Lamp and lens removal (page 4-24)
- b. Cleaning and inspection (page 4-25)
- c. Lamp and lens installation (page 4-25)

INITIAL SETUP

Tools

Flat-tip screwdriver

Materials/Parts

Lamps (as required) Preformed packing (if required) Sandpaper, 00

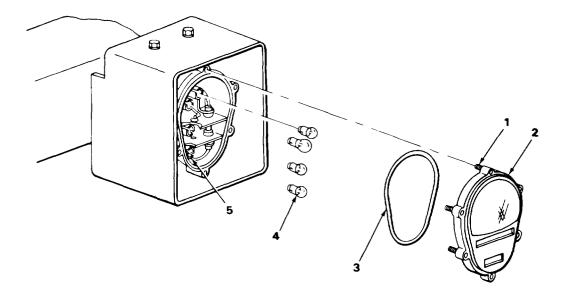
| LOCATION | ITEM | ACTION REMARKS |
|-----------------------|--------------------------------------|--|
| LAMP AND LENS REMOVAL | | |
| 1 Composite light | Six screws (1) and door and lens (2) | Unscrew and take off using flat-tip screwdriver. Screws (1) are captive in door and lens (2). |
| 2 Door and lens (2) | Preformed packing (3) | Inspect for damage. If damaged, take it out of groove and throw away. |
| | | NOTE |
| | Only | remove lamps that do not work. |

| 3 | 3 Composite | light | Four lamps (4) | a. | Push | in | and | turn | counterclockwise. |
|---|-------------|-------|----------------|----|------|-----|-------|------|-------------------|
| | | - | | b. | Take | out | : lam | p. | |

Page

COMPOSITE LIGHT - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|------------------------|--|---|
| CLEANING AND INSPECTIO | N | |
| 4 Light assembly | Lamp sockets (5) | Inspect for corrosion after the lamp is removed. If corroded, clean with 00 sandpaper. |
| 5 | Removed lamps (4) | Test lamps using a multimeter (page 4-58). Get rid of bad lamps. |
| LAMP AND LENS INSTALLA | TION | |
| 6 Composite light | Removed lamps (4) (new lamps as necessary) | Put lamps (4) into the socket, push in and turn clockwise to lock. |
| 7 Door and lens (2) | Preformed packing (3) | Put back into the groove in the door and lens (2). |
| 8 Composite lamp | Door and lens (2) and six screws (1) | Put on using a screwdriver. |



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COMPOSITE LIGHT ASSEMBLY

This task covers:

a. Removal (page 4-26)

b. Installation (page 4-27)

INITIAL SETUP

Tools

Cross-tip screwdriver 7/16-inch open end wrench

| LOCATION | ITEM | ACTION REMARKS |
|-----------------------|---|---|
| REMOVAL | | |
| 1 Bracket (1) | Two screws (2) and two washers (3) | Take out using a 7/16-inch wrench. |
| | | NOTE |
| | the wiring and that | ne identification tags are not missing from at they are readable before taking ors apart. Tag if necessary. |
| 2 Bracket (1) | Four connectors (5) | a. Pull from clip (4). b. Separate halves of connectors (5). |
| 3 Composite light (6) | Two screws (7), two washers (8) and bracket (1) | Take off using a 7/16-inch wrench. |
| | | NOTE |
| | Do | step 4 only if clip (4) is damaged. |
| 4 Bracket (1) | Clip (4), two screws (9), two washers (10) and two nuts (11) | Take off using a cross-tip screwdriver and a 7/16-inch wrench. |

| COMPOSITE LIG | IT ASSEMBLY | - CONTINUED |
|---------------|-------------|-------------|
|---------------|-------------|-------------|

| LOCATION | ITEM | ACTION REMARKS |
|-----------------------|---|---|
| INSTALLATION | | |
| | | NOTE |
| | Omit step | 5 if clip (4) was not previously removed. |
| 5 Bracket (1) | Clip (4), two screws (9), two washers (10) and two nuts (11) | Put on using a cross-tip screwdriver and a 7/16-inch wrench. |
| 6 Composite light (6) | Two screws (7), two washers (8) and bracket (1) | Put on using 7/16-inch wrench. |
| 7 Clip (4) | Four connectors (5) | a. Match identification tags and snap together. b. Snap into clip (4). |
| 8 Bracket (1) | Two screws (2) and two washers (3) | Put on using a 7/16-inch wrench. |
| | | |

TASK ENDS HERE

BLACKOUT STOPLIGHT REPLACEMENT

This task covers:

- a. Removal (page 4-28)
- b. Installation (page 4-28)

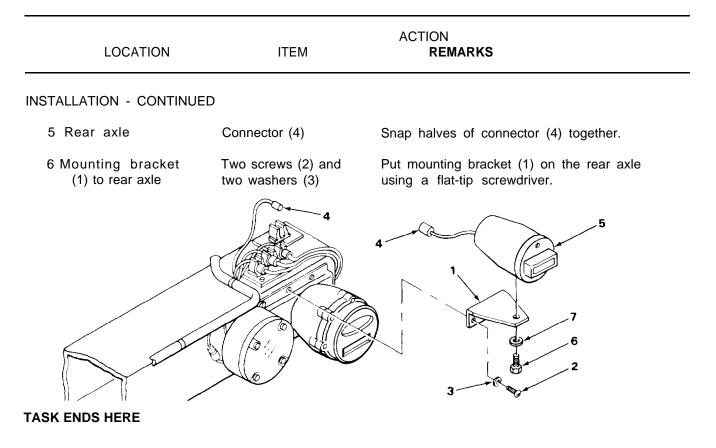
INITIAL SETUP

Tools

Flat-tip screwdriver 9/16-inch wrench

| LOCATION | ITEM | ACTION REMARKS |
|--|------------------------------------|---|
| REMOVAL | | |
| 1 Mounting bracket (1) to rear axle | Two screws (2) and two washers (3) | Take out using a flat-tip screwdriver. |
| | | NOTE |
| | | removed as an equipment condition for other mit steps 2 and 3 and set the assembly on top he wire intact. |
| 2 Rear axle | Connector (4) | Pull the halves apart. |
| 3 Light assembly (5) to mounting bracket (1) | Screw (6) and washer (7) | Take off using a 9/16-inch wrench. |
| INSTALLATION | | |
| | | NOTE |
| | | ing installed as follow-on maintenance for ations, omit steps 4 and 5 and go directly |
| 4 Light assembly (5) to mounting bracket (1) | Screw (6) and washer (7) | Put in using a 9/16-inch wrench. |

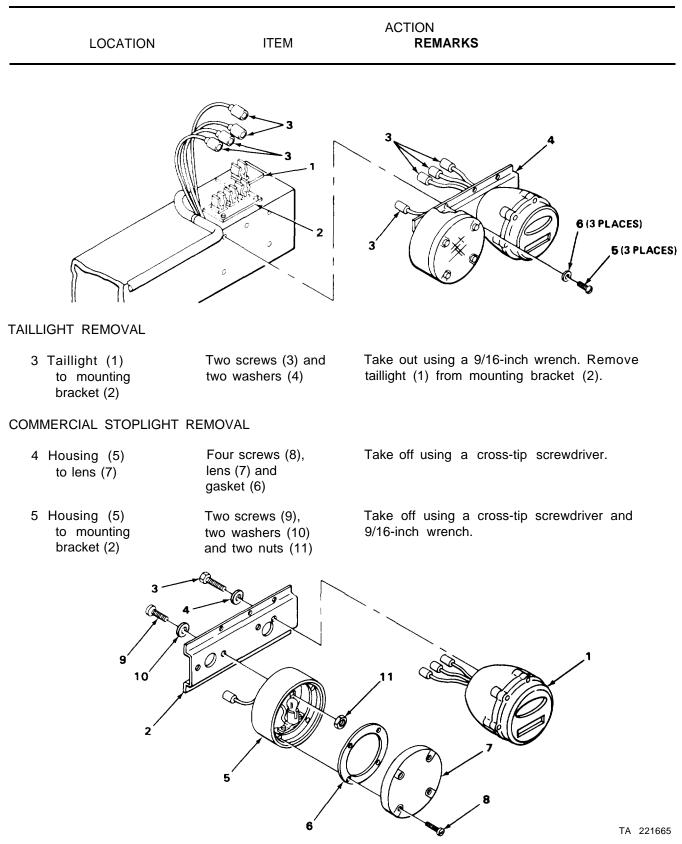
BLACKOUT STOPLIGHT REPLACEMENT - CONTINUED



LIGHT ASSEMBLIES

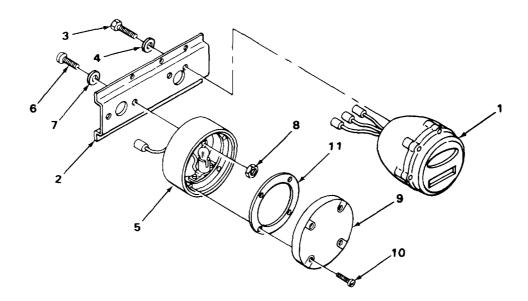
This task covers: a. Mounting bracket removal (page 4-30) e. Commercial stoplight installation b. Taillight removal (page 4-31) (page 4-32) c. Commercial stoplight removal (page 4-31) f. Mounting bracket installation d. Taillight installation (page 4-32) (page 4-33) **INITIAL SETUP** Tools Equipment Condition Blackout stoplight removed Flat-tip screwdriver (page 4-28). (Applies to right Cross-tip screwdriver side only.) ACTION LOCATION ITEM REMARKS MOUNTING BRACKET REMOVAL NOTE Make sure that the wiring on the rear axle and the light assemblies are properly identified before separating wire connectors. 1 Rear axle Clips (1) and (2) Pull connectors (3) from clips (1) and (2) and separate. and four. connectors (3) NOTE The right side mounting bracket will only have three screws. Four screws Take out using flat-tip screwdriver. Take 2 Mounting bracket (4) to rear axle (5) and four assembly from dolly. washers (6)

LIGHT ASSEMBLIES - CONTINUED

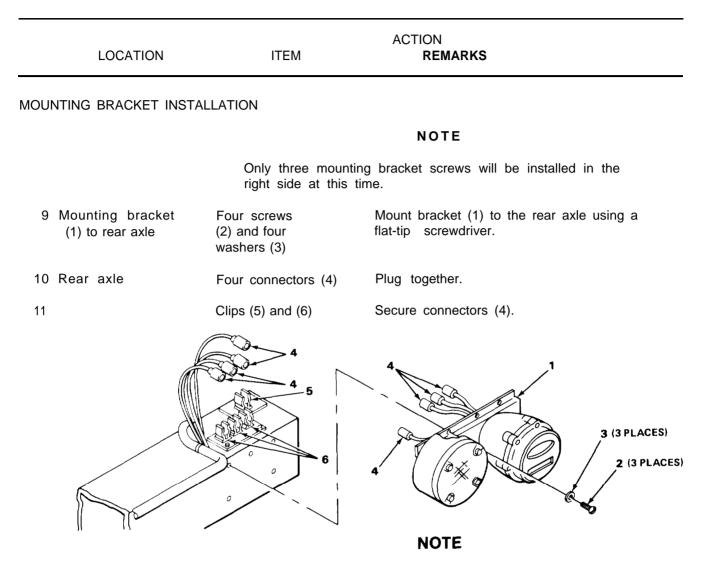


LIGHT ASSEMBLIES - CONTINUED

| LO | CATION | ITEM | ACTION REMARKS |
|---------------------------------------|-------------------|----------|--|
| TAILLIGHT INS | FALLATION | | |
| 6 Taillight (to moun bracket (| ting two w | | Secure taillight (1) to mounting bracket (2) using a 9/16-inch wrench. |
| COMMERCIAL S | STOPLIGHT INSTALL | ATION | |
| 7 Housing to moun bracket (| ting two w | | Secure housing (5) to mounting bracket (2) using a 9/16-inch wrench. |
| 8 Housing (lens (9) | | 9) and u | Secure lens (9) and gasket (11) to housing (5) using a cross-tip screwdriver. |



LIGHT ASSEMBLIES - CONTINUED



FOLLOW-ON MAINTENANCE: Install blackout stoplight (right side only (page 4-28)).

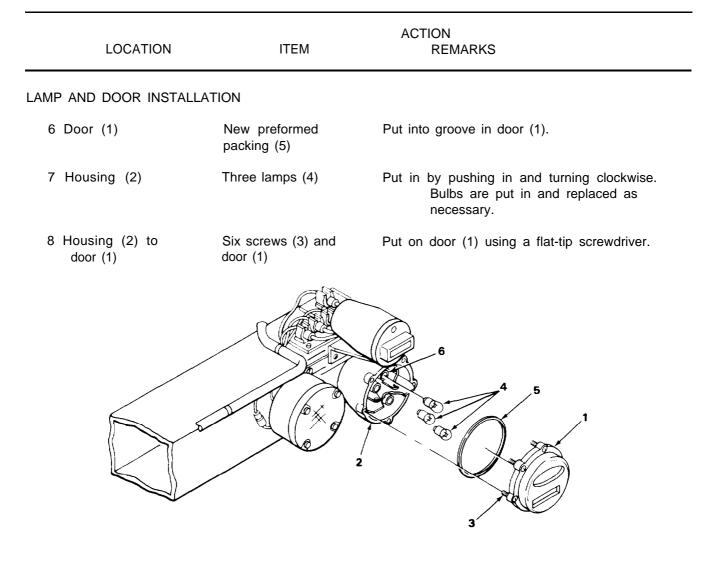
TASK ENDS HERE

TAILLIGHT

This task covers:

- a. Lamp and door removal (page 4-34)
- b. Cleaning and inspection (page 4-34)
- c. Lamp and door installation (page 4-35)

| INITIAL SETUP | | |
|------------------------------|--------------------------------------|--|
| Tools | | Materials/Parts |
| Flat-tip screwdriver | | New lamps (as required) New door packing (if required) Sandpaper, 00 |
| LOCATION | ITEM | ACTION REMARKS |
| LAMP AND DOOR REMOVAL | | |
| 1 Door (1) to housing (2) | Six screws (3) and door and lens (1) | Take out using a flat-tip screwdriver. Remove door (1). Six screws (3) are captive in the door (1). |
| | | NOTE |
| | Only r | emove the lamps that do not work. |
| 2 Taillight | Three lamps (4) | Push in and turn counterclockwise to remove. |
| CLEANING AND INSPECTION | ٨ | |
| 3 Door (1) | Preformed packing (5) | Inspect for damage. If damaged, take it out of the groove and throw it away. |
| 4 Taillight | Three sockets (6) | Inspect for corrosion if the lamp is removed. If corroded, clean with 00 sandpaper. |
| 5 | Lamps (4) | Test lamps using a multimeter (page 4-58). Throw away lamps if bad. |



TAILLIGHT - CONTINUED

TASK ENDS HERE

COMMERCIAL STOPLIGHT

This task covers:

- a. Lamp and lens removal (page 4-36)
- b. Cleaning and inspection (page 4-36)
- c. Lamp and lens installation (page 4-37)

INITIAL SETUP Tools Materials/Parts New packing (if required) Cross-tip screwdriver New lamps (if required) Sandpaper, 00 ACTION ITEM REMARKS LOCATION LAMP AND LENS REMOVAL 1 Lens (1) to Four screws (3), Take off using a cross-tip screwdriver. housing (2) gasket (4) and lens (1) 2 Housing (2) Lamp (5) Take out by pushing in and turning counterclockwise. CLEANING AND INSPECTION 3 Gasket (4) Inspect for damage. Throw away gasket if damaged. Socket (6) Inspect for corrosion. 4 If socket is corroded, clean with 00 sandpaper. Test lamp using a multimeter (page 4-58). 5 Lamp (5) Throw away lamp if bad.

| LOCATION | ITEM | ACTION REMARKS |
|------------------------------|--|---|
| LAMP AND LENS INSTALLATI | ON | |
| 6 Housing (2) | Lamp (5) | Put in by pushing in and turning clockwise. |
| 7 Housing (2) to lens (1) | Lens (1), gasket (4) and four screws (3) | Put on using a cross-tip screwdriver. |
| | | |

COMMERCIAL STOPLIGHT - CONTINUED

TASK ENDS HERE

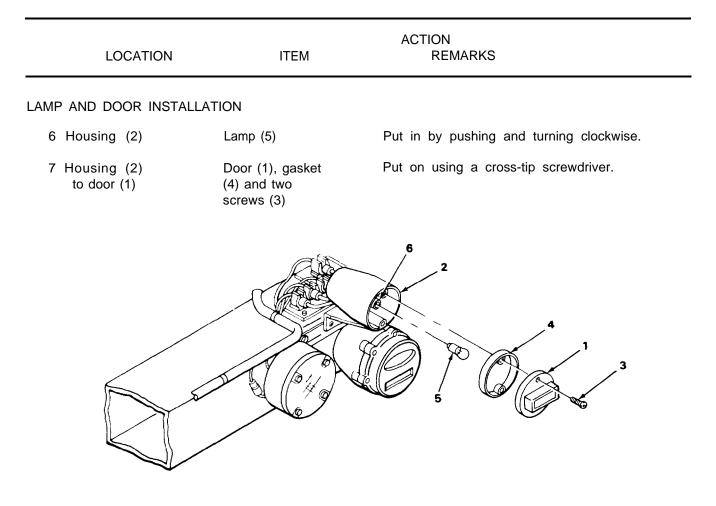
BLACKOUT STOPLIGHT

This task covers:

- a. Lamp and door removal (page 4-38)
- b. Cleaning and inspection (page 4-38)
- c. Lamp and door installation (page 4-39)

| INITIAL SETUP | | |
|------------------------------|---|--|
| Tools | | Materials/Parts |
| Cross-tip screwdriver | | New gasket (if required) New lamp (if required) Sandpaper, 00 |
| LOCATION | ITEM | ACTION REMARKS |
| LAMP AND DOOR REMOVAL | | |
| 1 Door (1) to housing (2) | Two screws (3), door (1) and gasket (4) | Take off using a cross-tip screwdriver. |
| 2 Housing (2) | Lamp (5) | Take out by pushing in and turning counter- clockwise. |
| CLEANING AND INSPECTION | N | |
| 3 | Gasket (4) | Inspect for damage. Throw away gasket if damaged. |
| 4 | Socket (6) | Inspect for corrosion. If socket is corroded, clean with 00 sandpaper. |
| 5 | Lamp (5) | Test lamp using a multimeter (page 4-58). Throw away lamp if bad. |

BLACKOUT STOPLIGHT - CONTINUED



TASK ENDS HERE

FRONT HARNESS AND JUNCTION BOX

This task covers:

- a. Junction box cover removal (page 4-40)
- b. Disassembly of components (page (4-41)

INITIAL SETUP

Tools

Flat-tip screwdriver Cross-tip screwdriver 7/16-inch open end wrench 318-inch open end wrench 7/64-inch socket head wrench c. Assembly of components (page 4-44)

d. Junction box cover installation (page 4-48)

Materials/Parts

Resistors (as required)

Applicable Configurations

Early models

NOTE

Perform only the steps in this task that are necessary to do what is needed on your particular equipment.

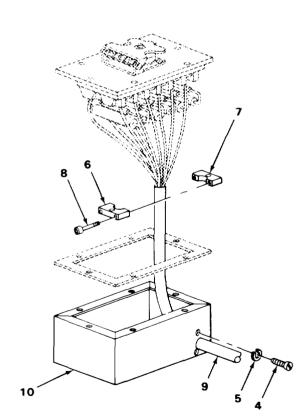
| LOCATION | ITEM | ACTION REMARKS |
|-------------------------|--------------------------|--|
| JUNCTION BOX COVER | REMOVAL | |
| 1 Junction box | Six screws (1) | Take out using cross-tip screwdriver. |
| 2 | Cover (2) and gasket (3) | Lift cover off as far as wiring will allow it to go. |
| 1 (6 PLACES) 2 | | |

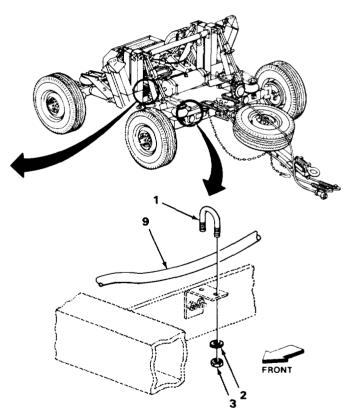
3

2

ACTION LOCATION ITEM REMARKS DISASSEMBLY OF COMPONENTS 3 Front axle U-bolt (I), two Take off using a 7/16-inch wrench. washers (2), and two nuts (3) Two screws (4) and 4 Junction box Take out using a flat-tip screwdriver. to harness clamp two washers (5) Pull harness (9) through junction box (10) 5 Front harness Clamp halves (6) and (7), and two to gain access to clamp halves (6) and (7). screws (8) Take off using a 7/64-inch socket head wrench.







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LOCATION

ACTION REMARKS

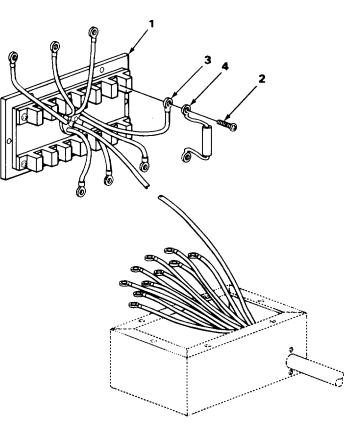
DISASSEMBLY OF COMPONENTS - CONTINUED

NOTE

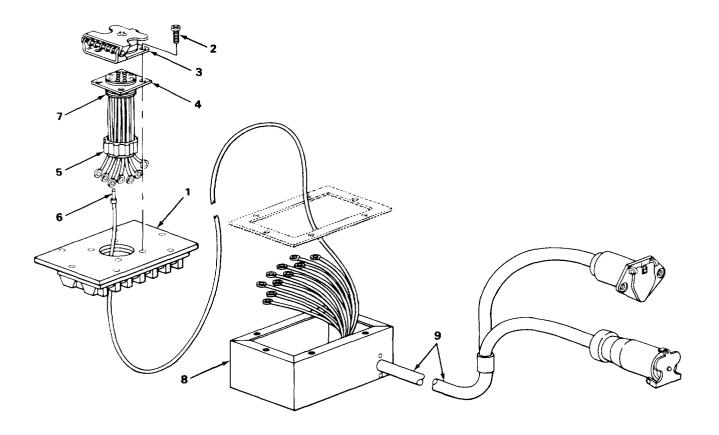
If the harness is to be used again, check that identification tags are not missing before removing wires from terminal blocks. If any are missing, be sure to tag wires before taking them off (page 4-62).

6 Junction box cover (1) (3) and six resistors (4) Take off using a flat-tip screwdriver. Take off using a flat-tip screwdriver.

ITEM



| LOCATION | ITEM | ACTION REMARKS |
|-----------------------------|---|---|
| DISASSEMBLY OF COMPON | ENTS - CONTINUED | |
| 7 Junction box cover (1) | Four screws (2), cover (3) and receptacle (4) | Take off using a cross-tip screwdriver. |
| 8 Receptacle (4) | Nut (5) and pin connector (6) | a. Take off nut using pliers.b. Pull the pin connector (6) out of grommet (7). |
| 9 Junction box (8) | Front harness (9) | Slide front harness (9) out of junction box (8). |



TA 221674

ASSEMBLY OF COMPONENTS

NOTE

Use this chart to properly locate the front harness leads.

| WIRE IDENTIFICATION TAG | | ON TERMINAL DARDS |
|----------------------------|--------|--|
| | TB-2 | TB-1 |
| C-6 C-5 | 4 2 | |
| C-3 24-284 | 6 | 1 |
| 22-460 23 21-489 | | 2 3 4 |
| 24-483 22-461 | | 5 |
| 90-C-1 C-4 | | d lug (X). "K" on arness receptacle |

ΝΟΤΕ

| WIRE IDENTIFICATION TAG | NUMBER ON TERMINAL BOARDS |
|----------------------------|------------------------------|
| | TB-2 TB-1 |
| 24-284 | 1 |
| 22-460-C-5 | 2 |
| 23 | 3 |
| 21-489 | 4 |
| 24-483 | 5 |
| 22-461 | 6 |
| 90-C-1 | Ground lug (x). "K" on |
| C-4 (front harness) | inner harness receptacle. |

Use this chart to properly locate the receptacle leads.

ASSEMBLY OF COMPONENTS - CONTINUED

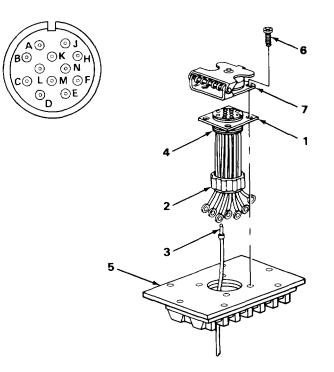
ΝΟΤΕ

Use this chart to properly locate the resistors to the terminal boards.

| RESISTOR F | | TERMINAL BOARD LOCATION | |
|--|---|---|--|
| 116821 116821 116821 116821 116821 116821 | 04-2 04-3 04-2 04-1 | TB-2 TB-1 1 1 2 2 3 3 4 4 5 5 6 6 | |
| LOCATION | ITEM | ACTION REMARKS | |
| 10 Junction box (1) | Front harness (2), gasket (3) and junction box cover (4) | a. Slide front harness (2) into the junction box (1). b. Position gasket (3) and junction box cover (4) over lead and pin connector (5). | |
| | | | |

TA 221675

| LOCATION | ITEM | ACTION REMARKS |
|------------------------------|---|---|
| ASSEMBLY OF COMPONE | ENTS - CONTINUED | |
| 11 Receptacle (1) | Nut (2) and pin connector (3) | a. Place nut (2) over pin connector (3). b. Push pin connector (3) into hole (K) of grommet (4) in receptacle (1). c. Screw nut (2) onto receptacle (1) using pliers. |
| 12 Junction box cover (5) | Four screws (6), receptacle (1) and cover (7) | Secure receptacle (1) and cover (7) to junc- tion box cover (5) with four screws (6) using a cross-tip screwdriver. |



| LOCATION | ITEM | ACTION REMARKS |
|-----------------------------------|--|--|
| ASSEMBLY OF COMPONEN | ITS - CONTINUED | |
| 13 Terminal boards (1) and (2) | Twelve screws (3), fourteen terminals (4) and six resistors (5) | Secure resistors (5) and terminals (4) with screws (3) using a cross-tip screwdriver. |
| 14 Front harness (6) | Clamp halves (7) and (8) and two screws (9) | Secure clamp halves (7) and (8) with screws (9) using a 7/64-inch socket head wrench. |
| 15 Junction box (10) | Clamp halves (7) and (8), two screws (11) and two washers (12) | Secure clamp halves (7) and (8) to junction box with screws (11) using a flat-tip screwdriver. |

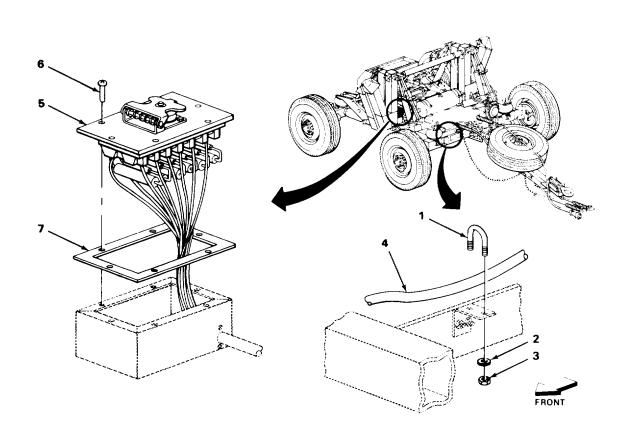
FRONT HARNESS AND JUNCTION BOX - CONTINUED

TA 221677

LOCATION

ITEM

ACTION



JUNCTION BOX AND INTERVEHICULAR CABLE

1.1.1

3

FRONT

| a. Removal (page 4-49) b. Junction box disasse (page 4-50) | mbly | (page 4-50) d. Installation (page 4-52) |
|--|--|--|
| INITIAL SETUP | | |
| Tool S | | Applicable Configurations |
| 7/16-inch wrench Flat-tip screwdriver 11/32-inch wrench | | Early models |
| LOCATION | ITEM | ACTION REMARKS |
| REMOVAL | | |
| 1 Junction box (1) | Intervehicular cable plug (2) | Pull out of receptacle (3). |
| 2 | Four screws (4) and four washers (5) | Take out using a 7/16-inch wrench. Take box off of equipment. |
| 3 Front axle | U-bolt (6), two nuts (7) and two washers (8) | Take off using a 7/16-inch wrench. Take the cable off of the equipment. |
| | | |
| | | |

FRONT

TA 221679

8

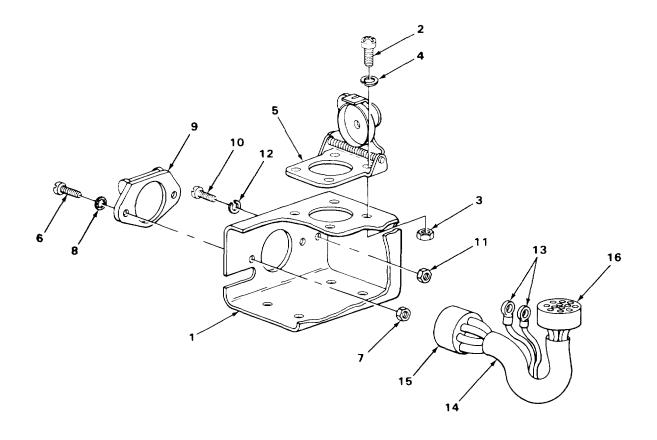
1

ij

| LOCATION | ITEM | ACTION REMARKS |
|------------------------|---|--|
| JUNCTION BOX DISASSEMI | BLY | |
| 4 Junction box (1) | Four screws (2), four nuts (3), four washers (4) and cover (5) | Take off using a flat-tip screwdriver and a 7/16-inch wrench. |
| 5 | Two screws (6), two nuts (7), two washers (8) and cover (9) | Take off using a flat-tip screwdriver and a 7/16-inch wrench. |
| 6 | Screw (10), nut (11), washer (12) and two terminals (13) | Take off using a flat-tip screwdriver and an 11/32-inch wrench. |
| 7 | Harness assembly (14) | Take out of junction box (I). |
| JUNCTION BOX ASSEMBLY | | |
| 8 Junction box (1) | Harness assembly (14) | Position inside of junction box (I). |
| 9 | Two screws (6), two washers (8), two nuts (7), cover (9) and receptacle (15) | Secure receptacle (15) and cover (9) with screws (6) and nuts (7) using a flat-tip screwdriver and a 7/16-inch wrench. |
| 10 | Four screws (2), four washers (4), four nuts (3), cover (5) and receptacle (16) | Secure receptacle (16) and cover (5) to junction box (1) with screws (2) and nuts (3) using a flat-tip screwdriver and a 7/16-inch wrench. |
| 11 | Screw (10), nut (11), washer (12) and two terminals (13) | Secure two terminals (13) with screw (10) and nut (11) using a flat-tip screwdriver and an 11/32-inch wrench. |

JUNCTION BOX AND INTERVEHICULAR CABLE - CONTINUED

JUNCTION BOX AND INTERVEHICULAR CABLE - CONTINUED



| LOCATION | ITEM | ACTION REMARKS |
|---------------|--|---|
| INSTALLATION | | |
| 12 Frame | Junction box (1) | Position on frame. |
| 13 | Four screws (2) and four washers (3) | Secure junction box (1) with screws (2) using a 7/16-inch wrench. |
| 14 | Intervehicular cable plug (4) | Plug into receptacle (5). |
| 15 Front axle | U-bolt (6), two nuts (7) and two washers (8) | Secure intervehicular cable (9) to front axle with U-bolt (6) using a 7/16-inch wrench. |
| A FRONT | | G FRONT G FRONT G G G G G G G G G G G G G G G G G G G |

JUNCTION BOX AND INTERVEHICULAR CABLE - CONTINUED

REAR HARNESS AND RECEPTACLE - EARLY MODELS

This task covers:

- a. Removal (page 4-54)
- b. Installation (page 4-54)

| INITIAL SETUP | | |
|--|--|---|
| Tools | | Applicable Configurations |
| Cross-tip screwdriver 7/16-inch wrench (two | required) | Early models |
| LOCATION | ITEM | ACTION REMARKS |
| REMOVAL | | |
| | | NOTE |
| | | the rear harness and the light harness leads entified before unplugging the connectors. |
| 1 Rear axle | Four terminal clips (1) and nine harness terminals (2) | a. Snap harness terminals (2) out of clips (I). b. Disconnect all lights from rear harness (3) at the terminals (2). |
| 2 | Cover (4), four nuts (5), four screws (6), four washers (7) and receptacle (8) | Take off using two 7/16-inch wrenches. |
| 3 | Six clamps (9), six screws (10) and six washers (11) | Take off using a cross-tip screwdriver. Remove the harness (3) from the axle. |
| INSTALLATION | | |
| 4 Rear axle | Rear harness (3) | Position on the axle. |
| 5 | Six clamps (9), six screws (10) and six washers (11) | Secure rear harness (3) to the axle using a cross-tip screwdriver. |

ACTION LOCATION ITEM REMARKS **INSTALLATION - CONTINUED** 6 Rear axle Four terminal a. Plug the halves of the harness terminals clips (1) and together. nine harness b. Snap the terminals (2) into the harness terminals (2) clip (1). Cover (4), four Secure the receptacle (8) and the cover (4) nuts (5), four to the rear axle using two 7/16-inch wrenches. screws (6), four washers (7) and receptacle (8) 2 (9 PLACES) 3 R 11 10 6 PLACES FRONT

REAR HARNESS AND RECEPTACLE - EARLY MODELS - CONTINUED

REAR HARNESS AND RECEPTACLE - LATE MODELS

This task covers:

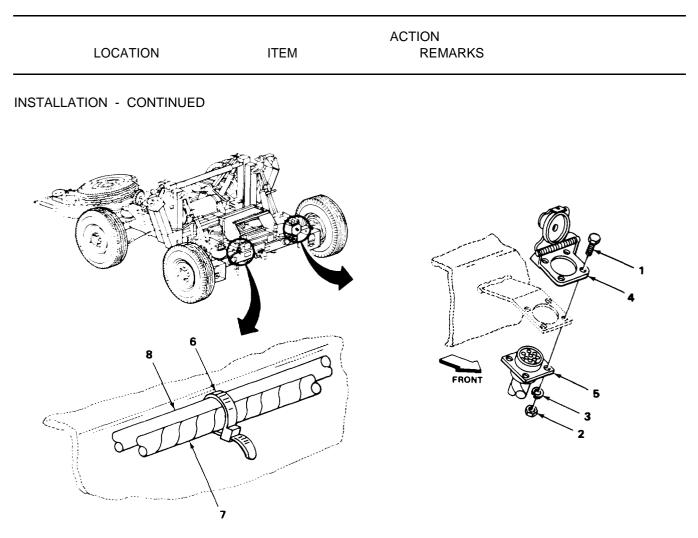
- a. Removal (page 4-56) b. Installation (page 4-56)

INITIAL SETUP

| Tools | Applicable Configurations |
|--|---------------------------------------|
| 7/16-inch wrench (two required) Cross-tip screwdriver | Late models |
| Diagonal cutting pliers | Equipment Condition |
| Materials/Parts | Composite lights removed (page 4-24). |
| Plastic wire ties (ten required) | |

| | ACTION | | |
|--------------|--|--|--|
| LOCATION | ITEM | REMARKS | |
| REMOVAL | | | |
| 1 Rear axle | Four screws (1), four nuts (2), four washers (3), cover (4) and receptacle (5) | Take off using two 7/16-inch wrenches. | |
| 2 | Ten plastic wire ties (6) | Cut off using cutting pliers. Throw away wire ties. | |
| 3 | Harness (7) | Take off of rear axle. | |
| INSTALLATION | | | |
| 4 Rear axle | Harness (7) | Position on rear axle. | |
| 5 | Ten new plastic wire ties (6) | Secure harness (7) to brake line (8) with wire ties (6). | |
| 6 | Four screws (1), four nuts (2), four washers (3), cover (4) and receptacle (5) | Secure receptacle (5) and cover (4) with screws (1) and nuts (2) using two 7/16-inch wrenches. | |

REAR HARNESS AND RECEPTACLE - LATE MODELS - CONTINUED



ΝΟΤΕ

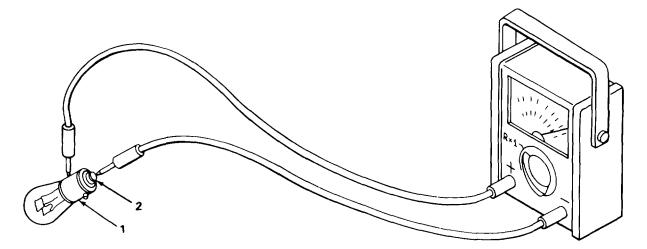
FOLLOW-ON MAINTENANCE: Install composite lights (page 4-24).

COMPONENT TESTING

This task covers:

- a. Testing lamps (page 4-58)
- b. Testing resistors (page 4-59)c. Testing harnesses (page 4-60)

| INITIAL SETUP | | |
|---------------|--------------------------|--|
| Tools | | Equipment Condition |
| Multimeter | | Lamps removed (page 4-30). Harnesses removed (page 4-40). Resistor removed (page 4-41). All power sources disconnected. Multimeter set to ohms position. |
| LOCATION | ITEM | ACTION REMARKS |
| TESTING LAMPS | | |
| 1 Lamp | Base (1) and contact (2) | Attach one lead of multimeter to base (1) and one to contact (2). Read ohms. If multimeter shows infinite resistance, throw away lamp. |



| LOCATION | ITEM | ACTION REMARKS |
|------------------|-------------------|---|
| ESTING RESISTORS | | |
| | | NOTE |
| | There are | e no resistors used in later configurations. |
| 2 Resistor | Two terminals (1) | a. Attach one lead of multi meter to each terminal (1) of resistor. b. Read multi meter. If meter shows infinite resistance, discard and replace. |
| (1 | | |
| 1 | | |
| | Je starter | |

COMPONENT TESTING - CONTINUED

COMPONENT TESTING - CONTINUED

| | | ACTION | |
|----------|------|---------|--|
| LOCATION | ITEM | REMARKS | |

TESTING HARNESSES

ΝΟΤΕ

This is a typical test procedure for a wiring harness. Refer to troubleshooting (page 4-12) and wiring schematics (pages FO-1 and FO-2) to properly use these harness test procedures.

Step 3 is a continuity check. Use the following charts to identify each individual wire in the harness.

Commercial (12-Volt) Wiring

| TERMINAL DESIGNATION | CIRCUIT NUMBER | CONNECTS TO |
|-------------------------|-------------------|-------------------|
| #1 | C-1 | Ground |
| #3 | C-3 | Left directional |
| #4 | C-4 | Stoplights |
| #5 | C-5 | Right directional |
| #6 | C-6 | Taillights |

Military (24-Volt) Wiring

| TERMINAL DESIGNATION | CIRCUIT NUMBER | CONNECTS TO |
|-------------------------|-------------------|---------------------------------|
| А | 24-484 | Left blackout taillight |
| В | 22-461 | Left stop and directional light |
| C | 24-483 | Right blackout taillight |
| D | 90 | Ground |
| E | 21-489 | Service taillight |
| F | 23 | Blackout stoplight |
| J | 22-460 | Right stop and |
| | | directional light |

| 3 Wiring harness | Harness terminals (1) and (2) | a. Attach one lead of the multi meter to each common terminal (1) and (2). If the needle does not move for every wire, the harness is bad. |
|------------------|----------------------------------|---|
| | | Repeat (a) while bending and twisting the harness. |
| | | If the needle fluctuates for any wire, the harness is bad. |

ACTION LOCATION ITEM REMARKS **TESTING HARNESSES - CONTINUED** 4 Wiring harness Harness terminals a. Attach one lead of the multi meter to one (1) and (2) terminal (1). Probe all other terminals (1) with the other lead of the multimeter. If the needle of the multimeter moves, it indicates that the harness is shorted. b. Repeat (a) while bending and twisting the harness. If the multimeter needle moves, the harness is bad. c. Repeat steps (a) and (b) for each terminal (1). , в_о ⊙K \odot \odot ဴ 24 VOLT NO, 1 NO. 7 NO. 2 C $\hat{}$ C NO. 6 NO. 3 NO. 5 NÒ. 4 **@**1 2 12 VOLT

COMPONENT TESTING - CONTINUED

WIRING HARNESS REPAIR

This task covers:

- a. Male connector repair (page 4-62)
- b. Female connector repair (page 4-63)
- c. Ring terminal replacement (page 4-64)

INITIAL SETUP

Tools

 Crimping tool
 Materials/Parts

 Cutting pliers
 Terminals (as required)

 Engraving tool
 Shells (as required)

 Flat-tip screwdriver
 New marker band

 Hand wire strippers
 Slip joint pliers

 Soldering iron
 Soldering iron

| | LOCATION | ITEM | ACTION REMARKS |
|----------------|-------------------|---------------------------|---|
| MALE CONI | NECTOR REPAIR | | |
| 1 Wire | leads (1) | Connector assembly (2) | Separate. |
| 2 Male conr | half of nector | Shell (3) | Slide back on wire lead (1). |
| 3 Wire | lead (1) | Washer (5) | Take off. |
| 4 | | Shell (3) | Slide off over contact (4). Throw away shell (3). |
| 5 | | Contact (4) | Cut off using cutting pliers. Throw away contact (4). |
| 6 | | Wire lead (1) | Strip off insulation equal to the depth of the new contact (4). |
| 7 Wire | lead (1) | Shell (3) | Slide onto wire lead (1). |
| 8 | | Contact (4) | Slide onto wire lead (1) and crimp using crimping tool. |

- d. Circuit band replacement (page 4-64)
- e. Receptacle repair (page 4-65)

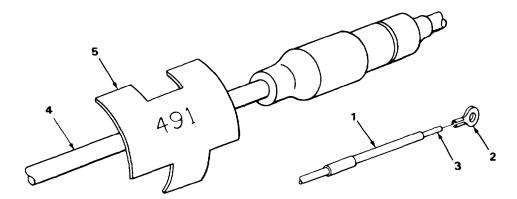
| | LOCATION | ITEM | ACTION REMARKS |
|-------------|------------------------------|--|--|
| MALE | CONNECTOR REPAIR | - CONTINUED | |
| 9 | | Retaining washer (5) | a. Slide onto lead (1).b. Slide shell (3) over washer (5) and contact (4). |
| FEMAL | E CONNECTOR REPAI | R | |
| 10 | Wire lead (1) | Shell (6) and sleeve (7) | Slide back on wire lead (1). |
| 11 | | Contact (8) | Cut off using cutting pliers. Throw away contact (8). |
| 12 | | Wire lead (1) | Strip off insulation equal to the depth of the new contact (8). |
| 13 | | Shell (6) and sleeve (7) | Slide onto wire lead (1). |
| 14 | | Contact (8), shell (6) and sleeve (7) | a. Slide onto wire lead (1) and crimp using a crimping tool.b. Slide shell (6) and sleeve (7) over contact (8). |
| 15 | | Contact, assembly (2) | Plug halves together. |
| <pre></pre> | 2 1 4 CRIMP HERE | | CRIMP HERE |

WIRING HARNESS REPAIR - CONTINUED

TA 221687

| LOCATION | ITEM | ACTION REMARKS |
|------------------------|------------------------|--|
| RING TERMINAL REPLACE | MENT | |
| 16 Wire lead (1) | Terminal (2) | Cut off using cutting pliers. Throw away terminal (2). |
| 17 | Wire (3) | Strip off insulation equal to the depth of the new terminal (2). |
| 18 Wire lead (1) | Terminal (2) | a. Slide onto the end of wire (3), b. Crimp using crimping tool. |
| CIRCUIT BAND MARKER RE | PLACEMENT | |
| 19 Wire lead (4) | Marker band (5) | Open tabs and remove using a flat-tip screwdriver. Note number on the band and throw the band away. |
| 20 | New marker band (5) | Engrave the number using the engraving tool. |
| 21 | New marker band (5) | Put on wire lead (4) and bend tabs over using crimping tool. |

WIRING HARNESS REPAIR - CONTINUED



| LOC | ATION | ITEM | AC | CTION REMARKS |
|---------------|------------------|----------------------------------|----------------|--|
| RECEPTACLE RE | EPAIR | | | |
| 22 Connector | (1) | Nut (2) | Take | off using pliers. |
| 23 | | Grommet (3) | Take | out. |
| 24 Grommet | (3) | Pins (4) | Pull c | out of grommet. |
| 25 pins (4) | | Wire leads (5) | Remo | ove by melting solder with soldering iron. |
| | | | | NOTE |
| | | Only | unsolder the | leads that need to be repaired. |
| 26 pins (4) | | Wire leads (5) | b. Wh | at the solder well in pin (4). hile solder is hot, insert wire lead (5) o it. |
| 27 Grommet | (3) | Pin (4) | Insert | pin (4) into the grommet (3). Follow chart to put pins in the proper location. |
| 28 Connector | (1) | Grommet (3) Put grommet (3) into | | rommet (3) into connector (1). |
| 29 | | Nut (4) | Screw | / on using pliers. |
| TERMINAL | | TERMINAL | CIRCUIT | |
| DESIGNATION | NO. | DESIGNATION | NO. | |
| Α | 24 AND 484 | н | 490 | |
| B | 22 AND 461 | J | 22 AND 460 | |
| C D | 24 AND 483 90 | <u>К</u> К | BLANK BLANK | 1 |
| E | 21 AND 489 | M | BLANK | le |
| 1 - | | 1 + | 1 1 | |

WIRING HARNESS REPAIR - CONTINUED

TASK ENDS HERE

TA 221689

Section VIII AXLE MAINTENANCE

| | Page | | Page |
|---|--------------|---|--------------|
| Front and Rear Axle Arms Front Axle Beam Front Wheel Toe-in Rear Axle Beam | 4-82 4-66 | Rear Spindles Steering Arm Steering Knuckles Tie Rod Assembly | 4-76 4-69 |

FRONT WHEEL TOE-IN

This task covers:

Adjustment (page 4-66)

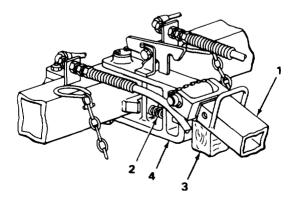
INITIAL SETUP

Tools

Pipe wrench 9/16-inch wrench Socket, 9/16-inch by 1/2-inch drive Ratchet handle, socket wrench, 1/2-inch drive Toe-in bar Equipment Condition

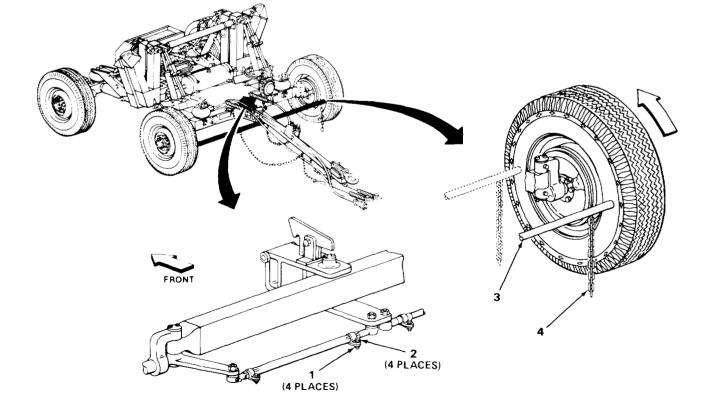
Spare tire removed (page 3-8).

| LOCATION | ITEM | ACTION REMARKS |
|--------------|---|---|
| 1 Front axle | Towbar (1), cen- tering pin (2) and woodblock (3) | a. Visually center steering arm (4). b. Lift towbar (1). c. Place woodblock (3) on centering pin (2). d.: Have an assistant lower the towbar so that it engages the centering pin through the woodblock (3). |



| LOCATION | ITEM | ACTION REMARKS |
|---------------------------------------|-----------------------------------|---|
| 2 Left and right side tie rods | Four nuts (1) and four screws (2) | Loosen using a 9/16-inch wrench and a 9/16- inch socket wrench. |
| 3 Rear inside edges of front tires | Toe-in bar (3) | Attach toe-in bar (3) to rear inside edges of tire. Bar should be situated so that two reference chains (4) just touch the ground. Record toe-in bar reading. |
| 4 Dolly set | Toe-in bar (3) | Slowly roll the dolly set backwards until the toe-in bar (3) is in front of the axle. The bar should be at the height where the reference chains (4) just touch the ground. The reading on the toe-in bar should be 1/4 inch less in front of the axle than it was behind the axle. |





FRONT WHEEL TOE-IN - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|---------------------------|-----------------------------------|---|
| 5 Left and right tie rods | Two tubes (1) | Turn the tubes (1) using a pipe wrench to adjust the toe-in. The wheels should toe in 1/4 inch. |
| 6 | Four nuts (2) and four screws (3) | Tighten using a 9/16-inch wrench and a 9/16- inch socket wrench. |
| 7 Towbar to centering pin | Wood block (4) | Take out. |
| FRONT | | |

ΝΟΤΕ

FOLLOW-ON MAINTENANCE: Install spare tire (page 3-8).

STEERING KNUCKLES

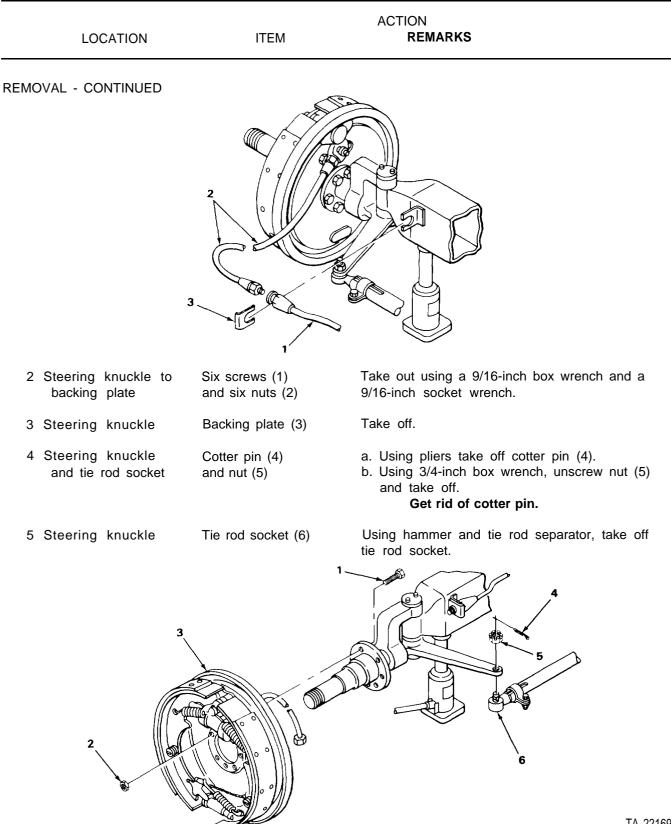
This task covers:

- a. Removal (page 4-69)
- b. Installation (page 4-72)

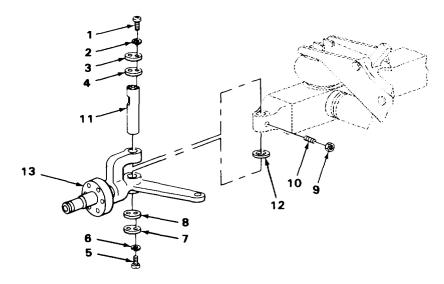
INITIAL SETUP

Tools - Continued Tools Socket, 9/16-inch by 1/2-inch drive Hammer 3/4-inch wrench 5/32-inch socket head wrench Tie rod separator 7/16-inch wrench Cutting pliers Materials/Parts Punch 9/16-inch wrench Ratchet handle, 1/2-inch drive New cotter pin 1/2-inch wrench Equipment Condition 5/8-inch wrench Hub and brake drum removed (page 4-132).

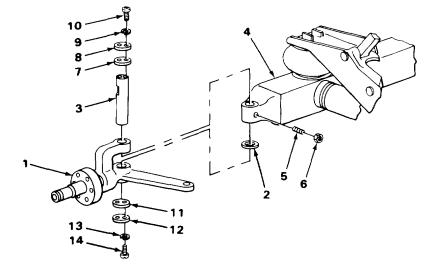
| | LOCATION | ITEM | ACTION REMARKS | |
|---------|----------|---|---|--|
| REMOVAL | | | NOTE | |
| | | Procedure is for the removal of one knuckle. The procedure for both sides is identical. | | |
| 1 Front | axle | Hydraulic tube (1), brake hose (2) and clip (3) | a. Snap out clip using a flat-tip screwdriver. b. Take tube (1) out of hose (2) using 5/8-inch and 7/16-inch wrenches. | |



| LOCATION | ITEM | ACTION REMARKS |
|------------------------------------|---|--|
| REMOVAL - CONTINUED | | |
| 6 Steering knuckle, top side | Two screws (1) two lockwashers (2), cover plate (3) and gasket (4) | a. Using 5/32-inch key, unscrew screws and take off.b. Take off remaining parts. |
| 7 Steering knuckle, bottom side | Two screws (5), two lockwashers (6), cover plate (7) and gasket (8) | a. Using 5/32-inch key, unscrew and take off screws (5).b. Take off remaining parts, |
| 8 Steering knuckle | Nut (9), and setscrew (10) | a. Using 1/2-inch box wrench, unscrew nut (9) part way. b. Using 5/32-inch key, unscrew and take off setscrew (10) and nut. |
| 9 Axle beam | Kingpin (11), thrust washer (12) and steering knuckle (13) | a. Using hammer and punch, take out kingpin (11).b. Take off remaining parts. |



| LOCATION | ITEM | ACTION REMARKS |
|-------------------------------------|--|---|
| INSTALLATION | | |
| 10 Axle beam | Steering knuckle (1), thrust washer (2) and kingpin (3) | a. Place steering knuckle (1) and thrust washer (2) in position on axle beam (4). b. Put in kingpin (3). Make sure flat on kingpin is alined to setscrew. |
| 11 Steering knuckle | Setscrew (5) and nut (6) | a. Using 5/32-inch socket head wrench, screw in setscrew (5) and tighten. b. Using 1/2-inch box wrench, screw in nut (6) and tighten, |
| 12 Steering knuckle, top side | Gasket (7), plate (8), two washers (9) and two screws (10) | Position plate (8) and gasket (7) on top of knuckle and secure with two screws (10) using a 5/32-inch socket head wrench. |
| 13 Steering knuckle, bottom side | Gasket (11), plate (12), two washers (13) and two screws (14) | Position plate (12) and gasket (11) on bottom of knuckle and secure with two screws (14) using a 5/32-inch socket head wrench. |



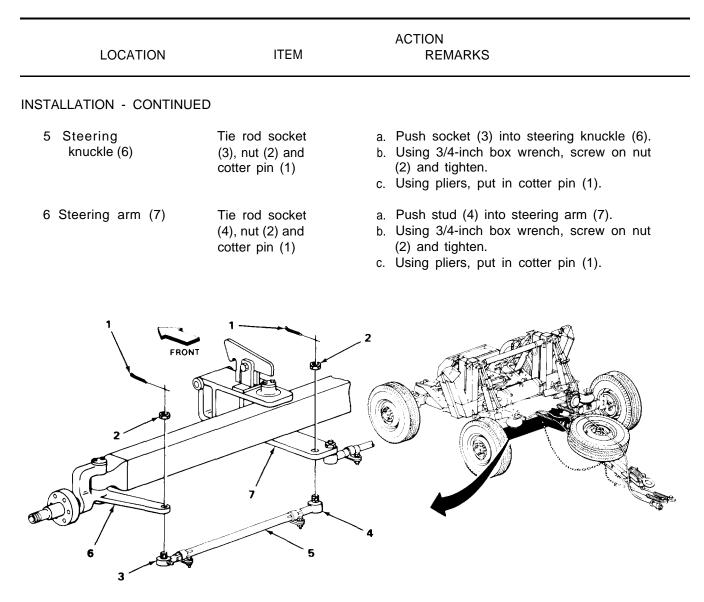
| LOCATION | ITEM | ACTION REMARKS |
|----------------------------|---|---|
| INSTALLATION - CONTINU | IED | |
| 14 Steering knuckle | Tie rod socket (1), nut (2) and cotter pin (3) | a. Push socket (1) into steering knuckle (4). b. Using 3/4-inch box wrench, screw on nut (2) and tighten. c. Using pliers, put in new cotter pin (3). |
| 15 Steering knuckle (4) | Backing plate (5), six screws (6) and six nuts (7) | a. Put backing plate (5) on. b. Secure with six screws (6) and six nuts (7) using a 9/16-inch box wrench and a 9/16-inch socket wrench. |
| 16 Front axle | Brake tube (8), brake hose (9) and clip (10) | a. Secure brake tube (8) to brake hose (9) using 5/8-inch and 7/16-inch wrenches.b. Snap in clip (10). |
| 7 | | NOTE |
| | FOLLOW-ON M | /AINTENANCE: |
| | 2. Install hub a | ngpin (page 4-2). nd drum (page 4-132). |

3. Bleed brakes (page 4-112).

TIE ROD ASSEMBLY

| This task covers: | | | | |
|---|-------------------|-------------------------------|--|--|
| a. Removal (pag b. Installation (p | | | | |
| INITIAL SETUP | | | | |
| Tools | | | Materials/Parts | |
| Hammer, hand Diagonal cutti Tie rod separ 3/4-inch box v | ng pliers ator | | Cotter pin (two required) | |
| LOCA | ΓΙΟΝ | ITEM | ACTION REMARKS | |
| REMOVAL | | | | |
| | | NOTE | | |
| | | Removal and in rod. | stallation procedures are given for one tie | |
| 1 Steering kn | | Cotter pin (1) and nut (2) | a. Using pliers, pull out cotter pin (1). b. Using 3/4-inch box wrench, unscrew nut (2) and take off. Get rid of cotter pin. | |
| 2 | - | Tie rod socket (3) | Using a tie rod separator and hammer, take off tie rod socket (3). | |
| 3 Steering ar | m - | Tie rod socket (4) | a. Repeat steps 1 and 2 for tie rod socket (4).b. Take off tie rod assembly (5). | |
| INSTALLATION | | | | |
| 4 Steering kn and steerin | | Tie rod assembly (5) | Place tie rod assembly (5) in position at steering knuckle (6) and steering arm (7). | |

TIE ROD ASSEMBLY - CONTINUED





FOLLOW-ON MAINTENANCE: Aline front wheels (page 4-66).

