

TM 9-2330-359-14&P

TECHNICAL MANUAL

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

FOR

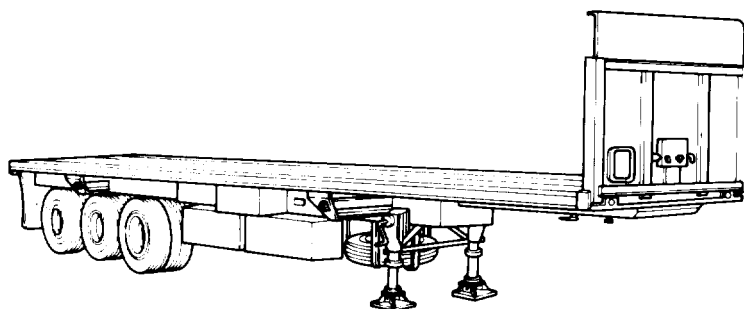
SEMITRAILER, FLATBED: BREAKBULK/CONTAINER
TRANSPORTER, 34 TON

M872 (THEURER GREENVILLE CORP.
AND SOUTHWEST TRUCK BODY CO.)
(NSN 2330-01-039-8095)

M872A1 (THEURER GREENVILLE CORP.
AND HELLER CORP.)
(NSN 2330-01-109-8006)

M872A2 (THEURER GREENVILLE CORP.
AND HELLER CORP.)
(NSN 2330-01-119-5837)

M872A3 (SOUTHWEST TRUCK BODY CO.)
(NSN 2330-01-142-1385)



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This manual supersedes TM 9-2330-359-14&P, dated 30 June 1978, and all changes.

Approved for public release: distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

AUGUST 1991

FOR INFORMATION ON FIRST AID, REFER TO FM 21-11.

WARNING

AIR PRESSURE

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

WARNING

ASBESTOS HAZARD

DO NOT handle brakeshoes, brakedrums, or other brake components unless area has been properly cleaned. There may be asbestos dust on these components which can be dangerous if you touch it or breathe it. Wear an approved filter mask and gloves. Never use compressed air or a dry brush to clean brake components. Dust may be removed using an industrial-type vacuum cleaner. Clean dust or mud away from brake components with water and a wet, soft brush or cloth. Failure to follow this warning may result in serious illness or death to personnel.

WARNING

COMPRESSED AIR

Compressed air used for cleaning or drying purposes, or for clearing restrictions, should never exceed 30 psi (207 kPa). Wear protective clothing (goggles/shield, gloves, etc.) and use caution to avoid injury to personnel.

WARNING

COUPLING AND UNCOUPLING SEMITRAILER

All personnel must stand clear of towing vehicle and semitrailer during coupling and uncoupling operations. Failure to follow this warning may result in serious injury or death to personnel.

WARNING

DRY CLEANING SOLVENT

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100° F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

WARNING

ELECTRICAL SYSTEM

When troubleshooting an electrical malfunction or performing electrical maintenance, ALWAYS disconnect towing vehicle electrical connector from towing vehicle. Failure to do so may result in serious injury or death to personnel due to electric shock.

WARNING

SECURING SEMITRAILER

If semitrailer is not coupled to towing vehicle, ensure that wheels are securely chocked. Failure to do so may cause semitrailer to roll, resulting in injury to personnel or damage to equipment.

WARNING

TOWING SPEEDS

DO NOT tow semitrailer at speeds exceeding the following. Failure to follow this warning may result in injury to personnel or damage to equipment.

Highway 55 mi/h (88 km/h)

Dirt/Gravel 20 mi/h (32 km/h)

Off-road 10mi/h(16 km/h)

CHANGE
NO. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 26 July 1993

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4-49 and 4-50
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4-83 and 4-84
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4-107 and 4-108

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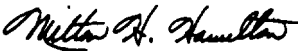
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General, United States Army
Chief of Staff

Official:


MILTON H. HAMILTON
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Secretary of the Army
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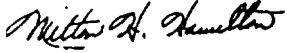
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GORDON R. SULLIVAN
General, United States Army
Chief of Staff

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*Administrative Assistant to the
Secretary of the Army*

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Distribution:

To be distributed in accordance with DA Form 12-39-E (Block 0792), Operator and Unit,
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TECHNICAL MANUAL

TM 9-2330-359-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D. C., 9 August 1991

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT
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Current as of 21 May 1993

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know, Mail your letter, DA Form 2028 (Recommended Changes to *Publications* and Blank Forms), or DA Form 2028-2, located in the back of this manual, direct to: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000, A reply will be furnished to you.

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* This manual supersedes TM 9-2330-359-14&P, dated 30 June 1978, and all changes.

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CHAPTER 1 INTRODUCTION

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1-1. SCOPE.

a. This manual describes the operation and unit, direct support, and general support maintenance, including repair parts and special tools lists for:

- Semitrailer, Flatbed, Breakbulk/Container Transpotier: 34 Ton, M872 (Theurer and Southwest).
- Semitrailer, Flatbed, Breakbulk/Container Transporter: 34 Ton, M872A1 (Theurer and Heller).
- Semitrailer, Flatbed, Breakbulk/Container Transporter: 34 Ton, M872A2 (Theurer and Heller).
- Semitrailer, Flatbed, Breakbulk/Container Transporter: 34 Ton, M872A3 (Southwest).

b. Throughout the manual, the terms “curbside” and “roadside” are used to describe views of the semitrailers. As viewed from the rear, curbside is the right side and the roadside is the left side.

c. Manufacturer differences within individual model designations will be recognized by manufacturer name as they occur.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, The Army Maintenance Management System (TAMMS).

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 OR SHIPMENT.

For information on preparing the semitrailer for storage or shipment, refer to Chapter 4, Section XII.

1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRS).

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. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at: Commander, U.S. Tank-Automotive Command, ATTN: AMSTA-MP, Warren, MI 48397-5000. We will send you a reply.

Section II. EQUIPMENT DESCRIPTION AND DATA

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1-6. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

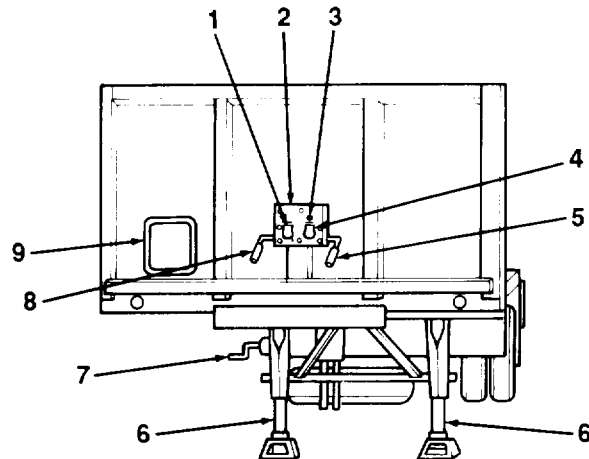
a. The M872 Series Flatbed Semitrailers are cargo hauling semitrailers designed to carry containerized or breakbulk cargo.

b. The semitrailers are designed to be towed by the M915 Series 6 x 4 Truck Tractors, or with a reduced load combined payload and trailer weight of 37,500 lb (17,010 kg) by the M818 Truck Tractor.

c. The semitrailers are equipped with:

- (1) A 12-volt electrical system capable of operating in standard or blackout modes.
- (2) Automatic emergency braking in the event of semitrailer breakaway from the towing vehicle.
- (3) Landing gear to provide support for the front of semitrailer when uncoupled from towing vehicle.
- (4) Three axles with dual-mounted wheels and leaf spring suspension, including walking beams and radius rods, to absorb road shock.
- (5) Internal expanding type brakes which are activated by air pressure received from the towing vehicle.
- (6) Four retractable sling mechanisms to permit slinging when empty or when loaded with a 40ft (12.2m) container.
- (7) Twist lock fasteners to secure containers to semitrailer loadbed.
- (8) Removable side and rear racks for use when transporting bulk cargo.
- (9) Toolbox to provide storage for load binders and load-securing hardware and tools.

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

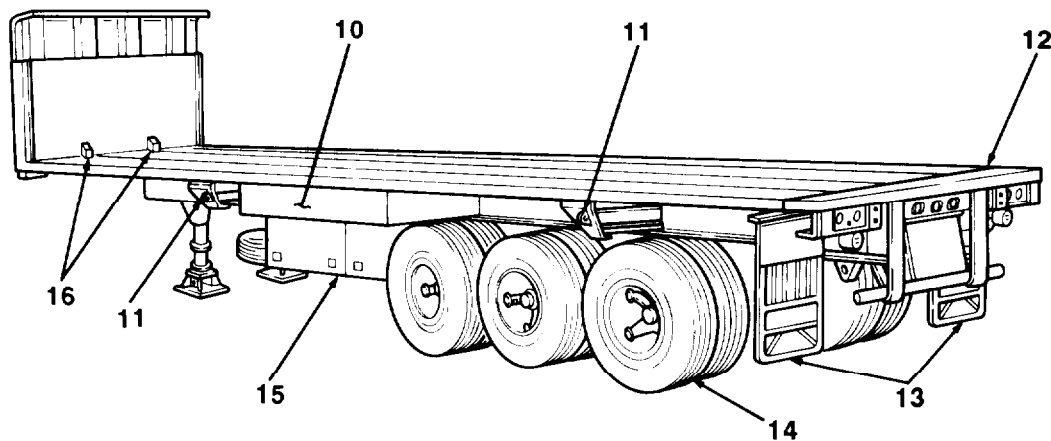


M879A2 SHOWN

Key	Component	Description
1	12-volt Electrical Receptacle (All Except M872A1)	Connects semitrailer 12-volt electrical system to towing vehicle.
1	24-volt Electrical Receptacle (M872A1)	Connects towing vehicle 24-volt electrical system, with voltage reduction, to semitrailer 12-volt electrical system.
2	Nose Box	Contains light circuits and electrical and air connectors.
3	Switch (All Except M872)	Activates semitrailer emergency flashers.
4	24-volt Electrical Receptacle (All Except M872A1)	Connects towing vehicle 24-volt electrical system, with voltage reduction, to semitrailer 12-volt electrical system.
4	12-volt Electrical Receptacle (M872A1)	Connects semitrailer 12-volt electrical system to towing vehicle,
5	Emergency Air Coupling	Connects to towing vehicle to provide emergency air supply.
6	Landing Legs	Support front of semitrailer when uncoupled from towing vehicle.
7	Handcrank	Operates landing gear legs.
8	Service Air Coupling	Connects to towing vehicle to provide service air supply.
9	Pamphlet Box	Provides stowage for semitrailer technical manual.

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1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (Con't).

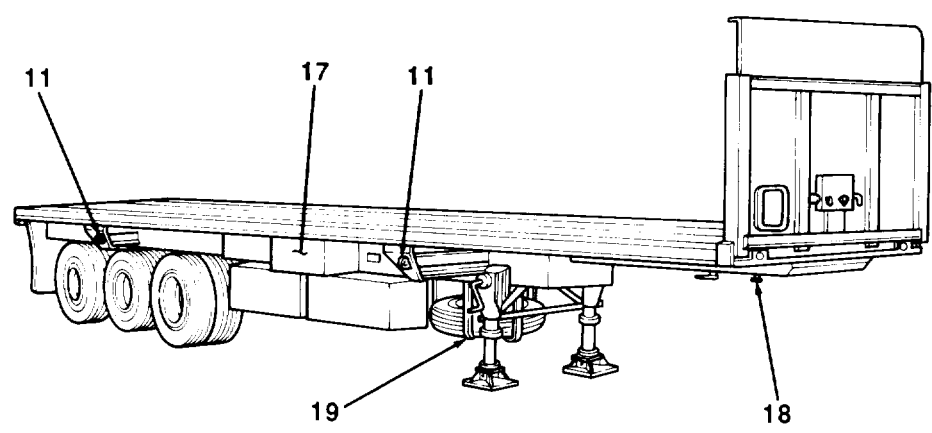


M872A3 SHOWN

Key	Component	Description
10	Tarpaulin and Bow Stowage Box	Provides stowage for tarpaulin and bows.
11	Sling Provisions	Used for sling handling of semitrailer when empty or when loaded with a 40 ft (12.2 m) container.
12	Twist Lock Fasteners	Secure container to semitrailer loadbed.
13	Mudflaps	Protect semitrailer, and vehicles traveling behind, from thrown-off dirt or stones.
14	Dual Wheels	Two wheels at end of each axle to support semitrailer load.
15	Side Rack Stowage Compartment	Provides stowage for side racks.
16	Guide Ramps	Used to position container on loadbed in relation to securing points

TA507975

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (Con't).



M872A3 SHOWN

Key	Component	Description
17	Toolbox	Provides stowage for load binders and load-securing hardware and tools.
18	Kingpin	Used to couple semitrailer to towing vehicle fifth wheel.
19	Spare Tire Carrier	Provides stowage for spare tire.
11	Sling Provisions	Used for sling handling of semitrailer when empty or when loaded with a 40 ft (12.2 m) container.

TA507976

1-8. LOCATION AND CONTENTS OF DATA PLATES.

The following illustrations show the location and contents of all semitrailer data plates:

a. M872.

NOTE

Data plates on M872 manufactured by Southwest are located on the siderail above side rack stowage compartments.

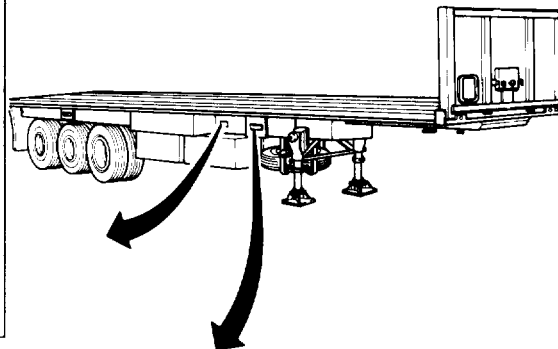
LUBRICATION CHART					
SEMITRAILER, FLATBED: BREAKBULK/CONTAINER TRANSPORTER, 34 TON, M872					
INTERVALS ARE BASED ON NORMAL OPERATION. RELUBRICATE AFTER WASHING OR FORDING. LUBRICATE BOTH SIDES OF EQUIPMENT.					
INTERVAL	REF NO	IDENTIFICATION	SERVICE	LUBRICANT	NO OF SERVICE POINTS
Q	1	KING PIN AND INCLIP PLATE	APPLY TO CONTACT AREAS	G.A.A.	1
M	2	L.G. LOWER EXPOSED LEGS	EXTENDING, CLEAN, AND COAT	P.L.	2
M	3	LANDING GEAR FOOT PADS	LUBRICATE WEAR POINTS	P.L.	2
M	4	SLIDING EYE LATCHES	LUBRICATE WEAR POINTS	P.L.	2
M	5	STORAGE BOX HINGERS	LUBRICATE WEAR POINTS	O.E.	4
M	6	CAMSHAFT BEARINGS	LUBRICATE	G.A.A.	8
M	7	CAMSHAFT BUSHINGS	LUBRICATE	G.A.A.	8
SA	8	BRAKE ANCHOR PIN IN DRUM	LUBRICATE	G.A.A.	8
M	9	PAIDLOCKS	CLEAN, LUBRICATE	O.E.	8
M	10	SLACK ADJUSTERS	LUBRICATE	G.A.A.	8
A	11	WHEEL BRINGS INNER & OUTER	REMOVE, CLEAN, DRY, REBRAC	G.A.A. 2-130	12
Q	12	SLIDING EYE POCKETS	LUBRICATE CONTACT AREAS	G.A.A.	4
M	13	REMOVABLE CONTAINER LOCKS	LUBRICATE CONTACT AREAS	O.E.	4
M	14	L.G. CRANK HANDLE	LUBRICATE WEAR POINTS	O.E.	4
M	15	RETRACTABLE CONTAINER LOCK HOUSING	LUBRICATE FITTING (LUBRICATE LIGHTLY, UNITS VISIBLE IN REG.)	G.A.A.	4

M = MONTHLY
 Q = QUARTERLY
 SA = SEMI ANNUALLY
 A = ANNUALLY

SPECIFICATIONS: OIL, GREASE, SOLVENT, ANTI-SEIZURE, OPERATION. MIL-L-3104, MIL-G-12824, FED-STD-158, TM 9-207.

WARNING: SOLVENT, FOD, AND OIL TOXIC. KEEP OFF SKIN, EYES AND CLOTHES. DO NOT BREATHE THE FUMES. USE CHEMICAL GOGGLES AND HAVE GOOD VENTILATION.

LUBRICANT DATA
 LUBRICANT: DE OIL LUBRICATING ENGINE, PL OIL LUBE PRESERVATIVE, DE MOLYCOTE DRY SPRAY, GAA GREASE AUTOMOTIVE AND ARTILLERY.
 TEMPERATURES: ABOVE +121°F, ABOVE +140°F TO +171°F, DE 10W, DE 5W, PL SPECIAL, PL SPECIAL, DS, DS, DS, GAA.

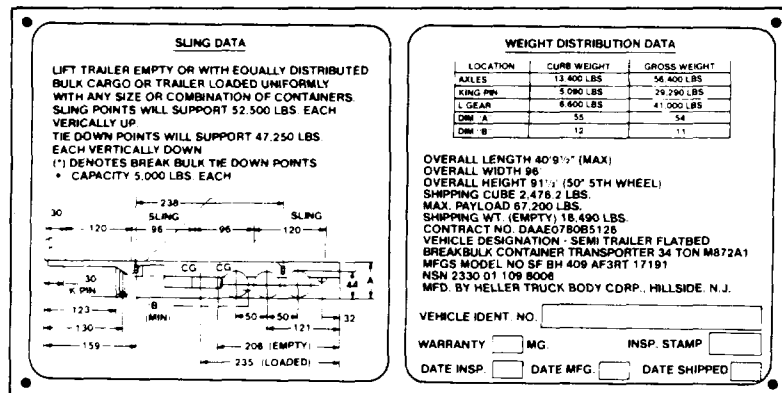
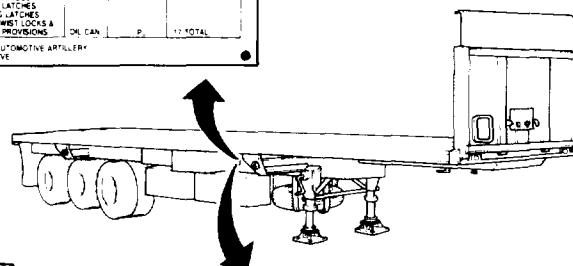
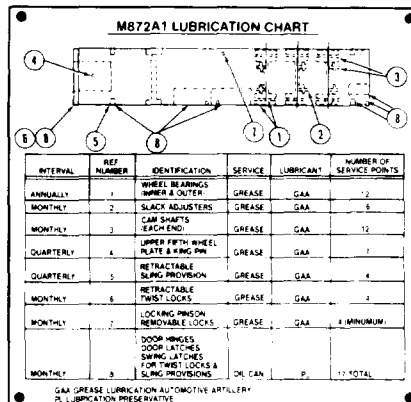
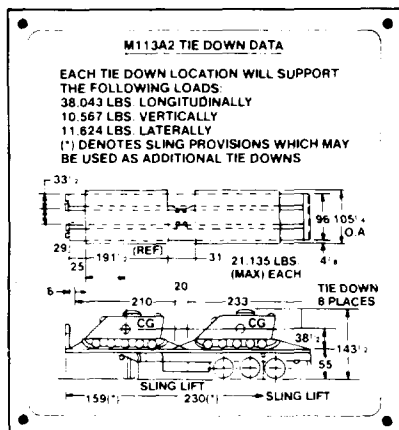


SLING DATA		WEIGHT DISTRIBUTION DATA																			
LIFT TRAILER EMPTY OR WITH EQUALLY DISTRIBUTED BULK CARGO OR TRAILER LOADED UNIFORMLY WITH ANY SIZE OR COMBINATION OF CONTAINERS. SLING POINTS WILL SUPPORT 52,500 LBS. EACH VERTICALLY UP. TIE DOWN POINTS WILL SUPPORT 47,250 LBS. EACH VERTICALLY DOWN. (1) DENOTES BREAK BULK TIE DOWN POINTS (CAPACITY 15,000 LBS. EACH)		OVERALL LENGTH 40' 9 1/2" OVERALL WIDTH 96" OVERALL HEIGHT 106" + 1" (49" 5TH WHEEL) SHIPPING CUBE 2,882.8 LBS. MAX. PAYLOAD 67,200 LBS. SHIPPING WT. (EMPTY) 18,800 LBS. CONTRACT NO. - DAAE07-76-8-4457 VEHICLE DESIGNATION - SEMI TRAILER FLATBED BREAKBULK CONTAINER TRANSPORTER, 34 TON, M872 MFGS MODEL NO. - SFBH 489 AF3RT 18851 NSN 2330 01 039 8095 MFD. BY THEURER GREENVILLE CORP., GREENVILLE, MISS.																			
		<table border="1"> <thead> <tr> <th>LOCATION</th> <th>CURB WEIGHT</th> <th>GROSS WEIGHT</th> </tr> </thead> <tbody> <tr> <td>AXLES</td> <td></td> <td>58,400 LBS.</td> </tr> <tr> <td>KING PIN</td> <td>3,960 LBS.</td> <td>27,600 LBS.</td> </tr> <tr> <td>L GEAR</td> <td>5,630 LBS.</td> <td>33,742 LBS.</td> </tr> <tr> <td>DIM "A"</td> <td>58"</td> <td>57 1/2"</td> </tr> <tr> <td>DIM "B"</td> <td>12 1/4"</td> <td>11 1/2"</td> </tr> </tbody> </table>		LOCATION	CURB WEIGHT	GROSS WEIGHT	AXLES		58,400 LBS.	KING PIN	3,960 LBS.	27,600 LBS.	L GEAR	5,630 LBS.	33,742 LBS.	DIM "A"	58"	57 1/2"	DIM "B"	12 1/4"	11 1/2"
LOCATION	CURB WEIGHT	GROSS WEIGHT																			
AXLES		58,400 LBS.																			
KING PIN	3,960 LBS.	27,600 LBS.																			
L GEAR	5,630 LBS.	33,742 LBS.																			
DIM "A"	58"	57 1/2"																			
DIM "B"	12 1/4"	11 1/2"																			
VEHICLE IDENT. NO. _____ WARRANTY <input type="checkbox"/> MG. INSP. STAMP <input type="checkbox"/> DATE INSP. <input type="checkbox"/> DATE MFG. <input type="checkbox"/> DATE SHIPPED <input type="checkbox"/>																					

TA507977

1-8. LOCATION AND CONTENTS OF DATA PLATES (Con't).

b. M872A1 (HELLER).



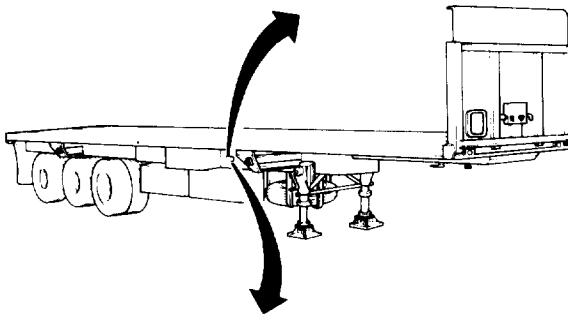
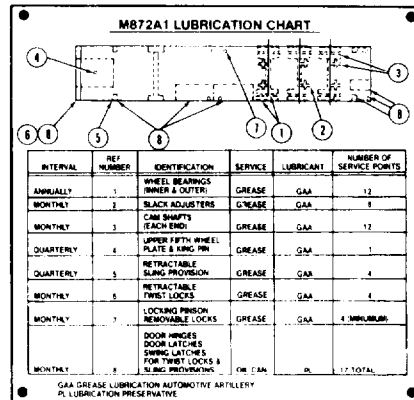
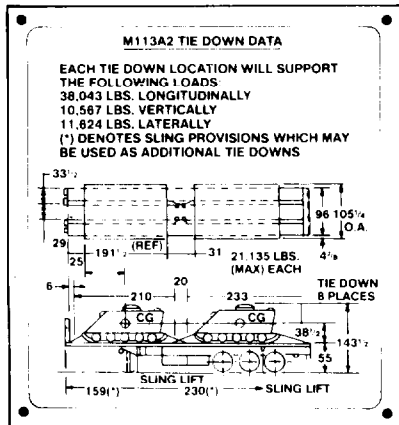
WARRANTY STATEMENT

HELLER TRUCK BODY WARRANTS THAT THIS VEHICLE WILL BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF (15) FIFTEEN MONTHS FROM DATE OF ACCEPTANCE. NOTIFICATION OF CLAIMS MUST BE MADE TO HELLER TRUCK BODY AS SOON AS A DEFECT HAS BEEN DISCOVERED. HELLER AT NO COST TO THE GOVERNMENT WILL REPLACE WITH NEW PARTS ANY DEFECTIVE PART COVERED BY THIS WARRANTY. IDENTIFY BY HELLER SERIAL NUMBER.

HELLER TRUCK BODY CORP.
 291-923-9200

1-8. LOCATION AND CONTENTS OF DATA PLATES (Con't).

c. M872A1 (THEURER).



WARRANTY STATEMENT

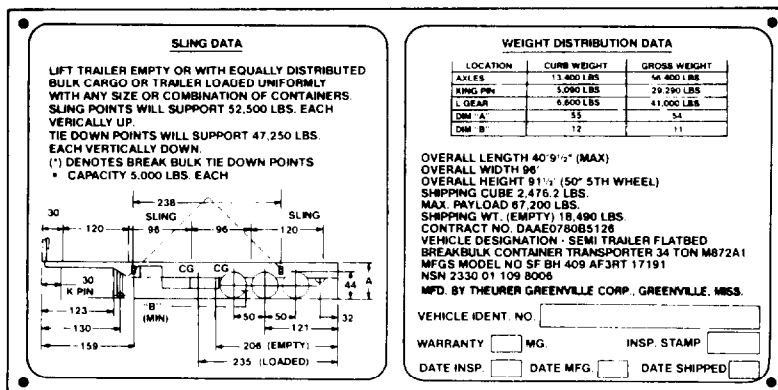
THIS VEHICLE UNDER WARRANTY FOR 15 MONTHS (PLUS AGREED DEPOT STORAGE) FROM ACCEPTANCE DATE AS REGARDS DEFECTS IN MATERIAL AND WORKMANSHIP.

DEFECTIVE PARTS WILL BE REPLACED WITHOUT FOB PLANT OR ORIGINAL CONUS DESTINATION. RETURN OF DEFECTIVE PARTS REQUIRED UNLESS WAIVED. WARRANTY REIMBURSEMENT CONUS BASED ON CONTRACTOR'S PREVAILING RATES AND FLAT RATE TIME SCHEDULE. OUTSIDE CONUS RATE \$9.05 PER HOUR. CONTRACTOR REQUIRES NOTIFICATION OF WARRANTY CLAIMS IN ADVANCE OF CORRECTION.

IDENTIFY BY THEURER SERIAL NUMBER.

THEURER GREENVILLE CORP
601-335-5231 TELEX 522334

THEURER ATLANTIC INC.
201-242-2111 TELEX 138648

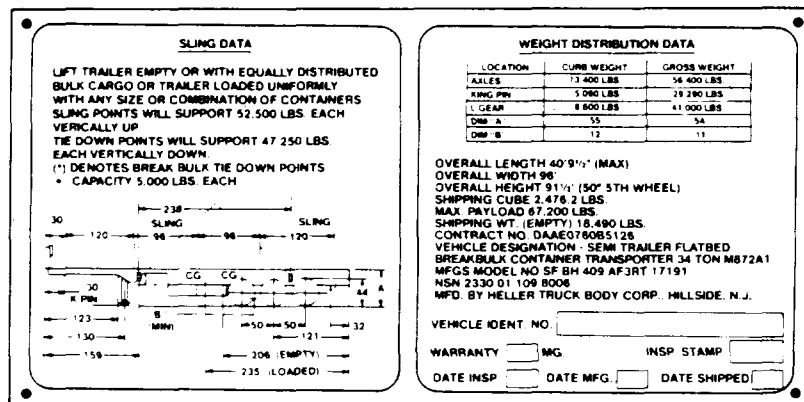
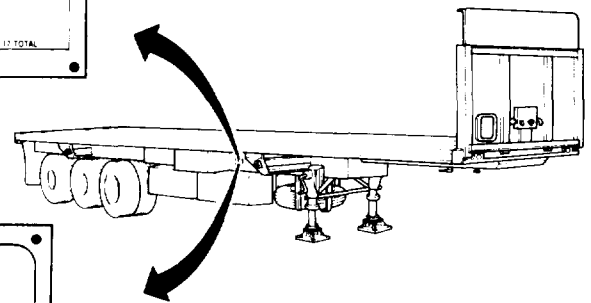
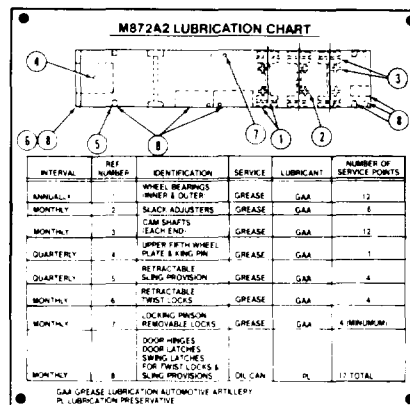
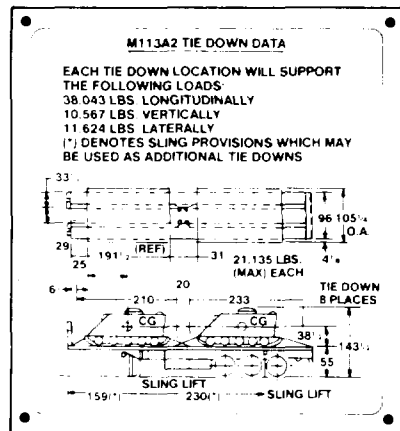


1-8. LOCATION AND CONTENTS OF DATA PLATES (Con't).

d. M872A2.

NOTE

Data plate locations on M872A2 manufactured by Theurer and Heller are the same. Heller is illustrated.

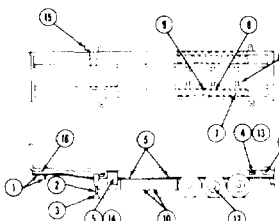


TA507980

1-8. LOCATION AND CONTENTS OF DATA PLATES (Cont't)

e. **M872A3.**

LUBRICATION CHART					
SEMITRAILER, FLATBED: BREAKBULK/CONTAINER TRANSPORTER, 34 TON, M872A3					
INTERVALS ARE BASED ON NORMAL OPERATION. RELUBRICATE AFTER WASHING OR FORDING. LUBRICATE BOTH SIDES OF EQUIPMENT.					
INTERVAL	REF NO.	IDENTIFICATION	SERVICE	LUBRICANT	NO OF SERVICE POINTS
D	1	KNOW PIN AND PICKUP PLATE	APPLY TO CONTACT AREAS	G.A.A.	4
M	2	L.G. LOWER HORNED LEGS	EXTEND, CLEAN AND COAT	P.L.	2
M	4	LANDING GEAR FOOT	LUBRICATE WEAR POINTS	P.L.	2
M	4	SLIDING EYE LATCHES	LUBRICATE WEAR POINTS	O.E.	2
M	5	STORAGE BOX HINGES	LUBRICATE WEAR POINTS	O.E.	4
M	5	CAMSHAFT BEARINGS	LUBRICATE	G.A.A.	4
M	5	CAMSHAFT BEARINGS	LUBRICATE	G.A.A.	4
M	5	WHEEL ROLLERS IN DRUM	LUBRICATE WEAR POINTS	P.L.	4
SA	9	BRAKE ANCHOR PIN IN DRUM	LUBRICATE	G.A.A.	4
SA	9	INDUCERS	CLEAN, LUBRICATE	O.E.	4
M	11	SLACK ADJUSTERS	LUBRICATE	G.A.A.	4
M	11	WHEEL SLACK ADJ. & OUTER	REMOVE, CLEAN, OIL, REWASH	G.A.A. & J-130	4
D	13	SLIDING LATCH POCKETS	LUBRICATE CONTACT AREAS	G.A.A.	4
M	13	REMOVABLE CONTACT POINTS	LUBRICATE CONTACT AREAS	O.E.	4
M	16	CATAPULT HORNED LEGS	LUBRICATE CONTACT AREAS	O.E.	4
M	16	RETRACTABLE CONTAINER LOCK HOUSING	LUBRICATE LATCHING UNIT, (VISIBLE IN HDG.)	G.A.A.	4



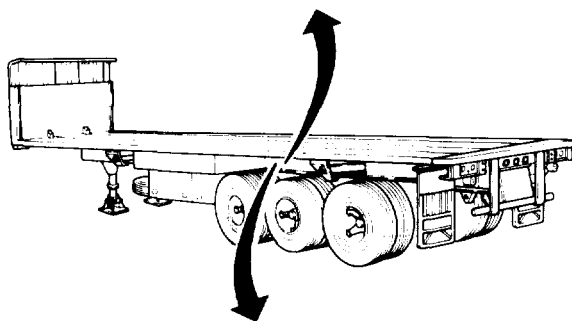
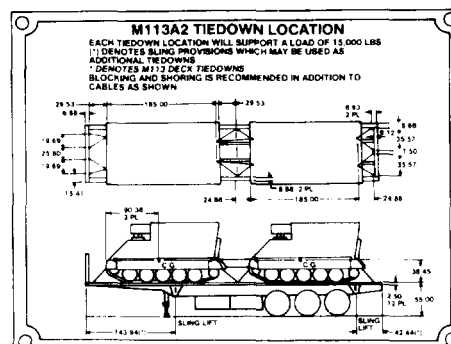
LUBRICANT DATA				
LUBRICANT	TEMPERATURES			
	ABOVE +32°F +60°F TO 10°F	10°F TO 0°F	0°F TO -15°F	-15°F TO -65°F
DL OIL LUBRICATING ENGINE	DL 30	DL 10W	DL 5W	DL 5W
PL OIL LUBE PRESERVATIVE	PL MEDIUM	PL SPECIAL	PL SPECIAL	PL SPECIAL
DS MOLYCOATE DRY SPRAY	DS	DS	DS	DS
GAA GREASE AUTOMOTIVE AND AERIAL	GAA	GAA	GAA	GAA

WARNING:

SOLVENT FEO IS HIGHLY TOXIC. KEEP OFF SKIN, EYES AND CLOTHES.

DO NOT BREATHE THE VAPORS. USE CHEMICAL GOGGLES AND HAVE GOOD VENTILATION.

SPECIFICATIONS: OIL GRADE: MIL-1-2104
 SOLVENT: MIL-8782
 ADDITIVE: FED-9-B-800
 OPERATOR: TM 9-207



RUSTPROOFING PER MIL-C-46164
MFG. BY QUAKER STATE OIL CO.

PROCESSED DATE 4/86

SOUTHWEST MOBILE SYSTEMS CORP.

SEMITRAILER, FLATBED: BREAKBULK/CONTAINER TRANSPORTER, 34 TON, M872A3

492.26
OVERALL LENGTH
96.00 OVERALL WIDTH

144

67 44 45 78 74 101 55 40.6 96.00

CG

49.44

25 9 10.5
MINIMUM
GROUND
CLEARANCE
(LOADED)

132 LG

50 50 123.25 19.5

B

▼ = BREAKBULK CARGO TIEDOWN POINTS
CAPACITY = 5,000 LBS. EACH.

▲ = LIFT POINTS

LIFTING DATA

ALL CARGO IN EITHER BULK OR CONTAINER MODE MUST BE EVENLY DISTRIBUTED ON TRAILER WHEN LIFTING WITH LIFTING EYES SLUNG THROUGH A CONTAINER CAN ONLY BE DONE WHEN TRAILER IS LOADED WITH A 40 FT. CONTAINER. LIFTING CAPACITY OF EACH LIFT EYE IS 53,000 LBS.

TIEDOWN DATA

EACH TIEDOWN MAY BE USED FOR BOTH LONGITUDINAL AND LATERAL RESTRAINT. BEST TRAINING CAPACITY OF EACH TIEDOWN IS 48,000 LBS. VERTICALLY DOWN.

LOCATION	EMPTY	LOADED
AXLES	11,815 LBS.	84,832 LBS.
LANDING GEAR	7,945 LBS.	42,328 LBS.
KING PIN		29,418 LBS.
DIM A	55.00 IN.	94.00 IN.
DIM B	218.50 IN.	238.50 IN.
SHIPPING CUBE		7.448 CU. FT.
MAXIMUM PAYLOAD		87,200 LBS.
SHIPPING WEIGHT (EMPTY)		19,760 LBS.

M872A3

MODEL NO. NEN 2330-01 142 195

CONTRACT NO. DAMEO7-81-C 5270

VEHICLE REG NO.

MFD BY: SOUTHWEST MOBILE SYSTEMS CORP.
ST. LOUIS, MO.

INSPECTION STAMP

INSPECTION DATE

1-9. DIFFERENCES BETWEEN MODELS.

a. The M872A1 is lower in height than the M872 and M872A2, and is capable of hauling two MI 13-type armored personnel carriers and missile-type ammunition as necessary.

b. The M872A2 has a special horizontal kingpin saddle added under the tapered gooseneck; the M872A2 cannot clear 13.2 ft (4 m) underpasses with 8 1/2 ft (2.6 m) containers.

c. The M872A3 has a different suspension, axle, brake system, and landing gear assembly.

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1-10. EQUIPMENT DATA.

Dimensions (Overall):	
Height:	
To Top of Front Panel (Empty):	
M872, M872A2	108 in. (274 cm)
M872A1, M872A3	103 in. (262 cm)
To Top of Semitrailer Bed (Empty):	
M872, M872A2	58 in. (147 cm)
M872A1, M872A3	55 in. (140 cm)
Length:	
Overall	40 ³ / ₄ ft (12.4 m)
Semitrailer Bed	40 ft (12 m)
Width:	
Overall	96 in. (244 cm)
Semitrailer Bed	96 in. (244 cm)
Weights:	
Empty	16,800 lbs (7,627 kg)
Payload Maximum:	
Primary Roads	67,200 lbs (30,509 kg)
improved Secondary Roads.....	67,200 lbs (30,509 kg)
Ground Clearance:	
Frame	39 in. (99 cm)
Axle	12 in. (30 cm)
Electrical System:	
Lamps	12-volt
Clearance Lights	Sealed Unit
Identification Lights	Sealed Unit
Taillights (Military) (Stop, Turn and Blackout Stop, Turn and Taillight)	Sealed Unit
Taillights (Commercial) (Stop)	Sealed Unit
Tires:	
Size	10.00 x 20
Inflation:	
Highway	75 psi (517 kPa)
Cross-country	55 psi (379 kPa)
Sand and Mud	25 psi (172 kPa)
Wheels	20 in. (50.8 cm)
	5-Spoke, Cast
Rims	20 x 7.5-FL Type
Suspension:	
All Except M872A3:	
Manufacturer	Lear Seigler Inc., Muskegon, Michigan
Type	3 Axles
Model Number	TR-8600-5

1-10. EQUIPMENT DATA (Cont't)

Suspension (Con't):	
M872A3:	
Manufacturer	Hutchens industries. Inc., Springfield, Missouri
Type	3 Axles
Model Number	11455-00
Axles:	
All Except M872A3:	
Manufacturer	Dana Corp., Montgomery, Alabama
Model Number	K21AX503-10
Capacity	20,000 lbs (9,080 kg)
M872A3:	
Manufacturer	Rockwell International, Troy, Michigan
Model Number	2TK4670P21
Capacity	20,000 lbs (9,080 kg)
Brakes:	
Manufacturer	Commercial Standard
Type	Drum, 20 x 16 $\frac{1}{2}$ x 7
Actuator	Cam, Air-actuated
Operating Pressure	100 psi (690 kPa)
Landing Gear:	
Type	Telescopic, Manual, Handcrank Gearbox
Capacity	60,000 lbs (27,240 kg)
Kingpin Location:	
From Front of Semitrailer	30 in. (76 cm)
To Center of Landing Gear Pad..	130 in. (330 cm)
Torque Data:	
Hub-to-Drum	190-210 lb.-ft. (258-285 N•m)
Spider Bolt	100-120 lb.-ft. (136-163 N•m)
Wheel Rim Nuts	200-225 lb.-ft. (271-305 N•m)
Outer Wheel Bearing Nut	200-225 lb.-ft. (271 -305 N•m)
Inner Wheel Bearing Nut	50 lb.-ft. (68 N•m) and Back Off $\frac{1}{4}$ Turn
Towing Information:	
Towing Facility	SAE Standard 2 in. Kingpin
Towing Vehicle	M915 Series Truck Tractor or M818 with Reduced Load

1-10. EQUIPMENT DATA (Con't).

Towing Information (Con't):

Towing Speed:

Highway	55 mi/h (89 km/h)
Dirt/Gravel Roads	20 mi/h (32 km/h)
Off-road	10 mi/h (16 km/h)

CHAPTER 2
OPERATING INSTRUCTIONS

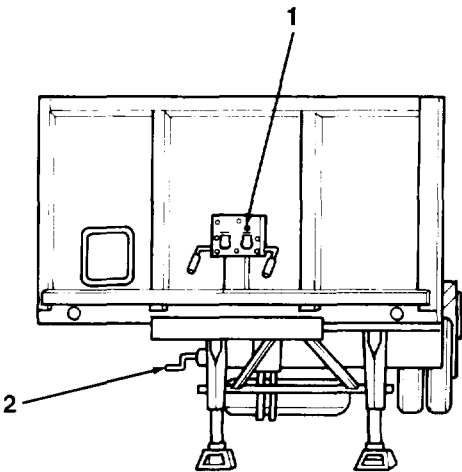
Section I. DESCRIPTION AND USE OF OPERATOR'S
CONTROLS AND INDICATORS

Paragraph Title	Page Number
Controls and indicators	2-1
General	2-1

2-1. GENERAL.

This section shows the location and function of all semitrailer controls and indicators. Review this section thoroughly before operating the semitrailer.

2-2. CONTROLS AND INDICATORS.



Key	Control or Indicator	Description
1	Switch (All Except M872)	Activates semitrailer emergency flashers.
2	Handcrank	Operates landing gear legs.

TA507982

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

Paragraph Title	Page Number
General	2-2
General PMCS Procedures	2-2
Leakage Definitions	2-3
Operator/Crew Preventive Maintenance Checks and Services (PMCS), Table 2-1	2-4
Reporting Repairs	2-2
Service Intervals	2-2
Specific PMCS Procedures	2-3

2-3. GENERAL.

a. To ensure that the M872 Series Flatbed Semitrailers are ready for operation at all times, they must be inspected on a regular basis so that defects may be found before they result unserious damage, equipment failure, or injury to personnel. This section contains systematic instructions on inspections, adjustments, and corrections to be performed by the operator/crew.

b. While performing PMCS, read and follow all safety instructions found in the Warning Summary at the front of this manual. Keep in mind all WARNINGS and CAUTIONS.

2-4. SERVICE INTERVALS.

Perform PMCS, found in Table 2-1, at the following intervals:

- (1) Perform *Before* (B) PMCS just before operating the semitrailer.
- (2) Perform *During* (D) PMCS while operating the semitrailer.
- (3) Perform *After* (A) PMCS tight after operating the semitrailer.
- (4) Perform *Weekly* (W) PMCS once each week.
- (5) Perform *Monthly* (M) PMCS once each month.

2-5. REPORTING REPAIRS.

All defects which the operator cannot fix must be reported on a DA Form 2404, Equipment Inspection and Maintenance Worksheet, immediately after completing PMCS. If a serious problem is found, IMMEDIATELY report it to your supervisor.

2-6. GENERAL PMCS PROCEDURES.

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

a. Keep equipment clean. Dirt, oil, and debris may cover up a serious problem. Clean as you work and as needed. Use dry cleaning solvent (Item 6, Appendix E) on all metal surfaces. Use soap (Item 5, Appendix E) and water on rubber, plastic, and painted surfaces.

2-6. GENERAL PMCS PROCEDURES (Con't).

b. While performing specific PMCS procedures, inspect the following components:

(1) **Bolts, Nuts, and Screws.** Ensure that they are not loose, missing, bent, or broken. Report loose or missing bolts, nuts, and screws to organizational maintenance.

(2) **Welds.** Inspect for gaps where parts are welded together. Check for loose or chipped paint, rust, and cracks. Report bad welds to organizational maintenance.

(3) **Electric Conduit, Wires, and Connectors.** Inspect for cracked or broken conduit insulation, bare wires, and loose or broken connectors. Report loose connections and faulty wiring to organizational maintenance.

(4) **Hoses, Lines, and Fittings.** Inspect for wear, damage, and leaks. Ensure that clamps and fittings are tight. Report any damage, leaks, or loose fittings and clamps to organizational maintenance.

c. Check that components are adequately lubricated in accordance with Chapter 3, Section 1.

2-7. SPECIFIC PMCS PROCEDURES.

a. Operator/Crew PMCS are provided in Table 2-1. Always perform PMCS in the order listed. Once it becomes a habit, anything that is not right can be spotted in a minute.

b. Before performing PMCS, read all the checks required for the applicable interval and prepare all the tools needed. Have several clean rags (Item 11, Appendix E) handy. Perform ALL inspections at the applicable interval.

c. If anything wrong is discovered through PMCS, perform the appropriate troubleshooting task in Chapter 3, Section II. If any component or system is not serviceable, or if a given service does not correct the problem, notify your supervisor.

d. The columns in Table 2-1 are defined as follows:

(1) **Item No.** Provides a logical sequence for PMCS to be performed and is used as a source of item number for the "TM ITEM NO" column when recording PMCS results on DA Form 2404.

(2) **Interval.** Specifies the interval at which PMCS is to be performed.

(3) **Item To Be Inspected.** Lists the system and common name of items that are to be inspected. Included in this column are specific servicing, inspection, replacement, or adjustment procedures to be followed.

NOTE

The terms "ready/available" and "mission-capable" refer to the same status: Equipment is on hand and is able to perform its combat mission (AR 700-138).

(4) **Equipment Is Not Ready/Available If.** Explains when and why the semitrailer cannot be used.

2-8. LEAKAGE DEFINITIONS.

a. It is important to know how fluid leakage affects the status of the semitrailer. Following are types/classes of leakage an operator must know to determine whether the semitrailer is mission-capable. Learn these leakage definitions. When in doubt, notify your supervisor.

Leakage Definitions for Operator/Crew PMCS

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

2-8. LEAKAGE DEFINITIONS (Con't).**CAUTION**

When operating with Class I or II leaks, continue to check fluid levels in addition to that required in PMCS. Parts without fluid with stop working or may be damaged.

b. Equipment operation is allowed with minor (Class I or II) leakage. Fluid levels in an item/system affected with such leakage must be checked more frequently than required in PMCS. When in doubt, notify your supervisor.

c. Report Class III leaks IMMEDIATELY to your supervisor.

Table 2-1. Operator/Crew Preventive Maintenance Checks and Services (PMCS).

B - Before

D - During

A - After

W - Weekly

M - Monthly

ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE Check for and have repaired, filled, or adjusted as needed.	Equipment Is Not Ready/Available If:
	B	D	A	W	M		
1	•					<p>NOTE</p> <p>Perform Before (B) PMCS If:</p> <ul style="list-style-type: none"> • You are the assigned operator, but have not used semitrailer since the last inspection. • You are using the semitrailer for the first time. <p>VEHICLE EQUIPMENT</p> <p>a. Check tools, mounted equipment, publications, and necessary forms for presence and general condition.</p> <p>b. Check wheel chocks and ground boards for looseness of mounting or connection.</p> <p>c. Check for presence of stakes and racks.</p>	Mission requires side racks or stakes and they are missing.
2	•					<p>TOWING CONNECTIONS</p> <p>Check kingpin (5), air couplings (1 and 4), and electrical receptacles (2 and 3) for proper connections (para 2-10).</p>	

Table 2-1. Operator/Crew Preventive Maintenance Checks and Services (PMCS) (Con't).

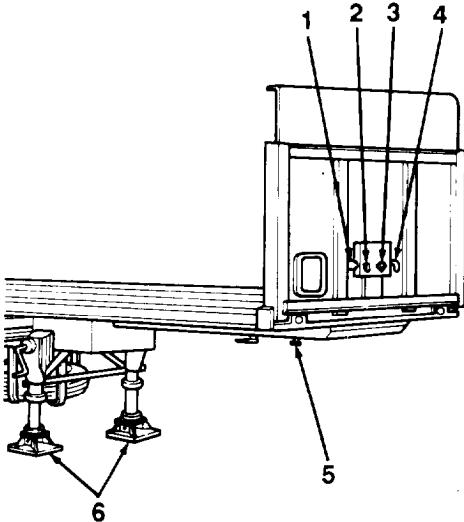
B - Before

D - During

A - After

W - Weekly

M - Monthly

ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Equipment Is Not Ready/Available If:
	B	D	A	W	M		
							
3		•				AIR HOSES AND ELECTRICAL CABLES <ol style="list-style-type: none"> Check intervehicular air hoses and electrical cables for cuts and breaks. Inspect gladhands (brake hose couplings) for security and/or damaged or missing seals. 	Hoses broken or missing. Gladhand missing, broken, damaged, or missing seals.
4		•				ELECTRICAL CONNECTIONS <ol style="list-style-type: none"> Inspect connector bodies for secure mounting/damage. Inspect pins for bent, burned, or broken condition. Look for foreign matter build-up. Inspect insulators for evidence of arcing. 	
5		•				LANDING GEAR <ol style="list-style-type: none"> Check landing gear (6) for damage. Check landing gear (6) and components for secure mounting. Check that crank hanger stows crank securely. Ensure that opposite leg moves equally with side being cranked. After coupling semitrailer to towing vehicle, check landing gear (6) for proper operation. 	Landing gear/leg inoperative. Landing leg binding or inoperative.

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Table 2-1. Operator/Crew Preventive Maintenance Checks and Services (PMCS) (Con't).

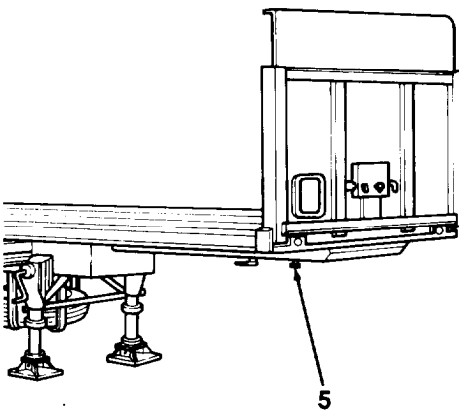
B - Before

D - During

A - After

W - Weekly

M - Monthly

ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Equipment is Not Ready/Available If:
	B	D	A	W	M		
6	•					WHEELS AND TIRES <ol style="list-style-type: none"> Remove any glass, nails, or other debris imbedded in tire tread. Check tires for obvious damage such as cuts, bruises, bulges, flats, and unusual wear. Check for proper tire pressure (para 1-10). Check for loose or missing wheel nuts. 	Two or more tires per axle missing or unserviceable.
7	•			•		KINGPIN AND FIFTH WHEEL PLATE <ol style="list-style-type: none"> Check security of mountings and adequate lubrication. Check for cracks on kingpin (5) or associated welds. Check for cracks and dents on kingpin plate. 	Two tires on one axle are flat, missing, or unserviceable.
	•						Three or more wheel nuts missing from any wheel.
	•						Cracked, bent, or damaged kingpin.
	•						Cracked or dented kingpin plate.
							
8					•	SPRINGS AND SUSPENSION <p>Check springs, suspension, and radius rods for damage.</p>	Loose, broken, or missing parts are evident.
9					•	LIGHTS AND REFLECTORS <ol style="list-style-type: none"> Check electrical harness and components for damage. 	

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Table 2-1. Operator/Crew Preventive Maintenance Checks and Services (PMCS) (Con't).

B - Before

D - During

A - After

W - Weekly

M - Monthly

ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Equipment Is Not Ready/Available If:
	B	D	A	W	M		
9	•					LIGHTS AND REFLECTORS (Con't) b. Check for obvious damage and loose or missing lights, lenses, and reflectors. c. Check for proper operation.	
10		•				BRAKE SYSTEM a. Couple semitrailer to towing vehicle and fully pressurize air system (para 2-10). Check air lines and hoses for leaks. b. Check air pressure gage of towing vehicle and report any excessive drop in pressure to organizational maintenance.	Air leaks found. Service brakes do not operate.
		•				WARNING Cautiously feel each wheel hub and brakedrum. Wheel hubs or brakedrums may be hot. Failure to follow this warning may result in burns.	
			•			c. Cautiously feel each wheel hub and brakedrum. Overheating could indicate improperly adjusted or defective wheel bearings, or a locked-up brake. A cool wheel hub and brakedrum could indicate an inoperative brake. IMMEDIATELY report any abnormal conditions to organizational maintenance.	Brakedrum abnormally hot.
		•				d. Check for proper operation of service brakes.	Service brakes or spring brakes fail to operate.
11		•				ROAD TEST a. Be alert for unusual or excessive noises which may indicate damage, looseness, defects, or improper lubrication of suspension system.	Any condition that would affect safe operation is evident.
		•				b. While moving straight ahead, note any wander or pull to one side which may indicate axle misalignment or improperly adjusted wheel bearings or brakes.	Semitrailer wanders or pulls to one side.

Table 2-1. Operator/Crew Preventive Maintenance Checks and Services (PMCS) (Con't).

B - Before

D - During

A - After

W - Weekly

M - Monthly

ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Equipment Is Not Ready/Available If:
	B	D	A	W	M		
12						AIR RESERVOIR <u>WARNING</u> Wear safety goggles to prevent eye injury when opening air reservoir draincock. Step away from airstream to prevent injuries. a. Check for open air reservoir draincocks. Close draincocks if open. b. Check air reservoir for damage and leaks. c. Open air reservoir draincock and allow all fluid to drain. Close draincock after all fluid has been drained.	Air reservoir leaking or damaged.

Section III. OPERATION UNDER USUAL CONDITIONS

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Towing Instructions,	2-18
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Uncoupling Semitrailer from Towing Vehicle	2-20
Unloading Semitrailer	2-14

2-9. GENERAL.

a. This section contains instructions for safely operating the M872 Series Flatbed Semitrailers under usual conditions. Unusual operating conditions are defined and described in Section IV of this chapter.

b. Perform all *Before* (B) PMCS in Table 2-1 before operating the semitrailer.

c. Review all towing vehicle operating instructions to prepare for coupling and uncoupling operations.

2-10. COUPLING SEMITRAILER TO TOWING VEHICLE.

WARNING

All personnel must stand clear of towing vehicle and semitrailer during coupling operation. Failure to follow this warning may result in serious injury or death to personnel.

a. Chock semitrailer wheels.

2-10. COUPLING SEMITRAILER TO TOWING VEHICLE (Con't).

CAUTION

Have assistant direct you during backing operations. Damage to equipment may result if caution is not followed.

b. Aline towing vehicle with semitrailer and slowly back towing vehicle so that kingpin (5) alines with coupler jaws (9). Ensure that kingpin is at proper height to engage fifth wheel (10). Minimum kingpin height is above tractor approach ramps (8). Maximum kingpin height is $1\frac{1}{2}$ in. (3.8 cm) below fifth wheel. Adjust height of semitrailer with landing gear (6).

c. Slowly back towing vehicle until coupler jaws (9) engage kingpin (5) and lock.

NOTE

Step d applies to all models except M872A1.

d. Connect 24-volt electrical connector to electrical receptacle (4), or 12-volt electrical connector to electrical receptacle (3).

NOTE

Step e applies only to M872A1.

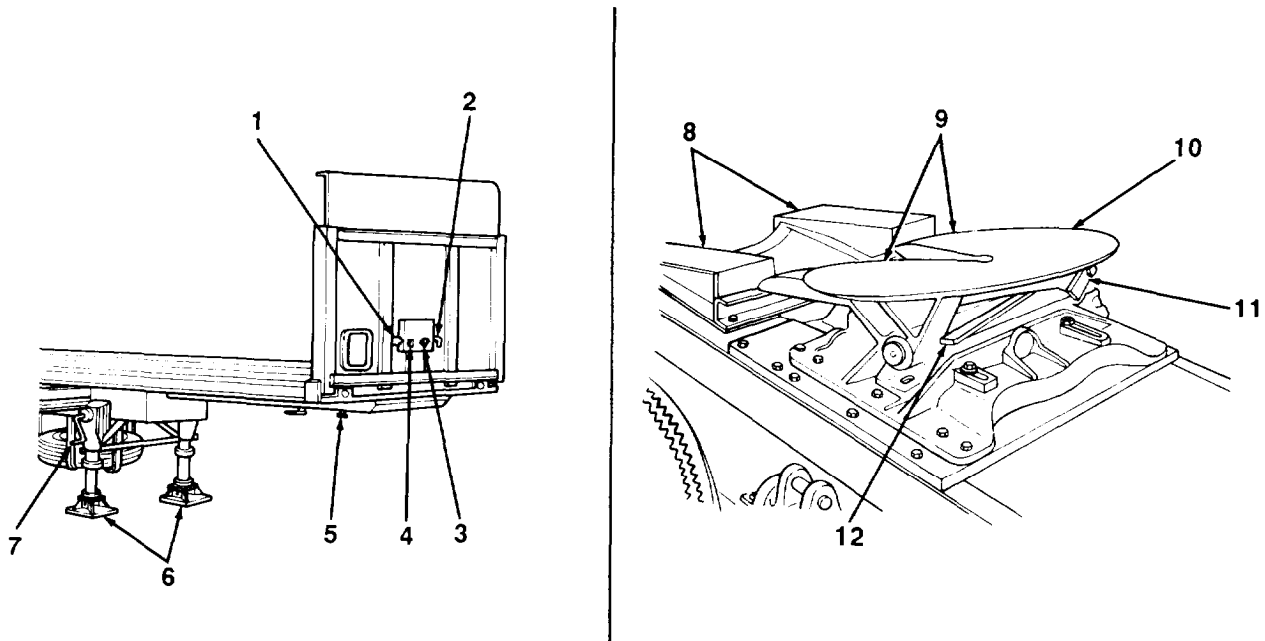
e. Connect 24-volt electrical connector to electrical receptacle (3), or 12-volt electrical connector to electrical receptacle (4).

f. Connect service air line to semitrailer air coupling (1). Connect emergency air line to semitrailer air coupling (2),

g. Pressurize air system by applying towing vehicle brakes. Ensure that fifth wheel locking plunger lever (12) and safety latch (11) are in locked position.

h. Engage handcrank (7) and raise landing gear (6).

i. Fold and stow handcrank (7), and remove and stow chock blocks.

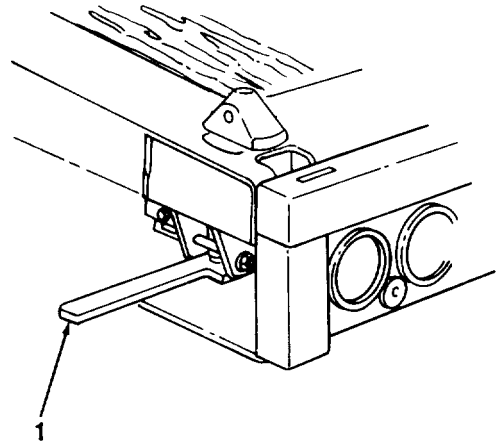


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2-11. LOADING SEMITRAILER.

a. Loading Semitrailer Using Retractable Twist Lock (All Except M872A3).

(1) Push twist lock up and turn handle (1) 90° clockwise.

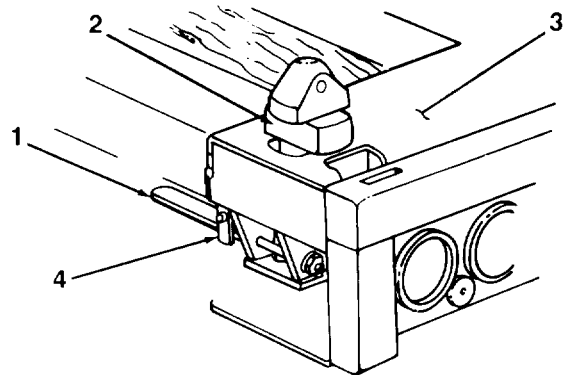


(2) Push twist lock up until bayonet collar (2) is clear of siderail (3) surface.

(3) While holding twist lock up, turn bayonet collar (2) 90° clockwise. Release twist lock to seat bayonet collar on siderail (3).

(4) Load and secure container(s) on semitrailer.

(5) Turn handle (1) 90° counterclockwise into locked position. Move locking tab (4) down to secure.



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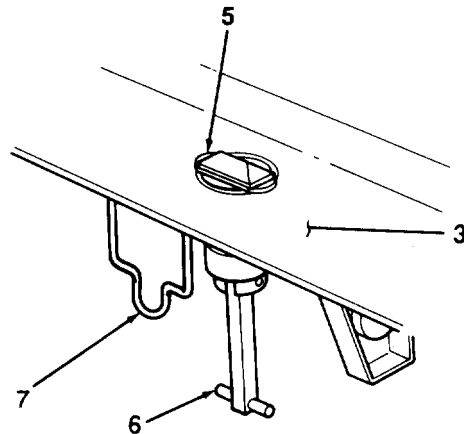
2-11. LOADING SEMITRAILER (Con't).

b. Loading Semitrailer Using Retractable Twist Lock (M872A3).

(1) Release handle (6) from latch (7).

(2) Push handle (6) up until bayonet collar (5) is above siderail (3) surface and turn 90° counter-clockwise.

(3) Load and secure container(s) on semitrailer.



NOTE

Hold bayonet collar while turning handle.

(4) Turn handle (6) 90° clockwise into locked position with bayonet (8) perpendicular to bayonet collar (5).

(5) Secure handle (6) in latch (7).

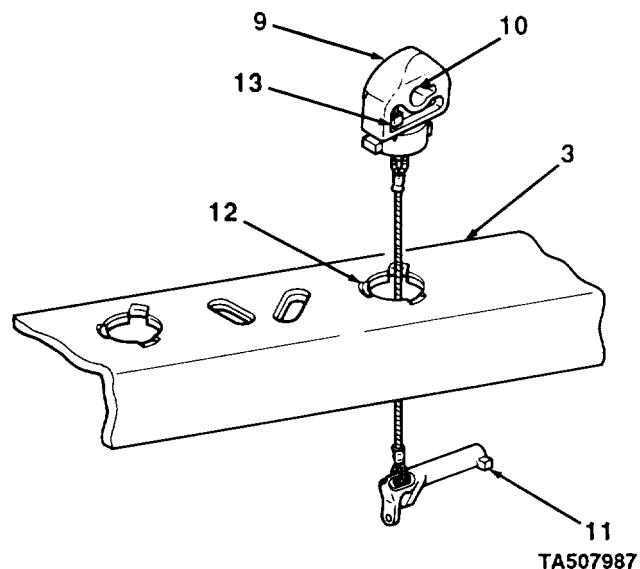
c. Loading Semitrailer Using Removable Container Locks.

(1) Insert container lock (9) in siderail (3) and turn counterclockwise until lockpin (13) is aligned with slot (12) in siderail.

(2) Push lockpin (13) down to engage in siderail (3).

(3) Load and position container(s) on semitrailer.

(4) Insert F-pin (11) through hole (10) in container lock (9) and container corner fitting and turn until container is secured.



2-11. LOADING SEMITRAILER (Con't).**d. Loading Semitrailer Using Cargo Ring and Hook.**

(1) Insert ring and hook(14) in siderail (3) and turn approximately 45° to prevent hook from disengaging.

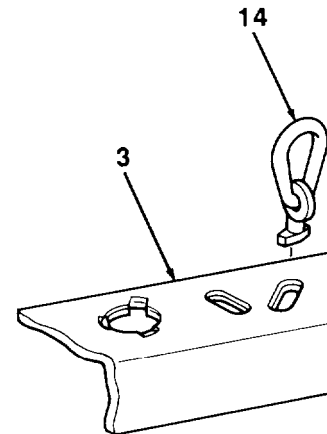
WARNING

Ring and hook must be rotated to engaged position before applying pressure to tighten strap/chain. Failure to follow this warning may cause strap/chain to disengage, resulting in injury to personnel.

NOTE

When hauling ammunition items, ring and hook may be used in combination with other items listed in the Additional Authorization List (Appendix D). For additional information on ammunition transport, refer to DA Pam 75-5.

(2) Secure and tighten strap/chain to ring and hook (14).

**e. Loading Semitrailer Using Tie-down Assembly ("Mickey Mouse").**

(1) Insert tie-down assembly (15) in siderail (3) and turn approximately 45° to prevent tie-down assembly from disengaging.

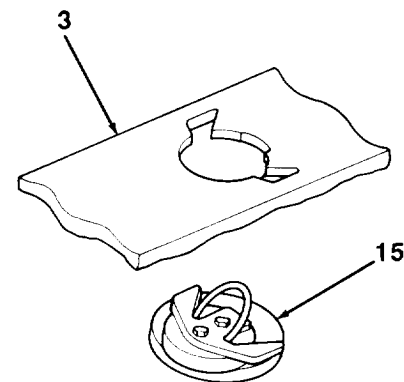
WARNING

Tie-down assembly must be rotated to engaged position before applying pressure to tighten strap/chain. Failure to follow this warning may cause strap/chain to disengage, resulting in injury to personnel.

NOTE

Tie-down assemblies are used when loading and transporting ammunition. For additional information on ammunition transport refer to DA Pam 75-5.

(2) Secure and tighten strap to tie-down assembly (15).



2-12. UNLOADING SEMITRAILER.

a. Unloading Semitrailer Using Retractable Twist Lock (All Except M872A3).

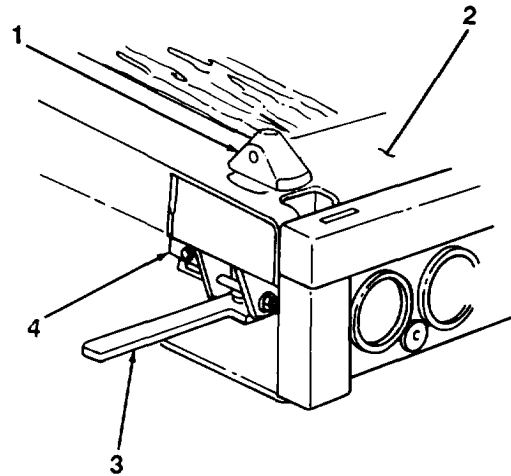
(1) Raise locking tab (4) and turn handle (3) 90° clockwise.

(2) Unfasten and remove container(s) from semitrailer.

(3) Push twist lock up until bayonet collar (1) is clear of siderail (2) surface.

(4) Turn bayonet collar (1) 90° counterclockwise and lower twist lock.

(5) Turn handle (3) 90° counterclockwise into locked position.



b. Unloading Semitrailer Using Retractable Twist Lock (M872A3).

(1) Release handle (5) from latch (6) and lower.

(2) Turn handle (5) 90° counterclockwise.

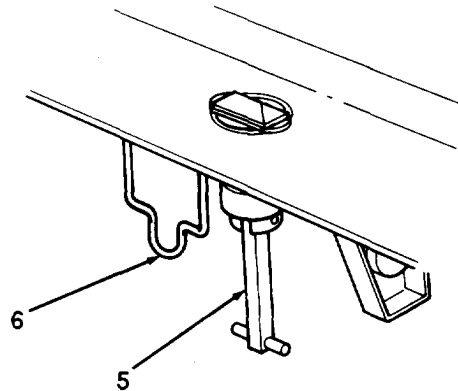
(3) Unfasten and remove container(s) from semitrailer.

NOTE

Hold bayonet collar while turning handle.

(4) Turn handle (5) 90° clockwise and release handle.

(5) Raise handle (5) and secure in latch (6).



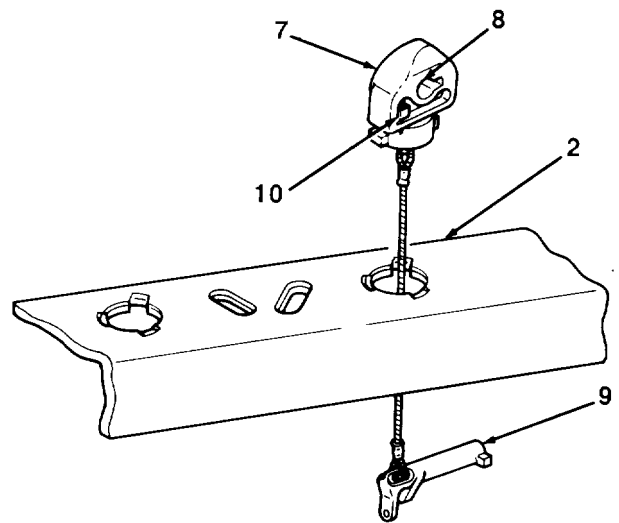
2-12. UNLOADING SEMITRAILER (Con't).**c. Unloading Semitrailer Using Removable Container Locks.**

(1) Turn F-pin (9) and remove from hole (8) in container lock (7) and container corner fitting.

(2) Unfasten and remove container(s) from semitrailer.

(3) Push lockpin (10) up to disengage from siderail (2).

(4) Turn container lock (7) clockwise and remove from siderail (2).

**d. Unloading Semitrailer Using Cargo Ring and Hook.**

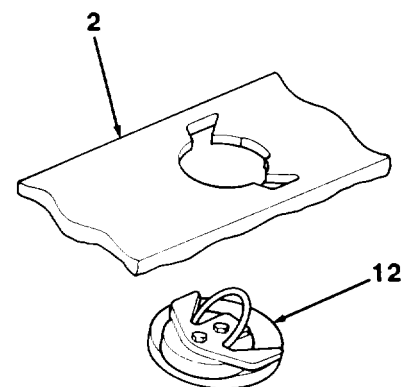
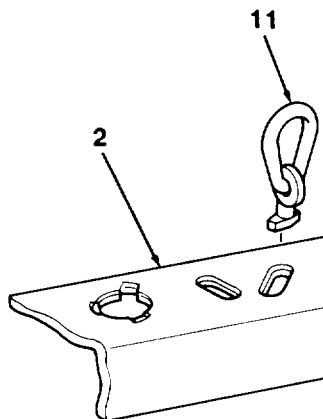
(1) Unfasten and remove container(s) from semitrailer.

(2) Turn ring and hook (11) approximately 45° and remove from siderail (2).

e. Unloading Semitrailer Using Tie-down Assembly ("Mickey Mouse").

(1) Unfasten and remove strap from tie-down assembly (12).

(2) Turn tie-down assembly (12) approximately 45° and remove from siderail (2).



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2-13. INSTALLING SIDE RACKS AND STAKES.

NOTE

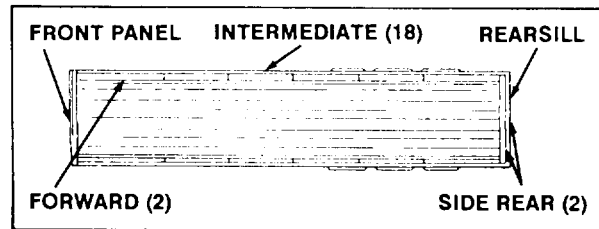
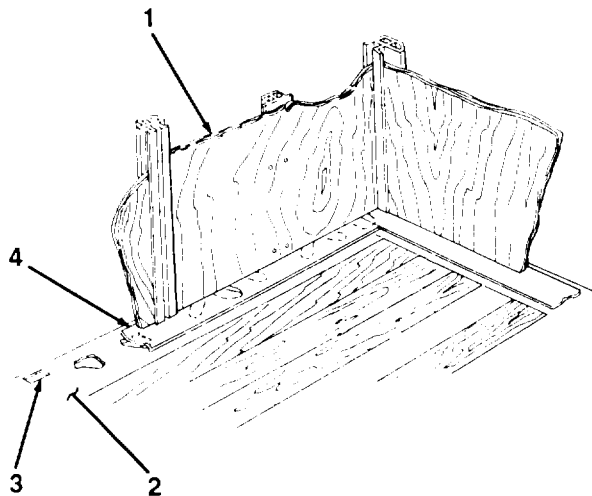
Step a applies only if hauling granular bulk cargo or ammunition.

- a. Position cover plates (4) on siderails (2) and rear sill.

NOTE

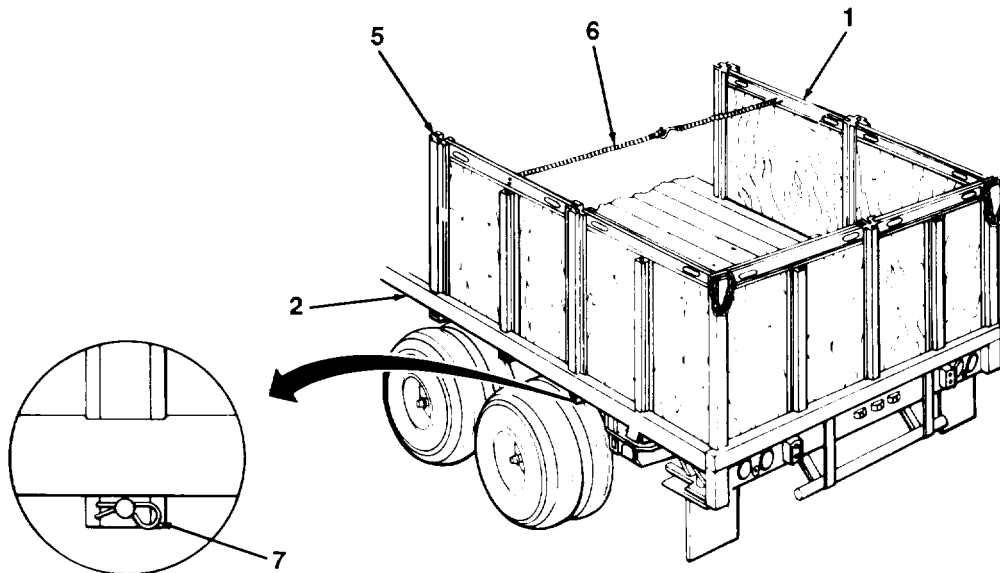
Side racks are three different sizes. Ensure that they are installed in proper position.

- b. Install side racks (1) in rectangular holes (3) in siderails (2) and rear sill in position shown.



COVER PLATE ARRANGEMENT

- c. Install side stakes (5) in siderails (2) and lock in position with retainer clips (7).



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2-13. INSTALLING SIDE RACKS AND STAKES (Con't).**CAUTION**

Careful location of spreader chains is essential to adequately contain bulk cargo when using side racks. Improper placement of spreader chains may result in damage to equipment.

