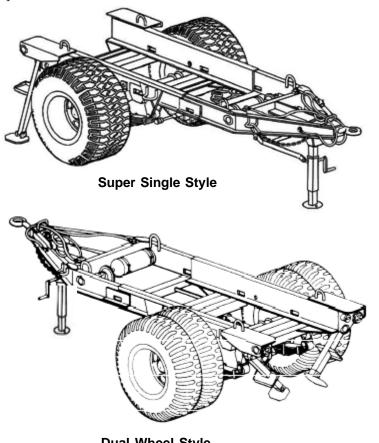
TM 9-2330-205-14&P

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)



Dual Wheel Style

CHASSIS, TRAILER: GENERATOR, 2 1/2-TON, 2-WHEEL, M200A1 (NSN 2330-00-331-2307)

OPERATING INSTRUCTIONS PAGE 2.1
OPERATOR PMCS PAGE 2-4
OPERATOR MAINTENANCE PAGE 3-1
OPERATOR TROUBLESHOOTING PAGE 3-1
ORGANIZATIONAL MAINTENANCE PAGE 4-1
ORGANIZATIONAL P M C S PAGE 4-7
ORGANIZATIONAL TROUBLESHOOTING PAGE 4-10
DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE PAGE 5-1
MAINTENANCE ALLOCATION CHART PAGE B-1
REPAIR PARTS AND SPECIAL TOOLS LIST PAGE F-1

HEADQUARTERS, DEPARTMENT OF THE ARMY SEPTEMBER 1984

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 illness, injury, or loss of life could result from improper use.

WARNING

Improper cleaning methods and use of unauthorized cleaning liquids or solvents can injure personnel and damage equipment. Refer to TM 9-247.

WARNING

Do not operate the trailer with any burned out or missing lights. Not being seen could result in injury to personnel and damage to equipment.

WARNING

Use care when releasing spring-loaded lower tube of the step jack. The lower tube will return to retracted position with considerable force and can cause injury.

WARNING

All persons not involved in coupling operation must stand clear of towing vehicle and trailer to prevent possible injury.

WARNING

Wear protective goggles to prevent eye injury when opening air reservoir draincock. Move away from airstream to prevent injuries.

WARNING

Particles blown by compressed air are hazardous. Make certain that the airstream is directed away from user and other personnel in the area. User must wear safety eye goggles or face shield to prevent injury when using compressed air. Make certain that air stream is less than 30 psig.

WARNING

Before performing any maintenance tasks on brake system, disconnect trailer air lines from towing vehicle and open draincock to release air pressure from system. Serious injury may result from failure to do so.

WARNING

All parts of the service brake assembly will be coated with asbestos dust from the brake linings. A filter mask should be worn whenever working on any assembly components. Breathing asbestos dust may cause serious damage to health.

WARNING

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

WARNING

Do not raise landing leg assembly unless the trailer is coupled to a towing vehicle or is securely supported on jack stands. The trailer may fall, causing injury to personnel.

HEADQUARTERS
CHANGE DEPARTMENT OF THE ARMY
NO. 2 Washington, D.C., 10 April 2006

Operator's, Organizational,
Direct Support and General Support
Maintenance Manual
(Including Repair Parts and Special Tools List)

CHASSIS, TRAILER: GENERATOR 2-1/2 TON, 2-WHEEL, M200A1 NSN 2330-00-331-2307

TM 9-2330-205-14&P, 11 September 1984, is changed as follows:

- 1. Remove old pages and insert new pages as indicated.
- 2. New or changed material is indicated by a vertical bar in the margin of the new page.
- 3. A Change 2 beside the page number indicates new or changed material. Added or revised illustration pages will also include the Change 2 beside the page number.
- 4. This change implements Army Maintenance Transformation and change the Maintenance Allocation Chart (MAC) to support Field and Sustainment Maintenance.

Remove Pages None i thru iv 1-0 1-3 thru 1-8	Insert Pages A/(B Blank) i thru iv 1-0 1-3 thru 1-8	Remove Pages 4-95 thru 4-97/(4-98 Blank) 5-7 thru None 5-11/(5-12 Blank)	Insert Pages 4-95 thru 4-97/(4-98 Blank)
2-1 thru 2-18	2-1 thru 2-18	B-1 thru	B-1 thru B-8
3-3 and 3-4	3-3 and 3-4	B-7/(B-8 Blank)	
3-7 and 3-8	3-7 and 3-8	17-1 thru Fig. 21	17-1 thru Fig. 21
4-17 and 4-18	4-17 and 4-18	24-1 and KIT-1	24-1 and KIT-1
4-23 thru 4-28	4-23 thru 4-28	I-1 thru I-12	I-1 thru I-12
4-39 and 4-40	4-39 and 4-40	I-17 thru I-20	I-17 thru I-20
4-45 thru 4-48	4-45 thru 4-48	Index 1 thru 4	Index 1 thru 4
4-57 and 4-58	4-57 and 4-58	Sample 2028	Sample 2028
4-61 and 4-62	4-61 and 4-62	DA Form 2028	DA Form 2028
4-83 and 4-84	4-83 and 4-84	Front Cover	Front Cover
4-87 and 4-88	4-87 and 4-88		

5. File this change sheet in front of publication for reference.

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By Order of the Secretary of the Army:

PETER J. SCHOOMAKER General, United States Army Chief of Staff

Dage E. More

Administrative Assistant to the Secretary of the Army

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DISTRIBUTION: To be distributed in accordance with the initial distribution requirements

for IDN: 390612, requirements for TM 9-2330-205-14&P.

CHANGE

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 18March1988

NO. 1

Operator's, Organizational,
Direct Support, and General Support
Maintenance Manual
(Including Repair Parts and Special Tools List)

CHASSIS, TRAILER: GENERATOR
2-1/2 TON, 2-WHEEL, M200A1
(NSN 2330-00-331-2307)
Current as of

1 March 1988

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Remove Pages	Insert Pages	Remove Pages	Insert Pages
i thru iv	i thru iv	4-45 and 4-46	4-45 and 4-46
2-11 and 2-12	2-11 and 2-12	4-83 thru 4-86	4-83 thru 4-86
4-3 and $4-4$	4-3 and $4-4$	F-1 thru F-66	1 thru 66
4-11 and 4-12	4-11 and 4-12	Ind3 and Ind4	Ind3 and Ind4

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TM 9-2330-205-14&P

INSERT LATEST PAGES. DESTROY SUPERCEEDED DATA.

LIST OF EFFECTIVE PAGES (for Change 2)

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Change 1 18 MAR 88 Change 2 10 APR 06

TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 18 AND TOTAL NUMBER OF PAGES IN CHAPTERS IS 90, CONSISTING OF THE FOLLOWING:

Page No.	*Change No.
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Title/Authenication (2 pages)	2
Transmittal Page/Remove and Insert Page (2 pages)	
Warnings/a – b (2 pages)	0
i -iv (4 pages)	2
1-0 through 1-8 (10 pages)	2 2 2 2
2-1 through 2-4 (4 pages)	2
2-7 through 2-18 (12 pages)	2
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4-45 through 4-48 (4 pages)	2
4-57 through 4-58 (2 pages)	2
4-61 through 4-62 (2 pages)	2 2 2 2
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4-87 through 4-88 (2 pages)	2
4-97 through 4-97 (3 pages)	2
4-98 Blank (1 page)	2
B-5 through B-6 (2 pages)	2
Figure 17 through Figure 20 (5 pages)	2 2 2 2
16-1 thorugh 20-1 ((6 pages)	2
Figure 24 (1 page)	2 2
24-1/Blank (2 pages)	2
Kit-1/Blank (2 pages)	0
I-1 through I-12 (12 pages)	2
I-17 through I-20 (4 pages)	2
Index (4 pages)	2

^{*}Zero in this column indicates an original page.

TECHNICAL MANUAL

NO. 9-2330-205-14&P, C2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 11 September 1984

Operator's, Organizational,
Direct Support, and General Support
Maintenance Manual
(Including Repair Parts and Special Tools List)

CHASSIS, TRAILER: GENERATOR 2 ½ TON, 2-WHEEL, M200AI (NSN 2330-00-331-2307) Current as of 3 December 2002

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. Submit your DA Form 2028 (Recommended Changes to Publications and Blank Forms), through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is http://aeps.ria.army.mil. If you need a password, scroll down and click on "ACCESS REQUEST FORM". The DA Form 2028 is located in the ONLINE FORMS PROCESSING section of the AEPS. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax or E-mail your letter, DA Form 2028 to: AMSTA-LC-LPIT/TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The email address is TACOM-TECH-PUBS@ria.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

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TM 9.2330.20514&P

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HOW TO USE THIS MANUAL

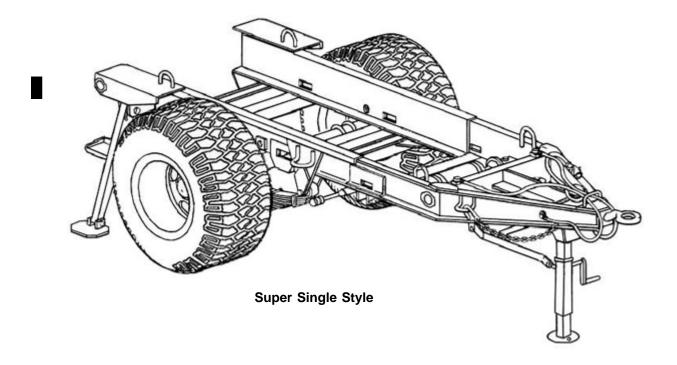
This manual is designed to help you operate and maintain the M200A1 Generator Trailer. The front cover table of contents is provided for quick reference to important information. There is also an index located in the final pages for use in locating specific items of information.

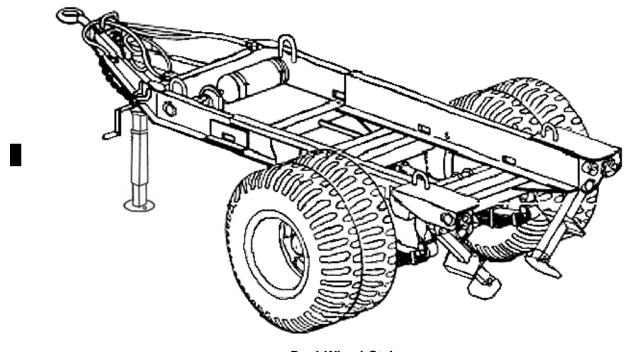
Measurements in this manual are given in both US standard and metric units. A metric to US standard conversion chart can be found on the inside back cover.

Read all preliminary information found at the beginning of each task. It has important Information and safety instructions you must follow before beginning the task.

Warning pages are located in the front of this manual. You should read the warnings Before operating or doing maintenance on the equipment.

A subject index appears at the beginning of each chapter listing sections that are included in that chapter. A more specific subject index is located at the beginning of each section to help you find the exact paragraph you're looking for.





Dual Wheel Style

CHAPTER 1

INTRODUCTION

OVERVIEW

The purpose of this chapter is to give you information on the generator trailer chassis size, shape, major equipment, and how it works.

			Page
Section	I.	General Information	1-1
Section	II.	Equipment Description and Data	1-2
Section	III.	Principles of Operation	1-6

Section L GENERAL INFORMATION

	Page		Page
Destruction of Army Materiel		Preparation for Storage and	
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Maintenance Forms and		Reporting Equipment Improvement	
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SCOPE

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

Model Number and Equipment Name: M200A1 Chassis, Trailer: Generator, 2 1/2-Ton, 2-Wheel.

Purpose of Equipment: The trailer is used to transport electric generators. It can be used on improved and unimproved roads.

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 750-244-6, Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use (US Army Tank-Automotive Command).

PREPARATION FOR STORAGE AND SHIPMENT

See chapter 4, section XIV for instructions for the preparation for storage or shipment.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs)

If your generator trailer 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 Commander, US Army Tank-Automotive Command, Attn: DRSTA-MP, Warren MI 48090. We will send you a reply.

NOMENCLATURE CROSS-REFERENCE LIST

Common Name	Official Nomenclature
Tow hook	Pintle
Tow ring	Coupler, drawbar, lunette, ring

Section IL EQUIPMENT DESCRIPTION AND DATA

	Page		Page
Equipment Characteristics, Capabilities, and Features	1-2	Location and Description of Major Components	1-3
Equipment Data	1-5		

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

PURPOSE OF M200A1 GENERATOR TRAILER CHASSIS

An open-frame, single-axle, four-wheeled trailer chassis designed to transport an electric generator.

CAPABILITIES AND FEATURES

Load Capacity:

Highway, 7000 lb (3158 kg) Cross country, 5000 lb (2270 kg)

May be towed by a 2 1/2-ton, 6 x 6, M35 cargo truck or similar vehicle.

Speed is restricted to 55 mph (88.5 km/h) on improved roads and 30 mph (48.3 km/h) on unimproved roads or cross country.

It can ford hard-bottom water crossings to any depth that can be negotiated by the towing vehicle.

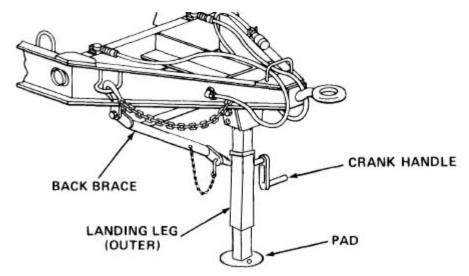
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

LANDING LEG

The landing leg supports the front of the trailer when uncoupled and can be used to raise or lower the front of the trailer.

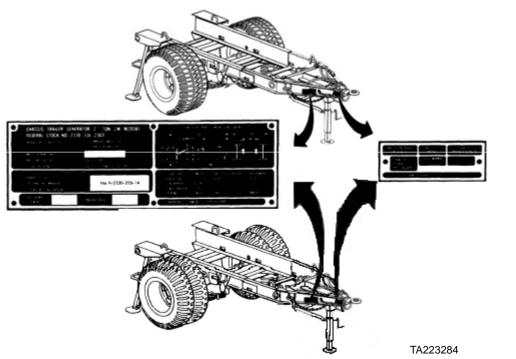
The crank handle drives the gearbox, which extends or retracts the landing leg.

The landing leg and back brace are locked in the down position or in the folded back and stowed position by a Lockpin.



DATA PLATES

There are two data plates on the right front frame. They provide identification, registration, dimension, and weight information.



Change 2 1-3

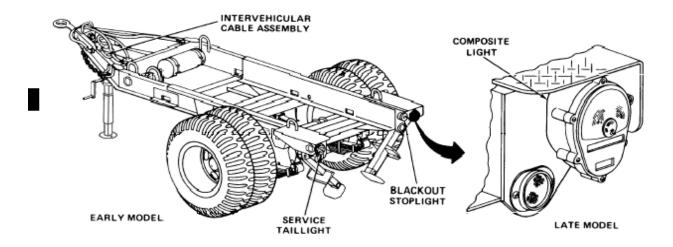
TM 9-2330-205-14&P

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED

ELECTRICAL SYSTEM

The electrical system is the 24-volt military vehicle system with an intervehicular cable to connect the trailer to the towing vehicle.

The taillights and composite lights provide stopping and turning signals.

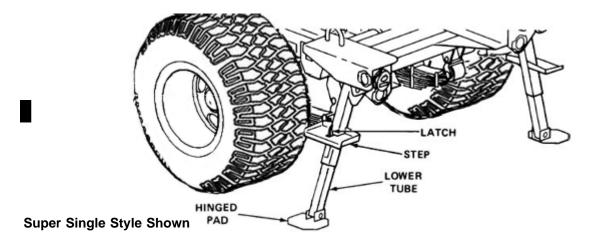


STEP JACKS

The step jacks are located at the left- and right-rear corners of the chassis and serve as stabilizers when the chassis is uncoupled from the towing vehicle.

Each step jack has a step to provide access to upper parts of mounted equipment.

Each step jack has an adjustable spring-loaded lower tube with a hinged pad attached to its base. The lower tube telescopes within the step tube and can be locked in any of seven positions by the latch.

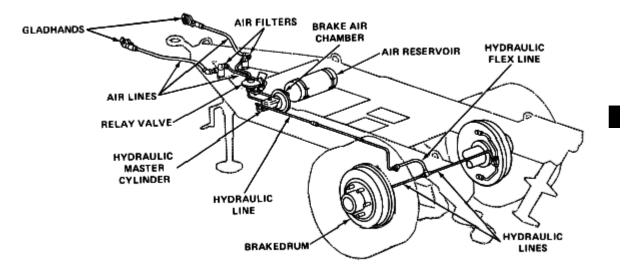


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LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED

BRAKE SYSTEM

The brake system is an air-actuated, hydraulically operated system.



EQUIPMENT DATA

Axle

 Type
 Tubular

 Diameter
 4 1/2.(114 mm)

 Spindle dia.
 2 13/16 in. (52 mm)

Brakes

Type Air over hydraulic

Operating pressure 60 psi (414 kPa) minimum Size, diameter 16.0705 in. (408 mm)

Size, width 3 in. (76 mm)

Type mechanism 2-shoe, self-centering,

expanding double-cylinder actuation

Electrical system, 24-volt

Lamps, blackout 3 cp Lamps, service 32 cp

Frame

Material Welded pressed steel Height 38 in. (965 mm)

Handbrakes

Actuation Mechanical hand levers Location Forward side rails

EQUIPMENT DATA - CONTINUED

THIS PAGE CONTAINS DATA FOR THE SUPER SINGLE STYLE ONLY. THE DATA FOR THE OLDER STYLE M200 SERIES TRAILER IS ON PAGE 1-6.

Landing leg

Length extended 31 in. (787 mm) Length retracted 23 in. (584 mm)

Springs

Material Steel alloy Number of leaves 14

Type Semielliptical

Tires (Super Single Models)

Number (Including Spare) 3

Size 10R22.5

Inflation (cross country)

(highway)

(mud, snow, and sand)

70 psi (483 kPa)

70 psi (483 kPa)

70 psi (483 kPa)

Type (Manufacturer) Goodyear Tire and Rubber Co.

Weights and dimensions

 Length (to center of lunette)
 162 1/5 in. (411 cm)

 Width (overall)
 89 in. (236 cm)

 Height (top of tires)
 37.75 in. (100 cm)

 Weight (empty)
 2015 lb (1093 kg)

 Payload (cross country)
 5000 lb (2268 kg)

 (highway)
 7000 lb (3175 kg)

(highway) 7000 lb (3175 kg)
Angle of departure 30-degree slope

Wheels

Number of studs 6 each Rim

Manufacturer Pribbs Steel & Mfg., Inc. Rim Size 7.5x22.5in. (19x57cm)

Number (Including Spare)

EQUIPMENT DATA - CONTINUED

Landing leg

Length extended 31 in. (787 mm) Length retracted 23 in. (584 mm)

Springs

Material Steel alloy

Number of leaves 14

Type Semielliptical

Tires

 Number
 4

 Number of plies
 8

 Size
 9.00 x 20

Inflation (cross country) 20 psi (138 kPa) (highway) 35 psi (241 kPa) (mud, snow, and sand) 15 psi (103 kPa)

Type Military pneumatic

Weights and dimensions

 Length (to center of lunette)
 161 7/8 in. (411 cm)

 Width (overall)
 93 in. (236 cm)

 Height (top of tires)
 40 in. (102 cm)

 Weight (empty)
 2410 lb (1093 kg)

 Payload (cross country)
 5000 lb (2268 kg)

 (highway)
 7000 lb (3175 kg)

 Angle of departure
 30-degree slope

Wheels

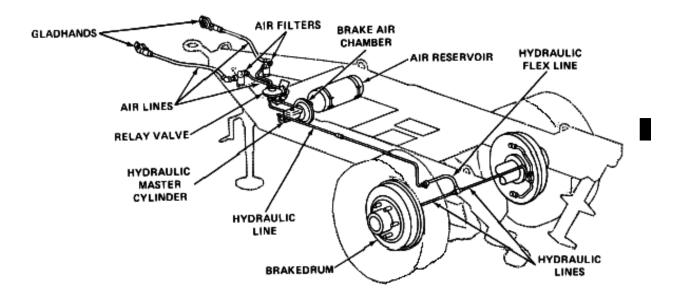
Diameter of stud circle 8.743 in. (222 mm)

Number of studs6 eachRim size20 x 7.5Tire retentionSplit ringTypeOffset diskBearing typeTapered roller

Number 4

Section III. PRINCIPLES OF OPERATION

	Page		Page
Brake System	1-7	Electrical System	1-8



Gladhands - The gladhands are the coupling point for the trailer to towing vehicle. They are marked, one for emergency and the other for service, to ensure correct hookup.

Air Filters - The air filters clean air from towing vehicle of moisture and foreign matter,

Air Lines - The air lines extend from the air filters to supply service and emergency air to the relay valve, air reservoir, and brake air chamber.

Relay Valve - Controls the braking system of the trailer. Based on the air pressure signals received from the towing vehicle, it will apply or release the service brakes or it will initiate an emergency brake application.

Air Reservoir - The air reservoir stores the system air pressure (60 psi (413.7 kPa) minimum) that operates the brake system. Pressure to the reservoir is initially supplied and then maintained through the emergency supply line from the towing vehicle through the relay valve.

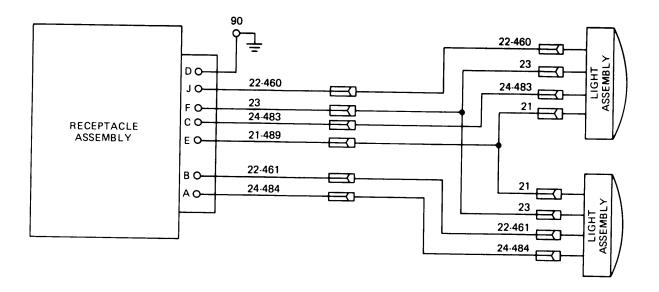
Brake Air Chamber - The brake air chamber converts air pressure to mechanical motion. This movement, through the hydraulic master cylinder, applies the brakes. When air pressure in the brake air chamber is released, spring action releases the brakes.

Hydraulic Master Cylinder - The hydraulic master cylinder converts the mechanical motion of the brake air chamber to hydraulic pressure.

Wheel Cylinders - The wheel cylinders convert system hydraulic pressure to mechanical motion and force the brake lining against the brakedrum.

Brakeshoes - The two brakeshoes on each wheel assembly are spread apart by the mechanical movement of the wheel cylinders. The brakeshoes cause friction to slow or stop the trailer.

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The light assemblies receive power to operate from the towing vehicle through the intervehicular cable and the main chassis harness.

CHAPTER 2 OPERATING INSTRUCTIONS

OVERVIEW

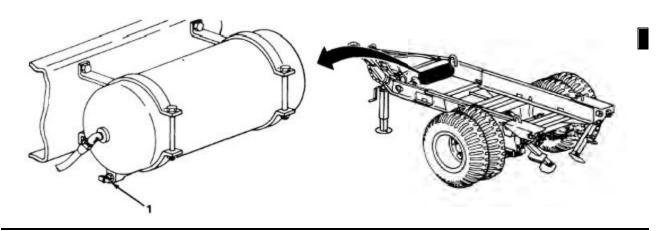
This chapter shows and describes the trailer controls and contains operator/crew level preventive maintenance procedures. There are instructions for coupling trailer to towing vehicle, driving, stopping, and backing, operation in both usual and unusual conditions, and other information to help you understand and better operate the trailer.

	rage
Section I. Description and Use of Operator's Controls	2-1
Section II. Operator/Crew Preventive Maintenance	
Checks and Services (PMCS)	2-4
Section III. Operation Under Usual Conditions	2-9
Section IV. Operation Under Unusual Conditions	2-16

Section I. DESCRIPTION AND USE OF OPERATOR'S CONTROLS

	Page		Page
Air Reservoir	2-1	Step Jack	2-3
Handbrakes	2-2	Trailer-to-Towing Vehicle	
Landing Leg	2-4	Connectors	2-3
Lunette and Safety Chain	2-2		

AIR RESERVOIR



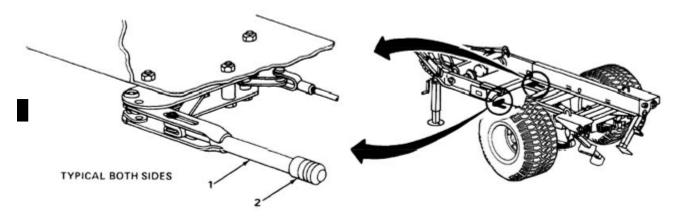
KEY CONTROL OR INDICATOR

FUNCTION

1 Draincock

Used to drain accumulation of moisture and to release air pressure in the event of locked brakes.

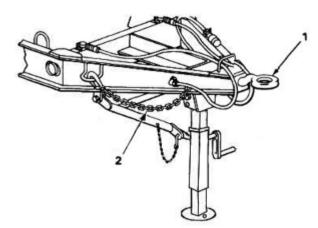
TM 9-2330-205-14&P



Super Single Style Shown

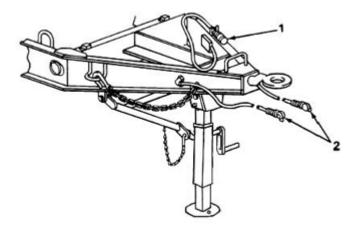
KEY	CONTROL OR INDICATOR	ICATOR FUNCTION		
1	Handbrake lever	The handbrake lever assemblies are used to apply or release the handbrakes.		
2	Adjustment knobs	Use to adjust cable tension.		

LUNETTE AND SAFETY CHAIN



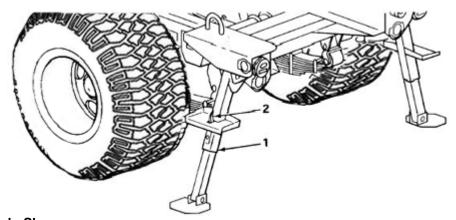
KEY	CONTROL OR INDICATOR	FUNCTION		
1	Lunette	Used to couple the trailer to the towing vehicle.		
2	Safety chain	Hooked to eyebolts on towing vehicle to prevent trailer from fully breaking away.		

TRAILER-TO-TOWING VEHICLE CONNECTORS



KEY	CONTROL OR INDICATOR	FUNCTION		
1	Intervehicular cable	Provides the connection between the towing vehicle connector and the trailer electrical system.		
2	Service and emergency	Provide the connections between the towing vehicle's gladhands air supply and the trailer.		

STEP JACK

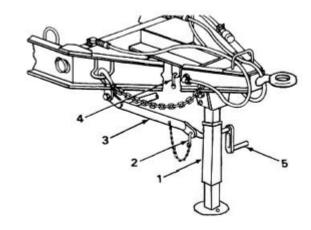


Super Single Style Shown

KEY	CONTROL OR INDICATOR	FUNCTION		
1	Step jack	Acts as a stabilizer at the rear of the trailer and provides a step to gain access to upper parts of equipment mounted on trailer.		
2	Latch Locks	Lower tube in any of seven positions.		

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LANDING LEG



KEY	CONTROL OR INDICATOR	FUNCTION
1	Landing leg	Provides support for forward end of chassis when not coupled to a towing vehicle.
2	Lockpin	Attaches back brace to landing leg to secure landing leg in the down position,
3	Back brace	Provides fore and aft stability for the landing leg.
4	Lockpin	Locks the landing leg in the folded position.
5	Crank handle	Operates the gearbox. Turning crank clockwise retracts shoe assembly, lowering trailer. Turning crank counterclockwise extends shoe assembly, raising trailer.

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

	Page		Page
General	2-5	PMCS Column Description	2-6
Leakage Definitions	2-6	Special Instructions	2-5
Operator/Crew Preventive		•	
Maintenance Checks and			
Services	2-6		

GENERAL

This section contains instructions for performing PMCS on the trailer. The procedure lists checks, services, and criteria to ensure that the trailer 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 operating the vehicle. Pay attention to CAUTIONS and WARNINGS.

Do your during (D) PMCS while operating the vehicle. During means to monitor the vehicle and its related parts while being operated.

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

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 a 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 illness, injury, or loss of life could result from improper use.

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 all metal surfaces. Use soap and water to clean rubber or plastic material.

Bolts, Nuts, and Screws. Check that they are not loose, missing, bent, or broken. Look for chipped paint, bare metal, or rust around boltheads. Report loose nuts and bolts to organizational maintenance.

Welds. Look for loose or chipped paint, rust, or gaps where parts are welded together. Report bad welds to organizational maintenance.

Electric Wires and Connectors. Look for cracked or broken insulation, bare wires, and loose or broken connectors. Report loose connections and faulty wiring to organizational maintenance.

Hoses and Air Lines. Look for wear, damage, or leaks. Make sure clamps and fittings are tight. If a leak comes from a loose fitting or connector, or if something is broken or worn out, notify organizational maintenance.

LEAKAGE DEFINITIONS

It is necessary for you to know how fluid leaks affect the status of the trailer. The following are definitions of the types/classes of leakage needed to determine the status of the trailer. Become familiar with them. When in doubt, notify your supervisor.

Class I – Seepage of fluid (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 fall. Class III – Leakage of fluid great enough to form drops that fall.

CAUTION

When operating with class I or II leaks, check fluid levels more often than that required in the PMCS. Hydraulic brake systems with leaks will stop working if fluid levels are not maintained.

Equipment operation is allowable with minor leaks (class I or II). Consideration must be given to the fluid capacity of the trailer hydraulic system. Notify your supervisor when in doubt.

Class III leaks must be reported to your supervisor or organizational maintenance.

PMCS COLUMN DESCRIPTION

Item No. – 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.

B-BEFORE

Hem To Be Inspected - Lists the check to be performed.

Equipment Is Not Ready/Available If – Has an entry only when the trailer should not be operated or accepted with that problem.

OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES

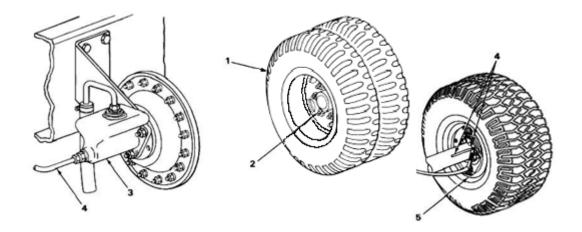
D-DURING

A-AFTER

					, , , , , , , , , , , , , , , , , , ,	
ITEM	INTERVAL		/AL	ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE		
ITEM NO.	В	D	Α	REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:	
1.				TIRES (1)		
	•			a. Check for excessive wear and damage.	Tires are unserviceable.	
	•		•	b. Remove any glass, nails, or stones.		

OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES - CONTINUED

		B-BE	FORE	D-DURING	A-AFTER
ITEM	INTERVAL		ΆL	ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED	EQUIPMENT IS NOT
NO.	В	D	Α	AS NEEDED	READY/AVAILABLE IF:
	*			c. Gage and inflate to 70 psi (483 kPa).	
2.	*			WHEELS	
				Check for missing or loose wheel capnuts (2).	Capnuts loose or missing.
3.	*			SERVICE BRAKE SYSTEM	
				Check for evidence of fluid leaks at master cylinder (3), brake lines (4), and backing plates (5).	Class III leakage is evident.

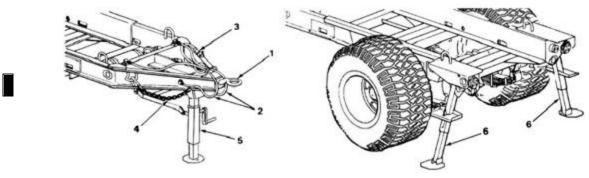


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4.	*	LIGHTS AND REFLECTORS	
		Check for missing or damaged components.	Lights or reflectors damaged or missing.

OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES - CONTINUED

		3-BEFO	RE	D-DURING	A-AFTER
	INTERVAL			ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE	
NO.	В	D	Α	REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
5.	*			LUNETTE, AIRHOSES, INTERVEHICULAR CABLE, AND SAFETY CHAINS	
				Check condition of Lunette (1), air-hoses (2), cable (3), and chains (4).	Parts are unserviceable.
6.	*			LANDING LEG AND STEP JACK Check condition of landing leg (5) and step jacks (6).	Indication a leg might collapse.



Super Single Style Shown

7.	*			HANDBRAKES	
				Check operation and adjust (page 3-4).	
8.		*		BRAKES	
				Check for proper operation.	Brakes will not hold.
9.		*		SUSPENSION AND LOAD	
				a. Listen for unusual noise.	
				b. Check for defective suspension or shifting load.	

OPERATOR/CREW Preventive Maintenance CHECKS AND SERVICES - CONTINUED

	E	B-BEFO	RE	D-DURING	A-AFTER
ITEM NO.	INTERVAL			ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE	EQUIPMENT IS NOT
	В	D	Α	REPAIRED, FILLED, OR ADJUSTED AS NEEDED	READY/AVAILABLE IF:
10.		*		AIR RESERVOIR Open draincock (1) to drain reservoir and close when finished.	
11.			*	FRAME AND SUSPENSION Check frame and suspension for damage.	

Section III. OPERATION UNDER USUAL CONDITIONS

	Page		Page
After Use	2-14	Preparation for Use	2-9
Operation	2-13		

PREPARATION FOR USE

Perform the operator/crew preventive maintenance checks and services in the Before (B) column before continuing with the following procedures.

WARNING

All persons not involved in coupling operation must stand clear of towing vehicle and trailer to prevent possible injury.

1. Review and perform towing vehicle operating procedures to prepare towing vehicle for coupling.

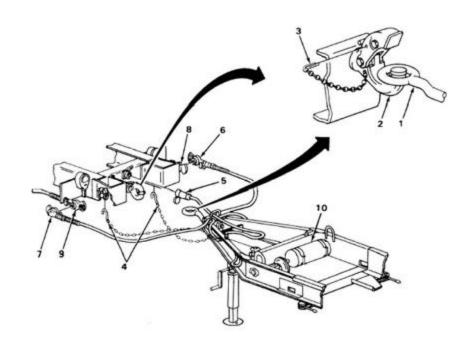
TM 9-2330-205-14&P

PREPARATION FOR USE - CONTINUED

NOTE

Use an assistant to direct you while backing up.

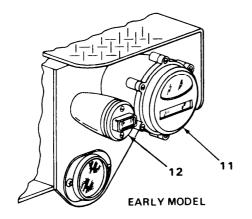
- **2.** Align towing vehicle with trailer.
- 3. Slowly back towing vehicle until Lunette (1) and pintle (2) engage.
- **4.** Install pintle Lockpin (3).
- **5.** Attach safety chains (4) from trailer to towing vehicle by crossing chain under Lunette to opposite side eyebolt.
- **6.** Connect trailer intervehicular cable (5) to towing vehicle.
- 7. Connect trailer service (7) and emergency (6) airhose gladhands to towing vehicle gladhands (8 and 9).
- 8. Check airhose gladhands (6 and 7) and intervehicular cable (5) connector for security.
- **9.** Turn on towing vehicle air supply to pressurize the brake system air reservoir (10).

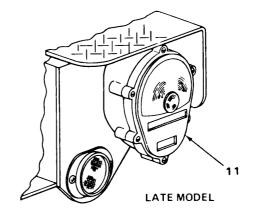


10. Turn on service Lights in towing vehicle and check that all taillights (11) are working.

PREPARATION FOR USE - CONTINUED

- 11. Have an assistant turn on turn signals and apply service brakes. Check that taillights/composite lights (11) flash and brake lights light.
- 12. Check blackout portions of taillights/composite lights (11) for proper operation. Also check operation of blackout stoplight (12) if equipped.

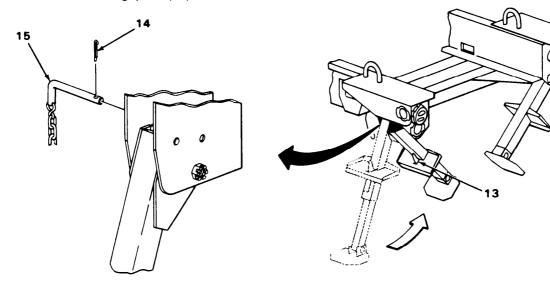




WARNING

Use care when releasing spring-loaded lower tube of step jack. The lower tube will return to retracted position with considerable force and can cause injury.

- 13. Release lower tube latches (13).
- 14. Remove retaining pins (14).
- 15. Remove step jack lockpins (15).
- 16. Swing step jacks inward and install lockpins (15).
- 17. Install retaining pins (14).



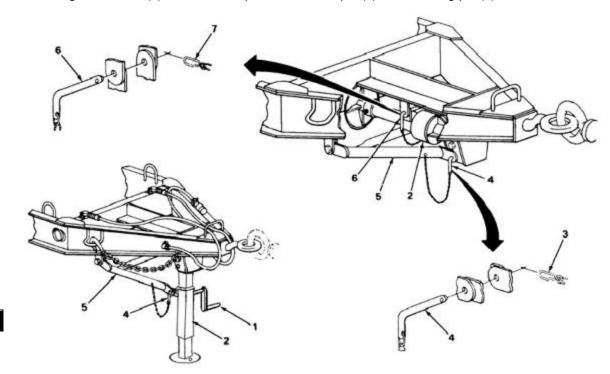
PREPARATION FOR USE - CONTINUED

WARNING

Do not raise landing leg assembly unless trailer is connected to a towing vehicle or is securely supported on jack stands.

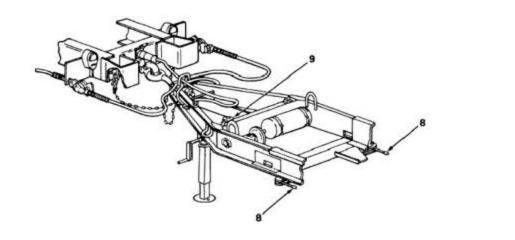
The trailer may fall, causing injury to personnel.

- **18.** Rotate crank handle (1) until landing leg (2) is fully retracted.
- **19.** Position crank handle (1) at its lowest point of rotation.
- 20. Remove retaining pin (3) and lockpin (4) securing back brace (5) to landing leg (2).
- **21.** Allow back brace (5) to swing down.
- 22. Rotate landing leg (2) back and up to its stowed position.
- 23. Install lockpin (6) and retaining pin (7) through landing leg (2) and frame bracket.
- 24. Swing back brace (5) forward and up and install lockpin (4) and retaining pin (3).



- 25. Release handbrake levers (8).
- **26.** Have an assistant apply and release towing vehicle service brakes.
- **27.** Check that trailer relay valve (9) vents with each application and release of towing vehicle service brakes. Venting of air should be heard.

PREPARATION FOR USE - CONTINUED



OPERATION

DRIVING

When driving the towing vehicle and trailer, the overall length of the unit must be kept in mind when passing other vehicles and when turning. Backing is also affected because the unit is hinged in the middle.

TURNING

When turning corners, allow for the fact that the trailer wheels turn inside the turning radius of the towing vehicle. Make right turns by driving the towing vehicle about halfway into intersection, and then cutting sharply to the right. This will keep trailer wheels off the curb. Keep the vehicle close enough to the edge of the road to prevent vehicles following from passing on the right.

STOPPING

During normal operation, stepping on the brake pedal will apply both towing vehicle and trailer brakes at the same time. Apply brakes gradually and smoothly.

PARKING

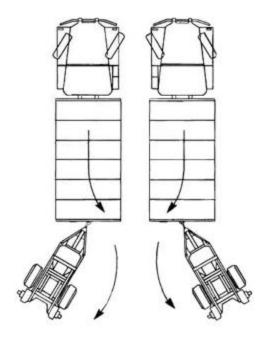
When parking for extended periods, both the towing vehicle and trailer parking brakes should be set. You cannot use the trailer service brakes for long-term parking. The air pressure is gradually and automatically vented if they are left applied. The service brakes will release as the air is vented.

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OPERATION - CONTINUED

BACKING

Use an assistant to guide you while backing. Adjust rear-view mirrors before backing. When the towing vehicle and trailer are in a straight line, the rear of the trailer will move opposite to the direction the front towing vehicle wheels are turned. When the towing vehicle wheels are turned to the right, the rear of the trailer will move to the left as you back up. When the towing vehicle wheels are turned to the left, the rear of the trailer will move to the right.