STEERING ARM

This task covers:

- a. Removal (page 4-76) b. Installation (page 4-76)

INITIAL SETUP

| ols | Materials/Parts |
|--|--------------------------------------|
| 5/32-inch socket head wrench Hammer, hand | New cotter pins |
| Punch | Equipment Condition |
| Tie rod end separator | |
| Diagonal cutting pliers | Towbar removed (page 4-143). |
| 3/4-inch wrench | Towbar uplatch removed (page 4-147). |

| LOCATION | ITEM | ACTION REMARKS |
|--------------------|--|--|
| REMOVAL | | |
| 1 Steering arm (1) | Two cotter pins (2) and two nuts (3) | a. Remove cotter pins (2) using diagonal pliers. b. Remove nuts (3) using a 3/4-inch wrench. Throw away old cotter pins. |
| 2 | Two tie rod sockets (4) | Remove from steering arm (1) using tie rod end separator. |
| 3 | Cover (5), gasket (6), two screws (7) and two washers (8) | Remove using a 5/32-inch socket head wrench |
| 4 | Headless pin (9) | Remove using a hammer and punch. |
| 5 | Pivot pin (10), two bearings (11) and two bearings (12) | Remove using a hammer and punch. Remove steering arm (1). |
| INSTALLATION | 5 () | |
| 6 Front axle | Steering arm (1) and pivot pin (10) | a. Position steering arm (1) on axle.b. Install bearings (11) and (12).c. Install pivot pin (10). |

| LOCATION | ITEM | ACTION REMARKS |
|--------------------------|--|---|
| INSTALLATION - CONTINUED |) | |
| 7 Steering arm (1) | Headless pin (9) | Tap into steering arm to secure pivot pin (10). |
| 8 | Cover (5), gasket (6), two screws (7) and two washers (8) | Secure cover (5) and gasket (6) with two screws (7) using a 5/32-inch socket head wrench. |
| 9 | Two tie rod sockets (4), two nuts (3) and two cotter pins (2) | a. Push tie rod sockets (4) into holes in steering arms. b. Install two nuts (3) using a 3/4-inch wrench. c. Install two new cotter pins (2) using diagonal pliers. |
| | FRONT | |
| | | |

STEERING ARM - CONTINUED

ΝΟΤΕ

FOLLOW-ON MAINTENANCE:

- Install towbar (page 4-143).
 Install towbar uplatch (page 4-147).
 Lubricate related fittings (page 4-2).

TASK ENDS HERE

TA 221698

FRONT AND REAR AXLE ARMS

This task covers:

a. Removal (page 4-78)

b. Installation (page 4-79)

INITIAL SETUP

| Tools | Materials/Parts |
|---|---------------------------------------|
| 1-inch wrench Hammer, hand | New cotter pins (if required) |
| Punch, pin Socket, 1-inch by 3/4-inch drive | Equipment Condition |
| Extension, 16 inches by 3/4-inch drive Flat-tip screwdriver | Handbrake applied. Wheels chocked. |
| Diagonal cutting pliers | |

| | | ACTION |
|----------|------|---------|
| LOCATION | ITEM | REMARKS |

REMOVAL

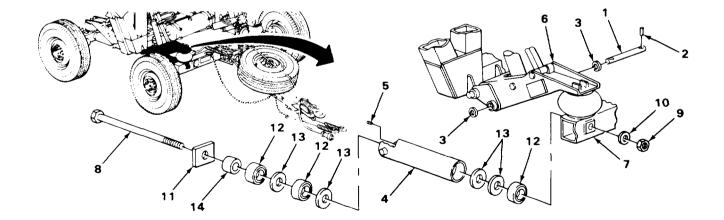
CAUTION

Make sure that the wheels are securely chocked from both the front and rear. If the dolly set moves with an axle arm removed it will destroy one or more of the air mounts.

| 1 Pin (1) | Two roll pins (2) and two washers (3) | Remove roll pin (2) using a hammer and punch. Take off washers (3). |
|-------------------------------------|---|---|
| 2 Axle arm (4) to pin (1) | Setscrew (5) | Remove using a flat-tip screwdriver. |
| 3 Axle arm (4) to rocker arm (6) | Pin (1) | Tap out with a hammer and punch. |

| LOCATION | ITEM | ACTION REMARKS |
|-------------------------------------|--|---|
| REMOVAL - CONTINUED | | |
| 4 Axle arm (4) to axle beam (7) | Screw (8), nut (9), washer (10), washer (11), three insula- tors (12), four washers (13) and rubber washer (14) | Remove using a 1-inch wrench and a l-inch socket wrench. Remove axle arm (4). |
| INSTALLATION | | |
| 5 Axle beam (7) | Screw (8), nut (9), washer (10), washer (11), three insula- tors (12), four washers (13) and rubber washer (14) | a. Assemble parts to axle arm (4) in the order shown.b. Secure axle arm (4) to axle beam (7) using a 1-inch wrench and a 1-inch socket wrench. |
| 6 Axle arm (4) to rocker arm (6) | Pin (1) | Tap into place using a hammer. |
| 7 Axle arm (4) to pin (1) | Setscrew (5) | Install using a flat-tip screwdriver. |
| 8 pin (1) | Roll pin (2) | a. Install washers (3). b. Install roll pin (2) using a hammer and punch. |

FRONT AND REAR AXLE ARMS - CONTINUED



TASK ENDS HERE

TA 221699

REAR SPINDLES

This task covers:

- a. Removal (page 4-80)
- b. Installation (page 4-80)

INITIAL SETUP

| Tools | Tools - Continued |
|--------------------------------------|----------------------------|
| 9/16-inch wrench | 3/4-inch wrench |
| Socket, 9/16-inch by 3/8-inch | |
| drive | Equipment Condition |
| Handle, reversible ratchet, 1/2-inch | |
| Square drive | Hub and brake drum removed |
| 5/8-inch wrench | (page 4-1 32). |
| 3/8-inch wrench | |
| | |

| LOCATION | ITEM | ACTION REMARKS |
|--|--|---|
| REMOVAL | | |
| 1 Wheel cylinder (1) | Brake hose (2) | Remove using 3/8-inch and 5/8-inch wrenches. |
| 2 Spindle (3) to backing plate (4) | Six screws (5) and six nuts (6) | Remove using a 9/16-inch wrench and a 9/16- inch socket wrench. |
| 3 Spindle (3) to axle beam (7) | Two screws (8), two screws (9), two nuts (10) and four washers (11) | a. Remove two screws (9), two washers (11) and two nuts (10) using two 3/4-inch wrenches. b. Remove two screws (8) and two washers (11) using a 3/4-inch wrench. c. Remove spindle (3) from between backing plate (4) and axle beam (7). Backing plate (4) will remain attached to the handbrake cable. |
| INSTALLATION | | |
| 4 Backing plate (4) and axle beam (7) | Spindle (3) | Position into backing plate (4) and on axle beam (7). |
| 5 Spindle (3) to axle beam (7) | Two screws (8), two screws (9), two nuts (10) and four washers (11) | a. Install two screws (8) and two washers (11) using a 3/4-inch wrench. b. Install two screws (9), two nuts (10) and two washers (11) using two 3/4-inch wrenches. |

| LOCATION | ITEM | ACTION REMARKS |
|---------------------------------------|---------------------------------|---|
| ISTALLATION - CONTINUE | D | |
| 6 Spindle (3) to backing plate (4) | Six screws (5) and six nuts (6) | Install using a 9/16-inch wrench and 9/16- inch socket wrench. |
| 7 Wheel cylinder (1) | Brake hose (2) | Install using 3/8-inch and 5/8-inch wrenches. |
| | | |

REAR SPINDLES - CONTINUED



FOLLOW-ON MAINTENANCE:

- Install hub and drum (page 4-132).
 Bleed brakes (page 4-112).

TASK ENDS HERE

TA 221700

FRONT AXLE BEAM

This task covers:

a. Removal (page 4-82)

b. Installation (page 4-84)

INITIAL SETUP

| Tools | Equipment Condition - Continued |
|---|--|
| 1/2-ton hydraulic floor jack | Safety chains removed (page 4-148). |
| Jackstands (two required) | Data plates removed (page 4-162). |
| 7/16-inch wrench | Reflectors removed (page 4-158). Hydraulic pump removed (page 4-163). |
| Personnel Required | Brake chamber tee removed (page 4-1 26). |
| Тwo | Front axle hydraulic brake lines removed (page 4-104). |
| Equipment Condition | Master cylinder removed (page 4-116). Air chamber removed (page 4-120). |
| Dolly set coupled together (page 2-19). | Shock absorbers removed (page 4-152). |
| Handbrake applied. | Steering knuckles removed (page 4-69). |
| Steering arm removed (page 4-76). Intervehicular air hoses removed (page 4-1 20). | |

| LOCATION | ITEM | ACTION REMARKS |
|-----------------------|---|--|
| REMOVAL | | NOTE |
| | | edure will begin with the steering knuckles olly set will be supported under the front axle nds. |
| 1 Front axle beam (1) | Hydraulic floor jack (2) and two jackstands (3) | a. Raise dolly set by placing hydraulic jack (2) under axle beam (1). b. Place two jackstands (3) under rocker arms (4) at the point where the frame adapter (5) pivots. c. Lower the floor jack (2) until the rocker arms (4) just touch the jackstands (3). Do not lower the floor jack all the way at this time. |

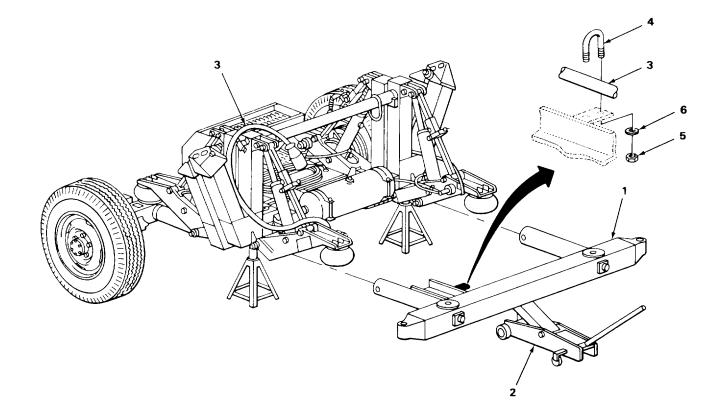
ACTION LOCATION ITEM REMARKS **REMOVAL - CONTINUED** 2 Front axle beam (1) U-bolt (6), Remove using a 7/16-inch wrench. Temporarily stow intervehicular two nuts (7) and two washers (8) cable (9) on the frame adapter (5). 3 Hydraulic floor a. Slowly lower axle to the floor. jack (2) Axle will pivot on the axle arms (10). b. Remove axle arms (10) (page 4-78). Axle should now be fully removed. 6 9 я 10 5 0 10 3 2

FRONT AXLE BEAM - CONTINUED

FRONT AXLE BEAM - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|---|---|---|
| INSTALLATION | | |
| 4 Floor under front of dolly set | Axle beam (1) and hydraulic floor jack (2) | a. Position parts for installation.b. Install axle arms (page 4-78).c. Raise axle beam (1) into position using hydraulic jack (2). |
| 5 Front axle beam (1) to inter- vehicular cable (3) | U-bolt (4), two nuts (5) and two washers (6) | Secure intervehicular cable (3) with U-bolt (4), two nuts (5) and two washers (6) using a 7/16-inch wrench. |
| 6 Front axle beam (1) | Hydraulic floor jack (2) and two jackstands (3) | a. Raise the dolly set off of two jackstands (3) using hydraulic floor jack (2) under the front axle beam (1). b. Place the jackstands (3) under the front axle beam (1). |

axle beam (1). c. Lower the dolly set onto jackstands (3).



FRONT AXLE BEAM - CONTINUED

| | | ACTION | |
|----------|------|---------|--|
| LOCATION | ITEM | REMARKS | |

NOTE

FOLLOW-ON MAINTENANCE:

- 1. Install steering knuckles (page 4-69).
- 2. Install shock absorbers (page 4-152).
- 3. Install steering arm (page 4-76).
- 4. Install air chamber (page 4-120).
- 5. Install master cylinder (page 4-1 16).
- 6. Install hydraulic brake lines (page 4-104).
- 7. Install hydraulic pump (page 4-163).
- 8. Install relay valve (page 4-120).
- 9. Install brake chamber tee (page 4-126).
- 10. Install intervehicular air hoses (page 4-120).
- 11. Install safety chains (page 4-148).
- 12, Install data plates (page 4-162).
- 13. Install reflectors (page 4-158).

TASK ENDS HERE

REAR AXLE BEAM

This task covers:

a. Removal (page 4-86)

b. Installation (page 4-88)

INITIAL SETUP

| Tools | Equipment Condition - Continued |
|--|--|
| 1 1/2-ton hydraulic floor jack Jackstands (two required) | Composite lights removed - late models only (page 4-24). Light assemblies removed (page 4-30). |
| Personnel Required | Rear harness removed - early models (page 4-54). |
| Тwo | late models (page 4-56). Folding stairway removed (page 4-1 56), |
| Equipment Condition | Pintle removed (page 4-146). Data plates removed (page 4-1 62). |
| Spindles removed (page 4-80). | Reflectors removed (page 4-1 58). |
| Hydraulic pump removed (page 4-163). Brake chamber removed (page 4-1 20). Master cylinder removed (page 4-1 16). Handbrake lever removed (page 4-90). Handbrake cables removed (page 4-90). Shock absorbers removed (page 4-152). | Rear axle hydraulic brake lines removed (page 4-104). |

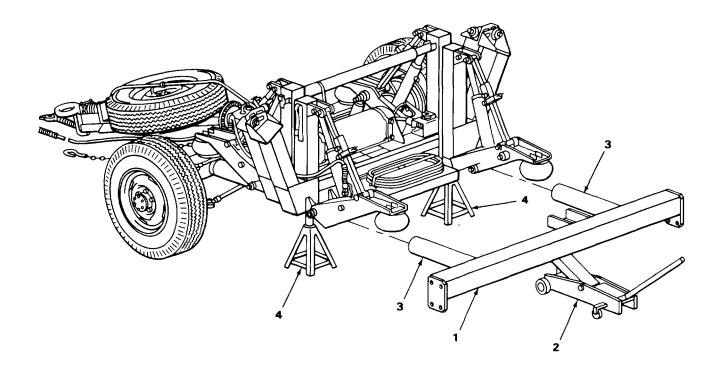
| LOCATION | ITEM | ACTION REMARKS |
|----------------------|---|---|
| REMOVAL | | |
| | | NOTE |
| | | edure will begin with the spindles removed, I be supported under the rear axle by two |
| 1 Rear axle beam (1) | Hydraulic floor jack (2) and two jackstands (3) | a. Raise dolly set by placing hydraulic jack (2) under axle beam (1). b. Place two jackstands (3) under rocker arms (4) at the point where the frame adapter (5) pivots. |

REAR AXLE BEAM - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|----------------------|-----------------------------|--|
| REMOVAL - CONTINUED | | |
| 2 Rear axle beam (1) | Hydraulic floor jack (2) | a. Slowly lower the floor jack (2) to the ground. The axle will come down, pivoted on the axle arms (6). b. Remove the axle arms (6) (page 4-80). The axle beam (1) should now be free for removal. |
| | | |

REAR AXLE BEAM - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|------------------------------------|---|---|
| INSTALLATION | | |
| 3 Floor under rear of dolly set | Axle beam (1) and hydraulic floor jack (2) | a. Position parts for installation. b. Install axle arms (3) (page 4-80). c. Raise axle beam (1) into position using hydraulic jack (2). |
| 4 Axle beam (1) | Hydraulic floor jack (2) and two jackstands (4) | a. Raise dolly set until the jackstands (4) are free. b. Place jackstands (4) under front axle beam (I). c. Lower jack (2) so that jackstands (4) are supporting the dolly. |



REAR AXLE BEAM - CONTINUED

| LOCATION | ITEM | ACTION REMARKS | |
|----------|--|---|-----------|
| | | NOTE | |
| | FOLLOW-ON M | AINTENANCE: | |
| | Install hydra Install brake Install master Install master Install hydra Install rear h models (particle) Install shock Install comp Install comp Install light Install pintle Install handl Install foldin Install foldin Install data | k absorbers (page 4-152). osite lights - late models only (pag assemblies - early models only (pa | ge 4-24). |

TASK ENDS HERE

Section IX BRAKE SYSTEM MAINTENANCE

| | | Page | | Page |
|--|--|------------------------|--|------------------------|
| Air Brake System | | 4-120 4-90 4-104 | Master Cylinder | 4-116 4-96 4-118 |
| HANDBRAKESYSTEM | | | | |
| This task covers: | | | | |
| a. Lever removal (page 4-90 b. Cable removal (page 4-92 | | | c. Cable installation (page 4-92) d. Lever installation (page 4-94) | |
| INITIAL SETUP | | | | |
| Tools | | | Materials/Parts | |
| 1/2-inch wrench (two requ Cross-tip screwdriver | ired) | | New cotter pins | |
| Diagonal cutting pliers 7/8-inch wrench (two requ | ired) | | Equipment Condition | |
| | | | Service brake disassembled (page 4-96). | |
| LOCATION | ITEN | M | ACTION REMARKS | |
| LEVER REMOVAL | | | | |
| | | | NOTE | |
| | Step 1 a models | | b late models only. Step 2 applies to early | |
| 1 Bottom side of rear axle beam | Lever (1), three screws (2), the washers (3) a three spacers | nree and | Remove using a 1/2-inch wrench. Catch spacers (4) as they fall out of lever (1). | |
| 2 Rear brake chamber bracket | Lever (1), thre screws (5), th washers (6), nuts (7) and spacers (8) | nree three | Remove using two 1/2-inch wrenches. Catch spacers (8) as they fall out lever. | of |
| | | | NOTE | |

Steps 3 and 4 apply to all models.

ACTION LOCATION ITEM REMARKS LEVER REMOVAL - CONTINUED 3 Lever (1) Pin (9), washer a. Remove cotter pin (11) using cutting (10) and cotter pliers. b. Remove pin (9) and washer (10). pin (11) Throw away cotter pin (11). 4 Screw (12), nut a. Remove using two 1/2-inch wrenches. (13), washer (14) b. Remove lever assembly (1) from the and spacer (15) cables (16). 8 5 65 2 EARLY MODELS LATE MODELS 11 9 10 Ø 12 đ 13 14 \mathcal{T} Ð 16 5

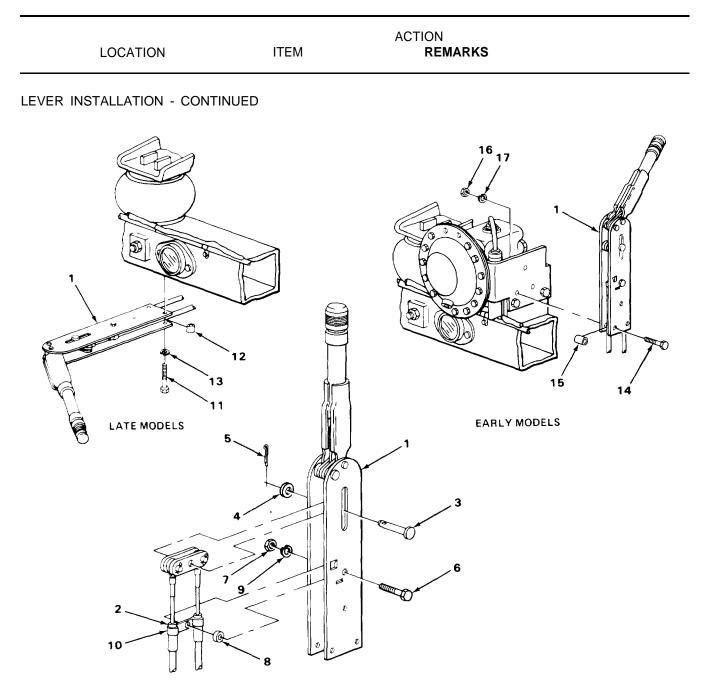
HANDBRAKE SYSTEM - CONTINUED

TA 221705

| LOCATION | ITEM | | ACTION Remarks |
|---|--|--|---|
| CABLE REMOVAL | | | |
| | | | NOTE |
| | procedure procedure The only c | for the left or for early or la difference is the beam. The f | is for the removal of one cable. The right side is the same. The ate model cables is also the same. The number of clamps holding the cable following chart gives this |
| - | APPLICATION | CLAMPS | |
| | Left side - early Right side - early Left side - late Right side - late | 2 3 0 1 | |
| 5 Left or right side backing plate (1) | | | While holding nut (3), remove nut (4) using two 7/8-inch wrenches. Pull cable (2) from backing plate (1). |
| 6 Lever end of cab | ble Cotter pin (5), pin (6) and two links (7) | b. | Remove cotter pin (5) using cutting pliers. Remove pin (6) and pull end of cable (2) free of two links (7). Remove clamp (8) from cable (2). Throw away cotter pin (5). |
| 7' Rear axle beam | Clamps (9), screws (10) and washers (11) | d b. | Remove from axle beam using a cross-tip screwdriver. Spread clamps (9) and remove from cable (2). |
| CABLE INSTALLATION | | | |
| 8 Left or right side backing plate (1) | | b. ' | Push cable (2) through backing plate (1). While holding nut (3), install nut (4) using two 7/8-inch wrenches. |
| 9 Lever end of cab | ble Cotter pin (5), pin (6) and two links (7) | b. | Secure cable (2) to links (7) with pin (6). Install new cotter pin (5) using cutting pliers. |

| LOCATION | ITEM | ACTION REMARKS |
|------------------------|--|--|
| CABLE INSTALLATION - C | ONTINUED | |
| 10 Rear axle beam | Clamps (9), screws (10) and washers (11) | a. Place clamps (9) on cable (2). b. Secure to axle beam with screws (10) and washers (11). c. Install clamp (8) on cable (2). |
| | | |

| LOCATION | ITEM | ACTION REMARKS |
|----------------------------------|---|--|
| LEVER INSTALLATION | | |
| 11 Lever (1) | Cable and link assembly (2), pin (3), washer (4) and cotter pin (5) | a. Position assembly (2) in lever (1).b. Secure with pin (3).c. Secure pin (3) with washer (4) and a new cotter pin (5). |
| 12 | Screw (6), nut (7), spacer (8) and washer (9) | a. Secure assembly (2) to lever (1) screw (6) and spacer (8). Screw goes through two clamps (10). b. Secure screw (6) with nut (7) and washer (9) using two 1/2-inch wrenches. |
| | | NOTE |
| | Step 13 applies the early models only | to late models only. Step 14 applies to y. |
| 13 Bottom side of rear axle beam | Lever (1), three screws (11), three spacers (12) and three washers (13) | Secure lever (1) with screws (11) and washers (13) using a 1/2-inch wrench. Spacers (12) are in between the legs of lever (1). |
| 14 Rear brake chamber bracket | Lever (1), three screws (14), three spacers (15), three nuts (16) and three washers (17) | Secure lever (1) with screws (14), nuts (16) and washers (17). Spacers (15) are in between legs of lever (1). |



ΝΟΤΕ

FOLLOW-ON MAINTENANCE: Assemble service brake (page 4-96).

TASK ENDS HERE

SERVICE BRAKE

This task covers:

- a. Disassembly (page 4-96)
- b. Inspection criteria (page 4-98)

INITIAL SETUP

| Tools | | Materials/Parts |
|--|-------------|---|
| Brake spring pliers Brake shoe adjusting Slip joint pliers | g tool | Horseshoe clip, handbrake lever retaining |
| Diagonal cutting plie | | Equipment Condition |
| Brake shoe retaining Flat-tip screwdriver | spring tool | Hub and brake drum removed (page 4-132). |
| | ITEM | ACTION REMARKS |

c. Assembly (page 4-98)

d. Adjustment (page 4-102)

DISASSEMBLY

WARNING

Brake lining material contains asbestos. Breathing of dust from lining; is extremely hazardous. Wear a filter-mask whenever working with brake shoes.

| 1 Service brake assembly | Two springs (1) | Remove using brake spring pliers. |
|-----------------------------|---|---|
| 2 | Guide (2), cable (3), retainer (4) and washer (5) | a. Pull out guide (2) and remove together with cable (3).b. Take off retainer (4) and washer (5). |
| 3 | Two washers (6), two springs (7), two washers (8) and two pins (9) | Remove parts. a. Push in on washer (6) using spring retainer tool. b. Rotate washer (6) about 90 degrees and release it. c. Take pins (9) out from the rear. |

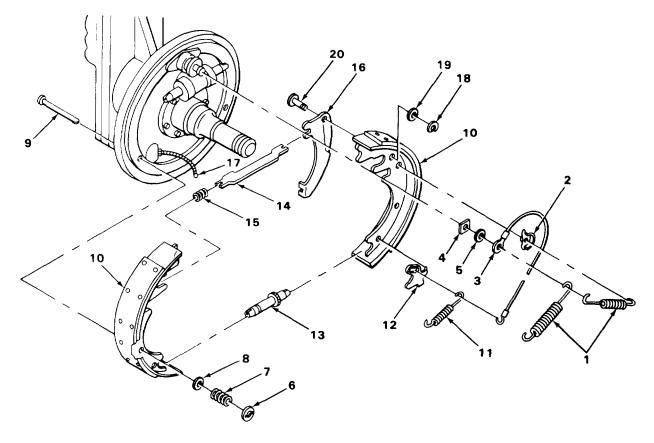
ΝΟΤΕ

Since the front dolly does not have a handbrake system, the two front service brakes will not contain struts (14), spring (15) and lever (16). If working on the front, dolly service brakes, omit steps 5 and 6.

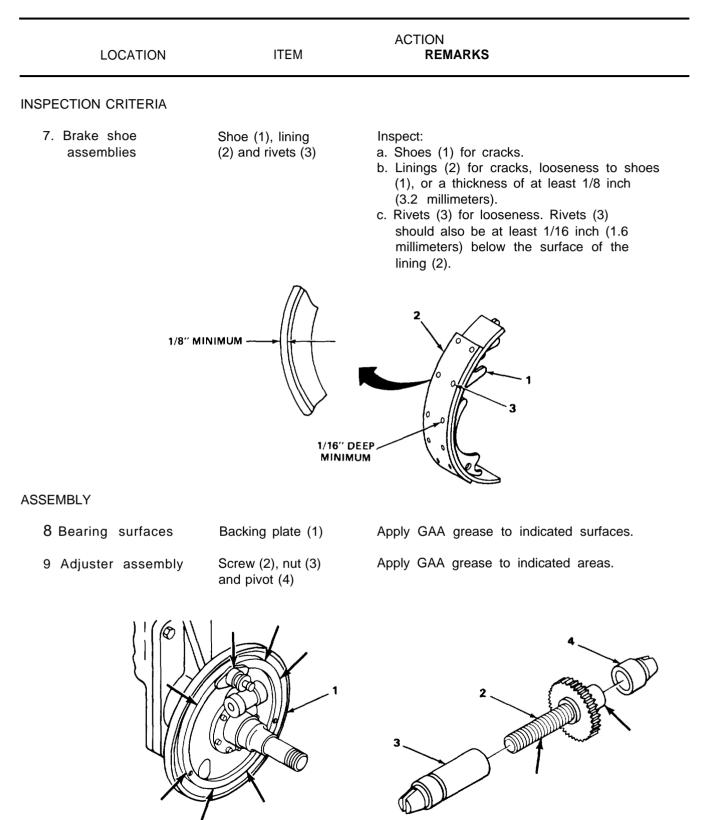
ACTION ITEM LOCATION REMARKS **DISASSEMBLY - CONTINUED** 4 Two brake shoes Remove parts from backing plate. a. Spread shoes (10) apart from the top (10), spring freeing them from the wheel cylinder (11), lever (12), pins. Take out strut (13) and spring (14). adjuster (13), b. Remove shoes (10), spring (11), lever strut (14) and (12) and adjuster (13) as an assembly. spring (15) Disassemble all parts from shoes (10)

SERVICE BRAKE - CONTINUED

| | | c. Disassemble all parts from shoes (10). |
|----------------------------|--|---|
| 5 Brake shoe lever (16) | End of cable (17) | Remove using diagonal pliers. Use pliers to retract spring on cable (17) and take off. |
| 6 Brake shoe (10) | Lever (16), horseshoe clip (18), washer (19) and pin (20) | Remove parts using fiat-tip screwdriver and slip joint pliers. Throw away horseshoe clip (18). |



TA 221708

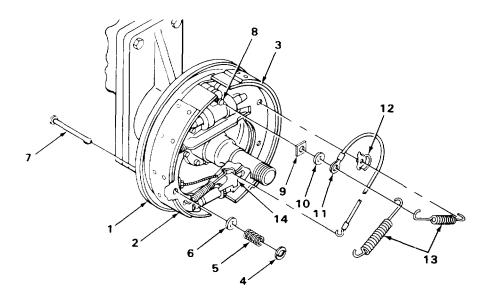


| LOCATION | ITEM | ACTION REMARKS |
|----------------------|--|--|
| ASSEMBLY - CONTINUED | | |
| | | NOTE |
| | Steps 10 and 11 brakes are being | should be omitted if the front dolly service worked on. |
| 10 Brake shoe (1) | Lever (2), pin (3), horseshoe clip (4) and washer (5) | a. Secure lever (2) to brake shoe (1) with pin (3). b. Secure pin (3) with horseshoe clip (4) and washer (5). Squeeze horseshoe clip (4) with pliers to tighten. |
| 11 Backing plate (6) | End of handbrake cable (7) and lever (2) | Secure lever (2) to handbrake cable (7) using diagonal pliers. a. Use pliers to pull back spring on cable. Squeeze pliers to hold. b. Insert lever (2) and release pliers. |
| 6 | | |

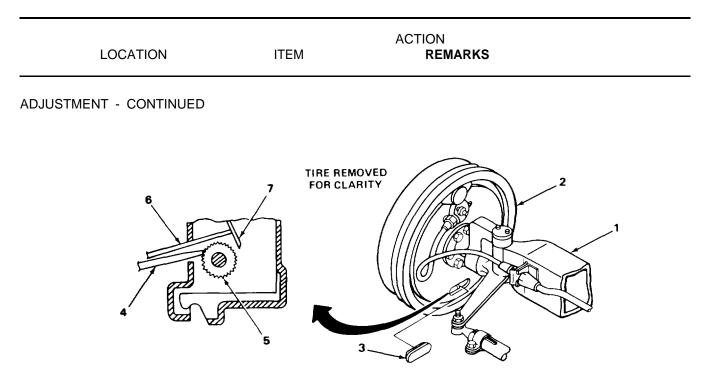
TA 221710

| LOCATION | ITEM | ACTION REMARKS |
|------------------------------------|--|--|
| ASSEMBLY - CONTINUED | | |
| 12 Backing plate (1) | Front shoe (2), rear shoe (3), adjuster assembly (4), lever (5) and spring (6) | a. Hook lever (5) into rear shoe (3). b. Hook spring (6) between lever (5) and front shoe (2). c. Spread shoes (2) and (3) apart at the bottom far enough to insert adjuster assembly (4). |
| | | NOTE |
| | Step 13 should b are being worked | e omitted if the front dolly service brakes on. |
| 13 Lever (7) and front shoe (2) | Strut (8) and spring (9) | a. Place spring (9) over end of strut (8). b. Position parts between lever (7) and front shoe (8). c. Hook shoes (2) and (3) into two wheel cylinder links (10). |
| | | |

| LOCATION | ITEM | ACTION REMARKS |
|--|---|---|
| ASSEMBLY - CONTINUED | | |
| 14 Backing plate (1) to front shoe (2) and rear shoe (3) | Two washers (4), two springs (5), two washers (6) and two pins (7) | Insert pins (7) through backing plate (1) and shoes (2) and (3). Secure shoes (2) and (3) with washers (4), springs (5) and washers (6) using spring retaining tool. |
| 15 Anchor pin (8) | Retainer (9), washer (10) and cable (11) | a. Install retainer (9) and washer (10).b. Install end of cable (11) with the ring on it. |
| 16 Shoes (2) and (3) to anchor pin (8) | Guide (12) and two springs (13) | a. Install guide (12) on rear shoe (3). b. Hang cable (11) over guide (12). c. Install springs (13) using brake spring pliers. |
| 17 Lever (14) | Cable (11) | a. Pry lever (14) upward using a flat-tip screwdriver.b. Install hooked end of cable (11) into lever (14). |



| LOCATION | ITEM | ACTION REMARKS |
|----------------------|--|---|
| ADJUSTMENT | | |
| 18 Axle (1) | Hub and drum | Install (page 4-132). |
| 19 Backing plate (2) | Adjusting hole cover (3) | Pry out using a flat-tip screwdriver. |
| | | NOTE |
| | | e brakes need to be tightened. Do step 21 if to be loosened. |
| 20 | Brake adjusting tool (4) | a. Insert tool (4) to engage adjusting wheel (5). b. Pull down on tool (4) to rotate wheel (5) in the desired direction. Tighten the brake until a slight drag is felt when rotating the wheel. |
| 21 | Brake adjusting tool (4) and flat-tip screw- driver (6) | a. Insert screwdriver (6) to engage adjusting lever (7). Use screwdriver (6) to push the lever (7) clear of adjusting wheel (5). b. Insert adjusting tool (4) to engage adjusting wheel (5). c. Pull up on tool (4) to rotate wheel (5) in the desired direction. Loosen the brake until the wheel rotates with a slight drag. |



ΝΟΤΕ

FOLLOW-ON MAINTENANCE: Adjust handbrake - rear dolly only (page 3-4).

TASK ENDS HERE

HYDRAULIC BRAKE LINES

This task covers:

- a. Hose removal front dolly (page 4-104)
- b. Hose removal rear dolly (page 4-105)
- c. Tube removal front dolly (page 4-106)
- d. Tube removal rear dolly (page 4-107)
- e. Tube installation rear dolly (page 4-108)

- f. Tube installation front dolly (page 4-109)
- g. Hose installation rear dolly (page 4-110)
- h. Hose installation front dolly (page 4-111)
- i. Bleed brakes manual (page 4-112)
- j. Bleed brakes pressure bleeder
- , (page 4-114)

INITIAL SETUP

Tools

7/16-inch wrench 5/8-inch wrench Cross-tip screwdriver Diagonal cutting pliers Flat-tip screwdriver

Materials/Parts

Wire ties (as required) Brake fluid, type BFS 3/16 I.D. hose

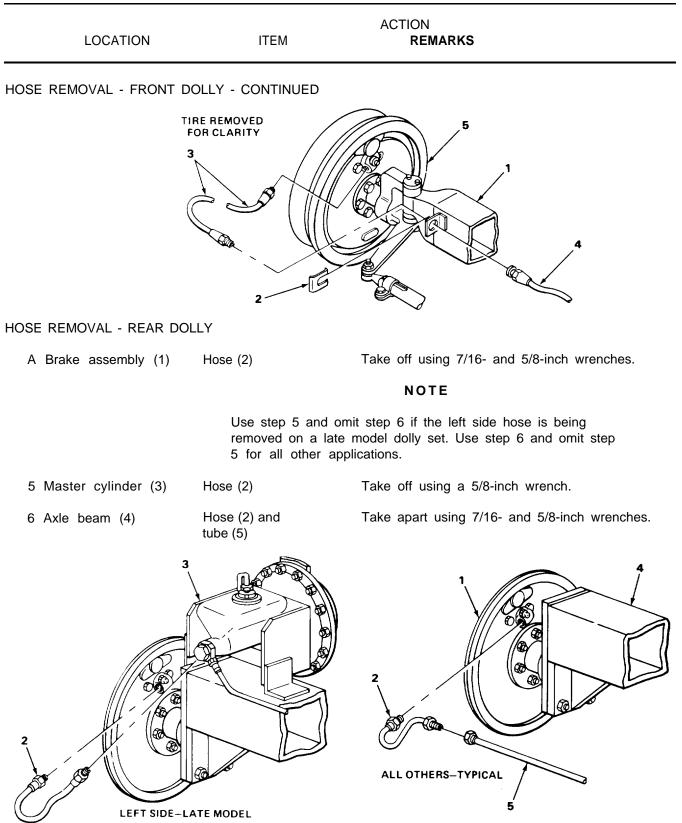
| | | ACTION | |
|----------|------|---------|--|
| LOCATION | ITEM | REMARKS | |

HOSE REMOVAL - FRONT DOLLY

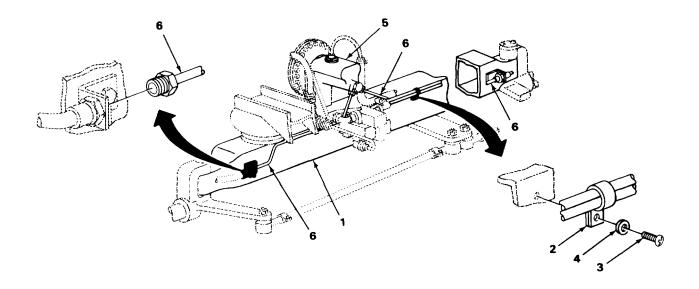
ΝΟΤΕ

This is a typical procedure for the left or the right side brake.

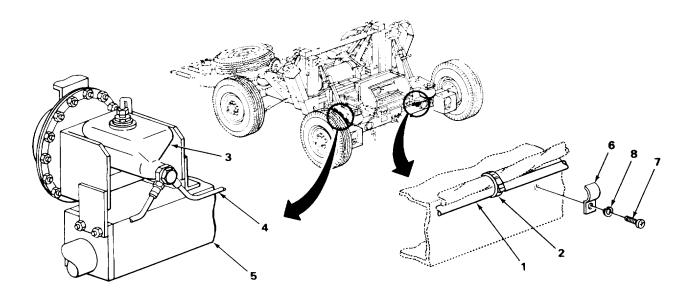
| 1 Axle beam (1) | Clip (2) | Pry off using a flat-tip screwdriver. |
|----------------------|--------------------------|---|
| 2 | Hose (3) and tube (4) | Take apart using 7/16- and 5/8-inch wrenches. |
| 3 Brake assembly (5) | Hose (3) | a. Hold using a 5/8-inch wrench. b. Take off using a 7/16-inch wrench. |



| LOCATION | ITEM | ACTION REMARKS | |
|-------------------------|--|---|--|
| TUBE REMOVAL - FRONT DO | LLY | | |
| | | NOTE | |
| | This is a typical brake. | procedure for the left or the right side | |
| | If the left side bra | ake tube is being removed, omit step 7. | |
| 7 Axle beam (1) | Two clamps (2), two screws (3) and two washers (4) | Take out using a cross-tip screwdriver. | |
| 8 Master cylinder (5) | Tube (6) | Disconnect using a 7/16-inch wrench. Remove tube (6) from dolly set. | |

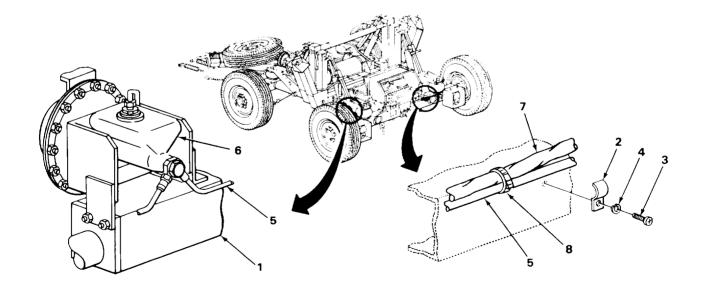


| LOCATION | ITEM | ACTION REMARKS | |
|-------------------------|--|---|--|
| TUBE REMOVAL - REAR DOL | LY | | |
| | | NOTE | |
| | This is a typical brakes. | I procedure for the left or right side | |
| | | dolly sets there is no left side brake tube. clamps holding the right side tube. | |
| | - | dolly sets there are two clamps on the right . There are no clamps holding the left side | |
| | Step 9 applies | only to late models, right side. | |
| 9 Brake tube (1) | Ten wire ties (2) | Cut off using cutting pliers. | |
| 10 Master cylinder (3) | Tube (4) | Disconnect using a 7/16-inch wrench. | |
| 11 Axle beam (5) | Clamps (6), screws (7) and washers (8) | Take off using a cross-tip screwdriver (if applicable). | |

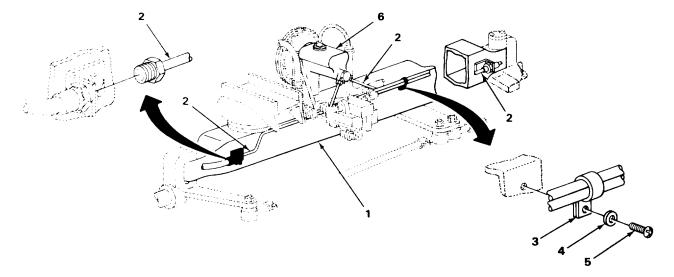


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| LOCATION | ITEM | ACTION REMARKS | | |
|--------------------------------|--|---|--|--|
| TUBE INSTALLATION - REAR DOLLY | | | | |
| | | NOTE | | |
| | This is a typical pro brakes. | ocedure for the left or the right side | | |
| | | y sets there is no left side brake tube. ps holding the right side tube. | | |
| | | ly sets there are two clamps on the right ere are no clamps holding the left side | | |
| | Step 14 applies only | y to late models, right side. | | |
| 12 Axle beam (1) | Clamps (2), screws (3) and washers (4) | a. Position tube (5) on axle beam (1).b. Secure with clamps (2), screws (3) and washers (4) (if applicable). | | |
| 13 Master cylinder (6) | Tube (5) | Connect using a 7/16-inch wrench. | | |
| 14 Wiring harness (7) | Ten wire ties (8) | Secure harness (7) to tube (5) with wire ties (8). | | |

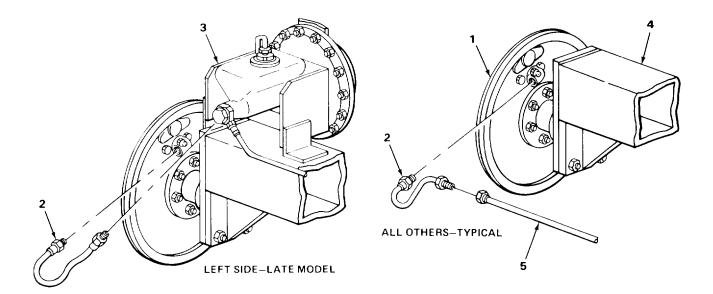


| LOCATION | ITEM | ACTION REMARKS |
|--------------------------|---|---|
| TUBE INSTALLATION - FROM | IT DOLLY | |
| | | NOTE |
| | This is a typical p brake. | procedure for the left or the right side |
| | If the left side tub | be is being installed, omit step 15b. |
| 15 Axle beam (1) | Brake tube (2), two clamps (3), two screws (4) and two washers (5) | a. Position tube (2) on axle beam (1).b. Secure with clamps (3), screws (4) and washers (5) using a cross-tip screwdriver. |
| 16 Master cylinder (6) | Brake tube (2) | Connect using a 7/16-inch wrench. |

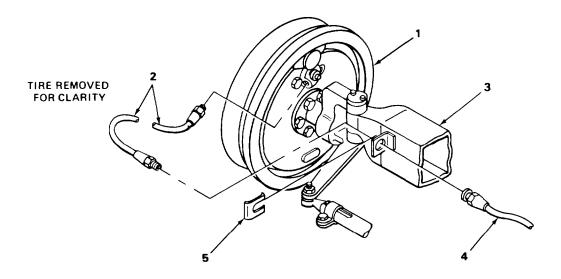


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| LOCATION | ITEM | ACTION REMARKS |
|--------------------------|--------------------------------|---|
| HOSE INSTALLATION - REAF | R DOLLY | |
| | | NOTE |
| | This is a typic brake. | cal procedure for the left or the right side |
| 17 Brake assembly (1) | Hose (2) | Connect using 7/16- and 5/8-inch wrenches. |
| | | NOTE |
| | Use step 18 a on late model | and omit step 19 when installing left side hose dolly sets. |
| | Use step 19 | and omit step 18 for all other applications. |
| 18 Master cylinder (3) | Hose (2) | Connect using a 7/16-inch wrench. |
| 1 g Axle beam (4) | Hose (2) and tube (5) | Connect using 7/16- and 5/8-inch wrenches. |



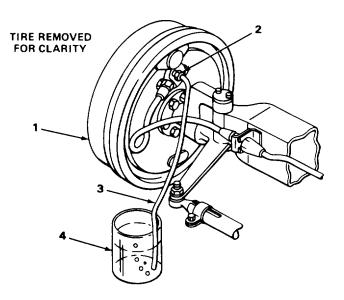
| LOCATION | ITEM | ACTION REMARKS |
|--------------------------|--------------------------|---|
| HOSE INSTALLATION - FROM | T DOLLY | |
| | | NOTE |
| | This is a typical brake. | procedure for the left or the right side |
| 20 Brake assembly (1) | Hose (2) | Connect using 7/16- and 5/8-inch wrenches. |
| 21 Axle beam (3) | Hose (2) and tube (4) | Connect using 7/16- and 5/8-inch wrenches. |
| 22 | Hose (2) and clip (5) | Use clip (5) to secure hose (2) to axle beam (3). |



| LOCATION | ITEM | ACTION REMARKS | |
|--------------------------------|--|---|--|
| BLEED BRAKES - MANUALLY | (| | |
| | | NOTE | |
| | | should be used only when a pressure bleeder is a pressure bleeder is available go to | |
| | To bleed the bra to a towing vehi | akes manually, the dolly set must be connected cle. | |
| | This is a typical system. | procedure for the front or the rear brake | |
| | cylinder while bl | Keep a constant check on the fluid level of the master cylinder while bleeding the brakes. Failure to do so could cause air to enter system. | |
| 23 Two brake assemblies (1) | Two bleeder screws (2) | Open by turning counterclockwise approximately one full turn using a 7/16-inch wrench. | |
| 24 | Two hoses (3) | Push one length of hose (3) onto each bleeder screw (2). Hoses should be approximately 18 inches in length each. | |
| 25 | Two jars (4) | a. Fill two jars (4) approximately halfway. b. Place the free end of one hose (3) into each jar (4). The free end of the hose must be fully submersed in the brake fluid. | |
| | | NOTE | |
| | Have an assistant pump the brake pedal in the tow vehicle. | | |
| 26 Tow vehicle | | Pump the brake pedal in the tow vehicle until the brake fluid in the two jars (4) is free of all air bubbles. | |
| 27 Two brake assemblies (1) | Two bleeder screws (2) | a. Close bleeder screws (2) using a 7/16-inch wrench.b. Remove two hoses (3). | |

HYDRAULIC BRAKE LINES - CONTINUED

BLEED BRAKES - MANUALLY - CONTINUED

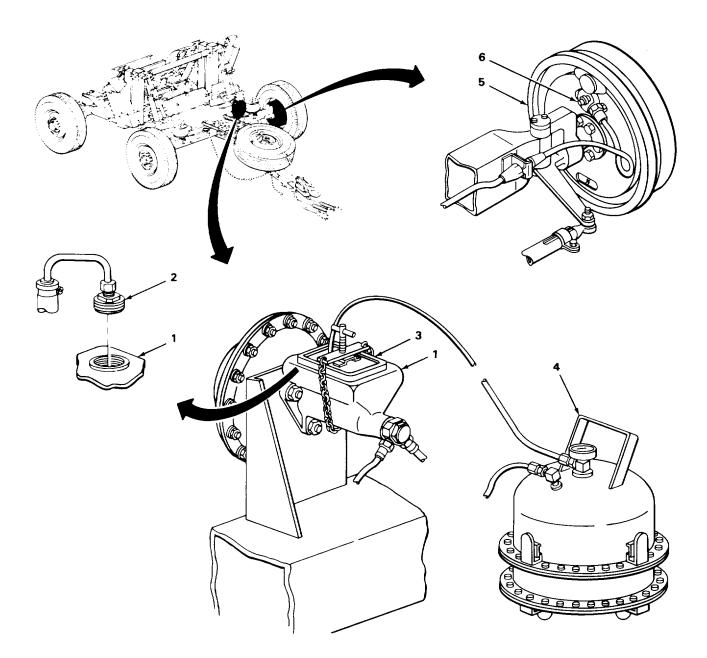


HYDRAULIC BRAKE LINES - CONTINUED

| | LOCATION | ITEM | ACTION REMARKS |
|------|---------------------|---------------------------------|--|
| BLEE | D BRAKES - PRESSURE | BLEEDER | |
| | | | NOTE |
| | | | hould be used whenever a pressure bleeder If this unit is unavailable, bleed brakes I-112). |
| | | This procedure is | s typical of both the front and rear dollies. |
| | | | ructions for operation of the pressure applicable operator's instructions. |
| 28 | Master cylinder (1) | Cap (2) | Remove using 5/8- and 1-inch wrenches. |
| 29 | Pressure bleeder | Adapter (3) | Attach to master cylinder (1). |
| 30 | | Tank (4) | a. Check or add brake fluid.b. Pressurize to 10 to 20 psi (13.6 to 27.1 N·m). |
| | | | NOTE |
| | | Bleed the brake cylinder first. | assembly which is furthest from the master |
| 31 | Brake assembly (5) | Bleeder screw (6) | a. Open by turning 1/2 to 3/4 turn counter-clockwise using a 7/16-inch wrench. b. Leave open until there are no air bubbles in the brake fluid. c. When fluid is running as a solid mass, close the bleeder screw. d. Repeat procedure for the opposite brake assembly. |
| 32 | Pressure bleeder | Tank (4) | Remove pressure. |
| 33 | | Adapter (3) | Remove from master cylinder (1). |
| 34 | Master cylinder (1) | Cap (2) | Install using l-inch and 5/8-inch wrenches. |

HYDRAULIC BRAKE LINES - CONTINUED

BLEED BRAKES - PRESSURE BLEEDER - CONTINUED



TASK ENDS HERE

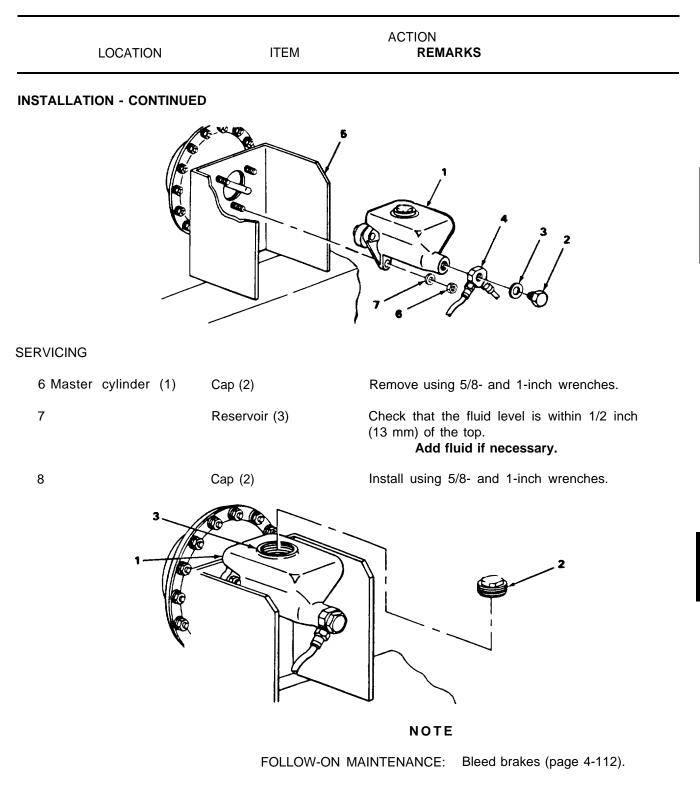
MASTER CYLINDER

This task covers:

- a. Removal (page 4-116)
- b. Installation (page 4-116)
- c. Servicing (page 4-117)

INITIAL SETUP Materials/Parts Tools 9/16-inch wrench Brake fluid, type BFS 1-inch open end wrench 5/8-inch wrench 3/4-inch wrench ACTION LOCATION ITEM REMARKS REMOVAL NOTE This procedure is typical for the front and rear brake systems. 1 Master cylinder (1) Screw (2), washer Remove using a 3/4-inch wrench. (3) and tee (4) Three nuts 2 Mounting Remove using a 9/16-inch wrench. bracket (5) (6) and three Remove master cylinder, being careful that the brake chamber does not come washers (7) off. **INSTALLATION** 3 Mounting Master Slide onto three studs (8). bracket (5) cylinder (1) Three nuts Secure master cylinder (1) using a 9/16-inch 4 (6) and three wrench. washers (7)

MASTER CYLINDER - CONTINUED



TASK ENDS HERE

TA 221723

WHEEL CYLINDER

This task covers:

- a. Removal (page 4-118)
- b. Installation (page 4-118)

INITIAL SETUP

| Tools | | Equipment Condition | |
|------------------|------|--|--|
| 9/16-inch wrench | | Service brake disassembled (page 4-96). Front brake hose removed (page 4-104). Rear brake hose removed (page 4-104). | |
| LOCATION | ITEM | ACTION REMARKS | |

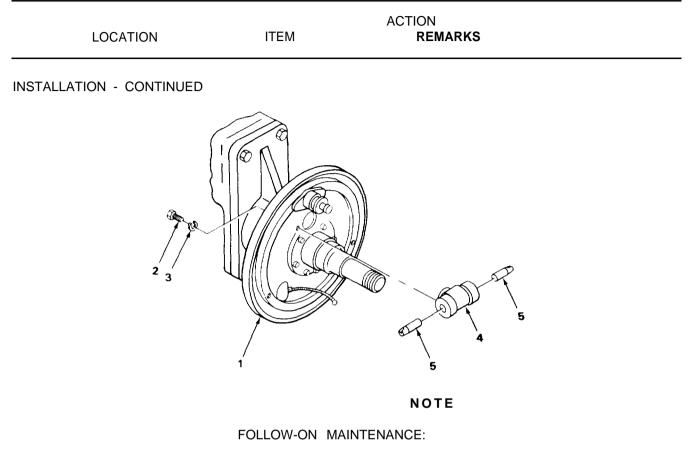
REMOVAL

NOTE

This procedure is typical for all four brake assemblies.

| 1 Backing plate (1) | Two screws (2) and two washers (3) | Remove using a 9/16-inch wrench. |
|----------------------|------------------------------------|---|
| 2 | Wheel cylinder (4) | Remove from backing plate (1). |
| 3 Wheel cylinder (4) | Two links (5) | Pull out of wheel cylinder (4). |
| INSTALLATION | | |
| 4 Backing plate (1) | Two links (5) | Push into wheel cylinder (4). |
| 5 | Wheel cylinder (4) | Position on backing plate (1). |
| 6 | Two screws (2) and two washers (3) | Secure wheel cylinder (4) using a 9/16-inch wrench. |

WHEEL CYLINDER - CONTINUED



1. Assemble service brake (page 4-96).

2. Bleed brakes (page 4-104).

TASK ENDS HERE

AIR BRAKE SYSTEM

This task covers:

- a. Intervehicular hose removal (page 4-120)
- b. Relay valve removal (page 4-122)
- c. Air reservoir removal (page 4-123)
- d. Draincock removal (page 4-124)
- e. Brake chamber tee removal (page 4-124)
- f. Brake chamber removal (page 4-125)
- g. Brake chamber installation (page 4-126)
- h. Brake chamber tee installation
 - (page 4-1 28)

- i. Draincock installation (page 4-128) j. Air reservoir installation
- (page 4-129)
- k. Relay valve installation (page 4-129)
- I. Intervehicular hose installation (page 4-131)

INITIAL SETUP

Tools

9/16-inch wrench (two required) 5/8-inch wrench I-inch wrench (two required) 1 1/8-inch wrench 1/2-inch wrench (two required) Tools - Continued

3/4-inch wrench 7/8-inch wrench 7/16-inch wrench 13/16-inch wrench

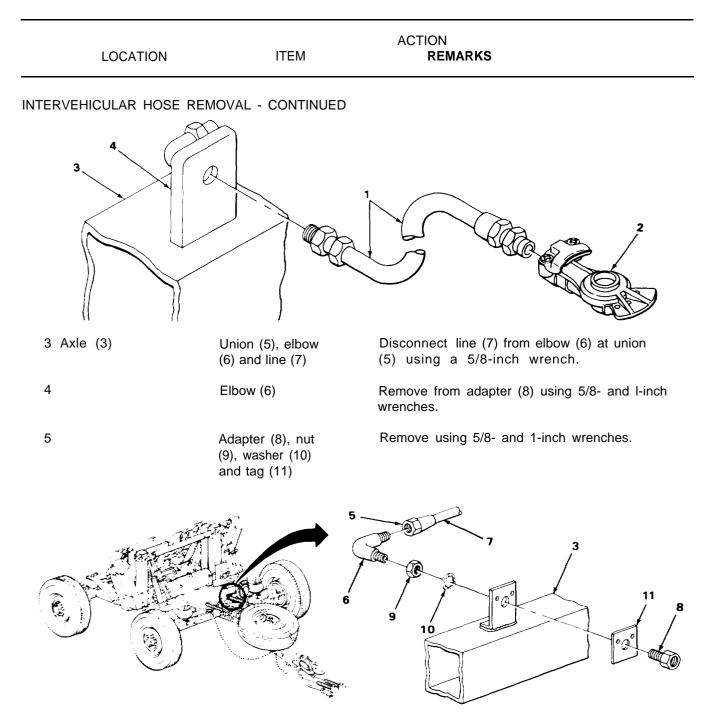
| | | ACTION | |
|----------|------|---------|--|
| LOCATION | ITEM | REMARKS | |

INTERVEHICUIAR HOSE REMOVAL

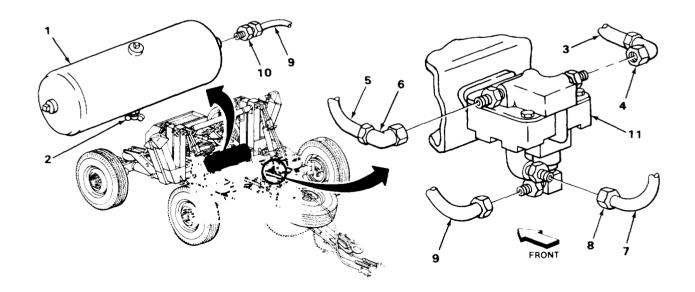
ΝΟΤΕ

This procedure is typical for the service or the emergency intervehicular hoses.