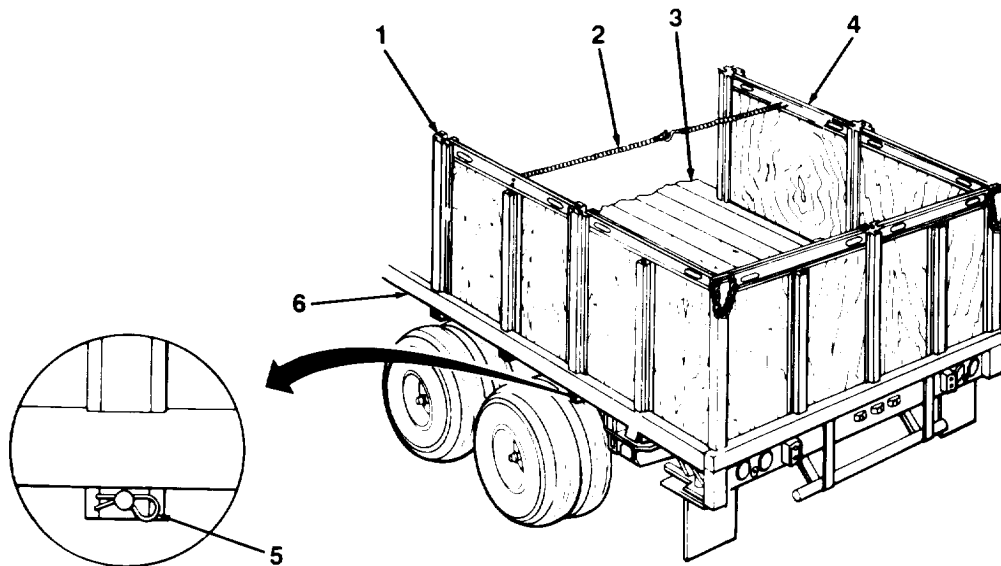
NOTE

Step d applies only if hauling bulk cargo or ammunition. For additional information of ammunition transport, refer to DA Pam 75-5.

- d. Center spreader chains (6) over semitrailer and attach to side racks (1) to provide support.

2-14. REMOVING SIDE RACKS AND STAKES.

- a. Remove spreader chains (2) from side racks (4), if installed.
- b. Remove retainer clips (5) and side stakes (1) from siderails (6).
- c. Remove side racks (4) from siderails (6) and rear sill and stow.
- d. Remove cover plates (3) from siderails (6) and rear sill, if installed.



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2-15. TOWING INSTRUCTIONS.

WARNING

- Before moving semitrailer, ensure that all loose equipment is properly stowed and that nothing will drag on ground. If semitrailer is loaded, ensure that load is properly secured. Failure to follow this warning may result in injury to personnel or damage to equipment.
- DO NOT tow semitrailer at speeds exceeding the following. Failure to follow this warning may result in injury to personnel or damage to equipment.

Highway 55 mi/h (88 km/h)

Dirt/Gravel 20 mi/h (32 km/h)

Off-road 10 mi/h (16 km/h)

a. Perform all During (D) PMCS in Table 2-1 while operating the semitrailer.

b. When towing the semitrailer, overall length of the unit must be kept in mind when passing other vehicles and when turning.

c. Turning and backing operations will be affected because the towing vehicle and semitrailer are a hinged unit. When backing have assistant direct you. Adjust rearview mirrors before backing. When backing, rear of semitrailer will move in opposite direction from towing vehicle's front wheels. If wheels are turned to the right, semitrailer will go left. If wheels are turned left, semitrailer will go right.

d. Always tow the semitrailer at safe speeds and note any driving irregularities.

NOTE

Ensure that chock block chains are disconnected from semitrailer before chocking wheels.

e. When parking for extended periods, set parking brakes on both towing vehicle and semitrailer. Turn off towing vehicle engine before leaving cab. Chock semitrailer wheels.

f. If the towing vehicle and semitrailer are parked on a hill, chock wheels.

g. Refer to FM 21-305 for further information on proper driving practices.

2-16. CAGING AND UNCAGING SPRING BRAKES (M872 AND M872A3).

a. Caging Spring Brakes.

WARNING

Chock wheels to prevent semitrailer from moving when brakes are released (caged). Failure to follow this warning may result in serious injury or death.

NOTE

In the event of air system pressure loss, failsafe units on center axle will automatically apply brakes. If semitrailer must be moved and there is not enough air system pressure to compress spring in spring brake chambers to release brakes, you will have to do this manually.

(1) Chock semitrailer wheels.

2-16. CAGING AND UNCAGING SPRING BRAKES (M872 AND M872A3) (Con't).

- (2) Remove cap (1) from access hole (6),
- (3) Remove nut (2), washer (3), and release stud (5) from airbrake chamber (4).
- (4) Insert tab end of release stud (5) in access hole (6) and turn release stud $\frac{1}{4}$ turn clockwise.
- (5) Install washer (3) and nut (2) on release stud (5). Tighten nut until spring is fully caged.
- (6) Repeat steps 2 through 5 for remaining spring brake chambers.
- (7) Remove wheel chocks and stow.
- (8) Move semitrailer off travelled portion of road.
- (9) Chock semitrailer wheels.
- (10) Notify organizational maintenance.

b. Uncaging Spring Brakes.**WARNING**

Chock wheels to prevent semitrailer from moving when brakes are released (caged). Failure to follow this warning may result in serious injury or death.

- (1) Remove nut (2) and washer (3) from release stud (5).
- (2) Remove release stud (5) from access hole (6),
- (3) Install release stud (5) on airbrake chamber (4) with washer (3) and nut (2).
- (4) Install cap (1) on access hole (6).
- (5) Repeat steps 1 through 4 for remaining spring brake chambers.
- (6) Remove and stow chocks.

2-17. FOLDING TARPAULIN.**CAUTION**

Do not fold or stow tarpaulin when wet or dirty. Failure to follow this caution may result in damage to tarpaulin.

- a. Lay tarpaulin on a flat, clean surface.
- b. Fold top and bottom ends of tarpaulin to the middle. Lay ropes straight.
- c. Fold both sides of tarpaulin to the middle. Lay ropes straight.
- d. Fold tarpaulin in half.

NOTE

The ropes are used to secure tarpaulin when it is folded. Ensure that all air has been released by pressing or kneeling on folded tarpaulin.

- e. Fold tarpaulin in half again and secure with ropes.
- f. Stow tarpaulin in stowage box (para 1-7).

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2-18. UNCOUPLING SEMITRAILER FROM TOWING VEHICLE.

WARNING

All personnel must stand clear of towing vehicle and semitrailer during uncoupling operation. Failure to follow this warning may result in serious injury or death to personnel.

- a. Chock semitrailer wheels.
- b. Lower landing gear (6).
- c. Close airline shut-off valves on towing vehicle. Disconnect service air line from semitrailer air coupling(I). Disconnect emergency air line from semitrailer air coupling (2).

NOTE

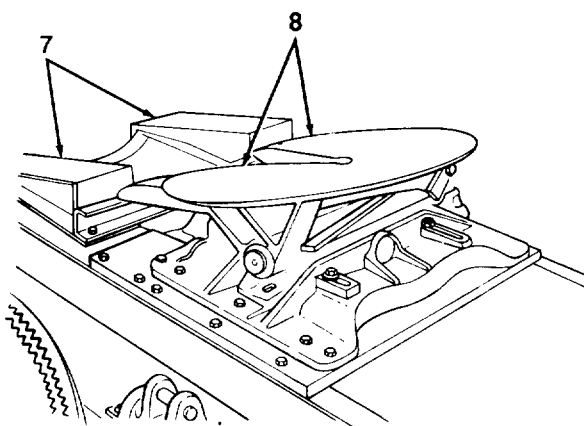
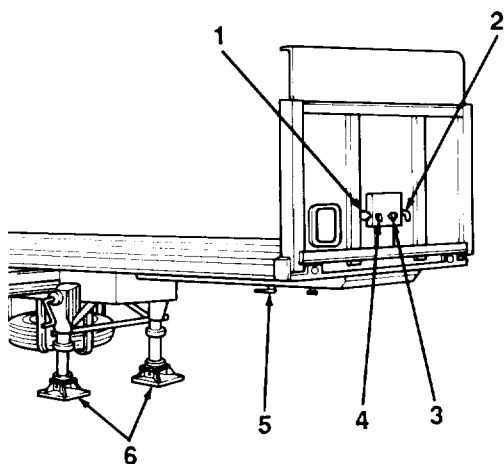
Step d applies to all models except M872A1.

- d. Disconnect 24-volt electrical connector from semitrailer electrical receptacle (4), or disconnect 12-volt electrical connector from semitrailer electrical receptacle (3).

NOTE

Step e applies only to M872A1.

- e. Disconnect 24-volt electrical connector from semitrailer electrical receptacle (3), or disconnect 12-volt electrical connector from semitrailer electrical receptacle (4).
- f. Push fifth wheel locking plunger (8) forward and slowly drive towing vehicle forward until kingpin plate (7) clears fifth wheel approach ramps (7).
- g. Move towing vehicle a safe distance from semitrailer.
- h. Perform all After (A) PMCS in Table 2-1.



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2-19. SLINGING OPERATIONS.

WARNING

All personnel must stand clear of semitrailer during slinging operation. Failure to follow this warning may result in serious injury or death to personnel.

CAUTION

- Sling only an empty semitrailer or a semitrailer loaded with a 40 ft (12 m) container. Do not sling semitrailer in any other configuration. Failure to follow this caution may result in damage to equipment.
- Do not sling semitrailer unless all four sling provisions are fully extended and locked. Failure to follow this caution may result in damage to equipment.

a. **M872.**

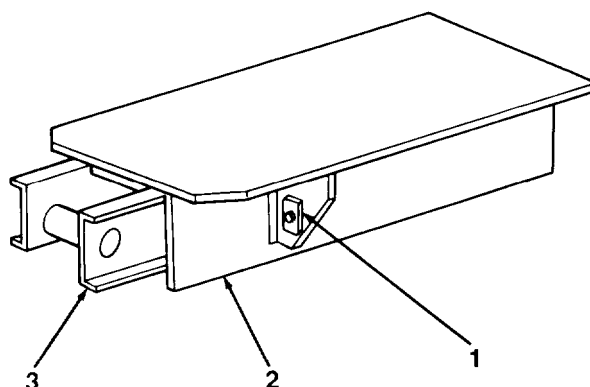
(1) Push locking tab (1) up until clear of housing (2) and pull sling provision (3) to fully extended position. Push locking tab down to lock sling provision in extended position. Repeat for other sling provisions.

(2) Attach lifting cables to sling provisions (3) and complete slinging operation according to semitrailer data plate.

(3) On completion of slinging operation, remove lifting cables from sling provisions (3).

(4) Push locking tab (1) up and push sling provision (3) into fully retracted position. Push locking tab down to lock sling provision in stowed position.

(5) Repeat step 4 to stow other sling provisions (3).



b. **M872A1 AND M872A2.**

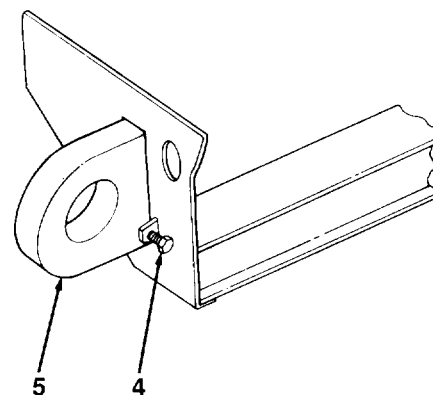
(1) Loosen bolt (4) and pull sling provision (5) out to fully extended position. Repeat for other sling provisions.

(2) Attach lifting cables to sling provisions (5) and complete slinging operation according to semitrailer data plate.

(3) On completion of slinging operation, remove lifting cables from sling provisions (5).

(4) Push sling provision (5) into fully retracted position. Tighten bolt (4) to lock sling provision in retracted position.

(5) Repeat step 4 to stow other sling provisions (5).



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2-19. SLINGING OPERATIONS (Con't).**c. M872A3.**

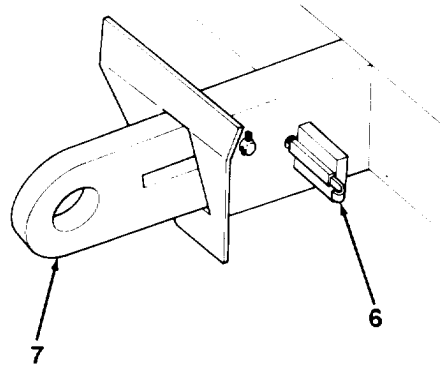
(1) Pull latch (6) out and pull sling provision (7) out to fully extended position. Repeat for other sling provisions.

(2) Attach lifting cables to sling provisions (7) and complete slinging operation according to semitrailer data plate.

(3) On completion of slinging operation, remove lifting cables from sling provisions (7).

(4) Pull latch (6) out and push sling provision (7) into fully retracted position. Release latch to lock sling provision in stowed position.

(5) Repeat step 4 to stow other sling provisions (7).

**Section IV. OPERATION UNDER UNUSUAL CONDITIONS**

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Operation in Extreme Heat	2-23
Operation in Mud	2-23
Operation in Saltwater Areas	2-23
Operation in Sandy or Dusty Areas	2-23
Operation in Snow	2-23

2-20. GENERAL.

a. This section contains instructions for safely operating the M872 Series Flatbed Semitrailers under unusual conditions. In addition to normal preventive maintenance and service, special care must be taken to keep the semitrailers operational in extreme temperatures and humidity.

b. Chronic failure of materiel resulting from exposure to extreme conditions must be reported in accordance with DA Pam 738-750.

2-21. OPERATION IN EXTREME COLD.

a. Special care must be taken when operating the semitrailers in cold weather. Refer to FM 21-305 for special instructions for all semitrailers.

b. Refer to Chapter 3, Section I for proper lubrication during extreme cold weather.

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2-21. OPERATION IN EXTREME COLD (Con't).

c. When parking for any period of time in temperatures below 0°F (-18°C), park in a sheltered area out of the wind and clean off any build-up of ice or snow. Place a footing of planks or brush under tires and landing legs to prevent them from freezing to the ground. Ensure that the tires are properly inflated (para 1-10). Underinflated tires will freeze, resulting in flat spots.

d. Be cautious when placing semitrailer in motion after a shutdown. Thickened lubricants may cause failure of components. Free frozen brakeshoes, or tires frozen to ground, with care.

2-22. OPERATION IN EXTREME HEAT.

- a. Refer to Chapter 3, Section I for proper lubrication during extreme heat conditions.
- b. Do not park the semitrailer in sunlight for long periods of time. Heat and sunlight shorten tire life.
- c. Shelter or cover the semitrailer with tarpaulin, if available.

2-23. OPERATION IN SANDY OR DUSTY AREAS.

- a. Clean, inspect, and lubricate the semitrailer more often in sandy or dusty areas (Chapter 3, Section I).
- b. Reduce tire pressure to 25 psi (172 kPa) for maximum mobility in sand.
- c. Maximum allowable speed when driving in sand is 20 mph (32 km/h).

2-24. OPERATION IN SALTWATER AREAS.

Clean, inspect, and lubricate the semitrailer more often when operating in saltwater areas (Chapter 3, Section I).

2-25. OPERATION IN MUD.

- a. Immediately after operation in mud, thoroughly clean, inspect, and lubricate if tactical situation permits (Chapter 3, Section I).
- b. Reduce tire pressure to 25 psi (172 kPa) for maximum mobility in mud.
- c. Maximum allowable speed when driving in mud is 5 mi/h (8 km/h).
- d. If one or more wheels sink into mud, it may be necessary to raise mired wheel and insert planking or matting beneath it.

2-26. OPERATION IN SNOW.

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

2-27. FORDING.

Semitrailer will sustain water fording up to a depth of 30 in. (76 cm).

CHAPTER 3 OPERATOR MAINTENANCE

Section I. LUBRICATION INSTRUCTIONS

Paragraph Title	Page Number
General	3-1
Lubrication Chart	3-2
Specific Lubrication Instructions	3-1

3-1. GENERAL.

NOTE

These instructions are MANDATORY.

- a. The semitrailers must receive lubrication with approved lubricants at recommended intervals in order to be mission-ready at all times.
- b. The KEY lists lubricants to be used in all temperature ranges and shows the intervals.
- c. The Lubrication Chart shows lubrication points, names items to be lubricated, the required lubricant, and recommended intervals for lubrication. Any special lubricating instructions required for specific components are contained in the NOTES section of the chart.
- d. Recommended intervals are based on normal conditions of operation, temperature, and humidity, when operating under extreme conditions, lubricants should always be changed more frequently. When in doubt, notify your supervisor.

3-2. SPECIFIC LUBRICATION INSTRUCTIONS.

- a. Keep all lubricants in a closed container and store in a clean, dry place away from extreme heat. Keep container covers clean and do not allow dust, dirt, or other foreign material to mix with lubricants. Keep all lubrication equipment clean and ready for use.
- b. Maintain a record of lubrication performed and report any problems noted during lubrication. Refer to DA Pam 738-750 for maintenance forms and procedures to record and report any findings.

WARNING

Wipe excess lubricant from the area of brakeshoe linings to avoid grease soaking the linings. If brakeshoe linings become soaked, have unit maintenance replace them. Failure to follow this warning may cause brakes to malfunction, resulting in serious injury or death to personnel.

- c. Keep all external parts of equipment not requiring lubrication free of lubricants. After lubrication, wipe off excess oil or grease to prevent accumulation of foreign matter.
- d. Refer to FM 9-207 for lubrication instructions in cold weather.
- e. After operation in muddy, sandy, or dusty conditions, clean and inspect all points of lubrication for fouled lubricants. Change lubricants as required.

LUBRICATION CHART

SEMITRAILER, FLATBED, BREAKBULK/CONTAINER
TRANSPORTER: 34 TON, M872 SERIES

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

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

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-

ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

Clean all fittings and area around lubrication points with dry cleaning solvent (Item 12, Appendix E) or equivalent before lubricating equipment. After lubrication, wipe off excess oil or grease to prevent accumulation of foreign matter.

The lowest level of maintenance authorized to lubricate a point is indicated in parentheses by use of the following: (C) Operator/Crew, or (O) Unit Maintenance.

LUBRICANT • INTERVAL		INTERVAL • LUBRICANT	
Sling Provisions (Note 5) (O)	GAA S	S GAA	Twist Locks (O)
		Q GAA	Kingpin and Kingpin Plate (Note 3) (O)
		S GAA	Landing Gear (Note 4) (O)
Camshaft (Four Fittings Each Axle) (O)	GAA S		
Wheel Bearings (Note 2) (O)	GAA A	S GAA	Slack Adjuster (Two Fittings Each Axle) (O)
Sling Provisions (Note 5) (O)	GAA S	S GAA	Twist Locks (O)
TOTAL MAN-HOURS*			
INTERVAL		MAN-HOUR	
Q		1.2	
S		0.5	
A		1.5	
* The man-hour time specified is the time you need to do all services prescribed for a particular interval.			
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- KEY -

LUBRICANTS	EXPECTED TEMPERATURES			FOR ARCTIC OPERATIONS, REFER TO FM 9-207	INTERVALS
	ABOVE +32°F (ABOVE -0°C)	+40°F to -10°F (+4°C to -23°C)	0°F to -65°F (-18°C to -54°C)		
OE/HDO (MIL-L-2104) Lubricating Oil, Internal Combustion Engine, Tactical Service	OE/HDO-30	OE/HDO-10	—		Q - Quarterly
OE A (MIL-L-46167) Lubricating Oil, Internal Combustion Engine, Arctic	—	—	OE A		S - Semiannual
GAA (MIL-G-10924) Grease, Automotive and Artillery	All Temperatures				A - Annual

NOTES:

1. OIL CAN POINTS. Every month, lubricate stowage compartment door hinges and latches, sling revision latches, folding bulkhead hinges, and side rack chains, locking devices, and twist locks with OE/HDO-10.

2. WHEEL BEARINGS. Every 12 months or 12,000 miles, remove, clean, and pack with GAA. Refer to TM 9-214, Inspection, Care, and Maintenance of Antifriction Bearings.

3. KINGPIN AND KINGPIN PLATE. If semitrailer is in continuous use, lubricate weekly.

4. LANDING GEAR. Remove access cover from each landing leg and apply GAA.

5. SLING PROVISIONS. Fully extend and apply grease to outer surface.

Section II. OPERATOR/CREW TROUBLESHOOTING PROCEDURES

Paragraph Title	Page Number
Explanation of Columns	3-5
General	3-5
Operator/Crew Troubleshooting, Table 3-1	3-6
Troubleshooting Symptom Index	3-6

3-3. GENERAL.

a. This section provides information for identifying and correcting malfunctions which may develop while operating your semitrailer.

b. The Troubleshooting Symptom Index in paragraph 3-5 lists common malfunctions which may occur, and refers you to the proper page in Table 3-1 for a troubleshooting procedure.

c. If you are unsure of the location of an item mentioned in troubleshooting, refer to paragraph 1-7 or to the maintenance task where the item is replaced.

d. Before performing troubleshooting, read and follow all safety instructions found in the Warning Summary at the front of this manual.

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

f. When troubleshooting a malfunction:

(1) Locate the symptom or symptoms in the Troubleshooting Symptom Index in paragraph 3-5 that best describe the malfunction.

(2) Turn to the page in Table 3-1 where the troubleshooting procedures for the malfunction in question are described. Headings at top of each page show how each troubleshooting procedure is organized: MALFUNCTION, TEST OR INSPECTION (in step number order), and CORRECTIVE ACTION.

(3) Perform each step in the order listed until the malfunction is corrected. DO NOT perform any maintenance task unless the troubleshooting procedure tells you to do so.

3-4. EXPLANATION OF COLUMNS.

The columns in Table 3-1 are defined as follows:

(1) **MALFUNCTION.** A visual or operational indication that something is wrong with the semitrailer.

(2) **TEST OR INSPECTION.** A procedure to isolate the problem in a component or system.

(3) **CORRECTIVE ACTION.** A procedure to correct the problem.

3-5. TROUBLESHOOTING SYMPTOM INDEX.

	Troubleshooting Procedure Page
BRAKES	
Brakes Grab	3-8
Brakes Will Not Release	3-7
ELECTRICAL SYSTEM	
All Lamps Fail To Light	3-6
Dim or Flickering Lights	3-7
One or More Lamps (But Not All) Fail To Light	3-7
LANDING GEAR	
Landing Gear Difficult To Lower	3-8
Landing Gear Difficult To Raise	3-9
TIRES	
Abnormal Tire Wear	3-8

Table 3-1. Operator/Crew Troubleshooting.

MALFUNCTION		
TEST OR INSPECTION		CORRECTIVE ACTION
ELECTRICAL SYSTEM		
1. ALL LAMPS FAIL TO LIGHT.		
Step 1.	Check towing vehicle for inoperative lights.	
	Report inoperative lights to organizational maintenance.	
Step 2.	If only towing vehicle lights operate, check towing vehicle electrical connector for loose or improper connection at semitrailer electrical receptacle.	
	Connect electrical connector (para 2-10).	
Step 3.	Check semitrailer electrical receptacles and towing vehicle electrical connector for dirty and corroded contacts.	
	Clean contacts.	
	If condition is beyond immediate repair, notify organizational maintenance.	
Step 4.	Check for burned out lamps.	
	Notify organizational maintenance if lamps are burned out.	

Table 3-1. Operator/Crew Troubleshooting (Con't).

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
2. ONE OR MORE LAMPS (BUT NOT ALL) FAIL TO LIGHT.		
Step 1.	Check for burned out lamps.	Notify organizational maintenance if lamps are burned out.
Step 2.	Check for broken lead wires and loose connections.	Clean and tighten connections. Notify organizational maintenance if any lead wires or wiring harness require replacement.
Step 3.	Check light assemblies for damage.	Notify organizational maintenance if light assemblies require repair or replacement.
3. DIM OR FLICKERING LIGHTS.		
Step 1.	Check for loose, dirty, or corroded terminals.	Clean and tighten terminals as necessary.
Step 2.	Check for damaged lamp.	Notify organizational maintenance if lamp requires replacement.
Step 3.	Check semitrailer electrical receptacle and towing vehicle electrical connector for dirty and corroded contacts.	Clean electrical receptacles and contacts.

BRAKES

4. BRAKES WILL NOT RELEASE.

WARNING

Chock wheels to prevent semitrailer from moving when brakes are released. Failure to follow this warning may result in serious injury or death.

NOTE

In the event of air system pressure loss, failsafe units on center axle will automatically apply brakes. If semitrailer must be moved and there is not enough air system pressure to compress spring in spring brake chambers to release brakes, you will have to do this manually (para 2-16).

- Step 1. Check for proper air coupling connections at towing vehicle and semitrailer (para 2-10).
Connect air couplings.
- Step 2. Check for air leaks in brake hoses and connectors.
Notify organizational maintenance if hoses or connectors require replacement.

Table 3-1. Operator/Crew Troubleshooting (Con't).

MALFUNCTION**TEST OR INSPECTION****CORRECTIVE ACTION**

- Step 3. Check that airbrake shut-off valves on towing vehicle are open.
Open airbrake shut-off valves.
- Step 4. Check that air reservoir draincock is closed.
Close air reservoir draincock.
- Step 5. Check towing vehicle for proper air pressure. Refer to towing vehicle technical manual.
If air pressure is low, increase to normal level.

5. BRAKES GRAB.**WARNING**

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

Check for moisture in air reservoir.

Open draincock and drain reservoir.

*TIRES***6. ABNORMAL TIRE WEAR.**

- Step 1. Check tires for proper inflation.
Inflate tires to proper pressure (para 1-10).
- Step 2. Check for loose wheel nuts.
Tighten wheel nuts. Notify organizational maintenance to apply proper torque.

*LANDING GEAR***7. LANDING GEAR DIFFICULT TO LOWER.**

- Step 1. Check for misaligned or broken handcrank.
Notify organizational maintenance if repair or replacement is required.
- Step 2. Check for misaligned, bent, and damaged landing legs.
Notify unit maintenance if repair or replacement is required.

Table 3-1. Operator/Crew Troubleshooting (Con't).

MALFUNCTION	
TEST OR INSPECTION	
CORRECTIVE ACTION	

8. LANDING GEAR DIFFICULT TO RAISE.

- Step 1. Check for misaligned or broken handcrank.
Notify organizational maintenance if repair or replacement is required.
- Step 2. Check for dirt on lower landing leg.
Clean landing leg as necessary.
- Step 3. Check for misaligned, bent, and damaged landing legs.
Notify organizational maintenance if repair or replacement is required.

CHAPTER 4
ORGANIZATIONAL MAINTENANCE

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

Paragraph	Title	Page Number
Common Tools and Equipment		4-1
Repair Parts		4-1
Special Tools; Test, Measurement, and Diagnostic Equipment (TMDE); and Support Equipment		4-1

4-1. COMMON TOOLS AND EQUIPMENT.

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

4-2. SPECIAL TOOLS; TEST MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE);
AND SUPPORT EQUIPMENT.

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

4-3. REPAIR PARTS.

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

Section II. SERVICE UPON RECEIPT

Paragraph Title	Page Number
General	4-2
Inspection Instructions	4-2
Servicing Instructions	4-2

4-4. GENERAL.

When a new, used, or reconditioned semitrailer is first received, determine whether it has been properly prepared for service and is in condition to perform its mission. Follow the inspection instructions in paragraph 4-5 and servicing instructions in paragraph 4-6.

4-5. INSPECTION INSTRUCTIONS.

- a. Refer to DD Form 1397 for procedures on unpacking the semitrailer.
- b. Remove all straps, plywood, tape, seals, and wrappings.

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

- c. Remove rust preventive compound from coated exterior parts of the semitrailer using dry cleaning solvent (Item 12, Appendix E) and rags (Item 10, Appendix E).
- d. Inspect the semitrailer for damage incurred during shipment. Check also to see if the equipment has been modified.
- e. Check the equipment against the packing list to ensure that the shipment is complete. Report any discrepancies in accordance with instructions in DA Pam 738-750.

4-6. SERVICING INSTRUCTIONS.

- a. Perform all Operator/Crew and Organizational PMCS. Schedule the next PMCS on DD Form 314.
- b. Lubricate all lubrication points as described in Chapter 3, Section I, regardless of interval.
- c. Report any problems on DA Form 2407.
- d. Perform a break-in road test of 25 mi (40 km) at a maximum speed of 50 mi/h (80 km/h).

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

Paragraph Title	Page Number
General	4-3
General PMCS Procedures	4-3
Reporting Repairs	4-3
Service Intervals	4-3
Specific PMCS Procedures	4-4
Organizational Preventive Maintenance Checks and Services (PMCS), Table 4-1	4-4

4-7. GENERAL.

To ensure that the M872 Series Flatbed Semitrailers are ready for operation at all times, they must be inspected on a regular basis so that defects may be found before they result in serious damage, equipment failure, or injury to personnel. This section contains systematic instructions on inspections, adjustments, and corrections to be performed by organizational maintenance.

4-8. SERVICE INTERVALS.

Perform PMCS, found in Table 4-1, at the following intervals:

- (1) Perform Quarterly (Q) PMCS once every three months.
- (2) Perform Semiannual (S) PMCS once every six months.
- (3) Perform Annual (A) PMCS once each year.

4-9. REPORTING REPAIRS.

Report all defects and corrective actions on DA Form 2404. If a serious problem is found, report it to your supervisor immediately.

4-10. GENERAL PMCS PROCEDURES.

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

a. Keep equipment clean. Dirt, oil, and debris may cover up a serious problem. Clean as you work and as needed. Use dry cleaning solvent (Item 12, Appendix E) on all metal surfaces. Use soap (Item 5, Appendix E) and water on rubber, plastic, and painted surfaces.

b. While performing PMCS, inspect the following components:

(1) **Bolts, Nuts, and Screws.** Ensure that they are not loose, missing, bent, or broken. Tighten any that are loose.

4-10. GENERAL PMCS PROCEDURES (Con't).

(2) Welds. Inspect for gaps where parts are welded together. Report bad welds to your supervisor.

(3) Electric Wires or Connectors. Inspect for cracked or broken insulation, bare wires, and loose or broken connectors. Make repairs or replace as required.

(4) Hoses, Lines, and Fittings. Inspect for wear, damage, and leaks. Ensure that clamps and fittings are tight. If a leak originates from a loose fitting or connector, tighten it. If a component is broken or worn, correct problem if authorized by the Maintenance Allocation Chart (MAC) (Appendix B). If not authorized, report it to your supervisor.

4-11. SPECIFIC PMCS PROCEDURES.

a. Organizational PMCS are provided in Table 4-1. Always perform PMCS in the order listed. Once it becomes a habit, anything that is not right can be spotted in a minute. If anything wrong is discovered through PMCS, perform the appropriate troubleshooting task in Section IV of this chapter. If any component or system is not serviceable, or if given service does not correct problem, notify your supervisor.

b. Before performing preventive maintenance, read all the checks required for the applicable interval and prepare tools needed to make all checks. Have several clean rags (Item 10, Appendix E) handy. Perform ALL inspections at the applicable interval.

c. The columns in Table 4-1 are defined as follows:

(1) **Item No.** Provides a logical sequence for PMCS to be performed and is used as a source of item numbers for the "TM ITEM NO" column on DA Form 2404 in recording PMCS results.

(2) **Interval.** Specifies interval at which PMCS is to be performed.

(3) **Item To Be Inspected.** Lists the system and common name of items that are to be inspected.

(4) **Procedures.** Tells you how to do the required check or service.

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

Q - Quarterly

S - Semiannual

A - Annual

ITEM NO.	INTERVAL			ITEM TO BE INSPECTED	PROCEDURES
	Q	S	A		
1		•		SUSPENSION	<p>NOTE</p> <p>Perform Operator/Crew PMCS prior to or along with Organizational PMCS.</p> <p>a. Inspect springs for bent or cracked leaves, loose mounting, and worn components. Notify direct support maintenance if worn or damaged components are found.</p> <p>b. Inspect trunnion tube for looseness or wear in trunnion bracket. Notify direct support maintenance if trunnion tube is worn, grooved, or undercut by more than 0.005 in. (0.13 mm).</p>
2			•	WHEEL BEARINGS	<p>Remove hubs and wheel bearings. Clean, inspect, and pack wheel bearings (para 4-44).</p>

Table 4-1. Organizational Preventive Maintenance Checks and Services (PMCS) (Con't).

Q - Quarterly

S - Semiannual

A - Annual

ITEM NO.	INTERVAL			ITEM TO BE INSPECTED	PROCEDURES
	Q	S	A		
3				KINGPIN	a. Check for uneven wear of $\frac{1}{16}$ in. (1.6 mm) over $\frac{1}{4}$ in. (6.35 mm) of the circumference of the kingpin. b. Check for wear of $\frac{1}{16}$ in. (1.6 mm) over kingpin surface. c. Check for nicks, chips, or gouges deeper than $\frac{1}{8}$ in. (3.2 mm).
4				WHEELS AND TIRES	

Section IV. ORGANIZATIONAL TROUBLESHOOTING PROCEDURES

Paragraph Title	Page Number
Explanation of Columns	4-6
General	4-5
Troubleshooting Symptom Index...	4-6
organizational Troubleshooting, Table 4-2	4-7

4-12. GENERAL.

a. This section provides information for identifying and correcting malfunctions which may develop when operating or maintaining the semitrailer.

b. The Troubleshooting Symptom Index in paragraph 4-14 lists common malfunctions which may occur and refers you to the proper page in Table 4-2 for a troubleshooting procedure.

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

4-12. GENERAL (Con't).

d. When troubleshooting a malfunction:

(1) Question the operator to obtain any information that might help determine the cause of the problem. Before continuing, ensure that all applicable operator/crew troubleshooting was performed.

(2) Locate the symptom(s) in paragraph 4-14 that best describes the malfunction. If the appropriate symptom is not listed, notify your supervisor.

(3) Turn to the page in Table 4-2 where the troubleshooting procedures for the malfunction in question are described. Headings at the top of each page show how each troubleshooting procedure is organized: MALFUNCTION, TEST OR INSPECTION (in step number order), and CORRECTIVE ACTION.

(4) Perform each step in the order listed until the malfunction is corrected. DO NOT perform any maintenance task unless the troubleshooting procedure tells you to do so.

4-13. EXPLANATION OF COLUMNS.

The columns in Table 4-2 are defined as follows:

- (1) **MALFUNCTION.** A visual or operational indication that something is wrong with the semitrailer.
- (2) **TEST OR INSPECTION.** A procedure to isolate the problem in a component or system.
- (3) **CORRECTIVE ACTION.** A procedure to correct the problem.

4-14. TROUBLESHOOTING SYMPTOM INDEX.

	Troubleshooting Procedure Page
BRAKES	
Brakes Do Not Engage or Are Weak	4-9
Brakes Do Not Release	4-8
Brakes Drag (One or More Brakedrums Running Hot)	4-10
Brakes Engage or Release Slowly	4-9
Brakes Grab	4-10
ELECTRICAL SYSTEM	
All Lamps Fail To Light	4-7
Dim or Flickering Lights	4-8
One or More Lamps (But Not All) Fail To Light	4-7
LANDING GEAR	
Landing Gear Difficult To Raise or Lower	4-11
SUSPENSION SYSTEM	
Semitrailer Leans To One Side	4-11
Semitrailer Pulls To One Side	4-11
TIRES	
Abnormal Tire Wear	4-10

Table 4-2. Organizational Troubleshooting.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

*ELECTRICAL SYSTEM***1. ALL LAMPS FAIL TO LIGHT.****WARNING**

When troubleshooting an electrical malfunction, ALWAYS disconnect towing vehicle electrical connector from semitrailer. Failure to do so may result in serious injury or death due to electric shock.

NOTE

Refer to wiring diagrams in paragraph 4-29 to determine routing of electrical wires and location of electrical components.

- Step 1. Check for unserviceable circuit breaker on towing vehicle.
 Replace defective circuit breaker. Refer to towing vehicle technical manual for instructions.
- Step 2. Check for open circuit in wiring.
 Replace or repair wiring harness as required (para 4-27 or 4-28).
- Step 3. Check for loose connections and good ground wire contact inside nose box.
 Clean and tighten connections.
- Step 4. Check all electrical receptacles, connectors, and lamps for broken and defective components.
 Replace broken and defective components (paras 4-19 through 4-26).

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

When troubleshooting an electrical malfunction, ALWAYS disconnect towing vehicle electrical connector from semitrailer. Failure to do so may result in serious injury or death due to electric shock.

NOTE

Refer to wiring diagrams in paragraph 4-29 to determine routing of electrical wires and location of electrical components.

- Step 1. Check for broken wiring harness or loose connection.
 Tighten, replace or repair wiring harness (para 4-27 or 4-28).
- Step 2. Check for dirty or corroded lamp socket.
 Remove lamp and clean contacts and socket.

Table 4-2. Organizational Troubleshooting (Con't).

MALFUNCTION	
TEST OR INSPECTION	
CORRECTIVE ACTION	
Step 3.	Check for defective lamps. Replace defective lamps (para 4-21, 4-22, 4-23, 4-24, 4-25, or 4-26).
Step 4.	Check for defective contact in electrical receptacle or on plug of electrical connector on towing vehicle. Replace contact or electrical receptacles as required (para 4-28 or 4-19). Refer to towing vehicle technical manual to replace or repair electrical connector.
Step 5.	Check nose box resistors for proper operation. Replace faulty resistors (para 4-20).

3. DIM OR FLICKERING LIGHTS.

WARNING

When troubleshooting an electrical malfunction, ALWAYS disconnect towing vehicle electrical connector from semitrailer. Failure to do so may result in serious injury or death due to electric shock.

NOTE

Refer to wiring diagrams in paragraph 4-29 to determine routing of electrical wires and location of electrical components.

- Step 1. Check for loose, dirty, and corroded terminals.
Clean and tighten terminals.
- Step 2. Check for poor or loose ground.
Clean and tighten terminals of ground wire of electrical receptacle in nose box (para 4-20).
- Step 3. Check for defective contacts in electrical receptacle or on plug of electrical connector on towing vehicle.
Replace contact or electrical receptacles as required (para 4-28 or 4-19). Refer to towing vehicle technical manual to replace or repair electrical connector.

BRAKES

4. BRAKES DO NOT RELEASE.

- Step 1. Check for restrictions in air lines and hoses.
Remove restriction or replace defective air lines and hoses (para 4-35 or 4-36).

Table 4-2. Organizational Troubleshooting (Con't).

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
Step 2.	Check for proper operation of standard airbrake chambers.	Replace defective airbrake chamber (para 4-42).
Step 3.	Check for weak or broken brakeshoe return spring.	Replace return spring (para 4-31).
Step 4.	Check for proper service brake adjustment.	Adjust service brakes (para 4-31).
5. BRAKES DO NOT ENGAGE OR ARE WEAK.		
Step 1.	Perform air leakage test (para 4-37).	Tighten any loose fittings or repair or replace fittings as required (para 4-35 or 4-36).
Step 2.	Check for proper operation of emergency relay valve.	Replace defective emergency relay valve (para 4-43).
Step 3.	Check for presence of grease on brakeshoe linings.	Replace brakeshoes and defective oil seals (paras 4-31 and 4-44).
		Clean brakedrum (para 4-44).
Step 4.	Check for worn brakeshoe linings.	Replace brakeshoes if linings are worn within $\frac{1}{16}$ in. (1.6 mm) of rivet heads (para 4-31).
Step 5.	Check for proper service brake adjustment.	Adjust service brakes (para 4-31).
6. BRAKES ENGAGE OR RELEASE SLOWLY.		
Step 1.	Check for restrictions in air lines and hoses.	Remove restriction or replace defective air lines and hoses (para 4-35 or 4-36).
Step 2.	Check for proper operation of emergency relay valve.	Replace defective emergency relay valve (para 4-43).
Step 3.	Check for weak or broken brakeshoe return spring.	Replace return spring (para 4-31).
Step 4.	Check for proper operation of airbrake chamber.	Replace defective airbrake chamber (para 4-42).

Table 4-2. Organizational Troubleshooting (Con't).

MALFUNCTION**TEST OR INSPECTION****CORRECTIVE ACTION**

Step 5. Perform air leakage test (para 4-37).

Tighten any loose fittings or repair or replace fittings as required (para 4-35 or 4-36).

7. BRAKES GRAB.**WARNING**

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

Step 1. Check for moisture in air reservoir.

Drain air reservoir.

Step 2. Check for proper service brake adjustment.

Adjust service brakes (para 4-31).

Step 3. Check for presence of grease on brakeshoe linings and brakedrum.

Replace brakeshoes and defective oil seals (paras 4-31 and 4-44).

Clean brakedrum (para 4-44).

Step 4. Check for loose or worn wheel bearings.

Adjust or replace wheel bearings (para 4-44).

Step 5. Check for cracked, scored, or deformed brakedrum.

Replace brakedrum (para 4-44).

Step 6. Check for worn or loose brakeshoe linings.

Replace brakeshoes (para 4-31).

8. BRAKES DRAG (ONE OR MORE BRAKEDRUMS RUNNING HOT).

Step 1. Check for proper service brake adjustment.

Adjust service brakes (para 4-31).

Step 2. Check for weak or broken brakeshoe return spring.

Replace return spring (para 4-31).

Step 3. Check for out-of-round brakedrum.

Replace brakedrum (para 4-44).

TIRES**9. ABNORMAL TIRE WEAR.**

Step 1. Check for proper wheel bearing adjustment.

Adjust wheel bearings (para 4-44).

Table 4-2. Organizational Troubleshooting (Con't).

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
	Step 2. Check for worn trunnion bushing.	Replace trunnion bushing (para 4-45).
	Step 3. Check for loose or defective radius rods.	Tighten or replace radius rods (para 4-54).
10. LANDING GEAR DIFFICULT TO RAISE OR LOWER.		
	Step 1. Check for misaligned or damaged landing leg.	Replace landing leg as required (para 4-52).
	Step 2. Check for damaged gearbox.	Replace landing leg as required (para 4-52).
11. SEMITRAILER PULLS TO ONE SIDE.		
	Step 1. Check for proper service brake adjustment.	Adjust service brakes (para 4-31).
	Step 2. Check for proper wheel bearing adjustment.	Adjust wheel bearings (para 4-44).
	Step 3. Check for loose or defective radius rods.	Tighten or replace radius rods (para 4-54).
12. SEMITRAILER LEANS TO ONE SIDE.		
	Check for broken or weak spring leaves.	
	Notify direct support maintenance if replacement is required.	

Section V. GENERAL MAINTENANCE INSTRUCTIONS

Paragraph Title	Page Number
Cleaning Instructions	4-12
General	4-12
Inspection Instructions	4-13

4-15. GENERAL.

a. These general maintenance instructions contain general shop practices and specific methods you must be familiar with to properly maintain your semitrailer. You should read and understand these practices and methods before performing any organizational maintenance tasks.

b. Before beginning a task, find out how much repair, modification, or replacement is needed to fix the equipment. Sometimes the reason for equipment failure can be seen right away, and complete teardown is not necessary. Disassemble equipment only as far as necessary to repair or replace damaged or broken parts.

c. In some cases, a part may be damaged by removal. If the part appears to be good, and other parts behind it are not defective, leave it on and continue with the procedure. Here are a few simple rules:

(1) Do not remove dowel pins or studs unless loose, bent, broken, or otherwise damaged.

(2) Do not remove bearings or bushings unless damaged. If you need to remove them to access parts behind, pull bearings and bushings out carefully.

(3) Replace all gaskets, seals, and preformed packings.

d. The following "Initial Setup" information applies to all procedures:

(1) Resources are not listed unless they apply to the procedure.

(2) "Personnel Required" is listed only if more than one technician is required to complete the task.

e. All tags and forms attached to equipment must be checked to learn the reason for equipment's removal from service. Modification Work Orders (MWO) and Technical Bulletins (TB) must also be checked for equipment changes and updates.

4-16. CLEANING INSTRUCTIONS.

WARNING

Improper cleaning methods and use of unauthorized cleaning liquids or solvents can injure personnel and damage equipment. To prevent this, refer to TM 9-247 for further instructions.

a. **General.** Cleaning instructions will be the same for a majority of parts and components which makeup the semitrailer. The following should apply to all cleaning operations:

(1) Clean all parts before inspection, after repair, and before assembly.

(2) Keep hands free of grease which can collect dust, dirt, and grit.

(3) After cleaning, all parts should be covered or wrapped to protect them from dust and dirt. Parts that are subject to rust should be lightly oiled.

4-16. CLEANING INSTRUCTIONS (Con't).**b. Steam Cleaning.**

(1) Before steam cleaning exterior of semitrailer, protect all electrical equipment which could be damaged by steam or moisture.

(2) Place disassembled parts in a suitable container to steam clean. Parts that are subject to rust should be dried and lightly oiled after cleaning.

c. Castings, Forgings, and Machined Metal Parts.**WARNING**

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

(1) Clean inner and outer surfaces with dry cleaning solvent (Item 12, Appendix E).

(2) Remove grease and accumulated deposits with a scrub brush (Item 2, Appendix E).

WARNING

Compressed air used for cleaning or drying purposes, or for clearing restrictions, should never exceed 30 psi (207 kPa). Wear protective clothing (goggles/shield, gloves, etc.) and use caution to avoid injury to personnel.

(3) Clear all threaded holes with compressed air to remove dirt and cleaning fluids.

CAUTION

Do not wash oil seals, electrical cables, and flexible hoses with dry cleaning solvent or mineral spirits. Serious damage or destruction of material would result.

d. **Oil Seals, Electrical Cables, and Flexible Hoses.** Wash electrical cables and flexible hoses with a solution of soap (Item 5, Appendix E) and water and wipe dry.

e. **Bearings.** Clean bearings in accordance with TM 9-214.

4-17. INSPECTION INSTRUCTIONS.**NOTE**

All damaged areas should be marked for repair or replacement.

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

b. Inspect drilled and tapped (threaded) holes for the following:

(1) Wear, distortion, cracks, and any other damage in or around holes.

(2) Threaded areas for wear distortion (stretching) and evidence of cross-threading.

c. Inspect metal lines, flexible lines (hoses), and metal fittings for the following:

(1) Metal lines for sharp kinks, cracks, bad bends, and dents.

4-17. INSPECTION INSTRUCTIONS (Con't).

- (2) Flexible lines for fraying, evidence of leakage, and loose metal fittings or connectors.
 - (3) Metal fittings and connectors for thread damage and worn or rounded hex heads.
- d. Inspect castings, forgings, and machined metal parts for the following:
 - (1) Machined surfaces for nicks, burrs, raised metal wear, and other damage.
 - (2) Inner and outer surfaces for breaks and cracks.
- e. Inspect air lines, fittings, and connectors for leaks by performing air leakage test (para 4-37).
- f. Inspect bearings in accordance with TM 9-214.

Section VI. ELECTRICAL MAINTENANCE

Paragraph Title	Page Number
Blackout Light Maintenance	4-30
Clearance and License Light Replacement (M872)	4-25
Clearance and License Light Replacement (M872A1 and M872A2)	4-26
Clearance Light Maintenance (M872A3)	4-27
Electrical Receptacle and Toggle Switch Replacement	4-17
Junction Box Replacement (M872 and M872A3 Southwest Models Only)	4-15
Resistor and Terminal Board Replacement	4-20
Stop, Tail, and Directional Light Replacement (All Except M872 Southwest Model and M872A3)	4-22
Stop, Tail, and Directional Light Maintenance (M872 Southwest Model and M872A3)	4-23
Wiring Diagrams	4-37
Wiring Harness Repair	4-34
Wiring Harness Replacement.. . . .	4-32

4-18. JUNCTION BOX REPLACEMENT (M872 AND M872A3 SOUTHWEST MODELS ONLY).

This Task Covers:

a. Removal

b. Installation

Initial Setup:

Equipment Conditions:

- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Materials/Parts:

- Marker tags (Item 13, Appendix E)
- Two lockwashers

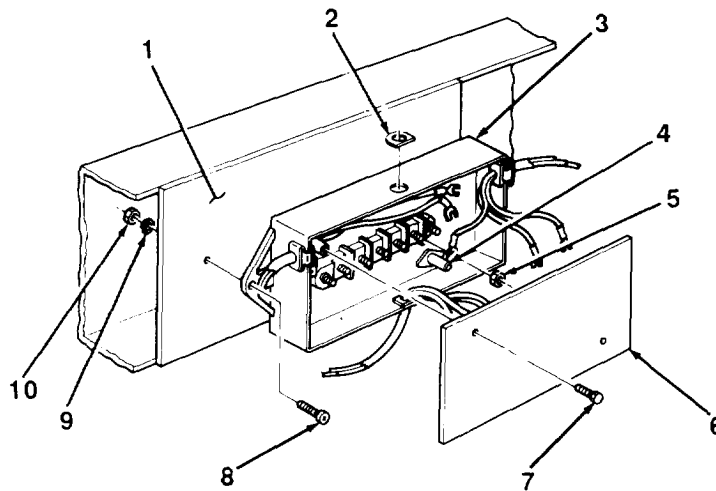
Tools/Test Equipment:

- General mechanic's tool kit
-

4-18. JUNCTION BOX REPLACEMENT (M872 AND M872A3 SOUTHWEST MODELS ONLY) (Con't).

a. REMOVAL

1. Remove two screws (7) and plate (6) from junction box (3).
2. Tag wires for installation.
3. Loosen nuts (5) and remove wires (4) from junction box (3).
4. Remove four bushings (2) from junction box (3).
5. Remove two nuts (10), lockwashers (9), screws (8), and junction box (3) from frame (1). Discard lockwashers.



b. INSTALLATION

1. Install junction box (3) on frame (1) with two screws (8), new lockwashers (9), and nuts (10).
2. Install four bushings (2) in junction box (3).
3. Position wires (4) in junction box (3) and tighten nuts (5).
4. Install plate (6) on junction box (3) with two screws (7).

FOLLOW-ON TASKS:

- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of lights.

TA507998

4-19. ELECTRICAL RECEPTACLE AND TOGGLE SWITCH REPLACEMENT.

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | b. Installation |
|------------|-----------------|

Initial Setup:

Equipment Conditions:

- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Materials/Parts:

- Marker tags (Item 13, Appendix E)
- Six lockwashers

Tools/Test Equipment:

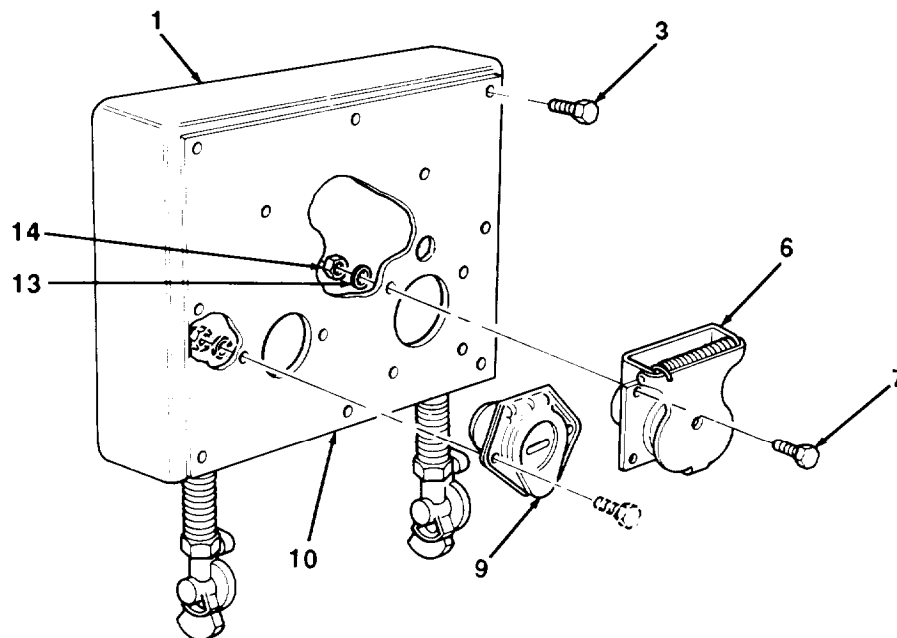
- General mechanic's tool kit

NOTE

All electrical receptacles are replaced the same way except quantity of nose box cover mounting screws and placement of electrical receptacles may vary. M872A1 is shown.

a. REMOVAL

1. Remove eight screws (3) and nose box cover (10) from nose box (1).
2. Tag and disconnect wires from 24-volt electrical receptacle (6) and 12-volt electrical receptacle (9).
3. Remove four nuts (14), lockwashers (13), screws (7), and 24-volt electrical receptacle (6) from nose box cover (10). Discard lockwashers.



TA507999

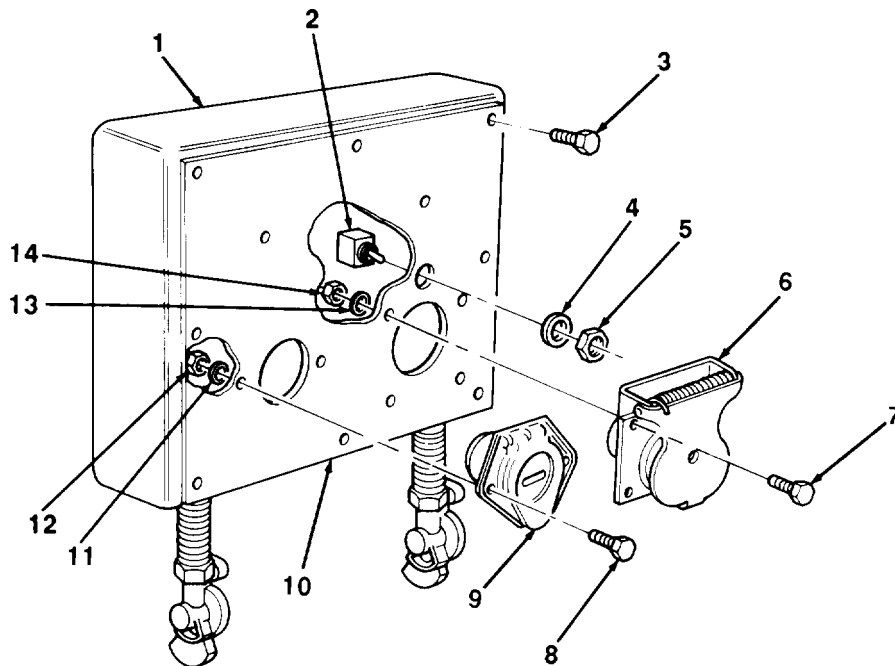
4-19. ELECTRICAL RECEPTACLE AND TOGGLE SWITCH REPLACEMENT (Con't).

4. Remove two nuts (12), lockwashers (11), screws (8), and 12-volt electrical receptacle (9) from nose box cover (10). Discard lockwashers.

NOTE

Steps 5 and 6 apply to all models except M872.

5. Tag and disconnect wires from toggle switch (2).
6. Remove nut (5), washer (4), and toggle switch (2) from nose box cover (10).



b. INSTALLATION

NOTE

Steps 1 and 2 apply to all models except M872.

1. Install toggle switch (2) on nose box cover (10) with washer (4) and nut (5).
2. Connect wires to toggle switch (2).
3. Install 12-volt electrical receptacle (9) on nose box cover (10) with two screws (8), new lockwashers (11), and nuts (12).
4. Install 24-volt electrical receptacle (6) on nose box cover (10) with four screws (7), new lockwashers (13), and nuts (14).
5. Connect wires to 12-volt electrical receptacle (9) and 24-volt electrical receptacle (6).
6. Install nose box cover (10) on nose box (1) with eight screws (3).

4-19. ELECTRICAL RECEPTACLE AND TOGGLE SWITCH REPLACEMENT (Con't).

FOLLOW-ON TASKS:

- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of lights.

4-20. RESISTOR AND TERMINAL BOARD REPLACEMENT.

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | b. Installation |
|------------|-----------------|

Initial Setup:

Equipment Conditions:

- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Materials/Parts:

- Marker tags (Item 13, Appendix E)
- Six locknuts

Tools/Test Equipment:

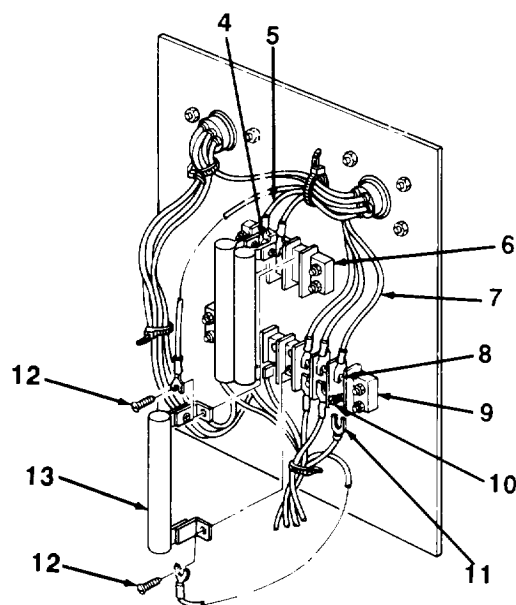
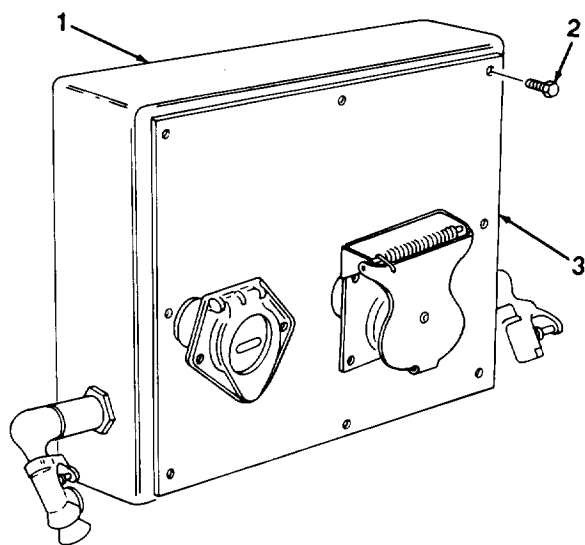
- General mechanic's tool kit

NOTE

All resistors and terminal boards are replaced the same way except quantity of screws and terminal boards and placement of resistors may vary. Number of nose box cover mounting screws will also vary.

a. REMOVAL

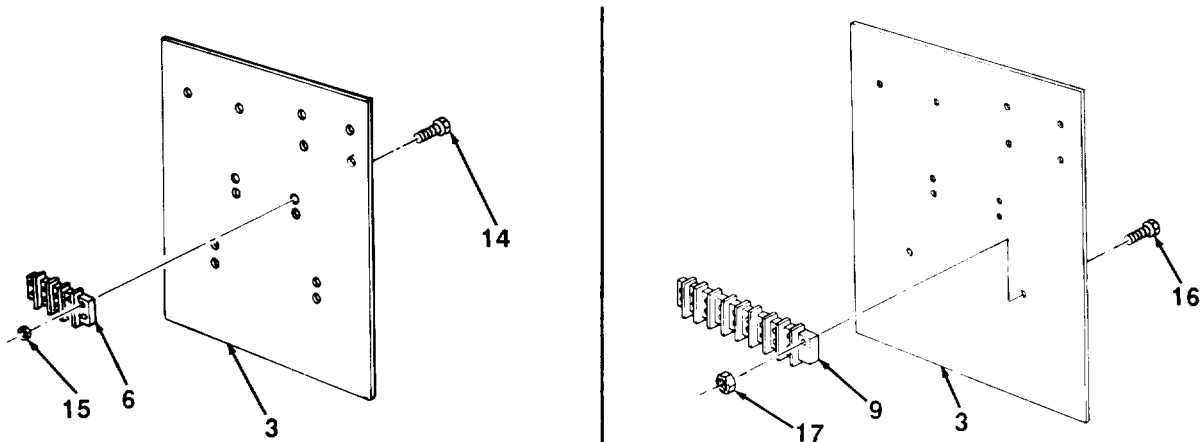
1. Remove eight screws (2) and nose box cover (3) from nose box (1).
2. Tag terminals for installation.
3. Remove two screws (12) and resistor (13) from terminal boards (6 and 9).
4. Tag and disconnect wires (5) from terminal board (6) by loosening screws (4).
5. Tag and disconnect wires (7 and 11) from terminal board (9) by loosening screws (8 and 10).



TA508001

4-20. RESISTOR AND TERMINAL BOARD REPLACEMENT (Con't).

6. Remove four locknuts (15), screws (14), and terminal board (6) from nose box cover (3). Discard locknuts.
7. Remove two locknuts (17), screws (16), and terminal board (9) from nose box cover (3). Discard locknuts.



b. INSTALLATION

1. Install terminal board (9) on nose box cover (3) with two screws (16) and new locknuts (17).
2. Install terminal board (6) on nose box cover (3) with four screws (14) and new locknuts (15).
3. Position wires (7 and 11) on terminal board (9) and tighten screws (8 and 10).
4. Position wires (5) on terminal board (6) and tighten screws (4).
5. Install resistor (13) on terminal boards (6 and 9) with two screws (12).
6. Install nose box cover (3) on nose box (1) with eight screws (2).

FOLLOW-ON TASKS:

- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of lights.

4-21. STOP, TAIL, AND DIRECTIONAL LIGHT REPLACEMENT (ALL EXCEPT M872 SOUTHWEST MODEL AND M872A3).

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | b. Installation |
|------------|-----------------|

Initial Setup:

Equipment Conditions:

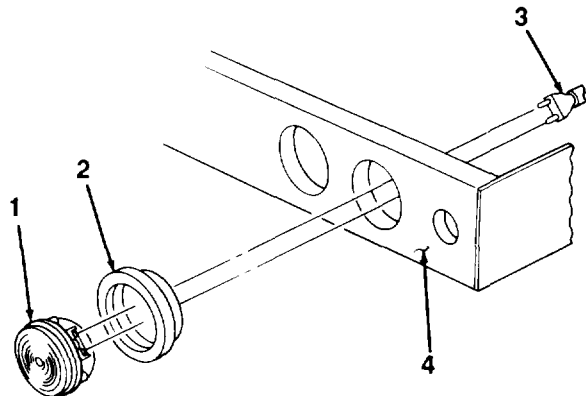
- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Tools/Test Equipment:

- General mechanic's tool kit

a. REMOVAL

1. Disconnect connector (3) from lamp (1).
2. Push lamp (1) out of grommet (2).
3. If damaged, remove grommet (2) from frame (4) and discard.



b. INSTALLATION

1. If removed, install new grommet (2) in frame (4).
2. Install lamp (1) in grommet (2).
3. Connect connector (3) to lamp (1).

FOLLOW-ON TASKS:

- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of light.

TA508003

4-22. STOP, TAIL, AND DIRECTIONAL LIGHT MAINTENANCE (M872 SOUTHWEST MODEL AND M872A3).

This Task Covers:

- | | |
|---------------------|-----------------|
| a. Lamp Replacement | c. Installation |
| b. Removal | |

Initial Setup:

Equipment Conditions:

- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Materials/Parts:

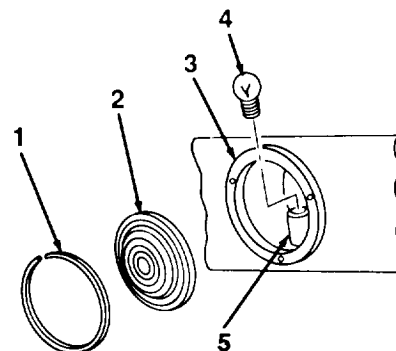
- Marker tags (Item 13, Appendix E)

Tools/Test Equipment:

- General mechanic's tool kit
- Common no. 1 shop set

a. LAMP REPLACEMENT

1. Remove snapping (1) and lens (2) from body (3).
2. Remove lamp (4) from socket (5) by pushing lamp in and turning counterclockwise.
3. Install lamp (4) in socket (5) by pushing lamp in and turning clockwise.
4. Install lens (2) and snapping (1) on body (3).

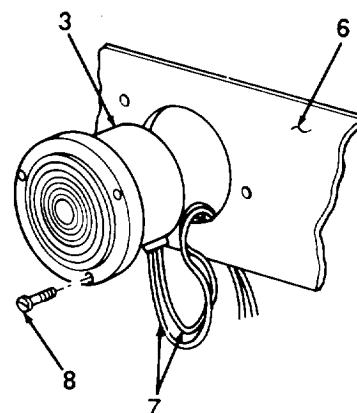


b. REMOVAL

1. Tag two wires (7) for installation. Cut wires on each side of crimping.
2. Remove 3 screws (8) and body (3) from frame (6).

c. INSTALLATION

1. Install body (3) on frame (6) with 3 screws (8).
2. Connect two wires (7) by splicing using electrical connector repair tool kit.



TA508004

4-22. STOP, TAIL, AND DIRECTIONAL LIGHT MAINTENANCE (M872 SOUTHWEST MODEL AND M872A3) (Con't).

FOLLOW-ON TASKS:

- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of light.

4-23. CLEARANCE AND LICENSE LIGHT REPLACEMENT (M872).

This Task Covers:

- a. Removal

Initial Setup:

Equipment Conditions:

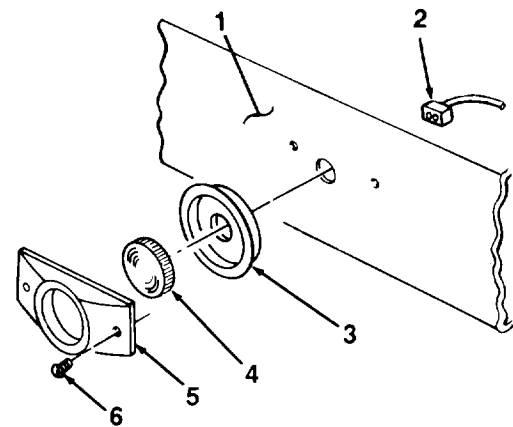
- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Tools/Test Equipment:

- General mechanic's tool kit

a. REMOVAL

1. Remove two screws (6) and mounting base (5) from frame (1).
2. Disconnect connector (2) from lamp (5).
3. Push lamp (4) out of grommet (3).
4. If damaged, remove grommet (3) from frame (1) and discard.



b. INSTALLATION

1. If removed, install new grommet (3) in frame (1).
2. Install lamp (4) in grommet (3).
3. Connect connector (2) to lamp (4).
4. Install mounting base (5) on frame (1) with two screws (6).

FOLLOW-ON TASKS:

- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of light.

TA508005

4-24. CLEARANCE AND LICENSE LIGHT REPLACEMENT (M872A1 AND M872A2).

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | b. Installation |
|------------|-----------------|
-

Initial Setup:

Equipment Conditions:

- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Materials/Parts:

- Marker tags (Item 13, Appendix E)

Tools/Test Equipment:

- General mechanic's tool kit
-

a. REMOVAL

1. Push lamp assembly (4) out of frame (1).
2. Tag and disconnect two connectors (2) from lamp assembly (4).
3. If damaged, remove grommet (3) from frame (1) and discard.

b. INSTALLATION

1. If removed, install new grommet (3) in frame (1).
2. Connect two connectors (2) to lamp assembly (4).
3. Install lamp assembly (4) in frame (1).

FOLLOW-ON TASKS:

- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of light.

TA508006

4-25. CLEARANCE LIGHT MAINTENANCE (M872A3).

This Task Covers:

- | | |
|---------------------|-----------------|
| a. Lamp Replacement | c. Installation |
| b. Removal | |
-

Initial Setup:

Equipment Conditions:

- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Materials/Parts:

- One lockwasher

Tools/Test Equipment:

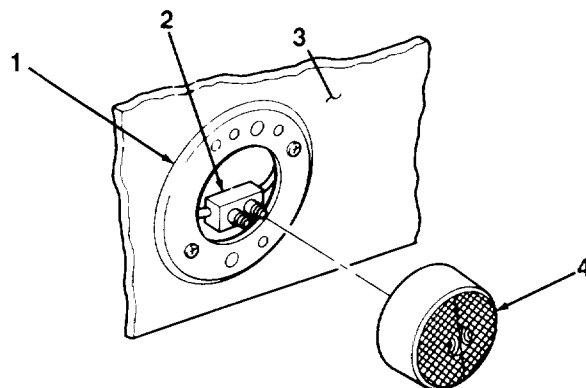
- General mechanic's tool kit
-

a. LAMP REPLACEMENT

NOTE

Clearance lamps are replaced the same way except rear clearance lights located on mount bar do not have a mounting plate.

1. Turn lamp assembly (4) counterclockwise and remove from mounting plate (1).
2. Disconnect connector (2) from lamp assembly (4).
3. Connect connector (2) to lamp assembly (4).
4. Install lamp assembly (4) on mounting plate (1) on framerail (3).



TA508007

4-25. CLEARANCE LIGHT MAINTENANCE (M872A3) (Con't).

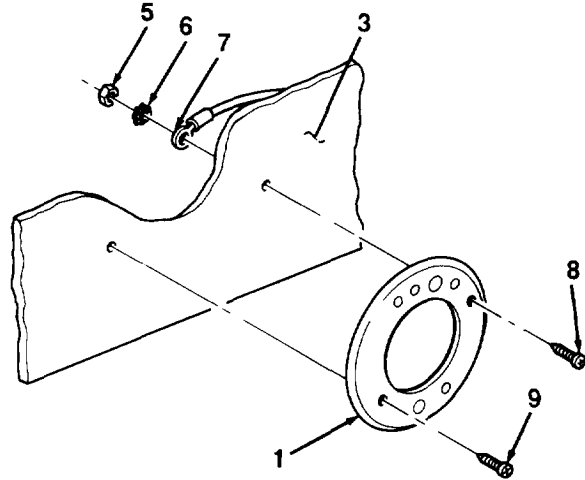
b. REMOVAL

1. Remove lamp assembly from framerail (subpara a).

NOTE

Step 2 applies to all clearance lights except rear clearance lights located on mount bar.

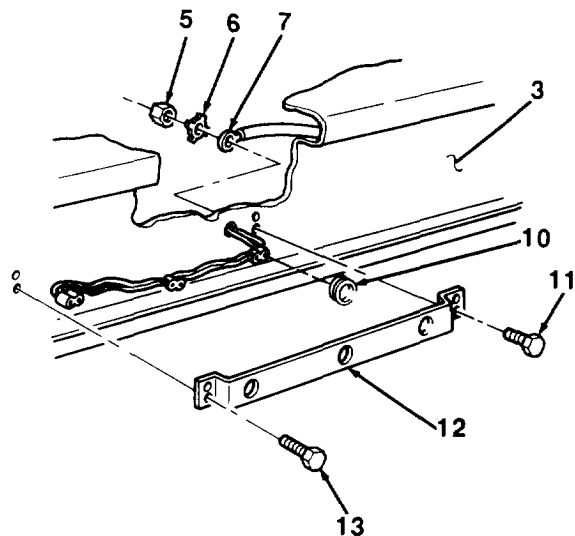
2. Remove nut (5), washer (6), ground wire (7), two screws (8 and 9), and mounting plate (1) from framerail (3). Discard lockwasher.



NOTE

Steps 3 and 4 apply only to rear clearance lights located on mount bar.

3. Remove nut (5), washer (6), ground wire (7), four screws (11 and 13), and mount bar (12) from framerail (3). Discard lockwasher.
4. Remove grommet (10) from framerail (3). Discard grommet if damaged.



NOTE

Steps 1 through 4 apply only to rear clearance lights located on mount bar.

1. Install grommet (10) in framerail (3).
2. Install lamp assembly on mount bar (12) (subpara a).
3. Install mount bar (12) on framerail (3) with four screws (11 and 13).
4. Position ground wire (7) on screw (11) and install washer (6) and nut (5).

TA508008

4-25. CLEARANCE LIGHT MAINTENANCE (M872A3) (Con't).

NOTE

Steps 5 through 7 apply to all clearance lights except rear clearance lights located on mount bar.

5. Install mounting plate (1) on framerail (3) with two screws (8 and 9).
6. Position ground wire (7) on screw (8) and install washer (6) and nut (5).
7. Install lamp assembly on framerail (3) (subpara a).

FOLLOW-ON TASKS:

- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of lights.

4-26. BLACKOUT LIGHT MAINTENANCE.

This Task Covers:

- | | |
|---------------------|-----------------|
| a. Lamp Replacement | c. Installation |
| b. Removal | |

Initial Setup:

Equipment Conditions:

- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Materials/Parts:

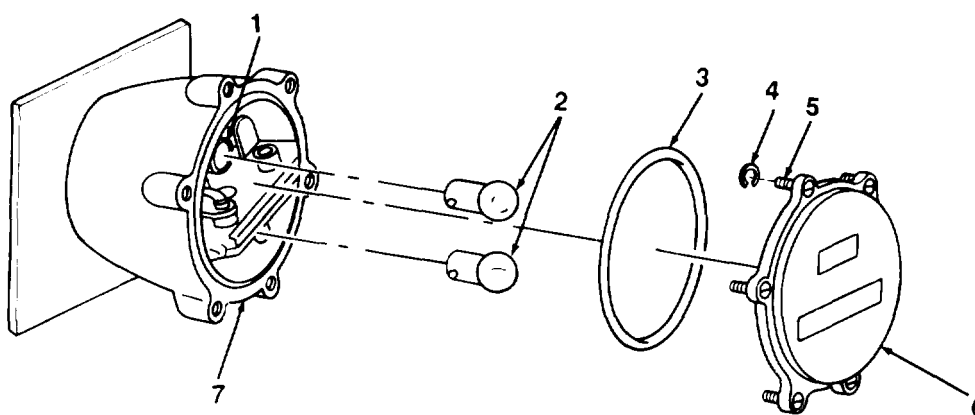
- Marker tags (Item 13, Appendix E)
- Eight lockwashers

Tools/Test Equipment:

- General mechanic's tool kit

a. LAMP REPLACEMENT

1. Loosen six screws (5) and remove door (6) and six lockwashers (4) from body (7). Discard lockwashers.
2. Inspect preformed packing (3) for damage. If damaged, remove and discard.
3. Remove two lamps (2) from sockets (1) by pushing lamps in and turning counterclockwise.
4. Install two lamps (2) in sockets (1) by pushing lamps in and turning clockwise.
5. If removed, install new preformed packing (3) in door (6).
6. Install six new lockwashers (4) on screws (5).
7. Install door (6) on body (7) and tighten six screws (5).



TA508009

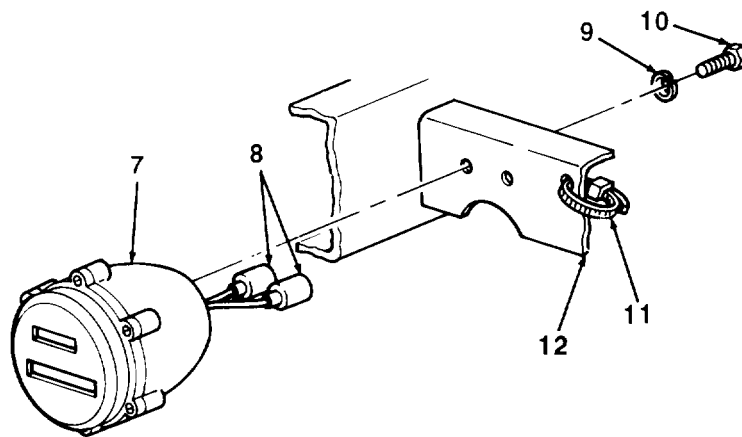
4-26. BLACKOUT LIGHT MAINTENANCE (Con't).

b. REMOVAL

1. Tag and disconnect two connectors (8) from wiring harness.

NOTE**Step 2 applies only to M872A3.**

2. Remove plastic strap (11) from connectors (8) and bracket (12).
3. Remove two screws (10), lockwashers (9), and body (7) from bracket (12). Discard lockwashers.

