D101.11: 9-2330-364-14+P

TM 9-2330-364-14 &

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

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

SEMITRAILER, VAN: ELECTRONIC, NBC HARDENED, TACTICAL, 4.5 TON, 4 WHEEL, XM1006 (2330-01-110-9281)



STY OF VIR

MILLER TRAILERS, INC. CONTRACT DAAE07-80-C-5965

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LUBRICATION INSTRUCTIONS PAGE 3-1

OPERATOR TROUBLESHOOTING PAGE 3-6

ORGANIZATIONAL PMCS PAGE 4-3

> ORGANIZATIONAL MAINTENANCE PAGE 4-27

DS/GS MAINTENANCE PAGE 5-1

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JULY 1983

HIGH VOLTAGE

is used in the operation of this equipment.

DEATH ON CONTACT

may result if personnel fail to observe safety precautions.

Be careful not to contact high-voltage connections of 115 and 208-volt ac input connections when working on this equipment.

Before working inside the equipment, turn power off and ground points of high potential before touching them.

> EXTREMELY DANGEROUS POTENTIALS exist in the following units:

> > Air Conditioner Circuit Breaker 110-volt Receptacles

For artificial respiration, refer to TM 21-11.

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AIR UNDER PRESSURE

100 PSI AIR PRESSURE

is used in the operation of this equipment.

DEATH

or severe injury may result if personnel fail to observe safety precautions.

WARNING

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138° F (58.8° C).

WARNING

Do not use gasoline, dry cleaning solvent or mineral spirits paint thinner to remove oil or grease from canvas. Use only water and a scrubbing brush.

WARNING

Overheated brake drums and hubs can cause severe burns to personnel when touched.



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ii



Personnel must get under spare wheel carrier to remove nut. Exercise care to prevent injury.

WARNING

Hold wrench firmly when spare wheel carrier pawl is released; wheel can drop fast and cause injury.

WARNING

Be sure all personnel stand clear of towing vehicle and semitrailer during coupling operations.

WARNING

With quick release pins removed, upper part of rear platform will be loose. Person on ground must exercise care to support platform throughout the removal procedure.

WARNING

Rear platform must be supported in upright position during removal procedure.

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Weight of semitrailer must be supported by leveling jacks or by blocking or support stands placed under rear corners of frame throughout operations to remove axle assembly.

WARNING

Wear goggles when opening air reservoir drain cock. Failure to do so could cause serious eye injury from high pressure air.

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TECHNICAL MANUAL

DEPARTMENT OF THE ARMY

No. TM 9-2330-364-14 & P

Washington, D.C. 29 July 1983

OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT

AND GENERAL SUPPORT MAINTENANCE MANUAL

(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

SEMITRAILER, VAN: ELECTRONIC, NBC HARDENED,

TACTICAL, 4.5 TON, 4 WHEEL, XM1006

(2330-01-110-9281)

Current as of 6 June 1983

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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

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CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

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1-1. 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:

Semitrailer, Van, Electronic, Nuclear, Biological, Chemical (NBC) Hardened, Tactical, 4-Wheel, XM1006.

Purpose of Equipment:

Houses and transports sensitive electronic equipment.

1-2. MAINTENANCE FORMS, RECORDS AND REPORTS

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

1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

For destruction of Army materiel to prevent enemy use, refer to TM 750-244-6.

1-4. PREPARATION FOR STORAGE

For information on administrative storage, refer to TM 740-90-1.

1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your semitrailer 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 or performance. Put it on SF368 (Quality Deficiency Report). Mail it to U.S. Army Tank-Automotive Command, ATTN: DRSTA-MP, Warren, Michigan 48090. We'll send you a reply.

1 - 3

Section II. EQUIPMENT DESCRIPTION AND DATA

1-6. EQUIPMENT CHARACTERISTICS, CAPABILITIES AND FEATURES

a. Characteristics.

(1) Serves as housing for electronic equipment.

(2) Serves to transport the electronic equipment in operating condition.

(3) Provides quick set-up in operating mode.

b. Capabilities and Features.

(1) Transports delicate equipment with a minimum of vibration.

(2) Provides level attitude needed for operation of delicate equipment accomplished through use of leveling jacks and landing gears.

(3) Can be towed at speeds up to 50 mph (80.5 kph) on highway, 20 mph (32.2 kph) on secondary roads, and 10 mph (16.1 kph) over rough terrain when fully loaded.

(4) Air-over-hydraulic brake system provides positive stopping action of semitrailer.

(5) It is Radio Frequency Interference (RFI) shielded.

(6) It is weather insulated and water tight.

(7) It has storage facilities for tools, TMDE, BII, crew equipment and supplies.

(8) Has a removable dolly assembly.

(9) The towing vehicle used is the M52, M52A1, M52A2, M818, or M915 tractor.

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

The front, rear, right, and left designations used in the manual designate the general areas or sides of the semitrailer as viewed from the rear of the semitrailer, facing toward the front.





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1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)

c. RIGHT SIDE DOOR (1)

Located to rear of drop. Provides access to interior of semitrailer.

d. SIDE PLATFORM (2)

Located at right side door.

Provides step-up access to side door.

Detachable and is stowed in stowage box underneath van body when not in use.



Right side door
Side platform





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1-6

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)

g. LADDERS



Two personnel boarding ladders provide access to side door, side platform, rear door and rear platform (refer to para 2-18).



A 12-foot folding ladder provides access to semitrailer roof (refer to para 2-18).

Folding ladder is stowed in brackets and clamps on rear of stowage box located underneath semitrailer body.

TA 245380

1-7



TM 9-2330-364-14 & P

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)

h. DOLLY ASSEMBLY



The dolly assembly, which can be removed, consists of:

- 1. Dual wheels and tires
- 2. Axle assembly
- 3. Suspension system
- 4. Leveling jacks
- 5. Spare wheel carrier
- 6. Electrical system
- 7. Splash guards
- 8. Air-over-hydraulic brake system

TA 245381



1-8 Digitized by Google

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)

WHEEL AND TIRE i.

The eight wheels (2) are offset disk-type rims with splittype retaining rings.

Nuts (1) for right wheels (marked R) have right hand threads.

Nuts (1) for left wheels (marked L) have left hand threads. The studs are similarly marked.

Nuts (1) must be turned in opposite direction of forward rotation of wheel to be loosened or removed.

Tires (3) are pneumatic type, highway, commercial tread design, size 9.00 by 20, 10 ply rating.



j. AXLE ASSEMBLY

Two axle assemblies are located at center and rear of dolly assembly.

Each axle assembly has brake drum, hub, brake assemblies, and associated parts.

k. HUB (1)

Each hub is mounted on axle spindle on two tapered roller bearings.

Brake drums are mounted on hubs.

1. BRAKE DRUM (2)

Each brake drum is secured to hub through a dished adapter (3).

A hub cap and gasket, secured to hub, keeps out moisture and dirt.



- 1. Hub
- 2. Brake drum 3.
- Adapter

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1-9

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LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)

m. SPARE WHEEL CARRIER

Is mounted at right side front of dolly assembly.

Has a wire rope and ratchet to help raise and lower spare wheel and tire.







Are air-over-hydraulic type.

Air pressure operates bydraulic portion of braking system.

Brakes operate automatically when pressure is applied at tractor.

(2) RELAY VALVE

Located at rear of dolly, just forward of rear axle.

It directly controls service brakes by controlling flow of air to and from air reservoir.

Is connected to emergency and service air lines, air reservoir, and brake air chambers.

Automatically applies brakes if semitrailer breaks away from towing vehicle. Brakes also apply automatically if there is a serious leak in the emergency air line.









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EEDER

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)

(6) SERVICE AIR LINE

Extends from gladhand (air half-coupling) (marked SERVICE) along left side rail into top of relay valve.

It transmits changes in air pressure which cause relay valve to function.

These changes result from brake being applied in towing vehicle.

(7) EMERGENCY AIR LINE

Extends from gladhand (air half-coupling) (marked EMERGENCY) along left side rail into bottom of relay valve.

It transmits compressed air to fill air reservoir and to maintain proper air pressure under control of the relay valve.

(8) GLADHAND (AIR HALF-COUPLING)

Two gladhands (1) are located at front end of semitrailer.

Two additional gladhands are located on left side of dolly frame.

They provide the connections to the brake air system.

The emergency air connection on the dolly is located slightly to the rear of the service air connection.



Are located on front gladhands.

Are spring loaded to keep dirt from entering when system is not connected.





LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)

(10) INTERNAL BRAKE MECHANISM

Each brake mechanism is located within the brake drum and is supported by a backing plate.

Each one has two brake shoes fitted with brake linings.

Two hydraulic wheel cylinders are mounted between the ends of the brake shoes.

o. DOLLY ELECTRICAL SYSTEM

Wiring harness is located along inside left rail of dolly frame. It extends from electrical inlet receptacle at front of dolly to left rear stoplight taillights and across to right.



1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)

r. LEVELING JACK

A leveling jack (1) and shoe (3) are provided at each rear corner of dolly.

Crank handle (2) is stowed on jack.

Leveling jack is used to level and help stabilize semitrailer.

> Leveling jack 1. 2. Crank handle Shoe

3.

SUSPENSION SYSTEM s.

Consists of a single point, two-spring tandem axle suspension. Each spring contains five leaves.

Each end of spring rests on rubber pads in spring box.

ELECTRICAL INPUT RECEPTACLES t. 0 0 0 Two electrical input receptacles 0 24 VOLT 0 are located on lower left side of front wall. 0 2 The 24-volt 12-pin receptacle is located above the 12-volt 7-pin receptacle. 0 0 12 VOLT 0 0 ଜ Θ 0 0

1 - 14

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1-9. STENCIL MARKINGS



The following list shows the location and wording of the stencil markings used on the semitrailer (see para 3-5 for instructions):

- 1. PLATFORM WEIGHT 250 LBS. 2 PERSONS REQUIRED TO RAISE OR LOWER PLATFORM
- 2. FOR LIFT ONLY
- 3. 2 PERSONS REQUIRED TO REMOVE OR INSTALL
- 4. LOAD CAPACITY 600 LBS.
- 5. TP70
- 6. PLATFORM LOAD CAPACITY 1500 LBS.



Rear view of dolly

TA 245389

1-16





1-10. EQUIPMENT DATA

Towing facility	kingpin	2 in.
Dimensions:		
Overall length (over corner posts)	395 in.	(1 003.3 cm)
Overall length (with platforms stowed)	377 in.	(957.6 cm)
Overall width (without side platform).	96 in.	(243.8 cm)
Kingpin to front	18 in.	(45.7 cm)
Kingpin to center of axle	292 in.	(741.7 cm)
Overall height (operational)	140 in.	(355.6 cm)
Overall height (without dolly)	96 in.	(243.8 cm)
Weight:		
Weight (empty)	28,710 lbs.	(13 034.3 kg)
Weight on kingpin (empty)	9,460 lbs.	(4 294.8 kg)
Weight on wheels (empty)	19,250 lbs.	(8 739.5 kg)
Weight (loaded)	37,710 lbs.	(17 120.3 kg)
Weight on kingpin (loaded)	12,430 lbs.	(5 643.2 kg)
Weight on wheels (loaded)	25,280 lbs.	(11 477.1 kg)
Weight of dolly	5,620 lbs.	(2 551.5 kg)
Cubage (shipping)	3,089 cu.ft	.(86.5 m ³)
Axle:		
Tubular ordnance standard	14,000 lbs	. (6 356.0 kg)
Brake system:		
Actuation	Air-over-h	ydraulic
Brake assemblies	4 sets	
Electrical system:		
Voltage	12/24 volt	dc
Power source	Towing veh	icle
Tires:		
Number	8 and a sp	are
Туре	Commercial	pneumatic
Design	Highway tr	ead

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Tires (cont)	
Number of plies	10
Tire inflation:	
Highway	70 psi (482.65 k pa)
Cross-country	45 psi (310.28 k pa)
Sand, mud, snow	45 psi (310.28 k pa)
Landing gear	Separately operated, two-speed
Suspension	Single point, five-leaf spring tandem suspension system
Fording depth	60 in. (152.4 cm)

Section III. TECHNICAL PRINCIPLES OF OPERATION



Dolly brake system

TA 245390

1-11. BRAKE SYSTEM (cont)

When the air couplings are connected between the towing vehicle and the semitrailer, air shutoff valves on the towing vehicle are opened. Air flows through the air lines and the relay valve into the air reservoir on the semitrailer. The air pressure is built up to equal the air pressure on the towing vehicle.

When pressure is applied to the brake pedal on the towing vehicle, air pressure is directed to the relay valve.

The relay valve releases compressed air from the reservoir to the brake air chamber attached to the hydraulic master cylinder.

The brake air chamber push rod extends to contact a piston inside the master cylinder. The piston is actuated by pressure from the push rod to create hydraulic pressure in proportion to the pressure applied by the push rod.

The hydraulic pressure moves the wheel cylinder piston in the wheel brake mechanism. These pistons force the lining of the brake shoe against the brake drum.

When the brake pedal is released, a drop in pressure causes the relay valve to release the compressed air from the semitrailer brake system.

With the air released, the brake return springs pull the brake shoes away from the drums.

The extent of brake release is in direct proportion to the brake pedal movement.

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OPERATING INSTRUCTIONS

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Section I. DESCRIPTION AND USE OF THE OPERATOR'S CONTROLS AND INDICATORS

2-1.	LANDING GEAR CRANK Refer to para 1-7a.
2-2.	GLADHAND (AIR HALF-COUPLING) Refer to para 1-7n(8),(9).
2-3.	AIR RESERVOIR DRAIN COCK Refer to para 1-7n(5).
2-4.	SPARE WHEEL CARRIER Refer to para 1-7m.
2-5.	LEVELING JACK Refer to para 1-7r.
2-6.	LADDERS Refer to para 1-7g.

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CHAPTER 2

OPERATING INSTRUCTIONS

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2-4.	SPARE WHEEL CARRIER Refer to para 1-7m.
2-5.	LEVELING JACK Refer to para 1-7r.
2-6.	LADDERS Refer to para 1-7g.

2-1

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Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

2-7. MAINTENANCE FORMS AND RECORDS

Every mission begins and ends with paper work. There isn't much of it, but you have to keep it up. The forms and records you fill out have several uses. They are a permanent record of the services, repairs, and modifications made on your vehicle. They are reports to organizational maintenance and to your Commander, and they are a checklist for you when you want to know what is wrong with the vehicle after its last use, and whether those faults have been fixed. For the information you need on forms and records, see TM 38-750.

2-8. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

<u>a</u>. Do your before (B) PREVENTIVE MAINTENANCE just before you operate the vehicle. Pay attention to the CAUTIONS and WARNINGS.

b. During checks and services (D) of PREVENTIVE MAINTENANCE will be performed while the equipment and/or its component systems are in operation.

<u>c</u>. Do your after (A) PREVENTIVE MAINTENANCE right after operating the vehicle. Pay attention to the CAUTIONS and WARNINGS.

d. Do your weekly (W) PREVENTIVE MAINTENANCE weekly.

e. Do your monthly (M) PREVENTIVE MAINTENANCE once a month.

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

g. 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.

<u>h</u>. If anything looks wrong and you can't fix it, write it on your DA Form 2404. If you find something seriously wrong, report it to organizational maintenance RIGHT NOW.

 \underline{i} . 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

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point is 138°F (58.8°C).

0 0 1

2 - 2



2-8. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (cont)

(1) <u>Keep it clean</u>: 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 cleaning solvent (item 3, appendix E) on all metal surfaces. Use soap and water when you clean rubber or plastic material.

(2) <u>Bolts, nuts and screws</u>: Check them all for obvious looseness, missing, bent or broken condition. You can't try them all with a tool, but look for chipped paint, bare metal, or rust around bolt heads. If you find one you think is loose, tighten it, or report it to organizational maintenance if you can't tighten it.

(3) <u>Welds</u>: Look for loose or chipped paint, rust, or gap where parts are welded together. If you find a bad weld, report it to organizational maintenance.

(4) <u>Electric wires and connectors</u>: Look for cracked, frayed or broken insulation, bare wires, and loose connectors. Tighten all loose wires and connectors as required.

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

j. It is necessary for you to know how fluid leakage affects the status of your vehicle. The following are definitions of the types/classes of leakage you need to know to be able to determine the status of your vehicle. Learn, then be familiar with them and REMEMBER - WHEN IN DOUBT, NOTIFY YOUR SUPERVISOR.

Leakage Definition for Crew/Operator PMCS

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

CAUTION

Equipment operation is allowable with minor leakages (Class I or II). Of course, consideration must be given to the fluid capacity in the item/system being checked/inspected. When in doubt, notify your supervisor.

When operating with Class I or Class II leaks, continue to check fluid levels as required in your PMCS. Class III leaks should be reported to your supervisor or organizational maintenance. 2-3

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Operator/Crew Preventive Maintenance Checks and Services

NOTE

Within designated interval, these checks are to be performed in the order listed.

	Interval	ITEM TO BE INSPECTED Procedures: Check For and	
ltem No.	D A W M	Have Repaired, Filled, or Adjusted as Needed	Equipment Is Not Ready/Available If:
1		NOTE Perform weekly as well as before PMCS if: a. You are the assigned operator but have not oper- ated the vehicle since the last weekly. b. You are operating the vehicle for the first time. MAKE THE FOLLOWING WALK- AROUND CHECKS: EXTERIOR OF VEHICLE a. Check tires for un- usual or extreme wear, cuts, cracks, and improper infla- tion. Remove any stones from between the treads. b. Visually check for loose, missing or damaged parts. c. Check for evidence of leakage (oil or brake fluid) on or under semitrailer. d. Gage tires for correct pressure (70 psi. 482.65k pa)	Tires have cuts or abrasions which would res- ult in tire fail- ure during oper- ation. Class III leak- age is evident.

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Operator/Crew Preventive Maintenance Checks and Services (cont)

NOTE

Within designated interval, these checks are to be performed in the order listed.

B-Bet	iore			D	Dur	ing A-After	W-Week	cly M—Monthi			
			In			nterv	al		ITEM TO BE INSPECTED Procedures: Check For a	and	
ltem No.	B	D	A	w	м	Have Repaired, Filled, or Adjusted as Needed		Equipment Is Not Ready/Available If:			
2						WHEELS)				
					500	NOTE Left wheel nuts are tr ed counterclockwise to tighten and clockwise loosen. Right wheel r are turned clockwise tighten and countercl wise to loosen. a. Inspect wheel nu every 500 miles for tight	urn- o to nuts to .ock- ts (1) I htness n	Wo or more wheel outs missing from			
					500 500	Tighten if necessary and organizational maintenan torque nuts to 450-500 (610.2-678 Nm). b. Inspect hub cap 1 (2) every 500 miles for ness. Tighten if neces c. Inspect wheel (3 damage every 500 miles.	d have a nce lb-ft bolts tight- sary) for	ny one wheel.			

Operator/Crew Preventive Maintenance Checks and Services (cont)

NOTE

Within designated interval, these checks are to be performed in the order listed.

B — Before		D–Dur				ing A-After W-1	Weekly	M — Monthly
	Interval					ITEM TO BE INSPECTED Procedures: Check For and		
ltem No.	B	D	A	w	м	Have Repaired, Filled, or Adjusted as Needed	Equipme Ready/A	ment is Not //Available if:
3						BRAKE AIR HOSES		
	•					Check air lines/hoses fo obvious damage.	or Air line broken o	/hose(s) r missing.
4						ELECTRICAL WIRING		
	•					Visually inspect electrical wiring for cuts, breaks or other damage.	-	
5						LIGHTS AND REFLECTORS		
	•					a. Operate lights (if tactical situation permits)		
				•		b. Visually inspect re- flectors for presence or damage.		
6						AIR BRAKE RESERVOIR I I I I I I I I I I I I I		
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Operator/Crew Preventive Maintenance Checks and Services (cont)

NOTE

Within designated interval, these checks are to be performed in the order listed.

	B-Be	fore			D-Duri		ing A—After W—W	eekiy M—Monthi
	item No.	Interval					ITEM TO BE INSPECTED Procedures: Check For and	
		В	D	A	w	м	Have Repaired, Filled, or Adjusted as Needed	Equipment Is Not Ready/Available If:
	6						AIR BRAKE RESERVOIR (cont)	
				•			a. Open drain cock to drain accumulated moisture.	
	7						b. Close drain cock.	
	/						SPRINGS	
		•					Visually inspect springs for abnormal sag, broken or shifted leaves, loose or missing U-bolts, nuts or screws.	Spring damaged or missing parts.
	8						GENERAL OPERATIONS	
			•				Be alert for unusual noises or abnormal condition that might indicate load shifting or defective per- formance.	3
	9						BRAKES	
			•				During operation, apply semitrailer brakes several times and check for any un- usual conditions or unsat- isfactory performance (grab- bing, pulling or slow brakes	Brakes fail to operate.
	10						TRACKING	
			•				Pull semitrailer straight ahead and check for any side pull, wander, shimmy, or slack between kingpin and fifth wheel lock.	

2-7
Operator/Crew Preventive Maintenance Checks and Services (cont)

NOTE

Within designated interval, these checks are to be performed in the order listed.

B—Before		D-Dur				ng A-After W-	W-Wee	kiy M-Monthly	
		In	nterv	ai		ITEM TO BE INSPECTED Procedures: Check For and	nd		
ltem No.	B	D	A	w	м	Have Repaired, Filled, or Adjusted as Needed		Equipment Is Not Ready/Available If:	
11			•			BRAKE DRUM AND HUB (TEMPERATURES)	s drums ces-		
12	•					Overheated brake drum indicate improperly a justed, defective or dry wheel bearings or dragging brakes. LANDING GEAR Couple semitrailer t ing vehicle and check 1 ing gear for obvious da	d- o tow- and- mage.	Landing gear does not work.	
-8								TA 245393	
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Operator/Crew Preventive Maintenance Checks and Services (cont)

NOTE

Within designated interval, these checks are to be performed in the order listed.

		D-	Duri	ng A-After W	-Weekly	M-Monthl
Interval				ITEM TO BE INSPECTED Procedures: Check For and	eg klas	
D	A	w	м	Have Repaired, Filled, or Adjusted as Needed	Equip Read	oment is Not ly/Available if:
AN APRIL			ALNES -	AIR PRESSURE Inspect for leaks in th air brake system by stopp: engine of towing vehicle when air pressure is at a maximum and noting any lan drop on the air pressure a within about one minute.	ne Leaks ing rge gage	are present.
Hi:		100		BODY AND FRAME	-Ringpin roach ram	
3.	2		•	a. Visually inspect bo parts, such as doors and spare wheel carrier, for damage.	ody	
				b. Make general inspection of body, ladders and landing gear and leveling jack shoes.	gs as 1000 tgit as n	Adjust he
infer to	2		•	c. Visually inspect re and side platforms. Make certain lock pins are pres and in good order.	ear sent	
a dip	ad al	E.C.	24	RADIO FREQUENCY INTERFEREN (RFI) SHIELDING	NCE	
ate wa 1:1	夏と記録	an banka	●ズの日本	NOTE Radio Frequency Inter- ference shielding in the door jambs must be kept clean at all times Make certain door jamba and threshholds are free o	s of	
		D A	D A W	D-Duri	D-During A-After W Interval ITEM TO BE INSPECTED Procedures: Check For and Have Repaired, Filled, or Adjusted as Needed D A W M AIR PRESSURE Inspect for leaks in the air brake system by stopp: engine of towing vehicle when air pressure is at a maximum and noting any land drop on the air pressure of within about one minute. BODY AND FRAME A. Visually inspect boy parts, such as doors and spare wheel carrier, for damage. b. Make general inspect tion of body, ladders and landing gear and leveling jack shoes. c. Visually inspect re- and side platforms. Make certain lock pins are pre- and in good order. RADIO FREQUENCY INTERFEREN (RFI) SHIELDING NOTE Radio Frequency Inter- ference shielding in the door jambs must be kept clean at all times Make certain door jamb and threshholds are free dirt, dust and grime. Wate with clean prime of ware	D-During A-After W-Weekly Interval ITEM TO BE INSPECTED Procedures: Check For and Have Repaired, Filled, or Adjusted as Needed Equip Read D A W M AIR PRESSURE Inspect for leaks in the air brake system by stopping engine of towing vehicle when air pressure is at a maximum and noting any large drop on the air pressure gage within about one minute. Leaks BODY AND FRAME a. Visually inspect body parts, such as doors and spare wheel carrier, for damage. b. Make general inspec- tion of body, ladders and landing gear and leveling jack shoes. C Visually inspect rear and in good order. C. Visually inspect rear and in good order. RADIO FREQUENCY INTERFERENCE (RFI) SHIELDING NOTE Radio Frequency Inter- ference shielding in the door jambs must be kept clean at all times. Make certain door jambs and threshholds are free of dirt, dust and grime. Wash with a learning column (iters of dirt, dust and grime. Wash

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Section III. OPERATION UNDER USUAL CONDITIONS

2-9. COUPLING SEMITRAILER TO TOWING VEHICLE

WARNING

Be sure all personnel stand clear of towing vehicle and semitrailer during coupling operations, or serious injury may result.

- 1. Aline towing vehicle with semitrailer.
- Slowly back towing vehicle into position. Be sure kingpin (1) is in line with fifth wheel coupler jaws (3).
- 3. Before kingpin plate (2) starts to ride the approach ramps (4), check that kingpin plate (2) is above approach ramps (4).

NOTE

Ground guide will assist in raising and lowering landing gear legs as required.

- Adjust height as needed by using landing gear. Make sure coupler jaws (3) are open.
- 5. Slowly back towing vehicle until coupler jaws (3) engage kingpin.

CAUTION

Visually check coupling. You should not be able to see daylight between fifth wheel and kingpin plate. If light shows, realine towing vehicle.

 Make sure coupling is secure by inching forward. If coupling is not locked, rock back and forth slowly until kingpin (1) is locked in fifth wheel (5).

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- 1. Kingpin
- 2. Kingpin plate
- Coupler jaws
 Ramps
- 4. Ramps 5. Fifth wheel
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2-9. COUPLING SEMITRAILER TO TOWING VEHICLE (cont)

- 10. Make certain air reservoir drain cock is closed.
- 11. Open two shutoff valves on towing vehicle to pressurize semitrailer air system.
- 12. Unlatch both boarding ladders from platforms (para 2-18). and set aside.
- 13. Raise and secure rear platform (para 2-17).
- 14. Stow boarding ladders on rear platform.
- 15. Remove side platform from side of semitrailer as follows:



- a. Two persons are required to perform this operation.
- b. Raise platform to upright position.

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c. Release snap hook (2) from chain eye (1).



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2-9. COUPLING SEMITRAILER TO TOWING VEHICLE (cont)

- Plug towing vehicle intervehicular cable (3) into receptacle on front of semitrailer.
- 20. Make sure to use the proper receptacle, either 12-volt (2) or 24-volt (1), depending on the electrical system of the towing vehicle.
- 21. Check to see that all lights are in working order.
 - 1. 24-volt receptacle
 - 2. 12-volt receptacle
 - 3. Intervehicular cable



2-10. TOWING THE SEMITRAILER

DRIVING

- 1. When driving towing vehicle and semitrailer, the overall length of the unit must be kept in mind when passing other vehicles and when turning.
- 2. Because the unit is hinged in the middle, turning and backing are also affected.
- 3. The semitrailer's payload will affect stopping and off road maneuverability.

TURNING

- 1. When turning corners, allow for the fact that the semitrailer wheels turn inside the turning radius of the towing vehicle.
- 2. To make a right turn at a road intersection, drive towing vehicle about half way into the intersection and then cut sharply to the right.
- 3. This will allow for the shorter turning radius of the semitrailer and will keep it off the curb.

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2-14



2-10. TOWING THE SEMITRAILER (cont)

STOPPING

- 1. In normal operation, the brakes of towing vehicle and semitrailer are applied at the same time when the driver steps on brake pedal.
- 2. Brake pressure must be applied gradually and smoothly.
- 3. Semitrailer brakes may be applied separately by using brake control lever on towing vehicle steering column.
- 4. On steep down grades or slippery surfaces, semitrailer brakes must be applied before towing vehicle brakes. This will reduce the possibility of jack-knifing the semitrailer.

PARKING

- 1. When towing vehicle and semitrailer are to be parked and left unattended, set parking brake on towing vehicle and apply brakes on semitrailer.
- 2. Turn off towing vehicle engine before leaving cab.
- 3. Block semitrailer wheels with wheel chocks.

BACKING

- 1. The assistant driver or another person will act as ground guide to assist and direct driver.
- 2. Adjust all rear view mirrors before backing.
- 3. When backing, rear of semitrailer will always move to opposite direction of that in which front wheels are turned.
- 4. When wheels of towing vehicle are turned to the right, rear of semitrailer will go to the left.
- 5. When semitrailer has turned and backing in a straight line is required, turn towing vehicle wheels in the direction semitrailer is moving. This will slowly bring towing vehicle and semitrailer into a straight line.

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2-11. UNCOUPLING SEMITRAILER FROM TOWING VEHICLE



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2-1	1. UNCOUPLING SEMITRAILER FROM TOWING VEHICLE (cont)				
	NOTE				
	Make sure there is firm footing under landing gear and leveling jack shoes before lowering landing gears or leveling jacks.				
4.	Remove pin (1) from crank holder and move crank (2) to cranking position.				
5.	Turn crank (2) clockwise to lower landing gear legs until they support front of van.				
6.	Pull out crank (2) for high speed lowering. Push in crank for slower speed and leveling.				
	1. Pin 2. Crank				
	WARNING				
Wear goggles when opening air reservoir drain cock. Failure to do so could cause serious eye injury from high pressure air.					
	9_1				
7.	Close shutoff valves on towing vehicle air lines.				
8.	Open air reservoir drain cock (see para 2-19).				
-					

- Disconnect intervehicular air hoses (1) from semitrailer 9. gladhands (2).
 - Intervehicular air hose Gladhand 1. 2.



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2-11. UNCOUPLING SEMITRAILER FROM TOWING VEHICLE (cont)

- 10. Disconnect intervehicular electrical cable.
- 11. Release kingpin lock on the fifth wheel and drive towing vehicle away from semitrailer.

2-12. PREPARING SEMITRAILER FOR OPERATION

PRELIMINARY STEPS

- 1. Uncouple semitrailer from towing vehicle (para 2-11).
- 2. Lower landing gear legs (para 2-13).
- 3. Level van body (para 2-15).
- 4. Install side platform and lower rear platform (para 2-16,2-17).
- 5. Install ladders (para 2-18).

2-13. LANDING GEAR

OPERATION

- 1. Make certain landing gears are in normal operating position, with legs contacting ground.
- 2. Landing gear crank (1) is stowed on landing gear (2).
- 3. It is held in place on top of landing gear with screw, nut and washer through the slot in landing gear shaft.
- 4. Other end of crank is retained by lock pin (3).
 - 1. Crank
 - 2. Landing gear
 - 3. Lock pin



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2-14. LEVELING JACK

OPERATION

- 1. Leveling jack crank (1) is stowed on jack (2).
- It is held in place on top of leveling jack with screw, washer and nut through the slot in leveling jack shaft.
- 3. Other end of crank is retained by lock pin (3).
 - Crank
 Leveling jack
 - 3. Lock pin
- Remove lock pin (3). Crank

 will remain suspended on leveling jack shaft, held in place by screw, washer and nut.
 - Crank
 Lock pin
- 5. Lift and position crank (1) so that slot in crank engages pin in leveling jack shaft and locks in place.
- 6. Leveling jacks are two speed separately operated legs.
- 7. Pull out shaft for high speed travel. Push in shaft for low speed travel.
 - 1. Crank



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2-15. LEVELING VAN BODY

- 1. Two persons are required for this procedure, one in interior of van with a level and another to operate landing gears and leveling jacks.
- 2. Follow procedure of paragraph 2-14 to set leveling jacks in operating position.
- 3. Raise or lower landing gear legs or leveling jacks in turn as required (para 2-13, 2-14).

2-16. INSTALLING AND REMOVING SIDE PLATFORM

INSTALLING SIDE PLATFORM



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2-16. INSTALLING AND REMOVING SIDE PLATFORM (cont)

REMOVING SIDE PLATFORM

- 1. Two persons required.
- 2. One person supports platform in upright position.
- 3. Other person removes chains and lock pins.
- 4. Both persons stow platform in stowage box underneath van body.

2-17. RAISING AND LOWERING REAR PLATFORM

RAISING REAR PLATFORM

WARNING

With lock pins removed, upper part of platform will be loose. In both raising and lowering operations, person supporting platform must exercise care to prevent injury.

- 1. Two persons are required.
- 2. Both persons raise platform (1) to upright position, resting against van body.
- 3. One person supports platform in upright position.

NOTE

Ladder may be required for next step.

4. Second person inserts a lock pin (2) on each side to secure platform (1) in position.

Platform
 Lock pin



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2-17. RAISING AND LOWERING REAR PLATFORM (cont)

LOWERING REAR PLATFORM

- 1. Two persons are required for this operation.
- 2. One person supports platform in upright position.

NOTE

Ladder may be required for next step.

- 3. Second person removes lock pins from each side.
- 4. Both persons lower platform until it comes to rest on chains.



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2-24





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2-18. INSTALLING LADDERS (cont)

- Twelve foot folding ladder is stowed on rear of van body stowage box.
- Loosen lever nuts (1), release clamps (2) and remove ladder (3) from rear of stowage box (4).
 - 1. Lever nut
 - 2. Clamp
 - 3. Ladder
 - 4. Stowage box



WARNING

Wear goggles when opening air reservoir drain cock. Failure to do so could cause serious eye injury from high pressure air.