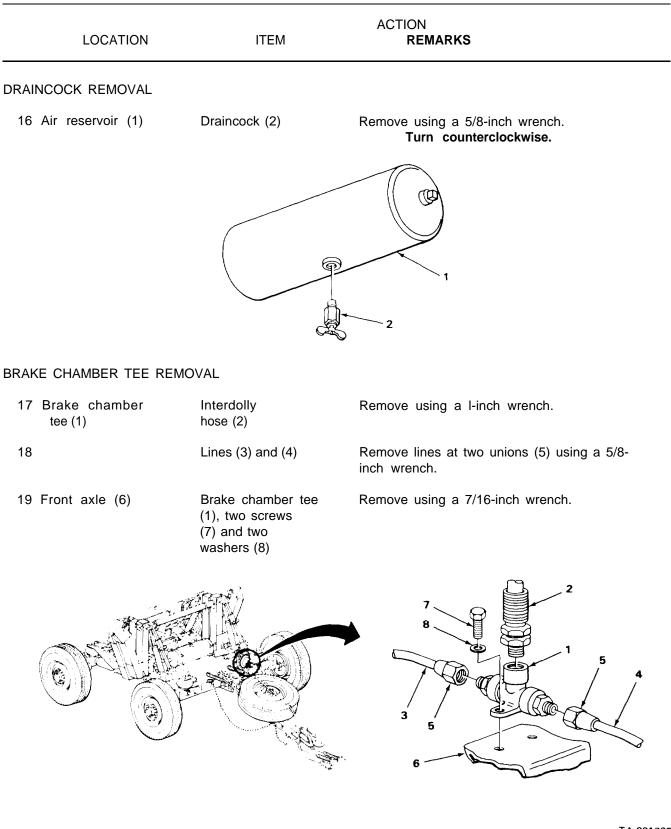
| 1 Hose (1) | Gladhand coupling (2) | Remove using 1- and 1 1/8-inch wrenches. |
|------------|--------------------------|--|
| 2 Axle (3) | Hose (1) | Remove from adapter (4) using two 1-inch wrenches. |



| | LOCATION | ITEM | ACTION REMARKS |
|------|--------------------------------------|---------------|---|
| RELA | Y VALVE REMOVAL | | |
| | | | WARNING |
| | | Wear goggles | s when releasing air from air reservoir. |
| 6 | Air reservoir (1) - | Draincock (2) | Open slowly. Leave draincock (2) open and allow all pressure to escape. |
| 7 | Intervehicular emergency line (3) | Union (4) | Disconnect union (4) using a 5/8-inch wrench. |
| 8 | Intervehicular service line (5) | Union (6) | Disconnect union (6) using a 5/8-inch wrench. |
| 9 | Brake chamber line (7) | Union (8) | Disconnect union (8) using a 5/8-inch wrench. |
| 10 | Air reservoir (1) | Hose (9) | Disconnect at union (10) using 3/4- and 7/8- inch wrenches. Hold with 3/4-inch wrench and unscrew fitting using 7/8-inch wrench. |
| 11 | Relay valve (11) | Hose (9) | Disconnect using a 7/8-inch wrench. |



ACTION REMARKS LOCATION ITEM **RELAY VALVE REMOVAL - CONTINUED** 12 Axle beam (1) Relay valve (2), Remove using a 1/2-inch wrench. three screws (3) and three washers (4) 4 (3 PLACES) 3 (3 PLACES) Ø 2 AIR RESERVOIR REMOVAL 13 Reservoir Two screws (2), Remove using two 9/16-inch wrenches. brackets (1) two nuts (3) and two washers (4) 14 Two top reservoir Remove using two 9/16-inch wrenches. brackets (1), two screws (5), two nuts (6) and two washers (7) 15 Bottom reservoir Reservoir (8) Lift out and remove. brackets (1) 2 e TA 221727

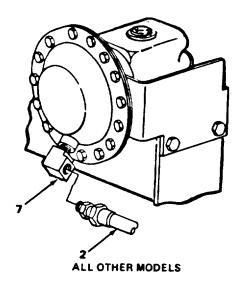


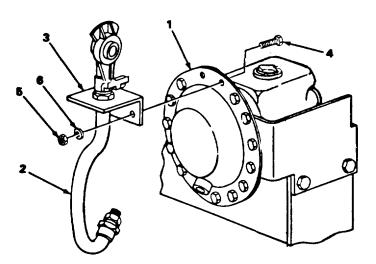
| LOCATION | ITEM | ACTION REMARKS | |
|------------------------------|--|--|----|
| BRAKE CHAMBER REMOV | AL | | |
| | | NOTE | |
| | This Is a typica systems. | I procedure for the front and rear brake | |
| | Steps 20 and 2 | 1 apply to late model, rear brake system only. | |
| 20 Rear brake chamber (1) | Hose (2) | Remove using 13/16- and 3/4-inch wrenches | 5. |
| 21 | Bracket (3), two screws (4), two nuts (5) and two washers (6) | Remove using two 1/2-inch wrenches. | |
| | | NOTE | |

Step 22 applies to all other models.

22 Brake chamber (1) Line (2)

Remove at union (7) using a W-Inch wrench.

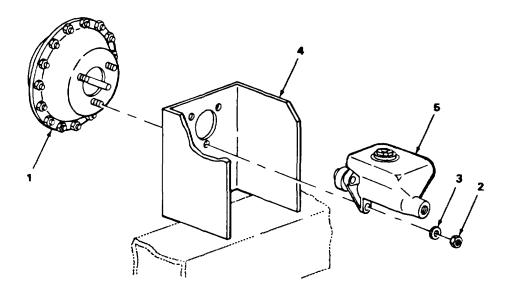




LATE MODELS (REAR)

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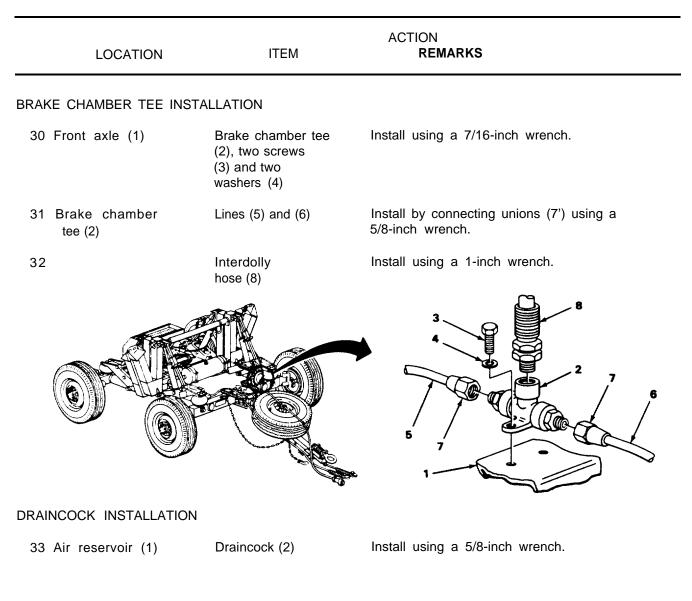
| LOCATION | ITEM | ACTION REMARKS | | |
|-----------------------------------|--------------------------------------|---|--|--|
| BRAKE CHAMBER REMOVAL - CONTINUED | | | | |
| | | CAUTION | | |
| | • | some means of supporting the master oving the brake chamber. | | |
| 23 Brake chamber (1) | Three nuts (2) and three washers (3) | Remove using a 9/16-inch wrench. | | |
| 24 Bracket (4) | Brake chamber (1) | Carefully slide the brake chamber (1) from the bracket (4) and the master cylinder (5). | | |
| BRAKE CHAMBER INSTALLATION | | | | |
| 25 Bracket (4) | Brake chamber (1) | Carefully slide the brake chamber (1) into the bracket (4) and the master cylinder (5). | | |
| 26 Brake chamber (1) | Three nuts (2) and three washers (3) | Secure brake chamber (1) with nuts (2) using a 9/16-inch wrench. | | |

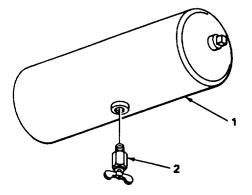


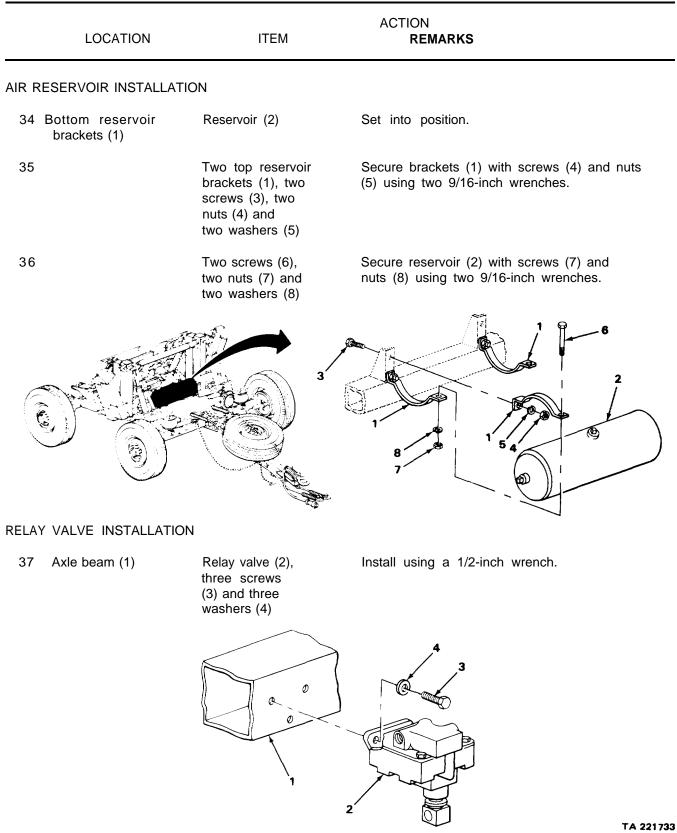
| LOCATION | ITEM | ACTION REMARKS |
|----------------------|--|---|
| RAKE CHAMBER INSTALL | ATION - CONTINUED | |
| | | ΝΟΤΕ |
| | Steps 27 and 2 | 28 apply to late model, rear brake system only. |
| 27 Brake chamber (1) | Bracket (2), two screws (3), two nuts (4) and two washers (5) | Install using two 1/2-inch wrenches. |
| 28 | Hose (6) | Install using 13/18- and 3/4-inch wrenches. |
| | | NOTE |
| | Step | 29 applies to all other applications. |
| 29 Brake chamber (1) | Line (7) | Install by connecting union (8). |

7 ALL OTHER MODELS

LATE MODELS (REAR)



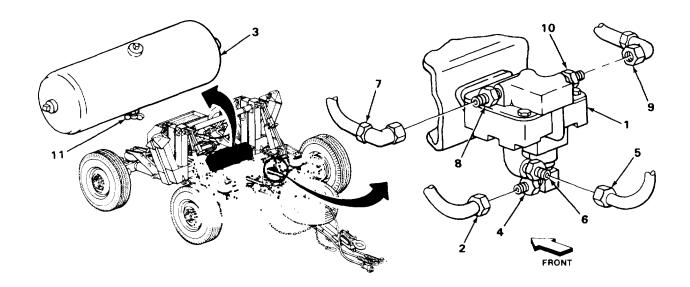




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| LOCATION | ITEM | ACTION REMARKS | | |
|---|----------------|--|--|--|
| RELAY VALVE INSTALLATION - CONTINUED | | | | |
| 38 Relay valve (1) | Hose (2) | Connect using a 7/8-inch wrench. | | |
| 39 Air reservoir (3) | Hose (2) | Connect at union (4) using 3/4- and 7/8-inch wrenches. Hold with 3/4-inch wrench and connect using a 7/8-inch wrench. | | |
| 40 Brake chamber line (5) | Union (6) | Connect using a 5/8-inch wrench. | | |
| 41 Intervehicular service line (7) | Union (8) | Connect using a 5/8-inch wrench. | | |
| 42 Intervehicular emergency line (9) | Union (10) | Connect using a 5/8-inch wrench. | | |
| 43 Air reservoir (3) | Draincock (11) | Close. | | |



| LOCATION | ITEM | ACTION REMARKS |
|-------------------------|--|---|
| INTERVEHICUIAR HOSE INS | TALLATION | |
| 44 Axle (1) | Adapter (2), nut (3), washer (4) and tag (5) | Install using 5/8- and 1-inch wrenches. |
| 45 | Elbow (6) | Install using 5/8- and 1-inch wrenches. |
| 46 | Union (7), elbow (6) and line (8) | Connect line (8) to elbow (6) at union (7) using a 5/8-inch wrench. |
| | e e | |
| 47 Axle (1) | Hose (2) | Install on adapter (3) using two l-inch wrenches. |
| 48 Hose (2) | Gladhand coupling (4) | Install using 1- and 1 1/8-inch wrenches. |
| TASK ENDS HERE | | |

TA 221735

Section X HUB AND BRAKE DRUM MAINTENANCE

| | | Page | | | |
|--|------------------------------------|---|--|--|--|
| Hub and Brake Drum | | | | | |
| HUB AND BRAKE DRUM | HUB AND BRAKE DRUM | | | | |
| This task covers: | | | | | |
| a. Hub and brake drum removal (page 4-132) b. Wheel bearing removal (page 4-134) c. Wheel bearing installation (page 4-134) | | d. Hub and brake drum installation (page 4-135) e. Wheel bearing adjustment (page 4-136) | | | |
| INITIAL SETUP | | | | | |
| Tools | | Materials/Parts - Continued | | | |
| Hammer Drift Wheel bearing socket Socket wrench, ratchet handle, 1/2-inch drive 9/16-inch by 1/2-inch drive socket Materials/Parts | | New inner bearing cone New outer bearing cone Equipment Condition Wheel and tire removed (page 3-6). Air removed from brake system. | | | |
| New axle cover gasket New grease retainer | | References TM 9-214, Care and Maintenance of Anti-friction Bearings. | | | |
| LOCATION | ITEM | ACTION REMARKS | | | |
| HUB AND BRAKE DRUM I | REMOVAL | | | | |
| 1 Hub and brake drum (1) | Six screws (2) and six washers (3) | Take off using a 9/16-inch socket wrench. | | | |
| 2 | Hub cover (4) and gasket (5) | Take off. Discard gasket (5). | | | |
| 3 | Lockwasher (6) | Using a hammer and drift, bend back lock- washer to release locknut (7). | | | |
| 4 Spindle (8) | Locknut (7) | Take off using a wheel bearing socket. | | | |
| 5 | Lockwasher (6) | Take off. | | | |

| LOCATION | ITEM | ACTION REMARKS |
|-----------------------|--------------------------------------|------------------------------------|
| HUB AND BRAKE DRUM RE | MOVAL - CONTINUED | |
| 6 Spindle (8) | Adjusting nut (9) | Remove using wheel bearing socket. |
| 7 Hub and drum (1) | Bearing cone (10) and washer (11) | Remove. |
| 8 Spindle (8) | Hub and drum (1) | Slide off. |
| | 8 | |

CO O O

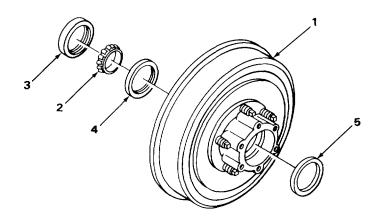
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16

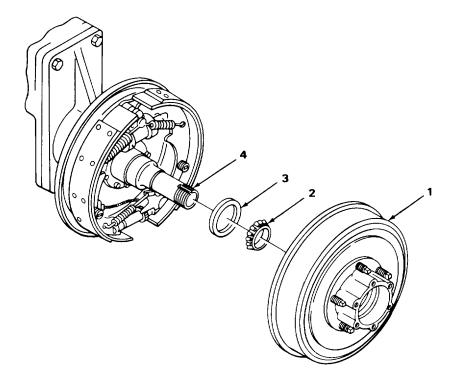
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3

| LOCATION | ITEM | ACTION REMARKS |
|------------------------|---|---|
| WHEEL BEARING REMOVAL | - | |
| 9 Hub and drum (1) | Inner bearing cone and roller (2) and inner bearing seal (3) | Take out using a hammer and drift, Discard inner grease seal. |
| | | NOTE |
| | Do not perform s being installed. | steps 10 and 11 unless new bearing cups are |
| 10 | Inner bearing cup (4) | Remove using a hammer and drift. |
| 11 | Outer bearing cup (5) | Remove using a hammer and drift. |
| WHEEL BEARING INSTALLA | TION | |
| 12 Hub and drum (1) | New inner bearing cup (4) | Install using a hammer and drift. |
| 13 | New outer bearing cup (5) | Install using a hammer and drift. |



| LOCATION | ITEM | ACTION REMARKS | | |
|------------------------|---------------------------------|---|--|--|
| HUB AND BRAKE DRUM INS | HUB AND BRAKE DRUM INSTALLATION | | | |
| 14 Hub and drum (1) | Inner and outer bearings | Clean parts and repack bearings. Refer to TM 9-214, Care and Maintenance of Anti-friction Bearings. | | |
| 15 | Inner bearing cone (2) | Place into hub. | | |
| 16 | New inner bearing seal (3) | Using a hammer and drift, tap into rear of hub and drum (1). | | |
| 17 Spindle (4) | Hub and drum assembly (1) | Slide on. | | |



| LOCATION | ITEM | ACTION REMARKS |
|---------------------|------------------------|---|
| HUB AND BRAKE DRUM | INSTALLATION - CONTINU | ED |
| 18 spindle (1) | Outer bearing cone (2) | Put onto spindle. |
| 19 | Bearing washer (3) | Put onto spindle. |
| 20 | Adjusting nut (4) | Put onto spindle using wheel bearing socket Do not tighten. |
| | | |
| WHEEL BEARING ADJUS | STMENT | |
| 21 Spindle (1) | Adjusting nut (2) | Using wheel bearing wrench, adjust the bearings. a. Tighten the adjusting nut (2) until wheel drags slightly. b. Back the nut off until the wheel spins |

b. Back the nut off until the wheel spins free and there is no looseness felt when the wheel is rocked.

22 Spindle (1) Lockwasher (3) Slide on.

| LOCATION | ITEM | ACTION REMARKS |
|-----------------------|--|---|
| WHEEL BEARING ADJUSTN | ENT - CONTINUED | |
| 23 | Locknut (4) | Install locknut (4) on the spindle (1) using a wheel bearing wrench. |
| 24 | Lockwasher (3) | Using a hammer and drift, bend lockwasher (3) edges over locknut (4). |
| 25 Hub and drum (5) | Six screws (6), six washers (7), hub cover (8) and new gasket (9) | Using a 9/16-inch socket wrench, install parts. |
| | 1 | 5 2 3 4 9 8 0 0 0 0 0 0 0 0 0 0 0 0 0 |

FOLLOW-ON MAINTENANCE:

- Adjust service brake (page 4-96).
 Install wheel and tire (page 3-6).

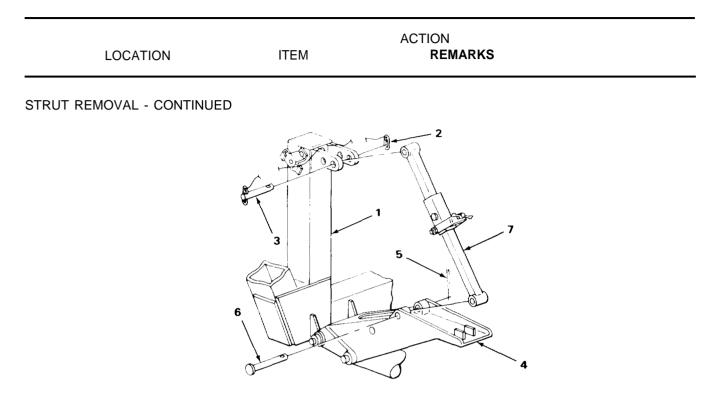
Section XI FRAME AND TOWING ATTACHMENT MAINTENANCE

| | Page | Page | |
|--------|-------|---|--|
| Pintle | 4-146 | Safety Chains 4-148 Towbar 4-143 Towbar Uplatch 4-147 | |

ROCKER ARMS AND STRUTS

This task covers:

| a. Strut removal (page 4-138) b. Disassembly of strut (page 4-139) c. Rocker arm removal (page 4-140) | | d. Rocker arm installation (page 4-140) e. Assembly of strut (page 4-142) f. Strut installation (page 4-142) | | |
|---|-------------------------------|---|--|--|
| INITIAL SETUP | | | | |
| Tools | | Materials/Parts | | |
| Diagonal cutting pliers | | Cotter pins (as required) | | |
| Hand hammer Pin punch | | Equipment Condition | | |
| 9/16-inch wrench (two required) Cross-tip screwdriver Flat-tip screwdriver | | Air mount removed (page 4-150). Shock absorber removed (page 4-152). Air mount bumper removed (page 4-151). | | |
| LOCATION | ITEM | ACTION REMARKS | | |
| STRUT REMOVAL | | | | |
| 1 Frame adapter (1) | Lockpin (2) and pin (3) | a. Pull out lockpin (2). b. Remove pin (3). | | |
| 2 Rocker arm (4) | Cotter pin (5) and pin (6) | a. Remove cotter pin (5) using diagonal cutting pliers. Throw away cotter pin. b. Remove pin (6). | | |
| 3 | Strut (7) | Remove. | | |



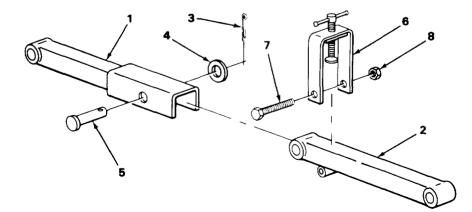
DISASSEMBLY OF STRUT

4 Upper strut (1) to lower strut (2) Cotter pin (3), washer (4) and pin (5)

5 Lower strut (2)

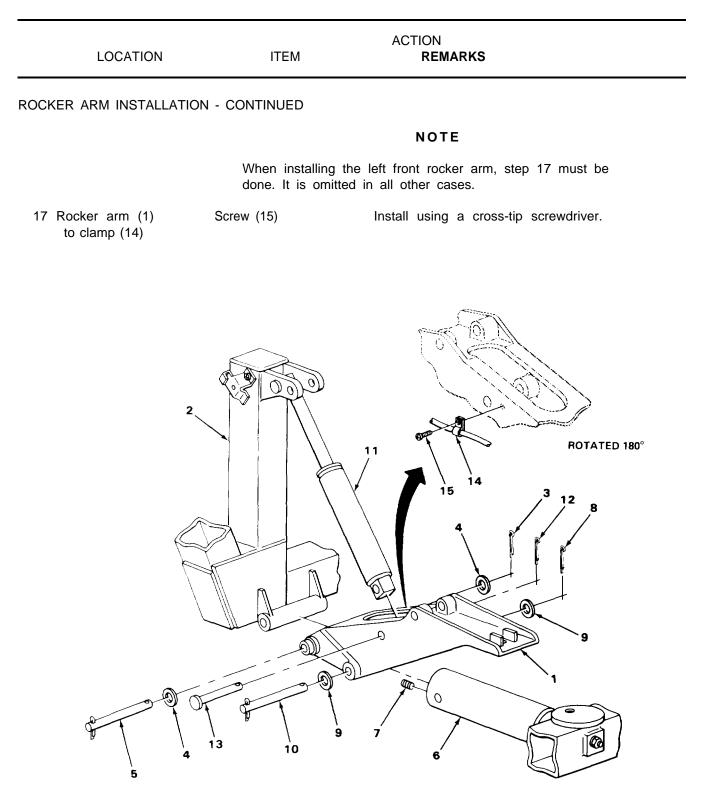
Clamp (6), screw (7) and nut (8)

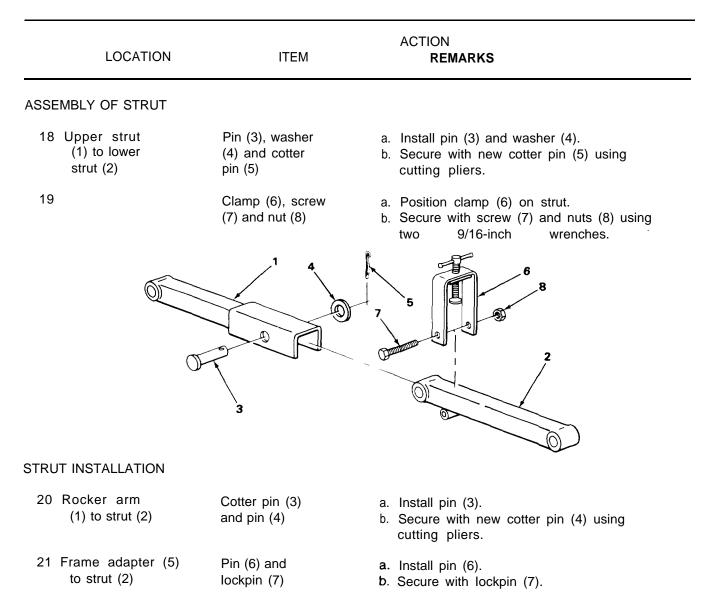
- a. Remove cotter pin (3) using diagonal cutting pliers.
- b. Remove washer (4) and pin (5).
- a. Remove screw (7) and nut (8) using two 9/16-inch wrenches.
- b. Remove clamp (6).



TA 221741

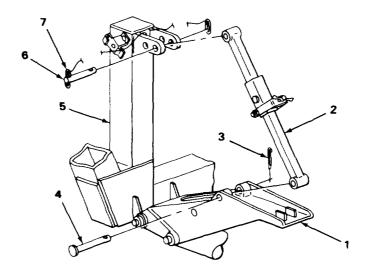
| | LOCATION | ITEM | ACTION REMARKS |
|------|---|--|---|
| ROCK | KER ARM REMOVAL | | |
| 6 | Rocker arm (1) to frame adapter (2) | Cotter pin (3), two washers (4) and pin (5) | a. Remove cotter pin (3). b. Remove two washers (4) and pin (5). |
| 7 | Axle arm (6) | Screw (7) | Remove using a flat-tip screwdriver, |
| 8 | Rocker arm (1) to axle arm (6) | Cotter pin (8), two washers (9) and pin (10) | a. Remove cotter pin (8). b. Remove two washers (9) and pin (10). |
| 9 | Rocker arm (1) to hydraulic cylinder (11) | Cotter pin (12) and pin (13) | a. Remove cotter pin (12) using cutting pliers. b. Remove pin (13). Throw away cotter pins. |
| | | | NOTE |
| | | When removing the done. It is omitted i | left front rocker arm, step 10 must be in all other cases. |
| 10 | Rocker arm (1) to clamp (14) | Screw (15) | Remove using a cross-tip screwdriver. |
| 11 | | Rocker arm (1) | Remove from dolly set. |
| ROC | KER ARM INSTALLATION | | |
| 12 | | Rocker arm (1) | Position on the dolly set. |
| 13 | Rocker arm (1) to hydraulic cylinder (11) | Cotter pin (12) and pin (13) | a. Install pin (13).b. Secure with new cotter pin (12) using cutting pliers. |
| 14 | Axle arm (6) | Screw (7) | Install using flat-tip screwdriver. |
| 15 | Rocker arm (1) to axle arm (6) | Cotter pin (8), two washers (9) and pin (10) | a. Install pin (10) and two washers (9). b. Install cotter pin (8). |
| 16 | Rocker arm (1) to frame adapter (2) | Cotter pin (3), two washers (4) and pin (5) | a. Install pin (5) and two washers (4). b. Install cotter pin (3). |







STRUT INSTALLATION - CONTINUED





FOLLOW-ON MAINTENANCE:

- 1. Install air mount (page 4-150).
- 2. Install shock absorber (page 4-152).
- 3. Install air mount bumper (page 4-151).

TASK ENDS HERE

TOWBAR

This task covers:

- a. Disassembly (page 4-144)
- b. Assembly (page 4-144)

INITIAL SETUP

Tools

Socket, 3/4-inch by 1/2-inch drive Ratchet handle, 1/2-inch drive Pliers 2 1/4-inch box wrench Materials/Parts

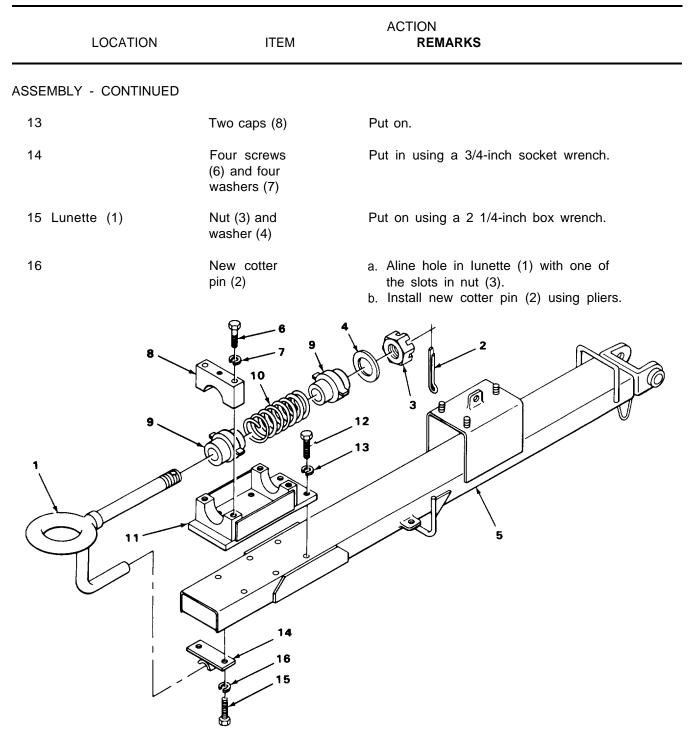
Cotter pin

Equipment Condition

Towbar removed (page 2-22).

TOWBAR - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|---------------|--|--|
| DISASSEMBLY | | |
| 1 Lunette (1) | Cotter pin (2) | Take out using pliers. Get rid of cotter pin (2). |
| 2 | Nut (3) and washer (4) | Remove using a 2 1/4-inch box wrench. |
| 3 Towbar (5) | Four screws (6) and four washers (7) | Take out using a 3/4-inch socket wrench. |
| 4 | Two caps (8) | Lift off. |
| 5 | Lunette (1) | Take out. |
| 6 | Two guides (9) and spring (10) | Take out. |
| 7 | Block (1 1), six screws (12) and six washers (13) | Remove using a 3/4-inch socket wrench. |
| 8 | Guide (14), two screws (15) and two washers (16) | Remove using a 3/4-inch socket wrench. |
| ASSEMBLY | | |
| 9 Towbar (5) | Guide (14), two screws (15) and two washers (16) | Install using a 3/4-inch socket wrench, |
| 10 | Block (1 1), six screws (12) and six washers (13) | Install using a 3/4-inch socket wrench. |
| 11 Towbar (5) | Two guides (9) and spring (10) | Put into position. |
| 12 | Lunette (1) | Put in. |



TOWBAR - CONTINUED



FOLLOW-ON MAINTENANCE: Install towbar (page 2-26).

TASK ENDS HERE

TA 221745

PINTLE

This task covers:

- a. Removal
- b. Installation

INITIAL SETUP

Tools

3/4-inch wrench

| LOCATION | ITEM | ACTION REMARKS | |
|----------------------|--|----------------------------------|--|
| REMOVAL | | | |
| 1 Rear axle beam (1) | Pintle (2), four screws (3) and four washers (4) | Remove using a 3/4-inch wrench. | |
| INSTALLATION | | | |
| 2 Rear axle beam (1) | Pintle (2), four screws (3) and four washers (4) | Install using a 3/4-inch wrench. | |
| | | | |

TASK ENDS HERE

TOWBAR UPLATCH

This task covers:

- a. Removal
- b. Installation

INITIAL SETUP

Tools

3/4-inch wrench (two required)

| LOCATION | ITEM | ACTION REMARKS |
|--|---|---|
| REMOVAL | | |
| 1 Steering arm (1) | Screw (2), nut (3) and spring (4) | Remove using two 3/4-inch wrenches. |
| 2 | Latch (5) | Take off. |
| INSTALLATION | | |
| 3 Steering arm (1) | Latch (5) | Put into position. |
| 4 | Screw (2) and spring (4) | Slide through steering arm (1) and latch (5). |
| 5 | Nut (3) | Install using a 3/4-inch wrench. |
| 5 Nut (3) Install using a 3/4-inch wrench. | | |

TASK ENDS HERE

TA 221747

SAFETY CHAINS

This task covers:

- a. Removal
- b. Installation

| INITIAL SETUP | | |
|---|---------------------------|---|
| Tools | | Materials/Parts |
| Hacksaw Electric welder Pliers | | New connector link |
| LOCATION | ITEM | ACTION REMARKS |
| REMOVAL | | |
| 1 Attaching eye (1) | Safety chain (2) | Cut link (3) using a hacksaw. Throw away link (3). |
| INSTALLATION | | |
| 2 Attaching eye (1) to safety chain (2) | New connector link (3) | Position parts and close connector link (3) using pliers. |
| 3 | New connector link (3) | Weld ends together using electric welder. |
| | | |

TASK ENDS HERE

LIFTING EYE

This task covers:

- a. Removal
- b. Installation

INITIAL SETUP

Tools

9/16-inch wrench

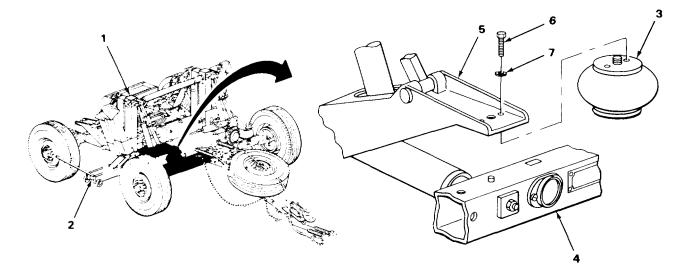
| LOCATION | ITEM | ACTION REMARKS |
|---------------------------------------|------------------------------------|-----------------------------------|
| REMOVAL | | |
| 1 Axle beam (1) to lifting eye (2) | Two screws (3) and two washers (4) | Remove using a 9/16-inch wrench. |
| 2 Axle beam (1) | Lifting eye (2) | Remove. |
| INSTALLATION | | |
| 3 Axle beam (1) | Lifting eye (2) | Place in position. |
| 4 Axle beam (1) to lifting eye (2) | Two screws (3) and two washers (4) | Install using a 9/16-inch wrench. |
| | | |

Section XII SUSPENSION SYSTEM MAINTENANCE

| | Page | Page | |
|--|------------------------------------|---|--|
| Air Mount | | | |
| AIR MOUNT | | | |
| This task covers: | | | |
| a. Removal (page 4-150) b. Installation (page 4-150 |)) | | |
| INITIAL SETUP | | | |
| Tools | | | |
| 9/16-inch wrench 1 1/2-ton floor type jack | | | |
| LOCATION | ITEM | ACTION REMARKS | |
| REMOVAL | | | |
| 1 Frame adapter (1) | Jack (2) | Raise dolly set so that base of air mount (3) clears the axle beam (4). | |
| 2 Air mount (3) to rocker arm (5) | Two screws (6) and two washers (7) | Remove using a 9/16-inch wrench. | |
| 3 | Air mount (3) | Remove from between rocker arm (5) and axle beam (4). | |
| INSTALLATION | | | |
| 4 Rocker arm (5) | Air mount (3) | Place in position. | |
| 5 Rocker arm (5) to air mount (3) | Two screws (6) and two washers (7) | Install using a 9/16-inch wrench. | |
| 6 Frame adapter (1) | Jack (2) | Lower and remove. | |

AIR MOUNT - CONTINUED

INSTALLATION - CONTINUED



TASK ENDS HERE

AIR MOUNT BUMPER

This task covers:

- a. Removal (page 4-152)
- b. Installation (page 4-152)

INITIAL SETUP

Tools

9/16-inch wrench

AIR MOUNT BUMPER - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|--|--|-----------------------------------|
| REMOVAL | | |
| 1 Air mount bumper (1) to rocker arm (2) | Nut (3), washer (4) and washer (5) | Remove using a 9/16-inch wrench, |
| 2 Rocker arm (2) | Air mount bumper (1) | Remove. |
| INSTALLATION | | |
| 3 Rocker arm (2) | Air mount bumper (1) | Place in position. |
| 4 Air mount bumper (1) to rocker arm (2) | Nut (3), washer (4) and washer (5) | Install using a 9/16-inch wrench. |
| | | (4 PLACES) |
| | | |
| ASK ENDS HERE | | |

- a. Removal (page 4-153)
- b. Installation (page 4-153)

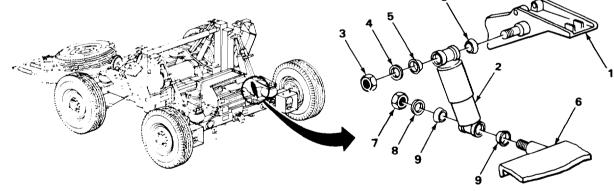
INITIAL SETUP

Tools

3/4-inch wrench

| LOCATION | ITEM | ACTION REMARKS |
|--|---|----------------------------------|
| EMOVAL | | |
| 1 Rocker arm (1) to shock absorber (2) | Nut (3), washer (4) and two washers (5) | Remove using a 3/4-inch wrench. |
| 2 Axle beam (6) to shock absorber (2) | Nut (7), washer (8) and two washers (9) | Remove using a 3/4-inch wrench. |
| 3 Rocker arm (1) and axle beam (6) | Shock absorber (2) | Remove. |
| TALLATION | | |
| 4 Rocker arm (1) and axle beam (6) | Shock absorber (2) | Install. |
| 5 Axle beam (6) to shock absorber (2) | Nut (7), washer (8) and two washers (9) | Install using a 3/4-inch wrench. |
| 6 Rocker arm (1) to shock absorber (2) | Nut (3), washer (4) and two washers (5) | Install using a 3/4-inch wrench. |
| | A CAR | 4 5 |

SHOCK ABSORBER - CONTINUED



Section XIII ACCESSORY ITEM MAINTENANCE

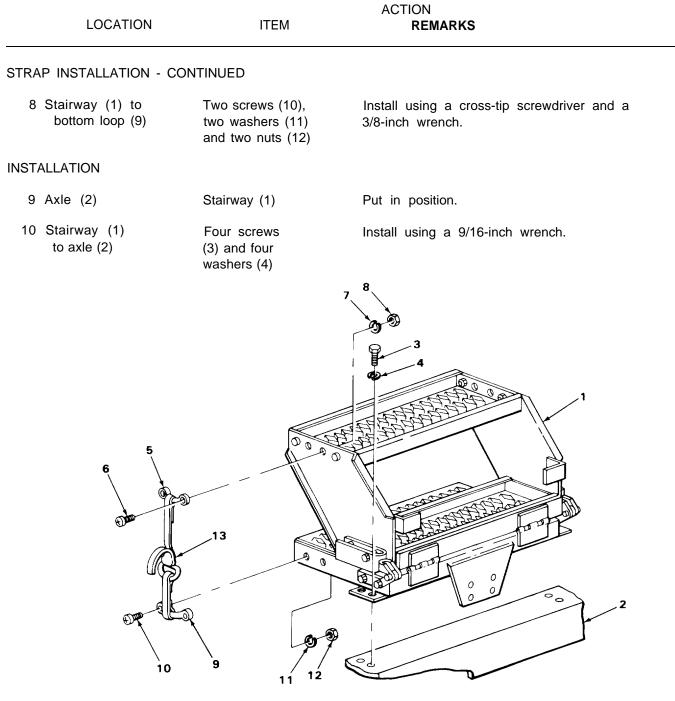
| | | Page | | Page |
|--|--|--|--|------|
| Binder Bolts4-160Data Plates4-162Folding Stairway4-156Gladhand Storage Brackets4-159 | | Intervehicular Hose Straps4Reflectors4Toolbox4 | | |
| TOOLBOX | | | | |
| This task covers: | | | | |
| a. Removal (page 4-154) b. Storage strap removal (page 4-154) | | | c. Storage strap installation (page4-155)d. installation (page 4-155) | |
| INITIAL SETUP | | | | |
| Tools | | | | |
| 9/16-inch wrench Cross-tip screwdriver 3/8-inch wrench | | | | |
| LOCATION | ITEM | | ACTION REMARKS | |
| REMOVAL | | | | |
| 1 Frame adapter(I) to toolbox (2) | Four screws (3) and four washers (4) | | Remove using a 9/16-inch wrench. Toolbox (2) will come off of frame adapter (1). | |
| STORAGE STRAP REMOVAL | | | | |
| 2 Two straps (5) to toolbox (2) | Four screws (four washers and four nuts | (7) | Remove using a cross-tip screwdriver and a 3/8-inch wrench. | |
| 3 Toolbox (2) | Two straps (5) |) | Remove. | |

ACTION REMARKS ITEM LOCATION STORAGE STRAP INSTALLATION Put in position. 4 Toolbox (2) Two straps (5) Install using a cross-tip screwdriver and Four screws (6), 5 Two straps (5) four washers (7) 3/8-inch wrench. to toolbox (2) and four nuts (8) INSTALLATION a. Position and hold toolbox (2). Four screws 6 Frame adapter (1) b. Secure with screws (3) using a 9/16-inch (3) and four to toolbox (2) wrench. washers (4)

TOOLBOX - CONTINUED

FOLDING STAIRWAY

| This task covers: | | |
|--|---|--|
| a. Removal (page 4-156) b. Strap removal (page 4-156) | | c. Strap installation (page 4-156) d. Installation (page 4-157) |
| INITIAL SETUP | | |
| Tools | | Equipment Condition |
| 9/16-inch wrench 3/8-inch wrench Cross-tip screwdriver | | Pintle removed (page 4-146). |
| LOCATION | ITEM | ACTION REMARKS |
| REMOVAL | | |
| 1 Stairway (1) to axle (2) | Four screws (3) and four washers (4) | Remove using a 9/16-inch wrench. |
| 2 Axle (2) | Stairway (1) | Remove. |
| STRAP REMOVAL | | |
| 3 Stairway (1) to top loop (5) | Two screws (6), two washers (7) and two nuts (8) | Remove using a cross-tip screwdriver and a 3/8-inch wrench. |
| 4 Stairway (1) to bottom loop (9) | Two screws (10), two washers (11) and two nuts (12) | Remove using a cross-tip screwdriver and a 3/8-inch wrench. |
| 5 Stairway (1) | Strap (13) | Remove. |
| STRAP INSTALLATION | | |
| 6 Stairway (1) | Strap (13) | Put into position. |
| 7 Stairway (1) to top loop (5) | Two screws (6), two washers (7) and two nuts (8) | Install using a cross-tip screwdriver and a 3/8-inch wrench. |



FOLDING STAIRWAY - CONTINUED

NOTE

FOLLOW-ON MAINTENANCE: Install pintle (page 4-146).

REFLECTORS

This task covers:

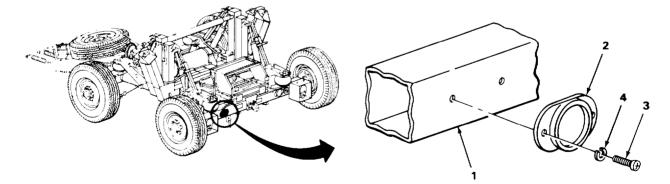
- a. Removal
- b. Installation

INITIAL SETUP

Tools

Cross-tip screwdriver

| | LOCATION | ITEM | ACTION REMARKS |
|-----------------|---------------------|--|--|
| REMOVAL | | | |
| 1 Axle refle | (1) to ector (2) | Two screws (3) and two washers (4) | Remove using a cross-tip screwdriver, |
| 2 Axle | (1) | Reflector (2) | Remove. |
| INSTALLAT | ION | | |
| 3 Axle | (1) | Reflector (2) | Put into position. |
| 4 Axle refle | (1) to actor (2) | Two screws (3) and two washers (4) | Install using a cross-tip screwdriver. |



GLADHAND STORAGE BRACKETS

This task covers:

- a. Removal
- b. Installation

INITIAL SETUP

Tools

1/2-inch wrench

| LOCATION | ITEM | ACTION REMARKS |
|---------------------------------------|-----------------------------|----------------------------------|
| REMOVAL | | |
| 1 Bracket (1) to frame adapter (2) | Screw (3) and washer (4) | Remove using a 1/2-inch wrench. |
| 2 Frame adapter (2) | Bracket (1) | Remove. |
| INSTALLATION | | |
| 3 Frame adapter (2) | Bracket (1) | Place in position. |
| 4 Bracket (1) to frame adapter (2) | Screw (3) and washer (4) | Install using a 1/2-inch wrench. |
| | | |

BINDER BOLTS

This task covers:

a. Removal

b. Installation

| INITIAL SETUP | | | |
|--|---|--|--|
| Tools | Materials/Parts | | |
| Crimping tool Diagonal cutting pliers | New swaging, 8537648-two required Wire, MILW1511A-14 inches (35.56 cm) per bolt | | |
| LOCATION | ITEM | ACTION REMARKS | |
| REMOVAL | | | |
| 1 Bolt (1) and frame adapter (2) | Wire (3) | Cut off using cutting pliers. Throw away wire (3). | |
| INSTALLATION | | | |
| 2 Bolt (1) | Wire (3) and swaging (4) | Secure wire (3) to bolt (1) with swaging (4) using crimping tool. | |
| 3 Frame adapter (2) | Wire (3) and swaging (4) | Secure wire (3) to frame adapter (2) with swaging (4) using crimping tool. | |
| | | | |
| TASK ENDS HERE | | | |

INTERVEHICULAR HOSE STRAPS

This task covers:

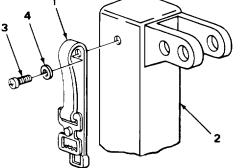
- a. Removal
- b. Installation

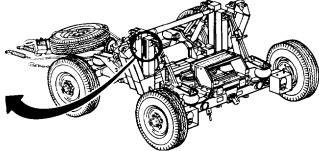
INITIAL SETUP

Tool S

Cross-tip screwdriver

| LOCATION | ITEM | ACTION REMARKS |
|-------------------------------------|--------------------------|--|
| REMOVAL | | |
| 1 Strap (1) to frame adapter (2) | Screw (3) and washer (4) | Remove using a cross-tip screwdriver. |
| 2 Frame adapter (2) | Strap (1) | Remove. |
| INSTALLATION | | |
| 3 Frame adapter (2) | Strap (1) | Put in position. |
| 4 Strap (1) to frame adapter (2) | Screw (3) and washer (4) | Install using a cross-tip screwdriver. |
| 4 | | |





TASK ENDS HERE

TA 221758

DATA PLATES

This task covers:

- a. Removal
- b. Installation

INITIAL SETUP

Tools

Cross-tip screwdriver

| | | ACTION | |
|----------|------|---------|--|
| LOCATION | ITEM | REMARKS | |

REMOVAL

NOTE

This procedure is typical for all data plates on the equipment. The amount of retaining screws will vary between data plates.

| 1 Data plate (1) | Screws (2) | Remove using a cross-tip screwdriver. |
|------------------|----------------|--|
| 2 | Data plate (1) | Remove. |
| INSTALLATION | | |
| 3 | Data plate (1) | Put in position. |
| 4 Data plate (1) | Screws (2) | Install using a cross-tip screwdriver. |
| | | |

| | Page | Page |
|---|----------------|--|
| Lift Cylinders | 4-166 4-163 | System Bleeding |
| PUMP | | |
| This task covers: | | |
| a. Servicing (page 4-163) b. Removal (page 4-164) c. installation (page 4-164) | | |
| INITIAL SETUP | | |
| Tools | | Tools - Continued |
| 5/8-inch open end wrench (two required) 1/2-inch box wrench Socket, 1/2-inch by 1/2-inch drive | | 1/2-inch drive ratchet handle 9/16-inch open end wrench |

| LOCATION | ITEM | ACTION REMARKS |
|----------------------|----------------|---|
| SERVICING | | |
| 1 Hydraulic pump (1) | Filler cap (2) | Take off using 5/8-inch open end wrench. |
| 2 | Reservoir (3) | Look into reservoir. Make sure oil level is at least 1/2 inch (1.27 cm) from the top. Add oil if necessary. (See page 4.2.) |
| 3 | Filler cap (2) | Put on using a 5/8-inch open end wrench. |
| | | TYPICAL LA 221760 |

Section XIV HYDRAULIC LIFT SYSTEM MAINTENANCE

4-163

TA 221760

PUMP - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|--|---|---|
| REMOVAL | | |
| | | NOTE |
| | This is a typica | al procedure for the front or the rear system. |
| 4 Hydraulic pump (1) | Line (2) | Take off by holding fitting (3) using a 5/8-inch open end wrench and unscrewing nut (4) using another 5/8-inch open end wrench. |
| 5 | Hose (5) | Take off by holding fitting (6) using a 9/16-inch open end wrench and unscrewing nut (7) using a 5/8-inch open end wrench. |
| 6 Axle beam (8) to hydraulic pump (1) | Four screws (9), four nuts (10) and four washers (11) | Take out using a 1/2-inch box wrench and a 1/2-inch socket wrench. |
| 7 Axle beam (8) | Hydraulic pump (1) | Take off of chassis. |
| INSTALLATION | | |
| 8 Axle beam (8) | Hydraulic pump (1) | Place in position on chassis. |
| 9 Axle beam (8) to hydraulic pump (1) | Four screws (9), four nuts (10) and four washers (11) | Put in using a 1/2-inch box wrench and a 1/2-inch socket wrench. |
| 10 Hydraulic pump (1) | Line (2) | Put on by holding fitting (3) with a 5/8- inch open end wrench, and screwing on nut (4) using another 5/8-inch open end wrench. |

PUMP - CONTINUED

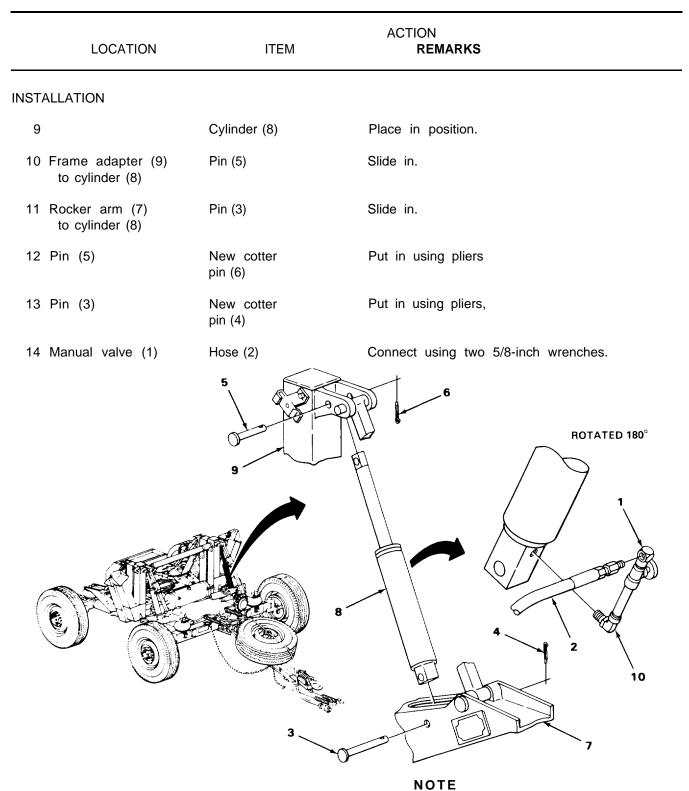
| LOCATION | ITEM | ACTION REMARKS |
|--------------------------|--------|---|
| INSTALLATION - CONTINUED | | |
| 11 Hydraulic pump (1) Ho | se (5) | Put in by holding fitting (6) with a 9/16- inch open end wrench, and screw in fitting (7) using a 5/8-inch open end wrench. |
| | | |

NOTE

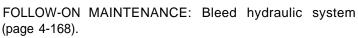
FOLLOW-ON MAINTENANCE: Bleed system (page 4-168).

LIFT CYLINDER

| This task covers: | | |
|--|----------------|--|
| a. Removal (page 4-166) b. Manual valve removal | (page 4-166) | c. Manual valve installation (page 4-166)d. Installation (page 4-167) |
| INITIAL SETUP | | |
| Tools | | Materials/Parts |
| 5/8-inch wrench (two re Diagonal cutting pliers | | New cotter pins |
| LOCATION | ITEM | ACTION REMARKS |
| REMOVAL | | |
| 1 Manual valve (1) | Hose (2) | Remove using two 5/8-inch wrenches. |
| 2 Pin (3) | Cotter pin (4) | Take out using pliers. Throw cotter pin (4) away. |
| 3 Pin (5) | Cotter pin (6) | Take out using pliers. Throw cotter pin (6) away. |
| 4 Rocker arm (7) to cylinder (8) | Pin (3) | Slide out, |
| 5 Frame adapter (9) to cylinder (8) | Pin (5) | Slide out. |
| 6 | Cylinder (8) | Take out. |
| MANUAL VALVE REMOVAL | - | |
| 7 Cylinder (8) | Elbow (1 O) | Remove with manual valve (1) attached using a 5/8-inch wrench. |
| MANUAL VALVE INSTALLA | TION | |
| 8 Cylinder (8) | Elbow (10) | install with manual valve (1) attached using a 5/8-inch wrench. Manual valve and piping should face upward in line with cylinder. |



LIFT CYLINDER - CONTINUED



TASK ENDS HERE

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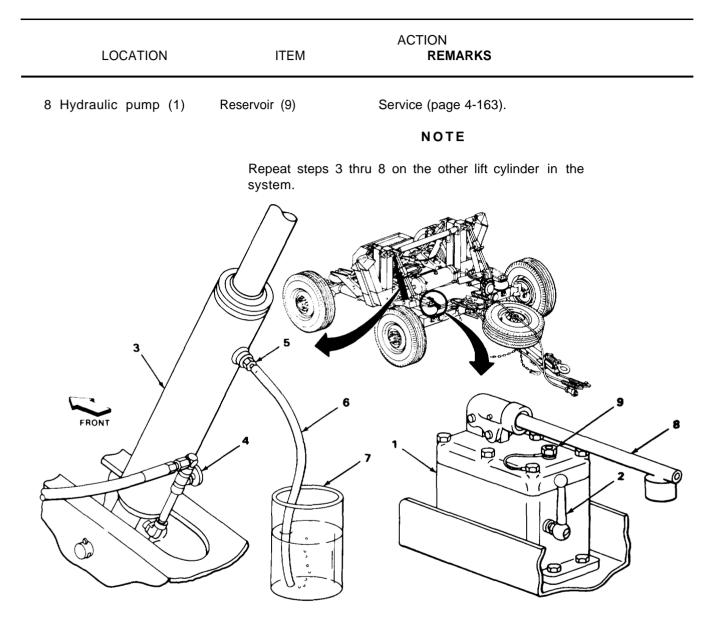
SYSTEM BLEEDING

This task covers:

Bleeding

| INITIAL SETUP | | | |
|-----------------------------|--|---|--|
| Tools | Materials/Parts | | |
| 7/16-inch wrench | | Small jar Hose, 5/16-inch I.D. by 24 inches (61 cm.) - oil resistant Oil, hydraulic type OHT | |
| LOCATION | ITEM | ACTION REMARKS | |
| | | NOTE | |
| | This procedure is ty hydraulic lift system | rpical for the front and the rear ns. | |
| | Begin the bleeding procedures with the cylinder which is furthest from the pump. | | |
| 1 Hydraulic pump (1) | Control valve (2) | Move to the RAISE position. | |
| 2 Two cylinders (3) | Two manual control valves (4) | Open. | |
| 3 Hydraulic cylinder (3) | Bleeder valve (5) | Open using a 7/16-inch box wrench. | |
| 4 Bleeder valve (5) | Length of hose (6) | Push onto the end of bleeder valve (5). | |
| 5 | Jar (7) | a. Fill halfway with oil, type OHT hydraulic.b. Submerge free end of hose (6) in oil in jar (7). | |
| 6 Hydraulic pump (1) | Handle (8) | Pump handle until bubbles stop coming from the end of hose (6) that is submerged in oil in jar. | |
| 7 Hydraulic cylinder (3) | Bleeder valve (5) | Close using a 7/16-inch box wrench. | |

SYSTEM BLEEDING - CONTINUED



TASK ENDS HERE

4-169/(4-170 blank)

CHAPTER 5

DIRECT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

OVERVIEW

This chapter contains all the maintenance authorized to be performed by direct support and general support maintenance.

Page

| Section I | Repair Parts; Special Tools; TMDE; and Support Equipment | 5-1 |
|-------------|--|------|
| Section II | Front Axle Maintenance | 5-2 |
| Section III | Brake System Maintenance | 5-6 |
| Section IV | Hub and Brake Drum Maintenance | 5-18 |
| Section V | Hydraulic Lift System Maintenance | 5-10 |
| Section VI | Serviceability Standards and Wear Limits | 5-20 |

Section I REPAIR PARTS; SPECIAL TOOLS; TMDE; AND SUPPORT EQUIPMENT

COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

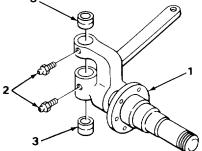
No special tools, TMDE, or support equipment are required to maintain the M720 dolly set.

REPAIR PARTS

Repair parts are listed in appendix F of this manual.

Section II FRONT AXLE MAINTENANCE

| Steering Knuckle | Page | | Page 5-4 |
|---|------------------|---|-------------|
| This task covers: | | | |
| a. Bushing removal (page 5 b. Bushing installation (pag | | | |
| INITIAL SETUP | | | |
| Tools | | Materials/Parts | |
| Arbor press Bushing driver fixture Kingpin bushing reamer | | New knuckle bushings New kingpin | |
| 5/16-inch wrench | | Equipment Condition | |
| | | Knuckle removed (page 4-69). | |
| LOCATION | ITEM | ACTION REMARKS | |
| BUSHING REMOVAL | | | |
| 1 Knuckle (1) | Two fittings (2) | Remove using a 5/16-inch wrench. | |
| 2 | Two bushings (3) | Remove using an arbor press and bushing driver fixture. | |
| | 3 | | |



STEERING KNUCKLE - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|----------------------|---|---|
| BUSHING INSTALLATION | | |
| 3 Knuckle (1) | Two bushings (2) | Install bushings using an arbor press and bushing driver fixture. Be sure that holes in bushings are alined with holes in knuckle where the grease fittings (3) go. |
| | | NOTE |
| | kingpin (4). After fitted to the king the kingpin (4) a |) supplied are somewhat smaller than the r step 3, the bushings must be reamed and gpin (4). After fitting the bushings (2) to all parts must not be interchanged but rather unizational maintenance as a matched set for the dolly set. |
| 4 | Two bushings (2) and kingpin (4) | Using a reamer, fit bushings (2) to king- pin (4). The kingpin (4) should slide freely into the bushings with no noticeable looseness from side to side. |
| 5 | Two fittings (3) | Install using a 5/16-inch wrench. |
| | 3 | |

TASK ENDS HERE

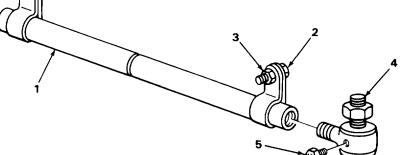
TA 221765

TIE ROD ASSEMBLY

This task covers:

- a. Socket removal (page 5-4)
- b. Socket installation (page 5-5)

INITIAL SETUP Tools Equipment Condition Tie rod assembly removed 9/16-inch wrench (two required) (page 4-74). 5/16-inch wrench ACTION LOCATION ITEM REMARKS SOCKET REMOVAL Loosen using two 9/16-inch wrenches. 1 Tie rod Screw (2) and nut (3) assembly (1) NOTE There are two sockets (4) on each tie rod assembly. One is right-hand threaded; it is removed by turning counterclockwise. The other is left-hand threaded; it is removed by turning clockwise. 2 Tie rod Remove by unscrewing in the proper direction. socket (4) Fitting (5) Remove using a 5/16-inch wrench. 3 Tie rod socket (4)



TIE ROD ASSEMBLY - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|---------------------------|--------------------------|---------------------------------------|
| SOCKET INSTALLATION | | |
| 4 Tie rod socket (1) | Fitting (2) | Install using a 5/16-inch wrench. |
| 5 Tie rod assembly (3) | Tie rod socket (1) | Install by screwing in. |
| 6 | Screw (4) and nut (5) | Tighten using two 9/16-inch wrenches. |
| | 3 | |

Section III BRAKE SYSTEM MAINTENANCE

Page

BRAKE CHAMBER

This task covers:

- a. Disassembly (page 5-6)
- b. Assembly (page 5-7)

INITIAL SETUP

Tools

1/2-inch wrench (two required)

Materials/Parts

New diaphragm Woodblocks, 2 x 4 x 6 inches (two required)

LOCATION

ITEM

ACTION REMARKS

Equipment Condition

Brake chamber removed (page 4-120).