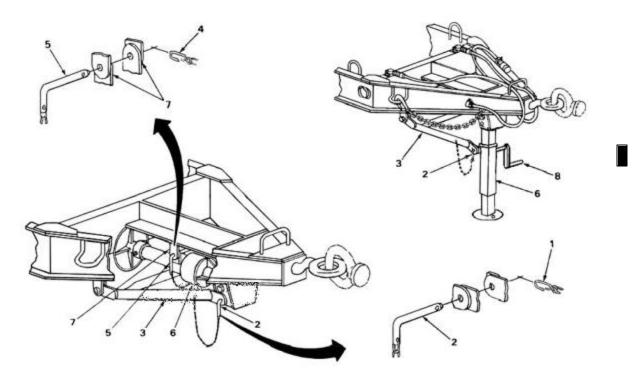


Super Single Style Shown

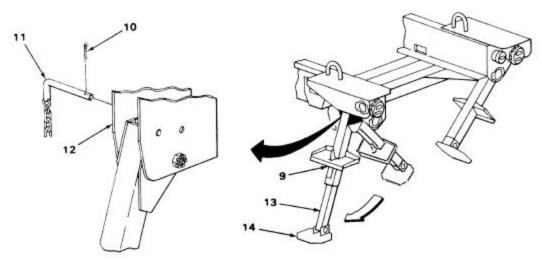
AFTER USE

- 1. Remove retaining pin (1) and lockpin (2), allowing back brace (3) to swing down and back.
- 2. Remove retaining pin (4) and lockpin (5) from landing leg (6) and frame bracket (7) allowing landing leg to swing down and forward.
- 3. Swing back brace (3) forward and secure it to landing leg (6) with lockpin (2) and retaining pin (1).
- 4. Rotate crank handle (8) counterclockwise to extend landing leg (6) and remove trailer weight from pintle.

AFTER USE - CONTINUED



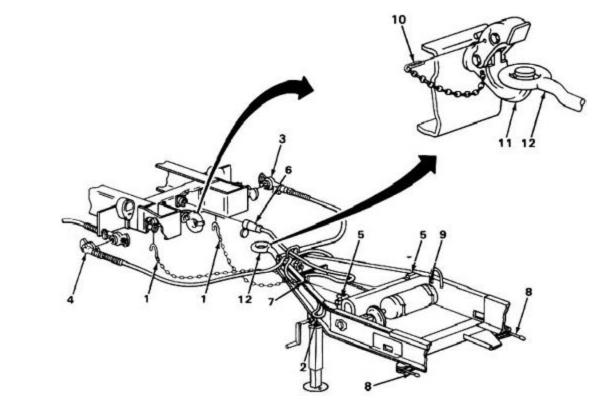
- 5. Swing step jack (9) inward and remove retaining pins (10) and lockpins (11).
- 6. Allow step jack (9) to swing down and out.
- 7. Aline lockpin holes in step jacks (9) and frame (12).
- 8. Install lockpins (11) and retaining pins (10).
- 9. Extend lower tubes (13) by stepping on hinged pads (14).



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AFTER USE - CONTINUED

- 10. Unhook safety chains (1) from towing vehicle and hook to trailer tiedown loop (2).
- 11. Close air supply valves on towing vehicle.
- 12. Uncouple service (4) and emergency (3) air gladhands from towing vehicle and secure to dummy couplings (5) on trailer.
- 13. Unplug intervehicular cable connector (6) and stow loop (7).
- 14. Set trailer handbrakes (8) and release air pressure from air reservoir (9).
- 15. Remove safety pin (10) from pintle (11).
- 16. Have an assistant drive towing vehicle to uncouple lunette (12) from pintle (11).



Section IV. OPERATION UNDER UNUSUAL CONDITIONS

	Page		Page
Fording	2-18	Operation in Saltwater Areas	2-17
Operation in Extreme Cold	2-17	Operation in Sandy or Dusty	
Operation in Extreme Heat	2-17	Areas	2-17
Operation in Mud	2-17	Operation in Snow	2-17

OPERATION IN EXTREME COLD

- 1. Refer to the lubrication chart (page 4-3) for proper lubricants to use in extreme cold.
- 2. Extreme cold can cause insulation material on electrical wire to crack and cause short circuits, and other construction materials to become hard, brittle, and easily damaged or broken.
- 3. Tires may freeze to ground or have flat spots if underinflated.
- 4. Brakeshoes may freeze to brakedrum and will need to be heated to prevent damage to mating surfaces.
- 5. Refer to FM 9-207 and FM 21-305 for special instructions on driving hazards in extreme cold.
- 6. When parking short term, park in a sheltered area out of the wind.
- 7. For parking long term, place footing of planks or brush under trailer wheels, landing gear, and step jack.
- 8. Remove all built-up ice, snow, and mud as soon as possible after use.
- 9. Shield the trailer with canvas covers, if available. Keep cover ends off the ground to keep them from freezing to the ground.

OPERATION IN EXTREME HEAT

- 1. Refer to the lubrication chart for proper lubricants to use in extreme heat.
- 2. Do not park the trailer in sunlight for long periods of time. Heat and sunlight shorten tire life. Shelter or cover the trailer with canvas if available.

OPERATION IN SANDY OR DUSTY AREAS

Clean, inspect, and lubricate more often in dusty or sandy areas.

OPERATION IN SNOW

See FM 21-305 for special instructions on operating in snow.

OPERATION IN SALTWATER AREAS

Saltwater will cause rapid rust and corrosion to develop. Clean, inspect, and lubricate more often than scheduled.

OPERATION IN MUD

Thoroughly clean and lubricate all parts contaminated by mud as soon as possible after operating in mud. Pack wheel bearings if necessary.

FORDING

- 1. Check bottom surface of stream or river. If bottom surface is too soft, do not ford.
- 2. After fording, apply the brakes a few times to help dry out the brake lining. Be sure brakes are operating properly before driving at normal speeds.
- 3. Lubricate all unpainted surfaces with lubricating oil.
- 4. Lubricate the trailer in accordance with the lubrication chart on page 4-3.
- 5. Refer to TM 9-238 for deepwater fording information.

CHAPTER 3

OPERATOR MAINTENANCE

OVERVIEW

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

		Page
Section I.	Lubrication Instructions	3-1
Section II.	Operator Troubleshooting Procedures	3-1
Section III.	Operator Maintenance Procedures	3-3

Section I. LUBRICATION INSTRUCTIONS

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

Section II. OPERATOR TROUBLESHOOTING PROCEDURES

	Page		Page
Explanation of Columns	3-1	Operator Troubleshooting	. 3-2
General	3-1	Symptom Index	3-2

GENERAL

This section lists the common malfunctions that you may find during operation of the trailer and its components. Perform the tests, inspections, and corrective actions 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 is not corrected by the corrective actions listed, notify your supervisor.

EXPLANATION OF COLUMNS

Malfunction. Visual or operational indication that something is wrong with the trailer.

Test/Inspection. Procedure to isolate problem to a component or system.

Corrective Action. Procedure to correct problem.

SYMPTOM INDEX

This symptom index is provided as a guide to the troubleshooting procedure that will help you solve the problem you're having.

	Page
ELECTRICAL SYSTEM	
All lamps fail to light One or more (but not all) lamps fail to light	3-2 . 3-2
BRAKES	
No brakes	3-3

OPERATOR TROUBLESHOOTING

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM

1. ALL LAMPS FAIL TO LIGHT.

Step 1. Check that intervehicular cable is properly connected.

Reconnect.

Step 2. Check towing vehicle circuit breaker/fuse.

Refer to towing vehicle technical manual for maintenance instructions.

If lamps still do not light, notify organizational maintenance.

2. ONE OR MORE (BUT NOT ALL) LAMPS FAIL TO LIGHT.

Check for loose connector at affected light.

Reconnect.

If lamp still fails to light, notify organizational maintenance.

OPERATOR TROUBLESHOOTING - CONTINUED

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

BRAKES

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	141	DD	⊢r\	_,,

Step 1. Check for open draincock on air reservoir.

Close draincock.

Step 2. Check for closed air valves on towing vehicle.

Open air valves.

Step 3. Check air line gladhands for proper connection (emergency-to-emergency and service-to-service).

Reconnect.

If you still have no brakes, notify organizational maintenance.

step 4. Check for hydraulic leaks.

Notify organizational maintenance.

Section III. OPERATOR MAINTENANCE PROCEDURES

	Page		raye
Handbrake	3-4	Wheel and Tire	3-5

NOTE

Personnel are listed only if the task requires more than one technician. If Personnel Required is not listed, one technician can do the task.

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HANDBRAKE

This task covers:

Adjustment

INITIAL SETUP

Tools

Jack, hydra	aulic	
LOCATION	ITEM	ACTION REMARKS
	Procedure is for one ha	NOTE andbrake. Repeat procedure for opposite side.
1. Axle (1)	Wheels (2)	Using hydraulic jack (3), raise.
2. Chassis	Handbrake lever (4)	Release.
3. Handbrake lever (4)	Adjusting knob (5)	Adjust by turning clockwise to tighten or counterclockwise to loosen. Wheel and tire should lock when hand-brake lever travels no more than two-thirds.
4. Chassis	Handbrake lever (4)	Release. Wheel and tire should turn freely.
5. Axle	Wheels (2)	Using hydraulic jack, lower. Remove jack.
TYPICAL BOTH S	SIDES	

Super Single Style Shown

TASK ENDS HERE

WHEEL AND TIRE

This task covers:

- a. Removal (page 3-5)
- b. Installation (page 3-6)

INITIAL SETUP

Tools

Handle, 3/4-inch square drive Jack, hydraulic

Tools - Continued

Socket, wheel, 1 1/2-by 7/8- by 3/4-inch square drive

LOCATION ITEM ACTION REMARKS

REMOVAL

NOTE

Outer capnuts are marked R on right wheel and L on left wheel. Nuts must be turned in opposite direction to normal forward rotation of wheel to be loosened or removed.

1.	Wheels and tires (1 and 2)	Six outer (3) and six inner (4) capnuts	Using wheel socket, loosen nuts. Do not remove nuts.
2.	Axle (5)	Wheels and tires (1 and 2)	Using hydraulic jack (6), raise.
3.	Six inner capnuts (4)	Six outer capnuts (3)	Using wheel socket, remove.
4.		Outer wheel and tire (1)	Remove.
			5

WHEEL AND TIRE - CONTINUED

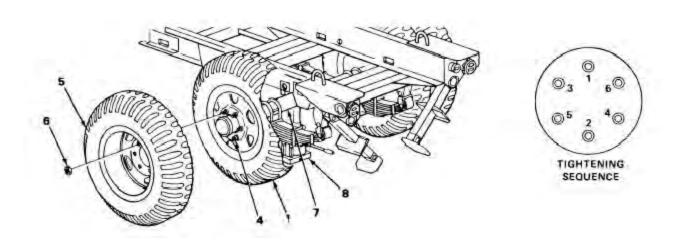
	LOCATION	ITEM	ACTION REMARKS
REMO	OVAL – CONTINUED		
5.	Inner wheel (1)	Six inner capnuts (2)	Using wheel socket, remove.
6.	Hub (3)	Inner wheel (1)	Remove.
INSTA	ALLATION		
7.	Inner wheel (1)	Hub (2)	Position wheel on hub studs (3).
8.		Six inner capnuts (4)	Using wheel socket, install. Tighten using illustrated tightening sequence.
	4		TIGHTENING SEQUENCE

WHEEL AND TIRE - CONTINUED

LOCATION	ITEM	ACTION REMARKS
9. Six inner capnuts (4)	Outer wheel (5)	Place in position. Position inner and outer valve stems as far apart as possible.
10. Six outer capnuts (6)		Using wheel socket, install. Tighten using illustrated tightening sequence.
11. Axle (7)	Wheels and tires (1 and 5)	Using hydraulic jack (8), lower. Remove jack.
12. Outer wheel (5)	Six inner (4) and six outer capnuts(6)	Using wheel socket and illustrated tightening sequence, retighten.

NOTE

Have organizational maintenance torque capnuts using torque wrench to 450 to 500 ft lb (610 to 678 $N^{\circ}m$).



TASK ENDS HERE

WHEEL AND TIRE (Super Single Style)

This task covers:

- a. Removal (page 3-5)
- b. Installation (page 3-6)

INITIAL SETUP

Tools Tools – Continued

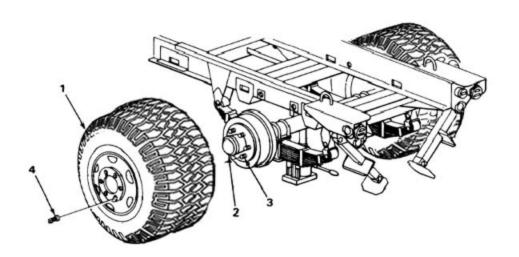
Handle, 3/4-inch square drive Socket, wheel, 1 1/2-by 7/8- by

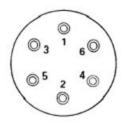
Jack, hydraulic 3/4-inch square drive

Jack, nydra	ulic	3/4-inch square drive	
LOCATION	ITEM	ACTION REMARKS	
REMOVAL			
1. Wheel and tire (1)	Six capnuts (4)	Using wheel socket, loosen nuts. Do not remove nuts .	
2. Axle	Wheel and tire (1)	Using hydraulic jack, raise.	
3. Hub studs (3)	12 capnuts (4)	Using wheel socket, remove capnuts.	
4. Hub (2)	Wheel and tire (1)	Remove.	
INSTALLATION			
5. Hub (2)	Wheel and tire (1)	Position wheel on hub studs (3).	
6. Hub studs (3)	Six capnuts (4)	Using wheel socket, install. (4) Tighten using illustrated tightening sequence.	
7. Axle	Wheel and tire (1)	Using hydraulic jack, lower. Remove jack.	
		NOTE	

NOTE

Have organizational maintenance torque capnuts using torque wrench to 450 to 500 ft lb (610 to 678 N•m).





TIGHTENING SEQUENCE

CHAPTER 4

ORGANIZATIONAL MAINTENANCE

OVERVIEW

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

		Page
Section I.	Lubrication Instructions	4-2
Section II.	Repair Parts, Special Tools; Test, Measurement,	
	and Diagnostic Equipment (TMDE); and Sup-	
	port Equipment	4-5
Section III.	Service Upon Receipt	4-5
Section IV.	Organizational Preventive Maintenance Checks and	
	Services	4-7
Section V.	Organizational Troubleshooting Procedures	4-10
Section VI.	General Maintenance Instructions	4-14
Section VII.	Electrical System	4-16
Section VIII.	Axle	4-31
Section IX.	Brake System	4-36
Section X.	Wheel, Tire, Hub, and Drum	4-76
Section XI.	Frame and Towing Attachment	4-82
Section XII.	Spring	
Section XIII.	Body Accessory	4-93
Section XIV.	Preparation for Storage and Shipment	



Section I. LUBRICATION INSTRUCTIONS

		Page			Page
Lubrication	Chart	4-3	Lubrication	Instructions	4-2

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.

LUBRICATION CHART

Refer to the lubrication chart on the following page for lubrication under normal conditions. Refer to FM 9-207 for instructions on lubrication in weather below 0°F (-18°C). Refer to TM 9-238 for instructions on lubrication before and after fording. Clean and inspect all lubrication points after operating in mud, dust, sand, or other unusual conditions. Lubricate the trailer in accordance with the lubrication chart.

LUBRICATION CHART

CHASSIS, TRAILER: GENERATOR 2 1/2 TON, 2-WHEEL, M200A1 (2330-00-331-2307)

Hard-time intervals and related man-hour times are based on normal operation, The man-hour time specified is the time you need to do all services prescribed for a particular interval. Change the interval if your lubricants are contaminated or if you are operating equipment under adverse conditions, including longer-than-usual operating hours. The interval may be extended during periods of low activity. If extended, adequate preservation precautions must be taken.

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

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 hoot. Flash point of solvent is 138° F (59° C). Serious illness, injury, or loss of life could result from improper use.

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

LUBRICANT • INTERVAL INTERVAL . LUBRICANT Step jack GAA Spring shackles (See Note 3.) Spring shackle GAA bolts (two fittings) Emergency brake cable Wheel bearing GAA (See Note 4.) GAA Landing **BFS** Hydraulic leg gearbox brake master cylinder (See Note 5.) **TOTAL MAN-HOURS* MAN-HOURS** INTERVAL 1.5 0.7 * The time specified is the time required to perform all services at the particular interval.

- K E Y -

		EX	PECTED TEMPERAT		
LUI	BRICANTS	ABOVE +15° F (ABOVE -9°C)	+40° F TO -15° F (+4° C TO -26° C)	+40° F TO -65° F (+4° F TO -54° C)	INTERVALS
OE/HDO	Lubricating oil, internal combustion engine, tactical service Lubricating oil, internal combustion, arctic Oilcan points (See Note 2.)	OE/HDO-30	OE/HDO-10	OEA (See Note 1.)	A – Annually S – Semiannually
BFS	Brake fluid silicone, automotive Master cylinder		All Temperatures		
GAA	Grease, automotive and artillery		All Temperatures		

NOTES:

- 1. For operation of equipment in protracted cold temperatures below -15° F (-26° C), remove lubricants prescribed in the key for temperatures above -15° F (-26° C). Relubricate with lubricants specified in the key for temperatures below -15° F (-26° C). If OEA lubricant is required to meet the temperature changes prescribed in the key, OEA lubricant is to be used in place of OE/HDO-10 lubricant for all temperature ranges where OE/HDO-10 lubricant is specified in the key.
- 2. Oilcan Points. Every 6 months, lubricate linkage, pins, clevises, and all exposed adjusting threads with OE/HDO.
- 3. Step Jack: Every 6 months, extend inner leg fully and coat lightly with ${\sf GAA}.$
- 4. Wheel Bearings: Every 12 months, remove, clean, and repack with GAA. Refer to TM 9-214, Inspection, Care, and Maintenance of Antifriction Bearings.
- 5. Landing Leg Gearbox Lubricate at time of disassembly.
- 6, Lubricants: The following is a list of lubricants with military symbols and applicable specification numbers:

OE/HDO - MIL-L-2104C OEA - MIL-L-46167 GAA - MIL-G-10924C BFS - MIL-B-46176

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

	Page		Page				
Common Tools and Equipment		Special Tools, TMDE, and Support Equipment	4-5				
COMMON TOOLS AND EQUIPMENT							
Refer to the Modified Table of Organization equipment applicable to your unit.	Refer to the Modified Table of Organization and Equipment (MTOE) for authorized common tools and equipment applicable to your unit.						
SPECIAL TOOLS, TMDE, AND SUPPORT E	QUIPMEN	т					
No special tools, TM DE, or support equipment	nent are re	equired to maintain the trailer.					
REPAIR PARTS							
Repair parts are listed and illustrated in app	pendix F o	of this manual.					
Section III.	SERVIC	CE UPON RECEIPT					
	Page		Page				
Preliminary Servicing and Adjustment of Equipment	4-6	Service Upon Receipt of Materiel	4-5				
SERVICE UPON RECEIPT OF MATERIEL							
This task covers:							
a. Unpacking (page 4-6) b. Checking unpacked equipment (page 4-6)							
INITIAL SETUP							
Tools		Materials/Parts					
Cutter, strap Puller, nail		Drycleaning solvent PD-680 (item 10, appendix E) Rags (item 7, appendix E)					

SERVICE UPON RECEIPT OF MATERIEL - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
UNPAC	CKING		
1.	Trailer	DD Form 1397	Read and follow all instructions.
2.		Metal straps, ply- wood, tape, seals, and wrappings	Using strap cutter and nail puller, remove all straps, plywood, tape, seals, and wrappings.

CHECKING UNPACKED EQUIPMENT

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 illness, injury, or loss of life could result from improper use.

3.	Trailer	Coated exterior parts	Using drycleaning solvent and rags, remove rust preventive compound.
4.		Trailer	a. Inspect for any damage during shipment.b. Check for modification of equipment.
5.		Equipment packing list	Check equipment against packing list for completeness. Discrepancies must be reported in accordance with instructions in TM 38-750.

TASK ENDS HERE

PRELIMINARY SERVICING AND ADJUSTMENT OF EQUIPMENT

Perform the operator and organizational preventive maintenance checks and services (PMCS) as described on pages 2-6 and 4-7.

Lubricate all lubrication points as shown in the Lubrication Chart (page 4-3), regardless of interval.

PRELIMINARY SERVICING AND ADJUSTMENT OF EQUIPMENT - CONTINUED

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

Report all problems on DD Form 2407, Maintenance Request, if the deficiencies appear to involve unsatisfactory design.

Perform a break-in road test of 25 miles (40.2 kilometers) at a maximum speed of 55 miles per hour (88.5 kilometers per hour)

Section IV. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

	Page		Page
General	4-7	PMCS Column Description	4-8
Organizational Preventive Main	te-	Special Instructions	4-7
nance Checks and Services	4-9		

GENERAL

The trailer 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 will be recorded on DA Form 2404.

SPECIAL INSTRUCTIONS

Do your (S) PMCS once every 6 months.

Do your (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've had practice, you will spot anything wrong in a hurry.

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 and notify your supervisor.

SPECIAL INSTRUCTIONS - CONTINUED

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 illness, injury, or loss of life could result from improper use.

NOTE

When you are doing any PMCS or routine checks, keep in mind the warnings and cautions.

Routine checks, like those listed below, are not listed in the PMCS checks. They are things that you should do any time you see they must be done. If you find a routine check in your PMCS, it is because other operators reported problems with this item.

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 cleaning rubber or plastic material.

Bolts, Nuts, and Screws. Check that they are not loose, missing, bent, or broken. You can't try them all with a tool but look for chipped paint, bare metal, or rust around boltheads. Tighten any that you find loose.

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.

Electric Wires and Connectors. Look for cracked or broken insulation, bare wires, and loose or broken connectors. Tighten loose connections and make sure wires are in good condition.

Hoses and Lines. Look for wear, damage, and leaks. Make sure clamps and fittings are tight. 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 MAC).

PMCS COLUMN DESCRIPTION

Item No. – 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.

Interval - Tells when each task is to be performed.

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

ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES

S-SEMIANNUALLY

A-ANNUALLY

ITEM NO.			ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, REPLACED, OR ADJUSTED AS NEEDED
			NOTE
			Perform operator/crew PMCS prior to or in conjunction with organizational PMCS.
1.	•		FRAME
			Look for cracks, bent members, or broken welds.
2.	•		BRAKE MASTER CYLINDER
			Check fluid level and fill to 1/2 inch from top.
3.		•	WHEEL BEARINGS AND BRAKE ASSEMBLIES
			a. Remove wheel hubs and brakedrums (page 4-76).
			b. Clean, inspect, repack, or replace bearings.
			c. Clean, inspect, and replace brake parts as required (page 4-43).
			d. Adjust brakes (page 4-46).
4.	•		WHEELS AND TIRES
			 a. Check serviceability of tires as indicated in TM 9-2610-200-24, Organizational Care, Maintenance, and Repair of Pneumatic Tires, Inner Tubes, and Radial Tires.
			b. Tighten wheel nuts to 450 − 500 ft lb (611 − 678 N•m).
5.	•		SUSPENSION
			Check for bent or cracked parts, loose mountings, and worn bushings.

Section V. ORGANIZATIONAL TROUBLESHOOTING PROCEDURES

	Page	Page
Explanation of Columns	4-10	Organizational Troubleshooting 4-11
General	4-10	Symptom Index

GENERAL

The table in this section lists the common malfunctions that may be found during the operation or maintenance of the trailer or components. Do the tests or inspections and corrective actions 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 is not corrected by the corrective action column, notify your supervisor.

Trailer must be hooked to towing vehicle when performing electrical or brake tests.

EXPLANATION OF COLUMNS

Malfunction. Visual or operational indication that something is wrong with your trailer.

Test/Inspection. Procedure used to isolate the problem to a system or a 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 troubleshooting procedure that will help you solve the problem that you are having.

	Page
BRAKE SYSTEM	
Brakes will not release	
ELECTRICAL SYSTEM	
Lamps dim or flickering One or more lamps fail to light	4-11 4-11

NOTE

Refer to the electrical schematic on page 1-8 when performing any electrical troubleshooting.

ORGANIZATIONAL TROUBLESHOOTING

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM

- 1. ONE OR MORE LAMPS FAIL TO LIGHT.
 - Step 1. Check lamps.

Remove and replace as required:

Blackout light (page 4-17).

Composite light (page 4-20).

Service taillight (page 4-19).

- Step 2. Check for continuity between edge of lamp socket and light assembly housing and center post of lamp socket and related light assembly plug connector.
 - If no continuity exists, replace light assembly:

Blackout light (page 4-17).

Composite light (page 4-20).

Service taillight (page 4-19).

- Step 3. Check continuity between edge of lamp socket and trailer frame.
 - If no continuity exists, clean mating surfaces.
- Step 4. Disconnect main harness from intervehicular cable. Have assistant operate lights while you check voltage in affected lines of intervehicular cable.

If 24 volts are present in all affected lines, replace main harness (page 4-25).

Step 5. Disconnect intervehicular cable from towing vehicle receptacle. Have assistant operate lights while you check voltage at receptacle.

If 24 volts are present at receptacle, replace cable.

If 24 volts are not present at receptacle, check TM for towing vehicle.

- 2. LAMPS DIM OR FLICKERING.
 - Step 1. Check continuity between intervehicular cable pin D and ground wire eyelet end.

If no continuity exists, replace cable.

ORGANIZATIONAL TROUBLESHOOTING - CONTINUED

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

2. LAMPS DIM OR FLICKERING - CONTINUED.

Step 2. Check continuity between ground wire eyelet end and trailer frame.

If no continuity exists, remove eyelet and clean mating surfaces.

Step 3. Check continuity between edge of lamp socket and light assembly housing.

If no continuity exists, replace light assembly:

Blackout light (page 4-17).

Composite light (page 4-20).

Service taillight (page 4-19).

Step 4. Check continuity between edge of lamp socket and trailer frame.

If no continuity exists, clean mating surfaces.

BRAKE SYSTEM

3. BRAKES WILL NOT RELEASE.

NOTE

If only one wheel's brake will not release, proceed to step 4.

Step 1. Check relay valve for proper operation. Refer to page 2-12, step 27.

WARNING

Before performing any maintenance tasks on brake system, disconnect trailer air lines from towing vehicle and open draincock to release all air pressure from system. Serious injury may result from failure to do so.

Replace relay valve as required (page 4-57).

Step 2. Check airbrake chamber for insufficient push rod travel.

Adjust service brakes as required (page 4-46).

WARNING

All parts of the service brake assembly will be coated with asbestos dust from the brake linings. A filter mask should be worn whenever working on any assembly components. Breathing asbestos dust may cause serious damage to health.

ORGANIZATIONAL TROUBLESHOOTING - CONTINUED

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

Step 3. Check service airhose and lines for obstructions.

Remove airhose and lines to clear obstructions (page 4-72).

Replace airhose and lines as required (page 4-72).

Step 4. Check for binding handbrake cable.

Replace cable as required (page 4-38).

Step 5. Check for separation of brake lining from brakeshoe.

Replace as required (page 4-41).

4. WEAK OR NO BRAKES.

Step 1. Check fluid level in master cylinder.

Replenish fluid as required (page 4-9).

Bleed brakes (page 4-55).

Step 2. Check relay valve for proper operation.

WARNING

Before performing any maintenance tasks on brake system, disconnect trailer air lines from towing vehicle and open draincock to release all air pressure from system. Serious injury may result from failure to do so.

Replace relay valve as required (page 4-57).

Step 3. Check airbrake chamber for excessive push rod travel.

Adjust service brakes as required (page 4-46).

Step 4. Check for worn brake linings.

Replace as required (page 4-41).

Step 5. Inspect wheel cylinders for binding or leaking.

Replace as required (page 4-48).

Section VI. GENERAL MAINTENANCE INSTRUCTIONS

		Page		Page
Cleaning	Instructions	4-14	Inspection Instructions	. 4-15
General		4-14		

GENERAL

Each maintenance section provides instructions for organizational maintenance personnel. The following initial setup information applies to all procedures.

Resources required are not listed unless they apply to the procedure.

Personnel are listed only if the task requires more than one technician. If Personnel Required is not listed, one technician can do the task.

The normal standard equipment condition to start a maintenance task is power off. Equipment condition is not listed unless some other condition is required.

WARNING

Improper cleaning methods and use of unauthorized cleaning liquids or solvent can injure personnel and damage equipment. Refer to TM 9-247.

CLEANING INSTRUCTIONS

The cleaning instructions will be the same for the majority of parts and components that make up the trailer.

The importance of cleaning must be thoroughly understood by maintenance personnel. 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. Keep hands free of grease, which can collect dust, dirt, or grit.
- 3. After cleaning, cover or wrap all parts to protect them from dust and dirt. Lightly oil parts that are subject to rust.

STEAM CLEANING

Protect all electrical equipment that can be damaged by the steam or moisture before steam cleaning the exterior of the trailer.

Place disassembled parts in a suitable container to steam clean.

Dry and cover (or lightly oil) all parts subject to rust after cleaning.

CLEANING INSTRUCTIONS - CONTINUED

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 (59°C). Serious illness, injury, or loss of life could result from improper use.

Clean inner and outer surfaces with drycleaning solvent.

Remove grease and accumulated deposits with a stiff bristle brush.

Check machined surfaces for scoring or obvious damage.

WARNING

Particles blown by compressed air are hazardous. Make certain the airstream is directed away from user and other personnel in the area. User must wear safety eye goggles or face shield to prevent injury when using compressed air. Make certain that airstream is less than 30 psig.

Blow out all threaded holes with compressed air to remove dirt and cleaning fluids.

ELECTRICAL CABLES, FLEXIBLE HOSE, AND OIL SEALS

CAUTION

Washing oil seals, 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 soap solution, and wipe dry. Oil seals are generally damaged during removal, so cleaning will not be necessary because new seals will be used on assembly.

BEARINGS

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

INSPECTION INSTRUCTIONS

All components and parts must be checked carefully to determine if they are serviceable for reuse, can be repaired, or must be scrapped.

DRILLED AND THREADED HOLES AND SURFACES

Inspect for wear, distortion, cracks, or any other damage in or around holes and surfaces.

Inspect threaded areas for wear, distortion, or evidence of cross threading.

Mark all damaged areas for repair or replacement.

INSPECTION INSTRUCTIONS - CONTINUED

METAL LINES, FLEXIBLE LINES (HOSES), AND METAL FITTINGS

Inspect metal lines for sharp kinks, cracks, bad bends, or if badly dented.

Inspect flexible lines for fraying, evidence of leakage, or loose metal fittings or connectors.

GEARS

Inspect gear teeth for wear, chips, or breakage.

Inspect gear shafts for wear or grooving.

BUSHINGS

Inspect bushings for excessive wear, elongation, or grooving.

Section VII. ELECTRICAL SYSTEM

	Page		Page
Blackout Stoplight	4-17	InterVehicular Cable	4-23
Blackout Stoplight Lamp and Lens	. 4-16	Main Harness	4-25
Composite Light	4-22	Service Taillight	4-19
Composite Light Lamp and Lens	. 4-20	Service Taillight Lamp and Lens	. 4-18
General	4-16	Wiring Harness Repair	4-27

GENERAL

This section provides instructions for organizational maintenance of the electrical system. Good contacts are essential to good operation of the electrical system. When replacing a light assembly make certain that there is no paint on the mating surfaces. If, after performing a maintenance task, the electrical system does not operate properly, troubleshoot in accordance with the instructions in the troubleshooting section.

BLACKOUT STOPLIGHT LAMP AND LENS

This task covers:

- a. Removal (page 4-17)
- b. Installation (page 4-17)

INITIAL SETUP

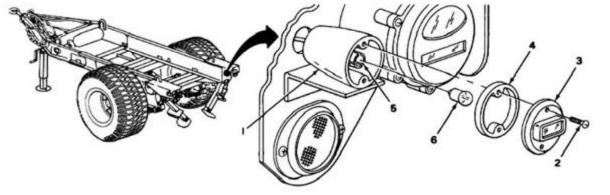
Tools Materials/Parts

Screwdriver, flat-tip Lamp

Lens

BLACKOUT STOPLIGHT LAMP AND LENS - CONTINUED

LOCATION	ITEM	ACTION REMARKS
REMOVAL		
1. Body (1)	Two screws (2), lens (3), and gasket (4)	Using screwdriver, remove. Retain gasket (4).
2. Socket (5)	Lamp (6)	Push into socket, turn counterclockwise, and remove.
INSTALLATION		
3. Socket (5)	Lamp (6)	Push into socket and turn clockwise.
4. Body (1)	Gasket (4), lens (3), and two screws (2)	Using screwdriver, install.



TASK ENDS HERE

Super Single Style Shown

BLACKOUT STOPLIGHT

This task covers:

- a. Removal (page 4-18)
- b. Installation (page 4-18)

INITIAL SETUP

Tools
Handle, reversible, 3/8-inch
square drive

Tools Continued Socket, 1/2- by 3/8-inch square drive

BLACKOUT STOPLIGHT - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
REMO'	VAL		
1.	Blackout stoplight (1)	Electrical connectors (2 and 3)	Pull connector (2) from main harness connector (3).
2.	Bracket (4)	Capscrew (5) and lockwasher (6)	Using 1/2-inch socket, unscrew and remove blackout stoplight (1).
INSTA	LLATION		
3.	Bracket (4)	Capscrew (5) and lockwasher (6)	Using 1/2-inch socket, attach blackout stoplight (1).
4.	Blackout stoplight (1)	Electrical connectors (2 and 3)	Push connector (3) firmly into connector (2).
	3	6 5	

TASK ENDS HERE

SERVICE TAILLIGHT LAMP AND LENS

This task covers:

- a. Removal (page 4-19)
- b. Installation (page 4-19)

INITIAL SETUP

Tools Materials/Parts

Screwdriver, flat-tip Lamp
Lens

SERVICE TAILLIGHT LAMP AND LENS - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
REMO\	VAL		
1.	Body (1)	Six captive screws (2), lens (3), and gasket (4)	Using screwdriver, unscrew and remove lens (3). Retain gasket (4).
2.	Three sockets (5)	Three lamps (6)	Push in, turn counterclockwise, and remove.
INSTAL	LATION		
3.	Three sockets (5)	Three lamps (6)	Push in and turn clockwise.
4.	Body (1)	Gasket (4), lens (3), and six captive screws (2)	Using screwdriver. install.
1_		5	

TASK ENDS HERE

SERVICE TAILLIGHT

This task covers:

- a. Removal (page 4-20)
- b. Installation (page 4-20)

INITIAL SETUP

Tools

Handle, reversible, 3/8-inch square drive

Tools - Continued

Socket, 9/16- by 3/8-inch square drive

SERVICE TAILLIGHT - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
REMO	OVAL		
1.	Service taillight (1)	Three electrical connectors (2 and 3)	Pull connectors (2) from main harness connectors (3).
2.		Two capscrews (4) and two lock-washers (5)	Using 9/16-inch socket, unscrew and remove taillight (1).
INSTA	LLATION		
3.	Service taillight (1)	Two capscrews (4) and two lockwashers (5)	Using 9/16-inch socket, attach taillight (1).
4.		Three electrical connectors (2 and 3)	Push connectors (3) firmly into connectors (2).
	3		

TASK ENDS HERE

COMPOSITE LIGHT LAMP AND LENS

This task covers:

- a. Removal (page 4-21)
- b. Installation (page 4-21)

COMPOSITE LIGHT LAMP AND LENS - CONTINUED

INITIAL SETUP

Tools Materials/Parts

Screwdriver, flat Lamp

	Lens		
	LOCATION	ITEM	ACTION REMARKS
REMO	VAL		
1.	Body (1)	Six captive screws (2), lens (3), and packing (4)	Using screwdriver, unscrew and remove lens (3). Retain gasket (4).
2.	Four sockets (5)	Four lamps (6)	Push into socket (5), turn counterclockwise, and remove.
INSTA	LLATION		
3.	Four sockets (5)	Four lamps (6)	Push into socket (5) and turn clockwise.
4.	Body (1)	Packing (4), lens (3), and six captive screws (2)	Using screwdriver, install.

TASK ENDS HERE

COMPOSITE LIGHT

This task covers:

- a. Removal (page 4-22)
- b. Installation (page 4-22)

INITIAL SETUP

Tools Tools - Continued

Handle, reversible, 3/8-inch square drive

Socket, 9/16- by 3/8-inch square drive

	LOCATION	ITEM	ACTION REMARKS
REMO\	/AL		
1.	Wiring (1)	Four electrical connectors (2 and 3)	Pull four connectors (2) from main harness connectors (3).
2.	Trailer chassis (4)	Two capscrews (5) and lockwashers (6)	Using 9/16-inch socket, unscrew and remove composite light (7).
INSTAL	LATION		
3.	Trailer chassis (4)	Two capscrews (5) and lockwashers (6)	Using 9/16-inch socket, attach composite light (7).
4.	Wiring (1)	Three electrical connectors (2 and 3)	Push connectors (2) firmly into connectors (3).
	5 6 3		

TASK ENDS HERE

INTERVEHICULAR CABLE

This task covers:

- a. Removal (page 4-23)
- b. Installation (page 4-24)

INITIAL SETUP

Tools - Continued Tools

Extension, 6-inch, 1/4-inch square drive Handle, reversible, 1/4-inch square

drive

Screwdriver, flat-tip Socket, 11/32- by 1/4-inch square drive Socket, 7/16- by 1/4-inch square drive

ACTION **REMARKS** ITEM LOCATION

REMOVAL

2.

NOTE

Be sure the intervehicular cable to main harness cable connectors metal identification bands are installed before removing the intervehicular cable. If they are not, identify matching connectors using tags or tape.

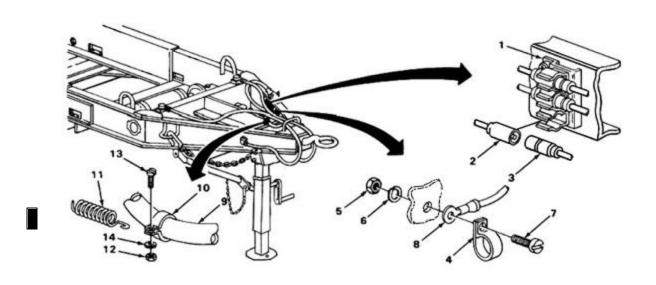
Using 11/32-inch socket and screwdriver, Nut (3), lockwasher 1. Clamp (1) to (4), and screw (5) remove. spring (2)

Nut (9), lockwasher Using 7/16-inch socket and screwdriver, Clamp (6), ground remove. lead (7), and frame (8) (10), and screw (11)

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INTERVEHICULAR CABLE - CONTINUED

LOCATION	ITEM	ACTION REMARKS
REMOVAL-CONTINUI	ED	
3. Clip assemblies (1)	Three mated con- nectors (2 and 3)	Remove and separate.
INSTALLATION		
Clip assemblies (1)	Three mated con- nectors (2 and 3)	 a. Match connector (2) identification to connector (3) and push connectors firmly together. b. Push mated connectors into clips (I).
5. Clamp (4)	Nut (5), Lockwasher (6), screw (7), and ground lead (8)	Using 7/16-inch socket and screwdriver, position ground lead (8) attach to chassis.
6. Intervehicular cable (9)	Clamp (10)	Place on intervehicular cable (9) and position on chassis.
7. Clamp (10)	Retaining spring (11), nut (12), screw (13), and lockwasher (14)	Using 11/32-inch socket and screwdriver, position retaining spring (11) on clamp (10) and attach to chassis.



TASK ENDS HERE

MAIN HARNESS

This task covers:

- a. Removal (page 4-25)
- b. Installation (page 4-26)

INITIAL SETUP

Tools Extension, 6-inch, 1/4-inch square drive Handle, reversible, 1/4-inch square drive Screwdriver, flat-tip Socket, 7/16- by 1/4-inch square drive

Materials/Parts Grommets

		ACTION
LOCATION	ITEM	REMARKS

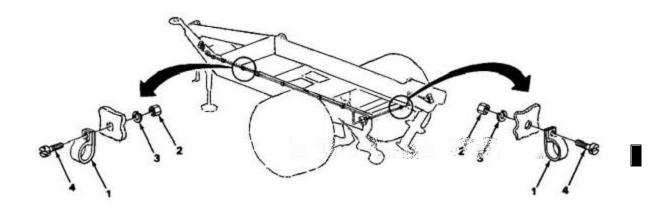
REMOVAL

NOTE

Be sure the main harness to intervehicular cable and taillight cable metal identification bands are installed before removing the main harness. If identification bands are not installed, identify matching connectors using tags or tape.

Seven nuts (2), 1. Seven clamps (1) seven lockwashers Using 7/16-inch socket and screwdriver, remove.