- The hand operated drain cock
 (2) is located at end and bottom of air reservoir (1).
- Turn counterclockwise to open to drain moisture and to permit release of air pressure if brakes lock. Turn clockwise to close drain cock.
- Open drain cock at end of each operating day.
 - Air reservoir
 Drain cock



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2-22. REMOVAL AND INSTALLATION OF SPARE WHEEL AND TIRE

REMOVAL

WARNING

Personnel must get under tire to remove nuts. Make certain pawl (2) is engaged in ratchet wheel (3). Exercise care to prevent injury.



- 1. Working from curbside of semitrailer, use wheel nut wrench (1) and remove two special wheel nuts (7) which secure wheel to upper member (4).
- 2. Wheel and lower pick-up member (6) are held in place by wire rope (5).
- 3. Position wheel nut wrench (1) on the nut at outer end of ratchet wheel (3) on which wire rope is wound.

WARNING

Hold wrench firmly when pawl is released; wheel can drop fast and cause injury.

- 4. Release pawl (2) from ratchet and turn wrench counterclockwise, thus lowering wheel.
- 5. Continue turning counterclockwise until wheel rests on ground.

6. Slip pick-up member (6) out of wheel hole.

2-28



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AMBER CLEARANCE LIGHT (3)

One at top center of each side. One at top front corner of each side.

One at each top front corner of front side.

AMBER REFLECTOR (4)

Two on each side, one near front and one at center.



Section IV. OPERATION UNDER UNUSUAL CONDITIONS

2-24. GENERAL INFORMATION

<u>a</u>. In addition to the normal preventive maintenance service, special care in cleaning and lubrication must be observed where extremes of temperature, humidity, and terrain conditions are present or anticipated. Proper cleaning, lubrication, and storage and handling of fuels and lubricants not only insure proper operation and functioning, but also guard against excessive wear of the working parts and deterioration of the materials.

<u>b.</u> FM 55-30 contains instructions on driver selection, training, and supervision, and FM 21-305 prescribes special driving instructions for operating wheeled vehicles under unusual conditions. A detailed study of FM 55-30 and FM 21-305 is essential for use of this material under unusual conditions.

<u>c</u>. Refer to paragraphs 2-25 through 2-31 for operating procedures under unusual conditions. For lubrication procedures under operation in dusty and sandy conditions and after fording operations, refer to paragraphs 2-27 and 2-31.

d. When chronic failure of materiel results from subjection to extreme conditions, report the condition on SF Form 368.

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2-30

2-25. OPERATION IN EXTREME COLD

<u>a. General.</u>

(1) Extensive preparation of materiel scheduled for operation in extreme cold weather is necessary. Generally, extreme cold causes lubricants to thicken or congeal, cracks insulation, causes electrical short circuits and various construction materials to become hard, brittle, and easily damaged or broken.

(2) You, the operator, must always be on the alert for indications of the effect of cold weather on the semitrailer.

(3) You, the operator, must be very cautious when placing the vehicle in motion after a shutdown. Congealed lubricants may cause failure of parts. Tires frozen to the ground or frozen to the shape of the flat spot while underinflated must be considered. One or more brake shoes may be frozen fast and require preheating to avoid damage to the towing vehicle clutch surfaces.

(4) Refer to FM 9-207 for description of operation in extreme cold.

b. At Halt or Parking.

(1) When halted for short shutdown periods, park semitrailer in a sheltered spot out of the wind. If no shelter is available, park so that its rear faces into the wind. For long shutdown periods, if high and dry ground is not available, prepare a footing of planks or brush.

(2) Clean all parts of the semitrailer of snow, ice and mud as soon as possible after operation. See PMCS, chapter 2, for after-operation procedures.

(3) Gage tires for correct pressure, 70 psi (432.65 k pa) highway, 30 psi (206.85 k pa) cross-country, 20 psi (137.9 k pa) soft sand.

2-26. OPERATION IN EXTREME HEAT

<u>a.</u> If possible, park semitrailer under cover to protect it from sun, sand and dust.

b. Cover inactive semitrailer with tarpaulins, if they are available and if there is no other available shelter. Shake out and air for several hours weekly canvas covers or other items subject to deterioration from mildew or attacks by insects or vermin.

<u>c</u>. Semitrailers, inactive for long periods in hot, humid weather are subject to rapid rusting and accumulation of fungi growth. Frequently inspect, clean and lubricate to prevent excessive deterioration.

2-31



2-27. OPERATION IN DUSTY OR SANDY AREAS

<u>a</u>. For emergency operations in beach and desert sands, correct tire inflation is 20 psi (137.9 k pa). For continued operation in sand, oversize balloon sand tires may be necessary. The tread should be of plain rib and the tire of round cross section.

<u>b</u>. Operation under extremely sandy or dusty conditions requires frequent inspection, cleaning and lubrication of all working parts in accordance with lubrication instructions.

2-28. OPERATION IN MUD AND SNOW

a. Reduce tire inflation to 20 psi (137.9 k pa).

b. After each operation, remove ice, snow and mud from underneath semitrailer and from hoses, lines, tubes, and electrical connections.

2-29. OPERATION UNDER RAINY OR HUMID CONDITIONS

<u>a.</u> Protect semitrailer from direct rainfall whenever possible. During dry periods open doors to speed drying process.

<u>b.</u> Dampness increases corrosive action. Inspect painted surfaces and electrical connections more frequently for damage.

2-30. OPERATION IN SALT WATER AREAS

Wash salt deposits from all equipment with fresh water. Observe the precautions in paragraph 2-29.

2-31. FORDING OPERATIONS

a. Instructions for fording operations for the towing vehicle apply also to the semitrailer.

b. Reduce tire pressure to 20 psi (137.9 k pa) to aid in amphibious landings.

<u>c</u>. After fording operations, lubricate semitrailer in accordance with lubrication instructions.

d. Notify Organizational Maintenance to clean wheel bearings and hand pack with lubricant specified in lubrication chart after each submersion.

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CHAPTER 3

OPERATOR MAINTENANCE INSTRUCTIONS

CHAPTER INDEX

Lubrication chart3-2Detailed lubrication information3-4Cleaning3-4Service intervals3-4Painting and identification marking3-5Troubleshooting3-6Removal of wheel and tire assembly from hub3-14

Section I. LUBRICATION INSTRUCTIONS

CAUTION

Do not mix hydraulic brake fluid with silicon based fluid. Mixing these fluids may cause brake failure.

3-1. GENERAL

This section contains the lubrication instructions, showing location, intervals and proper materials for lubricating the semitrailer. These instructions are mandatory.

3-1

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3-2

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3-2. DETAILED LUBRICATION INFORMATION

<u>a</u>. Service intervals specified in the lubrication instructions are for normal operation and where moderate temperature, humidity and atmosphere conditions prevail.

<u>b</u>. Clean lubrication points, grease fittings and surrounding areas before applying lubricant.

<u>c</u>. Clean all lubrication points after lubricating to prevent accumulation of foreign matter.

d. Clean and lubricate bearings as specified in TM 9-214.

<u>e</u>. Maintain a record of vehicle lubrication and report any discrepancies noted during lubrication. Refer to TM 38-750 for maintenance forms and procedures to record and report any findings.

3-3. CLEANING

a. Keep all external parts not requiring lubrication clean of lubricants.

<u>b</u>. Use a cleaning solvent (item 3, appendix E) to clean or wash grease or oil from metal parts.

c. After parts are cleaned, rinse and dry them thoroughly. Apply a light grade of oil to all polished metal surfaces to prevent rusting.

<u>d</u>. When authorized to install new parts, remove any preservative materials, such as rust preventive compound or protective grease, prior to installation. Apply lubricant prescribed in lubrication instructions if required.

3-4. SERVICE INTERVALS

<u>a</u>. The service intervals specified are for conditions where normal operation, temperature and humidity prevail.

<u>b</u>. Refer to FM 9-207 for instructions on necessary preliminary lubrication of the vehicle in cold weather areas.

<u>c</u>. After operation under dusty or sandy conditions, clean and inspect all points of lubrication for fouled lubricants. Lubricate as necessary in accordance with lubrication instructions.

d. After fording operation, lubricate vehicle in accordance with lubrication instructions.

3-4



3-5. PAINTING AND IDENTIFICATION MARKING

<u>a.</u> <u>Painting.</u> Instructions for preparation of the material for painting, methods of painting, and materials to be used are contained in TM 43-0139.

b. <u>Identification Marking</u>. Re-stencil the semitrailer chassis or body if the markings are not legible. Instructions for marking are contained in TB 746-93-1. The numerals and letters are of simple block type (1-1/2 inches high), with curved lines where applicable, and painted with black enamel to specification MIL-E-52798. Proceed as follows:

WARNING

To prevent injury to personnel, avoid excessive inhalation of vapors. All cleaning and stenciling procedures must be performed in a well-ventilated room, or outdoors. A fire extinguisher must be positioned adjacent to the work area.

- (1) Remove oil and grease from equipment.
- (2) Apply paint to stencil with dabbing motion.

(3) Remove stencil and fill in spaces to provide for continuous lines in the letters and numerals.

(4) Allow paint to dry for 24 hours.

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Section II. TROUBLESHOOTING PROCEDURES

3-6. INTRODUCTION

Table 3-1 lists the common malfunctions which you find during the operation or maintenance of the semitrailer, van, or its components. You should 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 listed corrective action, notify your supervisor.

SYMPTOM INDEX

T	roubleshooting Chart	Dese
	ITEM NO.	rage
BRAKE SYSTEM		
Brakes will not release Grabbing brakes	. 5	3-9 3-11
No brakes or weak brakes	. в . 7	3-10 3-11
ELECTRICAL SYSTEM		
All lamps fail to light and clearance lights	. 1	3-7
are off	. 3	3-9 3-9
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3-6

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MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM

WARNING

Make sure all electrical power is disconnected before performing any maintenance on the electrical system.

1. ALL LAMPS FAIL TO LIGHT.

Step 1. Check light switch on towing vehicle.

Place light switch on towing vehicle in proper mode of operation. If towing vehicle lamps light, but semitrailer lights do not, proceed to Step 2.

Step 2. Check to see that intervehicular cable (1) is properly plugged into receptacle.

> Pull intervehicular cable plug out of receptacle and insert properly.

Step 3. Inspect for dirty or corroded terminals on intervehicular cable (1).

> Clean connectors, receptacles and plug.



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Table 3-1. Troubleshooting (cont)

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM (cont)

Step 4. Check for good ground connection at intervehicular cable receptacle (para 4-12).

Tighten ground connection.



Step 5. Check lights again.

If they still don't light, notify organizational maintenance.

- 2. ONE OR MORE LAMPS WILL NOT LIGHT.
 - Step 1. Have organizational maintenance inspect and replace defective lamps.
 - Step 2. Inspect for dirty or corroded terminals on intervehicular cable.

Clean connections, receptacle and plug.

Step 3. Check for loose or corroded light connectors. If they still do not light, notify organizational maintenance.

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3-8

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM (cont)

- 3. ALL CHASSIS LIGHTS ARE ON AND CLEARANCE LIGHTS ARE OFF.
 - Step 1. Check to see if 12-volt or 24-volt light receptacle connector is loose.

Pull out intervehicular cable plug, clean and insert. Make certain that a good connection is made.

Step 2. Inspect for dirty or corroded contacts in 12-volt or 24-volt receptacle.

Clean contacts.

If lights don't work, notify organizational maintenance.

4. DIRECTIONAL SIGNALS INOPERATIVE.

Step 1. Inspect turn signal lamp.

If lamp is defective, notify organizational maintenance.

Step 2. Inspect for dirty or corroded connectors at composite light, cable socket and contacts.

Clean connectors and reconnect.

If they don't work, notify organizational maintenance.

BRAKE SYSTEM

5. BRAKES WILL NOT RELEASE.

Step 1. Inspect intervehicular air hose connections. Connect hoses properly - SERVICE to SERVICE, EMERGENCY to EMERGENCY.

Table 3-1. Troubleshooting (cont)

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

BRAKE SYSTEM (cont)

Step 2. Check air reservoir drain cock.

Close air reservoir drain cock (1).



Step 3. Check to see if shutoff valves on towing vehicle are closed.

Close shutoff valves on towing vehicle.

Step 4. Inspect intervehicular hoses for restrictions.

Check intervehicular hoses for kinks, bends, or restrictions, and straighten.

- 6. NO BRAKES OR WEAK BRAKES.
 - Step 1. Check to see if intervehicular air hoses are properly connected. Connect air hoses properly.



Step 2. Check for low air pressure.

Inspect air supply lines for leaks. Tighten connections where necessary.

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3-10



Table 3-1. Troubleshooting (cont)

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

BRAKE SYSTEM (cont)

7. SLOW BRAKE APPLICATION OR SLOW RELEASE.

Have organizational maintenance check master cylinder for sufficient brake fluid, 1/2-inch to 3/8-inch from top of reservoir.



8. GRABBING BRAKES.

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WARNING

Wear goggles when opening air reservoir drain cock. Failure to do so could cause serious eye injury from high pressure air.

Check air system for moisture.

Open drain cock on air reservoir and drain moisture from system.

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MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

SUSPENSION SYSTEM

- 9. SEMITRAILER SAGS TO ONE SIDE.
 - Step 1. Check tires to see if air pressure is low or uneven.

Inflate tires to correct pressure, highway, 70 psi (482.65 k pa), cross-country, 30 psi (206.85 k pa), soft sand, 20 psi (137.9 k pa).

Step 2. Check to see if load in semitrailer is evenly distributed.

Distribute load evenly.

Step 3. Check for broken spring leaves. If broken, notify direct support.

WHEELS, HUBS, BEARINGS, AND TIRES

10. NOISY WHEELS.

Inspect wheels (1) for looseness.

Tighten wheel stud nuts (2) (para 3-7). If still noisy, notify organizational maintenance.

11. WOBBLY WHEELS.

Inspect wheels (1) for looseness.

Tighten wheel stud nuts (2) (para 3-7). If still wobbly, notify organizational maintenance.



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TEST OR INSPECTION

CORRECTIVE ACTION

WHEELS, HUBS, BEARINGS, AND TIRES (cont)

12. EXCESSIVELY WORN, SCUFFED, OR CUPPED TIRE(S).

Step 1. Check for improper tire pressure.

Inflate to correct pressure: highway, 70 psi (482.65 k pa), cross-country, 45 psi (310.28 k pa), soft sand, 45 psi (310.28 k pa).

Step 2. Inspect wheels for looseness.

Tighten wheel stud nuts.

13. AIR LEAKAGE FROM TIRES.

Step 1. Inspect valve core for damage or looseness.

Tighten or replace valve core.

Step 2. Check tire for puncture.

Replace wheel and punctured tire with spare (paras 2-21 and 3-7).

LEVELING JACK AND LANDING GEAR

14. ERRATIC OPERATION OR BINDING.

Step 1. Check for adequate lubrication.

Lubricate in accordance with lubrication instructions.

Step 2. Visually check for apparent damage to leveling jack and gear box.

If damaged, notify organizational maintenance.



Section III. MAINTENANCE

3-7. WHEEL AND TIRE

REMOVAL OF WHEEL AND TIRE ASSEMBLY FROM HUB

- 1. Apply brakes to semitrailer. If semitrailer is attached to towing vehicle, wheels may be locked by disconnecting the emergency air connections.
- 2. Chock wheels on opposite end of axle from which wheel is to be removed.

NOTE

Outer cap nuts on right side (marked R) have right hand threads and those on left side (marked L) have left hand threads. Nuts must be turned in opposite direction to normal forward rotation of wheel to be loosened or removed.

- 3. Loosen six outer wheel nuts (1), using wheel nut wrench (2).
- 4. Jack up semitrailer until wheel clears the ground.
- 5. Remove wheel nuts and remove wheel.
- 6. If inner wheel is to be removed, remove inner six cap nuts and inner wheel in same manner.
 - 1. Outer wheel nuts
 - 2. Wrench



INSTALLATION OF WHEEL AND TIRE ASSEMBLY ON HUB

- 1. Make certain mounting faces of hub, ball seats and flat mounting surfaces of wheel are clean and free of foreign matter or excess paint.
- 2. Check to see that threads of studs are clean and not damaged.

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3-7. WHEEL AND TIRE (cont)

INSTALLATION OF WHEEL AND TIRE ASSEMBLY ON HUB (cont)

- If removed, mount inner wheel
 (7) on hub with convex side
 (8) of wheel facing out.
 Install inner wheel cap nuts.
- 4. Tighten nuts securely in the tightening sequence shown.
- Mount outer wheel (9) on hub, with convex side (8) of wheel facing in and against inner wheel.
- Make certain valve stem for outer wheel is not alined with valve stem of inner wheel.
- 7. Install outer wheel nuts, following same procedure and tightening sequence used with inner wheel nuts.
- 8. As soon as possible, check with organizational maintenance for a torque of 450-500 lb-ft (610.2-678.0 Nm).
- 9. Inflate tires to 70 psi (482.65 k pa) for highway driving, 45 psi (310.28 k pa) for cross-country driving, and 45 psi (310.28 k pa) for driving in soft sand.
- 10. Lower semitrailer and stow wheel chocks.



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CHAPTER 4

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

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Section I. REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

4-1. COMMON TOOLS AND EQUIPMENT

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

4-2. SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

Special tools are not required for this equipment.

4-3. REPAIR PARTS

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

Section II. SERVICE UPON RECEIPT

4-4. GENERAL

When new, used or reconditioned materiel is first received, it is the responsibility of the officer in charge to determine whether the materiel has been properly prepared for service by the supplying organization and to be sure it is in condition to perform its function. Inspect all assemblies, subassemblies, and accessories to be sure they are properly assembled, secure, clean, and correctly adjusted and/or lubricated. Check all tools and equipment to be sure every item is present, in good condition, clean, and properly mounted or stowed.

4-5. INSPECTING AND SERVICING EQUIPMENT

a. Preliminary Services.

(1) General procedures.

If exterior surface is coated with rust preventive compound, remove it with cleaning solvent (item 3, appendix E).

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(2) Special procedures.

(a) Perform the preventive maintenance checks and services (table 4-1).

(b) Lubricate all lubrication points illustrated in the lubrication chart, regardless of interval.

(c) Schedule "S" semiannual preventive maintenance service on DD Form 314 (Preventive Maintenance Schedule and Record).

(d) Deficiencies, which appear to involve unsatisfactory design, will be reported in accordance with TM 38-750.

(e) Perform a "break in" of 25 miles (40.23 km) at a maximum speed of 30 mph (48.27 kph).

<u>b.</u> <u>Before-Operation Service.</u> This is a brief service to ascertain that the semitrailer is ready for operation; it is mainly a check to see if conditions affecting the vehicle's readiness have changed since the last after-operating service. Refer to Operator/ Crew Preventive Maintenance Checks and Services in chapter 2.

Section III. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

4-6. GENERAL

To insure that the semitrailer is ready for operation at all times, it must be inspected within designated intervals so that defects may be discovered and corrected before they result in serious damage or failure. Table 4-1 contains a tabulated listing of preventive maintenance checks and services to be performed by organizational maintenance personnel. All deficiencies and shortcomings will be recorded as well as the corrective action taken on DA Form 2404 at the earliest possible opportunity.

4-7. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES

a. The item numbers of table 4-1 indicate the sequence of the PMCS. Perform at the intervals shown below:

(1) Do your Quarterly (Q) PREVENTIVE MAINTENANCE once each three months.

(2) Do your Semiannual (S) PREVENTIVE MAINTENANCE onc each six months.

(3) Do your Annual (A) PREVENTIVE MAINTENANCE once ch year.



(4) Do your Miles (MI) PREVENTIVE MAINTENANCE when the mileage of the semitrailer reaches the amount listed.

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

<u>c</u>. 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.

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

WARNING

Cleaning solvent used to clean parts is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138° F (58.8° C).

(1) <u>Keep it clean:</u> 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 cleaning solvent (item 3, appendix E) to clean metal surfaces. Use soap and water when you clean rubber or plastic material.

(2) <u>Bolts, nuts and screws</u>: Check that they are not loose, missing, bent, or broken. You can't try them all with a tool, of course, but look for chipped paint, bare metal or rust around bolt heads. Tighten any that you find loose.

(3) <u>Welds</u>: 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.

(4) <u>Electric wires and connectors</u>: Look for cracked, frayed or broken insulation, bare wires, and loose or broken connections and connectors. Tighten all loose wires and connectors. Replace or repair as required.

(5) <u>Hoses and fluid lines</u>: Look for wear, damage and leaks. Make sure clamps and fittings are tight. Wet spots show leaks, of course, but a stain around a fitting or connector can mean a leak. If a leak comes from a loose fitting or connector, tighten it. If something is broken or worn out, either correct it or report it to direct support (refer to MAC Chart).

4-4 Digitized by Google e. It is necessary for you to know how fluid leaks affect the status of your equipment. The following are definitions of the types/classes of leakage you need to know to be able to determine the status of your equipment. Learn and be familiar with them and REMEMBER - WHEN IN DOUBT, NOTIFY YOUR SUPERVISOR.

Leakage definition for Organizational PMCS

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

CAUTION

Equipment operation is allowable with minor leakages (Class I or II). Of course, consideration must be given to the fluid capacity in the item/system being checked/inspected. When in doubt, notify your supervisor.

When operating with Class I or Class II leaks, continue to check fluid levels as required in your PMCS. Class III leaks should be reported to your supervisor or direct support.

4-8. SPECIFIC PROCEDURES

Specific procedures for performance of preventive maintenance checks and services are given in table 4-1.

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Table 4-1. Organizational Preventive Maintenance Checks and Services

	Interval			ITEM TO BE INSPECTED			
Item No. Q		8	A	В	н	MI	Procedures: Check for and have repaired, filled, or adjusted as needed.
							NOTE
							Perform operator/crew PMCS prior to or in conjunction with organ- izational PMCS if:
							a. There is a delay between the daily operation of the equipment and the organizational PMCS.
							b. Regular operator is not assist- ing/participating.
1							TIRES
						1000	a. Rotate and match tires every 1,000 miles to tread design and degree of wear to ensure safety and extended tire life.
						1000	b. Torque lug nuts to 450-500 lb ft. (610-678 Nm).
2							VEHICLE EQUIPMENT
	•						Visually inspect towing/air hose couplings for damaged or loose connec- tions. Repair or replace as required.
3							AIR-HYDRAULIC SYSTEM
		•					a. Check all hydraulic lines for leaks, kinks, bends, cracks, and presence of mounting clamps. Replace as required.

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	literen	interval			ITEM TO BE INSPECTED					
/	No.	٩	S	A	В	н	MI	filled, or adjusted as needed.		
	3							AIR-HYDRAULIC SYSTEM (cont)		
)								INTERVEHICULAR AIR HOSES		
			•					b. Check intervehicular air hoses for cuts, breaks and damaged connectors. Replace if defective.		
)										
)			•					c. Check master cylinder (1) for security of mounting, serviceable vent tube (2), vent hose (3) and leaks.		
	•	,	1	1	•		•	TA 245425 4 - 7		
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Table 4-1. Organizational Preventive Maintenance Cl	hecks and Services (cont)
---	---------------------------

1-Quarterly S-Semiannually A-Annually **B**-Biennially H-Hours MI-Miles

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Table 4-1.	Organizational	Preventive	Maintenance	Checks	and Services	(cont)
------------	----------------	------------	-------------	--------	--------------	--------

Q—Quarterly S—Semiannually A—Annually B—Biennially H—Hours MI	— Miles
---	---------

			Inte	irval			ITEM TO BE INSPECTED		
ltem No.	٩	S	A	B	н	MI	Procedures: Check for and have repaired, filled, or adjusted as needed.		
4							SPRINGS		
		•					Inspect springs and suspension for loose or broken components.		
		•					Tighten U-bolt nuts to following torques:		
							Axle U-bolt nuts - 300 lb-ft (406.8 Nm) dry, 220 lb-ft (298.3 Nm) lube.		
							Trunnion U-bolt nuts - 880 lb-ft (1193.3 Nm) dry, 660 lb-ft (895 Nm) lube.		
5							WHEEL BEARINGS		
			•				Clean wheel bearings and repack in accordance with lubrication chart and paragraph 4-30).		
6							BRAKES		
	•						a. Adjust brakes (para 4-17).		
	•						b. If possible, perform a road test of semitrailer. At all times during test be alert for unusual or excessive noises that may indicate damage, looseness, defects and deficient lubrication.		
7							BRAKE DRUMS AND HUBS		
							WARNING		
							Overheated brake drums and hubs can cause severe burns to person- nel when touched.		

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Table 4-1.	Organizational	Preventive Maintenance	Checks and Services (c	ont)
------------	----------------	-------------------------------	------------------------	------

Q-Quarterly S-Semiannually A-Annually **B**—Biennially H-Hours MI-Miles

		Interval			ITEM TO BE INSPECTED						
No.		٥	Q S A		B	з н мі		Procedures: Check for and have repaired, filled, or adjusted as needed.			
	7							BRAKE DRUMS AND HUBS (cont) Immediately after road test, cautiously touch brake drums and hubs. NOTE An overheated hub and brake drum indicates an improperly adjusted, defective or dry wheel bearing, or dragging brake. An abnormally cool condition indicates an inoperative brake.			
)								<i>μ</i> -9			



Section IV. TROUBLESHOOTING PROCEDURES

4-9. INTRODUCTION

Table 4-2 lists the common malfunctions which you may find a. during the operation or maintenance of the semitrailer, van, or its components. You should 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 listed corrective actions, notify your supervisor.

SYMPTOM INDEX

	Trouble Cha	shooting rt	
	Item	No.	Page
BRAKE SYSTEM			
Brake drum running hot Brakes will not release Grabbing brakes No brakes or weak brakes Noisy brakes Slow brake application or slow release	1	9 5 8 6 1 7	4-21 4-16 4-21 4-18 4-22 4-20
DOORS	•••• I	U	4-22
Difficulty in locking or unlocking doors Door hinges do not operate properly	···· 2 ···· 2	0 1	4-25 4-26
ELECTRICAL SYSTEM			
All lights fail to operate Dim or flickering lights Directional signals inoperative One or more lamps will not light	• • • •	1 3 4 2	4-12 4-15 4-16 4-14

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SYMPTOM INDEX (cont)

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Erratic operation	15	4-24
LEVELING JACK		
Jack is hard to operate Jack shoe will not set on base	16 17	4-24 4-24
SUSPENSION SYSTEM		
Pulling to left or right Semitrailer leans to one side	18 19	4-25 4-25
WHEELS AND HUBS		
Wheel noise Wheel wobble Excessively worn, scuffed, or cupped tires	12 13 13 14	4-22 4-23 4-23

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4

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TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM

WARNING

Make sure all electrical power is disconnected before performing any maintenance on the electrical system. Serious injury or death may result if proper precautions are not taken.

NOTE

The following procedures are applicable to the 12-volt and 24-volt electrical systems.

1. ALL LIGHTS FAIL TO OPERATE.

Step 1. Check to see that light switch on towing vehicle is in desired position.

Place towing vehicle light switch in proper mode of operation.



Step 2. Inspect for dirty or corroded terminals in intervehicular cable plug (1).

Clean terminals in plug and receptacle (2).

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4-12

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM (cont)





Step 3. Inspect intervehicular cable (1) for proper connection to receptacle (2). In all steps, check for good ground connection.

Connect cable properly. Tighten ground.

Step 4. Check to see that current is flowing from towing vehicle.

> Use multimeter for voltage check. Place red lead (1) in lamp socket (2), with black lead to ground. Check for proper voltage (12 volts for all lamps except for the 24-volt blackout lamps).

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TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM (cont)

WARNING

Make sure power is disconnected.

Step 5. Check wiring harness for short circuit.

Check cable for bare spots. Notify Direct Support if repair is necessary. Make a continuity test of all circuits with a multimeter (refer to wiring diagrams, pages 4-28, 4-29).

Step 6. Check light switch on towing vehicle.

Replace light switch on towing vehicle if defective.

Step 7. Check resistor contact points (1). Clean contact points.

Step 8. Use multimeter and check resistors for rated ohms marked on resistors (refer to resistor box wiring diagram page 4-29).

Replace cracked, chipped or defective resistor (para 4-11).



2. ONE OR MORE LAMPS WILL NOT LIGHT.

Step 1. Inspect lamps and check for broken or loose wires. Replace defective lamp. Repair wire breaks at light

assembly and tighten all connections (paras 4-13, 4-14, 4-15). Step 2. Inspect for dirty or corroded cable contacts in sleeves or lamp sockets.

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4-14

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TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM (cont)

Remove lamps and clean contacts (paras 4-13, 4-15). Step 3. Check for broken or loose connections.

Tighten, repair, or replace as necessary.

Step 4. Check to see if light assembly is defective. Replace defective light assembly (paras 4-13, 4-14, 4-15).

Step 5. Inspect intervehicular cable for dirty or corroded terminals.

Clean receptacle and plug.

3. DIM OR FLICKERING LIGHTS.

Step 1. Check to see if lamp is defective.

Replace defective lamp (paras 4-13, 4-15).

Step 2. Inspect for poor or loose ground connections.

Clean ground cable terminal and tighten connections.

Step 3. Inspect for loose, dirty, or corroded terminals. Clean and tighten terminals.

Step 4. Check for dirty or corroded lamp sockets, cable connectors or harness contacts.

Clean as necessary.

Step 5. Check resistor contact points (para 4-11).

Clean contact points.

Step 6. Use multimeter and check resistors for rated ohms marked on resistors (refer to resistor box wiring diagram, page 4-29).

Replace cracked, chipped or defective resistor (para 4-11).

4-15

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM (cont)

Step 7. Check to see if selfsetting circuit breakers do not reset. Replace defective circuit breaker (para 4-11).



4. DIRECTIONAL SIGNALS INOPERATIVE.

- Step 1. Check for defective flasher or switch in towing vehicle. Replace defective part. See towing vehicle maintenance manual.
- Step 2. Check for defective lamp.

Replace defective lamp (para 4-15).

Step 3. Check composite light assembly.

Replace defective light assembly (para 4-15).

Step 4. Inspect for dirty or corroded lamp sockets or contacts. Remove lamp (para 4-15) and clean sockets and contacts.

BRAKE SYSTEM

5. BRAKES WILL NOT RELEASE.

Step 1. Check to see if brake on towing vehicle is in applied position.

Release towing vehicle brake.

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MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

BRAKE SYSTEM (cont)

Step 2. Check to see if shutoff valves on towing vehicle are in closed position.

Open towing vehicle shutoff valves.

- Step 3. Check to see if air reservoir drain cock is open. Close air reservoir drain cock.
- Step 4. Check for restrictions in service and emergency air lines, or intervehicular hoses.

Straighten kinks and bends in lines or hoses.

- Step 5. Inspect intervehicular air hoses (1) for proper connection and damaged or missing preformed packing (2).
 - a. Connect hoses (1) properly.
 - b. Replace missing or damaged preformed packing (see towing vehicle manual).



Step 6. Apply towing vehicle brakes and release. Emergency relay valve should vent brake chamber air through exhaust port when towing vehicle brakes are released.

If brake chamber air is not vented when towing vehicle brakes are released, replace the emergency relay valve (para 4-25).

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4-17

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

BRAKE SYSTEM (cont)

Step 7. Inspect brake shoe return spring to see if spring is weak or broken.

Replace brake shoe return spring (para 4-19).



- 6. NO BRAKES OR WEAK BRAKES
 - Step 1. Check to see if shut off valves on towing vehicle are closed.

Open shut off valves

- Step 2. Inspect intervehicular air hose for proper connection. Connect air hose properly.
- Step 3. Check to see if semitrailer air reservoir drain cock

is open.

Close air reservoir drain cock.

Step 4. Check to see if air pressure is low.

Check air pressure gage on towing vehicle. Remove any restrictions in air lines. Make leakage test. With air hose couplings connected and brake applied, coat couplings, connectors and fittings with soap and water solution. No leaks are permissible.

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MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

BRAKE SYSTEM (cont)

Step 5. Check to see if brake fluid is low in master cylinder.

Fill master cylinder with brake fluid to one-half inch to three-eighths of an inch below top of reservoir.

Step 6. Check for air in hydraulic brake system.

Bleed hydraulic brake system (para 4-18).

Step 7. Check relay valve for defect.

Perform operating test (para 4-25). Replace relay valve if necessary.

Step 8. Check for leaks in hydraulic system.

Tighten or replace connections.

Step 9. Check to see if brakes are out of adjustment.

Adjust brakes (para 4-17).

Step 10. Inspect for grease or brake fluid on brake lining (1).

> Replace brake shoe if lining has grease or brake fluid (para 4-20). Check and replace wheel cylinder, if necessary (para 4-21).



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MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

BRAKE SYSTEM (cont)

Step 11. Check for worn brake linings.

Replace brake shoe if lining is worn to within 1/16 in. of rivet heads (para 4-20).

Step 12. Check for wheel cylinder leaks.

Replace defective wheel cylinder (para 4-21).

Step 13. Check for master cylinder leaks.

Replace defective master cylinder (para 4-23).

7. SLOW BRAKE APPLICATION OR SLOW RELEASE.

Step 1. Check to see if air pressure is low.

Check air supply. Make leakage test (paras 4-24, 4-25, 4-26, 4-28).

Step 2. Check relay valve.

Perform operating test (para 4-25) and replace if necessary. Step 3. Check for insufficient brake fluid in master cylinder.

Fill master cylinder with brake fluid until fluid level is one-half to three-eighths of an inch below top of reservoir (para 4-23).

Step 4. Check for air in hydraulic brake system. Bleed hydraulic brake system (para 4-18).

- Step 5. Check for weak or broken brake shoe return spring. Replace spring (para 4-19).
- Step 6. Check for wheel cylinder leaks.

Replace defective wheel cylinder (para 4-21).

Step 7. Check for master cylinder leaks.

Replace defective master cylinder (para 4-23).

4-20

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MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

BRAKE SYSTEM (cont)

8. GRABBING BRAKES.

Step 1. Check relay valve.