DISASSEMBLY

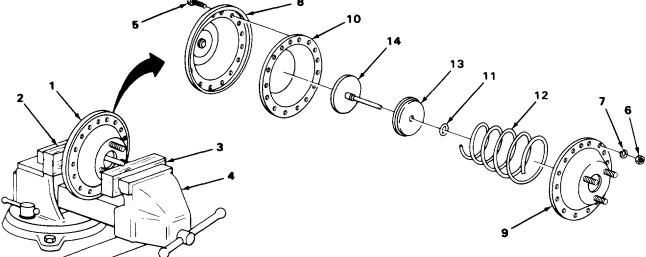
WARNING

The return spring inside the brake chamber is under very heavy tension. The two halves of the chamber must be clamped together in a vise before removing all of the screws and nuts which hold it together. Failure to do so could cause serious injury.

| 1 Brake chamber (1) | Two woodblocks (2) and (3) and vise (4) | Position brake chamber (1) in vise (4) in between two woodblocks (2) and (3). |
|---------------------|---|---|
| | Sixteen screws (5), sixteen nuts (6) and sixteen washers (7) | Remove using two 1/2-inch wrenches. |
| 3 Vise (4) | Chamber halves (8) and (9) | Slowly open the vise and separate the chamber halves (8) and (9). |

| LOCATION | ITEM | ACTION REMARKS |
|---------------------------------|--|--|
| DISASSEMBLY - CONTINUE | D | |
| 4 Chamber halves (8) and (9) | Diaphragm (10), O-ring (11), spring (12), retainer (13) and piston (14) | Remove. Throw away diaphragm (10). |
| ASSEMBLY | | |
| 5 Chamber halves (8) and (9) | New diaphragm (10), O-ring (11), spring (12), retainer (13) and piston (14) | Assemble parts. |
| 6 | Vise (4) and two woodblocks (2) and (3) | Use vise (4) to compress spring (12) bringing chamber halves (8) and (9) together. |
| 7 | Sixteen screws (5), sixteen nuts (6) and sixteen washers (7) | Install using two 1/2-inch wrenches. |
| 5 | 8 8 8 8 8 | 10 |

BRAKE CHAMBER - CONTINUED



TASK ENDS HERE

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Section IV HUB AND BRAKE DRUM MAINTENANCE

| | Page |
|--------------------|------|
| Hub and Brake Drum | 5-8 |

HUB AND BRAKE DRUM

This task covers:

- a. Disassembly (page 5-8)
- b. Assembly (page 5-8)
- c. Resurfacing (page 5-9)

INITIAL SETUP

Tools

Arbor press Stud removal and installation fixtures Inside micrometer (11 - 12 inch) Materials/Parts

New studs- five per wheel Emery cloth

Equipment Condition

Hub and drum removed (page 4-132).

LOCATION

ITEM

ACTION REMARKS

DISASSEMBLY

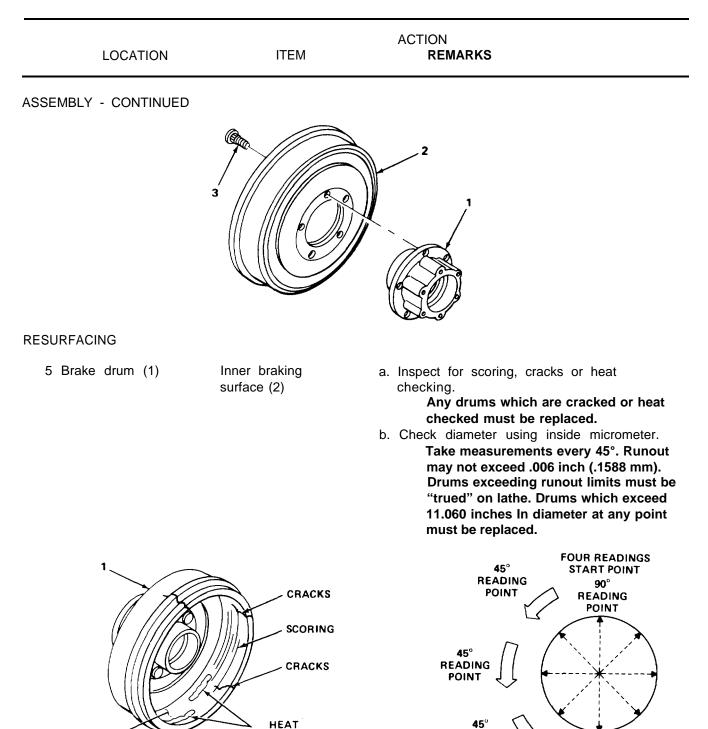
WARNING

The hub and brake drum assembly will be full of asbestos dust from the brake linings. Breathing asbestos dust is extremely hazardous. A filter mask should be worn whenever working on the hub and brake drum assembly.

| 1 Hub (1) to brake drum (2) | Five studs (3) | Remove using arbor press and stud fixtures. Throw away studs (3). |
|--------------------------------|--------------------|--|
| 2 Hub (1) | Brake drum (2) | Remove. |
| ASSEMBLY | | |
| 3 Hub (1) | Brake drum (2) | Place in position. Aline stud holes. |
| 4 Hub (1) to | Five new studs (3) | Install using arbor press and stud fixtures. |

brake drum (2)

HUB AND BRAKE DRUM - CONTINUED



CHECKING

READING

POINT

TASK ENDS HERE

2

Section V HYDRAULIC LIFT SYSTEM MAINTENANCE

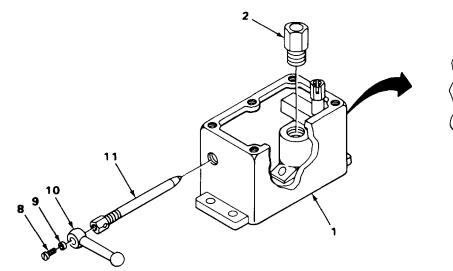
| | Page | | Page |
|---|---|---|------|
| Hydraulic Pump | 5-10 | Hydraulic Cylinder | 5-18 |
| HYDRAULIC PUMP | | | |
| This task covers: | | | |
| a. Disassembly (page 5-1 b. Assembly (page 5-14) | 0) | | |
| INITIAL SETUP | | | |
| Tools | | Materials/Parts | |
| Pliers Flat-tip screwdriver 9/16-inch box wrench 5/8-inch box wrench | | Parts Kit, KU2000 Lubricating oil, PL Equipment Condition | |
| 1/2-inch box wrench Torque wrench | | Pump removed (page 4-163). | |
| LOCATION | ITEM | ACTION REMARKS | |
| DISASSEMBLY | | | |
| 1 Beam (1) | Two clips (2) | Take off using pliers. Get rid of clips. | |
| 2 | Pin (3) | Slide out. | |
| 3 Pump cover (4) | Beam (1) and pin (5) | Take off. | |
| 4 | Piston (6) | Take out. Get rid of piston (6). | |
| 5 | Gasket (7) | Take out. Get rid of gasket (7). | |
| 6 | Plug and vent (8) | Take out using a 5/8-inch box wrench. | |
| 7 | Six screws (9), cover (4) and gasket (10) | Take off using a 9/16-inch box wrench. Get rid of gasket (10). | |

| LOCATION | ITEM | ACTION REMARKS |
|-----------------------|--|--|
| DISASSEMBLY - CONTINU | JED | |
| 8 Cover (4) | Nut (11), washer (12) and wiper (13) | Take out using a flat-tip screwdriver. Get rid of washer (12) and wiper (13). |
| | | |

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HYDRAULIC PUMP - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|----------------------|--|---|
| DISASSEMBLY - CONTIN | UED | |
| 9 Pump body (1) | Cylinder (2) | Take out using a 9/16-inch box wrench. Get rid of cylinder (2). |
| 10 | Screw (3) and packing (4) | Take out using a fiat-tip screwdriver. |
| 11 | Spring (5) and two balls (6) and (7) | Take out. Get rid of spring (5) and two balls (6) and (7). |
| 12 | Screw (8) and washer (9) | Take out using flat-tip screwdriver. |
| 13 | Lever (10) | Take off. |
| 14 | Spindle (11) | Screw out. |

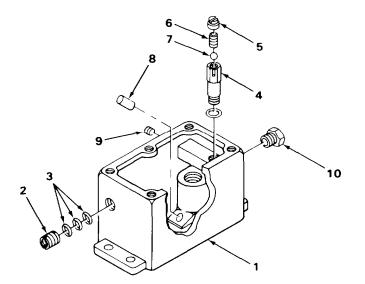


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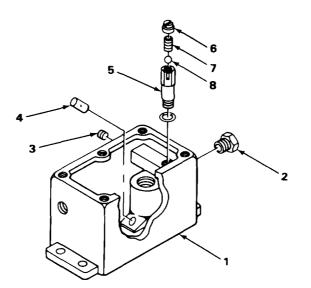
| LOCATION | ITEM | ACTION REMARKS |
|------------------------|--------------------------------------|---|
| DISASSEMBLY - CONTINUE | D | |
| 15 Pump body (1) | Nut (2) and three valve disks (3) | Take out using a flat-tip screwdriver. Get rid of three valve disks (3). |
| 16 Valve body (4) | Plug (5), spring (6) and ball (7) | Take out using a flat-tip screwdriver. |
| 17 Pump body (1) | Valve body (4) | Take out using a 1/2-inch box wrench. |
| 18 | Strainer (8) | Pull out. |
| 19 | Pipe plug (9) | Take out using a flat-tip screwdriver. |
| 20 | Pipe plug (10) | Take out using a 9/16-inch box wrench, |

HYDRAULIC PUMP - CONTINUED



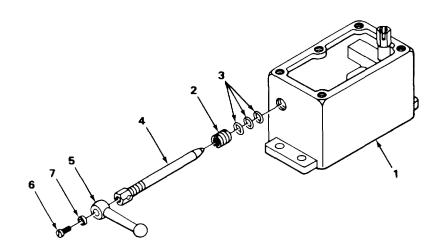
HYDRAULIC PUMP - CONTINUED

| LOCATION | ITEM | ACTION REMARKS | |
|------------------|---|--------------------------------------|--|
| ASSEMBLY | | | |
| | | NOTE | |
| | Coat all parts with PL oil before assembly. | | |
| 21 Pump body (1) | Pipe plug (2) | Put in using a 9/16-inch box wrench, | |
| 22 | Pipe plug (3) | Put in using a flat-tip screwdriver. | |
| 23 | Strainer (4) | Put into position. | |
| 24 | Valve body (5) | Put in using a 1/2-inch box wrench. | |
| 25 | Plug (6), spring (7) and ball (8) | Put in using a flat-tip screwdriver. | |



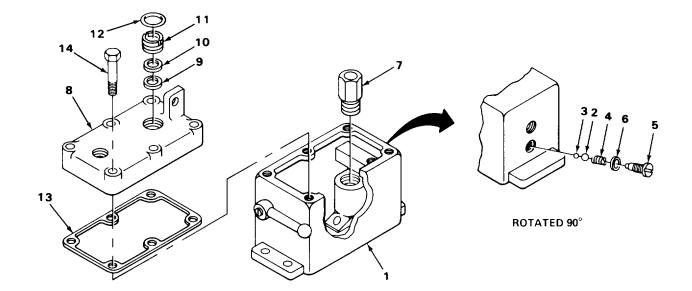
| LOCATION | ITEM | ACTION REMARKS |
|----------------------|---|--|
| ASSEMBLY - CONTINUED |) | |
| 26 Pump body (1) | Nut (2) and three new valve disks (3) | Put in using a flat-tip screwdriver. Do not tighten nut (2) at this time. |
| 27 | Spindle (4) | a. Screw in part way.b. Tighten nut (2) using flat-tip screwdriver. |
| 28 | Handle (5) | a. Turn spindle (4) clockwise until end is firmly seated. You may use handle (5) to turn the spindle (4). Do not tighten. b. Put handle (5) on spindle in the RAISE position. |
| 29 | Screw (6) and washer (7) | Put in using flat-tip screwdriver. |

HYDRAULIC PUMP - CONTINUED



HYDRAULIC PUMP - CONTINUED

| LOCATION | ITEM | ACTION REMARKS |
|----------------------|---|---|
| | | |
| ASSEMBLY - CONTINUED | | |
| 30 Pump body (1) | Two new balls (2) and (3), and new spring (4) | Put into position. |
| 31 | Screw (5) and washer (6) | Put in using a flat-tip screwdriver. |
| 32 | New cylinder (7) | Put in using a 9/16-inch box wrench. |
| 33 Pump cover (8) | New washer (9), new wiper (10), nut (1 1), and new gasket (12) | Put in using a flat-tip screwdriver. |
| 34 Pump body (1) | New gasket (13) and pump cover (8) | Put in position. |
| 35 | Six screws (14) | Screw in until flush. Do not tighten at this time. |



ACTION ITEM REMARKS LOCATION ASSEMBLY - CONTINUED Tighten to 20 lb ft (27.1 N•m). 36 Pump body (1) to Six screws (3) pump cover (2) Use the indicated sequence. Vent and filler Put in using a 5/8-inch box wrench. 37 Pump cover (2) plug (4) New piston (5) Put in. 38 39 Beam (6) and two a. Slide pin (7) into beam (6). pins (7) and (8) b. Put beam (6) into position by hooking pin (7) into slot in piston (5). c. Aline holes and slide in pin (8). Install using pliers. 40 Two new clips (9) Ο \bigcirc 5 3 9 6-1 \bigcirc Ο 2 1 €€ 3 Ð 6 4 6 \bigcirc \bigcirc TIGHTENING SEQUENCE

HYDRAULIC PUMP - CONTINUED



FOLLOW-ON MAINTENANCE: Install hydraulic pump (page 4-163).

TASK ENDS HERE

HYDRAULIC CYLINDER

This task covers:

- a. Disassembly (page 5-18)
- b. Assembly (page 5-18)

INITIAL SETUP

| Tools |
|-------|
|-------|

Adjustable wrench Internal retaining ring pliers 7/16-inch box wrench Materials/Parts

Parts package KC1510-73-05 Lubricating oil, PL

Equipment Condition

Hydraulic cylinder removed (page 4-166).

| LOCATION | ITEM | ACTION REMARKS |
|-------------|---|---|
| DISASSEMBLY | | |
| 1 Tube (1) | Bleeder valve (2) | Take out using a 7/16-inch box wrench. |
| 2 | Cap (3) | Take off using an adjustable wrench. |
| 3 Cap (3) | Ring (4) | Take out using internal retaining ring pliers. |
| 4 | Packing (5), ring (6) and scraper (7) | Take out. Get rid of packing (5) and scraper (7). |
| 5 Tube (1) | Rod (8) | Take out. |
| 6 Rod (8) | Two guides (9) | Take off. |
| SSEMBLY | | |
| | | NOTE |
| | Coat | all parts with PL oil before assembly. |
| 7 Rod (8) | Two guides (9) | Put on. |

ACTION LOCATION ITEM REMARKS ASSEMBLY - CONTINUED 8 Tube (1) Rod (8) Put in. 9 Cap (3) New packing (5), Put together using internal retaining ring new scraper (7), pliers. ring (6) and retaining ring (4) 10 Hydraulic Cap (3) Put on using an adjustable wrench. cylinder 11 Valve (2) Put in using a 7/16-inch box wrench. 7 3 5 6 æ 8 9 2 TASK ENDS HERE

HYDRAULIC CYLINDER - CONTINUED

Section VI SERVICEABILITY STANDARDS AND WEAR LIMITS

GENERAL

The following table lists the points of measurement of critically dimensioned parts together with the limiting dimensions for new or rebuilt parts and the extent of wear that can be tolerated. Wear limits for mating parts are given as the total combined limit of wear of both parts. Both mating parts should be replaced unless the extent of wear of one part is less than 25 percent of the combined wear, in which case only the most worn part need be replaced.

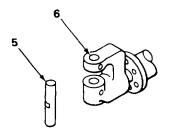
POINTS OF MEASUREMENT

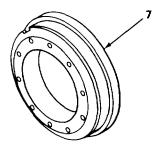
The points at which critical dimensions require measurement are illustrated in the accompanying figure.

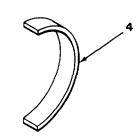
| TEM | POINT OF MEASUREMENT | SIZE OR FIT OF NEW PARTS | FIELD WEAR LIMITS |
|-----|--|---|---|
| 1 | Inside diameter of steering arm bushing | 0.748 to 0.750 in. (1.899 to 1.905 cm) | 0.30 in. (0.762 mm) combined with (2) |
| 2 | Outside diameter of towbar pivot pin | 0.745 to 0.747 in. (1.892 to 1.897 cm) | 0.030 in. (0.762 mm) combined with (1) 0.045 in. (1.143 mm) combined with (2) |
| 3 | Inside diameter of towbar pivot pin hole | 0.760 to 0.770 in. (1.930 to 1.956 cm) | 0.0625 in. (0.159 cm) combined with (2) |
| 4 | Thickness of brake lining | 0.323 to 0.343 in. (0.820 to 0.871 cm) | 0.125 in. (0.318 cm) |
| 5 | Outside diameter of kingpin | 0.995 to 1.005 in. (2.527 to 2.552 cm) | .015 in. (0.381 mm) combined with (6) |
| 6 | Inside diameter of knuckle bushing | 0.999 to 1.001 in. (2.537 to 2.542 cm) | 0.15 in. (0.381 mm) combined with (5) |
| 7 | Inside diameter of brake- drum | 10.995 to 11.005 in. (27.927 to 27.952 cm) | .080 in. (0.2032 cm) |
| 8 | Inside diameter of steering arm bushing hole | 1.001 to 1.003 in. (2.542 to 2.548 cm) | .0312 in. (0.792 mm) combined with (9) |

POINTS OF MEASUREMENT - CONTINUED

| ITEM | POINT OF MEASUREMENT | SIZE OR FIT OF NEW PARTS | FIELD WEAR LIMITS |
|------|--|--|---|
| 9 | Outside diameter of steering arm pivot pin | 0.9985 to 1.000 in. (2.536 to 2.540 cm) | .0312 in. (.792 mm) combined with (8) or (10) |
| 10 | Inside diameter of steering arm pivot pin hole in axle bracket | 1.000 to 1.00 in. (2.54 to 2.542 cm) | .0312 in. (.792 mm) combined with (9) |
| | | | |







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APPENDIX A

REFERENCES

PUBLICATION INDEX

This index should be consulted frequently for latest changes or revisions and for new publications relating to materiel covered in this technical manual.

DEPARTMENT OF THE ARMY PAMPHLETS

| Consolidated Index of Army Publications and Blank Forms | DA Pam 25-30 |
|---|----------------|
| Using Unit Supply System (Manual Procedures) | DA Pam 710-2-I |
| The Army Maintenance Management System (TAMMS) | DA Pam 738-750 |

FORMS

| Recommended Changes to Publications and Blank Forms | DA Form 2028 |
|--|----------------|
| Recommended Changes to Equipment Technical Publications | DA Form 2028-2 |
| Organizational Control Record for Equipment | DA Form 2401 |
| Equipment Inspection and Maintenance Worksheet | DA Form 2404 |
| Maintenance Request | DA Form 2407 |
| Preventive Maintenance Schedule and Record | DD Form 314 |
| Product Quality Deficiency Report (NSN 7540-00-105-0078) | SF 368 |

FIELD MANUALS

| NBC Contamination Avoidance | FM 3-3 |
|---|------------|
| NBC Protection | FM 3-4 |
| NBC Decontamination | FM3-5 |
| Field Behavior of NBC Agents (including Smoke and incendiaries) | FM3-6 |
| Camouflage | FM 5-20 |
| Ammunition Handbook | FM 9-13 |
| Operation and Maintenance of Ordnance Materiel in Cold Weather | |
| (O Deg to Minus 65 Deg F) | FM9-207 |
| Vehicle Recovery Operations. | FM 20-22 |
| First Aid for Soldiers | FM 21-11 |
| Manual for the Wheeled Vehicle Driver | FM 21-305 |
| Basic Cold Weather Manual | FM 31-70 |
| Northern Operations | FM 31-71 |
| Army Motor Transport Units and Operations | FM 55-30 |
| Desert Operations | FM 90-3 |
| Mountain Operations (How To Fight) | FM 90-6 |
| Operational Symbols | FM 101-5-1 |

SUPPLY BULLETIN

| Storage Serviceability Standard - Tracked Vehicles, | |
|---|-----------|
| Wheeled Vehicles, and Component Parts Sl | 3740-98-1 |

TECHNICAL BULLETINS

| Tactical Wheeled Vehicles: Repair of Frames TB 9-2300-247-30 |
|---|
| Equipment Improvement Report and Maintenance Digest (US Army |
| Tank-Automotive Command) Tank-Automotive Equipment |
| Color, Marking, and Camouflage Painting of Military Vehicles, |
| Construction Equipment, and Materiels Handling Equipment |
| Maintenance in the Desert |
| Description, Use, Bonding Techniques, and Properties of Adhesives |

TECHNICAL MANUALS

| Inspection, Care, and Maintenance of Antifriction BearingsTM 9-214 |
|--|
| Operator's Manual for Welding Theory and Application |
| Deepwater Fording of Ordnance Materiel TM 9-238 |
| Materials Used for Cleaning, Preserving, Abrading, and Cementing |
| Ordnance Materiel and Related Items Including Chemicals |
| Organizational, Direct Support and General Support, Care, Maintenance, |
| and Repair of Pneumatic Tires and Inner Tubes |
| Painting instructions for Field Use TM 43-0139 |
| Procedures for Destruction of Tank-Automotive Equipment |
| to Prevent Enemy Use |

OTHER PUBLICATIONS

| Army Medical Department Expendable/Durable Items |
|--|
| Expendable/Durable Items (Except Medical, Class V, Repair Parts, |
| and Heraldic items) |

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I INTRODUCTION

B-1. GENERAL

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance categories.

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 categories.

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 will be 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, i.e., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases.

d. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

e. Aline. 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 adjusted on instruments or test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons 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.

B-2. MAINTENANCE FUNCTIONS - CONTINUED

h. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and is shown as the 3rd position code of the SMR code.

i. Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, and disassembly/assembly procedures, and maintenance actions 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 materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) 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. End item group number shall be "00."

b. Column 2, Component/Assembly. Column 2 contains the 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 item listed in Column 2. (For detailed explanation of these functions, see paragraph B-2.)

d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn(s), the category of maintenance authorized to perform the function listed in Column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate work time figures will be shown for each category. 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. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance/quality control 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 categories are as follows:

- C Operator or crew
- O Organizational
- F Direct Support
- H General Support
- D Depot

B-3. EXPLANATION OF COLUMNS IN THE MAC, SECTION II - CONTINUED

e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TM DE, and support equipment required to perform the designated function.

f. Column 6, Remarks, This column shall, when applicable, contain a letter code, in alphabetic order, which shall be 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 11, column 5.

b. Column 2, Maintenance Category. The lowest category 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 the tool or test equipment.
- e. Column 5, Tool Number. The manufacturer's part number.

| (1) | (2) | (3) | (3) (4) (5) | | | (5) TOOLS | (6) | | |
|-----------------|------------------------|-------------------------|--------------------|------------|-----|--------------|-------------|---------|--|
| GROUP NUMBER | COMPONENT/ ASSEMBLY | MAINTENANCE FUNCTION | MAIN C | C O F H D | | | AND EQPT | REMARKS | |
| 0609 | Lamp, Incandescent | Replace | | 0.2 | | | | | |
| 0609 | Light Assemblies | Replace | | 0.2 | | | | | |
| 0613 | Wiring Harness | Repair Replace | | 0.5 0.5 | | | | | |
| 1000 | Front Axle Assembly | Replace | | 2.5 | | | | | |
| 1004 | Knuckle Assembly | Repair Replace | | 1.0 | 1.5 | | | | |
| 1100 | Spindles | Replace | | | 1.0 | | | | |
| 1101 | Rear Axle Beam | Replace | | 2.0 | | | | | |
| 1201 | Handbrake Lever | Replace Adjust | 0.2 | 0.5 | | | | | |

Section II MAINTENANCE ALLOCATION CHART

MAINTENANCE ALLOCATION CHART - CONTINUED

| (1) | (2) | (3) | | | | | (5) TOOLS | (6) | |
|--------|---------------------------|------------------------------|-----------|-------------------|-----|--|--------------|------|---------|
| GROUP | COMPONENT/ | MAINTENANCE | | | | | AND | | |
| NUMBER | ASSEMBLY | FUNCTION | C O F H D | | | | | EQPT | REMARKS |
| 1202 | Service Brake Assembly | Repair | | 1.5 | | | | | |
| 1204 | Wheel Cylinder | Replace | | 1.0 | | | | | |
| 1204 | Master Cylinder | Replace | | 1.0 | | | | | |
| 1204 | Lines and Fittings | Replace | | 1.0 | | | | | |
| 1208 | Air Brake Chamber | Replace Repair | | 2.0 | 1.0 | | | | |
| 1208 | Air Lines and Fittings | Replace | | 2.0 | | | | | |
| 1208 | Emergency- Relay Valve | Replace | | 0.2 | | | | | |
| 1208 | Reservoir, Air Tank | Replace | | 2.0 | | | | | |
| 1311 | Hub and Brake Drum | Replace Repair | | .5 | 1.5 | | | | |
| 1311 | Wheel Bearings | Replace Service Adjust | | 0.7 0.7 0.2 | | | | | |
| 1311 | Wheels | Replace | | .5 | | | | | |
| 1313 | Tires | Replace Repair Service | 0.2 | .5 1.0 | | | | | |
| 1313 | Tubes | Replace | | .5 | | | | | |
| 1401 | Steering Arm | Replace Repair | | .7 .2 | | | | | |
| 1401 | Tie Rod | Replace Repair | | .4 .4 | | | | | |

| (1) | (2) | (3) | | | | | | (5) TOOLS | (6) |
|--------------|---------------------------|--------------------|----------------------|------------|-----|---|---|--------------|---------|
| GROUP | COMPONENT/ | MAINTENANCE | MAINTENANCE CATEGORY | | | | | AND | |
| NUMBER | ASSEMBLY | FUNCTION | С | 0 | F | н | D | EQPT | REMARKS |
| 1501 | Strut Assemblies | Replace Repair | | .3 .3 | | | | | |
| 1501 | Rocker Arm Assemblies | Replace | | 1.0 | | | | | |
| 1503 | Pintle | Replace | | .3 | | | | | |
| 1503 | Towbar | Replace Repair | | 1.0 1.0 | | | | | |
| 1601 | Air Spring | Replace | | 1.0 | | | | | |
| 1604 | Shock Absorber | Replace | | 0.5 | | | | | |
| 1605 2202 | Radius Tube Reflectors | Replace Replace | | 1.0 0.2 | | | | | |
| 2202 | Toolbox | Replace | | 0.4 | | | | | |
| 2202 | Folding Stairway | Replace | | 0.4 | | | | | |
| 2210 | Data Plates | Replace | | 0.2 | | | | | |
| 2401 | Hydraulic Pump | Replace Repair | | 1.0 | 1.5 | | | | |
| 2406 | Hydraulic Lines | Replace | | 1.0 | | | | | |
| 2407 | Hydraulic Cylinder | Replace Repair | | 0.5 | 1.0 | | | | |

MAINTENANCE ALLOCATION CHART - CONTINUED

APPENDIX C

COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS

Section I INTRODUCTION

SCOPE

This appendix lists components of end item and basic issue items for the dolly set to help you inventory items required for safe and efficient operation.

GENERAL

The Components of End Item and Basic Issue Items Lists are divided into the following sections:

Section II. Components of End Item. This listing is for informational purposes only, and is not authority to requisition replacements. These items are part of the end item, but are removed and separately packaged for transportation or shipment. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Illustrations are furnished to assist you in identifying the items.

Section III. Basic Issue Items. These are the minimum essential items required to place the dolly set in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, BII must be with the dolly set during operation and whenever it is transferred between property accounts. The illustrations will assist you with hard-to-identify items. This manual is your authority to request/requisition replacement BII, based on TOE/MTOE authorization of the end item.

EXPLANATION OF COLUMNS

The following provides an explanation of columns found in the tabular listings:

Column (1) - Illustration Number (Illus Number). This column indicates the number of the illustration in which the item is shown.

Column (2) - National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

Column (3) - Description. Indicates the Federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the FSCM (in parentheses) followed by the part number.

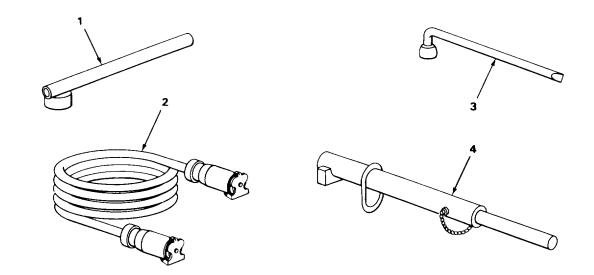
Column (4) - Unit of Measure (U/M). Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr).

Column (5) - Quantity required (Qty rqr). Indicates the quantity of the item authorized to be used with/on the equipment.

Section II COMPONENTS OF END ITEM

None authorized.





| (1) ITEM NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION FSCM AND PART NUMBER | USABLE ON CODE | (4) U/M U/M | (5) QTY REQR. |
|-----------------------|---------------------------------|--|-------------------|-------------------|---------------------|
| 1 | 2590-00-930-5669 | HANDLE, PUMP LEVELING JACK WITH FIXED SOCKET WRENCH 11612385 (19207) | | Ea | |
| 2 | 2590-00-930-5661 | HARNESS ASSEMBLY, INTERDOLLY, 29 FEET LONG WITH CONNECTOR 11612225 (19207) | | Ea | |
| 3 | 5120-00-935-4651 | WRENCH, SOCKET, WHEEL STUD N U T 11595182 (19207) | | Ea | |
| 4 | 2540-01-021-2864 | BAR, REAR DOLLY POSITIONING 12250482 (19207) | | Ea | |

APPENDIX D

ADDITIONAL AUTHORIZATION LIST

Section I INTRODUCTION

SCOPE

This appendix lists additional items you are authorized for the support of the M720 Dolly Set.

GENERAL

This list identifies items that do not have to accompany the M720 Dolly Set and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

EXPLANATION OF LISTING

National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support this equipment. The items are listed in alphabetical sequence by item name under the type document (i.e., CTA, MTOE, TDA, or JTA) which authorizes the item(s) to you.

Section II ADDITIONAL AUTHORIZATION LIST

None authorized.

APPENDIX E

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I INTRODUCTION

SCOPE

This appendix lists expendable supplies and materials you will need to operate and maintain the M720 Dolly Set, These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

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 material (e.g., Use cleaning compound, item 5, App. D).

b. Column (2) - Level. This column identifies the lowest level of maintenance that requires the listed item.

C - Operator/Crew

O - Organizational Maintenance

c. Column (3) - National Stock Number. This is the National stock number assigned to the item. use it to request or requisition the item.

d. Column (4) - Description. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.

e. Column (5) - Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function, This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Section II EXPENDABLE SUPPLIES AND MATERIALS LIST

| (1) ITEM NUMBER | (2) LEVEL | ⁽³⁾ NATIONAL STOCK NUMBER | (4) DESCRIPTION | (5) U/M |
|-----------------------|--------------|--|--|------------|
| 1 | 0 | 9150-01-102-3658 | Brake fluid, silicone (BFS) MIL-B-46176 | |
| 2 | 0 | 9150-00-190-0904 | 1 quart can Grease, automotive and artillery, GAA, M IL-G-1 0924 (81 349) 1 pound can | ea ea |

Section II EXPENDABLE SUPPLIES AND MATERIALS LIST - CONTINUED

| (1) ITEM NUMBER | (2) LEVEL | (3) NATIONAL STOCK NUMBER | (4) DESCRIPTION | (5) U/M |
|-----------------------|--------------|--|--|----------------------|
| 3 | ο | | Hydraulic fluid, petroleum base, OHT Mil-H-6083 (81349) | |
| | | 9150-00-159-4472 9150-00-935-9807 9150-00-935-9808 9150-00-935-9809 9150-00-935-9810 | 16 oz can 1 qt can 1 gallon can 5 gallon can 55 gallon can | ea ea ea ea |
| 4 | 0 | 9150-00-185-0629 9150-00-257-5436 9150-00-231-6689 | Oil, lubricating general purpose MIL-L-644A 2 oz (oblong screw-top can) 4 oz (oblong screw-top can) 1 qt can | ea ea ea |
| 5 | с | 6850-00-664-5685 | Solvent, drycleaning type 11, federal specification (PD-680) | |
| 6 | 0 | | (81348) 1 gallon can Tape, electrical | gl |
| 7 | 0 | | Roll Tape, masking | ea |
| 8 9 | 0 0 | 4710-00-289-8165 4710-00-162-1018 | Roll Tubing Tubing | ea ft ft |

APPENDIX F

UNIT MAINTENANCE,

DIRECT SUPPORT

AND

GENERAL SUPPORT MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

1. Scope.

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of Unit Maintenance, Direct Support and General Support Maintenance of the Dolly Set. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

2. General.

In addition to Section 1. Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. Repair kits are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in the section. Items listed are shown on the associated illustration(s)/figure(s).

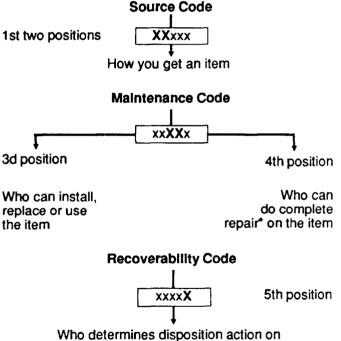
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. Cross-reference Indexes. A list, in National Item Identification Number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing; in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance. The figure and item number index lists figure and item numbers in alphanumeric sequence and cross-references NSN, FSCM, and part numbers.

3. Explanation of Columns (Sections II and III).

a. *ITEM NO. (Column (1)).* Indicates the number used to identify items called out in the illustration.

b. *SMR CODE (Column (2)).* The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instructions, as shown in the following breakout:



an unserviceable item

*Complete Repair. Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item. (1) Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

<u>Code</u> <u>Application/Explanation</u>

PA Stocked items; use the applicable NSN to PB request/requisition items with these source PC** codes. They are authorized to the category PD indicated by the code entered in the 3d PE position of the SMR code.

PF PG **Iterns coded PC are subject to deterioration.

KDItems with these codes are not to be re-
quested/requisitioned individually .They are
part of a kit which is authorized to the
maintenance category indicated in the 3d
position of the SMR code. The complete
kit must be requisitioned and applied.

MO-(Made at UM/ AVLJM Level) MF-(Made at IDS/

AVUM Level)

MH-(Made at IGS Level)

ML-(Made at Specialized Repair Act (SRA))

MD-(Made at Depot)

AO-(Assembled by UM/AVUM Level)

AF-(Assembled by IDS/AVIM Level)

AH-(Assembled by /GS Category

AL-(Assembled by SRA)

AD-(Assembled by Depot) Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the Bulk Material group of the repair parts list in this RPSTL. If the item is authorized to you by the 3d position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.

Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3d position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.

XA - Do not requisition an "XA"-coded item.Order its next higher assembly. (Also, refer to the NOTE below.)

- XB If an "XB" item is not available from salvage, order it using the FSCM and part number given.
- xc Installation drawing, diagram, instruction sheet, field service drawing, that is identified by the manufacturer's part number.
- XD Item is not stocked. Order an "XD"-coded item through normal supply channels using the FSCM and part number given, it no NSN is available.

NOTE: Cannibalization or controlled exchange, when authorized, may be used as source of supply for items with the above source codes, except for those source coded "XA or those aircraft support items restricted by requirements of AR 700-42.

(2) Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the t bird and fourth positions of the SMR Code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance.

Code Application/Explanation

- C Crew or operator maintenance done within unit maintenance or aviation unit maintenance.
- O Unit maintenance or aviation unit category can remove, replace, and use the item.
- F Intermediate Direct support or aviation intermediate level can remove, replace, and use the item.
- H Intermediate General support level can remove, replace, and use the item.
- L Specialized repair activity can remove, replace, and use the item.
- D Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions.) (NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.) This position will contain one of the following maintenance codes:

Code <u>Application/Explanat_ion</u>

- O- Unit maintenance or Aviation unit is the lowest level that can do complete repair of the item.
- F Intermediate Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
- H- Intermediate General support is the lowest level that can do complete repair of the item.
- L- Specialized repair activity is the lowest level that can do complete repair of the item.
- D- Depot is the lowest level that can do complete repair of the item.
- Z Nonreparable. No repair is authorized.
- B- No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item). However, the item may be reconditioned by adjusting, lubrication, etc., at the user level.

(3) Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

<u>Code</u> Application/Explanation

- Z Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR Code.
- O- Reparable item. When uneconomically reparable, condemn and dispose Of the item at unit maintenance or aviation unit level.
- F- Reparable item. When uneconomically reparable, condemn and dispose of the item at the intermediate direct supporl or aviation intermediate level.
- H- Reparable item. When uneconomically reparable, condemn and dispose of the item at the intermediate general support level.
- D- Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
- L Reparable item. Condemnation and disposal of item not authorized below specialized repair activity (SRA).

A - Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. FSCM (Column (3)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. PART NUMBER (Column (4)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE: When you use a NSN to requisition an item, the item you receive may have a different part number form the part ordered.

e. DESCRIPTION AND USABLE ON CODE (UOC) (Column (5)). This column includes the following information:

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) Physical security classification. Not applicable

(3) Items that are included in kits and sets are listed below the name of the kit or set on Figure KIT.

(4) Spare/repair parts that make up and assembled item are listed immediately following the assembled item line entry.

(5) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.

(6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC). Not applicable.

(7) The usable on code, when applicable (see paragraph 5, Special information)

(8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.

(9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.

f. *QTY* (*Column* (6)). The QTY (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

4. Explanation of Columns (Section IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) STOCK NUMBER column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine

NSN

digits of the NSN (i.e., 5305-<u>01-674-1467.</u>) When using

NIIN

this column to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) *FIG. columm* This column lists the number of the Figure where the item is identified/located. The figures are in numerical order in Section II and Section III.

(3) *ITEM column.* The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. PART NUMBER INDEX. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order.)

(1) *FSCM column.* The Federal Supply Code for Manufacturer (FSCM) is a 5 digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(2) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

(3) *STOCK NUMBER column.* This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM columns to the left.

(4) *FIG. column.* This column lists the number of the figure where the item is identified/located in Section II and III.

(5) *ITEM column.* The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

c. FIGURE AND ITEM NUMBER INDEX.

(1) *FIG. column.* This column lists the number of the figure where the item is identified/located in Section II and III.

(2) *ITEM column.* The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

(3) STOCK NUMBER column. This column lists the NSN for the item.

(4) *FSCM column.* The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(5) *PART NUMBER column.* Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

5. Special Information.

Use the following subparagraphs as applicable:

a. USABLE ON CODE. Not Applicable.

b. FABRICATION INSTRUCTIONS. Bulk materials required to manufacture items are listed in the Bulk Material Functional Group of this RPSTL. Part numbers for bulk materials are also referenced in the description column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in the appropriate appendices of this manual.

c. ASSEMBLY INSTRUCTION. Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in the appropriate appendices of this manual. Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

d. *KITS*. Line item entries for repair parts kits appear in group 9401 in Section II.

e. *INDEX NUMBERS*. Items which have the word BULK in the figure column will have and index number shown in the item number column. This index number is a cross-reference between the National Stock Number/Part Number Index and the bulk material list in Section II.

6. How to locate Repair Parts.

a. When National Stock Number or Part Number is Not Known.

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the some groups.

(2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) Third. Identify the item on the figure and use the Figure and Item Number Index to find the NSN.

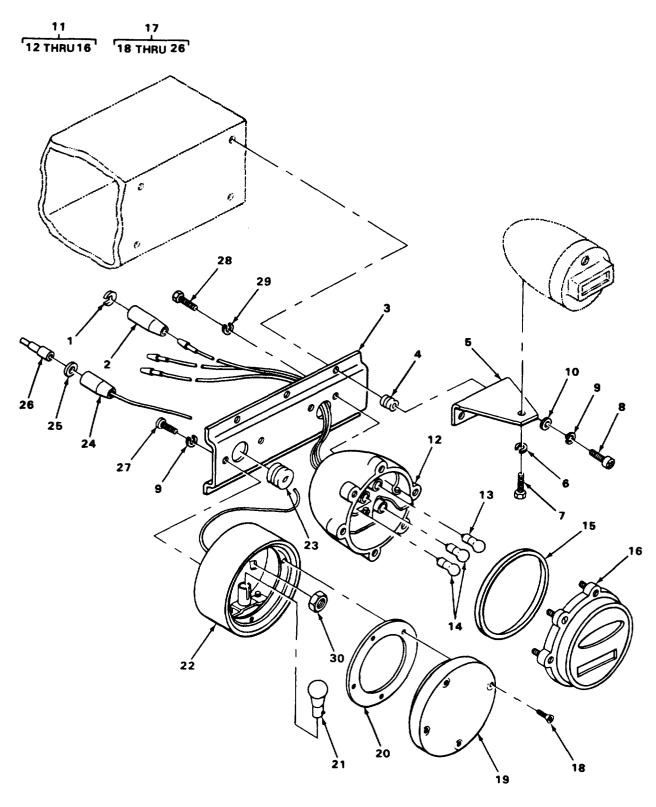
b. When National Stock Number or Part Number is Known:

(1) *First.* Using the National Stock Number or the Part Number Index, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see 4.1 (1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see 4. b). Both indexes cross-reference you to the illustration/figure and item number of the item you are looking for.

(2) *Second.* Turn to the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

7. Abbreviations.

For standard abbreviations see MIL-STD-12D, Military Standard Abbreviations For Use On Drawings, Specifications, Standards And In Technical Documents.

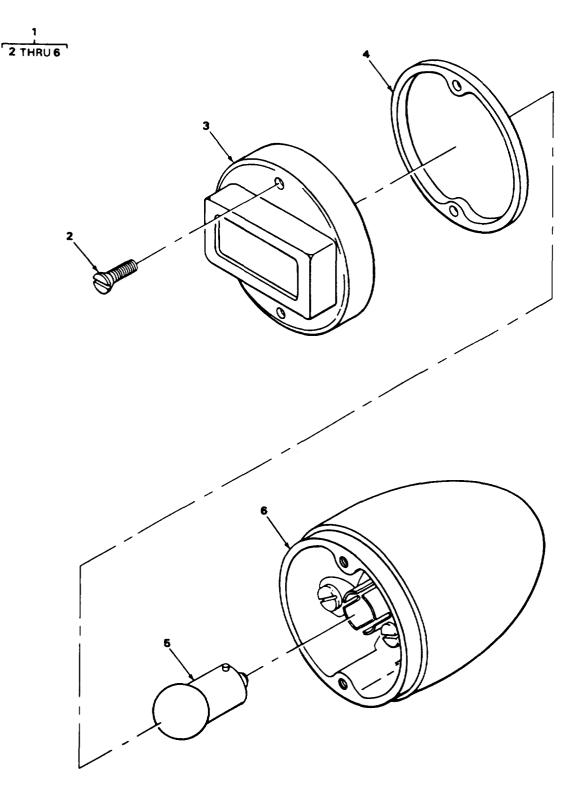


TA218830

FIGURE 1. TAILLIGHT AND STOPLIGHT (EARLY MODEL).

| SECTIO | NII | | TM 9-2330-285-14 | &P/TO 36A11-21-10-1 C01 | |
|-------------|------------|-------|---------------------------|--|-----|
| (1) ITEM | (2) Smr | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSC4 | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | GROUP 06 ELECTRICAL SYSTEM 0609 LIGHTS | |
| | | | | FIG.1. TAILLIGHT AND STOPLIGHT (EARLY MODEL) | |
| | - | - | 8724497 | WA SHER, SLOT TED | 6 |
| | | | 8338566 | SHELL, ELECTRICAL CO | 6 |
| | | | 11612174 | BRACKET LIGHT MOUNTING, RIGHT SIDE | 1 |
| | | | 11612175 | BRACKET LIGHT MOUNTING, LEFT SIDE | 1 |
| | | | M \$35489-35 | GRONMET, NONMETALLIC | 9 |
| | | | 11612116 | BRACKET | 1 |
| | | | M S35338-45 | WA SHER, LOC K | 1 |
| | | | M \$90727-69 | SCREW, CAP, HEXAGON H | 1 |
| | | | M \$35206-281 | SCREW, MACHINE | 9 |
| | | | M \$35338-44 | WA SHER, LOC K | 13 |
| | | | AN960-416 | WA SHER , FLAT | 9 |
| | | | M S51329-1 | STOP LIGHT-TAILLIGH | 2 |
| | | | M \$53047-1 | LIGHT, PARKING | 1 |
| | | | M S3 5478-1683 | .LAMP, INCANDESCENT STOP | 1 |
| | | | MS15570-1251 | .LAMP, INCANDESCENT TAILLIGHT | 2 |
| _ | | | 7320658 | .PACKING, PREFORMED. | 1 |
| | | 19207 | 7526020 | .RETAINER, LENS | 1 |
| | | | 5300082 | STOP LIGHT-TAILLIGH | 2 |
| | | | M S24629-25 | • SCREW, TAPPING, THRE A | 4 |
| | | | 11620987 | LENS,LIGHT | 1 |
| | | | 11620983 | | 1 |
| | | | W-L-00111/60 | LAMP, I NCANDESCENT | 1 |
| | | | 11612291 | BODY ASSEMBLY | 1 |
| | | | 11620979 | GROMMET, RUBBER | l |
| | | - | 8724495 | SHELL, ELECTRICAL CO | 1 |
| | | | 8724497 | WASHER, SLOTTED | 1 |
| | | | M S27148-3 | CONTACT, ELECTRICAL | 1 4 |
| | | | M S35207-281 | SCREW, MACHINE | 4 |
| — | | | MS18154-60 | SCREW, CAP, HEXAGON H. | 4 |
| | | | M S35335-41 M S51968-2 | WASHER, LOCK | 4 |
| 50 | PAULL | 70700 | N J J I 700= 2 | ITU I JE EAT NJIIEAA OUN++++++++++++++++++++++++++++++++++++ | T |

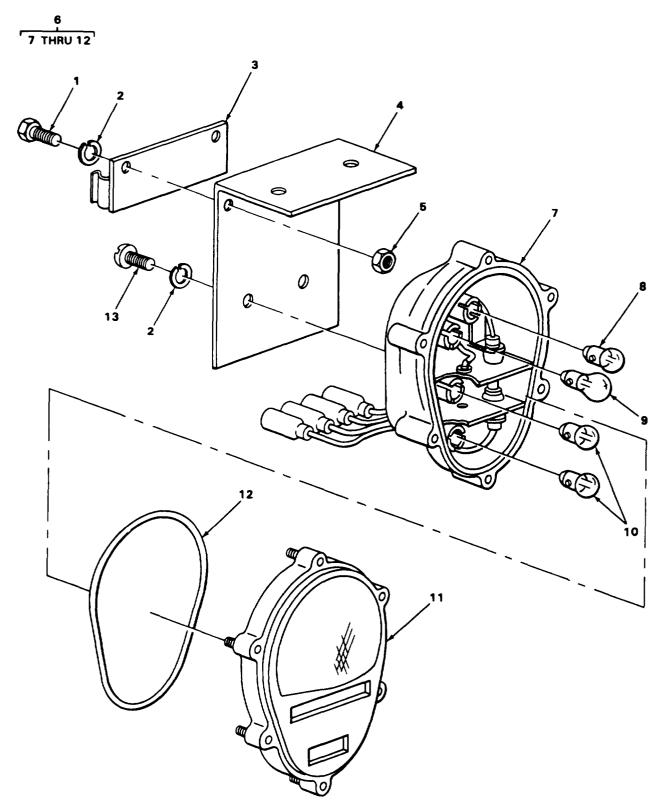
END OF FIGURE



TA218831

FIGURE 2. BLACKOUT STOPLIGHT ASSEMBLY (EARLY MODEL).

| SECTIO | ON II | | TM 9-2330-28 | 5-14&P/TO 36A11-21-10-1 C01 | |
|------------------|----------------------------------|----------------------------------|--|---|-----------------------|
| (1) ITEM | (2) SMR | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | 0609 LIGHTS FIG .2. BLACKOUT STOPLIGHT ASSEMBLY (EARLY MODEL) | |
| 2 3 4 5 | PAOZZ PAOZZ PAOZZ PAOZZ | 96906 19207 19207 81348 | 8741645 MS51959-46 8741646 8694464 W-L-00111/60 8741650 | STOP LIGHT, VEHICULA BLACKOUT. SCREW, MACHINE. RE TAINER, LENS. GA SKET. LAMP, INCANDESCENT. HOUSING, LIGHT. | 1 2 1 1 1 |
| | | | | END OF FIGURE | |



TA218832

FIGURE 3. COMPOSITE MARKER LIGHT (LATE MODEL).

| SECTIO | DN II | | TM 9-2330-28 | 8S-14&P/TO 36A11-21-10-1 C01 | |
|-------------|------------|-------|----------------|--|-----|
| (1) ITEM | (2) SMR | (3) | (4) PAR T | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | 0609 LIGHTS FIG.3. COMPOSITE MARKER LIGHT (LATE MODEL) | |
| 1 | PAOZZ | 96906 | M \$90727-4 | SCREW, CAP, HEXAGON H | 4 |
| 2 | PAOZZ | 96906 | M \$35338-44 | WA SHER, LOC K | 8 |
| 3 | PAOZZ | 19207 | 8747908-1 | CLIP ASSEMBLY | 2 |
| 4 | PFOZZ | 19207 | 12255388 | BRACKET,ANGLE | 2 |
| 5 | PFOZZ | 96906 | MS51968-2 | NUT, PLAIN, HEXAGON | 4 |
| 6 | PA000 | 96906 | M \$52125-2 | STOP LIGHT-TAILLIGH | 2 |
| 7 | PAOZZ | 19207 | 11639520 | .BODY ASSEMBLY | 1 |
| | | | MS15570-623 | LAMP, INCANDESCENT. | 1 |
| 9 | PAOZZ | 96906 | M \$35478-1683 | . LAMP, INCANDESCENT | 1 |
| 10 | PAOZZ | 96906 | MS15570-1251 | . LAMP, INCANDESCENT | 2 |
| 11 | PAOZZ | 19207 | 11639535 | LENS, LIGHT | 1 |
| 12 | PAOZZ | 19207 | 11639519-2 | • PACKING, PREFORMED. | 1 |
| | | | M \$35207-281 | SCREW, MACHINE | 4 |

END OF FIGURE

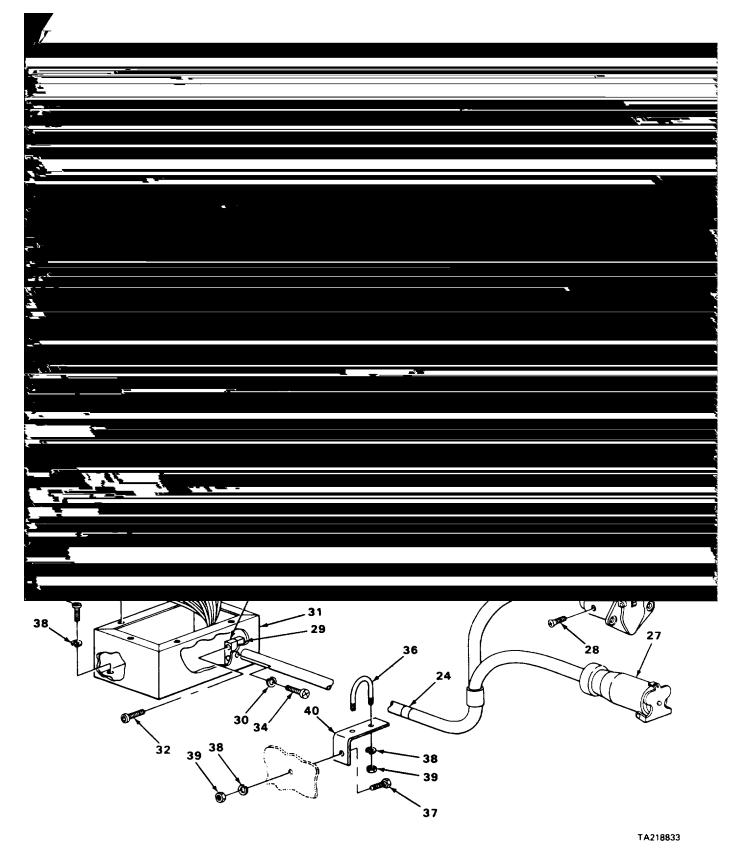
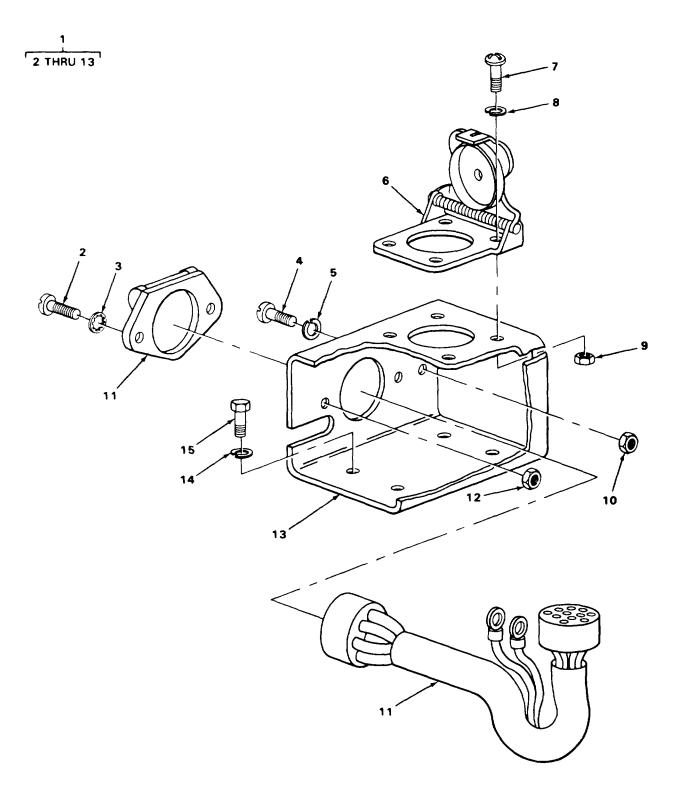


FIGURE 4. INTERVEHICULAR CABLE HARNESS AND JUNCTION BOX (EARLY MODEL).

| SECTION (1) | ON II (2) | (3) | TM 9-2330-285-14 (4) | 4&P/TO 36A11-21 -10-1 C01 (5) | 6) |
|-------------|--------------|--------|-------------------------|--|------------|
| ITEM | SMR | | PART | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) QI | ΓY |
| | | | | | |
| | | | | FIG.4. INTERVEHICULAR CABLE HARNESS AND JUNCTION BOX (EARLY MODEL) | |
| 1 | PAOFF | 16128 | 11612283 | TERMINAL BOX, SPECIA FRONT DOLLY, EARLY MODEL | 1 |
| 2 | x 8000 | 19207 | 11612293 | JUNCTION BOX COVER | 1 |
| - | | | M \$35206-245 | | 10 |
| | | | 12255353 | WIRING HARNESS, BRAN INNER, | 1 |
| • | 1 AOI II | . /201 | 12677373 | JUNCTION BOX | _ |
| 5 | PA077 | 96906 | MS75021-1 | ••• CONNECTOR, RECEPTACL | 1 |
| | | | M \$39020-1 | | 16 |
| | | | 506207 | TERMINAL, LUG | 7 |
| • | | | 11612162 | • CO VER • • • • • • • • • • • • • • • • • • • | 1 |
| | | | 11682104-1 | .RESISTOR,FIXED | 2 |
| | | | 11682104-2 | .RESISTOR, FIXED | 3 |
| | | | 11682104-3 | .RESISTOR, FIXED | 1 |
| | | | M \$35338-44 | WA SHER , LOCK | 4 |
| | | | MS51967-2 | •NUT,PLAIN,HEXAGON••••••••••• | 4 |
| 14 | XDOZZ | 19207 | 11621410 | .MARKER,STRIP | 2 |
| 15 | PAOZZ | 96906 | M S35206-265 | • SCREW, MACHINE | 4 |
| | | | 11602369 | .BLOCK, TER MINAL | 2 |
| _ | | | M \$35338-42 | • WA SHER , LOC K • • • • • • • • • • • • • • • • • • | 4 |
| | | | M \$35649-202 | .NUT, PLAIN, HEXAGON | 4 |
| | | | 7731428 | .COVER, ELECTRICAL CO | L |
| | | | 12255351 | TERMINAL BOX AND HA | 1 |
| 21 | PAOZZ | 16128 | 11612224 | WIRING HARNESS 12 AND 24 VOLT CONNECTORS | 1 |
| 22 | PAOZZ | 96906 | M \$39020-1 | | 17 |
| 23 | PAOZZ | 21450 | 506207 | | 10 |
| | | | M 43436-1-3 | ••BAND, MARKER••••• | 1 |
| 25 | PAOZZ | 19207 | 11602311 | ••CONNECTOR, RECEPTACL 12 VOLTS •••• | 1 |
| 26 | XBOZZ | 19207 | 11602310 | ••CAP ASSEMBLY, DUST •••••••••••••• | 1 |
| | | | M S75020-1 | CONNECTOR, PLUG, ELEC | 1 |
| | | | M \$35190-233 | •• SCREW, MACHINE•••••••••••••••• | 1 |
| | | | 11612292-2 | .CLAMP, CABLE | 1 |
| | | | M \$35338-42 | . WA SHER, LOCK | 5 |
| | | | 11612165 | BOX, JUNCTION | 1 |
| | | | MS16997-24 | SCREW, CAP, SOCKET HE | 2 |
| | | | 11612292-1 | CLAMP, CABLE | 7 |
| | | | MS35206-248 | SCREW, MACHINE | 3 |
| | | | 11612164 | GA SKE T | 1 |
| | | | 11612336 | | 1 |
| | | | MS90725-6 | SCREW, CAP, HEXAGON H | 1 7 |
| | | | M S35338-44 | WA SHER, LOCK | 3 |
| | | | MS51967-2 | BRACKET | 1 |
| | | | 11612309 | SCREW, MACHINE | 4 |
| 41 | PAULL | 40400 | MS35206-279 | | - |