(3), and seven screws (4)

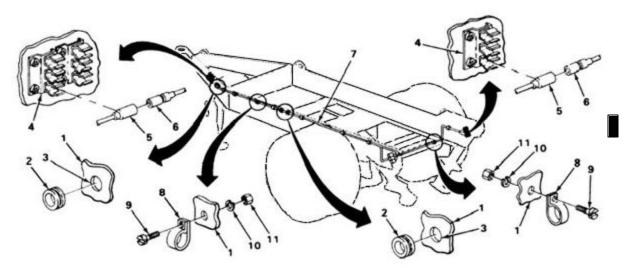


Super Single Style Shown

MAIN HARNESS - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
REMO	VAL – CONTINUED		
2.	Chassis (1)	Seven grommets (2)	Using screwdriver, push through holes (3).
3.	Clip assemblies (4)	Three mated connectors (5 and 6)	Pull out and separate.
4.	Chassis (1)	Main harness (7)	Pull through holes (3) in chassis frame and remove.
5.	Main harness (7)	Seven clamps (8)	Remove.
6.		Seven grommets (2)	Remove.
INSTA	LLATION		
7.	Chassis (1)	Main harness (7)	Install through holes (3).
8.	Main harness (7)	Three mated connectors (5 and 6)	Match and push firmly together.
9.	Clip assemblies (4)	Three mated connectors (5 and 6)	Snap into place.
10.	Main harness (7)	Seven grommets (2)	Install at proper locations.
11.	Chassis (1)	Seven grommets (2)	Using screwdriver, carefully work into holes (3).
12.	Main harness (7)	Seven clamps (8)	Install at the proper locations.
13.	Seven clamps (8)	Seven screws (9), seven lockwashers (10), and seven nuts(11)	Using 7/16-inch socket and screwdriver, attach to chassis (1).

MAIN HARNESS - CONTINUED



Super Single Style Shown

TASK ENDS HERE

WIRING HARNESS REPAIR

This task covers:

- a. Male connector repair (page 4-28)
- b. Female connector repair (page 4-28)
- c. Ring terminal replacement (page 4-29)
- d. Circuit band replacement (page 4-29)
- e. Receptacle repair (page 4-30)

INITIAL SETUP

Tools

Iron, soldering Pliers, cutting Pliers, slip-joint Screwdriver, flat-tip Strippers, hand wire Tool, crimping Tool, engraving Materials/Parts

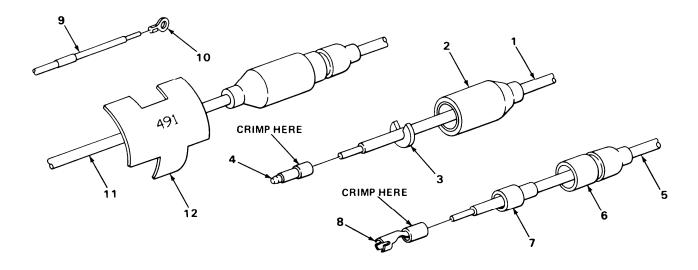
Terminals (as required) Shells (as required) New marker band Solder

WIRING HARNESS REPAIR - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
MALE	CONNECTOR REPAIR		
1.	Wire lead (1)	Shell (2)	Slide back.
2.		Washer (3)	Take off.
3.		Shell (2)	Slide off over contact (4). Throw away shell (2).
4.		Contact (4)	Using cutting pliers, cut off. Throw away contact (4).
5.		Wire lead (1)	Strip off insulation equal to the depth of the new contact (4).
6.	Wire lead (1)	Shell (2)	Slide onto wire lead (1).
7.		Contact (4)	Using crimping tool, slide onto wire lead (1) and crimp.
8.		Washer (3)	a. Slide onto lead (1).b. Slide shell (2) over washer (3) and contact (4).
FEMA	LE CONNECTOR REPAI	R	
9.	Wire lead (5)	Shell (6) and sleeve (7)	Slide back on wire lead (5).
10.		Contact (8)	Using cutting pliers, cut off. Throw away contact (8).
11.		Wire lead (5)	Strip off insulation equal to the depth of the new contact (8).
12.		Shell (6) and sleeve (7)	Slide onto wire lead (5).
13.		Contact (8), shell (6), and sleeve (7)	a. Using a crimping tool, slide contact (8) onto wire lead (5) and crimp.b. Slide shell (6) and sleeve (7) over contact (8).

WIRING HARNESS REPAIR - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
RING	TERMINAL REPLACEME	NT	
14.	Wire lead (9)	Terminal (10)	Using cutting pliers, cut off. Throw away terminal (10).
15.		Wire (9)	Strip off insulation equal to the depth of the new terminal (10).
16.	Wire lead (9)	Terminal (10)	a. Slide onto the end of wire (9).b. Using crimping tool, crimp.
CIRCU	IIT BAND MARKER REP	LACEMENT	
17.	Wire lead (11)	Marker band (12)	Using a flat-tip screwdriver, open tabs and remove. Note number on band and throw band (12) away.
18.		New marker band (12)	a. Using the engraving tool, engrave the number.b. Using crimping tool, put on wire lead (11) and bend tabs over.



WIRING HARNESS REPAIR - CONTINUED

	LOCA	TION	ITEM	ACTION REMARKS
RECE	PTACLE RE	PAIR		
19.	Connecto	or (1)	Nut (2)	Using pliers, take off.
20.			Grommet (3)	Take out.
21.	Grommet	(3)	Pins (4)	Pull out of grommet.
22.	Pins (4)		Wire leads (5)	Remove by melting solder with soldering iron.
				NOTE
		Onl	y unsolder the le	ads that need to be repaired.
23.	Pins (4)		Wire leads (5)	a. Heat the solder well in pin (4).b. While solder is hot, insert wire lead (5) into it.
24.	Grommet	(3)	Pin (4)	Insert pin (4) into the grommet (3). Follow chart to put pins in the proper location.
25.	Connecto	r (1)	Grommet (3)	Put grommet (3) into connector (1).
26.			Nut (2)	Using pliers, screw on.
	ERMINAL SIGNATION A B C	CIRCUIT NO. 24-484 22-461 24-483	TERMINAL DESIGNATION H J K	CIRCUIT NO. BLANK 22-460 BLANK
-	D	90	L	BLANK

BLANK

BLANK

TASK ENDS HERE

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Section VIII. AXLE

AXLE REMOVAL AND INSTALLATION

This task covers:

- a. Removal (page 4-31)
- b. Installation (page 4-34)

INITIAL SETUP

Tools

Handle, reversible, 3/8-inch square drive

Handle, reversible, 1/2-inch square drive

Hoist, 3000 pounds (1364 kg) min Socket, deep, 1 1/8- by 1/2-inch Socket, 9/16- by 3/8-inch square

Wrench, open-end, 7/16-inch Wrench, open-end, 9/16-inch

Personnel Required

Two

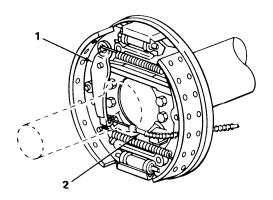
Equipment Condition

Hub and drum assemblies removed (page 4-76).

LOCATION ITEM REMARKS

REMOVAL

1. Brake lever (1) Handbrake cable (2) Unhook.



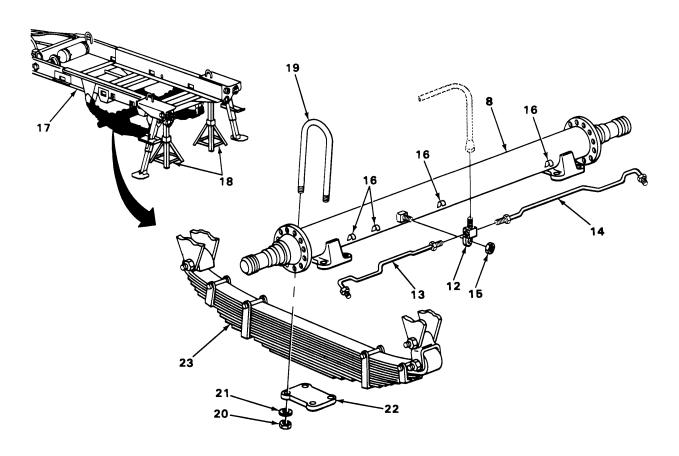
-			
	LOCATION	ITEM	ACTION REMARKS
REMO\	VAL - CONTINUED		
2.	Cable guide bracket (1)	Two nuts (2)	Using 9/16-inch socket, remove.
3.	Backing plate (3)	Handbrake cable (4)	Pull out.
4.	Connector (5)	Nut (6) and tube (7)	Using 7/16-inch wrench, disconnect.
5.	Backing plate (3) at axle (8)	Twelve nuts (9), twelve lockwashers (10), and twelve bolts (11)	Using 9/16-inch socket and 9/16-inch wrench, remove.
R	OTATED 180° 3	9 10	ROTATED 90° REAR VIEW 1 2
		NOTE	
	F	Repeat steps 1 thru 5 for th	ne opposite side.
6.	Tee (12)	Tube assemblies (13 and 14)	Using 7/16-inch wrench, disconnect.

	LOCATION	ITEM	ACTION REMARKS
7.	Tee (12)	Nut (15)	Using 9/16-inch wrench, remove.
8.	Four clamps (16)	Tube assemblies (13 and 14)	Pull from position.
9.	Chassis (17)	Two jack stands (18)	Using hoist, raise chassis (17) and position jack stands (18) at rear.
10.	Two U-bolts (19)	Four nuts (20), four lockwashers (21), and plate (22)	Using 1 1/8-inch socket, remove.
		NOTE	

NOTE

Repeat step 10 for opposite side.

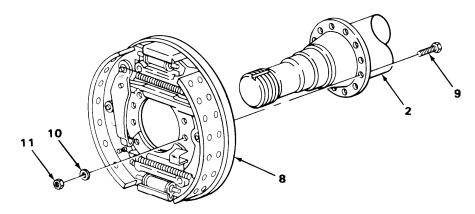
11. Springs (23) Axle (8) Remove with assistance.



	LOCATION	ITEM	ACTION REMARKS
INSTA	LLATION		
12.	Spring (1)	Axle (2)	Position on spring (1) with assistance.
13.	Axle bracket (3)	Two U-bolts (4)	Place U-bolts (4) over axle (2) and through bracket (3).
14.	U-bolts (4)	Plate (5)	Position on U-bolts (4).
15.		Four lockwashers (6) and four nuts (7)	Using 1 1/8-inch socket, install.
16.	Axle (2)	Backing plate (8)	Position on axle (2).
17.	Backing plate (8) at axle (2)	Twelve bolts (9), twelve lockwashers (10), and twelve nuts (11)	Using 9/16-inch socket and wrench, attach.

NOTE

Repeat steps 13 thru 17 for opposite side.



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	LOCATION	ITEM	ACTION REMARKS
18.	Axle stud (12)	Tee (13) and nut (14)	Using 9/16-inch wrench, install.
19.	Four clamps (15)	Tube assemblies (16 and 17)	Press into clamps (15).
20.	Tee (13) and connector (18)	Tube assemblies (16 and 17)	Using 7/16-inch wrench, connect.
	16 00 00 00 00 00 00 00 00 00 00 00 00 00	15 15 18 18 181	16 16 17 17 12
21.	Backing plate (19)	Handbrake cable (20)	Slide through backing plate (19).
22.		Cable guide bracket (21) and two nuts (22)	Using 9/16-inch socket, attach.
23.	Brake lever (23)	Cable (20)	Hook into position.
	23	19	21 22 20 ROTATED 90° REAR VIEW

INSTALLATION - CONTINUED

NOTE

Repeat steps 21 thru 23 for the opposite side.

NOTE

FOLLOW-ON MAINTENANCE:

- 1. Install hub and drum assemblies (page 4-79).
- 2. Bleed brakes (page 4-55).

TASK ENDS HERE

Section IX. BRAKE SYSTEM

	Page		Page
Airbrake Line Replacement	4-68	Hydraulic Brake Line	
Airbrake System	4-75	Replacement	4-50
Air Chamber	4-64	Hydraulic Master Cylinder	4-46
Air Coupling Quick Disconnects		Hydraulic System Bleeding	4-55
(Gladhands)	4-73	Hydraulic Wheel Cylinder	4-48
Air Filter Assembly	4-62	Intervehicular Hoses	
Air Reservoir		Relay Valve	4-57
Air Reservoir Draincock	4-59	Service Brake	
Handbrake Cable Assembly	4-38	Service Brake - Adjustment	4-46
Handbrake Lever Assembly		•	

HANDBRAKE LEVER ASSEMBLY

This task covers:

- a. Removal (page 4-37)
- b. Installation (page 4-37)

HANDBRAKE LEVER ASSEMBLY - CONTINUED

INITIAL SETUP

Tools Tools- Continued

Handle, reversible, 3/8-inch square

drive

Pliers, diagonal-cutting

Socket, 9/16- by 3/8-inch square

drive

Wrench, box, 9/16-inch

Materials/Parts

Cotter pin

	LOCATION	ITEM	ACTION REMARKS
REMO	VAL		
1.	Handbrake cable (1)	Cotter pin (2) and clevis pin (3)	Using pliers, remove. Discard cotter pin (2).
2.	Frame (4)	Three nuts (5), three spacers (6), three bolts (7), and hand brake lever (8)	Using 9/16-inch socket and box wrench, remove.
INSTA	LLATION		
3.	Frame (4)	Handbrake lever (8), three bolts (7), three spacers (6), and three nuts (5)	a. Position on frame with spacers (6) in place.b. Using wrench, install.
4.	Cable (1)	Clevis pin (3) and cotter pin (2)	Using pliers, install.
		4 5 6 8 7	3

TASK ENDS HERE

HANDBRAKE CABLE ASSEMBLY

This task covers:

- a. Removal (page 4-38)
- b. Installation (page 4-39)

INITIAL SETUP

Tools Materials/Parts

Handle, reversible, 3/8-inch square Cotter pin

drive

Pliers, diagonal-cutting Screwdriver, cross-tip

Socket, 1/2- by 3/8-inch square

drive

Wrench, open-end, 7/16-inch Wrench, open-end, 1/2-inch

Cotter pin

Equipment Condition

Hub and drum removed (page 4-76).

		ACTION
LOCATION	ITEM	REMARKS

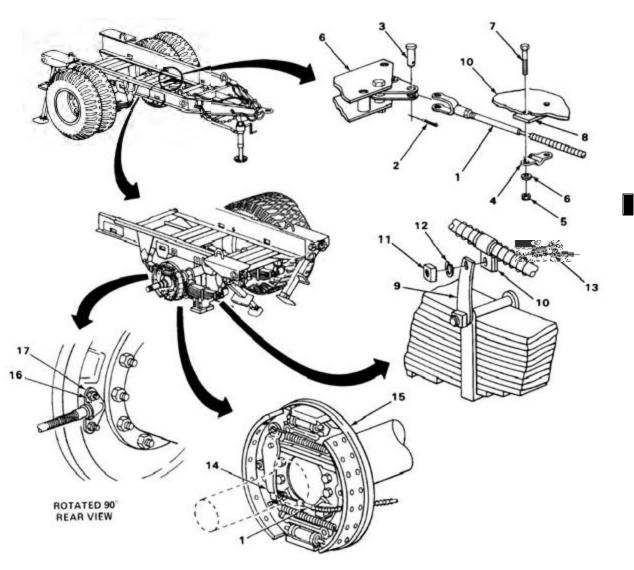
REMOVAL

NOTE

This procedure is typical for both sides.

1.	Handbrake cable (1)	Cotter pin (2) and clevis pin (3)	Using pliers, remove. Discard cotter pin (2).
2.	Retaining strap (4)	Two nuts (5), two lockwashers (6), and two capscrews (7)	Using 1/2-inch open-end and socket wrenches, remove. Retaining strap (4) and spacer (8) should fall off.
3.	Cable clamp mounting bracket (9)	Clamp (10), nut (11), washer (12), and screw (13)	Using 1/2-inch open-end wrench and screwdriver, remove.
4.	Internal lever (14)	Handbrake cable (1)	Remove.
5.	Backing plate (15)	Two nuts (16), clamp (17), and handbrake cable (1)	a. Using 7/16-inch wrench, loosen nuts (16).b. Pull out handbrake cable (1).

LOCATION	ITEM	ACTION REMARKS
INSTALLATION		
6. Backing plate (15)	Handbrake cable (1)	Push end through backing plate (15).
7. Brake lever (14)	Handbrake cable (1)	Pull back brake lever (14) and hook cable (1) in lever (14).
8. Backing plate (15)	Two nuts (16), clamp (17), and handbrake cable (1)	Using 7/16-inch wrench, secure.



HANDBRAKECABLE ASSEMBLY- CONTINUED

	LOCATION	ITEM	ACTION REMARKS
INSTA	ALLATION – CONTINUE	ED	
9.	Cable clamp mounting bracket (1)	Clamp (2), nut (3), lockwasher (4), and screw (5)	Using 1/2-inch open-end wrench and screwdriver, install.
10.	Frame (6) to hand- brake cable (7)	Spacer (8), retaining strap (9), two capscrews (10), two lockwashers (11), and two nuts (12)	Using 1/2-inch open-end and socket wrenches, install.
11.	Handbrake lever (13)	Adjusting knob (14)	a. Turn clockwise to tighten fully.b. Turn counterclockwise 12 turns.
12.	Handbrake cable (7)	Clevis (15) and locknut (16)	 a. Using 1/2-inch open-end wrench, loosen locknut (16). b. Adjust clevis (15) so that hole alines with hole in handbrake lever (13). c. Using 1/2-inch open-end wrench, tighten locknut (16).
13.		Clevis pin (17) and cotter pin (18)	Using pliers, install.
	3	5	17 15 16 6 8 18 7 9

12

HANDBRAKECABLE ASSEMBLY- CONTINUED

NOTE

FOLLOW-ON MAINTENANCE: Install hub and drum (page 4-79).

TASK ENDS HERE

SERVICE BRAKE

This task covers:

- a. Disassembly (page 4-41)
- b. Inspection (page 4-43)
- c. Assembly (page 4-44)

INITIAL SETUP

Tools Tools - Continued

Extension, 6- by 3/8-inch square Socket, 9/16- by 3/8-inch square drive Wrench, open-end, 9/16-inch

Handle, reversible, 3/8-inch square

drive Equipment Condition Pliers, brake-repair

Pliers, needle-nose Hub and drum removed (page 4-76). Socket, 7/16- by 3/8-inch square

LOCATION ITEM REMARKS

DISASSEMBLY

drive

WARNING

All parts of the service brake assembly will be coated with asbestos dust from the brake linings. A filter mask should be worn whenever working on any assembly components. Breathing asbestos dust may cause serious damage to health.

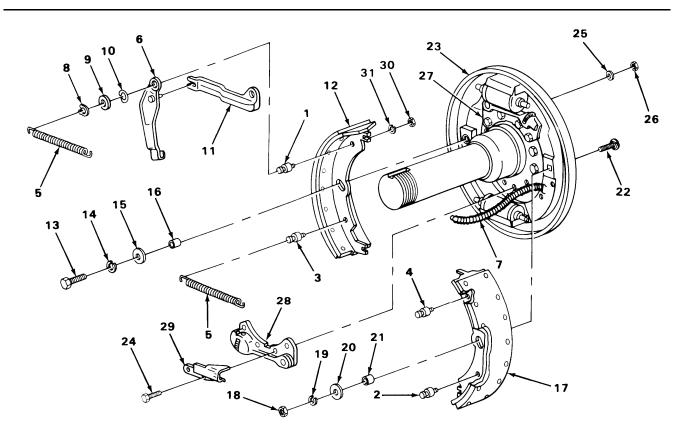
NOTE

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

SERVICE BRAKE - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
DISAS	SEMBLY – CONTINUE)	
1.	Pins (1, 2, 3, and 4)	Two springs (5)	Using brake-repair pliers, remove.
2.	Brake lever (6)	Handbrake cable (7)	Unhook.
3.	Pins (1 and 4)	Two clips (8), two flat washers (9), and two wave washers (10)	Using needle-nose pliers, remove.
4.	Pin (1)	Brake lever (6)	Slide off.
5.	Pin (4)	Strut (11)	Slide off.
6.	Brakeshoe (12)	Capscrew (13), lock- washer (14), flat washer (15), and sleeve (16)	Using 7/16-inch socket wrench, remove.
7.	Brakeshoe (17)	Nut (18), lockwasher (19), flat washer (20), sleeve (21), and bolt (22)	Using 7/16-inch socket wrench, remove.
8.	Backing plate (23)	Brakeshoes (12 and 17)	Remove.
9.		Four capscrews (24), four lockwashers (25), four nuts (26), and adjuster (27)	Using 9/16-inch socket and open-end wrenches, remove.
10.		Four capscrews (24), four lockwashers (25), four nuts (26), adjuster (28), and cable guide (29)	Using 9/16-inch socket and open-end wrenches, remove.
11.	Brakeshoes (12 and 17)	Pins (1, 2, 3, and 4), four nuts (30), and four lockwashers (31)	Using 9/16-inch socket wrench, remove.

LOCATION ITEM ACTION REMARKS



INSPECTION

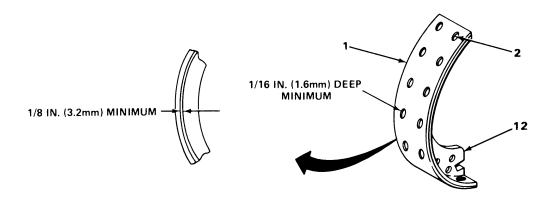
12. Brakeshoe (12)

Lining (1) and rivets (2)

Inspect linings (1) for cracks and a minimum thickness of 1/8 inch (3.2 mm).

Rivets (2) should beat least 1/16

inch (1.6 mm) below the surface of the lining (1).



SERVICE BRAKE - CONTINUED

		ACTION	
LOCATION	ITEM	ACTION REMARKS	

INSPECTION CRITERIA - CONTINUED

NOTE

Repeat step 12 for other brakeshoe.

		·	
ASSEM	IBLY		
13.	Brakeshoes (1 and 2)	Pins (3, 4, 5, and 6), four nuts (7), and four lockwashers (8)	Using 9/16-inch socket wrench, install.
14.	Backing plate (9)	Four capscrews (10), four lockwashers (11), four nuts (12), adjuster (13), and cable guide (14)	Using 9/16-inch socket and open-end wrenches, install.
15.		Four capscrews (10), four lockwashers (11), four nuts (12), and adjuster (15)	Using 9/16-inch socket and open-end wrenches, install.
16.		Brakeshoe (1)	Place in position.
17.	Brakeshoe (1)	Nut (16), lockwasher (17), flat washer (18), sleeve (19), and bolt (20)	Using 9/16-inch socket wrench, install.
18.	Backing plate (9)	Brakeshoe (2)	Place in position.
19.	Brakeshoe (2)	Capscrew (21), lock- washer (22), flat washer (23), and sleeve (24)	Using 9/16-inch socket wrench, install.
20.	Pin (3)	Strut (25)	Slide on.
21.	Pin (4)	Brake lever (26)	Slide on. Pin on brake lever should engage slot in strut (25).

SERVICE BRAKE - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
22.	Pins (3 and 4)	Two clips (27), two flat washers (28), and two wave washers (29)	Using pliers, install.
23.	Pins (3, 4,5, and 6)	Two springs (30)	Using brake-repair pliers, install.
24.	Brake lever (26)	Handbrake cable (31)	Hook into place.
30	27 ^{28 ²⁹}	25	15 12 20 3 19
		NOTE	

FOLLOW-ON MAINTENANCE: Install hub and drum (page 4-79).

TASK ENDS HERE

TM 9-2330-205-14&P

SERVICE BRAKE -ADJUSTMENT

This task covers:

Adjustment

INITIAL SETUP

Tools Equipment Condition

Wrench, open-end, 5/8-inch Adjust wheel bearings (page 4-80).

LOCATION ITEM ACTION REMARKS

NOTE

Procedure is given for right side wheel. For left side, turn adjusting stud clockwise.

1. Backing plate (1) Upper shoe adjusting a. Using wrench, turn

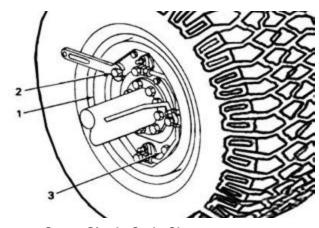
stud (2) counterclockwise until wheel locks.

b. Back off just enough to allow

wheel to turn freely.

2. Lower shoe adjusting Repeat step 1.

stud (3)



TASK ENDS HERE

Super Single Style Shown

HYDRAULIC MASTER CYLINDER

This task covers:

- a. Removal (page 4-47)
- b. Installation (page 4-47)

HYDRAULIC MASTER CYLINDER - CONTINUED

INITIAL SETUP

Tools

Handle, reversible, 3/8-inch square

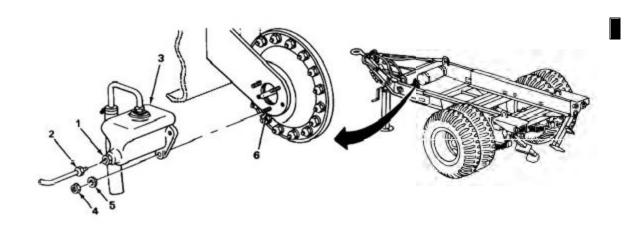
drive

Socket, 9/16- by 3/8-inch square drive

Tools - Continued

Wrench, open-end, 7/16-inch Wrench, open-end, 5/8-inch

LOCATION	ITEM	ACTION REMARKS
REMOVAL		
1. Fitting (1)	Brake line (2)	Using 5/8- and 7/16-inch open-end wrenches, disconnect.
Master cylinder (3)	Three nuts (4) and three lock-washers (5)	Using 9/16-inch socket wrench, remove and take off master cylinder (3).
INSTALLATION		
Air chamber studs (6)	Master cylinder (3)	Position on studs (6).
4.	Three nuts (4) and three lock-washers (5)	Using 9/16-inch socket wrench, install.
5. Fitting (1)	Brake line (2)	Using 5/8- and 7/16-inch open-end wrenches, install.



HYDRAULIC MASTER CYLINDER - CONTINUED

NOTE

FOLLOW-ON MAINTENANCE: Bleed brakes (page 4-55).

TASK ENDS HERE

HYDRAULIC WHEEL CYLINDER

This task covers:

- a. Removal (page 4-48)
- b. Installation (page 4-49)

INITIAL SETUP

Tools Materials/Parts

Handle, reversible, 3/8-inch square Container

drive Washer, copper

Socket, 1/2- by 3/8-inch square drive Equipment Condition

Socket, 11/16- by 3/8-inch square drive Brakeshoes removed (page 4-41).

ACTION

LOCATION ITEM REMARKS

REMOVAL

WARNING

All parts of the service brake assembly will be coated with asbestos dust from the brake linings. A filter mask should be worn whenever working on any assembly components. Breathing asbestos dust may cause serious damage to health.

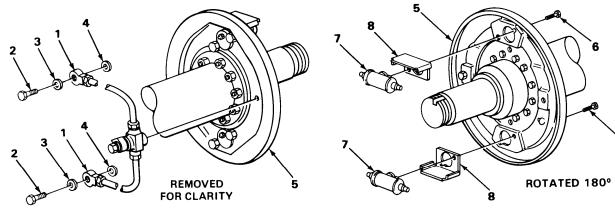
NOTE

Place a container under backing plate to catch brake fluid.

1.	Connector (1)	Bolt (2) and washers (3 and 4)	Using 11/16-inch socket wrench, remove. Discard washers (3 and 4).
2.	Backing plate (5)	Two bolts (6)	Using 1/2-inch socket wrench, remove.
3.		Wheel cylinder (7) and spark shield (8)	Remove and separate.

HYDRAULIC WHEEL CYLINDER - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
INSTA	LLATION		
4.	Backing plate (5)	Wheel cylinder (7) and spark shield (8)	Place spark shield (8) on wheel cylinder (7) and position on backing plate (5).
5.		Two bolts (6)	Using 1/2-inch socket wrench, install.
6.		Connector (1) and washer (4)	Position on backing plate (5).
7.	Connector (1)	Bolt (2) and washer (3)	Using 11/16-inch socket wrench, install.
			5 ~



NOTE

FOLLOW-ON MAINTENANCE:

- 1. Install brakeshoes (page 4-44).
- 2. Bleed brakes (page 4-55).

TASK ENDS HERE

HYDRAULIC BRAKE LINE REPLACEMENT

This task covers:

- a. Master cylinder to union (page 4-50)
- b. Union to axle flex hose (page 4-51)
- c. Axle flex hose (page 4-52)

- d. Axle tee to left service brake (page 4-52)
- e. Axle tee to right service brake (page 4-54)

INITIAL SETUP

Materials/Parts Tools

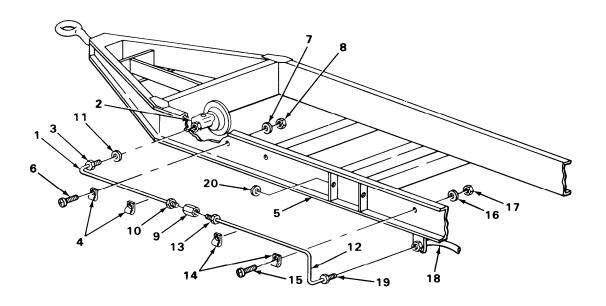
Screwdriver, cross-tip Wrench, open-end, 7/16-inch Wrench, open-end, 1/2-inch Wrench, open-end, 5/8-inch Wrench, open-end, 15/16-inch New lines (as required)

		ACTION
LOCATION	ITEM	REMARKS

MASTE	R CYLINDER TO UNION		
1.	Line (1) to master cylinder (2)	Fitting (3)	Using 5/8- and 7/16-inch open-end wrenches, remove.
2.	Clamps (4) to frame (5)	Two screws (6), two lockwashers (7), and two nuts (8)	Using 7/16-inch open-end wrench and cross-tip screwdriver, remove.
3.	Union (9) to line(1)	Fitting (10)	Using 7/16- and 1/2-inch open-end wrenches, remove.
4.	Frame (5)	Grommet (11)	Remove.
5.		Line (1)	Remove.
6.	Line (1)	Two clamps (4)	Remove. Discard line (1).
7.	New line	Two clamps (4)	Install.
8.	Frame (5)	Line (1)	Place in position.
9.		Grommet (11)	Install.
10.	Union (9) to	Fitting (10)	Using 7/16- and 1/2-inch open-end
	line (1)		wrenches, install.

HYDRAULIC BRAKE LINE REPLACEMENT - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
11.	Clamps (4) to frame (5)	Two screws (6), two lockwashers (7), and two nuts (8)	Using 7/16-inch open-end wrench and cross-tip screwdriver, install.
12.	Line (1) to master cylinder (2)	Fitting (3)	Using 7/16- and 5/8-inch open-end wrenches, install.
UNION TO AXLE FLEX HOSE			
13.	Line (12) to union (9)	Fitting (13)	Using 7/16- and 1/2-inch open-end wrenches, remove.
14.	Clamps (14) to frame (5)	Two screws (15), two lockwashers (16), and two nuts (17)	Using 7/16-inch open-end wrench and cross-tip screwdriver, remove.
15.	Line (12) to flex hose (18)	Fitting (19)	Using 7/16- and 5/8-inch open-end wrenches, remove.
16.	Frame (5)	Grommet (20)	Remove.
17.		Line (12)	Remove.

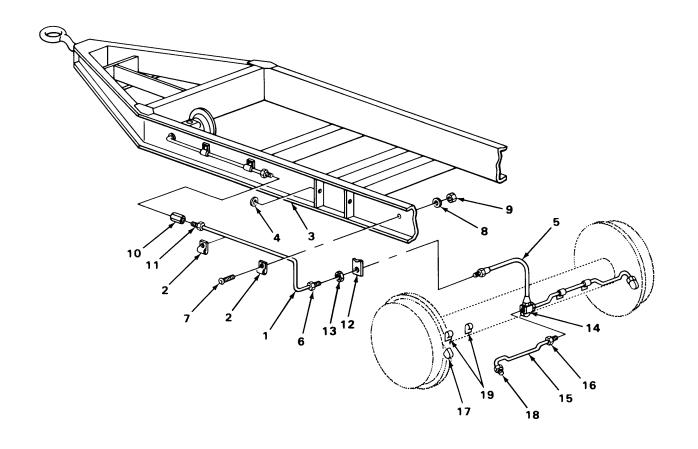


HYDRAULIC BRAKE LINE REPLACEMENT - CONTINUED

	LOCATION	ITEM	ACTION REMARKS		
UNION	TO AXLE FLEX HOSE	- CONTINUED			
18.	Line (1)	Two clamps (2)	Remove. Discard line (1).		
19.	New line (1)	Two clamps (2)	Install.		
20.	Frame (3)	Line (1)	Place in position.		
21.		Grommet (4)	Install.		
22.	Line (1) to flex hose (5)	Fitting (6)	Using 7/16- and 5/8-inch open-end wrenches, install.		
23.	Clamps (2) to frame (3)	Two screws (7), two lockwashers (8), and two nuts (9)	Using 7/16-inch open-end wrench and cross-tip screwdriver, install.		
24.	Line (1) to union (10)	Fitting (11)	Using 7/16- and 1/2-inch open-end wrenches, install.		
AXLE F	AXLE FLEX HOSE				
25.	Axle flex hose (5) to line (1)	Fitting (6)	Using 7/16- and 5/8-inch open-end wrenches, remove.		
26.	Axle flex hose (5) to bracket (12)	Nut (13)	Using 5/8- and 15/16-inch open-end wrenches, remove.		
27.	Axle tee (14)	Axle flex hose (5)	Using 5/8-inch open-end wrench, remove. Discard hose (5).		
28.		New axle flex hose (5)	Using 5/8-inch open-end wrench, install.		
29.	Axle flex hose (5) to bracket (12)	Nut (13)	Using 5/8- and 15/16-inch open-end wrenches, install.		
30.	Axle flex hose (5) to line (1)	Fitting (6)	Using 7/16- and 5/8-inch open-end wrenches, install.		
AXLE TEE TO LEFT SERVICE BRAKE					
31.	Axle tee (14) to line (15)	Fitting (16)	Using 7/16-inch open-end wrench, remove.		

HYDRAULIC BRAKE LINE REPLACEMENT- CONTINUED

	LOCATION	ITEM	ACTION REMARKS
32.	Line (15) to connector (17)	Fitting (18)	Using 7/16-inch open-end wrench, remove.
33.	Two clips (19)	Line (15)	Remove. Discard line (15).
34.	Two clips (19)	New line (15)	Place in position.
35.	Line (15) to connector (17)	Fitting (18)	Using 7/16-inch open-end wrench, install.
36.	Axle tee (14) to line (15)	Fitting (16)	Using 7/16-inch open-end wrench, install.



HYDRAULIC BRAKE LINE REPLACEMENT - CONTINUED

	LOCATION	ITEM	ACTION REMARKS	
AXLE	TEE TO RIGHT SERVIO	CE BRAKE		
37.	Axle tee (1) to line (2)	Fitting (3)	Using 7/16-inch open-end wrench, remove.	
38.	Connector (4) to line (2)	Fitting (5)	Using 7/16-inch open-end wrench, remove.	
39.	Two clips (6)	Line (2)	Remove. Discard line (2).	
40.		New line (2)	Install.	
41.	Connector (4) to line (2)	Fitting (5)	Using 7/16-inch open-end wrench, install.	
42.	Axle tee (1) to line (2)	Fitting (3)	Using 7/16-inch open-end wrench, install.	
fine (2)				
		N	ОТЕ	

FOLLOW-ON MAINTENANCE: Bleed brakes (page 4-55.)'

TASK ENDS HERE

HYDRAULIC SYSTEM BLEEDING

This task covers:

- a. Manual bleeding (page 4-56)
- b. Pressure bleeding (page 4-56)

INITIAL SETUP

Tools Materials/Parts - Continued

Pressure bleeder Container Wrench, open-end, 7/16-inch Plastic tubing

Materials/Parts Personnel Required

Brake fluid (item 2, appendix E)

Two

ACTION LOCATION ITEM REMARKS

NOTE

Use the manual bleeding procedure only if a pressure bleeder is not available.

The trailer must be connected to the towing vehicle to manually bleed brakes.

The following procedure is typical for both left and right wheels.

Always bleed the wheel cylinder farthest from the master cylinder first.

Always bleed the lower cylinder first on a dual-wheel cylinder brake.

Check fluid level of master cylinder frequently during manual bleeding procedure and replenish as required. Failure to keep filled will allow air to enter the hydraulic system.

Refer to manufacturer's instructions for proper operation and servicing of the pressure bleeder.

HYDRAULIC SYSTEM BLEEDING - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
MANU	AL BLEEDING		
1.	Right wheel at lower cylinder bleed fitting (1)	Plastic tubing (2)	Push tubing (2) onto bleed fitting (1). Tubing (2) should be long enough to reach ground when connected.
2.		Container (3)	Fill container half full with brake fluid and position by wheel being bled.
3.		Tubing (2)	Submerge free end in brake fluid.
		NOT	E
	Assist	ant should pump brake ped	dal slowly while brakes are bled.
	Make	sure free end of tubing sta	ys submerged in fluid.
4.		Bleed fitting (1)	 a. Using 7/16-inch wrench, open fitting (1) three-quarter turn. Fluid and air will be forced through tube. Continue until no more air bubbles appear in fluid. b. Close fitting (1) and remove tubing (2).
		NOT	_

NOTE

Steps 1 thru 4 should be repeated for upper wheel cylinder and left wheel.

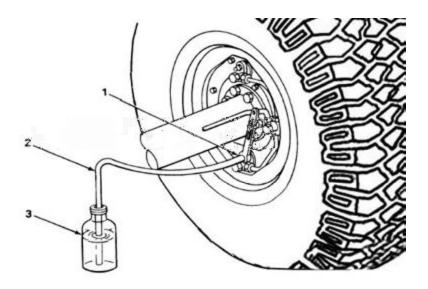
PRESSURE BLEEDING

NOTE

The pressure bleeder should be connected to the master cylinder according to manufacturer's instructions for proper operation.

After the pressure bleeder is hooked up properly, follow the manual bleeding procedure with the exception of pumping the brake pedal.

HYDRAULIC SYSTEM BLEEDING - CONTINUED



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NOTE

Master cylinder vent must be checked for proper operation. Replace any worn or damaged parts.

TASK ENDS HERE

RELAY VALVE

This task covers:

- a. Removal (page 4-58)
- b. Installation (page 4-58)

INITIAL SETUP

Tools

Wrench, open-end, 9/16-inch (two) Wrench, open-end, 5/8-inch Wrench, open-end, 7/8-inch

TM 9-2330-205-14&P

RELAY VALVE - CONTINUED

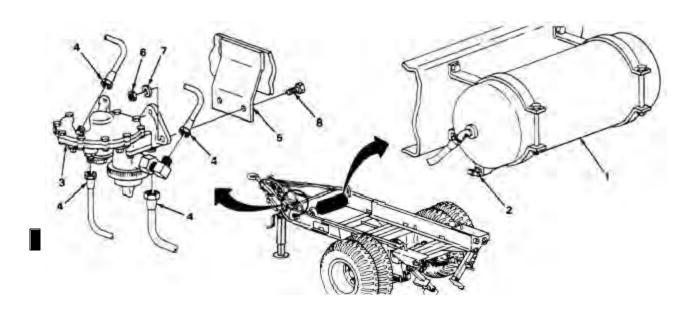
		ACTION
LOCATION	ITEM	REMARKS

REMOVAL

WARNING

Wear protective goggles to prevent eye injury when opening air reservoir draincock. Step away from airstream.

1. Air reservoir (1)	Draincock (2)	Open and relieve all pressure. Close when finished.
2. Relay valve (3)	Four lines (4)	Using 5/8- and 7/8-inch open-end wrenches, disconnect.
3. Mount (5)	Two nuts (6), two lockwashers (7), and two bolts (8)	Using two 9/16-inch open-end wrenches, remove. Take out relay valve (3).
INSTALLATION		
4. Mount (5)	Relay valve (3)	Position on mount (5).
5. Mount (5)	Two nuts (6), two lockwashers (7), and two bolts (8)	Using two 9/16-inch open-end wrenches, install.
6. Relay valve (3)	Four lines (4)	Using 5/8- and 7/8-inch open-end wrenches, connect.



RELAY VALVE - CONTINUED

NOTE

FOLLOW-ON MAINTENANCE: Test for leaks (page 4-75).

TASK ENDS HERE

AIR RESERVOIR DRAINCOCK

This task covers:

Replacement

INITIAL SETUP

Tools

Wrench, open-end, 9/16-inch

ACTION

LOCATION ITEM REMARKS

WARNING

Wear protective goggles to prevent eye injury when opening air reservoir draincock. Step away from airstream.

Air reservoir (1)

Draincock (2)

- a. Open draincock (2) and release all air pressure in reservoir (1).
- b. Using 9/16-inch open-end wrench, remove.
- c. Using 9/16-inch open-end wrench, install.

AIR RESERVOIR

This task covers:

- a. Removal (page 4-60)
- b. Installation (page 4-60)

INITIAL SETUP

Tools

Handle, reversible, 3/8-inch square

drive

Socket, 9/16- by 3/8-inch square

drive

Wrench, adjustable

Wrench, open-end, 9/16-inch Wrench, open-end, 13/16-inch

Materials/Parts

Sealing compound (item 8, appendix E)

Equipment Condition

Draincock removed (page 4-59).