Perform operating test (para 4-25). Replace relay valve if necessary.

Step 2. Check to see if brakes are out of adjustment. Adjust brakes (para 4-17).

Step 3. Check for loose or worn wheel bearings.

Adjust wheel bearings (para 4-30). If they cannot be adjusted properly, replace wheel bearings (para 4-30).

Step 4. Check for air in hydraulic brake system.

Bleed hydraulic brake system (para 4-18).

Step 5. Check for grease on brake lining.

Replace brake shoe (para 4-20). Replace oil seal if necessary (para 4-30).

Step 6. Check for cracked, scored, or deformed brake drum. Replace defective brake drum (para 4-30).

Step 7. Check for loose or worn brake lining. Replace brake shoe (para 4-20).

- 9. BRAKE DRUM RUNNING HOT.
 - Step 1. Check to see if brakes are adjusted too tightly. Adjust brakes (para 4-17).
 - Step 2. Check for weak or worn brake shoe return spring. Replace defective spring (para 4-19).
 - Step 3. Check for deformed brake drum.

Replace deformed brake drum (para 4-30).

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

BRAKE SYSTEM (cont)

10. UNEVEN BRAKING.

- Step 1. Check to see if brakes are out of adjustment. Adjust brakes (para 4-17).
- Step 2. Check for grease on brake lining. Replace brake shoe (para 4-20). Replace oil seal if necessary (para 4-30).
- Step 3. Check for wheel cylinder leaks. Replace defective wheel cylinder (para 4-21).

11. NOISY BRAKES.

Step 1. Check for loose rivets or loose lining.

Replace brake shoe (para 4-20).

Step 2. Check for grit, rust or metal particles in brake drum.

Clean brake drum and brake components.

Step 3. Check for scored or deformed brake drum. Replace defective brake drum (para 4-30).

WHEELS AND HUBS

12. WHEEL NOISE.

Step 1. Check to see if wheel bearings are too tight. Adjust wheel bearings (para 4-30).

Step 2. Check for worn wheel bearings.

Replace worn wheel bearings (para 4-30).

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MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

WHEELS AND HUBS (cont)

Step 3. Check for worn brake lining or lining that is too tight against drum. Adjust brakes or replace brake shoes (para 4-20).

13. WHEEL WOBBLE.

Step 1. Check wheel bearings for wear or damage.

Replace worn or damaged wheel bearings (para 4-30).

Step 2. Check to see if wheel bearings are too loose.

Adjust or replace loose wheel bearings (para 4-30).

Step 3. Check for bent or damaged wheel. Replace bent or damaged wheel (para 3-7).

14. EXCESSIVELY WORN, SCUFFED OR CUPPED TIRES.

Step 1. Check for improper tire pressure.

Inflate to correct pressure: highway, 70 psi (482.65 k pa), cross-country, 45 psi (310.28 k pa), soft sand, 45 psi (310.28 k pa).

Step 2. Check for loose wheels.

Tighten wheel nuts. Torque to 450-500 lb-ft (610-678 Nm). Step 3. Check for loose wheel bearings.

Adjust wheel bearings (para 4-30).

Step 4. Check for deformed wheel or rim.

Replace defective wheel (para 3-7).

Step 5. Check for deformed brake drum.

Replace deformed brake drum (para 4-30).

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

LANDING GEAR

15. ERRACTIC OPERATION (BINDING AND GRINDING).

Step 1. Check for grit and dirt on leg (1).

Clean and lubricate leg (1) and gear box (2) in accordance with lubrication chart.

Step 2. Check for damaged leg.

Replace landing gear if damaged (para 4-33).



LEVELING JACK

- 16. JACK IS HARD TO OPERATE.
 - Step 1. Check for grit and dirt on leg (1).

Clean and lubricate leg (1) and gear box (2) in accordance with lubrication chart.

Step 2. Check for damaged leg.

Replace leveling jack if damaged (para 4-32).

17. JACK SHOE WILL NOT SET ON BASE. Check jack shoe (3).

Replace defective jack shoe.



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4 - 24

TEST OR INSPECTION

CORRECTIVE ACTION

SUSPENSION SYSTEM

18. PULLING TO LEFT OR RIGHT.

Step 1. Check for dragging brakes.

Adjust brakes (para 4-17).

Step 2. Check for improper wheel bearing adjustment. Adjust bearings (para 4-30).

Step 3. Check for loose suspension spring.

Tighten U-bolt nuts. Torque to 880 lb-ft (1193.3 Nm) dry or 660 lb-ft (895 Nm) lube.

19. SEMITRAILER LEANS TO ONE SIDE.

Check for broken spring leaves. Notify direct support.

DOORS

20. DIFFICULTY IN LOCKING OR UNLOCKING DOORS.

Step 1. Check center lock, slide bolts and striker plates for rust and corrosion (para 4-38).

Clean and lubricate.

Step 2. Check if door is hard to lock.

Add shim stock as required under center lock and/or slide bolt guides (para 4-38).

Step 3. Check for good weather tight seal when door is in closed and locked position.

Add shim stock as required under striker plate of flush bolts.

Replace defective lock assembly (para 4-38).

4-25

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MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

DOORS (cont)

21. DOOR HINGES DO NOT OPERATE PROPERLY. Step 1. Check for rust on hinge bolt. Remove rust and lubricate. Step 2. Check for cracked or broken hinge. Replace defective hinge (para 4-38).

4-26



Section V. ELECTRICAL SYSTEM MAINTENANCE PROCEDURES

WARNING

Make sure all electrical power is disconnected before performing any maintenance on the electrical system. Serious injury or death may result if proper precautions are not taken.

4-10. GENERAL

- 1. The XM1006 semitrailer is equipped with two intervehicular cable receptacles, located at lower left corner of front of vehicle.
- 2. The 12-pin, 24-volt receptacle is located above the 7-pin, 12-volt receptacle.
- 3. A system of resistors and circuit breakers makes it possible to use a towing vehicle with either a 12-volt or a 24-volt electrical system.
- Refer to semitrailer wiring diagrams (pages 4-28 and 4-29) before connecting any disconnected wires.



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Wiring diagram, XM1006 semitrailer

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4-28

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Wiring diagram, resistor box

TA 245437

4-29



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4-11. RESISTOR BOX

THIS TASK COVERS

- Removal of resistor a.
- Inspection of resistor Ъ.
- Installation of resistor c.
- Testing circuit breaker d.
- Removal of circuit breaker e.
- f. Installation of circuit breaker

Test Equipment: Multimeter

Troubleshooting Reference Item No.

- All lights fail 1.
 - to operate
- 3. Dim or flickering lights

Personnel Required: 1





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4-11. RESISTOR BOX (cont)

INSPECTION

- 1. Check resistor contact points (9). Clean as required.
- 2. Using multimeter, check resistors for rated ohms (refer to resistor box wiring diagram, page 4-29).
- 3. Replace cracked, chipped or defective resistor.

INSTALLATION OF RESISTOR



- 5. Position cover (3) and rubber strip (10) and secure with eight screws (2) and washers (1).
- 6. Connect power source.

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4-11. RESISTOR BOX (cont) TESTING CIRCUIT BREAKER

- 1. Connect two terminals of circuit breaker to a fused variable current source of 12-volt dc.
- 2. Increase current to 5% above rating shown on circuit breaker. The breaker should open the circuit in not less than two nor more than five minutes.

REMOVAL OF CIRCUIT BREAKER



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REMOVAL OF RESISTOR BOX 24-VOLT RECEPTACLE (cont)



CLEANING AND INSPECTION

WARNING

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (58.8°C).

- 1. Clean all parts with cleaning solvent (item 3, appendix E).
- Inspect for cracks, breaks or other damage. Replace defective parts.

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4-12. INTERVEHICULAR CABLE RECEPTACLE (cont)

INSTALLATION OF RESISTOR BOX 12-VOLT RECEPTACLE

- 1. Clean and inspect receptacle in accordance with the procedure for the 24-volt receptacle (page 4-34).
- 2. Aline holes in resistor box cover (3) with holes in receptacle (5).
- 3. Secure with two screws (4), washers (2) and nuts (1).
- 4. Insert each wire into its proper position at rear of receptacle (refer to wiring diagrams, pages 4-28 and 4-29) and secure with screws (6).



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dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 158°F (58.8°C).

- 1. Clean all parts with cleaning solvent (item 3, appendix E).
- 2. Inspect for cracks, breaks or other damage.
- 3. Replace defective parts.

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- 4. Make certain power source is disconnected and make a continuity check of all circuits throughout semitrailer, using multimeter.
- 5. Wrap exposed wire and nut with tape.
- 6. Insert receptacle into hole in chassis.



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MAIN HARNESS RECEPTACLE (cont) INSTALLATION (cont) 9. Connect dolly harness recept-3 acle (2) to main harness 2 receptacle (3) and secure with nut (1). 1. Nut 2. Dolly harness receptacle Main harness receptacle 3. 4-13. MARKER CLEARANCE LIGHT

THIS TASK COVERS

- a. Lamp replacement
- b. Removal
- c. Cleaning and inspection
- d. Installation

Troubleshooting Reference Item No.

3. Dim or flickering lights

LAMP REPLACEMENT

NOTE

All semitrailer running lights are controlled by the electrical system of the towing vehicle. A master switch on the towing vehicle controls the service and blackout modes of operation of the lights. Place this switch in the proper position prior to testing the lamps after installation. Lamps will not light if towing vehicle switch is in the OFF position.

- 1. Remove two screws (1) securing lens (2). Remove lens.
- Push in on lamp (3), turning counterclockwise to remove from socket.
- 3. Insert new lamp (3) into socket. Press in and turn clockwise.
- 4. Test lamp by turning on switch in towing vehicle.
- 5. Position lens (2) on light and secure with two screws (1).

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CLEANING AND INSPECTION

WARNING

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (58.8°C).

- 1. Clean all parts, except rubber items or gaskets, with cleaning solvent (item 3, appendix E).
- 2. Inspect body for cracks, warpage, cracked or broken lens, or evidence of leakage.
- 3. Make sure all parts are in good condition and will make good electrical contact and watertight connections.

INSTALLATION

- 1. Place wire (5) over two contact points (6) on rear of light.
- 2. Position insert (7) and press down to compress wire against contact points and provide electrical contact.
- 3. Secure light with two screws (4).
- 4. Position lens (2) and secure with two screws (1).

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4-14. STOP AND MARKER LIGHT

THIS TASK COVERS

- a. Removal
- Installation Ъ.

Troubleshooting Reference Item No.

- 1. All lights fail to operate
- Dim or flickering lights 2.
- Directional signals inoperative 3.
- Disconnect electrical connector at rear of light. Remove three screws (1) securing light (2). Replace defective light (2). 0 1. Position light (2) and secure with three screws (1). 0 2. Connect electrical connector. Test light by turning on switch in towing vehicle and depressing brake pedal.

REMOVAL

- 1.
- 2.

INSTALLATION

- 3.



THIS TASK COVERS

- Removal a.
- Lamp replacement ь.
- Cleaning c.
- d. Inspection
- e. Assembly
- Installátion d.
- All lights fail to operate
- One or more lamps will not light
- Dim or flickering lights
- 4. Directional signals inoperative

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Troubleshooting Reference Item No. 1. 2. 3.

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2. Light

4-15. COMPOSITE STOPLIGHT TAILLIGHT (cont)

REMOVAL

- Tag and disconnect four electrical stoplight connectors (6) from chassis harness connectors.
- Reach behind dolly frame and remove two screws (5) and lock washers (4) securing light assembly to mounting channel in dolly crossmember. Remove light.

LAMP REPLACEMENT

- Loosen six retaining screws (1) on lens assembly (2).
- 2. Remove lens assembly (2) with attached preformed packing (3).
- 3. Push in on lamp (4, 5, or 6) and turn counterclockwise to remove.
- Insert lamp (4, 5, or 6) in socket, push in and turn clockwise.
- 5. Test lamps as follows: Turn service switch on towing vehicle to ON position to test service tail lamp (5).
- Operate brake pedal on towing vehicle to test stoplight lamp (4). STOPLIGHT
- Operate turn signal lever in towing vehicle to test operation of turn signal lamp (4).
- Test blackout lamp (6) by placing towing vehicle switch in BLACKOUT mode of operation and then operating the proper switch, brake pedal, or turn signal lever.



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4-15. COMPOSITE STOPLIGHT TAILLIGHT (cont)

CLEANING

CAUTION

Do not use cleaning solvent. It will damage the body of the light.

- 1. Clean exterior of light, using clean water and soap solution.
- 2. Clean interior of body and lens assembly, using clean water and soap solution. Dry thoroughly.

INSPECTION

- 1. Inspect preformed packing and replace if damaged.
- 2. Inspect lens assembly for cracks, warpage, or broken lens. Replace lens assembly if defective.
- 3. Inspect wiring and sockets. Replace light assembly if defective.

ASSEMBLY

- 1. Position preformed packing (3) and lens assembly (2) on body (7).
- 2. Secure with six captive screws (1).



INSTALLATION

- 1. Position light assembly on mounting channel and secure with two screws (5) and lock washers (4).
- 2. Connect the four connectors (6) to the chassis harness connectors.
- 3. Test operation of light. Operate turn signal lever in towing vehicle to test operation of turn signal lamp.
- 4. Test blackout lamp by placing towing vehicle switch in BLACKOUT mode and then operating the proper switch, brake pedal and turn signal lever.



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Section VI. BRAKE SYSTEM MAINTENANCE PROCEDURES

4-16. GENERAL

The following paragraphs cover procedures for removal, disassembly, assembly and installation of brake shoe assembly, wheel cylinder assembly, master cylinder assembly, brake air chamber assembly, relay valve, hydraulic lines and air lines. These paragraphs also cover brake adjustment, bleeding the hydraulic brake system, cleaning, inspection and repair of hydraulic lines and air lines.

The service brakes are air-over-hydraulic type with automatic break-away protection. When the semitrailer brake system is properly connected to the service brake system of the towing vehicle, the towing vehicle brake pedal operates the brakes on both vehicles.

4-17. BRAKE ADJUSTMENT

THIS TASK COVERS

- a. Minor adjustmentb. Major adjustment
- Troubleshooting Reference Item No.
 - 6. No brakes or weak brakes
 - 8. Grabbing brakes
 - 9. Brake drum running hot
 - 10. Uneven braking

Test Equipment Required: None Personnel Required: 1

- 1. Release pressure from braking system by opening drain cock on air reservoir.
- 2. Place jack under axle and raise rear of semitrailer until tires clear ground.

NOTE

Try to laterally rock wheel, hub and brake drum assembly on axle spindle. If rocking condition exists, adjust wheel bearings (para 4-30) before making brake adjustment.

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4-17. BRAKE ADJUSTMENT (cont)

MINOR ADJUSTMENT

- 3. Minor adjustment is adjustment of brake shoes to correct for normal lining wear.
- 4. Turn rear adjustment cam on back side of backing plate counterclockwise until brake drags slightly when wheel is turned by hand.
- 5. Turn adjustment cam clockwise just enough to allow wheel to turn freely.
- 6. Turn forward adjustment cam clockwise until brake drags slightly when wheel is turned by hand.
- 7. Turn adjustment cam counterclockwise just enough to allow wheel to turn freely.
- 8. Repeat above procedures on remaining wheels.
- 9. When adjustments are completed, close air reservoir drain cock.

MAJOR ADJUSTMENT

- 1. Major adjustment is brake shoe adjustment following removal and installation of brake shoes.
- 2. With wheels removed, remove nut (4) and washer (3) securing inspection hole cover (2) to brake drum (1). Remove cover.
- 3. Rotate brake drum until inspection hole is 1-½ inches above lower end of rear brake shoe.

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MAJOR ADJUSTMENT (cont)

- 4. Insert feeler gage in inspection hole to determine clearance between brake shoe and drum.
- 5. Clearance should be 0.010 inch at this point. If this clearance is obtained, no further adjustment is required. If clearance is not 0.010 inch, proceed with the following steps:
- 6. Loosen rear anchor pin lock nut on back side of backing plate to adjust clearance between brake shoe and drum.
- Holding lock nut, turn anchor pin until 0.010 inch clearance is obtained.
- 8. Turn anchor pin clockwise to reduce clearance. Turn anchor pin counterclockwise to increase clearance.



- 9. Rotate brake drum until inspection hole is 1-½ inches below upper end of brake shoe.
- 10. Insert feeler gage in inspection hole to determine clearance between brake shoe and drum.
- 11. Clearance should be 0.020 inch at this point.
- 12. Turn rear adjustment cam until clearance between brake shoe and drum, measured by feeler gage, is 0.020 inch.
- 13. Turn cam counterclockwise to reduce clearance. Turn cam clockwise to increase clearance.
- 14. Recheck to be sure that 0.010 inch clearance is maintained at lower end of rear shoe.
- 15. Adjust clearance between lower and upper ends of front brake shoe and drum as described above.
- 16. Clearance between upper end of front brake shoe and drum is increased by turning front shoe adjustment cam counterclockwise and decreased by turning cam clockwise.
- 17. Clearance between lower end of front brake shoe and drum is decreased by turning front anchor pin counterclockwise, and increased by turning anchor pin clockwise.
- 18. Hold anchor pins to prevent them from turning and tighten anchor pin lock nuts. Check brake shoe clearance again.
- 19. Position inspection hole cover (2) on brake drum (1) and secure with nut (4) and washer (3).

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4-18. BLEEDING HYDRAULIC BRAKE SYSTEM

GENERAL

Proper operation of brake system requires a solid column of fluid (without air bubbles).

Bleed the system to expel any air which may have entered. Need for bleeding is generally indicated by soft brake action.

Bleeding can be done manually or with pressure feed filler. Towing vehicle must be coupled to semitrailer for manual bleeding operation.

Front axle wheels and rear axle wheels should be bled individually and each applicable master cylinder used (see hydraulic system schematic, page 4-70).

MANUAL BLEEDING

- 1. Connect the towing vehicle SERVICE and EMERGENCY brake line air couplings to their proper semitrailer gladhands and open shut off valves on towing vehicle air supply lines.
- 2. Clean the bleeder valve (1) in hydraulic wheel cylinder and attach tube (2) to bleeder valve. Submerge opposite tube end in bottle or jar partially filled with hydraulic brake fluid.

CAUTION

Do not reuse brake fluid when refilling master cylinder. Use clean fluid as required on lubrication chart.

 Fill the hydraulic master cylinder with brake fluid until fluid level is 1/2inch to 3/8-inch below top of reservoir.



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4-18. BLEEDING HYDRAULIC BRAKE SYSTEM (cont)

MANUAL BLEEDING (cont)

- 4. Rotate bleeder valve threequarters of a turn counterclockwise.
- 5. Depress towing vehicle brake pedal to expel air.
- 6. Close bleeder valve before releasing brake pedal.



CAUTION

Do not pump master cylinder dry. Damage may result to the braking system.

- 7. Expelled air will show as bubbles coming out of tube. Continue step 5 above until air bubbles cease.
- 8. Remove bleeder tube.
- 9. Repeat steps 1 through 5 on remaining wheel cylinders, replenishing fluid in master cylinder reservoir as necessary.
- 10. Close towing vehicle shutoff valves, open air reservoir drain cock and disconnect towing vehicle SERVICE and EMERGENCY air line couplings from semitrailer couplings.
- 11. Install filler plug and vent tube in top of master cylinder reservoir.
- 12. Close air reservoir drain cock.

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4-18. BLEEDING HYDRAULIC BRAKE SYSTEM (cont)

PRESSURE FEED FILLER BLEEDING

 Remove filler plug (2) and vent tube assembly (3), install pressure feed adapter in master cylinder filler hole, and connect pressure feed filler hose to pressure feed adapter.

NOTE

Master cylinder reservoir should contain from 10 to 20 psi (68.95 to 137.90 k pa) air pressure and sufficient fluid to maintain a constant level in master cylinder assembly.

- 2. Bleed system as in manual bleeding (steps 2, 4, 6 and 9 above), except that replenishing of brake fluid and manual operation of vehicle brake pedal are not required.
- 3. Remove pressure feed filler hose and pressure feed adapter from master cylinder (1) and install filler plug (2) and vent tube assembly (3).

Master cylinder
 Filler plug
 Vent tube assembly

4-19. BRAKE RETURN SPRING

THIS TASK COVERS

- a. Removal
- b. Inspection
- c. Installation

Troubleshooting Reference

- Item No.
 - 5. Brakes will not release
 - 7. Slow brake application or
 - slow release Brake drum runn
 - 9 Brake drum running hot

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4-50





- 1. Inspect spring for rust, distortion and excessive wear.
- 2. Replace worn or defective spring.

INSTALLATION

- Place spring in position. 1.
- 2. Install hub and brake drum on axle (para 4-30).
- 3. Install wheel on hub (para 3-7).
- 4. Bleed and adjust brakes (para 4-18, 4-17).

4-20. BRAKE SHOE

THIS TASK COVERS

- a. General
- Ъ. Inspection
- Removal c.

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d. Installation Troubleshooting Reference

- Item No.
 - 6 No brakes or weak brakes
 - 8 Grabbing brakes
 - 10 Uneven braking
 - 11 Noisy brakes
 - 12 Wheel noise

Test Equipment Required: None Personnel Required: 1

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4-20. BRAKE SHOE (cont)

GENERAL

Two brake shoes are mounted on each backing plate.

Lower ends of shoes are secured to backing plate by anchor pins and lock nuts.

Upper ends of shoes are retained by slotted C-type washers installed on guide pins attached to backing plate.

Each shoe pivots on its anchor pin.



INSPECTION

- 1. Inspect brake shoe lining for wear.
- 2. If braking surface is within 3/16 inch of rivet head or grease or hydraulic fluid is present, replace brake shoe.

REMOVAL

- 1. Open air reservoir drain cock (para 2-19).
- 2. Remove wheel from hub (para 3-7).
- 3. Remove hub and drum assembly (para 4-30).

4. Install clamps over ends of wheel cylinder to hold wheel cylinder in position.



5. Unhook return spring from both brake shoes.

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4-20. BRAKE SHOE (cont)

INSTALLATION (cont)

- 3. Install plain washers on both guide pins.
- 4. Position brake shoes on guide pins with anchor pins inserted in holes at bottom of backing plate.
- 5. Make sure wheel cylinder push rods engage slots in upper ends of brake shoes.
- 6. Install slotted C-washers on guide pins.
- 7. Install hub and brake drum assembly (para 4-30).
- 8. Install wheel on hub (para 3-7).
- 9. Bleed and adjust brakes (paras 4-18, 4-17).

4-21. HYDRAULIC WHEEL CYLINDER

THIS TASK COVERS

- a. Removal Troubleshooting Reference b. Installation Item No.
 - 6 No brakes or weak brakes
 - 7 Slow brake application
 - or slow release
 - 10 Uneven braking

Test Equipment Required: None

Personnel Required: 1

REMOVAL

- 1. Remove wheel (para 3-7).
- 2. Remove hub and brake drum (para 4-30).
- 3. Unscrew connector securing hydraulic brake line to wheel cylinder at back side of backing plate.
- 4. Remove line from cylinder.
- 5. Unhook return spring from one of brake shoes.

4-21. HYDRAULIC WHEEL CYLINDER (cont)