**c. INSTALLATION**

1. Insert two connectors (8) through hole in bracket (12).
2. Install body (7) on bracket (12) with two new lockwashers (9) and screws (10).
3. Connect two connectors (8) to wiring harness.

NOTE**Step 4 applies only to M872A3.**

4. Install plastic strap (11) on connectors (8) and bracket (12).

FOLLOW-ON TASKS:

- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of light.

TA508010

4-27. WIRING HARNESS REPLACEMENT

This Task Covers:

- | | |
|--|---|
| a. Main Wiring Harness Removal | f. Main Wiring Harness Installation |
| b. Front Wiring Harness Removal | g. Front Wiring Harness Installation |
| c. Intermediate Wiring Harness Removal | h. Intermediate Wiring Harness Installation |
| d. Rear Wiring Harness Removal | i. Rear Wiring Harness Installation |
| e. Cleaning and Inspection | |
-

Initial Setup:

Equipment Conditions:

- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Materials/Parts:

- Marker tags (Item 13, Appendix E)

Tools/Test Equipment:

- General mechanic's tool kit
 - Common no. 1 shop set
-

NOTE

Refer to wiring diagrams in paragraph 4-29 for assistance in wiring harness replacement.

a. MAIN WIRING HARNESS REMOVAL

1. Tag main wiring harness wires for installation.
2. Disconnect main wiring harness wires from receptacles in nose box.
3. Disconnect main wiring harness wires from stop, tail, directional, and license lights and to front wiring harness.
4. Remove main wiring harness from clamps.
5. Remove main wiring harness from semitrailer.

b. FRONT WIRING HARNESS REMOVAL

1. Tag front wiring harness wires for installation.
2. Disconnect terminal lugs from clearance lights and intermediate wiring harness.
3. Remove front wiring harness from clamps.
4. Remove front wiring harness from semitrailer.

c. INTERMEDIATE WIRING HARNESS REMOVAL

1. Tag intermediate wiring harness wires for installation.
2. Disconnect intermediate wiring harness wires from clearance lights and rear wiring harness.
3. Remove intermediate wiring harness from clamps.
4. Remove intermediate wiring harness from semitrailer.

4-27. WIRING HARNESS REPLACEMENT (Con't).

d. REAR WIRING HARNESS REMOVAL

1. Tag rear wiring harness wires for installation.
2. Disconnect rear wiring harness wires from clearance, stop, tail, and directional, and license light assemblies.
3. Remove rear wiring harness from clamps.
4. Remove rear wiring harness from semitrailer.

e. CLEANING AND INSPECTION

1. Clean wiring harnesses and connectors with water and allow to air dry thoroughly.
2. Inspect wiring harnesses and connectors for wear and damage.
3. Inspect wiring harnesses for frayed areas and replace missing or defective components.
4. Replace damaged or defective connectors or terminals (para 4-28).

f. MAIN WIRING HARNESS INSTALLATION

1. Connect main wiring harness wires to receptacles in nose box.
2. Connect main wiring harness wires to stop, tail, directional, and license lights.
3. Secure main wiring harness in clamps on semitrailer.

g. FRONT WIRING HARNESS INSTALLATION

1. Connect front wiring harness wires to clearance lights and main wiring harness.
2. Secure front wiring harness in clamps on semitrailer.

h. INTERMEDIATE WIRING HARNESS INSTALLATION

1. Connect intermediate wiring harness wires to clearance lights and front wiring harness.
2. Secure intermediate wiring harness in clamps on semitrailer.

i. REAR WIRING HARNESS INSTALLATION

1. Connect rear wiring harness wires to clearance, stop, tail, and directional, and license light assemblies and to intermediate wiring harness.
2. Secure rear wiring harness in clamps on semitrailer.

FOLLOW-ON TASKS:

- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of lights.

4-28. WIRING HARNESS REPAIR.

This Task Covers:

- | | |
|----------------------------|-------------------------|
| a. Terminal Replacement | d. Plug Assembly Repair |
| b. Male Connector Repair | e. Receptacle Repair |
| c. Female Connector Repair | |

Initial Setup:

Equipment Conditions:

- Towing vehicle electrical connector disconnected from semitrailer (para 2-18).

Materials/Parts:

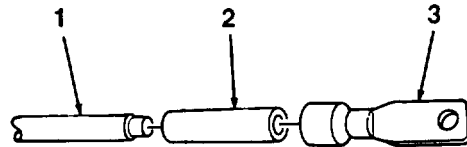
- Contacts (as required)
- Terminals (as required)

Tools/Test Equipment:

- General mechanic's tool kit
- Common no. 2 shop set

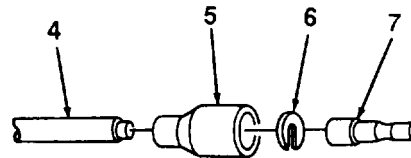
a. TERMINAL REPLACEMENT

1. Cut terminal (3) off wire (1). Discard terminal.
2. Strip insulation off wire (1) equal to depth of new terminal (3).
3. Slide insulator (2) on wire (1).
4. Position new terminal (3) on wire (1). Crimp terminal.
5. Slide insulator (2) over crimped end of terminal (3).



b. MALE CONNECTOR REPAIR

1. Slide shell (5) back and remove washer (6) from wire (4). Cut ferrule (7) from cable. Discard ferrule. Remove shell.
2. Strip insulation off wire (4) equal to depth of new ferrule (7).
3. Slide shell (5) on wire (4).
4. Position new ferrule (7) on wire (4) and crimp.
5. Position washer (6) on wire (4) near crimping. Slide shell (5) over washer and ferrule (7).

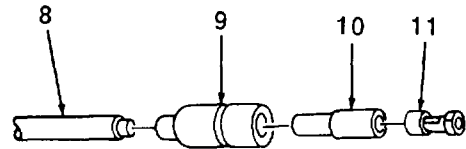


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4-28. WIRING HARNESS REPAIR (Con't).

c. FEMALE CONNECTOR REPAIR

1. Slide shell (9) and sleeve (10) back and cut terminal (11) from wire (8). Discard terminal.
2. Remove sleeve (10) and shell (9) from wire (8).
3. Strip insulation off wire (8) equal to depth of new terminal (11).
4. Slide shell (9) and sleeve (10) on wire (8).
5. Position new terminal (11) on wire (8) and crimp.
6. Slide sleeve (10) and shell (9) over terminal (11).

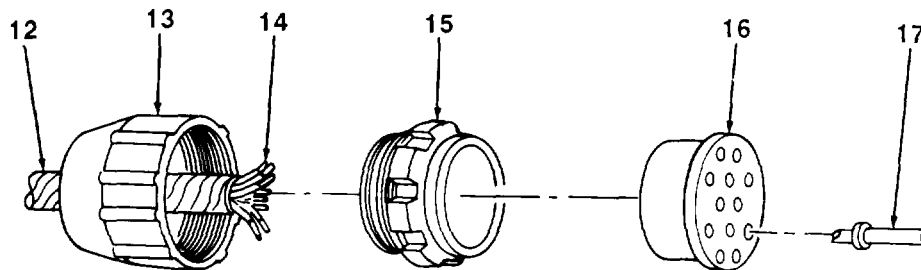


d. PLUG ASSEMBLY REPAIR

NOTE

Male and female inserts are replaced the same way. This procedure covers male insert replacement.

1. Remove coupling nut (15) from grommet retaining nut (13).
2. Remove grommet (16) from coupling nut (15). Cut insert (17) from wire (14). Discard insert.
3. Remove grommet (16), coupling nut (15), and grommet retaining nut (13) from cable (12).
4. Strip insulation off wire (14) equal to depth of new insert (17).
5. Thread cable (12) through grommet retaining nut (13), coupling nut (15), and grommet (16).
6. Position new insert (17) on wire (14) and solder.
7. Press grommet (16) into coupling nut (15) until seated.
8. Install coupling nut (15) on grommet retaining nut (13).



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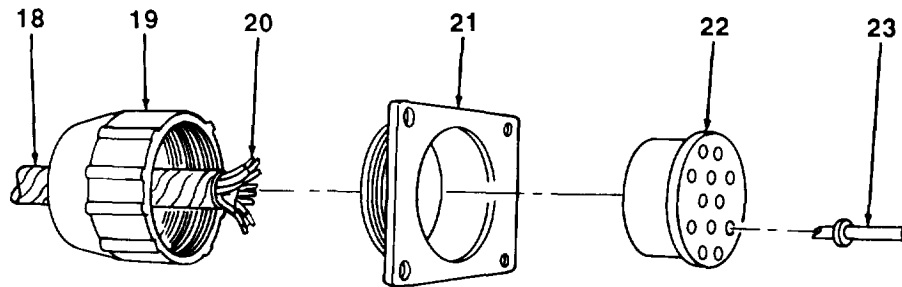
4-28. WIRING HARNESS REPAIR (Con't).

e. RECEPTACLE REPAIR

NOTE

Male and female inserts are replaced the same way. This procedure covers male insert replacement.

1. Remove receptacle (21) from grommet retaining nut (19).
2. Remove grommet (22) from receptacle (21). Cut insert (23) from wire (20).
3. Remove grommet (22), receptacle (21), and grommet retaining nut (19) from cable (18).
4. Strip insulation off wire (20) equal to depth of new insert (23).
5. Thread cable (18) through grommet retaining nut (19), receptacle (21), and grommet (22).
6. Position new insert (23) on wire (20) and solder.
7. Press grommet (22) into receptacle (21) until seated.
8. Install receptacle (21) on grommet retaining nut (19).



FOLLOW-ON TASKS:

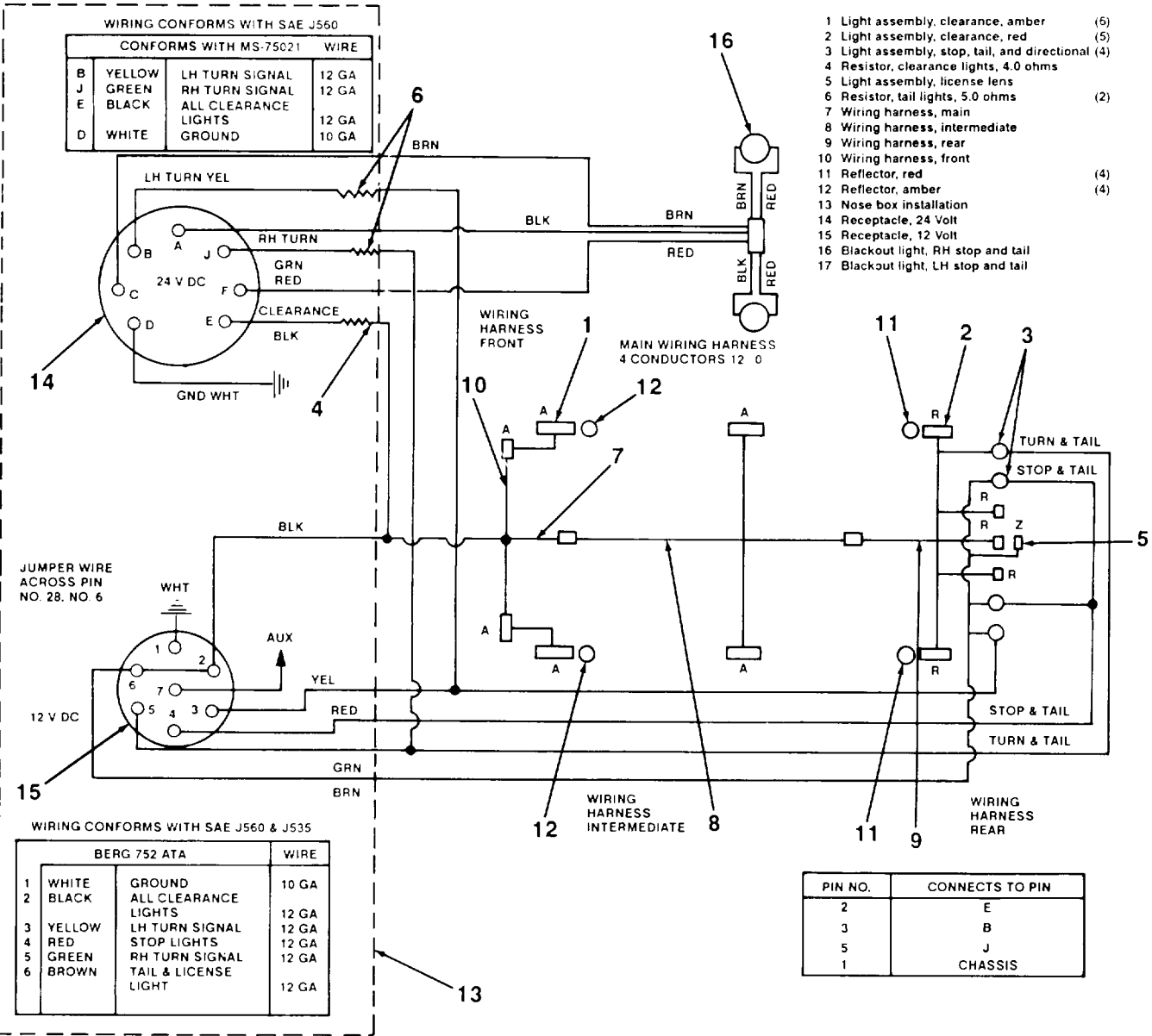
- Connect towing vehicle electrical connector to semitrailer (para 2-10).
- Check operation of lights.

TA508013

4-29. WIRING DIAGRAMS.

NOTE

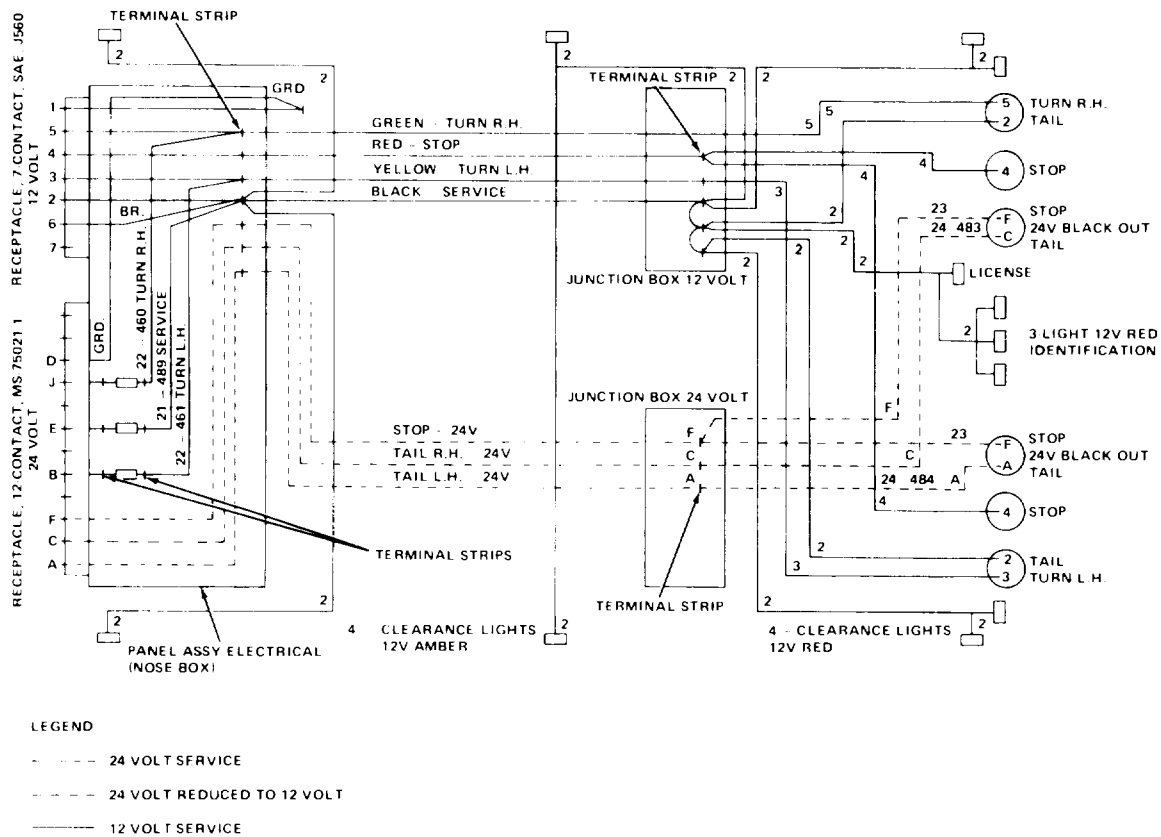
This paragraph contains the semitrailer wiring diagrams. Refer to these diagrams when performing electrical troubleshooting and when performing electrical repair and maintenance.



M872 (THEURER)

TA508014

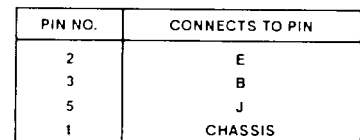
4-29. WIRING DIAGRAMS (Con't).



M872 (SOUTHWEST)

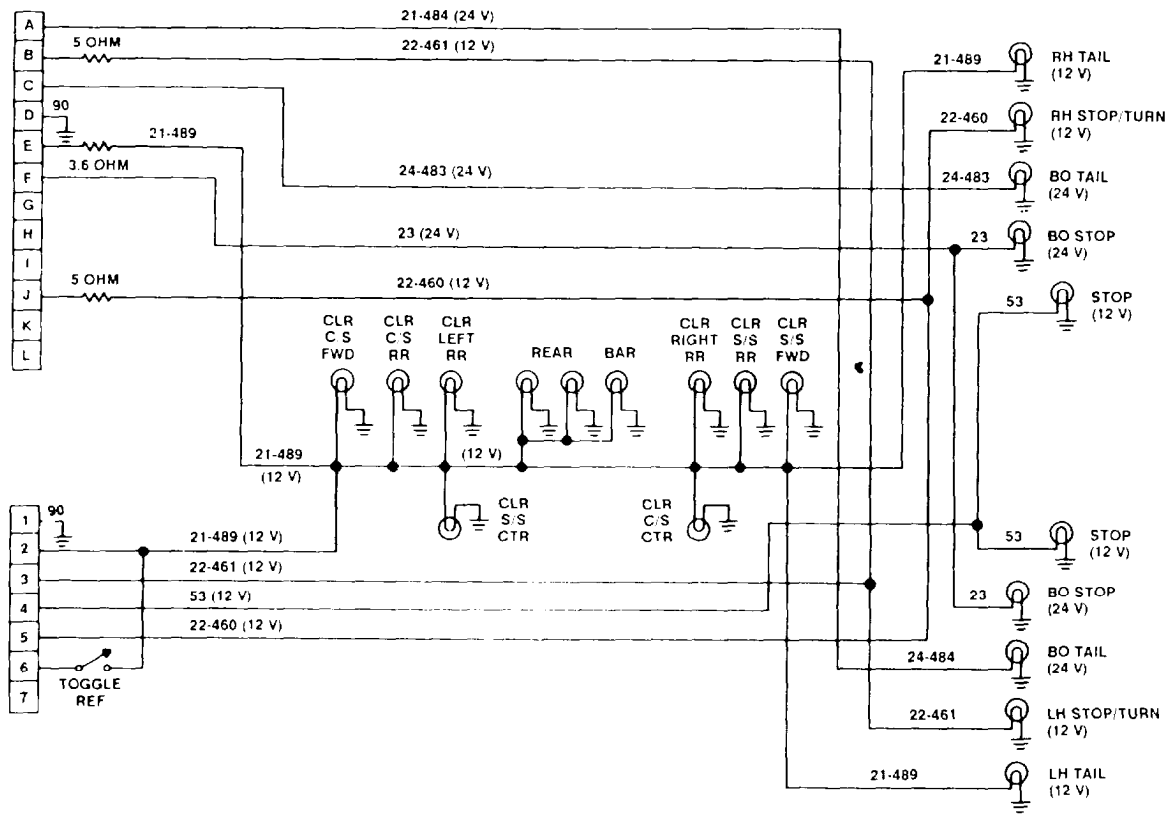
TA508015

M872A1 (THEURER AND HELLER)



M872A2 (THEURER AND HELLER)

4-29. WIRING DIAGRAMS (Con't).



M872A3 (SOUTHWEST)

Section VII. AXLE MAINTENANCE

4-30. AXLE MAINTENANCE.

This Task Covers:

- | | |
|---|--|
| <ul style="list-style-type: none"> a. Front and Rear Axle Removal b. Center Axle Removal c. Center Axle Installation | <ul style="list-style-type: none"> d. Front and Rear Axle Installation e. Axle Alinement |
|---|--|

Initial Setup:

Equipment Conditions:

- Hubs and brakedrums removed (para 4-44).
- Brakeshoes removed (para 4-31).
- Camshafts removed (para 4-32 or 4-33).
- Airbrake chambers removed (para 4-42).
- Slack adjusters removed (para 4-34).
- Radius rods removed (para 4-54).

Materials/Parts:

- Eight locknuts

Tools/Test Equipment:

- General mechanic's tool kit
- Floor jack

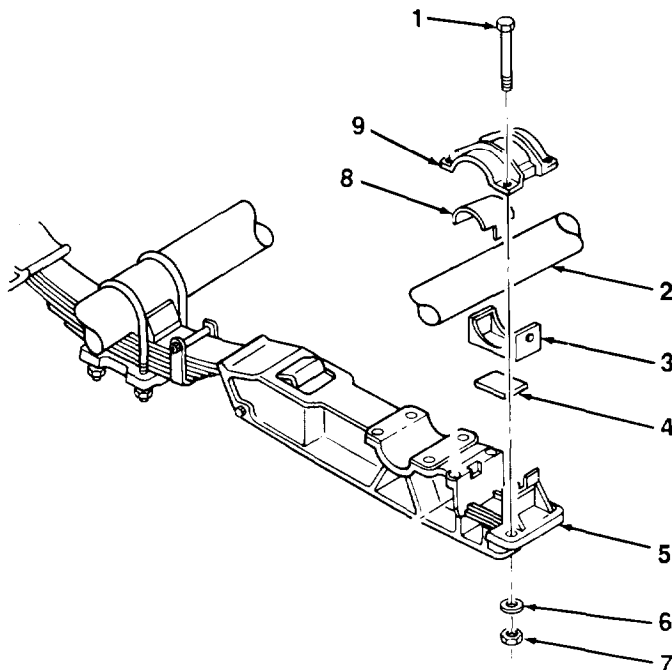
Personnel Required: Two

a. FRONT AND REAR AXLE REMOVAL

NOTE

Front and rear axles are removed the same way.

1. Raise semitrailer and remove jackstand from under axle (2), Position jackstand under axle not being removed.
2. Remove eight locknuts (7), washers (6), screws (1), two axle end caps (9), and rubber wrappers (8) from axle (2) and equalizing beam (5). Discard locknuts.
3. Remove axle (2), two axle adapters (3), and rubber pads (4) from equalizing beam (5).

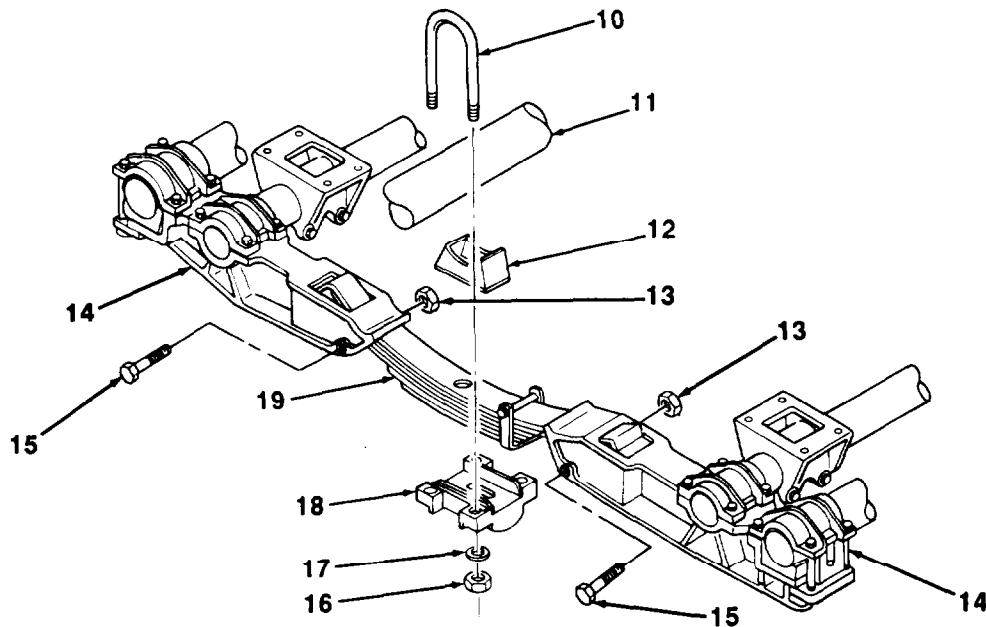


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4-30. AXLE MAINTENANCE (Con't).

b. CENTER AXLE REMOVAL

1. Raise semitrailer and remove jackstand from under axle (11). Position jackstand under axle not being removed.
2. Remove two nuts (13) and bolts (15) from two equalizing beams (14) and springs (19). Lower axle (11) and remove from under trailer.
3. Remove eight locknuts (16), washers (17), two spring clamps (18), and four U-bolts (10) from axle (11). Discard locknuts.
4. Remove axle (11) and two spring seats(12) from springs (19).



c. CENTER AXLE INSTALLATION

1. Position two spring seats (12) and axle (11) on springs (19).
2. Install four U-bolts (10) and two spring clamps (18) on axle (11) with eight washers (17) and new locknuts (16).
3. Position axle (11) under trailer and install two bolts(15) and nuts(13) on equalizing beams (14) and springs (19).

d. FRONT AND REAR AXLE INSTALLATION

NOTE

Front and rear axles are installed the same way.

1. Position two rubber pads (4), axle adapters (3), and axle (2) on equalizing beam (5).
2. Position two rubber wrappers (8) and axle end caps (9) on axle(2). Install eight screws (1), washers(6), and new locknuts (7).
3. Install radius rods and slack adjusters (para 4-54 and 444).
4. Install failsafe and standard airbrake chambers (para 4-42).

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4-30. AXLE MAINTENANCE (Con't).

5. Install camshafts and brakeshoes (para 4-32 or 4-33 and para 4-31).
6. Install hubs and brakedrums (para 4-44), but do not install outer wheels.

e. AXLE ALINEMENT

NOTE

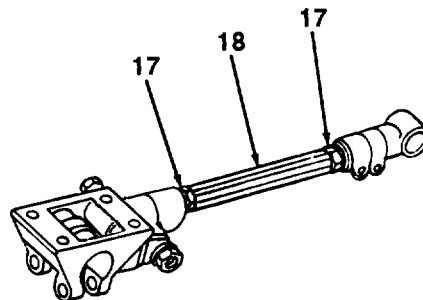
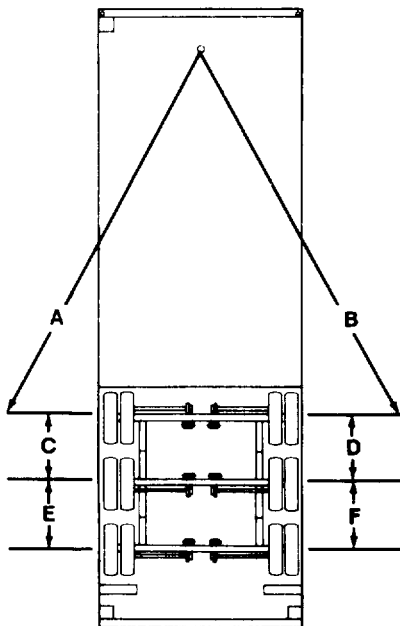
Ensure that semitrailer is unloaded and level from side to side and from front to rear.

1. Measure distances "A" and "B" from kingpin to axle spindles. Measurements should be within $\frac{1}{8}$ in. (3.2 mm) of each other.
2. Measure distances "C" and "D" between axle spindles. Measurements should be within $\frac{1}{8}$ in. (3.2 mm) of each other.
3. Measure distances "E" and "F" between axle spindles. Measurements should be within $\frac{1}{8}$ in. (3.2 mm) of each other.

NOTE

Perform step 4 if improper measurements were obtained in steps 1 through 3.

4. Loosen two nuts (17) on radius rod (18) and turn radius rod to adjust. Ensure that nuts are tightened when alinement is obtained.
5. if true alinement cannot be obtained, inspect and replace worn or bent suspension parts, or replace affected axle (para 4-30, 5-11, 4-54, or 5-12).
6. Install outer wheels (para 4-46).



TA706577 ■

Section VIII. BRAKE SYSTEM MAINTENANCE

Paragraph Title	Page Number
Air Coupling Maintenance (M872)	4-67
Air Coupling Maintenance (M872A1 and M872A2)	4-69
Air Coupling Maintenance (M872A3)	4-71
Air Leakage Test	4-66
Air Lines, Hoses, and Fittings Maintenance (All Except M872A3)	4-56
Air Lines, Hoses, and Fittings Maintenance (M872A3)	4-60
Air Reservoir Replacement	4-74
Camshaft Replacement (All Except M872A3)	4-49
Camshaft Replacement (M872A3).	4-52
Emergency Relay Valve Replacement	4-79
Service Brake Maintenance.	4-45
Slack Adjuster Replacement	4-54
Standard and Failsafe Airbrake Chambers Maintenance	4-76

4-31. SERVICE BRAKE MAINTENANCE.

This Task Covers:

- | | |
|--|--|
| <ul style="list-style-type: none"> a. Removal b. Cleaning and Inspection | <ul style="list-style-type: none"> c. Installation d. Adjustment |
|--|--|

Initial Setup:

Equipment Conditions:

- Wheels chocked.
- Hub and brakedrum removed (para 4-44).

Materials/Parts:

- Dry cleaning Drycleaning solvent (item 12, Appendix E)

Tools/Test Equipment:

- General mechanic's tool kit
- Floor jack
- Jackstand
- Retaining ring pliers

4-31. SERVICE BRAKE MAINTENANCE (Con't).

a. REMOVAL

WARNING

DO NOT handle brakeshoes, brakedrums, or other brake components unless area has been properly cleaned. There may be asbestos dust on these components which can be dangerous if you touch it or breathe it. Wear an approved filter mask and gloves. Never use compressed air or a dry brush to clean brake components. Dust may be removed using an industrial-type vacuum cleaner. Clean dust or mud away from brake components with water and a wet, soft brush or cloth. Failure to follow this warning may result in serious illness or death to personnel.

1. Remove return spring (11) from brakeshoes (2 and 10).

NOTE

Step 2 applies to all models except M872A3.

2. Remove two retaining rings (3) and washers (4) from anchor pins (5). Push anchor pins out of brakeshoes (2 and 10).

NOTE

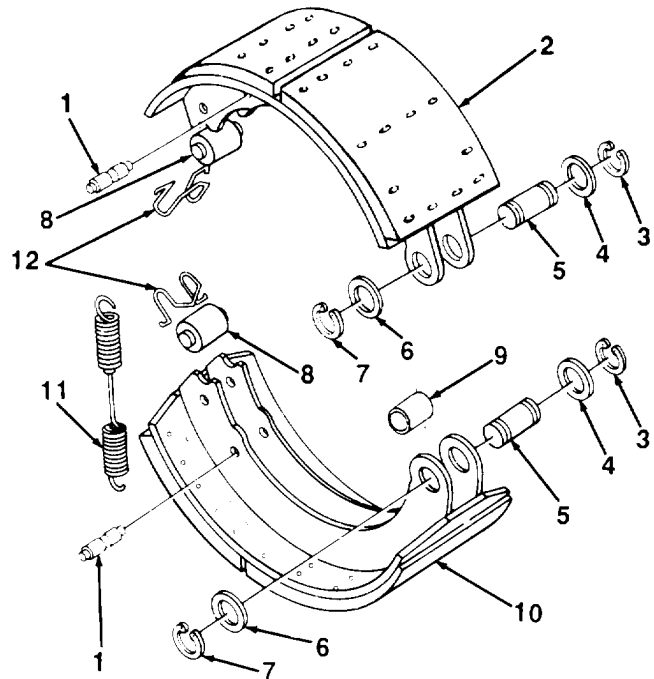
Step 3 applies only to M872A3.

3. Remove two retaining rings (3) and washers (4) from anchor pins (5). Push anchor pins and two bushings (9) out of brakeshoes (2 and 10).
4. Remove two retaining rings (7) and washers (6) from anchor pins (5),
5. Remove two retainers (12) and rollers (8) from brakeshoes (2 and 10).
6. Remove brakeshoes (2 and 10) from spider.

NOTE

Step 7 applies to all models except M872A3.

7. Remove two pins (1) from brakeshoes (2 and 10).



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4-31. SERVICE BRAKE MAINTENANCE (Con't).

b. CLEANING AND INSPECTION]

WARNING

- DO NOT handle brakeshoes, brakedrums, or other brake components unless area has been properly cleaned. There maybe asbestos dust on these components which can be dangerous if you touch it or breathe it. Wear an approved filter mask and gloves. Never use compressed air or a dry brush to clean brake components, Dust may be removed using an industrial-type vacuum cleaner. Clean dust or mud away from brake components with water and a wet, soft brush or cloth. Failure to follow this warning may result in serious illness or death to personnel.
 - Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.
1. Clean all parts with dry cleaning solvent. Dry thoroughly.
 2. Inspect all parts for damage. Replace any damaged parts.
 3. Inspect brakeshoe linings. Notify direct support maintenance if linings are worn within $\frac{1}{16}$ in. (1.6 mm) of rivet heads.

c. INSTALLATION

NOTE

Step 1 applies to all models except M872A3.

1. Install two pins (1) in brakeshoes (2 and 10).
2. Position brakeshoes (2 and 10) on spider.
3. Install two rollers (8) on brakeshoes (2 and 10) with retainers (12).
4. Install two washers (6) and retaining rings (7) on anchor pins (5).

NOTE

Step 4 applies to all models except M872A3.

5. Install two anchor pins (5) in brakeshoes (2 and 10) with two washers (4) and retaining rings (3).

NOTE

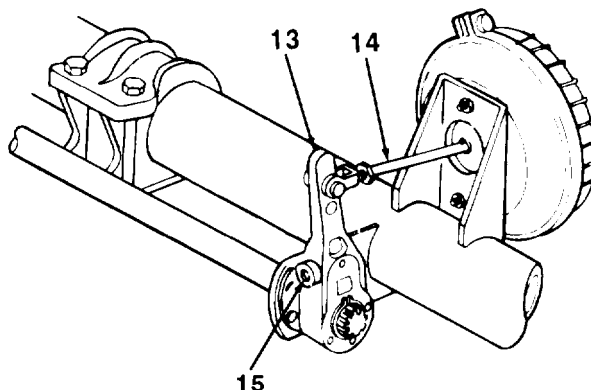
Step 5 applies only to M872A3.

6. Install two bushings (9), anchor pins (5), washers (4), and retaining rings (3) in brakeshoes (2 and 10).
7. Install return spring (11) on brakeshoes (2 and 10).
8. Install hub and brakedrum (para 4-44).

4-31. SERVICE BRAKE MAINTENANCE (Con't).

d. ADJUSTMENT

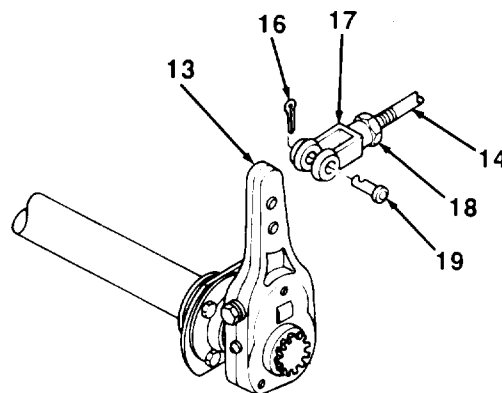
1. Raise semitrailer until wheel clears ground.
2. Rotate wheel and turn adjusting screw (15) counterclockwise until brakeshoes are tight against brakedrum and wheel will not turn.
3. Turn adjusting screw (15) clockwise approximately $\frac{1}{4}$ – $\frac{1}{2}$ turn until drag is no longer felt when wheel is turned.
4. With brakes applied, measure angle between pushrod (14) and slack adjuster (13). Measurement should be slightly greater than 90° .



NOTE

Perform steps 5 through 10 if angle between pushrod and slack adjuster is incorrect. If correct, service brake is adjusted and task ends here.

5. Release brakes.
6. Remove cotter pin (16), clevis pin (19), and disconnect clevis (17) from slack adjuster (13).
7. Loosen pushrod locknut (18) and turn yoke counterclockwise to increase, or clockwise to decrease angle.
8. Position clevis (17) on slack adjuster (13) and install clevis pin (19).
9. With brakes applied, measure angle between slack adjuster (13) and pushrod (14). If angle is greater than 90° , tighten pushrod locknut (18) and install cotter pin (16) in clevis pin (19). If angle is still incorrect, repeat steps 5 through 8 until the correct angle is obtained.
10. Repeat steps 2 and 3.



TA508023

4-32. CAMSHAFT REPLACEMENT (ALL EXCEPT M872A3).

This Task Covers:

- | | |
|----------------------------|-----------------|
| a. Removal | c. Installation |
| b. Cleaning and Inspection | |
-

Initial Setup:

Equipment Conditions:

- Wheels chocked.
- Brakeshoes removed (para 4-31).
- Slack adjuster removed (para 4-34).

Tools/Test Equipment

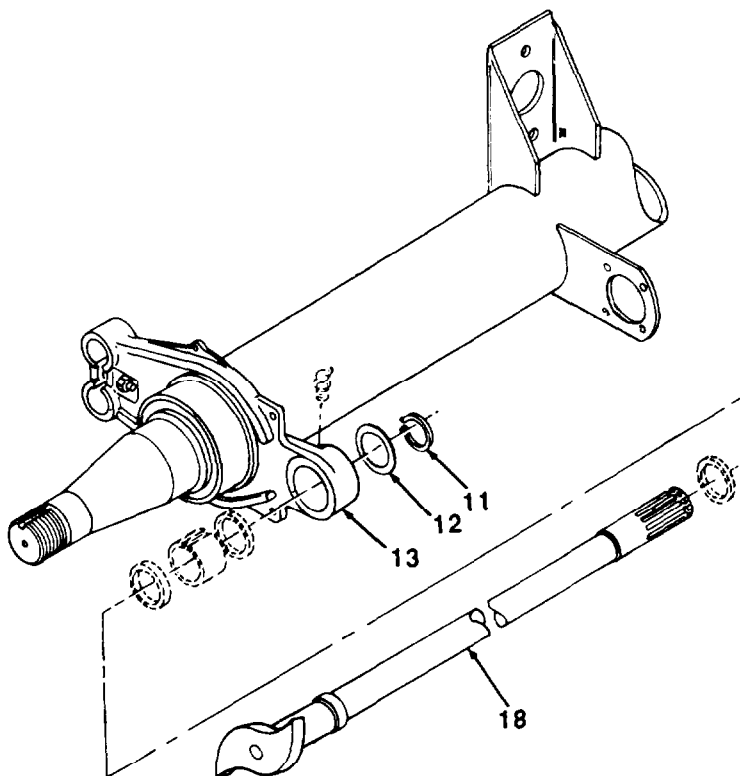
- General mechanic's tool kit
- Retaining ring pliers

Materials/Parts:

- One retaining ring
 - Two O-rings
 - Two preformed packings
 - Four lockwashers
 - Wire brush (Item 3, Appendix E)
 - Dry cleaning solvent (Item 12, Appendix E)
-

a. REMOVAL

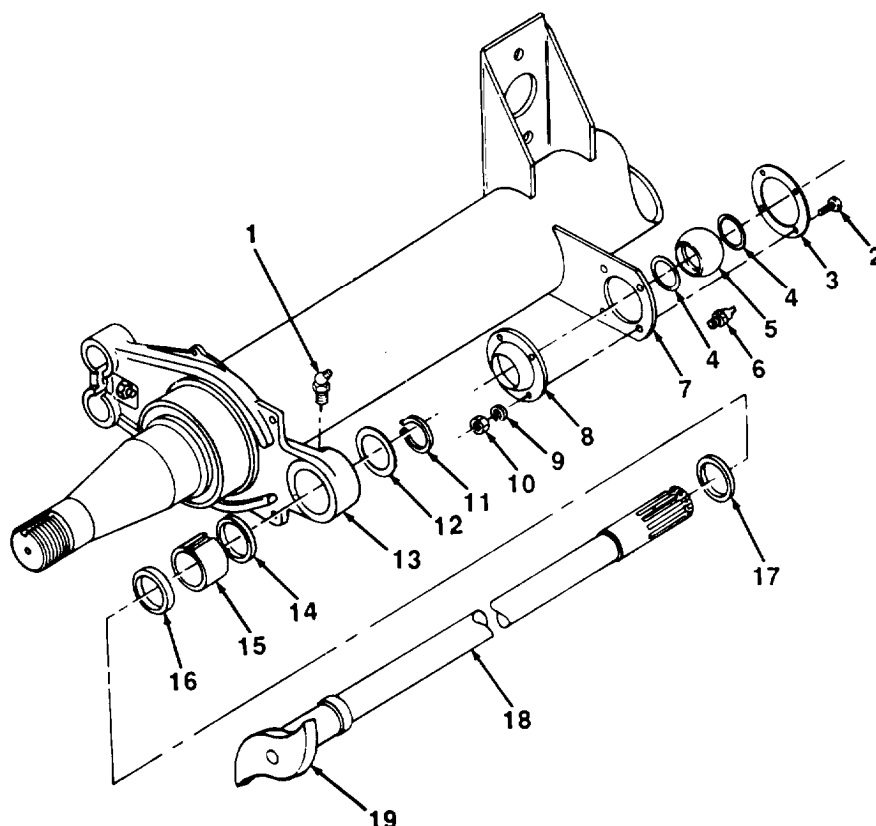
1. Remove retaining ring (11) and washer (12) from camshaft (18). Slide camshaft out of spider (13). Discard retaining ring.



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4-32. CAMSHAFT REPLACEMENT (ALL EXCEPT M872A3) (Con't).

2. Remove two preformed packings (14 and 16) and washer (17) from camshaft (18). Discard preformed packings.
3. Drive bushing (15) out of spider (13). Remove lubrication fitting (1) from spider.
4. Remove four nuts (10), lockwashers (9), screws (2), retainers (3 and 8), two O-rings (4), and bushing (5) from bracket (7). Remove lubrication fitting (6) from retainer (3). Discard lockwashers and O-rings.



b. CLEANING AND INSPECTION

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

1. Clean parts with dry cleaning solvent. Use wire brush to remove caked on dirt and corrosion. Replace parts if defective.

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4-32. CAMSHAFT REPLACEMENT (ALL EXCEPT M872A3) (Con't).

2. Inspect camshaft and S-cam (19) for wear. Replace if worn.
3. Inspect camshaft and bushing in spider and retainers (3 and 8) for looseness and binding. Replace camshaft or bushing if defective.
4. Inspect two lubrication fittings for damage. Replace if damaged.

c. INSTALLATION

1. Install two new O-rings (4) in bushing (5), and install bushing and retainers (3 and 8) on bracket (7) with four screws (2), new lockwashers (9), and nuts (10). Install lubrication fitting (6) in retainer (3).
2. Install lubrication fitting (1) in spider (13)
3. Install washer (17), new preformed packing (16), and bushing (15) on camshaft (18).
4. Position camshaft (18) through spider (13) and install new preformed packing (14). Slide camshaft through retainers (3 and 8) and install washer (12) and new retaining ring (11).

FOLLOW-ON TASKS:

- Lubricate camshaft (Chapter 3, Section I).
- Install slack adjuster (para 4-34).
- Install brakeshoes (para 4-31).

4-33. CAMSHAFT REPLACEMENT (M872A3).

This Task Covers:

- | | |
|----------------------------|-----------------|
| a. Removal | c. Installation |
| b. Cleaning and Inspection | |
-

Initial Setup:

Equipment Conditions:

- Wheels chocked.
- Brakeshoes removed (para 4-31).
- Slack adjuster removed (para 4-34).

Tools/Test Equipment:

- General mechanic's tool kit
- Retaining ring pliers

Materials/Parts:

- Wire brush (Item 3, Appendix E)
 - Dry cleaning solvent (Item 12, Appendix E)
 - One preformed packing
 - One retaining ring
 - One seal
-

a. REMOVAL

1. Remove washer (1) from camshaft (18).
2. Remove retaining ring (9) and washer (10) from camshaft (18). Slide camshaft out of spider (12). Discard retaining ring.
3. Remove seal (13), preformed packing (15), and washer (16) from camshaft (18). Discard seal and preformed packing.
4. Drive bushing (14) out of spider (12). Remove lubrication fitting (11) from spider.
5. Remove four nuts (8), flatwashers (3 and 7), screws (2), and retainer assembly (4) from bracket (6). Remove lubrication fitting (5) from retainer assembly.

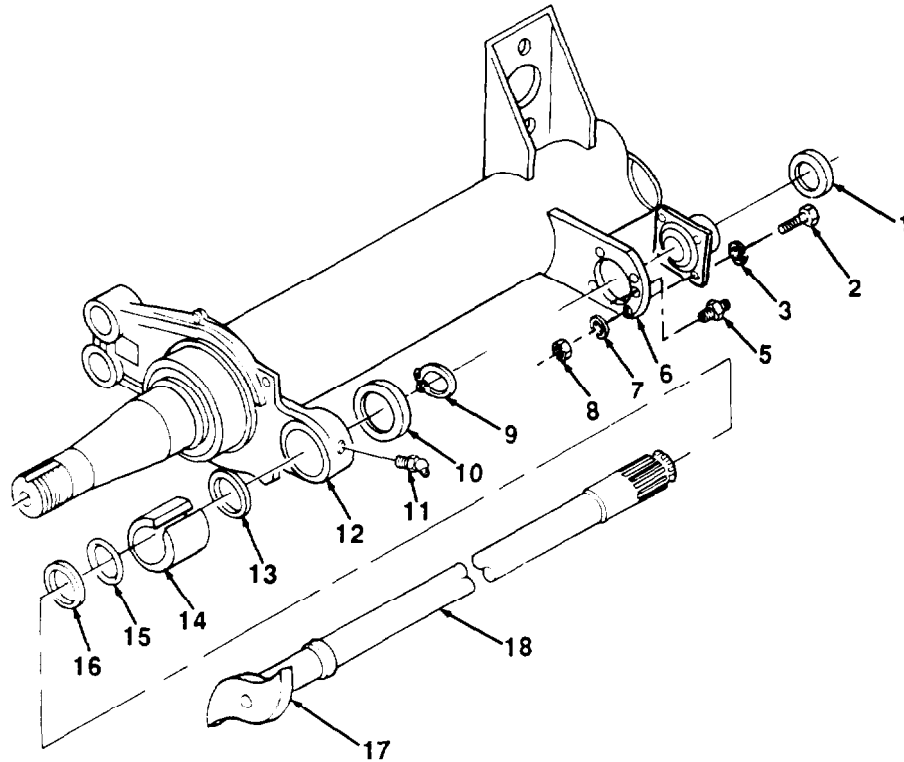
b. CLEANING AND INSPECTION

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

1. Clean parts with dry cleaning solvent. Use wire brush to remove caked on dirt and corrosion. Replace parts if defective.
2. Inspect camshaft and S-cam (17) for wear. Replace if worn.
3. Inspect camshaft and bushing in spider and retainer assembly (4) for looseness and binding. Replace camshaft or bushing if defective.
4. Inspect two grease fittings for damage. Replace if damaged.

4-33. CAMSHAFT REPLACEMENT (M872A3) (Con't).



c. INSTALLATION

1. Install retainer assembly (4) on bracket (6) with four screws (2), flatwashers (3 and 7), and nuts (8). Install lubrication fitting (5) in retainer assembly.
2. Install lubrication fitting (11) in spider (12).
3. Install washer (16), new preformed packing (15), bushing (14), and new seal (13) on camshaft (18).
4. Position camshaft (18) through spider (12) and install washer (10) and new retaining ring (9).
5. Install washer (1) on camshaft (18).

FOLLOW-ON TASKS:

- Lubricate camshaft (Chapter 3, Section I).
- Install slack adjuster (para 4-34).
- Install brakeshoes (para 4-31).

TA706580 ■

4-34. SLACK ADJUSTER REPLACEMENT.

This Task Covers:

- | | |
|--|---|
| <ul style="list-style-type: none"> a. Removal b. Cleaning and Inspection | <ul style="list-style-type: none"> c. Installation |
|--|---|

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Tools/Test Equipment:

- General mechanic's tool kit
- Retaining ring pliers

Materials/Parts:

- One cotter pin
- One retaining ring

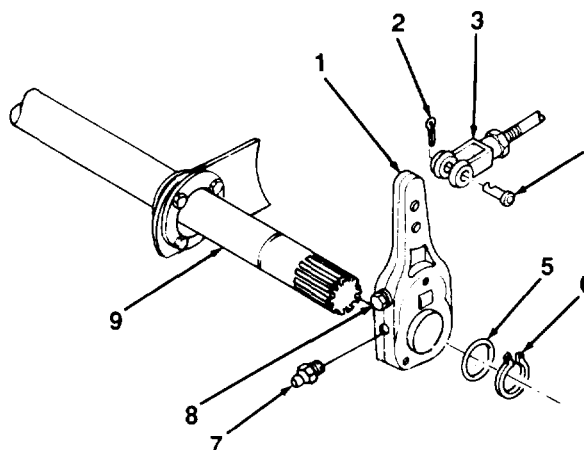
a. REMOVAL

1. Remove cotter pin (2), clevis pin (4), and disconnect clevis assembly (3) from slack adjuster (1). Discard cotter pin.

NOTE

M872 and M872A2 have no washer.

2. Remove retaining ring (6), washer (5), and slack adjuster (1) from camshaft (9). Remove lubrication fitting (7) from slack adjuster. Discard retaining ring.



b. CLEANING AND INSPECTION

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

1. Clean all parts with dry cleaning solvent. Allow to dry.
2. Inspect parts for damage. Replace any damaged parts.

TA508027

4-34. SLACK ADJUSTER REPLACEMENT (Con't).

c. INSTALLATION

1. Install lubrication fitting (7) in slack adjuster (1).

NOTE

- Ensure that splines of camshaft are clean before installing slack adjuster .
 - M872 and M872A2 have no washer.
2. Position slack adjuster (1) on camshaft (9) and install washer (5) and new retaining ring (6).
 3. Turn adjusting screw (8) to align slack adjuster (1) arm with clevis assembly (3).
 4. Connect clevis assembly (3) to slack adjuster (1) with clevis pin (4) and new cotter pin (2).

FOLLOW-ON TASKS:

- Adjust service brakes (para 4-31).

4-35. AIR LINES AND FITTINGS MAINTENANCE (ALL EXCEPT M872A3).

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | c. Installation |
| b. Repair | |
-

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Tools/Test Equipment:

- General mechanic's tool kit
-

Materials/Parts:

- Marker tags (Item 13, Appendix E)
 - Antiseize tape (Item 14, Appendix E)
-

a. REMOVAL

WARNING

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

1. Open draincock (2) and allow all air pressure to release. Remove draincock.

NOTE

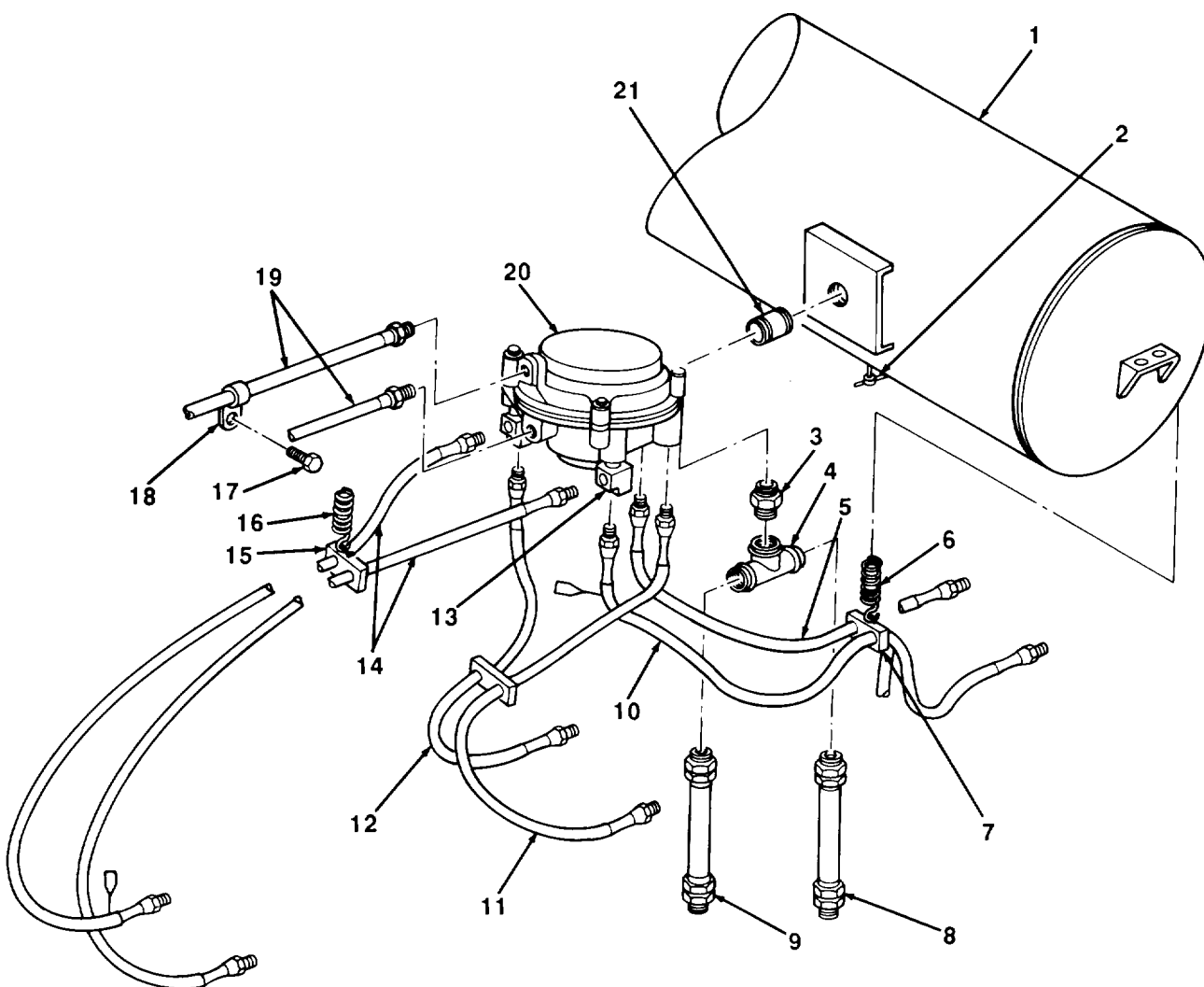
Tag all hose assemblies for installation. Remove clamps and screws necessary to access hose assembly being removed.

2. Remove screws (17) and clamps (18) from two hose assemblies (19).
3. Remove two hose assemblies (19) from emergency relay valve (20) and airbrake chambers.
4. Remove two hose assemblies (14) from emergency relay valve (20).
5. Remove brake installation (15) from two hose assemblies (14). Remove spring (16) from brake installation.
6. Remove two hose assemblies (11 and 12) from emergency relay valve (20) and airbrake chambers.
7. Remove two hose assemblies (5 and 10) from emergency relay valve (20) and airbrake chambers.
8. Remove four hose assemblies (5, 10, 11, and 12) from two brake installations (7). Remove two springs (6) from brake installations.
9. Remove two adapters (13) from emergency relay valve (20).
10. Remove two hose assemblies (8 and 9) from pipe tee (4) and airbrake chambers.
11. Remove pipe tee (4) and adapter (3) from emergency relay valve (20).
12. Remove emergency relay valve (20) and nipple (21) from air reservoir (1).

b. REPAIR

1. Cut new hose/line to required length using the unserviceable hose/line as guide.
2. Trim and square ends of hose/line with hose/tube wall.

4-35. AIR LINES AND FITTINGS MAINTENANCE (ALL EXCEPT M872A3) (Con't).



WARNING

Compressed air used for clearing restrictions should never exceed 30 psi (207 kPa). Wear protective clothing (goggles/shield, gloves, etc.) and use caution to avoid injury to personnel.

3. Remove foreign matter from hose/line with compressed air.
4. For metal air lines, remove tube nuts and sleeves from new fitting assemblies and position on ends of tubes.
5. For nylon air lines, remove tube nuts and sleeves from new fitting assemblies and position on ends of nylon tube. Install inserts in each end of tube.

TA508028

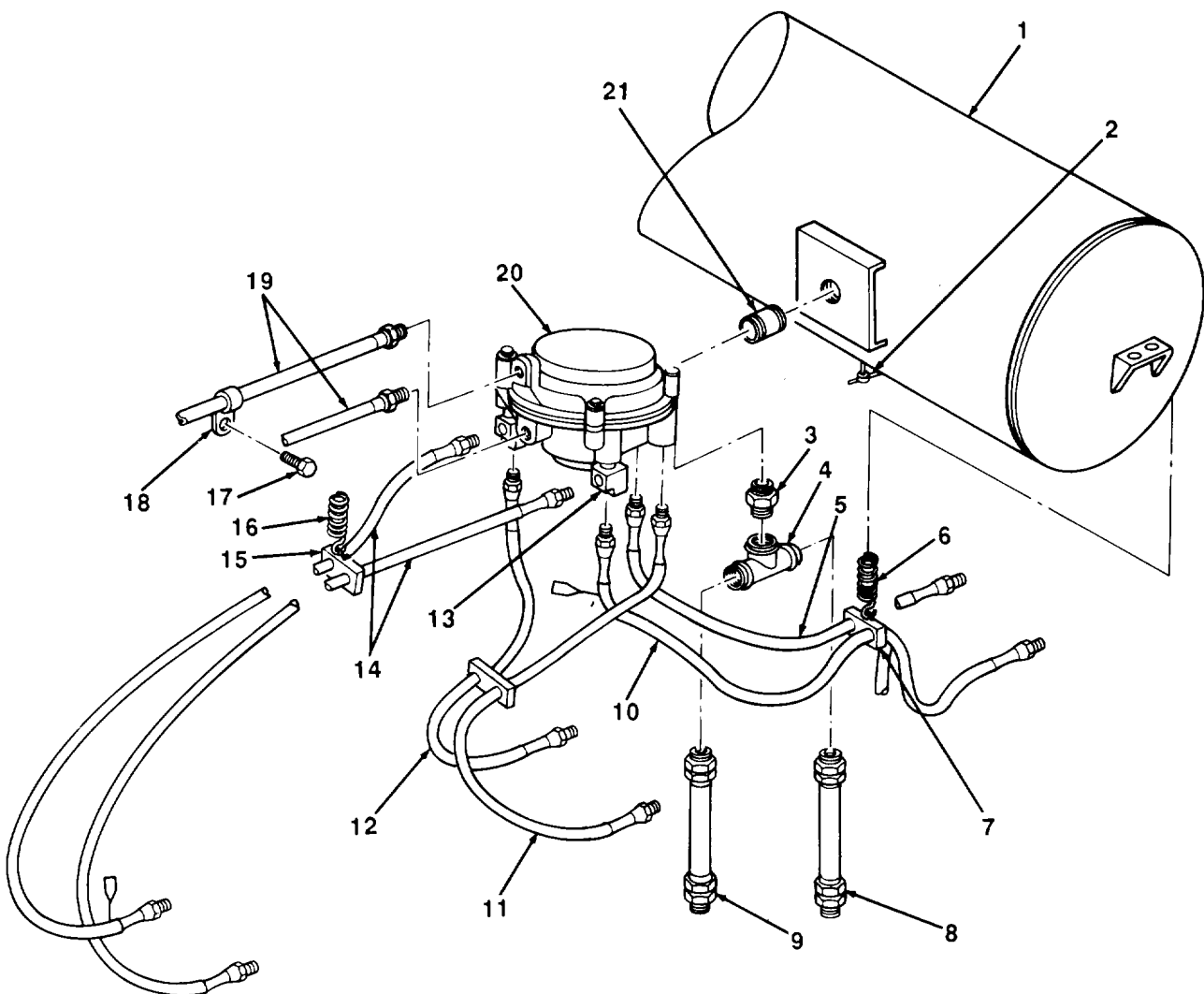
4-35. AIR LINES AND FITTINGS MAINTENANCE (ALL EXCEPT M872A3) (Con't).

c. INSTALLATION

NOTE

Apply antiseize tape to all male threads before installation.

1. Install nipple (21) and emergency relay valve (20) on air reservoir(1).
2. Install adapter (3) and pipe tee (4) on emergency relay valve (20).
3. Install two hose assemblies (8 and 9) on pipe tee (4) and airbrake chambers.



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4-35. AIR LINES AND FITTINGS MAINTENANCE (ALL EXCEPT M872A3) (Con't).

4. Install two adapters (13) on emergency relay valve (20).
5. Install two springs (6) on two brake installations (7). Install four hose assemblies (5, 10, 11, and 12) on brake installations.
6. Install two hose assemblies (5 and 10) on emergency relay valve (20) and airbrake chambers.
7. Install two hose assemblies (11 and 12) on emergency relay valve (20) and airbrake chambers.
8. Install spring (16) on brake installation (15). Install two hose assemblies (14) on brake installation.
9. Install two hose assemblies (14) on emergency relay valve (20).
10. Install two hose assemblies (19) on emergency relay valve (20) and airbrake chambers.
11. Install clamps (18) on hose assemblies(19) with screws (17).
12. Install draincock (2) on air reservoir (1). Close draincock.

FOLLOW-ON TASKS:

- Perform air leakage test (para 4-37).

4-36. AIR LINES AND FITTINGS MAINTENANCE (M872A3).

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | c. Installation |
| b. Repair | |
-

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Tools/Test Equipment:

- General mechanic's tool kit
-

Materials/Parts:

- Marker tags (Item 13, Appendix E)
 - Anti seize tape (Item 14, Appendix E)
-

a. REMOVAL

WARNING

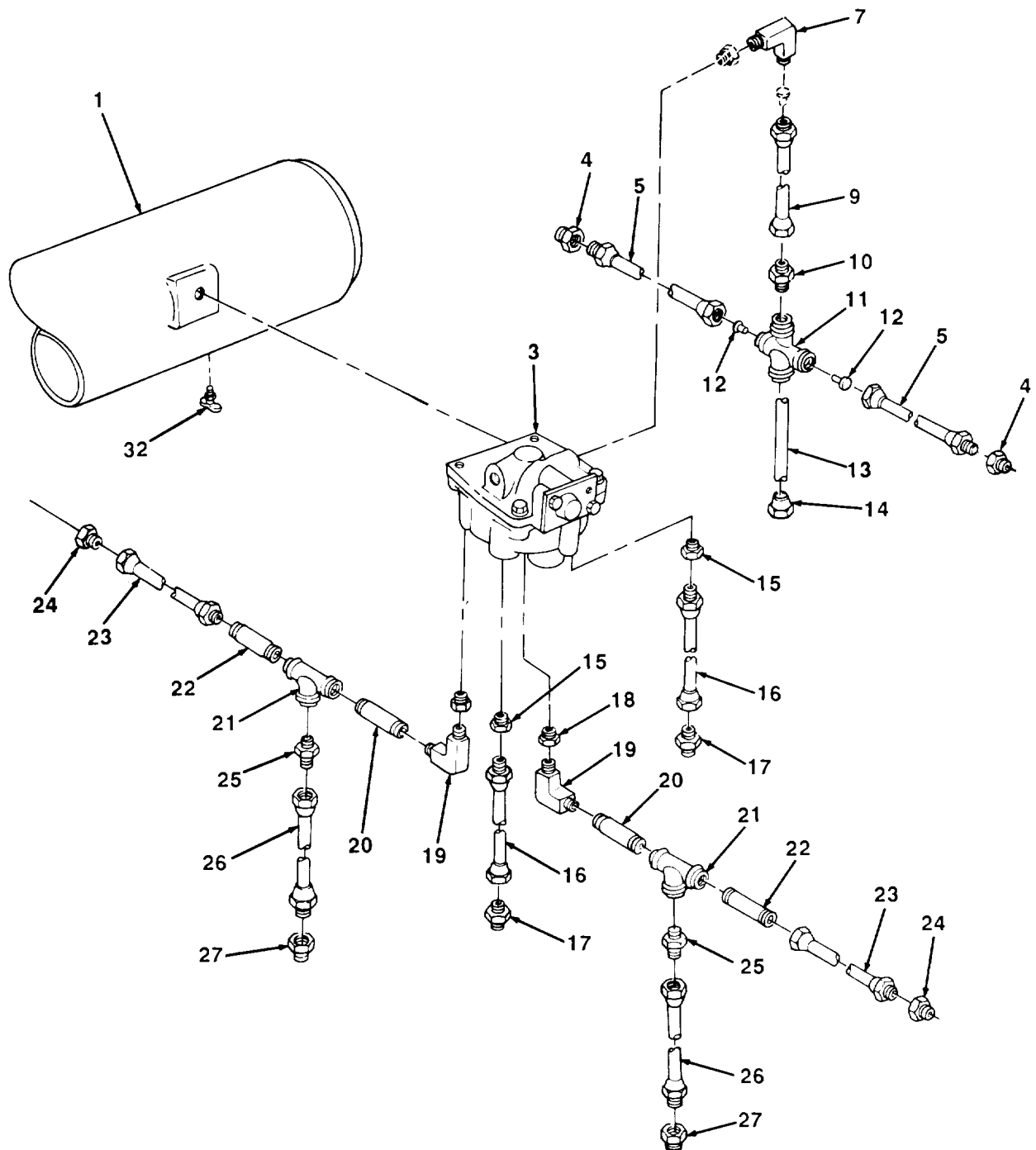
Wear safety goggles to prevent eye injury when opening air reservoir draincock. Step away from airstream to prevent injury.

1. Open draincock (32) and allow all air pressure to release. Remove draincock from air reservoir (1).

NOTE

Tag all hose assemblies for installation.

2. Remove two hose assemblies (16) from adapters (15) and bushings (17).
3. Remove two bushings (17) from airbrake chambers.
4. Remove two adapters (15) from emergency relay valve (3).
5. Remove two hose assemblies (23) from nipples (22) and bushings (24).
6. Remove two bushings (24) from airbrake chambers.
7. Remove two nipples (22) from tees (21).
8. Remove two hose assemblies (26) from adapters (25) and bushings (27).
9. Remove two bushings (27) from airbrake chambers.
10. Remove two adapters (25) from tees (21).
11. Remove two tees (21), nipples (20), elbows (19), and adapters (18) from emergency relay valve (3).
12. Remove two hose assemblies (5) from cross (11) and bushings (4).
13. Remove two bushings (4) from airbrake chambers.
14. Remove two inserts (12) from cross (11).
15. Remove hose (13) from adapter (14) and cross (11).
16. Remove cross (11) and adapter (10) from hose (9).
17. Remove hose (9) and from elbow (7).

4-36. AIR LINES AND FITTINGS MAINTENANCE (M872A3) (Con't).

TA508030

4-36. AIR LINES AND FITTINGS MAINTENANCE (M872A3) (Con't).

18. Remove insert (8), elbow (7), and adapter (6) from emergency relay valve (3).
19. Remove hose (28) from elbow (30).
20. Remove insert (29) from elbow (30).
21. Remove elbow (30) and adapter (31) from emergency relay valve (3).
22. Remove emergency relay valve (3) from nipple (2). Remove nipple from air reservoir (1).

b. REPAIR I

1. Cut new hose/line to required length using the unserviceable hose/line as guide.
2. Trim and square ends of hose/line with hose/tube wall.

WARNING

Compressed air used for clearing restrictions should never exceed 30 psi (207 kPa). Wear protective clothing (goggles/shield, gloves, etc.) and use caution to avoid injury to personnel.

3. Remove foreign matter from hose/line with compressed air.
4. For metal air lines, remove tube nuts and sleeves from new fitting assemblies and position on ends of tubes.
5. For nylon air lines, remove tube nuts and sleeves from new fitting assemblies and position on ends of nylon tube. Install inserts in each end of tube.

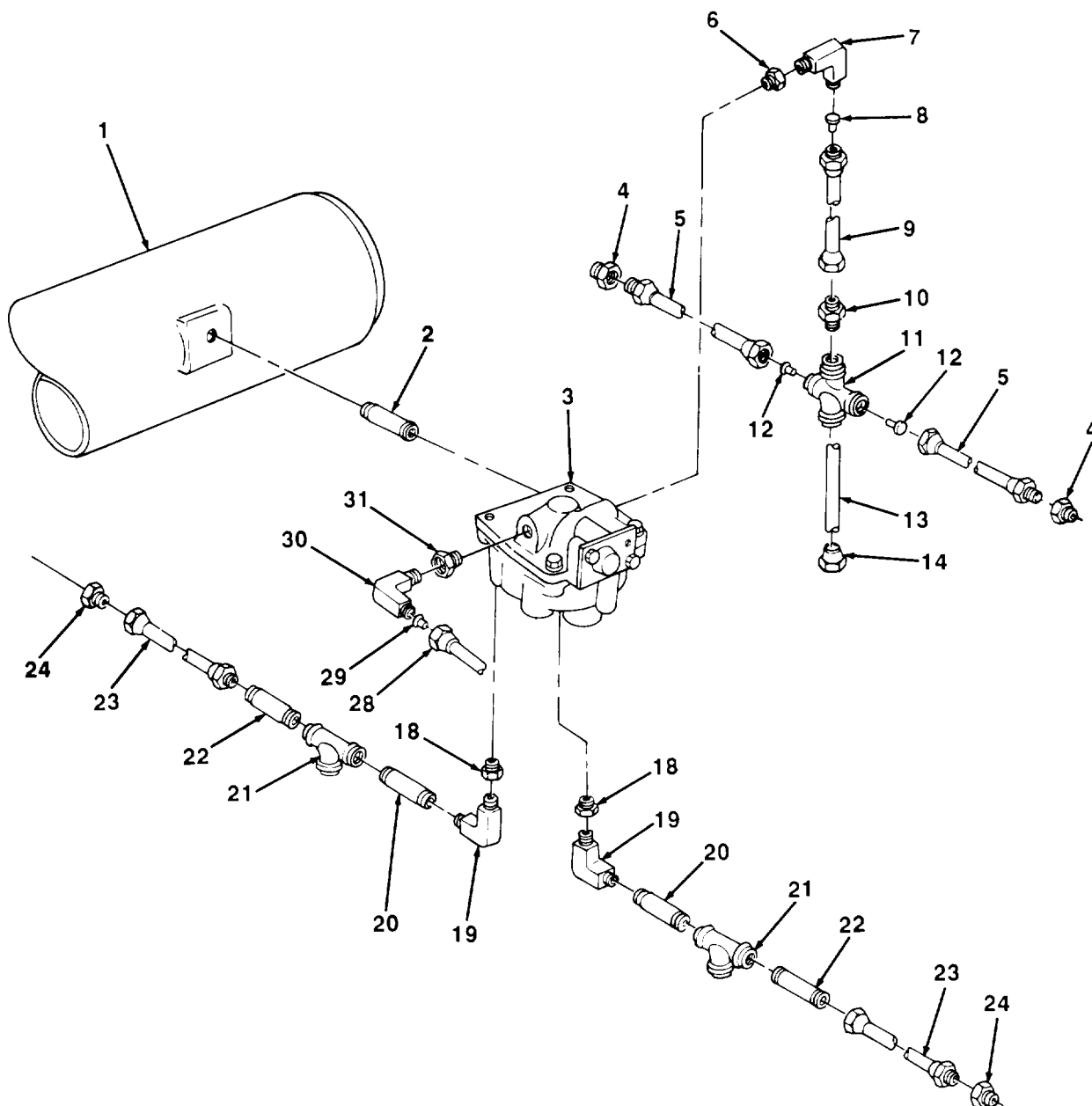
c. INSTALLATION

NOTE

Apply antiseize tape to all male threads before Installation.

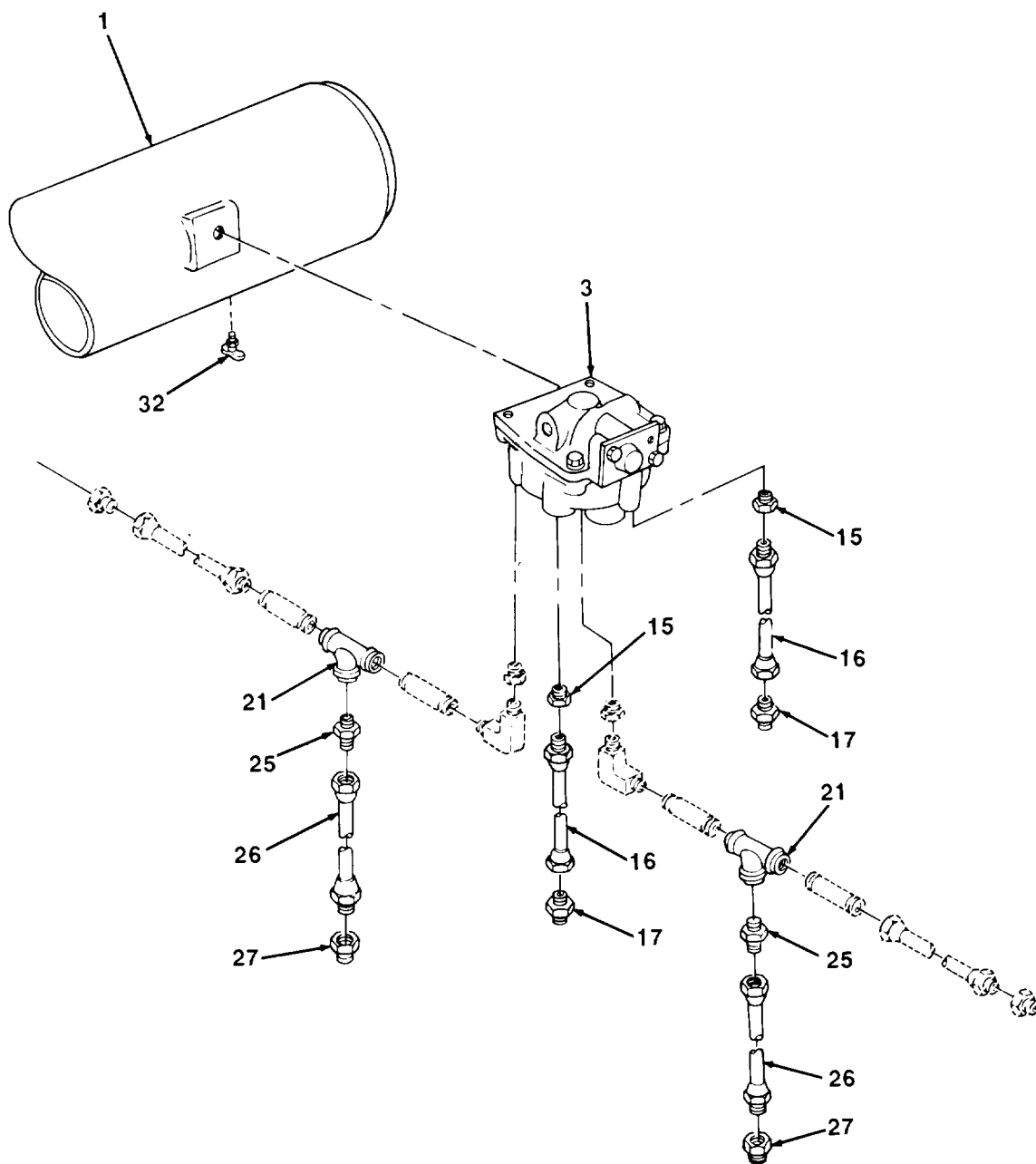
1. Install nipple (2) in air reservoir (1). Install emergency relay valve (3) on nipple.
2. Install adapter (31) and elbow (30) on emergency relay valve (3).
3. Install insert (29) and hose assembly (28) on elbow (30).
4. Install adapter (6) and elbow (7) on emergency relay valve (3).
5. Install insert (8), hose (9), adapter (10), and cross (11) on elbow (7).
6. Install hose (13) and adapter (14) on cross (11).
7. Install two inserts (12), hose assemblies (5), and bushings (4) on cross (11).
8. Install two bushings (4) on airbrake chambers.
9. Install two adapters (18) and elbows (19) on emergency relay valve (3).
10. Install two nipples (20), tees (21), nipples (22), hose assemblies (23), and bushings (24) on elbows (19).