	LOCATION	ITEM	ACTION REMARKS	
REMO\	/AL			
1.	Elbow (1)	Air line (2)	Using 13/16-inch wrench, disconnect.	
2.	Air reservoir (3)	Elbow (1)	Using adjustable wrench, remove.	
3.	Support clamps (4 and 5)	Two nuts (6), two lockwashers (7), and two bolts (8)	Using 9/16-inch socket and open-end wrenches, remove.	
4.	Support clamps (4)	Two nuts (9), two lockwashers (10), and two bolts (11)	Using 9/16-inch socket and open-end wrenches, remove.	
5.	Air reservoir (3)	Two support clamps (4)	Remove and lift air reservoir (3) from support clamps (5).	
INSTALLATION				
6.	Support clamps (5)	Air reservoir (3)	Position on support clamps (5).	
7.	Air reservoir (3)	Two Support clamps (4)	Position on air reservoir (3) and frame crossmember (12).	

AIR RESERVOIR - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
8.	Support clamps (4)	Two nuts (9), two lockwashers (10), and two bolts (11)	Using 9/16-inch socket and wrench, install on frame crossmember.
9.	Support clamps (4 and 5)	Two nuts (6), two lockwashers (7), and two bolts (8)	Using 9/16-inch socket and wrench, install.
10.	Air reservoir (3)	Elbow (1)	Coat threads with sealing compound and using adjustable wrench, install.
11.	Elbow (1)	Air line (2)	Using 13/16-inch wrench, install.
	9 10	5	4

NOTE

FOLLOW-ON MAINTENANCE:

- Install draincock (page 4-59).
 Test for leaks (page 4-75).

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AIR FILTER ASSEMBLY

This task covers:

- a. Repair (page 4-62)
- b. Removal (page 4-63)
- c. Installation (page 4-63)

INITIAL SETUP

Tools Tools – Continued

Handle, reversible, 1/2-inch square drive

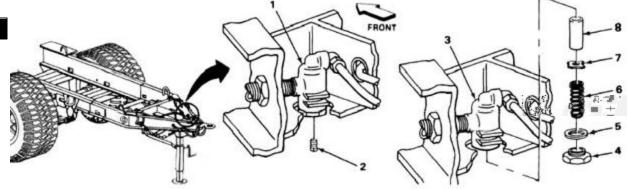
Wrench, open-end, 1 1/4-inch
Wrench, 1 1/8-by 1/2-inch square drive
Wrench, open-end, 1 3/8-inch
Wrench, adjustable

Wrench, open-end, 7/8-inch (two)

Materials/Parts

New filter (as required)

		rvov intor (do rodanod)
LOCATION	ITEM	ACTION REMARKS
REPAIR		
1. Air filter (1)	Plug (2)	a. Using adjustable wrench, remove to drain air filter (1).
		b. Using adjustable wrench, install.
2. Filter body (3)	Adapter (4) and gasket (5)	Using 1 1/8-inch socket, remove.
3.	Spring (6), washer (7)	a. Remove and clean or replace all parts.
	and element (8)	b. Insert in filter body (3),
4.	Adapter (4) and gasket (5)	Using 1 1/8-inch socket, install.
	A	FRONT 3



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AIR FILTER ASSEMBLY - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
REMO	VAL		
5.	Air filter (1)	Air line (2)	Using 7/8-inch open-end wrench, disconnect.
6.	Elbow (3)	Airhose (4)	Using 7/8-inch open-end wrench, remove.
7.	Fitting (5)	Nut (6)	Using 1 3/8-inch open-end wrench, loosen. Nut (6) will stay on fitting (5).
8.	Air filter (1)	Fitting (5)	Using 7/8- and 1 1/4-inch open-end wrenches, disconnect and remove air filter (1). Fitting (5) will stay in chassis.
INSTA	ALLATION		
9.	Air filter (1)	Fitting (5)	Using 1 1/4- and 7/8-inch open-end wrenches, connect.
10.	Fitting (5)	Nut (6)	Using 1 3/8-inch open-end wrench, tighten.
11.	Elbow (3)	Airhose (4)	Using 7/8-inch open-end wrench, install.
12.	Air filter (1)	Airline (2)	Using 7/8-inch open-end wrench, install.
	3	5	
		N	OTE

FOLLOW-ON MAINTENANCE: Test for leaks (page 4-75).

AIR CHAMBER

This task covers:

- a. Removal (page 4-64)
- b. Repair (page 4-65)

- c. Installation (page 4-66)
- d. Test (page 4-66)

INITIAL SETUP

Tools Materials/Parts

Rod, 1/4- by 6-inch Wrench, open-end, 1/2-inch (two) Wrench, open-end, 9/16-inch

Diaphragm
1/2-inch (two)

Wrench, open-end, 5/8-inch

Personnel Required

Two

LOCATION ITEM REMARKS

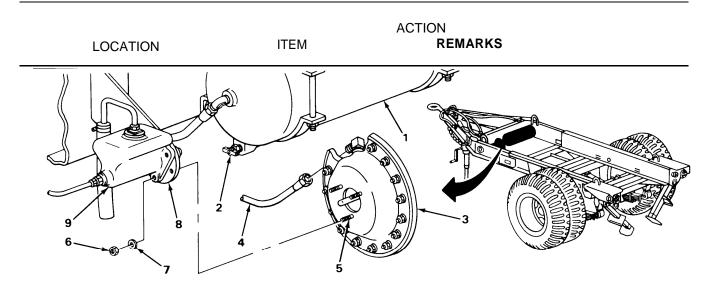
REMOVAL

WARNING

Wear protective goggles to prevent eye injury when opening air reservoir draincock. Move away from airstream.

1.	Air reservoir (1)	Draincock (2)	Open and release all air pressure.
2.	Air chamber (3)	Line (4)	Using 5/8-inch wrench, disconnect.
3.	Studs (5)	Nuts (6) and washers (7)	Using 9/16-inch wrench, remove.
4.	Mounting bracket (8)	Master cylinder (9) and air chamber (3)	Remove air chamber (3). Hold master cylinder (9) in place.
5.		Master cylinder (9)	Support with 1/4-inch rod through mounting bracket (8) and mounting hole in cylinder flange.

AIR CHAMBER - CONTINUED

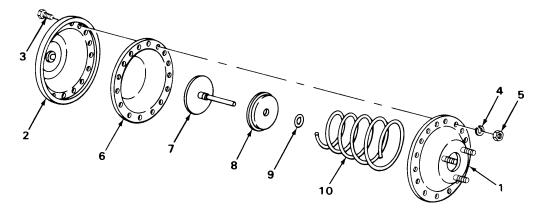


REPAIR

WARNING

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

6.	Air chamber halves (1 and 2)	Sixteen bolts (3), washers (4), and nuts (5)	a. Using two 1/2-inch wrenches, remove.b. Separate chamber halves (1 and 2).
7.		Diaphragm (6), rod (7), retainer (8), packing (9), and spring (10)	 a. Remove. Discard diaphragm (6). b. Assemble using new diaphragm (6).
8.		Sixteen bolts (3), washers (4), and nuts (5)	Using two 1/2-inch wrenches, install.



AIR CHAMBER - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
INSTAL	LATION		
9.	Mounting bracket (1)	Master cylinder (2)	Remove 1/4-inch rod and hold master cylinder (2) in place.
10.		Master cylinder (2) and air chamber (3)	Position air chamber studs (4) through bracket (1) and master cylinder mounting holes.
11.	Studs (4)	Three nuts (5) and three lockwashers (6)	Using 9/16-inch wrench, install.
12.	Air chamber (3)	Line (7)	Using 5/8-inch wrench, install.
13.	Air reservoir (8)	Draincock (9)	Close.
	5		8
TECT			

TEST

CAUTION

Excessive push rod travel will result in damage to rubber cup in master cylinder. Insufficient travel will result in ineffective brakes.

NOTE

Push rod travel should be a minimum of 1/2 inch (12.7 millimeters) and a maximum of 7/8 inch (22.2 millimeters) for proper operation.

Trailer must be connected to towing vehicle and air system pressurized to perform test.

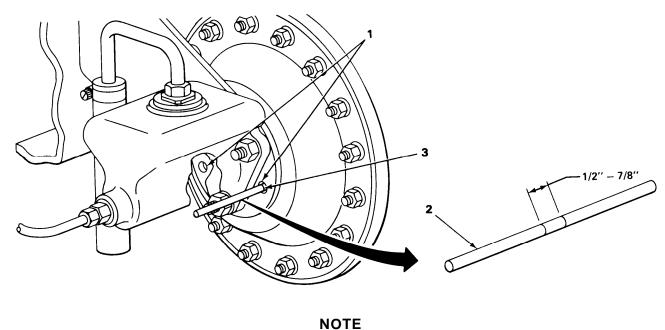
AIR CHAMBER - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
14.	Inspection hole (1)	1/4-inch rod (2)	 a. With brakes released, insert through inspection hole (1) until rod (2) stops. b. Mark rod (2) at surface of mounting bracket (3). c. Have assistant apply brakes in towing vehicle. Rod (2) will be pushed out. d. Mark rod (2) at surface of mounting bracket (3) again. e. Measure distance between marks. Distance measured will indicate push rod travel.

NOTE

If measured distance is not between 1/2 and 7/8 inch (12.7 and 22.2 millimeters), brakes must be adjusted (page 4-46).

Repeat step 14 after brake adjustment.



FOLLOW-ON MAINTENANCE: Test for leaks (page 4-75).

AIRBRAKE LINE REPLACEMENT

This task covers:

- a. Left air filter to relay valve (page 4-68)
- b. Right air filter to relay valve (page 4-69)

- c. Relay valve to reservoir (page 4-70)
- d. Relay valve to air chamber (page 4-70)

INITIAL SETUP

Tools Materials/Parts

Screwdriver, cross-tip Wrench, 7/16-inch, open-end Wrench, 5/8-inch, open-end Wrench, 13/16-inch, open-end Wrench, 7/8-inch, open-end New lines (as required)

Equipment Condition

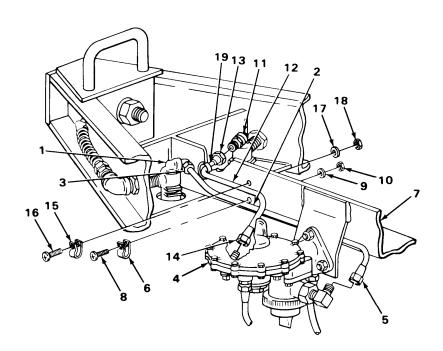
ACTION

Air reservoir draincock opened.

	LOCATION	ITEM	REMARKS
LEFT	AIR FILTER TO RELAY	′ VALVE	
1.	Air filter (1) to line (2)	Fitting (3)	Using 5/8-inch wrench, remove.
2.	Relay valve (4) to line (2)	Fitting (5)	Using 5/8-inch wrench, remove.
3.	Clamp (6) to frame (7)	Screw (8), lock- washer (9), and nut (10)	Using cross-tip screwdriver and 7/16-inch open-end wrench, remove.
4.	Frame (7)	Line (2)	Remove.
5.	Line (2)	Clamp (6)	Remove. Discard line (2).
6.	New line (2)	Clamp (6)	Install.
7.	Frame (7)	Line (2)	Install.
8.	Clamp (6) to frame (7)	Screw (8), lock- washer (9), and nut (10)	Using cross-tip screwdriver and 7/16-inch open-end wrench, install.
9.	Relay valve (4) to line (2)	Fitting (5)	Using 5/8-inch open-end wrench, install.

AIRBRAKE LINE REPLACEMENT - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
10.	Air filter (1) to line (2)	Fitting (3)	Using 5/8-inch open-end wrench, install.
RIGHT	AIR FILTER TO RELAY	/ALVE	
11.	Air filter (11) to line (12)	Fitting (13)	Using 5/8-inch open-end wrench, remove.
12.	Relay valve (4) to line (12)	Fitting (14)	Using 5/8-inch open-end wrench, remove.
13.	Frame (7) to clamp (15)	Screw (16), lock- washer (17), and nut (18)	Using cross-tip screwdriver and 7/16-inch open-end wrench, remove.
14.	Frame (7)	Grommet (19)	Remove.
15.		Line (12)	Remove.
16.	Line (12)	Clamp (15)	Remove. Discard line (12).



AIRBRAKE LINE REPLACEMENT - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
RIGHT	AIR FILTER TO RELAY	VALVE - CONTINUED	
17.	New line (1)	Clamp (2)	Install.
18.	Frame (3)	Line (1) and grommet (4)	Install.
19.	Clamp (2) to frame (3)	Screw (5), lock- washer (6), and nut (7)	Using cross-tip screwdriver and 7/16-inch open-end wrench, install.
20.	Relay valve (8) to line (1)	Fitting (9)	Using 5/8-inch open-end wrench, install.
21.	Air filter (10) to line (1)	Fitting (11)	Using 5/8-inch open-end wrench, install.
RELAY	Y VALVE TO RESERVOIR		
22.	Relay valve (8) to line (12)	Fitting (13)	Using 7/8-inch open-end wrench, remove.
23.	Reservoir (14) to line (12)	Fitting (15)	Using 13/16-inch open-end wrench, remove.
24.	Frame (3)	Line (12)	Remove. Discard line (12).
25.		New line (12)	Place in position.
26.	Reservoir (14) to line (12)	Fitting (15)	Using 13/16-inch open-end wrench, install.
27.	Relay valve (8) to line (12)	Fitting (13)	Using 7/8-inch open-end wrench, install.
RELAY	Y VALVE TO AIR CHAMB	ER	
28.	Relay valve (8) to air line (16)	Fitting (17)	Using 5/8-inch open-end wrench, remove.
29.	Air chamber (18) to line (16)	Fitting (19)	Using 5/8-inch open-end wrench, remove.
30.	Frame (3)	Line (16)	Remove. Discard line (16).

AIRBRAKE LINE REPLACEMENT - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
31.	Frame (3)	New line (16)	Place in position.
32.	Air chamber (18) to line (16)	Fitting (19)	Using 5/8-inch open-end wrench, install.
33.	Relay valve (8) to line (16)	Fitting (17)	Using 5/8-inch open-end wrench, install.
The state of the s	5 2 8 17 16	11 10 1 3 6 7	19 14 15 18
		NOTE	

FOLLOW-ON MAINTENANCE: Test for leaks (page 4-75).

TASK ENDS HERE

INTERVEHICULAR HOSES

This task covers:

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

INTERVEHICULAR HOSES - CONTINUED

INITIAL SETUP

Tools

Wrench, 7/8-inch, open-end

Air coupling quick disconnect removed (page 4-73).

Equipment Condition

LOCATION ITEM REMARKS

REMOVAL

NOTE

This is a typical procedure for the service or the emergency intervehicular hose.

1. Elbow (1)

Hose (2)

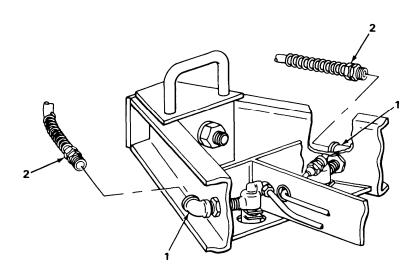
Using 7/8- inch open-end wrench, remove.

INSTALLATION

2. Elbow (1)

Hose (2)

Using 7/8- inch open-end wrench, install.



NOTE

FOLLOW-ON-MAINTENANCE:

- 1. Install air coupling quick disconnect (page 4-73).
- 2. Test for leaks (page 4-75).

AIR COUPLING QUICK DISCONNECTS (GLADHANDS)

This task covers:

- a. Removal (page 4-73)
- b. Installation (page 4-74)

INITIAL SETUP

Tools

Wrench, open-end, 15/16-inch Wrench, open-end, 1 1/16-inch Wrench, open-end, 1 1/8-inch

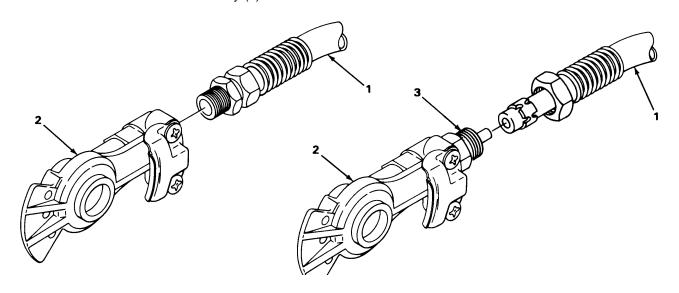
		ACTION
LOCATION	ITEM	REMARKS

REMOVAL

NOTE

Do steps 1 and 4 when removing an unserviceable gladhand. Do steps 2 and 3 when removing gladhands from an unserviceable hose.

Service or emergency airhose (1)
 Gladhand (2)
 Remove using 15/16- and 1 1/8-inch wrenches.
 Using 15/16- and 1 1/16-inch wrenches, remove from hose (1).



AIR COUPLING QUICK DISCONNECTS (GLADHANDS) - CONTINUED

LOCATION	ITEM	ACTION REMARKS
INSTALLATION		
3. Service or emergency hose (1)	Gladhand (2), body (3), and sleeve (4)	Using 15/16- and 1 1/16-inch wrenches, install on hose (3).
4.	Gladhand (2)	Using 15/16- and 1 1/8-inch wrenches, install.
	2	
	NOTE	<u> </u>

FOLLOW-ON MAINTENANCE: Test for leaks (page 4-75).

AIRBRAKE SYSTEM

This task covers:

Leak testing

INITIAL SETUP

Materials/Parts

Personnel Required

Soap solution (item 9, appendix E)

Two

Brush

LOCATION ITEM REMARKS

NOTE

The trailer must be coupled to a towing vehicle with its brake system pressurized.

The procedure shown is typical of any area of the system to be tested.

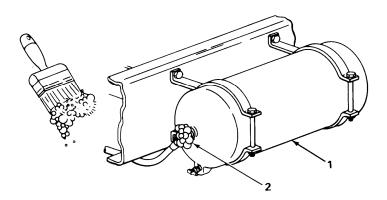
Have an assistant hold the brakes applied while testing to be sure that the area being tested will be pressurized.

Sample component (1)

Fitting (2)

Using brush, apply soap solution and water.

Leaks will be detected by bubbling of the solution.



Section X. WHEEL, TIRE, HUB, AND DRUM

	Page		Page
Hub and Brakedrum	4-76	Wheel and Tire	4-81
HUB AND BRAKEDRUM			
This task covers:			
a. Removal (page 4-76)b. Disassembly (page 4-78)c. Assembly (page 4-78)		d. Installation (page 4-79) e. Wheel bearing adjustment (page 4-80)	
INITIAL SETUP			
Tools		Materials/Parts - Continued	
Drift, brass Hammer, ball-peen Handle, reversible, 3/4-inch square drive Jack, hydraulic Jack stand Screwdriver, flat-tip Socket, wheel-bearing adjustment Wrench, box-end, 9/16-inch Materials/Parts New bearing cups		New hub grease seal New hub studs (as required) Woodblocks Equipment Condition Wheels and tires removed (page 3-5). References TM 9-214 – Care and Maintenance of Arfriction Bearings	nti-
New hub gasket			
LOCATION	ITEM	ACTION REMARKS	
REMOVAL			
1. Axle (1) Jack st	and (2)	a. Place jack stand (2) under axle (1)b. Lower and remove hydraulic jack	
	WΔ	RNING	

WARNING

All parts of the service brake assembly will be coated with asbestos dust from the brake linings. A filter mask should be worn whenever working on any assembly components. Breathing asbestos dust may cause serious damage to health.

HUB AND BRAKEDRUM -CONTINUED

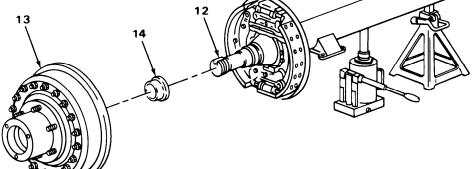
	LOCATION	ITEM	ACTION REMARKS
2.	Hubcap (4)	Three screws (5) and three lockwashers (6)	Using flat-tip screwdriver, remove.
3.	Hub and drum (7)	Hubcap (4) and gasket (8)	Remove. Discard gasket (8).
4.	Spindle (9)	Locknut (10) and lockwasher (11)	Using bearing adjustment socket, remove.
5.		Adjusting nut (12)	Using bearing adjustment socket, remove.
6.	Frame rail (13)	Handbrake lever (14)	Release.
7.	Spindle (9)	Hub and drum (7)	Rock back and forth to loosen bearing cone (15).
8.		Bearing cone (15)	Remove.
9.		Hub and drum (7) and spacer (16)	a. Remove hub and drum (7).b. Using hammer and drift, remove spacer (16).
	14	13 13 10 11 12	7

HUB AND BRAKEDRUM -CONTINUED

	LOCATION	ITEM	ACTION REMARKS
REMO	OVAL- CONTINUED		
10.	Hub (1)	Bearing cone (2) and seal (3)	Using hammer and drift, remove. Discard seal (3).
DISAS	SSEMBLY		
11.	Hub (1)	Six wheel studs (4)	Using hammer and drift, remove.
12.	Drum (5)	Hub (1)	Remove.
		NOTE	
	Drum and drum adapter support maintenance.	plate will remain assembled	d if drum is to be repaired at direct
13.	Drum adapter plate (6)	Sixteen nuts (7) and sixteen lockwashers (8)	Using 9/16-inch box-end wrench, remove.
14.		Sixteen serrated bolts (9)	Using hammer and drift, remove.
15.	Drum (5)	Drum adapter plate (6)	Remove.
16.	Hub (1)	Bearing cups (10 and 11)	Using hammer and drift, remove. Discard cups (10 and 11).
ASSE	MBLY		
17.	Drum (5)	Drum adapter plate (6)	a. Support adapter plate (6) on two woodblocks.b. Position drum (5) on drum adapter plate (6) and aline mounting holes.
18.		Sixteen serrated bolts (9)	Using drift, install. Ensure bolts are fully seated.
19.	Drum adapter plate (6)	Sixteen nuts (7) and sixteen lockwashers (8)	Using 9/16-inch box-end wrench, install.
20.		Hub (1)	a. Support hub (1) on two woodblocks.b. Position drum adapter plate (6) with drum (5) on hub (1) and aline mounting holes.

HUB AND BRAKEDRUM - CONTINUED

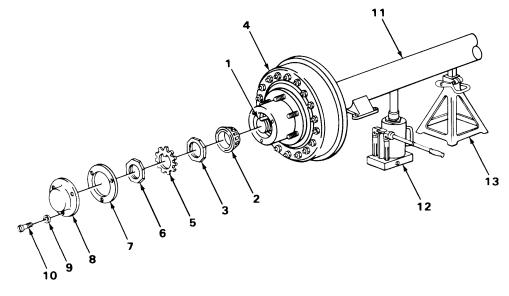
	LOCATION	ITEM	ACTION REMARKS
21.		Six wheel studs (4)	Using hammer and drift, install.
22.	Hub (1)	Bearing cups (10 and 11)	Using hammer and drift, install.
INSTA	LLATION		
23.	Hub (1)	Bearing cone (2)	a. Clean and repack in accordance with TM 9-214.b. Install.
24.		New seal (3)	Using hammer and drift, install.
		7	9
25.	Spindle (12)	Hub and drum (13) and spacer (14)	a. Using hammer and drift, install spacer (14).b. Place hub and drum (13) in position.
	13	12	



HUB AND BRAKEDRUM - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
INSTAI	LLATION – CONTINUE	ED	
26.	Spindle (1)	Bearing cone (2)	a. Clean and repack in accordance with TM 9-214.b. Install.
27.		Adjusting nut (3)	Using bearing adjustment socket, install. Do not tighten.
WHEEL	BEARING ADJUSTMI	ENT	
28.		Adjusting nut (3)	 a. Using bearing adjusting socket, tighten until hub and drum (4) just binds. b. Back off approximately one-eighth turn. Wheels should not rock and should turn freely.
		NOTE	:
	R	epeat step 28 if rocking m	novement is excessive.
29.		Lockwasher (5) and locking nut (6)	Using bearing adjusting socket, install and tighten nut (6).
30.	Hub and drum (4)	Gasket (7), hubcap (8), three lock- washers (9), and three screws (10)	Using flat-tip screwdriver, install.
31.	Axle (11)	Jack (12) and jack stand (13)	a. Raise jack (12) so axle (11) clears jack stand (13).b. Remove jack stand (13).

HUB AND BRAKEDRUM -CONTINUED



NOTE

FOLLOW-ON MAINTENANCE:

- 1. Adjust service brake (page 4-46).
- 2. Install wheel and tire (page 3-6).

TASK ENDS HERE

WHEEL AND TIRE

Wheel and tire maintenance for the M200A1 generator trailer is done in accordance with TM 9-2610-200-24 - Organizational Care, Maintenance, and Repair of Pneumatic Tires, Inner Tubes, and Radial Tires.

Section XI. FRAME AND TOWING ATTACHMENT

	Page		Page
Generator Mounting Support Assembly Landing Leg		Safety Chain Step Jack Lunette	4-86

LANDING LEG

This task covers:

- a. Removal (page 4-82)
- b. Installation (page 4-83)

INITIAL SETUP

Tools Tools - Continued

Handle, reversible, 3/4-inch square Wrenc drive Wrenc Jack stands (two)

Pliers, diagonal-cutting
Socket, 7/8- by 3/4-inch square
drive

Socket, 1 1/2- by 3/4-inch square

drive

Wrench, open-end, 3/4-inch Wrench, open-end, 1 5/16-inch

Materials/Parts

Cotter pin

ACTION LOCATION ITEM REMARKS

REMOVAL

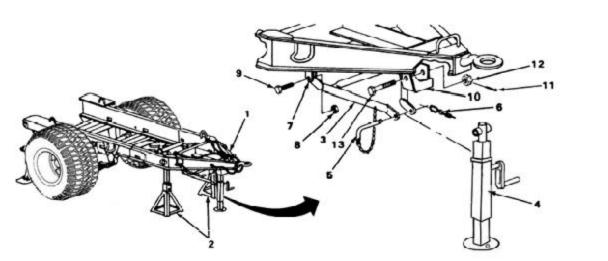
WARNING

Do not begin any removal procedures until the trailer chassis is supported firmly, or the landing gear could collapse, causing injury to personnel.

1.	Trailer chassis (1)	Two jack stands (2)	Support chassis (1) with jack stands (2).
2.	Back brace (3) at landing leg (4)	Lockpin (5) and clip (6)	Remove. Back brace (3) will separate from leg (4).
3.	Back brace (3) at mounting brackets (7)	Two nuts (8) and two bolts (9)	Using 7/8-inch socket and 3/4-inch wrench, remove.

LANDING LEG - CONTINUED

LOCATION	ITEM	ACTION REMARKS
4. Mounting bracket (10)	Cotter pin (11), nut (12), and bolt (13)	Using pliers, 1 5/16-inch wrench, and 1 1/2-inch socket, remove. Discard cotter pin (11).
5.	Landing leg (4)	Remove.
INSTALLATION		
6. Mounting bracket (10)	Landing leg (4)	Position in bracket (10).
7.	Bolt (13), nut (12), and cotter pin (11)	Using 1 5/16-inch wrench, 1 1/2-inch socket, and pliers, install.
8. Mounting brackets (7)	Back brace (3)	Position brace (3) in brackets (7).
9.	Two nuts (8) and two bolts (9)	Using 7/8-inch socket and 3/4-inch wrench, install.
10. Landing leg (4)	Back brace (3)	Swing brace (3) up into position.
11. Back brace (3) at landing leg (4)	Lockpin (5) and clip (6)	Install.
12. Chassis (1)	Two jack stands (2)	Extend landing leg (4) and remove jack stands (2).



Super Single Style Shown TASK ENDS HERE

LUNETTE

This task covers:

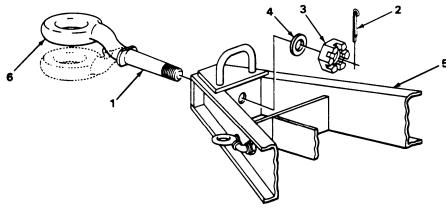
- a. Removal (page 4-84)
- b. installation (page 4-84)

INITIAL SETUP

Tools Materials/Parts

Pliers, diagonal-cutting Wrench, open-end, 1 1/2-inch Cotter pin

	LOCATION	ITEM	ACTION REMARKS
REMO'	VAL		
1.	Lunette shank (1)	Cotter pin (2), nut (3), and fiat washer (4)	 a. Using pliers, remove cotter pin (2). Discard cotter pin (2). b. Using 1 1/2-inch open-end wrench, remove nut (3) and washer (4).
2.	Chassis (5)	Lunette (6)	Slide out of chassis (5).
INSTA	LLATION		
3.	Chassis (5)	Lunette (6)	Slide into hole in chassis (5). Position in high or low position as required.
4.	Lunette shank (1)	Flat washer (4), nut (3), and cotter pin (2)	a. Install washer (4) and nut (3) and torque nut to 400-450 lb- ft.b. Install cotter pin (2).



DELETED

SAFETY CHAIN

This task covers:

- a. Removal (page 4-86)
- b. Installation (page 4-86)

INITIAL SETUP

Tools

Handle, reversible, 1/2-inch square

Socket, 1- by 1/2-inch square drive

	LOCATION	ITEM	ACTIO	ON REMARKS
REMOV	/AL			
1.	Frame (1)	Nut (2) and eyebolt (3)	Using	socket, remove.
INSTAL	LATION			
2.	Frame (1)	Eyebolt (3) and nut (2)	Using	socket, install.
T401/ F	NDO LIEDE			

TASK ENDS HERE

STEP JACK

This task covers:

- a. Removal (page 4-87)
- b. Installation (page 4-87)

STEP JACK - CONTINUED

INITIAL SETUP

Tools Materials/Parts

Pliers, diagonal-cutting Wrench, open-end, 7/8-inch

Cotter pin

	LOCATION	ITEM	ACTION REMARKS
REMC	OVAL		
1.	Bracket (1)	Lockpin (2) and clip (3)	Remove.
2.		Cotter pin (4), nut (5), and bolt (6)	Using pliers and wrench, remove.
INSTA	ALLATION		
3.	Bracket (1)	Step jack (7)	Position in bracket (1).
4.		Bolt (6), nut (5), and cotter pin (4)	Using wrench and pliers, install.
5.		Lockpin (2) and clip (3)	Install.
		3	

Section XII. SPRING

	Page			Page
Spring	4-88	Spring	Shackle	4-91

SPRING

This task covers:

- a. Removal (page 4-88)
- b. Installation (page 4-89)

INITIAL SETUP

Tools - Continued Tools

Floor jack (2)

Floor jack, hydraulic Handle, reversible, 1/2-inch square drive Handle, reversible, 3/4-inch square drive Jack stands, two large Jack stands, two small Mallet, plastic

Socket, 1 1/8- by 1/2-inch square drive Socket, 1 1/4- by 3/4-inch square drive

Raise trailer until tires clear ground.

Personnel Required

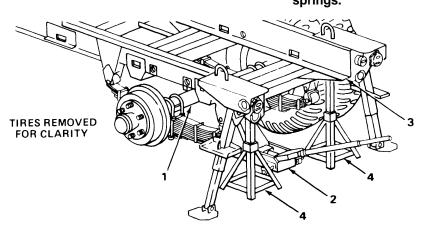
Two

		ACTION	
LOCATION	ITEM	REMARKS	

REMOVAL

1.

Axle (1) Two jack stands (4) Position stands (4) to support trailer. 2. Chassis (3) 3. Floor jack (2) Lower axle (1) so tires are on ground. Axle (1) Jack stands (4) will hold weight off springs.



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SPRING - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
4.	U-bolts (5)	Four nuts (6), four washers (7), and plate (8)	Using 1 1/8-inch socket, remove.
5.	Mounting bracket (9)	Nut (10) and bolt (11)	Using 1 1/4-inch socket, remove. Support spring with jack stand.
6.	Shackle (12)	Nut (10) and bolt (11)	Using plastic mallet, drive bolts (11) out.
7.		Spring (13)	Remove with assistance.
INSTA	LLATION		
8.	Axle (1)	Spring (13)	Position spring (13) on ground under axle (1), with assistance.
9.	Shackle (12)	Spring sleeve (14)	Aline spring sleeve (14) with shackle (12).
10.		Bolt (11)	Insert, alining serrations.
11.	Mounting bracket (9)	Spring (13)	Aline spring bushing bracket.
12.		Bolt (11)	Insert.
13.	Two bolts (11)	Two nuts (10)	Using 1 1/4-inch socket, install.
	10 14	8 7 6	5 10 13 14

SPRING - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
INSTA	LLATION - CONTINUE	:D	
14.	Axle mount pad (1)	Two U-bol ts (2)	Slip U-bolts (2) over axle and through holes in mount pad (1).
15.	U-bolts (2)	Plate (3)	Position plate on U-bolts (2).
16.		Four washers (4) and four nuts (5)	Using 1 1/8-inch socket, install.
		2 3 4 5	
17.	Axle (6)	Floor jack (7)	Raise trailer.
18.	Chassis (8)	Two jack stands (9)	Remove stands (9).
19.	Axle (6)	Floor jack (7)	Lower trailer and remove floor jack (7).
	TIRES RI FOR CL	EMOVED	8

SPRING SHACKLE

This task covers:

- a. Removal (page 4-91)
- b. Installation (page 4-92)

INITIAL SETUP

Tools

Handle, reversible, 3/4-inch square drive Floor jack, hydraulic Jack stand Tools - Continued

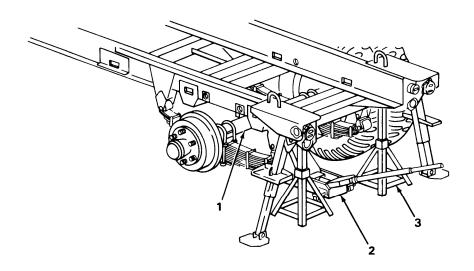
Mallet, plastic Socket, 1 1/4- by 3/4-inch

		ACTION
LOCATION	ITEM	REMARKS

REMOVAL

1. Rear crossmember (1) Floor jack (2) and jack stand (3)

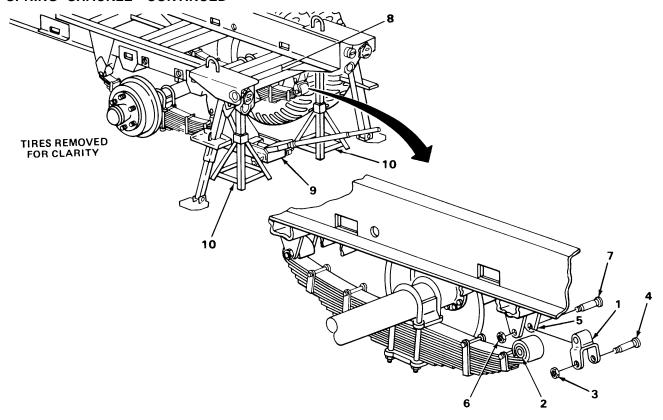
- a. Using jack (2), raise trailer enough to remove weight from wheel.
- b. Support with jack stand (3).



SPRING SHACKLE - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
REMO	VAL - CONTINUED		
2.	Shackle (1) to spring (2)	Nut (3)	Using 1 1/4-inch socket wrench, remove.
3.		Bolt (4)	Using plastic mallet, tap out.
4.	Shackle (1) to bracket (5)	Nut (6)	Using 1 1/4-inch socket wrench, remove.
5.		Bolt (7)	Using plastic mallet, tap out.
6.	Spring (2) to bracket (5)	Shackle (1)	Remove.
INSTA	LLATION		
7.	Spring (2) to bracket (5)	Shackle (1)	Place in position.
8.	Shackle (1) to bracket (5)	Bolt (7)	Using plastic mallet, tap into place.
9.		Nut (6)	Using 1 1/4-inch socket wrench, install.
10.	Shackle (1) to spring (2)	Bolt (4)	Using plastic mallet, tap into place.
11.		Nut (3)	Using 1 1/4-inch socket wrench, install.
12.	Rear cross- member (8)	Floor jack (9) and jack stand (10)	a. Using jack (9) raise trailer enough to clear jack stand (10).b. Remove jack stand (10) and lower jack (9).

SPRING SHACKLE- CONTINUED



TASK ENDS HERE

Section XIII. BODY ACCESSORY

	Page		Page
Data Plates	4-94	Reflectors	4-95

DATA PLATES

This task covers:

- a. Removal (page 4-94)
- b. Installation (page 4-94)

INITIAL SETUP

Tools

Screwdriver, cross-tip Wrench, open-end, 7/16-inch

	LOCATION	ITEM	ACTION REMARKS	
REMO	VAL			
1.	Frame (1) at data plate (2)	Four screws (3), four lockwashers (4), and four nuts (5)	Using wrench and screwdriver, remove.	
INSTA	LLATION			
2.	Frame (1)	Data plate (2)	Position on frame (1).	
3.		Four screws (3), four lockwashers (4), and four nuts (5)	Using wrench and screwdriver, install.	
		5 4		

REFLECTORS

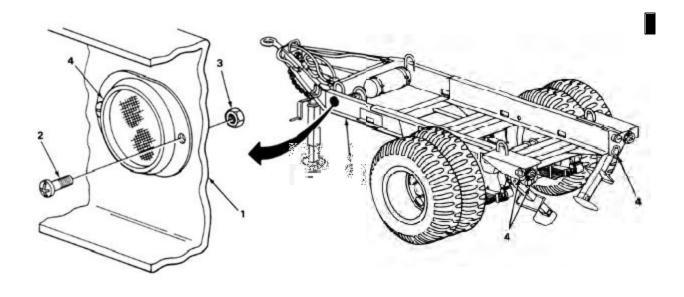
This task covers:

- a. Removal (page 4-95)
- b. Installation (page 4-95)

INITIAL SETUP

Tools Screwdriver, cross-tip Wrench, open-end, 7/16-inch

LOCATION	ITEM	ACTION REMARKS	
REMOVAL			
1. Frame (1)	Two screws (2), two nuts (3), and reflector (4)	Using screwdriver and wrench, remove.	
INSTALLATION			
2. Frame (1)	Reflector (4), two screws (2), and two nuts (3)	Using screwdriver and wrench, install.	



Section XIV. PREPARATION FOR STORAGE AND SHIPMENT

	Page		Page
nspection During Storage		Preservation	4-96

PRESERVATION

Unit commanders are responsible for the proper care of the trailers.

When a trailer is received and has already been processed for domestic shipment, as indicated on DD Form 1397, the trailer does not have to be reprocessed for storage unless corrosion and deterioration are found during the inspection upon receipt. List on an SF 364 all discrepancies found due to poor preservation, packaging, packing, marking, handling, loading, storage, or excessive preservation. Repairs that cannot be handled by the receiving unit must have tags listing the needed repairs attached. A report of these conditions will be submitted by the unit commander for action by an ordnance maintenance unit.

Trailers to be prepared for administrative storage must be given a technical inspection and processed as described in TM 740-90-1 (Administrative Storage of Equipment). Trailers may be placed in administrative storage for 90 days.

The preferred type of storage for trailers is in a warehouse, or under cover in open sheds, whenever possible.

NOTE

Use TM 55-200, TM 55-601, and TM 743-200-1 as references for processing, storage, and shipment of material with the instructions contained in this section.

INSPECTION DURING STORAGE

Periodically perform a visual inspection on all trailers placed in storage. Remove any corrosion and clean, paint, and treat the area with the prescribed preservative.

NOTE

Touchup painting will be in accordance with TM 43-0139, Painting Instructions for Field Use.

Trailers must be reprocessed in accordance with TM 740-90-1 whenever the administrative storage period expires, if they have not been issued for service or shipped to another unit.

Trailers that have been removed from storage for shipment do not have to be reprocessed if they will reach their destination within the administrative storage period. Reprocess the trailer in accordance with TM 740-90-1 if inspection reveals any corrosion, or if anticipated in-transit weather conditions make it necessary.

INSPECTION DURING STORAGE - CONTINUED

Deprocess trailers that are to be placed in service in accordance with TM 740-90-1. Inspect and service the trailer in accordance with section III, Service Upon Receipt (page 4-5).

Repair or replace all items tagged on inspection prior to preservation.

PACKING, SHIPMENT, AND STORAGE

NOTE

The height and width of the trailer packaging must not exceed the limits of the loading table in TM 55-200 when preparing the trailer for shipment by railroad. Consult the local transportation officer, whenever possible, for limitations of the railroad lines to be used, so that delays, dangerous conditions, and damage to equipment are avoided.

The dual tire style requires an increase in tire pressure to 45 psi (310 kPa) for rail shipment, unless the weather is expected to be hotter than 90°F (32°C) during shipment.

Protect the trailer against corrosion by coating all unpainted surfaces with grease or oil. Lubricants listed in the lubrication chart (page 4-3) may be used for this purpose. Check the trailer for corrosion frequently during shipment and recoat with oil or grease if necessary.

Prepare the trailer for shipment by processing it in accordance with TM 740-90-1.