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4-21.
       HYDRAULIC WHEEL CYLINDER (cont)
INSTALLATION (cont)
4.
    Install return spring between brake shoes.
5.
    Position hydraulic brake line at wheel cylinder inlet, rear
    of backing plate, and tighten connector.
6.
    Install hub and drum assembly (para 4-30).
7.
    Install wheel (para 3-7).
8.
    Bleed wheel cylinder.
9.
   Adjust brakes, using minor adjustment procedure (para 4-17).
4-22.
       BRAKE BACKING PLATE
THIS TASK COVERS
    а.
        Removal
        Inspection
    ь.
        Installation
    c.
Test Equipment Required: None
                                          Personnel Required: 1
REMOVAL
1.
    Remove wheel (para 3-7).
2.
   Remove hub and brake drum (para 4-30).
```

3. Remove fluid passage bolt (2), spacer (3) and washer (5) securing connector (4) and hydraulic brake line (6) to rear of backing plate (1).



- 5. Washer
- 6. Hydraulic line



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4-22. BRAKE BACKING PLATE (cont)

INSPECTION

- 1. Inspect adjusting cam. Replace if defective.
- 2. Inspect adjusting spring for rust, tension and excessive wear. Replace worn or defective spring.
- 3. Inspect brake mounting guide pin for damaged threads. Replace defective guide pin.
- 4. Inspect backing plate. Straighten and paint as required. Replace if cannot be made serviceable.

INSTALLATION



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INS	TALI	ATION	(cont)						
3.	Sli axl Sec fla and	de back e spind ure bac nge (2) nuts (ing plate lle. king plate with scre 3).	(1) on e to axle ews (4)		3 2			
							1. 2. 3. 4.	Backing p Axle flar Nut Screw	olate nge
5. 6.	Con Ins	nect hy tall hu	draulic li	ine to rea n (para 4-	ar of -30).	backin	ng pl	.ate.	
5. 6. 7. 8. 4-2:	Con Ins Ins Ble	nect hy tall hu tall wh ed and HYDRAUI	draulic li b and drum eel (para adjust bra .IC MASTER	ine to rea n (para 4- 3-7). akes (para CYLINDER	ar of -30). a 4-1	backin 8, 4-17	ng pl	ate.	
5. 6. 7. 8. 4-23 THIS	Con Ins Ble 3. 5 TA	nect hy tall hu tall wh ed and HYDRAUI SK COVE	draulic li b and drum heel (para adjust bra LIC MASTER RS	ine to rea (para 4- 3-7). akes (para CYLINDER	ar of -30). 4 4-1	backin 8, 4-17	g pl	ate.	
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4-23. HYDRAULIC MASTER CYLINDER (cont)

SERVICING (cont)

- 1. Loosen vent tube nut and remove vent tube assembly.
- 2. Remove filler plug and spacer from top of master cylinder.
- 3. Fill with brake fluid (item 8, appendix E) to 1/2 to 3/8-in. of top of master cylinder reservoir.
- 4. Install spacer and filler plug; tighten filler plug.
- 5. Install and tighten vent tube assembly.



REMOVAL

4-60

WARNING

Wear goggles when opening air reservoir drain cock. Failure to do so could cause serious eye injury from high pressure air.

- Release air pressure from system by opening drain cock on air reservoir.
- 2. Place a can or a bucket below the flexible hose (2) at rear of master cylinder (1) to catch any fluid spilled during removal.
 - 1. Master cylinder
 - 2. Flexible hose







4-24. BRAKE AIR CHAMBER

THIS TASK COVERS

- a. Leakage test
- b. Push rod travel test
- c. Removal
- d. Installation

Test Equipment Required: None

Personnel Required: 2

LEAKAGE TEST

- 1. With brakes applied, coat air chamber flange with soap and water solution and inspect for leaks.
- 2. If leakage is detected, tighten securing hardware sufficiently to stop any leaks. No leakage is permissible.
- 3. Check non-pressure side of air chamber for leaks by applying soap and water solution to holes in chamber body. If leakage exists, replace air chamber.

PUSH ROD TRAVEL TEST

- 1. Connect intervehicular air hose couplings.
- 2. With the brakes released, insert a small rod through one of two inspection holes in left side of brake air chamber. Mark rod, indicating distance traveled to contact push rod.
- 3. Apply the brakes and again mark rod at surface of mounting bracket with rod in contact with push rod.
- 4. Withdraw the rod and measure distance between marks. This indicates amount of piston travel.
- Adjust the brakes (para 4-17), if necessary, to permit a minimum of one-half inch to a maximum of seven-eighths of an inch travel.



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BRAKE AIR

CHAMBER

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-24.	BRAKE	AIR	CHAMBER	(cont)
				•

4

REMOVAL

WARNING

Air under 100 psi air pressure is used in the operation of the brake air system. Serious injury or death can result unless proper precautions are taken.

BRAKE AIR

CHAMBER

TUBE

- 1. Release air pressure from system by opening drain cock on the air reservoir. (See illustration in para 4-26).
- 2. Disconnect air chamber-torelay valve tubes.
- Remove two nuts and lock washers attaching air chamber to bracket. 3.
- 4. Remove air chamber, being careful not to damage rubber bellows.

INSTALLATION

- 1. Position air chamber mounting studs through bracket. Secure with two nuts and lock washers.
- 2. Connect air chamber-to-relay valve tubes.
- 3. Close drain cock on air reservoir.
- 4. Add hydraulic fluid to master cylinder (para 4-21).

None

5. Bleed and adjust brakes (para 4-18, 4-17).

4-25. **RELAY VALVE**

THIS TASK COVERS

- Drainage of moisture a.
- Operating test Ъ.
- Leakage test с.
- d. Removal
- Installation e.

Troubleshooting Reference Item No.

- Brakes will not release 5.
- No brakes or weak brakes 6.
- 7. Slow brake application or slow release
- 8. Grabbing brakes

Personnel Required: 2

> TA 245469 4-63

Test Equipment Required:





4-25. RELAY VALVE (cont)

DRAINAGE OF MOISTURE

- 1. Remove drain plug from bottom of relay valve by turning it counterclockwise.
- 2. Allow moisture to drain. Insert drain plug in position and turn clockwise to tighten.

OPERATING TEST

- 1. With brake air system of semitrailer connected and charged, check if brakes apply properly.
- 2. Release brakes and check whether air pressure is being exhausted promptly.
- 3. With semitrailer brake system fully charged, close shutoff valve in emergency line tube on towing vehicle and disconnect brake air hose coupling tagged EMERGENCY. Check whether semitrailer brakes apply automatically.
- 4. Connect brake air hose to coupling tagged EMERGENCY. Open shutoff valve on towing vehicle and check for automatic semitrailer release of brakes.

LEAKAGE TEST

- With brake air system of semitrailer connected and charged, apply soap and water solution to cover flanges which hold diaphragms and to brake air hose coupling tagged SERVICE. No leakage should be present. If leaks are detected, tighten attaching hardware and tighten coupling as required.
- 2. Coat exhaust port with soap and water solution. Apply brakes and check for leaks.
- 3. Release brakes and apply soap and water solution to exhaust port and check for leakage.
- Disconnect EMERGENCY coupling (step 3, operating test), coat exhaust port with soap and water solution and check for leaks.



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4-26. AIR RESERVOIR (cont)

LEAKAGE TEST

- 1. With brake system charged, coat drain cock, air connections and outside of air reservoir with soap and water solution and check for air leaks. No leakage is permissible.
- 2. Tighten any leaking connections.
- 3. Inspect for damage or corrosion.
- 4. Replace reservoir if it leaks or if any damage or corrosion is found that would weaken reservoir.



DRAIN COCK LEAKAGE TEST

- 1. With brake system charged, coat drain cock with soap and water solution.
- 2. Leaks in excess of a three-inch bubble in three seconds are not permissible.

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4-26. AIR RESERVOIR (cont) DRAIN COCK LEAKAGE TEST (cont)

- 3. Leakage due to dirt accumulation can be corrected by cleaning and applying a coat of Artillery and Automotive Grease (GAA) on the drain cock threads before assembly.
- 4. Leakage due to a damaged part requires replacement of the drain cock.

REMOVAL OF DRAIN COCK

WARNING

Wear goggles when opening air reservoir drain cock. Failure to do so could cause serious eye injury from high pressure air.

- 1. Open drain cock to release air from reservoir.
- 2. Remove drain cock by turning it counterclockwise.

CLEANING AND INSPECTION OF DRAIN COCK

WARNING

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (58.8°C).

- 1. Clean with cleaning solvent (item 3, appendix E).
- 2. Inspect for damage or excessive wear.
- 3. Replace defective drain cock.

INSTALLATION OF DRAIN COCK

- 1. Apply sealer tape to drain cock threads.
- 2. Take care not to damage drain cock during installation. Insert in position and secure by turning in a clockwise direction.

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4-27. GLADHAND (AIR HALF-COUPLING)

THIS TASK COVERS

- a. Removal
- b. Cleaning
- c. Inspection and replacement
- d. Installation of packing ring
- e. Installation
- Test Equipment Required: None
- Personnel Required: 1



CLEANING

1. Clean mud and dirt from all exposed surfaces with water and a stiff brush.

WARNING

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (58.8°C).

2. Remove grease with cleaning solvent (item 3, appendix E).

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	4-2	7. GLADHAND (cont)	
	INS	PECTION AND REPLACEMENT	
)	1.	Inspect gladhand body for damaged threads or cracks. Replace glad- hand if damaged.	
	2.	Check packing ring for wear and deterioration.	
	3.	Replace defective packing ring(1).	
~	INS	TALLATION OF PACKING RING	
	1.	Clean groove in gladhand from which packing ring was removed.	
	2.	Partially collapse ring with fingers and insert one side of ring flange in groove.	
	3.	Push ring into place. Face of ring 1. Packing ring must lie flat, with no twist or bulge.	
l	INSTALLATION 1. Position gladhand and secure to body with two screws. 2. Secure air line to gladhand with air line nut.		
l	4-20 THIS	S TASK COVERS	
		a. GeneralTroubleshooting Referenceb. Serviceability testItem Noc. Removal of hydraulic hose5. Brakes will notd. Installation of hydraulic hosereleasee. Removal of tube fitting6. No brakes or weakf. Installation of tube fittingbrakes	
	Test	t Equipment Required: None Personnel Required: 1	
[GENI	ERAL	
	Hydı exce hydı	raulic and air tubing and fittings are not ordinarily removed ept for replacement. Refer to pages 4-70 and 4-71 for air and raulic systems schematics.	
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		4-69	

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4-28. HOSE, TUBING AND FITTINGS (cont)

GENERAL (cont)

Replace bent, kinked, or damaged lines and fittings.

Keep all lines tightly attached.

Any disconnection or replacement of hydraulic tubing or fitting will require bleeding of the brake system (para 4-18).

SERVICEABILITY TEST

- 1. With brake air hose couplings of intervehicular air hose connected and brakes applied, coat hose couplings and connectors of air hose, fittings of emergency and service air line tubes, and air tubes with soap and water solution. No leakage is permissible.
- 2. Examine hydraulic lines, flexible line and fittings. Tighten fittings if leaks are found. No leakage is permissible.



Brake hydraulic system schematic

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15. Gladhand, emergency

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8.

Gladhand, emergency

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4-2	28. HOSE, TUBING AND FITTINGS (AIR AND HYDRAULIC) (cont)
REM	IOVAL OF TUBE FITTING
1.	Unscrew tube nut from tube fitting.
2.	Serviceable tube fittings and tube nuts may be reused, but compres- sion sleeves must be replaced.
INS	TALLATION OF TUBE FITTING
1.	Cut tubing with hacksaw or tube cutter, making sure end is smooth and cut squarely with tubing wall. Do not crimp or partially close ends.
2.	Ream and file tubing end to remove burrs. Blow out to remove cuttings or filings.
3.	Place nut and new sleeve on tube and insert end of tube into recess in fitting body.
4.	Hold tube at bottom of recess and tighten tube nut until sufficient pressure is placed on sleeve to prevent leakage. Do not cross thread.

Section VII. WHEEL, HUB AND BRAKE DRUM MAINTENANCE PROCEDURES

4-29. WHEEL, HUB AND BRAKE DRUM

WHEELS

Refer to paragraph 3-7.

TIRES

Refer to TM 9-2610-200-20 for removal, servicing and installation of tires.

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4-30. HUB AND BRAKE DRUM

THIS TASK COVERS

- a. Removal of hub and brake drum assembly from axle
- b. Removal of brake drum from hub
- c. Cleaning
- d. Inspection and replacement
- e. Installation of brake drum on hub
- f. Installation of hub and brake drum assembly on axle

Item No. 8. Grabbing brakes

Troubleshooting Reference

- 9. Brake drum running hot
- 11. Noisy brakes
- 12. Wheel noise
- 13. Wheel wobble

Test Equipment Required: None

Personnel Required: 1

REMOVAL OF HUB AND BRAKE DRUM FROM AXLE

- Remove six screws (1) and washers (2) securing hub cap (3) and gasket (4) to hub.
- 2. Remove hub cap and gasket.
- Using a screw driver, lift bent-over lock tabs of key washer (6) to release outer bearing adjusting nut (5).
- 4. Remove outer bearing adjusting nut (5), using wheel bearing locknut wrench.
- 5. Slide off key washer (6).
- Remove inner bearing adjusting nut (5), using same wrench.
- 7. Move hub and drum assembly (8) slightly on axle spindle to loosen outer tapered roller bearing (7). Remove bearing.



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4-30. HUB AND BRAKE DRUM (cont)

CLEANING (cont)

- 1. Clean all parts with dry cleaning solvent (item 3, appendix E).
- 2. Dry all parts thoroughly.



INSTALLATION OF BRAKE DRUM ON HUB

- Position hub (8) on adapter
 (2) and secure with six ribbed shoulder bolts (7).
- Position brake drum (3) on adapter (2) and place inspection hole cover (4) on drum. Secure with ten ribbed neck bolts (1), washers (5) and nuts (6).





INSTALLATION OF HUB AND BRAKE DRUM ASSEMBLY ON AXLE

- While turning hub slowly, tighten inner bearing adjusting nut, using locknut wrench, until hub binds on spindle. Back off nut about one-eighth turn. Check adjustment by attempting to rock hub on spindle. If bearings are properly adjusted, movement of brake drum in relation to top edge of backing plate will scarcely be visible and brake drum will turn freely. If movement is excessive, repeat procedure.
- 2. Install nut locking key washer (6) on spindle.

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4-30. HUB AND BRAKE DRUM (cont)

INSTALLATION OF HUB AND BRAKE DRUM ASSEMBLY ON AXLE (cont)

NOTE

With a minimum of movement, adjust bearing adjusting nut (5) so that flats of nut will mate with locking lugs on key washer (6).

3. Install outer bearing adjusting nut (5), using wheel bearing locknut wrench, drawing it up tightly against nut locking key washer (6). Take care not to disturb bearing adjustment. 4. Bend one or two locking lugs of key washer (6) over outer and inner adjusting nuts (5). Screw 1. 5. Check bearing adjustment (step 1 above). 2. Washer 3. Hub cap 6. Position hub cap (3) and gasket (4) 4. Gasket and secure with six screws (1) 5. Adjusting nut and washers (2). Key washer 6. Adjust brakes (para 4-17). 7. 7. Bearing

Section VIII. SPARE WHEEL CARRIER, LEVELING JACK AND LANDING GEAR

4-31. SPARE WHEEL CARRIER

THIS TASK COVERS

- a. Removal
- b. Cleaning
- c. Inspection and repair
- d. Replacement of wire rope
- e. Installation

Test Equipment Required: None

Personnel Required: 2



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4-31. SPARE WHEEL CARRIER (cont) REMOVAL 1. Remove spare wheel and tire from carrier (para 2-22). 2. Remove four nuts (4), lock washers (5) and screws (6) securing spare wheel carrier to dolly. 3. Remove carrier. 4. Nut 5. Washer 6. Screw CLEANING

WARNING

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (58.8°C).

- Remove accumulated grease with cleaning solvent (item 3, appendix E).
- 2. Remove all surface dirt with water and stiff brush.

INSPECTION AND REPAIR

- 1. Check upper member (3) for cracks or breaks in welds. Straighten member and weld cracks.
- 2. Check ratchet wheel (1) for wear and alinement. Check weld of ratchet and nut on shaft for cracks or undue teeth wear. Reweld if necessary.
- 3. Replace ratchet wheel (1) by removing cotter pin (2) and wire rope (10). Slide worn ratchet wheel out and new one in; then secure with cotter pin (2) and attach wire rope (10).

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- 8. Lower member
- 9. U-bolt
- 10. Wire rope

11. Washer 12. Nut

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- a. Removal
- b. Cleaning
- c. Inspection and replacement
- d. Installation

Test Equipment Required: None

- Troubleshooting Reference Item No. 16. Jack is hard to
 - 16. Jack is hard to operate 17. Jack shoe will not set
 - on base
- Personnel Required:

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1

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CLEANING

1. Remove dirt with water and stiff brush.

WARNING

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (58.8°C).

2. Remove grease with cleaning solvent (item 3, appendix E).

INSPECTION

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- 1. Inspect housing for damage.
- 2. Check operation of jack. Lubricate in accordance with lubrication chart.
- 3. Replace leveling jack if it is defective.
- 4. Inspect jack shoe for bend. Replace defective shoe.
- 5. Inspect lock pin and chain for wear and damage. Replace defective parts.

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INS	TALLATION	3
1. 2.	Position leveling jack (1). Secure with 14 screws (4), washers (3) and nuts (2). Torque nuts to 173 lb-ft (234.6Nm) dry or 123 lb-ft (166.8Nm) lube. 1. Leveling jack 2. Nut 3. Washer 4. Screw	
4-3 THI	3. LANDING GEAR	
IIII	a. Removal b. Cleaning c. Inspection d. Installation e. Replacement of support and/	Troubleshooting reference Item No. 15. Erratic operation (binding and or brace grinding)
Tes	t Equipment Required: None	Personnel Required: 1
REM	OVAL	2 3
1.	Couple semitrailer to towing veh icle or block semitrailer for support.	
2.	Using crank (6), retract land- ing gear leg (7) part way.	NI MI
1	Remove four nuts (4), washers (2) and screws (2) securing landing gear (1) to supports (5).	"
3.	0 11	



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4-33. LANDING GEAR (cont)

REMOVAL (cont)

4. Remove 12 nuts (4), washers (3) and screws (2) securing landing gear (1) to chassis. Remove landing gear.

CLEANING

1. Remove dirt with water and stiff brush.

WARNING

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (58.8°C).

2. Remove grease with dry cleaning solvent (item 3, appendix E).

INSPECTION

- 1. Inspect housing for damage.
- 2. Check operation of landing gear. Lubricate in accordance with lubrication chart.
- 3. Replace landing gear if it is defective.
- 4. Inspect lock pin and chain for wear and damage. Replace defective parts.

INSTALLATION

- Position landing gear (1) and secure to chassis with 12 nuts (4), washers (3) and screws (2).
- 2. Secure landing gear to two supports (5) with four nuts (4), washers (3) and screws (2). Torque nuts to 173 lb-ft (234.6Nm) dry or 123 lb-ft (166.8Nm) lube.



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4-34. SPLASH GUARD

REMOVAL

- Remove four nuts (1), washers (2) and screws (5) securing splash guard (3) and support plate (4).
- 2. Remove splash guard and support plate.

INSTALLATION

- 1. Position splash guard (3) and support plate (4) on mounting bracket.
- Secure with four screws (5), washers
 (2) and nuts (1).

4-35. DOLLY ASSEMBLY

REMOVAL

- 1. Lower landing gear legs to contact ground.
- 2. Raise leveling jack legs just enough to clear ground, allowing rear wheels to contact ground.
- 3. Remove leveling jack shoes and stow on rear of leveling jacks (para 2-14).
- 4. Position fork lift or hoist so that rear of semitrailer body can be raised.

WARNING

Wear goggles when opening air reservoir drain cock. Failure to do so could cause serious eye injury from high pressure air.

- 5. Open air reservoir drain cock (para 2-19).
- 6. Disconnect both air hoses and the electrical connection at side of dolly assembly.
- 7. Remove 12 nuts (3), 24 washers (2) and 12 screws (1) securing dolly.
 8. Raise rear of semitrailer body to a height permitting removal of dolly and pull dolly assembly
 - 1. Screw 2. Washer 3. Nut

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toward the rear.



- 1. Position fork lift or hoist and raise rear of semitrailer body to permit installation of dolly.
- Push dolly assembly into position underneath the semitrailer body and line up mounting holes in dolly with the mating 2. holes in the undercarriage.
- 3. Secure dolly assembly with 12 screws (1), 24 washers (2), and 12 nuts (3). Tighten nuts to a torque of 200 1b-ft (271.2 Nm).
- 4. Remove leveling jack shoes from stowage on rear of leveling jacks and attach them to the legs (para 2-14).
- Lower leveling jack legs until firm contact is made with 5. the ground.
- Remove hoist or fork lift. 6.
- 7. Connect both air hoses and the electrical connection.
- 8. Close air reservoir drain cock.

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Section IX. REAR PLATFORM AND SIDE PLATFORM MAINTENANCE PROCEDURES

4-36. **REAR PLATFORM**

THIS TASK COVERS

- Removal а.
- Installation Ъ.
- Removal of rubber bumper с.
- Installation of rubber bumper d.
- Removal of chain e.
- Installation of chain f.
- Removal of hinge g٠
- h. Installation of hinge
- i.
- Removal of lock pin Installation of lock pin j.



WARNING

Platform must be supported in upright position during removal procedure. Two persons are required, due to the weight of the platform.

- 1. Block platform to support it when attaching hardware is removed.
- 2. With platform in upright position and supported by one of the persons, remove three nuts (1), six washers (2) and three screws (4) securing three hinges (3) to van body.

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5. Remove lock pins securing upper end of platform to van body and lower platform to ground.

INSTALLATION

1. Block platform so that holes in hinges are alined with holes in van body.

2.	Secure hinges (3) to body with three screws (4), six washers (2) and three nuts (1). 1. Nut 2. Washer 3. Hinge 4. Screw	
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REMOVAL OF RUBBER BUMPER

Remove four nuts (3), washers

 and screws (1) securing
 bumper (4) to edge of plat form.

INSTALLATION OF RUBBER BUMPER

- Position rubber bumper (4) on edge of platform (5).
- Secure bumper (4) with four screws (1), washers (2) and nuts (3).



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4-92

1. Two persons are required to perform this operation.

1.

2.

Chain eye

Snap hook

- 2. Raise platform to upright position.
- 3. Release snap hook (2) from chain eye (1).

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4-37. SIDE PLATFORM (cont)

REMOVAL OF CHAIN

- 1. Remove platform as described above.
- 2. Using bolt cutters, remove link connector (1) at each end of chain (2).
- 3. Remove chain (2).

INSTALLATION OF CHAIN

- 1. Aline two ends of link connector (1) at each end of chain (2).
- 2. Peen ends together.

REMOVAL OF MOUNTING BRACKET

- 1. Remove platform as described above.
- 2. Remove two nuts (1), washers (2) and screws (5) securing mounting bracket (4) to platform (3).
- 3. Remove mounting bracket.

INSTALLATION OF MOUNTING BRACKET

- Position mounting bracket

 (4) on platform (3).
- 2. Secure bracket (4) with screws (5), washers (2) and nuts (1).
- 3. Install platform.

STOWING SIDE PLATFORM

- 1. Two persons are required for this procedure.
- 2. Remove platform as described above.
- 3. Place platform in stowage box underneath van body.

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Nut
 Washer
 Platform
 Bracket
 Screw

1.

2.

Link connector

Chain

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. . . .

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Difficulty in locking

or unlocking door

operate properly

3

Door hinges do not

Troubleshooting Reference

Item No.

20

21

Section X. BODY AND PARTS MAINTENANCE PROCEDURES

4-38. DOORS

THIS TASK COVERS

- a. Removal of door
- b. Cleaning
- c. Inspection and repair
- d. Installation of door
- e. Removal of lock assembly
- f. Inspection and repair of lock assembly
- g. Installation of lock assembly
- h. Removal of rubber seal
- i. Installation of rubber seal
- j. Removal of radio frequency interference shielding
- k. Installation of radio frequency interference shielding

REMOVAL OF DOOR

- 1. Set hoist or jack lift in position at door.
- Remove hinge bolt nuts (3) and washers (2) securing hinge bolts (1).
- 3. Remove hinge bolts and remove door.
 - 1. Bolt
 - 2. Washer
 - 3. Nut

CLEANING

WARNING

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (58.8°C).

- 1. Use cleaning solvent (item 3, appendix E) to remove grease and oil.
- 2. Use steam or water and a stiff brush to remove dirt.

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4-38. DOORS (cont)

INSPECTION AND REPAIR

- 1. Inspect for dents and cracks.
- 2. Visually check all hardware for defects.
- 3. Straighten bent parts if feasible.
- 4. Weld cracked or fractured items.

INSTALLATION OF DOOR

1. Position door in door opening.

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- 2. Insert hinge bolt (1) and secure with nut (3) and washer (2).
- 3. Grease hinge bolt in accordance with instructions in lubrication chart.



4-3	8. DOORS (cont)	
REM	OVAL OF DOOR LOCK ASSEMBLY (cont)	
3.	Remove rivets (2) securing exterior handle (1) and escutcheon plate (4).	2
4.	Remove exterior handle (1), escutcheon plate (4), o-ring (3) and washer (5).	5
	1. Handle 4. Escutcheon plate 2. Rivet 5. Washer 3. O-ring	3
5.	Remove cotter pin (5) securing locking rod (4).	r1
6.	Remove four screws (1) and washers (2) securing slide bolt (3) and spacer (6).	5 4
7.	Remove slide bolt (3), spacer (6) and locking rod (4) as a unit.	6 21
	1.Screw4.Locking rod2.Washer5.Cotter pin3.Slide bolt6.Spacer	3
8.	Remove cotter pins (1) securing locking rods (2 and 3).	η.
9.	Remove four screws (4) and washers (5) securing roller latch assembly (6), shim (7) and spacer (8).	8
10.	Remove roller latch assembly, shims and spacer.	6
	 Cotter pin Locking rod Locking rod Screw 	7
	5. Washer 6. Roller latch assembly 7. Shim 8. Spacer	1

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4-38. DOORS (cont)

REMOVAL OF DOOR LOCK ASSEMBLY (cont)

- Remove cotter pins (1) securing locking rods (2).
 Remove four concurs (2) and
- 12. Remove four screws (3) and washers (4) securing lock assembly (5), shim (6) and spacer (7).
- 13. Remove lock assembly, shim and spacer.
 - Cotter pin
 Locking rod
 Screw
 Washer
 Lock assembly
 - 6. Shim
 - 7. Spacer



INSPECTION AND REPAIR OF LOCK ASSEMBLY

- 1. Inspect parts for cracks, bends, excessive wear, and deterioration. Replace defective parts.
- 2. If necessary, remove screw and washer securing locking rod to slide bolt.
- 3. Straighten locking rod to assure proper alinement in upper and lower slide bolts.
- 4. Straighten bends or dents in slide bolts that may cause binding.
- 5. Check lock for ease of operation. Lubricate as required.
- 6. Depress button (3) of interior handle (1) and raise lock pin (2) to check for ease of operation.
- 7. Clean and paint if necessary.
- 8. Replace defective or damaged parts.
 - 1. Handle
 - 2. Lock pin
 - 3. Button





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4-38. DOORS (cont)

INSTALLATION OF DOOR LOCK ASSEMBLY (cont)

- Position slide bolt (3), spacer (6) and locking rod (4) as a unit.
- 8. Secure with screws (1) and washers (2).
- Secure unattached end of locking rod with cotter pin (5).
 - Screw
 Washer
 Slide bolt
 Locking rod
 Cotter pin
 Spacer



- 10. Assemble o-ring (3), escutcheon plate (4) and washer (5) on exterior handle (1).
- 11. Position assembled handle and secure with rivets (2).
 - 1. Exterior handle
 - 2. Rivet
 - 3. o-ring
 - 4. Escutcheon plate
 - 5. Washer

Position interior handle (2).
 Secure with two pins (1).

Interior handle
 Pin



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4-38. DOORS (cont)



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4-40.	REFLECTOR	
REMOVA	AL	
1. Re	emove two screws (1) securing eflector (2) to van body.	1
2. Re	emove reflector.	2
INSTAI	LLATION	
1. An E) ir	oply sealant (item 19, appendix) in and around mounting holes n van body.	
2. Po ar	osition reflector (2) on body nd aline mounting holes.	<pre>1. Screw 2. Reflector</pre>