4-36. AIR LINES AND FITTINGS MAINTENANCE (M872A3) (Con't).



TA508031

4-36. AIR LINES AND FITTINGS MAINTENANCE (M872A3) (Con't).



TA508032

4-36. AIR LINES AND FITTINGS MAINTENANCE (M872A3) (Con't).

11. Install two bushings (24) on airbrake chambers.
12. Install two adapters (25), hose assemblies (26), and bushings (27) on tees (21).
13. Install two bushings (27) on airbrake chambers.
14. Install two adapters (15), hose assemblies (16), and bushings (17) on emergency relay valve (3).
15. Install two bushings (17) on airbrake chambers.
16. Install draincock (32) on air reservoir (1). Close draincock.

FOLLOW-ON TASKS:

- Perform air leakage test (para 4-37).

4-37. AIR LEAKAGE TEST.

This Task Covers: Test

Initial Setup:

Equipment Conditions:

- Semitrailer coupled to towing vehicle with air system pressurized (para 2-10).

Materials/Parts:

- Dishwashing compound (Item 5, Appendix E)

Tools/Test Equipment:

- General mechanic's tool kit

Personnel Required: Two

TEST

1. Coat air lines, fittings, and airbrake chamber connections with soap and water solution. Inspect for air bubbles. No air leakage is permissible.
2. Tighten any leaking connections or replace defective components as required.
3. Apply soap and water solution to exhaust check valve on underside of emergency relay valve. Place emergency relay valve in emergency position by disconnecting either towing vehicle air line from semitrailer air coupling.
4. Replace emergency relay valve if air bubble larger than 1 in. (2.5 cm) develops within three seconds (para 4-43).

4-38. AIR COUPLING MAINTENANCE (M872).

This Task Covers:

- | | |
|----------------|-----------------|
| a. Removal | c. Assembly |
| b. Disassembly | d. Installation |

Initial Setup:

Equipment Conditions:

- Semitrailer uncoupled from towing vehicle (para 2-18).

Tools/Test Equipment:

- General mechanic's tool kit

Materials/Parts:

- Antiseize tape (Hem 14, Appendix E)
- One lockwasher
- One preformed packing

NOTE

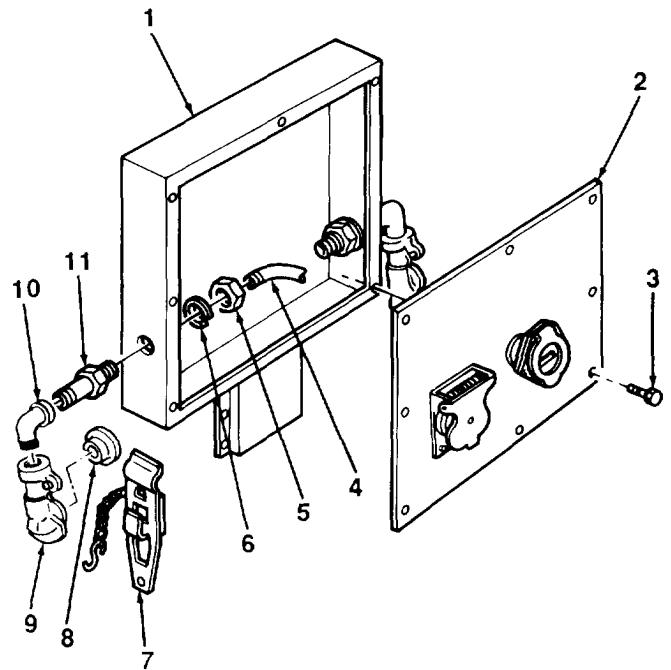
Service and emergency air couplings are maintained the same way.

a. REMOVAL

1. Remove eight screws (3) and nose box cover (2) from nose box (1).
2. Disconnect air hose (4) from reducer pipe (11).
3. Remove nut (5) and lockwasher (6) from reducer pipe (11). Discard lockwasher.
4. Remove air coupling (9), elbow (10), and reducer pipe (11) as an assembly from nose box (1).

b. DISASSEMBLY

1. Remove reducer pipe (11) and elbow (10) from air coupling (9).
2. Remove dummy coupling (7) and preformed packing (8) from air coupling (9). Discard preformed packing.



c. ASSEMBLY

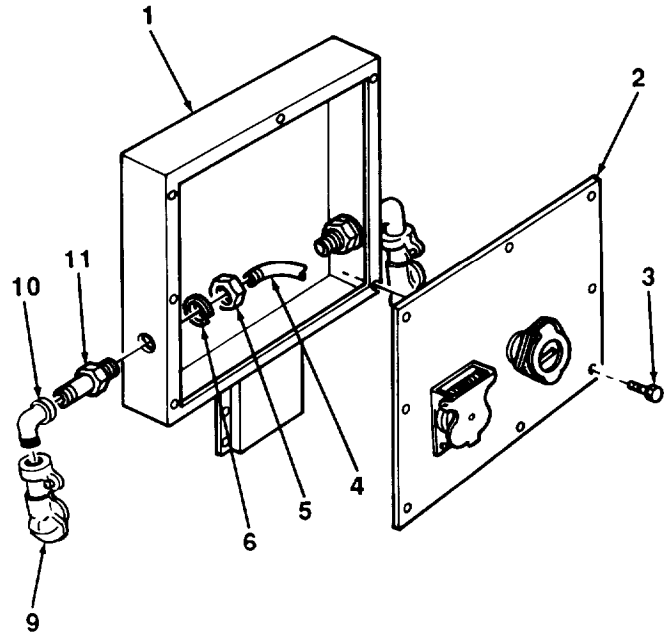
1. Install new preformed packing (8) and dummy coupling (7) in air coupling (9).
2. Apply antiseize tape to male threads of elbow (10) and reducer (11), and install elbow and reducer pipe in air coupling (9).

TA508033

4-38. AIR COUPLING MAINTENANCE (M872) (Con't).

d. INSTALLATION

1. Position air coupling (9), elbow (10), and reducer pipe (11) as an assembly in nose box (1). Install new lockwasher (6) and nut (5).
2. Apply antiseize tape to threads of air hose (4) and connect air hose to male reducer pipe (11).
3. Install nose box cover (2) on nose box (1) with eight screws (3).



FOLLOW-ON TASKS:

- Perform air leakage test (para 4-37).

TA508034

4-39. AIR COUPLING MAINTENANCE (M872A1 AND M872A2).

This Task Covers:

- | | |
|----------------|-----------------|
| a. Removal | c. Assembly |
| b. Disassembly | d. Installation |

Initial Setup:

Equipment Conditions:

- Semitrailer uncoupled from towing vehicle (para 2-18).

Tools/Test Equipment:

- General mechanic's tool kit

Materials/Parts:

- Anti seize tape (Item 14, Appendix E)
- One preformed packing
- One lockwasher

NOTE

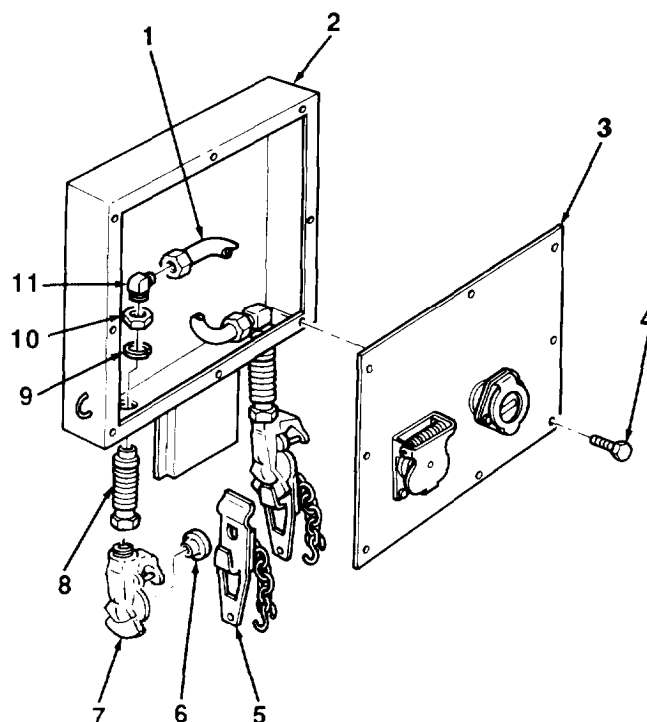
Service and emergency air couplings are maintained the same way.

a. REMOVAL

1. Remove eight screws (4) and nose box cover (3) from nose box (2).
2. Disconnect air hose (1) from elbow (11).
3. Remove elbow (11), nut (10), and lockwashers (9) from reducer pipe (8). Discard lockwasher.
4. Remove reducer pipe (8) and air coupling (7) as an assembly from nose box (2).

b. DISASSEMBLY

1. Remove reducer pipe (8) from air coupling (7).
2. Remove dummy coupling (5) and preformed packing (6) from air coupling (7). Discard preformed packing.



c. ASSEMBLY

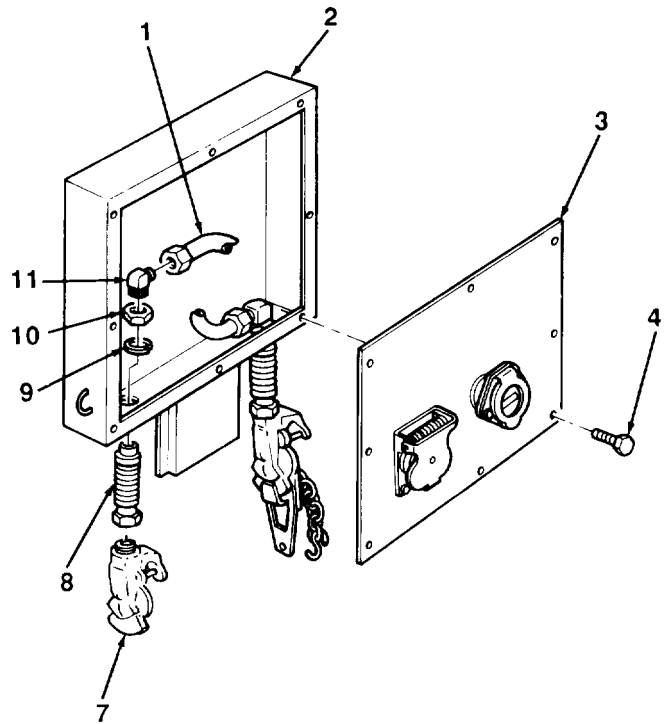
1. Install new preformed packing (6) and dummy coupling (5) in air coupling (7).
2. Apply antiseize tape to male threads of reducer pipe (8) and air coupling (7) and install reducer pipe on air coupling.

TA508035

4-39. AIR COUPLING MAINTENANCE (M872A1 AND M872A2) (Con't).

d. INSTALLATION

1. Position reducer pipe (8) and air coupling (7) as an assembly in nose box (2) and install new lockwasher (9), nut (10), and elbow (11).
2. Apply antiseize tape to male threads of air hose (1) and connect air hose to elbow (11).
3. Install nose box cover (3) on nose box (2) with eight screws (4).



FOLLOW-ON TASKS:

- Perform air leakage test (para 4-37).

4-40. AIR COUPLING MAINTENANCE (M872A3).

This Task Covers:

- | | |
|----------------|-----------------|
| a. Removal | c. Assembly |
| b. Disassembly | d. Installation |
-

Initial Setup:

Equipment Conditions:

- Semitrailer uncoupled from towing vehicle (para 2-18).

Materials/Parts:

- Antiseize tape (item 14, Appendix E)
- One preformed packing

Tools/Test Equipment:

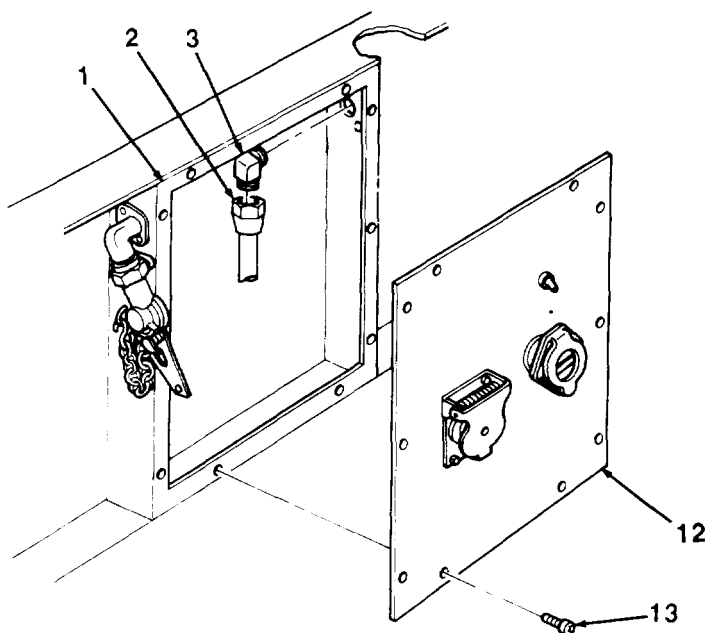
- General mechanic's tool kit
-

NOTE

Service and emergency air couplings are maintained the same way.

a. REMOVAL

1. Remove ten screws (13) and nose box cover (12) from nose box (1).
2. Disconnect air hose (2) from elbow (3).



TA508037

4-40. AIR COUPLING MAINTENANCE (M872A3) (Con't).

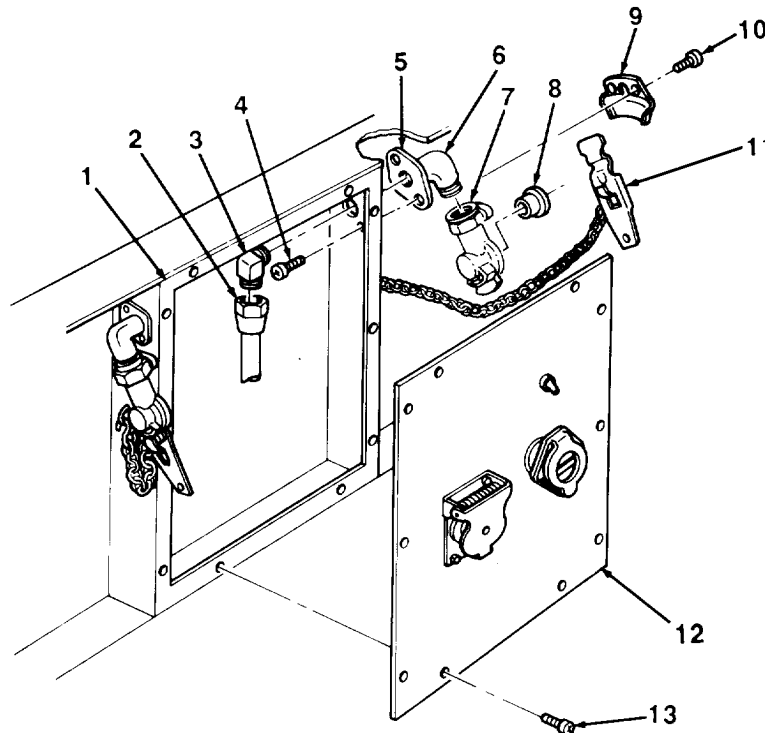
3. Remove elbow (3) from flange (5) and nose box (1).
4. Remove two screws (4), flange (5), elbow (6), and air coupling (7) as an assembly from nose box (1).

b. DISASSEMBLY

1. Remove flange (5) and elbow (6) from air coupling (7).
2. Remove two screws (10) and flange (9) from air coupling (7).
3. Remove dummy coupling (11) and preformed packing (8) from air coupling (7). Discard preformed packing.

c. ASSEMBLY

1. Install new preformed packing (8) and dummy coupling (11) in air coupling (7).
2. Install flange (9) on air coupling (7) with two screws (10).
3. Apply antiseize tape to male threads of elbow (6), and install elbow and flange (5) on air coupling (7).



TA508038

4-40. AIR COUPLING MAINTENANCE (M872A3) (Con't).

d. INSTALLATION

1. Install flange (5), elbow (6), and air coupling (7) as an assembly in nose box (1) with two screws (4).
2. Apply antiseize tape to male threads of elbow (3) and install elbow on flange (5) and nose box (1).
3. Apply antiseize tape to male threads of air hose (2), and connect air hose to elbow (3).
4. Install nose box cover (12) on nose box (1) with ten screws (13).

FOLLOW-ON TASKS:

- Perform air leakage test (para 4-37).

4-41. AIR RESERVOIR REPLACEMENT

This Task Covers:

a. Replacement (All Except M872A3)

b. Replacement (M872A3)

Initial Setup:

Equipment Conditions:

- Emergency relay valve removed (para 4-43).

Tools/Test Equipment:

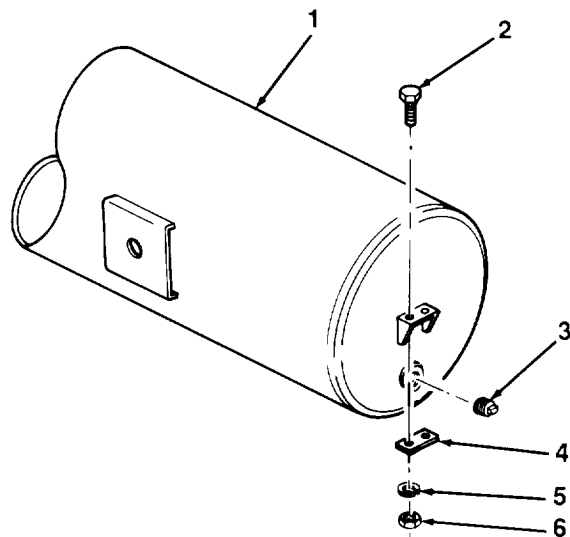
- General mechanic's tool kit

Materials/Parts:

- Antiseize tape (item 14, Appendix E)
- Four locknuts (all except M872A3)
- Four lockwashers (M872A3)

a. REPLACEMENT (ALL EXCEPT M872A3)

1. Remove four locknuts (6), flatwashers (5), screws (2), two shock pads (4), and air reservoir (1) from two mounting brackets. Discard locknuts.
2. Remove two drain plugs (3) from air reservoir (1).
3. Apply antiseize tape to threads of two drain plugs (3). Install drain plugs on air reservoir (1).
4. install air reservoir (1) on two mounting brackets with two shock pads (4), four screws (2), flatwashers (5), and new locknuts (6).

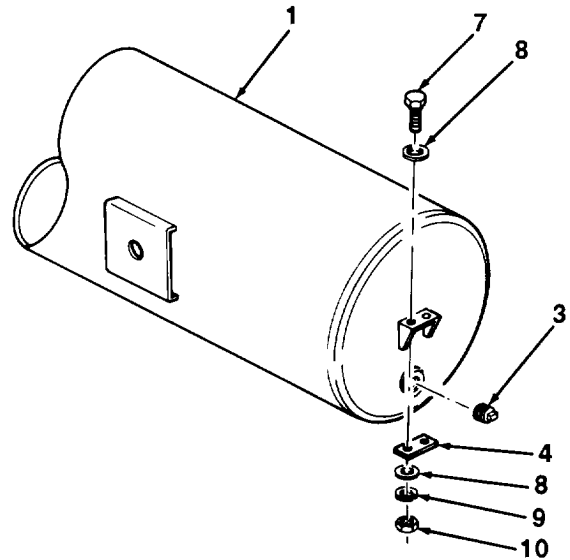


TA508039

4-41. AIR RESERVOIR REPLACEMENT (Con't).

b. REPLACEMENT (M872A3)

1. Remove four nuts (10), screws (7), lockwashers (9), eight flatwashers (8), two shock pads (4), and air reservoir (1) from two mounting brackets. Discard lockwashers.
2. Remove two drain plugs (3) from air reservoir (1).
3. Apply antiseize tape to threads of two drain plugs (3). Install drain plugs on air reservoir (1).
4. Install air reservoir (1) on two mounting brackets with two shock pads (4), four screws (7), new lockwashers (9), eight flatwashers (8), and four nuts (10).

**FOLLOW-ON TASKS:**

- Install emergency relay valve (para 4-43).

4-42. STANDARD AND FAILSAFE AIRBRAKE CHAMBERS MAINTENANCE.

This Task Covers:

- | | |
|----------------------------|-----------------|
| a. Removal | d. Assembly |
| b. Disassembly | e. Installation |
| c. Cleaning and Inspection | |

Initial Setup:

Equipment Conditions:

- Brakes caged (para 2-16).
- Air lines, hoses, and fittings disconnected from airbrake chamber (para 4-35 or 4-36).

Tools/Test Equipment:

- General mechanic's tool kit

Materials/Parts:

- Dry cleaning solvent (Item 12, Appendix E)
- One cotter pin
- Two locknuts (all except M872A3)

a. REMOVAL

NOTE

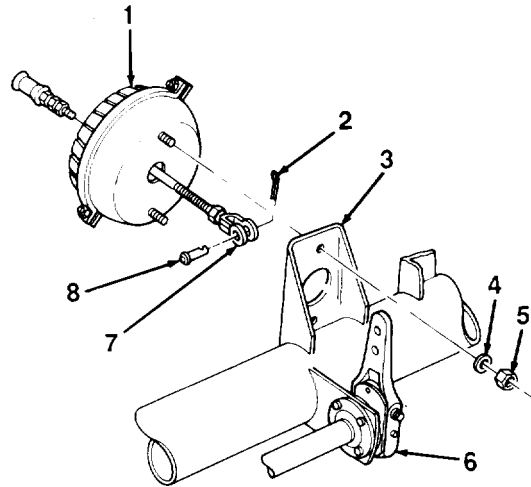
Standard airbrake chambers are mounted on front and rear axles. Failsafe airbrake chambers are mounted on middle axle only. Removal of standard unit is shown.

1. Remove cotter pin (2), clevis pin (8), and disconnect clevis (7) from slack adjuster (6). Discard cotter pin.

NOTE

M872A3 airbrake chamber is mounted to axle bracket with nuts instead of locknuts.

2. Remove two locknuts (5), flatwashers (4), and airbrake chamber (1) from axle bracket (3). Discard locknuts.



b. DISASSEMBLY

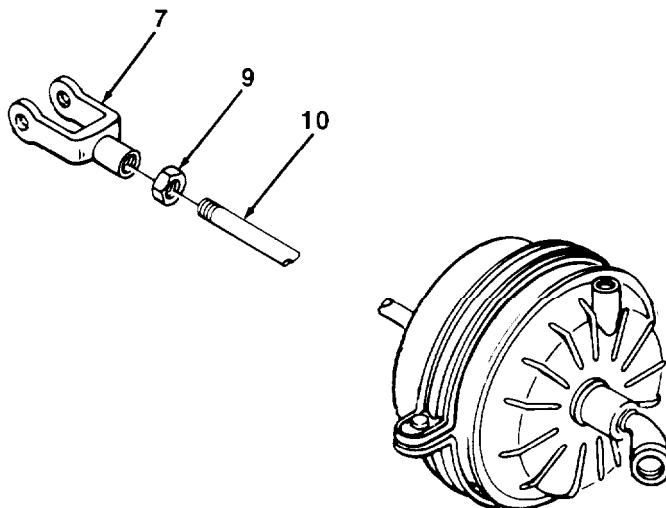
WARNING

DO NOT attempt to disassemble failsafe airbrake chamber. Failsafe chamber is under extreme pressure. Failure to follow this warning may result in serious injury or death to personnel.

Remove clevis (7) and jamnut (9) from pushrod (10).

TA508041

4-42. STANDARD AND FAILSAFE AIRBRAKE CHAMBERS MAINTENANCE (Con't).



c. CLEANING AND INSPECTION

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

Clean all parts with dry cleaning solvent and inspect for damage. Replace damaged parts.

d. ASSEMBLY

Install clevis (7) and jamnut (9) on pushrod (10).

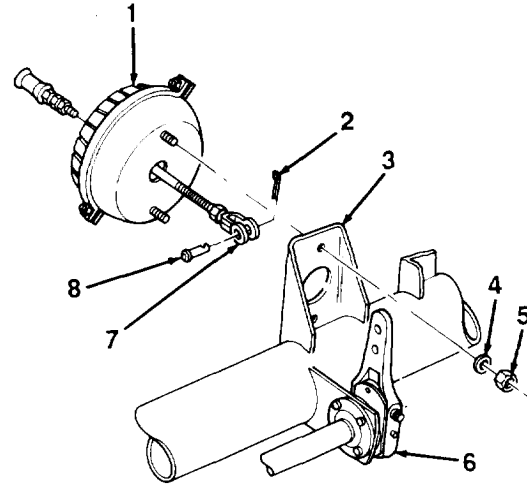
4-42. STANDARD AND FAILSAFE AIRBRAKE CHAMBERS MAINTENANCE (Con't).

e. INSTALLATION

NOTE

M872A3 is mounted to axle bracket with nuts instead of locknuts.

1. Install airbrake chamber (1) on axle bracket (3) with two flatwashers (4) and new locknuts (5).
2. Connect clevis (7) to slack adjuster (6) with clevis pin (8) and new cotter pin (2).



FOLLOW-ON TASKS:

- Uncage failsafe airbrake chamber (para 2-16).
- Connect air lines, hoses, and fittings to airbrake chamber (para 4-35 or 4-36).
- Ensure that air reservoir draincock is closed.
- Perform air leakage test (para 4-37).

TA508043

4-43. EMERGENCY RELAY VALVE REPLACEMENT.

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | b. Installation |
|------------|-----------------|
-

Initial Setup:

Equipment Conditions:

- Air lines, hoses, and fittings disconnected from emergency relay valve (para 4-35 or 4-36).

Materials/Parts:

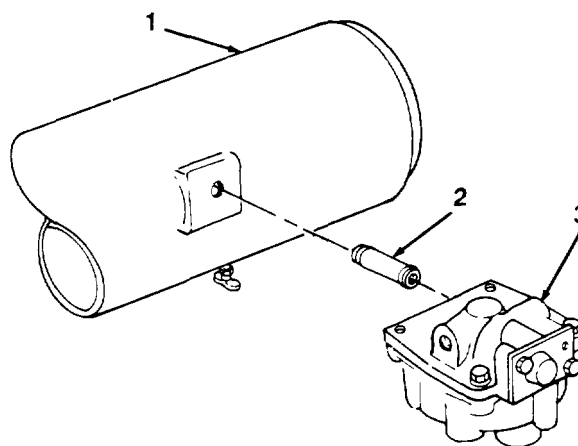
- Antiseize tape (Item 14, Appendix E)

Tools/Test Equipment:

- General mechanic's tool kit
-

a. REMOVAL

1. Turn emergency relay valve (3) counterclockwise and remove from nipple (2).
2. Remove nipple (2) from air reservoir (1).

**b. INSTALLATION**

1. Apply antiseize tape to threads of nipple (2).
2. Install nipple (2) on air reservoir (1).
3. Turn emergency relay valve (3) clockwise to install on nipple (2).

FOLLOW-ON TASKS:

- Connect air lines, hoses, and fittings to emergency relay valve (para 4-35 or 4-36).
- Perform air leakage test (para 4-37).

TA508044

Section IX. WHEELS, HUBS, AND BRAKEDRUMS MAINTENANCE

Paragraph Title	Page Number
Hub, Wheel Bearing, and Brakedrum Maintenance	4-80
Trunnion Bushing Replacement.	4-85
Wheel and Tire Maintenance	4-86

4-44. HUB, WHEEL BEARING, AND BRAKEDRUM MAINTENANCE.

This Task Covers:

- a. Disassembly
- b. Assembly
- c. Adjustment

Initial Setup:

Equipment Conditions:

- Wheels removed (para 4-46).

Tools/Test Equipment:

- General mechanic's tool kit
- Common no. 1 shop set
- Jackstand

Materials/Parts:

- Dry cleaning solvent (Item 12, Appendix E)
- Grease (Item 6, Appendix E)
- One gasket
- One seal
- Six lockwashers

References:

- TM 9-214

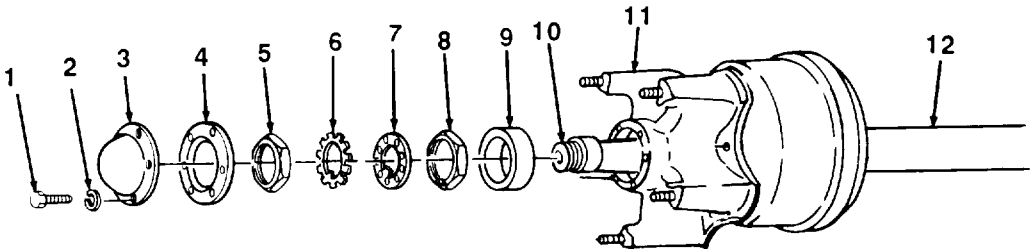
a. **DISASSEMBLY**

1. Position jackstand under axle (12) and remove floor jack.

NOTE

If semitrailer is not attached to towing vehicle, release air pressure in air reservoir and remove cotter pin from slack adjuster.

2. Remove six screws (1), lockwashers (2), hubcap (3), and gasket (4) from wheel (11). Discard lockwashers and gasket.



TA508045

4-44. HUB, WHEEL BEARING, AND BRAKEDRUM MAINTENANCE (Con't).

NOTE

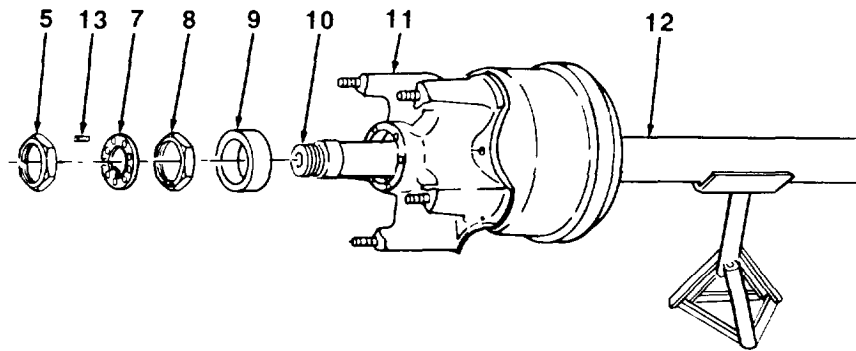
Step 3 applies to all models except M872A3.

3. Remove outer nut (5), washer (6), keywasher (7), inner nut (8), and seal (9) from axle spindle (10). Discard seal.

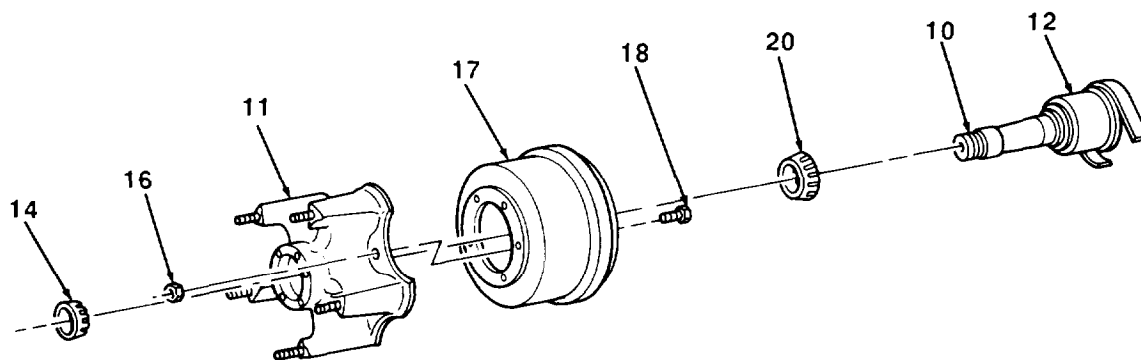
NOTE

Step 4 applies to M872A3 only.

4. Remove outer nut (5), setscrew (13), keywasher (7), inner nut (8), and seal (9) from axle spindle (10). Discard seal.



5. Remove five nuts (16), bolts (18), wheel (11), and brakedrum (17) from axle (12).
6. Inspect brakedrum for cracks, warping, scoring, and other damage and wear. Notify direct support maintenance for repair if brakedrum is defective.
7. Remove outer wheel bearing cone (14) and inner wheel bearing cone (20).



TA508046

4-44. HUB, WHEEL BEARING, AND BRAKEDRUM MAINTENANCE (Con't).

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

NOTE

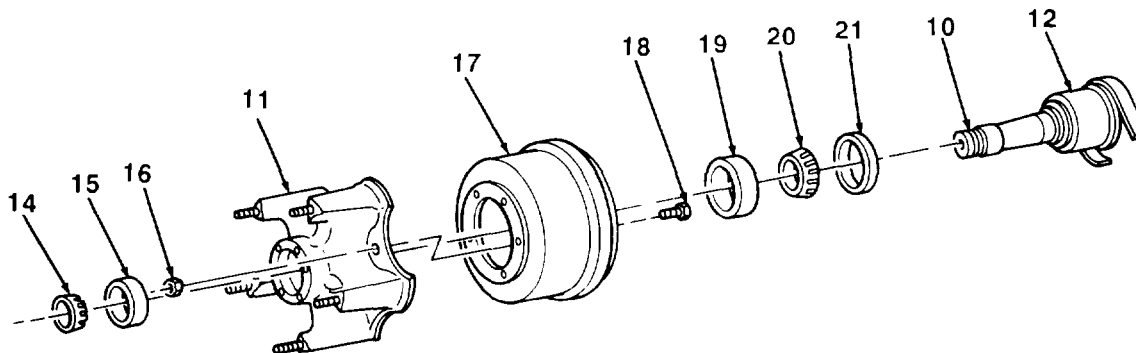
If outer and inner wheel bearing cones need replacing, wheel bearing cups must also be replaced.

8. Clean and inspect outer and inner wheel bearing cones (14 and 20) in accordance with TM 9-214. Discard if damaged.
9. Inspect outer and inner wheel bearing cups (15 and 19) and ring (21) for damage or excessive wear.

NOTE

Perform step 10 only if outer and inner wheel bearing cups erring is excessively worn or damaged, or if wheel bearing cones are being replaced.

10. Tap out and remove outer bearing cup (15), inner wheel bearing cup (19), and ring (21).



b. ASSEMBLY

1. If removed, tap out and inner wheel bearing cups (15 and 19) in wheel (11).

NOTE

Instructions on packing outer and inner wheel bearing cones can be found in TM 9-214. Ensure that all seal remains are removed from axle spindle before performing step 2.

2. Pack inner wheel bearing cone (20) with grease, position in wheel (11), and install ring (21), if removed.
3. Position brakedrum (17) and wheel (11) on axle (12) and install five bolts (18) and nuts (16).
4. Pack outer wheel bearing cone (14) with grease and position on axle spindle (10).

TA508047

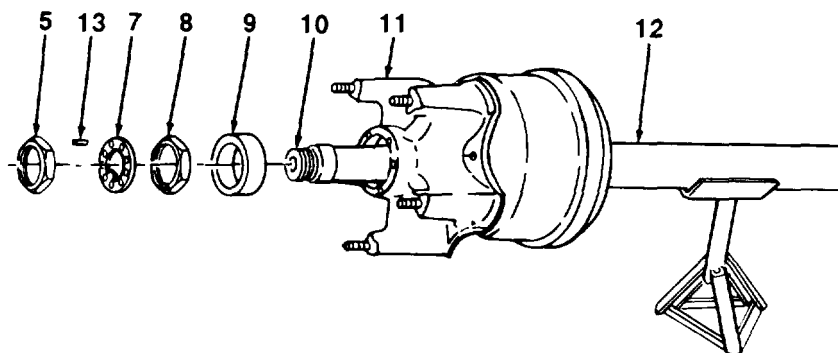
4-44. HUB, WHEEL BEARING, AND BRAKEDRUM MAINTENANCE (Con't).

5. Install new seal (9) on axle spindle (10).

NOTE

When installing inner nut, ensure that locking guide pin is facing out.

6. Install inner nut (8) on axle spindle (10). If a new ring (21) was installed, tighten inner nut to 100 lb.-ft.(136 N•m) and back off. Torque inner nut to 50 lb.-ft. (68 N•m) and back off ¼ turn. If ring was not replaced, tighten inner nut to 50 lb.-ft. (68 N•m) and back off ¼ turn.

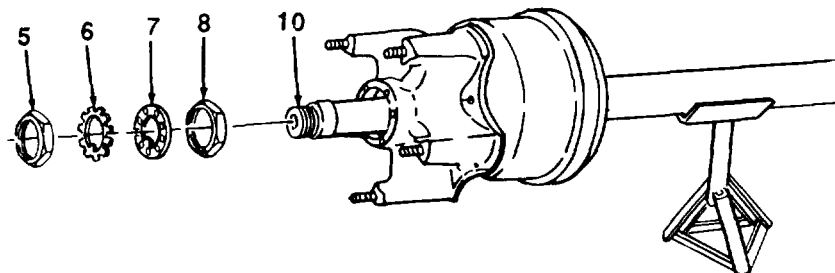


7. install keywasher (7) on axle spindle (10) with inner diameter tab on spindle. Engage nearest hole over locking guide pin of inner nut (8).

NOTE

Step 8 applies to ail models except M872A3.

8. Install washer (6) and outer nut (5) on axle spindle (10).



NOTE

Step 9 applies only to M872A3.

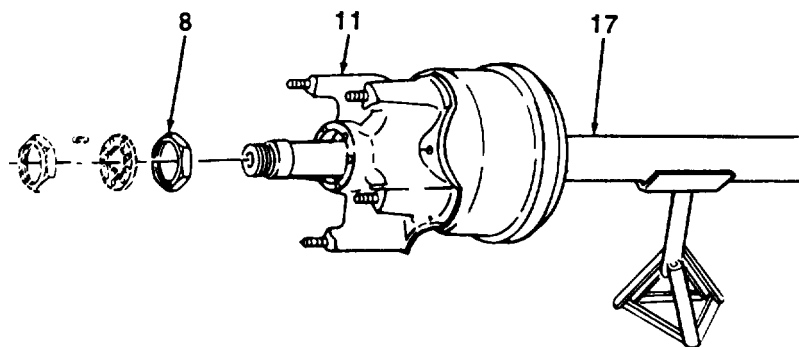
9. Install keywasher (7) and outer nut (5) on axle spindle (10).
10. Tighten outer nut (5) to 200-225 lb.-ft. (271-305 N•m).
11. Install setscrew (13) in keywasher (7).

TA508048

4-44. HUB, WHEEL BEARING, AND BRAKEDRUM MAINTENANCE (Con't).

c. ADJUSTMENT

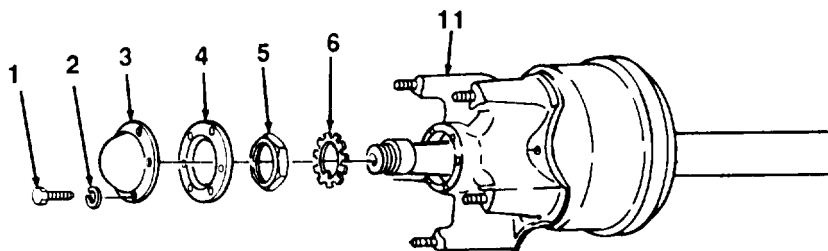
1. Rock wheel (11) and brakedrum (17) assembly back and forth and check for play in wheel bearings.
2. Tighten inner nut (8) until play is no longer felt.



NOTE

Step 3 applies to all models except M872A3.

3. Bend tabs of washer (6) over outer nut (5).
4. Install new gasket (4) and hubcap (3) on wheel (11) with six new lockwashers (2) and screws (1).



FOLLOW-ON TASKS:

- Adjust service brakes (para 4-31).
- Install wheels (para 4-46).

TA508049

4-45. TRUNNION BUSHING REPLACEMENT

This Task Covers:

a. Removal

b. Installation

Initial Setup:

Equipment Conditions:

- Wheels removed (para 4-46).

Materials/Parts:

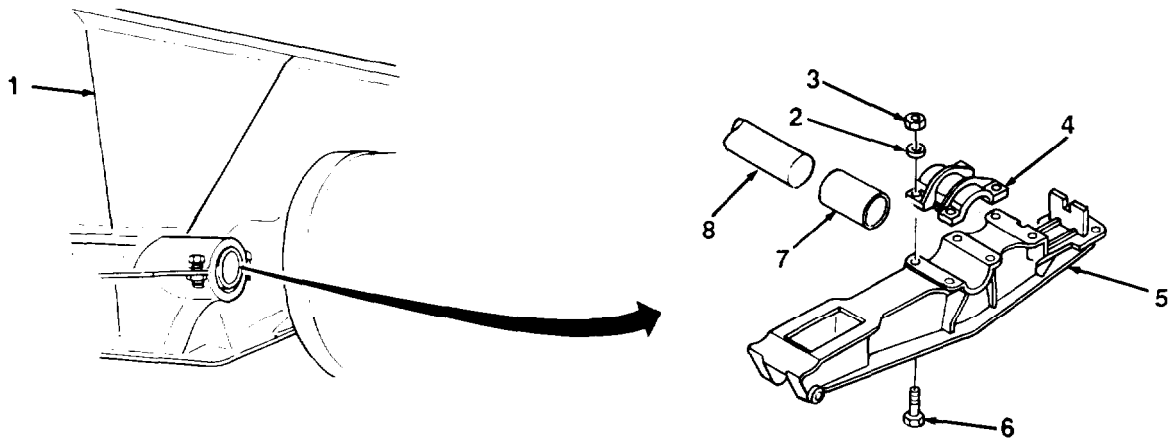
- Four locknuts

Tools/Test Equipment:

- General mechanic's tool kit
- Common no. 1 shop set
- Floor jack

a. REMOVAL

1. Remove four locknuts (3), washers (2), screws (6), and trunnion cap (4) from equalizing beam (5). Discard locknuts.
2. Position floor jack under trunnion bracket (1) and raise trunnion bracket until trunnion bushing (7) is not resting on equalizing beam (5).
3. Remove trunnion bushing (7) from tube (8) and equalizing beam (5).



b. INSTALLATION

1. Position trunnion bushing (7) on tube (8) and equalizing beam (5).
2. Install trunnion cap (4) with four screws (6), washers (2), and new locknuts (3). Torque locknuts to 250 lb.-ft. (339 N•m) lubricated.
3. Remove floor jack from under trunnion bracket (1).

FOLLOW-ON TASKS:

- Install wheels (para 4-46).

TA508050

4-46. WHEEL AND TIRE MAINTENANCE.

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | c. Installation |
| b. Repair | |

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Tools/Test Equipment:

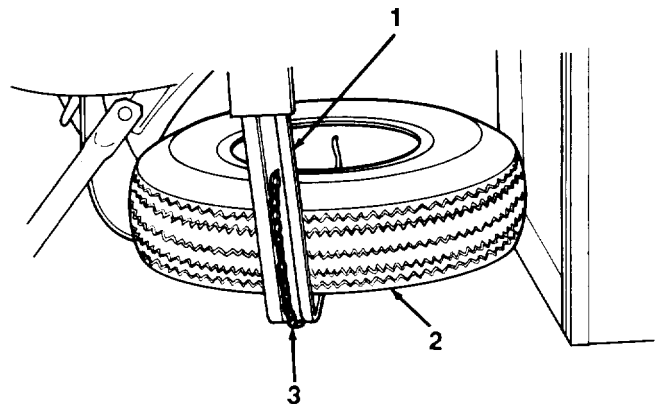
- General mechanic's tool kit

References:

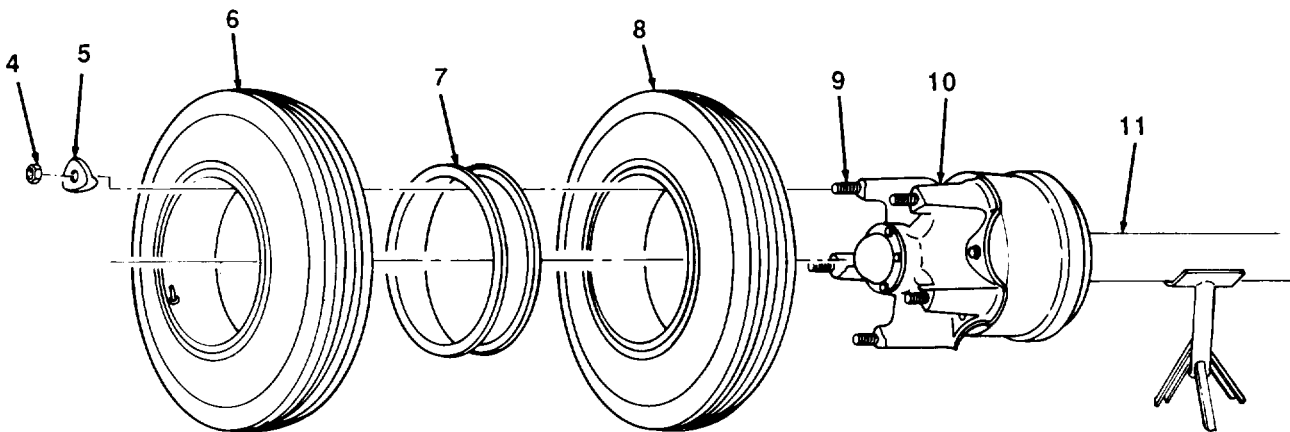
- TM 9-2610-200-24

a. REMOVAL !

1. Disconnect chain link on chain (3) and remove spare tire (2) from spare tire carrier rack (1).



2. Loosen, but do not remove, five nuts (4) from outer wheel (6).
3. Position floor jack under axle (11) near wheels to be removed, and raise semitrailer until wheels are off ground.
4. Remove five nuts (4), clamps (5), and outer wheel (6) from wheel studs (9).



TA508051

4-46. WHEEL AND TIRE MAINTENANCE (Con't).

5. Remove spacer (7) and inner wheel (8) from wheel (10).

b. REPAIR

Refer to TM 9-2610-200-24 for instructions on dismounting and mounting tire and tube, and for repairing tube.

c. INSTALLATION

1. Position inner wheel (8) and spacer (7) on wheel (10).
2. Install outer wheel (6) on wheel studs (9) with five clamps (5) and nuts (4). Tighten nuts fingertight.
3. Lower floor jack until wheels (6 and 8) are on ground. Remove floor jack.
4. Torque five nuts (4) to 200-225 lb.-ft. (271-305 N•m).
5. Install spare tire (2) in spare tire carrier rack (1) and connect chain link on chain (3).

Section X. FRAME AND TOWING ATTACHMENTS MAINTENANCE

Paragraph Title	Page Number
Frame Bumper Replacement.....	4-88
FrontTwist Lock Maintenance (M872A3)	4-91
Gearbox Replacement (M872 and M872A2)	4-100
Landing Leg Replacement.	4-97
Rear Twist Lock Maintenance (M872A3)	4-93
Sling Provisions Replacement..	4-95
Twist Lock Maintenance (All Except M872A3)	4-89

4-47. FRAME BUMPER REPLACEMENT.

This Task Covers: Replacement

Initial Setup:

Materials/Parts:

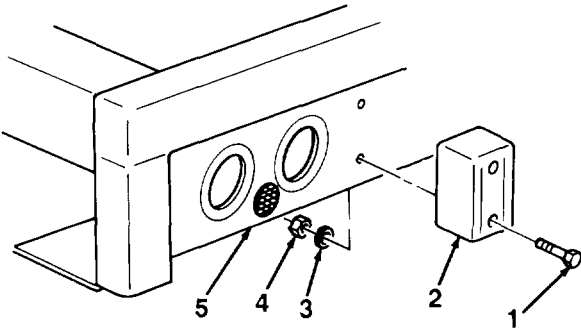
- Two lockwashers

Tools/Test Equipment:

- General mechanic's tool kit

REPLACEMENT

1. Remove two nuts (4), lockwashers (3), bolts (1), and bumper (2) from frame (5). Discard lockwashers.
2. Install bumper (2) on frame (5) with two bolts (1), new lockwashers (3), and nuts(4).



4-48. TWIST LOCK MAINTENANCE (ALL EXCEPT M872A3).

This Task Covers:

- | | |
|----------------------------|-----------------|
| a. Removal | c. Installation |
| b. Cleaning and Inspection | |

Initial Setup:

Materials/Parts:

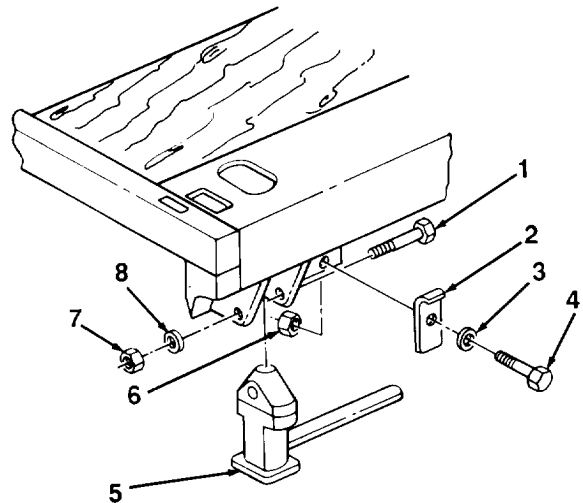
- Wire brush (Item 3, Appendix E)
- Dry cleaning solvent (Item 12, Appendix E)
- Three locknuts

Tools/Test Equipment:

- I General mechanic's tool kit

a. REMOVAL

1. Remove two locknuts (7), flatwashers (8), bolts (1), and twist lock (5) from semitrailer. Discard locknuts.
2. Remove locknut (6), screw (4), flatwasher (3), and handle latch (2) from semitrailer. Discard locknut.



b. CLEANING AND INSPECTION

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

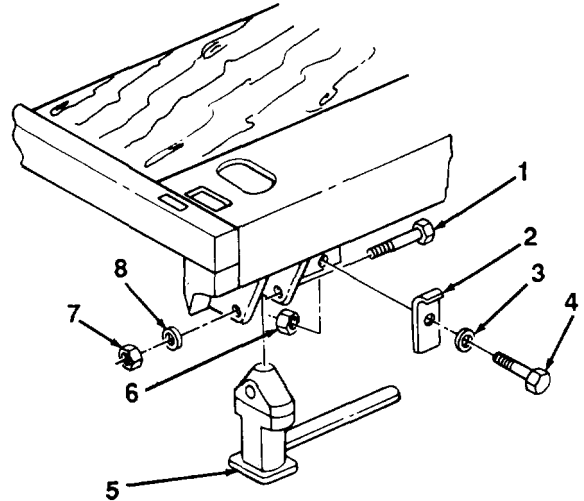
1. Clean all parts with dry cleaning solvent. Remove rust or corrosion with wire brush.
2. Lubricate in accordance with Chapter 3, Section 1.

TA508053

4-48. TWIST LOCK MAINTENANCE (ALL EXCEPT M872A3) (Con't).

c. INSTALLATION

1. Install handle latch (2) on semitrailer with flat-washer (3), screw (4), and new locknut (6).
2. Install twist lock (5) on semitrailer with two bolts (1), flatwashers (8), and new locknuts (7).



TA508054

4-49. FRONT TWIST LOCK MAINTENANCE (M872A3).

This Task Covers:

- | | |
|----------------------------|-----------------|
| a. Removal | d. Assembly |
| b. Disassembly | e. Installation |
| c. Cleaning and Inspection | |
-

Initial Setup:

Materials/Parts:

- Wire brush (Item 3, Appendix E)
- Dry cleaning solvent (Item 12, Appendix E)

Tools/Test Equipment:

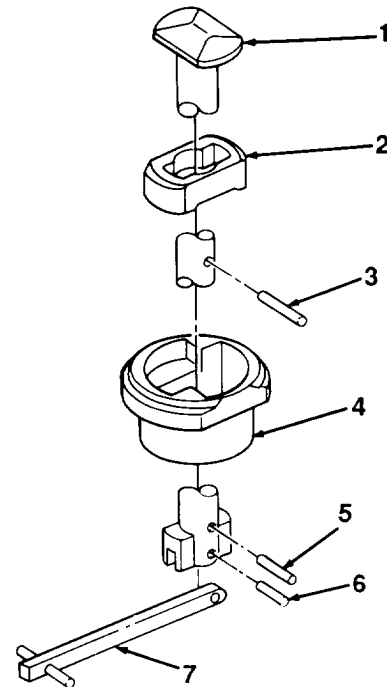
- General mechanic's tool kit
-

a. REMOVAL

1. Remove roll pin (6), groove pin (5), and handle (7) from cone (1).
2. Push upon front twist lock and remove from front twist lock pocket (4).

b. DISASSEMBLY

Remove roll pin (3) and locating trunk (2) from cone (1).



c. CLEANING AND INSPECTION

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

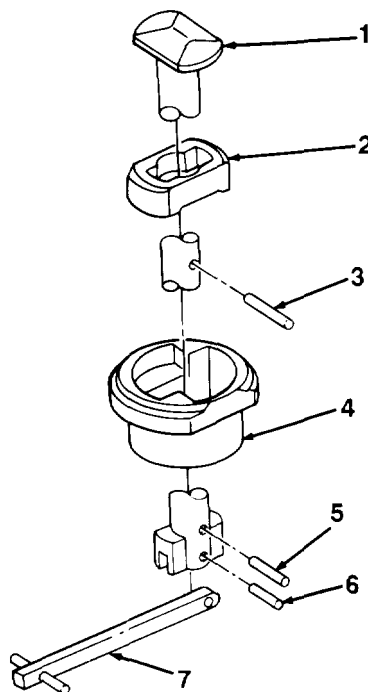
1. Clean all parts with dry cleaning solvent. Remove rust or corrosion with wire brush.
2. Lubricate in accordance with Chapter 3, Section 1.

TA508055

4-49. FRONT TWIST LOCK MAINTENANCE (M872A3) (Con't).

d. ASSEMBLY

Position locating trunk (2) on cone (1) and install roll pin (3).



e. INSTALLATION

1. Position cone (1) in front twist lock pocket (4) and install groove pin (5).
2. Position handle (7) on cone (1) and install roll pin (6).

TA508056

4-50. REAR TWIST LOCK MAINTENANCE (M872A3).

This Task Covers:

- | | |
|----------------------------|-----------------|
| a. Removal | d. Assembly |
| b. Disassembly | e. Installation |
| c. Cleaning and Inspection | |

Initial Setup:

Materials/Parts:

- Wire brush (Item 3, Appendix E)
- Dry cleaning solvent (Item 12, Appendix E)

Tools/Test Equipment:

- General mechanic's tool kit

a. REMOVAL

1. Remove roll pin (10) and handle (11) from cone (1).
2. Remove groove pin (9) and collar (8) from cone (1). Push up on rear twist lock and remove from rear twist lock pocket (7).

b. DISASSEMBLY

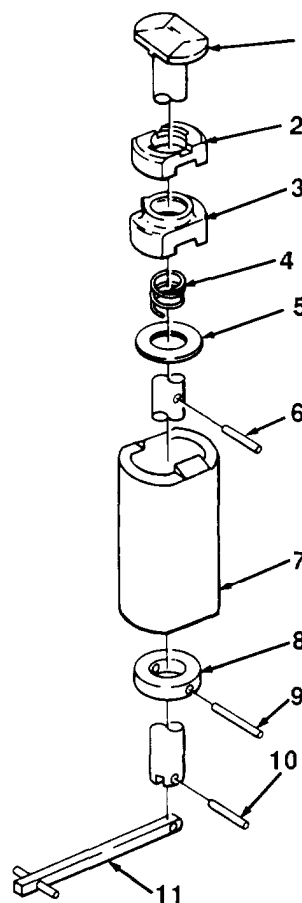
Remove roll pin (6), washer (5), spring (4), centering trunk (3), and locating trunk (2) from cone (1).

c. CLEANING AND INSPECTION

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

1. Clean all parts with dry cleaning solvent. Remove rust or corrosion with wire brush.
2. Lubricate in accordance with Chapter 3, Section 1.

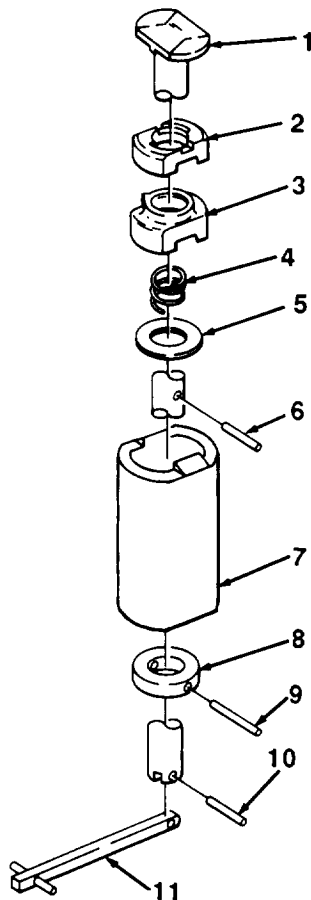


TA508057

4-50. REAR TWIST LOCK MAINTENANCE (M872A3) (Con't).

d . ASSEMBLY

Install locating trunk (2), centering trunk (3), spring (4), and washer (5) on cone (1) with roll pin (6).



e . INSTALLATION

1. Position cone (1) in rear twist lock pocket (7) and install collar (8) and groove pin (9).
2. Position handle (11) on cone (1) and install roll pin (10).

TA508058

4-51. SLING PROVISIONS REPLACEMENT

This Task Covers:

- | | |
|------------------------------------|-------------------------|
| a. Replacement (M872) | c. Replacement (M872A3) |
| b. Replacement (M872A1 and M872A2) | |
-

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Tools/Test Equipment:

- General mechanic's tool kit

Materials/Parts:

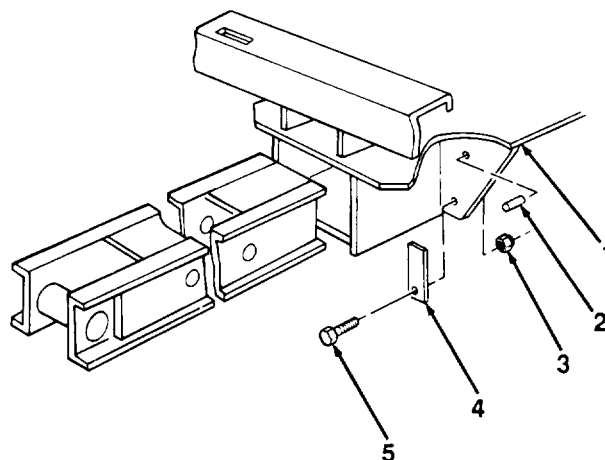
- One locknut (M872)
 - Two cotter pins (M872A3)
-

a. REPLACEMENT (M872)

NOTE

Sling provision replacement for the M872 is limited to replacement of spacer plate. The lift eye is welded into the siderail.

1. Remove pin (2) from siderail (1).
2. Remove locknut (3), screw (5), and spacer plate (4) from siderail (1). Discard locknut.
3. Install spacer plate (4) in siderail (1) with screw (5) and new locknut (3).
4. Install pin (2) in siderail (1).



TA508059

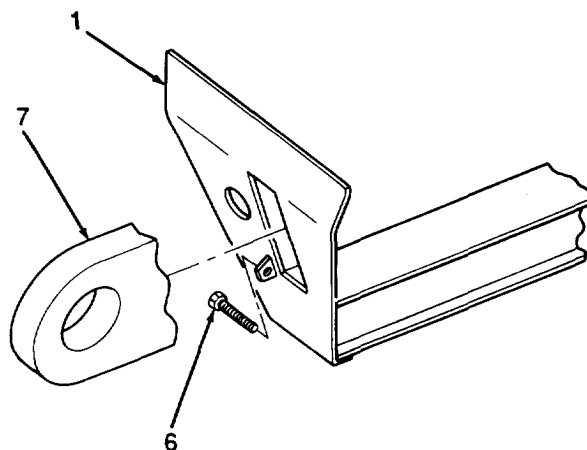
4-51. SLING PROVISIONS REPLACEMENT (Con't).

b. REPLACEMENT (M872A1 AND M872A2)

NOTE

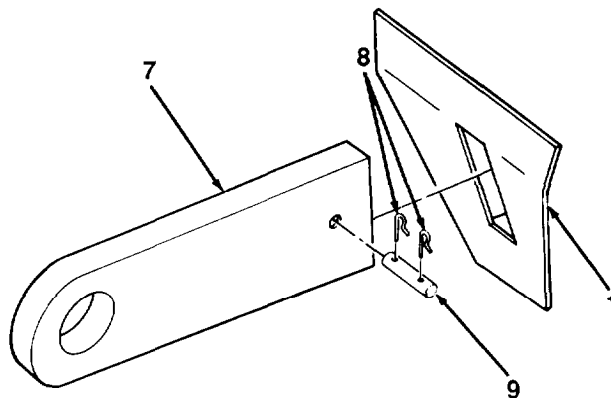
Sling provision replacement for M872A1 and M872A2 is the same except placement of screw may vary.

1. Remove screw (6) and slide lift eye (7) out of siderail (1).
2. Slide lift eye (7) into siderail (1) and install screw (6).



c. REPLACEMENT (M872A3)

1. Remove two cotter pins (8) and pin (9) from lift eye (7). Discard cotter pins.
2. Slide lift eye (7) out and remove from siderail (1).
3. Slide lift eye (7) in siderail (1) and install pin (9) and two new cotter pins (8).



TA508060

4-52. LANDING LEG REPLACEMENT.

This Task Covers:

a. Removal

b. Installation

Initial Setup:

Materials/Parts:

- Twelve lockwashers (all except M872A3)
- Thirteen lockwashers (M872A3)

Tools/Test Equipment:

- General mechanic's tool kit

Personnel Required: Two

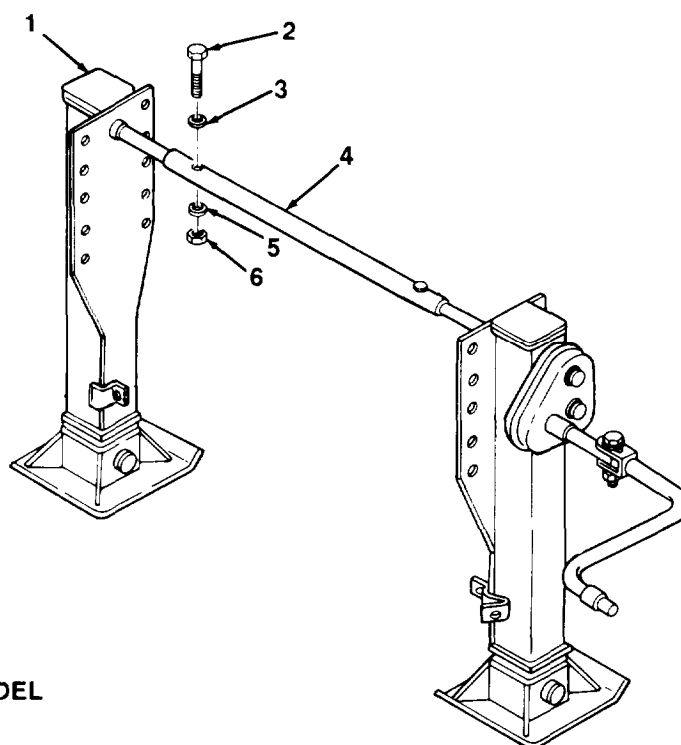
NOTE

- Right and left side landing legs are removed the same way.
- Shaft has been modified on new model landing legs. Old model has a three piece shaft; new model has a two piece shaft.

a. REMOVAL

1. Position suitable support under front of semitrailer.
2. Raise landing legs enough to relieve load from landing gear.
3. Remove two nuts (6), washers (3 and 5), screws (2), and shaft (4) from landing leg (1).

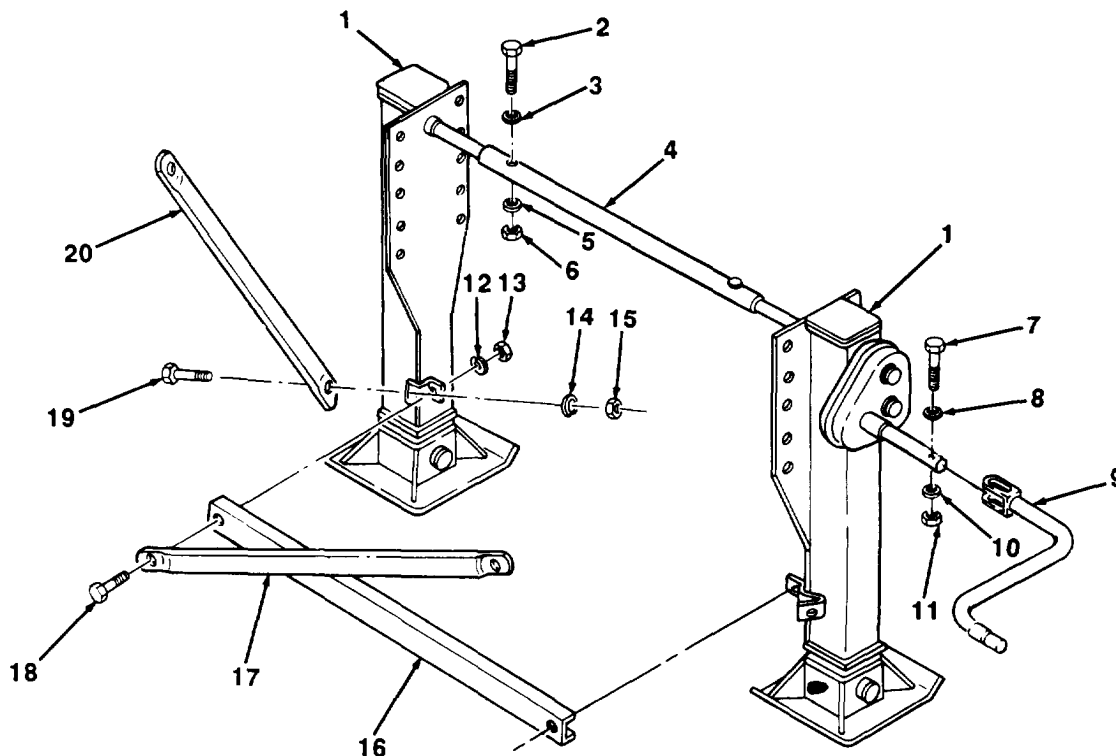
NEW MODEL



TA706581 ■

4-52. LANDING LEG REPLACEMENT (Con't).

4. Remove nut (15), lockwasher (14), screw (19), and brace (20) from landing leg (1). Discard lockwasher.
5. Remove two nuts (13), lockwashers (12), screws (18), brace (17), and cross-brace (16) from landing legs (1). Discard lockwashers.
6. Remove nut (11), washer (10), screw (7'), washer (8), and crank (9) from landing leg (1).

**NEW MODEL**

7. Remove ten nuts (25), lockwashers (24), screws (21), and landing leg (1) from mounting bracket (22). Discard lockwashers.

NOTE

Hanger is on curbside landing leg only.

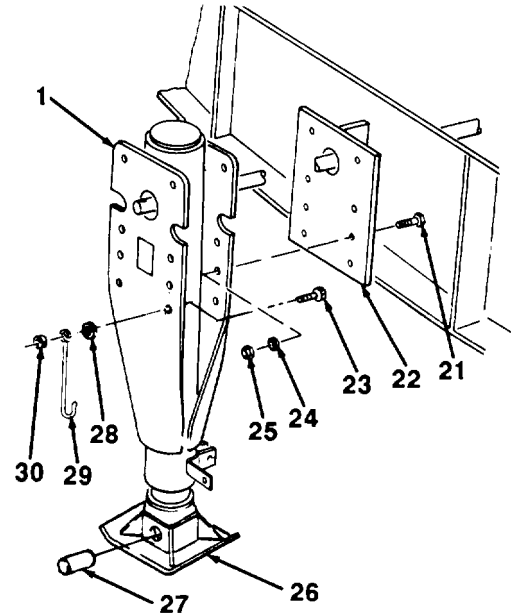
8. Remove nut (30), screw (23), hanger (29), and washer (28) from landing leg (1).
9. Remove pin (27) and shoe (26) from landing leg (1).

TA706582

4-52. LANDING LEG REPLACEMENT (Con't).

b. INSTALLATION

1. Install shoe (26) on landing leg (1) with pin (27).
2. Install washer (28) and hanger (29) on landing leg (1) with screw (23) and nut (30).
3. Install landing leg (1) on mounting bracket (22) with screws (21), new lockwashers (24), and nuts (25).



OLD MODEL

4. Install crank (9) on landing leg (1) with washer (8), screw (7'), washer (10), and nut (11).
5. Install cross-brace (16) and brace (17) on landing legs (1) with screws (18), new lockwashers (12), and nuts (13).
6. Install brace (20) on landing leg (1) with screw (19), new lockwasher (14), and nut (15).
7. Install shaft (4) on landing leg (1) with two screws (2), washers (3 and 5), and nuts (6).

Page 4-100 is rescinded.

TA706583

Section XI. SUSPENSION SYSTEM MAINTENANCE

4-54. RADIUS RODS REPLACEMENT.

This Task Covers:

a. Removal

b. Installation

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Tools/Test Equipment:

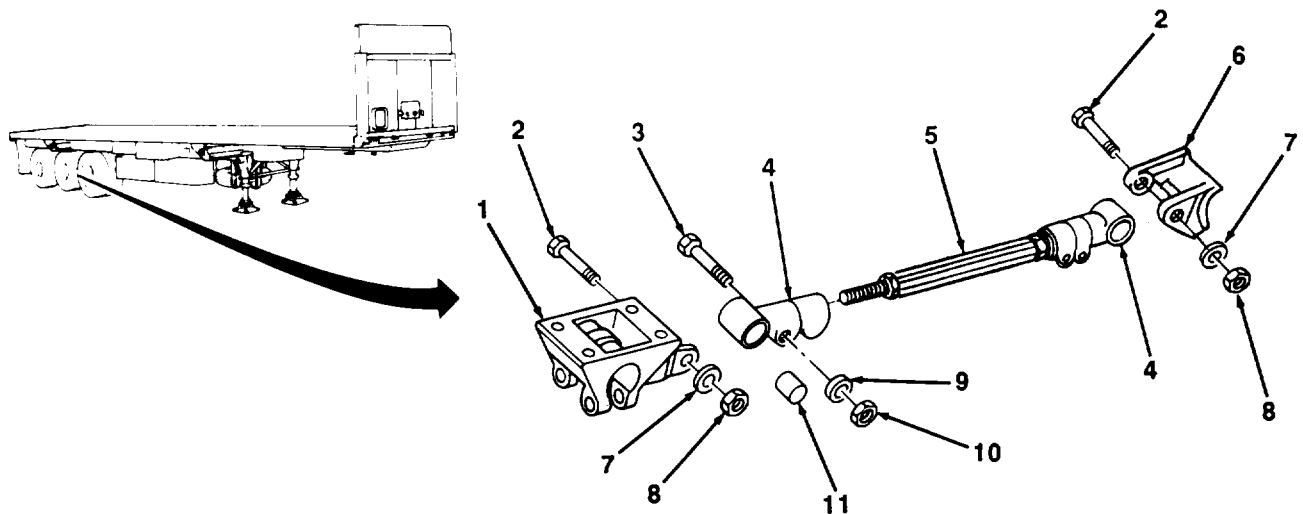
- General mechanic's tool kit

Materials/Parts:

- Two lockwashers
- Four lockwashers

a. REMOVAL

1. Remove two nuts (8), washers (7'), and bolts (2) from radius rod (5), and remove radius rod from axle brackets (1 and 6).
2. Remove two nuts (10), lockwashers (9), screws (3), and two rod ends (4) from radius rod (5). Discard lockwashers.
3. Remove two bushings (11) from rod ends (4).

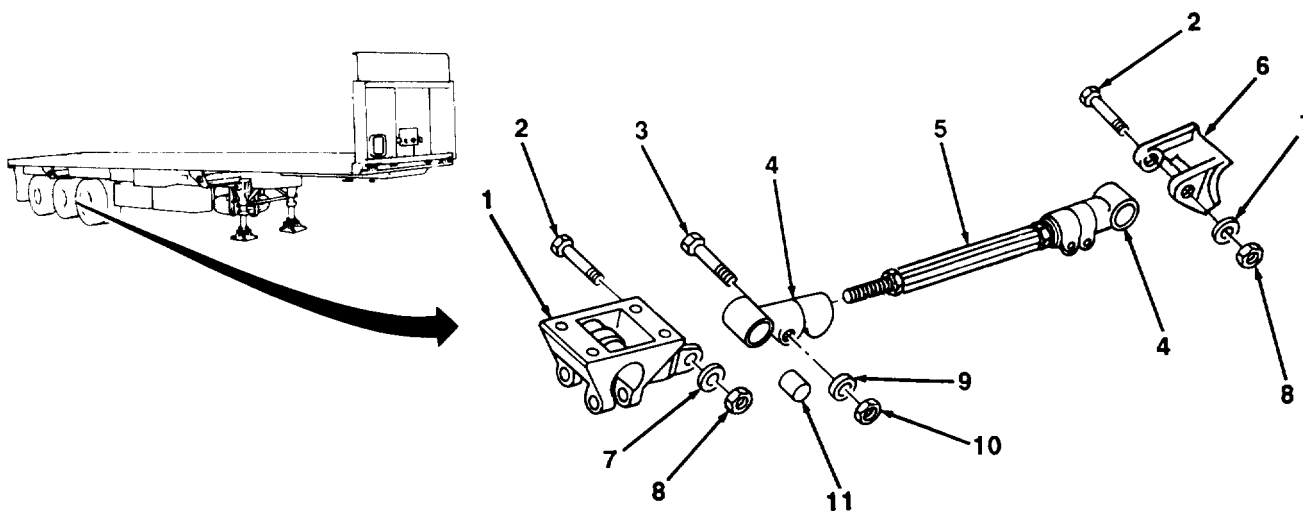


TA706584 ■

4-54. RADIUS RODS REPLACEMENT (Con't).

b. INSTALLATION

1. Install two bushings (11) in rod ends (4).
2. Install two rod ends (4) on radius rod (5) with two screws (3), new lockwashers (9), and nuts (10).
3. Install radius rod (5) on axle brackets (1) with two bolts (2), washers (7), and nuts (8).