END OF FIGURE



TA218834

FIGURE 5. JUNCTION BOX (LATE MODEL).

| SECTION II TM 9-2330-285 | | | TM 9-2330-285- | 14&P/TO 36A11-21-10-1 C01 | |
|--------------------------|-------|-------|----------------|--|-----|
| (1) | (2) | (3) | (4) | (5) | (6) |
| ITEM | SMR | | PAR T | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | 0613 CHASSIS WIRING HARNESS | |
| | | | | FIG.5. JUNCTION BOX (LATE MODEL) | |
| 1 | PAOZZ | 19207 | 1 22 55 351 | TERMINAL BOX AND HA FRONT DOLLY, | 1 |
| - | | | | LATE MODEL | |
| 2 | PA077 | 96906 | MS35266-80 | SCREW, MACHINE | 2 |
| | | | M \$35333-40 | WA SHER, LOCK | 2 |
| | | | M \$35206-245 | SCREW, MACHINE | 1 |
| | | | M \$35338-42 | . WA SHER , LOC K | 1 |
| | | | 7731428 | .COVER, ELECTRICAL CO | 1 |
| | | | MS35206-231 | • SCREW, MACHINE • • • • • • • • • • • • • • • • • • • | 4 |
| | | | M \$35338-44 | WA SHER, LOCK | 4 |
| | | | M S51967-2 | NUT, PLAIN, HEXAGON | 4 |
| | | | M \$35649-282 | .NUT, PLAIN, HEXAGON | 1 |
| | | | 12255353 | WIRING HARNESS, BRAN | 1 |
| | | | M S51967-2 | .NUT, PLAIN, HEXAGON | 2 |
| | | | 12255352 | . TERMINAL BOX | 1 |
| | | | M \$35338-44 | WA SHER, LOC K | 4 |
| | | | M S90725-5 | SCREW, CAP, HEXAGON H | 4 |
| 17 | | | | - • • | |



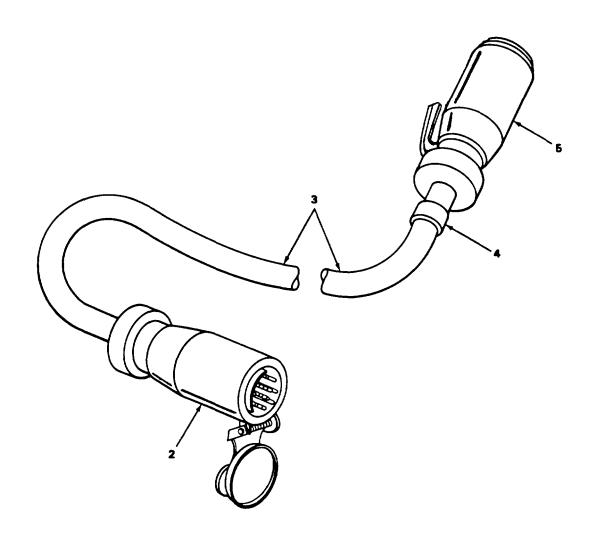


FIGURE 6. INTER DOLLY CABLE ASSEMBLY.

| SECT | ION II | | TM 9-2330-286 | 6-14&P/TO 36A11-21-10-1 C01 | |
|-------------|------------|---------------|---------------|---|-----|
| (1) ITEM | (2) SMR | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSC4 | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | 0613 CHASSIS WIRING HARNESS FIG.6. INTERVEHICLULAR CABLE | |
| 1 | PAOZZ | 19207 | 11682073 | CABLE ASSEMBLY, SPEC LATE MODEL | 1 |
| 2 | PAOZZ | 96906 | M S75020-1 | .CONNECTOR, PLUG, ELEC | ī |
| 3 | MOOZZ | 19207 | 7056684-25 | •CABLE,ELECTRICAL MAKE FROM P/N M13486/10-1 (81349) | 1 |
| 4 | PAOZZ | 81349 | M43436-1-3 | • BAND, MARKER | 1 |
| 5 | PAOZZ | 96 906 | M \$75020-2 | .CONNECTOR, PLUG, ELEC | 1 |
| | | | | | |

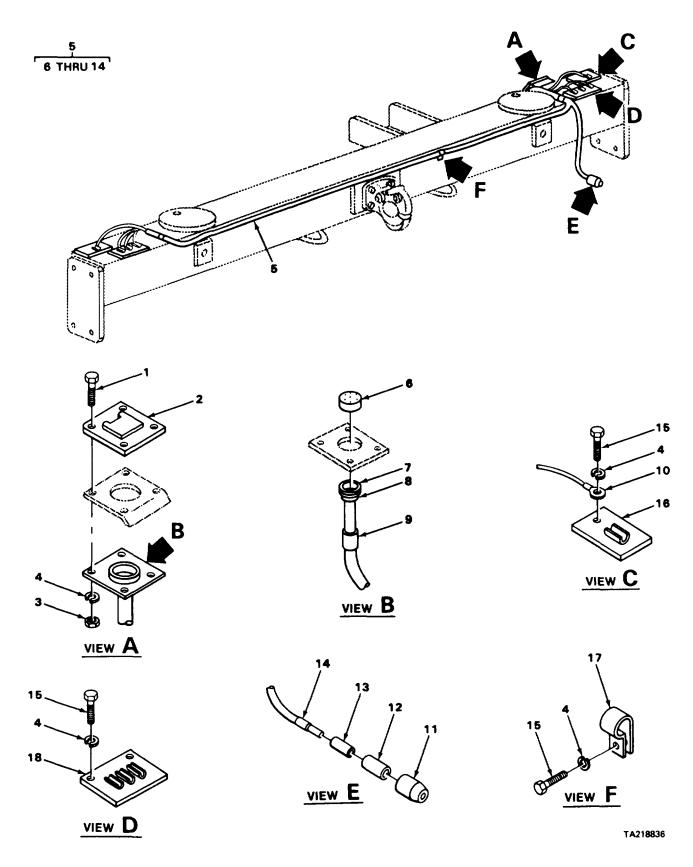


FIGURE 7. WIRING HARNESS, REAR TRAILER DOLLY (EARLY MODEL).

| SECTION II | | | TM 9-2330-285-14&P/TO 36A11-21 -10-1 C01 | | |
|-------------|------------|-------|--|--|-----|
| (l) ITEM | (2) Smr | (3) | (4) PART | (5) | (6) |
| ND | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | 0613 CHASSIS WIRING HARNESS | |
| | | | | FIG.7. WIRING HARNESS, REAR TRAILER DOLLY (EARLY MODEL) | |
| | | | | | |
| 1 | PAOZZ | 96906 | MS90725-6 | SCREW, CAP, HEXAGON H | 4 |
| 2 | PAOZZ | 19207 | 7731428 | COVER, ELECTRICAL CO | 1 |
| 3 | PAOZZ | 96906 | M \$51967-2 | NUT, PLAIN, HEXAGON | 4 |
| 4 | PAOZZ | 96906 | M \$35338-44 | WASHER, LOCK | 16 |
| 5 | PAOZZ | 24835 | 6600045 | WIRING HARNESS, BRAN REAR DOLLY, | 1 |
| | | | | EARLY MODEL | |
| 6 | PAOZZ | 96906 | MS75021-2 | .CONNECTOR, RECEPTACL | 1 |
| | | | 7722333 | •BUSHING •RUBBER ••••••••••••••••• | 1 |
| 8 | PAOZZ | 19207 | 7723309 | .NUT,PLAIN,KNURLED | L |
| 9 | PAOZZ | 81349 | M43436/1-3 | .BAND, MARKER | 1 |
| 10 | PADZZ | 21450 | 506209 | • TERMINAL, LUG••••••••••••••••• | 1 |
| 11 | PAOZZ | 19207 | 8338561 | .SHELL, ELECTRICAL CO | 9 |
| 12 | PAOZZ | 19207 | 8338562 | .INSULATOR, BUSHING | 9 |
| 13 | PAOZZ | 19207 | 8338563 | .FERRULE, ELECTRICAL | 9 |
| 14 | PAOZZ | 81349 | M43436/1-1 | •BAND •MARKER ••••••••••••••••• | 21 |
| | | | M S35206-279 | SCREW, MACHINE | 12 |
| | | | 8722944 | CLIP ASSEMBLY, WIRE | 2 |
| | | | M S9025-07 | CLAMP,LOOP | 6 |
| 18 | PAOZZ | 19207 | 8722870 | CLIP ASSEMBLY, WIRIN | 2 |

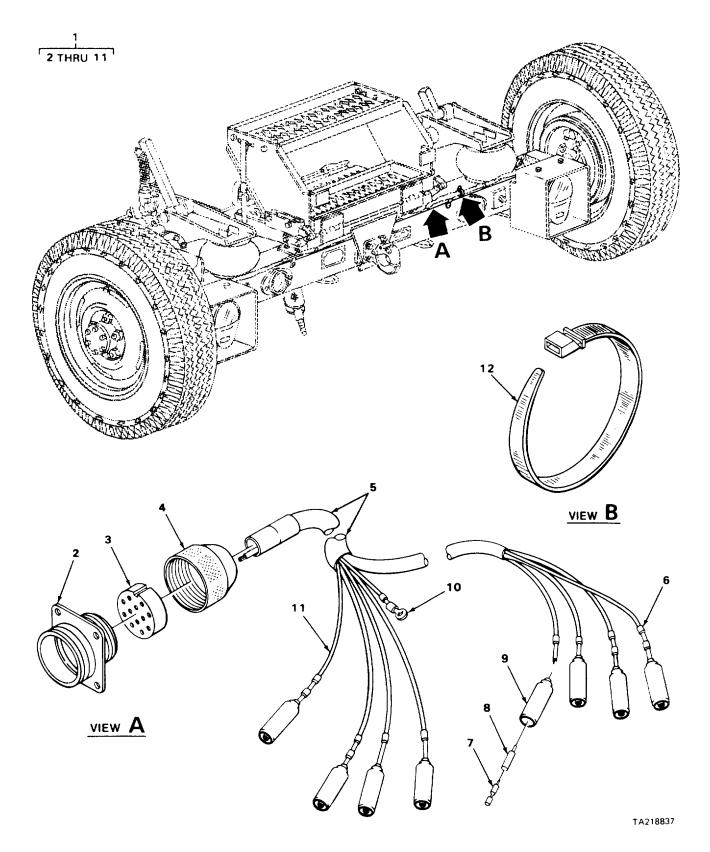


FIGURE 8. WIRING HARNESS, REAR TRAILER DOLLY (LATE MODEL).

| SECTION II TM 9-2330 | | | TM 9-2330-285-2 | 14&P/TO 36A11-21-10-1 C01 | |
|----------------------|------------|-------|-----------------|--|-----|
| (l) ITEM | (2) Smr | (3) | (4) PART | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | 0613 CHASSIS WIRING HARNESS FIG.8. WIRING HARNESS, REAR TRAILER DOLLY (LATE MODEL) | |
| 1 | PAOZZ | 19207 | 11682075 | WIRING HARNESS, BRAN REAR TRAILER, DOLLY, LATE MODEL | 1 |
| 2 | PAOZZ | 96906 | H \$75021-2 | .CONNECTOR, RECEPTACL | 1 |
| 3 | PAOZZ | 19207 | 7722333 | .BUSHING, RUBBER | L |
| 4 | PAOZZ | 19207 | 7723309 | .NUT,PLAIN,KNURLED | 1 |
| 5 | PAOZZ | 81349 | N43436/1-3 | .BAND, MARKER | 1 |
| 6 | PAOZZ | 81349 | M43436/1-1 | •BAND,MARKER | 1 |
| 7 | PAOZZ | 04939 | 8338564 | .TERMINAL ASSEMBLY | 8 |
| 8 | PAOZZ | 19207 | 8338562 | .INSULATOR, BUSHING | 8 |
| 9 | PAOZZ | 04939 | 8338561 | .SHELL, ELECTRICAL CO | 8 |
| 10 | PAOZZ | 21450 | 506209 | . TERMINAL, LUG | 1 |
| 11 | PAOZZ | 81349 | M 13486-1-5 | • WIRE ,ELECTRICAL | 1 |
| 12 | PAOZZ | 79500 | 9218211-1 | STRAP, TIEDOWN, ELECT | 10 |

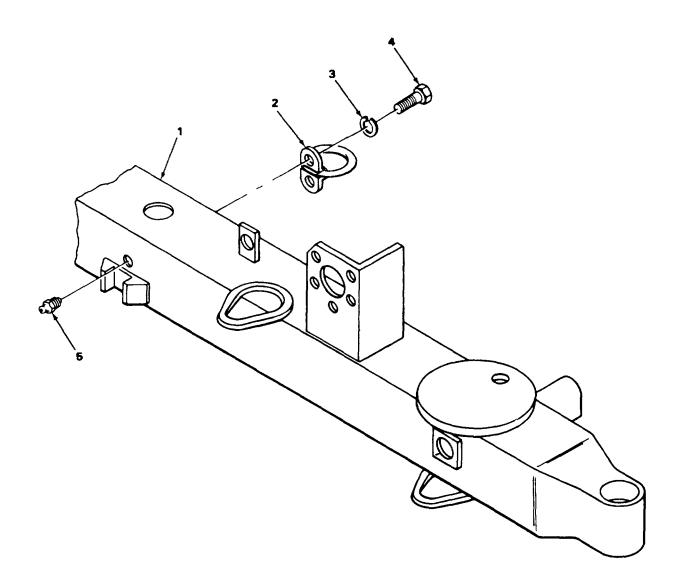


FIGURE 9. FRONT AXLE ASSEMBLY.

| SECTIO | N II | | TM 9-2330-28 | 5-14&P/TO 36A11-21-10-1 C01 | |
|-------------|------------|-------|--------------|--------------------------------------|-----|
| (1) ITEM | (2) SMR | (3) | (4) Part | (5) | (6) |
| NO | | | | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 10 FRONT AXLE | |
| | | | | 1000 FRONT AXLE ASSEMBLY | |
| | | | | FIG.9. FRONT AXLE ASSEMBLY | |
| 1 | PAOZZ | 19207 | 11612268 | AXLE,VEHICULAR,NOND | l |
| 2 | PAOZZ | 98313 | FDK 2850 | RING, DEE LIFTING, FRONT AXLE | 1 |
| 3 | PAOZZ | 96906 | M \$35338-44 | WA SHER , LOC K | 2 |
| 4 | PAOZZ | 96906 | M \$90725-6 | SCREW, CAP, HEXAGON H | 2 |
| 5 | PAOZZ | 96906 | MS15001-1 | FITTING, LUBRICATION | 1 |

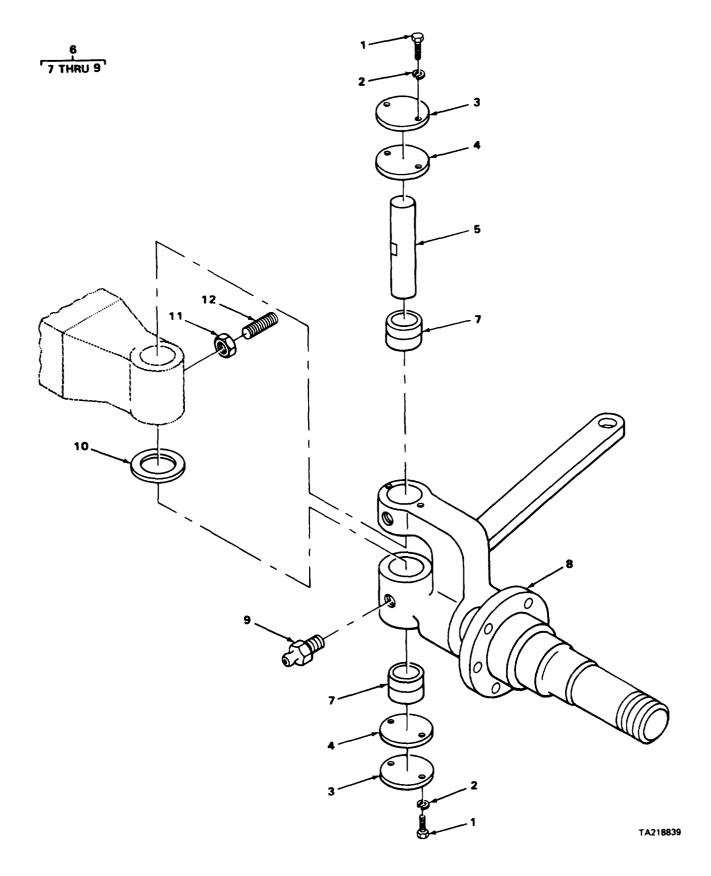


FIGURE 10. KNUCKLE ASSEMBLY.

| SECTI | ON II | | TM 9-2330-285- | 14&P/TO 36A11-21-10-1 C01 | |
|-------------|------------|-------|--------------------|--------------------------------------|-----|
| (1) ITEM | (2) SMR | (3) | (4) Part | (5) | (6) |
| NO | CODE | F SCM | | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | 1004 STEERING | |
| | | | | FIG.10. KNUCKLE ASSEMBLY | |
| 1 | PAOZZ | 96906 | M S16997-43 | SCREW, CAP, SOCKET HE | 8 |
| 2 | PAOZZ | 96906 | M \$35338-42 | WA SHER , LOC K | 8 |
| | | | 11612331 | SPACER, PLATE | 4 |
| 4 | PAOZZ | 19207 | 11612332 | GA SKE T | 4 |
| 5 | PFFZZ | 19207 | 11612182 | PIN, KING | 2 |
| 6 | PAOZZ | 19207 | 11612279-1 | SPINDLE, WHEEL, NONDR RIGHT HAND | 1 |
| 6 | PAOZZ | 19207 | 11612279-2 | SPINDLE, WHEEL, NONDR LEFT HAND | 1 |
| 7 | PAFZZ | 19207 | 11612110-1 | .BEARING, SLEEVE | 2 |
| 8 | XDOZZ | 19207 | 11612259-3 | .KNUCKLE ASSEMBLY ST LEFT HAND | 1 |
| 8 | PAOZZ | 19207 | 1 16 1 2 2 5 9 - 1 | .SPINDLE, WHEEL, DRIVI RIGHT HAND | 1 |
| 9 | PAOZZ | 96906 | M \$15001-1 | .FITTING,LUBRICATION | 2 |
| 10 | PAOZZ | 19207 | 11612184 | BEARING, WASHER, THRU | 2 |
| | | | MS51968-5 | NUT, PLAIN, HEXAGON | |
| 12 | PAOZZ | 96906 | M \$51964-84 | SETSCREW | 2 |

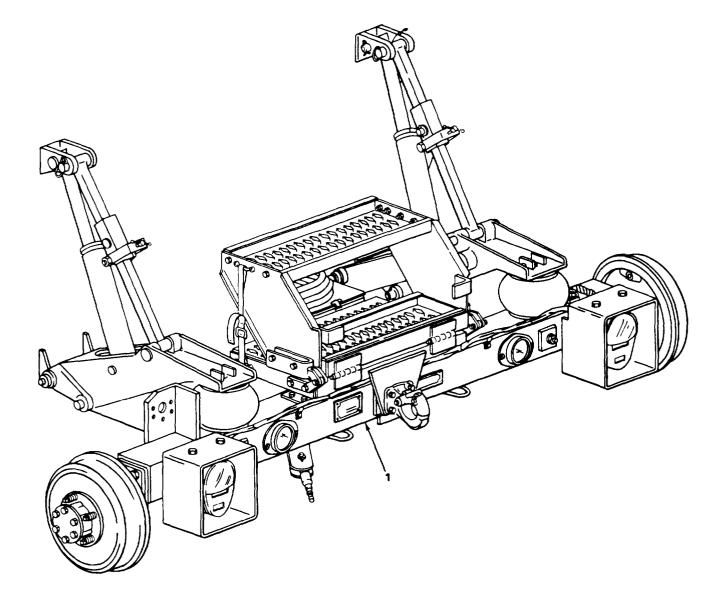


FIGURE 11. REAR AXLE ASSEMBLY.

| SECTIO | ON II | | TM 9-2330-28 | 5-14&P/TO 36A11-21-10-1 C01 | |
|--------|-------|-------|--------------|--------------------------------------|-----|
| (1) | (2) | (3) | (4) | (5) | (6) |
| IT EM | SMR | | PART | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | GROUP 11 REAR AXLE | |
| | | | | 1100 REAR AXLE ASSEMBLY | |
| | | | | FIG. 11. REAR AXLE ASSEMBLY | |
| 1 | xdozz | 19207 | 11612274 | AXLE ASSEMBLY, REAR | 1 |
| | | | | END OF FIGURE | |

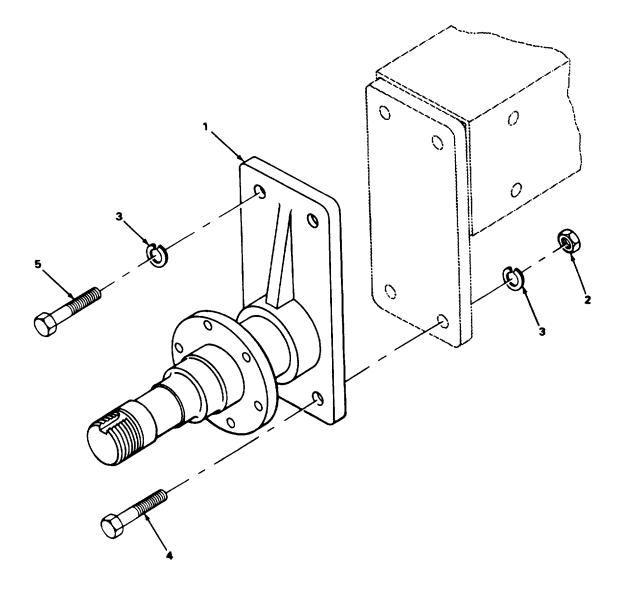


FIGURE 12. REAR SPINDLES.

| SECTI | ON II | | TM9-2330-28 | 5-14&P/TO 36A11-21-10-1 C01 |
|-------------|------------|--------|---------------|---|
| (1) ITEM | (2) SMR | (3) | (4) Part | (5) (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) QTY |
| | | | | 1100 REAR AXLE ASSEMBLY FIG. 12. REAR SPINDLES |
| 1 | PAFZZ | 19207 | 11612220-1 | SPINDLE, WHEEL, NONDR RIGHT HAND 1 |
| 1 | PAFZZ | 19207 | 11612220-2 | SPINDLE, WHEEL, NONDR LEFT HAND 1 |
| 2 | PAFZZ | 96906 | M S51968-14 | NUT, PLAIN, HEXAGON |
| 3 | PAFZZ | 96906 | M \$35338-48 | WA SHER, LOC K |
| 4 | PAFZZ | 96 906 | M \$90727-114 | SCREW, CAP, HEXAGON H 4 |
| 5 | PAFZZ | 96906 | M \$90727-11 | SCREW, CAP, HEXAGON H 4 |
| | | | | |

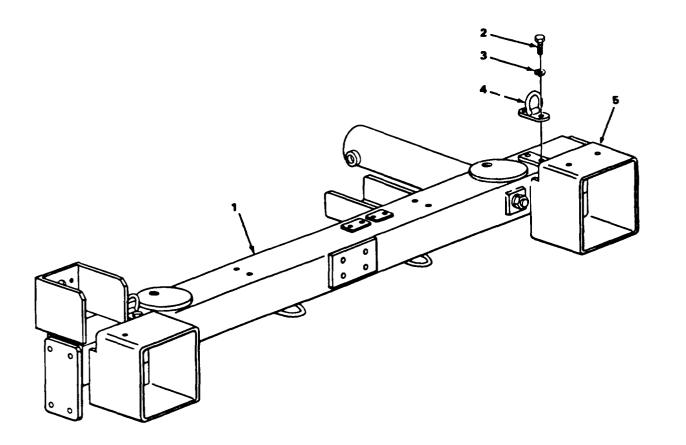


FIGURE 13. REAR AXLE BEAM.

| SECTION II | | | TM9-2330-285-14&P/TO 36A11-21 -10-1 C01 | | | | |
|------------|-------|-------|---|--------------------------------------|-----|--|--|
| (1) | (2) | (3) | (4) | (5) | (6) | | |
| ITEM | SMR | | PAR T | | | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY | | |
| | | | | 1101 HOUSING AND BEAM | | | |
| | | | | FIG. 13 REAR AXLE BEAM | | | |
| 1 | PFFFF | 19207 | 11612267 | AXLE ASSEMBLY | L | | |
| 2 | PAOZZ | 96906 | M \$90725-6 | SCREW, CAP, HEXAGON H | 4 | | |
| 3 | PAOZZ | 96906 | M \$35338-44 | WA SHER , LOC K | 4 | | |
| 4 | PAOZZ | 19207 | 11602355 | RING, CONNECTING, ROU | 2 | | |
| 5 | PFFZZ | 19207 | 12255389 | SUPPORT, REAR LIGHT | 2 | | |
| | | | | END OF FIGURE | | | |

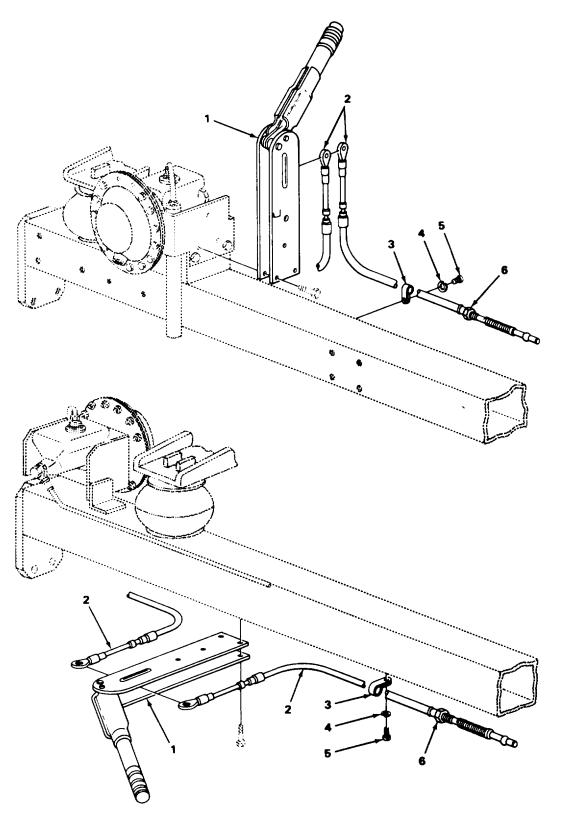


FIGURE 14. HAND BRAKE.

| SECTI | ON II | | TM 9-2330-285-14&P/TO 36A11-21-10-1 C01 | | |
|-------|-------------|---------------|---|---|-----|
| | (2) | | | (5) | (6) |
| ND | SMR CODE | | PART NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 12 BRAKES 1201 HAND BRAKES FIG. 14 HAND BRAKE | |
| | | | | | |
| | | | | LEVER, MANUAL CONTRO | 1 |
| 2 | PAOZZ | 19207 | 11602357-1 | CONTROL ASSEMBLY, PU RIGHT SIDE, | 1 |
| | | | | EARLY MODEL | - |
| 2 | PAOZZ | 19207 | 11602357-2 | CONTROL ASSEMBLY, PU LEFT SIDE, LATE | 1 |
| | | | | MODEL | _ |
| 3 | PAOZZ | 96906 | M \$9025-07 | | 5 |
| _ | | | | MODEL | |
| 3 | PAOZZ | 96906 | MS9025-07 | CLAMP, LOOP CABLE MOUNTING, LATE | 6 |
| | | | | MODEL. | 5 |
| 4 | PAOZZ | 96906 | M \$35338-44 | WASHER, LOCK CABLE CLAMP MOUNTING, | 2 |
| | | | | EARLY MODEL | |
| 4 | PAOZZ | 96906 | M \$35338-44 | WASHER, LOCK CABLE CLAMP MOUNTING, | 6 |
| - | 01077 | 0/00/ | NC2520/ 270 | | 5 |
| 5 | PAUZZ | 96906 | M \$35206-279 | SCREW, MACHINE CABLE CLAMP MOUNTING, | 2 |
| - | | 01001 | 4626204 270 | | 6 |
| 2 | PAULL | 20200 | M \$35206-279 | SCREW, MACHINE CABLE CLAMP MOUNTING, | 0 |
| | DA077 | 06004 | M S35691-41 | LATE MODEL | 8 |
| 0 | PAULL | A0 400 | H 222021-41 | NU1 #FLA1N#NEAAUUN********************************* | 0 |
| | | | | | |

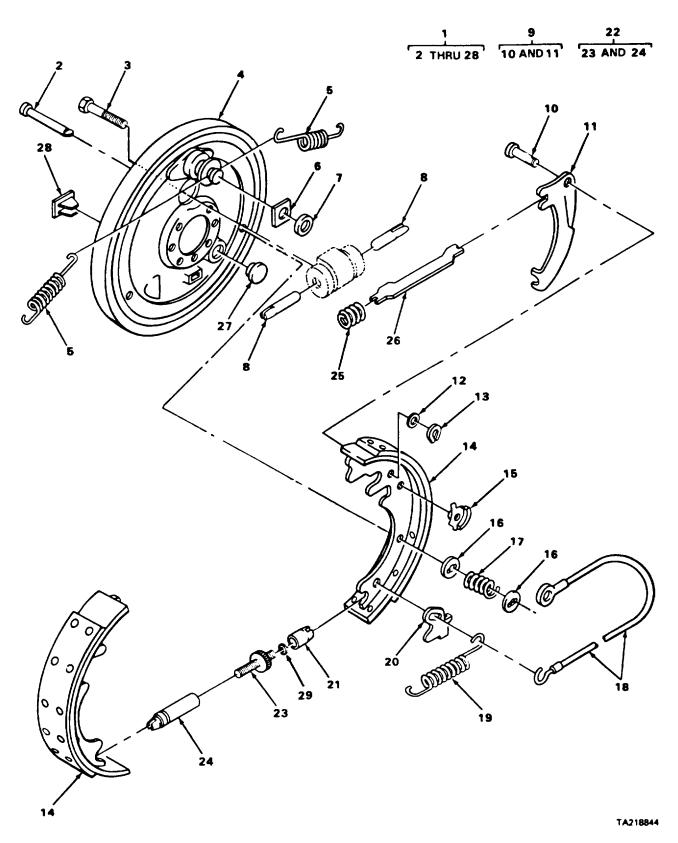


FIGURE 15. SERVICE BRAKE ASSEMBLY.

| SECTIO | ON II | | TM 9-2330-285-1 | 14&P/TO 36A11-21-10-1 C01 | |
|--------|---------------|---------|-------------------------------------|---|--------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| ITEM | SMR | | PART | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | 1202 SERVICE BRAKES | |
| | | | | FIG. 15. SERVICE BRAKE ASSEMBLY | |
| 1 | DA AAA | 14902 | 322768 | BRAKE, SHOE TYPE RIGHT SIDE | 2 |
| | | | 322767 | BRAKE, SHOE TYPE LEFT SIDE | 2 2 |
| | | | 5303476 | .PIN,RETAINING SHOE PART OF KIT P/N | 2 |
| - | NI OCL | 1,101 | <i>y</i> y y y y y y y y y y | 937952 | 2 |
| 3 | PAOZZ | 24617 | 423560 | SCREW, ASSEMBLED WAS | 2 |
| 4 | PAOZZ | 06853 | 318459 | .PLATE, BACKING, BRAKE USE WITH P/N | 2 |
| | | | | 11602367-1 | |
| 4 | PAOZZ | 06853 | 315684R | .PLATE, BACKING, BRAKE USE WITH P/N | 2 |
| | | | | 11602367-2 | |
| 5 | PAOZZ | 06853 | 31629 | . SPRING ,HELICAL, EXTE | 2 |
| 6 | PFOZZ | 14892 | 41029 | . RETAINER, BRAKE, LEVE | 1 |
| 7 | PFOZZ | 19207 | 11686280 | . WA SHER, SPRING TENSI | 1 |
| 8 | PAOZZ | 19207 | 11602496 | .LINK, WHEEL CYLINDER | 2 |
| 9 | PAOZZ | 14892 | 307651 | •LEVER ASSEMBLY PARK USE WITH P/N | 1 |
| | | | | 11602367-1 | |
| 9 | X DOZ Z | 14892 | 307652 | •LEVER ASSEMBY PARK USE WITH P/N | 1 |
| | | | | 11602367-2 | |
| 10 | XAOZZ | 19207 | 1 1602497 | • • P I N • • • • • • • • • • • • • • • • • • | 1 |
| 11 | XAOZZ | 06853 | 307653 | LEVER USE WITH P/N 11602367-1 | 1 |
| 11 | XAOZZ | 06853 | 307654 | ••LEVER USE WITH P/N 11602367-2•••• | 1 |
| 12 | PFOZZ | 19207 | 1 16 86280 | .WASHER, SPRING TENSI | 1 |
| | | | 100202HA | •RETAINER, BRAKE, LEVE | 1 |
| 14 | PAOZZ | 06853 | 315898 | BRAKE SHOE | 2 |
| 15 | PFOZZ | 14892 | 309992 | •GUIDE,CABLE····· | 1 |
| | | | 11602492 | •CUP, SPRING PART OF KIT P/N 937952 | 2 |
| 17 | KFOZZ | 19207 | 5304039 | .SPRING HELICAL, COMP PART OF KIT P/N | 1 |
| | | | | 937952 | |
| | | | 315256 | .WIRE ROPE ASSEMBLY, | 1 |
| | | | 311309 | • SPRING HELICAL, EXTE | 1 |
| 20 | PFOZZ | 14892 | 315231 | .LEVER, BRAKE ADJUSTI USE WITH P/N | 1 |
| | | | | 11602367-1 | |
| 20 | PFOZZ | 14892 | 315232 | LEVER, BRAKE ADJUSTI USE WITH P/N | 1 |
| | | 1 (000 | 212172 | 11602367-2 | • |
| | | | 312168 | SOCKET, BRAKE ADJUST | 1 |
| 22 | PFUZZ | 14894 | 3203007 | BRAKE, ADJUSTING SCR USE WITH P/N | 1 |
| | BC077 | 14002 | 3203006 | 11602367-2 BRAKE, ADJUSTING SCR USE WITH P/N | • |
| 22 | PFULL | 14092 | 3203000 | 11602367-1 | 1 |
| 22 | 01077 | 04957 | 211 52 01 | ADJUSTER, SLACK, BRAK USE WITH P/N | 1 |
| 23 | PAULL | 00000 | 311538L | 11602367-1 | 1 |
| 23 | 04077 | 14994 | 3203006 | .ADJUSTER, SLACK, BRAK USE WITH P/N | 1 |
| 23 | FAULL | 14074 | 5203008 | 11602367-2 | T |
| 24 | X DO 7 7 | 06853 | 312165 | PIVOT NUT ADJUSTING USE WITH P/N | 1 |
| L 1 | | | ~**** | 11602367-1, LH. | L |
| 24 | XD077 | 06853 | 312166 | ••PIVOT NUT ADJUSTING USE WITH P/N | 1 |
| 67 | | 55055 | | 11602367-2, RH | • |
| 25 | PA077 | 06853 | 39244 | .SPRING, HELICAL, COMP | 1 |
| | | | 322771 | CONNECTING LINK, RIG LH. | 1 |
| | | | 322772 | LINK, ANCHOR, BRAKES RH | i |
| | | | | · · · · · · · · · · · · · · · · · · · | - |

| SECTION II | | | TM 9-2330-2 | 85-14&P/TO 36A11-21-10-1 C01 |
|-------------|------------|-------|-------------|---|
| (1) ITEM | (2) SMR | (3) | (4) PART | (5) (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) QTY |
| 27 | PAOZZ | 14894 | 301055 | .COVER, ADJUSTER FRONT BRAKE 1 ASSEMBLY ONLY |
| 28 | PAOZZ | 19207 | 7001423 | .PLUG, PROTECTIVE, DUS |
| 29 | XDOZZ | 06853 | 316816 | . WA SHER |

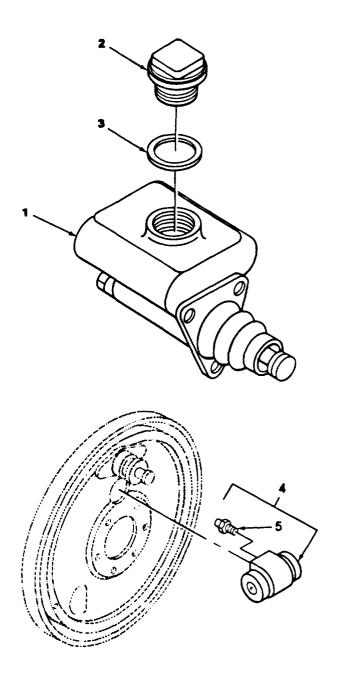


FIGURE 16. HYDRAULIC MASTER CYLINDER AND WHEEL CYLINDER.

| SECTIC | DN II | | TM 9-2330-285- | 14&P/TO 36A11-21 -10-1 C01 | |
|-------------|------------|-------|-------------------|--|-----|
| (1) ITEM | (2) Smr | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSCN | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | 1204 HYDRAULIC BRAKE SYSTEM | |
| | | | | FIG. 16 HYDRAULIC MASTER CYLINDER AND WHEEL CYCLINDER | |
| 1 | PA000 | 19207 | 8357980 | CYLINDER ASSEMBLY, H | 2 |
| 1 | PACZZ | 19207 | 8 36 542 6 | TUBE ASSEMBLY, METAL | 2 |
| 2 | PAOZZ | 63477 | 7979691 | .CAP, FILLER OPENING | 1 |
| 2 | PAOZZ | 96906 | M \$35842-12 | C LA MP, HOSE | 2 |
| 2 | PAOZZ | 80205 | NAS1611-123 | PACKING, PREFORMED | 1 |
| 3 | PAOZZ | 19207 | 7373354 | . SPACER, RING | L |
| 3 | PAOZZ | 96906 | M \$521301A20412 | HO SE, NONMETALLIC | 2 |
| 4 | PAOZZ | 06853 | 2230701 | CYLINDER ASSEMBLY, H RIGHT HAND | 1 |
| 4 | PAOZZ | 06853 | 2230700 | CYLINDER ASSEMBLY, H LEFT HAND | L |
| 5 | PAOZZ | 19207 | 10861507 | .BLEEDER VALVE,HYDRA | 1 |
| | | | | | |

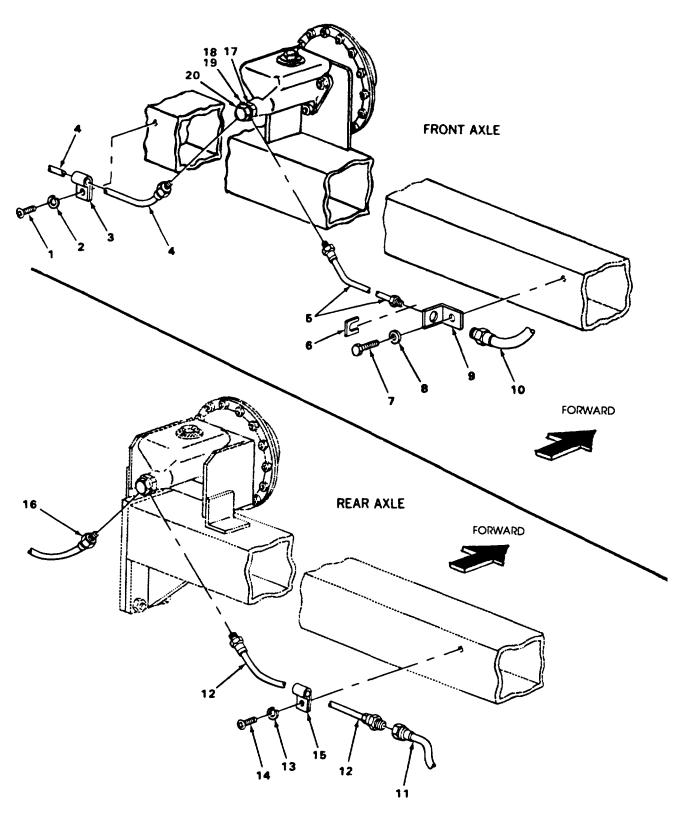
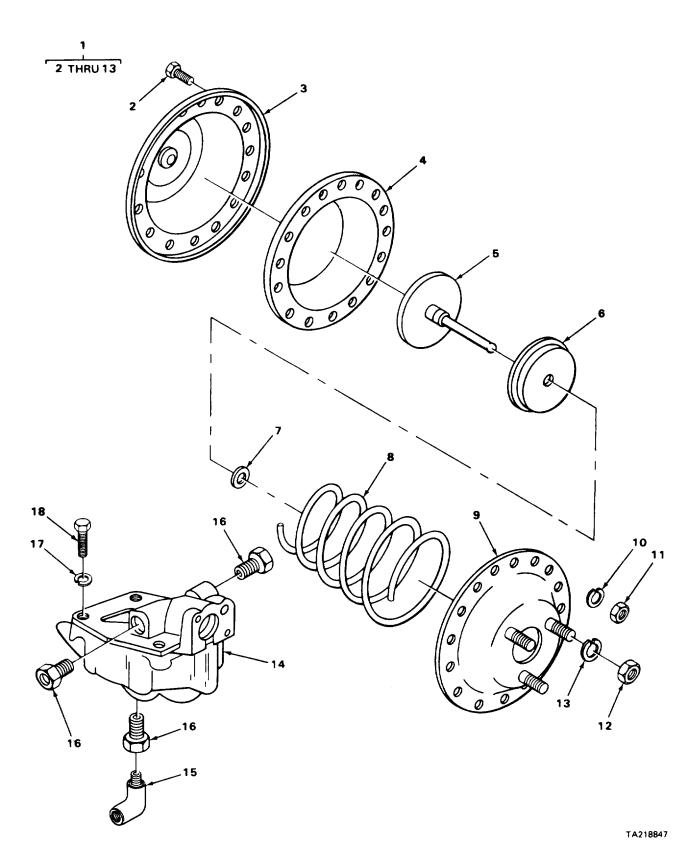


FIGURE 17. MASTER CYLINDER LINES AND FITTINGS.

| SECTIO | ON II | | TM 9-2330-285-1 | 4&P/TO 36A1 1-21-10-1 C01 | |
|-------------|------------|-------|-----------------|---|-----|
| (1) ITEM | (2) SMR | (3) | (4) PART | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | 1204 HYDRAULIC BRAKE SYSTEM | |
| | | | | FIG. 17 MASTER CYLINDER LINES AND FITTINGS | |
| 1 | PAOZZ | 96906 | M \$35206-281 | SCREW, MACHINE | 8 |
| 2 | PAOZZ | 96906 | M \$35338-44 | WA SHER, LOCK | 8 |
| 3 | PAOZZ | 96906 | M \$9025-07 | C LA MP , LOOP | 8 |
| 4 | PAOZZ | 19207 | 11612243 | TUBE ASSEMBLY, METAL FRONT, LEFT | 1 |
| 4 | PAOZZ | 19207 | 1 16 82076 | TUBE ASSEMBLY, METAL REAR, LEFT, | 1 |
| | | | | EARLY MODEL | |
| 5 | PAOZZ | 19207 | 11612242 | TUBE ASSEMBLY, METAL FRONT, RIGHT | 1 |
| 5 | PAOZZ | 19207 | 11682076 | TUBE ASSEMBLY, METAL REAR, RIGHT, | 1 |
| | | | | EARLY MODEL | |
| 6 | PAOZZ | 19207 | 7735289 | RING, RETAINING | 4 |
| 7 | PAOZZ | 96906 | M \$90725-6 | SCREW, CAP, HEXAGON H | 4 |
| 8 | PAOZZ | 88044 | AN960-416 | WA SHER, FLAT. | 4 |
| 9 | PAOZZ | 19207 | 11612209 | BRACKET, ANGLE | 4 |
| | | | 11602666 | HOSE ASSEMBLY, NONME FRONT | 2 |
| | | | 11677565 | HOSE ASSEMBLY, NONME REAR, RIGHT, | 1 |
| - | | | | LATE MODEL | |
| 12 | PAOZZ | 19207 | 1 16 82076 | TUBE ASSEMBLY, METAL REAR, RIGHT, | 1 |
| | | | | LATE MODEL | |
| 13 | PAOZZ | 96906 | M \$35338-44 | WA SHER, LOCK | 6 |
| _ | | | M \$35206-279 | SCREW, MACHINE | 6 |
| 15 | PAOZZ | 96906 | M \$9025-07 | CLAMP,LOOP | 6 |
| | | | 11648010 | HOSE ASSEMBLY, NONME REAR, LEFT OR | 1 |
| | | | | RIGHT | |
| 17 | PADZZ | 19207 | 10900442 | | 1 |
| | | | 5214539 | WA SHER , FLAT | ī |
| | | | 5 16 0 3 2 3 | WASHER, FLAT | 1 |
| | | | 8762000 | BOLT, FLUID | ī |
| | | | _ | • | |



| SECTION II | | | TM9-2330-285-1 | 4&P/TO 36A11-21-10-1 C01 | |
|------------|-------|-------|----------------|--|-----|
| (1) | (2) | (3) | (4) | (5) | (6) |
| IT EM | SMR | | PART | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | QTY |
| | | | | 1208 AIR BRAKE SYSTEM | |
| | | | | FIG. 18 AIR CHAMBER ASSEMBLY AND EMERGENCY RELIEF VALVE | |
| l | PAOFF | 19207 | 8357981 | CHAMBER, AIR BRAKE FRONT AND REAR | 2 |
| 2 | PAFZZ | 96906 | N S90726-33 | .BOLT, MACHINE | 16 |
| 3 | PAFZZ | 97554 | 7979602 | .COVER ASSEMBLY | 1 |
| 4 | PAFZZ | 19207 | 7377783 | •DIAPHRAGM,CHAMBER,B | 1 |
| 5 | PAFZZ | 19207 | 7979599 | .ROD,CHAMBER ASSEMBL | 1 |
| 6 | PAFZZ | 19207 | 7979610 | .RETAINER, HELICAL CO | 1 |
| 7 | PAFZZ | 96906 | M S28775-012 | .PACKING, PREFORMED | 1 |
| | | | 7979608 | .SPRING, HELICAL, COMP | l |
| 9 | PAFZZ | 19207 | 7979605 | BODY ASSEMBLY, CHAMB | l |
| 10 | PAFZZ | 96906 | M \$35338-45 | . WA SHER, LOCK | 16 |
| 11 | PAFZZ | 96906 | M \$51968-5 | .NUT, PLAIN, HEXAGON | 16 |
| 12 | PAFZZ | 96906 | M \$51967-8 | .NUT, PLAIN, HEXAGON | 3 |
| 13 | PAFZZ | 96906 | M \$35338-46 | . WA SHER , LOCK | 3 |
| 14 | PAOZZ | 96906 | M \$53004-2 | PARTS KIT, RELAY VAL | 1 |
| 15 | PAOZZ | 19207 | 10900257 | ELBOW, PIPE RELAY VALVE AND REAR | 3 |
| _ | | | | TUBE TO AIR CHAMBER | |
| 16 | PAOZZ | 19204 | 7350907 | BUSHING, PIPE | 3 |
| 17 | PAOZZ | 96906 | M \$35338-45 | WA SHER, LOC K | 3 |
| _ | | | M \$90726-34 | BOL T, MACHI NE | 3 |

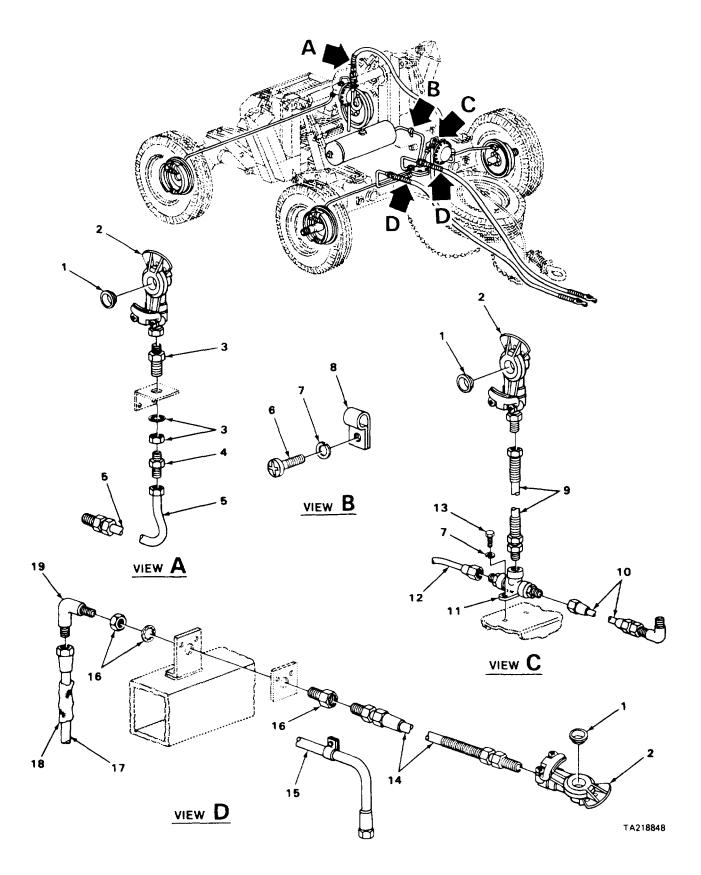
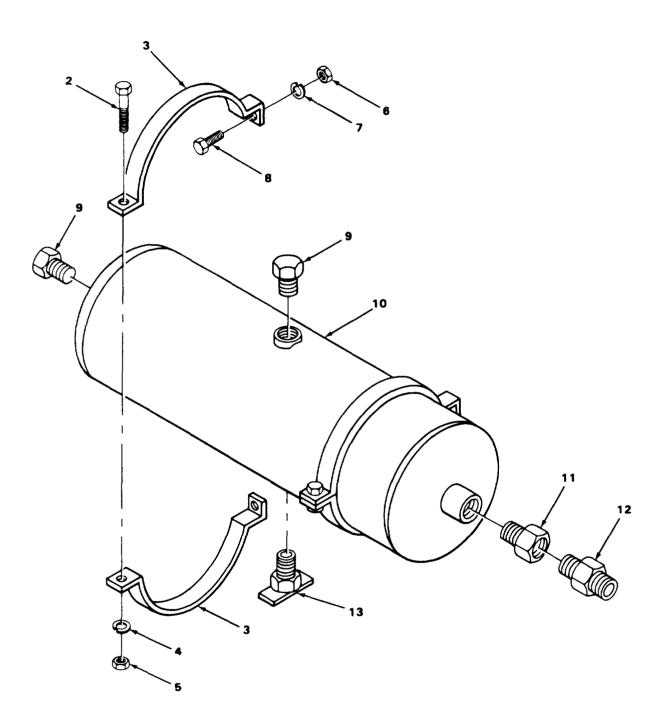


FIGURE 19. AIR TANK LINES AND FITTINGS.

| SECTION II | | TM 9-2330-285- | 14&P/TO 36A11-21-10-1 C01 | | |
|-------------|------------|----------------|---------------------------|--|-----|
| (1) ITEM | (2) Smr | (3) | (4) PART | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | 1208 AIR BRAKE SYSTEM FIG.19. AIR TANK LINES AND FITTINGS | |
| 1 | PAOZZ | 96906 | M S35748-1 | PACKING, PREFORMED | 4 |
| 2 | PAOZZ | 969 06 | M S35746-1 | COUPLING HALF, QUICK | 4 |
| 3 | PAOZZ | 19207 | 7536271 | REDUCER, PIPE REAR | 1 |
| 4 | PAOZZ | 19207 | 11602478 | NIPPLE, PIPE | 1 |
| 5 | PAOZZ | 19207 | 11682089 | HOSE ASSEMBLY, NONME | 1 |
| 6 | PAOZZ | 9 6906 | M \$35206-279 | SCREW, MACHINE | 1 |
| 7 | PAOZZ | 9 6906 | M \$35338-44 | WA SHER, LOC K | 3 |
| 8 | PAOZZ | 96906 | M S9025-07 | CLAMP,LOOP | 1 |
| 9 | PAOZZ | 19207 | 11612253-2 | HOSE ASSEMBLY, NONME FRONT | 1 |
| 10 | PAOZZ | 19207 | 11612190 | TUBE ASSEMBLY, METAL | 1 |
| 11 | PAOZZ | 19207 | 11602348 | TEE,PIPE FRONT | 1 |
| 12 | XBOZZ | 19207 | 11612192 | TUBE ASSEMBLY | 1 |
| 13 | PAOZZ | 96906 | M S90725-6 | SCREW, CAP, HEXAGON H | 2 |
| 14 | PAOZZ | 19207 | 11612253-1 | HOSE ASSEMBLY, NONME | 2 |
| 15 | PAOZZ | 24835 | 6 96 7 006 - 009 | HOSE ASSEMBLY, NONME | 1 |
| 16 | PAOZZ | 19207 | 8328782 | COUPLING, PIPE | 2 |
| 17 | MOOZZ | 19207 | 11612241 | TUBE ASSEMBLY FRONT, EMERGENCY, | 1 |
| | | | | MAKE FROM P/N 8689208 (19207) | |
| 17 | MOOZ Z | 19207 | 11612193 | TUBE ASSEMBLY FRONT, SERVICE, MAKE FROM P/N 8689208 (19207) | 1 |
| 18 | PA077 | 97030 | LOOM 3/8 ID | CONDUIT, NONMETALLIC | 2 |
| | | | | ELBOW, PIPE TO TUBE. | 2 |





| SECTION II | | | TM 9-2330-285-1 | 4&P/TO 36A11-21-10-1 C01 | |
|-------------|------------|-------|-----------------|---|-----|
| (1) ITEM | (2) SMR | (3) | (4) PAR T | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES (UDC) | QTY |
| | | | | 1208 AIR BRAKE SYSTEM FIG. 20 AIR TANK | |
| 1 | PFOZZ | 19207 | 7014963 | CLAMP,LOOP | 2 |
| 2 | PAOZZ | 06853 | 214884 | . SCREW, CAP, HEXAGON H | ī |
| 3 | PAOZZ | 06853 | 2 02 5 8 6 | BRACKET, SPECIAL | 2 |
| 4 | PAOZZ | 23382 | 4303 | • WA SHER ,LOCK ••••••••••••••• | 1 |
| 5 | PAOZZ | 06853 | 203888 | •NUT, PLAIN, HEXAGON | 1 |
| 6 | PAOZZ | 96906 | MS51968-8 | NUT, PLAIN, HEXAGON | 4 |
| 7 | PAOZZ | 96906 | M \$35338-46 | WA SHER, LOC K | 4 |
| 8 | PAOZZ | 96906 | MS18154-60 | SCREW, CAP, HEXAGON H | 4 |
| 9 | PAOZZ | 96906 | MS20913-4S | PLUG, PIPE | 2 |
| 10 | PAOZZ | 19207 | 11602362 | TANK, PRESSURE | 1 |
| 11 | PAOZZ | 19207 | 8743065 | BUSHING , PIPE | 1 |
| 12 | PAOZZ | 19207 | 11602478 | NIPPLE, PIPE | 1 |
| 13 | PAOZZ | 96906 | M \$35782-3 | COCK, DRAIN | 1 |

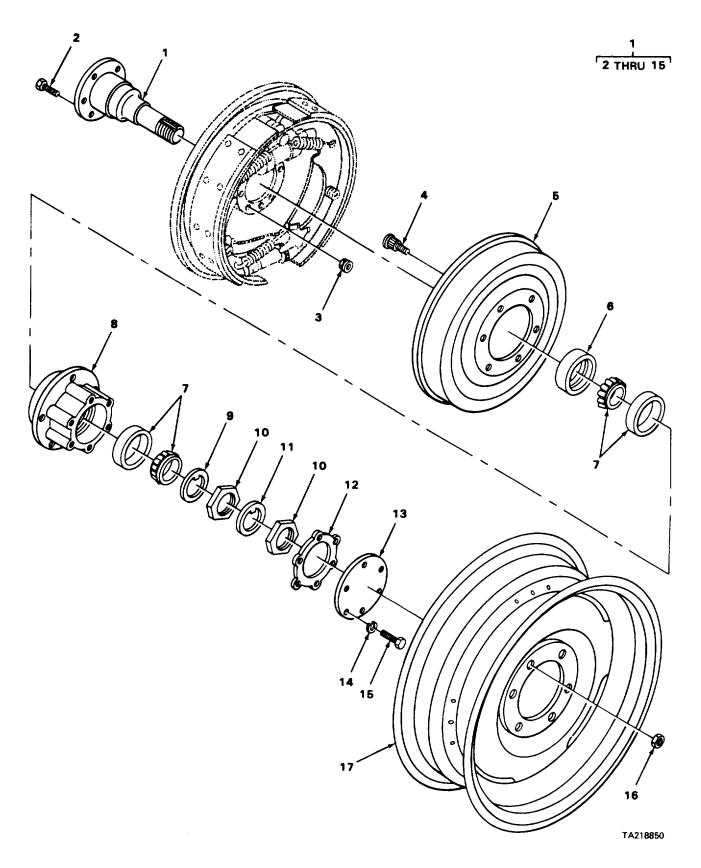


FIGURE 21. WHEEL AND HUB ASSEMBLY.