CHAPTER 5

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

OVERVIEW

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

Each maintenance section provides instructions for direct support and general support maintenance personnel. The following initial setup information applies to all procedures.

Resources required are not listed unless they apply to the procedure.

Personnel are listed only if the task requires more than one technician. If Personnel Required is not listed, one technician can do the task.

	Pag	је
Section I.	Repair Parts, Special Tools; Test, Measurement, and	
	Diagnostic Equipment (TMDE); and Support Equipment 5-1	
Section II.	Maintenance Procedures 5-1	

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

	Page		Page
Common Tools and Equipment	. 5-1	Special Tools, TMDE, and	
Repair Parts	5-1	Support Equipment	5-1

COMMON TOOLS AND EQUIPMENT

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

SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

There are no special tools, TMDE, or support equipment required to maintain the trailer.

REPAIR PARTS

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

Section II. MAINTENANCE PROCEDURES

		Page		Page
Brakeshoe	Repair	5-2	Landing Leg Repair	5-7
Brakedrum	Repair	5-3	Step Jack Repair	5-5
Frame Ren	air .	5-5	Tire Repair	5-5

BRAKESHOE REPAIR

This task covers:

- a. Disassembly (page 5-2)
- b. Cleaning (page 5-2)

- c. Inspection (page 5-2)
- d. Assembly (page 5-3)

INITIAL SETUP

Tools

Equipment Condition

Reliner, brake and clutch

Brakeshoes removed (page 4-41).

Materials/Parts

Linings, 4 each Rivets, 56 each

ACTION

LOCATION ITEM

REMARKS

WARNING

All parts of the service brake will be coated with asbestos dust from the brake linings. A filter mask should be worn whenever working on any assembly components. Breathing asbestos dust can cause serious damage to health.

DISASSEMBLY

1.	Brakeshoes (1)	Lining (2) and	Using brake reliner, remove.
	,	14 rivets (3)	Discard rivets (3) and linings (2).

CLEANING

2. Shoe (4) Clean in accordance with cleaning instruc-

tions (page 4-14).

INSPECTION

3. Shoe (4) Inspect for cracks and distortion.

4. Shoe (4) Fourteen holes (5) Inspect for excessive wear.

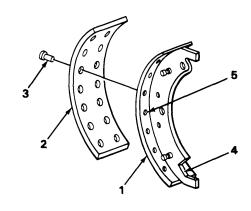
Discard bad shoes (4).

5-2

BRAKESHOE REPAIR - CONTINUED

ACTION **REMARKS ITEM** LOCATION **ASSEMBLY** Lining (2) and Assemble using brake reliner. 5. Shoe (4) Refer to manufacturer's operating

14 rivets (3)



TASK ENDS HERE

BRAKEDRUM REPAIR

This task covers:

- a. Cleaning (page 5-4)
- b. Inspection (page 5-4)
- c. Repair (page 5-4)

INITIAL SETUP

Tools

Inside micrometer with extension

Equipment Condition

Wheel hub and brakedrum removed (page 4-76).

instructions.

Wheel hub and brakedrum disassembled (page 4-78) as required.

BRAKEDRUM REPAIR - CONTINUED

		ACTION	
LOCATION	ITEM	REMARKS	

WARNING

All parts of the service brake assembly will be coated with asbestos dust from the brake linings. A filter mask should be worn whenever working on any assembly components. Breathing asbestos dust can cause serious damage to health.

CLEANING

1. Brakedrum (1) Clean in accordance with cleaning instructions (page 4-14).

INSPECTION

2. Braking surface (2)

- a. Inspect for warpage, cracks, checking, or scoring.
 - Discard drum if cracked or scoring is deeper than 1/16 inch (1.59 mini. meters).
- b. Check diameter of drum at four locations 45 degrees apart using inside micrometer.

Discard drum if out-of-round requiring removal of more than 1/16 inch (1.59 millimeters) of metal.

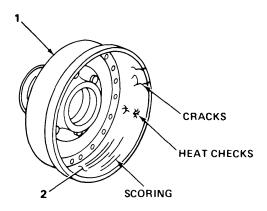
REPAIR

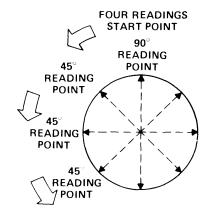
3. Braking surface (2)

Reface braking surface using brake lathe.

Remove a maximum of 0.01 inch

(0.254 millimeter) per cut. Discard if inside diameter exceeds 15.23 inches (38.68 centimeters).





TASK ENDS HERE TA223366

FRAME REPAIR

Repair of the frame will be accomplished in accordance with TB 9-2300-247-40, Tactical Wheeled Vehicles: Repair of Frames.

TIRE REPAIR

Repair of tires will be accomplished in accordance with TM 9-2610-200-24, Organizational Care, Maintenance, and Repair of Pneumatic Tires Inner Tubes, and Radial Tires.

STEP JACK REPAIR

This task covers:

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

INITIAL SETUP

Tools

Handle, reversible, 3/8-inch square drive Pliers, diagonal-cutting Screwdriver, flat-tip Socket, 5/8- by 3/8-inch square drive Tools - Continued

Wrench, open-end, 5/8-inch

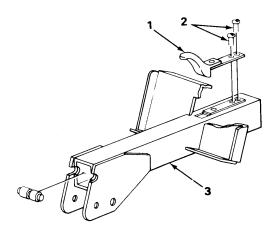
Equipment Condition

Step jack fully retracted and removed.

		ACTION	
LOCATION	ITEM	REMARKS	

DISASSEMBLY

- 1. Latch (1) Two screws (2) Using screwdriver, remove.
- 2. Step (3) Latch (1) Remove.



STEP JACK REPAIR - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
DISAS	SEMBLY – CONTINUE	ED	
3.	Retaining pin (1)	Tension spring (2)	Using screwdriver, remove.
4.	Step (3)	Pin (1)	Remove.
5.	Pad (4)	Nut (5), bolt (6), and cotter pin (7)	Using pliers, wrench, and socket, remove.
6.	Step (3)	Tension spring (2)	Remove.
ASSE	MBLY		
7.	Tube (8)	Tension spring (2)	Insert hooked end into bottom (9).
8.	Tube (8) and tension spring (2)	Pad (4)	Aline.
9.	Pad (4)	Nut (5), bolt (6), and cotter pin (7)	Using socket, wrench, and pliers, install.
10.	Step (3)	Tube (8)	Insert and aline holes (10) with latch hole(11).
11.		Pin (1)	Position in notch (12).
12.	Pin (1)	Spring (2)	Hook over pin (1).
13.	Step (3)	Latch (13)	Position over mounting holes.
14.	Latch (13)	Two screws (14)	Using screwdriver, install.
1:		14 10	8

TASK ENDS HERE

LANDING LEG REPAIR

This task covers:

- a. Disassembly (page 5-7)
- b. Assembly (page 5-9)

INITIAL SETUP

Tools

Hammer, ball-peen

Handle, reversible, 3/8-inch square

drive Punch

Socket, 1/2- by 3/8-inch square

drive

Wrench, open-end, 15/16-inch

Tools - Continued

Wrench, pipe

Wrench, socket-head, 5/16-inch

Equipment Condition

Landing leg removed (page 4-82).

LOCATION ITEM REMARKS

NOTE

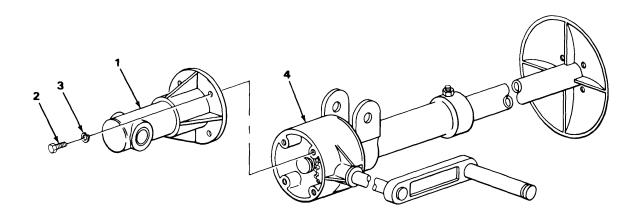
Fully extend landing leg by turning crank handle counterclockwise.

DISASSEMBLY

1. Tube upper (1) Four capscrews (2) Using 1/2-inch socket wrench, remove. and four lock-

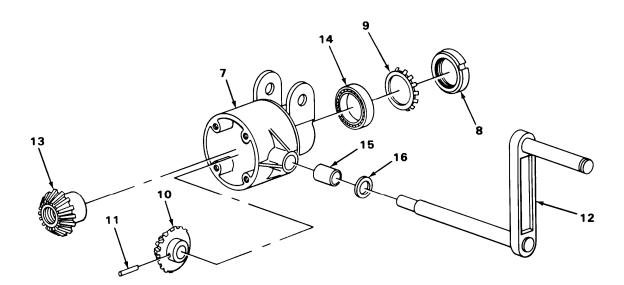
washers (3)

2. Housing (4) Tube upper (1) Remove.

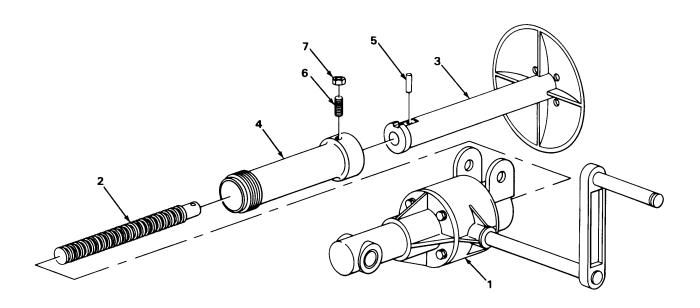


	LOCATION	ITEM	ACTION REMARKS
DISAS	SEMBLY - CONTINUE	D	
3.	Tube lower (1)	Nut (2) and setscrew (3)	Using 15/16-inch open-end wrench and 5/16-inch socket-head wrench, remove.
4.		Shoe assembly (4)	Remove by turning counterclockwise.
5.	Shoe (4)	Pin (5)	Using hammer and punch, remove.
6.		Screw shaft (6)	Remove.
7.	Housing (7)	Tube lower (1)	Using pipe wrench, remove,
		3	
8.	Housing (7)	Locknut (8) and lockwasher (9)	Using hammer and punch, remove.
9.	Bevel gear (10)	Pin(n)	Using hammer and punch, remove,
10.	Housing (7)	Crank (12) and bevel gear (10)	Remove.
11.		Bevel gear (13) and bearing (14)	Remove.

	LOCATION	ITEM	ACTION REMARKS
12.	Crank (12)	Spacer (15) and washer (16)	Remove.
ASSEM	BLY		
13.	Housing (7)	Bevel gear (13) and bearing (14)	Install.
14.	Crank (12)	Spacer (15) and washer (16)	Install.
15.	Housing (7)	Crank (12) and bevel gear (10)	Install and aline pinhole.
16.	Bevel gear (10)	Pin (11)	Using hammer and punch, install.
17.	Housing (7)	Lockwasher (8) and locknut (9)	Using hammer and punch, install while holding crank handle (12).



	LOCATION	ITEM	ACTION REMARKS
ASSEN	MBLY - CONTINUED		
18.	Housing (1)	Screw shaft (2)	Install.
19.	Shoe (3)	Tube lower (4)	Slide over shoe (3) with threaded end up.
20.	Screw shaft (2)	Shoe (3)	Position by alining pinhole.
21.	Shoe (3)	Pin (5)	Using punch, install.
22.	Housing (1)	Tube lower (4)	Using pipe wrench, install.
23.	Tube lower (4)	Shoe (3)	Aline slot in shoe assembly (3) with set- screw hole in tube.
24.		Setscrew (6) and nut (7)	 a. Install setscrew (6). Setscrew (6) should not interfere with extend and retract operation. b. Install nut locking setscrew (6) in position.



	LOCATION	ITEM	ACTION REMARKS
25.	Housing (1)	Cavity (8)	Lubricate in accordance with lubrication chart (page 4-3).
26.		Tube upper (9)	Position by aiming mounting holes.
27.	Tube upper (9)	Four capscrews (10) and four lock- washers (11)	Using 1/2-inch socket wrench, install.
10	9	8	

TASK ENDS HERE

APPENDIX A

REFERENCES

A-1. SCOPE.

This appendix lists all forms, field manuals, technics manuals, and miscellaneous publications referenced in this manual.

A-2. PUBLICATION INDEXES.

The following indexes should be consulted frequently for latest changes or revisions and for new publications relating to material covered in this manual.

1	
Index of Army Motion Pictures and Related Audio Visual Aids Consolidated Index of Army Publications and Blank Forms	DA PAM 108-1 DA PAM 310-1
A-3. FORMS.	
Recommended Changes to DA Publications	
Equipment Inspection and Maintenance Worksheet	
Maintenance Request	
Equipment Daily or Monthly Log	
Equipment Transfer Report	
Uncorrected Fault Record	
Equipment Maintenance Log (Consolidated)	
Preventive Maintenance Schedule and Record	
Accident Identification Card	
Processing and Reprocessing Report for Shipment, Storage, and Issue	22 Tollil 010
of Vehicles and Spare Engines	DD Form 1397
Vehicle Accident Report	
Report of Discrepancy	SF 364
Quality Deficiency Report	SF 368
A-4. FIELD MANUALS.	
Camouflage, Basic Principles, and Field Camouflage	FM 5-20
Explosives and Demolitions	FM 5-25
Operation and Maintenance of Ordnance Material in Cold Weather	
(0° to -65°F)	
Manual for the Wheeled Vehicle Driver	
Cold Weather Operations	FM 31-70
A-5. TECHNICAL MANUALS.	
Inspection, Care, and Maintenance of Antifriction Bearings	TM 9-214
Welding Theory and Application, Operators Manual	
Deepwater Fording of Ordnance Material	
Ordnance Materiel and Related Materials Including Chemicals	TM 9-247

Organizational Care, Maintenance, and Repair of Pneumatic Tires,

TM 9-2330-205-14&P

A-5. TECHNICAL MANUALS - CONTINUED.

The Army Maintenance Management System (TAMMS)	
Painting Instructions for Field Use	TM 43-0139
Railway Operating and Safety Rules	TM 55-200
Railcar Loading Procedures	TM 55-601
Administrative Storage of Equipment	TM 740-90-1
Railway Operating Rules	TM 743-200-1
Procedures for Destruction of Tank-Automotive Equipment to	
Prevent Enemy Use (US Army Tank-Automotive Command)	TM 750-244-6
A-6. TECHNICAL BULLETINS.	
Tactical Wheeled Vehicles: Repair of Frames	TR 0-2300-247-40
	10 3-2300-241-40
•	10 9-2300-247-40
Standards for Oversea Shipment or Domestic Issue of Combat,	
Standards for Oversea Shipment or Domestic Issue of Combat, Tactical, and Special Purpose Vehicles	TB 9-2300-281-35
Standards for Oversea Shipment or Domestic Issue of Combat,	TB 9-2300-281-35
Standards for Oversea Shipment or Domestic Issue of Combat, Tactical, and Special Purpose Vehicles	TB 9-2300-281-35

APPENDIX B MAINTENANCE ALLOCATION CHART (MAC) Section 1: INTRODUCTION

B-1. General

This introduction provides a general explanation of all maintenance and repair functions authorized at the two maintenance levels under the Two-Level Maintenance System concept.

The MAC (immediately following the introduction) 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 shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Field — includes two subcolumns, Unit (C (operator/crew) and O (unit) maintenance) and Direct Support (F) maintenance

Sustainment — includes two subcolumns, general support (H) and depot (D)

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced for the MAC).

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

B-2. Maintenance Functions

Maintenance functions are limited to and defined as follows:

- 1. 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). This includes scheduled inspection and gagings and evaluation of cannon tubes.
- 2. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
- Service. Operations required periodically to keep an item in proper operating condition, e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging or recoil mechanisms.
- 4. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.
- 5. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

APPENDIX B MAINTENANCE ALLOCATION CHART (MAC) Section 1: INTRODUCTION (Cont.)

- 6. Calibrate. To determine and cause corrections to be made or be adjusted on instruments of 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.
- 7. 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.
- 8. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance, and Recoverability (SMR) code.
- Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, 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.

NOTE

The following definitions are applicable to the "repair" maintenance function services: Inspect, test, service, adjust, align, calibrate, and/or replace.

- Fault location/troubleshooting. The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system of Unit Under Test (UUT).
- Disassembly/assembly. The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its least component, that is assigned an SMR code of the level of maintenance under consideration (i.e., identified as maintenance significant).
- Actions. Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.
- 10. 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. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to "like new" condition.
- 11. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a "like new" condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

APPENDIX B MAINTENANCE ALLOCATION CHART (MAC) Section 1: INTRODUCTION (Cont.)

Explanation of Columns in the MAC

Column (1) Group Number. Column (1) lists FGC numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).

Column (2) Component/Assembly. Column (2) contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

Column (3) Maintenance Function. Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions, refer to "Maintenance Functions" outlined above).

Column (4) Maintenance Level. Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as manhours in whole hours or decimals) in the appropriate subcolumn. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are to be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance functions are as follows:

Field:

- C Operator or crew maintenance
- O Unit maintenance
- F Direction support maintenance

Sustainment:

- H General support maintenance
- D Depot maintenance

NOTE

The "L" maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by a work time figure in the "H" column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

Column (5) Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), and special tools, special TMDE and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

Column (6) Remarks Code. When applicable, this column contains a letter code, in alphabetical order, which is keyed to the remarks table entries.

APPENDIX B MAINTENANCE ALLOCATION CHART (MAC) Section 1: INTRODUCTION (Cont.)

Explanation of Columns in the Tools and Test Equipment Requirements

Column (1) Tool or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

Column (3) Nomenclature. Name or identification of the tool or test equipment.

Column (4) National Stock Number (NSN). The NSN of the tool or test equipment.

Column (5) Tool Number. The manufacturer's part number, model number, or type number.

Explanation of Columns in the Remarks

Column (1) Remarks Code. The code recorded in column (6) of the MAC.

Column (2) Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC.

Table 1. MAC for CHASSIS, TRAILER: GENERATOR, 2 1/2-TON, 2-WHEEL, M200A1

	(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION		(4) MAINTENANCE LEVEL			(5) TOOLS AND EQPT	(6) REMARKS	
				FIE	LD	SUS	ΓΑΙΝΝ	1ENT	EQPI	
				UNIT	DS	GS	DE	POT		
				С	0	F	Ι	D		
L										

Table 2. Tools and Test Equipment for CHASSIS, TRAILER: GENERATOR, 2 1/2-TON, 2-WHEEL, M200A1

(1) TOOLS OR TEST EQUIPMENT	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(5) NATIONAL STOCK NUMBER	(6) TOOL NUMBER

Table 3. Remarks for CHASSIS, TRAILER: GENERATOR, 2 1/2-TON, 2-WHEEL, M200A1

REMARK CODES	REMARKS

SECTION II. MAINTENANCE ALLOCATION CHART

(1) (2) (3)		(3)			(4)		(5)	(6)	
GROUP	COMPONENT/ ASSEMBLY	MAINTENANCE		FIELD SUSTAINMENT				TOOLS AND EQUIPMENT	REMARKS
NUMBER		FUNCTION	U	UNIT		GS	DEPOT	EQUIPMENT	
06	ELECTRICAL SYSTEM		С	0	F	Н	D		
0609	Lamps	Replace		0.5				1	
	Lights	Replace Repair		0.5 0.5				1 1 and 2	
0613	Harness, Wiring Chassis	Test Replace Repair		0.5 1.0 2.0				1 and 2 1 1 and 2	
11	AXLE								
1100	Axle	Inspect Replace		0.2 8.0				1 and 2	
12	BRAKES								
1201	Conduit, with Cable	Replace		2.0				1	
	Lever, Handbrake	Adjust Replace	0.5	2.0				1	
1202	Service Brake Assembly	Inspect Adjust Replace Repair		1.0 1.0 3.0 3.0				1 1 1 1	
1204	Cylinder, Master	Service Replace		0.1 1.0				1	
	Cylinder, Wheel	Replace		1.0				1	
	Lines, Fittings, and Hoses (Hydraulic)	Inspect Replace		0.2 0.5				1	
1208	Chamber, Air	Replace Repair		0.8 1.0				1 1	

SECTION II. MAINTENANCE ALLOCATION CHART—CONTINUED

(1)	(2)	(3)			(4)			(5)	(6)
GROUP NUMBER	COMPONENT/ ASSEMBLY	MAINTENANCE FUNCTION		FIELD		SUST	AINMENT	TOOLS AND EQUIPMENT	REMARKS
			UN	NIT .	DS	GS	DEPOT		
			С	0	F	Н	D		
1208	Coupling, Air	Inspect		0.2					
		Replace		0.5				1	
		Repair		1.0				1	
	Filter, Air	Service		0.2				1	
		Replace		0.5				1	
	Valve, Check and Valve, Relay	Replace		0.5				1	
	Cock, Drain	Replace		0.5				1	
	Reservoir, Air	Service	0.5						
	,	Replace		0.5				1	
	Lines, Fittings, and Hoses (Air)	Inspect Replace		0.5 1.0				1	
13	WHEELS, HUBS								
1311	Drum, Brake	Inspect		3.5				1 and 2	
		Replace		1.0				1 and 2	
		Repair				1.0		5	
	Hub, Wheel	Donland		1.0				1	
	Hub, Wrieei	Replace Repair		1.5				1	
		Ropali		1.5					
	Bearing, Hub	Replace		1.5				1	
	Gasket, Hub	Replace		2.0				1	
	Seal, Oil	Replace		2.0				1	
	Bearing, Wheel	Adjust		1.0				1 and 2	
	Bearing, Wilcon	Replace		1.0				1	
		. ropiaco							
	Stud Wheel	Replace		1.5				1	
	Wheel, Assembly	Replace	0.5					1	
1313	Tires	Inspect	0.1						
		Replace		0.5				2	
		Repair			1.0				

SECTION II. MAINTENANCE ALLOCATION CHART—CONTINUED

(1)	(2)	(3)		(4)			(5)	(6)	
GROUP NUMBER	COMPONENT/ ASSEMBLY	MAINTENANCE FUNCTION		FIELD		SUSTAINMENT		TOOLS AND EQUIPMENT	REMARKS
				UNIT DS GS DE		DEPOT			
			С	0	F	Н	D		
1313	Tubes	Service	0.1						
		Replace		0.5				2	
		Repair		0.8				2	
15	FRAME AND ATTACHMENTS								
1501	Frame	Repair			3.0			5	
1503	Lunette, Towing	Adjust		1.0				1	
7505	Lancite, Towning	Replace		1.5				1	
	Safety Chains	Replace		0.5				1	
1507	Leg, Landing	Replace Repair		1.0	1.5			1	
	Jack, Step Rear	Replace Repair		1.0	1.0			1	
16	SPRINGS								
1601	Spring	Replace		4.0				1,2, and 3	
	Shackle, Spring	Replace		0.5				1,2, and 3	
22	MISCELLANEOUS ACCESSORIES								
	Reflector	Replace		0.5				1	
	Plate, Vehicle Data	Replace		0.5				1 and 2	

SECTION III. TOOLS AND TEST EQUIPMENT REQUIREMENT

(1)	(2)	(3)	(4)	(5)	
REFERENCE CODE	MAINTENACE CATEGORY	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER	
1	0	Tool Kit, Mechanics, General	5180-00-177-7033		
2	0	Shop Equipment, Common Set Number 1	4910-00-754-0654		
3	0	Shop Equipment, Supplemental Set Number 1	4910-00-754-0653		
4	F	Shop Equipment, Field Maintenance Basic Set	4910-00-754-0705		
5	Н	Shop Equipment, Wheeled Field Maintenance, Post, Camp, and Station	4910-00-348-7696		
6	0	Wrench	5120-00-795-0946	7950946	

APPENDIX C

COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS

There are no components of end item and no basic issue items authorized for the generator trailer model M200A1.

APPENDIX D

ADDITIONAL AUTHORIZATION LIST

There are no additional items authorized for the support of the generator trailer model M200A1.

APPENDIX E

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

GENERAL

This appendix lists expendable supplies and materials you will need to operate and maintain the M200A1 generator trailer. These items are authorized to you by CTA 50-970, Expendable Items.

EXPLANATION OF COLUMNS

- a. Column 1, Item Number. This is the number assigned to the entry in the listing
- b. Column 2, Level. This column identifies the lowest level of maintenance that requires the listed items. The symbol designation for the various maintenance levels are as follows:
 - C Operator or Crew
 - O Organizational Maintenance
 - F Direct Support
 - H General Support 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)		(2)	(4)	(5)
ITEM NUMBER	LEVEL	NUMBER	DESCRIPTION (FSCM)	U/M
1	0		CONTAINER, EMPTY, 1-QUART	EA
2	0	9150-01-102-9455	BRAKE FLUID, SILICONE (BFS) (81349) MIL-B-46176 1-GALLON CAN	OZ.
3	0	9150-00-190-0904	GREASE, AUTOMOTIVE AND ARTILLERY (81349) MIL-G-10924 1-POUND CAN	OZ.
4	0	9150-00-186-6181 9150-00-188-9858 9150-00-188-9859 9150-00-189-6729	OIL, LUBRICATING, OE/HDO-30 (81349) MIL-L-2104C 1-QUART CAN TYPE 1 5-GALLON CAN 55-GALLON DRUM (16-GAGE) 55-GALLON DRUM (18-GAGE)	OZ. OZ. OZ. OZ.
5	0	9150-00-402-4478 9150-00-402-2372 9150-00-495-7197	OIL, LUBRICATING, OEA (81349) MIL-L-46167 1-QUART CAN 5-GALLON CAN 55-GALLON DRUM (18-GAGE)	OZ. OZ. OZ.
6	0		PLASTIC TUBING	FT
7	С	7920-00-205-1711	RAGS, WIPING (58536) A-A-531 50-POUND BALE	EA
8	0		SEALING COMPOUND	OZ.
9	0		SOAP SOLUTION	OZ.
10	С	6850-00-664-5685 6850-00-281-1985 6850-00-285-8011	SOLVENT, DRYCLEANING (81349) PD-680, TYPE II 1-QUART CAN 1-GALLON CAN 55-GALLON DRUM	OZ. OZ. OZ.

APPENDIX F

REPAIR PARTS AND SPECIAL TOOLS LISTS

Section I. INTRODUCTION

1. Scope.

This RPSTL authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of organizational, direct support and general support maintenance of the M200Al Trailers 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 I, Introduction, this Repair Parts and Special Tools List (RPSTL) 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 performance of maintenance. This list also includes parts which must be removed for replacement of the authorized parts. Parts 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 by item name sequence. Repair parts for reparable special tools are also listed in the section.
- 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 (UOC) column] for the performance of maintenance.
- c. Section IV Cross-reference Index. 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 level authorization criteria, and disposition instructions, as shown in the following breakout:

Source Code	Maintenance Code		Recoverability Code
xx xx			x
1st two positions	3d position	4th position	5th position
How you get an item	Who can install, replace or use the item	Who can do complete repair* on the item	Who determines disposition on an unserviceable item

*complete Repair: Maintenance capacity, capability, and authority to perform all corrective 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 are as follows:

Code	Explanation		
PA PB PC** PD PE PF PG	Stocked items, use the applicable NSN to request/ requisition items with these source codes. They are authorized to the level indicated by the code entered in the 3d position of the SMR code. **NOTE: Items coded PC are subject to deterioration.		
KD KF KB	Items with these codes are not to be requested/ requisitioned individually. They are part of a kit which is authorized to the maintenance level indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.		

MO-(Made at Org/ Items with these codes are not to be AVUM Level) requested/requisitioned individually.

MF-(Made at DS/ They must be made from bulk material AVUM Level) which is identified by the part number in the DESCRIPTION AND USABLE ON CODE Level) (UOC) column and listed in the Bulk ML-(Made at Spe- Material group of this RPSTL. If the cialized Repair item is authorized to you by the 3d Activity (SRA) position code of the SMR code, but the MD-(Made at Depot) source code indicates it is made at a

higher level, order the item from the higher level of maintenance.

AO-(Assembled by Org/AVUM Level)

AF-(Assembled by DS/AVUM Level)

AH-(Assembled by GS Level)

AL-(Assembled by SRA)

AD-(Assembled by Depot)

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 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 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, if no NSN is available.

NOTE: Cannibalization or controlled exchange, when authorized, may be used as a 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 code tells you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third 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 and 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 organizational or aviation unit maintenance.
- O Organizational or aviation unit level can remove, replace, and use the item.
- F Direct support or aviation intermediate level can remove, replace, and use the item.

Code

Application/Explanation

- H General support level can remove, replace, and use the item.
- L Specialized repair activity can remove, replace, and use the item.
- D Depot level cam 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

Application/Explanation

- o Organizational or aviation unit is the lowest level that can do complete repair of the item.
- F Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
- H 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 Non-reparable. 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, lubricating, 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:

Code

Application/Explanation

z - Non-reparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the 3d position of the SMR code.

Code

- o Reparable item. When uneconomically reparable, condemn and dispose of the item at organizational or aviation unit level.
- F Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate level.
- H Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
- D Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of the item is not authorized below depot level.
- L Reparable item. Condemnation and disposal 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 an NSN to requisition an item, the item you receive may have a different part number from 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) The physical security classification of the item is indicated by the parenthetical entry (insert applicable physical security classification abbreviation, e.g., Phy Sec Cl (C) Confidential, Phy Sec Cl (S) Secret, Phy Sec Cl (T) Top

Secret).

- (3) Items that are included in kits and sets are listed below the name of the kit or set.
- (4) Spare/repair parts that make up an assembled item are listed immediately following the assembled line item 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 the UOC).
- (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 on the BOI, 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 11 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 digits of the NSN (i.e., 01-674-1467). When using this column to locate an item, ignore the first 4 digits of the NSN (i.e., 5305-). However, the complete NSN should be used when ordering items by stock number.
- (2) FIG. column. 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 O 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 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.
- (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 Section 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 Section 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.
- $\mbox{(3)}$ 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 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.

5. Special Information.

a. USABLE ON CODE. The usable on code appears in the lower left corner of the Description column heading. Usable on codes are shown as "UOC " in the Description column (left justified) on the first line of applicable item description/nomenclature. Uncoded items are applicable to all models. Identification of the usable on codes used in the RPSTL are:

Not Applicable

- b. FABRICATION INSTRUCTIONS. Bulk materials required to manufacture items are listed in the Bulk Material 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/fabricated are found in Appendix G.
- c. ASSEMBLY INSTRUCTIONS. Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in Appendix G.
- d. KITS. Line item entries for repair parts kits appear in a group in Section II (see Table of Contents).
- e. INDEX NUMBERS. Items which have the word BULK in the figure column will have an 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.

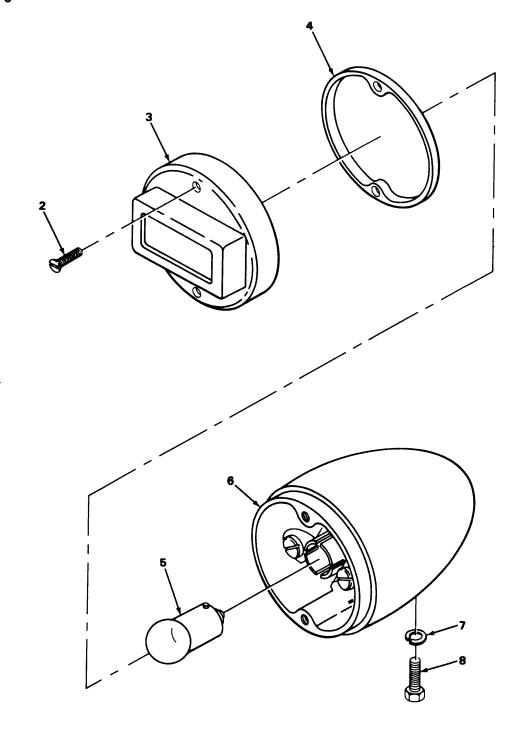
6. How to Locate Repair Parts.

- 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 same 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/Part Number is Known.
 - (1) First. Using the National Stock Number or Part

Number Index, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence. The part numbers in the Part Number index are listed in ascending alphanumeric sequence. 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.

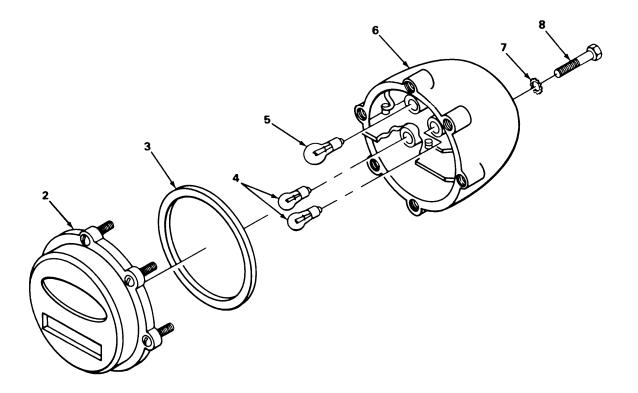




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FIGURE 1. BLACKOUT STOPLIGHT ASSEMBLY (EARLY MODELS).

SECTION (1) ITEM	III (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 06 ELECTRICAL SYSTEM 0609 LIGHTS FIG. 1. BLACKOUT STOPLIGHT ASSEMBLY (EARLY MODELS)	
1	PA000	96906	MS51302-1	STOP LIGHT, VEHICULA BLACKOUT (EARLY MODELS)	1
2	PAOZZ	96906	MS51959-46	SCREW, MACHINE	2
3	PAOZZ	19207	8741646	DOOR ASSEMBLY, STOP	1
4	PAOZZ	73331	5942528	GASKET	1
5	PAOZZ	96906	MS15570-1251	LAMP, INCANDESCENT	1
6	PAOZZ	19207	8741650	HOUSING, BLACKOUT L	1
7	PAOZZ	96906	MS35338-45	WASHER, LOCK	1
8	PAOZZ	96906	MS90726-29	BOLT, MACHINE	1



SECTION (1) ITEM	N II (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				0609 LIGHTS FIG. 2. SERVICE, STOP AND TAIL AND BLACKOUT TAILLIGHT (EARLY MODELS)	
1	PA000	96906	MS51329-1	STOP LIGHT-TAILLIGH TRAILER(EARLY MODELS)	2
2	PAOZZ	19207	7526020	DOOR ASSEMBLY, LIGHT	1
3	PAOZZ	19207	7320658	PACKING, PREFORMED	1
4	PAOZZ	96906	MS15570-1251	LAMP, INCANDESCENT	2
5	PAOZZ	96906	MS35478-1683	LAMP, INCANDESCENT	1
6	PAOZZ	96906	MS53047-1	LIGHT, PARKING	1
7	PAOZZ	12603	23E06	WASHER, LOCK	2
8	PFOZZ	96906	MS18154-58	SCREW, CAP, HEXAGON H	2

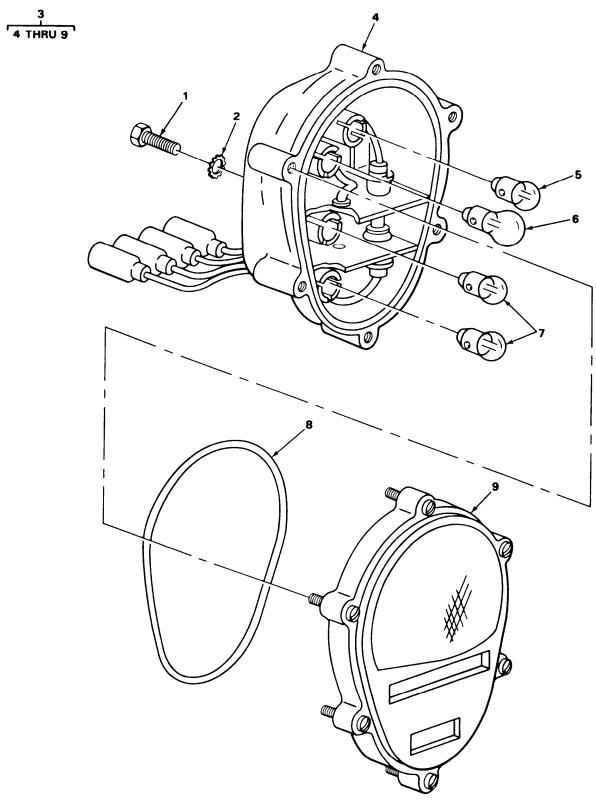


FIGURE 3. REAR COMPOSITE MARKER LIGHT ASSEMBLY (LATE MODELS).

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SECTION (1) ITEM	N II (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				0609 LIGHTS FIG. 3. REAR COMPOSITE MARKER LIGHT ASSEMBLY (LATE MODELS)	
1	PAOZZ	96906	MS90725-57	SCREW, CAP, HEXAGON H	4
2	PAOZZ	96906	MS45904-76	WASHER, LOCK	4
2	PAOZZ	96906	MS35335-35	WASHER, LOCK	4
3	PAOOO	96906	MS52125-2	STOP LIGHT-TAILLIGH COMPOSITE(LATE MODELS)	2
4	PAOZZ	19207	11639520	BODY ASSEMBLY	1
5	PAOZZ	96906	MS15570-623	LAMP, INCANDESCENT	1
6	PAOZZ	96906	MS35478-1683	LAMP, INCANDESCENT	1
7	PAOZZ	96906	MS15570-1251	LAMP, INCANDESCENT	2
8	PAOZZ	19207	11639519-2	PACKING, PREFORMED	1
9	PAOZZ	19207	11639535	LENS, LIGHT	1

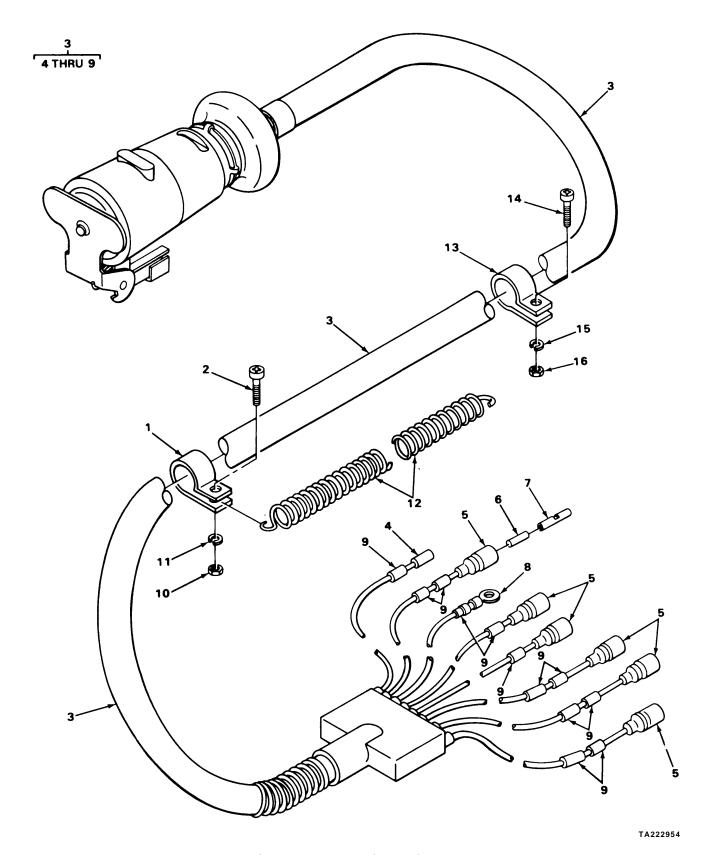


FIGURE 4. INTERVEHICULAR CABLE.