FOLLOW-ON TASKS:

- Aline axle (para 4-30).

Section XII. BODY MAINTENANCE

Paragraph Title	Page Number
Mudflap Replacement	4-104
Side Rack and Stowage Compartment Door Handle Replacement (M872)	4-101
Side Rack Repair	4-102
Spare Tire Carrier Chain Replacement (M872A2 and M872A3)	4-105

4-55. SIDE RACK AND STOWAGE COMPARTMENT DOOR HANDLE REPLACEMENT (M872).

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | b. Installation |
|------------|-----------------|

Initial Setup:

Tools/Test Equipment:

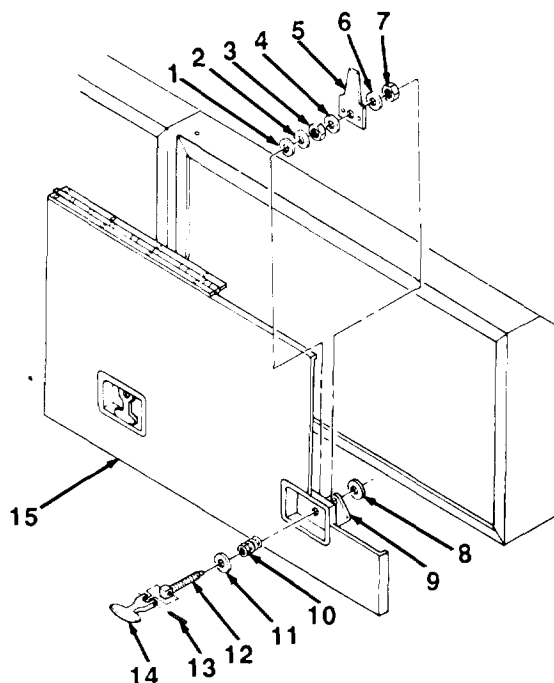
- General mechanic's tool kit

a. REMOVAL

1. Remove retaining ring (8), nut (7), spacer (6), and latch (5) from stud (12).
2. Remove spacer (4), nut (3), retaining ring (2), and spacer (1) from stud (12). Remove stud from stowage door (15).
3. Remove spring (10) and spacer (11) from stud (12).
4. Remove roll pin (13) and stud (12) from handle (14).

b. INSTALLATION

1. Install stud (12) on handle (14) with roll pin (13).
2. Install spacer (11) and spring (10) on stud (12), and insert stud through stowage door (15).
3. Install spacer (1), retaining ring (2), nut (3), and spacer (4) on stud (12).
4. install latch (5), spacer (6), and nut (7) on stud (12).
5. Insert stud (12) through bracket (9) and install retaining ring (8) on stud.



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4-56. SIDE RACK REPAIR.

This Task Covers:

- | | |
|----------------|-------------|
| a. Disassembly | b. Assembly |
|----------------|-------------|

Initial Setup:

Equipment Conditions:

- Side rack removed from semitrailer (para 2-14).

Materials/Parts:

- Three locknuts (all except M872A3)

Tools/Test Equipment:

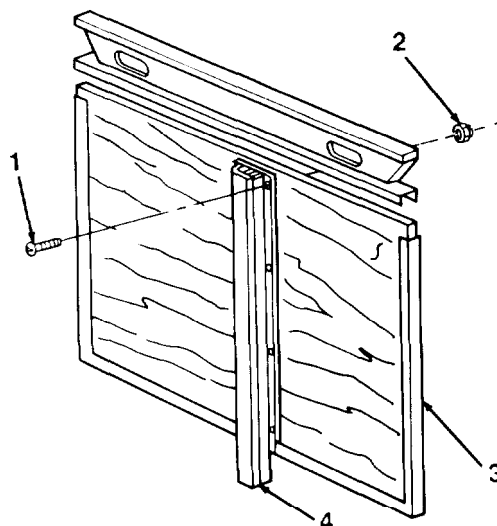
- General mechanic's tool kit

a. **DISASSEMBLY**

NOTE

Step 1 applies to all models except M872A3.

1. Remove three locknuts (2), screws (1), and side stake (4) from side rack (3). Discard locknuts.



NOTE

Steps 2 and 3 apply only to M872A3.

2. Remove three nuts (8), washers (9), and screws (10) from side stake (4) and side rack (3).
3. Remove nut (6), screw (12), and side stake (4) from side rack (3) and protective cap (5).
4. Remove four nuts (7), screws (11), and protective cap (5) from side rack (3).

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4-56. SIDE RACK REPAIR (Con't).

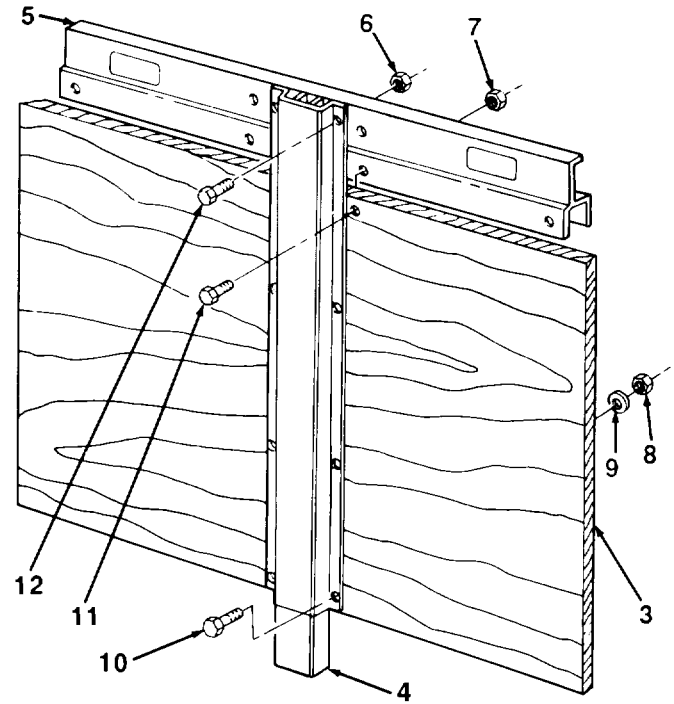
b. ASSEMBLY

1. Install protective cap (5) on side rack (3) with four screws (11) and nuts (7).

NOTE

Steps 2 and 3 apply only to M872A3.

2. Install side stake (4) on side rack (3) with three screws (10), washers (9), and nuts (8).

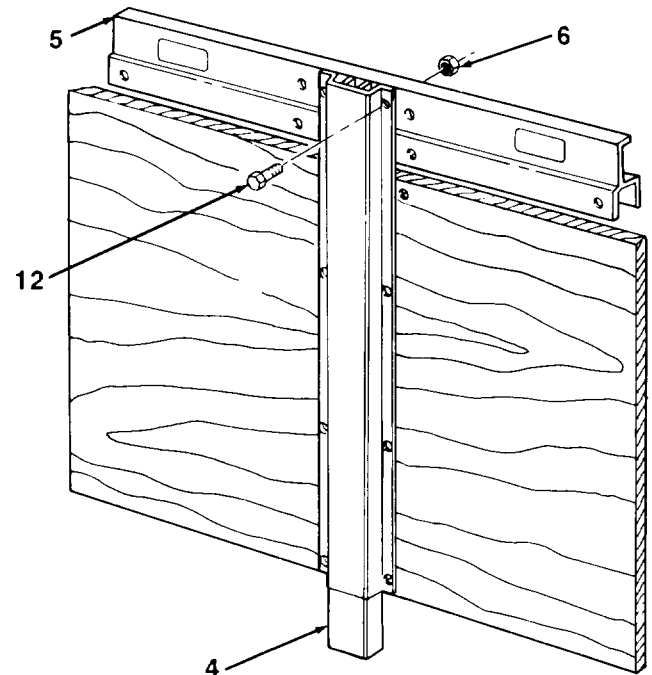


3. Install side stake (4) on protective cap (5) with screw (12) and nut (6).

NOTE

Step 4 applies to all models except M872A3.

4. Install side stake (4) on side rack (3) with three screws (1) and new locknuts (2).



TA508069

4-57. MUDFLAP REPLACEMENT.

This Task Covers: Replacement

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Tools/Test Equipment:

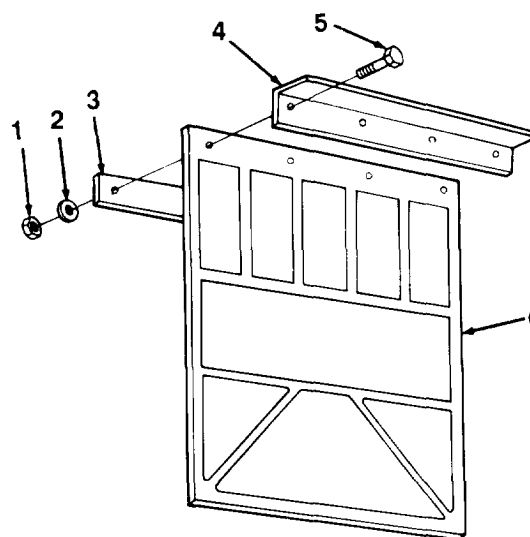
- General mechanic's tool kit
-

Materials/Parts:

- Four lockwashers

REPLACEMENT

1. Remove four nuts (1), lockwashers (2), screws (5), strap (3), and mudflap (6) from bracket (4). Discard lockwashers.
2. Install mudflap (6) and strap (3) on bracket (4) with four screws (5), new lockwashers (2), and nuts (1).



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4-58. SPARE TIRE CARRIER CHAIN AND HOOK REPLACEMENT (M872A2 AND M872A3).

This Task Covers: Replacement

Initial Setup:

Equipment Conditions:

- Spare tire removed.

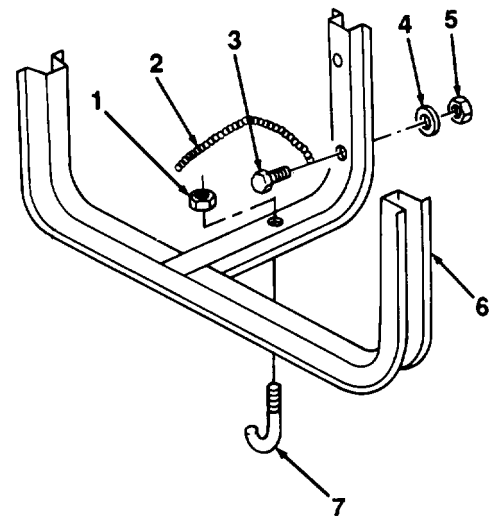
Tools/Test Equipment:

- General mechanic's tool kit
-

REPLACEMENT**NOTE**

■ All spare tire carrier chains and hooks are replaced the same way except quantity of washers may vary.

1. Remove nut (5), washer (4), screw (3), and chain (2) from spare tire carrier (6).
2. Remove nut (1) and hook (7) from spare tire carrier (6).
3. Position chain (2) on spare tire carrier (6) and install screw (3), washer (4), and nut (5).
4. Install hook (7) on spare tire carrier (6) with nut (1).



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Section XIII. ACCESSORY ITEMS MAINTENANCE

Paragraph Title	Page Number
Data Plate Replacement	4-108
Reflector Replacement	4-106

4-59. REFLECTOR REPLACEMENT.

This Task Covers:

- | | |
|------------------------------------|-------------------------|
| a. Replacement (All Except M872A3) | b. Replacement (M872A3) |
|------------------------------------|-------------------------|

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Tool/Test Equipment:

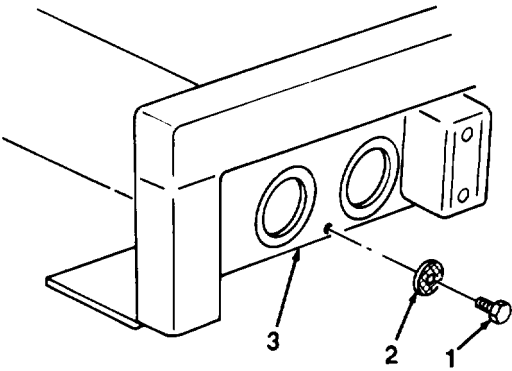
- General mechanic’s tool kit

Materials/Parts:

- One lockwasher (M872A3)

a. REPLACEMENT (ALL EXCEPT M872A3)

1. Remove screw (1) and reflector (2) from frame (3).
2. Install reflector (2) on frame (3) with screw (1).

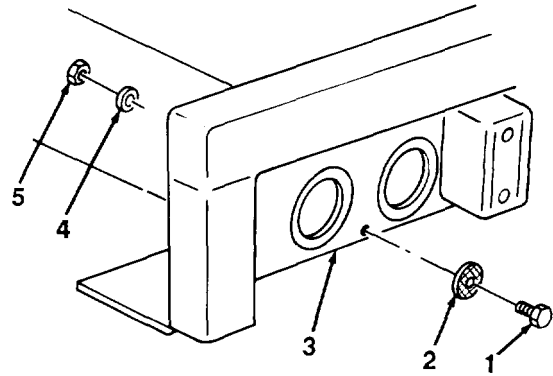


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4-59. REFLECTOR REPLACEMENT (Con't).

b. REPLACEMENT (M872A3)

1. Remove nut (5), lockwasher (4), screw (1), and reflector (2) from frame (3). Discard lockwasher.
2. Install reflector (2) on frame (3) with screw (1), new lockwasher (4), and nut (5).



4-60. DATA PLATE REPLACEMENT

This Task Covers: Replacement

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Tools/Test Equipment:

- General mechanic's tool kit
-

Materials/Parts:

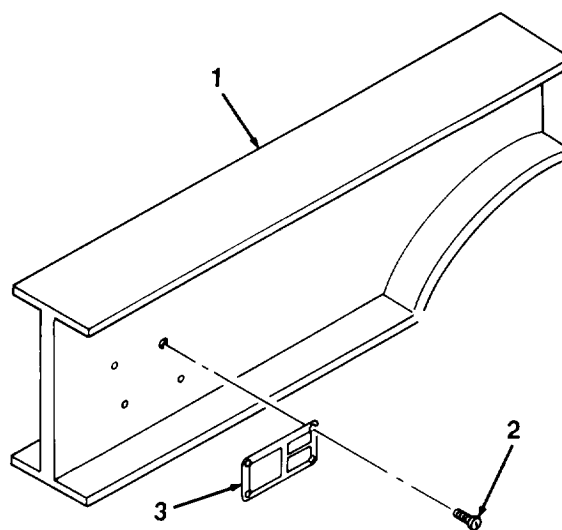
- Four rivets

REPLACEMENT

NOTE

All data plates are replaced the same way except quantity of rivets may vary.

1. Remove four rivets (2) and data plate (3) from frame (1). Discard rivets.
2. Install data plate (3) on frame (1) with four new rivets (2).



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Section XIV. PREPARATION FOR STORAGE OR SHIPMENT

Paragraph Title	Page Number
Care of Equipment in Administrative Storage	4-111
Definition of Administrative Storage.	4-109
Exercise Schedule, Table 4-3	4-111
General	4-109
Preparation of Equipment for Administrative Storage	4-109
Preparation of Equipment for Shipment	4-112
Procedures for Common Components and Miscellaneous items	4-111
Removal of Equipment from Administrative Storage	4-112

4-61. GENERAL.

a. This section contains requirements and procedures for administrative storage of equipment that is issued to and in use by Army activities worldwide.

b. The requirements specified herein are necessary to maintain equipment in administrative storage in such a way as to achieve the maximum readiness condition.

c. Equipment that is placed in administrative storage should be capable of being readied to perform its mission within a 24-hour period, or as otherwise may be prescribed by the approving authority. Before equipment is placed in administrative storage, a current Preventive Maintenance Checks and Services (PMCS) should be completed and deficiencies corrected.

d. Report equipment in administrative storage as prescribed for all reportable equipment.

e. Perform inspections, maintenance services, and lubrication as specified herein.

f. Records and reports to be maintained for equipment in administrative storage are those prescribed by DA Pam 738-750, for equipment in use.

g. A 10% variance is acceptable on time, running hours, or mileage used to determine the required maintenance actions.

h. Accomplishment of applicable PMCS, as mentioned throughout this section, will be on a quarterly basis.

4-62. DEFINITION OF ADMINISTRATIVE STORAGE.

The placement of equipment in administrative storage can be for short periods of time when a shortage of maintenance effort exists. Items should be ready for use within the time factors as determined by the directing authority. During the storage period, appropriate maintenance records will be kept.

4-63. PREPARATION OF EQUIPMENT FOR ADMINISTRATIVE STORAGE.

a. Storage Site.

(1) Select the best available site for administrative storage. Separate stored equipment from equipment in use. Conspicuously mark the area "Administrative Storage."

(2) Covered space is preferred.

(3) Open sites should be improved hardstand, if available. Unimproved sites should be firm, well-drained, and kept free of excessive vegetation.

4-63. PREPARATION OF EQUIPMENT FOR ADMINISTRATIVE STORAGE (Con't).

b. Storage Plan.

- (1) Store equipment so as to provide maximum Protection from the elements and to provide access for inspection, maintenance, and exercising. Anticipate removal or deployment problems and take suitable precautions.
- (2) Take into consideration environmental conditions, such as extreme heat or cold; high humidity; blowing sand, dust, or loose debris; soft ground; mud; heavy snows; or combinations thereof, and take adequate precautions.
- (3) Establish a fire plan and provide for adequate firefighting equipment and personnel.

c. Maintenance Services and Inspection.

- (1) **Maintenance Services.** Prior to storage, perform the next scheduled organizational PMCS.
- (2) **Inspection.** Inspect and approve the equipment prior to storage. Do not place equipment in storage in a nonmission-capable condition.

d. Auxillary Equipment and Basic Issue Items.

- (1) Process auxiliary equipment and basic issue items simultaneously with the major item to which they are assigned.
- (2) If possible, store auxiliary equipment and basic issue items with the major item.
- (3) If stored apart from the major item, mark auxiliary equipment and basic issue items with tags indicating the major item, its registration or serial number and location, and store in protective type closures. In addition, place a tag or list indicating the location of the removed items in a conspicuous place on the major item.

e. Correction of Shortcomings and Deficiencies. Correct all shortcomings and deficiencies prior to storage, or obtain a deferment from the approving authority.

f. Lubrication. Lubricate equipment in accordance with instructions in Chapter 3, Section 1.

g. General Cleaning, Painting, and Preservation.

CAUTION

Do not direct water or steam, under pressure, against unsealed electrical systems or any exterior opening. Failure to follow this caution may result in damage to equipment.

- (1) **Cleaning.** Clean the equipment of dirt, grease, and other contaminants, but do not use vapor decreasing.
- (2) **Painting.** Remove rust and damaged paint by scraping, wire brushing, sanding, or buffing. Sand to a smooth finish and spot paint as necessary (TB 43-0209).
- (3) **Preservation.** After cleaning and drying, immediately coat unpainted metal surfaces with oil or grease, as appropriate (Chapter 3, Section I).

CAUTION

Place a piece of barrier material (item 1, Appendix E) between desiccant bags and metal surfaces.

NOTE

Air circulation under draped covers reduces deterioration from moisture or heat.

(4) **Weatherproofing.** Sunlight, heat, moisture (humidity), and dirt tend to accelerate deterioration. Install all covers (including vehicle protective closures) authorized for the equipment. Close and secure all openings except those required for venting and draining. Seal openings to prevent the entry of rain, snow, or dust. Insert desiccant when complete seal is required. Place equipment and provide blocking or framing to allow for ventilation and water drainage. Support cover away from item surfaces which may rust, rot, or mildew.

4-64. CARE OF EQUIPMENT IN ADMINISTRATIVE STORAGE.

a. Maintenance Services. After equipment has been placed in administrative storage, inspect, service, and exercise as specified herein.

b. Inspection. Inspection will usually be visual and must consist of at least a walk-around examination of all equipment to detect any deficiencies. Inspect equipment in open storage weekly and equipment in covered storage monthly. Inspect all equipment immediately after any severe storm or environmental change. The following are examples of things to look for during a visual inspection:

- (1) Low or flat tires.
- (2) Condition of preservatives, seals, and wraps.
- (3) Corrosion or deterioration.
- (4) Missing or damaged parts.
- (5) Water in compartments.
- (6) Any other readily recognizable shortcomings or deficiencies,

c. Repair During Administrative Storage. Keep equipment in an optimum state of readiness. Accomplish the required services and repairs as quickly as possible. Whenever possible, perform all maintenance on-site.

d. Exercising. Exercise equipment in accordance with Table 4-3, *Exercise Schedule*, and the following instructions.

(1) **Vehicle Major Exercise.** Depreserve equipment by removing only that material restricting exercise. Close all drains, remove blocks, and perform all before-operation checks. Couple semitrailer to towing vehicle, and drive for at least 25 mi (40 km). Make several right and left 90° turns. Make several hard braking stops without skidding. Do the following during exercising when it is convenient and safe: operate all other functional components and perform all during- and after-operation checks.

(2) **Scheduled Services.** Scheduled services will include inspection per subparagraph b above, and will be conducted in accordance with Table 4-3. Lubricate in accordance with instructions in Chapter 3, Section 1.

(3) **Corrective Action.** Immediately take action to correct shortcomings and deficiencies noted. Record inspection and exercise results on DA Form 2404. Record and report all maintenance actions on DA Form 2407. After exercising, restore the preservation to the original condition. Replenish lubricants used during exercising, and note the amount on DA Form 2408.

Table 4-3. Exercise Schedule

Weeks	2	4	6	8	10	12	14	16	18	20	22	24
PMCS						X						X
Scheduled Services		X		X		X		X		X		
Major Exercise												X

e. Rotation. Rotate items in accordance with any rotational plan that will keep the equipment in an operational condition and reduce the maintenance effort.

4-65. PROCEDURES FOR COMMON COMPONENTS AND MISCELLANEOUS ITEMS.

a. Tires. Visually inspect tires during each walkaround inspection. This inspection includes checking tires with a tire gage. Inflate, repair, or replace as necessary those found to be low, damaged, or excessively worn. Mark inflated and repaired tires with a crayon for checking at the next inspection.

b. Air Lines and Air Reservoir. Drain air lines and air reservoir of condensation, and leave draincock open. Attach a caution tag, annotated to provide for closing of draincock when the equipment is exercised. Place tags in a conspicuous location.

4-65. PROCEDURES FOR COMMON COMPONENTS AND MISCELLANEOUS ITEMS (Con't).

c. **Seals.** Seals may develop leaks during storage, or shortly thereafter. If leaking persists, refer to the applicable maintenance section in this manual for corrective maintenance procedures.

4-66. REMOVAL OF EQUIPMENT FROM ADMINISTRATIVE STORAGE.

a. **Activation.** Restore the equipment to normal operating condition in accordance with the instructions contained in Chapter 4, Section II.

b. **Servicing.** Resume the maintenance service schedule in effect at the commencement of storage, or service the equipment before the scheduled dates in order to produce a staggered maintenance workload.

4-67. PREPARATION OF EQUIPMENT FOR SHIPMENT

a. Refer to TM 55-601 and TM 743-200-1 for additional instructions on processing, storage, and shipment of materiel.

b. Semitrailers that have been removed from storage for shipment do not have to be reprocessed if they will reach their destination within the administrative storage period. Reprocess only if inspection reveals any corrosion, or if anticipated in-transit weather conditions make it necessary.

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

CHAPTER 5

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

Section I. BRAKE SYSTEM MAINTENANCE

5-1. BRAKESHOE REPAIR.

This Task Covers:

- | | |
|---|--|
| <ul style="list-style-type: none"> a. Brakeshoe Lining Removal b. Cleaning and Inspection | <ul style="list-style-type: none"> c. Brakeshoe Lining Installation |
|---|--|
-

Initial Setup:

Equipment Conditions:

- Brakeshoes removed (para 4-31).

Tools/Test Equipment:

- General mechanic's tool kit
- Field automotive shop set
- Brake and clutch reliner

Materials/Parts:

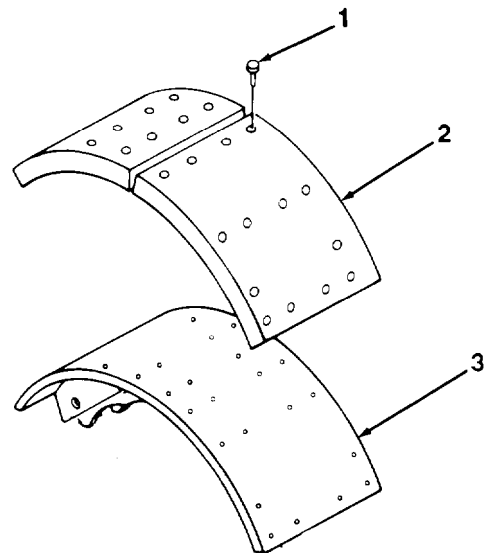
- Wire brush (Item 3, Appendix E)
 - Dry cleaning solvent (Item 12, Appendix E)
 - Twenty-four rivets
-

a. BRAKESHOE LINING REMOVAL

NOTE

All brakeshoe linings are removed the same way except quantity of rivets may vary.

Remove twenty-four rivets (1) and brakes hoe linings (2) from brakeshoe (3). Discard rivets.



5-1. BRAKESHOE REPAIR (Con't).

b. CLEANING AND INSPECTION

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and DO NOT breathe vapors. DO NOT use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

1. Clean brakeshoes with dry cleaning solvent and a wire brush. Allow to air dry.
2. Inspect brakeshoes for cracks and breaks. Replace brakeshoes if cracked or broken.

c. BRAKESHOE LINING INSTALLATION

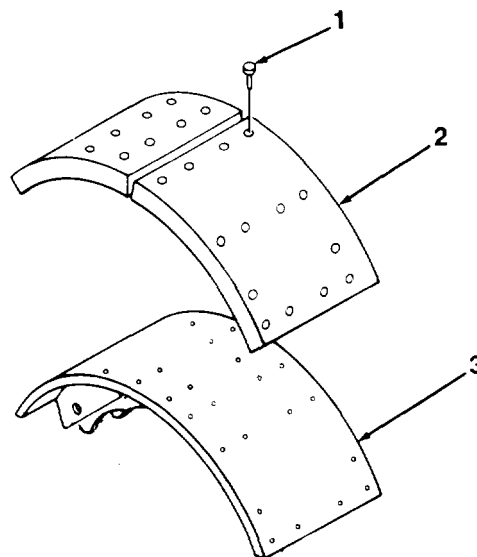
WARNING

If any brakeshoes are replaced, replace all brakeshoes on that axle. Combination of old shoes with new shoes will cause uneven braking. Accidents causing serious injury or death to personnel or damage to equipment may result.

NOTE

All brakeshoe linings are installed the same way except quantity of rivets may vary.

Install brakeshoe linings (2) on brakeshoe (3) with twenty-four new rivets (1).

**FOLLOW-ON TASKS:**

- Install brakeshoes (para 4-31).
- Adjust service brakes (para 4-31).

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Section II. BRAKEDRUM AND TIRE MAINTENANCE

Paragraph Title	Page Number
Brakedrum Repair	5-3
Tire Repair	5-4

5-2. BRAKEDRUM REPAIR.

This Task Covers:

- a. Inspection
- b. Repair

Initial Setup:

Equipment Conditions:

- Brakedrum removed (para 4-44).

Tools/Test Equipment:

- General mechanic's tool kit
- Field automotive shop set
- Brakedrum lathe
- Dial Indicator
- Inside micrometer, with extension

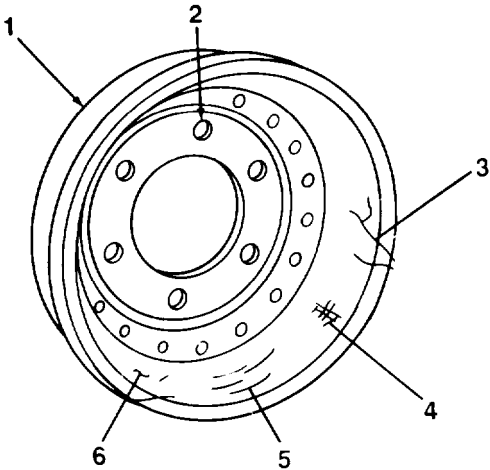
a. INSPECTION

1. Inspect stud holes (2) for cracks. Discard brake-drum (1) if cracks are present.

WARNING

DO NOT use a brakedrum that exceeds maximum wear specifications. Failure to follow this warning may result in brake failure and serious injury or death to personnel.

2. Inspect braking surface (6) for cracks (3), heat checking (4), and scoring (5). Reface braking surface if damaged (subpara b).
3. Inspect braking surface (6) for out-of-round condition. If out-of-round, reface braking surface (subpara b).
4. Measure inside diameter of brakedrum (1). Discard brakedrum if inside diameter exceeds 16.62 in. (42.2 cm).



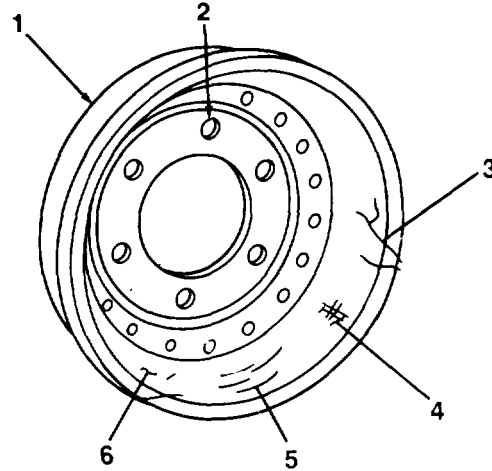
5-2. BRAKEDRUM REPAIR (Con't).

b. REPAIR

WARNING

DO NOT use a brakedrum that exceeds maximum wear specifications. Failure to follow this warning may result in brake failure and serious injury or death to personnel.

1. Reface braking surface (6) with brakedrum lathe, removing as little metal as possible to true friction surface.
2. Discard brakedrum (1) if refinishing required removal of more than $\frac{1}{16}$ in. (1.59 mm) of material.



FOLLOW-ON TASKS:

- Install hub and brakedrum (para 4-44).

5-3. TIRE REPAIR.

Refer to TM 9-2610-200-24 for instructions on tire repair.

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Section III. FRAME AND TOWING ATTACHMENTS MAINTENANCE

Paragraph Title	Page Number
Frame Repair	5-5
Kingpin Replacement (M872 Southwest Model)	5-5
Kingpin Replacement (M872 Theurer Model)	5-8
Kingpin Replacement (M872A1 and M872A3)	5-10
Kingpin Replacement (M872A2)	5-11
Landing Leg Repair	5-13

5-4. FRAME REPAIR.

Refer to TM 9-237 for instructions on frame repair.

5-5. KINGPIN REPLACEMENT (M872 SOUTHWEST MODEL).

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | b. Installation |
|------------|-----------------|

Initial Setup:

Equipment Conditions:

- Wheels chocked.

References:

- TM 9-237

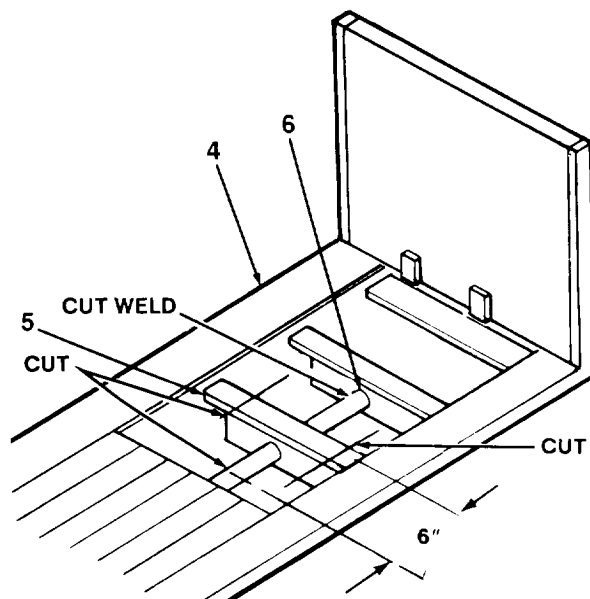
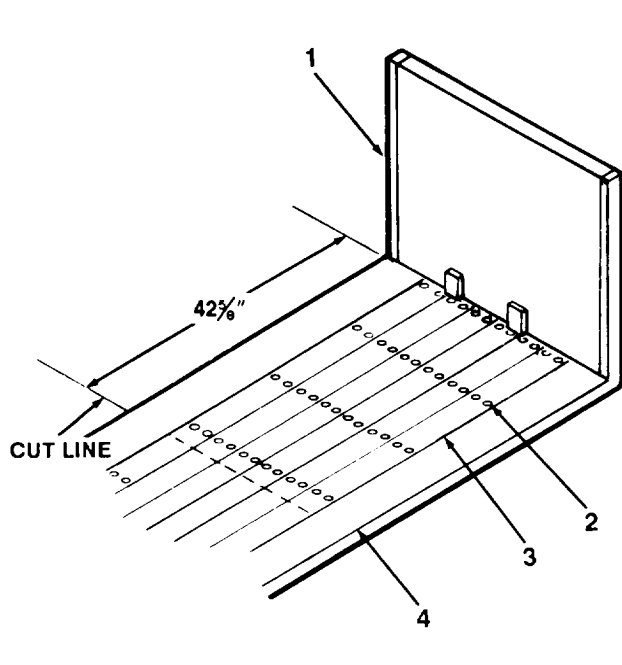
Tools/Test Equipment:

- General mechanic's tool kit
- Field automotive shop set
- Welder's tool kit
- 1/4 in. apex bit (Item 1, Appendix D)

5-5. KINGPIN REPLACEMENT (M872 SOUTHWEST MODEL) (Con't).

a. REMOVAL

1. Remove first four rows of screws (2) from six front floor boards (3) between main beams (4).
2. Mark a line across floor boards (3) approximately $42\frac{5}{8}$ in. (108.3 cm) from front of bulkhead (1). Cut boards approximately $1\frac{1}{4}$ in. (3.2 cm) deep. Remove floor boards.
3. Remove eight screws and nose box cover from nose box.
4. Tag and disconnect wires from electrical receptacles.
5. Tag and disconnect service and emergency air lines inside nose box (para 4-38).
6. Pull service and emergency air lines at back of fifth wheel until they are out of conduit (6) above kingpin. Ensure that air lines are clear of cutting and welding area.
7. Cut conduit (6) 6 in. (15.2 cm) from center of crossmember (5), and cut weld holding front of conduit to crossmember.



8. Cut crossmember (5) on each side of inside main beams (4). Remove crossmember section and conduit section.
9. Measure $8\frac{1}{2}$ x $10\frac{1}{2}$ in. (21.6 x 26.7 cm) rectangle plate on kingpin plate. Cut and remove rectangle plate.
10. Remove kingpin.

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5-5. KINGPIN REPLACEMENT (M872 SOUTHWEST MODEL) (Con't).

b. INSTALLATION**NOTE**

Refer to TM 9-237 for welding instructions.

1. Install and weld kingpin.
2. Install 8 $\frac{1}{2}$ x 10 $\frac{1}{2}$ in. (21.6 x 26.7 cm) rectangle plate over kingpin base and weld.
3. Remove any remaining parts of screws from crossmembers if heads were cut off during removal.
4. Slide section of crossmember (5) over section of conduit (6) and weld crossmember and conduit.
5. Thread wires and air lines forward through conduit (6).
6. Connect service and emergency air lines and wires in nose box (para 4-19 and 4-38).
7. Install nose box cover on nose box with eight screws.
8. Install six front floor boards (3) with screws (2).

5-6. KINGPIN REPLACEMENT (M872 THEURER MODEL).

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | b. Installation |
|------------|-----------------|

Initial Setup:

Equipment Conditions:

- Wheels chocked.

References:

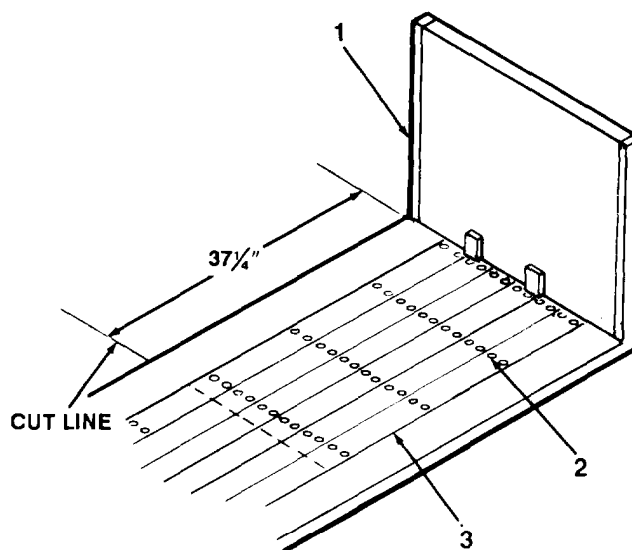
- TM 9-237

Tools/Test Equipment:

- General mechanic's tool kit
- Field automotive shop set
- Welder's tool kit

a. REMOVAL

1. Mark a line across floor boards (3) approximately $37\frac{1}{4}$ in. (94.6 cm) from rear of bulkhead (1), Cut floor boards approximately $1\frac{3}{8}$ in. (3.5 cm) deep.
2. Remove screw (2). Remove floor boards (3).



3. Measure $18\frac{3}{4}$ in. (47.6 cm) from side of semitrailer and $8\frac{3}{4}$ in. (22.2 cm) from edge of floor boards. Mark centerpoint.
4. Measure $2\frac{1}{2}$ in. (6.4 cm) to front and rear of centerpoint and mark front and rear lines across kingpin cover plate.
5. Measure 6 in. (15.2 cm) to right and left of centerpoint and mark right and left lines across kingpin cover plate.

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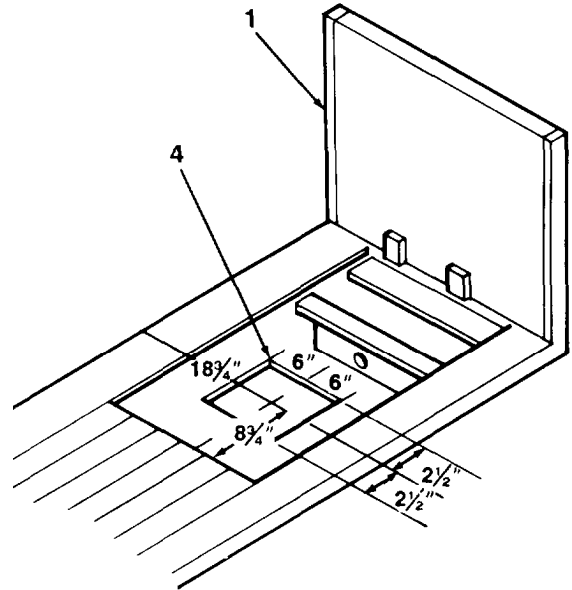
5-6. KINGPIN REPLACEMENT (M872 THEURER MODEL) (Con't).

6. Cut and remove rectangle (4) from kingpin cover plate. Enlarge rectangle as required to remove kingpin.

CAUTION

Use care not to damage bolster plate and crossmembers when removing kingpin.

7. Remove kingpin.



b . INSTALLATION

NOTE

- Refer to TM 9-237 for welding instructions.
- Ensure that collar depth of replacement kingpin is the same as the old kingpin.

1. Grind bolster plate smooth so that replacement kingpin lies flat on plate. Install and weld kingpin.
2. Cover access hole with a 13 x 6 1/2 in. (33 x 16.5 cm) steel plate 1/4 in. (6.4 mm) thick. Weld plate.
3. Install floor boards (3) on semitrailer with screws (2).

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5-7. KINGPIN REPLACEMENT (M872A1 AND M872A3).

This Task Covers:

- | | |
|------------|-----------------|
| a. Removal | b. Installation |
|------------|-----------------|

Initial Setup:

Equipment Conditions:

- Wheels chocked.

References:

- TM 9-237

Tools/Test Equipment:

- General mechanic's tool kit
- Field automotive shop set
- Welder's tool kit

a. REMOVAL

1. Measure $22\frac{1}{4}$ in. (56.5 cm) from rear of bulkhead and $18\frac{1}{2}$ in. (47 cm) from either seam of center plate. Mark centerpoint.

NOTE

Measurement In steps 2 and 3 should be in line with spot welds.

2. Measure 36 in. (91.4 cm) from rear of bulkhead on center plate. Mark a line across center plate.
3. Measure $12\frac{3}{4}$ in. (32.4 cm) from rear of bulkhead. Mark a line across center plate.
4. Air-arc welds and remove center plate.

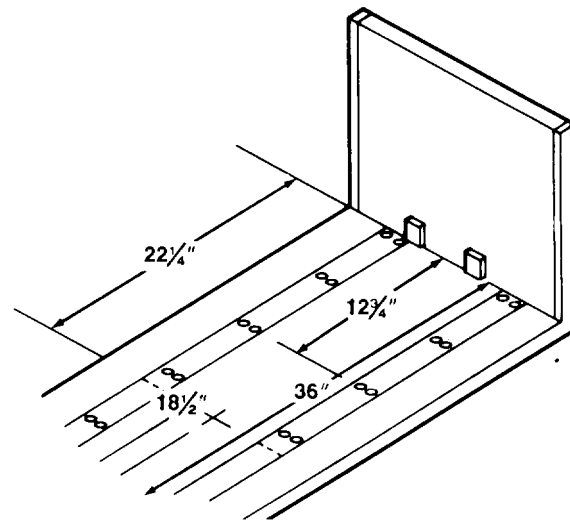
CAUTION

Service and emergency air lines and wires from nose box run under center plate. Pull wires and lines to one side to prevent damage.

5. Air-arc welds and remove kingpin.

b. INSTALLATION

1. Weld kingpin in place and position service and emergency air lines and wires to middle of semitrailer.
2. Weld center plate into place.



5-8. KINGPIN REPLACEMENT (M872A2).

This Task Covers:

- | | |
|---------------------------------|--------------------------------------|
| a. Removal (Unmodified Kingpin) | c. Installation (Unmodified Kingpin) |
| b. Removal (Modified Kingpin) | d. Installation (Modified Kingpin) |

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Materials/Parts:

- Marker tags (Item 13, Appendix E)

Tools/Test Equipment:

- General mechanic's tool kit

References:

- TM 9-237

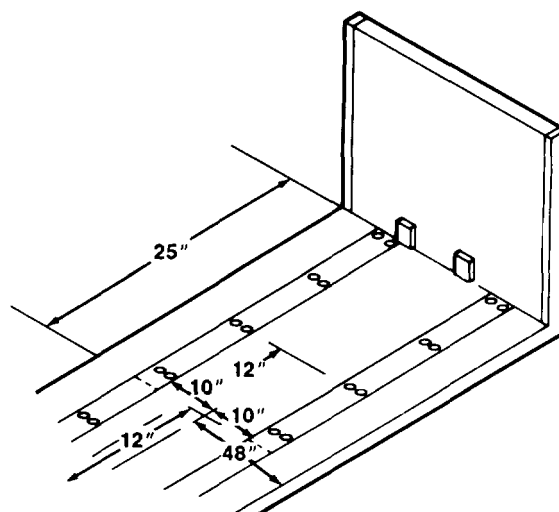
a. REMOVAL (UNMODIFIED KINGPIN)

1. Measure 48 in. (122 cm) from side of semitrailer and 25 in. (83.5 cm) from rear of bulkhead (1). Mark centerpoint.
2. Measure 12 in. (30.5 cm) to front and rear of centerpoint and mark front and rear lines across three middle plates.

CAUTION

Service and emergency air lines and wires run under the center plate. Use air-arc to cut and remove entire center plate.

3. Mark plate on each side of centerpoint for a 10 in. (25.4 cm) cut centered on kingpin. Remove plate on each side.
4. Pull service and emergency air lines and wires to either side and cut kingpin welds. Remove kingpin.

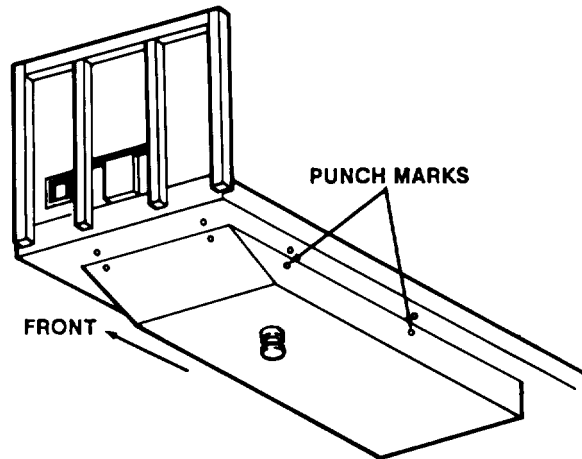


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5-8. KINGPIN REPLACEMENT (M872A2) (Con't).

b. REMOVAL (MODIFIED KINGPIN)

1. Center punch kingpin plate and kingpin adapter plate to aid in installation.
2. Position suitable lifting device under kingpin adapter plate.
3. Air-arc welds around kingpin adapter plate, work plate loose, and lower.
4. Remove kingpin.



c. INSTALLATION (UNMODIFIED KINGPIN)

NOTE

Refer to TM 9-237 for welding instructions.

1. Weld new kingpin in place.
2. Position service and emergency air lines and wires to middle of semitrailer.
3. Weld center plate and two side plate sections in place.

d. INSTALLATION (MODIFIED KINGPIN)

NOTE

Refer to TM 9-237 for welding Instructions.

1. Install kingpin in kingpin adapter plate and weld.
2. Position kingpin adapter plate on semitrailer with suitable lifting device and weld.

5-9. SPARE TIRE CARRIER REPLACEMENT

Refer to TM 9-237 for replacement instructions. Spare tire carrier is welded to frame.

Pages 5-13 through 5-16 are rescinded.

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Section IV. SUSPENSION SYSTEM MAINTENANCE

Paragraph Title	Page Number
Springs and Equalizing Beams Replacement	5-17
Trunnion Replacement	5-19

5-11. SPRINGS AND EQUALIZING BEAMS REPLACEMENT.

This Task Covers:

- | | |
|----------------------------|-----------------|
| a. Removal | c. Installation |
| b. Cleaning and Inspection | |

Initial Setup:

Equipment Conditions:

- Axles removed (center axle only for spring removal) (para 4-30).
- Trunnion bushing removed (equalizing beam removal only) (para 4-45).

Materials/Parts:

- Dry cleaning solvent (Item 12, Appendix E)
- Two locknuts

Personnel Required: Two

Tools/Test Equipment:

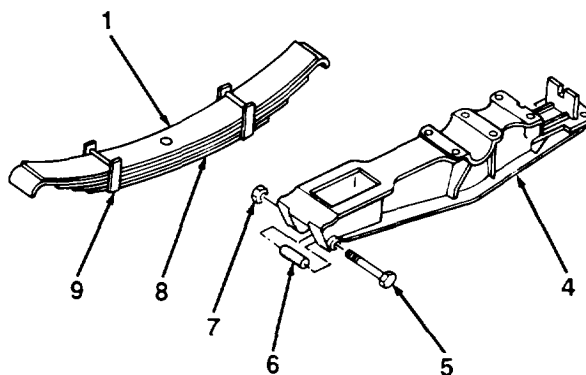
- General mechanic's tool kit

a. REMOVAL

NOTE

Springs are removed the same way on all models except M872A3 does not have pipe spacer.

1. Remove two locknuts (7), screws (5), and pipe spacer (6) from springs (1) and equalizing beam (4). Discard locknuts.
2. Remove springs (1) and equalizing beam (4) from semitrailer.



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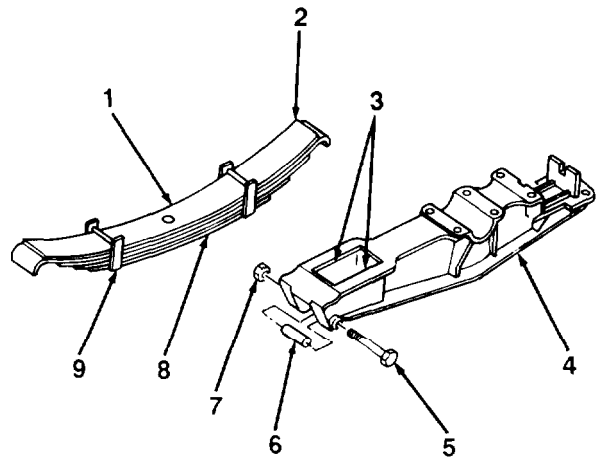
5-11. SPRINGS AND EQUALIZING BEAMS REPLACEMENT (Con't).

b. CLEANING AND INSPECTION

WARNING

Dry cleaning solvent, P-D-680, is toxic and flammable. Always wear protective goggles and gloves, and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes, and **DO NOT** breathe vapors. **DO NOT** use near open flame or excessive heat. The solvent's flash point is 100°F-138°F (38°C-59°C). If you become dizzy while using cleaning solvent, immediately get fresh air and medical help. If solvent contacts eyes, immediately wash your eyes and get medical aid.

1. Clean springs and equalizing beam with dry cleaning solvent.
2. Inspect leaves (8) and clips (9) for cracks and breaks. Inspect lower leaf of main spring at contact of spring bearing seat for excessive wear. Replace spring if damaged.
3. Inspect equalizing beam for structural cracks or damage. Inspect spring hangers (2) for cracks. Replace defective components.
4. Inspect thickness of equalizing beam walls (3). Equalizing beam wall measurement should read $4\frac{3}{8}$ in. (111.1 mm). If wear exceeds 1/4 in. (6.35 mm), replace equalizing beam.



c. INSTALLATION

NOTE

Springs are installed the same way on all models except M872A3 does not have pipe spacer.

1. Position equalizing beam (4) and springs (1) on semitrailer.
2. Install pipe spacer (6) on springs (1) and equalizing beam (4) with screw (5) and new locknut (7).

FOLLOW-ON TASKS:

- Install trunnion bushing (para 4-45).
- Install axles (para 4-30).

5-12. TRUNNION REPLACEMENT.

This Task Covers:

a. Removal

b. Installation

Initial Setup:

Equipment Conditions:

- Equalizing beams removed (para 5-11).

References:

- TM 9-247
- TB 9-2300-247-40

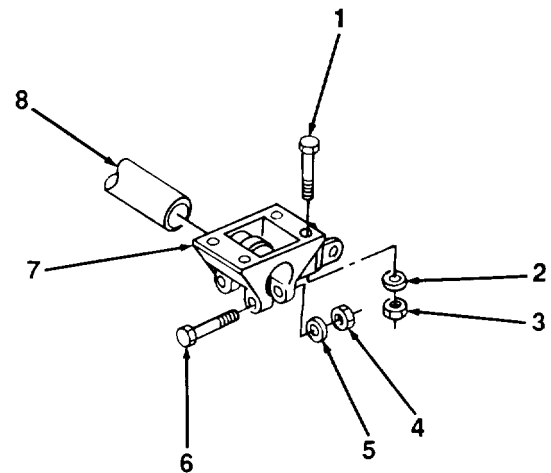
Tools/Test Equipment:

- General mechanic's tool kit
- Welder's tool kit

Personnel Required: Two

a. REMOVAL

1. Cut welds on trunnion (8).
2. Remove four nuts (4), flatwashers (5), and bolts (6) from bracket (7) and frame.
3. Remove two nuts (3), flatwashers (2), bolts (1), and bracket (7) from trunnion (8).
4. Repeat steps 1 through 3 for other side of trunnion (8).



b. INSTALLATION

NOTE

Refer to TM 9-237 for welding instructions and TB 9-2300-247-40 for frame repair instructions.

1. Spot weld topside inboard of trunnion (8) to bracket (7). Install two bolts (1), flatwashers (2), and nuts (3) on bracket and trunnion. Torque nuts 250 lb.-ft. (339 N•M).
2. Install bracket (7) or frame with four bolts (6), flatwashers (5), and nuts (4).

FOLLOW-ON TASKS:

- Install equalizing beams (para 5-11).

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Section V. BODY MAINTENANCE

5-13. FLOOR REPLACEMENT.

This Task Covers:

Replacement

Initial Setup:

Equipment Conditions:

- Wheels chocked.

Tools/Test Equipment:

- General mechanic's tool kit
- 1/4 in. apex bit (Item 1, Appendix D)

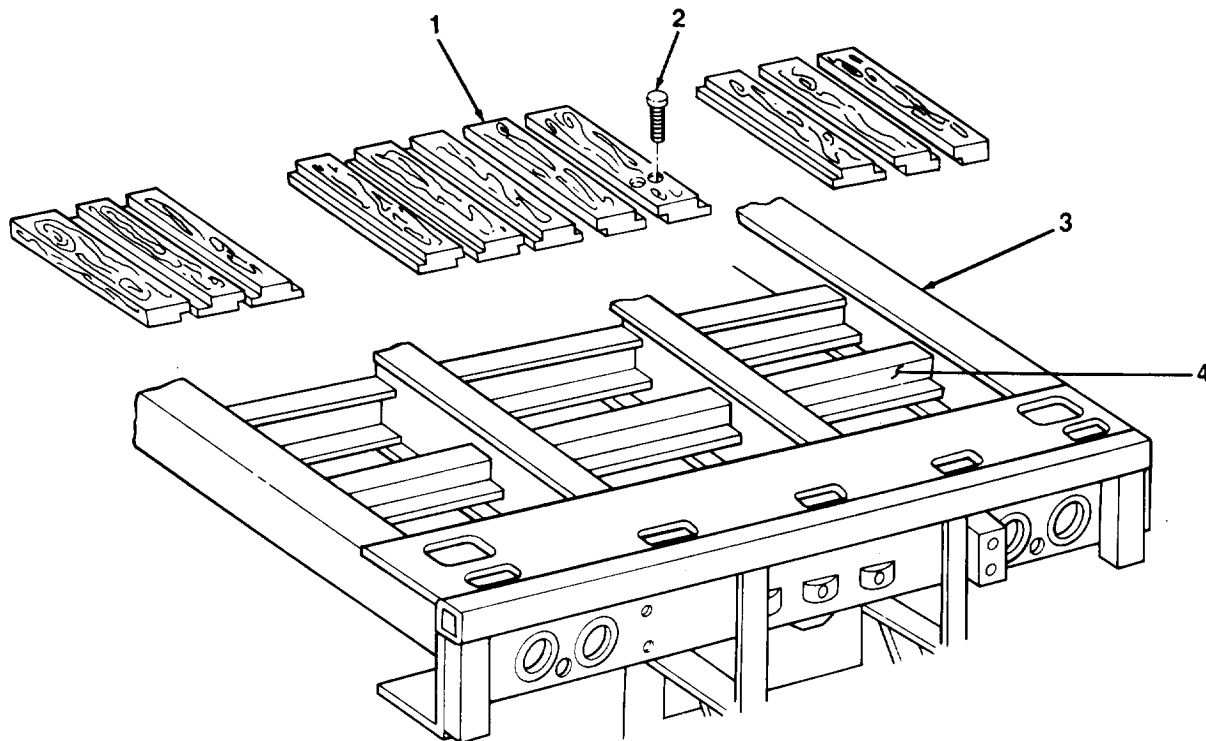
REPLACEMENT

1. Remove screw (2) and damaged section of floor boards (1) from frame (3).
2. Using floor boards (1) as a template, cut new floor boards.
3. Place board (1) into position on crossmember (4).
4. Drill 9/32 in. diameter hole through two boards (1) and crossmember (4).

NOTE

The cut ends of boards must be centered on a crossmember.

5. Install new floor board (1) on frame (3) with screws (2).
6. Repeat steps 1 through 3 for remaining boards (1) that were removed.



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Section V. BODY MAINTENANCE

5-14. BULKHEAD EXTENSION FABRICATION AND INSTALLATION.
(M872A1, M872A2, M872A3)

This Task Covers:

a. Fabrication

b. Installation

Initial Setup:

Equipment Conditions:

- Landing gear down
- Wheels chocked

Tools/Test Equipment:

- General mechanic's tool kit
- 9/16" drill bit
- Brake press with 96" bed
- SC5180-90-N39 Sets, Kits & Outfits, Tool Kit,

Welders

Materials/Parts

- Fold-over channel steel plate, specifications under FABRICATION
- 4 crossmembers, specifications under FABRICATION

- 2 hinge lugs, specifications under FABRICATION
- Hinge fold-over, quantity and specifications under FABRICATION
- 4 hinge pins, specifications under FABRICATION
- 2 lock pins NSN 5315-01-231-5983, P/N AN 415-5, Cage 88044
- 2 welded chains NSN 4010-00-757-9556, P/N 42-C-16750, Cage 80244
- 2 2 pins, specifications under FABRICATION

References

- TB 9-237 Operator's Manual: Welding Theory and Application

Personnel Required

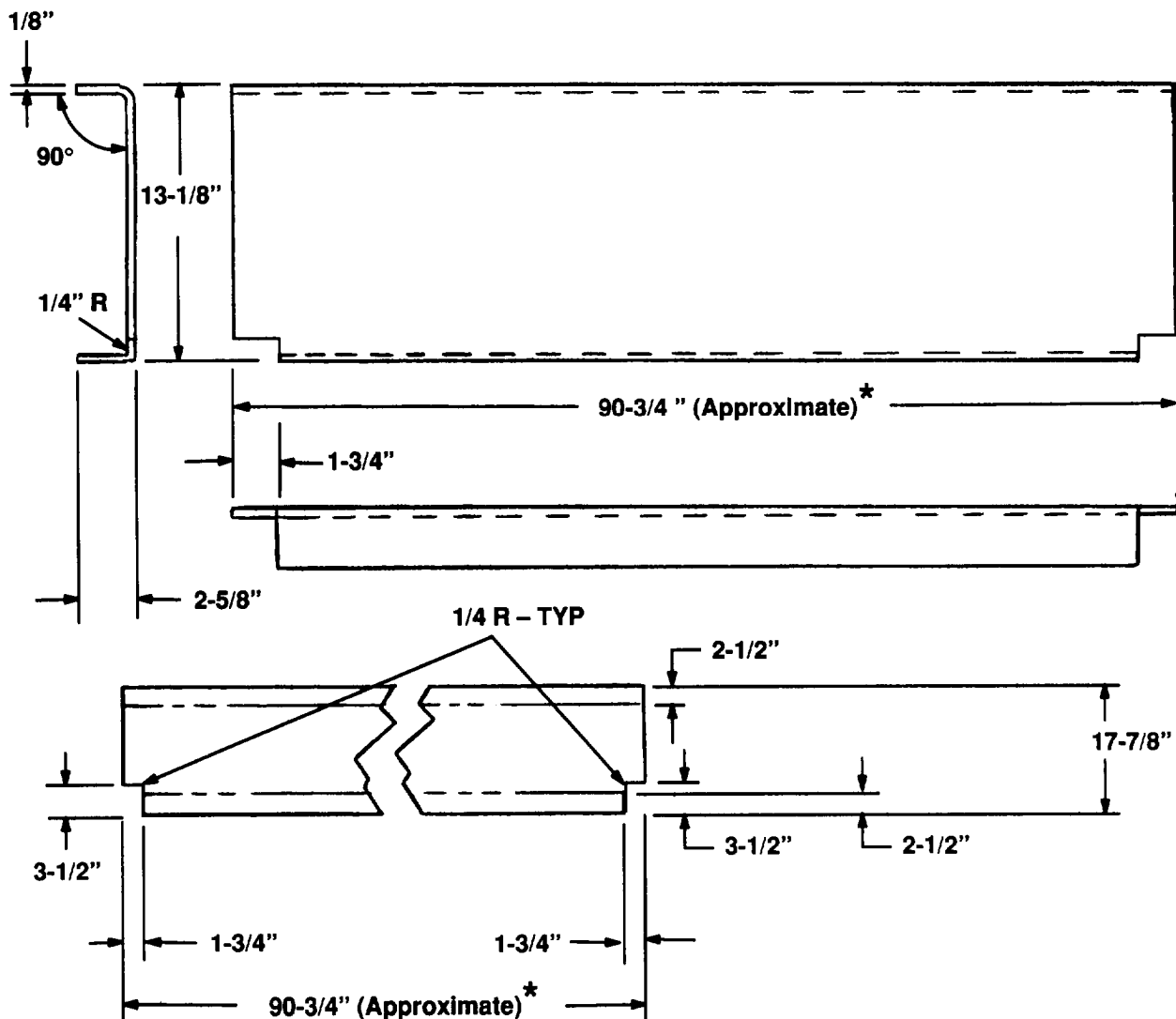
- Two
-

FABRICATION

NOTE

If your brake press cannot bend 10 gauge steel, fold-over channel fabrication may be required by outside contractor.

1. Form fold-over channel.



Flat Pattern

Fold-over channel

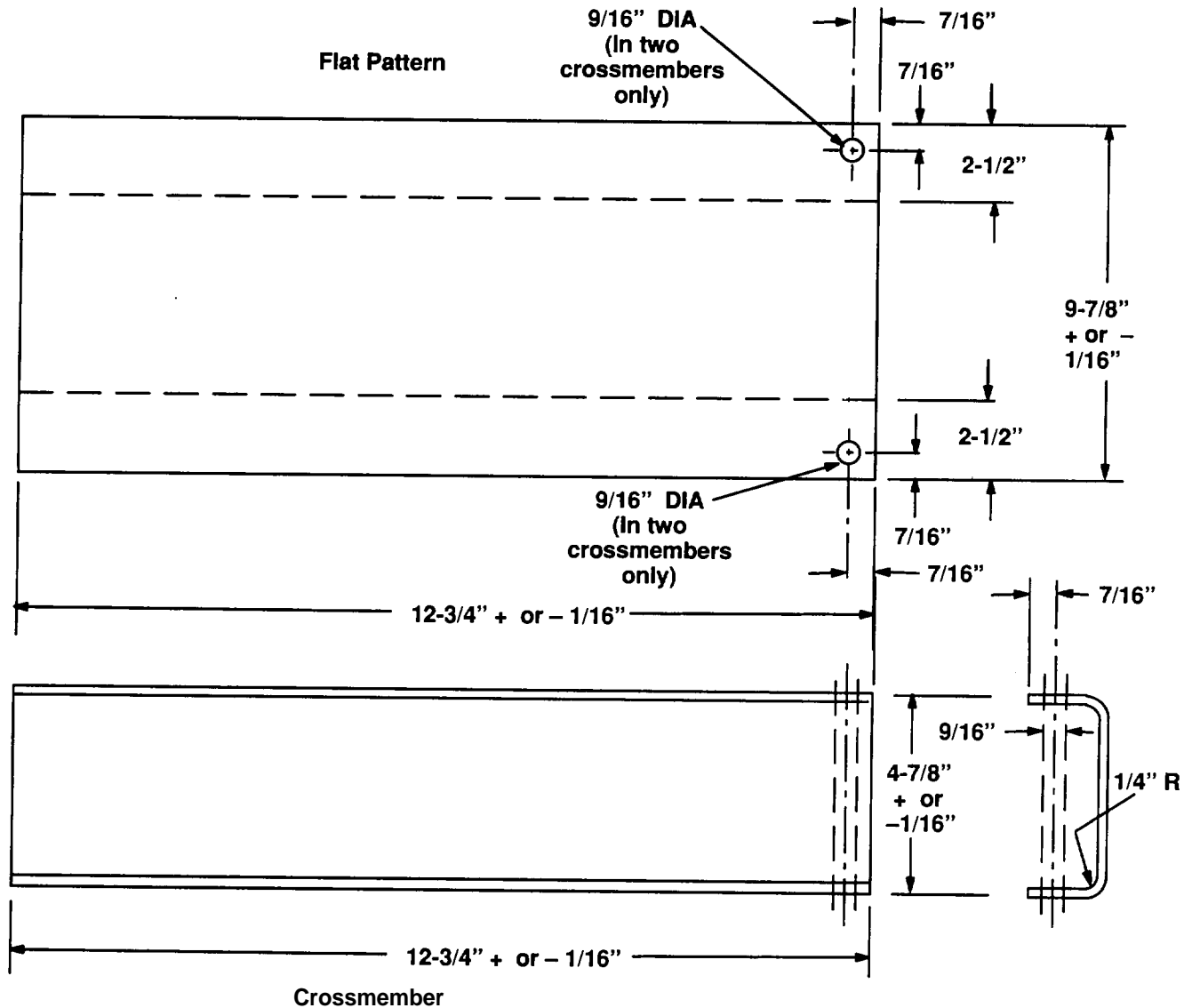
Material: 10GA X 17-7/8" X 90-3/4"
LG Hot Rolled Commercial Quality
Steel that meets ASTM A569

* Measurement is approximate.
Measure width of trailer bulkhead at
interior dimension to side racks before
fabrication to obtain best fit. If
fold-over channel is too wide it will not
fold down between side racks.

NOTE

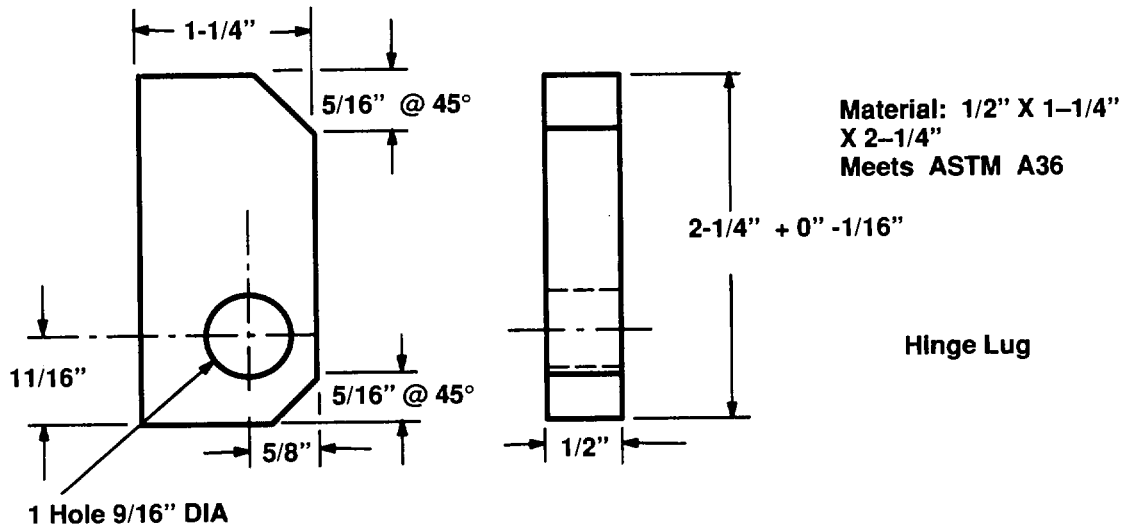
If your brake press cannot bend 10 gauge steel, fabrication of four crossmembers may be required by outside contractor.

2. Build four crossmembers. In two crossmembers, drill the 9/16" diameter holes as shown.

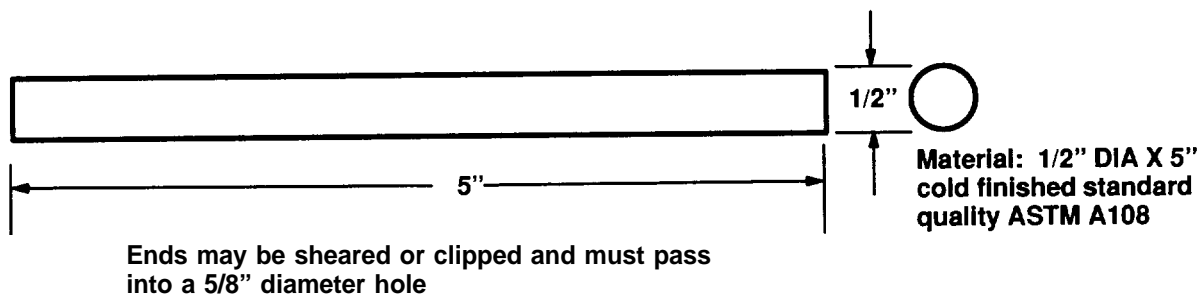
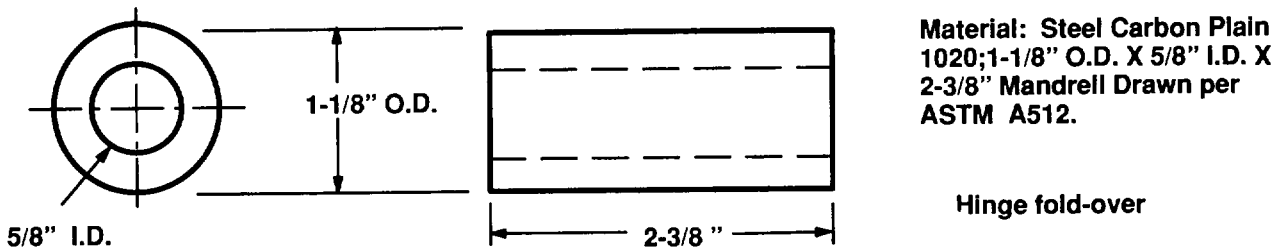


Material: 10GA X 9-7/8" X 12-3/4"
 LG Hot Rolled Commercial Quality
 Steel that meets ASTM A569

3. Fabricate two hinge lugs. Remove all existing hinge from bulkhead. Replacement fabrication requires one on outboard side of each outer crossmember.



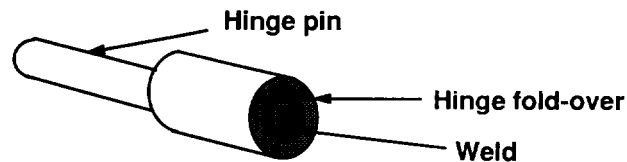
4. Fabricate up to eight hinge fold-overs and four hinge pins. There should be four hinge fold-overs on the fold-over channel and four on the bulkhead body. Count hinges that can still be used on bulkhead and make correct number of hinge fold-overs and four hinge pins.



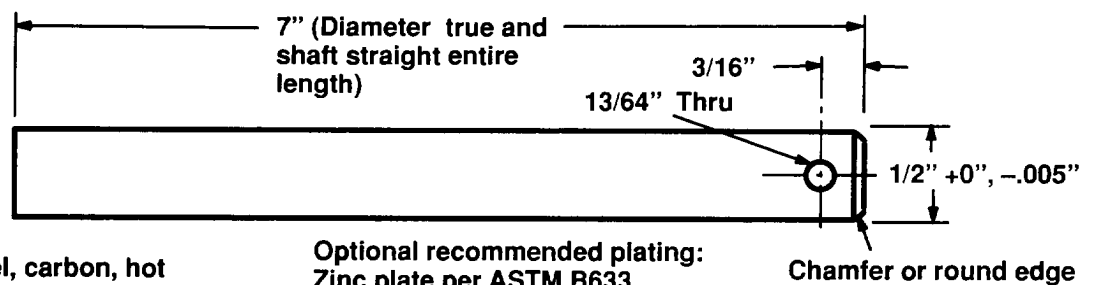
5. Insert hinge pin in a hinge fold-over and weld one end of pin flush to hinge fold-over end. Repeat three times for a total of four hinge fold-overs with hinge pin assemblies.

NOTE

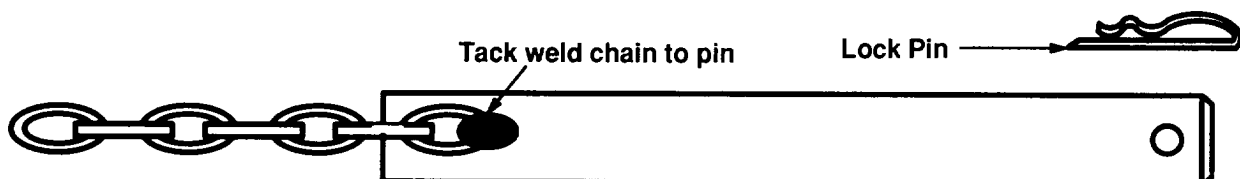
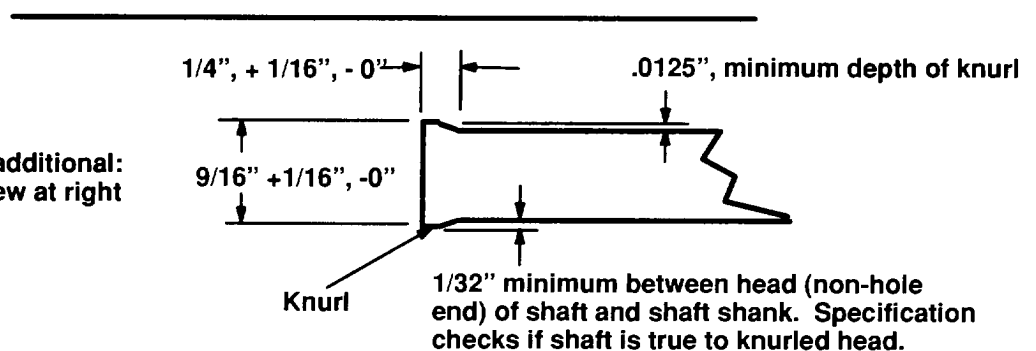
General Welding Notes: Welding to be done in accordance with MIL-STD-1261, CLASS 2. All fillet welds to be 1/8-inch minimum.



6. Assemble two pin and chain assemblies from the following parts: two lock pins (NSN 5315-01-231-5983), two welded chains (NSN 4010-00-757-9556) and two pins, built to illustration below.



Knurl optional and additional: knurling steps in view at right

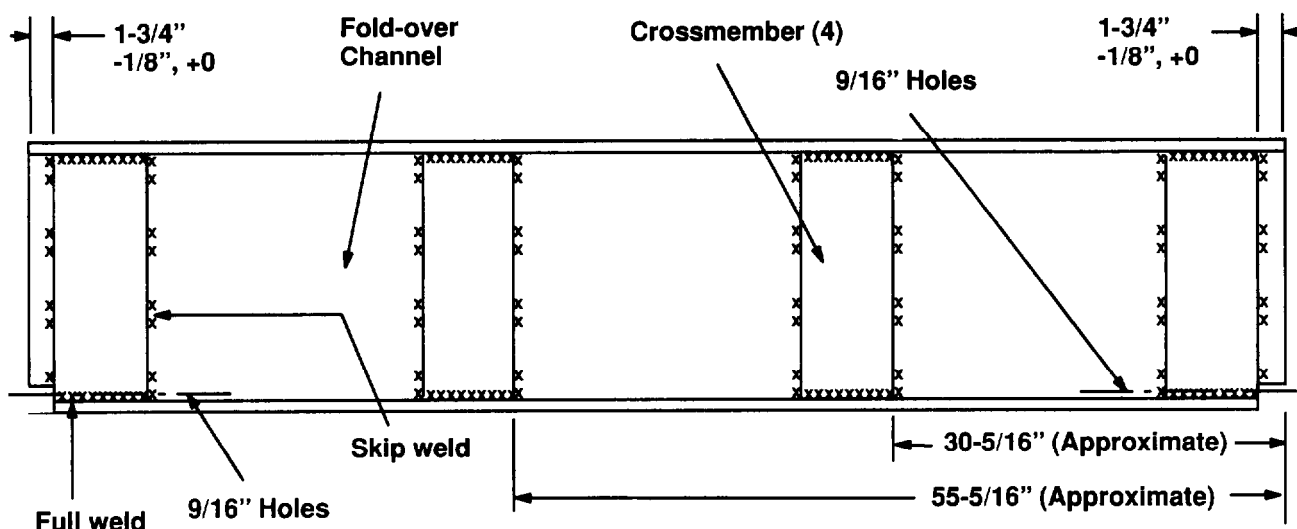


Assembly and Installation

GENERAL WELDING NOTES

Welding to be done in accordance with MIL-STD-1261, CLASS 2. All fillet welds to be 1/8-inch minimum.