| SECTION II | | | TM9-2330-285-14 | I&P/T0 36A11-21-10-1 C01 | |
|-------------|------------|-------|-----------------|--|-----|
| (1) ITEM | (2) SMR | (3) | (4) PAR T | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | QTY |
| | | | | GROUP 13 WHEELS, HUBS AND DRUMS 1311 WHEEL, HUB AND DRUM FIG. WHEEL AND HUB ASSEMBLY | |
| 1 | PAOZZ | 19207 | 11612280-2 | HUB AND SPINDLE ASS LEFT REAR | L |
| 1 | PAOZZ | 19207 | 11612280-1 | HUB AND SPINDLE ASS RIGHT REAR | 1 |
| 1 | PAOZZ | 19207 | 11612281-1 | HUB AND KNUCKLE RH RIGHT FRONT | 1 |
| 1 | PAOZZ | 19207 | 11612281-2 | HUB, WHEEL, VEHICULAR LEFT FRONT | 1 |
| 2 | PAOZZ | 96906 | MS18154-60 | SCREW, CAP, HEXAGON H | 6 |
| 3 | PAOZZ | 96906 | M S51922-21 | .NUT, SELF-LOCKING, HE | 6 |
| 4 | PAOZZ | 19207 | 7375863 | .BOLT, RIBBED NECK LEFT | 5 |
| 4 | PAOZZ | 19207 | 7375862 | .BOLT, RIBBED NECK RIGHT | 5 |
| 5 | PAOFF | 99343 | 642775 | BRAKE DRUM | 1 |
| 6 | PAOZZ | 96906 | M S5 1920-21-2 | • SEAL, PLAIN ENCASED • • • • • • • • • • • • • • • • • • • | 1 |
| 7 | PAOZZ | 96906 | MS19081-58 | BEARING, ROLLER, TAPE | 2 |
| 8 | PAOZZ | 19207 | 7331739 | • HUB • B OD Y• • • • • • • • • • • • • • • • • • • | 1 |
| 9 | PAOZZ | 19207 | 7696520 | . WA SHER , KEY | 1 |
| 10 | PAOZZ | 19207 | 7371106 | .NUT,PLAIN,HEXAGON | 2 |
| 11 | PAOZZ | 19207 | 7696521 | • WA SHER , KEY | 1 |
| 12 | PAOZZ | 19207 | 7371109 | •GA SKE T ••••••••••••••••••••••••••••••••••• | 1 |
| 13 | PAOZZ | 19206 | 7735821 | .COVER, ACCESS | 1 |
| 14 | PAOZZ | 96906 | M \$35338-46 | . WA SHER ,LOCK | 6 |
| 15 | PAOZZ | 96906 | M S18154-58 | • SCREW, CAP, HEXAGON H | 6 |
| 16 | PAOZZ | 33116 | X 1023R | NUT, SELF-LOCKING, CO RIGHT SIDE | 10 |
| 16 | PAOZZ | 33116 | 20441 | NUT, SELF-LOCKING, CO LEFT SIDE | 10 |
| 17 | PAOZZ | 22852 | 934490 | WHEEL, PNEUMATIC TIR (OLD MODELS-84 AND EARLIER) | 5 |
| 17 | PAOZZ | 40121 | 081387-12 | WHEEL, PNEUMATIC TIR (NEW MODELS-85 AND LATER) | 5 |

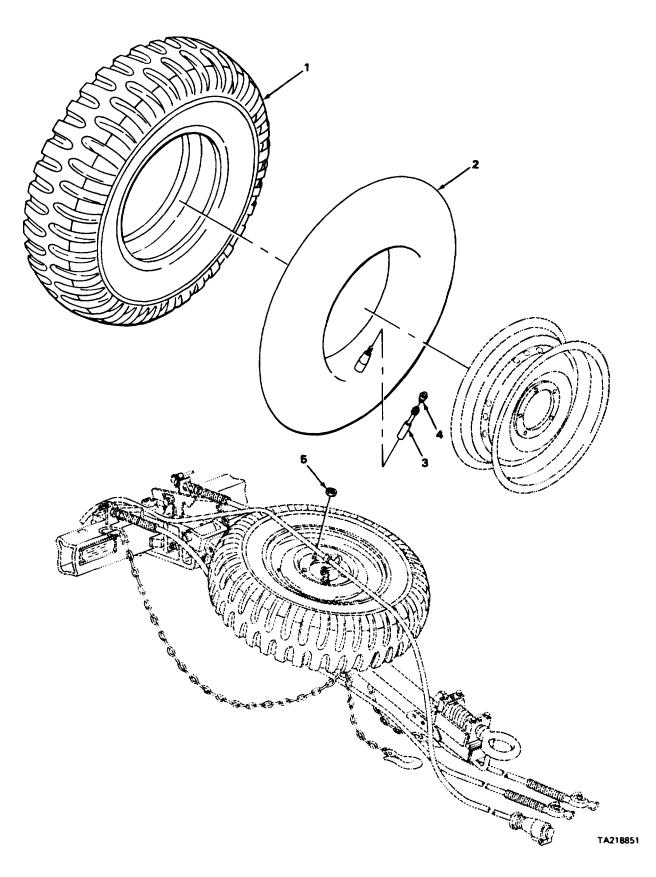


FIGURE 22. TIRES AND TUBES.

| SECTIO | on II | | TM9-2330-285-14 | 4&P/TO 38A11-21-10-1 C01 | |
|--------|-------|-------|------------------|---------------------------------------|-----|
| (1) | (2) | (3) | (4) | (5) | (6) |
| ITEM | SMR | | PAR T | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | QTY |
| | | | | 1313 TIRES AND TUBES | |
| | | | | FIG. 22 TIRES AND TUBES | |
| 1 | PAOFF | 73842 | 120-099-620 | TIRE, PNEUMATIC (MODELS 1985 AND | 5 |
| | | | | LATER) | _ |
| 1 | PAOFF | 81348 | | TIRE, PNEUMATIC, 7.00 (MODELS 1984 | 5 |
| | | | | AND EARLIER) | - |
| 2 | PAOZZ | 81348 | | INNER TUBE, PNEUMATI | 5 |
| | | | 0-16/TR15CW/0FFC | | |
| 3 | PAOZZ | 96906 | MS51377-1 | VALVE CORE | 5 |
| 4 | PAOZZ | 73842 | TRVC2 | CAP, PNEUMATIC VALVE | 5 |
| 5 | PAOZZ | 96906 | MS51984-2 | NUT, PLAIN, CONE SEAT SPARE WHEEL | 3 |
| | | | | MOUNTI NG | |

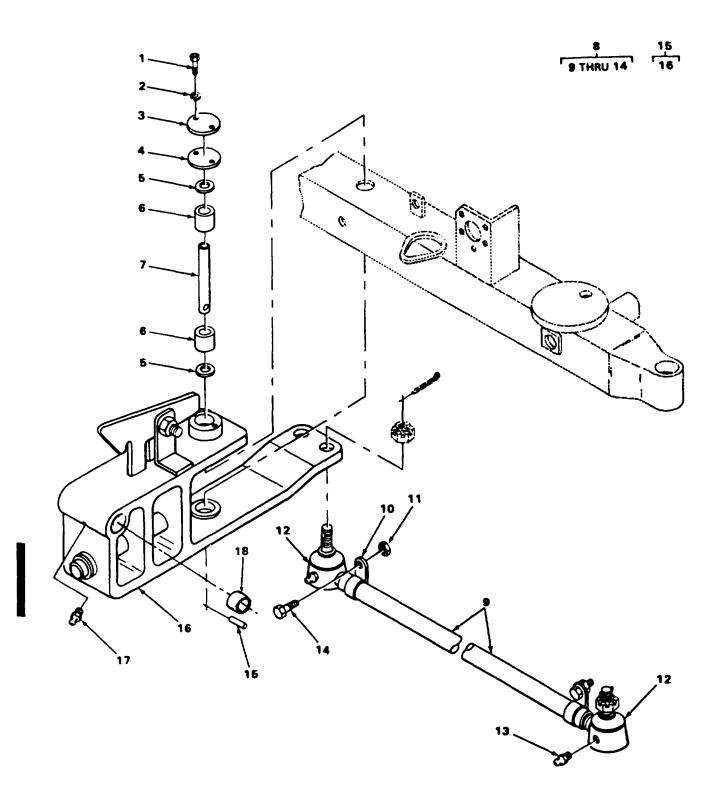


FIGURE 23. STEERING ARM AND TIE ROD ASSEMBLY.

| ON II | | TM9-2330-285-1 | 4&P/TO 36A11-21-10-1 C01 | |
|--|--|--|--|--|
| (2) SMR | (3) | (4) Part | (5) | (6) |
| CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | GROUP 14 STEERING 1401 MECHANICAL STEERING GEAR FIG. 23 STEERING ARM AND TIE ROD ASSEMBLY | |
| PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ | 96906 19207 19207 19207 19207 19207 | M \$35338-42 11612331 11612332 11612334 11612110-1 11612113 | WA SHER, LOCK. SPACER, PLATE. GA SKET. BEARING, WA SHER, THRU. BEARING, SLEEVE. PIN, STRAIGHT, HEADLE. | 2 2 1 2 2 1 2 1 2 |
| | | | TUBE | 1 |
| | | | CLAMP,LOOP | 2 |
| | | | .TIE ROD END, STEERIN TIE ROD, RIGHT | 2 1 |
| PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ | 96906 96906 80205 19207 96906 | M S15003-1 M S18153-63 NA S561P6-32 12250163 M S15001-1 | TIE ROD END, STEERIN LEFT HAND. FITTING, LUBRICATION. SCREW, CAP, HEXAGON H. PIN, SPRING. ARM, STEERING GEAR. FITTING, LUBRICATION. BUSHING. | 1 2 1 1 1 |
| | SMR CODE PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ PACZZ | (2) (3) SMR CODE FSCM CODE FSCM PA0ZZ 96906 PA0ZZ 19207 PA0ZZ 96906 PACZZ 96906 PA0ZZ 96906 PA0ZZ 96906 | (2) (3) (4) SMR PART CODE FSCM NUMBER PADZZ 96906 M S16997-43 PADZZ 96906 M S35338-42 PADZZ 19207 11612331 PADZZ 19207 11612332 | (2) (3) (4) (5) SMR PART DESCRIPTION AND USABLE ON CODES(UDC) GROUP 14 STEERING 1401 MECHANICAL STEERING GEAR FIG. 23 STEERING ARM AND TIE ROD ASSEMBLY PADZZ 96906 MS16997-43 SCREW, CAP, SOCKET HE. PADZZ 19207 11612331 SPACER, PLATE. PADZZ 19207 11612332 GASKET. PADZZ 19207 11612334 BEARING, MASHER, THRU. PADZZ 19207 1161210-1 BEARING, SLEEVE. PADZZ 19207 11612234 CLAMP, LOOP. PADZZ 19207 1161224 CLAMP, LOOP. YAFZZ 81285 ES150R TUBE. PADZZ 96906 MS15003-1 .TIE ROD END, STEERIN TIE ROD, RIGHT PADZZ 96906 MS18153-63 .SCREW, CAP, HEXAGON H. PADZZ 19207 1250163 ARKER, LOCK. |

SECTION II

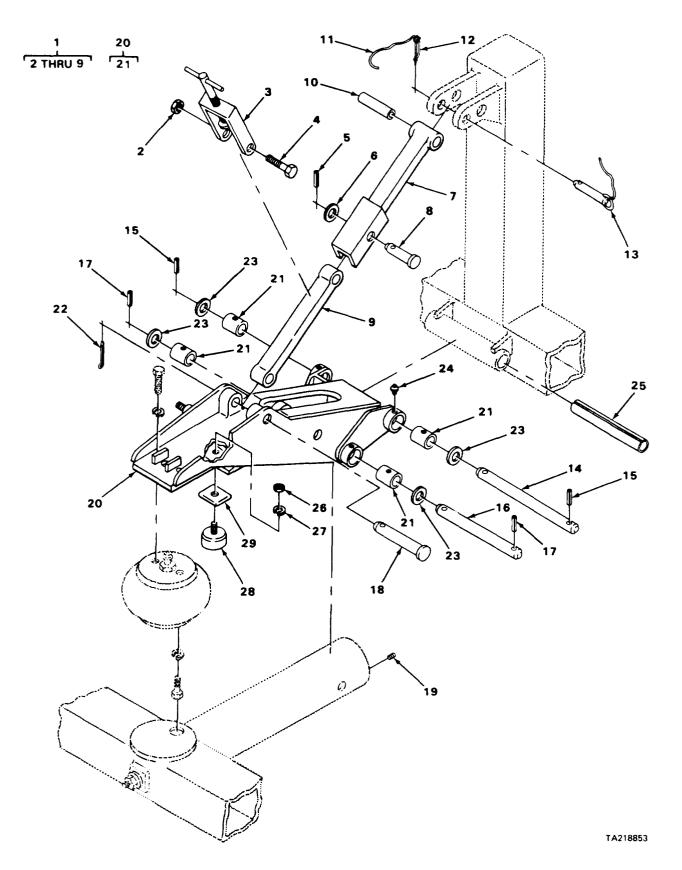


FIGURE 24. STRUT AND ROCKER ARM ASSEMBLY.

| SECTIO | on II | | TM9-2330-285 | 5-14&P/TO 36A11-21-10-1 C01 | |
|--------|-------|---------------|--------------|--|----------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| IT EM | SMR | | PART | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 15 FRAME AND TOWING ATTACHMENTS | |
| | | | | 1501 FRAME ASSEMBLY | |
| | | | | FIG. 24 STRUT AND ROCK ARM ASSEMBLY | |
| 1 | PAOZZ | 19207 | 11652336 | STRUT ASSEMBLY, ROAD | 4 |
| 2 | PAOZZ | 96906 | MS21044-N6 | .NUT, SELF-LOCKING, HE | L |
| 3 | PAOZZ | 19207 | 11652332 | BRACKET, DOUBLE ANGL | 1 |
| 4 | PAOZZ | 96906 | M S90727-70 | • SCREW, CAP, HEXAGON H | 1 |
| 5 | XBOZZ | 9 6906 | M S9048-172 | .PIN, SPRING | 1 |
| 6 | PAOZZ | 88044 | AN960-1216 | .WA SHER, FLAT | 1 |
| 7 | XBOZZ | 19207 | 11612230 | BRACE UPPER STRUT | 1 |
| 8 | PAOZZ | 19207 | 11602350-1 | •PIN,STRAIGHT,HEADED••••••••••• | 1 |
| 9 | XBOZZ | 19207 | 11612228 | BRACE LOWER STRUT | 1 |
| 10 | PAOZZ | 19207 | 8537648 | SWAGING SLEEVE,WIRE | 6 |
| 11 | XBOZZ | 81349 | MIL-W-1511A | CABLE | 2 |
| 12 | PAOZZ | 19207 | 11636686-1 | PIN, RETAINING | 2 |
| | | | 11612191 | PIN,STRAIGHT,HEADLE | 4 |
| | | | 11612123-2 | PIN, STRAIGHT, HEADLE | 4 |
| 15 | PAOZZ | 96906 | M \$9048-143 | PIN, SPRING | 8 |
| | | | | | |
| | - | | | | 4 |
| | | | 11602350-2 | PIN, STRAIGHT, HEADED | 4 |
| | | | 11602521 | SETSCREW. | . |
| 20 | PAOZZ | 19207 | 11612271-2 | ARM,CONTROL,VEHICUL RIGHT FRONT | 2 |
| | | | | AND LEFT REAR. | 2 |
| 20 | PAOZZ | 19207 | 1161227-1 | ARM, CONTROL, VEHICUL LEFT FRONT AND | 2 |
| | | | | RIGHT REAR | 8 |
| | | | 11647935 | BUSHING, SLEEVE | 4 |
| | | | MS24665-357 | PIN,COTTER | 8 |
| | | | AN960-1416 | WA SHER, FLAT | 16 |
| | | | M \$35755-1 | BUSHING, SLEEVE | 4 |
| | | | 11612307 | NUT, PLAIN, HEXAGON | 4 |
| | | | M S51968-8 | WA SHER, LOC K | 4 |
| | | | M \$35338-46 | BUSHING , RUBBER | 4 |
| | | | 11602364 | SPACER, PLATE | 4 |
| 29 | PAULZ | 19207 | 11612202 | JFAUEN FFLA IE *********************************** | - |

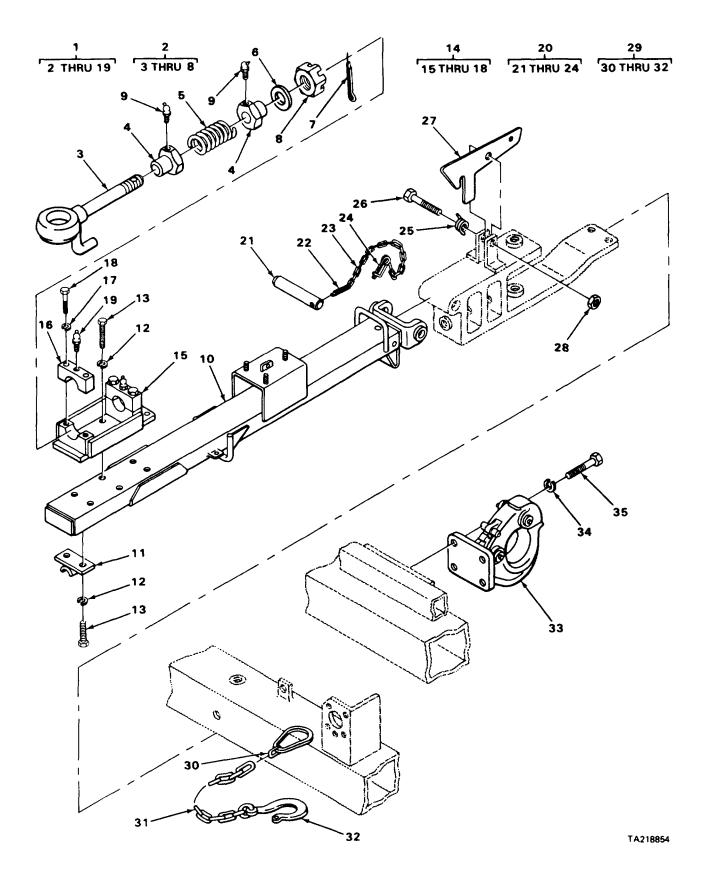


FIGURE 25. TOWBAR ASSEMBLY AND PINTLE.

| SECTIO | N II | | TM 9-2330-285-1 | 4&P/TO 36A11-21-10-1 C01 | |
|--------|-------|-------|------------------|--|-----|
| (1) | (2) | (3) | (4) | (5) | (6) |
| ITEM | SMR | | PAR T | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | QTY |
| | | | | | |
| | | | | 1503 TOWING ATTACHMENTS | |
| | | | | FIG. 25 TOMBAR ASSEMBLY AND PINTLE | |
| 1 | PA077 | 19207 | 12250162 | TOWBAR, MOTOR VEHICL | 1 |
| | | | 11612317 | .COUPLER, DRAWBAR, RIN | i |
| | | | 11612316 | . LUNETTE | ĩ |
| | | | 11612318 | ••COLLAR••••••••••••••••••••••••••••••••••• | 2 |
| | | | 11612320 | •• SPRING, HELICAL, COMP ••••••••• | ī |
| | | | M S27183-31 | • WA SHER, FLAT. | ī |
| | | | M \$24665-628 | ••PIN,COTTER | ī |
| | | | M \$35692-105 | NUT, PLAIN, SLOTTED, H | ī |
| | | | M S15001-1 | .FITTING,LUBRICATION | 2 |
| | · — | | 12250150 | . TO WBAR, MOTOR VEHICL | ī |
| | | | 11612323 | • BR AC KE T • • • • • • • • • • • • • • • • • • | ī |
| | | | MS35338-48 | WA SHER ,LOCK. | 8 |
| | | | MS90727-111 | SCREW, CAP, HEXAGON H | 8 |
| | | | 11612313 | BRACKET ASSY | 1 |
| | | | 11612312-2 | BLOCK, LUNETTE MOUNT | 1 |
| | | | 1 16 12 31 2 - 1 | BLOCK, LUNETTE MOUNT | 2 |
| | | | M \$35338-48 | • WASHER, LOCK • • • • • • • • • • • • • • • • • • • | 4 |
| | | | MS90727-119 | - SCREW, CAP, HEXAGON H | 4 |
| | | | MS15001-1 | .FITTING,LUBRICATION | 2 |
| | | | 11612194-2 | CHAIN ASSEMBLY, TOWB | 1 |
| | | | 12250089-1 | .PIN, STRAIGHT, HDLESS | 1 |
| | | | M S24665-624 | •PIN,COTTER. | ī |
| | | | | .LINK, CHAIN, CONNECTI | 1 |
| | | | 64 | | |
| 24 | XBOZZ | 19207 | 1 16 36686-2 | .HAIRPIN | 1 |
| | | | 11612195 | SPRING, HELICAL, TORS | 1 |
| 26 | PAOZZ | 96906 | MS90727-114 | SCREW, CAP, HEXAGON H | 1 |
| 27 | PAOZZ | 19207 | 11612244 | RING,LOCK ASSEMBLY | 1 |
| 28 | PAOZZ | 96906 | M S21044N 8 | NUT, SELF-LOCKING, HE | 1 |
| 29 | PAOZZ | 24835 | 6600057 | CHAIN ASSEMBLY, SING | 2 |
| 30 | XDOZZ | 81348 | RR-C-271-2TYPEII | .LINK, CHAIN, CONNECTI | 2 |
| | | | 3/8 | | |
| 31 | XAOZZ | 81349 | RRC 281AGRCCL 3 | •CHAIN•••• | 1 |
| | | | 204-070-481-1 | •HOOK,HOIST | 2 |
| | | | 7073209 | PINTLE ASSEMBLY, TOW | 1 |
| | | | M \$35338-48 | WA SHER, LOCK | 4 |
| 35 | PAOZZ | 96906 | MS90726-113 | SCREW, CAP, HEXAGON H | 4 |
| | | | | | |

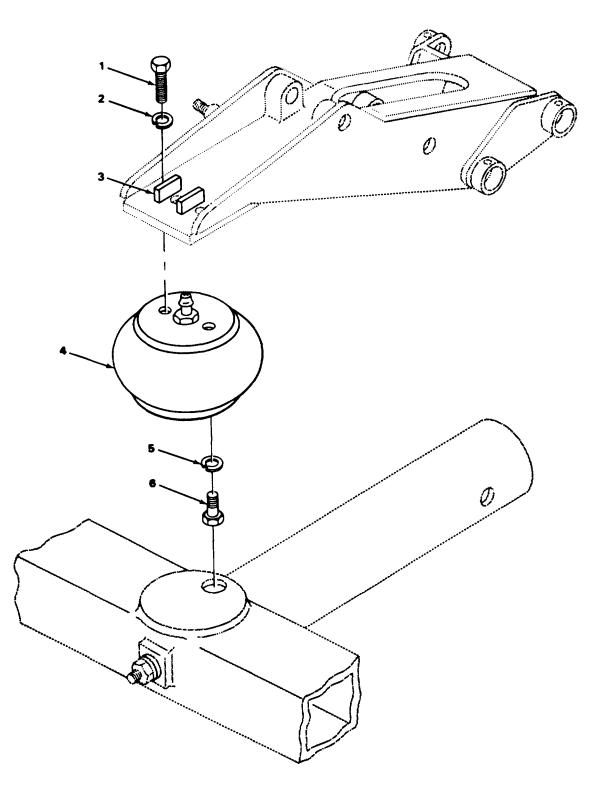


FIGURE 26. SPRING ASSEMBLY.

| SECTIO | DN II | | TM 9-2330-285-1 | 4&P/TO 36A11-21-10-1 C01 | |
|-------------|------------|-------|-----------------|---|-----|
| (1) ITEM | (2) Smr | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | GROUP 16 SPRINGS AND SHOCK ABSORBERS 1601 Springs FIG. 26 Spring Assembly | |
| 1 | PAOZZ | 96906 | MS18154-60 | SCREW, CAP, HEXAGON H | 8 |
| 2 | PAOZZ | 96906 | M \$35338-46 | WA SHER , LOC K | 8 |
| 3 | MOOZZ | 19207 | 12313038 | GUARD, AIR VALVE MAKE FROM P/N ASTM | 2 |
| | | | | A569 (81346) | |
| 4 | PAOZZ | 19207 | 11602365 | CUSHION AIR VEHICUL | 4 |
| 5 | PADZZ | 96906 | M \$35338-46 | WA SHER, LOC K | 4 |
| 6 | PAOZZ | 96906 | M \$16997-95 | SCREW, CAP, SOCKET HE | 4 |
| | | | | END OF FIGURE | |

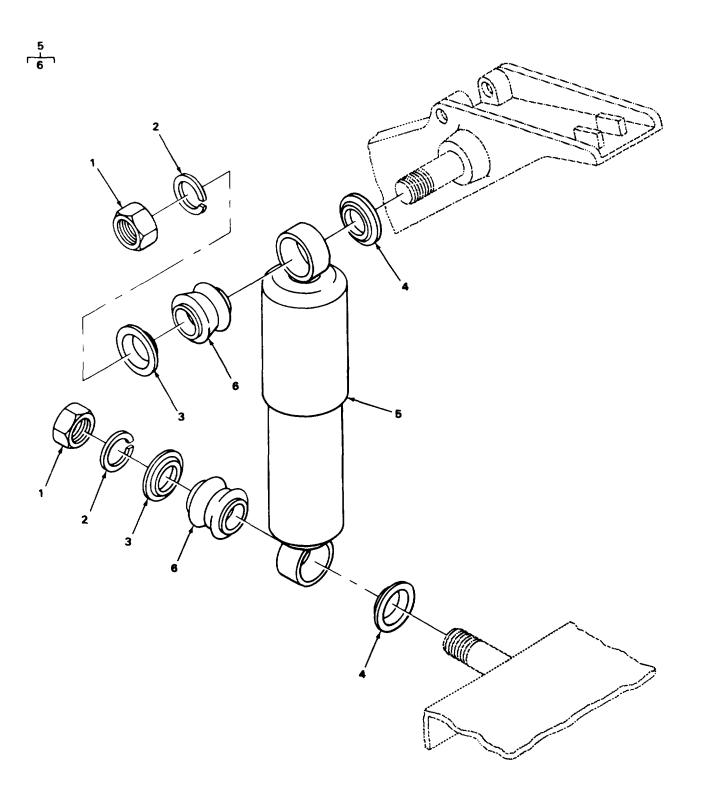


FIGURE 27. SHOCK ABSORBER,

| SECTIO | NI | | TM 9-2330-28 | 5-14&P/TO 36A11-21-10-1 C01 | |
|--------|-------|-------|--------------|--------------------------------------|-----|
| (1) | (2) | (3) | (4) | (5) | (6) |
| IT EM | SMR | | PAR T | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | 1604 SHOCK ABSORBER | |
| | | | | FIG. 27 SHOCK ABSORBER | |
| 1 | PAOZZ | 96906 | MS51968-14 | NUT,PLAIN,HEXAGON | 8 |
| 2 | PAOZZ | 96906 | M \$35338-48 | WA SHER, LOC K | 8 |
| 3 | PAOZZ | 76110 | 401265 | WA SHER, SADDLE | 8 |
| 4 | PAOZZ | 19207 | 7059149 | WASHER, SPRING TENSI | 8 |
| 5 | PAOZZ | 76110 | 57091 | SHOCK ABSORBER, DIRE | 4 |
| - | | | 11647976 | .BUSHING, RUBBER | 8 |
| | | | | | |

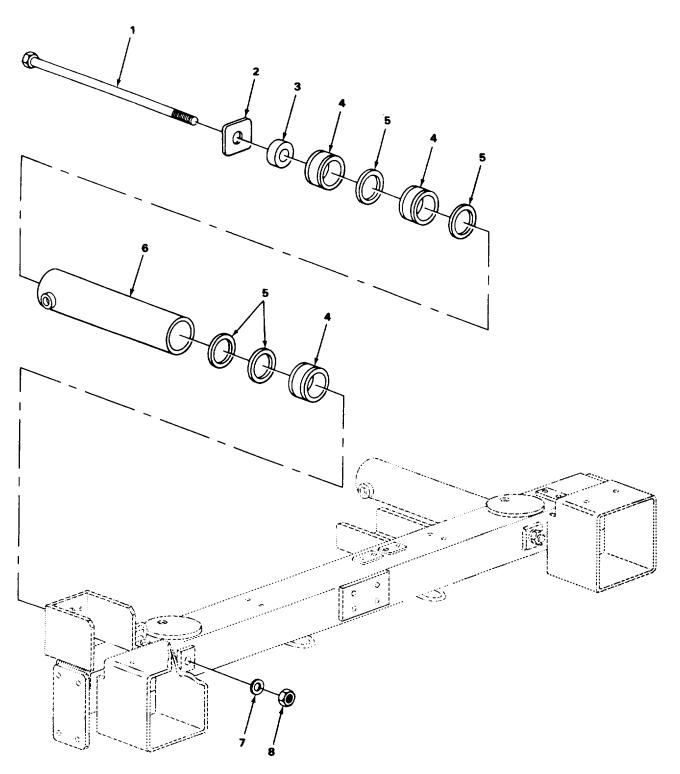


FIGURE 28. RADIUS TUBE.

| SECTIO | N II | | TM 9-2330-2 | 85-14&P/TO 36A11-21-10-1 C01 | |
|-------------|------------|-------|-------------|--------------------------------------|-----|
| (1) ITEM | (2) Smr | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | 1605 RADIUS TUBE | |
| | | | | FIG. 28 RADIUS TUBE | |
| 1 | PAOZZ | 19207 | 11682097 | BOLT, MACHI NE | 4 |
| 2 | XDOZZ | 19207 | 11612108 | WA SHER, FLAT | - 4 |
| 3 | PAOZZ | 19207 | 11652340 | BUSHING, RUBBER | 4 |
| 4 | PACZZ | 19207 | 11602349 | MOUNT, RESILIENT | 12 |
| 5 | PACZZ | 19207 | 11612143 | WA SHER, FLAT | 16 |
| - | | | 11612221 | ARM, VEHICULAR. | 4 |
| 7 | PAOZZ | 19207 | 11647936 | WA SHER, SPRING TENSI | 4 |
| • | | | MS21044N10 | NUT.SELF-LOCKING.HE | 4 |

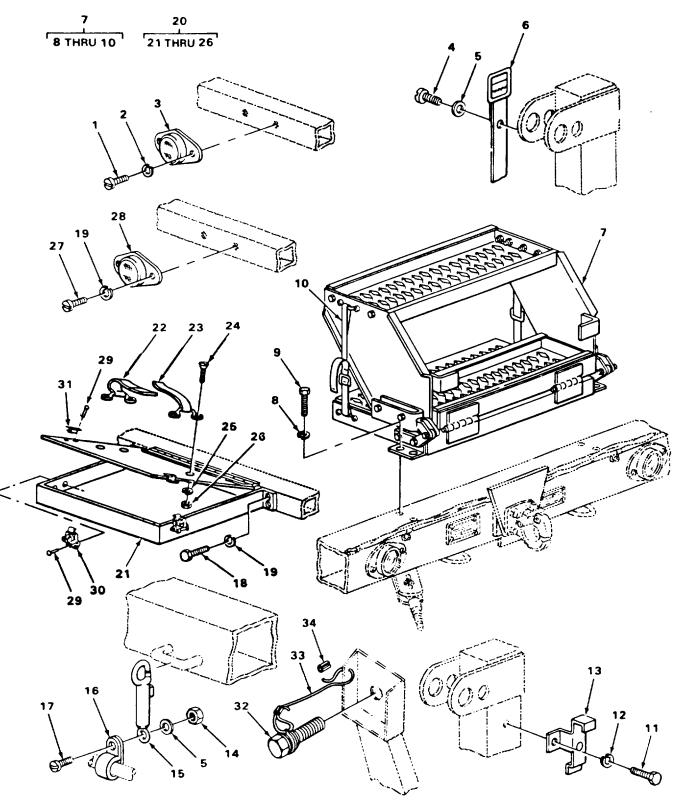


FIGURE 29. ACCESSORY ITEMS.

| SECTIO | ON II | | TM 9-2330-285-1 | 4&P/TO 36A11-21-10-1 C01 | |
|--------|-------|-------|-----------------|--|-----|
| (1) | (2) | (3) | (4) | (5) | (6) |
| ITEM | SMR | | PART | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | QTY |
| | | | | GROUP 22 BODY AND CHASSIS ACCESSORY ITEMS | |
| | | | | 2202 ACCESSORY ITEMS | |
| | | | | FIG. 29 ACCESSORY ITEMS | |
| | | | | HO. 25 ACCECCORT TIEMO | |
| 1 | PAOZZ | 96906 | MS35206-279 | SCREW, MACHINE | 4 |
| 2 | PAOZZ | 96906 | MS35338-44 | WA SHER, LOCK | 4 |
| 3 | PAOZZ | 96906 | M \$35387-1 | REFLECTOR, INDICATIN REAR, RED | 2 |
| 4 | PAOZZ | 96906 | M \$35206-281 | SCREW, MACHINE | 1 |
| | | | AN960-416 | WA SHER, FLAT | 1 |
| 6 | PAOZZ | 19207 | 11612262 | STR AP, WEBBING | 1 |
| 7 | PAOZZ | 19207 | 12250480 | STEP AND PLATFORM A | 1 |
| 8 | PAOZZ | 96906 | M \$35338-45 | • WA SHER , LOC K | 4 |
| 9 | PAOZZ | 96906 | M S90727-32 | .BOLT, MACHINE | 4 |
| 10 | PAOZZ | 19207 | 11682039 | • STRAP, WEBBING | 2 |
| 11 | PAOZZ | 96906 | M \$90727-32 | BOLT, MACHI NE | l |
| 12 | PAOZZ | 96906 | M \$35338-45 | WA SHER, LOCK | 1 |
| 13 | PAOZZ | 19207 | 7979851 | BRACKET, PIPE | 1 |
| 14 | PAOZZ | 96906 | MS21044-N4 | NUT, SELF-LOCKING, HE | 3 |
| 15 | XBOZZ | 81349 | MILH15021 | SNAP,HOOK | 3 |
| | | | M S21333-105 | CLAMP,LOOP | 3 |
| 17 | PAOZZ | 96906 | M \$35207-281 | SCREW, MACHINE | 3 |
| 18 | PAOZZ | 96906 | M S90725-6 | SCREW, CAP, HEXAGON H | 6 |
| 19 | PAOZZ | 96906 | M \$35338-44 | WA SHER, LOC K | 10 |
| 20 | PFOZZ | 19207 | 11612290 | BOX, ACCESSORIES STO | 1 |
| 21 | PAOZZ | 19207 | 1 16 1 2 2 5 1 | . TOOL BOX, VEHICULAR | 1 |
| | | | 11612276 | • STRAP, WEBBING | 1 |
| | | | 11612289 | • STRAP, WEBBING | 1 |
| 24 | PAOZZ | 96906 | MS35190-273 | • SC RE W, MACHINE • • • • • • • • • • • • • • • • • • • | 4 |
| | | | MS35338-43 | • WA SHER , LOC K | 4 |
| | | | MS35649-202 | .NUT, PLAIN, HEXAGON | 4 |
| | | | MS35206-281 | SCREW, MACHINE | 4 |
| | | | M \$35387-2 | REFLECTOR, INDICATIN FRONT, AMBER | 2 |
| - | | | M S20470A4-5 | RIVET, SOLID | 6 |
| | | | B 1900-377 | CATCH, CLAMPING | 2 |
| | | | 8-1900-613 | CATCH, CLAMPING | 2 |
| | | | 11612169 | BINDER, STABILIZER R | 2 |
| | | | MILW1511A | CABLE, WIRE BINDER BOLT RETAINING | 4 |
| 34 | PAOZZ | 19207 | 8 53 7648 | SWAGING SLEEVE, WIRE ROPE | 8 |
| | | | | | |

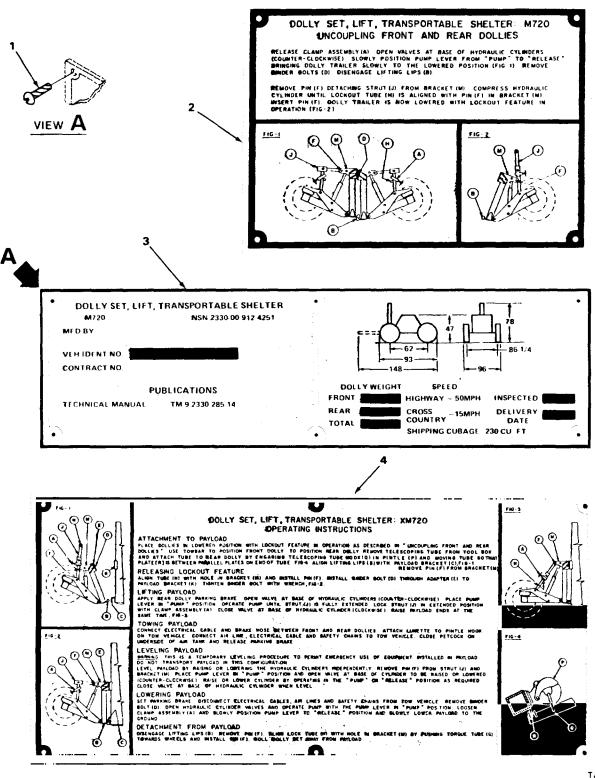


FIGURE 30. DATA PLATES.

| SECTIO | on II | | TM 9-2330-285 | 5-14&P/TO 36A11-21-10-1 C01 | |
|--------|-------|-------|---------------|--------------------------------------|-----|
| (1) | (2) | (3) | (4) | (5) | (6) |
| ITEM | SMR | | PAR T | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | 2210 DATA PLATES | |
| | | | | FIG. 30 DATA PLATES | |
| 1 | PAOZZ | 96906 | M \$21318-21 | SCREW, DRIVE DATA PLATE MOUNTING | 16 |
| 2 | PAOZZ | 19207 | 11647985 | PLATE, IDENTIFICATIO | 1 |
| 3 | PAOZZ | 19207 | 11647981 | PLATE, IDENTIFICATIO | 1 |
| 4 | PAOZZ | 19207 | 11647986 | PLATE, INSTRUCTION | 1 |
| | | | | | |

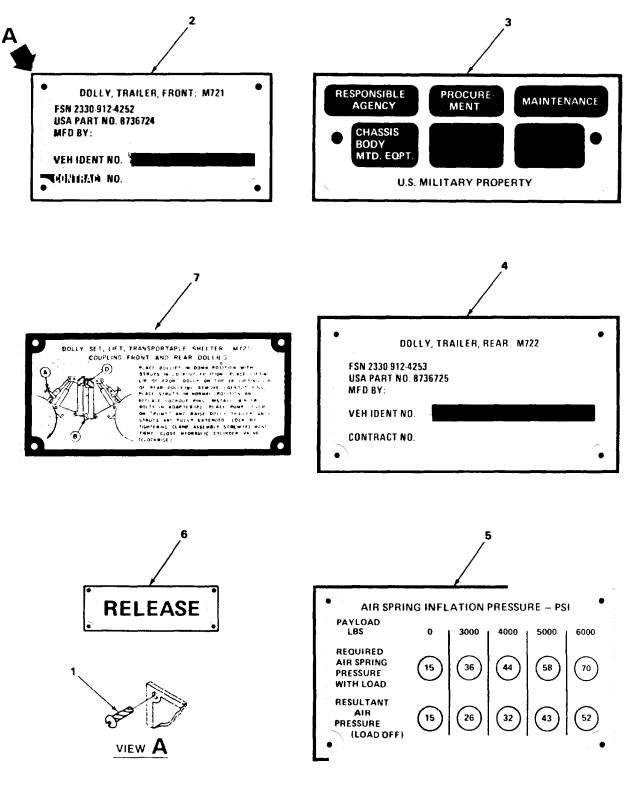


FIGURE 31. DATA PLATES.

| SECTIC | DN II | | TM 9-2330-28 | 35-14&P/TO 36A11-21-10-1 C01 | |
|-----------------------|---|--|---|---|-----------------------------|
| (1) ITEM | (2) SMR | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSCN | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | 2210 DATA PLATES Fig. 31 data plates | |
| 2 3 4 5 6 | PAOZZ PAOZZ PAOZZ XBOZZ XDOZZ | 19207 19207 19207 19207 19207 19207 | MS21318-21 11647982 7979373 11647983 11647987 11612101 11647984 | SCREW, DRIVE. PLATE, IDENTIFICATIO. PLATE, IDENTIFICATIO. PLATE, IDENTIFICATIO. PLATE, INSTRUCTION. TAG, INSTRUCTION. PLATE, IDENTIFICATIO. | 20 1 1 1 1 1 |
| | | | | | |

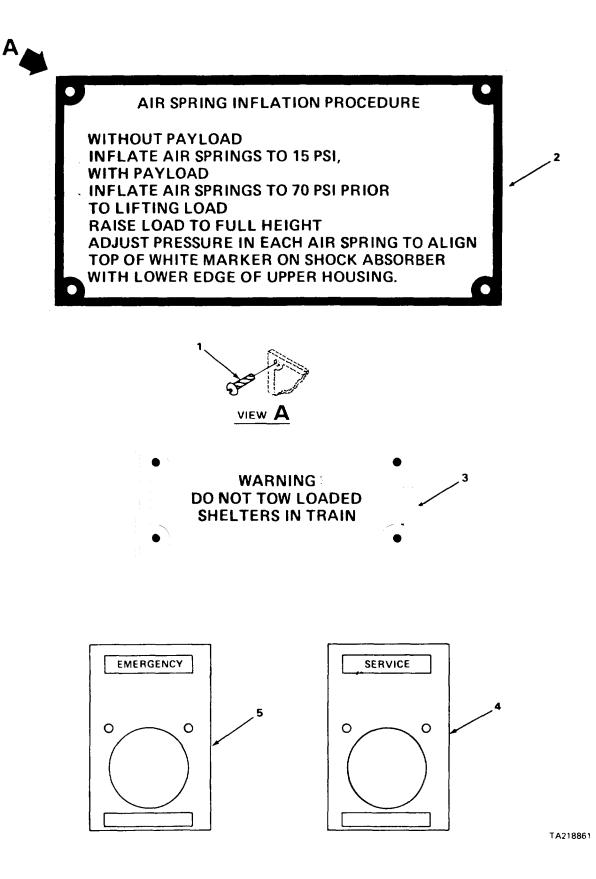


FIGURE 32. DATA PLATES.

| SECTIO | NII | | TM 9-2330-28 | 85-14&P/TO 36A11-21-10-1 C01 | |
|-------------|------------|-------|--------------------|--------------------------------------|-----|
| (1) ITEM | (2) SMR | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UDC) | QTY |
| | | | | 2210 DATA PLATES | |
| | | | | FIG. 32 DATA PLATES | |
| 1 | PAOZZ | 96906 | M S21318-21 | SCREW, DRIVE | 8 |
| 2 | PAOZZ | 19207 | 11682100 | PLATE, INSTRUCTION | 1 |
| 3 | PAOZZ | 19207 | 11612247 | PLATE, INSTRUCTION | 1 |
| 4 | PAOZZ | 96906 | M \$53007-1 | PLATE, IDENTIFICATIO SERVICE AIR | 1 |
| 5 | PAOZZ | 96906 | M\$53007-2 | PLATE, IDENTIFICATIO EMERGENCY AIR | 1 |
| | | | | | |

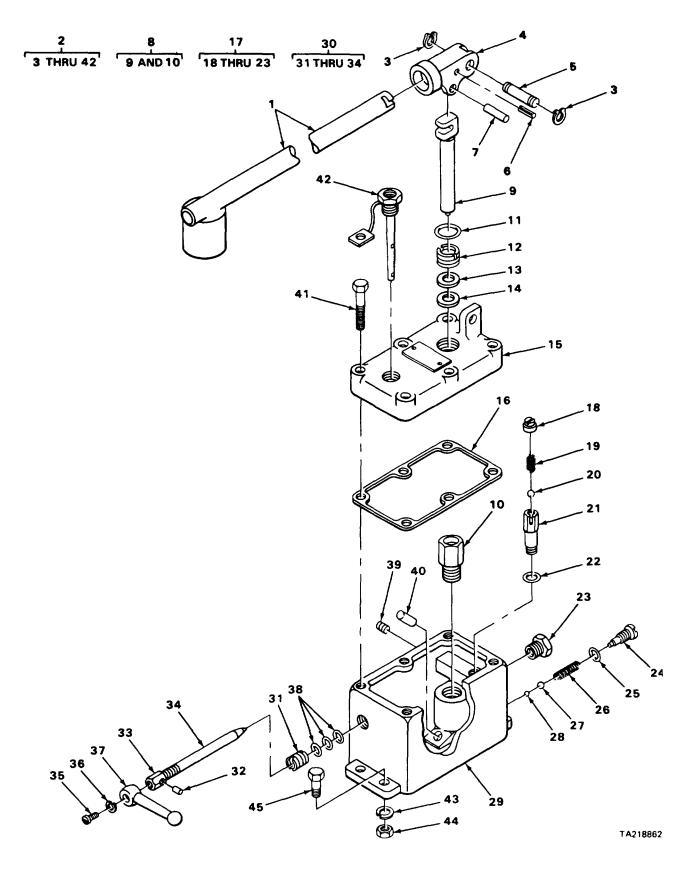


FIGURE 33. HYDRAULIC PUMP ASSEMBLY.

| SECTION | N 11 | | TM9-2330-285-148 | &P/TO 36A11-21-10-1 C01 | |
|---------|-------|-------|------------------------|--|--------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| ITEM | SMR | | PART | | |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 24 HYDRAULIC AND FLUID SYSTEMS | |
| | | | | 2401 HYDRAULIC PUMP | |
| | | | | FIG. 33 HYDRAULIC PUMP ASSEMBLY | |
| | | | | | |
| 1 | PAOZZ | 24835 | 5600099 | LEVER, MANUAL CONTRO | 2 |
| 2 | PAOFF | 26952 | HP-6001-51-11 | PUMP, HYDRAULIC RAM, | 2 |
| 3 | XDFZZ | 20805 | A 8008-49 | .RING, RETAINING | 2 |
| | | | 8 8008-060 | BEAM, HYDRAULIC PUMP | 1 |
| | | | A 8018-061 | •PIN,STRAIGHT,HEADLE | 1 |
| - | | | A 8001-057 | .PIN STRAIGHT HEAD | 1 |
| | | | A 8019-061 | •PIN,PUMP PLUNGER••••••• | 1 |
| | | | A 8087-900 | .CYLINDER, SUBASSEMBL | 1 |
| | | | A 8059-040 | PISTON | 1 |
| | | | P146-50 | CYLINDER, PISTON | 1 |
| | | | A 8009.037 | | 1 |
| | | | A 8018-021 | PACKING NUT | 1 |
| | | | P146-75 | .PACKING MATERIAL | 1 |
| | | | P146-118 C 8007-098 | COVER ACCESS | 1 1 |
| | | | A 1018-037 | | 1 |
| | | | P 307-900 | . VALVE, SAFETY RELIEF | 1 |
| | | | B 164+232 | .PLUG. | 1 |
| | | | B 162-206 | • SPRING HELICAL, COMP | i |
| - | | | 81008-016 | BALL, BEARING | 1 |
| - | | | P 307-190 | .BODY, VALVE | î |
| | | | B159-167 | • SPACER, RING. | 1 |
| | | | A 8000-212 | PLUG, PIPE | 1 |
| 24 | PAFZZ | 18876 | 11030936-1 | . SCREW, EXTERNALLY RE | 1 |
| 25 | PAFZZ | 00198 | 93938 | • WA SHER FLAT | 1 |
| 26 | XDFZZ | 20805 | H613-183 | • SPRING, HELICAL, COMP | 1 |
| | | | W12-16 | .BALL, BEARING VALVE | 1 |
| | | | B1008-016 | .BALL, BEARING SMALL | 1 |
| | | | C 8031-005 | • HOUSING, PUMP. | 1 |
| | | | H7-900 | .SPINDLE, RELEASE VAL | 1 |
| | | | P60-11 | INSERT, SCREW THREAD | 1 |
| | | | H11-261 | PIN, STRAIGHT, HEADLE | 1 |
| | | | H8-010 | •• VALVE, RELEASE | 1 |
| | | | H6-199 | · SPINDLE | 1 |
| | | | A 8016-048 | • SCREW, MACHINE • • • • • • • • • • • • • • • • • • • | 1 |
| | | | A 8000-066 | LEVER, MANUAL CONTRO | 1 |
| | | | P 60-12 995-262 | • WA SHER, FLAT. | 3 |
| | | | P 30 7-18 | SCREEN, STAND PUMP | 1 |
| | | | A 8018-006 | .PLUG, PIPE | 1 |
| | | | A 8017-048 | BOLT, MACHINE | 6 |
| | _ | | 11612205 | .CAP, BRAKE, AIR HYDRA | 1 |
| | | | M \$35338-44 | WA SHER , LOC K | 8 |
| | | | MS51968-5 | NUT, PLAIN, HEXAGON | 8 |
| | | | N 590726-36 | SCREW, CAP, HEXAGON H | 8 |
| | | | | | |

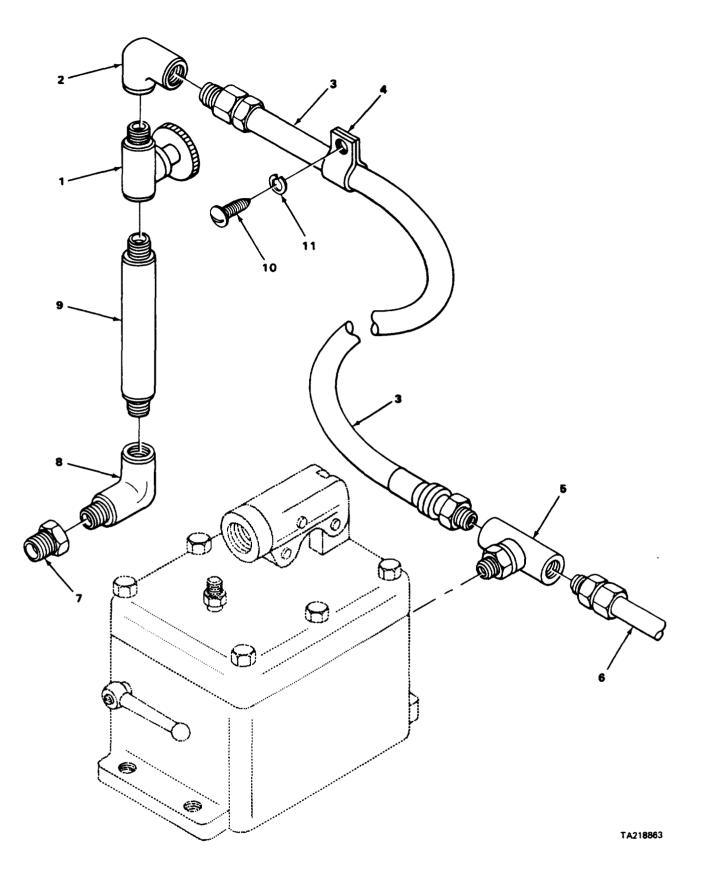


FIGURE 34. HYDRAULIC LINES AND FITTINGS.

| SECTIO | SECTION II TM9-2330-285-14&P/TO 38A11-21-10-1 C01 | | | | |
|-------------|---|-------|-------------------|--------------------------------------|-----|
| (1) ITEM | [2] Smr | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | 2406 HYDRAULIC LINES AND FITTINGS | |
| | | | | FIG. 34 HYDRAULIC LINES AND FITTINGS | |
| | | | 11602353 | VALVE,GLOBE | 4 |
| 2 | PAOZZ | 19207 | 1 1602476 | ELBOW, PIPE TO TUBE | 4 |
| 3 | PAOZZ | 19207 | 11612252 | HO SE ASSEMBLY, NONME | 4 |
| 4 | PAOZZ | 96906 | M \$9025-03 | CLAMP,LOOP | 8 |
| 5 | PAOZZ | 87373 | 212 T-4- 4 | TEE , PI PE | 2 |
| 6 | PAOZZ | 19207 | 11612239 | TUBE ASSEMBLY, METAL | 2 |
| 7 | PAOZZ | 15434 | 8169006 | BUSHING, PIPE | 4 |
| 8 | PAOZZ | 19207 | 8365771 | ELBOW, PIPE | 4 |
| 9 | PAOZZ | 96906 | M \$51953-33 | NIPPLE, PIPE | 4 |
| 10 | PAOZZ | 96906 | M \$35206-281 | SCREW, MACHINE | 8 |
| | | | M \$35338-44 | WA SHER , LOC K | 8 |

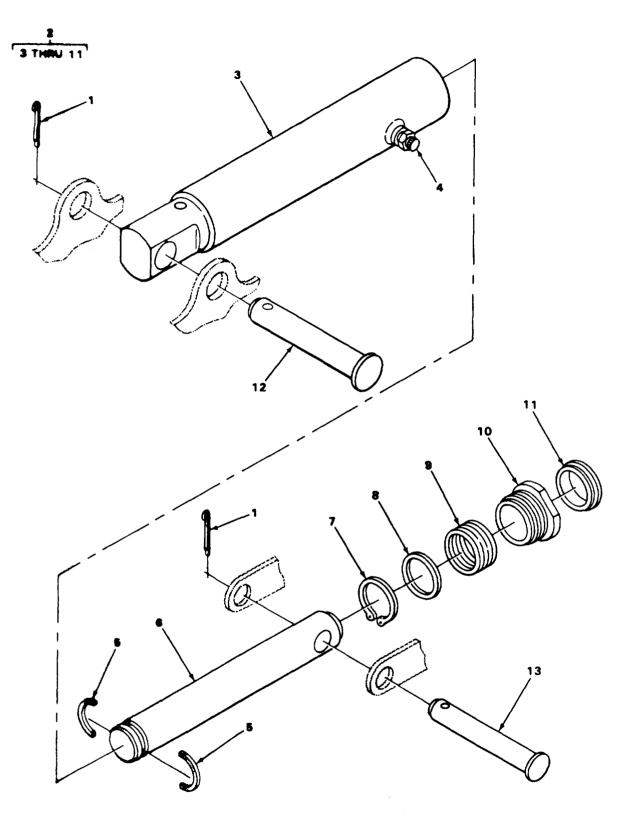
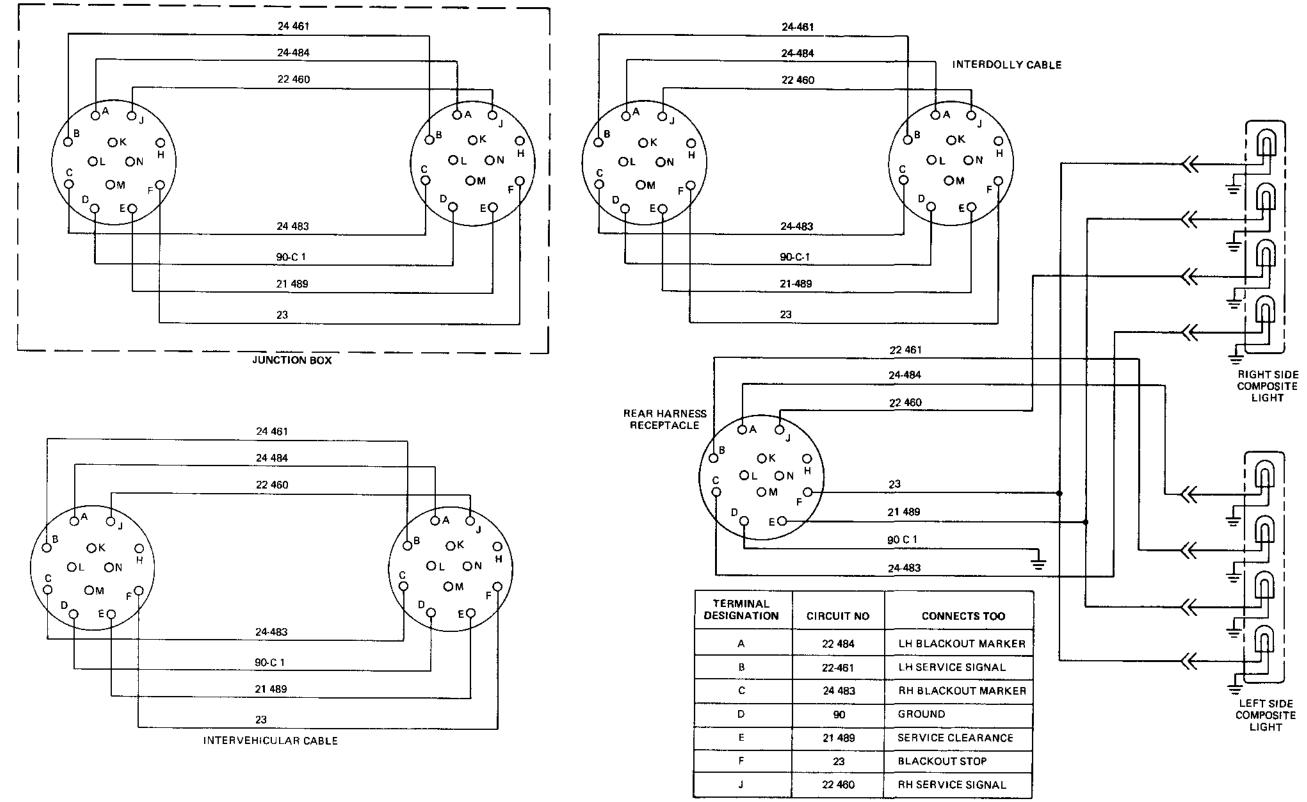


FIGURE 35. HYDRAULIC CYLINDER.