3. Se	ecure with two screws (1).	
4-41.	STOWAGE BOX	
REMOVA	AL	
1. St fc sh	towage box (1) will be removed or replacement or aircraft	
2. Po st	osition fork lift under towage box (1).	
3. Re ar	emove four lock pins (2) nd remove stowage box.	
INSTAI	LLATION	
1. Us st	sing a fork lift, position towage box (l).	1. Stowage box
2. Se	ecure with four lock pins (2).	2. Lock pin
3. Re	emove fork lift.	
4-42.	MAINTENANCE UNDER UNUSUAL COND	ITIONS
THIS 7	TASK COVERS	
a b	. Extreme cold weather maintenant. Extreme hot weather maintenance. Maintenance after fording	nce ce

d. Maintenance after operation on unusual terrain

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4-42. MAINTENANCE UNDER UNUSUAL CONDITIONS (cont)

EXTREME COLD WEATHER MAINTENANCE

For maintenance procedures and practices during extreme cold weather, refer to FM 9-207.

EXTREME HOT WEATHER MAINTENANCE

- 1. In hot, dry climates, corrosive action will occur on all parts of the materiel and will be accelerated during rainy seasons.
- 2. Evidence of corrosion will appear in the form of rust, paint blisters, mildew, mold, and fungus growth.
- 3. Remove corrosion from exterior metal surfaces with abrasive paper or cloth. Apply a protective coating of paint, or touch up the existing paint.
- 4. Keep a film of engine lubricating oil (OE-20) on unfinished exposed metal surfaces.

MAINTENANCE AFTER FORDING

Refer to TM 9-238 for maintenance procedures after fording.

MAINTENANCE AFTER OPERATION ON UNUSUAL TERRAIN

- 1. Thorough cleaning and lubrication of all parts affected must be accomplished as soon as possible after operation in mud.
- 2. Clean all suspension components. Repack wheel bearings as necessary.
- 3. After operation in sand or dust, touch up all painted surfaces damaged by sandblasting.
- 4. Lubricate completely to force out lubricants contaminated by sand or dust.


CHAPTER 5

DIRECT SUPPORT AND GENERAL SUPPORT

MAINTENANCE INSTRUCTIONS

CHAPTER INDEX	Page
Troubleshooting Wiring harness connector and receptacle Wiring harness Axle assembly Repair standards Suspension system Brake drum	5-1 5-4 5-7 5-10 5-15 5-19
Section I. REPAIR PARTS, SPECIAL TOOLS, TMDE, AND	
SUPPORT EQUIPMENT	
5-1. COMMON TOOLS AND EQUIPMENT For authorized common tools and equipment, refer to the Mod Table of Organization and Equipment (MTOE) applicable to yo	ified ur unit.
5-2. SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT	
Special tools are not required for this equipment.	
5-3. REPAIR PARTS	
Repair parts are listed and illustrated in appendix F of th manual.	is

Section II. TROUBLESHOOTING PROCEDURES

5-4. INTRODUCTION

Refer to table 5-1 for troubleshooting procedures.

Table 5-1. Troubleshooting

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM

WARNING

Make sure all electrical power is disconnected before performing any maintenance on the electrical system. Serious injury or death may result if proper precautions are not taken.

- 1. ALL LIGHTS FAIL TO OPERATE.
 - Step 1. Inspect intervehicular cable for proper connection. In all steps, check for good ground connection.

Connect cable properly. Tighten ground.

Step 2. Inspect for dirty or corroded terminals in intervehicular cable.

Clean terminals in plug and receptacle.

Step 3. Check to see that light switch in towing vehicle is in desired position.

Place towing vehicle light switch in proper mode of operation.

Step 4. Check to see that current is flowing from towing vehicle. Check towing vehicle cables and circuit breakers.

Step 5. Check wiring harness for short circuit.

Check cable for bare spots. Repair if necessary. Make a continuity check of all circuits, using a multimeter. Replace defective single wire or replace wiring harness as required.

Step 6. Check light switch on towing vehicle.

Replace light switch on towing vehicle if it is defective.

Step 7. Check resistor contact points.

Clean contact points.

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Table 5-1. Troubleshooting (cont)

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

ELECTRICAL SYSTEM (cont)

Step 8. Use ohm meter and check resistors (refer to wiring diagram). Replace cracked, chipped or defective resistor (para 4-11).

SUSPENSION SYSTEM

SEMITRAILER LEANS TO ONE SIDE. Check for broken spring leaves. Replace spring (para 5-8).

3. EXCESSIVELY WORN, SCUFFED OR CUPPED TIRES.

- Step 1. Check rubber trunnion bushing for wear and deterioration. Replace defective bushing (para 5-8).
- Step 2. Check rubber pads for wear and deterioration. Replace defective pads (para 5-8).
- 4. WHEEL HOP OR DIMINISHED HANDLING STABILITY.
 - Step 1. Check rubber trunnion bushing for wear and deterioration. Replace defective bushing (para 5-8).
 - Step 2. Check rubber pads for wear and deterioration. Replace defective pads (para 5-8).

5-3

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Section III. WIRING HARNESS MAINTENANCE PROCEDURES



5-6. WIRING HARNESS

THIS TASK COVERS

a. Removal

5-4

- b. Installation
- c. Replacement of single wire

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5-6. WIRING HARNESS (cont)

INSTALLATION

- 1. Position harness, threading through cutouts where required and secure with grommets, screws, clamps and wire retainers.
- 2. Connect harness to receptacle and all cable connectors.
- 3. Secure ground wire lug on the resistor box receptacle with nut on resistor mounting stud.



4. Position receptacle and cover and secure with four screws, washers and nuts.

REPLACEMENT OF SINGLE WIRES

- 1. Remove and discard electrical insulating tape binding wires of defective branch.
- 2. Cut defective wire from branch, leaving enough wire for splicing.
- 3. Cut new piece of wire to same length (plus splice) as defective wire and splice to harness. Tape splice with insulating tape.
- 4. Assemble new terminals, washers, sleeves and electrical shells to ends of new wire as required. Install marker band.

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Section IV. AXLE ASSEMBLY MAINTENANCE PROCEDURES

5-7. AXLE ASSEMBLY

- a. General
- b. Removal
- c. Cleaning
- d. Inspection and repair
- e. Repair standards
- f. Assembly of new axle
- g. Alinement procedure
- h. Installation

Test Equipment Required: None

Personnel Required: 2

GENERAL

Generally, axle assemblies will not be removed unless inspection shows a need for repair or replacement.

For inspection purposes, remove wheels (para 3-7) and hubs and brake drums (para 4-30).

REMOVAL

WARNING

Weight of semitrailer must be supported by leveling jacks or by blocking or support stands placed under rear corners of frame throughout operation.

- 1. Position semitrailer on level surface with front end resting on landing gear legs.
- 2. Extend leveling jacks enough to relieve each tire of ground contact and provide support during removal and installation operations.

WARNING

Wear goggles when opening air reservoir drain cock. Failure to do so could cause serious eye injury from high pressure air.



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REMOVAL (cont)

- 3. Open air reservoir drain cock to relieve air pressure.
- 4. Remove wheels (para 3-7).
- 5. Remove hubs and brake drums (para 4-30).
- Disconnect hydraulic brake hose
 (1) at tee (2) on rear center
 of axle (3).
- 7. Support axle with jack.
 - 1. Hydraulic hose
 - 2. Tee
 - 3. Axle





- 8. Remove two nuts (1) and washers (2) from each spring U-bolt (3) and remove U-bolts.
- 9. Lower axle assembly and remove from under semitrailer.
- 10. Spring seats are welded to axle. If necessary to remove spring seat, break weld and remove seat.

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5-7. AXLE ASSEMBLY (cont)

CLEANING

1. Clean mud and dirt from all exposed surfaces with water and a stiff brush.

WARNING

Cleaning solvent, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (58.8°C).

2. Remove grease from spindle of axle and wheel retaining parts with cleaning solvent (item 3, appendix E).

INSPECTION AND REPAIR

- 1. Check threads of axle spindle for wear, crossed threads, or other damage.
- 2. Using fine file, remove burrs, or hand chase threads if necessary.
- 3. Check axle spindle for bend. Indications of a bent axle spindle are binding bearings which cannot be adjusted properly, and extremely uneven wear of brake linings. Replace defective axle spindle.
- 4. Check for damaged paint and repaint where necessary.
- 5. Check that axle meets requirements of repair standards listed in Repair Standards, table 5-2.
- 6. The repair and rebuild standards included herein give the minimum, maximum, and key clearance of new or rebuilt parts. They also give wear limits which indicate that point to which a part or parts may be worn before replacement, in order to give maximum service with minimum replacement.
- 7. Normally, all parts which have not been worn beyond the dimensions shown under wear limits in table 5-2, or damaged from corrosion, will be approved for service. Points of measurement for repair standards are shown in the accompanying illustration, page 5-11.

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	Table	5-2. Repair S	tandards			
			Size of ne	and fit w parts		•
	Item and point of measurement	lllustration letter ref.	Min.	Max.	Wear limits	Í
a.	Axle					A
	Diameter of inner bearing surface	A	3.4988	3.4998	3.4983	
	Diameter of outer bearing surface	В	2.6238	2.6248	2.6233	
Ъ.	Brake drum					
	Inside diameter	C	16.495	16.505	16.625	
c.	Drum adapter					
	Inside diameter of hub location hole	D	7.250	7.254	*	
	Concentricity of in- side diameter with outside diameter	E	Total reading	Indicator 0.004	*	
d.	Wheel hub					
	Inside diameter of inner bearing sur- face	F	5.996	5.998	*	
	Outside diameter of inner bearing sur- face	G	6.0000	6.0010	*	
	Inside inner bearing fit		0.0015T	0.0045T	*	
	Inside diameter of inner bearing	L	3.5000	3.5010	3.5015	
	Inside diameter of outer bearing sur- face	K	4.434	4.436	*	
	Outer diameter of outer bearing	J	4.4375	4.4385	*	
	Inside outer b earing fit		0.0015T	0.0045T	*	
	Inside diameter of outer bearing	н	2.6250	2.6260	2.6265	

Table 5-2. Repair Standards

*Indicates that part should be replaced when worn beyond the limits given in "size and fit of new parts" column.

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5-7. AXLE ASSEMBLY (cont)

ASSEMBLY OF NEW AXLE

- 1. If the spring seat has been removed, position seat in exact location it occupied before removal.
- 2. Be certain spring seats fit axle properly. If necessary, grind seats to insure that both seats fit properly and are horizontal and parallel.
- Make sure that spring seats are level, parallel, an equal distance from center of axle and the same distance from the brake flanges.
- Tack weld seats in place and recheck.

AXLE

SPRING SEAT

SPRING SEAT





5. After installation of new spring (para 5-8), axle should be alined in relation to semitrailer kingpin.

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5-12



- 6. Measure distance from kingpin to centerline of the spindles on front axle, as shown on page 5-12.
- After alining front axle, tighten U-bolt nuts (1) and end cap nuts (2) on that axle only.
 - U-bolt nuts
 End cap nuts



- 8. Aline rear axle with front axle by measuring between spindles.
- 9. Tighten rear axle U-bolt nuts and end cap nuts.
- 10. Recheck alinement of front axle with kingpin. Recheck alinement of rear axle with front axle.
- 11. Tighten U-bolt nuts to a torque of 300 lb-ft (406.8 Nm) dry or 220 lb-ft (298.3 Nm) lube.

CAUTION

Adjustment plates must be welded before trailer is operated.

12. Weld the unwelded adjustment plate after completion of above.



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5-7. AXLE ASSEMBLY (cont)

INSTALLATION

3.

- 1. Position axle on dolly.
- 2. Place support under axle.

U-bolt

- Insert two U-bolts (3) and secure with nuts (1) and washers (2).
 1. Nut
 2. Washer
- 4. Install hub and brake drum (para 4-30).
- 5. Connect hydraulic hose (1) and hydraulic lines (4) to tee (2) at center of axle (3).

 Hydraulic hose
 Tee
 Axle
 Hydraulic line
- 6. Install wheels (para 3-7).
- 7. Close air reservoir drain cock (para 2-19).
- 8. Remove blocking and support equipment.

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Section V. SUSPENSION SYSTEM MAINTENANCE PROCEDURES

5-8. SUSPENSION

THIS TASK COVERS

- a. Removal of spring
- b. Inspection of spring
- c. Installation of spring
- d. Removal of rubber bushing
- e. Installation of rubber bushing
- f. Removal of rubber pad
- g. Installation of rubber pad

Troubleshooting Reference Item No.

- 2. Semitrailer leans to one side
- 3. Excessively worn, scuffed or capped tires
- 4. Wheel hop or diminished handling stability

9

REMOVAL OF SPRING

- 1. Position semitrailer on level surface with front end resting on landing gear legs.
- 2. Extend leveling jacks enough to relieve each tire of ground contact and provide support during removal and installation procedures.
- 3. Place jack under chassis and raise van body just enough to take weight off spring.
- 4. Support semitrailer with support stands or blocking equipment.

10

11

12

- Remove two nuts (1) and washers
 (2) from each axle U-bolt (3).
 Remove axle U-bolts.
- Remove eight nuts (12), washers (11) and screws (10) and remove two end caps (9).
- 7. Remove two nuts (4) and washers
 (5) from each trunnion U-bolt
 (6). Remove trunnion U-bolts
 with lower hub (7).
- 8. Remove spring (8).

1.	Nut	5.	Washer	9.	End cap
2.	Washer	6.	Trunnion U-bolt	10.	Screw
3.	Axle U-bolt	7.	Lower hub	11.	Washer
4.	Nut	8.	Spring	12.	Nut

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5-8. SUSPENSION SYSTEM (cont)

INSPECTION OF SPRING

- 1. Inspect spring for cracks, breaks and excessive wear.
- 2. Replace spring if defective or excessive wear is apparent.

INSTALLATION OF SPRING

1. Position spring on axles. 2. Install axle U-bolts (1) and secure with nuts (2) and washers (3). Tighten nuts to a torque of 300 1b-ft (406.8 Nm) dry or 220 lb-ft (298.3 Nm) lube. 3. Install trunnion U-bolts (4), insert lower hub(7) in position and secure with nuts (6) and washers (5). Tighten nuts to a torque of 880 lb-ft (1193.3 Nm) dry or 660 lb-ft (895 Nm) lube. 4. Position end caps (8) and secure with eight screws (9), washers $(\bar{1}0)$ and nuts Axle U-bolt 1. 6. Nut 2. 7. Lower hub (11). Tighten nuts to a Nut torque of 180 1b-ft (244 Nm) 3. Washer 8. End cap 9. dry or 130 lb-ft (176.3 Nm) 4. Trunnion Screw lube. U-bolt 10. Washer 5. Washer 11. Nut 5. Remove blocking and support equipment.

REMOVAL OF RUBBER BUSHING

- 1. Position semitrailer on level surface with front end resting on landing gear legs.
- 2. Extend leveling jacks enough to relieve each tire of ground contact and provide support during removal and installation procedures.
- 3. Place jack under axle and raise van body just enough to take weight off spring.
- 4. Block or support semitrailer.

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- 8. Trunnion tube (9) will drop down when U-bolts (5) and lower hub (8) are removed.
 - 5. U-bolt
 - 8. Lower hub
 - 9. Trunnion tube



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5-8. SUSPENSION SYSTEM (cont)

REMOVAL OF RUBBER BUSHING (cont)

- 9. Check bushing for wear and deterioration. Replace defective bushing.
- 10. Mark position of bushing on trunnion tube by placing scribe marks on trunnion tube to mark inner edge of rubber bushing.

INSTALLATION OF RUBBER BUSHING

- 1. Lubricate trunnion tube (9) with rubber lubricant to ease installation of rubber bushing (10).
- Slide washer (11) and new rubber bushing (10) on trunnion tube (9). Make certain inner edge of bushing is located on the scribe marks.
- 3. Position trunnion tube (9) on suspension. Install lower trunnion hub (8) and trunnion U-bolts (5).
- 4. Secure U-bolts with nuts (7) and washers (6). Tighten nuts to a torque of 880 lb-ft (1193.3 Nm) dry or 660 lb-ft (895 Nm) lube.
- 5. Secure trunnion hangers (2) to mounting bracket with nuts (4), washers (3) and screws (1).
- 6. Remove support and block ing equipment.
 - 1. Screw
 - 2. Trunnion hanger
 - 3. Washer
 - 4. Nut
 - 5. Trunnion U-bolt



Trunnion tube

Washer

Rubber bushing

- 6. Washer
- 7. Nut

9.

10.

11.

- 8. Lower hub
- 9. Trunnion tube



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APPENDIX A

REFERENCES

A-1. Publication Indexes

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

Index of Army Motion Pictures and Related Audio-Visual Aids	DA	Pam	108-1
Consolidated Index of Army Publications and Forms	DA	Pam	310-1

A-2. Forms

Refer to TM 38-750, The Army Maintenance Management System (TAMMS) for instructions on the use of maintenance forms pertaining to the materiel.

A-3. Field Manuals, Supply Bulletins, Technical Bulletins, and Technical Manuals TB 43-0209 Color and Marking of Military Vehicles Wheeled Vehicles: Inspection, Care, and SB 740-98-1 Preservation During Storage Camouflage Materials and Field TM 5-200 Manufacturing Techniques Operation and Maintenance of Ordnance Materiel in Cold Weather FM 9-207 TM 43-0139 Painting Instructions for Field Use Inspection, Care and Maintenance of TM 9-214 Antifriction Bearings Organizational Care, Maintenance, and Repair of Pneumatic Tires and Inner Tubes TM 9-2610-200-20 Administrative Storage of Equipment TM 740-90-1 Procedures for Destruction of Equipment to Prevent Enemy Use TM 750-244-6

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Deep Water Fording of Ordnance Materiel	TM 9-238
The Army Maintenance Management System	TM 38-750
Army Motor Transport Units and Operations	FM 55-30
Manual for the Wheeled Vehicle Driver	FM 21-305

A-2



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APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. General

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

<u>b</u>. The Maintenance Allocation Chart (MAC) in section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.

<u>c</u>. Section III lists the special tools and test equipment required for each maintenance function as referenced from section II.

d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

B-2. Maintenance Functions. Maintenance functions will be limited to and defined as follows:

<u>a</u>. <u>Inspect</u>. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. <u>Test.</u> To verify serviceability by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

<u>c</u>. <u>Service</u>. Operations required periodically to keep an item in proper operating condition, i.e. to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids or gases.

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

e. <u>Aline</u>. To adjust specified variable elements of an item to bring about optimum or desired performance.

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<u>f.</u> <u>Calibrate.</u> To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. <u>Install</u>. The act of emplacing, seating, or fixing into position an item, part or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

<u>h.</u> <u>Replace.</u> The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart. Replace is authorized by the MAC and is shown as the third position code of the SMR code.

<u>i</u>. <u>Repair</u>. The application of maintenance services or other maintenance actions to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item or system.

j. <u>Overhaul.</u> That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards in appropriate technical publications (i.e. DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

<u>k</u>. <u>Rebuild</u>. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) considered in classifying Army equipments/components.

B-3. Explanation of Columns in the MAC, Section II

a. <u>Column 1, Group Number</u>. Column 1 lists functional group code numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

<u>b.</u> <u>Column 2, Component/Assembly</u>. Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

<u>c.</u> <u>Column 3, Maintenance Function</u>. Column 3 lists the functions to be performed on the items listed in column 2. (For detailed explanation of these functions, see paragraph B-2).

d. <u>Column 4, Maintenance Category</u>. Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn(s), the category of maintenance authorized to perform the function listed in Column 3. This figure represents the active time re-

B-2



quired to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate work time figures will be shown for each category. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/ quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance categories are as follows:

C Operator or crew
O Organizational maintenance
F Direct support maintenance
H General support maintenance
D Depot maintenance

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

<u>f.</u> <u>Column 6, Remarks.</u> This column shall, when applicable, contain a letter code, in alphabetical order, which shall be keyed to the remarks contained in section IV.

B-4. Explanation of Columns In Tool and Test Equipment Requirements, Section III.

<u>a.</u> <u>Column 1, Reference Code.</u> The tool and test equipment reference code correlates with a code used in the MAC, Section II, Column 5.

<u>b.</u> <u>Column 2, Maintenance Category.</u> The lowest category of maintenance authorized to use the tools or test equipment.

<u>c.</u> <u>Column 3, Nomenclature.</u> Name or identification of tool or test equipment.

d. <u>Column 4, National Stock Number</u>. The national stock number of the tool or test equipment.

e. Column 5, Tool Number. The manufacturer's part number.

B-5. Explanation of Columns in Remarks, Section IV.

<u>a.</u> <u>Column 1, Reference Code.</u> The code recorded in Column 6, Section II.

<u>b.</u> <u>Column 2, Remarks.</u> This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

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MAINTENANCE ALLOCATION CHART FOR

SEMITRAILER, VAN: ELECTRONIC, XM1006

(1)	(2)	(3)			(4)			(5)	(6)
GROUP		MAINTENANCE	MAI	NTENA	ANCE	CATE	GORY	TOOLS &	REMARKS
NUMBER	COMPONENT/ASSEMBLY	FUNCTION	С	0	F	н	D	EQUIPT	
06	ELECTRICAL SYSTEM								
0608	COVER ASSEMBLY	Replace		0.2					
	CIRCUIT BREAKER	Inspect Replace		0.1					
	RESISTOR	Inspect Replace		0.1					
0609	LAMP	Replace		0.2					
	LIGHT	Replace		0.2					
0613	WIRING HARNESS, MAIN	Inspect Test Replace Repair		0.1 0.3	2.0 3.0				
	WIRING HARNESS	Inspect Test Replace Repair		0.1 0.3	1.5 3.0				
	WIRING HARNESS, DOLLY TAILLIGHTS	Inspect Test Replace Repair		0.1 0.3	2.0 3.5				
11	AXLE								
1100	AXLE ASSEMBLY	Inspect Replace		0.5	8.0				
1100	AXLE ASSEMBLY	Inspect Replace		0.5	8.0				

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MAINTENANCE ALLOCATION CHART FOR

SEMITRAILER, VAN: ELECTRONIC, XM1006

(1)	(2)	(3)			(4)			(5)	(6)
GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAIN		NCE	CATE H	GORY	TOOLS & EQUIPT	REMARKS
				<u> </u>					
12	BRAKES								
1202	SHOE ASSEMBLY	Inspect Adjust Replace		0.5 0.5 1.0					
1204	CYLINDER, MASTER	Service Replace		0.2					
	CYLINDER, WHEEL	Replace		1.5					
	TUBE ASSEMBLY, CYLINDER	Test Replace		0.1 0.2					
1208	CHAMBER, AIR	Test Replace		0.5 0.3					
	VALVE, RELAY	Test Replace		0.5 0.2					
	TUBE, AIR	Test Replace		0.2 2.0					
	RESERVOIR, AIR	Replace		0.2					1
	COCK, DRAIN	Test Replace		0.1 0.1					
-	GLADHAND	Replace		0.1					r.
13	WHEELS								
1311	BEARING, HUB	Adjust Replace		0.2 0.2					

MAINTENANCE ALLOCATION CHART FOR

SEMITRAILER, VAN: ELECTRONIC, XM1006

(1)	(2)	(3)			(4)			(5)	(6)
GROUP		MAINTENANCE	MAI	NTEN	ANCE	CATE	GORY	TOOLS &	REMARKS
NUMBER	COMPONENT/ASSEMBLY	FUNCTION	С	0	F	н	D	EQUIPT	
				1					
		D 1							
	SEAL, UIL	Replace		0.3					
	BRAKE DRUM	Inspect		0.5					
		Replace		0.3					
	WHEEL	Replace	0.5						
1313	TIRE	Inspect		0.2					
		Replace		1.0	1.0				
		Kepair			1.0				
	TUBE	Inspect		0.5					
		Replace Repair		$\begin{bmatrix} 0.7 \\ 1 \end{bmatrix}$					
		Repuir							
15	FRAME & TOWING ATTACHMENTS								
1504	CARRIER, SPARE	Replace		0.3					
	TIRE/WHEEL	Repair		0.5					
1507	LANDING GEAR	Replace		0.5					
	LEVELING JACK	Replace		0.3					
16	SPRINGS & SHOCK ABSORBERS								
1601	BUSHING, RUBBER	Inspect			0.2				
		кертасе			2.0				
	HUB, TRUNNION	Inspect			0.2				
		кертасе			1.0				
	PAD, RUBBER	Inspect			0.2				
		Replace			0.5				
	,								

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MAINTENANCE ALLOCATION CHART FOR

SEMITRAILER, VAN: ELECTRONIC, XM1006

(1)	(2)	(3)			(4)			(5)	(6)
GROUP		MAINTENANCE	MAI	NTENA	ANCE	CATE	GORY	TOOLS &	REMARKS
NUMBER	COMPONENT./ASSEMBLY	FUNCTION	С	0	F	н	D	EQUIPT	
	SEAT, SPRING	Inspect			0.2				
		Replace			3.0				
	SPRING	Inspect			0.2				
		Replace			3.0				
18	BODY								
1810	HINGE, DOOR	Inspect		0.1					
		Replace		0.2					
	LOCK ASSEMBLY	Inspect		0.2					
		Replace		0.2					
	SEAL, DOOR	Inspect		0.2					
		Replace		2.0					
22	BODY, CHASSIS ACCESSORY ITEMS								
2202	REFLECTOR	Inspect		0.1					
		Replace		0.2					
	CONTAINER, MANUAL	Inspect		0.1					
		Replace		0.2					
	BOX, STOWAGE	Replace		0.5					
2210	DATA PLATE	Inspect		0.1					
		Replace		0.2					
1		1	1						

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Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

SEMITRAILER, VAN: ELECTRONIC, XM1006

Tool or Test Equipment Reference Code	Maintenance Category	Nomenclature	National/NATO Stock Number	Tool No.
		None		

Section IV. REMARKS

SEMITRAILER, VAN: ELECTRONIC, XM1006

Reference Code	Remarks/Notes
	None



APPENDIX C

COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS

Section I. INTRODUCTION

C-1. SCOPE

This appendix lists components of end item and basic issue items for semitrailer, van: electronic, XM1006 to help you inventory items required for safe and efficient operation.

C-2. GENERAL

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

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

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

C-3. EXPLANATION OF COLUMNS

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

<u>a.</u> <u>Column (J) - Illustration Number (Illus Number).</u> This column indicates the number of the illustration in which the item is shown.

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

<u>c.</u> <u>Column (3) - Description</u>. Indicates the Federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the FSCM (in parentheses) followed by the part number. If item needed differs for different models, the model is shown under the "Usable On" in this column. Usable On codes are not included in this manual, since only the XM1006 semitrailer is covered.

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

e. <u>Column (5) - Quantity Required (Qty reqr)</u>. Indicates the quantity of the item authorized to be used with/on the equipment.

Section II. COMPONENTS OF END ITEM

NONE

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	Section	III.	BASIC	ISSUE	ITEMS
--	---------	------	-------	-------	-------

			••••••••••••••••••••••••••••••••••••••		
	(1)	(2)	(3)	(4)	(5)
	Illus number	National stock number	Description FSCM and Part Number	U/M	Qty rqr
ſ	1	5340-00-682-1505	PADLOCK SET (5 locks, keys; one on each door, 3 on stowage box (96906)MS21313-52	EA	1
	2	2540-01-049-6350	LADDER: vehicle boarding (in brackets on rear platform) (19207)11681466	EA	2
	3	2540-01-049-5162	HANDRAIL (one on inside of rear door, one in stowage box) (19207)11646386	EA	2
	4	2540-01-092-4056	LADDER: folding (in brackets on rear of stowage box) (19207)11684409	EA	1
	5	2540-01-052-6234	CHOCK, WHEEL (two in brackets on sides of dolly between axles, two on rear, underneath body (96906)MS52127-2	EA	4
				Ì	7
			TA	245523	
			C-3 (C-4	blan	c)

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APPENDIX D

ADDITIONAL AUTHORIZATION LIST

No additional items are authorized for the support of this equipment.



D-1 (D-2 blank)

APPENDIX E

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

E-1. SCOPE

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

E-2. EXPLANATION OF COLUMNS

<u>a.</u> <u>Column 1 - Item number</u>. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaning solvent, item 3, appendix E").

<u>b.</u> <u>Column 2 - Level</u>. This column identifies the lowest level of maintenance that requires the listed item.

- C Operator/Crew
- 0 Organizational Maintenance
- F Direct Support Maintenance
- H General Support Maintenance

c. <u>Column 3 - National Stock Number</u>. This is the national stock number assigned to the item; use it to request or requisition the item.

<u>d.</u> <u>Column 4 - Description</u>. 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 Manufacturers (FSCM) in parentheses, followed by the part number.