1. Space and position four crossmembers as shown with concave or sunken sides facing fold-over channel. Make sure both outboard crossmembers have drilled holes and hole ends are positioned by channel cut-outs. Weld each crossmember to channel, using four skip welds on each side and full welds on each end. Skip welds are approximately 1-1/2 inch long with 2- inch spacing between welds.



WARNING

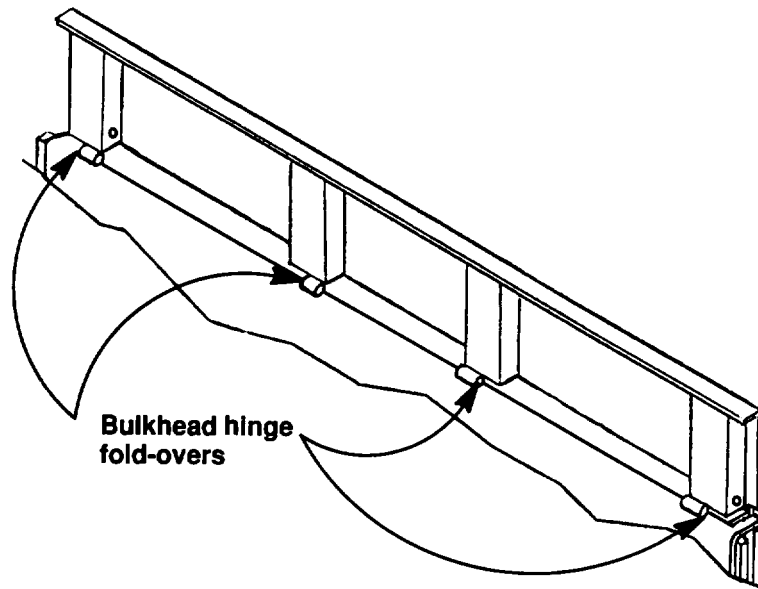
Bulkhead extension weighs 80 to 90 lbs. To avoid injury, use two people to lift and position the extension.

2. Lift and position fold-over channel on bulkhead.

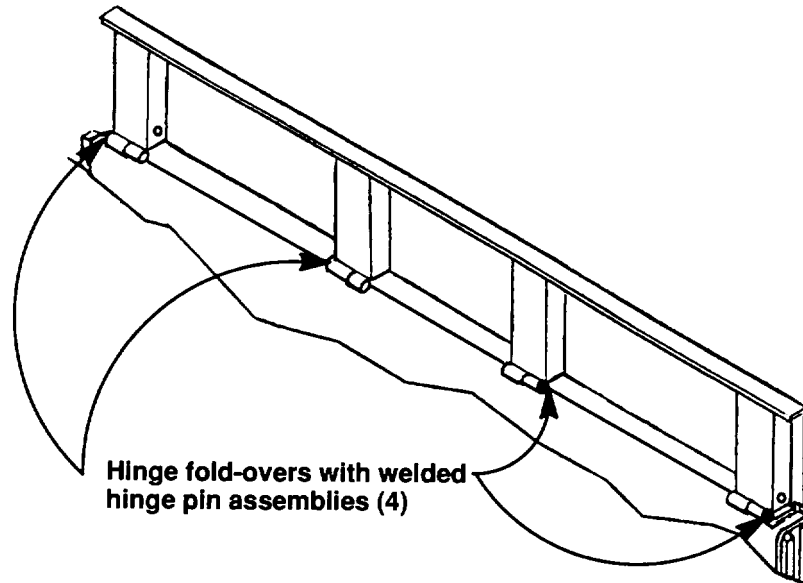
NOTE

Make sure fold-over channel is on the straight vertical before welding hinge fold-overs. Otherwise, hinge will misalign and channel will not fold down.

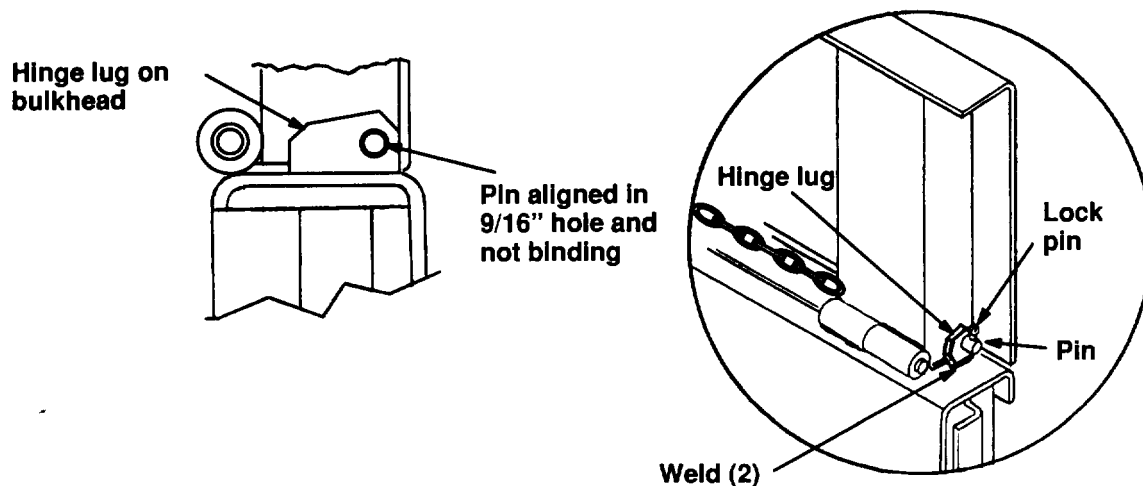
3. If original hinge fold-overs remain on the bulkhead, go to step 4. If bulkhead hinge fold-overs are missing, position new hinge fold-over towards center of channel crossmember and weld hinge fold-over to bulkhead.



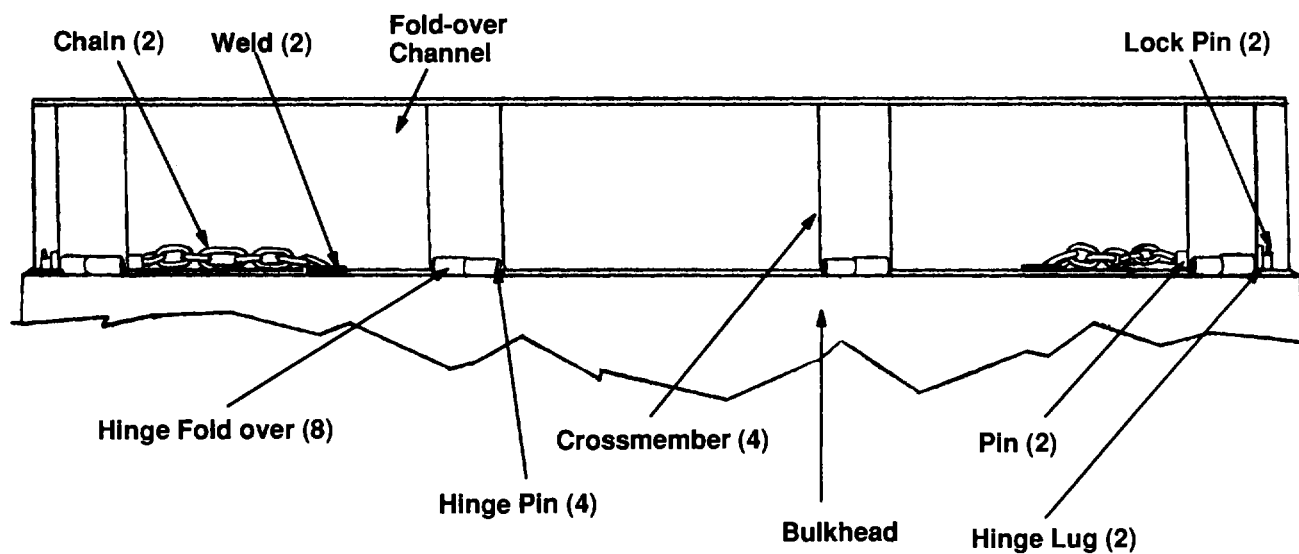
4. Insert four hinge fold-overs with hinge pin assemblies hinge fold-overs. Weld four hinges to channel crossmembers.



5. Insert pin of pin and chain assembly through outer crossmember and extend pin so it enters hinge lug held by hand on bulkhead. Weld hinge lug to bulkhead so it aligns with pin and is not binding. Repeat procedure on other outer crossmember.



6. Weld chains of two pin and chain assemblies to fold-over channel.



7. Inspect welds.

APPENDIX A REFERENCES

A-1. SCOPE.

This appendix lists all forms, field manuals, technical manuals, and other publications referenced in this manual and which apply to the operation, unit, direct, and general support maintenance of the M872 Series Flatbed Semitrailers.

A-2. PUBLICATION INDEX.

DA Pam 25-30, *Consolidated Index of Army Publications and Blank Forms*, should be consulted frequently for latest changes or revisions and for new publications relating to materiel covered in this technical manual.

A-3. FORMS.

Refer to DA Pam 738-750, *The Army Maintenance Management System TAMMS*, for Instructions on the use of maintenance forms.

Equipment Inspection and Maintenance Worksheet	DA Form 2404
Equipment Log Assembly (Records)	DA Form 2408
Maintenance Request	DA Form 2407
Organizational Control Record for Equipment	DA Form 2401
Preventive Maintenance Schedule and Record	DD Form 314
Processing and Reprocessing Record for Shipment, Storage, and Issue of Vehicles and Spare Engines.	DD Form 1397
Product Quality Deficiency Report...	SF 368
Recommended Changes to Equipment Technical Publications	DA Form 2028-2
Recommended Changes to Publications and Blank Forms	DA Form 2028
Report of Discrepancy (ROD)	SF 364

A-4. FIELD MANUALS.

First Aid for Soldiers	FM 21-11
Manual for the Wheeled Vehicle Driver	FM 21-305
NBC Contamination Avoidance	FM 3-3
NBC Decontamination	FM 3-5
NBC Protection	FM 3-4
Operation and Maintenance of Ordnance Materiel in Cold Weather (0 ° to -65°F)	FM 9-207

A-5. SUPPLY BULLETINS.

Storage Serviceability Standard: Tracked Vehicles, Wheeled Vehicles, and Component Parts.	SB 740-98-1
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A-6. TECHNICAL BULLETINS.

Color, Marking, and Camouflage Painting of Military Vehicles, Construction Equipment, and Materiel Handling Equipment	TB 43-0209
Equipment Improvement Report and Maintenance Digest (U.S. Army Tank-Automotive Command) Tank-Automotive Equipment	TB 43-0001-39 Series
Tactical Wheeled Vehicles: Repair of Frames	TB 9-2300-247-40

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0613 HULL OR CHASSIS WIRING HARNESS					
FIG. 9 GROUND/PIGTAIL ASSEMBLY LEAD					
1	PAOOO	13548	96900	LEAD,ELECTRICAL	16
2	PAOZZ	13548	6013	.PLUG,TIP 0-156	1
3	XDOZZ	13548	04058B	.CONNECTOR BODY,RECE	1
4	XDOZZ	13548	5009	.LEAD,ELECTRICAL 16AWG,WHITE,6IN	1
5	XAOZZ	13548	6006	.TERMINAL,LUG	1

END OF FIGURE

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. GENERAL.

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

b. The Maintenance Allocation Chart (MAC) in Section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilities of the designated maintenance levels.

c. Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from Section H.

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

B-2. MAINTENANCE FUNCTIONS.

Maintenance functions will be limited to and defined as follows:

a. **Inspect.** To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e. g., by sight, sound, or feel).

b. **Test.** To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards.

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

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

e. **Aline.** To adjust specified variable elements of an item to bring about optimum or desired performance.

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

g. **Remove/Install.** To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

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

i. **Repair.** The application of maintenance services, including fault location/troubleshooting, removal/installation, and disassembly/assembly procedures and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

B-2. MAINTENANCE FUNCTIONS (Con't).

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

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

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

a. **Column 1, Group Number.** Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly. End item group number shall be "00. "

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

c. **Column 3, Maintenance Function.** Column 3 lists the functions to be performed on the item listed in Column 2, (For a detailed explanation of these functions, refer to paragraph B-2.)

d. **Column 4, Maintenance Level.** Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn (s), the level of maintenance authorized to perform the function listed in Column 3. This figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate work time figures will be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance/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 levels are as follows:

C Unit (Operator or Crew)
 O Unit Maintenance
 F Direct Support Maintenance
 H General Support Maintenance
 D Depot Maintenance

e. **Column 5, Tools and Equipment.** 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.

f. **Column 6, Remarks.** This column shall, when applicable, contain a letter code, in alphabetic order, which shall be keyed to the remarks contained in Section IV.

B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.

a. **Column 1, Tool or Test Equipment Reference Code.** The tool and test equipment reference code correlates with a code used in the MAC, Section II, Column 5.

b. **Column 2, Maintenance Level.** The lowest level of maintenance authorized to use the tool or test equipment.

B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III (Con't).

c. **Column 3, Nomenclature.** Name or identification of the tool or test equipment,

d. **Column 4, National/NATO Stock Number.** The National or NATO 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.

a. **Column 1, Reference Code.** The code recorded in Column 6, Section II.

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

Section II. MAINTENANCE ALLOCATION CHART

(1) Group Number	(2) Component/Assembly	(3) Maintenance Function	(4) Maintenance Level					(5) Tools and Equipment	(6) Remarks
			Unit		DS	GS	Depot		
			C	O	F	H	D		
06	ELECTRICAL SYSTEM								
0609	Lights	Replace		0.2				1, 2, 3	
		Repair		0.2				1, 2, 3	
0613	Chassis Wiring Harness	Replace		1.0				1, 2, 3	
		Repair		1.5				1, 2, 3	
	Receptacle	Replace		1.0				1, 2, 3	
	Resistors	Replace		0.5				1, 2, 3	
11	REAR AXLE								
1100	Rear Axle Assembly	Replace		5.0				1, 2, 3	
		Repair		3.0				1, 2, 3	
12	BRAKES								
1202	Service Brakes	Replace		1.0				1, 2, 3	
		Repair		0.5				1, 2, 3	
	Brakeshoe Assembly	Replace		0.5	0.5			1, 2, 3	
		Repair						1, 4	
	Slack Adjuster	Adjust		0.2				1, 2, 3	
		Replace		1.0				1, 2, 3	
1208	Airbrake System	Test		0.2				1, 2, 3	
		Replace		1.0				1, 2, 3	
		Repair		1.5				1, 2, 3	
	Air Lines and Fittings	Replace		0.2				1, 2, 3	
		Repair		0.1				1, 2, 3	

Section II. MAINTENANCE ALLOCATION CHART (Con't)

(1) Group Number	(2) Component/Assembly	(3) Maintenance Function	(4) Maintenance Level					(5) Tools and Equipment	(6) Remarks
			Unit		DS	GS	Depot		
			C	O	F	H	D		
1208	<i>Airbrake System (Con't)</i>								
	Air Couplings	Replace		0.2				1, 2, 3	
		Repair		0.2				1, 2, 3	
	Air Reservoir	Service	0.1					1, 2, 3	
		Replace		1.5				1, 2, 3	
	Draincock	Replace		0.1				1, 2, 3	
	Airbrake Chamber, Standard	Replace		1.0				1, 2, 3	
		Repair		1.5				1, 2, 3	
	Airbrake Chamber, Failsafe	Replace		1.5				1, 2, 3	
	Emergency Relay Valve	Replace		1.0				1, 2, 3	
13	WHEELS								
1311	<i>Wheel Assembly</i>	Inspect		0.3				1, 2, 3	
	Wheel Bearing	Adjust		0.2				2 or 3	
		Replace		0.5				1, 2, 3	
	Brakedrum	Replace		0.7	1.5			1, 2, 3	
		Repair						1, 4	
	Hub	Replace		0.5				1, 2, 3	
		Repair		0.5				1, 2, 3	
	Oil Seal	Replace		1.0				1, 2, 3	
	Wheel	Replace		0.5				1, 2, 3	
1313	<i>Tires, Tubes, Tire Chains</i>								
	Tires	Service	0.1					1, 2, 3	
		Replace		0.5	1.5			1, 2, 3	
		Repair						1, 4	
	Tube	Replace		0.5				1, 2, 3	
		Repair		0.7				1, 2, 3	
15	FRAME AND TOWING ATTACHMENTS								
1501	<i>Frame Assembly</i>	Repair				8.0		1, 2, 3	
	Frame Bumpers	Replace		2.0				1, 2, 3	

Section II. MAINTENANCE ALLOCATION CHART (Con't)

(1) Group Number	(2) Component/Assembly	(3) Maintenance Function	(4) Maintenance Level					(5) Tools and Equipment	(6) Remarks
			Unit		DS	GS	Depot		
			C	O	F	H	D		
1501	<i>Frame Assembly (Con't)</i>								
	Twist Lock	Service		0.5				1, 2, 3	
		Replace		1.0				1, 2, 3	
		Repair		0.1				1, 2, 3	
	Air Hose and Electrical Harness Support	Replace		1.5				1, 2, 3	
		Repair		1.0				1, 2, 3	
1502	<i>Kingpin</i>	Service		0.2				1, 2, 3	
		Replace				8.0		1, 4, 5	
1503	<i>Sling Provision</i>	Service		0.3				1, 2, 3	
		Replace		1.5				1, 2, 3	
1504	<i>Spare Wheel Carrier</i>	Replace			1.5			1, 4, 5	
1506	<i>Fifth Wheel Plate</i>	Service		0.1				1, 2, 3	
1507	<i>Landing Gear</i>	Replace		1.0				1, 2, 3	
16	SPRINGS AND SHOCK ABSORBERS								
1601	<i>Springs</i>	Replace			4.0			1, 2, 3	
1605	<i>Radius Rods</i>	Replace		1.5				1, 2, 3	
18	BODY								
1801	<i>Body</i>								
	Side Racks	Replace	0.5					1, 2, 3	
		Repair		1.0				1, 2, 3	
	Mudflaps	Replace		0.5				1, 2, 3	
22	BODY, CHASIS, AND ACCESSORY ITEMS								
2202	<i>Accessory Items</i>								
	Reflectors	Replace		0.2				1, 2, 3	
2210	<i>Data Plates</i>	Replace		0.2				1, 2, 3	
	<i>Spare Wheel Carrier Chain</i>	Replace		0.2				1, 2, 3	

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS

(1) TOOL OR TEST EQUIPMENT REFERENCE CODE	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE TOOL KIT, GENERAL MECHANIC'S, AUTOMOTIVE	(4) NATIONAL/NATO STOCK NUMBER 5180-00-177-7033	(5) TOOL NUMBER
1	O	TOOL KIT, GENERAL MECHANIC'S, AUTOMOTIVE	5180-00-177-7033	
2	O	SHOP EQUIPMENT, AUTOMOTIVE MAINTENANCE AND REPAIR: ORGANIZATIONAL MAINTENANCE, COMMON NO. 1, LESS POWER	4910-00-754-0654	
3	O	SHOP EQUIPMENT, AUTOMOTIVE MAINTENANCE AND REPAIR: ORGANIZATIONAL MAINTENANCE, COMMON NO. 2, LESS POWER	4910-00-754-0650	
4	F	SHOP EQUIPMENT, AUTOMOTIVE MAINTENANCE AND REPAIR: FIELD MAINTENANCE, SUPPLEMENTAL NO. 1	4910-00-754-0706	
5	F	TOOL KIT, WELDER'S	5180-00-754-0661	

SECTION IV. REMARKS

NOT APPLICABLE.

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 the M872 Series Flatbed Semitrailers 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:

a. **Section II. Components of End Item (COEI).** 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.

b. **Section III. Basic Issue Items (BII).** 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 upon TOE/MTOE authorizations of the end item.

C-3. EXPLANATION OF COLUMNS.

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

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

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

c. **Column (3) - Description.** Indicates the Federal Item Name and, if required, a description to identify and locate the item. The last line for each item indicates the Commercial and Government Entity (CAGE) Code in parentheses, followed by the part number. If item needed differs for different models of this equipment, the model is shown under the "Usable On Code" heading in this column.

Code	Used On
U42	M872
U64	M872A1
O65	M872A2
O41	M872A3

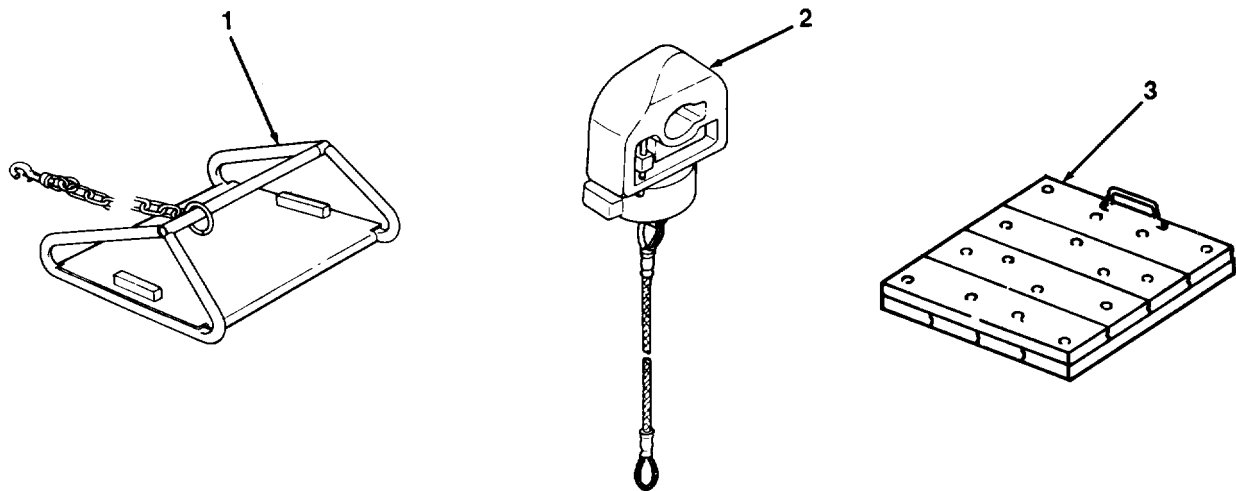
d. **Column (4) - Unit of Measure (U/M).** Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr).

e. **Column (5) - Quantity Required (Qty Req'd).** Indicated the quantity of the item authorized to be used with/on the equipment.

Section II. COMPONENTS OF END ITEM

The semitrailers currently do not have any Components of End Item assigned.

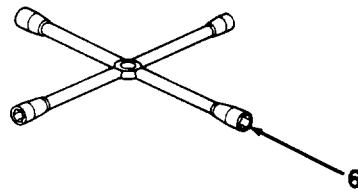
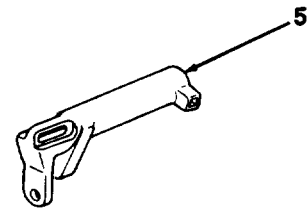
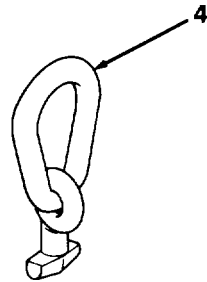
Section III. BASIC ISSUE ITEMS



(1) Illus Number	(2) National Stock Number	(3) Description CAGE and PartNumber	Usable on Code	(4) U/M	(5) Qty Reqd
1	2540-00-678-3469	Chock, Wheel-Track (1 9207) 7979235	U42, U64	ea	2
1	2540-00-769-5048	Chock, Wheel-Track (19207) 10869550	041	ea	2
2	2590-01-062-3520	Container, Lock Assembly (25575) FC7537		ea	4
3	2510-00-741-7585	Ground Board: Jack (19207) 7417585		ea	2

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Section III. BASIC ISSUE ITEMS (Con't)



(1) Illus Number	(2) National Stock Number	(3) Description CAGE and Part Number	Usable on Code	(4) U/M	(5) Qty Reqd
4	2540-01-113-9265	Ring and Hook, Cargo (98255) SW14336P		ea	10
5	5315-01-067-6850	Rod Container Lock (25575) FB7920		ea	4
6	5120-00-203-4766	Wrench, Tire (75204) 35695		ea	1

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APPENDIX D ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

D-1. SCOPE.

This appendix lists additional items you are authorized for the support of the M872 Series Flatbed Semitrailers.

D-2. GENERAL.

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

D-3. EXPLANATION OF COLUMNS.

National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support this equipment. The items are listed in alphabetical sequence by item name under the type document (i.e., CTA, MTOE, TDA, or JTA) which authorizes the item(s) to you. If item required differs for different models of this equipment, the model is shown under the "usable on" heading in the description column.

Section II. ADDITIONAL AUTHORIZATION LIST

(1) National Stock Number	(2) Description CAGE and Part Number	(3) U/M	(4) Qty Auth
5120-01-160-9635	Bit, Screwdriver, ¼ Inch Shank (03705) 440-TX40	pkg	1
2540-01-138-3995	Bow, Vehicular Top (19207) 12255591	ea	1
NOTE The following four items are to be used when hauling conventional ammunition on staked sidewall semi- trailers using wooden dunnage for ammunition re- straint.			
2590-01-060-7117	Plate, Cover, Rear Sill (25575) FB7554	ea	1
2590-01-060-8909	Plate, Cover, Forward (25575) FB7577	ea	2
2510-01-060-7116	Plate, Cover, Intermediate (25575) FB7556	ea	8

SECTION II. ADDITIONAL AUTHORIZATION LIST (CON'T)

(1)	(2)	(3)	(4)
NATIONAL STOCK NUMBER	DESCRIPTION CAGE AND PART NUMBER	U/M	QTY AUTH
2590-01-060-7118	PLATE, COVER, SIDE, REAR (25575) FB7555	EA	2
5340-01-029-9085	STRAP, RUBBER, TIE-DOWN (13435) 13034	EA	43
	NOTE		
	THE FOLLOWING FOUR ITEMS, ALONG WITH NSN 2540-01-112-1732, ARE TO BE USED WHEN HAULING ALL AMMUNITION TYPES AND USING WEB STRAP TIE-DOWN ASSEMBLIES FOR AMMUNITION RESTRAINT. THESE ITEMS MAY ALSO BE USED IN CONJUNCTION WITH THE TEE HOOK, AS LISTED IN THE BII, FOR AMMUNITION TRANSPORT. WHEN TRANSPORTING NUCLEAR AMMUNITION, HOWEVER, ONLY THE NUCLEAR WEB STRAP TIE-DOWN ASSEMBLIES, NSN 5340-01-089-4997 OR 5340-01-204-3009 WILL BE USED IN CONJUNCTION WITH THE TEE HOOK OR VEHICULAR TIE-DOWN ASSEMBLIES TO RESTRAIN NUCLEAR AMMUNITION ITEMS.		
	ONLY A TOTAL OF 35 STRAPS IS AUTHORIZED PER SEMITRAILER. THIS QUANTITY MAY BE ALL OF ONE OF THE STAPS LISTED, OR MAY BE A COMBINATION OF THE FOUR LISTED FOR ALL AMMUNITION TYPES EXCEPT NUCLEAR. FOR NUCLEAR MUNITIONS, THE QUANTITY OF 35 MAY BE ALL OF ONE OF THE LAST TWO STRAPS LISTED OR ANY COMBINATION THEREOF.		
1670-00-725-1437	STRAP, WEBBING (NON-NUCLEAR) (57282) 0376-013	EA	35
5340-00-980-9277	STRAP, WEBBING (NON-NUCLEAR) (19207) 10900880	EA	35
5340-01-089-4997	STRAP, WEBBING (NUCLEAR) (19207) 11669588	EA	35
5340-01-204-3009	STRAP, WEBBING (NUCLEAR) 9392419	EA	35
2540-01-269-3846	TARPAULIN KIT, VEHICULAR (19207) 12255590	EA	1
2540-01-112-1732	TIE-DOWN ASSEMBLY, VEHICULAR (98255) SW15906A	EA	56
2540-01-304-2281	TARPAULIN O.D. (19207) 12255592	EA	1
2540-01-333-2543	TARPAULIN, TAN (19207) 12255592-1	EA	1

SECTION II. ADDITIONAL AUTHORIZATION LIST (CON'T)

(1)	(2)	(3)	(4)
NATIONAL STOCK NUMBER	DESCRIPTION CAGE AND PART NUMBER	U/M	QTY AUTH
	NOTE		
	THE FOLLOWING ITEMS ARE TO BE USED TO SECURE THE RETRACTABLE TWIST LOCKS WHEN LATCH IS NOT AVAILABLE.		
5340-01-029-9085	STRAP, RUBBER, TIE-DOWN (13435) 13034	EA	1
5340-01-317-2657	STRAP, ELASTIC (8S867) 6	EA	1

APPENDIX E

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

E-1. SCOPE.

This appendix lists expendable/durable supplies and materials you will need to operate and maintain the M872 Series Flatbed Semitrailers. This listing is for informational purposes only and is not authority to requisition the listed items. These items are authorized to you by *CTA 50-970, Expendable/Durable /Items (Except Medical, Class V, Repair Parts, and Heraldic Items)*, or *CTA 8-100, Army Medical Department Expendable/Durable Items*.

E-2. EXPLANATION OF COLUMNS.

a. **Column (1) - item Number.** This number is assigned to the entry in the listing and is referenced in the "Initial Setup" of maintenance paragraphs or narrative instructions to identify the material needed (e.g., Dry cleaning solvent, Item 6, Appendix E).

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

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

c. **Column (3) – National Stock Number.** This is the National Stock Number assigned to the item; use it to request or requisition the item.

d. **Column (4) - Description.** Indicates the Federal Item Name and, if required, a description to identify the item. The last line for each item indicates the Commercial and Government Entity (CAGE) Code in parentheses followed by the part number, if applicable.

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

SECTION II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

(1)	(2)	(3)	(4)	(5)
ITEM NUMBER	LEVEL	NATIONAL STOCK NUMBER	DESCRIPTION CAGE AND PART NUMBER	U/M
1	O		BARRIER MATERIAL, GREASEPROOFED- WATERPROOFED, FLEXIBLE (81349) MIL-B-121	
		8135-00-171-0930	100 YARD ROLL	YD
2	O		BRUSH, SCRUB (81348) H-B-1490	
		7920-00-061-0038		EA
3	O		BRUSH, WIRE (17987) 15SS	
		7920-00-900-3577		EA
4	F		CLOTH, ABRASIVE (58536) A-A-1206	
		5350-00-221-0872	50 SHEETS	EA
5	O		DISHWASHING COMPOUND, HAND (81349) P-D-410	
		7930-00-899-9534	5 GALLON CAN	GL
6	O		GREASE, AUTOMOTIVE AND ARTILLERY (81349) MIL-G-10924	
		9150-00-935-1017	14 OUNCE CAN	OZ
		9150-00-190-0904	1.75 POUND CAN	LB
		9150-00-190-0905	6.50	LB
7	O		LUBRICATING OIL, ENGINE, OE/HDO-10 (81349) MIL-L-2104	
		9150-00-189-6727	1 QUART CAN	QT
		9150-00-186-6668	5 GALLON CAN	GL
		9150-00-191-2772	55 GALLON DRUM	GL
8	O		LUBRICATING OIL, ENGINE, OE/HDO-30 (81349) MIL-L-2104	
		9150-00-186-6681	1 QUART CAN	QT
		9150-00-188-9858	5 GALLON CAN	GL
		9150-00-189-6729	55 GALLON DRUM	GL

SECTION II. EXPENDABLE/DURABLE SUPPLIES
AND MATERIALS LIST (CON'T)

(1)	(2)	(3)	(4)	(5)
ITEM NUMBER	LEVEL	NATIONAL STOCK NUMBER	DESCRIPTION CAGE AND PART NUMBER	U/M
9	O		LUBRICATING OIL, ENGINE OEA (18349) MIL-L-46167	
		9150-00-402-4478	1 QUART CAN	QT
		9150-00-402-2372	5 GALLON CAN	GL
		9150-00-491-7197	55 GALLON DRUM	GL
10	O		RAG, WIPING (58536) A-A-531	
		7920-00-205-1711	50 POUND BALE	LB
11	O		SOLDER, LEAD (81348) QQ-S-571	
			1 POUND BAR	LB
12	O		SOLVENT, DRY CLEANING (81348) P-D-680, TYPE II	
		6850-00-664-5685	1 QUART CAN	QT
		6850-00-281-1985	1 GALLON CAN	GL
		6850-00-285-8011	55 GALLON DRUM	GL
13	O		TAG, MARKER (81349) MIL-T-12755	
		9905-00-537-8954	50 EACH	EA
14	O		TAPE, ANTISEIZE:	
			1/4 INCH WIDE (71643) TEMPRTH	
		8030-00-067-7368	54 FEET LONG	FT
			1/2 INCH WIDE (76381) 4B	
		8030-00-889-3535	260 INCHES LONG	IN.

APPENDIX F

REPAIR PARTS AND SPECIAL TOOLS LISTS

Section I. INTRODUCTION

F-1. SCOPE.

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of unit, direct support, and general support maintenance of the M872 Series Flatbed Semitrailer. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

F-2. GENERAL.

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

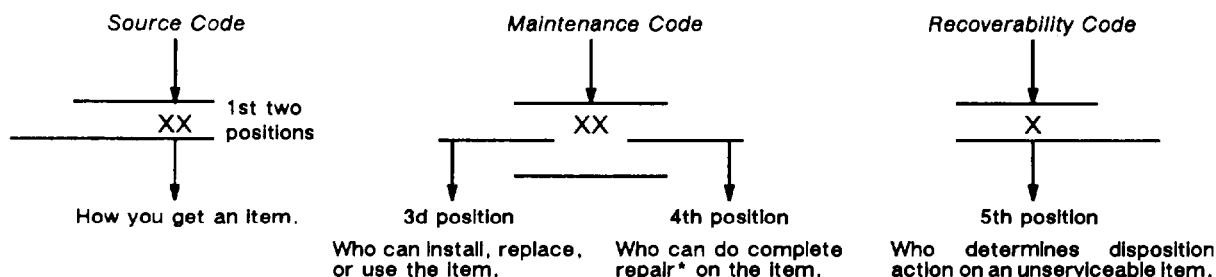
a. **Section II. Repair Parts List.** A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric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

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

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

F-3. EXPLANATION OF COLUMNS (SECTIONS II AND III).

- a. **ITEM NO. [Column (1)].** Indicates the number used to identify items called out in the illustration,
- b. **SMR CODE [Column (2)].** The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



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

F-3. EXPLANATION OF COLUMNS (SECTIONS II AND III) (Con't).

(1) Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow

Code	<u>Application/Explanation</u>
PA	
PB	
PC**	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.
PD	
PE	
PF	** Items coded PC are subject to deterioration.
PG	
.....	
KD	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3d position of the SMR code.
KF	
KB	me complete kit must be requisitioned and applied.
.....	
MO - Made at UM/AVUM Level	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk materiel which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk materiel group of the repair parts list in this RPSTL. If the item is authorized to you by the 3d position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
MF - Made at DS/AVUM Level	
MH - Made at GS Level	
ML - Made at Special-ized Repair Activity (SRA)	
MD - Made at Depot	
.....	
AO - Assembled by UM/AVUM Level	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicted by the source code. If the 3d position code of the SMR code authorizes you to replace the item, but the source code indicates that the item is assembled at a higher level, order the item from the higher level of maintenance.
AF - Assembled by DS/AVUM Level	
AH - Assembled by GS Level	
AL - Assembled by SRA	
AD - Assembled at De-pot	

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."

XA - DO NOT requisition an WY-coded item. Order its next higher assembly.

XB - If an "XB" item is not available from salvage, order it using the CAGE and part number given.

F-3. EXPLANATION OF COLUMNS (SECTIONS II AND III) (Con't).

XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.

XD - Item is not stocked. Order an "XD"-coded item through normal supply channels using the CAGE and part number given, if no NSN is available.

(2) Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

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

<u>Code</u>	<u>Application/Explanation</u>
C	Crew or operator maintenance done within unit maintenance or aviation unit maintenance.
O	Unit maintenance or aviation unit can remove, replace, and use the item.
F	Direct support or aviation intermediate level can remove, replace, and use the item.
H	General support level can remove, replace, and use the item.
L	Specialized repair activity can remove, replace, and use the item.
D	Depot level can remove, replace, and use the item.

NOTE

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

- (b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i, e., perform all authorized "Repair" functions). This position will contain one of the following maintenance codes:

<u>Code</u>	<u>Application/Explanation</u>
O	- Unit maintenance or aviation unit is the lowest level that can do complete repair of the item.
F	- Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
H	- General support is the lowest level that can do complete repair of the item.
L	- Specialized repair activity is the lowest level that can do complete repair of the item.
D	- Depot is the lowest level that can do complete repair of the item.
Z	- 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.

F-3. EXPLANATION OF COLUMNS (SECTIONS II AND III) (Con't).

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

<u>Code</u>	<u>Application/Explanation</u>
Z	- Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the 3d position of the SMR code.
O	- Reparable item. When uneconomically reparable, condemn and dispose of the item at unit maintenance or aviation unit level.
F	- Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate level,
H	- Reparable item, When uneconomically reparable, condemn and dispose of the item at the general support level.
D	- Reparable item, When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L	- Reparable item, Condemnation and disposal of item not authorized below specialized repair activity (SRA).
A	- Item requires special handling or condemnation procedures because of specific reasons (e, g., precious metal content, high dollar value, critical material, or hazardous material), Refer to appropriate manuals/directives for specific instructions,

c. **CAGEC [Column (3)].** The Commercial and Government Entity (CAGE) Code (C) is a 5-digit alphanumeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

NOTE

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

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

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

- (1) The Federal item name and, when required, a minimum description to identify the item.
- (2) Physical security classification. Not Applicable.
- (3) Items that are included in kits and sets are listed below the name of the kit or set on Figure KIT.
- (4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.
- (5) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.
- (6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).

F-3. EXPLANATION OF COLUMNS (SECTIONS II AND III) (Con't).

(7) The usable encode, when applicable (see paragraph F-5, Special Information).

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

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

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

F-4. EXPLANATION OF COLUMNS (SECTION IV).**a. National Stock Number (NSN) Index.**

(1) **STOCK NUMBER Column.** This column lists the NSN by National Item Identification Number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN (i.e.,
 NSN
 5305-01-674-1467). When using this column to locate an item, ignore the first 4 digits of the NSN. However,
 NIIN

er, the complete NSN should be used when ordering items by stock number.

(2) **F/G. Column.** This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section III.

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

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

(1) **CAGEC Column.** The Commercial and Government Entity (CAGE) Code (C) is a 5-digit alphanumeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

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

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

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

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

F-4. EXPLANATION OF COLUMNS (SECTION IV) (Con't).

c. Figure and Item Number Index.

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

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

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

(4) **CAGEC column.** The Commercial and Government Entity (CAGE) Code(C) is a 5-digit alphanumeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

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

F-5. SPECIAL INFORMATION.

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

<u>Code</u>	<u>Used On</u>
U42	M872
U64	M872A1
O65	M872A2
O41	M872A3

b. **Fabrication Instructions.** Bulk materials required to manufacture items are listed in the Bulk Materiel Functional Group of this RPSTL. Part numbers for bulk materials are also referenced in the DESCRIPTION column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in Chapters 4 and 5 of this manual.

c. **Assembly Instructions.** Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in Chapters 4 and 5. Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

d. **Kits.** Line item entries for repair parts kits appear in group 9401 in Section H.

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

F-6. HOW TO LOCATE REPAIR PARTS.

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

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

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

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

F-6. HOW TO LOCATE REPAIR PARTS (Con't).**b. When National Stock Number or Part Number is Known:**

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

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

F-7. ABBREVIATIONS.

For standard abbreviations see MIL-STD-12D, *Military Standard Abbreviations for Use on Drawings, Specifications, Standards, and in Technical Documents*.

<u>Abbreviations</u>	<u>Explanation</u>
NIIN	National Item Identification Number (consists of the last 9 digits of the NSN)
RPSTL	Repair Parts and Special Tools Lists

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 06 ELECTRICAL SYSTEM					
GROUP 0609 LIGHTS					
FIG. 1 LIGHT ASSEMBLIES, M872					
1	PAOZZ	13548	40700	GROMMET, NONMETALLIC UOC:U42	4
2	PAOOO	13548	30200R	LAMP UNIT, VEHICULAR RED UOC:U42	5
3	PAOZZ	13548	30722	.HOUSING, LIGHT UOC:U42	1
4	PAOZZ	25575	VC15-0038-14	SCREW, MACHINE UOC:U42	10
5	PAOZZ	13548	40202R	STOP LIGHT-TAILLIGHT THEURER MODEL UOC:U42	4
5	PAOOO	13548	80302R	STOP LIGHT-TAILLIGHT SOUTHWEST UOC:U42	4
6	PAOZZ	08108	1156	.LAMP, INCANDESCENT U/O P/N 40202R UOC:U42	1
6	PAOZZ	08806	1157	.LAMP, INCANDESCENT U/O P/N 80302R UOC:U42	1
7	PAOZZ	13548	99007R	.LENS, LIGHT UOC:U42	
8	PAOZZ	13548	97904	.RING, RETAINING UOC:U42	2
9	PAOZZ	13548	30200C	LAMP UNIT, VEHICULAR UOC:U42	1
10	PAOZZ	13548	30701	GROMMET, NONMETALLIC UOC:U42	1
11	PAOZZ	13548	30200Y	LIGHT, MARKER, CLEAR AMBER UOC:U42	6
END OF FIGURE					

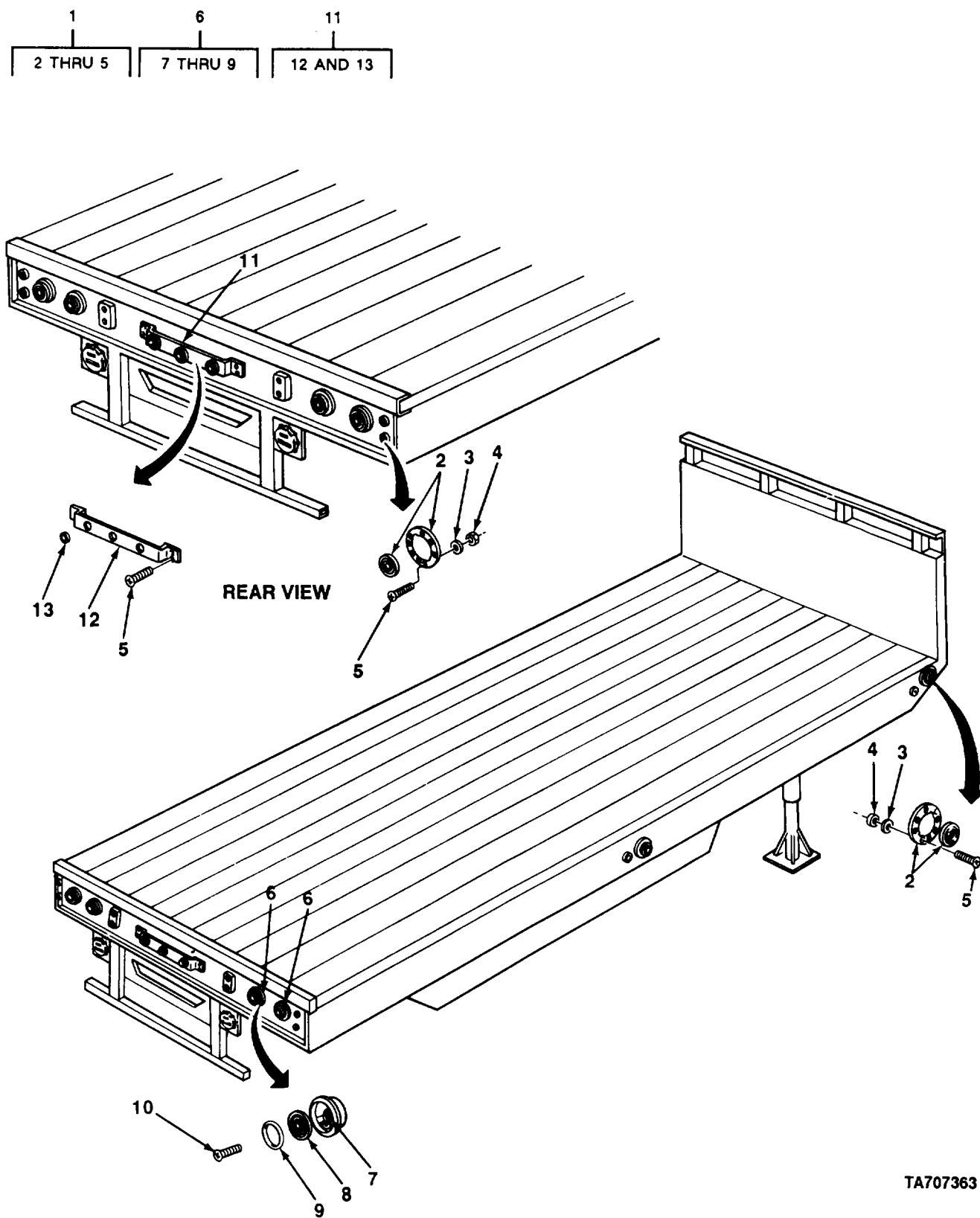
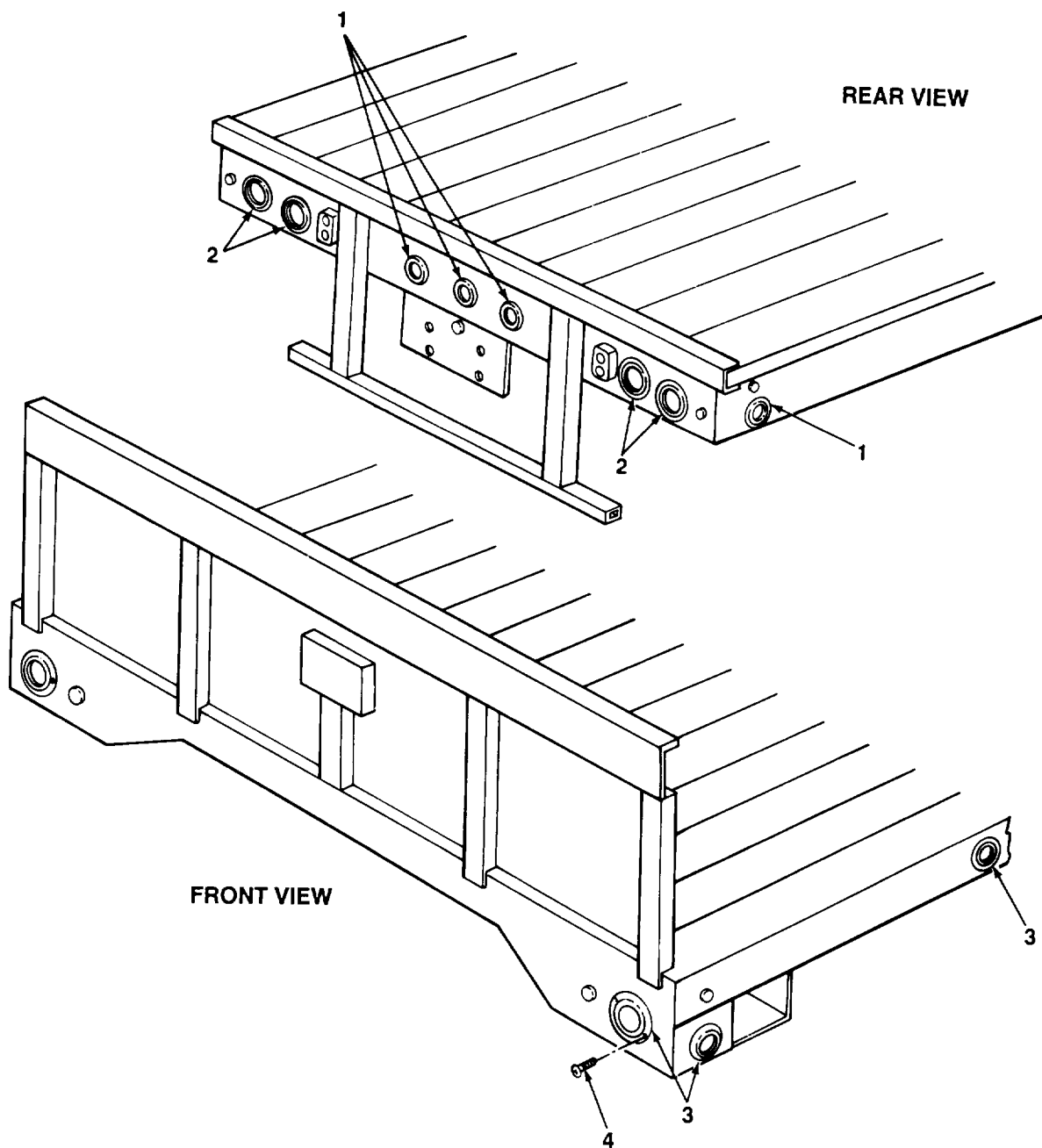


FIGURE 2. LIGHT ASSEMBLIES, M872A3.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0609 LIGHTS					
FIG. 2 LIGHT ASSEMBLIES, M872A3					
1	PAOOO	13548	10004Y	LIGHT,MARKER,CLEARA UOC:041	4
1	PAOOO	13548	10004R	LIGHT,MARKER,CLEARA RED UOC:041	4
2	PAOZZ	13548	10720	.DISC,LAMP MOUNT UOC:041	1
3	PAOZZ	96906	MS45904-54	.WASHER,LOCK LAMP ASSY MTG UOC:041	4
4	PAOZZ	96906	MS35649-262	.NUT,PLAIN,HEXAGON LAMP ASSY MTG UOC:041	4
5	PAOZZ	96906	MS24629-26	.SCREW,TAPPING LAMP ASSY MTG UOC:041	8
6	PDOOO	13548	80301R	STOP LIGHT-TAILLIGH UOC:041	2
6	PAOOO	13548	80302R	STOP LIGHT-TAILLIGH (PARTS SAME AS ON LIGHT P/N 80302R) UOC:041	1
7	PAOZZ	08108	1157	.LAMP,INCANDESCENT USE WITH P/N 80302R UOC:041	1
7	PAOZZ	08108	1156	.LAMP,INCANDESCENT USE WITH P/N 80301R UOC:041	1
8	PAOZZ	13548	99007R	.LENS,LIGHT UOC:041	1
9	PAOZZ	13548	97904	.RING,RETAINING UOC:041	1
10	PAOZZ	96906	MS24629-48	SCREW,TAPPING STOP LIGHT ASSY MTG. UOC:041	12
11	PAOOO	13548	10744R	LAMP UNIT,VEHICULAR UOC:041	1
12	PAOZZ	64133	C-10075	.MOUNT BAR,CLEARANCE UOC:041	1
13	PAOZZ	13548	10004R	.LIGHT,MARKER,CLEARA U/O P/N 10004R UOC:041	3
13	PAOZZ	13548	10202Y	.LIGHT,MARKER,CLEARA U/O P/N 10004Y UOC:041	3

END OF FIGURE



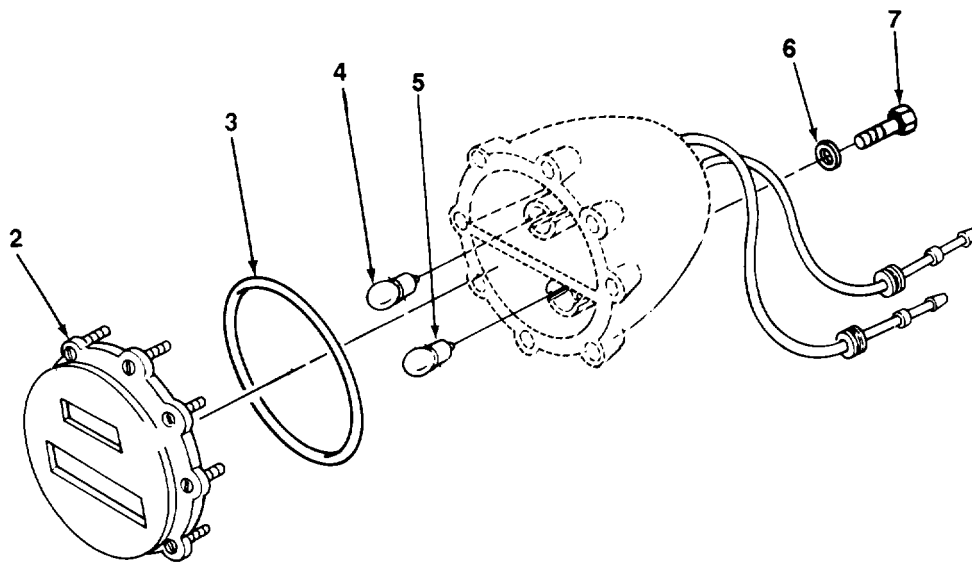
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FIGURE 3. LIGHT ASSEMBLIES, M872A1 AND M872A2.

SECTION II

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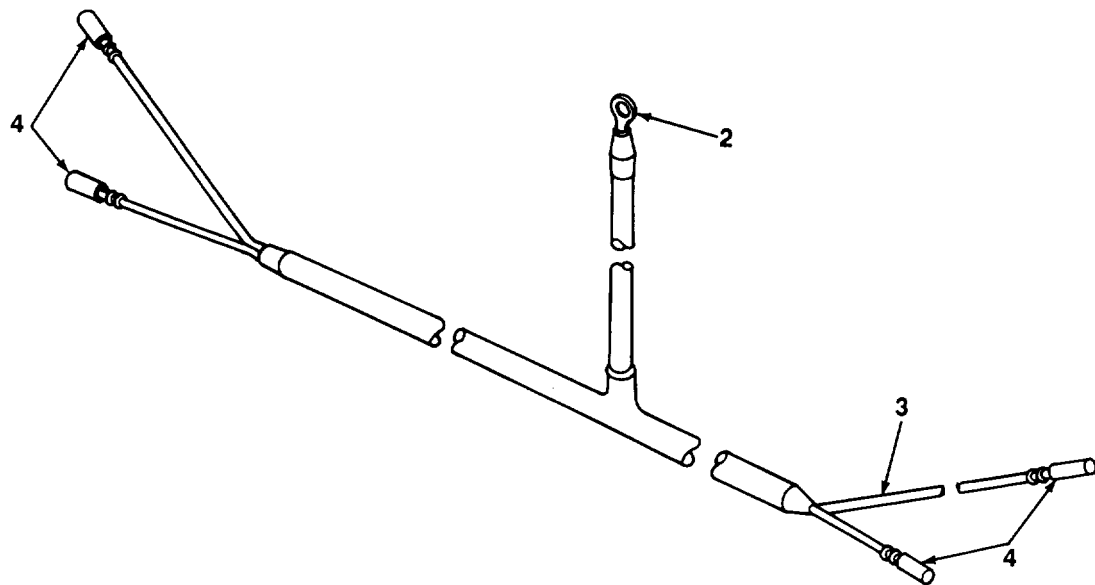
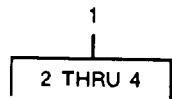
(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0609 LIGHTS					
FIG. 3 LIGHTS ASSEMBLIES, M872A1 AND M872A2					
1	PAOZZ	13548	30200R	LAMP UNIT,VEHICULAR RED UOC:041	5
2	PAOZZ	13548	40202R	STOP LIGHT-TAILLIGHT UOC:U64,065	4
3	PAOZZ	13548	30200Y	LIGHT,MARKER,CLEARA AMBER UOC:U64	6
4	PAOZZ	96906	MS24629-26	SCREW,TAPPING LAMP ASSY MTG UOC:U64,041,065	8
END OF FIGURE					



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FIGURE 4. BLACKOUT, TAIL AND STOPLIGHT.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0609 LIGHTS					
FIG. 4 BLACKOUT, TAIL AND STOPLIGHT					
1	PAOOO	96906	MS51330-1	STOP LIGHT-TAILLIGHT	1
2	PAOZZ	19207	7526018	.RETAINER, LENS	1
3	PAOZZ	19207	7320658	.PACKING, PREFORMED	1
4	PAOZZ	96906	MS15571-1251	.LAMP INCANDESCENT 24 VOLT	2
5	PAOZZ	81348	W-L-00111/60	.LAMP, INCANDESCENT 12 VOLT	2
6	PAOZZ	12603	23E10	WASHER, LOCK BLACKOUT LIGHT MTG	4
7	PAOZZ	96906	MS18154-58	SCREW, CAP, HEXAGON H BLACKOUT LIGHT MTG	4
END OF FIGURE					



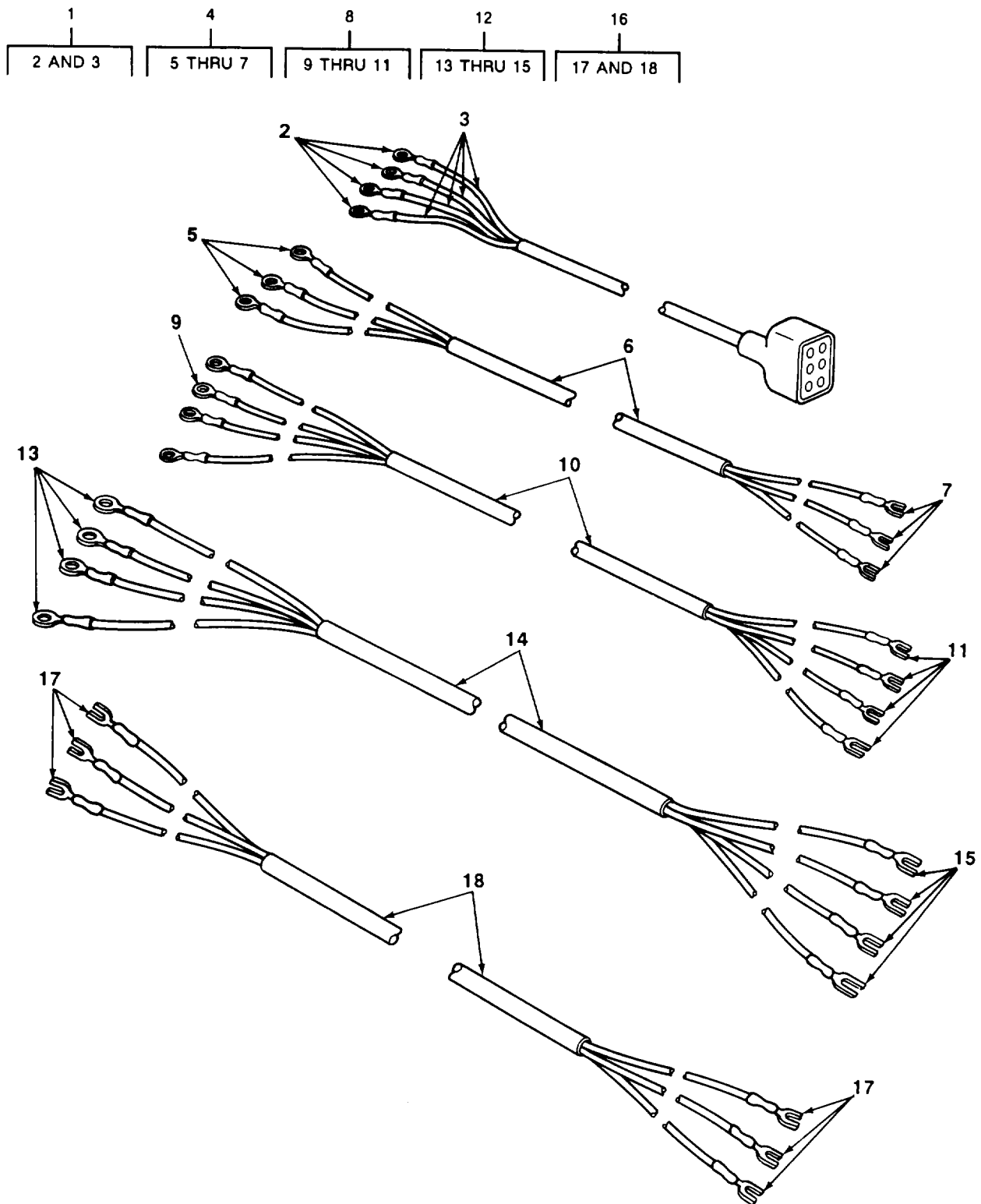
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FIGURE 5. FRONT WIRING HARNESS.

SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0613 HULL OR CHASSIS WIRING HARNESS					
FIG. 5 FRONT WIRING HARNESS					
1	PAOOO	25575	FB7883	WIRING HARNESS,BRAN UOC:U42,U64	1
2	PAOZZ	96906	MS25036-112	.TERMINAL,LUG UOC:U42,U65	1
3	XDOZZ	25575	SAEJ555A16AWG147 IN	.WIRE,ELECTRICAL UOC:U42,U64	1
4	PAOZZ	96906	MS27144-1	.CONNECTOR,PLUG,ELEC UOC:U42,U64	4
END OF FIGURE					

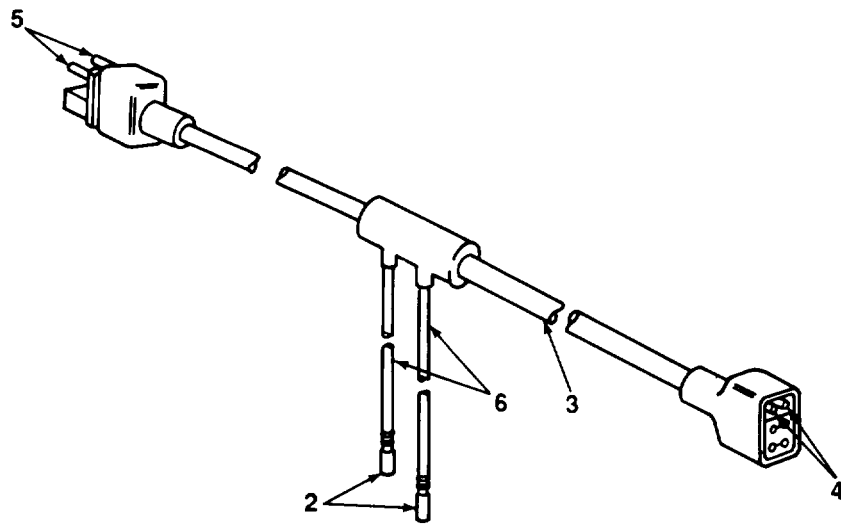
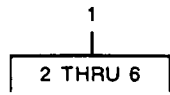


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FIGURE 6. MAIN WIRING HARNESS.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0613 HULL OR CHASSIS WIRING HARNESS					
FIG. 6 MAIN WIRING HARNESS					
1	PAOOO	25575	FB5230-4	CABLE ASSEMBLY,SPEC 4 CONDUCTOR, 12FT UOC:U42,U64,065	1
2	PAOZZ	25575	C228-10	.TERMINAL,LUG UOC:U42,U64,065	1
3	XDOZZ	25575	SAEJ555A12AWG12FT	.WIRE,ELECTRICAL UOC:U42,U64,065	4
4	PAOOO	98255	SW18517A	WIRING HARNESS 24 VOLT UOC:041	1
5	PAOZZ	96906	MS25036-108	.TERMINAL,LUG UOC:041	3
6	XDOZZ	98255	SW14499P-8560	.CABLE UOC:041	1
7	PAOZZ	00779	324015	.TERMINAL,LUG SOUTHWEST UOC:U64,041,065	1
8	PAOOO	98255	SW18518A	HARNESS ASSY,MAIN 12 VOLT UOC:041	1
9	PAOZZ	96906	MS25036-108	.TERMINAL,LUG UOC:041	4
10	XDOZZ	98255	SW14875P	.CABLE UOC:041	1
11	XDOZZ	98255	SW14519P-1	.TERMINAL UOC:041	4
12	PAOOO	98255	SW14490A	HARNESS,MAIN 12VOLT SOUTHWEST UOC:U42	1
13	PAOZZ	96906	MS25036-108	.TERMINAL,LUG UOC:U42,U64,065	4
14	XDOZZ	98255	SW14875P	.CABLE UOC:U42,U64,065	1
15	XDOZZ	98255	SW14519P-1	.TERMINAL UOC:U42,U64,065	4
16	PAOOO	98255	SW14491A	HARNESS,MAIN 24VOLT SOUTHWEST UOC:U42	1
17	XDOZZ	98255	SW14519P-1	.TERMINAL UOC:U42,U64,065	6
18	XDOZZ	98255	SW14875P	.CABLE UOC:U42,U64,065	1

END OF FIGURE

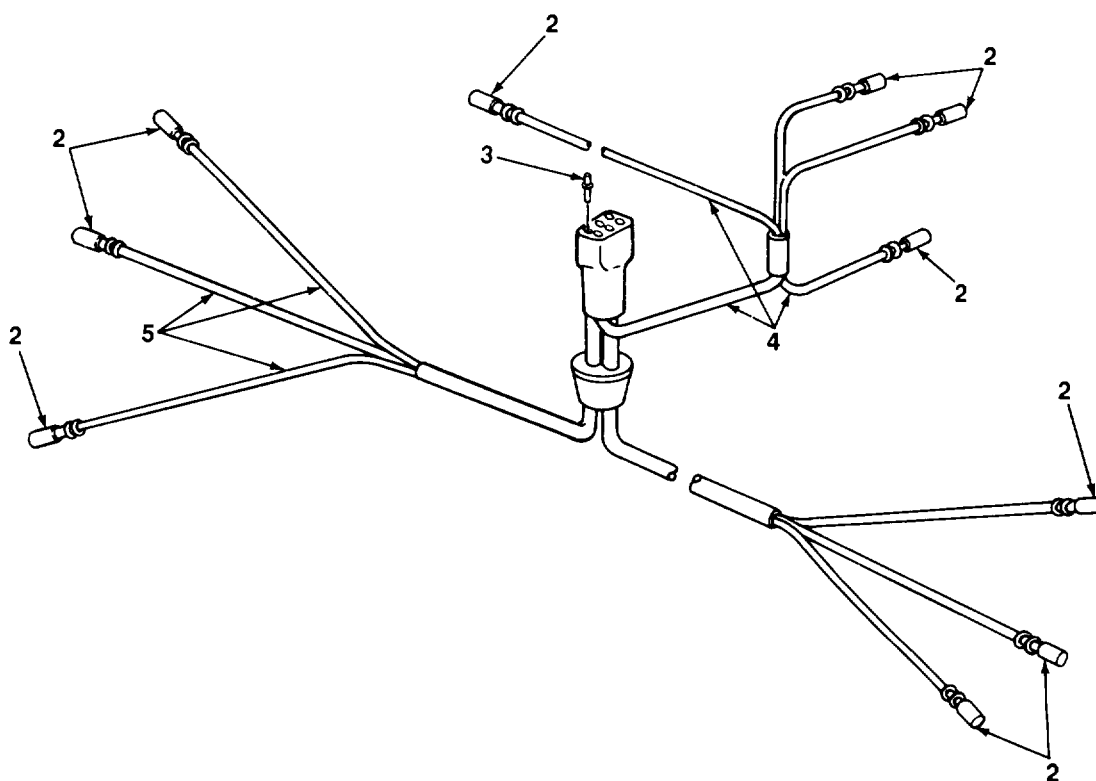
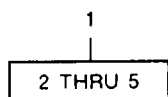


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FIGURE 7. INTERMEDIATE MOLDED WIRING HARNESS.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0613 HULL OR CHASSIS WIRING HARNESS					
FIG. 7 INTERMEDIATE MOLDED WIRING HARNESS					
1	PAOOO	25575	FB7884	WIRING HARNESS,BRAN	1
2	PAOZZ	25575	B231	.CONNECTOR,PLUG,ELEC	1
3	XDOZZ	25575	SAEJ555A12AWG34F T	.WIRE,ELECTRICAL	1
4	XDOZZ	25575	541217A1	.INSERT,FEMALE	2
5	PAOZZ	5V961	AC8-119-14	.REDUCER,TUBE	1
6	XDOZZ	25575	SAEJ555A16AWG10F T	.WIRE,ELECTRICAL	1

END OF FIGURE

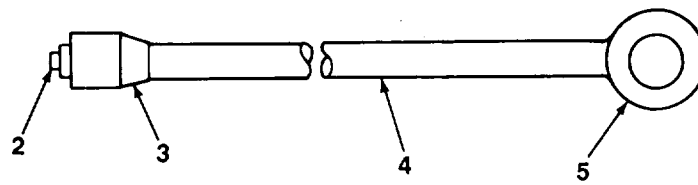
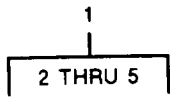


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FIGURE 8. REAR WIRING HARNESS.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 0613 HULL OR CHASSIS WIRING HARNESS	
				FIG. 8 REAR WIRING HARNESS	
1	PAOOO	25575	FB7885	WIRING HARNESS,BRAN	1
2	PAOZZ	96906	MS27144-1	.CONNECTOR,PLUG,ELEC SOUTHWEST	14
3	PAOZZ	5V961	AC8-119-14	.REDUCER,TUBE	4
4	XDOZZ	25575	SAEJ555A16AWG9FT	.WIRE,ELECTRICAL	1
5	XDOZZ	25575	SAEJ555A12AWG88I N	.WIRE,ELECTRICAL	3

END OF FIGURE



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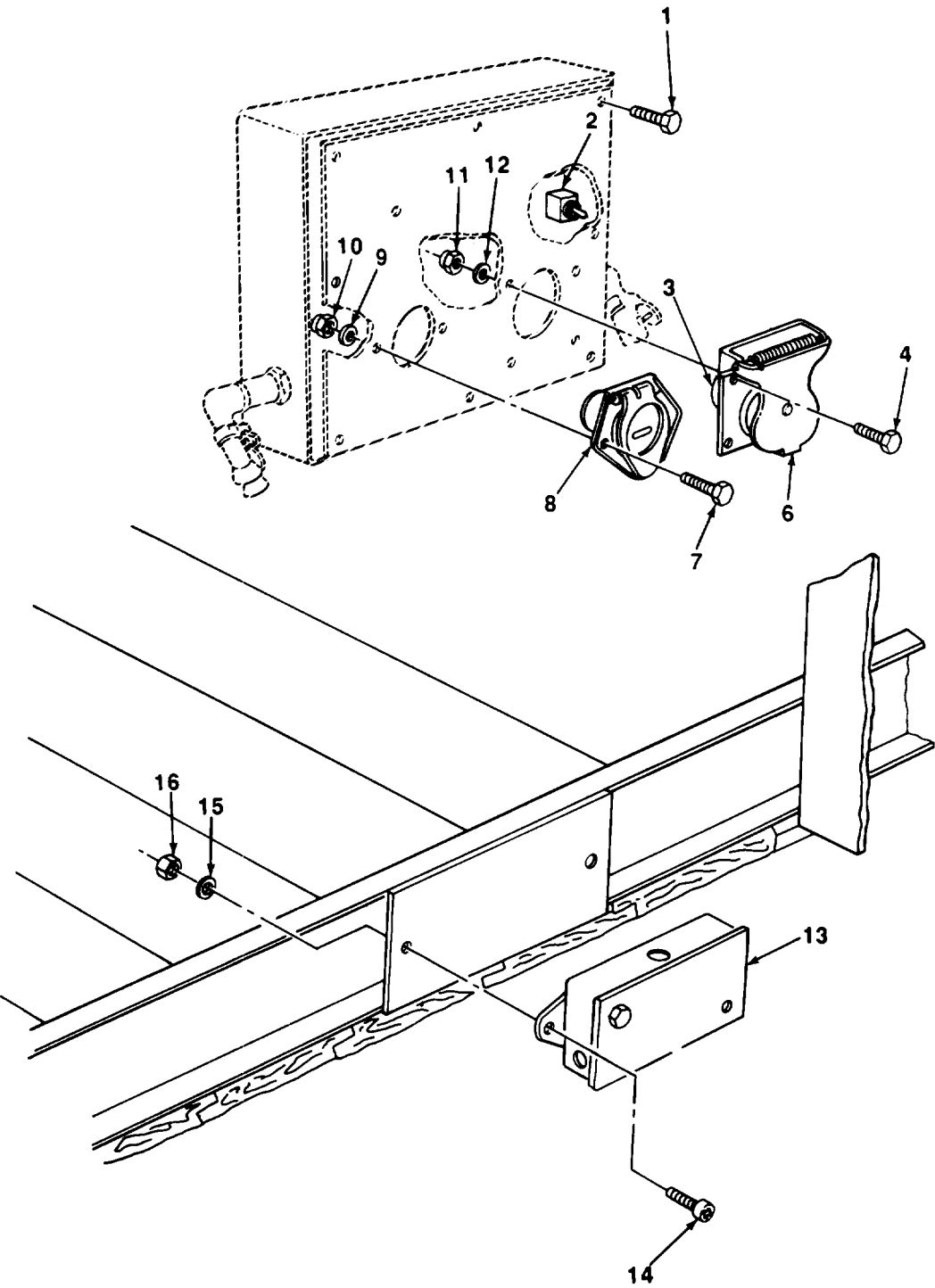
FIGURE 9. GROUND/PIGTAIL ASSEMBLY LEAD.

A-7. TECHNICAL MANUALS.

Inspection, Care, and Maintenance of Antifriction Bearings	TM 9-214
Materials Used for Cleaning, Preserving, Abrading, and Cementing Ordnance Materiel and Related Items Including Chemicals	TM 9-247
Operator's Manual for Welding Theory and Application	TM 9-237
Organizational, Direct Support and General Support Care, Maintenance, and Repair of Pneumatic Tires and Inner Tubes	TM 9-2610-200-24
Painting instructions for Field Use	TM 43-0139
Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use	TM 750-244-6
Railcar Loading Procedures	TM 55-601
Railway Operating and Safety Rules	TM 55-200
Storage and Materials Handling	TM 743-200-1

A-8. OTHER PUBLICATIONS.