SECTION (1) ITEM	III (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				0613 WIRING HARNESSES FIG. 4. INTERVEHICULAR CABLE	
1	PAOZZ	19207	545033	CLAMP,LOOP	1
2	PAOZZ	96906	MS35206-245	SCREW, MACHINE	1
3	PAOZZ	19207	10891263	WIRING HARNESS	1
4	PAOZZ	19207	8347216	CAP, PROTECTIVE, DUST	1
5	PAOZZ	19207	8338561	SHELL, ELECTRICAL CO	6
6	PAOZZ	19207	8338562	INSULATOR, BUSHING	6
7	PAOZZ	19207	8338564	TERMINAL ASSEMBLY	6
8	XDOZZ	96906	MS25036-54	TERMINAL	1
9	PAOZZ	81349	M43436/1-1	BAND, MARKER	12
10	PAOZZ	96906	MS35649-282	NUT, PLAIN, HEXAGON	1
11	PAOZZ	96906	MS35338-42	WASHER, LOCK	1
12	PAOZZ	40342	N12929	SPRING, HELICAL, EXTE	1
13	PAOZZ	96906	MS21333-107	CLAMP,LOOP	1
14	PAOZZ	96906	MS35206-281	SCREW, MACHINE	1
15	PAOZZ	96906	MS35338-44	WASHER, LOCK	1
16	PAOZZ	96906	MS51967-2	NUT, PLAIN, HEXAGON	1

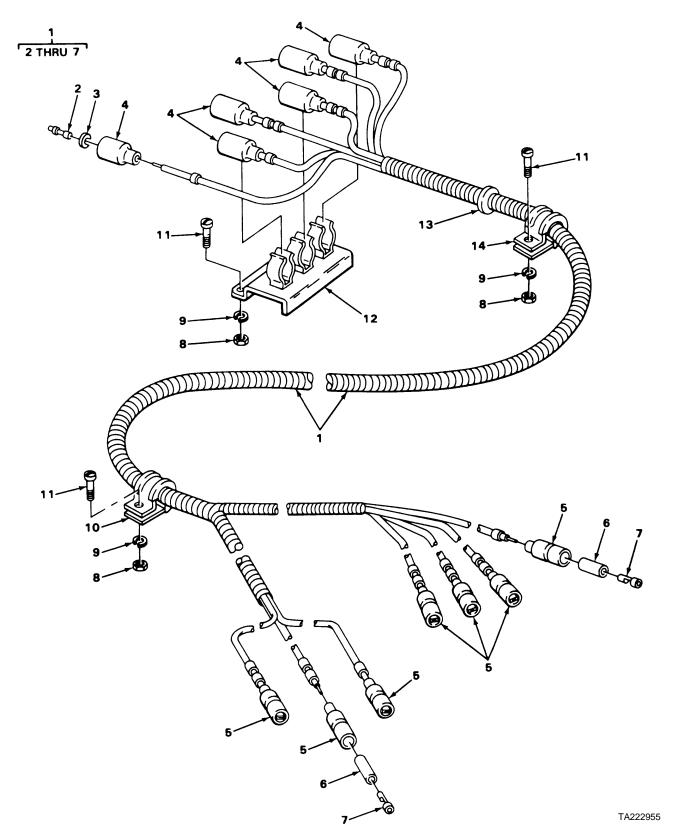


FIGURE 5. CHASSIS WIRING HARNESS FOR BLACKOUT STOPLIGHT ASSEMBLY.

SECTIO	N II		TM9-2330-205-14&P		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				0613 WIRING HARNESSES FIG. 5. CHASSIS WIRING HARNESS FOR BLACKOUT STOPLIGHT ASSEMBLY	
1	PAOZZ	19207	8742401	WIRING HARNESS TRAILER	1
2	PAOZZ	96906	MS27148-2	CONTACT, ELECTRICAL PART OF KIT P/N 7550526	6
3	PAOZZ	19207	8338567	WASHER, SLOTTED PART OF KIT P/N 7550526	6
4	PAOZZ	19207	8338566	SHELL, ELECTRICAL CO PART OF KIT P/N 7550526	6
5	PAOZZ	19207	8338561	SHELL, ELECTRICAL CO PART OF KIT P/N 7550526	7
6	PAOZZ	19207	8338562	INSULATOR, BUSHING PART OF KIT P/N 7550526	7
7	PAOZZ	19207	8338564	TERMINAL ASSEMBLY PART OF KIT P/N 7550526	7
8	PAOZZ	96906	MS51967-2	NUT, PLAIN, HEXAGON	17
9	PAOZZ	96906	MS35338-44	WASHER, LOCK	17
10	XDOZZ	21450	120520	CLAMP,LOOP	1
11	PAOZZ	96906	MS35206-281	SCREW, MACHINE	17
12			8747908	CLIP ASSY, SPRING, TE	4
13 14	PAOZZ PAOZZ	19207 96906	117964 MS21333-38	GROMMET, NONMETALLIC CLAMP, LOOP	4 1 8
14	PAUZZ	90906	M977332-38	CLAMP, LOUP	0

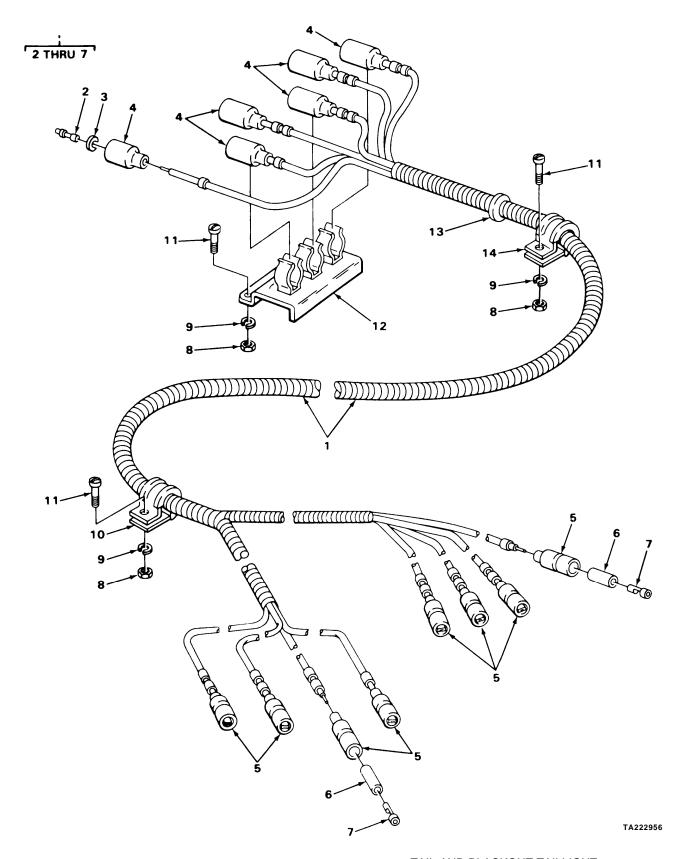
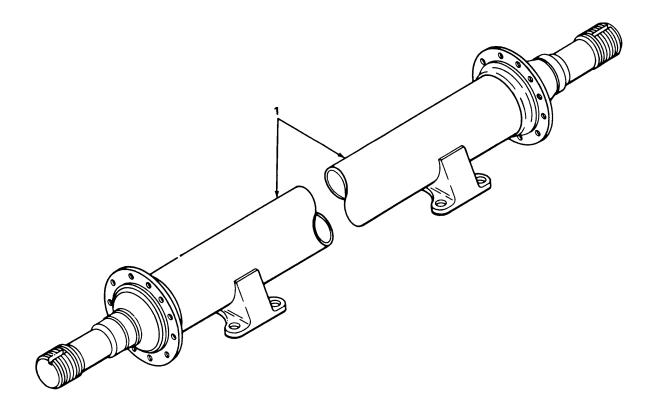
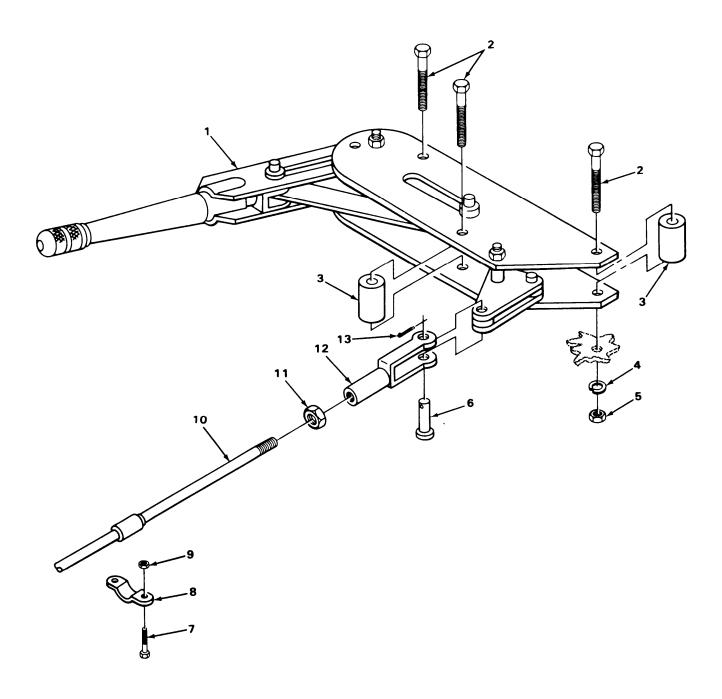


FIGURE 5. CHASSIS WIRING HARNESS SERVICE, STOP, TAIL AND BLACKOUT TAILLIGHT.

SECTION (1)	II (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				0613 WIRING HARNESSES FIG. 6. CHASSIS WIRING HARNESS FOR SERVICE, STOP, TAIL AND BLACKOUT TAILLIGHT	
1	PFOOO	19207	11652180	WIRING HARNESS	1
	PAOZZ	96906	MS27148-2	CONTACT, ELECTRICAL PART OF KIT P/N 7550526	6
3	PAOZZ	19207	8338567	WASHER, SLOTTED PART OF KIT P/N 7550526	6
4	PAOZZ	19207	8338566	SHELL, ELECTRICAL CO PART OF KIT P/N 7550526	6
5	PAOZZ	19207	8338561	SHELL, ELECTRICAL CO PART OF KIT P/N 7550526	8
6	PAOZZ	19207	8338562	INSULATOR, BUSHING PART OF KIT P/N 7550526	8
7	PAOZZ	19207	8338564	TERMINAL ASSEMBLY PART OF KIT P/N 7550526	8
8	PAOZZ	96906	MS51967-2	NUT, PLAIN, HEXAGON	17
9	PAOZZ	96906	MS35338-44	WASHER, LOCK	17
10	XDOZZ	21450	120520	CLAMP, LOOP	1
11	PAOZZ	96906	MS35206-281	SCREW, MACHINE	17
12	PAOZZ	19207	8747908	CLIP ASSY, SPRING, TE	4
13	PAOZZ	19207	117964	GROMMET, NONMETALLIC	1
14	PAOZZ	96906	MS21333-38	CLAMP,LOOP	8



SECTION (1)	N II (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 11 REAR AXLES 1100 REAR AXLE ASSEMBLY FIG. 7. AXLE ASSEMBLY	
1	PAOZZ	19207	7263713	AXLE, VEHICULAR, NOND	1
				END OF FIGURE	



(2)	(3)	TM9-2330-205-14&P (4)	(5)	(6)
CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
			GROUP 12 BRAKES 1201 HAND BRAKES FIG. 8. HANDBRAKE LEVER MECHANISM	
PAOZZ	92867	3100C21B180Y	LEVER ASSY, PARKING	2
PAOZZ	96906	MS90728-67	SCREW, CAP, HEXAGON H	6
PAOZZ	19207	8699500	SPACER, SLEEVE	6
PAOZZ	96906	MS35338-46	WASHER, LOCK	6
PAOZZ	96906	MS51922-17	NUT, SELF-LOCKING, HE	6
PFOZZ	96906	MS35810-4	PIN, STRAIGHT, HEADED	2
PAOZZ	96906	MS90728-36	BOLT, MACHINE	4
PAOZZ	19207	5303461	BRACKET, BRAKE CABLE	2
PAOZZ	10001	419908PC40	NUT, SELF-LOCKING, HE	4
PFOZZ	96906	MS53060-3	CABLE ASSEMBLY, HAND	2
PAOZZ	96906	MS51968-8	NUT, PLAIN, HEXAGON	2
PFOZZ	96906	MS35812-4	CLEVIS, ROD END	2
PAOZZ	96906	MS24665-283	PIN, COTTER	2
	PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ PFOZZ PAOZZ PAOZZ PAOZZ PAOZZ PFOZZ PFOZZ	(2) (3) SMR CODE FSCM PAOZZ 92867 PAOZZ 96906 PAOZZ 19207 PAOZZ 96906 PAOZZ 96906 PAOZZ 96906 PAOZZ 19207 PAOZZ 10001 PFOZZ 96906 PAOZZ 96906 PAOZZ 96906 PAOZZ 96906 PAOZZ 96906 PAOZZ 96906	(2) (3) (4) SMR PART CODE FSCM NUMBER PAOZZ 92867 3100C21B180Y PAOZZ 96906 MS90728-67 PAOZZ 19207 8699500 PAOZZ 96906 MS35338-46 PAOZZ 96906 MS35338-46 PAOZZ 96906 MS51922-17 PFOZZ 96906 MS35810-4 PAOZZ 19207 5303461 PAOZZ 19207 5303461 PAOZZ 19207 H19908PC40 PFOZZ 96906 MS51968-8 PFOZZ 96906 MS51968-8 PFOZZ 96906 MS51968-8 PFOZZ 96906 MS51968-8	(2) (3) (4) (5) SMR PART CODE FSCM NUMBER DESCRIPTION AND USABLE ON CODE (UOC) GROUP 12 BRAKES 1201 HAND BRAKES FIG. 8. HANDBRAKE LEVER MECHANISM PAOZZ 92867 3100C21B180Y LEVER ASSY, PARKING PAOZZ 96906 MS90728-67 SCREW, CAP, HEXAGON H PAOZZ 19207 8699500 SPACER, SLEEVE PAOZZ 19207 8699500 SPACER, SLEEVE PAOZZ 96906 MS35338-46 WASHER, LOCK PAOZZ 96906 MS51922-17 NUT, SELF-LOCKING, HE PFOZZ 96906 MS90728-36 BOLT, MACHINE PAOZZ 19207 5303461 BRACKET, BRAKE CABLE PAOZZ 10001 419908PC40 NUT, SELF-LOCKING, HE PFOZZ 96906 MS53060-3 CABLE ASSEMBLY, HAND PAOZZ 96906 MS51968-8 NUT, PLAIN, HEXAGON PFOZZ 96906 MS51968-8 CLEVIS, ROD END

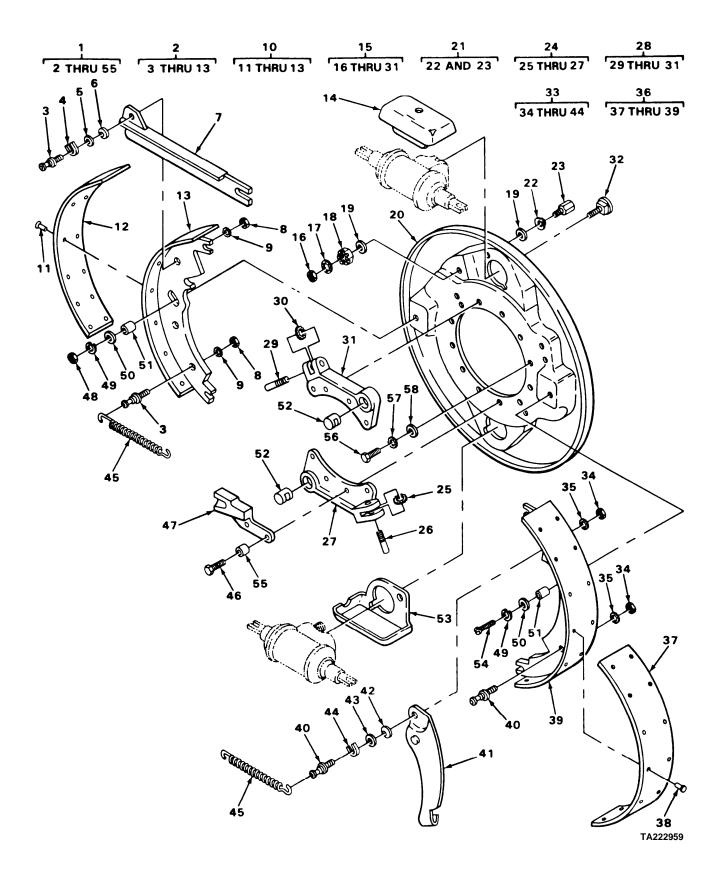
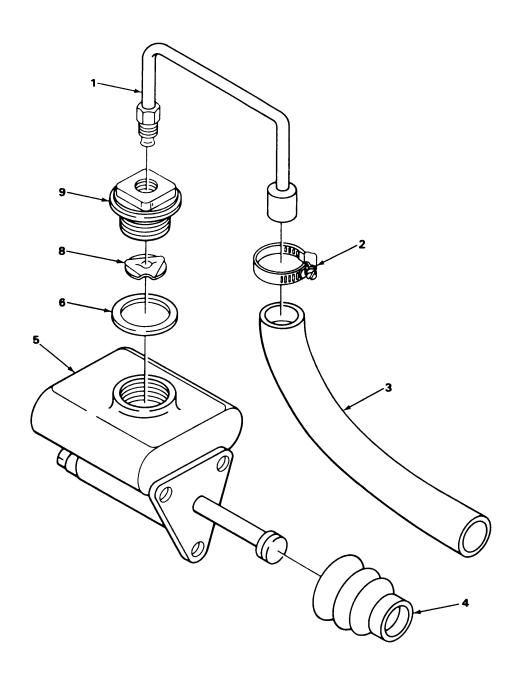


FIGURE 9. BRAKE ASSEMBLY.

SECTION (1)	(2)	(3)	TM9-2330-205-14&P (4)	(5)	(6)
ITEM	SMR	(3)	PART	(3)	(0)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1202 SERVICE BRAKES	
				FIG. 9. BRAKE ASSEMBLY	
1	PA000	78500	A3236N1262	BRAKE, SHOE TYPE RIGHT HAND	1
1	PA000	78500	A3236M1261	BRAKE, SHOE TYPE LEFT HAND	1
2	PAOOO	63477	FE17760	BRAKE SHOE FRONT RIGHT HAND	1
2	PAOOO	63477	FE17759	BRAKE SHOE FRONT LEFT HAND	1
3	PAOZZ	63477	F17758	PIN, SERVICE BRAKE	2
4	PAOZZ	19207	8733937	WASHER, SLOTTED	1
5	PAOZZ	19207	8733936	WASHER, FLAT	1
6	PAOZZ	19207	8733935	WASHER, SPRING TENSI	1
7	PAOZZ	19207	8733926	CONNECTING LINK, RIG LEFT HAND	1
7	PAOZZ	63477	F017762	LINK EMERGENCY BRAK RIGHT HAND	1
8	PAOZZ	96906	MS51970-4	NUT, PLAIN, HEXAGON	2
9	PAOZZ	96906	MS35335-36	WASHER, LOCK	2
10 11	PAOFF PAFZZ	63477 96906	F19223	BRAKE SHOE FRONT RIGHT AND LEFT	1 14
12	PAFZZ	19207	MS16536-175 8720517	RIVET,TUBULAR LINING,FRICTION	1
13	XDFZZ	19207	7064979	SHOE	1
14	PAOZZ	63477	F9556	SHIELD, BRAKE DISK	1
15	PAOZZ	63477	FE19580	PLATE, BACKING, BRAKE RIGHT HAND	1
15	PAOZZ	78500	A1-3236M1261	PLATE, BACKING, BRAKE LEFT HAND	1
16	PAOZZ	96906	MS35691-13	NUT, PLAIN, HEXAGON	2
17	PAOZZ	96906	MS35333-41	WASHER, LOCK	2
18	PAOZZ	63477	FC14257	PINION, BRAKE SHOE A	2
19	PAOZZ	19207	7412120	WASHER, FLAT	4
20	PAOZZ	19207	8733933	PLATE, BACKING, BRAKE RIGHT HAND	1
20	PAOZZ	78500	A1-3236M1261	PLATE, BACKING, BRAKE LEFT HAND	1
21	PAOZZ	19207	8720331	SPRING AND BOLT ASS	1
22	XDOZZ	19207	8712119	WASHER	1
23	XDOZZ	19207	8712118	STUD	1
24	PA000	63477	F17764	SUPPORT AND ADJUSTE LEFT HAND	1
25	PAOZZ	63477	FC22219	WHEEL, SLACK ADJUSTE	1
26	PAOZZ	63477	FC22221	SCREW, BRAKE SHOE AD	1
27 28	PAOZZ	19207 18876	8733908	SUPPORT ASSY	1 1
29	PAOOO PAOZZ	63477	8733897 FC22220	SUPPORT AND ADJUSTE RIGHT HAND SCREW, BRAKE SHOE AD LEFT HAND	1
30	PAOZZ	63477	FC22219	WHEEL, SLACK ADJUSTE	1
31	PAOZZ	19207	8733909	SUPPORT ASSEMBLY	1
32	PAOZZ	19207	7411760	BOLT, SQUARE NECK	1
33	PA000	63477	F19223	BRAKE SHOE RIGHT HAND	1
33	PA000	63477	FE17748	BRAKE SHOE LEFT HAND	1
34	PAOZZ	96906	MS51970-4	NUT, PLAIN, HEXAGON	2
35	PAOZZ	96906	MS35335-36	WASHER, LOCK	2
36	PAOFF	63477	F19223	BRAKE SHOE	1
37	PAFZZ	19207	8720517	LINING, FRICTION	1
38	PAFZZ	96906	MS16536-175	RIVET, TUBULAR	14
39	XDFZZ	19207	7064979	SHOE	1
40	PAOZZ	63477	F17758	PIN, SERVICE BRAKE	2
41	PAOZZ	02686	123917	LEVER, LEFT HAND BRA	1
41	PAOZZ	63477	F17751	LEVER, RIGHT HAND BR	1 2
42	PAOZZ	19207	8733935	WASHER, SPRING TENSI	۷

SECTION II			TM9-2330-205-14&P		
(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
43	D3077	19207	8733936	WACITED BLAM	2
	PAOZZ			WASHER, FLAT	2
44	PAOZZ	19207	8733937	WASHER, SLOTTED	2
45	PAOZZ	19207	8720515	SPRING, HELICAL, EXTE	
46	PAOZZ	96906	MS90726-60	SCREW, CAP, HEXAGON H	
47	PAOZZ	63477	F19582	RAMP, BRAKE CABLE RIGHT HAND	
47	PAOZZ	63477	F19581	RAMP, CABLE LEFT HAND	1
48	PAOZZ	96906	MS51970-1	NUT, PLAIN, HEXAGON	1
49	PAOZZ	96906	MS35338-44	WASHER, LOCK	2
50	PFOZZ	63477	F6783	WASHER, FLAT	2
51	PAOZZ	19207	7412103	SPACER, SLEEVE	1
52	PAOZZ	63477	F12088	PIN, STRAIGHT, HEADLE	2
53	PAOZZ	19207	7412068	SHIELD, BRAKE DISK	1
54	PAOZZ	96906	MS90726-8	SCREW, CAP, HEXAGON H	1
55	PAOZZ	19207	7373354	SPACER, RING	2
56	PAOZZ	96906	MS90726-64	SCREW, CAP, HEXAGON H	8
57	PAOZZ	96906	MS35335-35	WASHER, LOCK	8
58	PFOZZ	63477	F6783	WASHER, FLAT	8



SECTION (1) ITEM	II (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1204 HYDRAULIC BRAKE SYSTEM FIG. 10. MASTER CYLINDER ASSEMBLY	
1	PFOZZ	23705	A298322	TUBE ASSEMBLY, METAL	1
2	PFOZZ	96906	MS35842-10	CLAMP, HOSE	1
3	PAOZZ	96906	MS521301A204120	HOSE, NONMETALLIC	1
4	PAOZZ	19207	7979699	BOOT, DUST AND MOIST	1
5	PAOZZ	63477	FE14240	CYLINDER ASSEMBLY, H	1
6	PAOZZ	80205	NAS1611-123	PACKING, PREFORMED	1
7	PAOZZ	63477	7979691	CAP, FILLER OPENING	1
8	PAOZZ	63477	FE14240	CYLINDER ASSEMBLY,H	1
9	PAOZZ	19207	7979690	ADAPTER, STRAIGHT, TU	1

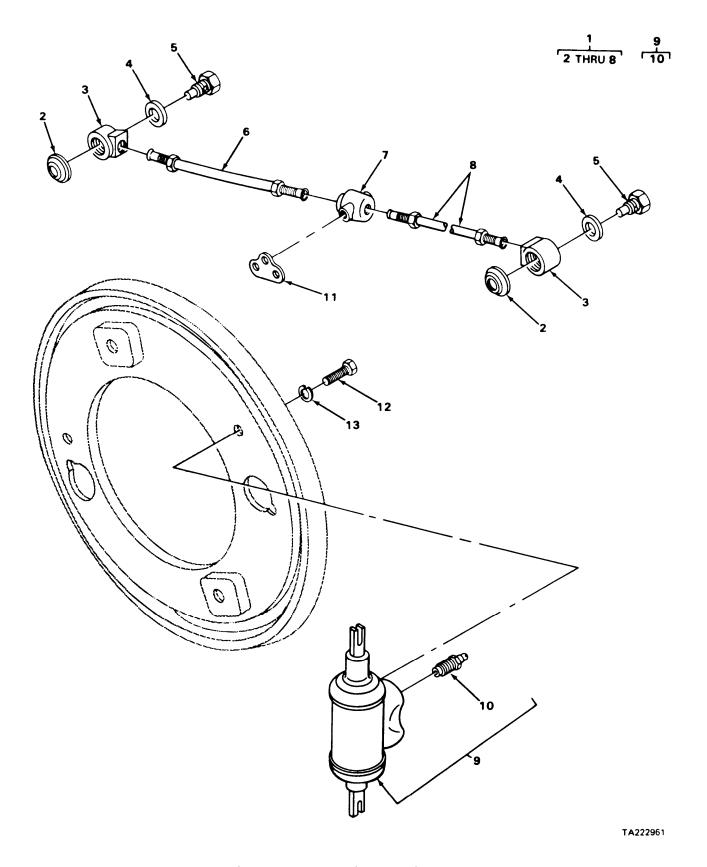


FIGURE 11. HYDRAULIC WHEEL CYLINDER.

SECTION (1) ITEM	III (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1204 HYDRAULIC BRAKE SYSTEM FIG. 11. HYDRAULIC WHEEL CYLINDER	
1 1 2 3 4 5 6 7 8 9 10 11	PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ	19207 63477	FD13346 FD13347 7412088 7745464 5214539 7412079 8733922 FC13927E 8733920 8733928 7373260 F19636 F19635	TUBE ASSEMBLY, METAL LEFT HAND TUBE ASSEMBLY, METAL RIGHT HAND WASHER, SHOULDERED A TEE, TUBE WASHER, FLAT BOLT, FLUID PASSAGE TUBE ASSEMBLY, METAL REAR CONNECTOR, MULTIPLE, TUBE ASSEMBLY, METAL FRONT CYLINDER ASSEMBLY, H BLEEDER VALVE, HYDRA BRACKET, RIGHT HAND BRACKET, LEFT HAND LEFT HAND	1 1 2 2 2 2 2 2 1 1 1 4 1 1
12 13	PAOZZ PAOZZ	96906 96906	MS90725-31 MS35338-45	BOLT,MACHINE WASHER,LOCK	4 4

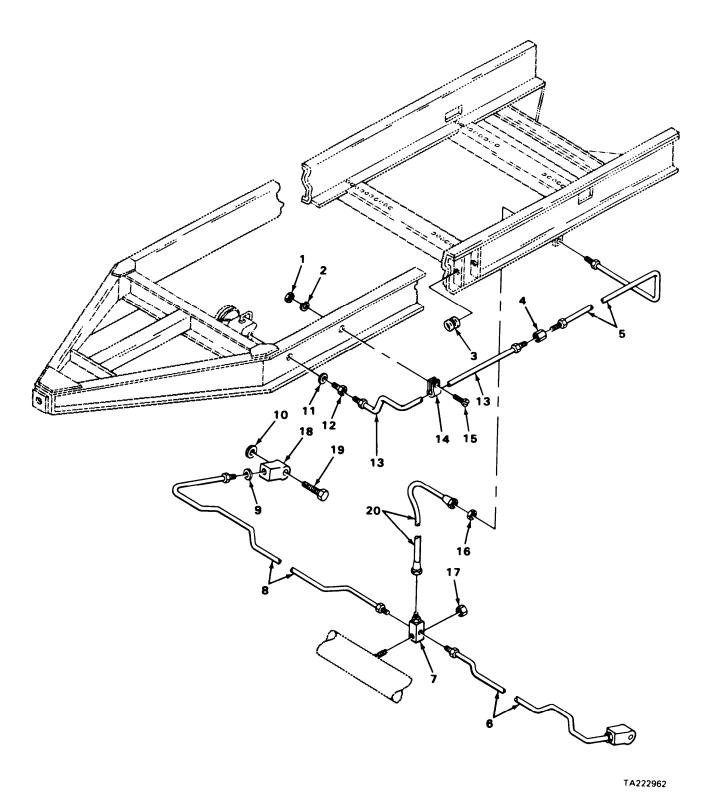


FIGURE 12. HYDRAULIC BRAKE SYSTEM.

SECTION II			TM9-2330-205-14&P		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1204 HYDRAULIC BRAKE SYSTEM FIG. 12. HYDRAULIC BRAKE SYSTEM	
1	PFOZZ	19207	7706441	NUT, PLAIN, HEXAGON	6
2	PAOZZ	96906	MS35338-44	WASHER, LOCK	6
3	PAOZZ	19207	117964	GROMMET, NONMETALLIC	4
4	PAOZZ	96906	MS51877-4	COUPLING, TUBE	1
5	PAOZZ	74405	F1567-3-1	TUBE ASSEMBLY, METAL	1 1
6	PAOZZ		F1567-3-3	TUBE ASSY, METAL	1
7	PAOZZ	79470	5167679	CONNECTOR, MULTIPLE,	1 1 2 2
8	PAOZZ	74405	F1567-3-4	TUBE ASSY, METAL	1
9	PAOZZ	19207	7412088	WASHER, SHOULDERED A	2
10	PAOZZ		5298653	SPACER, RING	
11	PAOZZ	19207	5214539	WASHER, FLAT	1
12	PAOZZ	63477	5156653	ADAPTER, STRAIGHT, TU	1
13	PAOZZ	74405	F1567-3-2	TUBE ASSEMBLY, METAL MASTER CYLINDER TO REAR UNION	1
14	PAOZZ	96906	MS21333-34	CLAMP, LOOP TUBE	6
15	PAOZZ	96906	MS35206-281	SCREW, MACHINE	6
16	PAOZZ	96906	MS35691-53	NUT, PLAIN, HEXAGON	1
17	PAOZZ	96906	MS21045-6	NUT, SELF-LOCKING, HE	1
18	PAOZZ		7745464	TEE, TUBE	1 2
19	PAOZZ	63477	7412079	BOLT, FLUID PASSAGE	2
20	PAOZZ	63477	F6222	HOSE ASSEMBLY, NONME	1

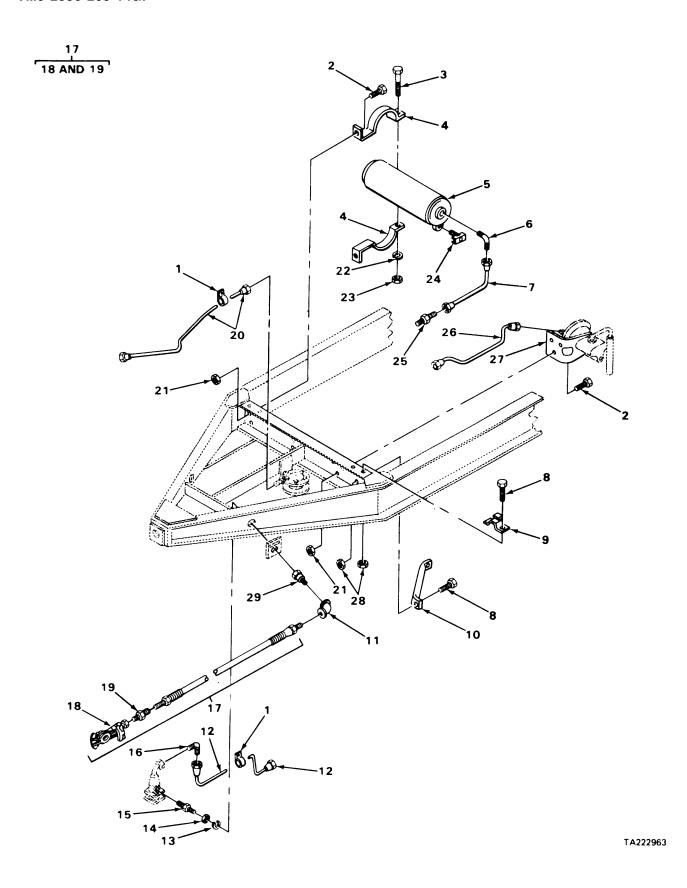


FIGURE 13. AIR BRAKE SYSTEM.

SECTION (1) ITEM	(2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1208 AIR BRAKE SYSTEM FIG. 13. AIR BRAKE SYSTEM	
1 2 3 4 5 6 7	PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ	96906 40342 23705 96906 19207	MS21333-36 MS90727-60 MS90727-74 N13008 A298748 MS39182-6 8699511	CLAMP, LOOP SCREW, CAP, HEXAGON H SCREW, CAP, HEXAGON H STRAP, RETAINING TANK, PRESSURE ELBOW, PIPE TO TUBE LINE, RELAY VALVE	2 7 2 4 1 1
8 9 10 11 12	PFOZZ XDOZZ	19207 19207	MS90726-34 7979851 10931736 MS51845-4 8699512	BOLT, MACHINE BRACKET, PIPE SUPPORT ELBOW, PIPE LINE, AIR FILTER TO COUPLING TO	5 2 1 2
13 14 15	PAOZZ PAOZZ PAOZZ	96906 30612 16662	MS35333-49 24569D AC2569	RELAY VALVE WASHER,LOCK NUT,PLAIN,HEXAGON ADAPTER,STRAIGHT,PI UOC:C37	2 2 2
16 17 18 19	PAOZZ PFOZZ	96906 96906	MS39182-3 A298408 MS35746-1 MS39133-2-B	ELBOW, PIPE TO TUBE HOSE ASSEMBLY, NONME COUPLING HALF, QUICK ADAPTER, STRAIGHT, PI	1 2 1 1
20 21 22 23 24	PAOZZ PAOZZ PAOZZ	19207 96906 96906 96906 96906	8699510 MS21044N6 MS35338-46 MS51968-8 MS35782-5	LINE,AIR FILTER TO RELAY VALVE NUT,SELF-LOCKING,HE WASHER,LOCK NUT,PLAIN,HEXAGON COCK,DRAIN	1 7 2 2 1
25	PAOZZ	96906	MS39179-9	ADAPTER,STRAIGHT,PI RELAY VALVE TO RESERVOIR	1
26 27 28 29		19207 40342 96906 40342	8699513 N3550 MS21044N5 8330281	LINE, RELAY VALVE TO AIR CHAMBER BRACKET, MOUNTING NUT, SELF-LOCKING, HE NIPPLE, PIPE	1 1 5 2

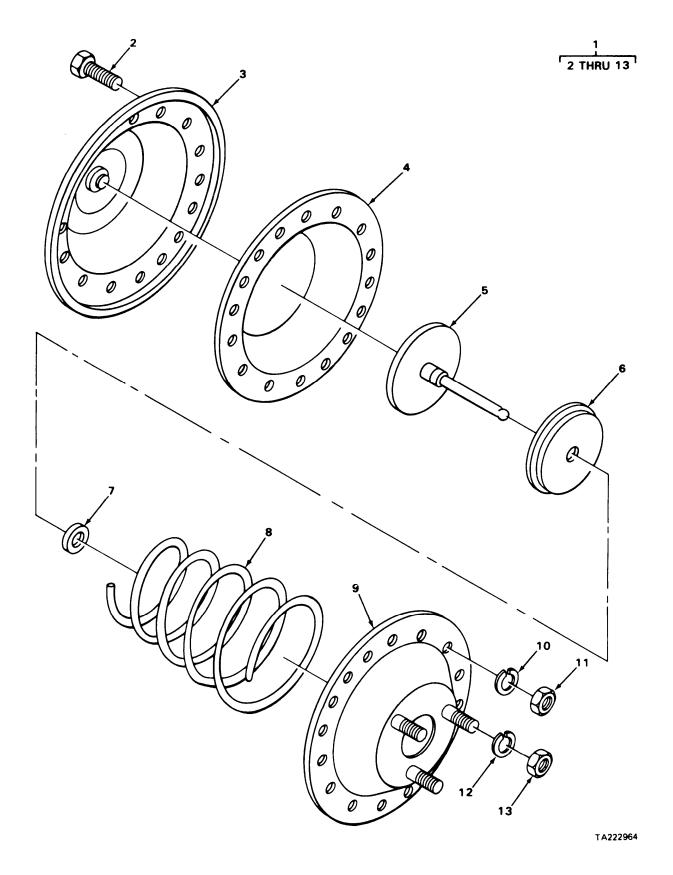


FIGURE 14. AIR CHAMBER ASSEMBLY.

SECTION	1 II		TM9-2330-205-14&P		
(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1000 ATD DDAKE GUGERN	
				1208 AIR BRAKE SYSTEM	
				FIG. 14. AIR CHAMBER ASSEMBLY	
1	PAOZZ	23075	A298320	CHAMBER, AIR BRAKE	1
2	PAOZZ	96906	MS90726-33	BOLT, MACHINE	16
3	PFOZZ	19207	7979602	COVER	1
				~	1
4	PAOZZ	19207	7377783	DIAPHRAGM, CHAMBER, B	1
5	PFOZZ	19207	7979599	ROD, CHAMBER ASSEMBL	1
6	PAOZZ	19207	7979610	RETAINER, HELICAL CO	1
7	PAOZZ	96906	MS28775-012	PACKING, PREFORMED	1
8	PAOZZ	19207	7979608	SPRING, HELICAL, COMP	1
9	PAOZZ	97554	7979605	BODY ASSEMBLY, CHAMB	1
10	PAOZZ	96906	MS35338-45	WASHER, LOCK	16
11	PAOZZ	96906	MS51968-5	NUT, PLAIN, HEXAGON	16
12	PAOZZ	96906	MS35338-46	WASHER, LOCK	3
13	PFOZZ	96906	MS51967-8	NUT, PLAIN, HEXAGON	3
	555	2000	11001707	1.01 / 1 21111 / 112111001	_

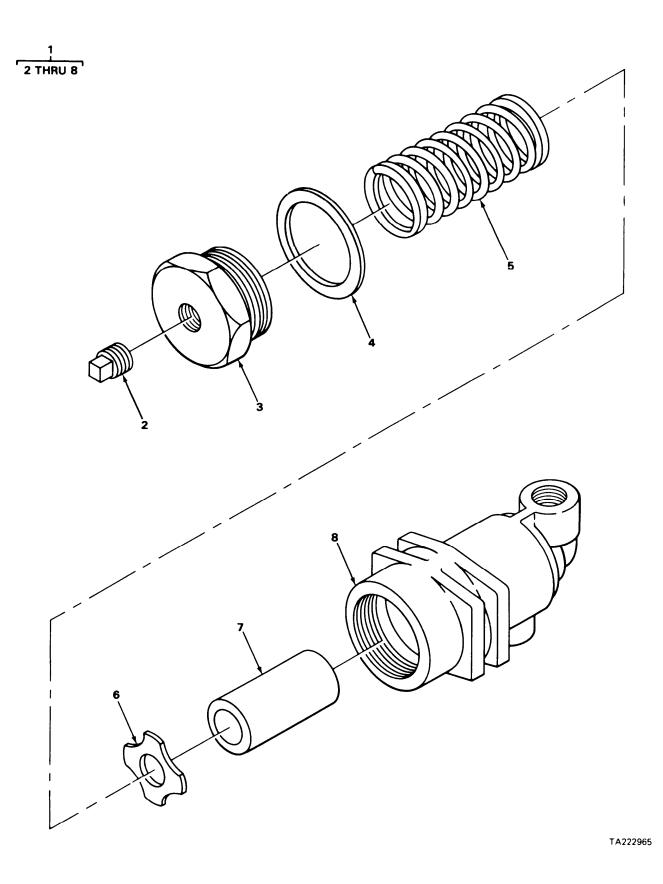
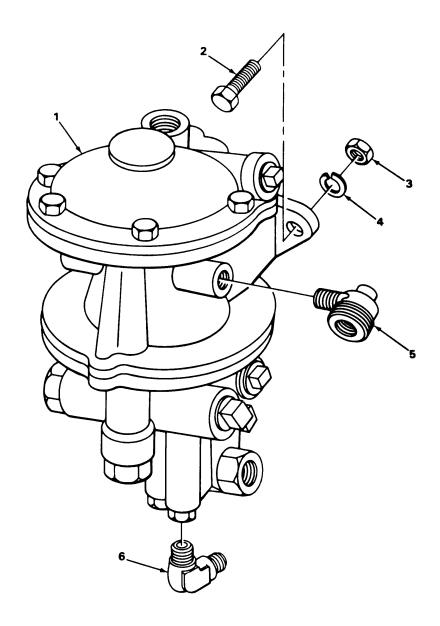


FIGURE 15. AIR FILTER,

SECTION (1)	(2)	(3)	TM9-2330-205-14&P (4)	(5)	(6)
ITEM NO	SMR CODE	FSCM	PART NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1208 AIR BRAKE SYSTEM FIG. 15. AIR FILTER	
1	PAOZZ	23705	A298749	AIR FILTER, BRAKE LI	2
2	PAOZZ	96906	MS20913-1S	PLUG, PIPE	1
3	PAOZZ	06853	235091	ADAPTER BUSHING	1
4	PAOZZ	91340	M4X509	GASKET PART OF KIT P/N 10130	1
5	PAOZZ	06853	235093	SPRING, HELICAL, COMP	1
6	PAOZZ	40342	N12972	WASHER, SPRING TENSI	1
7	PAOZZ	23705	N12971	FILTER ELEMENT, FLUI PART OF KIT P/N 10130	1
8	PAOZZ	40342	N-12970-A	ELBOW BODY, AIR LINE	1



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SECTION (1) ITEM	III (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1208 AIR BRAKE SYSTEM FIG. 16. EMERGENCY RELAY VALVE	
1	PAOZZ	96906	MS53004-2	PARTS KIT, RELAY VAL	1
2	PAOZZ	96906	MS18153-61	SCREW, CAP, HEXAGON H	2
3	PAOZZ	96906	MS21044N6	NUT, SELF-LOCKING, HE	2
4	PAOZZ	96906	MS35338-46	WASHER, LOCK	2
5	PAOZZ	19207	7979297	VALVE, CHECK	2
6	PAOZZ	96906	MS39182-5	ELBOW, PIPE TO TUBE	1

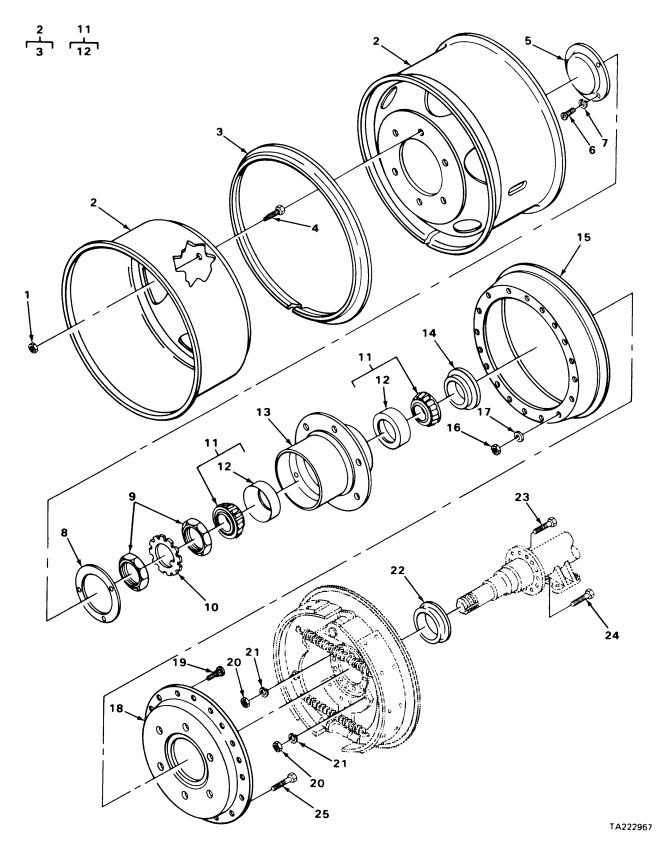


FIGURE 17. HUB AND DRUM ASSEMBLY.