e. <u>Column 5 - Unit of Measure (U/M)</u>. 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.

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Section II. EXPENDABLE SUPPLIES AND MATERIALS LIST

(1)	(2)	(3)	(4)	(5)	
ITEM NO.	LEVEL	NATIONAL STOCK NO.	DESCRIPTION	U/M	
			Cement, Bonding, MMM-A-1617, Type 2		
1 2	0 0	8040-00-290-4301 8040-00-062-6953	1 Qt Can 5 Oz Tube	EA EA	
			Cleaning Solvent, PD-680 (SD-II)		
3	С,О	6850-00-664-5685	l Gal Can	EA	Į
			Grease, Automotive and Art- illery (GAA), MIL-G-10924		
4	C,0	9150-00-190-0904	l Lb Can	EA	
5	C,0	9150-00-190-0905	5 Lb Can	EA	[
0	0,0	9130-00-190-0907	35 LD Can	LA	
7	0	8010-00-111-8336	Enamel, Black, MIL-E-52798	EA	
			Hydraulic Fluid, Silicone, Automotive MIL-B-46176		
8	0	9150-01-059-2586	5 Gal Can	EA	
			Lubricating Oil, Spec MIL-C- 2104C, OE/HDO-30		
9	0	9150-00-186-6681	1 Qt Can	EA	
10	0	9150-00-188-9859	5 Gal Can	EA	1
12	0	9150-00-188-9859 9150-00-189-6759	55 Gal Drum (16 Ga)	ea Ea	
	J.		Lubricating Oil, Sub-zero, Spec MIL-L-2104C (Temp above -20°F), OE/HDO-10		
13 14	0	9150-00-189-6727	1 Qt Can, Type 1 55 Cal Drum	EA EA	
14	U	JIJU-UU-IJI-2//2	Lubricating Oil, General Purpose (PL-Special), MIL-L-644A		
15	0	9150-00-185-0629	2 Oz (Oblong screw top can)	EA	
					1

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EXPENDABLE SUPPLIES AND MATERIALS LIST (cont) Section II.

(1)	(2)	(3)	(4)	(5)			
ITEM NO.	LEVEL	NATIONAL STOCK NO.	DESCRIPTION	U/M			
			Lubricating Oil, General Purpose (PL-Special), MIL-L-644A				
16	0	9150-00-257-5436	4 Oz (Oblong can with	EA			
17	0	9150-00-231-6689	1 Qt	EA			
			Preservative, Lubricating, Light Oil				
18	С,О	9150-00-231-9064	1 Qt Can	EA			
			Waterproofing Sealant, MIL-C-21067				
19	С,О	8030-00-515-2488	l Cartridge	EA			
			Detergent, GP, Liquid, WS, A, MIL-D-16791				
20	0	7930-00-282-9699	l Gal Can	EA			
7							


APPENDIX F

REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

1. Scope

This manual lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of organizational, direct support, and general support maintenance of the Semitrailer, Van: Electronic, XM1006. 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

This Repair Parts and Special Tools List is divided into the following sections:

a. <u>Section II. Repair Parts List.</u> A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts list are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in NSN sequence.

b. <u>Section III.</u> <u>Special Tools List.</u> A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL for the performance of maintenance.

c. <u>Section IV, National Stock Number and Part Number Index.</u> A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, 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.

3. Explanation of Columns

a. <u>Illustration (Column (1))</u>. This column is divided as follows:

(1) ((a) FIG NO.) Figure Number. Indicates the figure number illustrating an exploded view of a functional group.

(2) ((b) ITEM NO.). Indicates the number used to identify items called out in the illustration.



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



*Complete Repair: Maintenance capacity, capability, and authority to perform all the corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) <u>Source Code</u>. The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Source codes are always the first two positions of the SMR code. Explanations of source codes follows:

Code

Explanation



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

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- 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.

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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) <u>Maintenance Code</u>. Maintenance codes tell you the category(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 category authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following categories of maintenance.

Code	Application/Explanation
С	- Crew or operator maintenance done within organizational or aviation unit maintenance.
0	- Organizational or aviation unit category can remove, replace, and use the item.
F	- Direct support or aviation intermediate category can remove, replace, and use the item.
Н	- General support category can remove, re- place, and use the item.
L	- Specialized repair activity can remove, replace, and use the item.
D	- Depot category can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance category 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 category 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 category that can do complete repair of the item.
- F Direct support or aviation intermediate is the lowest category that can do complete repair of the item.
- H General support is the lowest category that can do complete repair of the item.
- L Specialized repair activity is the lowest category that can do complete repair of the item.
- D Depot is the lowest category that can do complete repair of the item.
- Z Nonreparable. No repair is authorized.
- B No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

(3) <u>Recoverability Code</u>. 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:

Recoverability Code	Definition
Z	- Nonreparable item. When unserviceable, condemn and dispose of the item at the cate gory of maintenance shown in 3d position of SMR Code.
0	- Reparable item. When uneconomically re- parable, condemn and dispose of the item at organizational or aviation unit category.
F	- Reparable item. When uneconomically re- parable, condemn and dispose of the item at the direct support or aviation intermedi ate category.

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Recoverability Code

Η

L

Α

Definition

- Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support category.
- D Reparable item. When beyond lower category repair capability, return to depot. Condemnation and disposal of item not authorized below depot category.
 - Reparable item. Condemnation and disposal not authorized below specialized repair activity.
 - Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/ directives for specific instructions.

c. <u>National Stock Number (Column (3))</u>. Lists the National stock number (NSN) assigned to the item. Use the NSN for requests/ requisitions.

d. <u>FSCM (Column (4))</u>. 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.

e. <u>Part Number (Column (5))</u>. 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, but go ahead and use or furnish it as the replacement part.

f. <u>Description (Column (6))</u>. This column includes the following information:

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

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(2) The physical security classification of the item is indicated by the parenthetical entry of the applicable physical security classification abbreviation (e.g. Phy Sec CI (C) - Confidential, Phy Sec CI Secret, Phy Sec CI (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 item line entry.

(5) NSN's for bulk materials are referenced in the description column in the line item entry for the item to be manufactured/ fabricated.

(6) When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description.

(7) The USABLE ON CODE, when applicable (see paragraph 4, Special Information).

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

g. <u>U/M (Column (7))</u>. The Unit of Measure (U/M) indicates the measure (e.g., foot, gallon, pound) or count (e.g., each, dozen, gross) of a listed item. A two-character alpha code (e.g., FT, GL, LB, EA, DZ, GR) appears in this column to indicate the measure or count. If the U/M code appearing in this column differs from the Unit of Issue (U/I) code listed in the Army Master Data File (AMDF), request the lowest U/I that will satisfy your needs.

h. <u>QTY INC IN UNIT (Column (8))</u>. The Quantity Incorporated in Unit (QTY INC IN UNIT) 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 no specific quantity is applicable (e.g., shims, spacers).

4. Special Information

a. Usable on Codes are not used, since only one model is covered in this manual.

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b. Bulk materials required to manufacture items are listed in the Bulk Material Group of this manual. NSNs for bulk materials are also referenced in the description column of the line item entry for the item to be manufactured/fabricated. Detailed manufacturing instructions for items source coded to be manufactured or fabricated are found in this manual.

c. Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in this manual. Items that make up the assembly are listed immediately following the assembled item entry.

5. How to Locate Repair Parts

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

(1) <u>First.</u> Using the table of contents, determine the functional group or subfunctional group to which the item belongs. This is necessary since figures are prepared for functional groups and subfunctional groups, and listings are divided into the same groups.

(2) <u>Second</u>. Find the figure covering the functional group or subfunctional group to which the item belongs.

(3) <u>Third.</u> Identify the item on the figure and note the item number of the item.

(4) <u>Fourth.</u> Refer to the Repair Parts List for the figure to find the line item entry for the item number noted on the figure.

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

(1) <u>First.</u> Using the Index of National Stock Numbers and Part Numbers, 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 crossreference you to the illustration figure and item number of the item you are looking for.

* The NIIN consists of the last 9 digits of the NSN (i.e.

5305-<u>ρ1-674-1467</u>). NIIN

NSN

(2) <u>Second</u>. After finding 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.

6. Abbreviations

Abbreviations are not used in this manual.

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SECTION 11

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1	(1)		(2)	(20)	(4)	(6)	(6)	m	(8)
	ILLUSTR	ATION					DESCRIPTION		OTY
	8) 79 N N	(D) ITEM NO.	SMR CODE	NATIONAL Stock NUMBER	PBCM	PART Number	UBABLE ON CODE	uni	IN UNIT
							GROUP ON ELECTRICAL SYSTEM		
							GROUP 0608 RESISTOR BOX		
	L	1	PAGZZ	5310-00-209-0706	16906	#\$3933 5-3 3	wA\$HER,LOCK		12
	1	2	PAGEE	5305-00-052-6921	16706	H\$24629-57	SCREW,TAPPING,THREA	FA .	12
	1	3	3508X		19207	18315493	80% , RES (STER	EA	1
	1	4	PAOLZ	5305-00-855-8760	96906	M524629-36	SCREW, TAPPING, THREA	EA	8
	1	5	PAOLL	531 0-00- 596- 7693	96906	MS35335-31	MASHER,LOCK	EA	•
	1	•	PBOZZ	6110-01-130-3069	19207	12315494			
		,	PADZZ	5305-00-988-1727		H\$35200-283	• SGREW, MACHEME		
			PA022	5310-00-907-1888	94904	H\$35449-2252			
	-	10	PAGZZ	5935-00-773-1428	19297	7731426	.COVER.ELECTRICAL CO		1
	1	11	X8022		19207	12315497	. PLATE, GDVER	EA	1
	L	12	PADZZ	5305-00-984-6191	14704	M\$35206-243	• SCREW, MACHI NE	-	•
	1	13	PAQZZ	5310-00-559-0 070	96906	M\$35333-30	. WA SHER , LOCK	EA	•
	1	14	XBOZZ		98343	1512-0-60	.BRACKET , NOUNT ING	EA	2
	L	15	PAGZZ	5925-00-900-1903	13445	3005-15	.CIRCUIT BREAKER 12 VOLT, 20 AMP	= 4	.8
	1	16	PAGZZ	5310-00-934-9757	96906	#\$35649-282	• NUT , PLAIN , HEX AGON • • • • • • • • • • • • • • • • • • •	EA	4
	1	11	PADZZ	5310-00-045-3299	96906	MS35330-42	• WASHER , LOCK	EA	8
	L	18	PADZZ	5305-00-984-6195	96906	H\$35206-247	• SCREW, MACHE HE • • • • • • • • • • • • • • • • •	EA	•
	1	19	X8022		19207	12315505	• BRACKET , HOUNTING	Ē	2
		20	TAULL	2402-01-143-2101	19207	12313634			
		22	XADZZ		81349	RW22V5R7	. RESISTOR FIXED WIRE 5.7 OWS		3
	1	23	PADZZ	5305-00-950-0671	96904	M\$35207-274		EA	2
	1	24	PADZZ	5310-00-877-5797	96906	452104483	NVT , SE LF -L CCK NG , HE	EA	2
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Figure 2. Marker clearance light

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SECTION II

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	(1) RLLUSTR		(2)	(3)	(4)	(5)	(8)	m	(8)
	(a) FIG	(b) ITEM	SMR	NATIONAL		PART			
	NO	NO	CODE	NUMBER	FSCM	NUMBER	USABLE ON CODE	0/14	UNIT
•				4770-01-140-0740		01-0007-77	GROUP 0609 MARKER CLEARANCE LIGHT		
_			PAOZZ	6220-01-140-8247	81.834	01-4463-33	LIGHT,MARKER,CLEARA RED		
	2	2	PAOZZ	6240-00-155-7859	21450	193065	.LANP, I NCANDESCENT	A	,
		3	MOZZ	5305-00-855-0964	76906	H524629-48	SC RE W, T APPI NG, THRE A		52
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SECTION 11

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[(1)		(2)	(3)	(4)	(6)	(4)	[10]	(8)
	ILLUSTR	ATION					DESCRIPTION		OTY
	(8)	(6)		NATIONAL					INC
	FIG NO	NO.	CODE	STOCK NUMBER	FBCM	PART NUMBER		UM	UNIT
								\vdash	
•							GROUP 0609 STOP, MARKER LIGHT		
	3	1	PA022	6220-01-141-0908	13548	402228	LIGHT -STOP -MARKER.	EA	2
								[]]	
	3	Z	PAOZZ	5305-00-855-0964	96906	N524629-48	SCREW; T APP LWG; T HRE A	EA	6
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Figure 4. Composite stoplight taillight

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SECTION II

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ſ	(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	ILLUSTR	ATION					DESCRIPTION		OTY
) E G E E E	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER		U/M	INC IN UNIT
-							GROUP 0609 COMPOSITE STOPLIGHT TAILLIGHT		
	•	1	PAOZZ	6220-00-134-9098	96906	M\$52125-1	STOP LIGHT-TAILLIGH	EA	?
	•	2	PAOZZ	6220-00-179-4324	19207	11639535	•LENS ,LIGHT	EA	1
	•	3	PAOZZ	5330-00-462-0907	19207	11639519-2	. PACKING , PREFORMED	E A	1
	•	•	PAGEL	6240-00-617-0991	96906	#535478-1073	•LAMP • [NCANDESCENT	EA	1
	•	5	PAOZZ	6240-00-143-3159	96906	MS15570-89	• LAMP ; I NCA NDESCENT	E A	1
	•	•	PAOZZ	593 5-00- 572-9180	19207	8338566	·SHELL,ELECTAICAL CO	EA	•
	•	7	PAOZZ	5310-00-833-8547	19207	8338567	. WASHER, SLOTTED	EA	4
	•		PAOZZ	5999-00-057-2929	96906	H\$27140-2	.CONTACT, ELECTRICAL	EA	4
	•		XAOZZ		19207	11639520	.800 Y ASSEMBLY	EA	1
	•	10	PAOZZ	6240-00-019-0877	96906	MS15570-1251	.LAMP.INCANDESCENT	EA	2
	•		PAGZZ	5310-00-437-9541	94906	M535338-44	WA SH FR. 1 (1C.K.	FA	
			84077	5305-00-115-9526	94.964		SC 85		
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	(1)	(2)	(3)	(4)	(\$)	(6)	(7)	(8)
	(a)	(b)		NATIONAL			DESCRIPTION		
	FIG NO.	ITEM NO.	SMR	STOCK	FBCM	PART NUMBER	USABLE ON CODE	U/M	
							GROUP DELS VIRING MARNESS ATTACHING PARTS		
	5		7802Z		19207	1230 7932-7	RE TAI NER WIRE	EA	2
	5	1	PAGEL	5305-00-055-0164	94904	N524629-48	SGRE 11, TAPP [NG, THREA	EA	216
	5	Z	79022	5975-01-147-2429	19207	12307932-7	RETAL NER, WIRE	EA	1
	5	3	P8022	5975-01-147-2430	19207	12307932-3	RE TAL NER, WIRE	EA	ı.
	5	•	P8022	5975-01-147-2431	19207	12307932-6	RETAINER, WIRE	E A	2
	5	S	PAOZZ	5340-00-725-5248	76906	#\$2133 4 -24	CLAMP,LOOP	FA	3
	5	6	PAOLZ	5325-00-174-9341	88044	AN934A 16-22	GROMMET, NONMET ALLI C	EA	1
	5	7	PAOLL	5325-00-579-6134	76904	M\$35489-80	GROMMET, NONMETALLIC	EA	1
	5	•	PAOZZ	5340-00-724-7038	76706	M\$21333-76		E A	11
	5	9	PNOLL	5340-00-664-9179	96706	MS35140-10	STRAP,RETAINING	EA	3
		10	PAOLE	5325-00-290-0074	76706	H\$35487-107	GROWING WING		16
			POULL	57/3-01-14/-1432	19207	1230/932-4	RE TAL RER, WIRCONSSION		2
		12	PRULL 84077	5310-00-5 M-5752		45353332-202			· · ·
			PA022	5305-00-984-6212	94904	#\$35204-265			,
	5	15	PBOZZ	5975-01-140-4796	19207	1230 7932-2	RETAINER. WIRE.	EA	1
	5	1.	PAOZZ	5340-00-050-2740	16706	M\$21333-75	GLANP,LOOP	EA	
ų.	5	17	PAGEL	5305-00-855-0964	76786	H524629-48	SCREW, TAPPING, THREA	EA	17
	5	10	PAOZZ	5305-00-984-6194	94904	#535204-246	SCRE W 0 MACHI ME	EA	•
	5	19	PAOZZ	5310-00-045-3244	16706	M535338-42	WA SHER , LOC K	FA	•
	5	20	PAOZZ	5310-00-934-9757	96906	MS35649-282	NUT , PLA I N, HEXAGON	EA	•
	5	21	PBOZZ	5975-01-147-1453	19207	12307932-1	RETAI NER, WIRE	EA	•
	5	22	PAGZZ	5325-00-754-1153	76706	N5354 89- 91	GROMMET, NONMETALLIC	EA	2
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		(2)	(3)	(4)	(5)	(6)	10	(8)
ILLUSTRA	TION		NATIONAL			DESCRIPTION		
FIG NO	ITEM NO	SMR CODE	STOCK	FSCM	PART NUMBER	UBABLE ON CODE	une	IN
						GROUP 0513 WIRING MARNESS, DOLLY TAILLIGHTS		1
•	L	NFFZZ		19207	12315496	WIRING MARNESS NFO FROM NSN 6145-00-705-6678 (140 FT)	EA	
•	Z	PAGZZ	2590-00-695-9076	19207	8338569	-SMELL, MEAD LIGHT CI	E.	1
•	3	PAGZZ	5310-00-248-8903	19207	8338570	. WASHER, FLAT	EA.	1
•	•	PA022	5940-00-399-6676	19207	8338564	.TERMINAL ASSEMBLY	EA.	1
6	5	PAOZZ	5940-00-557-2343	96906	#\$ 35436- 11	.TERMINAL,LUG	EA	l
•	6	PAOZZ	9905-00-893-3570	81348	M43436/1-3	•BAND •MARKER•••••••••••••••••••••••••••••••••••	EA	
•	7	PAOZZ	5935-00-686-2599	19207	8724258	.CONNECTOR, PLUG, ELEC	EA.	
•	•	PAOZZ	5975-00-771-6634	19207	7716634	.NU1,COUPLING,ELECTR	EA.	
•	9	PAOZZ	5365-00-090-5426	19207	7722333	. BUSHI NG , RUBBER	EA	
•	10	PAOZZ	5310-00-393-6685	19207	1723309	• NUT , PLAL N, K NURLEO	E N	
•	11	PAOZZ	9905-00-752-4649	81348	M43436/1-1	•BAND ;MARKER	EA.	2
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LUSTRA	ATION					DESCRIPTION		
(a) FIG	(b) ITEM	SMR	NATIONAL STOCK					INC IN
				FSCM		UBABLE ON CODE		
						GROUP OG13 WIRING MARNESS & PLUG ASSEMBLY		
7	L	MFFZZ		19207	12315647	WERENG HARNESS MED FROM NSN 6145-00-705-6678	EA	1
7	Z	PAOLL	5940-00-557-2343	96906	#\$ 35436-11	. TER MI NAL , LUG	EA.	
7	3	PAOZZ	9905-00-752-4649	81348	M43430/1-1	• BAND • MARKER • • • • • • • • • • • • • • • • • • •	E4	
7	•	PAGZZ	5935-01-141-0677	98343	162	.CONNEC FOR ,PLUG, ELEC	FA	
1	s	12001	2590-01-141-0876	19207	12315646	PLUG ASSEMBLY	EA.	
1	•	PAOZZ	5935-00-691-5591	19207	8724495	·SHELL,ELECTRICAL CO	EA.	
1	7	PAGZZ	5999-00-926-3144	96906	MS27140-3	• CONTACT, ELECTRICAL	EA.	
1		PAOZZ	5310-00-656-0067	19207	8724497	. wASHER , SLOT TEO	EA	
1	9	PAOZZ	2540-01-068-4746	13546	94926	• PLUG , ELECIRICAL	EA	
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SECTION II

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	(1)	ATION	(2)	(3)	(4)	(5)		m	(8)
1	(a)	(6)		NATIONAL			Descriminan		INC
	FIG NO	NO.	SMR CODE	STOCK NUMBER	FBCM	PART NUMBER	UBABLE ON CODE	U/M	UNIT
							GROUP OF 13 HIR ING MARNESS AND		
							CONNECTOR ASSEMBLY		
		L	MFFZZ		19207	12315448	WEREING HARNESS MED FROM ISN 6145-00-705-6678	EA	1
		z	PAOZZ	5935-00-846-3883	19207	8376208	.CONNECTOR, RECEPT ACL	EA	1
		3	PAOL	5365-00-090-5426	19207	7722333	• BUSH L NG , RUBBER	EA	1
-		•	P AD 2 2	5310-00-393-6689	19207	1723309	. NUT , PLALN, KNURLED	EA	1
		5	PAOZZ	990 5-00- 752- 444 9	81348	M43434/1-L	. 8AND , MARKER	EA	12
			PAOZZ	5940-01-147-3415	98410	8-1.75	.TERM. GUICK DISCON	EA	3
		7	PAGZZ	5970-00-043-1495	81349	#23053/1-103-0	INSULATION SLEEVING.	EA	,
			PAC11	5940-00-557-2343	96906	#535434-11	TERMINAL SLIC	FA	
					19203	12315500			
			PRULL		01340	A43436/1-1		[]	
	•		PAULL	3790-00-337-2393	10700	M232930-11	. TERM MAL, LUGO		
	•	12	PBOZZ	2790-01-141-0881	19207	12313045	LEAD, ELECTRI GAL		•
	•	13	PAQZZ	5940-00-557-2343	96906	A535436-11	• TER ML HAL , LUG	Ē	1
	•	14	PAOZZ	5940-01-147-3415	98410	0-175	• TERM, ; QUICK DISCON	EA -	1
	•	15	PAOZZ	5970-00-063-1495	81349	M23053/1-103-0	INSULATION SLEEVING	F٩.	1
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	(1) ILLUETR	ATION	(2)	(3)	(4)	(6)	(9) Description	m	(8) QTY
	3 6 9 6 8 9	(e) Item NO.	SMR CODE	NATIONAL STOCK NUMBER	POCM	PART Number	USABLE ON CODE	U/M	INC IN UNIT
	• • • •	1 2 3 4 5	HFF22 PA022 PA022 PA022 PA022 PA022 PA022	9905-00-873-3570 9935-00-771-6793 5365-00-090-5426 5310-00-373-6485 9905-00-752-4449 9940-00-557-2343	19207 81348 19207 19207 81348 96706	12315906 R43436/1-3 7716743 7722333 7723309 R43436/1-1 R535434-11	GROUP 0613 JIRING HARNESS, 4AIN WIRING HARNESS NFO FROM NSN 6165-00-705-6678 BAND, MARKER CONNECTOR, RECEPTACL BUSHING, RUBBER NUT, PLAIM, KNURLED SAND, MARKER TERMINAL, LUG.	EA EA EA EA	1 1 1 1 1 9
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	(1)		(2)	(3)	(4)	(5)	(6)	m	•
- 11	LUSTR	ATION					DESCRIPTION		
	(8)	(b)		NATIONAL			-		INC
	FIG	ITEM	SMR	STOCK		PART		0.00	UNIT
	~	~	wite		FacM		UBABLE ON CODE		
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							GRUUP II REAR AALE ADDENDLY		
							GROUP 1100 AXLE ASSEMBLY	1	
	10		PB#77	2530-00-624-0256	19207	8710744	AXLE.VENICULAR.MOND.		2
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SECTION II



Figure 11. Brake assembly

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(8) FIG NO	(b) ITEM	SMR CODE	NATIONAL STOCK	-	PART		Un	
				recen			-	+
						GROUP 12 BRAKES		
		PA077	5305-01-010-2362	-	#518154-50			
11	Z	PAOZZ	5310-00-437-9541	16706	M535330-44	WASHER.LOCK.		
11	3	11089	2530-00-232-6020	19207	8758357	DEFLECTOR, DI AT AND	EA	
u	4	P8022	2530-00-656-4895	19207	7409323	COVER,ACCESS	E.	
	5	PAOZZ	2530-00-920-7548	19207	8754259	CYLINDER ASSEMBLY, W	EA	
u	•	PAGZZ	2 530-00-272-8 104	19207	7413486	LINK, WIEEL CYLINDER	FA	
11	7	PA000	2530-01-054-9929	19207	8376667	BRAKE ASSEMBLY,VEHI	E 4	
11	•	PACZZ	5310-00-275-9440	19207	7207919	• NUT , PLAIN, HEX AGON	E A	
11	•	PAGZZ	5310-00-584-7888	96906	#539330-51	• WASHER , LOCK	E A	
11	10	PAOZZ	5360-01-036-8596	19207	11663025	• SPR1 NG , HE LI CAL, COMP	FA	
	11	PAOZZ	5310-01-040-7465	19207	11663232	. WASHER, RECESSED	Ē	
	12	PAULL	2330-00-182-1788 5315-00-740-8378	19207	11003791	- BRARE SHUESSESSESSESSESSESSESSESSESSESSESSESSESS		
		PADZZ	5315-00-842-3044	96906	H\$24465-283	• • • • • • • • • • • • • • • • • • •		
11	15	PAQZZ	5360-00-191-9339	19207	7979339	. SPRING ,HELICAL, EXTE		
11	16	PADZZ	5310-00-797-9332	19207	7979332	• WA SHER • SLOT FED	FA	
11	17	PAGZZ	531 9-00-44 1-3835	78500	175965	• PEN, SHOULOER, HEADLE	EA.	
11	18	PAOZZ	2530-00-204-3622	19207	79 79340	•LENK,ANCHOR,BRAKE S	E A	
11	19	PAOLE	5310-01-110-4242	19207	11003230	• NUT • SE LF - LOCK I NG • HE · · · · · · · · · · · · · · · · · ·	E٩	
11	20	PAOZZ	5360-01-037-1083	19207	11443233	• SPRING , HELICAL, COMP	E A	
11	21	PAOZZ	5310-00-897-5940	96906	#\$51922-45	NUT, SELF-LOCKING, ME	EA	
11	22	PAQZZ	5305-00-724-6772	96906	4590726-139	SCREW,CAP, MEXAGON M	= 4	
11	23	PAOZZ	2530-01-092-6445	19207	11662033	LENENG, FRECTEDA.		
**	~	PAULL	>320-00-443->067	19207	10040140	RI VE T, TUBULAR		
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Figure 12. Backing plate assembly

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SECTION LI

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ILLUSTR						DESCRIPTION		OTY
(8) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	u ne	INC IN UNIT
						GROUP 1202 BACKING PLATE ASSEMBLY		
12	1	P8022	2530-00-692-6133	19207	0332557	PLATE,BACKING,BRAKE	EA	4
12	2	PAOZZ	5320-01-049-8261	76706	M\$35743-76	•R1 VET, SOL 10	EA	•
12	3	PAGZZ	5310-00-732-0559	76706	H551968-8	. NUT , PLA I N , MEX AGON	EA.	z
12	•	PAOLL	5310-00-595-7237	96906	MS35333-42	. WASHER , LOCK	EA	?
12	5	PAOZZ	5315-00-740-9374	19207	7409376	• Pt N, SHOULDER, NE ADED	EA.	2
12	•	PAOZZ	2530-00-457-1676	19207	52 82 72 5	.C AM , AD JUS TI NG , BRAKE	EA	2
12	1	PAOZZ	5360-00-740-9382	63477	FC 14764	. SPRING, HELICAL, COMP	EA	2
12	•	PAOZZ	2530-01-031-4458	19207	11663231	.PIN, BRAKE, HOUNTING	E A	Z
12	9	PACZZ	2530-00-493-8809	19207	4756316	• PLATE, BACKI NG, BRAKE	EA	1
12	10	XADZZ		19207	7979334	• BRACKET	EA	1
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Figure 13. Hydraulic brake system

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SECTION LL

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	ILLUSTR	ATION					DESCRIPTION		OTY
	(B) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FBCM	PART NUMBER	URABLE ON CODE	u/M	INC IN UNIT
								+	
							GROUP 1204 HYDRAULIC WARE SYSTEM		
			PAULL	4/30-00-074-0731	• • • • • •	5130033		[]	
	13	2	PAULE	4730-00-729-6437	14207	7412079		[]	
	13	3	PAGZZ	5365-00-274-4544	19207	3234673		[]	
	13		PAQLL	4/30-00-414-4423	14207	7793989	CONNECTOR, ALR BRAKE		
	13	2	PAGEL	5310-00-357-0458	19207	5214930			
	13		PAGEL	4710-01-049-8922	19207	8742717	TUBE ASSEMBLY, METAL RH		
	13		PNOLL	4710-01-049-8921	19207	•/•2/1•	TUBE ASSEMBLY, METAL LH.	Ľ	2
	13		PAGEL	4/20-01-143-6992	19207	11004030		Ē	
	43		PAOZZ	5310-00-880-8189	70700	H531967-11	NUT, PLAIN, HEX AGON,	Ē.	2
	13	10	PROZZ	3310-00-209-0965	70706	R33333-47			2
	13	11	PACZZ	5305-00-071-1788	76906	R390728-87	SCREW, CAP, HER AGON H #ELDED		2
	13	12	PAGZZ	4730-00-876-7387	19207	5168136	CONNECTOR, AULT IPLE,	E 4	Ş
	13	13	PAGZZ		19207	12315741	BOLT, INTERNALLY REL	FA.	2
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	0	'	(2)	(3)	(•)	(3)	(6)	'''	(8)
1	ILLUSTR	ATION					DESCRIPTION		QTY
	(8)	(b)		NATIONAL					INC
	FIG	ITEM	SMR	STOCK		PART		U/M	
	NO	NO	CODE	NUMBER	FSCM	NUMBER	USABLE ON CODE	0,111	0.111
		I						11	
I							GROUP 1204 HYDRAULIC MASTER CYLINDER		
1	14	1	PAGZZ	2530-00-278-2243	19207	8332084	CYLINDER ASSENDER HA	FA	2
i									
	14	2	PAOZZ	4710-00-511-1692	19207	8365426	TUBE ASSEMBLY, METAL	EA	2
	14	3	PAGZZ	4730-00-908-3193	96906	#535842-12	CLANP HOSE	FA	2
	•								
	14	•	PAOZZ	4720-00-809-2750	96906	MS521301A20412	HOSE, PREFORMED	EA	2
	14	5	PAOZZ	5310-00-732-0559	96906	H\$51968-8	NUT. PLALN. HEXAGON	EA	6
								[]	
j,	14	6	PACZZ	5310-00-637-9541	96906	MS35338-46	WA SHER , LOCK	EA	6
	14	7	PAOZZ	5365-00-516-7878	19207	5167878	RENG, RETAINING	EA	2
									-
1	14	8	PAOZZ	2530-00-753-9308	19207	7539308	BELLOWS, PROTECTION	E A	,
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Figure 15. Air brake system

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SECTION II

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	0)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	ILLUST	ATION					DESCRIPTION		QTY
	(a) FIG NO	(b) ITEM NO.	SMR COUE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	INC IN UNIT
							CODIO 1200 AID ADAKE SVSTEN		
		.		2600-01-140-0200	09343				
			PAULL	2 370-01-140-0200	70343				
	15	Z	MUDZZ		19207	8376129			v
	15	3	PAOZZ	5305-00-052-7492	96986	M524629-61	SC RE W , T A PP I NG , T H NE A	FA	4
	15	•	PAOZZ	5305-00-855-0970	96906	MS24629-12	SCRE W, TAPPING, THRE A	FA	*
	15	5	PAOZZ	9905-00-999-7370	96986	#\$53007-1	PLATE, IDENTIFICATIO SERVICE	EA	1
	15	6	PAOZZ	4730-01-141-9268	98343	10462605	GLADHAND,SERVICE	EA	t
	15	7	PAOZZ	4730-00-270-4616	96906	H\$39179-6	ADAPTER , ST RA 1 GHT + P 1	E٩	?
	15		PAGZZ	9905-00-999-7369	96906	#\$53007-2	PLATE, IDENTIFICATIO EMERGENCY	FA	۱
	15	•	PAGZZ	4730-01-130-0907	98343	104626Æ	GLADHANO "E ME RGEN CT	EA	1
	15	10	PAOZZ	5340-00-901-8132	96906	MS21334-26	CL AMP ,L ODP	EA	7
	15	11	PAOZZ	5305-00-855-0964	96 906	#524629-48	SCRE W, I A PP I NG , I HRE A	EA	25
	15	12	PAGEL	5325-00-276-6040	96906	M\$35490-80	GROMMET, NONMET ALLIC	EA	R
	15	13	10077		19207	8489208	TUBE .NETALLIC		. v
			84077	5340-00-744-7051	94904	4521222-48			
				3340-00-744-7031	30700	M321333-07		[]	
	15	13	PAULL	4730-00-067-1186	70700	4234114-2	AUAP 1 ER 931 RA LOW 9P L		2
	15	10	PNUZZ	4/30-00-244-9848	19207	5228623	NIPPLE, I ANK		2
	15	17	PAOZZ	4730-00-595-0083	96906	MS35744-1	COUPLING HALF, QJICK	E 4	2
	15	10	P 8022	2530-00-741-1078	19207	7411078	RESERVOLA ALR	EA	1
	15	19	PAOZZ	4820-00-849-1220	96906	MS35782-5	COCK , DR AL N	FA	1
	15	20	PAGZZ	5310-00-732-0559	96906	#\$51968-8	NUT, PLAIN, HEXAGON	FA	6
	15	21	PAOZZ	5310-00-437-9541	96906	#\$3533 0-4 6	WA SHER, LOC K	E۹	6
	15	22	PAGZZ	5305-00-269-3250	96906	MS90727-74	SCREW, CAP, HEXAGON H	EA	2
	15	23	2308 4	5340-00-977-0815	19207	7411080	STRAP,RETAINING	E١	2
	15	24	P8022	5340-01-083-5527	19207	7411079	STRAP,REIAINING	= 4	2
	15	25	PAOZZ	4730-00-289-0051	96906	#539182-6	ELBOW,PIPE TO TUBE	EA	>
	15	26	PADZZ	5305-00-269-2003	96906	M590726-60	SCREW,CAP, HEXAGON H	EA	4
	15	27	PAOZZ	9905-00-999-7370	96906	AS53007-1	PLATE, I DENT I FICATIO SERVICE	-	1
	15	20	PAGEZ	4730-00-049-1187	96906	MS39182-3	ELBOW,PIPE TO TUBE	EA	2
	15	29	PAQZZ	4730-00-244-9848	19207	5228623	NL PP LE . TANK.	EA	,
	15	30	PA022	9905-00-999-7349	96904	M\$53007-2	PLATE JDENTIFICATIO EMERGENCY	FA	,
	15		PA017	4720-00-478-4128	19207	8747243			•
				A730-00-143-7-13		46 30 333-4			
		32			70700				
	17	33			19207		IUDE DE LALLIG APO FRUM RSM 4710-00-277-5529 (4FT)		v
	15	34	PNOZZ	5325-00-276-6051	76706	7535489-101	GROWINET & NONNET ALLI C	E A	1
	15	35	PAGZZ	4730-00-069-1186	96906	H\$39179-5	ADAPTER , STRA1GHT , P I	EA	1
	15	36	PAOZZ	4730-00-049-1187	96906	4539142-3	ELBOW,PIPE TO TUBE	= 4	4
	15	37	PAGZZ	5305-00-855-0964	96906	H524629-48	SLREW, TAPPING, THREA	EA	?
	15	38	PAOZZ	5340-00-809-1492	96906	MS21333-100	CLANP,LOOP	÷ A	2
	15	39	PAOZZ	5325-00-276-6040	96906	M\$35490-80	GROWNET, NONNET ALLI C	E٩	A
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	ILLUSTR	ATION							
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	(8) EIG	(D)	546	NATIONAL		PART			IN N
	NO.	NO.	CODE	NUMBER	FICM	NUMBER		U/M	UNIT
7								1 1	
	15		10022		19207	8489208	TURE METALLIC MED FOOD MEN 4710-00-203-3172 (2) FT.		v
									•
	15	41	PAOZZ	4730-00-069-1187	96906	#\$39182-3	ELBON,PIPE TO TUBE	EA	1
								L.	
	- 13	~	PAULL	7310-00-132-0771	70700	W221408-8	NUT ; "LA LN ; "CX ABON» ************************************	F* .	6