Army Logistics Readiness and Sustainability	AR 700-138
Army Medical Department Expendable/Durable Items	CTA 8-100
Expendable/Durable Items (Except Medical, Class V, Repair Pads, and Heraldic Items)	CTA 50-970
Index of Storage and Outloading Drawings for Ammunition	DA Pam 75-5
Rustproofing	MIL-C-46164



TA707365

FIGURE 10. RECEPTACLES.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0613 HULL OR CHASSIS WIRING HARNESS					
FIG. 10 RECEPTACLES					
1	PAOZZ	96906	MS24629-48	SCREW,TAPPING UOC:U42,U64,065	8
1	PAOZZ	96906	MS24629-48	SCREW,TAPPING COVER MTG UOC:041	10
2	PAOZZ	96906	MS35058-22	SWITCH,TOGGLE UOC:U64,041	1
3	PAOZZ	96906	MS75021-1	CONNECTOR,RECEPTACL UOC:U42,U64,065	1
4	PAOZZ	96906	MS90725-6	SCREW,CAP,HEXAGON H UOC:U42,U64,065	4
4	PAOZZ	96906	MS35206-280	SCREW,MACHINE COVER ASSY MTG UOC:041	4
5	XDOZZ	98255	SW18532A	COVER ASSY UOC:041	1
6	PAOZZ	19207	7731428	COVER,ELECTRICAL CO CONNECTOR UOC:U42,041	1
7	PAOZZ	96906	MS35206-295	SCREW,MACHINE CONNECTOR MTG UOC:041	2
8	PAOZZ	98343	782	CONNECTOR,RECEPTACL UOC:041	1
9	PAOZZ	96906	MS27183-12	WASHER,FLAT UOC:U42,U64,065	2
9	PAOZZ	96906	MS35338-45	WASHER,LOCK CONNECTOR MTG UOC:041	2
10	PAOZZ	96906	MS51922-9	NUT,SELF-LOCKING,HE UOC:U42,U64,065	2
10	PAOZZ	96906	MS35649-2312	NUT,PLAIN,HEXAGON CONNECTOR MTG UOC:041	2
11	PAOZZ	96906	MS51922-1	NUT,SELF-LOCKING,HE UOC:U42,U64,065	4
11	PAOZZ	96906	MS35649-2252	NUT,PLAIN,HEXAGON COVER ASSY MTG UOC:041	4
12	PAOZZ	96906	MS27183-10	WASHER,FLAT UOC:U42,U64,065	4
12	PAOZZ	96906	MS35338-44	WASHER,LOCK COVER ASSY MTG UOC:041	4
13	PAOZZ	30119	89-212	TERMINAL BOX UOC:041	2
14	PAOZZ	96906	MS35206-283	SCREW,MACHINE JUNCTION BOX MTG UOC:041	4
15	PAOZZ	99539	CBM21389	WASHER,LOCK JUNCTION BOX MTG UOC:041	4
16	PAOZZ	96906	MS51967-2	NUT,PLAIN,HEXAGON JUNCTION BOX MTG. UOC:041	4

END OF FIGURE

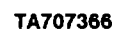


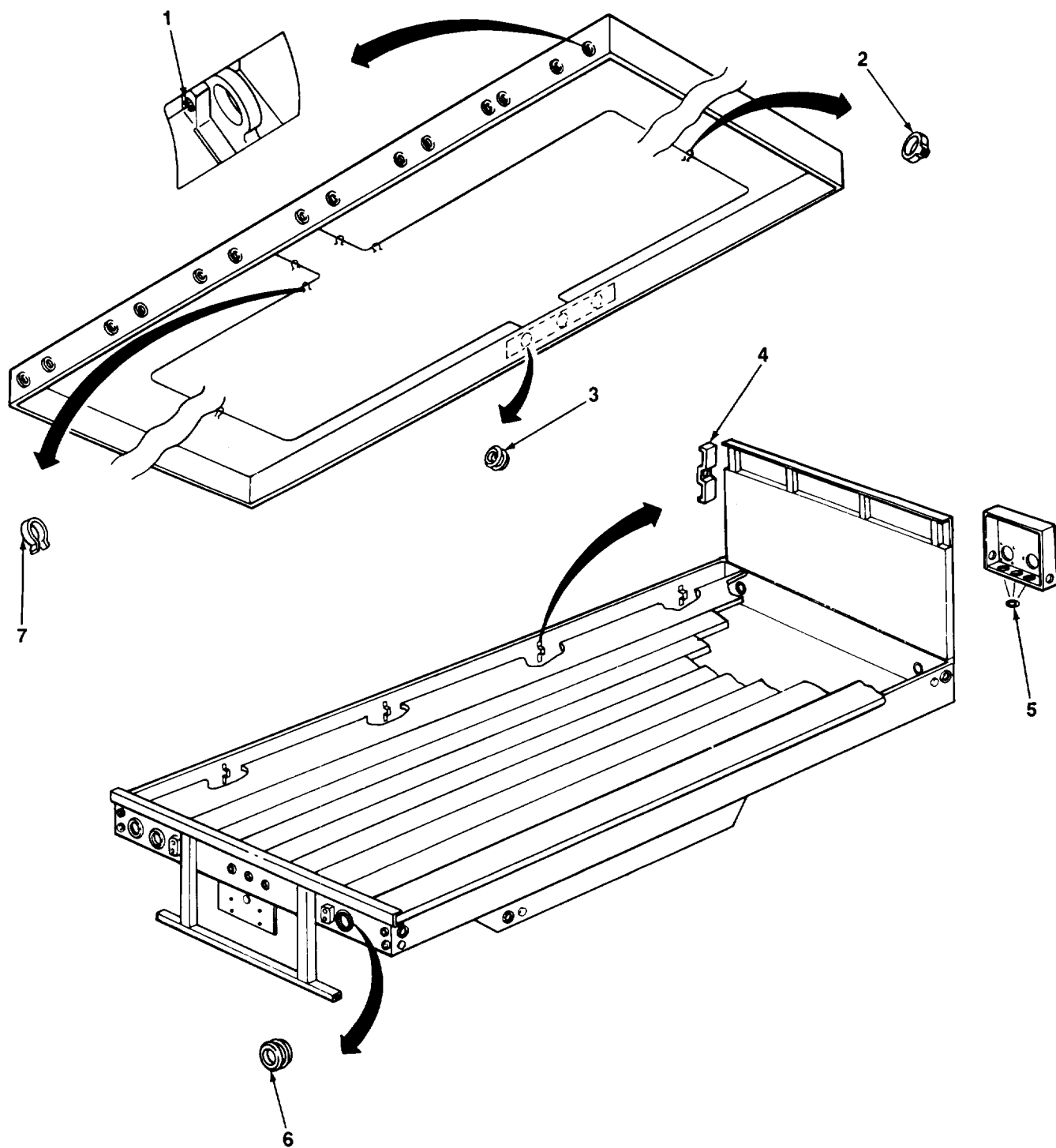
FIGURE 11. LIGHT RESISTORS.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0613 HULL OR CHASSIS WIRING HARNESS					
FIG. 11 LIGHT RESISTORS					
1	PAOZZ	44655	L50J5R0	RESISTOR, FIXED, WIRE SOUTHWEST UOC: U42, U64, 065	2
1	XDOZZ	98255	SW14865P	RESISTOR, FIXED, WIRE UOC: 041	2
2	PAOZZ	30119	89-212	TERMINAL BOX SOUTHWEST UOC: U42, U64, 065	2
2	PAOZZ	98255	SW14292P-8	TERMINAL BOARD UOC: 041	1
3	PAOZZ	81349	RW35V3R9	RESISTOR, FIXED, WIRE UOC: U42, U64, 065	1
3	PAOZZ	91637	HL50-02Z-3R6J	RESISTOR, FIXED, WIRE UOC: 041	1
4	PAOZZ	26405	603-JJ-03	TERMINAL BOARD SOUTHWEST UOC: U64, 041, 065	2
5	PAOZZ	96906	MS35206-265	SCREW, MACHINE UOC: U42, U64, 065	2
5	PAOZZ	96906	MS35206-265	SCREW, MACHINE UOC: 041	6
6	PAOZZ	96906	MS51922-14	NUT, SELF-LOCKING, HE UOC: 041	6
6	PAOZZ	96906	MS51922-14	NUT, SELF-LOCKING, HE TERMINAL BOARD MTG UOC: U42, U64, 065	6
7	PBOZZ	98255	SW15192P	DECAL UOC: 041	1

END OF FIGURE



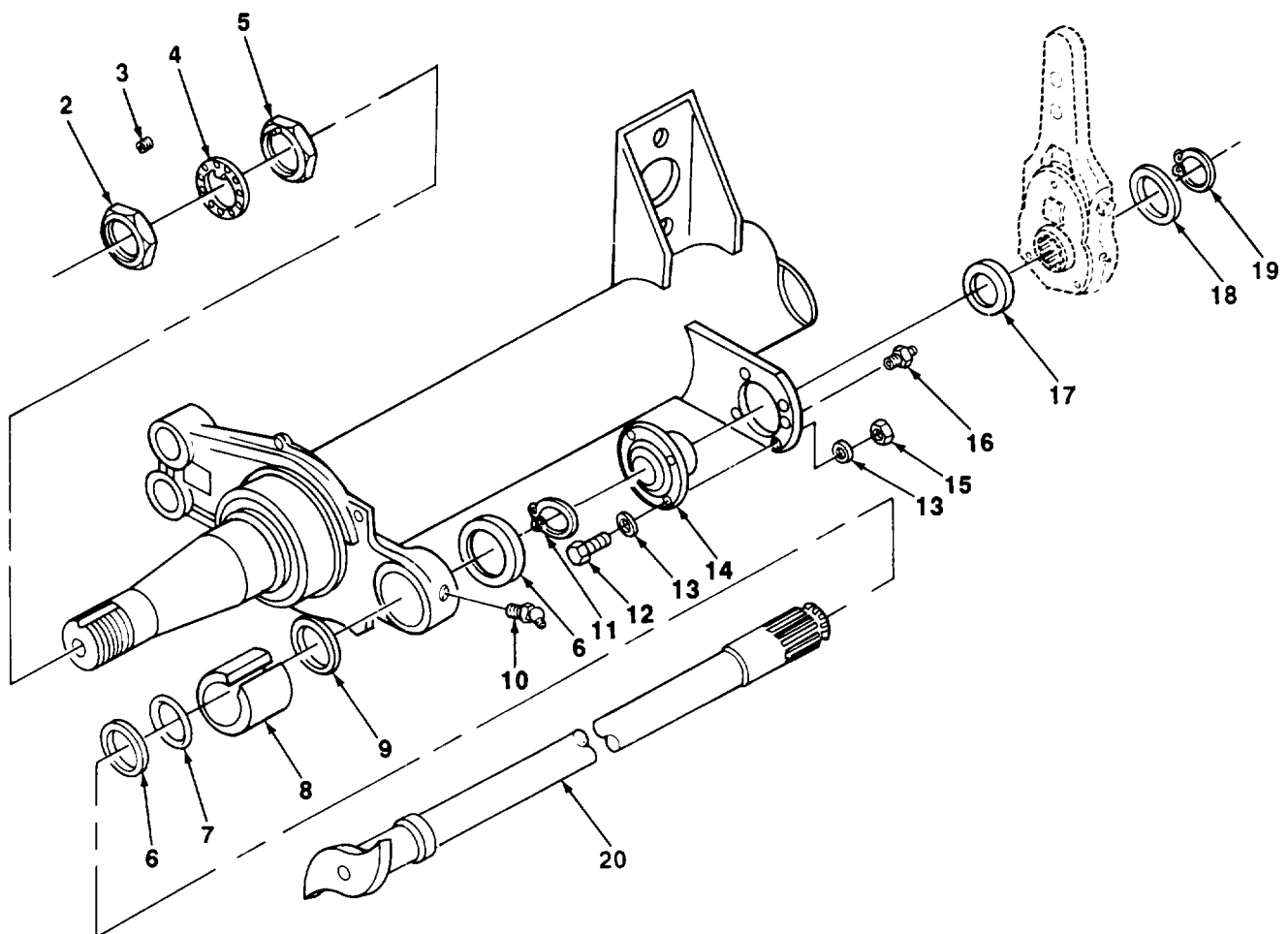
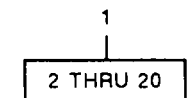
TA706394

FIGURE 12. WIRING HARNESS CLAMPS AND GROMMETS.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 0613 HULL OR CHASSIS WIRING HARNESS					
FIG. 12 WIRING HARNESS CLAMPS AND GROMMETS					
1	PAOZZ	96906	MS35489-107	GROMMET, NONMETALLIC UOC: 041	14
2	PAOZZ	96906	MS3367-5-9	STRAP, TIEDOWN, ELECT UOC: 041	7
3	PAOZZ	13548	30701	GROMMET, NONMETALLIC UOC: U64, 041, 065	11
4	PAOZZ	98343	1511-3	CLAMP, LOOP UOC: U42, U64, 065	12
5	PAOZZ	96906	MS35489-11	GROMMET, NONMETALLIC NOSE BOX HOSES.	3
6	PAOZZ	13548	40MGR	GROMMET TAILLIGHT UOC: U64, 065	4
7	PAOZZ	98343	1511-6	CLAMP, LOOP UOC: U64, 041, 065	8
END OF FIGURE					

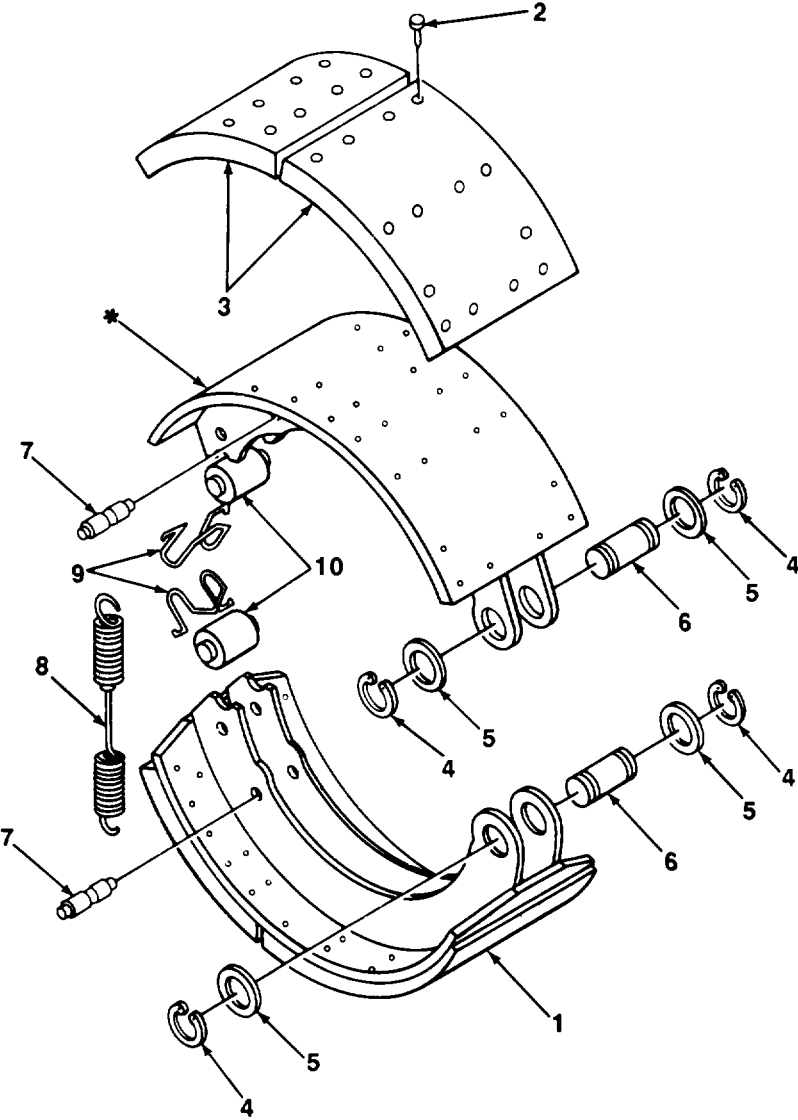
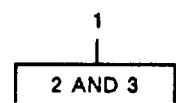


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FIGURE 13, AXLE ASSEMBLY.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 11 REAR AXLE					
GROUP 1100 REAR AXLE ASSEMBLY					
FIG. 13 AXLE ASSEMBLY					
1	PAOFF	78500	TK4670P2000	AXLE ASSEMBLY,VEHIC NONDRIVING	3
2	PAOZZ	78500	1227B756	.NUT,PLAIN,HEXAGON	2
3	PAOZZ	78500	1199-K-3859	.SETSCREW	2
4	PAOZZ	78500	1229W2545	.WASHER ASSY,LOCK	2
5	PAOZZ	78500	1227C549	.NUT INNER WHEEL BEA	2
6	PAOZZ	78500	1229X3118	.WASHER,FLAT	2
7	PAOZZ	78500	1205V1452	.PACKING,PREFORMED	2
8	PAOZZ	78500	A 1225M1053	.BUSHING,CAMSHAFT	2
9	PAOZZ	78500	1205U1451	.SEAL	2
10	PAOZZ	78500	1199J1908	.FITTING,LUBRICATION	2
11	PAOZZ	78500	1229A1119	.RING,RETAINING	2
12	PAOZZ	78500	S 2610 P	.SCREW,CAP,HEXAGON H	8
13	PAOZZ	78500	1229-C-1017	.WASHER,FLAT	16
14	PAOZZ	78500	A1199D2526	.RETAINER ASSY	2
15	PAOZZ	78500	NL 26 C	.NUT,LOCK	8
16	PAOZZ	96906	MS15003-1	.FITTING,LUBRICATION	1
17	PAOZZ	78500	1229-J-868	.SPACER,RING	4
18	PAOZZ	78500	1229B1848	.WASHER,FLAT	4
19	PAOZZ	78500	1229X1116	.RING,RETAINING	2
20	PAOZZ	78500	2210T4180	.CAMSHAFT,ACTUATING	1
20	PAOZZ	78500	2210U4181	.CAMSHAFT LH	1

END OF FIGURE



* Part of Item 1

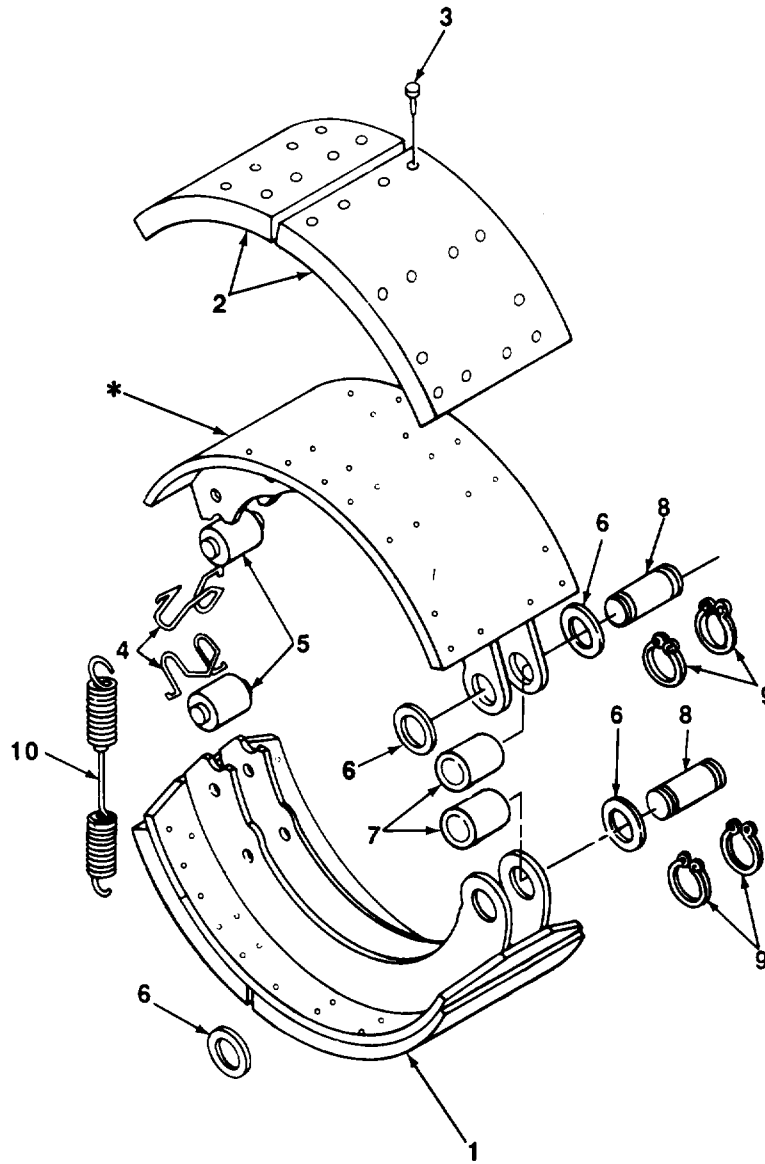
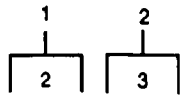
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FIGURE 14. SERVICE BRAKES,M872, M872A1, AND M872A2.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 12 BRAKES					
GROUP 1202 SERVICE BRAKES					
FIG. 14 SERVICE BRAKES, M872, M872A1, AND M872A2					
1	PAOFF	62707	M16WN101X	BRAKE SHOE ASSEMBLY UOC:U42,U64,065	2
2	PAFZZ	62707	M10HM160	.RIVET UOC:U42,U64,065	16
3	PAFZZ	89346	93931R96	.BRAKE LINING KIT UOC:U42,U64,065	1
4	PAOZZ	62707	31624	RING,RETAINING UOC:U42,U64,065	8
5	PAOZZ	62707	M10HN135	WASHER,FLAT UOC:U42,U64,065	8
6	PAOZZ	62707	M10HP102	PIN,GROOVED,HEADLESS UOC:U42,U64,065	4
7	PAOZZ	56697	207100	PIN,BRAKE SPRING UOC:U42,U64,065	2
8	PAOZZ	62707	M16WJ100	SPRING,HELICAL,EXTE UOC:U42,U64,065	2
9	PAOZZ	78500	1718Y103	RETAINER,BRAKE SHOE ROLLER UOC:U42,U64,065	4
10	PAOZZ	62707	M16WJ103	SPRING,HELICAL,TORS ROLLER,BRAKE SHOE UOC:U42,U64,065	4
END OF FIGURE					



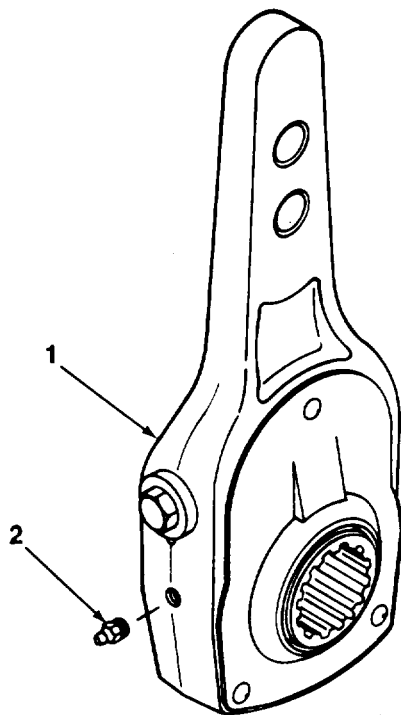
* Part of Item 1

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FIGURE 15. BRAKESHOE ASSEMBLY, M872A3,

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1202 SERVICE BRAKES					
FIG. 15 BRAKESHOE ASSEMBLY, M872A3					
1	PAOFF	78500	D45-3722N-66	BRAKE SHOE ASSEMBLY UOC:041	4
2	PAFZZ	78500	2000-F-1228	.BRAKE LINING KIT UOC:041	1
3	PAFZZ	78500	388S	. . RIVET, BLIND UOC:041	24
4	PAOZZ	78500	1718Y103	RETAINER, BRAKE SHOE ROLLER UOC:041	2
5	PAOZZ	78500	1779R18	ROLLER, LINEAR-ROTAR UOC:041	2
6	XDOZZ	78500	1229B1849	WASHER, FLAT UOC:041	4
7	PAOZZ	78500	1225N976	BUSHING, SLEEVE UOC:041	2
8	PAOZZ	78500	1259J 218	PIN, STRAIGHT, HEADLE UOC:041	2
9	PAOZZ	78500	1229X1116	RING, RETAINING UOC:041	4
10	PAOZZ	78500	2258Z416	SPRING, RETURN UOC:041	1

END OF FIGURE



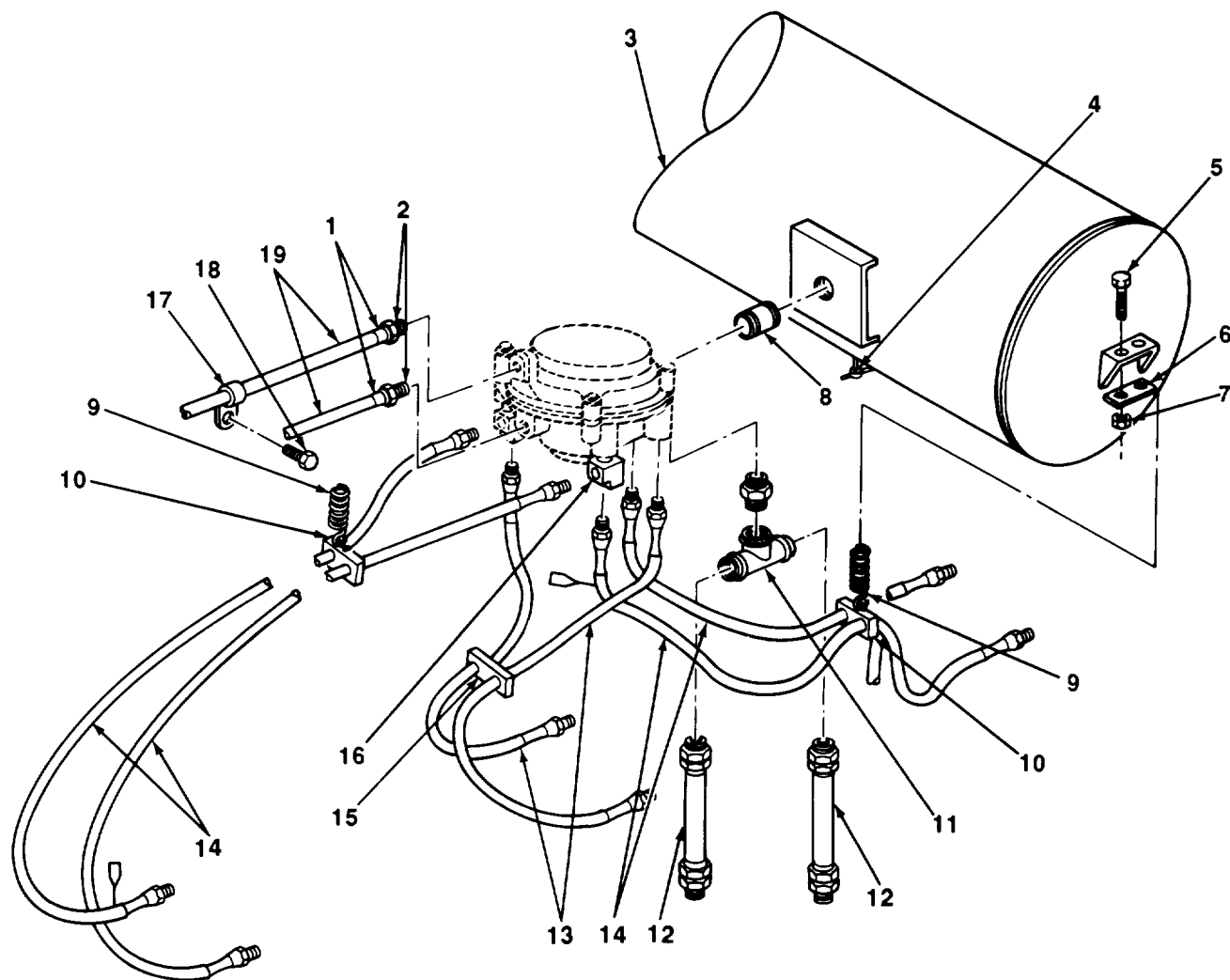
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FIGURE 16. SLACK ADJUSTER.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1202 SERVICE BRAKES					
FIG. 16 SLACK ADJUSTER					
1	PAOZZ	08862	A-7022	ADJUSTER,SLACK,BRAK UOC:U42,U64,O65	6
1	PAOZZ	19207	8336779	ADJUSTER,SLACK,BRAK UOC:41	6
2	PAOZZ	96906	MS15003-1	FITTING,LUBRICATION UOC:041	1
2	PAOZZ	32461	5033	FITTING,LUBRICATION UOC:U42,U64,O65	1
END OF FIGURE					

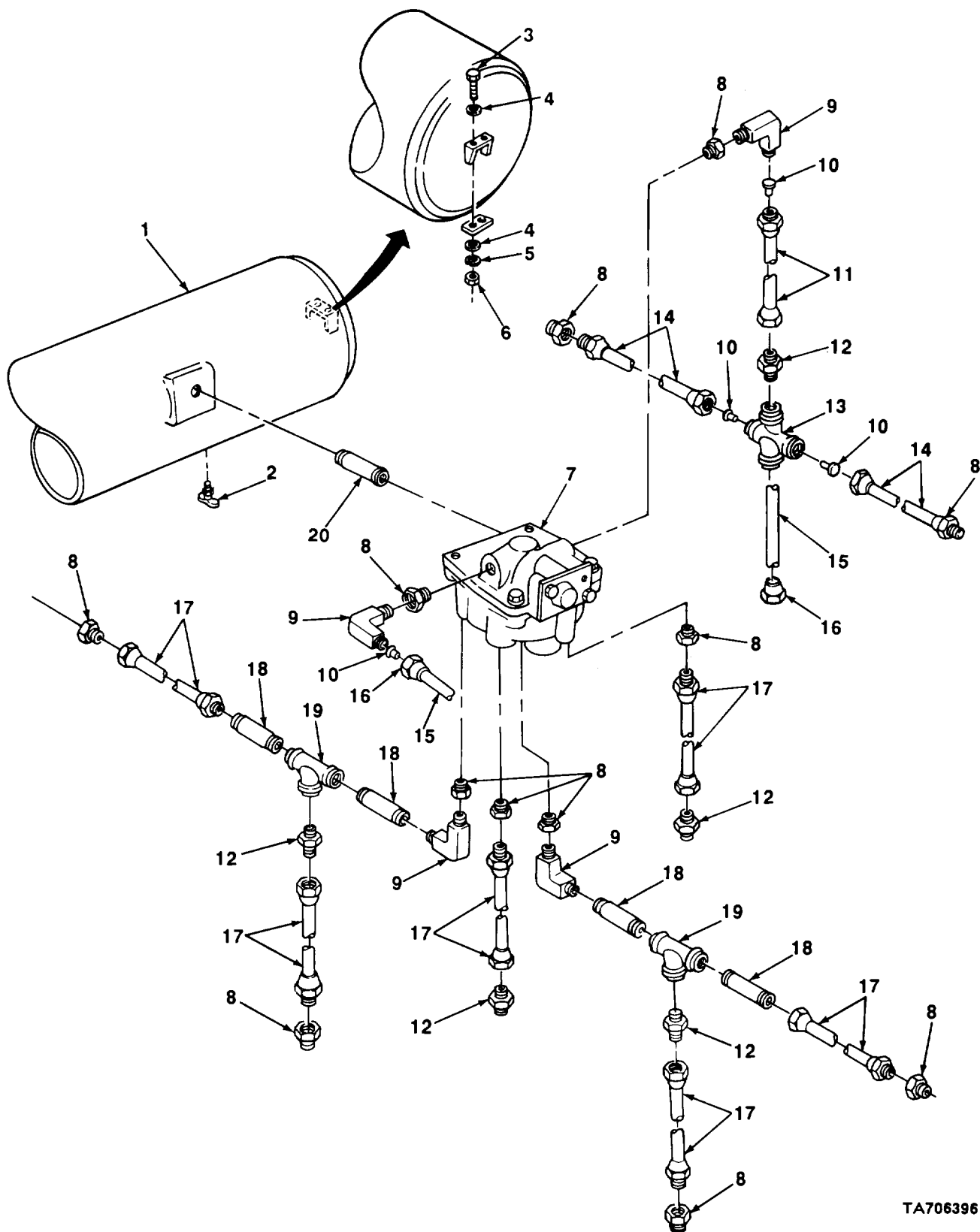


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FIGURE 17. AIRBRAKE SYSTEM, M872, M872A1, AND M872A2.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1208 AIRBRAKE SYSTEM					
FIG. 17 AIRBRAKE SYSTEM, M872 M872A1, AND M872A2					
1	PAOZZ	5V961	AC8-119-14	REDUCER,TUBE UOC:U42,U64,065	2
2	PAOZZ	51038	68NTA6-4	ADAPTER,STRAIGHT,PI UOC:U42,U64,065	4
3	PAOZZ	84290	G1042	TANK,PRESSURE 2800CU IN UOC:U42,U64,065	1
4	PAOZZ	96906	MS35782-4	COCK,DRAIN 1/4 IN NPT UOC:U42,U64,065	1
5	PAOZZ	80204	B1821BH038C125N	SCREW,CAP,HEXAGON H UOC:U42,U64,065	4
6	XDOZZ	82942	53171	RUBBER STRIP UOC:U42,U64,065	2
7	PAOZZ	96906	MS51922-17	NUT,SELF-LOCKING,HE UOC:U42,U64,065	4
8	PAOZZ	25575	AC8-119-3	NIPPLE,PIPE 3/4 X 2 IN LG UOC:U42,U64,065	1
9	PAOZZ	06721	10601	SPRING,HELICAL,EXTE UOC:U42,U64,065	2
10	PAOZZ	98343	1507	BRAKE HOSE ASSEMBLY UOC:U42,U64,065	1
11	PAOZZ	24617	144083	TEE,PIPE UOC:U42,U64,065	1
12	PAOZZ	98343	31-22B360	HOSE ASSEMBLY,NONME UOC:U42,U64,065	1
13	XDOZZ	58429	8FS66-28M	HOSE ASSEMBLY,NONME UOC:U42,U64,065	4
14	PAOZZ	58429	8FS66-54	HOSE ASSEMBLY,NONME UOC:U42,U64,065	1
15	XDOZZ	06721	115411	CLAMP UOC:U42,U64,065	1
16	PAOZZ	93061	2225P-4	TEE,PIPE U42,U64,065	2
17	PAOZZ	98343	1511-3	CLAMP,LOOP 3/8 ID, PLASTIC COVER UOC:U42,U64,065	30
18	PAOZZ	25575	AC-8-119-20	SCREW,MACHINE UOC:U42,U64,065	30
19	PAOZZ	06853	246115	HOSE,NONMETALLIC 3/8 OD X 80 FT UOC:U42,U64,065	1

END OF FIGURE



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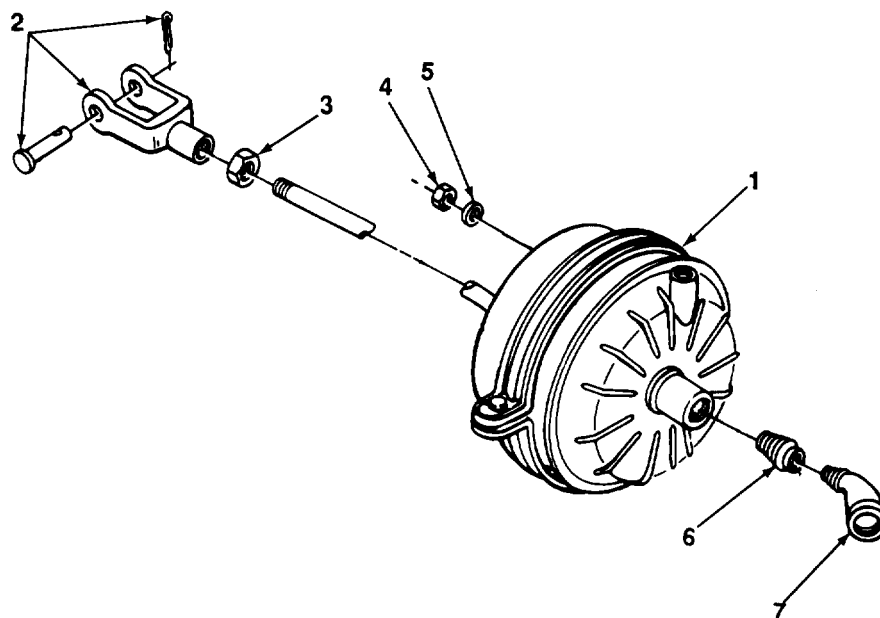
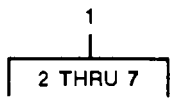
FIGURE 18. AIRBRAKE SYSTEM, M872A3.

SECTION II

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(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1208 AIRBRAKE SYSTEM					
FIG. 18 AIRBRAKE SYSTEM, M872A3					
1	PAOZZ	62173	1200	TANK,PRESSURE UOC:41	1
2	PAOZZ	04627	12878	COCK,DRAIN UOC:041	1
3	PAOZZ	80204	B1821BH038C125N	SCREW,CAP,HEXAGON H UOC:041	4
4	PAOZZ	96906	MS27183-14	WASHER,FLAT UOC:041	8
5	PAOZZ	96906	MS35338-46	WASHER,LOCK UOC:041	4
6	PAOZZ	96906	MS51967-8	NUT,PLAIN,HEXAGON UOC:041	4
7	PAOZZ	06721	N4301AA	VALVE,EMERGENCY,REL UOC:041	1
8	PAOZZ	19422	BM11352-77	BUSHING,PIPE UOC:U42,U64,065	12
9	PAOZZ	10988	222-1851	ELBOW,PIPE TO TUBE UOC:041	4
10	PAOZZ	98255	SW12948-4	BUSHING,SLEEVE UOC:041	4
11	PAOZZ	30327	C608	HOSE,NONMETALLIC UOC:041	1
12	PAOZZ	98343	N-10492-E	ADAPTER UOC:041	5
13	PAOZZ	21450	144151	CROSS,PIPE UOC:041	1
14	PAOZZ	98343	31-22B-250	HOSE ASSEMBLY,NONME UOC:041	2
15	PAOZZ	30327	C608	HOSE,NONMETALLIC UOC:041	2
16	PAOZZ	06853	217690	ADAPTER,STRAIGHT,PI UOC:041	2
17	PAOZZ	98343	31-22B-550	HOSE ASSEMBLY,NONME UOC:041	6
18	PAOZZ	96906	MS51953-36	NIPPLE,PIPE UOC:041	4
19	PAOZZ	24617	144083	TEE,PIPE UOC:041	2
20	PAOZZ	96906	MS51953-101	NIPPLE,PIPE UOC:041	1

END OF FIGURE

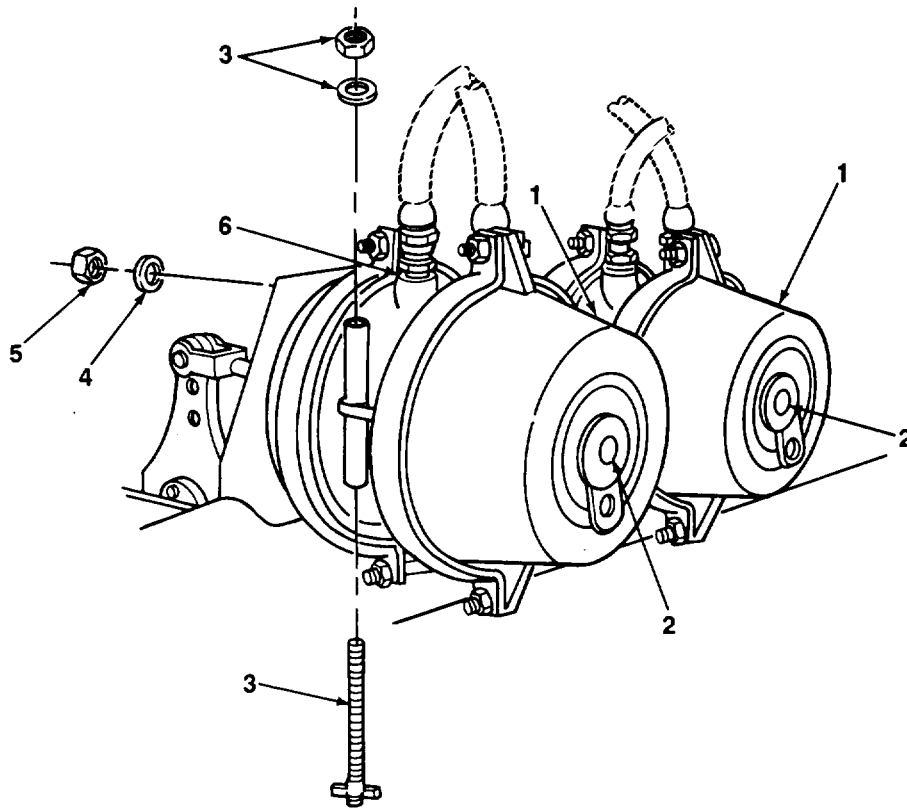
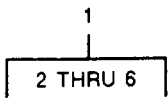


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FIGURE 19. SERVICE BRAKE CHAMBER.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1208 AIRBRAKE SYSTEM					
FIG. 19 SERVICE BRAKE CHAMBER					
1	PAOOO	50153	161366	CHAMBER,AIR BRAKE UOC:U42,U64,O65	4
1	PAOOO	15564	C30-2	CHAMBER,AIR BRAKE UOC:041	4
2	PAOZZ	50153	11M018-1	.CLEVIS ASSEMBLY UOC:U42,U64,O65	1
2	PAOZZ	15564	8292001	.CLEVIS,ROD END UOC:041	1
3	PAOZZ	50153	11M050	.NUT,PLAIN,HEXAGON UOC:U42,U64,O65	1
3	PAOZZ	72582	124925	.NUT,PLAIN,HEXAGON UOC:041	1
4	PAOZZ	98349	L-10-MNS-500-X-9	.NUT,SELF-LOCKING,HE UOC:U42,U64,O65	2
4	PAOZZ	15564	8130008	.NUT,PLAIN,HEXAGON UOC:041	2
5	PAOZZ	50153	11M066	.WASHER,FLAT UOC:U42,U64,O65	2
5	PAOZZ	15564	8083011	.WASHER,FLAT UOC:041	2
6	PAOZZ	81348	WW-P-471BDQBCFC	.BUSHING,PIPE UOC:U42,U64,O65	4
7	PAOZZ	96906	MS39231-2	.ELBOW,PIPE UOC:U42,U64,O65	4

END OF FIGURE



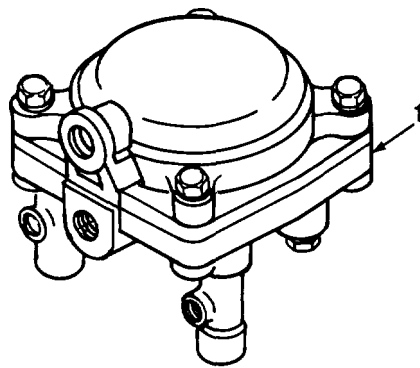
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FIGURE 20. SPRING BRAKE CHAMBER.

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(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1208 AIR BRAKE SYSTEM					
FIG. 20 SPRING BRAKE CHAMBER					
1	PAOZZ	50153	162429	CHAMBER,AIR BRAKE UOC:U42,U64,O65	2
1	PAOZZ	15564	3130051	CHAMBER,AIR BRAKE UOC:041	2
2	PAOZZ	50153	11M012	PLUG,CHAMBER TOP UOC:041	1
2	PAOZZ	15564	9006001	BREATHER UOC:U42,U64,O65	1
3	PAOZZ	50153	11M011	STUD ASSEMBLY,RELEA UOC:U42,O41	1
4	PAOZZ	15564	8083011	WASHER,FLAT UOC:U42,U64	2
5	PAOZZ	15564	8130008	NUT,PLAIN,HEXAGON UOC:U42,U64	2
6	PAOZZ	81348	22-P-471BD1QBDCB	BUSHING,PIPE UOC:U42,U64	4
6	PAOZZ	19422	BM11352-77	BUSHING,PIPE UOC:041	4
END OF FIGURE					



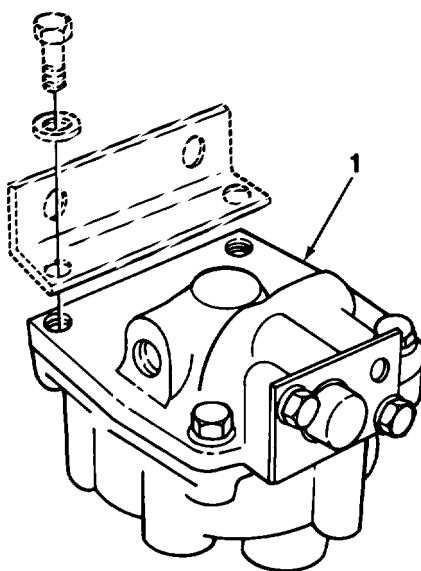
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FIGURE 21, EMERGENCY RELAY VALVE, M872, M872A1, AND M872A2.

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(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 1208 AIRBRAKE SYSTEM	
				FIG. 21 EMERGENCY RELAY VALVE, M872 M872A1, AND M872A2	
1	PAOZZ	06853	281860	VALVE,RELAY,AIR PRE UOC:U42,U64,O65	1
				END OF FIGURE	



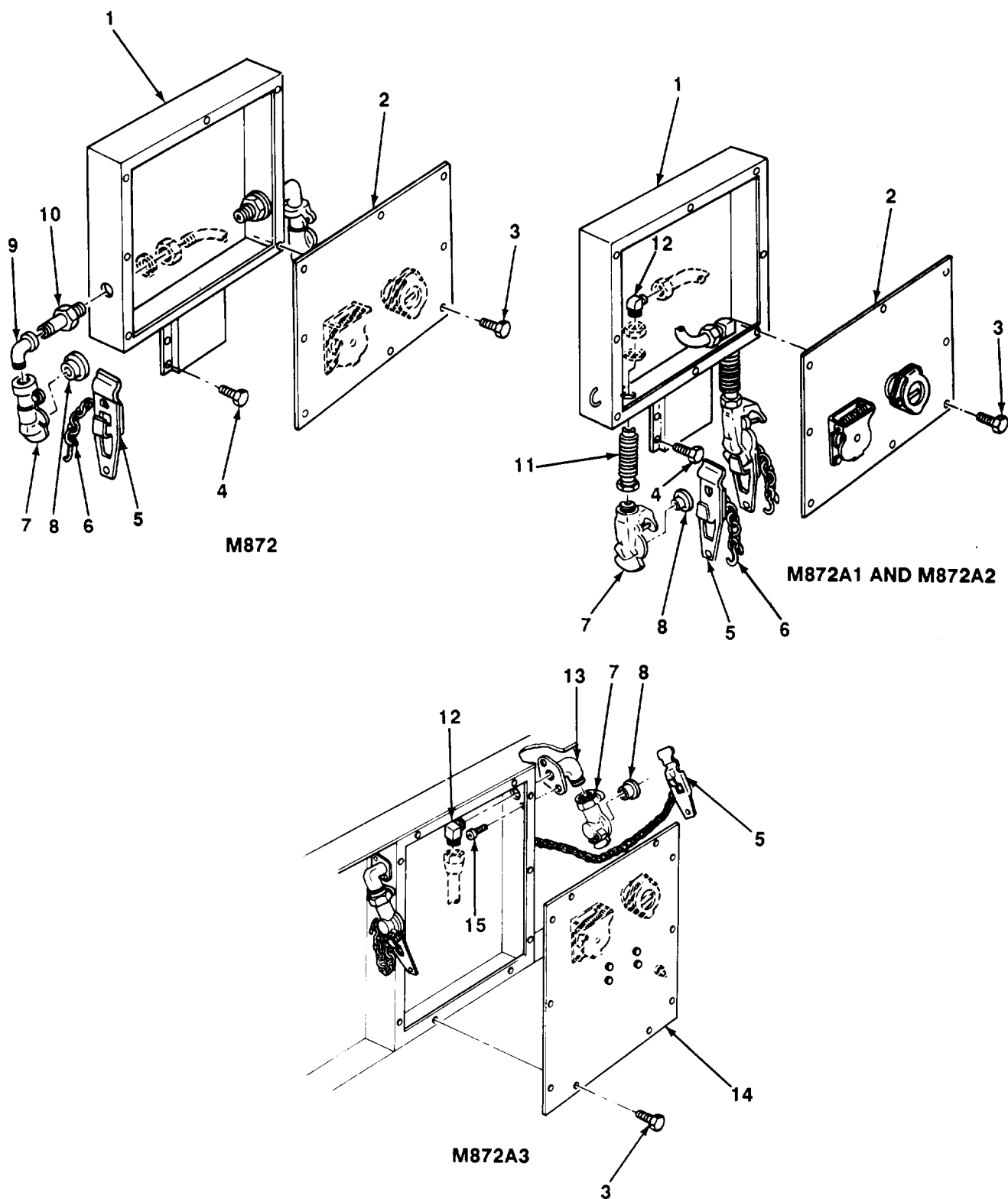
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FIGURE 22. EMERGENCY RELAY VALVE, M872A3.

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(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				FIG. 22 EMERGENCY RELAY VALVE M872A3	
1	PAOZZ	16662	A71890	VALVE, SAFETY RELIEF UOC:041	1
				END OF FIGURE	

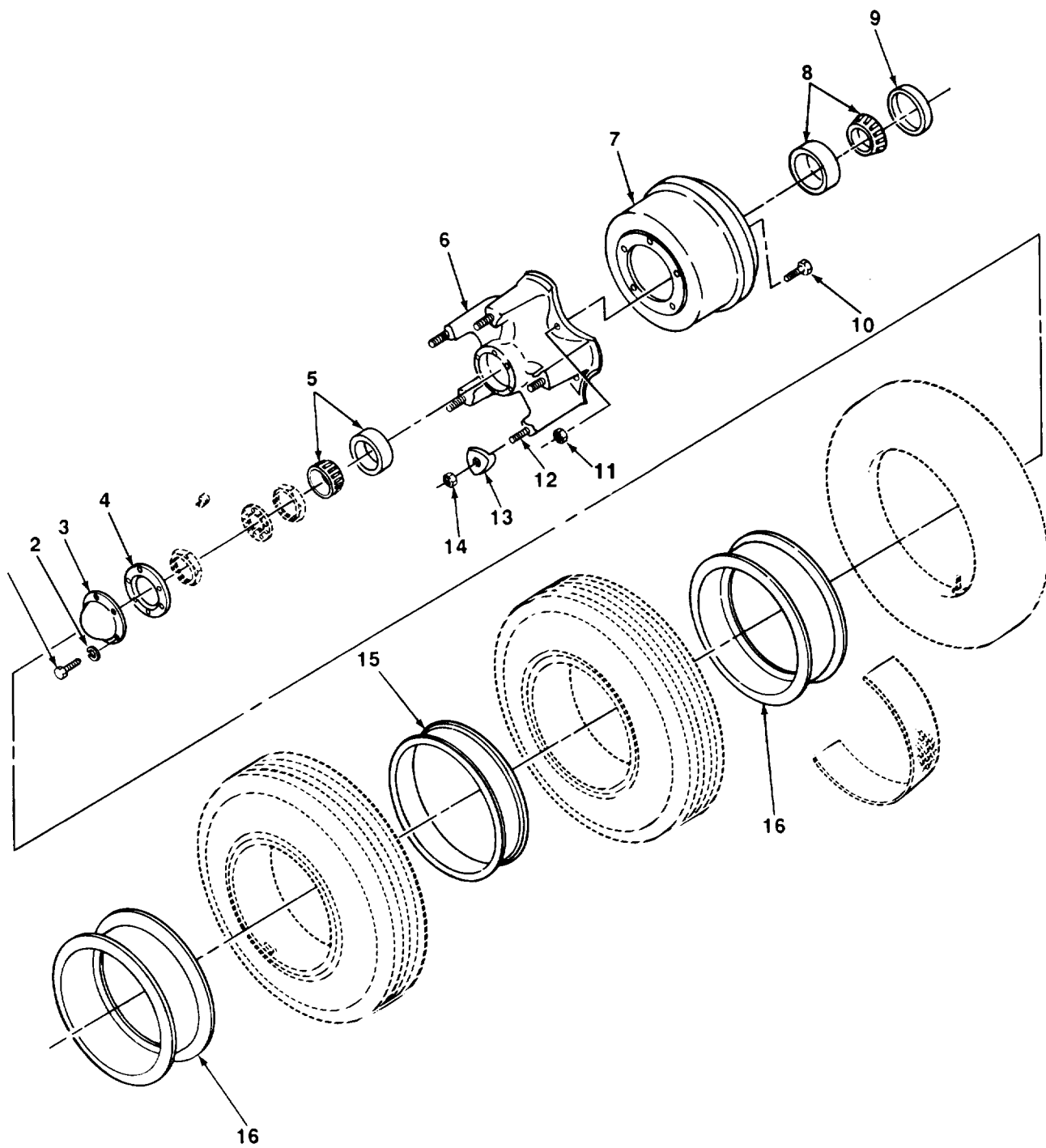


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FIGURE 23, GLADHAND COUPLINGS.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1208 AIRBRAKE SYSTEM					
FIG. 23 GLADHAND COUPLINGS					
1	PAOZZ	25575	PB8-0140-1	NOSE BOX	1
2	XB0ZZ	98255	SW14684A	PLATE,ELEC.BOX COV. SOUTHWEST UOC:U42,U64,O65	1
2	PAOZZ	25575	FB6820	PLATE,RETAINING,ELE UOC:U42,U64,O65	1
3	PAOZZ	25575	PC8-0139-14	SCREW UOC:U42,U64,O65	8
4	PAOZZ	96906	MS51861-15	SCREW,TAPPING UOC:U42,U64,O65	6
5	PAOZZ	19207	7411021	DUMMY COUPLING,AUTO UOC:U42	2
6	PAOZZ	06853	212930	CHAIN ASSEMBLY,SING UOC:U42,U64	2
7	PAOZZ	96906	MS35746-1	COUPLING HALF,QUICK	2
8	PAOZZ	96906	MS35748-1	PACKING,PREFORMED UOC:U42,U64,O65	2
8	PAOZZ	96906	MS35489-81	GROMMET,NONMETALLIC UOC:041	2
9	PAOZZ	12603	29F3	ELBOW,PIPE 1/2 IN UOC:U42,U64,O65	2
10	PAOZZ	40670	11682888	NIPPLE,TANK	2
11	PAOZZ	79146	140070	HOSE ASSEMBLY	2
12	XDOZZ	79470	1469X6X6	ELBOW,PIPE TO TUBE UOC:U64,041,O65	2
13	PAOZZ	98343	51410107	ELBOW,PIPE UOC:041	2
14	XB0ZZ	25575	FA6821	COVER,PLATE UOC:041	1
14	XDOZZ	98255	SW18533A	PLATE UOC:041	1
15	PAOZZ	96906	MS18154-60	SCREW,CAP,HEXAGON H UOC:041	4

END OF FIGURE

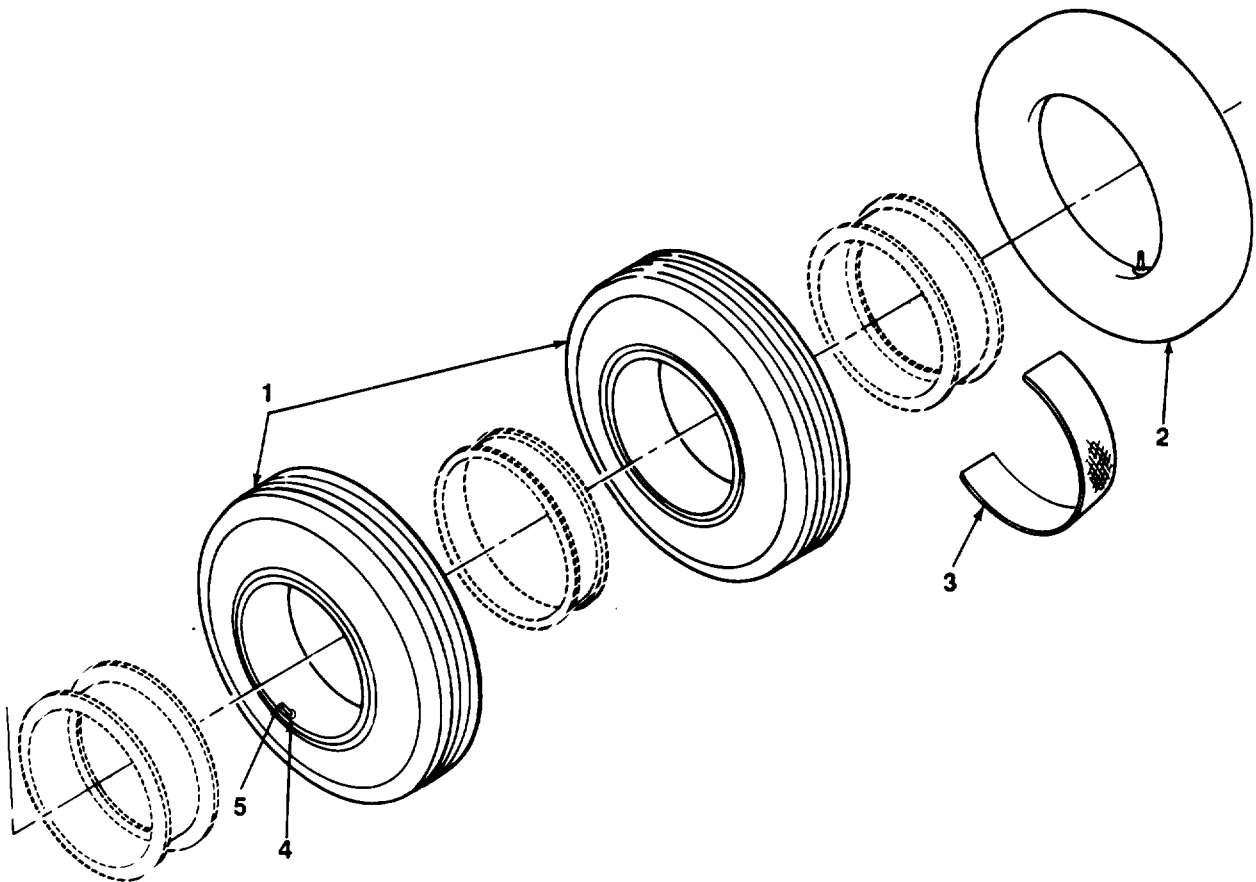


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FIGURE 24. WHEEL AND DRUM ASSEMBLY.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 13 WHEELS AND TRACKS					
GROUP 1311 WHEEL ASSEMBLY					
FIG. 24 WHEEL AND DRUM ASSEMBLY					
1	PAOZZ	96906	MS90725-31	BOLT,MACHINE AXLE ASSEMBLY UOC:U42,U64,O65	6
1	PAOZZ	72540	08-201500	BOLT,MACHINE UOC:041	5
2	PAOZZ	96906	MS35338-45	WASHER,LOCK UOC:U42,U64,O65	6
2	PAOZZ	72540	08-201943	WASHER,FLAT UOC:041	5
3	PAOZZ	72540	09-005205	COVER,ACCESS	1
4	PAOZZ	62707	M10HG108	GASKET	6
5	PAOZZ	96906	MS19081-113	BEARING,ROLLER,TAPE SET	1
6	PAOZZ	14371	01-07791-014	WHEEL,PNEUMATIC TIR	1
7	PAOZZ	25575	GA16851-20	BRAKE DRUM	1
8	PAOZZ	96906	MS19081-132	BEARING,ROLLER,TAPE SET	6
9	PAOZZ	80201	40136	.SEAL,PLAIN ENCASED	2
10	PAOZZ	72540	08-201500	BOLT,MACHINE	5
11	PAOZZ	72540	08-201-932	NUT	5
12	PAOZZ	52540	08-008411	STUD,PLAIN	5
13	PAOZZ	72540	09-612317	CLAMP,RIM CLENCHING	5
14	PAOZZ	72540	08-005716	NUT,PLAIN,HEXAGON 3/4 IN	5
15	PAOZZ	72540	09-005669	SPACER,RING	1
16	PAOZZ	73195	262FL2-1	RIM,WHEEL,PNEUMATIC 20 X 7-5,FL TYPE	13

END OF FIGURE



TA506101

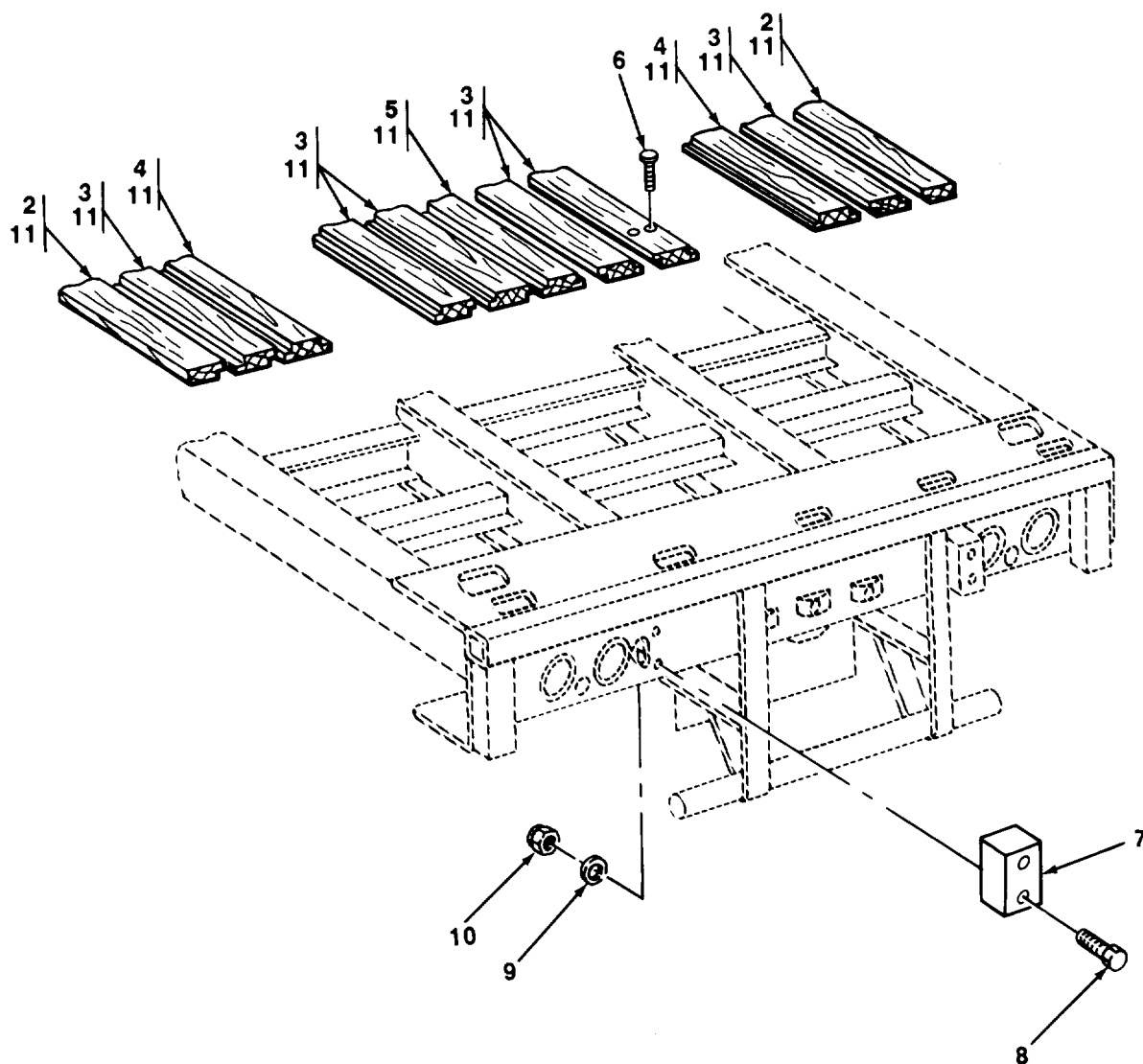
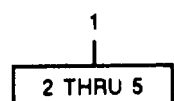
FIGURE 25. TIRE ASSEMBLY.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1313 TIRES, TUBES, TIRE CHAINS					
FIG. 25 TIRE ASSEMBLY					
1	PAOOO	81349	GP3STYLXTYBBCLR/ T/10.00-20/G/TBH	TIE,PNEUMATIC UOC:041	2
2	PAOZZ	81348	GROUP2/10.00-20 /TR78A/ONCENTER	INNER TUBE,PNEUMATI	2
3	PAOZZ	19207	11662389-2	FLAP,INNER TUBE,PNE 10.00X20	2
4	PAOZZ	17875	100AA	VALVE CORE UOC:041	2
5	PAOZZ	83930	41406-1	CAP,PNEUMATIC VALVE UOC:041	2

END OF FIGURE



TA506102

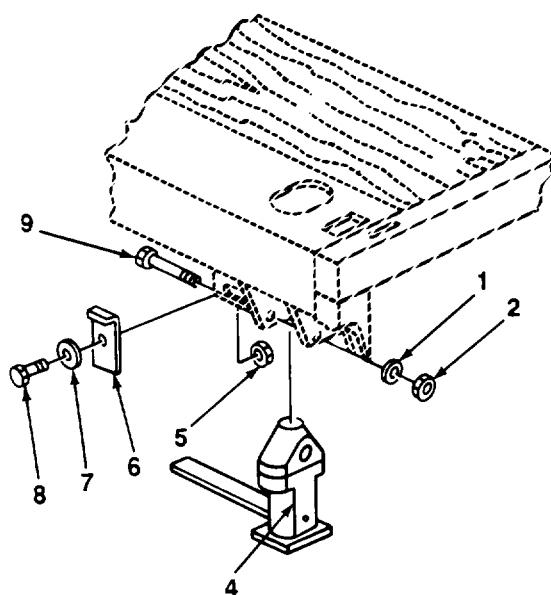
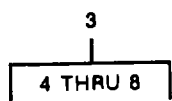
FIGURE 26. PLATFORM ASSEMBLY FLOORBOARDS.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 15 FRAME, TOWING ATTACHMENTS, DRAWBARS, AND ARTICULATION SYSTEMS					
GROUP 1501 FRAME ASSEMBLY					
FIG. 26 PLATFORM ASSEMBLY FLOOR- BOARDS					
1	AFFFF	25575	PD6-0223	PLATFORM ASSEMBLY UOC:U42,U64,O65	1
2	MFFZZ	25575	FC-6872-4-1	.BOARD,FLOOR,TRAILER (5.132 IN. WIDE) CUT TO FIT, MAKE FROM P/N FC- 6872-4	2
3	MFFZZ	25575	FC-6872-4-2	.BOARD,FLOOR,TRAILER (7.5 IN WIDE) CUT TO FIT, MAKE FROM P/N FC- 6872-4	2
4	MFFZZ	25575	FC-6872-4-3	.BOARD,FLOOR,TRAILER (7.5 IN WIDE, CUT TO FIT, MAKE FROM P/N FC- 6872-4	2
5	MFFZZ	25575	FC-6872-4-4	.BOARD,FLOOR,TRAILER (4.625 IN WIDE) CUT TO FIT, MAKE FROM P/N FC- 6872-4	2
6	PAOZZ	25575	FC6792-9	SCREW,TAPPING 5/16IN DIA X 2IN LG CAD PL UOL:U42,U64,O65	680
6	PAFZZ	98255	SW14342P	SCREW,TAPPING FLOOR BOARD MTG UOC:041	700
7	PAOZZ	83473	TB-20	BUMPER,NONMETALLIC 5-7/8IN. X 3-3/ 4IN. X 3-1/2IN	2
8	PAOZZ	80204	B1821BH050C275N	SCREW,CAP,HEXAGON H UOC:U42,U64,O65	4
9	PAOZZ	96906	MS27183-18	WASHER,FLAT UOC:U42,U64,O65	4
10	PAOZZ	96906	MS51922-33	NUT,SELF-LOCKING,HE UOC:U42,U64,O65	4
11	PAFZZ	98255	SW18416K	REPAIR KIT,FLOOR UOC:041	1

END OF FIGURE

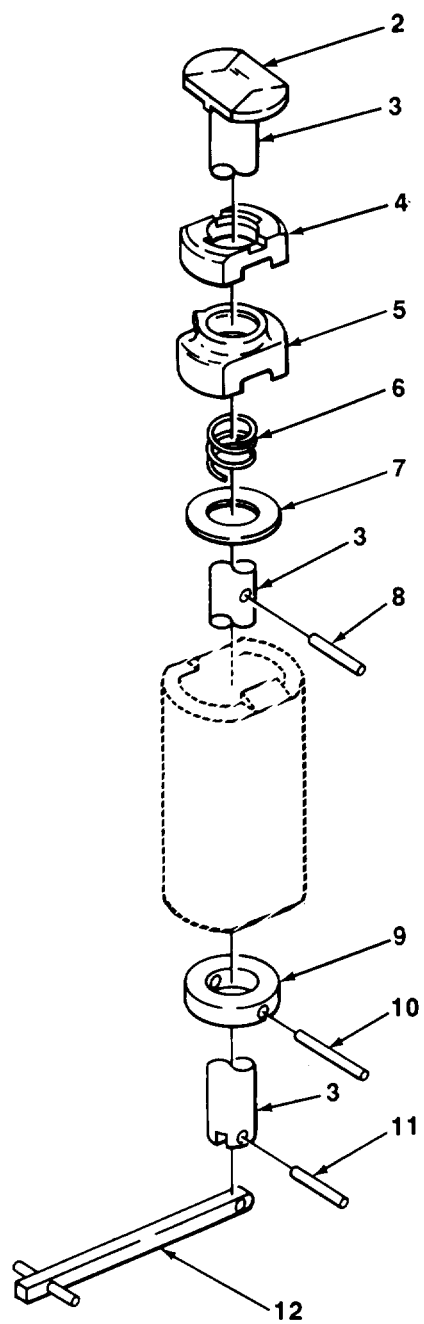
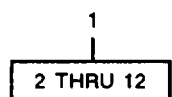


TA506103

FIGURE 27. TWIST LOCK ASSEMBLY, R.H., M872, M872A1, AND M872A2.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1501 FRAME ASSEMBLY					
FIG. 27 TWIST LOCK ASSEMBLY, R.H., M872, M872A1, AND M872A2					
1	PAOZZ	96906	MS27183-17	WASHER, FLAT UOC:U42,U64,O65	2
2	PAOZZ	96906	MS51922-33	NUT, SELF-LOCKING, HE UOC:U42,U64,O65	2
3	PAOOO	25575	PD18-0085-1	TWIST LOCK ARRGT, RH UOC:U42,U64,O65	1
4	PAOZZ	65059	78006-1RH-SC	.LEVER, LOCK-RELEASE R.H. UOC:U42,U64,O65	1
5	PAOZZ	96906	MS51922-1	.NUT, SELF-LOCKING, HE UOC:U42,U64,O65	1
6	PAOZZ	25575	FA6778	.BRACKET, ANGLE UOC:U42,U64,O65	2
7	PAOZZ	96906	MS27183-9	.WASHER, FLAT UOC:U42,U64,O65	1
8	PAOZZ	96906	MS35218-73	.SCREW, MACHINE UOC:U42,U64,O65	1
9	PAOZZ	80204	B1821BH050C375N	SCREW, CAP, HEXAGON H UOC:U42,U64,O65	2

END OF FIGURE

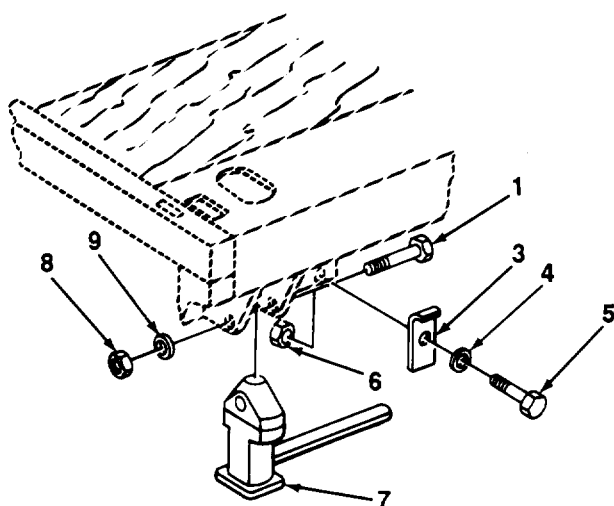
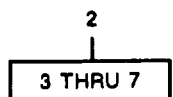


TA506104

FIGURE 28. TWIST LOCK ASSEMBLY, REAR, M872A3.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1501 FRAME ASSEMBLY					
FIG. 28 TWIST LOCK ASSEMBLY, REAR, M872A3					
1	PAOOO	94658	F804-2	FASTENER ASSEMBLY,T REAR UOC:041	2
2	XDOZZ	94658	PH2969-1	.TWIST LOCK UOC:041	1
3	PAOZZ	94658	PH2965-1	.CONE PART OF KIT P/N RK804-2A UOC:041	1
4	PAOZZ	94658	PH2966-1	.TRUNK,LOCATING PART OF KIT P/N RK804-2C UOC:041	1
5	PAOZZ	94658	PH2967-1	.TRUNK,CENTERING PART OF KIT P/N RK804-2D UOC:041	1
6	PAOZZ	94658	PH2986-1	.SPRING,HELICAL,COMP PART OF KIT P/N RK804-2A PART OF KIT P/N RK804-2D PART OF KIT P/N RK804-2C UOC:041	1
7	PAOZZ	94658	PH2987-1	.WASHER,FLAT UOC:041	1
8	KFOZZ	98255	SW18415P-8	.PIN ROLL 1/2X2 PART OF KIT P/N RK804-2E UOC:041	1
9	KFOZZ	94658	PH2993-1	.COLLAR PART OF KIT P/N RK804-2E UOC:041	1
10	KFOZZ	98255	SW18415P-6	.PIN,GROOVE PART OF KIT P/N RK804-2E UOC:041	1
11	KFOZZ	98255	SW18415P-7	.PIN ROLL 1/4X1 3/8 PART OF KIT P/N RK804-2B UOC:041	1
12	PAOZZ	94658	RK804-1B	.HANDLE,MANUAL CONTR UOC:041	1