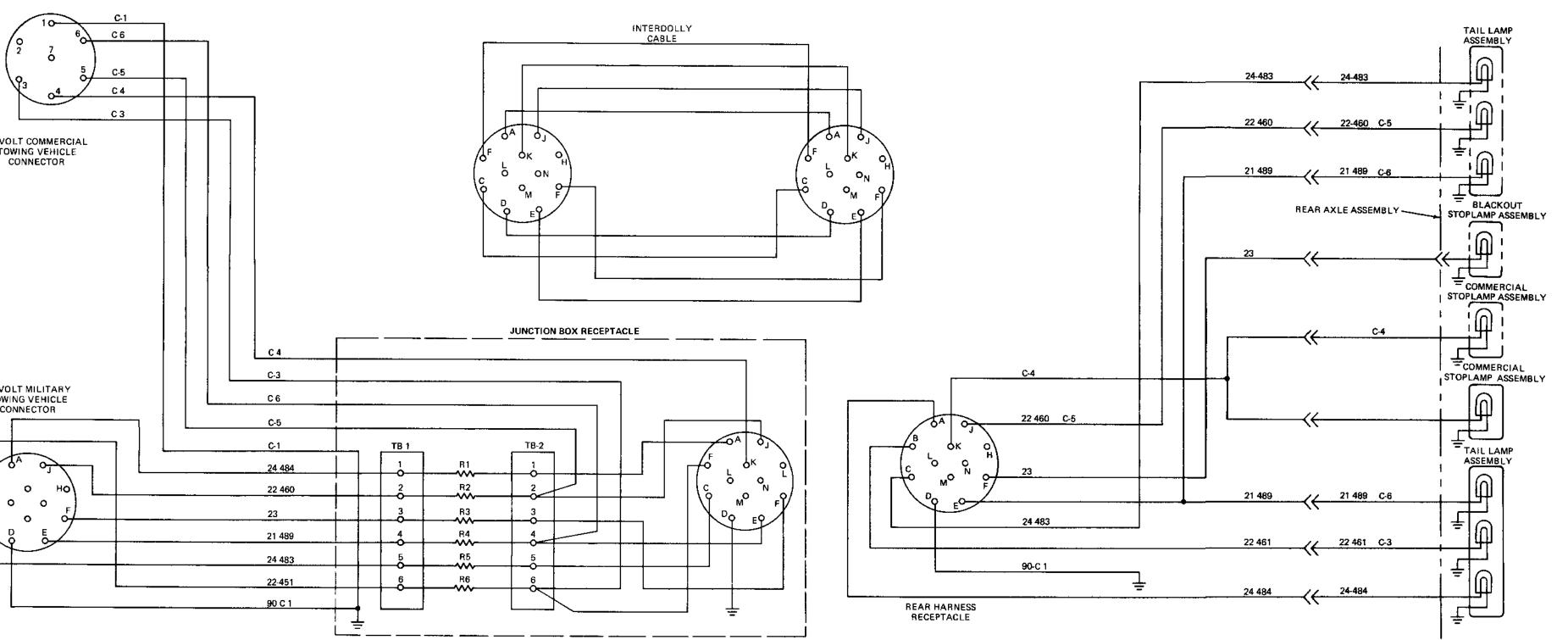
| SECTION II | | | TM 9-2330-285-14&P/TO 36A11-21-10-1 C01 | | |
|-------------|------------|-------|---|--|-----|
| (1) ITEM | (2) SMR | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | QTY |
| | | | | 2407 HYDRAULIC CYLINDERS FIG. 35 HYDRAULIC CYLINDER | |
| 1 | PAOZZ | 96906 | N S24665-357 | PIN,COTTER | 8 |
| 2 | PAOFH | 19207 | 11652335 | CYLINDER ASSEMBLY, A | 4 |
| 3 | XAFZZ | 16128 | 560031 2- 501 | .TUBE ASSEMBLY | 1 |
| 4 | PAOZZ | 24835 | B 3373-31 | .VALVE,AIR VENT | 1 |
| 5 | PAFZZ | 16128 | 5600317-001 | •GUIDE • • • • • • • • • • • • • • • • • • • | 1 |
| 6 | XAFZZ | 16128 | 5600316-001 | .ROD | 1 |
| 7 | PAFZZ | 58104 | A 1006-049 | .RING, RETAINING | ī |
| 8 | PAFZZ | 16128 | 5600315-001 | .RING, GUIDE, PISTON | ĩ |
| | | | 5600314-501 | .PACKING, PREFORMED PART OF KIT P/N | ī |
| | | | | KC1510-73-05 | - |
| 10 | PAFZZ | 16128 | 5600313-001 | .PACKING NUT | 1 |
| 11 | PAFZZ | 80201 | 504268 | . SEAL, PLAIN ENCASED PART OF KIT P/N | 1 |
| | | | | KC1510-73-05 | |
| 12 | PAOZZ | 19207 | 11602350-4 | PIN, STRAIGHT, HEADED | 4 |
| | | | 11602350-3 | PIN, STRAIGHT, HEADED | 4 |

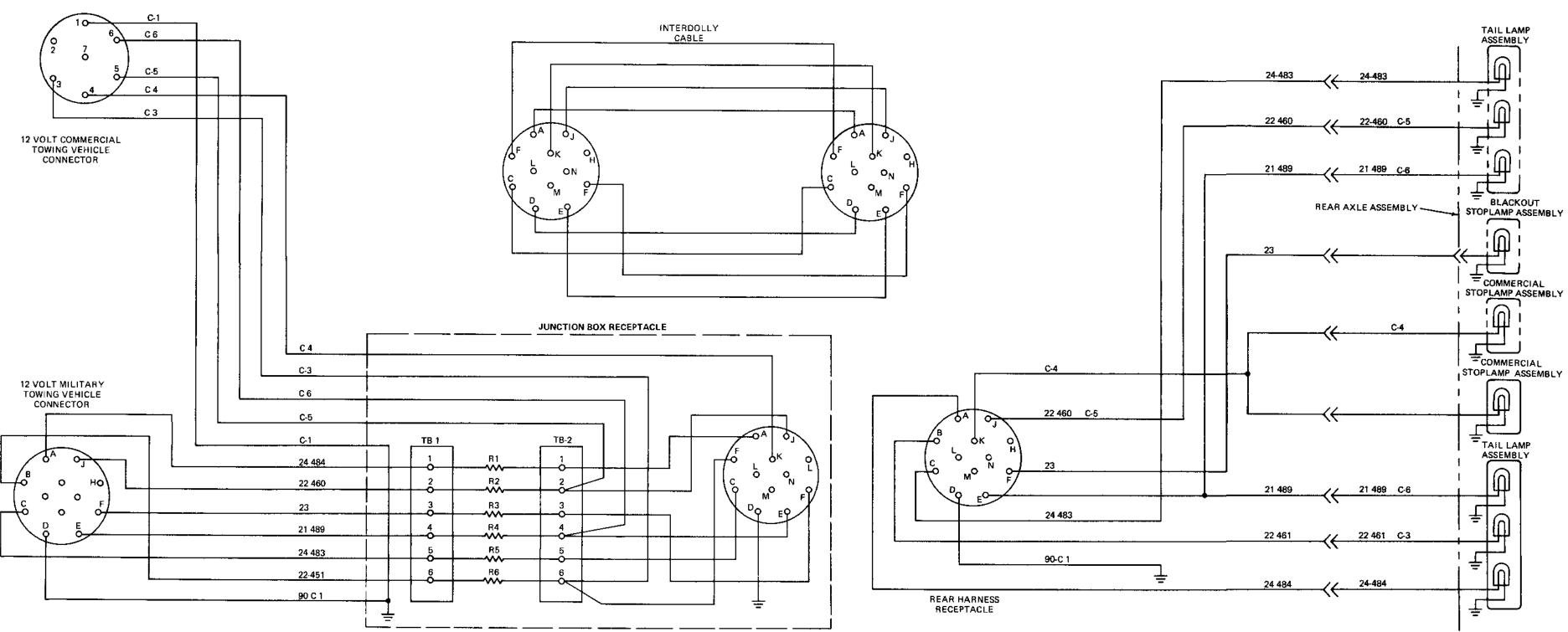
| SECTION II | | | TM9-2330-286-14&PTO 36A11-21-10-1 C01 | | |
|-------------|------------|-------|---------------------------------------|--|-----|
| (1) ITEM | (2) SMR | (3) | (4) Part | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | QTY |
| | | | | GROUP 94 KITS 9401 KITS | |
| | PAFZZ | 26952 | KC1510-73-05 | PARTS KIT,CYLINDER PACKING,PREFORMED (1) 35-9 SEAL,PLAIN ENCASED (1) 35-11 | . v |
| | PCFZZ | 26952 | K H2000 | REPAIR KIT, HYDRAULI | . 1 |
| | PAOZZ | 34623 | 93 7952 | KIT,BRAKE SHOE HOLD | . 1 |
| | | | | CUP, SPRING (2) 15-16 | |
| | | | | PIN, RETAINING (2) 15-2 | |
| | | | | SPRING,HELICAL,COMP(1) 15-17 | |

| SECTION | 1 11 | | TM 9-2330-28 | 35-14&P/1036A11-21-10-1 C01 | |
|-------------|------------|-------|--------------|--|-----|
| (1) ITEM | (2) SMR | (3) | (4) PAR T | (5) | (6) |
| NO | CODE | FSCM | NUMBER | DESCRIPTION AND USABLE ON CODES(UOC) | QTY |
| | | | | GROUP 95 GENERAL USE STANDARDIZED PARTS | |
| | | | | 9501 BULK MATERIAL | |
| 1 | xdozz | 19207 | 8689208 | TUBE, METALLIC | 25 |
| 2 | PAOZZ | 81349 | M13486/10-1 | CABLE, SPECIAL PURPO | V |
| 3 | PAOZZ | 81346 | ASTM A569 | STRIP, METAL | |
| | | | | END OF FIGURE | |



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TA 221785

APPENDIX G

MANUFACTURED ITEMS LIST

G-1. INTRODUCTION

This appendix includes complete instructions for making items authorized to be manufactured or fabricated at organizational maintenance.

A part number index in alphanumeric order is provided for cross-referencing the part number of the item to be manufactured to the figure which covers fabrication criteria.

All bulk materials needed for manufacture of an item are listed by part number or specification number in a tabular list on the illustration.

G-2. PART NUMBER INDEX

| PART NUMBER | ITEM | FIGURE NUMBER | PAGE NUMBER | | |
|---|-------------------------|------------------|----------------|--|--|
| 11612193 | 11612193 Tube assembly | | G-1 | | |
| 11612241 | Tube assembly | 2 | G-2 | | |
| 11682073 | Intervehicular cable | 4 | G-3 | | |
| 12313038 | Guard, air spring valve | 3 | G-2 | | |
| PART NUMBER ITEM MS39182.3 ELBOW 8689208-12 7/8 TUBE 8376127-10 LUBE 1.50 R TYP 5.25 1.5 REF 0.75 0.75 0.75 | | | | | |

Figure 1. Tube assembky

TA 221780

G-2. PART NUMBER INDEX - CONTINUED

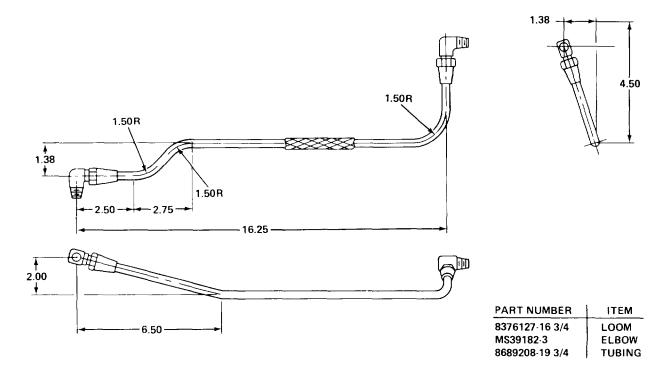


Figure 2. Tube assembly

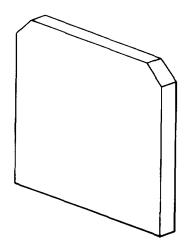


Figure 3. Air spring guard

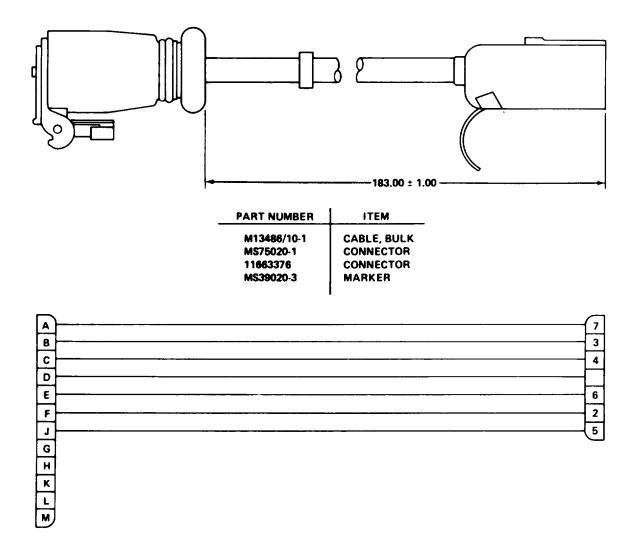


Figure 4. Intervehicular Cable

TA 221782

G-3/(G-4 blank)

APPENDIX H

TORQUE LIMITS

CAPSCREW MARKING

Much Used

Quality of Material

Current Usage

Indeterminate

SAE Grade Number

Capscrew Head Markings



Manufacturer's marks may vary

These are all SAE Grade 5 (3 line)

 $\bigcirc \bigcirc \bigcirc \bigcirc$

Minimum

5

Much Used

Commercial Commercial





Medium

Used at Times

Used at Times

Best Commercial

8



CAUTION

If replacement capscrews are of a higher grade than originally supplied, use torque specifications for that placement. This will prevent equipment damage due to over torquing.

| Capscrew (Inches) - | Body Size (Thread) | Torq Ft Lb | lue (N⋅m) | Torq Ft Lb | | Torq Ft Lb | lue (N⋅m) | Torc Ft Lb | que (N⋅m) |
|------------------------|-----------------------|---------------|--------------|---------------|-------|---------------|--------------|---------------|--------------|
| 1/4 | 20 | 5 | (7) | 8 | (11) | 10 | (14) | 12 | (16) |
| | 28 | 6 | (8) | 10 | (14) | | | 14 | (19) |
| 5/16 | 18 | 11 | (15) | 17 | (23) | 19 | (26) | 24 | (33) |
| | 24 | 13 | (18) | 19 | (26) | | | 27 | (37) |
| 3/8 | 16 | 18 | (24) | 31 | (42) | 34 | (46) | 44 | (60) |
| | 24 | 20 | (27) | 35 | (47) | | | 49 | (66) |
| 7/16 | 14 | 29 | (38) | 49 | (66) | 55 | (75) | 70 | (95) |
| | 20 | 30 | (41) | 55 | (75) | | | 78 | (106) |
| 1/2 | 13 | 39 | (53) | 75 | (102) | 85 | (115) | 105 | (142) |
| | 20 | 41 | (56) | 85 | (115) | | | 120 | (163) |
| 9/16 | 12 | 51 | (69) | 110 | (149) | 120 | (163) | 155 | (210) |
| | 18 | 55 | (75) | 120 | (163) | | | 170 | (231) |
| 5/8 | 11 | 83 | (113) | 150 | (203) | 167 | (226) | 210 | (285) |
| | 18 | 95 | (1 29) | 170 | (231) | | | 240 | (325) |
| 3/4 | 10 | 105 | (142) | 270 | (366) | 280 | (380) | 375 | (508) |
| | 16 | 115 | (156) | 295 | (400) | | | 420 | (569) |
| 7/8 | 9 | 160 | (21 7) | 395 | (536) | 440 | (597) | 605 | (820) |
| | 14 | 175 | (237) | 435 | (590) | | | 675 | (915) |
| 1 | 8 | 235 | (31 9) | 590 | (800) | 660 | (895) | 910 | (1234) |
| | 14 | 250 | (339) | 660 | (895) | | | 990 | (1342) |

TORQUE VALUES - CONTINUED

NOTE

Always use the torque values listed above when specific torque values are not available.

Do not use above values in place of those specified in other sections of this manual; special attention should be observed when using SAE Grade 6, 7 and 8 capscrews.

The above is based on use of clean, dry threads.

Reduce torque by 10 percent when engine oil is used as a lubricant.

Reduce torque by 20 percent if new plated capscrews are used.

Capscrews threaded into aluminum may require reductions in torque of 30 percent or more of Grade 5 capscrews torque and must attain two capscrew diameters of thread engagement.

| | NATIO | NAL STOCK | NUMBER INDEX | | |
|-------------------------------|--------|-----------|------------------|----------|------|
| STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
| 6260 00-010 0977 | , | 14 | 4730-00-069-1187 | 19 | 19 |
| 6240-00-019-0877 | 1 3 | 10 | 2530-00-069-9427 | 14 | 13 |
| 6240-00-019-3093 | 3 | 8 | 4710-00-070-9809 | 17 | 4 |
| 2530-00-021-2366 | 18 | 14 | 4710-00-070-9812 | 19 | 10 |
| 5340-00-033-6209 | 21 | 13 | 4720-00-071-1449 | 17 | 16 |
| 2590-00-035-6281 | 4 | 21 | 4720-00-071-1450 | 17 | 11 |
| 4730-00-035-8036 | 34 | 8 | 4710-00-071-1507 | 17 | 4 |
| 5305+00-042-3560 | 15 | 3 | 4110-00-011-1901 | 17 | 5 |
| 6240-00-044-6914 | 15 | 13 | | 17 | 12 |
| 8240-00-044-0914 | 3 | 9 | 5975-00-074-2072 | 8 | 12 |
| 5310-00-045-3296 | 29 | 25 | 2530-00-076-5045 | 12 | 1 |
| 5310-00-045-3299 | 4 | 17 | 2530-00-076-5178 | 12 | 1 |
| JJ10-00-0 4 J-J233 | 4 | 30 | 2510-00-076-6971 | 13 | ī |
| | 5 | 5 | 2530-00-076-8599 | 9 | ī |
| | 10 | 2 | 2540-00-076-8621 | 25 | 2 |
| | 23 | 2 | 3040-00-076-8670 | 35 | 2 |
| 2530-00-045-9425 | 21 | 5 | 2590-00-077-0447 | 14 | 2 |
| 5306-00-050-1238 | 29 | 9 | 2590-00-077-0448 | 14 | 2 |
| 5500-00-050-1250 | 29 | 11 | 2590-00-078-2929 | 6 | 1 |
| 4730-00-050-4203 | 9 | 5 | 2590-00-078-2930 | 8 | 1 |
| 4730-00-030-4203 | 10 | 9 | 5330-00-090-2128 | 19 | 1 |
| | 23 | 17 | 5365-00-090-5426 | 7 | 7 |
| | 25 | 9 | JJUJ-00-090-J420 | 8 | 3 |
| | 25 | 19 | 3110-00-100-6155 | 33 | 27 |
| 4730-00-050-4208 | 23 | 13 | 9905-00-108-6205 | 31 | 7 |
| 5940-00-050-6207 | 4 | 7 | 9905-00-108-6215 | 32 | 3 |
| 3940-00-030-0201 | 4 | 23 | 9905-00-108-6216 | 31 | 4 |
| 5940-00-050-6209 | 7 | 10 | 9905-00-108-6219 | 31 | 2 |
| J 940-00-050-8209 | 8 | 10 | 9905-00-114-4630 | 30 | 3 |
| 5340-00-051-2668 | 7 | 17 | 5305-00-115-9526 | 21 | 15 |
| 2240-00-021-2008 | 14 | 3 | 9905-00-117-0257 | 30 | 4 |
| | 14 | 3 | 2530-00-119-3725 | 16 | 5 |
| | 17 | 3 | 5310-00-119-4801 | 20 | 5 |
| | 17 | 15 | 3120-00-122-5002 | 23 | 18 |
| | 19 | 8 | 5330-00-123-8671 | 33 | 11 |
| 5315-00-059-0217 | 25 | 22 | 2540-00-124-9157 | 25 | 20 |
| 5935-00-059-2841 | 4 | 27 | 2540-00-132-1307 | 25 | 10 |
| 3335-00-039-2041 | 6 | 2 | 5310-00-136-1467 | 22 | 5 |
| 2640-00-060-3550 | 22 | 4 | 2530-00-138-8172 | 15 | 21 |
| 5305-00-068-0501 | 5 | 15 | 2530-00-138-8591 | 23 | 16 |
| 5305-00-068-0502 | 4 | 37 | 2530-00-139-3496 | 10 | 6 |
| JJ0J 00 000 0J02 | i | 1 | 2530-00-139-3497 | 10 | 6 |
| | , 9 | 4 | 5310-00-141-1795 | ĩ | 10 |
| | 13 | 2 | | 17 | 8 |
| | 17 | 7 | | 29 | Š |
| | 19 | 13 | 5365-00-147-9142 | 35 | 7 |
| | 29 | 18 | 5310-00-148-4757 | 33 | 25 |
| 5305-00-068-0512 | 3 | 10 | 6145-00-152-6499 | 8 | 11 |
| 2530-00-068-6570 | 23 | 12 | 6240-00-155-8717 | ĩ | 21 |
| 2530-00-068-6571 | 23 | 12 | | 2 | 5 |
| 2000 00-000-0011 | 23 | 1 4 | | E | ~ |

| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | NATI | DNAL STOCK | NUMBER INDEX | | |
|---|--------------------|------|------------|-------------------|------|------|
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | STOCK NUMBER | | | | FIG. | ITEM |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 9905-00-159-0023 | 30 | 2 | 4820-00-349-8952 | 33 | 17 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 5306-00-165-8284 | 28 | | 5340-00-371-6507 | | 31 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 5315-00-165-8480 | 35 | 13 | 5330-00-377-5503 | 33 | 16 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 5315-00-165-8481 | 35 | 12 | 5310-00-391-0687 | 21 | 16 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 5310-00-167-0826 | 24 | 6 | 5310-00-391-0688 | 21 | 16 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 5310-00-167-0827 | 24 | 23 | 5310-00-393-6685 | 7 | 8 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 4320-00-172-1817 | 33 | 2 | | 8 | 4 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 4820-00-174-0339 | 20 | 13 | 5940-00-399-6676 | 8 | 7 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 5340-00-178-1441 | | 6 | 5310-00-407-9566 | 1 | 6 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 6220-00-179-4324 | 3 | _ | | 18 | 10 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | 21 | | | 18 | 17 |
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| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | 4030-00-431-5536 | | |
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| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | 5330-00-501-9486 | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | (7) 0 00 511 1(02 | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 5305-00-255-5615 | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 5 30 5-00-267-8955 | | | | - | |
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| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 4730-00-278-6318 | | | | 5 | |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | |
| 5330-00-297-7106 1 15 14 4 5315-00-298-1481 24 22 17 2 35 1 17 13 5310-00-298-5502 33 38 19 7 1730-00-303-1089 33 39 29 2 | | | | | | |
| 5315-00-298-1481242217235117135310-00-298-550233381971730-00-303-10893339292 | 5330-00-297-7106 | | | | | 4 |
| 35117135310-00-298-550233381971730-00-303-10893339292 | 5315-00-298-1481 | 24 | 22 | | 17 | |
| 1730-00-303-1089 3 3 3 9 29 2 | | 35 | | | 17 | |
| | 5310-00-298-5502 | 33 | 38 | | | |
| 5310-00-311-4304 27 3 29 19 | | | | | | |
| | 5310-00-311-4304 | 27 | 3 | | 29 | 19 |

| | NATIC | NAL STOCK | NUMBER INDEX | | |
|-------------------------|----------|-----------|--------------------------------------|----------|---------|
| STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
| | | | | | |
| 5310-00-582-5965 | 33 | 43 | 5306-00-737-5862 | 21 | 4 |
| | 34 | 11 | 5306-00-737-5863 | 21 | 4 |
| 5330-00-584-0265 | 18 | 7 | 2530-00-737-7783 | 18 | 4 |
| 5310-00-584-5272 | 12 | 3 | 9905-00-752-4649 | 4 | 6 |
| | 25 | 12 | | 4 | 22 |
| | 25 | 17 | | 7 | 14 |
| | 25 | 34 | (220 00 752 (020 | 8 | 6 |
| | 27 | 2 | 6220-00-752-6020 | 1 | 16 |
| 4730-00-595-0083 | 19 | 2 | 4730-00-753-6271 | 19 | 3 |
| 2530-00-600-9158 | 33 | 42 | 5365-00-759-7412 | 33 | 22 |
| 5310-00-616-3056 | 1 | 29 | 5310-00-761-6882 | 4 | 13 |
| 2530-00-621-6330 | 15 | 6 | | 4 | 39 |
| 5310-00-637-9541 | 15 | 13 | | 5 5 | 9 |
| 5510-00-657-9541 | 18 20 | 13 7 | | 5 7 | 12 |
| | 20 | 14 | 5305-00-764-0070 | 2 | 3 2 |
| | 24 | 27 | 5310-00-768-0319 | 2 | |
| | | | 5510-00-188-0319 | 3 | 30 5 |
| | 26 | 2 | E210 00 7(0 (E20 | | 9 |
| 2610-00-660-2068 | 26 22 | 5 | 5310-00-769-6520 5310-00-769-6521 | 21 21 | |
| 2610-00-640-3968 | | 1 | | 21 4 | 11 |
| 1730-00-651-8476 | 33 | 30 | 5935-00-773-1428 | - | |
| 5310-00-655-9542 | 27 | 4 | | 5 7 | 6 |
| 5310-00-656-0067 | 1 | 1 25 | 4730-00-773-2163 | 16 | 2 2 |
| 6220-00-669-5623 | 1 1 | 11 | 6220-00-775-2384 | 2 | 23 |
| 5330-00-677-2359 | 33 | 13 | 2510-00-782-1896 | 26 | |
| 5330-00-678-9047 | 2 | 4 | 5340-00-809-1494 | 29 | 16 |
| 5310-00-680-7297 | 20 | 4 | 4720-00-809-2750 | 16 | 3 |
| 5315-00-687-3790 | 24 | 15 | 2640-00-810-5861 | 22 | 3 |
| 5935-00-691-5591 | 1 | 24 | 5305-00-810-6653 | 20 | 2 |
| 5340-00-700-1423 | 15 | 28 | 5340-00-811-3025 | 34 | 4 |
| 5360-00-700-4429 | 18 | 8 | 3110-00-812-7349 | 33 | 20 |
| 6145-00-705-6684 | BULK | 2 | STRO OU OIL ISVS | 33 | 28 |
| 4730-00-707-3068 | 24 | 24 | 5315-00-816-5813 | 23 | 15 |
| 5305-00-719-5219 | 25 | 13 | 5340-00-821-0304 | 29 | 30 |
| 5305-00-719-5235 | 12 | 4 | 5305-00-824-2279 | 5 | 2 |
| | 25 | 26 | 5935-00-833-8561 | ź | 1Ĩ |
| 5305-00-719-5243 | 25 | 18 | | 8 | |
| 5320-00-721-5210 | 29 | 29 | 5970-00-833-8562 | 7 | 12 |
| 5305-00-725-3525 | 10 | 12 | | 8 | 8 |
| 5305-00-725-4183 | 25 | 35 | 2540-00-835-9039 | 25 | 33 |
| 5310-00-732-0558 | 18 | 12 | 5315-00-838-4584 | 24 | 17 |
| 5310-00-732-0559 | 20 | 6 | 5310-00-842-7616 | 25 | 8 |
| | 24 | 26 | 5315-00-846-0126 | 25 | 7 |
| 5310-00-732-0560 | 12 | 2 | 5935-00-846-3883 | 4 | 5 |
| | 27 | ī | 5935-00-846-3884 | 7 | 6 |
| 2530-00-733-1739 | 21 | - 8 | | 8 | 2 |
| 5310-00-737-1106 | 21 | 10 | 5940-00-846-5012 | 7 | 13 |
| 5330-00-737-1109 | 21 | 12 | 5305-00-855-0974 | 1 | 18 |
| 5330-00-737-3354 | 16 | 3 | 5340-00-860-0555 | 7 | 18 |
| ···· ··· ···· ···· | | - | | - | |

SECTION IV

| | NATIO | NAL STOCK | NUMBER INDEX | | |
|--------------------------|----------|-----------|-------------------------|-------|------|
| STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
| | | | | • • • | |
| 5365- 00-864-2993 | 17 | 6 | 5305-00-957-6645 | 4 | 28 |
| 5310-00-874-2922 | 15 | 7 | 5305-00-958-5471 | 29 | 24 |
| | 15 | 12 | 5310-00-959-1488 | 21 | 3 |
| 5310-00-877-5795 | 25 | 28 | 5340-00-966-8234 | 29 | 31 |
| 5310-00-877-5796 | 29 | 14 | 5305-00-978-9352 | 4 | 32 |
| 5310-00-880-7746 | 10 | 11 | 5305-00-978-9353 | 10 | 1 |
| | 18 | 11 | | 23 | 1 |
| | 33 | 44 | 5305-00-978-9390 | 26 | 6 |
| 5305-00-889-3001 | 5 | 7 | 5310-00-982-6809 | 28 | 8 |
| 9905-00-893-3570 | 4 | 24 | 5305-00-984-6193 | 4 | 3 |
| | 6 | 4 | | 5 | 4 |
| | 7 | 9 | 5305-00-984-6196 | 4 | 34 |
| | 8 | 5 | 5305-00-984-6212 | 4 | 15 |
| 5310-00-899-1957 | 14 | 6 | 5305-00-988-1723 | 4 | 41 |
| 4730-00-908-3193 | 16 | 2 | | 7 | 15 |
| 2590-00-911-5287 | 35 | 4 | | 14 | 5 |
| 4730-00-911-5645 | 18 | 15 | | 14 | 5 |
| 5935-00-914-0822 | 6 | 5 | | 17 | 14 |
| 5305-00-914-6131 | 23 | 14 | | 19 | 6 |
| 5330-00-923-2413 | 35 | 11 | | 29 | 1 |
| 5999-00-926-3144 | 1 | 26 | 5305-00-988-1725 | 1 | 8 |
| 2530-00-930-4859 | 15 | 15 | 2303 00 700 1123 | 17 | 1 |
| 3120-00-930-5616 | 10 | 10 | | 29 | 4 |
| 2530-00-930-5618 | 15 | 23 | | 29 | 27 |
| 2530-00-930-5624 | 15 | 9 | | 34 | 10 |
| 4720-00-930-5628 | 19 | 15 | 5305-00-993-2461 | 1 | 27 |
| 2530-00-930-5633 | 15 | 4 | JJ 0J 00 JJJ 2401 | 3 | 13 |
| 2540-00-930-5634 | 27 | 5 | | 29 | 17 |
| 2530-00-930-5638 | 15 | 14 | 9905-00-999-7369 | 32 | 5 |
| 4010-00-930-5641 | 15 | 18 | 9905-00-999-7370 | 32 | 4 |
| 5360-00-930-5644 | 15 | 25 | 2540-01-020-6084 | 29 | 7 |
| 5360-00-930-5645 | 15 | 5 | 5340-01-020-6110 | 29 | 3 |
| 2530-00-930-5648 | 15 | 4 | 2530-01-024-6887 | 15 | 8 |
| 5360-00-930-5649 | 15 | 19 | 5340-01-025-5187 | 24 | 3 |
| 3040-00-930-5650 | KIT | 17 | 4820-01-026-9997 | 34 | - |
| 4010-00-930-5651 | 25 | 29 | 2530-01-037-4978 | 21 | 1 |
| 5365-00-930-5654 | 9 | 2 | 2530-01-040-4208 | 29 | 32 |
| 2590-00-930-5662 | , 7 | 5 | 2530-01-042-3693 | 29 | |
| 5340-00-930-5669 | 33 | | | | 8 |
| 6220-00-930-5678 | | 1 | 5330-01-042-8881 | 4 | 35 |
| 5310-00-934-9757 | 1 5 | 17 10 | 2590-01-043-8301 | 4 | 4 |
| 5310-00-934-9757 | | 18 | 5365-01-044-3502 | 5 | 11 |
| 3310-00-334-3758 | 29 | | 4320-01-044-7261 | 27 | 6 |
| 5305-00-942-2196 | | 26 | | 33 | 4 |
| JJUJ-UU-942-2190 | 1 20 | 28 8 | 3040-01-044-8319 | 35 | 5 |
| | 20 21 | | 4320-01-044-9282 | 33 | 15 |
| | | 2 | 4730-01-044-9454 | 35 | 10 |
| F 2 10-00-050 0030 | 26 | 1 | 3040-01-045-2270 | 35 | 8 |
| 5310-00-950-0039 | 23 | 11 | 2590-01-046-0903 | 4 | 20 |
| 5310-00-950-1309 | 25 | 6 | | 5 | 1 |
| 5305-00-952-4721 | 33 | 24 | 4320-01-046-6797 | 33 | 8 |

| | NATI | NAL STOCK | NUMBER INDEX | | |
|--------------------------------------|----------|-----------|------------------|------|------|
| STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
| | | | | | |
| 5315-01-046-7953 | 33 | 5 | 5315-01-156-8849 | 24 | 16 |
| 5306-01-047-0318 | 33 | 41 | 1095-01-162-0352 | 18 | 5 |
| 5315-01-047-2784 | 33 | 6 | 5340-01-168-4200 | 29 | 6 |
| 2540-01-048-6241 | 29 | 21 | 2530-01-180-8654 | 16 | 4 |
| 5340-01-048-8660 | 3 | 4 | 5365-01-180-9924 | 24 | 28 |
| 4730-01-049-2696 | 19 | 11 | 5365-01-180-9955 | 24 | 29 |
| 4730-01-049-5339 | 19 | 4 | 2530-01-183-2647 | 15 | 20 |
| | 20 | 12 | 2530-01-183-2648 | 15 | 20 |
| 5340-01-051-3444 | 28 | 4 | 2530-01-183-2718 | 16 | 4 |
| 4720-01-053-5120 | 19 | 14 | 3040-01-183-2761 | 15 | 26 |
| 4730-01-053-8468 | 17 | 20 | 5340-01-189-6405 | 29 | 13 |
| 4730-01-053-8749 | 33 | 12 | 9905-01-191-6032 | 32 | 2 |
| 2530-01-054-4305 | 28 | 6 | 5315-01-195-8025 | 24 | 8 |
| 3120-01-055-3956 | 24 | 21 | 2530-01-254-4962 | 24 | 20 |
| 5315-01-055-4478 | 23 | 7 | 2530-01-257-1609 | 15 | 26 |
| 4730-01-055-8314 | 17 | 17 | 2540-01-257-3863 | 29 | 20 |
| 5340-01-055-8837 | 17 | 9 | 2530-01-258-8093 | 10 | 8 |
| 5365-01-056-3317 | 28 | 3 | 5340-01-259-7613 | 29 | 23 |
| 5310-01-056-5125 | 28 | 7 | 4720-01-269-8389 | 19 | 5 |
| 5310-01-057-0402 | 28 | 5 | 2530-01-270-7967 | 21 | 17 |
| 2530-01-057-6225 | 13 | 5 | 5340-01-278-6283 | 29 | 22 |
| 5340-01-060-7217 | 24 | 13 | 4710-01-296-0469 | 34 | 6 |
| 5315-01-061-4972 | 24 | 12 | | | |
| 2510-01-067-4717 | 3 | 7 | | | |
| 5330-01-067-9691 | 21 | 6 | | | |
| 6220-01-093-4439 | 3 | 6 | | | |
| 5330-01-094-5104 | 16 | 2 | | | |
| 2530-01-094-9005 | 15 | 23 | | | |
| 2530-01-094-9006 | 15 | 22 | | | |
| 3120-01-098-1613 | 10 | 7 | | | |
| 5315-01-098-1791 | 23 | 6 5 | | | |
| 4720-01-098-3277 | 10 17 | 10 | | | |
| 4720-01-098-3278 | | 3 | | | |
| | 34 | - | | | |
| 4720-01-099-9625 2530-01-109-4751 | 19 20 | 9 10 | | | |
| 4730-01-110-4773 | 34 | 2 | | | |
| 5365-01-111-1521 | 10 | 3 | | | |
| JJ0J-01-111-1J21 | 23 | 3 | | | |
| 3120-01-113-0648 | 24 | 25 | | | |
| 5935-01-115-5101 | 4 | 25 | | | |
| 2530-01-115-8128 | 15 | 1 | | | |
| 2530-01-124-5454 | 15 | 27 | | | |
| 2530-01-132-1383 | 21 | 1 | | | |
| 2530-01-132-9085 | 15 | i | | | |
| 5365-01-134-0922 | 13 | 4 | | | |
| 5315-01-136-7182 | 24 | 18 | | | |
| 5340-01-142-9728 | 29 | 10 | | | |
| 2530-01-150-4998 | 21 | 1 | | | |
| 2530-01-150-4999 | 21 | i | | | |
| | | | | | |

| | | PART NUMBER INDEX | | |
|-------|-------------------|---|------|------|
| FSCM | PART NUMBER | STOCK NUMBER | FIG. | ITEM |
| 88044 | AN 960-1216 | 5310-00-167-0826 | 24 | 6 |
| 88044 | AN 960-1416 | 5310-00-167-0827 | 24 | 23 |
| 88044 | AN 960-416 | 5310-00-141-1795 | 1 | 10 |
| 00044 | AN 900 410 | 3310 00 x 11 x 173 | 17 | 8 |
| | | | 29 | 5 |
| 81346 | ASTM A569 | 9515-00-204-3967 | BULK | 3 |
| 58104 | A1006-049 | 5365-00-147-9142 | 35 | 7 |
| 26952 | A1018-037 | 5330-00-377-5503 | 33 | 16 |
| 20805 | A 8000-066 | | 33 | 36 |
| 20805 | A8000-212 | | 33 | 23 |
| 26952 | A8001-057 | 5315-01-047-2784 | 33 | 6 |
| 20805 | A 8008-49 | JJIJ 01 041 2704 | 33 | 3 |
| 26952 | A8009.037 | 5330-00-123-8671 | 33 | 11 |
| 20805 | A8016-048 | JJJ0 00 12J 0011 | 33 | 35 |
| 26952 | A8017-048 | 5306-01-047-0318 | 33 | 41 |
| 20805 | A8018-006 | <i>yyoooioiioiioiioiioiioiioiioiioiioiioiioiio<i>iioiio<i>iioiioiio<i>iioiio<i>iioiio<i>iioiio<i>iioiio<i>iioiio<i>iioiio<i>iio</i></i></i></i></i></i></i></i></i></i> | 33 | 40 |
| 26952 | A8018-021 | 4730-01-053-8749 | 33 | 12 |
| 26952 | A8018-061 | 5315-01-046-7953 | 33 | 5 |
| 26952 | A8019-061 | | 33 | 7 |
| 20805 | A8059-040 | | 33 | 9 |
| 26952 | A 8087-900 | 4320-01-046-6797 | 33 | 8 |
| 82240 | B-1900-613 | 5340-00-966-8234 | 29 | 31 |
| 05842 | B1008-016 | 3110-00-812-7349 | 33 | 20 |
| 00042 | | | 33 | 28 |
| 26952 | B159-167 | 5365-00-759-7412 | 33 | 22 |
| 20805 | B162-206 | | 33 | 19 |
| 20805 | B 164-232 | | 33 | 18 |
| 82240 | 81900-377 | 5340-00-821-0304 | 29 | 30 |
| 24835 | B3373-31 | 2590-00-911-5287 | 35 | 4 |
| 26952 | B8008-060 | 4320-01-044-7261 | 33 | 4 |
| 26952 | C 8007-098 | 4320-01-044-9282 | 33 | 15 |
| 20805 | C8031-005 | | 33 | 29 |
| 81285 | ES150L | 2530-00-068-6570 | 23 | 12 |
| 81285 | ES150R | 2530-00-068-6571 | 23 | 12 |
| 98313 | FDK 2850 | 5365-00-930-5654 | 9 | 2 |
| 26952 | HP-6001-51-11 | 4320-00-172-1817 | 33 | 2 |
| 20805 | H11-261 | | 33 | 32 |
| 20805 | H6-199 | | 33 | 34 |
| 20805 | H61 3- 183 | | 33 | 26 |
| 07505 | H 7-9 00 | 1730-00-651-8476 | 33 | 30 |
| 20805 | H8-010 | | 33 | 33 |
| 26952 | KC 1 510- 73- 05 | 3040-00-930-5650 | KIT | |
| 26952 | KH2000 | 4940-00-186-3199 | KIT | |
| 97030 | LOOM 3/8 ID | 5975-00-285-0907 | 19 | 18 |
| 81349 | MIL-W-1511A | | 24 | 11 |
| 81349 | MILH15021 | | 29 | 15 |
| 81349 | MILW1511A | | 29 | 33 |
| 96906 | MS15001-1 | 4730-00-050-4203 | 9 | 5 |
| | | | 10 | 9 |
| | | | 23 | 17 |
| | | | 25 | 9 |

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| | | PART NUMBER INDEX | | |
|----------------|----------------------------|-------------------|----------|---------|
| FSCM | PART NUMBER | STOCK NUMBER | FIG. | ITEM |
| 96906 | MS15001-1 | 4730-00-050-4203 | 25 | 19 |
| 96906 | MS15003-1 | 4730-00-050-4208 | 23 | 13 |
| 96906 | MS15570-1251 | 6240-00-019-0877 | 1 | 14 |
| | | | 3 | 10 |
| 96906 | MS15570-623 | 6240-00-019-3093 | 3 | 8 |
| 96906 | MS16562-66 | 5315-00-838-4584 | 24 | 17 |
| 96906 | MS16997-24 | 5305-00-978-9352 | 4 | 32 |
| 96906 | MS16997-43 | 5305-00-978-9353 | 10 | 1 |
| | | | 23 | 1 |
| 96906 | MS16997-95 | 5305-00-978-9390 | 26 | 6 |
| 96906 | MS18153-63 | 5305-00-914-6131 | 23 | 14 |
| 96 906 | MS18154-58 | 5305-00-115-9526 | 21 | 15 |
| 96906 | MS18154-60 | 5305-00-942-2196 | 1 | 28 |
| | | | 20 | 8 |
| | | | 21 | 2 |
| | | 3110-00-183-9946 | 26 | 1 7 |
| 96906 | MS19081-58 MS20470A4-5 | 5320-00-721-5210 | 21 29 | 29 |
| 96906 96906 | MS20470A4-5 MS20913-45 | 4730-00-221-2139 | 20 | 2, 9 |
| 96906 | MS21044-N4 | 5310-00-877-5796 | 29 | 14 |
| 96906 | MS21044-N6 | 3310-00-011-3730 | 24 | 2 |
| 96906 | MS21044-NB MS21044N10 | 5310-00-982-6809 | 28 | 8 |
| 96906 | 4S21044N6 | 5310-00-950-0039 | 23 | 11 |
| 96906 | MS21044N8 | 5310-00-877-5795 | 25 | 28 |
| 96906 | M\$21318-21 | 5305-00-253-5615 | 30 | 1 |
| ,,,,,, | | | 31 | 1 |
| | | | 32 | 1 |
| 96906 | MS21333-105 | 5340-00-809-1494 | 29 | 16 |
| 96906 | NS24629-25 | 5305-00-855-0974 | 1 | 18 |
| 96906 | MS24665-357 | 5315-00-298-1481 | 24 | 22 |
| | | | 35 | 1 |
| 96906 | MS24665-624 | 5315-00-059-0217 | 25 | 22 |
| 96906 | M S 24665-628 | 5315-00-846-0126 | 25 | 7 |
| 96906 | MS27148-3 | 5999-00-926-3144 | 1 | 26 |
| 969 06 | MS 27183-31 | 5310-00-950-1309 | 25 | 6 |
| 96906 | 4528775-012 | 5330-00-584-0265 | 18 | 7 |
| 96906 | MS35190-233 | 5305-00-957-6645 | 4 | 28 |
| 96906 | MS35190-273 | 5305-00-958-5471 | 29 | 24 |
| 96906 | 4 \$ 35206-231 | 5305-00-889-3001 | 5 | 7 |
| 96906 | MS35206-245 | 5305-00-984-6193 | 4 5 | 3 4 |
| 04004 | MC25204 269 | 5305-00-984-6196 | 4 | 34 |
| 96906 96906 | MS35206-248 MS35206-265 | 5305-00-984-6212 | 4 | 15 |
| 96906 | 4535206-279 | 5305-00-988-1723 | 4 | 41 |
| 70700 | 13JJ200 217 | | 7 | 15 |
| | | | 14 | 5 |
| | | | 14 | 5 |
| | | | 17 | 14 |
| | | | 19 | 6 |
| | | | 29 | 1 |
| 96906 | M S 35206-281 | 5305-00-988-1725 | 1 | 8 |
| | | | | |

SECTION IV

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| | | PART NUMBER INDEX | | |
|-------|-----------------|-------------------|----------|----------|
| FSCM | PART NUMBER | STOCK NUMBER | FIG. | ITEM |
| 96906 | MS35206-281 | 5305-00-988-1725 | 17 | 1 |
| | | | 29 | 4 |
| | | | 29 34 | 27 10 |
| 96906 | MS35207-281 | 5305-00-993-2461 | 1 | 27 |
| 90900 | H333201-201 | JJ0J 00 JJJ 2401 | 3 | 13 |
| | | | 29 | 17 |
| 96906 | MS 35266-80 | 5305-00-824-2279 | 5 | 2 |
| 96906 | M S 35333-40 | 5310-00-550-1130 | 5 | 3 |
| 96906 | M\$35335-41 | 5310-00-616-3056 | 1 | 29 |
| 96906 | MS35338-42 | 5310-00-045-3299 | 4 | 17 |
| | | | 4 5 | 30 5 |
| | | | 10 | 2 |
| | | | 23 | 2 2 |
| 96906 | NS35338-43 | 5310-00-045-3296 | 29 | 25 |
| 96906 | M \$ 35338-44 | 5310-00-582-5965 | 1 | 9 |
| | | | 3 | 2 |
| | | | 4 4 | 12 38 |
| | | | 4 5 | |
| | | | 5 | 14 |
| | | | 7 | 4 |
| | | | 9 | 3 |
| | | | 13 | 3 |
| | | | 14 | 4 |
| | | | 14 17 | 4 2 |
| | | | 17 | 13 |
| | | | 19 | 7 |
| | | | 29 | 2 |
| | | | 29 | 19 |
| | | | 33 | 43 |
| 0/00/ | MS35338-45 | 5210-00-607-0566 | 34 | 11 |
| 96906 | H 333338-49 | 5310-00-407-9566 | 1 18 | 6 10 |
| | | | 18 | 17 |
| | | | 29 | 8 |
| | | | 29 | 12 |
| 96906 | MS35338-46 | 5310-00-637-9541 | 18 | 13 |
| | | | 20 21 | 7 14 |
| | | | 24 | 27 |
| | | | 26 | 2 |
| | | | 26 | 5 |
| 96906 | M\$35338-48 | 5310-00-584-5272 | 12 | 3 |
| | | | 25 | 12 |
| | | | 25 | 17 |
| | | | 25 27 | 34 |
| 96906 | M \$ 3 5 3 87-1 | 9905-00-205-2795 | 29 | 23 |
| 70700 | | | 27 | |

| | | PART NUMBER INDEX | | |
|----------------|--|--|----------|---------|
| FSCM | PART NUMBER | STOCK NUMBER | FIG. | ITEM |
| 96906 | M \$ 3 5 3 87-2 | 9905-00-202-3639 | 29 | 28 |
| 96906 | MS35478-1683 | 6240-00-044-6914 | 1 | 13 |
| 96906 | M \$ 3 5 4 8 9 - 3 5 | 5325-00-185-0012 | 3 1 | 9 4 |
| 96906 | MS35649-202 | 5310-00-934-9758 | 1 4 | 4 |
| /0/00 | | | 29 | 26 |
| 96906 | MS35649-282 | 5310-00-934-9757 | 5 | 10 |
| 96906 | MS35691-41 | 5310-00-899-1957 | 14 | 6 |
| 96906 | NS35692-105 | 5310-00-842-7616 | 25 | 8 2 |
| 96906 96906 | MS35746-1 MS35748-1 | 4730-00-595-0083 5330-00-090-2128 | 19 19 | 2 |
| 96906 | MS35755-1 | 4730-00-707-3068 | 24 | 24 |
| 96906 | M\$35782-3 | 4820-00-174-0339 | 20 | 13 |
| 96906 | MS35842-12 | 4730-00-908-3193 | 16 | 2 |
| 96906 | M \$ 39020- 1 | 9905-00-752-4649 | 4 | 6 |
| | | | 4 | 22 |
| 96906 | MS51329-1 | 6220-00-669-5623 | 1 | 11 |
| 96906 96906 | MS51377-1 | 2640-00-810-5861 5330-01-067-9691 | 22 21 | 3 6 |
| 96906 | MS51920-21-2 MS51922-21 | 5310-00-959-1488 | 21 | 0 7 |
| 96906 | MS51953-33 | 4730-00-196-1486 | 34 | 3 |
| 96906 | MS51959-46 | 5305-00-764-0070 | 2 | 2 |
| 96906 | MS51964-84 | 5305-00-725-3525 | 10 | 12 |
| 969 06 | MS51967-2 | 5310-00-761-6882 | 4 | 13 |
| | | | 4 | 39 |
| | | | 5 | 9 |
| | | | 5 7 | 12 3 |
| 96906 | MS51967-8 | 5310-00-732-0558 | 18 | 12 |
| 96906 | MS51968-14 | 5310-00-732-0560 | 12 | 2 |
| | | | 27 | 1 |
| 96906 | MS51968-2 | 5310-00-768-0319 | 1 | 30 |
| 0/00/ | | 5310-00 200 77 ((| 3 | 5 11 |
| 96906 | MS 51 968-5 | 5310-00-880-7746 | 10 18 | 11 |
| | | | 33 | 44 |
| 96906 | MS51968-8 | 5310-00-732-0559 | 20 | 6 |
| | | | 24 | 26 |
| 96906 | MS51984-2 | 5310-00-136-1467 | 22 | 5 |
| 96906 | MS52125-2 | 6220-01-093-4439 | 3 | 6 |
| 96906 | MS521301A20412 | 4720 -00-809-2750 2530 -00-021-2366 | 16 18 | 3 |
| 96906 96906 | M S 5 3 0 0 4 - 2 M S 5 3 0 0 7 - 1 | <u>2530-00-021-2388</u> 9905-00-999-7370 | 32 | 14 4 |
| 96906 | H\$53007-2 | 9905-00-999-7369 | 32 | 5 |
| 96906 | MS53047-1 | 6220-00-500-0437 | 1 | 12 |
| 96906 | MS75020-1 | 5935-00-059-2841 | 4 | 27 |
| | | | 6 | 2 |
| 96906 | MS75020-2 | 5935-00-914-0822 | 6 | 5 |
| 96906 | MS75021-1 | 5935-00-846-3883 | 4 | 5 |
| 96906 | MS75021-2 | 5935-00-846-3884 | 7 8 | 6 2 |
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| 96906 | MS9025-03 | 5340-00-811-3025 | 34 | 4 |
| 96906 | M S 9 0 2 5 - 0 7 | 5340-00-051-2668 | 7 | 17 |
| | | | 14 | 3 |
| | | | 14 | 3 3 |
| | | | 17 | |
| | | | 17 | 15 |
| | | | 19 | 8 |
| 96906 | MS9048-143 | 5315-00-687-3790 | 24 | 15 5 |
| 96906 | 4 S 9048- 1 72 M S 90725- 5 | 5305-00-068-0501 | 24 | 15 |
| 96906 96906 | M S 90725-6 | 5305-00-068-0502 | 5 4 | 37 |
| 90900 | H 3 90 12 J= 8 | JJ0J-00-000-0J02 | 7 | 1 |
| | | | 9 | 4 |
| | | | 13 | 2 |
| | | | 17 | 7 |
| | | | 19 | 13 |
| | | | 29 | 18 |
| 96906 | MS90726-113 | 5305-00-725-4183 | 25 | 35 |
| 96906 | MS90726-33 | 5306-00-225-9088 | 18 | 2 |
| 96906 | MS90726-34 | 5306-00-225-9089 | 18 | 18 |
| 96906 | MS90726-36 | 5305-00-225-9091 | 33 | 45 |
| 96906 96906 | MS90727-11 MS90727-111 | 5305-00-267-8955 5305-00-719-5219 | 12 25 | 5 13 |
| 96906 | MS90727-114 | 5305-00-719-5235 | 12 | 4 |
| ,0,00 | 4570727 114 | | 25 | 26 |
| 96906 | MS90727-119 | 5305-00-719-5243 | 25 | 18 |
| 96906 | MS90727-32 | 5306-00-050-1238 | 29 | 9 |
| | | | 29 | 11 |
| 96906 | M 590727-4 | 5305-00-068-0512 | 3 | 1 |
| 96906 | MS90727-69 | 5305-00-269-3245 | 1 | 7 |
| 96906 | MS90727-70 | 5305-00-269-3246 | 24 | 4 |
| 81349 | M13486-1-5 | 6145-00-152-6499 | 8 | 11 |
| 81349 | M13486/10-1 | 6145-00-705-6684 | BULK | 2 24 |
| 81349 | M 43436-1-3 | 9905-00-893-3570 | 4 | 24 4 |
| 81349 | N43436/1-1 | 9905-00-752-4649 | 6 7 | 14 |
| 01347 | 1-1 1064644 | 7705 00 752 4047 | 8 | 6 |
| 81349 | M43436/1-3 | 9905-00-893-3570 | ž | 9 |
| | | | 8 | 5 |
| 80205 | NAS1611-123 | 5330-01-094-5104 | 16 | 2 |
| 80205 | NAS561P 6-32 | 5315-00-816-5813 | 23 | 15 |
| 05842 | P146-11B | 5330-00-220-6994 | 33 | 14 |
| 20805 | P146-50 | | 33 | 10 |
| 07505 | P146-75 | 5330-00-677-2359 | 33 33 | 13 39 |
| 05842 20805 | P 307-18 P 307-190 | 1730-00-303-1089 | 33 | 21 |
| 07505 | P 307-900 | 4820-00-349-8952 | 33 | 17 |
| 26952 | P60-11 | 5340-00-371-6507 | 33 | 31 |
| 07505 | P 60-12 | 2340 00 31L-0301 | 33 | 37 |
| 81348 | RR-C-271-2TYPEI | I | 25 | 30 |
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| 81349 | RRC281AGRCCL3 | | 25 | 31 |
| 73842 | TR VC 2 | 2640-00-060-3550 | 22 | 4 |
| 81348 | W-L-00111/60 | 6240-00-155-8717 | 1 2 | 21 5 |
| 05842 | W12-16 | 3110-00-100-6155 | 33 | 27 |
| 33116 | X1023R | 5310-00-391-0687 | 21 | 16 |
| 81348 | ZZ-I-550/GP3/7.0 0-16/TR15CW/0FFC | 2610-00-269-7332 | 22 | 2 |
| 81348 | ZZ-T-381-N/GP2/7 •00-16/D/LTMS | 2610-00-204-4228 | 22 | 1 |
| 92867 | 01060500 | 2530-00-069-9427 | 14 | 1 |
| 40121 | 081387-12 | 2530-01-270-7967 | 21 | 17 |
| 89346 | 100202HA | 2530-00-621-6330 | 15 | 13 |
| 19207 | 10861507 | 2530-00-119-3725 | 16 | 5 |
| 19207 | 10900257 | 4730-00-911-5645 | 18 | 15 |
| 19207 | 10900442 | 4730-01-055-8314 | 17 | 17 |
| 18876 | 11030936-1 | 5305-00-952-4721 | 33 | 24 |
| 19207 | 11602310 | | 4 | 26 |
| 19207 | 11602311 | 5935-01-115-5101 | 4 | 25 |
| 19207 | 11602348 | 4730-01-049-2696 | 19 | 11 |
| 19207 | 11602349 | 5340-01-051-3444 | 28 | 4 |
| 19207 | 11602350-1 | 5315-01-195-8025 | 24 | 8 |
| 19207 | 11602350-2 | 5315-01-136-7182 | 24 | 18 |
| 19207 | 11602350-3 | 5315-00-165-8480 | 35 | 13 |
| 19207 | 11602350-4 | 5315-00-165-8481 | 35 | 12 |
| 19207 | 11602353 | 4820-01-026-9997 | 34 | 1 |
| 19207 | 11602355 | 5365-01-134-0922 | 13 | 4 |
| 19207 | 11602357-1 | 2590-00-077-0447 | 14 | 2 |
| 19207 | 11602357-2 | 2590-00-077-0448 | 14 | 2 |
| 19207 | 11602362 | 2530-01-109-4751 | 20 | 10 |
| 19207 | 11602364 | 5365-01-180-9924 | 24 | 28 |
| 19207 | 11602365 | 2510-00-782-1896 | 26 | 4 |
| 19207 | 11602369 | | 4 | 16 |
| 19207 | 11602476 | 4730-01-110-4773 | 34 | 2 |
| 19207 | 11602478 | 4730-01-049-5339 | 19 | 4 |
| 2,201 | | | 20 | 12 |
| 19207 | 11602492 | | 15 | 16 |
| 19207 | 11602496 | 2530-01-024-6887 | 15 | 8 |
| 19207 | 11602497 | | 15 | lõ |
| 19207 | 11602521 | | 24 | 19 |
| 19207 | 11602666 | 4720-01-098-3277 | 17 | 10 |
| 19207 | 11612101 | | 31 | 6 |
| 19207 | 11612108 | | 28 | 2 |
| 19207 | 11612110-1 | 3120-01-098-1613 | 10 | 7 |
| | | | 23 | 6 |
| 19207 | 11612110-3 | 3120-00-122-5002 | 23 | 18 |
| 19207 | 11612113 | 5315-01-055-4478 | 23 | 7 |
| 19207 | 11612116 | | 1 | 5 |
| 19207 | 11612123-2 | 5315-00-480-3578 | 24 | 14 |