	15	43	PAOZZ	5310-00-637-9541	147 04	#535330-46	WASHER.LOCK	EA	6
y								Γ Ι	•
-	15	- 44	PAOLE	5305-00-269-2803	76706	H\$90726-60	SCREW, CAP, HEXAGON H	EA	6
				3630-00-162-1300	10201			L.	
	.,	•7	PROLL	2330-00-131-1340	14201	0130430		F¶	4
	15		X0022		19207	8742616	AIR CHAMBER ASSY	EA	2
								[]	-
	15	47	PAOLZ	5310-00-763-8905	96906	M\$51968-20	• NUT , PLA I N , HEXAGON •• • • • • • • • • • • • • • • • • •	EA	2
			84022	5310-00-030-0053	12407	23510			•
			FAULE	3310-00-020-0033	12003	6 X 1 V	· ####################################	F٩	~
	15	49	PACZZ	2530-00-142-6045	19207	11668361	CHANGER,ALR BRAKE	EA	1
								L	-
	15	50	PAOLZ	5330-00-090-2126	76906	#53574 8-1	PAGKING , PREFORMED	FA	4
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Figure 16. Relay valve



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	ILLUSTR	ATION					DESCRIPTION		
	(4)	(0)		NATIONAL					INC
	FIG		SMR	STOCK	FROM	PART		UM	IN UNIT
7	NU.	~	~~~~	NUMBER	PBUR		USABLE ON CODE		
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	1						CROOP ILVE RECHT VILVE		
	16	1	PAGEZ	2530-00-021-2366	76706	A\$\$3004-2	PARTS KIF, MECHANICA	F4	1
	16	2	PAGEZ	5310-00-732-0558	76706	#\$51967-8	NUT , PLAI N, HEX AGON	EA	3
			A4077	6310-00-43 L-0641					
				3310-00-031-3341	10100			[]	,
-	16	4	PAOLE	5305-00-249-2803	76986	N\$90726-60	SCREW,CAP,HEXAGON H	EA	3
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Figure 17. Wheel assembly

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(1) AATION	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(8)	(b)		NATIONAL			DESCRIPTION		OTY INC
FIG	NO	SMR	STOCK NUMBER	FSCM	PART NUMBER	UBABLE ON CODE	U/M	
						GROUP 13 HHEELS		
						GROUP 1311 WHEEL ASSEMBLY		
17		PAOZZ	5306-00-225-8496	96906	#\$90725-31	BOLT , MACHI NE	EA	24
17	2	PAOZZ	5310-00-407-9566	76906	M\$35338-45	wA SHER, LOCK	EA	24
17	3	PAGEL	2 530-00-542-1948	19207	8710744	COVER,ACCESS	EA	•
17	•	PAOLZ	5330-00-542-1947	19207	6710743	GASKET	EA	•
17	5	PADZZ	5310-00-220-2665	19207	10896720	NUT, PLAIN, HEXAGON	EA	R
17		PAOLZ	5310-00-752-1650	19207	10896695	WA SHER, KEY	EA	8
17	,	PAOZZ	3110-00-100-5951	96906	#\$19081-112	BEARING, ROLLER, I APE	EA	4
17		PBOZZ	2530-01-145-6819	19207	8710740	HUB AND DRUM ASSV LH	EA	2
17		PBOZZ	2530-01-119-1838	19207	8710741	HUS AND DRUM ASSY RH	EA	2
17		PAOZZ	3110-00-689-8250	60038	593A592A	BEARING, ROLLER, FAPE	EA	
17	10	PAOZZ	5330-00-740-9550	19207	7979349	SEAL, PLAIN ENCAS ED	EA	4
17	11	PAOZZ	2530-00-740-9553	19207	7409553	RING, WIPER	EA	
17	12	PAGZZ	2530-00-693-1029	96906	M\$53068-1	NUT, CAP, DUAL WHEEL	EA	15
17	12	PAOZZ	2530-00-359-1162	96906	M\$53068-2	NUT , CAP , DUAL WHEEL	EA	12
17	13	PAOZZ	5310-00-880-2004	96906	MS51983-3	NUT.PLAIN-SINGLE BA	EA	12
17	13	PADZZ	5310-00-880-2005	96906	4551983-4	NUT-PLAIN-SINGLE BA	ĒA	12
17	14	PADZZ	2530-00-024-0245	19207	7389621	WHEEL .PNEUMATIC TIR	EA	9
17	15	PAOZZ	2530-00-738-9620	19207	7389620	WHEEL PHEUNATIC TIR.	EA	8
17	14	PAGZZ	2530-00-738-9041	19207	7389061	RING SIDE AUTONOT IV	EA	
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Figure 18. Brake drum and hub



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	ILLUSTR	ATION		(3)			DESCRIPTION		
	(8)	(b)	مرو	NATIONAL	I	PART			INC
	NO.	NO	CODE	NUMBER	FSCM	NUMBER	USABLE ON CODE	U/M	UNIT
7							GROUP 1311 BRAKE DRUM AND HUB		
	10	1	PAGZZ	5306-01-062-2334	19207	79 791 79	BOLT ; RI BBED SHOULDE	EA.	\$7
	18	2	PADZZ	2530-01-110-4321	19207	8710742	ADAPTER, BRAKE DRUM	EA	•
	18	3	PAOFF	2530-00-093-5597	19207	7489394	BRAKE DRUM	EA	4
	1.6	•	PB022	2530-00-211-6129	19207	7979315	COVER .ACCESS	FA	
-	10	5	PA022	5310-00-209-0965	96906	#\$35338-47	VASNER.LOCK.	EA	40
	18	6	PAGZZ	5310-00-880-7745	96906	MS51968-11	NUT. PLAIN, HEXAGON	EA	40
	18	7	PB022	2530-00-757-1718	19207	0710736	HUB. WHE EL, VEHICULAR	EA	•
	18		PAGZZ	5304-00-733-9239	96906	H\$51944-1	BOLT .RI BBED SHOULDE	FA	12
	1.8		PADZZ	5304-00-383-4957	96906	HS51946-2	BOLT RIBBED SHOULDE	EA	12
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ILLUST	RATION					DESCRIPTION		οτγ
(8)	(b)		NATIONAL					INC
FIG NO	NO	CODE	STOCK NUMBER	FSCM	NUMBER	USAN E ON CODE	UM	UNIT
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						GROUP 1313 FIRE AND TUBE		
19	ંદ	PAOFF	2610-00-275-7995		22-1-381#/GP3/9.	TIRE , PNEUMATIC	EA	8
1	1			81348	00-20/E/18HR			
19	2	PAOZZ	2610-00-269-7383		22-1-550/GP2/9.0	INNER TUBE, PNEUMAT I	EA	8
	1			81348	0-20/1113C8/04CE			
19	3	PAOZZ	2640-00-810-5861	96906	MS51377-1	VALVE CORE	EA	8
19	4	PAOZZ	2640-00-060-3550	96906	MS51375-1	CAP, PNEUMATIC VALVE	EA	8
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Figure 20. Rear platform

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n)	3	(3)	(4)	(5)	(4)	m	(8)
ILLUETA (a)	(b)		NATIONAL			DESCRIPTION		
FIG NO	ITEM NO	SMR CODE	STOCK	FBCM	PART NUMBER	UBABLE ON CODE	um	
						GROUP 15 FRAME AND TOUING ATTACHMENTS		
						GROUP 1501 REAR PLATFORM		
20	8	25089	5340-01-152-4717	19207	12315420	BRACKET, NDUNTING	È4	
20	Z	X8022		19207	12315661	SPACER	EA.	
20	3	PAGEL	5310-00-225-6993	14706	H\$51922-33	NUT, SELF-LOCKING, ME	EA	
20	•	PAOZZ	5310-00-809-9998	96986	M\$27103-18	WASHER,FLAT	EA.	
20	5	PAOZZ	530 5-00 -225-908 L	76906	M\$90725-36	SC REW ,C AP , HE X AGON H	EA.	
20	•	PAOZZ	5340-01-087-6921	19207	11694622	HENGE,REAR PLATFORM	EA	1
20	7	PAOZZ	5305-00-071-1761	96906	A\$90725-128	SCREW, CAP, MEXAGON M	E A	
20	•	PAGZZ	5310-00-081-4219	76706	#\$27183-12	WASHER, FLAT	EA.	
20		PAOZZ	5310-00-984-3896	96906	A351922-9	NUT, SELF-LOCKING, ME	Ē	
20	10	MOULL		81349	GL1,FORMU,CY1	TUBLING AFD FROM INSN	T	
20	11	MODZZ		01340	RAC 271 . T V1 .GAC . C L 4, 0. 25	CHAEN NEO FROM NSN	FT	
20	12	PAGEE	4010-01-032-2207	19207	7368629	LI NK, CHAIN, CONNECTI NFO FROM NSN	EA	
20	13	PA022	5340-01-137-3818	19207	12315611-1	PIN, QUICK RELEASE	F 4	
20	14	M00 2 2		81346	RRC271 TY2,CL7,0 .135	CHAEN NFO FROM NSN	FT	
20	15	PA022	530 5-00- 071-2241	96906	#\$90725-10	SCREW,GAP, MEXAGON N	E 4	
20	16	PAQZZ	5305-00-432-4203	96906	MS51861-47	SCREW, TAPPING, THREA	E 4	
20	17	XBOZZ		19207	12315660	PLATE, ATTACHI NG.	EA.	
20	10	PAOZZ	5310-00-809-4056	76786	A\$27183-10	WA SHER , F LAT	EA.	
20	19	PAGEE	5310-00-088-1251	76766	A\$51922-1	NUT, SELF-LOCKING, NE	EA.	
20	20	PAOZZ	5310-00-009-4050	96906	#527103-10	WA SHER, FLAT	EA.	
20	21	PAGEZ	5310-00-088-1251	96906	#\$51922-1	NUT, SELF-LOCKING, HE	EA.	
20	22	PADZZ	5305-00-071-2510	76706	A\$90720-13	SCREW +C AP + HEXAGON H		ľ
20	23	PAGZZ		19207	12315706-2			
20		PAULL	3903-00-071-2241	10700	M34015>-10	SCREW, CAP, HEXAGON H		
20	23	ABULL 84077		19207		ER S. RE1 ; LAUDER		
20	27	X8077		19207	12315541	SPAC FR.		
20	20	PADZZ	5305-00-784-6214	96906	MS35200-267	SC RE W . MACHI NE.		
20	29	PAQLE	5340-01-145-6829	19207	12307790	BUMPER . RUBBER.		
20	30	PAOZZ	5310-00-823-8804	96906	#\$27103-9	WA SHER, FLAT	EA	
20	31	PAGEZ	5310-00-934-9754	16906	#5354 49- 202	NUT, PLAIN, NEXAGON	EA	
20	32	X 900 Z		19207	12315443	PLATFORM ASST REAR	EA	
20	33	PB022	2540-01-152-8800	19207	11484305	HANDLE ASSENDLY	EA	
20	34	XBOZZ		19207	10091309	BRACKET	EA	
20	35	PAOZZ		19207	12308151-24	RI VET ,8 LI ND	EA	1
						F -51		







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		S ECT JON	81			<u>th</u> 2330-304-146	_	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a)	(b)	-	NATIONAL		PART	DESCRIPTION		
NO	NO.	CODE	NUMBER	FSCM	NUMBER	USABLE ON CODE	U/ N	UNI
						GROUP 1501 SIDE PLATFORM		
21		PBOZZ	5340-01-144-9020	19207	12315512	BR AG KET , ANGLE	EA.	1
21		P8022	5340-01-150-1027	19201	12315396	BRAC KET , MOUNT I NG , EY	E4	1
21	2	PAOZZ	1670-00-020-4079	96904	MS27756	SNAP HOOK ASSY	EA	
21	3	PAOZZ			HIL-1-631 TYPF, GR	TUB1NG	FT	
				•13•1	RRC271, TY1, GRC,	CHAIN MFD FROM NSN	FT	5.
21		PADZZ	4010-01-032-2207	81348	CL4,0.25	LINK -C-1AIN-CONNECT I NED FROM NSM	EA	
21		XOOZZ		19207	12315344	SLDE PLATFORM ASSY	EA	
21		PAOLL	5310-00-087-4652	96700	M\$51922-17	NUT, SELF-LOCKING, HE	EA	
21		PAGZZ	5310-00-080-4004	96906	M\$27183-14	WA SHER, FLAT	EA	
21		XBOZZ		19207	12308149	BR AC KE T , MOUNT [NG	FA	
21	10	PAOZZ	5305-00-942-2196	76906	MS18154-60	SCREW,CAP, HEX AGON H	EA	
21	11	PADZZ	5305-00-855-0973	76706	MS24629-24	SCREW, TAPPING, THREA	EA	:
21	12	M0022		81348	RRC271, TY2, CL7, 0	CHAIN NFO FROM NSN	FT	
21	13	PAOZZ	5340-01-137-3818	19207	12315611-1	PIN, QUICK RELEASE	FA	:
21	14	PAGEE		19207	12315706-2	WIRE ROPE ASSEMBLY	EA	1
21	19	PAOZZ	5310-00-088-1251	16906	M\$51922-1	NUT,SELF-LOCKING,ME	EA	10
21	14	PAGZZ	5310-00-809-4058	96906	MS27183-10	WASHER,FLAT	EA	10
21	11	PAOLE	2540-01-145-8253	19207	12306102	BRACKET,LAODER	EA	7
21	10	PAGZZ	5305-00-225-3839	96904	# \$ 90 72 5 - 8	BOLT , MACHINE	EA	1.
				I				
						5-22		

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SECTION II

TH 9-2330-364-146P

	(1) ILLUSTR) ATION	(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
	(a) FIG NO	(d) Item NO.	SMR CODE	NATIONAL STOCK NUMBER	FBCM	PART NUMBER		um	INC IN UNIT
V							GROUP 1504 SPARE WEEL CARRIER		
	22	1	PAGZZ	5310-00-768-0318	96906	H\$51967-14	NUT, PLA I NºHEX AGON.	EA	4
	22	2	PAOZZ	5310-00-584-5272	76706	M\$35338-48	washer, LOCK	EA	•
	22	3	PAGZZ	5305-00-915-8087	96906	M518154-113	SCREW,CAP,HEXAGON H	FA	4
	22	•	PAOZZ	2510-00-752-1140	19207	7521160	CARALER	EA	ı
	22	5	PAOZZ	5315-00-234-1444	96906	N 52466 5- 495	.P1 N+COT TER	EA	1
	22	6	PAOZZ	2510-00-752-1157	19207	7521157	RATCHET WHEEL	EA	1
	22	7	PAOZZ	2510-00-752-1163	19207	7521463	.FRAME ASSEMBLY	EA	1
	22	8	PAGZZ	5310-00-017-9721	19207	7418892	•NUT •PLAIN•HEXAGON••••••••••••••••••••••••••••••••••••	E4	5
	22	9	PAGZZ	2510-01-140-8207	19207	8352662	. ME HOER , PI CK UP	EA	1
	22	10	PAOZZ	5306-00-017-9722	19207	1739666	• BOL T _e U.	E4	2
	22	11	PAOZZ	4010-01-074-5029	19207	7521159	.ROPE,WIRE	EA	1
	22	12	PAOZZ	5310-00-582-5965	96906	#\$3533 0- 44	. WASHER , LOCK	E٩	4
	22	13	PAQZZ	5310-00-761-6882	96906	M551967-2	• NUT • PLAIN • MEXAGON • • • • • • • • • • • • • • • • • • •	EA	4
	22	19	PAULL	5320-00-285-1025	19207	8327759	• RI VE T ₁ SQL 10	EA	l
	"	13	PAULL	3040-00-752-1156	19207	/521150	• PAWL•• • • • • • • • • • • • • • • • • • •	EA	1
							CC-3		
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Figure 23. Landing gear

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1		_	(7)		(4)	<i>(</i> ()	j a	m	/#1
	(1) NLLUBTR	ATION	44) 194	t de	(-)	147		["]	. (9)
	(@)	(0)		NATIONAL			LEBURIT I UM		INC
	FIG NO:	ITEM NO.	CODE	STOCK NUMBER	PECM	PART NUMBER	USABLE ON CODE	U/M	UNIT
							GROUP 1507 LANDING GEAR		
	23		PA02 2	2999-01-139-1445	74410	JS- 5-000A			,
	23		84022	5305-00-734-5010					
		-	AB077	200-01-120-2022	10201				••
				2500-01-130-3073	10201	12313307		[]	
	23		10022	2340-01-130-3444	14207	12313300			2
	23		74022	3310-00-820-8673	12003	23210	HA SHER 9 LUC, R		• 6
	23	•	PAOLE	5310-00-763-0420	76796	A221407-20	NUT; PLAIN; MEXAGUN	E A	45
	23	, ,	XDOLL		74410	HV-1980-4-0	SMCE	EA	Z
	23	•	PAOZZ	5340-01-137-3019	19207	12315611-2	PI N, QUICK RELEAS F	EA	7
	23	•	PAGZZ	5120-01-130-7195	74410	V-90-3	HANDLE, MECHANIGAL J	EA	Z
	23	10	10022		81348	MR-C-271.TV 2.CL 7, 0.135	CHAIN NFO FROM NSN	FT	v
	23	11	PAGEL	5305-00-269-3217	16706	M\$90725-67	SCREW,CAP.HEXADON H	EA	z
	23	12	PAOLL	5310-00-080-6004	96906	#\$27183-14	WASHER, FLAT	EA.	•
	23	13	PAOZZ	5310-00-007-4652	16706	H551922-17	NUT, SELF-LOCKING, HE	EA	2
		1	8						
							7 -57		

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Figure 24. Leveling jack

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1	11		(2)	(\$)	(4)	(6)	/h	m	(8)
	ALCONT IN						DESCRIPTION		OTY
	na		SMR	STOCK		PART			IN
	NO.	NO.	CODE	NUMBER	FICM	NUMBER	UBABLE ON CODE	0/14	UNIT
7									
							GROUP LOOF LEVELING JACK		
	24	1	POCZZ	2 990-01-130-4003	19207	12315305	SHOE, VENICLE SUPPOR	EA.	2
	24	2	PACLE	5310-00-087-4652	96906	#\$51922-17	NUT, SELF-LOCK ING, HE	EA	4
	24		PIC 22	5365-08-248-3214	-	# 598 72 5-44	SCREW.CAP.NEYAGON H.		
								[]	
-	29	٦	PAULZ	3362-66-154-2416	70700	H340153-105	35 Hz H 96 A F 9 Hz X A6UH - Ho o o o o o o o o o o o o o o o o o	FA	24
	24	5	PAOZZ	5310-00-020-0653	12003	23610	WASHER , LOC K	EA	28
	24		PAGZZ	5310-00-763-8920	96986	#\$51 967-20	NUT, PLAIN, HEXAGON	EA	28
	24	,	PAGZZ	2990-01-130-4002	19207	12315277	LEG.SEMITRAILER RET	EA	,
	~		PALLE	2210-00-132-0336	-	4327.401-0	MUI 9 FLA I R9 MEA AQUA	F* 1	
	24	•	PACZZ	5305-01-144-7386	19207	12315510	SOLT,HEX HEAD	EA	2
	24	10	PAOLZ	5120-01-130-7199	74410	V-90-3	HANDLE, MECHANICAL J	EA	,
	24	11	PAOZZ	5340-01-137-3819	19207	12315611-2	PIN, QUICK RELEAS E	EA	2
			10012			BB-C-371 7-53 44	CUATE		_
		•*	MAULL		81348	7,0.135		[']	v
	24	12	PAGZZ	5305-00-249-1243	96904	A590727-47	SCREW.CAP.NEXAGON H	EA	,
i									-
	24	14	PAULL	310-00-000-6004	76706	#527183-14	WA SMER, PLAI	Ε٩.	•
	24	- 15	PAOZZ	5310-00-087-4652	96966	#\$51922-17	NUT,SELF-LOCKING,HE	EA	2
								1	
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Figure 25. Springs





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			r				T	<u> </u>
(1)		(2)	(3)	(4)	(5)	(6)	m	(8)
(a)	ATION		NATIONAL			DESCRIPTION		
FIG NO	ITEM NO	SMR CODE	STOCK	FSCM	PART NUMBER	USABLE ON CODE	U/M	IN
							+	
						CROWD LADE CREMES AND SHOCK RESOLUTION		
28			25 10-01-1 20-04 70	48207	12316343			
25			2510-01-135-3878	19207	12313343		[]	
23	2		2790-01-100-4001	92901	814-00		[•
25	3	PBFLL	2320-01-101-2554	92967	7640-00	·PLATE, WEAR, LEAF SPR	EA	2
25	4	PAFZZ	3305-00-726-2555	96906	M590727-168	• SCREW, CAP, HEXAGON H	EA	8
25	5	XOFZZ		92967	859-00	•PLATE	EA	2
25	•	PBFZZ	2510-01-1+1-5301	92967	10054-00	• SPRING + ASSY + LEAF• • • • • • • • • • • • • • • • • • •	EA	2
25	7	PBFZZ	25 10-0 1-1 41-5297	92967	850-01	- MANGER + I RUNI ON	EA.	2
25	8	POFZZ	4730-01-140-6473	92967	893-01	• TUBE • TRUNION• • • • • • • • • • • • • • • • • • •	EA	1
25	,	PAFZZ	5305-00-940-8069	96906	M590727-197	SCREW, CAP, HEXAGON H	EA	•
25	10	PAFZZ	5306-01-139-1835	92967	9639-01	• BOL 1 +U	EA	•
25	11	PAFZZ	5310-00-763-8901	96906	H551968-23	. NUT , PL AL N, HEX AGON	E A	16
25	12	PAFZZ	5310-00-809-8533	96906	MS27183-23	• WASHER , F LAT	EA	32
25	13	PAFZZ	5306-01-098-7197	92967	10060-01	• 8 QL T ₇ U • • • • • • • • • • • • • • • • • • •	FA	8
25	14	PBFZZ	2510-01-100-9270	92967	9934-02	·SEAT .LEAF SPRING	EA	5
25	15	PBFZZ	2520-01-101-0935	92967	841-00	.HUB TRUNNLON,UPPER	EA	,
25	16	PAFLL	5310-01-098-7246	92967	837-00	•WASHER,FLAT	EA	•
25	17	PAFZZ	5310-01-098-7236	92 96 7	836-00	• NUT , PLAI N, HEX AGON · · · · · · · · · · · · · · · · · · ·	E A	. 8
25	18	PAFZZ	5365-01-150-6277	92567	890-00	·BUSHING,RUBBER	EA	2
25	19	PBF 22	2520-01-101-2551	92967	898-00	• TRUNNI ON , MUB , LOWE R	EA	2
25	20	PAFZZ	5310-00-763-8904	96906	M\$51968-21	• NUT , PLA ! N , HEX AGON	FA	8
25	21	PAFZZ	5310-00-820-6653	12603	23E 10	.WASHER .LOCK	EA	8
25	22	PAFZZ	5310-00-823-8803	96906	H527183-21	.WASHER,FLAT	E٩	16
25	23	PAFZZ	5310-00-225-6408	96906	H\$51922-53	• NUT , SE LF - LOCKING, HE	EA.	16
25	24	PBFLL	25 10-01- 100-9271	92967	10712-00	SPRING SEAT	EA	2
25	25	PAFZZ	2510-01-138-9158	92967	10049-00	.CAP, END SPRING	EA	•
25	26	PAFZZ	5305-00-726-2551	96906	M590727-164	SCREW, CAP, HEXAGON H	EA	16
25	27	PAFLL	5310-00-763-8901	96906	MS51968-23	• NUT , PLAIN, HEXAGON	E4	•
25	28	PAFZZ	5310-01-098-7247	92967	895-00	. WASHER , F LAT	EA	,
25	29	POFZZ	2510-01-101-2890	92967	10608-00	• PLATE , ALIGNMENT , LEA	EA	z
25	30	XBOZZ		19207	12315559	ANGLE	EA	2
						F-61		

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Figure 26. Rear door

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			s ect ion	11			<u>14 9-2330-364-146P</u>		
	(1)		(2)	(3)	(4)	(5)	(6)	0	(8)
	ILLUSTR	ATION					DESCRIPTION		
	(0)	(b)		NATIONAL					INC
	FIG	ITEM	SMR	STOCK		PART			IN
	NO	NO	CODE	NUMBER	FSCM	NUMBER	USABLE ON CODE	UN	UNIT
ų.								+	r
									(
							GROUP 18 BODY		í I
									, I
							GROUP 1801 REAR DUUK		, I
2	26	1	PAOZZ	5320-01-139-9774	11815	55P V-86	RI VET ,8LI NO	EA	, ,
		_							
V	20	Z	POLL	2340-01-142-2030	14201	12313567	HANDLE & LOCK ASSY	FA	1
•	26	3	PBOZZ	2540-01-142-2829	19207	12315569	-HANDLE DOOR	EA	
	26	•	PBOZZ	5340-01-138-7153	14550	5624-8	••ESCUTCHEON PLATE	EA	1
	26	5	PAOZZ	5310-01-138-7040	19220	5631-18	WASHER, SQUARE MOLE	EA	. , !
	26	6	PROZZ	5330-01-137-9578	07700	84- TBA	•• O-R[NG••••••••••••••••••••••••••••••••••••	EA	L L
	26	1	PFOZZ	2540-01-152-1056	19207	12307731	HANDLE DODR	FA	, , ,
	26	•	PBOZZ	2540-01-152-8882	19207	12315674	• HA NDLE , DOOR	EA	1
	26	•	P 1022	5315-00-018-6507	96904	H\$35671-52	PIN.GRODVED.HEADLES	FA	, , ,
		•							ſ
	26	10	PB022	5340-01-141-0884	19220	2525-55	.PIN,QUICK RELEASE	EA	1
	26	11	PA072	5345-01-132-3844	19207	12315478-2	SP ACER. PLATE	FA	, ,
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					<u>^</u>
	26	12	PAOZZ	5365-01-137-3887	19207	12315466-2	SPACER, PLATE	EA	2
	26	13	PA077	5365-01-13 - 3888	19207	12315478-1	SPACER . PLATE	FA	
									•
	26	14	PBOZZ	2 540-01-139-96 79	19220	1-2525-50R	LOCK,DOOR,VEH	FA	1
	26	15	PA077	5345-01-137-3869	19207	12315444-1	SPACED. M ATE	-	
		••				10303400 1		F 1	
	26	16	PAOZZ	5315-00-236-8353	96906	HS24665-306	PI N, COT TER	EA	6
	24	17	84022	5340-01-145-1450	19267	1 221 6477	SAACED DI ATE	-	
	20	• •	FAULE	3340-01-147-1630	17201	12313411	3FAUER+FLATE		<i>c</i>
	26	18	PAOZZ	5310-00-582-5965	96906	#\$35338-44	WASHER, LOCK	EA	20
	24	10	84022	5305-00-275-3839	-	#5.00778-0			
	20	.,	TRULL	JJ0J-00-22J-J0J9	70700	N37V127-0		F*	2"
	26	20	PBOZZ	2510-01-145-6824	19207	12315464-2	R00, L0C KI NG	EA	,
N	26	21	PB077	3040-01-141-0912	19207	12115465	10T K 800 801 F		
•		••						F•	
,	26	22	PBOZZ	5340-01-137-9367	19220	M4790-50	ROLLER LATCH ASSY	EA	,
	26	22	PB022	5325-01-152-2378	19220	1-2929-52		-	,
									· · ·
	26	24	PAOZZ	5305-00-052-6878	96906	HS24627-54	SCREW, TAPPING, THREA	EA	4
	26	25	PAG22	5340-00-465-2212	19220	4300	HANDI F. 80M	E.	
		• •							•
	26	26	PBOZZ	2510-01-137-6265	19207	12315565	REAR DOOR ASSY	FA	1
	26	27	PA077	5305-00-855-0945	96904	H524429-38	SC RF M.T APPING. THREA.	-	74
	i	- ·							10
1	26	28	PB022	2510-01-137-3359	19207	12315656-3	RETAINER,DOOR STRIP	EA	2
1	26	29	PBOZZ	2510-01-137-3360	19207	12315630-6	RETAINER-SEAL		,
								[]	•
	26	30	PAOZZ	5305-00-562-2742	96906	MS24628-36	SCREW,TAPPING,THREA	E.	134
	26	31	MOOZZ		07700	21-00009	SEAL, RUBBER CHANNEL NED FROM NSN 5330-01-140-2424 (22 FT)	EA	2
									-
	26	32	PBOZZ	2510-01-137-3361	19207	12315630-7	RETAINER, SEAL	EA	2
	26	33	PB022	2510-01-137-3362	19207	12315656-1	RETAINER-DOOR-STRIP-	FA	,
	26	34	PBOZZ		19207	12315434	HINGE,BUTT	FA	5
	26	35	PAGZZ	5305-00-719-5279	96 906	#590727-129	SCREW-CAP-HEXAGON H.	= A	5
									-
	26	36	PAOZZ	5340-01-139-1836	19220	5985-50	STRAP HINGE	EA	5
	26	37	PAOZZ	4730-00-050-4203	96904	MS15001-1	FITTING . LUBRICATION	EA	5
								[]	
	26	38	PBOZZ	2510-01-137-3363	19207	12315630-5	RETAINER,SEAL	EA	2
									1
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	(1)		(2)	(3)	(4)	(5)	(6)	0	(8)
1	ILLUSTR	ATION					DESCRIPTION		OTY
•	(a) FIG	(b) ITEM	SMR	STOCK		PART			IN
	NO	NU	CODE	NUMBEN	FUCM	NUMBER	USABLE ON CODE		
7									
	26	39	PAGZZ	5310-00-732-0560	96906	#\$51968-14	NUT , PLA I N , MEX AGON	EA	5
	26	40	PBOZZ	2510-01-137-3364	19207	12315630-8	RETAINER, SEAL	EA	2
•	26	41	3200H		19207	12315658	SEAL, RUBBER MFD FROM NSN	FT	۷
	26	42	PAGZZ	5310-00-809-5998	96906	M\$27183-18	WASHER, FLAT	EA	20
y	26	43	PBOZZ		19207	11044220	HOOK , SLI P	EA	1
	26	44	PAGZZ	2540-00-584-7579	19207	8470444	STRA P. WE 08 [NG	EA	1
	26	45	PA077	5310-00-809-4058	96906	#527183-10	MA CHER . FI AT.	FA	,
					10701				
	20		XOULL		19207	11040307			2
	26	47	PAOZZ		96906	MS24629-78	SC RE W, I APP I NG , T HRE A	FA	•
		1							
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SECTION II

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	ILLUSTR	ATION					DESCRIPTION		οτγ	
	(a) Fig NO	(d) ITEM NO:	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	LIBARLE ON CODE	u/M	INC IN UNIT	
Ţ										-
						660 1	GROUP 1801 STOE DOOR	L.		
				3520-01-137-3774	11013	337 7- 80			, s	
		-		2540-01-142-2030	19207	12313207				
	21	2		2340-01-136-2029	19207	12313307				
]		5340-01-136-7153	19220	>02 - 0				
	41	1		5310-01-130-7040	17220	563[~]B		[]	1	
				3330-01-137-4378	07700	64- 18A			1	1
	21	· [PTULL	2540-01-152-1030	19207	12307731			1	
	21	•	PBUZZ	2340-01-132-8882	19207	12313674			1	
	21		PNULL	5315-00-018-6507	90900	H333071-32			2	
	21	10	PULL	3340-01-141-0884	19220	2327-33			1	
			PAULL	3307-01-137-3886	19207	12313478-2	SPACER, PLAIE		z	
	21	12	PAULL	5365-01-13 <i>1</i> -388 <i>1</i>	19207	12315466-2	SPACER, PLAIE		2	
		13	PAULL	5365-01-137-3888	19207			E.		
	21	14	POULL	2740-01-134-9674	19220	1-2929-90K		[]		
	21	13	PAULL	5367-01-13/-3889	19207	12313466-1	SPALER, PLAIE		1	
		1.6	PRUZZ		46906	H 329607-306				
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		PRUZZ	5340-01-145-1650	19207	12313477			2	
	21		PAUZZ	5310-00-382-3983	96906	H 537338-44			20	
	21	17	PAULL	3303-00-225-3839	96906	M590725-8			20	
	21	20	PBULL	2510-01-145-6823	19207	12313484-1			2	
	21	21	PBUZZ	3040-01-141-0912	19207	12313485			2	
	21	22	P8022	5340-01-137-9367	19220	H4790-50	ROLLER LATCH ASSY		z	
Ţ	27	23	P8022	5325-01-152-2378	19220	1-2525-52			7	
	21	24	PAUZZ	5305-00-052-6878	96906	M 52462 7-54	SCREW, TAPPING, THREA	Ē	•	
	27	25	PAGEZ	5340-00-665-2212	19220	4300	HANDLE, BOW	EA	1	
	27	26	PBOZZ	2510-01-137-6266	19207	12315281	SIDE DOOR ASSY	EA	1	
	27	27	PAGZZ	5305-00-855-0965	96906	M\$24629-38	SCREW, TAPPING, THREA	EA	56	
	27	28	PBOZZ	2510-01-137-3365	19207	12315656-4	RETAINER,000R,STRIP	EA	2	
	27	29	PBOZZ	2510-01-137-3366	19207	12315630-2	RE TAINER, SEAL	EA	7	
	27	30	PAUZZ	3303-00-562-2742	96906	H 524628-36	SURE W , I APPING , THRE A	EA	104	
	27	31	NUCZZ		07700	21-00089	SEAL NOD FROM NSN 5330-01-140-2424 (17 FT)	['	v	
	27	32		2510-01-137-3367	19207	12315630-3	KE 1 A 1 NE R 5 SEA L	EA	2	
	21	33	PBOZZ	2510-01-137-3368	19207	12315656-2	RETAINER, DOOR, STRIP	EA	2	
	27	34	P8022		19207	12315634	HENGE , BUT 1	FA	4	
	27	35	PACZZ	5305-00-719-5279	96906	M\$90727-129	SCREWICAP, HEX AGON H.	EA	4	
	27	36	PAOZZ	5340-01-139-1836	19220	5985-50	STRAP +11 NGE	FA	•	
	27	37	PAUZZ	4730-00-050-4203	96906	#515001-1	FITTING, LUBR ICATION	FA	•	
	21	38	POOLL	2510-01-137-3369	19207	12315630-1	RETAINER, SEAL	EA	7	
	27	39	PAQZZ	5310-00-732-0560	96986	MS51968-14	NUT, PLAIN, HEXAGON	EA	4	
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	FIG	ITEM	SMR	STOCK		PART		una	UNIT
	NU.	NU.	CODE	NUMBER	PSCM	NUMBER	USABLE ON CODE		••••
V									
·	27	40	22089	2510-01-13 7-3370	19207	12315630-4	RETAINER, SEAL	EA	2
	27	+1	MOOZZ		19207	12315658	SEAL, RUBBER MFD FROM NSN	FT	v
				5310-00-000-500 C					
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	•4	PAULL	2310-00-004-2428	70700	W951183-19	WA 371E K; F L 4 1	F •	10
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	ILLUSTR	ATION					DESCRIPTION		άτγ
	(2)	(b)		NATIONAL					INC
	FIG NO.	ITEM NO.	SMR	STOCK NUMBER	FSCM	PART NUMBER		U/M	
							USABLE ON CODE		
•							GROUP 1801 MISCELLANEOUS BODY ITEMS		
				6306-00-003-003	-			-	12
	~•	•	******	2202-00-005-0051	70700	H326151-700	JURE # 90 AP 9 MEX MOUN No	F	
•	20	Z	PAOZZ	5310-00-809-8533	96986	H\$271 83- 23	WA SHER, FLAT	EA	12
	28	3	PAOZZ	5310-00-982-4810	76786	#S21044N12	NUT, SELF-LOCKING, HE	EA	12
				6106-00-04 2-2104	-	#51015A-40	5095H . C A.B. MEY ACON N.	-	
	20		FRULL	3307-00-742-2170		H3T6T34-66	36 NEW 96 NF 9 NEX NOUN TO	-	-
	28	5	PAOZZ	5310-00-437-9541	14786	N \$35338-46	WA SHER, LOC K	EA	٩
	28	•	PADZZ	5310-00-732-0550	76706	MS51967-8	NUT, PLAIN, HEXAGON	EA	8
		,	84077	2548-08-897-5917	19247	10002200	CHARA-SOLASH-WENICH	FA	2
		'	THULL						E.
	28	•	PAOZZ	5345-00-717-5617	19207	10944341	SPACER, PLATE	EA	2
	28	•	PBOZZ	5365-00-823-4836	96786	H\$51925-6	R1 NG "DEE	EA	18
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Figure 29. Stowage box

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SECTION 11

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29 1 XDQ2Z 2900-01-124-9289 19207 12315729 GROUP 1801 STGMAGE BOX 29 2 PA02Z 2590-01-124-9289 19207 114844673-1 P1 Nr10CK TENSION P1 Nr10CK TENSION 29 3 MOOZZ 81348 RC271, TY2, CL7, 0.135 CHAIN MTD FROM NSH CHAIN MTD FROM NSH 29 4 X002Z 19207 12315721 STGMAGE BOX 29 4 X00ZZ 19207 12315709 MANGER 29 4 X00ZZ 5320-01-150-9681 19207 12315709 MANGER 29 4 PA0ZZ 5320-01-150-9681 19207 1231544-3 RIVET, BLI ND PA0ZZ 29 7 PA0ZZ 5320-01-150-9681 19207 1231544-3 RIVET, BLI ND PA0ZZ 29 7 PA0ZZ 5320-01-150-9681 19207 1231544-3 RIVET, BLI ND PA0ZZ 29 7 PA0ZZ 5305-00-225-3839 96904 RS90725-4 SCREW, CAP, NEXAGON N PA0ZZ		USABLE ON CODE	
29 1 XDQ2Z 2990-01-124-9288 19207 12315729 BRACKET	7		
29 1 NOUZ2 19207 12313729 DRAUKEE 29 2 PADZZ 2390-01-124-9288 19207 11640473-1 PI N,LCCK TENSION			
29 2 PA02Z 2590-01-124-9268 19207 11684673-1 P1 N.LOCK TENSION		•••••• ••• •••• ••• ••• FA	•
29 3 MOOZZ 8/348 RRC271, TY2, CL7, OLAIN MPD FROM NEN : 29 4 XOOZZ 19207 12315721 STOWAGE BOX		EA	4
29 4 X002Z 19207 12315721 ST0wAGE BOX		PM	8
129 5 X80ZZ 19207 12315709 .HANGER		EA	1
29 6 PA02Z 5320-01-150-9681 19207 12315644-3 .RIVET, BLIND			•
29 7 PAQZZ 5320-01-150-9681 19207 12315644-3 .RIVET, BLIND			
29 7 PA022 5320-01-150-9681 19207 1231544-3 .RtVer, BLI ND			
29 8 PA022 19207 12315710 .HI NGE, BUT T		••••• EA	9
29 9 X802Z 19207 12315666 SPACER		•••••• EA	3
29 10 PA0ZZ 5305-00-225-3838 94906 HS90725-4 . SCREW, CAP, HEXAGON H. 29 11 PA0ZZ 5310-00-582-5965 96906 HS35338-44 . WA SHER, LOCK. 29 12 PA0ZZ 5310-00-761-6882 96906 HS35338-44 . WA SHER, LOCK. 29 12 PA0ZZ 5310-00-761-6882 96906 HS51967-2 . NUT, PLAIN, HEX AGON 29 13 PA0ZZ 19207 8328726 . CATCH, CLA MPING.		•••••• EA	3
29 11 PAQZZ 5310-00-562-5965 96906 HS35338-44 . WASHER , LOCK		EA	9
29 12 PA02Z 9310-00-761-6882 96906 HS51967-2 NUT, PLAIN, HEX AGON		FA	9
29 13 PAOZZ 19207 8326726 .CATCH,CLAMPING			
29 13 PA022 19207 8328726 .CATCH.J.CAMPING			
29 14 X8022 19207 12315740 SPACER	1	FA	3
29 15 X602Z 19207 12315723 .COVER		••••• EA	3
		EA	1
29 16 PBOZZ 19207 11684306 • LEVER ASSEMBLY		FA	2
29 17 PB022 2590-01-150-8355 19207 12308059 .BRACKET AND HINGE		EA	2
29 18 PADZZ 5305-00-008-0502 90900 NS90729-0 SCREW.CAP.NEXAGON M			
27 17 PAULE 5305-00-225-3837 96906 H590725-8 .BULT HALHINE		•••••• ••• ••• ••• ••• ••• ••• ••• •••	•
29 20 PACZZ 5310-00-562-5965 96906 AS35330-44		EA	8
29 21 PACZZ 5310-00-761-6882 96906 H551967-2 .NUT, PLAIN, HEX AGON		EA	8
29 22 X802Z 19207 12315731 .PLATE		EA	2
29 23 PAOZZ 19207 12308151-56 .RIVET, BLIND		EA	6
29 26 PAOZZ 19207 12308151-23 RIVET.811MD.		EA	2
	t		-
27 27 PRUZZ 17201 12313708-1 WIRE RUPE ASSEMBLT		E4	ć
29 26 PBOZZ 19207 11646228 HOOK, SLI P		•••••• EA	Z
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(1)	ATION	(4)	(3)	(*)	(5)	
(8)	(b)		NATIONAL			DESCRIPTION
FIG	ITEM	SMR	STOCK	FROM	PART	
						UBABLE ON
						GROUP 2202 REFLECTOR AND MANUAL CONTAINER
30	4	PAOZZ	5305-00-432-4252	96906	HS51861-66	SCREW, TAPPING, THREA
30	2	PAOZZ	9905-00-205-2795	96986	MS35387-1	REFLECTOR, INDICATIN
30	2	PAGEZ	9905-00-202-3639	96906	M\$35387-2	REFLECTOR, INDICATIN
30	3	P8022	2990-01-136-4809	19207	12307738	STOWAGE CONTAINER, M
30	•	PADZZ	5305-00-432-4254	96904	MS51861-69	SCREW, TAPPING, THREA
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Figure 31. Identification plates

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Lutration Introduct Income Introduct I		m		(27)	(3)	(4)	(5)	(8)	[<i>'''</i>]	(8)
Normalization Normalization Normalization Normalization States / List open 1/13/1000 PLATES Numerical interaction Numerical int		LUSTR	ATION					DESCRIPTION		OTY
No. Other Under Pool Maxim Outer of the Call time PARTES Autor on coor Aut Maxim 31 1 PARLE 7992-00-132-4324 1201 for the Call time PARTES 54.0 75.0 74.0 <td< th=""><th></th><th>(14)</th><th>(6)</th><th></th><th>NATIONAL</th><th></th><th></th><th></th><th></th><th>INC</th></td<>		(14)	(6)		NATIONAL					INC
Y W UARLY FEG LOWERT CARDIN CARDIN Control Field Control Control Control Field Control Field Control Control <thcontrol< th=""> Contro Co</thcontrol<>	4	PIG	ITEM	3147	STOCK		PART		أسرا	IN
11 1 PAULZ 598-90-032-030 9500 MS1881-05 State (TAPING (NR.L	1	10	NO.	CODE	NUMBER	FECM	NUMBER	USABLE ON CODE	0/141	UNIT
11 1 1 2 5265 5265 54 1 11 2 6622 5265 5251 5265 54 1 11 2 6622 5255 1225 5267 54 1 11 2 6622 5255 1225 1225 121 5267 121 1										
31 1 74022 398-40-432-432 1000 15101-45 31 2 74022 990-91-131-632 1000 15101-15 11 3 M022 990-91-131-632 1000 15101-15 11 3 M022 990-91-131-632 1000 15101-15 11 3 M022 990-91-131-532 1200 1231550 12 3 M022 990-91-131-532 1200 1231550 14 1 1 1 1 1 14 1 1 1 1 1 14 1 1 1 1 1 14 1 1 1 1 1 15 1 1 1 1 1 15 1 1 1 1 1 15 1 1 1 1 1 15 1 1 1 1 1 15 1 1 1 1 1 16 1								GROUP 2210 IDENTIFICATION PLATES		
1 1									L. 1	
11 2 Matz		31	1	P4022	5305-00-432-4201	76706	A221861-42	SCREW, TAPPING, THREA	E A	6
31 3 MG22 MG324-137-3733 15287 12113530 PLATE, INSTRUCTION		34	2	84077	9995-01-132-6768	19201	12307000	PLATE . LOENTLEICATIO.	FA	
34 3 MG22 V005-01-131-3133 12210 12310350 PLATE,1KSTRUCTION			-							-