SECTION (1) ITEM	N II (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 13 WHEELS, HUBS AND DRUMS 1311 WHEELS, HUBS AND DRUMS FIG. 17. HUB AND DRUM ASSEMBLY	
1 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	PAOZZ	96906 96906 96906 96906 19204 96906 19207 19207 19207 19207 19207 19207 19207 19207 19207 19207 19207 19207 19207 19207 24617 09386 96906 96906 96906 23862 96906 96906	MS51983-4 MS51983-3 MS53044-5 MS53045-3 MS53068-1 MS53068-2 6144454 MS35206-279 MS35338-44 10910885 7411379 7411378 MS19081-112 7411377 7263712 7411429 2284031 67428E2 MS27183-14 7413231 MS51946-1 MS51946-2 MS51946-2 MS35335-35 2275698 MS90726-60 MS90727-64	NUT, PLAIN, SINGLE BA RIGHT HAND NUT, PLAIN, SINGLE BA LEFT HAND WHEEL, PNEUMATIC TIR RING, SIDE, AUTOMOTIV NUT, CAP, DUAL WHEEL NUT, CAP, DUAL WHEEL RIGHT HAND CAP SCREW, MACHINE WASHER, LOCK GASKET NUT, PLAIN, OCTAGON WASHER, KEY BEARING, ROLLER, TAPE CUP, TAPERED ROLLER HUB, BODY SEAL, PLAIN ENCASED BRAKE DRUM NUT, SELF, LOCKING, HE WASHER, FLAT BACK FRONT BRAKE DR BOLT, RIBBED SHOULDE LEFT HAND NUT, PLAIN, HEXAGON WASHER, LOCK SPACER, SLEEVE HUB INNER OIL SEAL SCREW, CAP, HEXAGON H SCREW, CAP, HEXAGON H	6 6 4 1 6 6 2 6 6 1 4 2 4 1 2 2 3 6 3 6 2 2 6 3 6 2 2 3 6 6 2 2 3 6 6 2 2 2 3 6 6 6 2 2 2 2
25	PFOZZ	18876	8720025	BOLT, RIBBED NECK	36

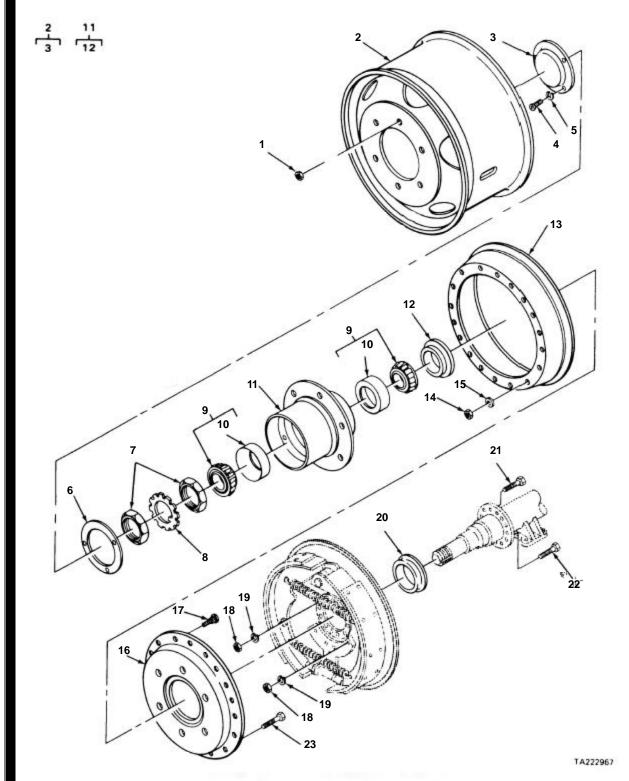
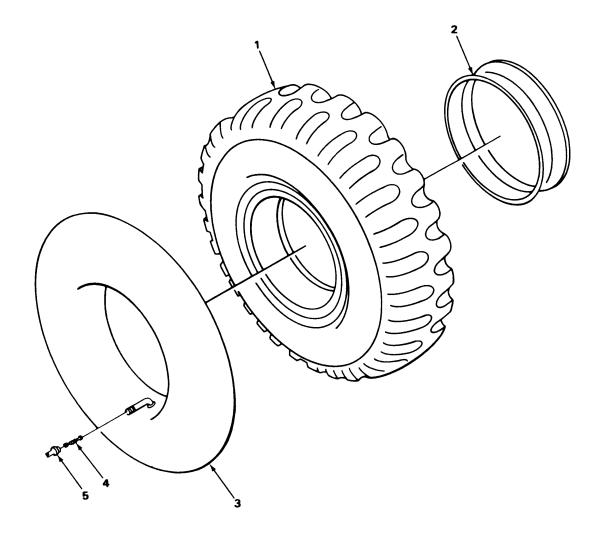


FIGURE 17A. HUB AND DRUM ASSEMBLY FOR USE WITH SUPER SINGLE STYLE

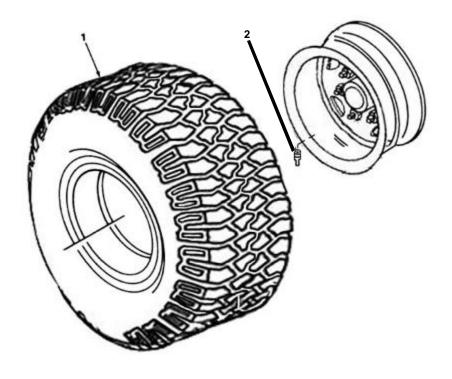
SECTION II (1) ITEM	(2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 13 WHEELS, HUBS AND DRUMS 1311 WHEELS, HUBS AND DRUMS FIG. 17. HUB AND DRUM ASSEMBLY	
1	PAOZZ	02686	129378	NUT,WHEEL,FLANGED,RIGHT HAND	12
2	PAOZZ	7J015	1050110	WHEEL, PNEUMATIC TIR	2 2 6 6
3	PAOZZ	19204	6144454	CAP	2
4	PAOZZ	96906	MS35206-279	SCREW,MACHINE	6
5	PAOZZ	96906	MS35338-44	WASHER,LOCK	1
6 7	PAOZZ PAOZZ	19207 19207	10910885 7411379	GASKET	
8	PAOZZ	19207	7411379 7411378	NUT,PLAIN,OCTAGON WASHER.KEY	2
9	PAOZZ	96906	MS19081-112	BEARING,ROLLER,TAPE	4 2 4
10	PAOZZ	19207	7411377	.CUP.TAPERED ROLLER	1
11	PAOZZ	19207	11682127-1	HUB.BODY	2
12	PAOZZ	19207	7411429	SEAL.PLAIN ENCASED	2 2 2
13	PAOZZ	24617	2284031	BRAKE DRUM	2
14	PAOZZ	09386	67428E2	NUT,SELF,LOCKING,HE	36
15	PAOZZ	96906	MS27183-14	WASHER,FLAT	36
16	PAOZZ	19207	7413231	BACK FRONT BRAKE DR	2
17	PAOZZ	7J015	MS51946-2	BOLT,RIBBED SHOULDER, RIGHT HAND	12
18	PAOZZ	96906	MS51968-8	NUT,PLAIN,HEXAGON	24
19	PAOZZ	96906	MS35335-35	WASHER, LOCK	24
20	PAOZZ	23862	2275698	SPACER, SLEEVE HUB	
				INNER OIL SEAL	2
21	PAOZZ	96906	MS90726-60	SCREW,CAP,HEXAGON H	8
22	PAOZZ	96906	MS90727-64	SCREW,CAP,HEXAGON H	16
23	PFOZZ	18876	8720025	BOLT,RIBBED NECK	36

FOR USE WITH SUPER SINGLE STYLE



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SECTION (1) ITEM	N II (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1313 TIRES AND TUBES FIG. 18. TIRE AND TUBE	
1	PAOFF	81348	ZZ-T-381M/GROUP 3/9.00-20/D/TBCC	TIRE, PNEUMATIC	4
2	PAOZZ	73808	20R	FLAP, INNER TUBE, PNE	4
3	PAOZZ	18990	BG26332	INNER TUBE, PNEUMATI	4
4	PAOZZ	17875	100AA	VALVE CORE	4
5	PAOZZ	96906	MS51375-1	CAP, PNEUMATIC VALVE	4



FOR USE WITH SUPER SINGLE STYLE FIGURE 18A. TIRE.

SECTION II			TM9-2330-205-14&P		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1313 TIRES AND TUBES FIG. 18A. TIRE AND TUBE	
1 2	PAOFF PAOZZ	81348 7J015	G186.10R22.5 1050111	TIRE,PNEUMATIC VALVE STEM	2 2
				END OF FIGURE	

FOR USE WITH SUPER SINGLE STYLE

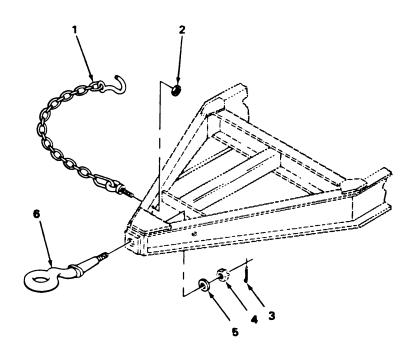


FIGURE 19. LUNETTE, SAFETY CHAINS

SECTION II			TM9-2330-205-14&P		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE	QTY
				ON CODE (UOC)	
				GROUP 15 FRAME AND TOWING	
				ATTACHMENTS	
				1503 TOWING ATTACHMENTS	
				FIG. 19. LUNETTE, SAFETY CHAINS	
1	PAOZZ	19207	12461851-12	CHAIN ASSEMBLY	2
2	PAOZZ	96906	MS51922-49	NUT,SELF-LOCKING,HE	2
3	PAOZZ	96906	MS90728-167	SCREW,CAP,HEXAGON H	12
3	PFOZZ	96906	MS24665-498	PIN,COTTER	1
4	PAOZZ	19207	7411028	NUT,PLAIN,SLOTTED,H	1
4	PAOZZ	19207	8699518	ADAPTER, TOWING ATTA RIGHT HAND	1
4	PAOZZ	19207	8742385	ADAPTER ASSY, SPRING LEFT HAND	1
5	PAOZZ	19207	8699517	PIN,STRAIGHT,HEADLE	2
5	PAOZZ	24617	446284	WASHER,FLAT	1
6	PAOZZ	96906	MS51922-49	NUT,SELF-LOCKING,HE	12
6	PAOZZ	96906	MS51339-3	COUPLER, DRAWBAR, RIN	1

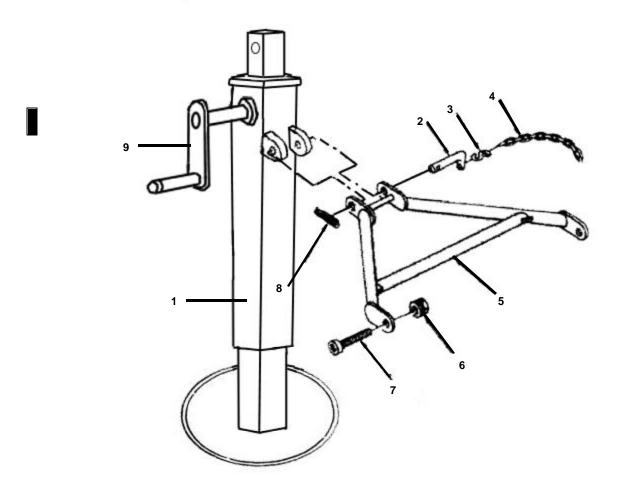
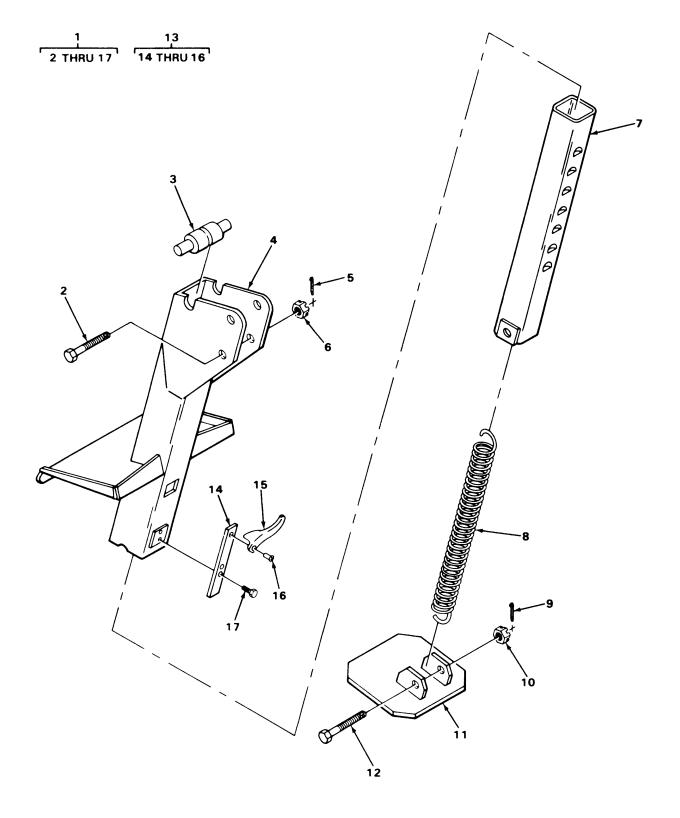


FIGURE 20 . LANDING LEG ASSEMBLY.

SECTION II			TM9-2330-205-14&P		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1507 LANDING GEAR AND LEVELING JACKS FIG. 20. LANDING LEG ASSEMBLY	
1	PAOZZ	19207	12476168	SUPPORT,RETRACTABLE	1
2	PAOZZ	19207	7392875	PIN,LANDING LEG	1
3	PAOZZ	96906	MS87006-41	HOOK,CHAIN,S	2
4	PAOZZ	19207	820070	CHAIN,WELDLESS	2
5	PBOZZ	19207	12476134	BRACE,LANDING LEG	1
6	PAOZZ	96906	MS51922-33	NUT,SELF-LOCKING,HE	2
7	PAOZZ	96906	MS90728-114	SCREW,CAP,HEXAGON H	2
8	PAOZZ	19207	8343436	PIN,LOCK PIN,LOCK	1
9	PAOZZ	19207	12476152	ASSEMBLY, HANDLE, CRANK	1

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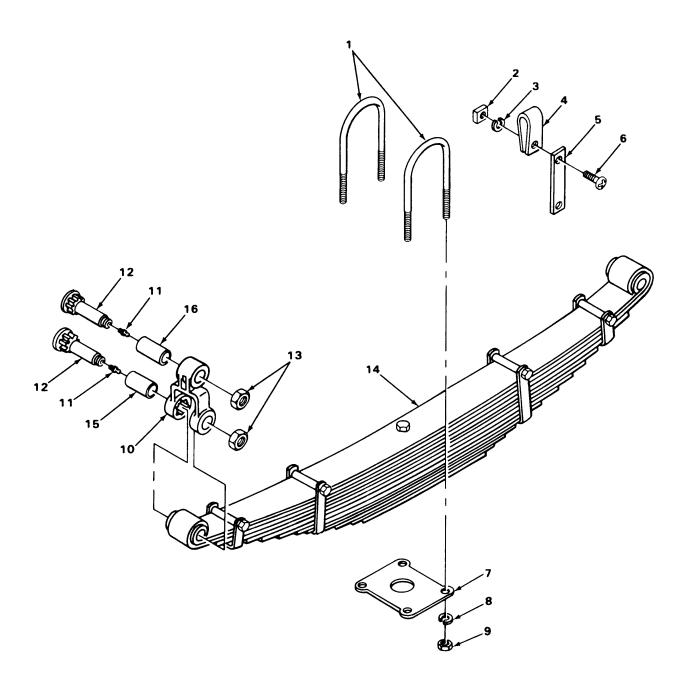


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FIGURE 21. STEP JACK ASSEMBLY.

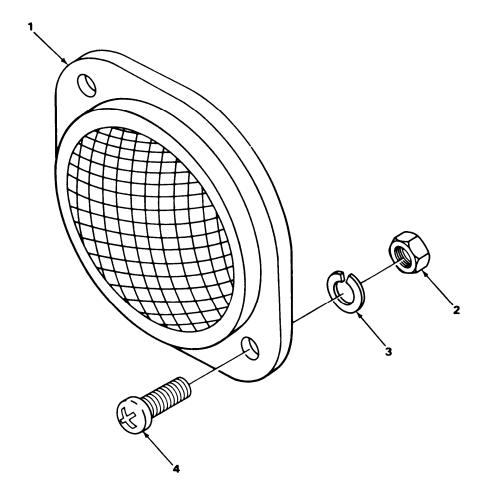
SECTION (1)	N II (2)	(3)	TM9-2330-205-14&P (4)	(5)	(6)
ITEM	SMR	(-)	PART		(-,
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				1507 LANDING GEAR AND LEVELING JACKS FIG. 21. STEP JACK ASSEMBLY	
1	PAOFF	19207	8699545	JACK, LEVELING-SUPPO	2
2	PAOZZ	19207	7392852	BOLT, MACHINE	1
3	PAFZZ	19207	7392808	PIN, SHOULDER, HEADLE	1
4	XAFZZ	19207	8699546	STEP	1
5	PAOZZ	96906	MS24665-285	PIN, COTTER	1
6	PAOZZ	81348	FF8571TYPEA	NUT, CASTELLATED, HEX	1
7	XDFZZ	19207	8699535	TUBE, ASSEMBLY	1
8	PFFZZ	19207	7392850	SPRINGX	1
9	PAFZZ	96906	MS24665-285	PIN, COTTER	1
10	PFFZZ	96906	MS51967-11	NUT, PLAIN, HEXAGON	1
11	XDFZZ	19207	8699536	PAD ASSEMBLY	1
12	PAFZZ	19207	7392851	BOLT, MACHINE	1
13	PAFZZ	19207	8699580	LATCH, JACK ASSEMBLY	1
14	PFFZZ	19207	7392809	SPRINGX	1
15	PAFZZ	19207	7392849	LATCH, JACK	1
16	PAFZZ	96906	MS35743-3	RIVET, SOLID	1
17	PAFZZ	96906	MS35207-277	SCREW, MACHINE	2





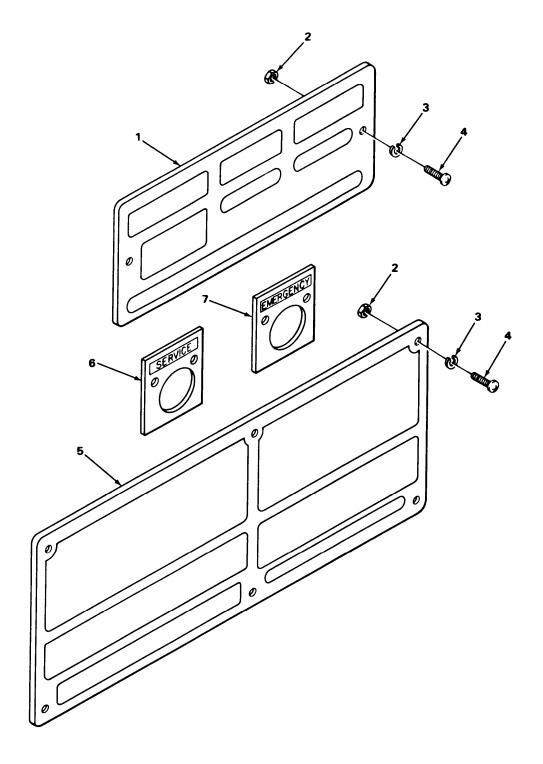
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SECTION (1)	(2)	(3)	TM9-2330-205-14&P	(5)	(6)
ITEM NO	SMR CODE	FSCM	PART NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 16 SPRINGS AND SHOCK ABSORBERS 1601 SPRINGS FIG. 22. SPRING ASSEMBLY	
1	PAOZZ	19207	7392813	BOLT,O	4
1 2	XDOZZ	81348	FFN836GPCTYPE1ST LE31-4-2ONUTPLAI	NUT, PLAIN, SQUARE	2
3	PAOZZ	96906	MS35338-44	WASHER, LOCK	2
4	PAOZZ	96906	MS21333-37	CLAMP, LOOP	2 2 2
5	XDOZZ	19207	8699504	BRACKET	2
6	PAOZZ	96906	MS35206-281	SCREW, MACHINE	2 2 8
7	XDOZZ	19207	7392811	PLATE	2
8	PAOZZ	96906	MS35338-51	WASHER, LOCK	8
9	PAOZZ	19207	7411041	NUT, PLAIN, HEXAGON	8
10	PAOZZ	19207	7392812-1	SHACKLE, LEAF SPRING	2
11	PAOZZ	96906	MS15003-1	FITTING, LUBRICATION	6
12	PAOZZ	19207	7392817	BOLT, SHACKLE	6
13	PFOZZ	96906	MS21083N14	NUT, SELF-LOCKING, HE	6
14	PAOZZ	19207	7392819	SPRING ASSEMBLY, LEA WITH BUSHINGS	2
15		19207	542048	BEARING, SLEEVE	2
16	PAOZZ	19207	542048	BEARING, SLEEVE	2



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SECTION (1) ITEM	N II (2) SMR	(3)	TM9-2330-205-14&P (4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 22 BODY AND ACCESSORY ITEMS 2202 ACCESSORY ITEMS FIG. 23. REFLECTORS	
1 1 2 3 4	PAOZZ PAOZZ PFOZZ PAOZZ PAOZZ	96906 96906 96906 96906 96906	MS35387-1 MS35387-2 MS51967-2 MS35338-44 MS35206-281	REFLECTOR, INDICATIN RED REFLECTOR, INDICATIN AMBER NUT, PLAIN, HEXAGON WASHER, LOCK SCREW, MACHINE	4 2 12 12 12



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FIGURE 24. IDENTIFICATION PLATES.

SECTION II		TM9-2330-205-14&P			
(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				2210 DATA AND INSTRUCTION PLATES	
				FIG. 24. IDENTIFICATION PLATES	
1	PAOZZ	19207	7979373	PLATE, IDENTIFICATIO	1
2	PAOZZ	96906	MS35649-202	NUT,PLAIN,HEXAGON	8
3	PAOZZ	94135	43W6335-40	WASHER,LOCK	8
4	PAOZZ	96906	MS35206-263	SCREW,MACHINE	8
5	PAOZZ	19207	8742396-1	PLATE, IDENTIFICATIO	1
				WEIGHT AND DEMENSION	
5	PAOZZ	19207	12331775	PLATE,IDENTIFICATIO	1
				TIEDOWN AND LIFTING	
6	PAOZZ	96906	MS53007-1	PLATE, IDENTIFICATIO SERVICE	1
7	PAOZZ	96906	MS53007-2	PLATE, IDENTIFICATIO EMERGENCY	1

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SECTION (1) ITEM NO	(2) SMR	(3) FSCM	TM9-2330-205-14&P (4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC) GROUP 94 KITS 9401 KITS	(6) QTY
_	PAOZZ		10130 7550526	PARTS KIT, FLUID PRE FILTER ELEMENT, FLUI(1) 15-7 GASKET (1) 15-4 TOOL KIT, ELECTRICAL CONTACT, ELECTRICAL (6) 6-2 CONTACT, ELECTRICAL (6) 5-2 INSULATOR, BUSHING (7) 5-6 SHELL, ELECTRICAL CO(6) 6-4 SHELL, ELECTRICAL CO(6) 6-5 SHELL, ELECTRICAL CO(6) 5-4 SHELL, ELECTRICAL CO(6) 5-5 TERMINAL ASSEMBLY (7) 5-7 WASHER, SLOTTED (6) 6-3 WASHER, SLOTTED (6) 5-3	1

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5315-00-005-0442	21	5	5305-00-269-3240	17	24
	21	9	2530-00-200-1286	7	1
5320-00-011-9951	9	11	9905-00-202-3639	23	1
3323 33 311 3331	9	38	2530-00-204-4800	10	5
5310-00-013-4551	12	1		10	8
6240-00-019-0877	1	5	9905-00-205-2795	23	1
	2	4	4730-00-221-2136	15	2
	3	7	5310-00-225-6993	20	6
6240-00-019-3093	3	5	5306-00-225-8496	11	12
2530-00-021-2366	16	1	5306-00-225-9084	1	8
5310-00-021-9760	13	14	5306-00-225-9088	14	2
	17A	2	5306-00-225-9089	13	8
5310-00-044-6284	19	5	5306-00-226-4829	8	7
6240-00-044-6914	2	5	4010-00-228-9977	20	4
	3	6	5330-00-246-8223	17A	6
5310-00-045-3299	4	11	4730-00-249-3885	13	11
2640-00-050-1229	18	4		18A	1
4730-00-050-4208	22	11	5305-00-267-8974	9	54
5999-00-057-2929	5	2	5305-00-269-2803	9	46
	6	2		17A	21
2640-00-060-3550	18	5		17	23
5310-00-061-1258	3	2	5305-00-269-2807	9	65
4730-00-065-0718	10	9	5305-00-269-3208	3	1
4730-00-069-1186	13	15	5305-00-269-3236	13	2
4730-00-069-1187	13	16	5305-00-269-3240	17A	22
2530-00-026-0265	17	2	5305-00-269-3250	13	3
2530-00-074-2357	9	7	5310-00-269-4040	19	2
5310-00-080-6004	17A	15		19	6
5310-00-080-6004	17	17	5365-00-274-4544	12	10
5310-00-087-4652	8	5	5310-00-274-8710	24	3
5310-00-088-0553	13	28	5340-00-275-6042	4	1
3110-00-100-5951	17A	9	5310-00-275-6635	11	4
5305-00-115-9526	2	8		12	11
4730-00-142-3076	13	25	4730-00-278-8886	12	4
3110-00-143-7586	17A	10	9905-00-282-7489	24	1
3040-00-150-7127	9	7	5340-00-282-7515	22	4
	18A	2	5340-00-282-7519	12	14
2530-00-159-8755	9	27	5330-00-285-5123	15	4
2530-00-159-8756	9	31	2610-00-262-8677	18	1
5310-00-167-0721	9	17	5340-00-286-2494	13	1
2510-00-177-7806	19	4	4730-00-289-0051	13	6
3110-00-100-5951	17	11	4730-00-289-0155	16	6
3110-00-143-7586	17	12	2530-00-293-5139	14	1
2540-00-177-8119	19	4	5330-00-246-8223	17	8
	20	5	5330-00-297-7106	2	3
5340-00-178-1441	14	6	5310-00-314-0764	9	6
6220-00-179-4324	3	9		9	42
2640-00-158-5617	18	2	5310-00-314-0765	9	5
				9	43
2530-00-192-8928	14	9	2590-00-317-3137	21	1

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NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5310-00-322-7260	9	4	2590-00-611-7883	6	12
0010 00 022 7200	9	44	5306-00-613-2011	22	1
5315-00-322-7261	9	3	2510-00-613-2012	22	12
3313-00-322-7201	9	40	2510-00-613-2012	22	14
2040 00 220 2262	8	1	2310-00-013-2013		1
3040-00-330-3262	o 13	1 29		20	•
4730-00-335-4728	_	_	5000 00 00E 4700	47	0.5
5306-00-335-4768	17A	23	5306-00-335-4768	17	25
4820-00-350-6749	16	5		17	7
2530-00-359-1162	17	4	0500 00 044 4454	17	21
5306-00-383-4957	17	<u>1</u> 9	2530-00-614-4454	17	5
5940-00-399-6676	4	7		17A	1
	5	7	5310-00-627-6128	3	2
	6	7		9	57
5310-00-407-9566	1	7		17A	19
	11	13	4710-00-630-9923	12	8
	14	10	2530-00-630-9924	12	6
2530-00-408-9177	8	8	4710-00-630-9925	12	13
4730-00-419-9425	11	3	4710-00-630-9926	12	5
	12	18	5310-00-637-9541	2	7
5310-00-427-0043	22	9		8	4
6220-00-433-5966	1	6		13	22
5330-00-462-0907	3	8		14	12
4730-00-463-1588	12	7		16	4
6220-00-500-0437	2	6			
4710-00-511-1692	10	1	5305-00-638-8920	8	2
2530-00-522-1157	9	47	5325-00-641-3859	5	13
2530-00-522-4183	9	12		6	13
	9	37		12	3
5360-00-535-1924	4	12	5310-00-641-9939	9	50
5310-00-550-3503	9	9		9	58
	9	35	3120-00-661-3885	22	15
4710-00-566-7133	11	8	0.20 00 00. 0000	22	16
4710-00-566-7134	11	6	6220-00-669-5623	2	1
5935-00-572-9180	5	4	5330-00-678-9047	1	4
0000 00 012 0100	6	4	4720-00-679-0923	13	17
2530-00-574-8356	13	7 27	4710-00-679-3167	13	26
4730-00-580-8457	15	3	4710-00-679-3168	13	20
5310-00-582-5965	4	15	4710-00-679-3169	13	7
3310-00-362-3903	5	9	4710-00-679-3170	13	12
		9	5310-00-679-3606	15	6
	6 9	9 49	1440-00-689-6160	10	4
				-	=
	12	2	2530-00-693-1007	9	10
	17A	5		9	33
	22	3	0500 00 000 4000	9	36
F040 00 F00 0744	23	3	2530-00-693-1029	17	4
5310-00-582-6714	13	13	2530-00-696-0351	KIT	1
5330-00-584-0265	14	7	5360-00-699-9018	9	45
5310-00-584-7888	22	8	5360-00-700-4429	14	8
4730-00-595-0083	13	18	5360-00-706-9054	15	5
2590-00-611-7883	5	12	9905-00-712-8378	24	5

SECTION IV TM9-2330-205-14&P

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5305-00-724-7225	19	3	2530-00-774-9403	9	33
4730-00-729-6437	11	5	6220-00-775-2384	1	3
	12	19	2530-00-777-3069	8	10
2530-00-730-7620	9	1	5315-00-778-4001	20	8
2530-00-730-7621	9	1	2530-00-791-0110	9	15
5310-00-732-0558	14	13	2530-00-791-3259	9	15
5310-00-732-0559	8	11		9	20
	13	23	4710-00-791-8077	11	1
	17A	18	4710-00-791-8078	11	1
5306-00-733-9239	17	19	2530-00-794-9763	9	47
1095-01-172-9560	17A	11	2530-00-797-9295	15	1
2530-00-737-3260	11	10	2530-00-798-4812	9	28
5365-00-737-3354	9	55	2530-00-798-4824	9	24
2530-00-737-7783	14	4	5340-00-809-1500	4	13
2530-00-738-9061	17	3	4720-00-809-2750	10	3
5310-00-741-1028	19	4	5340-00-809-5127	5	14
2530-00-741-1078	13	5	3010 00 000 0121	6	14
2940-00-741-1081	15	7		•	
5310-00-741-1378	17A	8	5315-00-815-8840	8	6
5310-00-741-1379	17A	7		•	•
2530-00-741-1425	17A	13	5935-00-833-8561	4	5
5330-00-741-1429	17A	12		5	5
5365-00-741-1433	17A	20		6	5
5306-00-741-1760	9	32	5970-00-833-8562	4	6
2530-00-741-2050	9	14		5	6
2530-00-741-2065	11	9		6	6
2530-00-741-2068	9	53	5310-00-833-8567	5	3
5310-00-741-2088	11	2	00.10 00 000 000.	6	3
33.3 33 2333	12	9	5310-00-835-2037	12	16
5365-00-741-2103	9	51	5315-00-842-3044	8	13
2530-00-741-2104	9	18	0010 00 042 0044	Ü	
5315-00-741-2106	9	52	6220-00-846-9745	1	1
5310-00-741-2120	9	19	4820-00-849-1220	13	24
2530-00-741-3231	17A	16	5315-00-849-9854	19	3
2530-00-741-5748	15	8	0010 00 010 0001		·
9905-00-752-4649	4	9	5310-00-853-9335	9	16
6220-00-752-6020	2	2	4730-00-854-6931	12	12
5310-00-761-6882	4	_ 16	2590-00-860-0538	4	3
0010 00 101 0002	5	8	2590-00-866-5845	5	1
	6	8	5180-00-876-9336	KIT	2
	23	2	5310-00-880-2004	17	1
15305-00-764-0070	1	2	5310-00-880-2005	17	1
2530-00-770-9149	9	<u>-</u> 25	5310-00-880-7746	14	1
2330-00-110-3143	9	30	5310-00-880-8189	21	10
2530-00-770-9150	9	29	5306-00-893-0549	21	2
2530-00-770-9151	9	26	3300 00 030 0043		_
4730-00-773-2163	10	7			
4720-00-774-4040	12	20	5365-00-899-6723	8	3
2530-00-774-9401	9	2	5310-00-903-3993	9	8
2530-00-774-9401	9	2	3010 00 303-3333	9	34
2000-00-114-3402	9 17	20	3040-00-735-5316	9 17	13
2530-00-741-3231	17	18	5310-00-741-1378	17	10
5330-00-741-1429	17	14	5310-00-741-1379	17	9
5365-00-741-1429	17	22	2530-00-741-1379	17 17	9 15
JJUJ-UU-7 4 1- 1433	17	~~	2000-00-741-1420	17	13

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NATIONAL STOCK NUMBER INDEX

	NATIONAL	310CK NOW	BER INDEX		
STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
4730-00-908-3195	10	2			
5340-00-921-5217	21	15			
5360-00-921-5219	21	14			
5306-00-921-5220	21	12			
5360-00-921-5221	21	8			
5315-00-921-5222	19	5			
5315-00-921-5223	21	3			
3040-00-921-5224	21	13			
5310-00-924-4218	9	48			
5310-00-934-9757	4	10			
5310-00-934-9758	24	2			
5305-00-939-0608	16	2			
5310-00-942-5183	22	13			
5310-00-950-0039	13	21			
	16	3			
5305-00-952-0760	21	17			
2530-00-973-2355	9	41			
2530-00-973-2356	9	41			
5340-00-977-0815	13	4			
5310-00-982-4908	12	17			
5305-00-984-6193	4	2			
5305-00-984-6210	24	4			
5340-00-985-0823	8	12			
2530-00-987-2565	11	11			
4730-00-987-9073	13	19			
5305-00-988-1723	17A	6			
5305-00-988-1723	17	6			
5305-00-988-1725	4	14			
	5	11			
	6	11			
	12	15			
	22	6 4			
2520 00 004 4242	23				
2530-00-991-4342 1440-00-994-8975	11 9	11 21			
4030-00-999-4048	20	3			
2540-00-999-5584	19	6			
9905-00-999-7369	24	7			
9905-00-999-7370	24	6			
5320-01-014-8964	21	16			
2590-01-034-0797	20	2			
5340-01-041-5052	4	4			
2510-01-048-3785	22	10			
2510-01-067-4717	3	4			
2530-01-083-5641	9	20			
6220-01-093-4439	3	3			
5330-01-094-5104	10	6			
5340-01-141-4814	14	3			
1095-01-162-0352	14	5			
2590-01-167-1827	6	1			
5340-01-189-6405	13	9			

		DARTHUMBER INDEV		
E0014	DADTAUMDED	PART NUMBER INDEX	5 0	
FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
16662	AC2569	4730-00-069-1186	13	15
78500	A1-3236M1261	2530-00-791-3259	9	15
70300	A1-3230W1201	2550-00-791-5259	9	20
22075	A200220	2520 00 202 5420	9 14	
23075	A298320	2530-00-293-5139	14	1
23705	A298322	4710-00-511-1692	-	1
23705	A298408	4720-00-679-0923	13	17
23705	A298748	2530-00-741-1078	13	5
23705	A298749	2530-00-797-9295	15	1
78500	A3236M1261	2530-00-730-7620	9	1
78500	A3236N1262	2530-00-730-7621	9	1
18990	BG26332		18	3
63477	FC13927E		11	7
63477	FC14257	2530-00-741-2104	9	18
63477	FC22219	2530-00-770-9149	9	25
			9	30
63477	FC22220	2530-00-770-9150	9	29
63477	FC22221	2530-00-770-9151	9	26
63477	FD13346	4710-00-791-8078	11	1
63477	FD13347	4710-00-791-8077	11	1
63477	FD17762	2530-00-074-2357	9	7
63477	FE14240	2530-00-204-4800	10	5
			10	8
63477	FE17748	2530-00-774-9403	9	33
63477	FE17759	2530-00-774-9401	9	2
63477	FE17760	2530-00-774-9402	9	2
63477	FE19580	2530-00-791-0110	9	15
81348	FFB571TYPEA		21	6
81348	FFN836GPCTYPE1ST			
	LE31-4-20NUTPLAI		22	2
63477	F12088	5315-00-741-2106	9	52
74405	F1567-3-1	4710-00-630-9926	12	5
74405	F1567-3-2	4710-00-630-9925	12	13
74405	F1567-3-3	2530-00-630-9924	12	6
74405	F1567-3-4	4710-00-630-9923	12	8
63477	F17751	2530-00-973-2356	9	41
63477	F17758	5315-00-322-7261	9	3
			9	40
63477	F17764	2530-00-798-4824	9	24
63477	F19223	2530-00-693-1007	9	10
			9	33
			9	36
63477	F19581	2530-00-522-1157	9	47
63477	F19582	2530-00-794-9763	9	47
63477	F19635	2530-00-991-4342	11	11
63477	F19636	2530-00-987-2565	11	11
63477	F6222	4720-00-774-4040	12	20
63477	F6783	5310-00-641-9939	9	50
			9	58
63477	F9556	2530-00-741-2050	9	14
96906	MS15003-1	4730-00-050-4208	22	11
02686	129376		17	1
7J015	1050110		17	2
96906	MS51946-2		17	17