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| 19207 | 11612143 | 5310-01-057-0402 | 28 | 5 |
| 19207 | 11612162 | | 4 | 8 |
| 19207 | 11612164 | 5330-01-042-8881 | 4 | 35 |
| 19207 | 11612165 | | 4 | 31 |
| 19207 | 11612169 | 2530-01-040-4208 | 29 | 32 |
| 19207 | 11612174 | | 1 | 3 |
| 19207 | 11612175 | | 1 | 3 |
| 19207 | 11612182 | 5315-01-098-1791 | 10 | 5 |
| 19207 | 11612184 | 3120-00-930-5616 | 10 | 10 |
| 19207 | 11612190 | 4710-00-070-9812 | 19 | 10 |
| 19207 | 11612191 | 5340-01-060-7217 | 24 | 13 |
| 19207 | 11612192 | | 19 | 12 |
| 19207 | 11612193 | | 19 | 17 |
| 19207 | 11612194-2 | 2540-00-124-9157 | 25 | 20 |
| 19207 | 11612195 | 5360-00-486-0415 | 25 | 25 |
| 19207 | 11612196 | | 23 | 9 |
| 19207 | 11612202 | 5365-01-180-9955 | 24 | 29 |
| 19207 | 11612205 | 2530-00-600-9158 | 33 | 42 |
| 19207 | 11612209 | 5340-01-055-8837 | 17 | 9 |
| 19207 | 11612220-1 | 2530-00-076-5045 | 12 | 1 |
| 19207 | 11612220-2 | 2530-00-076-5178 | 12 | 1 |
| 19207 | 11612221 | 2530-01-054-4305 | 28 | 6 |
| 16128 | 11612224 | 2590-00-035-6281 | 4 | 21 |
| 19207 | 11612228 | | 24 | 9 |
| 19207 | 11612230 | | 24 | 7 |
| 19207 | 11612234 | | 23 | 10 |
| 19207 | 11612239 | 4710-01-296-0469 | 34 | 6 |
| 19207 | 11612241 | | 19 | 17 |
| 19207 | 11612242 | 4710-00-501-7264 | 17 | 5 |
| 19207 | 11612243 | 4710-00-070-9809 | 17 | 4 |
| 19207 | 11612244 | | 25 | 27 |
| 19207 | 11612247 | 9905-00-108-6215 | 32 | 3 |
| 19207 | 11612251 | 2540-01-048-6241 | 29 | 21 |
| 19207 | 11612252 | 4720-01-098-3278 | 34 | 3 |
| 19207 | 11612253-1 | 4720-01-053-5120 | 19 | 14 |
| 19207 | 11612253-2 | 4720-01-099-9625 | 19 | 9 |
| 19207 | 11612255 | 2530-01-042-3693 | 23 | 8 |
| 19207 | 11612259-1 | 2530-01-258-8093 | 10 | 8 |
| 19207 | 11612259-3 | | 10 | 8 |
| 19207 | 11612262 | 5340-01-168-4200 | 29 | 6 |
| 19207 | 11612267 | 2510-00-076-6971 | 13 | L |
| 19207 | 11612268 | 2530-00-076-8599 | 9 | 1 |
| 19207 | 1161227-1 | | 24 | 20 |
| 19207 | 11612271-2 | 2530-01-254-4962 | 24 | 20 |
| 19207 | 11612274 | | 11 | 1 |
| 19207 | 11612276 | 5340-01-278-6283 | 29 | 22 |
| 19207 | 11612279-1 | 2530-00-139-3496 | 10 | 6 |
| 19207 | 11612279-2 | 2530-00-139-3497 | 10 | 6 |
| 19207 | 11612280-1 | 2530-01-037-4978 | 21 | 1 |
| 19207 | 11612280-2 | 2530-01-132-1383 | 21 | 1 |
| 19207 | 11612281-1 | 25 <u>30</u> -01-150-4998 | 21 | 1 |
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| 19207 | 11612281-2 | 2530-01-150-4999 | 21 | 1 | |
| 16128 | 11612283 | 2590-00-201-3085 | 4 | 1 | |
| 19207 | 11612289 | 5340-01-259-7613 | 29 | 23 | |
| 19207 | 11612290 | 2540-01-257-3863 | 29 | 20 | |
| 19207 | 11612291 | | 1 | 22 | |
| 19207 | 11612292-1 | | 4 | 33 | |
| 19207 | 11612292-2 | | 4 | 29 | |
| 19207 | 11612293 | | 4 | 2 | |
| 19207 | 11612306 | 5315-01-156-8849 | 24 | 16 | |
| 19207 | 11612307 | 3120-01-113-0648 | 24 | 25 | |
| 19207 | 11612309 | | 4 | 40 | |
| 19207 | 11612312-1 | | 25 | 16 | |
| 19207 | 11612312-2 | | 25 | 15 | |
| 19207 | 11612313 | | 25 | 14 | |
| 19207 | 11612316 | | 25 | 3 | |
| 19207 | 11612317 | 2540-00-076-8621 | 25 | 2 | |
| 19207 | 11612318 | | 25 | 4 | |
| 19207 | 11612320 | | 25 | 5 | |
| 19207 | 11612323 | 57/5 01 111 1521 | 25 | 11 | |
| 19207 | 11612331 | 5365-01-111-1521 | 10 | 3 | |
| 19207 | 11612332 | 5330-00-501-9486 | 23 10 | 9 4 | |
| 19201 | 11012552 | JJJ0-00-J01-9400 | 23 | 4 | |
| 19207 | 11612334 | 3120-00-486-0413 | 23 | 5 | |
| 19207 | 11612336 | 5120 00-488-0415 | 4 | 36 | |
| 19207 | 11620979 | | 1 | 23 | |
| 19207 | 11620983 | | 1 | 20 | |
| 19207 | 11620987 | 6220-00-221-5899 | 1 | 19 | |
| 19207 | 11621410 | 0220 00 221 9077 | 4 | 14 | |
| 19207 | 11636686-1 | 5315-01-061-4972 | 24 | 12 | |
| 19207 | 11636686-2 | | 25 | 24 | |
| 19207 | 11639519-2 | 5330-00-462-0907 | 3 | 12 | |
| 19207 | 11639520 | 2510-01-067-4717 | 3 | | |
| 19207 | 11639535 | 6220-00-179-4324 | 3 | 11 | |
| 19207 | 11647935 | 3120-01-055-3956 | 24 | 21 | |
| 19207 | 11647936 | 5310-01-056-5125 | 28 | 7 | |
| 19207 | 11647976 | 5365-01-044-3502 | 27 | 6 | |
| 19207 | 11647981 | 9905-00-114-4630 | 30 | 3 | |
| 19207 | 11647982 | 9905-00-108-6219 | 31 | 2 | |
| 19207 | 11647983 | 9905-00-108-6216 | 31 | 4 | |
| 19207 | 11647984 | 9905-00-108-6205 | 31 | 7 | |
| 19207 | 11647985 | 9905-00-159-0023 | 30 | 2 | |
| 19207 | 11647986 | 9905-00-117-0257 | 30 | 4 | |
| 19207 | 11647987 | | 31 | 5 | |
| 19207 | 11648010 | 4720-00-071-1449 | 17 | 16 | |
| 19207 | 11652332 | 5340-01-025-5187 | 24 | 3 | |
| 19207 | 11652335 | 3040-00-076-8670 | 35 | 2 | |
| 19207 | 11652336 | 2510-00-279-8429 | 24 | 1 | |
| 19207 | 11652340 | 5365-01-056-3317 | 28 | 3 | |
| 19207 | 11677565 | 4720-00-071-1450 | £7 | 11 | |
| 19207 | 11682039 | 5340-01-142-9728 | 29 | 10 | |
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| 19207 | 11682073 | 2590-00-078-2929 | 6 | 1 |
| 19207 | 11682075 | 2590-00-078-2930 | 8 | 1 |
| 19207 | 11682076 | 4710-00-071-1507 | 17 | 4 |
| | | | 17 | 5 |
| | | | 17 | 12 |
| 19207 | 11682089 | 4720-01-269-8389 | 19 | 5 |
| 19207 | 11682097 | 5306-00-165-8284 | 28 | 1 |
| 19207 | 11682100 | 9905-01-191-6032 | 32 | 2 |
| 19207 | 11682104-1 | | 4 | 9 |
| 19207 | 11682104-2 | | 4 | 10 |
| 19207 | 11682104-3 | | 4 | 11 |
| 19207 | 11686280 | 5310-00-874-2922 | 15 | 7 |
| | | | 15 | 12 |
| 73842 | 120-099-620 | 2610-00-640-3968 | 22 | 1 |
| 19207 | 12250089-1 | 25/0 00 122 1207 | 25 | 21 |
| 19207 | 12250150 | 2540-00-132-1307 2540-00-582-5407 | 25 25 | 10 1 |
| 19207 | 12250162 | | 23 | 16 |
| 19207 | 12250163 | 2530-00-138-8591 | 29 | 10 |
| 19207 | 12250480 | 2540-01-020-6084 2590-01-046-0903 | 29 4 | 20 |
| 19207 | 12255351 | 2 590-01-046-0903 | + 5 | 20 |
| | 10055750 | | 5 | 13 |
| 19207 19207 | 12255352 12255353 | 2590-01-043-8301 | | 4 |
| 19207 | 12233333 | | 5 | 11 |
| 19207 | 12255388 | 5340-01-048-8660 | 3 | 4 |
| 19207 | 12255389 | 2530-01-057-6225 | 13 | 5 |
| 19207 | 12313038 | | 26 | 5 3 |
| 06853 | 202586 | 5340-01-020-6110 | 20 | 3 |
| 06853 | 203888 | 5310-00-119-4801 | 20 | 5 |
| 97499 | 204-070-481-1 | | 25 | 32 |
| 33116 | 20441 | 5310-00-391-0688 | 21 | 16 |
| 87373 | 212T-4-4 | | 34 | 5 |
| 06853 | 214884 | 5305-00-810-6653 | 20 | 2 |
| 06853 | 2230700 | 2530-01-183-2718 | 16 | 4 |
| 06853 | 2230701 | 2530-01-180-8654 | 16 | 4 |
| 14894 | 301055 | 2530-01-124-5454 | 15 | 27 |
| 14892 | 307651 | 2530-00-930-5624 | 15 | 9 |
| 14892 | 307652 | | 15 | 9 |
| 06853 | 307653 | | 15 | 11 |
| 06853 | 307654 | | 15 | 11 |
| 14892 | 309992 | 2530-00-930-4859 | 15 | 15 |
| 06853 | 311309 | 5360-00-930-5649 | 15 | 19 23 |
| 06853 | 311538L | 2530-00-930-5618 | 15 15 | 24 |
| 06853 | 312165 | | 15 | 24 |
| 06853 | 312166 | 2530-00-138-8172 | 15 | 24 |
| 14892 | 312168 | 2530-01-183-2647 | 15 | 20 |
| 14892 | 315231 | 2530-01-183-2648 | 15 | 20 |
| 14892 | 315232 315256 | 4010-00-930-5641 | 15 | 18 |
| 06853 06853 | 315684R | 2530-00-930-5633 | 15 | 4 |
| 06853 | 315898 | 2530-00-930-5638 | 15 | 14 |
| 00000 | 717070 | | * 2 | 4 ' |

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| 06853 | 31629 | 5360-00-930-5645 | 15 | 5 |
| 06853 | 316816 | | 15 | 29 |
| 06853 | 318459 | 2530-00-930-5648 | 15 | 4 |
| 14892 | 3203006 | | 15 | 22 |
| | | 2530-01-094-9005 | 15 | 23 |
| 14894 | 3203007 | 2530-01-094-9006 | 15 | 22 |
| 14892 | 322767 | 2530-01-132-9085 | 15 | 1 |
| 14892 | 322768 | 2530-01-115-8128 | 15 | 1 |
| 06853 | 322771 | 3040-01-183-2761 | 15 | 26 |
| 06853 | 322772 | 2530-01-257-1609 | 15 | 26 |
| 06853 | 39244 | 5360-00-930-5644 | 15 | 25 |
| 76110 | 401265 | 5310-00-311-4304 | 27 | 3 |
| 14892 | 41029 | 2530-00-621-6330 | 15 | 6 |
| 24617 | 423560 | 5305-00-042-3560 | 15 | 3 |
| 23382 | 4303 | 5310-00-680-7297 | 20 | 4 |
| 80201 | 504268 | 5330-00-923-2413 | 35 | 11 |
| 21450 | 506207 | 5940-00-050-6207 | 4 | 7 |
| | | | 4 | 23 |
| 21450 | 506209 | 5940-00-050-6209 | 7 | 10 |
| | | | 8 | 10 |
| 19207 | 5160323 | 5310-00-209-1761 | 17 | 19 |
| 19204 | 5214539 | 5310-00-275-6635 | 17 | 18 |
| 24835 | 5300082 | 6220-00-930-5678 | 1 | 17 |
| 19207 | 5303476 | | 15 | 2 |
| 19207 | 5304039 | | 15 | 17 |
| 24835 | 5600099 | 5340-00-930-5669 | 33 | 1 |
| 16128 | 5600312-501 | | 35 | 3 |
| 16128 | 5600313-001 | 4730-01-044-9454 | 35 | 10 |
| 16128 | 5600314-501 | | 35 | 9 |
| 16128 | 5600315-001 | 3040-01-045-2270 | 35 | 8 |
| 16128 | 5600316-001 | | 35 | 6 |
| 16128 | 5600317-001 | 3040-01-044-8319 | 35 | 5 |
| 76110 | 57091 | 2540-00-930-5634 | 27 | 5 |
| 81343 | 6-4 1202028A(LON G NUT) | 4730-00-069-1187 | 19 | 19 |
| 99343 | 642775 | 2530-00-045-9425 | 21 | 5 |
| 24835 | 6600045 | 2590-00-930-5662 | 7 | 5 |
| 24835 | 6600057 | 4010-00-930-5651 | 25 | 29 |
| 24835 | 6967006-009 | 4720-00-930-5628 | 19 | 15 |
| 19207 | 7001423 | 5340-00-700-1423 | 15 | 28 |
| 19207 | 7014963 | 5340-00-496-2587 | 20 | 1 |
| 19207 | 7056684-25 | 5510 00 170 2501 | 6 | 3 |
| 19207 | 7059149 | 5310-00-655-9542 | 27 | 4 |
| 19207 | 7073209 | 2540-00-835-9039 | 25 | 33 |
| 19207 | 7320658 | 5330-00-297-7106 | 1 | 15 |
| 19207 | 7331739 | 2530-00-733-1739 | 21 | 8 |
| 19204 | 7350907 | 4730-00-278-3912 | 18 | 16 |
| 19207 | 7371106 | 5310-00-737-1106 | 21 | 10 |
| 19207 | 7371109 | 5330-00-737-1109 | 21 | 12 |
| 19207 | 7373354 | 5330-00-737-3354 | 16 | 3 |
| 19207 | 7375862 | 5306-00-737-5862 | 21 | 4 |
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| 19207 | 7375863 | 5306-00-737-5863 | 21 | 4 |
| 19207 | 7377783 | 2530-00-737-7783 | 18 | 4 |
| 19207 | 7526020 | 6220-00-752-6020 | 1 | 16 |
| 19207 | 7536271 | 4730-00-753-6271 | 19 | 3 |
| 19207 | 7696520 | 5310-00-769-6520 | 21 | 9 |
| 19207 | 7696521 | 5310-00-769-6521 | 21 | 11 |
| 19207 | 7722333 | 5365-00-090-5426 | 7 | 7 |
| | | | 8 | 3 |
| 19207 | 7723309 | 5310-00-393-6685 | 7 | 8 |
| 10007 | 7721/20 | | 8 | 4 |
| 19207 | 7731428 | 5935-00-773-1428 | 4 | 19 |
| | | | 5 7 | 6 |
| 10207 | 7725200 | E2/E 00 0// 2002 | | 2 |
| 19207 | 7735289 | 5365-00-864-2993 5340-00-033-6209 | 17 | 6 |
| 19206 19207 | 7735821 | | 21 | 13 |
| 19207 | 7979373 7979599 | 9905-00-282-7489 | 31 | 3 5 3 |
| 97554 | 7979602 | 1095-01-162-0352 | 18 | 2 |
| 19207 | 7979605 | 2530-00-192-8824 2530-00-192-8928 | 18 | 9 |
| 19207 | 7979608 | | 18 | 8 |
| 19207 | | 5360-00-700-4429 | 18 | |
| | 7979610 | 5340-00-178-1441 | 18 | 6 |
| 63477 19207 | 7979691 7979851 | 4730-00-773-2163 | 16 | 2 |
| 15434 | 8169006 | 5340-01-189-6405 4730-00-278-3912 | 29 34 | 13 7 |
| 19207 | 8328782 | 4730-00-278-6318 | 19 | |
| 19207 | 8338561 | 5935-00-833-8561 | 7 | 16 11 |
| 17201 | 8338301 | 5435-00-855-8561 | 8 | 9 |
| 19207 | 8338562 | 5970- 00-833-8562 | 7 | 12 |
| 17207 | 0330302 | 5910 00 055 0502 | | 8 |
| 19207 | 8338563 | 5940-00-846-5012 | 8 7 | 13 |
| 04939 | 8338564 | 5940-00-399-6676 | . 8 | 7 |
| 19207 | 8338566 | 5935-00-572-9180 | ĩ | 2 |
| 19207 | 8357980 | 2530-00-204-4800 | 16 | 1 |
| 19207 | 8357981 | 2530-00-293-5139 | 18 | 1 |
| 19207 | 8365426 | 4710-00-511-1692 | 16 | Ĩ |
| 19207 | 8365771 | 4730-00-035-8036 | 34 | 8 |
| 19207 | 8537648 | 4030-00-431-5536 | 24 | 10 |
| | | | 29 | 34 |
| 19207 | 8689208 | | BULK | 1 |
| 19207 | 8694464 | 5330-00-678-9047 | 2 | 4 |
| 19207 | 8722870 | 5340-00-860-0555 | 7 | 18 |
| 19207 | 8722944 | 2590-00-418-0893 | 7 | 16 |
| 19207 | 8724495 | 5935-00-691-5591 | 1 | 24 |
| 19207 | 8724497 | 5310-00-656-0067 | l | 1 |
| | | | 1 | 25 |
| 19207 | 8741645 | | 2 | 1 |
| 19207 | 8741646 | 6220-00-775-2384 | 2 2 2 | 3 |
| 19207 | 8741650 | 6220-00-433-5966 | 2 | 6 |
| 19207 | 8743065 | 4730-00-580-7417 | 20 | 11 |
| 19207 | 8747908-1 | 2590-00-529-6199 | 3 | 3 |
| 19207 | 8762000 | 4730-01-053-8468 | 17 | 20 |
| | | | | |

| | | PART NUMBER INDEX | | |
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| FSCM | PART NUMBER | STOCK NUMBER | FIG. | ITEM |
| 79500 | 921B211-1 | 5975-00-074-2072 | 8 | 12 |
| 22852 | 934490 | 2530-00-463-3648 | 21 | 17 |
| 34623 | 937952 | 2530-00-456-9326 | KIT | |
| 00198 | 93938 | 5310-00-148-4757 | 33 | 25 |
| 94404 | 995-262 | 5310-00-298-5502 | 33 | 38 |

| | | FIGURE AND ITEM | | |
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| FIG. | ITEM | STOCK NUMBER | FSCM | PART NUMBER |
| BULK | 1 | | 19207 | 8689208 |
| BULK | 2 | 6145-00-705-6684 | 81349 | M13486/10-1 |
| BULK | 3 | 9515-00-204-3967 | 81346 | ASTM A569 |
| KIT | | 2530-00-456-9326 | 34623 | 937952 |
| KIT | | 3040-0 0-9 30-5650 | 26952 | KC1510-73-05 |
| KIT | | 4940-00-186-3199 | 26952 | KH2000 |
| 1 | 1 | 5310-00-656-0067 | 19207 | 8724497 |
| 1 | 2 | 5935-00-572-9180 | 19207 | 8338566 |
| 1 | 3 | | 19207 | 11612174 |
| 1 | 3 | | 19207 | 11612175 |
| 1 | 4 | 5325-00-185-0012 | 96906 | MS35489-35 |
|] | 5 | | 19207 | 11612116 |
| 1 | 6 | 5310-00-407-9566 | 96 9 0 6 | MS35338-45 |
| 1 | 7 | 5305-00 - 269-3245 | 96906 | MS90727-69 |
| 1 | 8 | 5305-00-988-1725 | 96 906 | MS35206-281 |
| 1 | 9 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 1 | 10 | 5310-00-141-1795 | 88044 | AN960-416 |
| 1 | 11 | 6220-00-669-5623 | 96 9 06 | MS51329-1 |
| 1 | 12 | 6220-00-500-0437 | 96906 | MS53047-1 |
| 1 | 13 | 6240-00-044-6914 | 96906 | MS35478-1683 |
| 1 | 14 | 6240-00-019-0877 | 96906 | MS15570-1251 |
| 1 | 15 | 5330-00-297-7106 | 19207 | 7320658 |
| 1 | 16 | 6220-00-752-6020 | 19207 | 7526020 |
| 1 | 17 | 6220-00-930-5678 | 24835 | 5300082 |
| 1 | 18 | 53 05-00-855-0974 | 96 9 06 | MS24629-25 |
| 1 | 19 | 6220-00-221-5899 | 19207 | 11620987 |
| 1 | 20 | | 19207 | 11620983 |
| 1 | 21 | 6240-00-155-8717 | 81 348 | W-L-00111/60 |
| 1 | 22 23 | | 19207 | 11612291 11620979 |
| 1 | 23 | 5935-00-691-5591 | 19207 19207 | 8724495 |
| 1 | 25 | 5310-00-656-0067 | 19207 | 8724497 |
| 1 | 26 | 5999-00-926-3144 | 96906 | MS27148-3 |
| i | 27 | 5305-00-993-2461 | 96 906 | M\$35207-281 |
| 1 | 28 | 5305-00-942-2196 | 96906 | MS18154-60 |
| i | 29 | 5310-00-616-3056 | 96906 | MS35335-41 |
| ì | 30 | 5310-00-768-0319 | 96906 | MS51968-2 |
| 2 | 1 | | 19207 | 8741645 |
| 2 | 2 | 5305-00-764-0070 | 96906 | MS51959-46 |
| 2 | 3 | 6220-00-775-2384 | 19207 | 8741646 |
| 2 | 4 | 5330-00-678-9047 | 19207 | 8694464 |
| 2 | 5 | 6240-00-155-8717 | 81 348 | W-L-00111/60 |
| 2 | 6 | 6220-00-433-5966 | 19207 | 8741650 |
| 3 | 1 | 5305-00-068-0512 | 96906 | MS90727-4 |
| 3 | 2 | 5310-00-582-5965 | 96 906 | MS35338-44 |
| 3 3 3 | 3 | 2590-00-52 9- 6199 | 19207 | 8747908-1 |
| 3 | 4 | 5340-01-048-8660 | 19207 | 12255388 |
| 3 | 5 | 5310-00-768-0319 | 96906 | MS51968-2 |
| 3 | 6 | 6220-01-093-4439 | 96906 | MS52125-2 |
| 3 | 7 | 2510-01-067-4717 | 19207 | 11639520 |
| 3 | 8 | 6240-00-019-3093 | 96906 | MS15570-623 |

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| FIG. | ITEM | STOCK NUMBER | FSCM | PART NUMBER |
| | | | | |
| 3 | 9 | 6240-00-044-6914 | 96 9 0 6 | MS35478-1683 |
| 3 | 10 | 6240-00-019-0877 | 96 906 | MS15570-1251 |
| 3 | 11 | 6220-00-179-4324 | 19207 | 11639535 |
| 3 3 | 12 | 5330-00-462-0907 | 19207 | 11639519-2 |
| | 13 | 5305-00-993-2461 | 96906 | MS35207-281 |
| 4 | 1 | 2590-00-201-3085 | 16128 | 11612283 |
| 4 4 | 2 | E20E 00 00/ (102 | 19207 | 11612293 |
| | 3 | 5305-00-984-6193 | 96906 | MS35206-245 |
| 4 | 4 | 2590-01-043-8301 | 19207 | 12255353 |
| 4 | 5 6 | 5935-00-846-3883 | 96906 | MS75021-1 |
| 4 | 8 7 | 9905-00-752-4649 | 96906 | MS39020-1 |
| 4 | | 5940-00-050-6207 | 21450 | 506207 |
| 4 4 | 8 9 | | 19207 | 11612162 |
| 4 | 10 | | 19207 | 11682104-1 |
| 4 | 11 | | 19207 19207 | 11682104-2 11682104-3 |
| 4 | 12 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 4 | 13 | 5310-00-761-6882 | 96 906 | MS51967-2 |
| 4 | 14 | JJI0-00-101-0882 | 19207 | 11621410 |
| 4 | 15 | 5305-00-984-6212 | 96 9 0 6 | MS 35206-265 |
| 4 | 16 | JJUJ 00 J04 0212 | 19207 | 11602369 |
| 4 | 17 | 5310-00-045-3299 | 96906 | MS35338-42 |
| 4 | 18 | 5310-00-934-9758 | 96906 | MS35649-202 |
| 4 | 19 | 5935-00-773-1428 | 19207 | 7731428 |
| 4 | 20 | 2590-01-046-0903 | 19207 | 12255351 |
| 4 | 21 | 2590-00-035-6281 | 16128 | 11612224 |
| 4 | 22 | 9905-00-752-4649 | 96 9 0 6 | MS39020-1 |
| 4 | 23 | 5940-00- 050-620 7 | 21450 | 506207 |
| 4 | 24 | 9905-00-893-3570 | 81349 | M43436-1-3 |
| 4 | 25 | 5935-01-115-5101 | 19207 | 11602311 |
| 4 | 26 | | 19207 | 11602310 |
| 4 | 27 | 5935-00-059-2841 | 96 906 | MS75020-1 |
| 4 | 28 | 5305-00-957-6645 | 96 9 0 6 | MS35190-233 |
| 4 | 29 | | 19207 | 11612292-2 |
| 4 | 30 | 5310-00-045-3299 | 96906 | MS35338-42 |
| 4 | 31 | 5305 00 070 0350 | 19207 | 11612165 |
| 4 | 32 | 5305-00-978-9352 | 96906 | MS16997-24 |
| 4 | 33 34 | 5205 00 004 4104 | 19207 | 11612292-1 |
| 4 4 | 35 | 5305-00-984-6196 5330-01-042-8881 | 96906 19207 | MS35206-248 11612164 |
| 4 | 36 | 5350-01-042-8881 | 19207 | 11612336 |
| 4 | 37 | 5305-00-068-0502 | 96906 | MS90725-6 |
| 4 | 38 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 4 | 39 | 5310-00-761-6882 | 96 9 0 6 | MS51967-2 |
| 4 | 40 | | 19207 | 11612309 |
| 4 | 41 | 5305-00-988-1723 | 96906 | MS35206-279 |
| 5 | 1 | 2590-01-046-0903 | 19207 | 12255351 |
| 5 | 2 | 5305-00-824-2279 | 96906 | MS35266-80 |
| 5 | 3 | 5310-00-550-1130 | 96 906 | MS 35333-40 |
| 5 | 4 | 5305-00-984-6193 | 96 906 | MS35206-245 |
| 5 | 5 | 5310-00-045-3299 | 96906 | MS35338-42 |
| | | | | |

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| - | | 5075 00 777 1420 | 19207 | 7731428 |
| 5 | 6 7 | 5935-00-773-1428 5305-00-889-3001 | 96 9 06 | MS35206-231 |
| 5 | 8 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 5 | | 5310-00-761-6882 | 96 906 | MS51967-2 |
| 5 | 9 | 5310-00-934-9757 | 96906 | MS35649-282 |
| 5 5 5 5 5 5 5 5 5 | 10 | 2590-01-043-8301 | 19207 | 12255353 |
| 5 | 11 12 | 5310-00-761-6882 | 96906 | MS51967-2 |
| 2 E | 12 | 9310-00-101-0882 | 19207 | 12255352 |
| う 5 | 13 | 5310-00-582-5965 | 96 906 | MS35338-44 |
| 5 | 15 | 5305-00-068-0501 | 96906 | MS90725-5 |
| 6 | 1 | 2590-00-078-2929 | 19207 | 11682073 |
| 6 | 2 | 5935-00-059-2841 | 96 906 | MS75020-1 |
| | 3 | J J J J V V V V Z V I | 19207 | 7056684-25 |
| 6 | | 9905-00-893-3570 | 81349 | M43436-1-3 |
| 6 6 | | 5935-00-914-0822 | 96906 | MS75020-2 |
| 7 | 5 1 | 5305-00-068-0502 | 96 906 | MS90725-6 |
| | 2 | 5935-00-773-1428 | 19207 | 7731428 |
| 7 7 | 2 3 | 5310-00-761-6882 | 96 906 | MS51967-2 |
| 7 | 4 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 7 | 5 | 2590-00-930-5662 | 24835 | 6600045 |
| 7 | 6 | 5935-00-846-3884 | 96906 | MS75021-2 |
| 7 | 7 | 5365-00-090-5426 | 19207 | 7722333 |
| 7 | 8 | 5310-00-393-6685 | 19207 | 7723309 |
| 7 | 9 | 9905-00-893-3570 | 81349 | M43436/1-3 |
| 7 | 10 | 5940-00-050-6209 | 21450 | 506209 |
| 7 | 11 | 5935-00-833-8561 | 19207 | 8338561 |
| 7 | 12 | 5970-00-833-8562 | 19207 | 8338562 |
| 7 | 13 | 5940-00-846-5012 | 19207 | 8338563 |
| 7 | 14 | 9905-00-752-4649 | 81349 | M43436/1-1 |
| 7 | 15 | 53 05-00-988-1 723 | 96906 | MS35206-279 |
| 7 | 16 | 2590-00-418-0893 | 19207 | 8722944 |
| 7 | 17 | 5340-00-051-2668 | 96906 | MS9025-07 |
| 7 | 18 | 5340-00-860-0555 | 19207 | 8722870 |
| 8 | 1 | 2590-00-078-2930 | 19207 | 11682075 |
| 8 | 2 | 5935-00-846-3884 | 96906 | MS75021-2 |
| 8 | 3 | 5365-00-090-5426 | 19207 | 7722333 |
| 8 | 4 | 5310-00-393-6685 | 19207 | 7723309 |
| 8 | 5 | 99 05-00- 893-3570 | 81349 | M43436/1-3 |
| 8 | 6 | 9905-00-752-4649 | 81 3 4 9 | M43436/1-1 |
| 8 | 7 | 5 940- 00-399-6676 | 04939 | 8338564 |
| 8 | 8 | 5970-00-833-8562 | 19207 | 8338562 |
| 8 | 9 | 5935-00- 833-8561 | 04939 | 8338561 |
| 8 | 10 | 5940-00-050-6209 | 21450 | 506209 |
| 8 | 11 | 6145-00-152-6499 | 81349 | M13486-1-5 |
| 8 | 12 | 5975-00-074-2072 | 79500 | 9218211-1 |
| 9 | 1 | 2530-00-076-8599 | 19207 | 11612268 |
| 9 | 2 | 5365-00-930-5654 | 98313 | FDK2850 |
| 9 | 3 | 5310-00-582-5965 | 969 06 | MS35338-44 |
| 9 | 4 | 5305-00-068-0502 | 96 9 0 6 | MS90725-6 |
| 9 | 5 | 4730-00-050-4203 | 96906 | MS15001-1 |
| 10 | 1 | 5305-00-978-9353 | 96906 | MS16997-43 |

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| FIG. | ITEM | STOCK NUMBER | FSCM | PART NUMBER |
| | | | | |
| 10 | 2 | 5310-00-045-3299 | 96 906 | MS35338-42 |
| 10 | 3 | 5365-01-111-1521 | 19207 | 11612331 |
| 10 | 4 | 5330-00-501-9486 | 19207 | 11612332 |
| 10 | 5 | 5315-01-098-1791 | 19207 | 11612182 |
| 10 | 6 | 2530-00-139-3496 | 19207 | 11612279-1 |
| 10 | 6 | 2530-00-139-3497 | 19207 | 11612279-2 |
| 10 | 7 | 3120-01-098-1613 | 19207 | 11612110-1 |
| 10 | 8 | | 19207 | 11612259-3 |
| 10 | 8 | 2530-01-25 8- 8093 | 19207 | 11612259-1 |
| 10 | 9 | 4730-00-050-4203 | 96906 | MS15001-1 |
| 10 | 10 | 3120-00-930-5616 | 19207 | 11612184 |
| 10 | 11 | 5310-00-880-7746 | 96906 | MS51968-5 |
| 10 | 12 | 5305-00-725-3525 | 96 9 06 | MS51964-84 |
| 11 | 1 | | 19207 | 11612274 |
| 12 | 1 | 2530-00-076-5045 | 19207 | 11612220-1 |
| 12 | 1 | 2530-00-076-5178 | 19207 | 11612220-2 |
| 12 | 2 3 | 5310-00-732-0560 | 96 9 0 6 | MS51968-14 |
| 12 | | 5310-00-584-5272 | 96 9 06 | MS35338-48 |
| 12 | 4 | 5305-00-719-5235 | 96906 | MS90727-114 |
| 12 | 5 | 5305-00-267-89 55 | 96 906 | MS90727-11 |
| 13 | 1 | 2510-00-076-6971 | 19207 | 11612267 |
| 13 | 2 3 | 5305-00-068-0502 | 96 9 06 | MS90725-6 |
| 13 | 3 | 5310-00-582-5965 | 96 9 06 | MS35338-44 |
| 13 | 4 | 5365-01-134-0922 | 19207 | 11602355 |
| 13 | 5 1 2 2 3 3 | 2530-01-057-6225 | 19207 | 12255389 |
| 14 | 1 | 2530-00-069-9427 | 92 867 | 01060500 |
| 14 | 2 | 2590-00-077-0447 | 19207 | 11602357-1 |
| 14 | 2 | 2590-00-077-0448 | 19207 | 11602357-2 |
| 14 | 3 | 5340-00-051-2668 | 96906 | MS9025-07 |
| 14 | | 5340-00-051-2668 | 96906 | MS9025-07 |
| 14 | 4 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 14 | 4 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 14 | 5 5 | 5305-00-988-1723 | 96 9 0 6 | MS 35206-279 |
| 14 | | 5305-00-988-1723 | 96906 | MS35206-279 |
| 14 | 6 | 5310-00-899-1957 | 96906 | MS35691-41 |
| 15 | 1 | 2530-01-115-8128 | 14892 | 322768 |
| 15 | 1 | 2530-01-132-9085 | 14892 | 322767 |
| 15 | 2 | | 19207 | 5303476 |
| 15 | 3 | 5305-00-042-3560 | 24617 | 423560 |
| 15 | 4 | 2530-00-930-5633 | 06853 | 315684R |
| 15 | 4 | 2530-00-930-5648 | 06853 | 318459 |
| 15 | 5 | 5360-00-930-5645 | 06853 | 31629 |
| 15 | 6 | 2530-00-621-6330 | 14892 | 41029 |
| 15 | 7 | 5310-00-874-2922 | 19207 | 11686280 |
| 15 | 8 | 2530-01-024-6887 | 19207 | 11602496 |
| 15 | 9 | | 14892 | 307652 |
| 15 | 9 | 2530-00-930-5624 | 14892 | 307651 |
| 15 | 10 | | 19207 | 11602497 |
| 15 | 11 | | 06853 | 307653 |
| 15 | 11 | F310 00 074 0000 | 06853 | 307654 |
| 15 | 12 | 5310-00-874-2922 | 19207 | 11686280 |

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| FIG. | ITEM | STOCK NUMBER | FSCM | PART NUMBER |
| | | | | |
| 15 | 13 | 2530-00-621-6330 | 89346 | 100202HA |
| 15 | 14 | 2530-00-930-5638 | 06853 | 315898 |
| 15 | 15 | 2530-00-930-4859 | 14892 | 309992 |
| 15 | 16 | | 19207 | 11602492 |
| 15 | 17 | | 19207 | 5304039 |
| 15 | 18 | 4010-00-930-5641 | 06853 | 315256 |
| 15 | 19 | 5360-00-930-5649 | 06853 | 311309 |
| 15 | 20 | 2530-01-183-2647 | 14892 | 315231 |
| 15 | 20 | 2530-01-183-2648 | 14892 | 315232 |
| 15 | 21 | 2530-00-138-8172 | 14892 | 312168 |
| 15 | 22 | | 14892 | 3203006 |
| 15 | 22 | 2530-01-094-9006 | 14894 | 3203007 |
| 15 | 23 | 2530-00-930-5618 | 06853 | 311538L |
| 15 | 23 | 2530-01-094-9005 | 14894 | 3203006 |
| 15 | 24 | | 06853 | 312165 |
| 15 | 24 | | 06853 | 312166 |
| 15 | 25 | 5360-00-930-5644 | 06853 | 39244 |
| 15 | 26 | 2530-01-257-1609 | 06853 | 322772 |
| 15 | 26 | 3040-01-183-2761 | 06853 | 322771 |
| 15 | 27 | 2530-01-124-5454 | 14894 | 301055 |
| 15 | 28 | 5340-00-700-1423 | 19207 | 7001423 |
| 15 | 29 | | 06853 | 316816 |
| 16 | 1 | 2530-00-204-4800 | 19207 | 8357980 |
| 16 | 1 | 4710-00-511-1692 | 19207 | 8365426 |
| 16 | 2 2 | 4730-00-773-2163 | 63477 | 7979691 |
| 16 | 2 | 4730-00-908-3193 | 96906 | MS35842-12 |
| 16 16 | 3 | 5330-01-094-51 04 4720-00-809- 2 7 50 | 80205 96906 | NAS1611-123 |
| 16 | 3 | 5330-00-737-3354 | 19207 | MS521301 A2041 |
| 16 | 4 | 2530-01-180-8654 | 06853 | 7373354 2230701 |
| 16 | 4 | 2530-01-183-2718 | 06853 | 2230700 |
| 16 | | 2530-00-119-3725 | 19207 | 10861507 |
| 17 | 5 1 | 5305-00-988-1725 | 96906 | MS35206-281 |
| 17 | 2 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 17 | 3 | 5340-00-051-2668 | 96906 | MS9025-07 |
| 17 | 4 | 4710-00-070-9809 | 19207 | 11612243 |
| 17 | 4 | 4710-00-071-1507 | 19207 | 11682076 |
| 17 | 5 | 4710-00-071-1507 | 19207 | 11682076 |
| 17 | 5 | 4710-00-501-7264 | 19207 | 11612242 |
| 17 | 6 | 5365-00-864-2993 | 19207 | 7735289 |
| 17 | 7 | 5305-00-068-0502 | 96906 | MS90725-6 |
| 17 | 8 | 5310-00-141-1795 | 88044 | AN960-416 |
| 17 | 9 | 5340-01-055-8837 | 19207 | 11612209 |
| 17 | 10 | 4720-01-098-3277 | 19207 | 11602666 |
| 17 | 11 | 4720-00-071-1450 | 19207 | 11677565 |
| 17 | 12 | 4710-00-071-1507 | 19207 | 11682076 |
| 17 | 13 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 17 | 14 | 5305-00-988-1723 | 96906 | MS35206-279 |
| 17 | 15 | 5340-00-051-2668 | 96 906 | MS9025-07 |
| 17 | 16 | 4720-00-071-1449 | 19207 | 11648010 |
| 17 | 17 | 4730-01-055-8314 | 19207 | 10900442 |
| | | | | |

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| 17 | 18 | 5310-00-275-6635 | 19204 | 5214539 |
| 17 | 19 | 5310-00-209-1761 | 19207 | 5160323 |
| 17 | 20 | 4730-01-053-8468 | 19207 | 8762000 |
| 18 | 1 | 2530-00-293-5139 | 19207 | 8357981 |
| 18 | 2 | 5306-00-225-9088 | 96906 | MS90726-33 |
| 18 | 3 | 2530-00-192-8824 | 97554 | 7979602 |
| 18 | 4 | 2530-00-737-7783 | 19207 | 7377783 |
| 18 | 5 | 1095-01-162-0352 | 19207 | 7979599 |
| 18 | 6 | 5340-00-178-1441 | 19207 | 7979610 |
| 18 | 7 | 5330-00-584-0265 | 96906 | MS28775-012 |
| 18 | 8 | 5360-00-700-4429 | 19207 | 7979608 |
| 18 | 9 | 2530-00-192-8928 | 19207 | 7979605 |
| 18 | 10 | 5310-00-407-9566 | 96 9 06 | MS35338-45 |
| 18 | 11 | 5310-00-880-7746 | 96906 | MS51968-5 |
| 18 | 12 | 5310-00-732-0558 | 96906 | MS51967-8 |
| 18 | 13 | 5310-00-637-9541 | 96906 | MS35338-46 |
| 18 | 14 | 2530-00-021-2366 | 96 9 06 | MS53004-2 |
| 18 | 15 | 4730-00-911-5645 | 19207 | 10900257 |
| 18 | 16 | 4730-00-278-3912 | 19204 | 7350907 |
| 18 | 17 | 5310-00-407-9566 | 96906 | MS35338-45 |
| 18 | 18 | 5306-00-225-9089 | 96906 | MS90726-34 |
| 19 | 1 | 5330-00-090-2128 | 96 9 0 6 | MS35748-1 |
| 19 | 2 | 4730-00-595-0083 | 96906 | MS35746-1 |
| 19 | 3 | 4730-00-753-6271 | 19207 | 7536271 |
| 19 | 4 | 4730-01-049-5339 | 19207 | 11602478 |
| 19 | 5 | 4720-01-269-8389 | 19207 | 11682089 |
| 19 | 6 | 5305-00-988-1723 | 96906 | MS35206-279 |
| 19 | 7 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 19 | 8 | 5340-00-051-2668 | 96906 | MS9025-07 |
| 19 | 9 | 4720-01-099-9625 | 19207 | 11612253-2 |
| 19 | 10 | 4710-00-070-9812 | 19207 | 11612190 |
| 19 | 11 | 4730-01-049-2696 | 19207 | 11602348 |
| 19 | 12 | | 19207 | 11612192 |
| 19 | 13 | 5305-00-068-0502 | 96906 | MS90725-6 |
| 19 | 14 | 4720-01-053-5120 | 19207 | 11612253-1 |
| 19 | 15 | 4720-00-930-5628 | 24835 | 6967006-009 |
| 19 | 16 | 4730-00-278-6318 | 19207 | 8328782 |
| 19 | 17 | | 19207 | 11612193 |
| 19 | 17 | | 19207 | 11612241 |
| 19 | 18 | 5975-00-285-0907 | 97030 | LOOM 3/8 ID |
| 19 | 19 | 4730-00-069-1187 | 81 3 4 3 | 6-4 120202BA(LON G NUT) |
| 20 | 1 | 5340-00-496-2587 | 19207 | 7014963 |
| 20 | 2 | 5305-00-810-6653 | 06853 | 214884 |
| 20 | 3 | 5340-01-020-6110 | 06853 | 202586 |
| 20 | 4 | 5310-00-680-7297 | 23 382 | 4303 |
| 20 | 5 | 5310-00-119-4801 | 06 8 5 3 | 203888 |
| 20 | 6 | 5310-00-732-0559 | 96906 | MS51968-8 |
| 20 | 7 | 5310-00-637-9541 | 96 906 | MS35338-46 |
| 20 | 8 | 5305-00-942-2196 | 96906 | MS18154-60 |
| 20 | 9 | 4730-00-221-2139 | 96906 | MS20913-45 |

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| 20 | 10 | 2530-01-109-4751 | 19207 | 11602362 |
| 20 | 11 | 4730-00-580-7417 | 19207 | 8743065 |
| 20 | 12 | 4730 -01-049-5339 | 19207 | 11602478 |
| 20 | 13 | 4820-00-174-0339 | 96906 | MS35782-3 |
| 21 | 1 | 2530-01-037-4978 | 19207 | 11612280-1 |
| 21 | 1 | 2530-01-132-1383 | 19207 | 11612280-2 |
| 21 | 1 | 2530-01-150-4998 | 19207 | 11612281-1 |
| 21 | 1 | 2530-01-150-4999 | 19207 | 11612281-2 |
| 21 | 2 | 5305-00-942-2196 | 96906 | MS18154-60 |
| 21 | 3 | 5310-00-959-1488 | 96906 | MS51922-21 |
| 21 | 4 | 5306-00-737-5862 | 19207 | 7375862 |
| 21 | 4 | 5306-00-737-5863 | 19207 | 7375863 |
| 21 | 5 | 2530-00-045-9425 | 99343 | 642775 |
| 21 | 6 | 5330-01-067-9691 | 96906 | MS51920-21-2 |
| 21 | 7 | 3110-00-183-9946 | 96906 | MS19081-58 |
| 21 | 8 | 2530-00-733-1739 | 19207 | 7331739 7696520 |
| 21 | 9 | 5310-00-769-6520 5310-00-737-1106 | 19207 19207 | 7371106 |
| 21 | 10 | 5310-00-769-6521 | 19207 | 7696521 |
| 21 | 11 12 | 5330-00-737-1109 | 19207 | 7371109 |
| 21 | 12 | 5340-00-033-6209 | 19206 | 7735821 |
| 21 21 | 15 | 5310-00-637-9541 | 96906 | MS35338-46 |
| 21 | 14 | 5305-00-115-9526 | 96906 | MS18154-58 |
| 21 | 16 | 5310-00-391-0687 | 33116 | X1023R |
| 21 | 16 | 5310-00-391-0688 | 33116 | 20441 |
| 21 | 17 | 2530-00-463-3648 | 22852 | 934490 |
| 21 | 17 | 2530-01-270-7967 | 40121 | 081387-12 |
| 22 | 1 | 2610-00-204-4228 | 81348 | ZZ-T-381-M/GP2/7 |
| | - | | | .00-16/D/LTMS |
| 22 | 1 | 2610-00-640-3968 | 73842 | 120-099-620 |
| 22 | 2 | 2610-00-269-7332 | 81348 | ZZ-1-550/GP3/7.0 |
| | _ | | | 0-16/TR15CW/0FFC |
| 22 | 3 | 2640-00-810-5861 | 96 9 06 | MS51377-1 |
| 22 | 4 | 2640-00-060-3550 | 73842 | TRVC2 |
| 22 | 5 | 5310-00-136-1467 | 96906 | MS51984-2 |
| 23 | 1 | 5305-00-978-9353 | 96906 | MS 16997-43 |
| 23 | 2 | 5310-00-045-3299 | 96906 | MS35338-42 |
| 23 | 3 | 5365-01-111-1521 | 19207 | 11612331 |
| 23 | 4 | 5330-00-501-9486 | 19207 | 11612332 |
| 23 | 5 | 3120-00-486-0413 | 19207 | 11612334 |
| 23 | 6 | 3120-01-098-1613 | 19207 | 11612110-1 |
| 23 | 7 | 5315-01-055-4478 | 19207 | 11612113 |
| 23 | 8 | 2530-01-042-3693 | 19207 | 11612255 |
| 23 | 9 | | 19207 | 11612196 |
| 23 | 10 | | 19207 | 11612234 |
| 23 | 11 | 5310-00-950-0039 | 96906 | MS21044N6 |
| 23 | 12 | 2530-00-068-6570 | 81285 | ES150L |
| 23 | 12 | 2530-00-068-6571 | 81285 | ES150R |
| 23 | 13 | 4730-00-050-4208 | 96906 | MS15003-1 |
| 23 | 14 | 5305-00-914-6131 | 96 9 06 | MS18153-63 |
| 23 | 15 | 5315-00-816-5813 | 80205 | NAS561P6-32 |

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| 23 | 17 | 4730-00-050-4203 | 96906 | MS15001-1 |
| 23 | 18 | 3120-00-122-5002 | 19207 | 11612110-3 |
| 24 | 1 | 2510-00-279-8429 | 19207 | 11652336 |
| 24 | 2 | | 96 9 06 | MS21044-N6 |
| 24 | 3 | 5340-01-025-5187 | 19207 | L1652332 |
| 24 | 4 | 5305-00-269-3246 | 96906 | MS90727-70 |
| 24 | 5 | | 96906 | MS9048-172 |
| 24 | 6 | 5310-00-167-0826 | 88044 | AN960-1216 |
| 24 | 7 | | 19207 | 11612230 |
| 24 | 8 | 5315-01-195-8025 | 19207 | 11602350-1 |
| 24 | 9 | | 19207 | 11612228 |
| 24 | 10 | 4030-00-431-5536 | 19207 | 8537648 |
| 24 | 11 | 5315 01 0/1 /073 | 81349 | MIL-W-1511A |
| 24 | 12 13 | 5315-01-061-4972 | 19207 | 11636686-1 |
| 24 | 13 | 5340-01-060-7217 | 19207 19207 | 11612191 |
| 24 | 14 | 5315-00-480-3578 | 96906 | 11612123-2 |
| 24 | | 5315-00-687-3790 | 19207 | MS9048-143 11612306 |
| 24 | 16 17 | 5315-01-156-8849 5315-00-838-4584 | | |
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| 24 | 18 | 5515-01-136-7182 | 19207 | 11602521 |
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| 24 | 21 | 3120-01-055-3956 | 19207 | 11647935 |
| 24 | 22 | 5315-00-298-1481 | 96 9 0 6 | MS24665-357 |
| 24 | 23 | 5310-00-167-0827 | 88044 | AN960-1416 |
| 24 | 24 | 4730-00-707-3068 | 96906 | MS35755-1 |
| 24 | 25 | 3120-01-113-0648 | 19207 | 11612307 |
| 24 | 26 | 5310-00-732-0559 | 96906 | MS51968-8 |
| 24 | 27 | 5310-00-637-9541 | 96906 | MS35338-46 |
| 24 | 28 | 5365-01-180-9924 | 19207 | 11602364 |
| 24 | 29 | 5365-01-180-9955 | 19207 | 11612202 |
| 25 | 1 | 2540-00-582-5407 | 19207 | 12250162 |
| 25 | 2 | 2540-00-076-8621 | 19207 | 11612317 |
| 25 | 3 | | 19207 | 11612316 |
| 25 | 4 | | 19207 | 11612318 |
| 25 | 5 | | 19207 | 11612320 |
| 25 | 6 | 5310-00-950-1309 | 96 906 | MS27183-31 |
| 25 | 7 | 5315-00-846-0126 | 969 06 | MS24665-628 |
| 25 | 8 | 5310-00-842-7616 | 96 9 0 6 | MS35692-105 |
| 25 | 9 | 4730-00-050-4203 | 96906 | MS15001-1 |
| 25 | 10 | 2540-00-132-1307 | 19207 | 12250150 |
| 25 | 11 | | 19207 | 11612323 |
| 25 | 12 | 5310-00-584-5272 | 96906 | MS35338-48 |
| 25 | 13 | 5305-00-719-5219 | 96906 | MS90727-111 |
| 25 | 14 | | 19207 | 11612313 |
| 25 | 15 | | 19207 | 11612312-2 |
| 25 | 16 | 5310.00 501 5330 | 19207 | 11612312-1 |
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| 25 | 20 | 2540-00-124-9157 | 19207 | 11612194-2 |
| 25 | 21 | | 19207 | 12250089-1 |
| 25 | 22 | 5315-00-059-0217 | 96906 | MS24665-624 |
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| 25 | 24 | | 19207 | 11636686-2 |
| 25 | 25 | 5360-00-486-0415 | 19207 | 11612195 |
| 25 | 26 | 5305-00-719-5235 | 96906 | MS90727-114 |
| 25 | 27 | | 19207 | 11612244 |
| 25 | 28 | 5310-00-877-5795 | 96906 | MS21044N8 |
| 25 | 29 | 4010-00-930-5651 | 24835 | 6600057 |
| 25 | 30 | | 81 3 4 8 | RR-C-271-2TYPEII 3/8 |
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| 25 | 32 | | 97499 | 204-070-481-1 |
| 25 | 33 | 2540-00-835-9039 | 19207 | 7073209 |
| 25 | 34 | 5310-00-584-5272 | 96 9 06 | MS35338-48 |
| 25 | 35 | 5305-00-725-4183 | 96906 | MS90726-113 |
| 26 | 1 | 5305-00-942-2196 | 96906 | MS18154-60 |
| 26 | 2 | 5310-00-637-9541 | 96906 | MS35338-46 |
| 26 | 3 | | 19207 | 12313038 |
| 26 | 4 | 2510-00-782-1896 | 19207 | 11602365 |
| 26 | 5 | 5310-00-637-9541 | 96906 | MS35338-46 |
| 26 | 6 | 5305-00-978-9390 | 96906 | MS16997-95 |
| 27 | 1 | 5310-00-732-0560 | 96906 | MS51968-14 |
| 27 | 2 | 5310-00-584-5272 | 96906 | MS35338-48 |
| 27 | 3 | 5310-00-311-4304 | 76110 | 401265 |
| 27 | 4 | 5310-00-655-9542 | 19207 | 7059149 |
| 27 | 5 | 2540-00-930-5634 | 76110 | 57091 |
| 27 | 6 | 5365-01-044-3502 | 19207 | 11647976 |
| 28 | 1 | 5306-00-165-8284 | 19207 | 11682097 |
| 28 | 2 | | 19207 | 11612108 |
| 28 | 3 | 5365-01-056-3317 | 19207 | 11652340 |
| 28 | 4 | 5340-01-051-3444 | 19207 | 11602349 |
| 28 | 5 | 5310-01-057-0402 | 19207 | 11612143 |
| 28 | 6 | 2530-01-054-4305 | 19207 | 11612221 |
| 28 | 7 | 5310-01-056-5125 | 19207 | 11647936 |
| 28 | 8 | 5310-00-982-6809 | 96906 | MS21044N10 |
| 29 | 1 | 5305-00-988-1723 | 96906 | MS35206-279 |
| 29 | 2 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 29 | 3 | 9905-00-205-2795 | 96906 | MS35387-1 |
| 29 29 | 4 5 | 5305-00-988-1725 | 96906 | MS35206-281 |
| 29 | 6 | 5310-00-141-1795 5340-01-168-4200 | 88044 | AN960-416 |
| 29 | 7 | 2540-01-020-6084 | 19207 | 11612262 |
| 29 | 8 | 5310-00-407-9566 | 19207 | 12250480 |
| 29 | 9 | 5306-00-050-1238 | 96 9 0 6 96 9 0 6 | MS35338-45 |
| 29 | 10 | 5340-01-142-9728 | 19207 | MS90727-32 |
| 29 | 11 | 5306-00-050-1238 | 96906 | 11682039 |
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| 29 | 13 | 5340-01-189-6405 | 19207 | 7979851 |
| 29 | 14 | 5310-00-877-5796 | 96 9 06 | MS21044-N4 |
| 29 | 15 | | 81 3 4 9 | MILH15021 |
| 29 | 16 | 5340-00-809-1494 | 96 9 0 6 | MS21333-105 |
| 29 | 17 | 5305-00-993-2461 | 96906 | MS35207-281 |
| 29 | 18 | 5305-00-068-0502 | 96 906 | MS90725-6 |
| 29 | 19 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 29 | 20 | 2540-01-257-3863 | 19207 | 11612290 |
| 29 | 21 | 2540-01-048-6241 | 19207 | 11612251 |
| 29 | 22 | 5340-01-278-6283 | 19207 | 11612276 |
| 29 | 23 | 5340-01-259-7613 | 19207 | 11612289 |
| 29 | 24 | 5305-00-958-5471 | 96906 | MS35190-273 |
| 29 | 25 | 5310-00-045-3296 | 96906 | MS35338-43 |
| 29 | 26 | 5310-00-934-9758 | 96906 | MS35649-202 |
| 29 | 27 | 5305-00-988-1725 | 96906 | MS35206-281 |
| 29 | 28 | 9905-00-202-3639 | 96906 | MS35387-2 |
| 29 | 29 | 5320-00-721-5210 | 96 9 0 6 | MS20470A4-5 |
| 29 | 30 | 5340-00-821-0304 | 82240 | B1900-377 |
| 29 | 31 | 5340-00-966-8234 | 82240 | B-1900-613 |
| 29 | 32 | 2530-01-040-4208 | 19207 | 11612169 |
| 29 | 33 | | 81349 | MILW1511A |
| 29 | 34 | 4030-00-431-5536 | 19207 | 8537648 |
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| 30 | 3 | 9905-00-114-4630 | 19207 | 11647981 |
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| 31 | 1 2 3 | 5305-00-253-5615 | 96906 | MS21318-21 |
| 31 | 2 | 9905-00-108-6219 | 19207 | 11647982 |
| 31 | | 9905-00-282-7489 | 19207 | 7979373 |
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| 32 | 4 | 9905-00-999-7370 | 96 9 06 | MS53007-1 |
| 32 | 5 | 9905-00-999-7369 | 96906 | MS53007-2 |
| 33 | 1 | 5340-00-930-5669 | 24835 | 5600099 |
| 33 | 2 | 4320-00-172-1817 | 26952 | HP-6001-51-11 |
| 33 | 3 | | 20805 | A8008-49 |
| 33 | 4 | 4320-01-044-7261 | 26952 | B8008-060 |
| 33 | 5 | 5315-01-046-7953 | 26952 | A8018-061 |
| 33 | 6 | 5315-01-047-2784 | 26952 | A8001-057 |
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| 33 | 8 | 4320-01-046-6797 | 26952 | A8087-900 |
| 33 | 9 | | 20805 | A8059-040 |
| 33 | 10 | | 20805 | P146-50 |
| 33 | 11 | 5330-00-123-8671 | 26952 | A8009.037 |
| 33 | 12 | 4730-01-053-8749 | 26952 | A8018-021 |
| 33 | 15 | 5330-00-677-2359 | 07505 | P146-75 |

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| 33 | 15 | 4320-01-044-9282 | 26952 | C8007-098 |
| 33 | 16 | 5330-00-377-5503 | 26952 | A1018-037 |
| 33 | 17 | 4820-00-349-8952 | 07505 | P307-900 |
| 33 | 18 | | 20805 | B164-232 |
| 33 | 19 | | 20805 | B162-206 |
| 33 | 20 | 3110-00-812-7349 | 05842 | B1008-016 |
| 33 | 21 | | 20805 | P307-190 |
| 33 | 22 | 5365-00-759-7412 | 26952 | B159-167 |
| 33 | 23 | | 20805 | A8000-212 |
| 33 | 24 | 5305-00-952-4721 | 18876 | 11030936-1 |
| 33 | 25 | 5310-00-148-4757 | 00198 | 93938 |
| 33 | 26 | | 20805 | H613-183 |
| 33 | 27 | 3110-00-100-6155 | 05842 | W12-16 |
| 33 | 28 | 3110-00-812-7349 | 05842 | 81008-016 |
| 33 | 29 | | 20805 | C8031-005 |
| 33 | 30 | 1730-00-651-8476 | 07505 | H7-900 |
| 33 | 31 | 5340-00-371-6507 | 26 952 | P60-11 |
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| 33 | 37 | | 07505 | P60-12 |
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| 33 | 39 | 1730-00-303-1089 | 05842 | P307-18 |
| 33 | 40 | | 20805 | A8018-006 |
| 33 | 41 | 5306-01-047-0318 | 26952 | A8017-048 |
| 33 | 42 | 2530-00-600-9158 | 19207 | 11612205 |
| 33 | 43 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 33 | 4 4 | 5310-00-880-7746 | 96906 | MS51968-5 |
| 33 | 45 | 5305-00-225-9091 | 96 90 6 | MS90726-36 |
| 34 | 1 | 4820-01-026-9997 | 19207 | 11602353 |
| 34 | 2 | 4730-01-110-4773 | 19207 | 11602476 |
| 34 | 3 | 4720-01-098-3278 | 19207 | 11612252 |
| 34 | 4 | 5340-00-811-3025 | 96 9 0 6 | MS9025-03 |
| 34 | 5 | | 87373 | 2127-4-4 |
| 34 | 6 | 4710-01-296-0469 | 19207 | 11612239 |
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| 34 | 8 | 4730-00-035-8036 | 19207 | 8365771 |
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| 34 | 11 | 5310-00-582-5965 | 96906 | MS35338-44 |
| 35 | 1 | 5315-00-298-1481 | 96 9 0 6 | MS 24665-357 |
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| 35 | 11 | 5330-00-923-2413 | 80201 | 504268 |
| 35 | 12 | 5315-00-165-8481 | 19207 | 11602350-4 |
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