- <i>1</i> - <i>1</i> 7		31	3	PAOZZ	9905-01-137-3753	19207	12315558	PLATE, I NST NUCT 10N	EA	2
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(a) FIG	(b) ITEM	SMR	NATIONAL STOCK		PAPT			INC IN
NO	NO.	CODE	NUMBER	FSCM	NUMBER	USABLE ON CODE	0/14	UNIT
						GROUP 9501 BULK ITENS		
		PAFZZ	6145-00-705-6678	01349	H13486-1-7	WIRE ,ELECTRIGAL	FT	1
BULK		PADZŻ	5975-01-142-3145	19207	8374129	LOOM JI NSUL AT I NG.	PT	
BULK		PA077	4710-00-203-3172	19207	86.89208			
ALLA K		84077	4710-00-273-5529	19207	8649210	TIME		
Riss W		84077			ALL LATL THE COL	INCIN AT 1 M. E. CT		
				81349	CL 1,FORMU,CY1			
SULK		P MOL L	5330-01-140-2424	. 1760	21-00089	SE AL, RUBBER CHANNEL	FT	
BULK		PAOZZ		19207	12315658	SEAL,RUBBER,DOOR	FT	
BULK		PAOZZ		81348	RRC271, TY1, GRC,	' CHAIN	PT	
					014, 0.23			
BULK		PAOZZ		81348	RRC271, TY2, CL7, 0, 135	CHAIN	FI	
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						SECTION III. SPECIAL TOOLS		
						This section is not applicable.		
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	SECT LON IV	NAT IONAL	L STOCK NUMBER AND PART NUMBER INDEX		TM 9-2330-364-146P		
	STOCK NUMBER	F IGURE ND -	I TEM NO.	STOCK NUMBER	F LGUR E ND.	I TEM ND .	
À	5310-00-017-9721	22	8	5315-00-234-1664	22	5	
	5306-00-017-9722	22	10	5315-00-236-8353	26	16	
•	5315-00-018-6507	20	9	5315-00-236-8353	27	10	
	6240-00-019-0877	21	10	4730-03-244-9848	15	29	
	1670-00-020-4075	21	ž	5305-00-269-2803	15	26	
•	2530-00-021-2366	16	ĩ	5305-00-269-2833	15	44	
	2530-00-026-0265	17	14	5305-00-269-2803	16	4	
	5310-00-045-3299	1	17	5305-00-269-3214	24	3	
	5310-00-045-3299	7	19	5305-03-269-3217	23	11	
	4730-00-050-4203	26	37	5305-00-269-3245	15	22	
	4730-00-050-4203	21	37	2610-00-269-7383	19	2	
	5305-00-052-6878	26	24	4730-00-270-4616	15	7	
	5305-00-052-6878	21	24	2530-03-272-8106	11	6	
	5305-00-052-6921	1	2	5365-03-274-4544	13	3	
	5305-00-052-7492	15	3	2010-03-275-7995	19	1	
	2640-00-060-3550	19	•	5325-00-276-6040	15	12	
	5970-00-063-1495	8	ì	5325-00-276-6040	15	39	
	5970-00-063-1495	8	15	5325-00-276-6051	15	34	
	5305-00-068-0502	29	18	4710-03-277-5529	BJLK		
	4730-00-069-1186	15	15	2530-00-275-2243	14	1	
	4730-00-069-1186	15	35	5320-00-285-1025	22	14	
	4730-00-069-1187 4730-00-069-1187	15	28	4/30-00-289-005L 5335-00-380-007A	15	25	
	4730-00-069-1187	15	30	5310-03-298-8903	3	10	
	5305-00-071-1781	20	7	5310-00-359-0458	13	5	
	5305-00-071-1788	13	11	2530-00-359-1162	17	12	
	5305-00-071-2241	20	15	5306-00-383-4957	18	8	
	5305-00-071-2241	20	24	5310-00-393-6685	6	10	
	5305-00-071-2510	20	22	5310-00-393-6685	8	4	
	5310-00-080-6004	21		5310-00-393-6655 6940-00-393-4474	9	7	
	5310-00-080-6004	23	14	5310-03-407-9566	17	2	
	5310-00-081-4219	20	8	4730-00-419-9425	13	Ā	
	5305-00-082-6821	28	Ĩ	5305-00-432-4231	31	1	
	5310-00-087-4652	21	7	5305-00-432-4203	20	16	
	5310-00-087-4652	23	13	5305-00-432-4252	30	1	
	5310-00-087-4652	24	2	5305-00-432-4254	30	4	
	5310-00-087-4652	29	17	3520-00-463-3063 2530-00-457-1676	11	24	
	5310-00-088-1251	20	21	5315-00-461-3835	11	17	
	5310-00-088-1251	21	15	5330-00-462-0907		3	
	5330-00-090-2128	15	50	2530-00-493-8809	12	9	
	5365-00-090-5426	6	9	4710-03-511-1692	14	2	
	5365-00-090-5426	8	3	5365-00-516-7878	14	1	
	363-00-090-3426	9	4	5940-00-557-2343	6	5	
	3110-00-100-5951	17	3	5940-00-557-2343	Å	2	
	5305-00-115-9526		12	5940-00-557-2343	8	11	
	6220-00-134-9098	4	1	5940-00-557-2343	8	13	
	2530-00-142-6045	15	49	5940-00-557-2343	9	7	
	6240-00-143-3159	4	5	5310-00-559-0070	1	13	
		2	2	5330-00-562-1947	17	•	
	2530-00-162-1986	11	47	2330-00-562-1995	26	30	
	5325-00-174-9341	ŝ		5305-00-562-2742	27	30	
	6220-00-179-4324	Ă.	2	5935-00-572-9190	4	6	
	4730-00-187-7612	15	32	5310-00-576-5752	5	13	
	9905-00-202-3639	30	2	5325-00-579-6134	5	7	
	4710-00-203-3172	BULK		5310-00-582-5965	1	8	
	2750-00-204-3622	11	10	7310-00-782-7987 5310-00-582-5965	22	12	
	5310-00-209-0786	1	2	5310-00-582-5965	27	18	
	5310-00-209-0965	13	10	5310-00-582-5965	29	ii	
	5310-00-209-0965	18	5	5310-00-582-5965	29	20	
	2530-00-211-6129	18	•	5310-00-584-5272	22	2	
	5310-00-220-2665	17	5	5310-00-584-7888	11	9	
	7 507-00-227-3535 \$305-00-225- 1210	27 20	10	2790-00-758-1719 67 10-00-5855-0062	20	44	
	5305-00-225-3839	21	1	5310-00-595-0003	12		
	5305-00-225-3839	26	19	5310-00-596-7693	ī	5	
	5305-00-225-3839	21	19	6240-00-617-0991	-	Á	
	5305-00-225-3839	29	19	2530-00-624-0256	10	1	
	5310-00-225-6408	25	23	5310-00-637-9541	4	11	
	>>1U=UU=227=6993 6306=00=226=0404	20	5	3310-00-637-9541 6310-00-637-9541		2	
	5305-00-225-9981	20	5	5310-00-637-0541	15	91	
	2530-00-232-6020	11	ŝ	5310-00-637-9541	15	43	
		~ -	-	· · · · · · · · · · · · · · · · · · ·			

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STOCK NUMBER	F IGURE NO •	L TEM NG.	STOCK NUMBER	F LGUR E NO.	iten ND.
5310-00-637-9561	14	3	5310-00-809-5998	26	42 A
5310-00-637-9541	28	5	5310-00-809-5998	27	42
5310-00-656-0067	.!	8	5310-00-809-8533	25	12 🖤
2530-00-656-4895	11	•	7310-00-809-8733 2660-00-810-5861	28	2
5340-00-665-2212	26	25	5310-00-820-6653	15	48
5340-00-665-2212	21	25	5310-00-820-6653	23	5 🔺
4720-00-678-6125	15	31	5310-00-820-6653	24	
3110-00-689-8250	17	r 9	5365-00-823-4836	28	
5935-00-691-5591	'n	6	5310-00-823-8803	25	22
2530-00-692-6133	12	1	5310-00-823-8804	20	30
2530-00-693-1029	17	12	5310-00-633-6567 5315-00-842-3044		14
6145-00-705-6678	•	•	5935-00-846-3883	8	2
5365-00-717-5617	28	8	+820-00-849-1220	15	19
5305-00-719-5279	26	35	4730-00-554-6931 5305-00-655-0950	13	
5305-00-724-5910	23	2	5305-00-855-0964	2	3
5305-00-724-5910	24	4	5305-00-855-0964	3	2
5305-00-724-6772	11	22	5305-00-855-0964	5	1,7
5340-00-725-5268	5	5	5305-00-855-0964	15	11
5305-00-726-2551	25	26	5305-00-855-0964	15	37
5305-00-726-2555	25	4	5305-00-855-0965	26	27
4/30~00-/29-643/ 5310-00-/32-0558	13	2	7307-00-857-0970 5305-00-855-0970	15	21
5310-00-732-0558	24	8	5305-00-855-0973	21	11
5310-00-732-0558	28	6	6730-00-876-7387	13	12
5310-00-732-0559	12	3	5310-00-877-5797	1	24
5310-00-732-0559	15	20	5310-00-880-2004	17	13
5310-00-732-0559	15	42	5310-00-880-7745	18	6
5310-00-732-0560	26	39	5310-00-880-8189	13	9
5310-00-733-9239	27	5 7 8	9905-00-893-3570	9	2
2530-00-738-9061	17	16	2540-00-897-5917	28	7
2530-00-738-9620	17	15	5310-00-897-5940	u .	21
5315-00-740-9376 5315-00-740-9379	12	13	5340-00-901-8132	15	
5360-00-740-9382	12	1	4730-00-908-3193	14	· · · · · ·
5330-00-740-9550	17	10	5305-00-915-8067	22	3 🔻
2530-00-740-9553	17	11	2 5 30 - 00 - 9 20 - 7 56 8 5 9 9 9 - 00 - 9 26 - 3 1 6 6	11	7
3040-00-752-1156	22	15	5310-00-934-9757	i	16
2510-00-752-1157	22	6	5310-00-934-9757	5	20
2510-00-752-1160	22	4	5310-00-934-9758	5	12
5310-00-752-1650	17	6	5305-00-940-8069	25	9
9905-00-752-4649	6	11	5305-00-942-2196	21	10
9905-00-752-4649	7	3	5305-00-942-2196 5305-00-958-0671	28	4
9905-00-752-4649	8	10	5340-00-977-0815	15	23
9905-00-752-4649	9	6	5310-00-982-6810	28	3
2530-00-753-9308	14	8	5310-00-984-3806	20	9
2530-00-757-1718	18	1	5305-00-984-6194	5	18
5310-00-761-6882	22	13	5305-00-984-6195	Ĺ	18
5310-00-761-6882	29	12	5305-00-984-6212	5	14
5310-00-761-6882	29	21	5305-00-988-1727	20	28
5310-00-763-8901	25	27	5310-00-997-1888	ī	ġ
5310-00-763-8904	25	20	9905-00-999-7369	15	8
5310-00-743-6995	15	47	9905-00-999-7369 9905-01-099-7370	15	30
5310-00-763-8920	24	6	9905-00-999-7370	15	21
5340-00-764-7051	15	14	5305-01-010-2362	11	1
5310-00-768-0318 5975-00-771-6636	22	1	2530-01-031-4458	12	8
5935-00-771-6793	;	3	4010-01-032-2207	21	5
5935-00-773-1428	1	10	5360-01-036-8596	11	10
5310-00-797-9332	11	16	5360-01-037-1083	11	20
5340-00-809-1492	15	17	> > 10-01-040-7403 5320-01-049-8261	12	2
4720-00-809-2750	14	•	4710-01-049-8921	13	ī
5310-00-809-4058	20	10	4710-01-049-8922	13	6
7510-00-607-4058 5310-00-809-4048	20 21	20 16	2350-01-034-9929 5306-01-062-2336	18	
5310-00-809-4058	26	45	2540-01-068-4746	7	; 🚣
5310-00-809-5998	20	•	4010-01-074-5029	22	11

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	STOCK I	NUMBER	F IGURE NO .	L JEN NO.	STOCK NUMBER	FIGURE NO-	ITEM ND.
	5340-01	1-083-552	7 15	24	5306-01-139-1835	25	10
	5340-01	1-087-692	20	6	5340-01-139-1836	26	36
7	2530-01 5306-01	1-092-644 1-098-719		23	3340-01-139-1836 2590-01-139-1865	27	30 1
	5310-0	1-098-723	6 25	17	2510-01-139-9678	25	ī
	5310-0	1-098-124	6 25	16	2540-01-139-9679	26	14
	2590-0	1-098-724 1-100-900	1 25	28	5320-01-139-9774	26	14
	2510-0	1-100-921	25	14	5320-01-139-9774	27	ī
	2510-0	1-100-921	1 25	24	5330-01-140-2424	BULK	•
	2520-0	1-101-093	17 27 11 25	19	2510-01-140-8207	22	9
	2520-0	1-101-255	9 25	3	2590-01-140-8208	15	1
	2510-0	1-101-289	25	29	6220-01-140-8247	2	1
	2530-0	1-110-432		2	2590-01-141-0876	7	5
	2530-0	1-119-183	8 17	8	5935-01-141-0877	7	4
	2590-0	1-124-928	18 29	2		8	12
	2590-0	1-137-335	ig 26	28	5340-01-141-0884	20	10
	2510-0	1-137-336	0 26	29	5220-01-141-0908	3	1
	2510-0	L-137-336		32	3040-01-141-0912	26	21
	2510-0	1-137-336	3 26	38	2510-01-141-5297	25	7
	2510-0	1-137-336	4 26	40	2510-01-141-5301	25	6
	2510-0	1-137-336	5 27	28	4730-01-141-9268	15	6
	2510-0	1-137-336	1 21 1 21	32	2540-01-142-2636	28	2
	2510-0	1-137-336	8 27	33	2540-01-142-2829	26	3
	2510-0	1-137-336	9 21	38	2540-01-142-2829	27	3
	2510-0	1-137-379	i 21		5905-01-143-5161		20
	5340-0	1-137-381	.8 20	13	4720-01-143-6992	13	8
	5340-0	1-137-381 1-137-381	8 <u>21</u>	13	5305-01-144-7386	24	9
	5340-0	1-137-381	9 24		5340-01-145-1650	26	17
	5365-0	1-137-388	6 26	11	5340-01-145-1650	27	17
	5365-0	1-137-388 1-137-388	16 27 17 26	11	2 530 - 01 - 1 45 - 68 19 2 510 - 01 - 1 45 - 68 23	17	8 20
	5365-0	1-137-388	7 27	12	2510-01-145-6824	26	20
	5365-0	1-137-388	8 26	13	5340-01-145-6829	20	29
	5365-0	L-137-388 1-137-388		13	2 540 -01 -1 45 -625 3 5975-01 -1 47 -145 2	21	17
	5365-0	1-137-388	9 27	15	5975-01-147-1453	Ś	21
	2510-0	1-137-626	5 26	26	5975-01-147-2429	5	2
	2510-0	1-137-626 1-137-626		26	5975-01-147-2430 5975-01-147-2431	5	5
	5340-0	1-137-936	7 26	22	5940-01-147-3415		6
	5340-0	1-137-936	7 27	22	5940-01-147-3415	8	14
	5330-0	1-137-957 1-137-957	18 20 18 27	0 6	5340-01-150-1027	21	15
	4730-0	1-138-090	7 15	9	5365-01-150-6277	25	10
	6110-0	1-138-386	9 1	6	2590-01-150-8355	29	17
	2590-0	1 - 1 38 - 399 1 - 1 38 - 399	13 23 14 23	3	5320-01-150-9681 5320-01-150-9681	29	0 7
	2590-0	1-138-400	2 24	i	2540-01-152-1056	26	Ť
	2590-0	1-138-400	3 24	1	2540-01-152-1056	27	7
	5310-01	1-138-704 1-138-704	0 20 0 27	5	5325-01-152-2378	20	23
	5340-0	1-138-719	3 26	4	5340-01-152-4717	20	1
	5340-01	L-138-715	3 27	4	2540-01-152-8800	20	33
	5120-02	1-138-719	17 23 18 24	10	2540-01-152-8882	20	8
	2510-0	1-138-915	8 25	25			
				FIGURE LITEM			FIGURE ITEN
	FSCM	PART NUM		NO. NO.	FSUM PART NUMBER		NU. NO.
	98410	-175	-66	5 6	76706 MS15570-1271 96906 MS15570-89		4 5
	98410	8-175		8 14	96906 MS18154-113		22 3
	63477 74410	FC14764	A	12 7	76906 MS18154-58 96906 MS18154-59		4 12
•	74410	JS-S-009	8	23 1	76906 MS18154-60		21 10
	81349	MIL-1-63	ITYPF, GRC, CL1, FORMU, CY1	21 3	96906 MS18154-60		28 4
	81349	MIL 1631,	TYP, GRC, CL 1, FORMU, CY1	BULK	96906 MS19081-112 96906 MS21044M12		17 7
	94904	MS 15001-	1	26 37	96906 MS21044N3		1 24
J	96906	MS 15001-	·1	27 31	96906 MS21333-100		15 38





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		FIGURE	I TE M		
FSCA	PART NUNGER	NO.	NO.	FSCM	PART NJ MBER
	ME 21 222-48		14	34984	MC 3 64 34
70700	NG 21 333-07 MG 21 333-76	6	14	96906	MS35434-11
96906	NS 21 333-76	Ś		96906	MS35436-11
96906	HS 21334-24	Ś	5	96906	MS35436-11
96906	MS 21334-26	15	10	76906	MS35436-11
96906	NS24627-54	26	24	96906	MS35436-11
96906	NS24627-54	27	24	76906	MS35478-1073
76906	NS 24620-36	20	30	96906	M535489-101
96906	ND 24028-30 MS 244 20-12		30	96906	N3337407-107
96906	NS 24629-24	21	- 11	76906	MS35489-91
96906	NS24629-36	1		96906	M535490-80
96906	MS 24629-38	26	27	96906	NS35490-80
96906	MS 24629-38	27	27	96906	MS35649-202
96906	MS 24629-48	2	3	96906	MS35649-202
78708	R5 24 629-48	5	2	90900	M337849-2272
70700	H3 24627-90 H5 24420-48	7	17	70700 38986	HS33047-202
94906	NS 24629-48	15	ii	96906	MS35671-52
96906	MS 24629-48	15	37	96906	MS35671-52
96906	NS24629-57	1	2	96906	MS35743-76
96906	MS 24629-61	15	3	96906	MS35746-1
96906	NS 24629-78	26	47	96906	M535748-1
96906	RS 2466 5-283	11	14	96906	MS35/82-5
94904	N3 2460 7-309 N5 2444 5-304	20	16	96906	MS3092-12 MS30170-5
96906	RS 24665-495	22	5	96906	MS39179-5
96906	NS 27148-2	- 4	Í	96906	MS3 91 79-6
96906	MS27148-3	7	7	76906	MS 3 9 1 82 - 3
96906	MS27183-10	20	18	96906	MS39182-3
96906	MS 27183-10	20	20	96 906	M539182-3
96906	MS 27 183-10 MS 27183-10	21	10	96906	M539182-8
96906	HS 27183-12	20		96906	HS51375-1
96906	#\$27183-14	21	ä	96906	MS51377-1
96906	MS 27183-14	23	12	96906	MS51861-45
96906	MS 27183-14	24	14	96906	MS51861-47
96906	MS 27183-18	20	4	96906	MS51861-66
96906	MS 27183-18	26	42	96906	MS51861-69
96906	R5 27 183-18	27	42	96906 01 001	MS51922-1
94904	M327103-21 M527103-23	27	12	96906	MS51922-1
96906	NS 27 183-23	28	2	96906	MS51922-17
96706	MS 27183-9	20	30	96906	MS51922-17
96906	MS 27 756	21	2	96 906	MS51922-17
96906	MS35140-10	5	9	96906	MS51922-17
96906	MS 35206-243	1	12	76906	MS51922-33
76706	RS 35206-248	7	10	90 900	MS51032-63
94404	NJ JJ200-241 NS 15206-265	i i	14	96 900	#\$\$1922-93
96906	NS 35206-267	20	28	96906	MS51925-6
96906	MS 35 206-283	1	1	96906	MS51946-1
96906	M\$ 35207-274	1	23	96906	MS51946-2
96906	MS 3 53 33 - 36	1	13	96906	MS51967-11
96906	NS 35333-39		13	96906	MS51967-14
78708	NG 35 333-92 NG 25 236-21	12		70 700	M371707-2
94904	MS 3 5 3 3 5 - 3 3	:	í	96906	HS51967-2
96906	NS35330-42	ī	17	96906	MS51967-20
96906	MS35338-42	5	19	96906	MS51967-20
96906	MS 3 5 3 3 8 - 4 4	1	8	96906	MS51967-8
96906	NS35338-44	22	12	96906	MS51967-8
96906	MS 35 338-44	26	18	96 906	MS51967-8
96906	M235339-99 M235138-66	29	11	90900	MS51968-11
94986	AS 35338-44	29	20	76906	MS51968-14
96906	NS 35338-45	17	2	96 906	MS51968-20
96906	MS 3 5338-44		11	96906	MS51968-21
96906	NS 35338-46	11	2	96906	MS51968-23
76906	R535338-46	14	6	96906	M551968-23
70700	7337 330-790	15	21	707U0	7371765~5 MS51964_4
70700	NS 1933-44	15	77	70700 969ña	H\$51968-R
96904	NS35338-46	28	5	96906	M\$51968-8
96906	MS 35 330-47	13	10	96906	M551983-3
96906	M\$35330-47	10	5	96906	M\$51983-4
96906	MS 35338-48	22	2	96906	MS52125-1
96906	N\$35338-51	11	9	96906	MS521301A20412
78706	FD 37307~1 HS 36 36 3-3	30	2	.90900	H375UU9-Z
79799		50	ć	70700	



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				FIGURE	1 1 E M			FIGUEF	I TEM
	FSCM	PART NUMBER		NG.	NO.	FSCN	PART NUMBER	NO.	NO.
ì						10.949			
1	94904	MS 53007-1		15	27	19207	11639519-Z	:	5 0
	96906	NS 53007-2		15	30	19207	11639535		ź
	96906	MS 53068-1		17	12	19207	11646228	26	43
	96906	NS 53068-2		17	12	19207	11646228	27	43
	76906	RS90725-10		20	15	19207	11646228	29	26
	96906	MS90725-128		20		19207	11662833	11	23
Ţ	96906	MS 90 725-162		23	Ż	19207	11663025	11	10
	96906	MS90725-162		24	4	19207	11663231	12	8
	96906	AS90725-31		17	1	19207	11663232	11	11
	96906	HS90725-30		29	10	19207	11663236	11	19
	96906	MS90725-6		29	18	19207	11665741	ii ii	12
	96906	MS 90 725-64		24	3	19207	11668361	15	49
	96906	1590725-67		23	11	19207	11684305	20	33
	96906	HS90725-8		20	20	19207	11684622	29	10
	96906	MS 90 725-8		26	19	19207	11684636	13	8
	96906	MS 90 725-8		27	19	19207	11684673-1	29	2
	96906	MS90725-8		29	19	19207	12307731	26	1
	78706	MS90726-139		11	22	19207	12307731	27	'
	96906	MS90726-60		15	44	19207	12307790	20	29
	96906	MS90726-60		16	4	19207	12307880	31	2
	96906	MS90727-129		26	35	19207	12307932-1	5	21
	96906	MS90727-129		27	35	19207	12307932-2	5	15
	96906	MS90727-168		25	20	19207	12307932-4	, , , , , , , , , , , , , , , , , , ,	
	96906	MS90727-186		28	i	19207	12307932-6	5	- 4
	9 6906	MS 90 72 7-197		25	9	19207	12307932-7	5	
	96906	MS 90727-67		24	13	19207	12307932-7	5	2
	96906	AS 90 727-74		17	22	19207	12308039	29	17
	96906	MS90728-87		13	Ĩ	19207	12308149	21	9
	81349	M13486-1-7				19207	12308151-23	29	24
	81349	M23053/1-103-	-0	8	7	19207	12308151-24	20	35
λ	81349	A23053/1-103	-0	8	15	19207	12308151-56	29	23
	81348	M43436/1-1		7		19207	12315281	27	26
'	81348	#43436/1-1		ė	5	19207	12315303	24	-1
	81348	M43436/1-1		8	10	19207	12315306	23	4
	81348	M43436/1-1		9	6	19207	12315307	23	3
	81348	M43430/1-3			2	19207	12315343	23	1
	19220	N4790-50		26	22	19207	12315396	21	ĩ
	19220	H4790-50		27	22	19207	12315420	20	1
	81348	RR-C-271, TYO	2, CL 7.135	23	10	19207	12315434	20	25
	81348	RRC 271. TV1. G	2, UL 7, 0, 137 BC - Cl A, 0, 25	29	11	19207	12315466-1	20	32
	81348	RRC271, TY2, CI	7.0.135	21	12	19207	12315466-1	27	15
	81348	RRC2718172,CI	17.0.135	20	14	19207	12315466-2	26	12
	81349	Ru22V5R7		1	22	19207	12315466-2	27	12
	81349	RM Z Z V JR O		1	21	19207	12315477	26	17
	11815	SSPV-86		27	i	19207	12315478-1	26	13
	74410	V-90-3		23	9	19207	12315478-1	27	13
	74410	V-90-3		24	10	19207	12315478-2	26	11
	81348	22-1-550/GP2/	/9.00-20/TR 15C W/DNC	E 19	2	19207	12315478-2	27	11
	8 18 34	01-4663-23	3/3.UU-2U/2/18 M	2	i	19207	12315484-2	26	20
	81834	01-4663-33		ž	ĩ	1 92 0 7	12315485	26	21
	19220	1-2525-50R		26	14	19207	12315485	27	21
	19220	1-2525-50R		27	14	19207	12315493	1	3
	19220	1-2525-52		20	23	19207	12315496	1	1
	9 29 6 7	10049-00		25	25	19207	12315497	i	1ī
	92967	10054-00		25	6	19207	12315505	1	19
	92967	10060-01		25	13	19207	12315508	•	1
	98343	1046260F		15	d 1	19207	12315510	74	. 9
1	98343	10462605		15	6	19207	12315512	21	í
,	92967	10608-00		25	29	19207	12315541	20	27
	92967	10712-00		25	24	19207	12315558	31	3
	19207	10882200		28	34	19207	12313379	Z3 24	50
	19207	10896695		17	6	19207	12315567	26	2
	19207	10896720		17	_5	19207	12315567	27	2
Į –	19207	10896748		11	24	19207	12315569	26	3
	14501	10244341		28	8	14501	12313394	21	و

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NATIONAL STOCK NUMBER AND PART NUMBER INDEX

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FSCN	PART NUMBER	F I GURE ND.	L TE M NO.	FSCM	PART NJHBER	FIGURE NO.	I TEM NO .
19207	12315611-1	20	13	19207	7389621	17	14
19207	12315611-1	21	13	19207	7409323	11	•
19207	12315011-2	23	8	19207	7409376 7409394	12	7
19207	12315630-1	27	38	19207	7409553	17	- 11
19207	12315630-2	27	29	19207	7411078	15	18
19207	12315630-3	27	32	19207	7411079	15	24
19207	12315630-5	26	38	19207	7412079	13	2
19207	12315630-6	26	29	19207	7413486	11	6
19207	12315630-7	26	32	19207	7418892	22	8
19207	12315634	20 26	34	19207	7521157	22	6
19207	12315634	27	34	19207	7521159	22	11
19 20 7	12315644-3	29	6	19207	7521160	22	4
19207	12312044-3	29	12	19207	7521163 7539308	22	7
19207	12315646	ĩ	5	19207	7716634	6	ě
19207	12315647	7	1	19207	7716793	9	3
19207	12315648	8	20	19207	7722333	6	9
19207	12315656-1	26	33	19207	7722333	9	4
19207	12315656-2	27	33	19207	7723309	6	10
19207	12315656-3	26	28	19207	7723309	8	1
19207	12313630-4	27 But K	28	19207	//23309 7731428	9	2
19207	12315658	26	41	19207	7739666	22	iq
19 20 7	12315658	27	41	19207	7745464	13	4
19207	12315660	20	17	98343	782		4
19207	12315674	20 26	8	19207	7979315	18	4
19207	12315674	27	8	1 92 0 7	7979330	11	13
19207	12315688	29	9	19207	7979332	11	16
19207	12315706-1	29	23	19207	/ ¥/ ¥334 7979339	12	19
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19207	12315709	2929	5	19207	7979349	17	10
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19207	12315729	29	ī	19207	8332086	14	ī
19207	12315731	29	22	19207	8332557	12	1
19207	12315740		13	19207	0330707 8338566	5	
98343	1512-0-64	1	14	19207	8338567	4	` ī
78500	1759E5	11	17	19207	8338569	6	2
21450	193065	2 B 14 K	2	19207	8338770	0 77	3
0 7 700	21-00089	26	31	92967	836-00	25	17
07700	21-00089	27	31	19207	8365426	14	2
12603	23E10	15	48	92967	837-00	25	16
12603	23E10	24	5	19207	8376129	15	2
12603	23EL0	25	21	19207	8376208	8	2
19220	2525-55	26	10	19207	8376667	11	1
13445	30056-15	21	15	07700	84-18A	20	6
13548	40222R	3	1	92967	850-01	25	1
19220	4300	26	25	92967	859-00	25	5
19220	9300 5156653	27	25	19207	5559205 8689208	5ULK	13
19207	5167878	14	ì	19207	8689208	15	40
19207	5168136	13	12	19207	8689210	BULK	
19207	5214930	13	5	19207	8689210	15	33
19207	5228623	15	29	19207	8710736	. 20	7
19207	5282725	12	6	19207	8710740	17	8
19207	5298653	13	3	19207	8710741	17	8
19220	7029-0 5424-8	26	•	19207	8710743	18	2
19220	5631-18	26	Š	19207	8710744	17	3
19220	5631-18	27	5	19207	8710746	10	1
60038	393A592A 5985-50	17	9	19207	8724258 8724495	6	7
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		NUe	FJUN	PART NUMBER	NU •	NU .
19207 8758259	11	5	92967	895-00	25	28
19207 8758316	12	9	92967	898-00	25	19
19207 8758357	11	3	13548	94926	1	9
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92967 891-00	25	15	92967	9640-00	25	3
92967 893-01	25	8	92967	9934-02	25	14

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APPENDIX G

ILLUSTRATED LIST OF MANUFACTURED ITEMS

INTRODUCTION

1

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

A part number index in numerical order is provided for crossreferencing the part number of the item to be fabricated to the figure which covers fabrication criteria.

Bulk materials needed for the manufacture of an item are listed by part number in the following tabular listing.

Part number of item	Part number and NSN of bulk material	Figure no.	Required number of feet
12315496	M13486-1-7 6145-00-705-6678	G-3	140
12315508	M13486-1-7 6145-00-705-6678	G-4	207
12315509	M13486-1-7 6145-00-705-6678	G-2	96
1231 5647	M13486-1-7 6145-00-705-6678	G-1	4
12315648	M13486-1-7 6145-00-705-6678	G-5	7
12315658	12315658		39
21-00089	21-00089 5330-01-140-2424		39
8376129	8376129		20
8689208	8689208 4710-00-203-3172		72
8689210	8689210 4710-00-277-5529		4

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WIRING DIAGRAM





TA 245555

G-2

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Figure G-3. Wiring harness 12315496.

TA 245556

G-3

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Figure G-4. Wiring harness 12315508.

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Figure G-5. Wiring harness 12315648.



TA 245558

G-5

1. BINDING: (USE A OR B)

A. CABLES SHALL BE BOUND TOGETHER WITH ONE HALF OVER-LAPPING TURNS OF TAPE, THICKNESS .010, WIDTH $3/4 \pm 1/4$, COLOR BLACK, SPEC HH-1-595, OR TAPE, TYPE EF-9, WIDTH $3/4 \pm 1/4$, COLOR BLACK, SPEC MIL-1-15126, OR

B. CABLES SHALL BE BOUND TOGETHER WITH ONE-HALF OVER-LAPPING TURNS OF INSULATION, TYPE A OR TYPE F. FORM TS, GRADE A, CLASS 1, THICKNESS .008, WIDTH $3/4 \pm 1/4$, COLOR BLACK, SPEC MIL-1-631. INSULATION MUST BE WRAPPED IN ACCORDANCE WITH BEST COMMERCIAL PRACTICE AND ENDS MUST BE SECURED TO PREVENT UNRAVELING.

2. CRI MP:

CRIMP PIN CONTACTS (FERRULES), TERMINALS AND SPLICING CONNECTORS TO CABLES (CONDUCTORS AND/OR INSULATION) TO MEET PERFORMANCE REQUIREMENTS OF SPEC MIL-T-13513.

NOTE: DO NOT DISTORT SKIRTS OF PIN CONTACTS (MS27148) When crimping to conductors.

3. SOLDER:

SOLDER CONDUCTORS TO PIN AND SOCKET CONTACTS AND (SOLDER-TYPE) TERMINALS AND TERMINAL ASSEMBLIES IN ACCORDANCE WITH REQUIREMENT 5 OF SPEC MIL-STD-454.

4. SPLICE:

SPLICED CONDUCTORS MUST MEET REQUIREMENTS OF SPEC MIL-T-13513 FOR PERFORMANCE.

SPLICED CONDUCTORS MUST BE ADEQUATELY INSULATED AND THE INSULATION MUST BE SEALED TO EACH CABLE'S INSULATION.

COMPLETED SPLICES MUST MEET THE REQUIREMENTS OF SPEC MIL-C-13486 FOR THE FOLLOWING PHYSICAL PROPERTIES: HIGH VOLTAGE TO GROUND (HIGH POTENTIAL), FUNGUS RESISTANCE, RESISTANCE TO OIL ABSORPTION, RESISTANCE TO IMMERSION IN LIQUIDS, FLAMMABILITY, RESISTANCE TO OZONE, HIGH TEMPERATURE RESISTANCE.

THE FOLLOWING SUGGESTED METHODS FOR INSULATING SPLICED CONDUCTORS HAVE DEMONSTRATED THEIR ABILITY TO MEET THE ABOVE REQUIREMENTS:

METHOD 1. — VULCANIZE, USING RUBBER, SYNTHETIC, GRADE SC 515 OR SC 615, A1, B1, C1, F1, SPEC MIL-R-3065. THICKNESS OF RUBBER OVER EXPOSED CONDUCTORS SHALL BE 1/8 TO 5/32 AND IS TO OVERLAP ADJACENT INSULATION FOR A DISTANCE OF AT LEAST 3/16 AND A MINIMUM THICKNESS OF 1/32 OR AS SPECIFIED ON DRAWING.

METHOD 2. — INSULATE, USING HEAT-SHRINKABLE, PREMOLDED SPLICE COVERS, TRANSITIONS AND BOOT CONFIGURATIONS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMEND-ATIONS.

APPROVED SOURCE: RAYCLAD TUBES, INC, REDWOOD CITY, CALIE

ALL SOURCES MUST COMPLY WITH THE PHYSICAL AND FUNCTIONAL REQUIREMENTS OF THE MANUFACTURER'S ITEM INDICATED. ARMY ENGINEERING APPROVAL IS REQUIRED.

5. PLUG ALL SPARE GROMMET HOLES WITH ROD OF DIAMETER AND LENGTH AS REQUIRED.

Figure G-6. Wiring harness assembly instructions.



APPENDIX H

TORQUE LIMITS

H-1. General

This appendix lists the torque limits used on Semitrailer, Van: Electronic, XM1006.

H-2. Torque Limits

The applicable torque limits are listed in table H-1.

	Maximum Torque Dry	Maximum Torque Lube
Suspension System		
Trunnion U-bolt nuts	880 lb-ft (1193.3 Nm)	660 lb-ft (895 Nm)
Axle U-bolt nuts	300 lb-ft (406.8 Nm)	220 lb-ft (298.3 Nm)
End cap nuts	180 lb-ft 244 Nm)	130 lb-ft (176.3 Nm)
Landing Gear Leveling Jack		
Attaching nuts	173 lb-ft (234.6 Nm)	123 lb-ft (166.8 Nm)
Wheel nuts	450-500 lb (610.2-678	o-ft 8 Nm)

Table H-1. Torque limits

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	\sim			RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS
$\overline{7}$	5-1			SOMETHING WRONG WITH THIS PUBLICATION?
			THEN DOPE A FORM, C OUT, FO IN THE	JOT DOWN THE BOUT IT ON THIS CAREFULLY TEAR IT MAIL'
PUBLICA				PUBLICATION DATE PUBLICATION TITLE
TM 9-	2330-3	64-148	P	Date of TM 4.5 Ton, 4 Wheel, XM1006
DE EXAC	CT. PIN-F	POINT WHE	LAE IT IS	IN THIS SPACE TELL WHAT IS WRONG
NO	GRAPH	NO	NO	AND WHAT SHOULD BE DONE ABOUT IT:
400		183		Change illustration Reason: Tube end shown assembled on wrong side of lever cam.
512		191		Figure 191, item 3 has the wrong NSN. Supply rejects orders for this item. The NSN shown here is not listed in the AMDF or the MCRL.
				Please give us the correct NSN and P/N.
				SAMPLE
	WE GRADE	OR TITLE		
John	Smith,	SGT		\mathbf{x}
A	My 202	28-2	PR AR	EVIOUS EDITIONS PSIF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR E OBSOLETE. RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADOLLAPTERE

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U.S. Army Tank Automotive Command Attn: DRSTA-MB Warren, Michigan 48090

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		\$\	DOPE A FORM. OU'T. FO IN THE	BOUT IT ON THIS TAREFULLY TEAR I.D IT AND DROP MAIL!		I SENT
TH S	11 7 ATION NU)-2330-	<u>)</u> - MOER 364-14	۶P	PUBLICAT	ION DATE	PUBLICATION TITLE Semitrailer, Van: Electronic, 4.5 Ton, 4 Wheel, XM1006
EXAC	T PIN-I		TABLE	IN THIS SPACE TELL AND WHAT SHOULD	WHAT IS WRO	NG DUT IT:
10.	GRAPH	NO.	ND.			
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By Order of the Secretary of the Army:

JOHN A. WICKHAM, JR. General, United States Army Chief of Staff

Official:

ROBERT M. JOYCE Major General, United States Army The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-32 requirements for Pershing Missile System.

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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

WEIGHTS

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

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
- I Sq Meter=10,000 Sq Centimeters=10.76 Sq Feet I Sq Kilometer=1,000,000 Sq Meters=0.386 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

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INCHES F

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TEMPERATURE

- 5.9 (°F 32) =⁰C 212⁰ Fahrenheit is equivalent to 100⁰ Celsius 90⁰ Fahrenheit is equivalent to 32.2⁰ Celsius 32⁰ Fahrenheit is equivalent to 0⁰ Celsius 9/5 C⁰ + 32= F⁰

APPROXIMATE CONVERSION FACTORS		
TO CHANGE	TO MULTIPLY BY	1
Inches	. Centimeters 2.540	
Feet	. Meters 0.305	
Yards	. Meters 0.914	12
Miles	. Kilometers 1.609	
Square Inches	. Square Centimeters 6.451	
Square Feet	. Square Meters 0.093	0
Square Yards	. Square Meters 0.836	
Square Miles	. Square Kilometers 2.590	
Acres	. Square Hectometers 0.405	
Cubic Feet.	. Cubic Meters 0.028	12
Cubic Yards	. Cubic Meters 0.765	
Fluid Ounces	Milliliters	
Pints	liters	9
Quarts	liters 0.946	17
Gallons	liters 3 785	
	Grams 28 340	
Bounds		0
Shart Tong	Motrie Tene 0.007	1
Short lons	. Metric lons 0.907	
Pound-reet	. Newton-meters 1.350	
Pounds per Square Inch.	. Kilopascals 6.895	۳ I
Miles per Gallon	. Kilometers per Liter 0.425	
Miles per Hour	. Kilometers per Hour 1.609	
TO CHANGE	TO MULTIPLY BY	
Continutons	Inches 0.394	
Meters	. Inches 0.394	v
Meters		
Meters		
Kilometers	. Miles 0.021	
Square Centimeters	. Square Inches 0.155	_ _ "
Square Meters	. Square Feet 10.764	
Square Meters	. Square Yards 1.196	
Square Kilometers	. Square Miles 0.386	
Square Hectometers	. Acres 2.471	
Cubic Meters	. Cubic Feet	
Cubic Meters	. Cubic Yards 1.308	-
Milliliters	. Fluid Ounces 0.034	٦ ا
Liters	. Pints 2.113	
Liters.	. Quarts 1.057	
liters	Gallons 0.264	0
Grams	Ounces	
Kilograme	Pounds 2 205	2
Matric Tone	Short Tons 1 102	
Neutro Matana	Bound-Foot 0 729	1-
Newton-Meters	Bounds non Source Inch 0 145	
KIIOPASCAIS	Miles per Caller 2 254	
Kilometers per Liter	. miles per Gallon 2.354	
Vilomotors nor Hours	Niles per Hour (1621	





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