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		DADTAH MADED INDEV		
FSCM	DADT NII IMDED	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
FSCIVI	PART NUMBER	STOCK NUMBER	ПG.	I I EIVI
96906	MS15570-1251	6240-00-019-0877	1	5
90900	NIS 13370-1231	0240-00-019-0077	2	4
			3	7
96906	MS15570-623	6240-00-019-3093	3	5
96906	MS16536-175	5320-00-011-9951	9	11
30300	IVIS 10330-173	3320-00-011-9931	9	38
96906	MS18153-61	5305-00-939-0608	9 16	36 2
	MS18154-58	5305-00-939-0608	2	8
96906 96906	MS19081-112	3110-00-100-5951	2 17A	9
96906	MS19081-112 MS19081-112	3110-00-100-5951	17 A 17	9 11
			17 15	2
96906 96906	MS20913-1S MS21044N5	4730-00-221-2136 5310-00-088-0553	13	28
96906	MS21044N6	5310-00-950-053	13	20 21
90900	WI321044N0	5510-00-950-0059	16	3
96906	MS21045-6	5310-00-982-4908	12	ა 17
96906	MS21083N14	5310-00-942-5183 5340-00-809-1500	22 4	13 13
96906	MS21333-107		•	_
96906	MS21333-34	5340-00-282-7519	12	14
96906	MS21333-36	5340-00-286-2494	13	1
96906	MS21333-37	5340-00-282-7515	22	4
96906	MS21333-38	5340-00-809-5127	5	14
00000	11004005 000	5045 00 040 0044	6	14
96906	MS24665-283	5315-00-842-3044	8	13
96906	MS24665-285	5315-00-005-0442	21	5
00000	11004005 400	5045 00 040 0054	21	9
96906	MS24665-498	5315-00-849-9854	19	3
96906	MS25036-54		4	8
96906	MS27148-2	5999-00-057-2929	5	2
00000	M007400 44	5040 00 000 0004	6	2
96906	MS27183-14	5310-00-080-6004	17A	15
96906	MS27183-14	5310-00-080-6004	17	17
96906	MS28775-012	5330-00-584-0265	14	7
96906	MS35206-245	5305-00-984-6193	4	2
96906	MS35206-263	5305-00-984-6210	24	4
96906	MS35206-279	5305-00-988-1723	17A	4
96906	MS35206-279	5305-00-988-1723	17	6
96906	MS35206-281	5305-00-988-1725	4	14
			5	11
			6	11
			12	15
			22	6
			23	4
96906	MS35207-277	5305-00-952-0760	21	17
96906	MS35333-41	5310-00-167-0721	9	17
96906	MS35333-49	5310-00-582-6714	13	13
96906	MS35335-35	5310-00-627-6128	3	2
			9	57
			17A	19
00000	MODERNE OF	5340 00 FFC 2522	17	21
96906	MS35335-36	5310-00-550-3503	9	9
			9	35

FSCM	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
96906	MS35338-42	5310-00-045-3299	4	11
96906	MS35338-44	5310-00-582-5965	4	15
			5	9
			6	9
			9	49
			12	2
			17A	5
			17	7
			22	3
			23	3
96906	MS35338-45	5310-00-407-9566	1	7
			11	13
			14	10
96906	MS35338-46	5310-00-637-9541	8	4
			13	22
			14	12
			16	4
96906	MS35338-51	5310-00-584-7888	22	8
96906	MS35387-1	9905-00-205-2795	23	1
96906	MS35387-2	9905-00-202-3639	23	1
96906	MS35478-1683	6240-00-044-6914	2	5
			3	6
96906	MS35649-202	5310-00-934-9758	24	2
96906	MS35649-282	5310-00-934-9757	4	10
96906	MS35691-13	5310-00-853-9335	9	16
96906	MS35691-53	5310-00-835-2037	12	16
96906	MS35743-3	5320-01-014-8964	21	16
96906	MS35746-1	4730-00-595-0083	13	18
96906	MS35782-5	4820-00-849-1220	13	24
96906	MS35810-4	5315-00-815-8840	8	6
96906	MS35812-4	5340-00-985-0823	8	12
96906	MS35842-10	4730-00-908-3195	10	2
96906	MS39133-2-B	4730-00-987-9073	13	19
96906	MS39179-9	4730-00-142-3076	13	25
96906	MS39182-3	4730-00-069-1187	13	16
96906	MS39182-5	4730-00-289-0155	16	6
96906	MS39182-6	4730-00-289-0051	13	6
96906	MS45904-76 MS51302-1	5310-00-061-1258	3	2
96906		6220-00-846-9745	1 2	1 1
96906	MS51329-1	6220-00-669-5623 2540-00-999-5584		
96906 7J015	MS51339-3 1050111	2540-00-999-5564	19 18A	6 2
96906	MS51375-1	2640-00-060-3550	18A	5
96906	MS51375-1 MS51845-4	4730-00-249-3885	18	ว 11
96906	MS51877-4	4730-00-249-3665 4730-00-278-8886	12	4
96906	MS51977-4 MS51922-17	5310-00-087-4652	8	5
96906	MS51922-17 MS51922-33	5310-00-087-4652	0 20	6
96906	MS51922-49	5310-00-223-0393	19	2
30300	11100 1322-43	3313-00-203- 404 0	19	6
			19	J

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		PART NUMBER INDEX		
FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
96906	MS51946-1	5306-00-733-9239	17	19
96906	MS51946-2	5306-00-383-4957	17	19
96906	MS51959-46	5305-00-764-0070	1	2
96906	MS51967-11	5310-00-880-8189	21	10
96906	MS51967-2	5310-00-761-6882	4	16
			5	8
			6	8
			23	2
96906	MS51967-8	5310-00-732-0558	14	13
96906	MS51968-5	5310-00-880-7746	14	11
96906	MS51968-8	5310-00-732-0559	8	11
			13	23
			17A	18
			17	20
96906	MS51970-1	5310-00-924-4218	9	48
96906	MS51970-4	5310-00-903-3993	9	8
			9	34
96906	MS51983-3	5310-00-880-2004	17	1
96906	MS51983-4	5310-00-880-2005	17	1
96906	MS52125-2	6220-01-093-4439	3	3
96906	MS521301A204120	4720-00-809-2750	10	3
96906	MS53004-2	2530-00-021-2366	16	1
96906	MS53007-1	9905-00-999-7370	24	6
96906	MS53007-2	9905-00-999-7369	24	7
96906	MS53044-5	2530-00-026-0265	17	2
96906	MS53045-3	2530-00-738-9061	17	3
96906	MS53047-1	6220-00-500-0437	2	6
96906	MS53068-1	2530-00-693-1029	17	4
96906	MS53068-2	2530-00-359-1162	17	4
96906	MS53060-3	2530-00-777-3069	8	10
96906	MS87006-41	4030-00-999-4048	20	3
96906	MS90725-31	5306-00-225-8496	11	12
96906	MS90725-57	5305-00-269-3208	3	1
96906	MS90726-29	5306-00-225-9084	1	8
96906	MS90726-33	5306-00-225-9088	14	2
96906	MS90726-34	5306-00-225-9089	13	8
96906	MS90726-60	5305-00-269-2803	9	46
			17A	21
			17	23
96906	MS90726-64	5305-00-269-2807	9	56
96906	MS90726-8	5305-00-267-8974	9	54
96906	MS90727-60	5305-00-269-3236	13	2
96906	MS90727-64	5305-00-269-3240	17A	22
96906	MS90727-64	5305-00-269-3240	17	24
96906	MS90727-74	5305-00-269-3250	13	3
96906	MS90728-114	5305-00-071-2070	20	7
96906	MS90728-167	5305-00-724-7225	19	3
96906	MS90728-36	5306-00-226-4829	8	7
96906	MS90728-67	5305-00-638-8920	8	2
91340	M4X509	5330-00-285-5123	15	4
81349	M43436/1-1	9905-00-752-4649	4	9
40342	N-12970-A	2530-00-741-5748	15	8
80205	NAS1611-123	5330-01-094-5104	10	6
	-			

		PART NUMBER INDEX		
FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
40342	N12929	5360-00-535-1924	4	12
23705	N12971	2940-00-741-1081	15	7
40342	N12972	5310-00-679-3606	15	6
40342	N13008	5340-00-977-0815	13	4
40342	N3550	2530-00-574-8356	13	27
81348	G186.10R22.5		18A	1
81348	ZZ-T-381M/			
	GROUP 3/9.00-	2610-00-262-8677	18	1
	20/D/TBCC			-
17875	1DOAA	2640-00-050-1229	18	4
53335	10130	2530-00-696-0351	KIT	1
19207	10891263	2590-00-860-0538	4	3
19207	10910885	5330-00-246-8223	17A	6
19207	10910885	5330-00-246-8223	17	8
19207	10931736		13	10
19207	12461851-12		19	1
19207	11639519-2	5330-00-462-0907	3	8
19207	11639520	2510-01-067-4717	3	4
19207	11639535	6220-00-179-4324	3	9
19207	11652180	2590-01-167-1827	6	1
19207	117964	5325-00-641-3859	5	13
21450	120520		5	10
			6	10
02686	123917	2530-00-973-2355	9	41
73808	20R	2640-00-158-5617	18	2
23862	2275698	5365-00-741-1433	17A	20
23862	2275698	5365-00-741-1433	17	22
24617	2284031	2530-00-741-1425	17A	13
24617	2284031	2530-00-741-1425	17	15
12603	23E06	5310-00-637-9541	2	7
06853	235091	4730-00-580-8457	15	3
06853	235093	5360-00-706-9054	15	5
30612	24569D	5310-00-021-9760	13	14
92867	3100C21B180Y	3040-00-330-3262	8	1
10001	419908PC40		8	9
94135	43W6335-40	5310-00-274-8710	24	3
24617	446284	5310-00-044-6284	19	5
63477	5156653	4730-00-854-6931	12	12
79470	5167679	4730-00-463-1588	12	7
19207	5214539	5310-00-275-6635	11	4
			12	11
19207	5298653	5365-00-274-4544	12	10
19207	5303461	2530-00-408-9177	8	8
19207	542048	3120-00-661-3885	22	15
			22	16
19207	545033	5340-00-275-6042	4	1
73331	5942528	5330-00-678-9047	1	4
19204	6144454	2530-00-614-4454	17A	3
19204	6144454	2530-00-614-4454	17	5
19207	7064979		9	13
			9	39
19207	11682127-1	1095-01-172-9560	17A	11
19207	11682127-1	1095-01-172-9560	17	13
09386	67428E2	5310-00-655-9599	17A	14
09386	67428E2	5310-00-655-9599	17	16

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		PART NUMBER INDEX		
FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
19207	7263713	2530-00-200-1286	7	1
19207	7320658	5330-00-297-7106	2	3
19207	7373260	2530-00-737-3260	11	10
19207	7373354	5365-00-737-3354	9	55
19207	7377783	2530-00-737-7783	14	4
19207	7392808	5315-00-921-5223	21	3
19207	7392809	5360-00-921-5219	21	14
19207	7392811		22	7
19207	7392812-1	2510-01-048-3785	22	10
19207	7392813	5306-00-613-2011	22	1
19207	7392817	2510-00-613-2012	22	12
19207	7392819	2510-00-613-2013	22	14
19207	12476168		20	1
19207	MS87006-41	4030-00-999-4048	20	3
19207	7392849	5340-00-921-5217	21	15
19207	7392850	5360-00-921-5221	21	8
19207	7392851	5306-00-921-5220	21	12
19207	7392852	5306-00-893-0549	21	2
19207	12476152		20	9
19207	7411028	5310-00-741-1028	19	4
19207	7411041	5310-00-427-0043	22	9
19207	7411377	3110-00-143-7586	17A	10
19207	7411377	3110-00-143-7586	17	12
19207	7411378	5310-00-741-1378	17A	8
19207	7411378	5310-00-741-1378	17	10
19207	7411379	5310-00-741-1379	17A	7
19207	7411379	5310-00-741-1379	17	9
19207	7411429	5330-00-741-1429	17A	12
19207	7411429	5330-00-741-1429	17	14
19207	7411760	5306-00-741-1760	9	32
19207	7412068	2530-00-741-2068	9	53
63477	7412079	4730-00-729-6437	11	5
			12	19
19207	7412088	5310-00-741-2088	11	2
			12	9
19207	7412103	5365-00-741-2103	9	51
19207	7412120	5310-00-741-2120	9	19
19207	7413231	2530-00-741-3231	17A	16
19207	7413231	2530-00-741-3231	17	18
19207	7526020	6220-00-752-6020	2	2
19204	7550526	5180-00-876-9336	KIT	2
19207	7706441	5310-00-013-4551	12	1
19207	7745464	4730-00-419-9425	11	3
			12	18
19207	7979297	4820-00-350-6749	16	5

		PART NUMBER INDEX		
FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
19207	7979373	9905-00-282-7489	24	1
19207	7979599	1095-01-162-0352	14	5
19207	7979602	5340-01-141-4814	14	3
97554	7979605	2530-00-192-8928	14	9
19207	7979608	5360-00-700-4429	14	8
19207	7979610	5340-00-178-1441 4730-00-065-0718	14	6
19207	7979690		10	9
63477	7979691	4730-00-773-2163	10	7
19207 19207	7979699	1440-00-689-6160	10 13	4
	7979851	5340-01-189-6405	-	9
19207	820070	4010-00-228-9977	20	4
40342	8330281	4730-00-335-4728	13	29
19207	8338561	5935-00-833-8561	4 5	5
			5 6	5 5
10207	0220562	5970-00-833-8562	4	
19207	8338562	5970-00-653-6562	4 5	6 6
			6	
19207	8338564	5940-00-399-6676	4	6 7
19201	0330304	3940-00-399-0070	5	7
			6	7
19207	8338566	5935-00-572-9180	5	4
19201	0330300	3933-00-372-9100	6	4
19207	8338567	5310-00-833-8567	5	3
19201	0330307	3310-00-033-0307	6	3
19207	8343436	5315-00-778-4001	20	8
19207	8347216	5340-01-041-5052	4	4
19207	8699500	5365-00-899-6723	8	3
19207	8699504	3303-00-033-0723	22	5
19207	8699510	4710-00-679-3168	13	20
19207	8699511	4710-00-679-3169	13	7
19207	8699512	4710-00-679-3170	13	12
19207	8699513	4710-00-679-3167	13	26
19207	8699517	5315-00-921-5222	19	5
19207	8699518	2540-00-177-8119	19	4
19207	8699535		21	7
19207	8699536		21	11
19207	8699545	2590-00-317-3137	21	1
19207	8699546		21	4
19207	8699580	3040-00-921-5224	21	13
19207	8712118		9	23
19207	8712119		9	22
19207	7392875	5340-01-034-0797	20	2
18876	8720025	5306-00-335-4768	17A	23
18876	8720025	5306-00-335-4768	17	25
19207	8720331	1440-00-994-8975	9	21
19207	8720515	5360-00-699-9018	9	45
19207	8720517	2530-00-522-4183	9	12
			9	37
18876	8733897	2530-00-798-4812	9	28
19207	8733908	2530-00-159-8755	9	27
19207	12476134		20	5

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SECTION IV TM9-2330-205-14&P

CROSS-REFERENCE INDEXES

		PART NUMBER INDEX		
FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
19207	8733909	2530-00-159-8756	9	31
19207	8733920	4710-00-566-7133	11	8
19207	8733922	4710-00-566-7134	11	6
19207	8733926	3040-00-150-7127	9	7
19207	8733928	2530-00-741-2065	11	9
19207	8733933	2530-01-083-5641	9	20
19207	8733935	5310-00-314-0764	9	6
			9	42
19207	8733936	5310-00-314-0765	9	5
			9	43
19207	8733937	5310-00-322-7260	9	4
			9	44
19207	8741646	6220-00-775-2384	1	3
19207	8741650	6220-00-4339-5966	1	6
19207	8742385	2510-00-177-7806	19	4
19207	8742396-1		24	5
19207	12331775		24	5
19207	8742401	2590-00-866-5845	5	1
19207	8747908	2590-00-611-7883	5	12
			6	12

FIG.	ITEM	FIGURE AND ITEM NUMBER STOCK NUMBER	INDEX FSCM	PART NUMBER
KIT	1	2530-00-696-0351	53335	10130
KIT	2	5180-00-876-9336	19204	7550526
1	1	6220-00-846-9745	96906	MS51302-1
1	2	5305-00-764-0070	96906	MS51959-46
1	3	6220-00-775-2384	19207	8741646
1	4	5330-00-678-9047	73331	5942528
1	5	6240-00-019-0877	96906	MS15570-1251
1	6	6220-00-433-5966	19207	8741650
1	7	5310-00-407-9566	96906	MS35338-45
1	8	5306-00-225-9084	96906	MS90726-29
2	1	6220-00-669-5623		MS51329-1
2	2	6220-00-669-5623	96906 19207	MS51329-1 7526020
2	3	5330-00-297-7106	19207	7320658
2	4	6240-00-019-0877	96906	MS15570-1251
2	5	6240-00-044-6914	96906	MS35478-1683
2	6	6220-00-500-0437	96906	MS53047-1
2	7	5310-00-637-9541	12603	23E06
2	8	5305-00-115-9526	96906	MS18154-58
3	1	5305-00-269-3208	96906	MS90725-57
3	2	5310-00-061-1258	96906	MS45904-76
3	2	5310-00-627-6128	96906	MS35335-35
3	3	6220-01-093-4439	96906	MS52125-2
3	4	2510-01-067-4717	19207	11639520
3	5	6240-00-019-3093	96906	MS15570-623
3	6	6240-00-044-6914	96906	MS35478-1683
3	7	6240-00-019-0877	96906	MS15570-1251
3	8	5330-00-462-0907	19207	11639519-2
3	9	6220-00-179-4324	19207	11639535
4	1	5340-00-275-6042	19207	545033
4	2	5305-00-984-6193	96906	MS35206-245
4	3	2590-00-860-0538	19207	10891263
4	4	5340-01-041-5052	19207	8347216
4	5	5935-00-833-8561	19207	8338561
4	6	5970-00-833-8562	19207	8338562
4	7	5940-00-399-6676	19207	8338564
4	8		96906	MS25036-54
4	9	9905-00-752-4649	81349	M43436/1-1
4	10	5310-00-934-9757	96906	MS35649-282
4	11	5310-00-045-3299	96906	MS35338-42
4	12	5360-00-535-1924	40342	N12929
4	13	5340-00-809-1500	96906	MS21333-107
4	14	5305-00-988-1725	96906	MS35206-281
4	15	5310-00-582-5965	96906	MS35338-44
4	16	5310-00-761-6882	96906	MS51967-2
5	1	2590-00-866-5845	19207	8742401
5	2	5999-00-057-2929	96906	MS27148-2
5	3	5310-00-833-8567	19207	8338567
5	4	5935-00-572-9180	19207	8338566
5	5	5935-00-833-8561	19207	8338561
5	6	5970-00-833-8562	19207	8338562
5	7	5940-00-399-6676	19207	8338564

		FIGURE AND ITEM NUMBER	TNDEX	
FIG.	ITEM	STOCK NUMBER	FSCM	PART NUMBER
	8	5310-00-761-6882	96906	MS51967-2
	9	5310-00-582-5965	96906	MS35338-44
	10		21450	120520
	11	5305-00-988-1725	96906	MS35206-281
	12	2590-00-611-7883	19207	8747908
	13	5325-00-641-3859	19207	117964
	14	5340-00-809-5127	96906	MS21333-38
	1	2590-01-167-1827	19207	11652180
	2	5999-00-057-2929	96906	MS27148-2
	3	5310-00-833-8567	19207	8338567
	4	5935-00-572-9180	19207	8338566
	5	5935-00-833-8561	19207	8338561
	6	5970-00-833-8562	19207	8338562
	7	5940-00-399-6676	19207	8338564
	8	5310-00-761-6882	96906	MS51967-2
	9	5310-00-582-5965	96906	MS35338-44
	10	5205 00 000 1505	21450	120520
	11	5305-00-988-1725	96906	MS35206-281
	12	2590-00-611-7883	19207	8747908
	13 14	5325-00-641-3859	19207	117964
	14	5340-00-809-5127 2530-00-200-1286	96906 19207	MS21333-38 7263713
	1	3040-00-330-3262	92867	3100C21B180Y
	2	5305-00-638-8920	96906	MS90728-67
	3	5365-00-899-6723	19207	8699500
	4	5310-00-637-9541	96906	MS35338-46
	5	5310-00-087-4652	96906	MS51922-17
	6	5315-00-815-8840	96906	MS35810-4
	7	5306-00-226-4829	96906	MS90728-36
	8	2530-00-408-9177	19207	5303461
	9		10001	419908PC40
	10	2530-00-777-3069	96906	MS53060-3
	11	5310-00-732-0559	96906	MS51968-8
	12	5340-00-985-0823	96906	MS35812-4
	13	5315-00-842-3044	96906	MS24665-283
	1	2530-00-730-7620	78500	A3236M1261
	1	2530-00-730-7621	78500	A3236N1262
	2	2530-00-774-9401	63477	FE17759
	2	2530-00-774-9402	63477	FE17760
	3	5315-00-322-7261	63477	F17758
	4	5310-00-322-7260	19207	8733937
	5	5310-00-314-0765	19207	8733936
	6	5310-00-314-0764	19207	8733935 ED17763
	7	2530-00-074-2357	63477	FD17762
	7 8	3040-00-150-7127 5310-00-903-3993	19207 96906	8733926 MS51970-4
	9	5310-00-903-3993	96906	MS35335-36
	10	2530-00-693-1007	63477	F19223
	11	5320-00-033-1007	96906	MS16536-175
	12	2530-00-522-4183	19207	8720517
	13		19207	7064979
	-			

FIG.	ITEM	FIGURE AND ITEM NUMBER STOCK NUMBER	INDEX FSCM	PART NUMBER
9	14	2530-00-741-2050	63477	F9556
				FE19580
9	15	2530-00-791-0110	63477	A1-3236M1261
9 9	15	2530-00-791-3259	78500	
	16	5310-00-853-9335	96906	MS35691-13
9	17	5310-00-167-0721	96906	MS35333-41
9	18	2530-00-741-2104	63477	FC14257
9	19	5310-00-741-2120	19207	7412120
9 9	20	2530-00-791-3259	78500	A1-3236M1261
9	20	2530-01-083-5641	19207	8733933
	21	1440-00-994-8975	19207	8720331
9	22		19207	8712119
9	23	2520 00 700 4024	19207	8712118
9	24	2530-00-798-4824	63477	F17764
9	25	2530-00-770-9149	63477	FC22219
9 9	26	2530-00-770-9151	63477	FC22221
	27	2530-00-159-8755	19207	8733908
9	28	2530-00-798-4812	18876	8733897
9	29	2530-00-770-9150	63477	FC22220
9	30	2530-00-770-9149	63477	FC22219
9	31	2530-00-159-8756	19207	8733909
9	32	5306-00-741-1760	19207	7411760
9	33	2530-00-693-1007	63477	F19223
9	33	2530-00-774-9403	63477	FE17748
9	34	5310-00-903-3993	96906	MS51970-4
9	35	5310-00-550-3503	96906	MS35335-36
9	36	2530-00-693-1007	63477	F19223
9	37	2530-00-522-4183	19207	8720517
9	38	5320-00-011-9951	96906	MS16536-175
9	39	5315 00 300 F061	19207	7064979
9	40	5315-00-322-7261	63477	F17758
9	41	2530-00-973-2355	02686	123917
9	41	2530-00-973-2356	63477	F17751
9	42	5310-00-314-0764	19207	8733935
9	43	5310-00-314-0765	19207	8733936
9	44	5310-00-322-7260	19207	8733937
9	45	5360-00-699-9018	19207	8720515
9	46	5305-00-269-2803	96906	MS90726-60
9	47	2530-00-522-1157	63477	F19581
9	47	2530-00-794-9763	63477	F19582
9 9	48	5310-00-924-4218	96906	MS51970-1
	49 50	5310-00-582-5965	96906	MS35338-44
9		5310-00-641-9939	63477	F6783
9	51	5365-00-741-2103	19207	7412103
9	52	5315-00-741-2106	63477	F12088
9 9	53	2530-00-741-2068	19207	7412068
	54	5305-00-267-8974	96906	MS90726-8
9	55	5365-00-737-3354	19207	7373354
9	56	5305-00-269-2807	96906	MS90726-64
9	57	5310-00-627-6128	96906	MS35335-35
9	58	5310-00-641-9939	63477	F6783
10	1	4710-00-511-1692	23705	A298322

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FIG.	ITEM	FIGURE AND ITEM NUMBER STOCK NUMBER	INDEX FSCM	PART NUMBER
10	2	4730-00-908-3195	96906	MS35842-10
10	3	4720-00-809-2750	96906	MS521301A204120
10	4	1440-00-689-6160	19207	7979699
10	5	2530-00-204-4800	63477	FE14240
10	6	5330-01-094-5104	80205	NAS1611-123
10	7	4730-00-773-2163	63477	7979691
10	8	2530-00-204-4800	63477	FE14240
10	9	4730-00-065-0718	19207	7979690
11	1	4710-00-791-8077	63477	FD13347
11	1	4710-00-791-8078	63477	FD13346
11	2	5310-00-741-2088	19207	7412088
11	3	4730-00-419-9425	19207	7745464
11	4	5310-00-275-6635	19207	5214539
11	5	4730-00-729-6437	63477	7412079
11	6	4710-00-566-7134	19207	8733922
11	7		63477	FC13927E
11	8	4710-00-566-7133	19207	8733920
11	9	2530-00-741-2065	19207	8733928
11	10	2530-00-737-3260	19207	7373260
11	11	2530-00-987-2565	63477	F19636
11	11	2530-00-991-4342	63477	F19635
11	12	5306-00-225-8496	96906	MS90725-31
11	13	5310-00-407-9566	96906	MS35338-45
12	1	5310-00-013-4551	19207	7706441
12	2	5310-00-582-5965	96906	MS35338-44
12	3	5325-00-641-3859	19207	117964
12	4	4730-00-278-8886	96906	MS51877-4
12	5	4710-00-630-9926	74405	F1567-3-1
12	6	2530-00-630-9924	74405	F1567-3-3
12	7	4730-00-463-1588	79470	5167679
12	8	4710-00-630-9923	74405	F1567-3-4
12	9	5310-00-741-2088	19207	7412088
12	10	5365-00-274-4544	19207	5298653
12	11	5310-00-275-6635	19207	5214539
12	12	4730-00-854-6931	63477	5156653
12	13	4710-00-630-9925	74405	F1567-3-2
12	14	5340-00-282-7519	96906	MS21333-34
12	15	5305-00-988-1725	96906	MS35206-281
12	16	5310-00-835-2037	96906	MS35691-53
12	17	5310-00-982-4908	96906	MS21045-6
12	18	4730-00-419-9425	19207	7745464
12	19	4730-00-729-6437	63477	7412079
12 13	20 1	4720-00-774-4040 5340-00-286-2494	63477 96906	F6222 MS21333-36
13	2	5305-00-269-3236	96906	MS90727-60
13	3	5305-00-269-3250	96906	MS90727-74
13	4	5340-00-277-0815	40342	N13008
13	5	2530-00-741-1078	23705	A298748
13	6	4730-00-741-1078	96906	MS39182-6
13	7	4710-00-679-3169	19207	8699511
13	8	5306-00-225-9089	96906	MS90726-34
	S	3300 00 223 3003	20200	1.020720 31

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		FIGURE AND ITEM NUMBER IN	DEX	
FIG.	ITEM	STOCK NUMBER	FSCM	PART NUMBER
13	9	5340-01-189-6405	19207	7979851
13	10		19207	10931736
13	11	4730-00-249-3885	96906	MS51845-4
13	12	4710-00-679-3170	19207	8699512
13	13	5310-00-582-6714	96906	MS35333-49
13	14	5310-00-021-9760	30612	24569D
13	15	4730-00-069-1186	16662	AC2569
13	16	4730-00-069-1187	96906	MS39182-3
13	17	4720-00-679-0923	23705	A298408
13	18	4730-00-595-0083	96906	MS35746-1
13	19	4730-00-987-9073	96906	MS39133-2-B
13	20	4710-00-679-3168	19207	8699510
13	21	5310-00-950-0039	96906	MS21044N6
13	22	5310-00-637-9541	96906	MS35338-46
13	23	5310-00-732-0559	96906	MS51968-8
13	24	4820-00-849-1220	96906	MS35782-5
13	25	4730-00-142-3076	96906	MS39179-9
13	26	4710-00-679-3167	19207	8699513
13	27	2530-00-574-8356	40342	N3550
13	28	5310-00-088-0553	96906	MS21044N5
13	29	4730-00-335-4728	40342	8330281
14	1	2530-00-293-5139	23075	A298320
14	2	5306-00-225-9088	96906	MS90726-33
14	3	5340-01-141-4814	19207	7979602
14	4	2530-00-737-7783	19207	7377783
14	5	1095-01-162-0352	19207	7979599
14	6	5340-00-178-1441	19207	7979610
14	7	5330-00-584-0265	96906	MS28775-012
14	8	5360-00-700-4429	19207	7979608
14	9	2530-00-192-8928	97554	7979605
14	10	5310-00-407-9566	96906	MS35338-45
14	11	5310-00-880-7746	96906	MS51968-5
14	12	5310-00-637-9541	96906	MS35338-46
14	13	5310-00-732-0558	96906	MS51967-8
15	1	2530-00-797-9295	23705	A298749
15	2	4730-00-221-2136	96906	MS20913-1S
15	3	4730-00-580-8457	06853	235091
15	4	5330-00-285-5123	91340	M4X509
15	5	5360-00-706-9054	06853	235093
15	6	5310-00-679-3606	40342	N12972
15	7	2940-00-741-1081	23705	N12971
15	8	2530-00-741-5748	40342	N-12970-A
16	1	2530-00-021-2366	96906	MS53004-2
16	2	5305-00-939-0608	96906	MS18153-61
16	3	5310-00-950-0039	96906	MS21044N6
16	4	5310-00-637-9541	96906	MS35338-46
16	5	4820-00-350-6749	19207	7979297
16	6	4730-00-289-0155	96906	MS39182-5
17	1	5310-00-880-2004	96906	MS51983-3
17	1	5310-00-880-2005	96906	MS51983-4
17	2	2530-00-026-0265	96906	MS53044-5
17	3	2530-00-738-9061	96906	MS53045-3

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		FIGURE AND ITEM NUMBE		
FIG.	ITEM	STOCK NUMBER	FSCM	PART NUMBER
17	4	2530-00-359-1162	96906	MS53068-2
17	4	2530-00-693-1029	96906	MS53068-1
17	5	2530-00-614-4454	19204	6144454
17	6	5305-00-988-1723	96906	MS35206-279
17	7	5310-00-582-5965	96906	MS35338-44
17	8	5330-00-246-8223	19207	10910885
17	9	5310-00-741-1379	19207	7411379
17	10	5310-00-741-1378	19207	7411378
17	11	3110-00-100-5951	96906	MS19081-112
17	12	3110-00-100-3331	19207	7411377
17	13	3040-00-735-5316	19207	7263712
17	14	5330-00-741-1429	19207	7411429
17	15	2530-00-741-1425	24617	2284031
17	16	2530-00-741-1425	24017	2204031
17	17	5310-00-080-6004	96906	MS27183-14
17	18	2530-00-741-3231	19207	7413231
17 17	19	5306-00-383-4957	96906	MS51946-2
		5306-00-363-4957		
17 17	19 20	5310-00-732-0559	96906	MS51946-1
17 17	20 21		96906	MS51968-8 MS35335-35
		5310-00-627-6128	96906	
17 47	22	5365-00-741-1433 5305-00-269-2803	23862	2275698 MS00736 60
17	23		96906	MS90726-60
17 47	24	5305-00-269-3240	96906	MS90727-64
17	25	5306-00-335-4768	18876	8720025
17A	1		02686	129378
17A	2	0500 00 044 4454	7J015	1050110
17A	3	2530-00-614-4454	19204	6144454
17A	4	5305-00-988-1723	96906	MS35206-279
17A	5	5310-00-582-5965	96906	MS35338-44
17A	6	5330-00-246-8223	19207	10910885
17A	7	5310-00-741-1379	19207	7411379
17A	8	5310-00-741-1378	19207	7411378
17A	9	3110-00-100-5951	96906	MS19081-112
17A	10	3110-00-143-7586	19207	7411377
17A	11		19207	1682127-1
17A	12	5330-00-741-1429	19207	7411429
17A	13	2530-00-741-1425	24617	2284031
17A	14	5310-00-655-9599	09386	67428E2
17A	15	5310-00-080-6004	96906	MS27183-14
17A	16	2530-00-741-3231	19207	7413231
17A	17	5306-00-383-4957	96906	MS51946-2
17A	18	5310-00-732-0559	96906	MS51968-8
17A	19	5310-00-627-6128	96906	MS35335-35
17A	20	5365-00-741-1433	23862	2275698
17A	21	5305-00-269-2803	96906	MS90726-60
17A	22	5305-00-269-3240	96906	MS90727-64
17A	23	5306-00-335-4768	18876	8720025
18	1	2610-00-262-8677	81348	ZZ-T-381M/GROUP 3/9.00-20/O/TBCC
18	2	2640-00-158-5617	73808	20R
18	3	_	18990	BG26332
18	4	2640-00-050-1229	17875	100AA
18	5	2640-00-060-3550	96906	MS51375-1
18A	1		81348	G186.10R22.5
18A	2		7J015	1050111

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		FIGURE AND ITEM NUMBER IN	IDEX	
FIG.	ITEM	STOCK NUMBER	FSCM	PART NUMBER
19	1		19207	12461851-12
19	2	5310-00-269-4040	96906	MS51922-49
19	3	5305-00-724-7225	96906	MS90728-167
19	3	5315-00-849-9854	96906	MS24665-498
19	4	2510-00-177-7806	19207	8742385
19	4	2540-00-177-8119	19207	8699518
19	4	5310-00-741-1028	19207	7411028
19	5	5310-00-044-6284	24617	446284
19	5	5315-00-921-5222	19207	8699517
19	6	2540-00-999-5584	96906	MS51339-3
19	6	5310-00-269-4040	96906	MS51922-49
20	1		19207	12476168
20	2	2590-01-034-0797	19207	7392875
20	3	4030-00-999-4048	96906	MS87006-41
20	4	4010-00-228-9977	19207	820070
20	5		19207	12476134
20	6	5310-00-225-6993	96906	MS51922-33
20	7	5305-00-071-2070	96906	MS90728-114
20	8	5315-00-778-4001	19207	8343436
20	9		19207	12476152
21	1	2590-00-317-3137	19207	8699545
21	2	5306-00-893-0549	19207	7392852
21	3	5315-00-921-5223	19207	7392808
21	4		19207	8699546
21	5	5315-00-005-0442	96906	MS24665-285
21	6		81348	FFB571TYPEA
21	7		19207	8699535
21	8	5360-00-921-5221	19207	7392850
21	9	5315-00-005-0442	96906	MS24665-285
21	10	5310-00-880-8189	96906	MS51967-11
21	11		19207	8699536
21	12	5306-00-921-5220	19207	7392851
21	13	3040-00-921-5224	19207	8699580
21	14	5360-00-921-5219	19207	7392809
21	15	5340-00-921-5217	19207	7392849
21	16	5320-01-014-8964	96906	MS35743-3
21	17	5305-00-952-0760	96906	MS35207-277
22	1	5306-00-613-2011	19207	7392813
22	2		81348	FFN836GPCTYPE1ST
				LE31-4-20NUTPLAI
22	3	5310-00-582-5965	96906	MS35338-44
22	4	5340-00-282-7515	96906	MS21333-37
22	5		19207	8699504
22	6	5305-00-988-1725	96906	MS35206-281
22	7		19207	7392811
22	8	5310-00-584-7888	96906	MS35338-51
22	9	5310-00-427-0043	19207	7411041

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		FIGURE AND ITEM NUMBER INDEX			
FIG.	ITEM	STOCK NUMBER	FSCM	PART NUMBER	
22	10	2510-01-048-3785	19207	7392812-1	
22	11	4730-00-050-4208	96906	MS15003-1	
22	12	2510-00-613-2012	19207	7392817	
22	13	5310-00-942-5183	96906	MS21083N14	
22	14	2510-00-613-2013	19207	7392819	
22	15	3120-00-661-3885	19207	542048	
22	16	3120-00-661-3885	19207	542048	
23	1	9905-00-202-3639	96906	MS35387-2	
23	1	9905-00-205-2795	96906	MS35387-1	
23	2	5310-00-761-6882	96906	MS51967-2	
23	3	5310-00-582-5965	96906	MS35338-44	
23	4	5305-00-988-1725	96906	MS35206-281	
24	1	9905-00-282-7489	19207	7979373	
24	2	5310-00-934-9758	96906	MS35649-202	
24	3	5310-00-274-8710	94135	43W6335-40	
24	4	5305-00-984-6210	96906	MS35206-263	
24	5		19207	8742396-1	
24	5		19207	12331775	
24	6	9905-00-999-7370	96906	MS53007-1	
24	7	9905-00-999-7369	96906	MS53007-2	

Change 2 I-20

APPENDIX G

TORQUE LIMITS

SAE Grade Number	1 or 2	5	6 or 7	8
Quality of Material Capscrew Head Markings	Indeterminate	Minimum Commercial	Medium Commercial	Best Commercial
NOTE				

Head marking may vary with different manufacturers.

	Body Size - (Thread)	Torque Ft Lb (N.m)	Torque Ft Lb (N.m)	Torque Ft Lb (N.m)	Torque Ft Lb (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	28 (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 (129)	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 (217)	395 (536)	440 (597)	605 (820)
	14	175 (237)	435 (590)		675 (915)
1	8	235 (319)	590 (800)	660 (895)	910 (1234)
	14	250 (339)	660 (895)		990 (1342)

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.

NOTE

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

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To be distributed in accordance with DA Form 12-39, Technical Manuals and Technical Manuals Parts List requirements for Trailers, Generator, 2 1/2 Ton, M200A1.

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THE METRIC SYSTEM AND EQUIVALENTS

LINEAR MEASURE

- 1 Centimeter=10 Millimeters=0.01 Meters=0.3937 Inches
- 1 Meter=100 Centimeters=1000 Millimeters=39.37 Inches
- 1 Kilometer=1000 Meters=0.621 Miles

- 1 Gram=0.001 Kilograms=1000 Milligrams=0.035 Ounces
- 1 Kilogram=1000 Grams=2.2 Lb
- 1 Metric Ton=1000 Kilograms=1 Megagram=1.1 Short Tons

TO CHANGE

LIQUID MEASURE

- 1 Milliliter=0.001 Liters=0.0338 Fluid Ounces
- 1 Liter=1000 Milliliters=33.82 Fluid Ounces

SQUARE MEASURE

- 1 Sq Centimeter=100 Sq Millimeters=0.155 Sq Inches
- 1 Sq Meter=10,000 Sq Centimeters=10.76 Sq Feet 1 Sq Kilometer=1,000,000 Sq Meters=0.0386 Sq Miles

CUBIC MEASURE

1 Cu Centimeter=1000 Cu Millimeters=0.06 Cu Inches

1 Cu Meter=1,000,000 Cu Centimeters=35.31 Cu Feet

5/9 (°F - 32) = °C 212° Fahrenheit is equivalent to 100° Celsius 90° Fahrenheit is equivalent to 32.2° Celsius 32° Fahrenheit is equivalent to 0° Celsius 9/5 C° +32=F°

MULTIPLY BY

APPROXIMATE CONVERSION FACTORS TO.

Inches	. Centimeters 2.540
	. Meters 0.305
	. Meters 0.914
Miles	. Kilometers 1.609
Square Inches	. Square Centimeters 6.451
Square Feet	. Square Meters 0.093
Square Yards	. Square Meters 0.836
Square Miles	. Square Kilometers 2.590
Acres	. Square Hectometers 0.405
Cubic Feet	. Cubic Meters 0.028
Cubic Yards	. Cubic Meters 0.765
Fluid Ounces	. Milliliters 29.573
	. Liters 0.473
Ouarts	. Liters 0.946
	. Liters 3.785
Ounces	. Grams 28.349
	. Kilograms 0.454
	. Metric Tons 0.907
	. Newton-Meters 1.356
Pounds per Square Inch	. Kilopascals 6.895
Miles per Gallon	. Kilometers per Liter 0.425
Miles per Hour	. Kilometers per Hour 1.609
TO CHANGE	TO MULTIPLY BY
Centimeters	. Inches 0.394
Meters	. Feet 3.280
Meters	. Feet 3.280 . Yards 1.094
Meters	. Feet 3.280 . Yards 1.094 . Miles 0.621
Meters	. Feet
Meters	. Feet
Meters	Feet 3.280 Yards 1.094 Miles 0.621 Square Inches 0.155 Square Feet 10.764 Square Yards 1.196
Meters	Feet 3.280 Yards 1.094 Miles 0.621 Square Inches 0.155 Square Feet 10.764 Square Yards 1.196 Square Miles 0.386
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Meters	Feet 3.280 Yards 1.094 Miles 0.621 Square Inches 0.155 Square Feet 10.764 Square Yards 1.196 Square Miles 0.386 Acres 2.471 Cubic Feet 35.315 Cubic Yards 1.308 Fluid Ounces 0.034
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