END OF FIGURE



TA506105

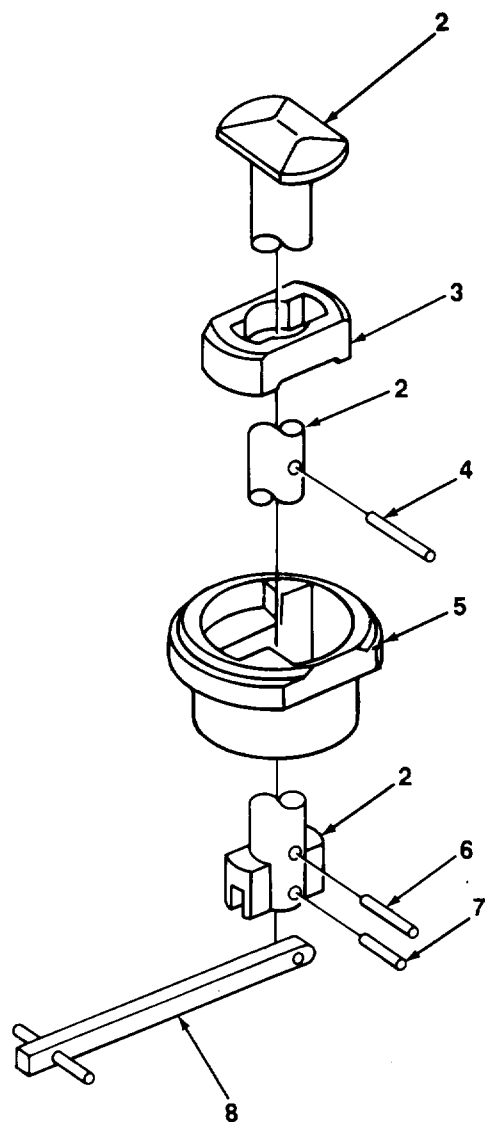
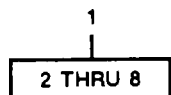
FIGURE 29. TWIST LOCK ASSEMBLY, L.H. , M872, M872A1, AND M872A2.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1501 FRAME ASSEMBLY					
FIG. 29 TWIST LOCK ASSEMBLY, L.H., M872, M872A1, AND M872A2					
1	PAOZZ	80204	B1821BH050C375N	SCREW,CAP,HEXAGON H UOC:U42,U64,O65	2
2	PAOOO	25575	PD18-0085-2	TWIST LOCK ARRGT,LH UOC:U42,U64,O65	1
3	PAOZZ	25575	FA6778	.BRACKET,ANGLE UOC:U42,U64,O65	1
4	PAOZZ	96906	MS27183-9	.WASHER,FLAT UOC:U42,U64,O65	1
5	PAOZZ	96906	MS35218-73	.SCREW,MACHINE UOC:U42,U64,O65	1
6	PAOZZ	96906	MS51922-1	.NUT,SELF-LOCKING,HE UOC:U42,U64,O65	1
7	PAOZZ	25575	P4960-1	.TWIST LOCK,CHASSIS UOC:U42,U64,O65	1
8	PAOZZ	96906	MS51922-33	NUT,SELF-LOCKING,HE UOC:U42,U64,O65	2
9	PAOZZ	96906	MS27183-17	WASHER,FLAT UOC:U42,U64,O65	2

END OF FIGURE

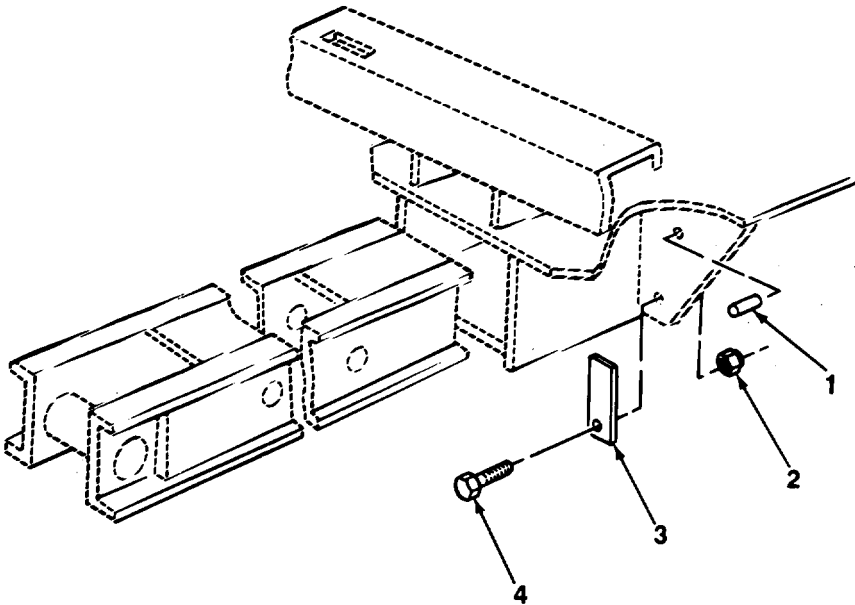


TA506106

FIGURE 30. TWIST LOCK ASSEMBLY, FRONT, M872A3.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1501 FRAME ASSEMBLY					
FIG. 30 TWIST LOCK ASSEMBLY, FRONT, M872A3					
1	PAOOO	94658	F804-1	TWIST LOCK ASSEMBLY UOC:041	2
2	PAOZZ	94658	PH2970-1	.CONE,TWIST LOCK PART OF KIT P/N RK804-1A UOC:041	1
3	XDOZZ	94658	PH2971-1	.TRUNK,LOCATING UOC:041	1
4	KF0ZZ	98255	SW18414P-7	.PIN ROLL PART OF KIT P/N RK804-1A UOC:041	1
5	PAOZZ	94658	PH2964-1	.SOCKET UOC:041	1
6	PAOZZ	92355	SW18414P-5	.PIN,GROOVED,HEADLES PART OF KIT P/N F804-1 UOC:041	1
7	PAOZZ	98255	SW1841P-6	.PIN,SPRING UOC:041	1
8	PAOZZ	94658	PH2968-2	.HANDLE PART OF KIT P/N RK804-1B UOC:041	1

END OF FIGURE



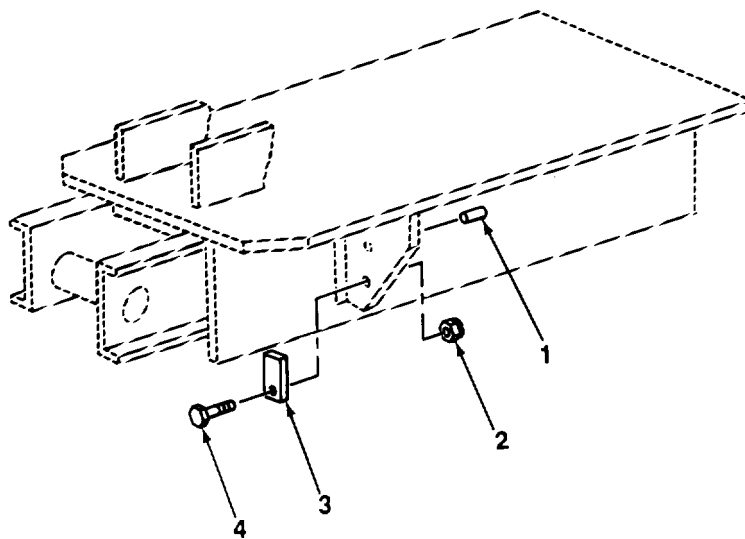
TA506107

FIGURE 31. SLING PROVISION, AFT SIDERAIL, M872, M872A1, AND M872A2.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 1503 PINTLES AND TOWING ATTACHMENTS	
				FIG. 31 SLING PROVISION, AFT SIDE- RAIL, M872, M872A1, AND M872A2	
1	PAOZZ	96906	MS16562-62	PIN, SPRING UOC:U42,U64,O65	1
2	PAOZZ	96906	MS51922-17	NUT, SELF-LOCKING, HE UOC:U42,U64,O65	1
3	PAOZZ	25575	FA7860	SPACER, PLATE UOC:U42,U64,O65	1
4	PAOZZ	80204	B1821BH038C150N	SCREW, CAP, HEXAGON H UOC:U42,U64,O65	1
				END OF FIGURE	



TA506108

FIGURE 32. SLING PROVISION, R. H., FORWARD SIDERAIL, M872,

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 1503 PINTLES AND TOWING ATTACHMENTS	
				FIG. 32 SLING PROVISION, R.H., FORWARD SIDERAIL, M872	
1	PAOZZ	96906	MS16562-62	PIN,SPRING UOC:U42	1
2	PAOZZ	96906	MS51922-17	NUT,SELF-LOCKING,HE UOC:U42	1
3	PAOZZ	25575	FA7860	SPACER,PLATE UOC:U42	1
4	PAOZZ	80204	B1821BH038C150N	SCREW,CAP,HEXAGON H UOC:U42	1
				END OF FIGURE	

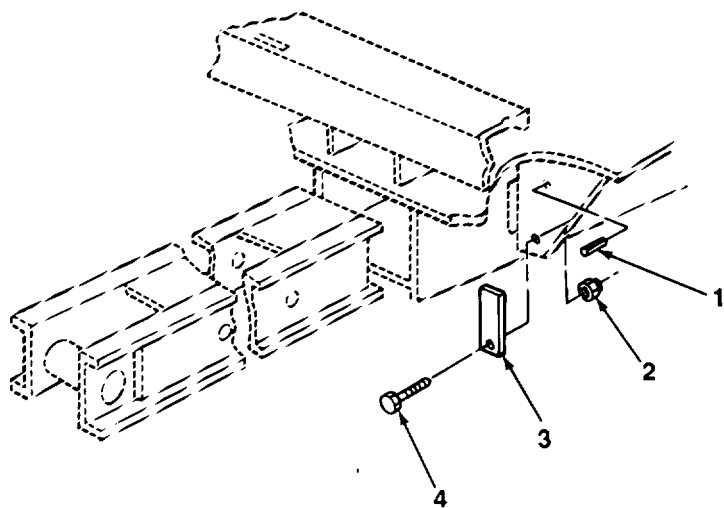


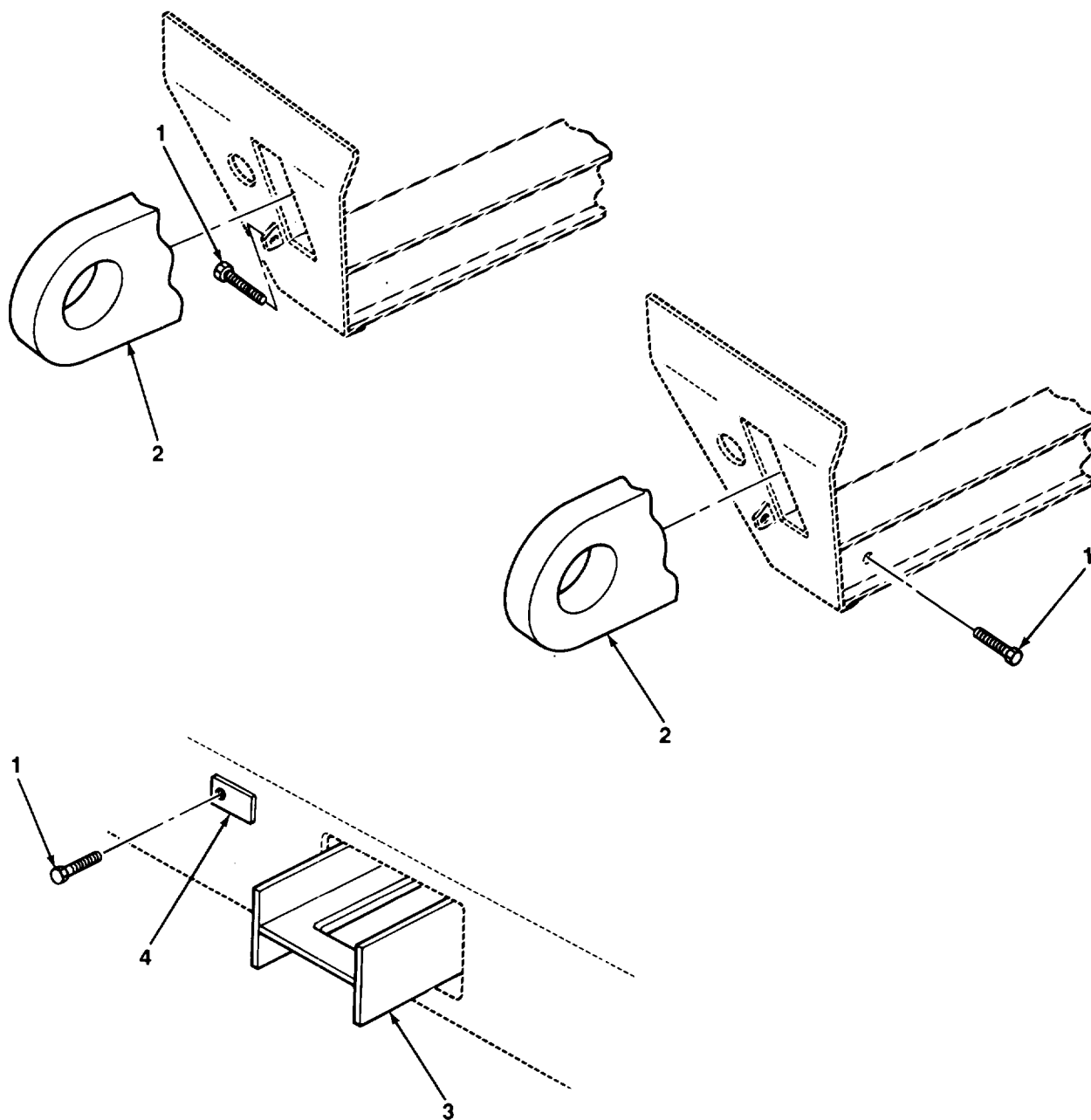
FIGURE 33. SLING PROVISION, L.H., FORWARD SIDERAIL, M872, M872A1, AND M872A2.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1503 PINTLES AND TOWING ATTACHMENTS					
FIG. 23 SLING PROVISION, L.H., FORWARD SIDERAIL, M872, M872A1, AND M872A2					
1	PAOZZ	96906	MS16562-62	PIN, SPRING UOC:U42,U64,O65	1
2	PAOZZ	96906	MS51922-17	NUT, SELF-LOCKING, HE UOC:U42,U64,O65	1
3	PAOZZ	25575	FA7860	SPACER, PLATE UOC:U42,U64,O65	1
4	PAOZZ	80204	B1821BH038C150N	SCREW, CAP, HEXAGON H UOC:U42,U64,O65	1

END OF FIGURE



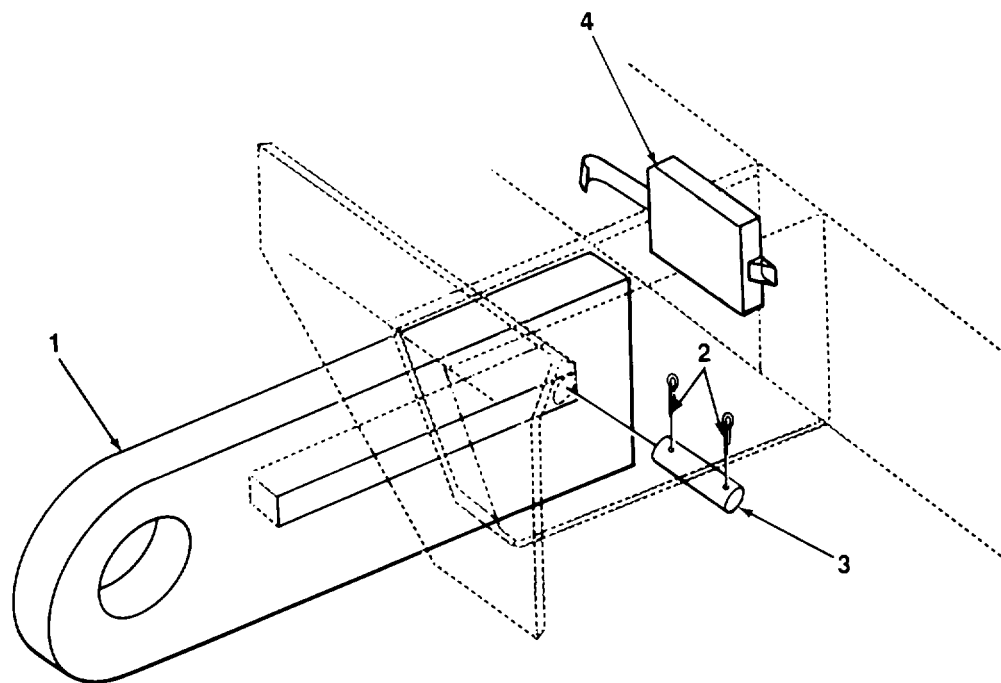
TA506110

FIGURE 34. SLING PROVISION, M872, M872A, AND M872A2.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 1503 PINTLES AND TOWING ATTACHMENTS	
				FIG. 34 SLING PROVISION, M872 M872A1, AND M872A2	
1	PAOZZ	59306	FA10361	CYLINDER, LOCK, VEHIC UOC:U42,U64,O65	3
2	PAOZZ	25575	FB10325-1	SLING EYE UOC:U42,U64,O65	2
3	XDOZZ	00000	TBD	SLING PROVISION UOC:U42	1
4	PAOZZ	25575	FA-7860	SPACER, PLATE UOC:U42	1
				END OF FIGURE	



TA506111

FIGURE 35. SLING PROVISION, M872A3.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1503 PINTLES AND TOWING ATTACHMENTS					
FIG. 35 SLING PROVISION, M872A3					
1	XDOZZ	4A198	18488P	EYE,LIFT UOC:041	4
2	PAOZZ	96906	MS24665-359	PIN,COTTER UOC:041	2
3	PAOZZ	98255	SW18538M	PIN,STRAIGHT,HEADLE UOC:041	1
4	PAOZZ	27182	90M FLUSH 45DEG	LOCK,FLUSH UOC:041	4
END OF FIGURE					

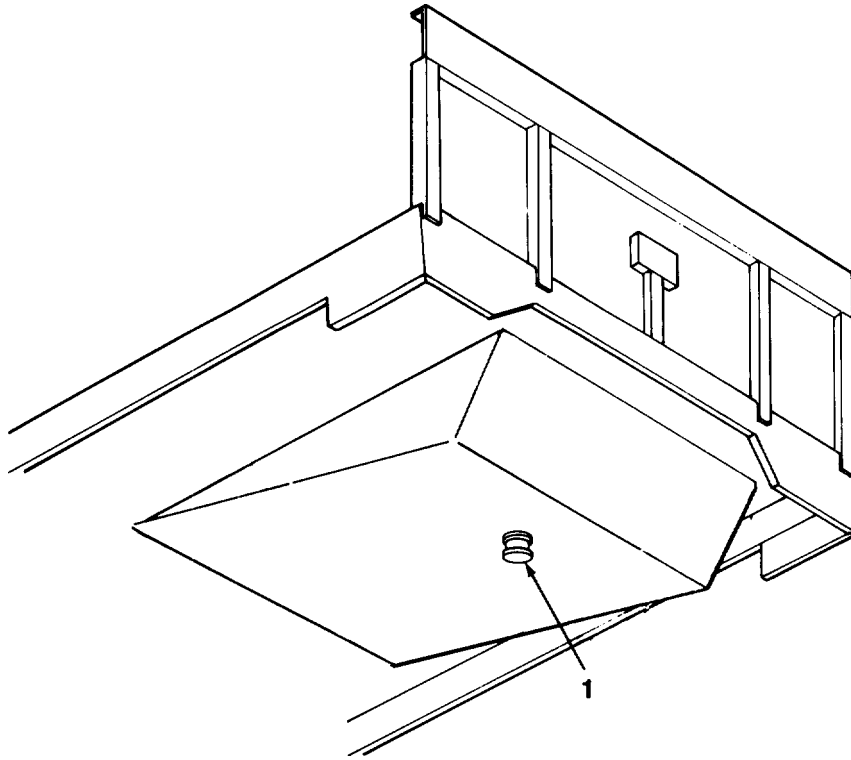
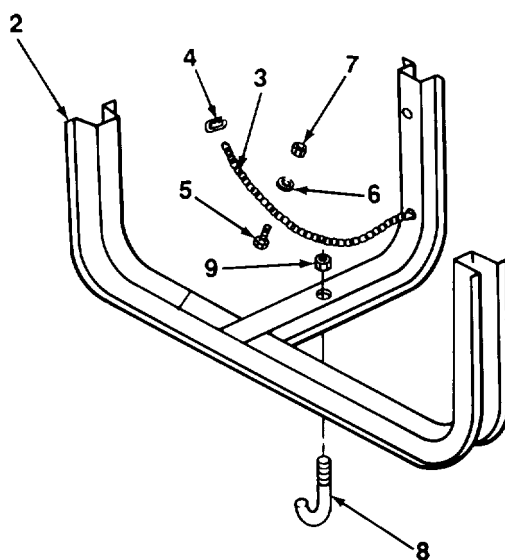
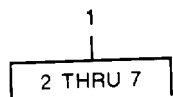


FIGURE 36. KINGPIN.

SECTION II

TM9-2330-359-14&PC02

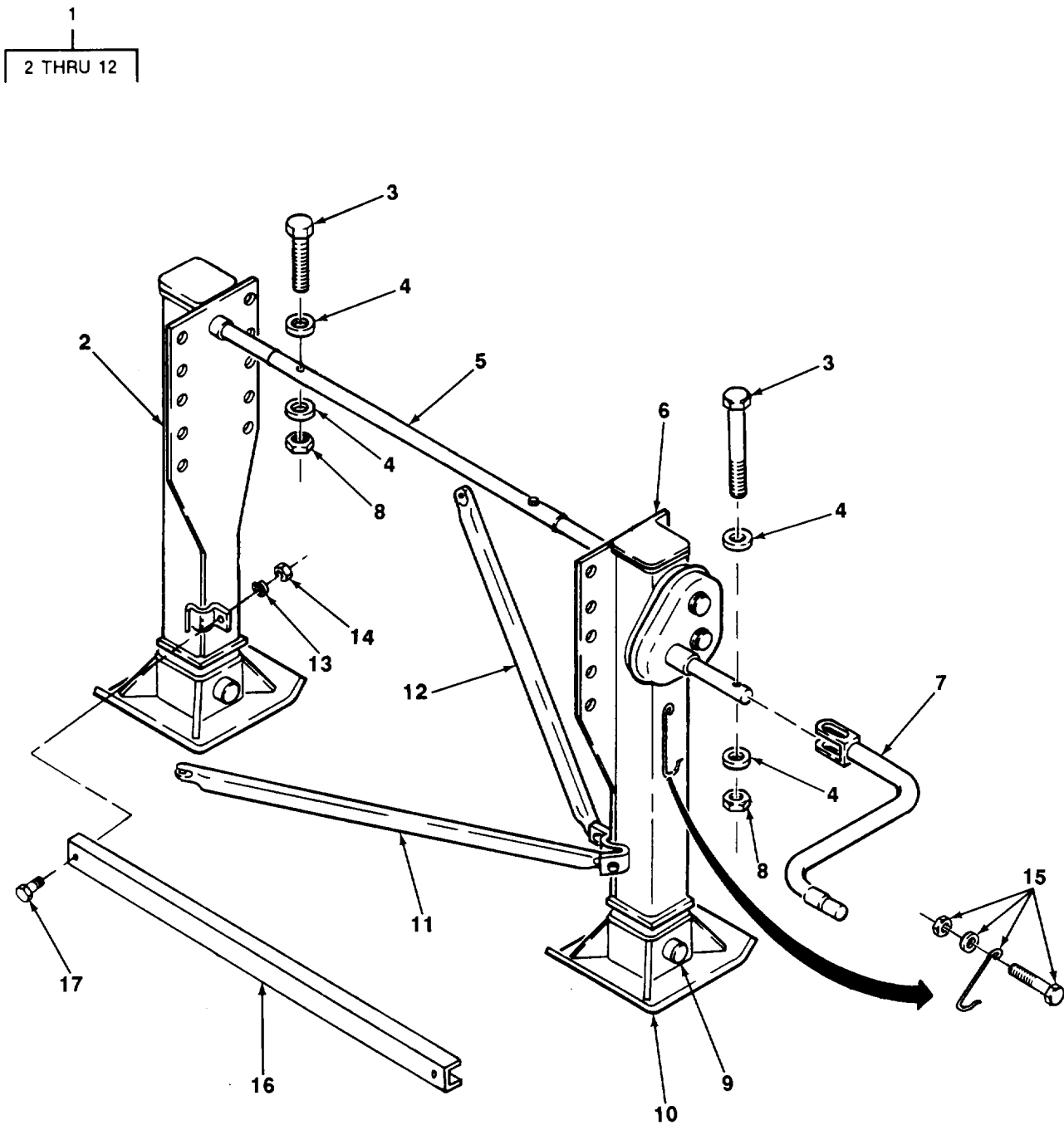
(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 1503 PINTLES AND TOWING ATTACHMENTS	
				FIG. 36 KINGPIN	
1	XDOZZ	00000	TBD	KING PIN	1
				END OF FIGURE	



TA706397

FIGURE 37. SPARE WHEEL CARRIER AND TIRE LOCK.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 1504 SPARE WHEEL CARRIER AND TIRE LOCK	
				FIG. 37 SPARE WHEEL CARRIER AND TIRE LOCK	
1	PFFZZ	59306	GA16851-24	CARRIER, SPARE TIRE UOC:U42,U64,065	1
1	XDFFF	98255	SW18515A	TIRE CARRIER UOC:041	1
2	XDFZZ	98255	SW18560P	TIRE CARRIER UOC:041	1
3	PAFZZ	98255	SW18713P	CHAIN ASSEMBLY, SING TIRE CARRIER ASSY UOC:041	1
4	PAFZZ	98255	SW18712P	LINK, CHAIN, DETACHAB TIRE CARRIER UOC:041	1
5	PAFZZ	96906	MS18154-58	SCREW, CAP, HEXAGON H SAFETY CHAIN MTG UOC:041	1
6	PAFZZ	96906	MS27183-14	WASHER, FLAT SAFETY CHAIN MTG UOC:041	1
7	PAFZZ	96906	MS35649-2382	NUT, PLAIN, HEXAGON SAFETY CHAIN MTG. UOC:041	1
8	PAFZZ	19207	10938443-2	NUT, PLAIN, SINGLE, BA SEAT HEXAGON	1
9	PAFZZ	19207	11593182	BOLT, HOOK	1
				END OF FIGURE	

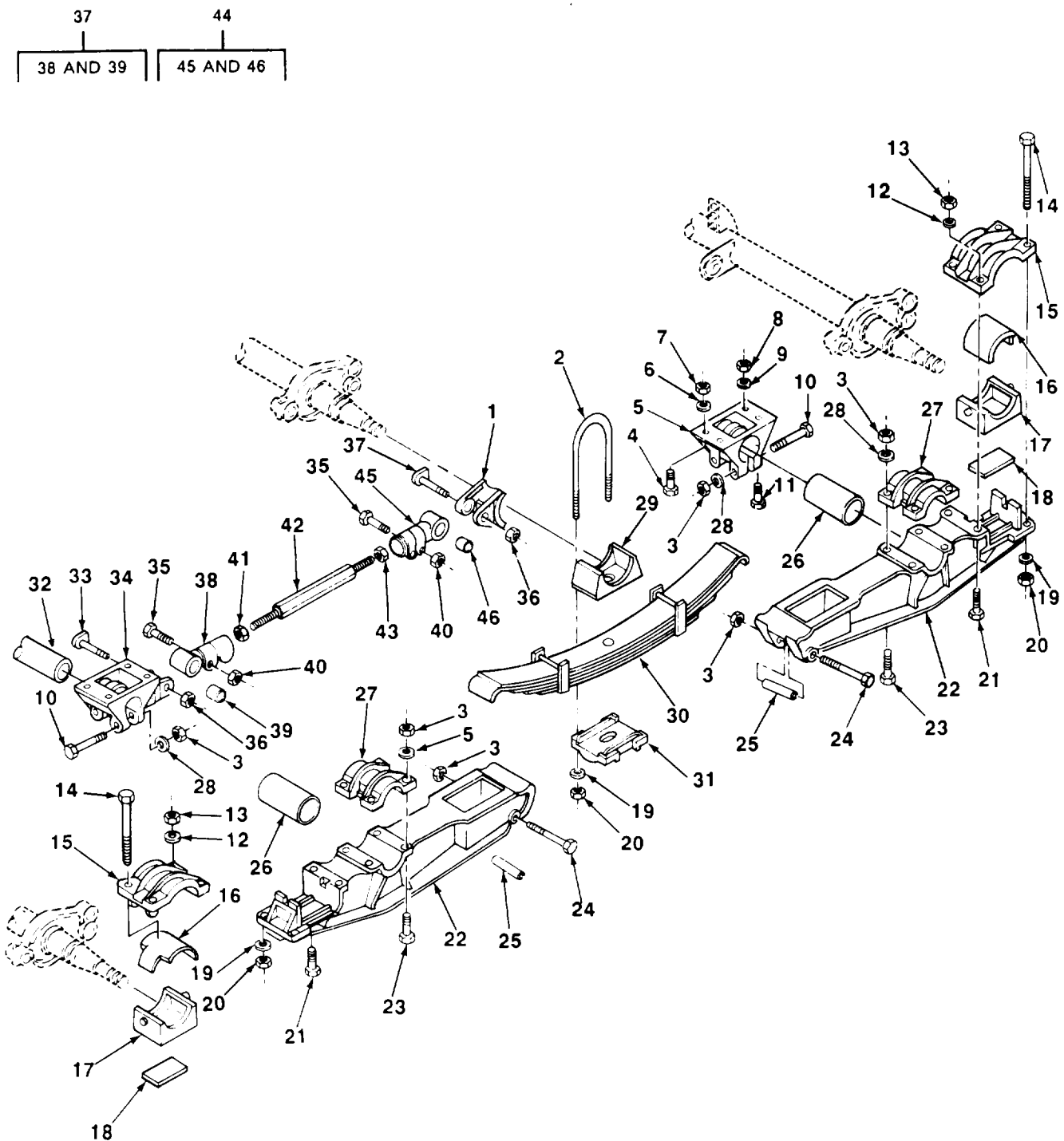


TA708399

FIGURE 38. LANDING GEAR AND MOUNTING HARDWARE.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1507 LANDING GEAR, LEVELING JACKS					
FIG. 38 LANDING GEAR AND MOUNTING HARDWARE					
1	PAOOO	99411	475095	SUPPORT,RETRACTABLE	1
2	PAOZZ	99411	LG5M29-91	.LEG,SEMITRAILER RET	1
3	PAOZZ	99411	PP0050-36	.SCREW,CAP,HEXAGON H	5
4	PAOZZ	99411	PP0016-03	.WASHER,FLAT	2
5	PAOZZ	99411	LG0094-33	.SHAFT,STRAIGHT	1
6	PAOZZ	99411	LG5M29-92	.LEG,SEMITRAILER RET W/GEAR BOX	1
7	PAOZZ	99411	LG0083-05	.CRANK,HAND	1
8	PAOZZ	99411	PP0012-22	.NUT,SELF-LOCKING,HE	5
9	PAOZZ	99411	LG0070-02	.PIN,STRAIGHT,HEADED	1
10	PAOZZ	99411	LG1511-01	.SHOE,JACK SUPPORT	1
11	PAOZZ	19207	11625075	.BRACE,LANDING GEAR	2
12	PAOZZ	19207	11625075-1	.BRACE,TUBE	2
13	PAOZZ	96906	MS35338-50	WASHER,LOCK	8
14	PAOZZ	96906	MS51967-20	NUT,PLAIN,HEXAGON	8
15	PAOZZ	80837	6880-86-1	HOLDER ASSEMBLY,CRA	1
16	PAOZZ	98255	SW14692M	CROSS,BRACE,LANDING	1
17	PAOZZ	80204	B1821BH063C225N	SCREW,CAP,HEXAGON H	8

END OF FIGURE



TA706400

FIGURE 39. THREE AXLE SUSPENSION ASSEMBLY, M872, M872A1, AND M872A2.

SECTION II

TM9-2330-359-14&PC02

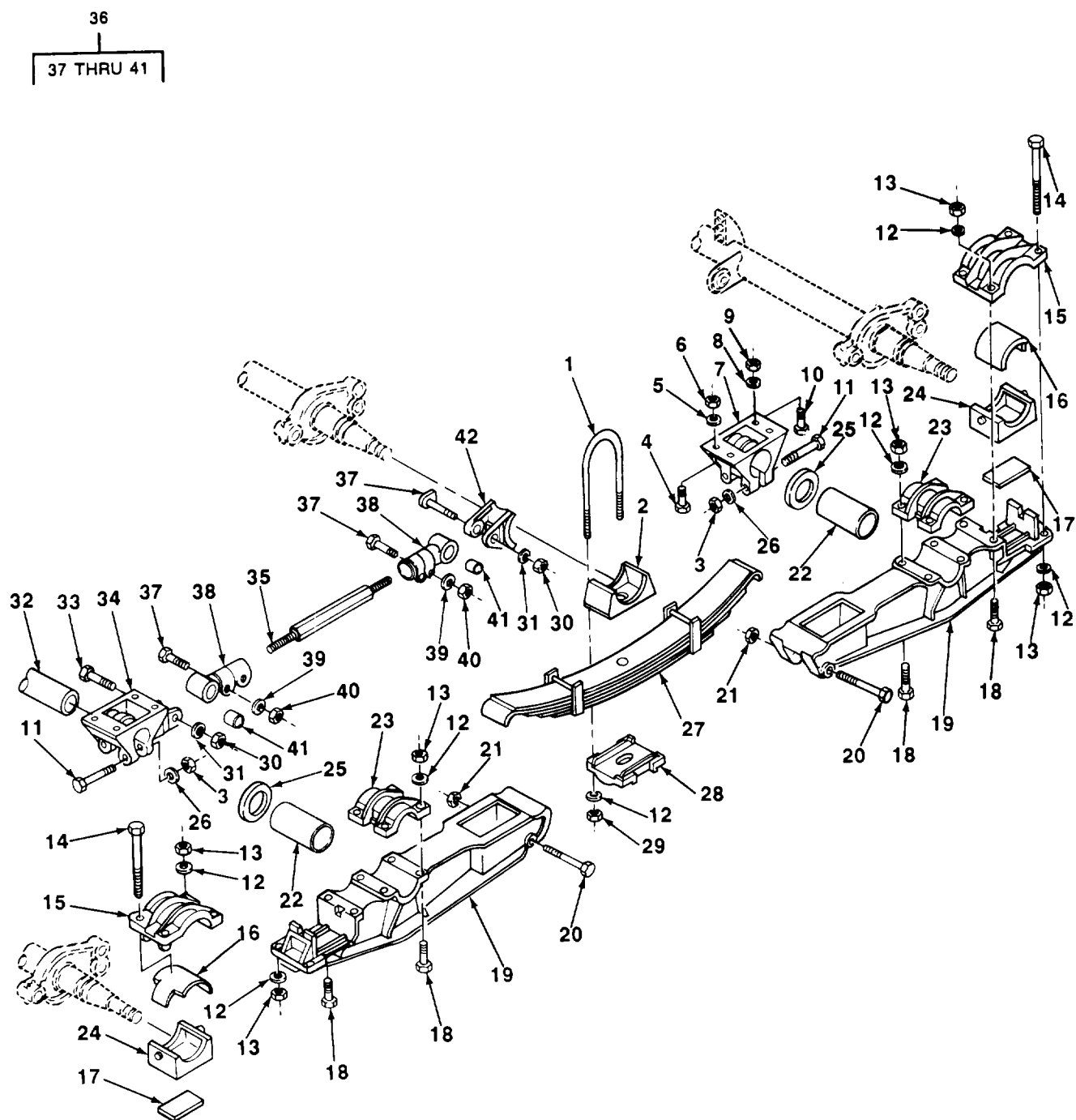
(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 16 SPRINGS AND SHOCK ABSORBERS					
GROUP 1601 SPRINGS					
FIG. 39 THREE AXLE SUSPENSION ASSEMBLY,M872,M872A1, AND M872A2					
1	PFFZZ	98171	910-18-005	BRACKET UOC:U42,U64,065	2
2	PAFZZ	98171	900-41-169	BOLT,U 7/8 IN-9 X 11 IN UOC:U42,U64,065	4
3	PAFZZ	98171	934-00-492	NUT,SELF-LOCKING,HE 3/4 IN-10 UOC:U42,U64,065	28
4	PAFZZ	98171	930-03-345	SCREW,CAP,HEXAGON H 5/8 IN-11 X 2 IN UOC:U42,U64,065	16
5	PAFZZ	98171	910-01-066	CLAMP,TRUNNION UOC:U42,U64,065	2
6	PAFZZ	96906	MS27183-21	WASHER,FLAT 5/8 IN UOC:U42,U64,065	16
7	PAFZZ	98171	934-00-488	NUT,SELF-LOCKING,HE 5/8-11 UOC:U42,U64,065	16
8	PAFZZ	96906	MS51922-49	NUT,SELF-LOCKING,HE UOC:U42,U64,065	16
9	PAFZZ	96906	MS27183-21	WASHER,FLAT UOC:U42,U64,065	16
10	PAFZZ	98171	930-03-633	SCREW,CAP,HEXAGON H 3/4 IN-10 X 5 IN UOC:U42,U64,065	8
11	PAFZZ	80204	B1821BH038C150N	SCREW,CAP,HEXAGON H UOC:U42,U64,065	16
12	PAFZZ	98171	936-00-186	WASHER 1 IN UOC:U42,U64,065	8
13	PAFZZ	98171	934-00-500	NUT,SELF-LOCKING,HE 1 IN-8 UOC:U42,U64,065	8
14	PAFZZ	98171	930-03-935	SCREW,CAP,HEXAGON H 7/8 IN-9 X 8-3/ 4 IN UOC:U42,U64,065	8
15	PFFZZ	98171	910-10-060	CAP,AXLE UOC:U42,U64,065	4
16	PAFZZ	98171	910-28-051	WRAPPER,AXLE UOC:U42,U64,065	4
17	PFFZZ	98171	910-01-089	ADAPTER,AXLE UOC:U42,U64,065	4
18	PAFZZ	98171	910-28-089	RUBBER STRIP UOC:U42,U64,065	4
19	PAFZZ	98171	936-00-162	WASHER 7/8 IN UOC:U42,U64,065	16
20	PAFZZ	98171	934-00-498	NUT,SELF-LOCKING,HE 7/8 IN-9 UOC:U42,U64,065	16
21	PAFZZ	98171	930-04-239	SCREW,CAP,HEXAGON H 1 IN-8 X 3-1/2 UOC:U42,U64,065	8

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
22	PFFZZ	98171	910-15-015	EQUALIZING BEAM UOC:U42,U64,065	4
23	PAFZZ	98171	93003575	SCREW,CAP,HEXAGON H 3/4IN-10 X 2-1/ 2 UOC:U42,U64,065	16
24	PAFZZ	98171	930-03-657	SCREW,CAP,HEXAGON H 3/4IN-10 X 6IN UOC:U42,U64,065	4
25	PAFZZ	98171	910-36-078	SPACER,SLEEVE UOC:U42,U64,065	4
26	PAFZZ	92967	11357-00	BUSHING,NONMETALLIC UOC:U42,U64,065	4
27	PFFZZ	98171	900-10-009	CAP,TRUNNION UOC:U42,U64,065	4
28	PAFZZ	98171	936-00-156	WASHER,FLAT 3/4 IN UOC:U42,U64,065	32
29	PFFZZ	98171	910-01-075	SEAT,AXLE SPRING UOC:U42,U64,065	2
30	PAFZZ	98171	915-57-172	SPRING ASSEMBLY,LEA UOC:U42,U64,065	2
31	PAFZZ	98171	910-10-108	SPRING CLAMP,CASTIN UOC:U42,U64,065	2
32	PAFZZ	98171	910-38-290	TUBE,METALLIC UOC:U42,U64,065	2
33	PAFZZ	98171	939-00-009	BOLT,MACHINE 1-1/4 IN-7 UOC:U42,U64,065	4
34	PAFZZ	98171	910-01-088	CLAMP,TRUNNION UOC:U42,U64,065	2
35	PAFZZ	98171	930-02-921	SCREW,CAP,HEXAGON H UOC:U42,U64,065	2
36	PAFZZ	98171	934-00-569	NUT,SELF-LOCKING,HE 1-1/4 IN-7 UOC:U42,U64,065	4
37	PAOOO	98171	915-44-003	ROD END UOC:U42,U64,065	2
38	PAOZZ	98171	910-44-004	.RADIUS ROD END,RH UOC:U42,U64,065	1
39	PAOZZ	98171	910-08-007	.MOUNT,RESILIENT UOC:U42,U64,065	1
40	PAFZZ	98171	934-00-480	NUT 1/2 IN UOC:U42,U64,065	4
41	PAFZZ	98171	934-00-284	NUT,PLAIN,HEXAGON 1-1/4 IN-7RH UOC:U42,U64,065	2
42	PBFZZ	98171	915-06-003	ROD,THREADED END 1-1/14 IN-7 X 2-3/4 UOC:U42,U64,065	2
43	PAFZZ	98171	934-00-036	NUT,PLAIN,HEXAGON 1-1/4 IN-7LH UOC:U42,U64,065	2
44	PAOOO	98171	915-44-002	ROD END UOC:U42,U64,065	2
45	XAOZZ	98171	910-44-003	.RADIUS ROD END,LH UOC:U42,U64,065	1
46	PAOZZ	98171	910-08-007	.MOUNT,RESILIENT UOC:U42,U64,065	2

END OF FIGURE



TA506122

FIGURE 40. THREE AXLE SUSPENSION ASSEMBLY, M872A3.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1601 SPRINGS					
FIG. 40 THREE AXLE SUSPENSION ASSEMBLY, M872A3					
1	PAFZZ	92967	7816-56	BOLT,U UOC:041	4
2	XBFZZ	92967	11497-00	SEAT,AXLE SPRING UOC:041	2
3	PAFZZ	92967	841-00	NUT,SELF-LOCKING,HE UOC:041	8
4	PAFZZ	80204	B1821BH063C225N	SCREW,CAP,HEXAGON H UOC:041	16
5	PAFZZ	96906	MS27183-21	WASHER,FLAT UOC:041	16
6	PAFZZ	96906	MS51922-49	NUT,SELF-LOCKING,HE UOC:041	16
7	XBFZZ	92967	11453-00	BRACKET,TRUNION UOC:041	2
8	PAFZZ	96906	MS27183-21	WASHER,FLAT UOC:041	16
9	PAFZZ	96906	MS51922-49	NUT,SELF-LOCKING,HE UOC:041	16
10	PAFZZ	80204	B1821BH038C150N	SCREW,CAP,HEXAGON H UOC:041	16
11	PAFZZ	92967	11456-00	SCREW,CAP,HEXAGON H UOC:041	8
12	PAFZZ	92967	35-00	WASHER,FLAT UOC:041	32
13	PAFZZ	92967	11514-00	NUT,PLAIN,EXTENDED UOC:041	32
14	PAFZZ	92967	11443-00	SCREW,CAP,HEXAGON H UOC:041	8
15	PAFZZ	92967	11444-00	STRAP,RETAINING UOC:041	4
16	PAFZZ	92967	11445-00	RUBBER STRIP UOC:041	4
17	PCFZZ	92967	11433-00	BUMPER,NONMETALLIC UOC:041	4
18	PAFZZ	92967	11435-00	SCREW,CAP,HEXAGON H UOC:041	24
19	PAFZZ	92967	11441-00	STRAP,RETAINING UOC:041	4
20	PAFZZ	92967	11439-00	SCREW,CAP,HEXAGON H UOC:041	4
21	PAFZZ	92967	37-03	NUT,SELF-LOCKING,HE UOC:041	4
22	PAFZZ	92967	11357-00	BUSHING,NONMETALLIC UOC:041	4
23	PAFZZ	92967	11434-00	STRAP,RETAINING UOC:041	4
24	XBFZZ	92967	11432-00	ADAPTER,AXLE END	4

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
25	PAFZZ	92967	11452-00	UOC:041 WASHER,FLAT	4
26	PAFZZ	92967	817-00	UOC:041 WASHER,FLAT	8
27	PAFZZ	92967	11436-00	UOC:041 SPRING ASSEMBLY,LEA	2
28	PAFZZ	92967	11438-00	UOC:041 PLATE,WEAR,LEAF SPR	2
29	PAFZZ	92967	34-04	UOC:041 NUT,PLAIN,HEXAGON	8
30	PAOZZ	92967	11449-00	UOC:041 NUT,PLAIN,HEXAGON	4
31	PAOZZ	92967	837-00	UOC:041 WASHER,FLAT	4
32	PAFZZ	92967	11446-00	UOC:041 TUBE,METALLIC	2
33	PAOZZ	92967	11448-00	UOC:041 BOLT,MACHINE	4
34	XBFZZ	92967	11447-00	UOC:041 BRACKET,TRUNION	2
35	PBOZZ	92967	11451-00	UOC:041 ROD,ALIGNING,VEHICU	2
36	PAOOO	92967	11450-01	UOC:041 TORQUE ROD,END	2
36	PAOOO	92967	11450-02	UOC:041 TORQUE ROD,END	2
37	PAOZZ	92967	718-00	UOC:041 .SCREW,CAP,HEXAGON H	4
38	XAOZZ	92967	11478-00	UOC:041 .ROD END,RADIUS	1
38	XAOZZ	92967	11478-02	UOC:041 .ROD END,RADIUS	1
39	PFOZZ	92967	32-00	UOC:041 .WASHER,LOCK	4
40	PFOZZ	92967	33-01	UOC:041 .NUT,PLAIN,HEXAGON	4
41	PAOZZ	92967	11477-00	UOC:041 .BUSHING,SLEEVE	1
42	XBFZZ	92967	11437-00	UOC:041 BRACKET	2

END OF FIGURE

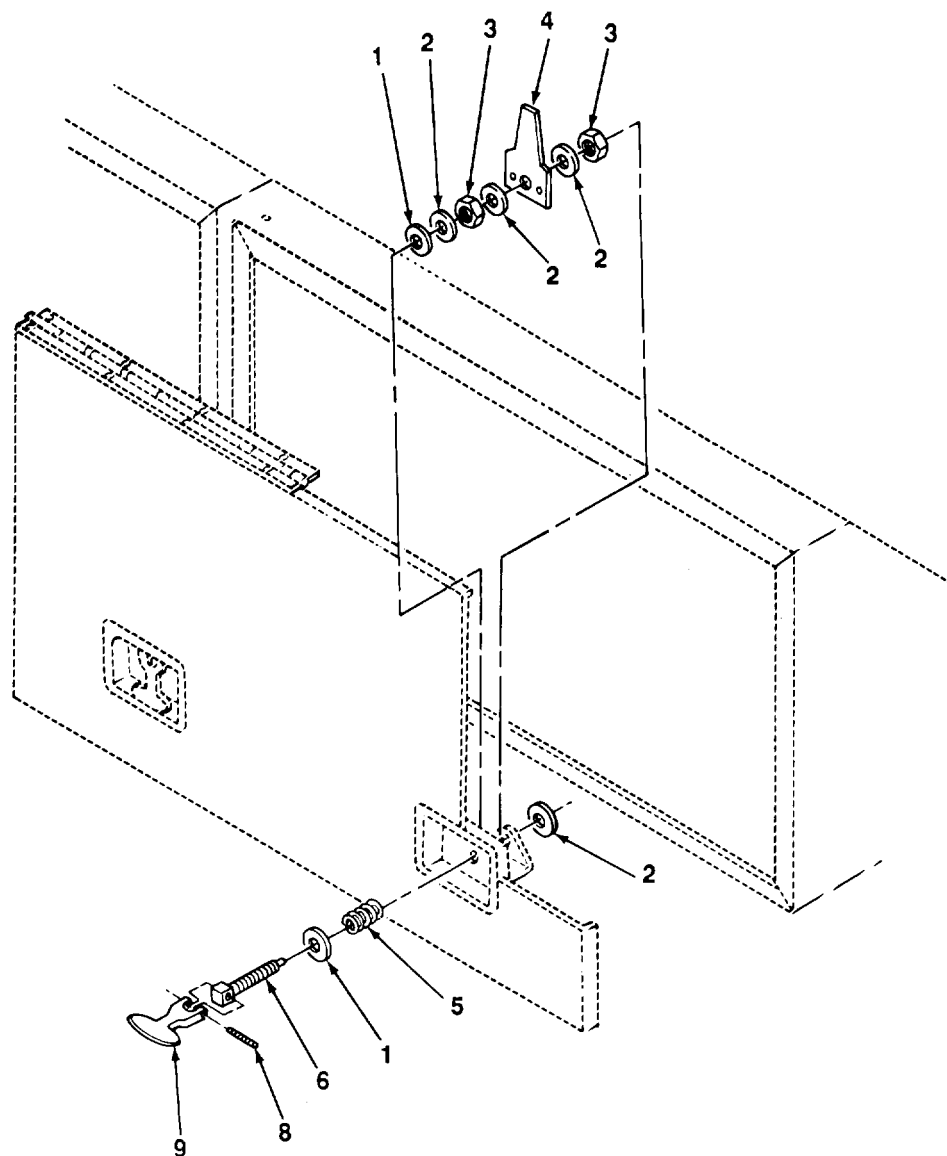
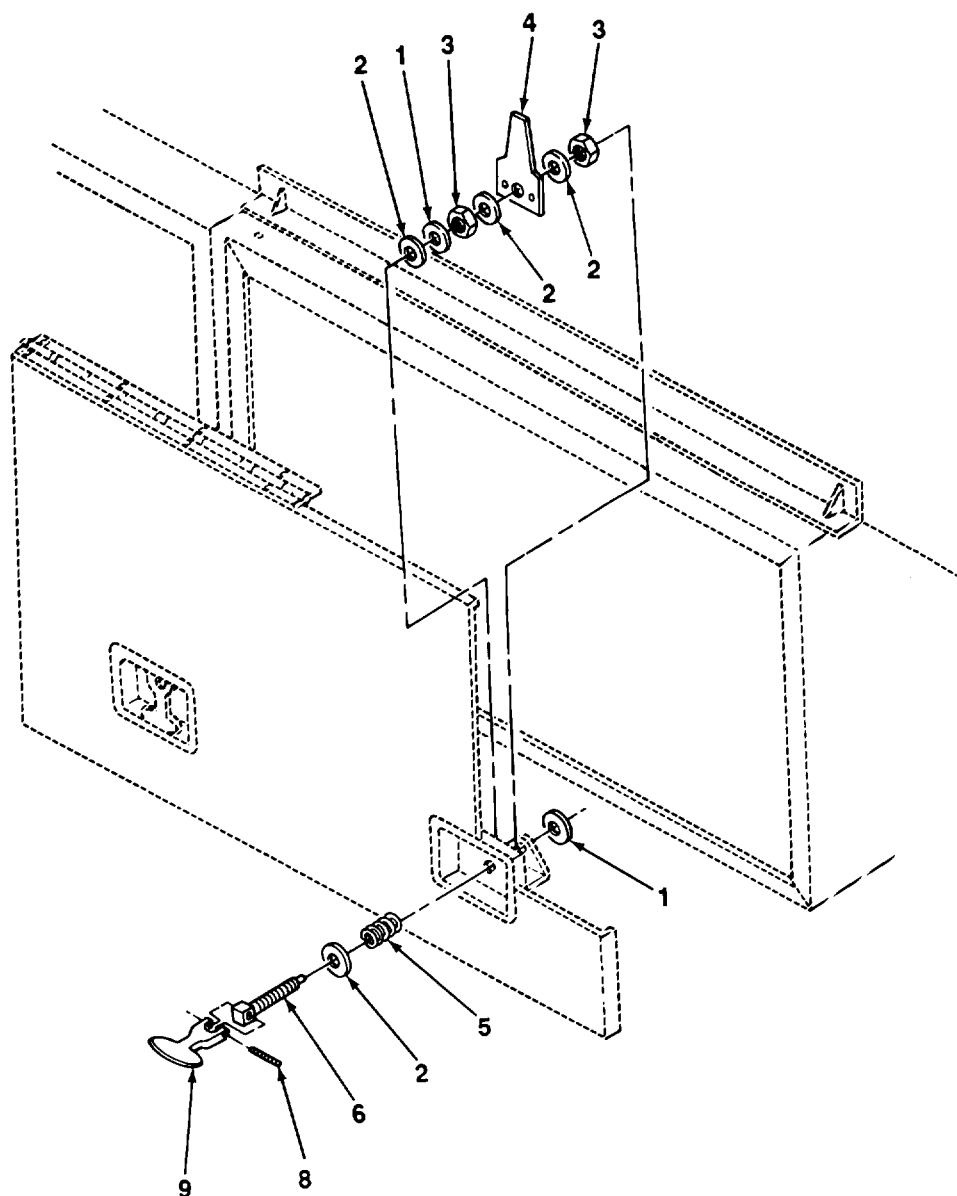
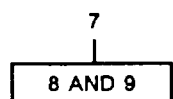


FIGURE 41. DOOR HANDLE, STOWAGE COMPARTMENT, M872, M872A1, AND M872A2, CURBSIDE,

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 18 BODY, CAB, HOOD, AND HULL					
GROUP 1801 BODY, CAB, HOOD, AND HULL ASSEMBLIES					
FIG. 41 DOOR HANDLE, STOWAGE COMPARTMENT, M872, M872A1, AND M872A2, CURBSIDE					
1	PAFZZ	19220	15592	SPACER,RING UOC:U42,U64,065	1
2	PAFZZ	19220	8000-4	RING,RETAINING UOC:U42,U64,065	2
3	PAFZZ	19220	5X252	NUT UOC:U42,U64,065	1
4	PAOZZ	19220	8000-2	FASTENER,PAWL UOC:U42,U64,065	2
5	PAFZZ	19220	15595	SPRING,HELICAL,COMP UOC:U42,U64,065	1
6	XDFZZ	19220	8000-1	STUD,THREADED UOC:U42,U64,065	1
7	PAFZZ	19220	8000	FASTENER,PAWL UOC:U42,U64,065	2
8	PAFZZ	19220	8000PIN	.PIN UOC:U42,U64,065	1
9	XDFZZ	19220	8000-51	.HANDLE,DOOR UOC:U42,U64,065	1
END OF FIGURE					

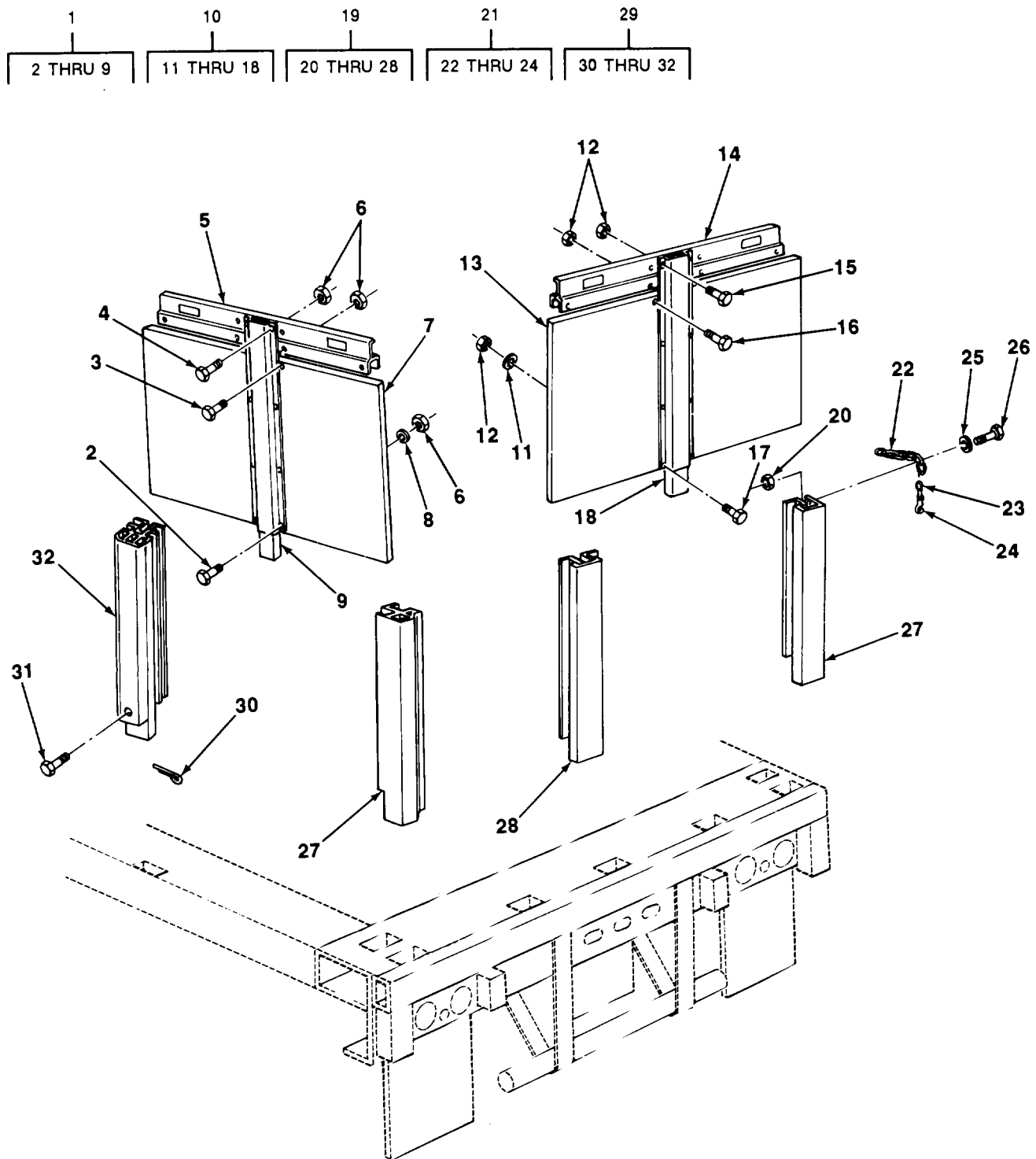


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FIGURE 42. DOOR HANDLE, SIDE RACK STOWAGE COMPARTMENT, M872, ROADSIDE,

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1801 BODY, CAB, HOOD, AND HULL ASSEMBLIES					
FIG. 42 DOOR HANDLE, SIDE RACK STOWAGE COMPARTMENT, M872, ROADSIDE					
1	PAFZZ	19220	15592	SPACER,RING UOC:U42	2
2	PAFZZ	19220	8000-4	RING,RETAINING UOC:U42	1
3	PAFZZ	19220	5X252	NUT UOC:U42	4
4	PAFZZ	19220	8000-2	FASTENER,PAWL UOC:U42	1
5	PAFZZ	19220	15595	SPRING,HELICAL,COMP UOC:U42	2
6	XDFZZ	19220	8000-1	STUD,THREADED UOC:U42	1
7	PAFZZ	19220	8000	FASTENER,PAWL UOC:U42	2
8	PAFZZ	19220	8000PIN	.PIN UOC:U42	2
9	XAFZZ	19220	8000-51	.HANDLE,DOOR UOC:U42	1

END OF FIGURE

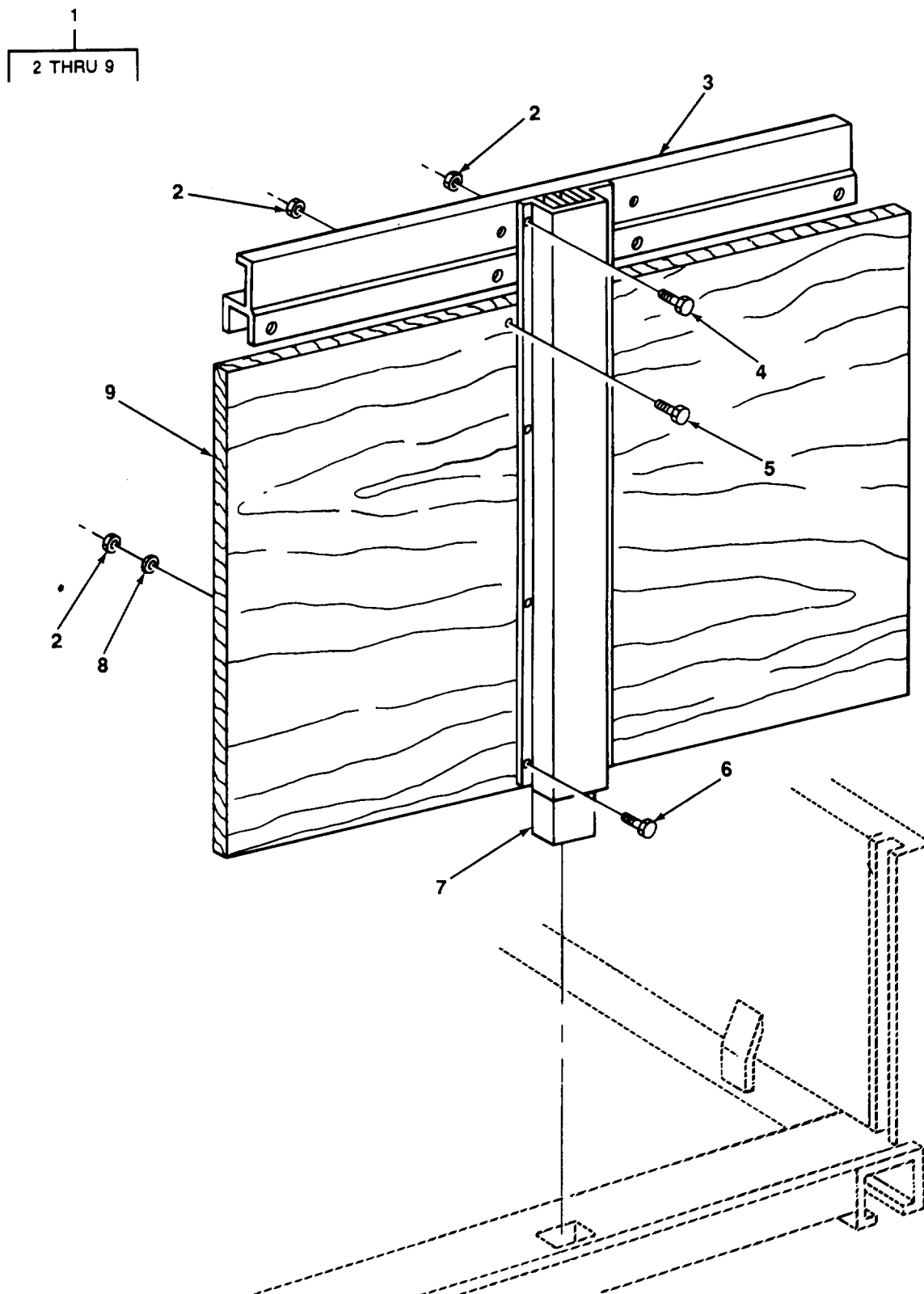


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FIGURE 43. REAR AND INTERMEDIATE SIDE RACKS AND POSTS.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1801 BODY, CAB, HOOD, AND HULL ASSEMBLIES					
FIG. 43 REAR AND INTERMEDIATE SIDE RACKS AND POSTS					
1	PAOOO	25575	AB36-032	INTERMEDIATE SIDE RACK VEHICLE	18
2	PAOZZ	11815	15055P	.BOLT,ASSEMBLED WASH	6
3	PAOZZ	80204	B1821BH025C150N	.SCREW,CAP,HEXAGON H	4
4	PAOZZ	96906	MS90725-6	.SCREW,CAP,HEXAGON H	2
5	PAOZZ	98255	SW14880M2	.CAP,PROTECTIVE	1
6	PAOZZ	96906	MS51922-1	.NUT,SELF-LOCKING,HE STAKE DRAIN MOUNTING	12
7	PAOZZ	25575	AB36-032-2	.INTERMEDIATE SIDE RACK PANEL	1
8	PAOZZ	98255	SW15056P	.WASHER	12
9	PAOZZ	98255	SW14657M	.STAKE,VEHICLE BODY	1
10	PAOOO	25575	AB36-033	REAR SIDE RACK,VEHI	2
11	PAOZZ	98255	SW15056P	.WASHER	6
12	PAOZZ	96906	MS51922-1	.NUT,SELF-LOCKING,HE	12
13	PAOZZ	98255	SW14671P-3	.REAR SIDE RACK PANE	1
14	PAOZZ	98255	SW14880M3	.CAP,PROTECTIVE,SIDE	1
15	PAOZZ	80204	B1821BH025C150N	.SCREW,CAP,HEXAGON H	12
16	PAOZZ	96906	MS90725-5	.SCREW,CAP,HEXAGON H	2
17	PAOZZ	11815	15055P	.BOLT,ASSEMBLED WASH	6
18	PAOZZ	98255	SW14657M	.STAKE,VEHICLE BODY	1
19	PAOOO	98255	SW15254A1	STAKE,VEHICLE BODY LEFT REAR CORNER (COMPONENT PARTS SAME AS STAKE ASSY P/N SW15254A2,EXCEPT WHERE ANNOTATED)	2
19	PAOOO	98255	SW15254A2	STAKE,VEHICLE BODY LEFT REAR CORNER	1
20	PAOZZ	96906	MS51922-1	.NUT,SELF-LOCKING,HE	1
21	PAOZZ	98255	SW15266A	.CHAIN ASSEMBLY,SING	1
22	PAOZZ	98255	SW10998P1-18	..CHAIN,WELDED	1
23	PAOZZ	98255	SW11935P-1	..LINK,CHAIN,LAP	1
24	PAOZZ	80874	225-750	..SNAP HOOK	1
25	PAOZZ	96906	MS27183-10	.WASHER,FLAT	1
26	PAOZZ	96906	MS35206-283	.SCREW,MACHINE	1
27	PAOZZ	98255	SW14659M1	.STAKE,VEHICLE BODY CORNER STAKE ASSEMBLY (USED ON STAKE ASSY,P/N SW15254A1ONLY)	1
27	PAOZZ	98255	SW14659M2	.STAKE,VEHICLE BODY CORNER STAKE ASSY.(USED ON STAKE ASSY.P/N SW15254A2 ONLY)	1
28	PAOZZ	98255	SW14658M	.STAKE,VEHICLE BODY	19
29	PAOOO	98255	14804A	SIDERACKS	1
30	PAOZZ	19207	7753911	.PIN,LOCK	2
31	PAOZZ	25575	SKC22576-11	.SCREW,CAP,HEXAGON H 3/8-24 X 2 IN.	42
32	PAOZZ	25575	FB7552	.POST,REMOVABLE	18

END OF FIGURE



TA506132

FIGURE 44. FORWARD SIDE RACK, R.H.

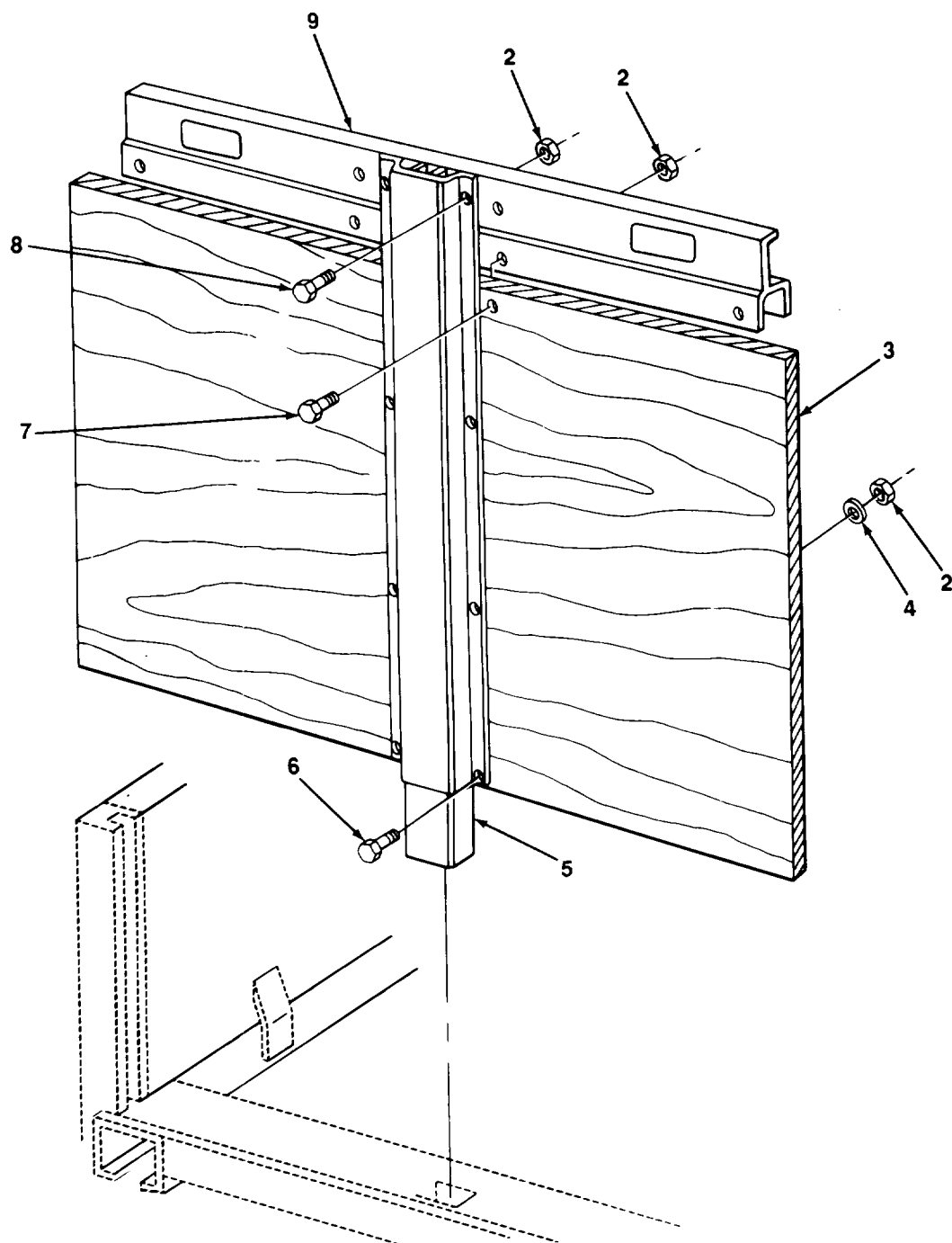
SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1801 BODY, CAB, HOOD, AND HULL ASSEMBLIES					
FIG. 44 FORWARD SIDE RACK, R.H.					
1	PAOOO	25575	AB36-034-2	SIDE RACK,VEHICLE B CURB SIDE	1
2	PAOZZ	96906	MS51922-1	.NUT,SELF-LOCKING,HE STAKE DRAIN MOUNTING	12
3	PAOZZ	98255	SW14880M-4	.CAP,PROTECTIVE	1
4	PAOZZ	96906	MS90725-6	.SCREW,CAP,HEXAGON H	2
5	PAOZZ	80204	B1821BH025C150N	.SCREW,CAP,HEXAGON H	4
6	PAOZZ	11815	15055P	.BOLT,ASSEMBLED WASH	6
7	PAOZZ	98255	SW14657M	.STAKE,VEHICLE BODY	1
8	PAOZZ	98255	SW15056P	.WASHER	12
9	XD0ZZ	98255	SW14671P	.SIDERACK	1

END OF FIGURE

1
2 THRU 9

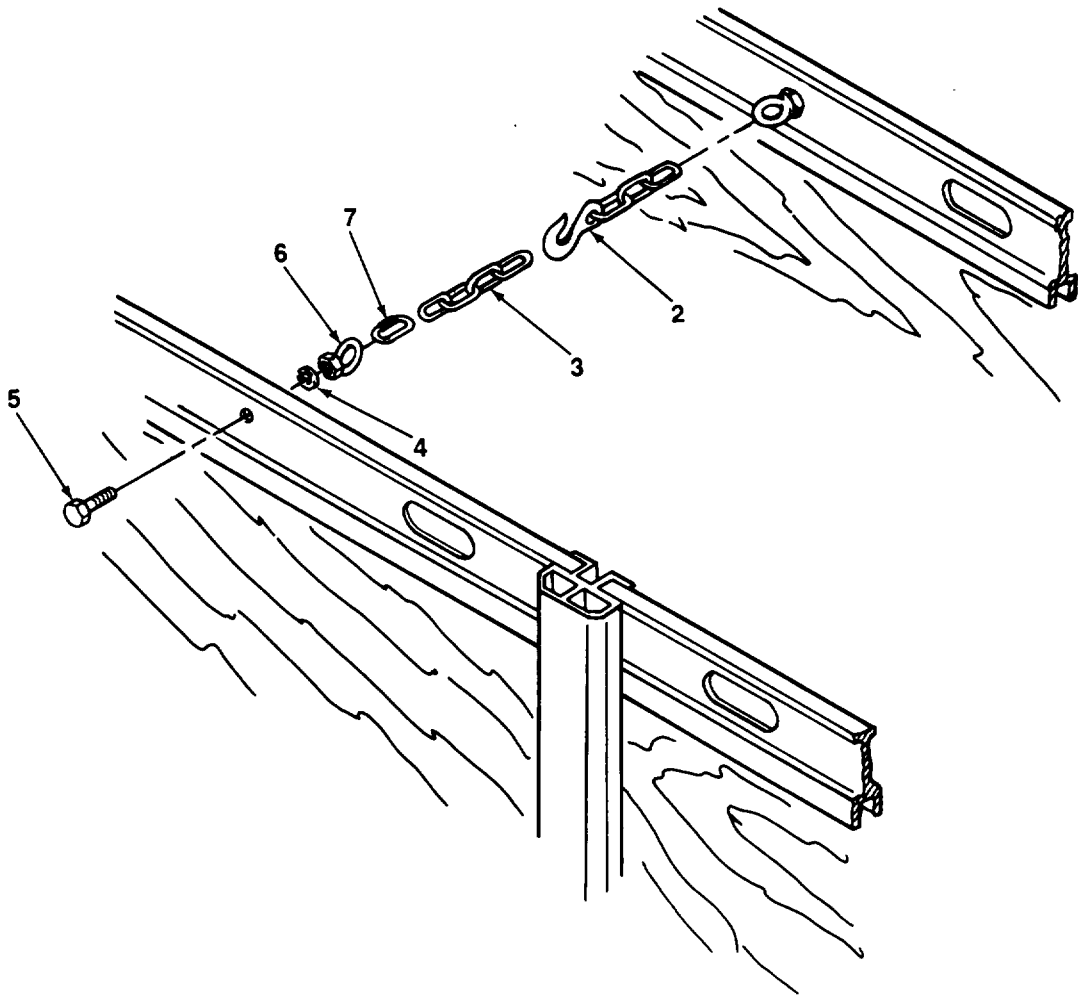
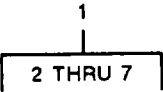


TA506130

FIGURE 45. FORWARD SIDE RACK, L.H.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1801 BODY, CAB, HOOD, AND HULL ASSEMBLIES					
FIG. 45 FORWARD SIDE RACK, L.H.					
1	PAOOO	8S867	M871PNL1	SIDE RACK,VEHICLE B STREET SIDE	1
2	PAOZZ	96906	MS51922-1	.NUT,SELF-LOCKING,HE	12
3	PAOZZ	98255	SW14880M-1	.CAP,PROTECTIVE	1
4	PAOZZ	96906	MS90725-6	.SCREW,CAP,HEXAGON H	2
5	PAOZZ	80204	B1821BH025C150N	.SCREW,CAP,HEXAGON H	4
6	PAOZZ	11815	15055P	.BOLT,ASSEMBLED WASH	6
7	PAOZZ	98255	SW14657M	.STAKE,VEHICLE BODY	1
8	PAOZZ	98255	SW15056P	.WASHER	6
9	PAOZZ	98255	SW14671P-1	.SIDE RACK,VEHICLE B	1

END OF FIGURE



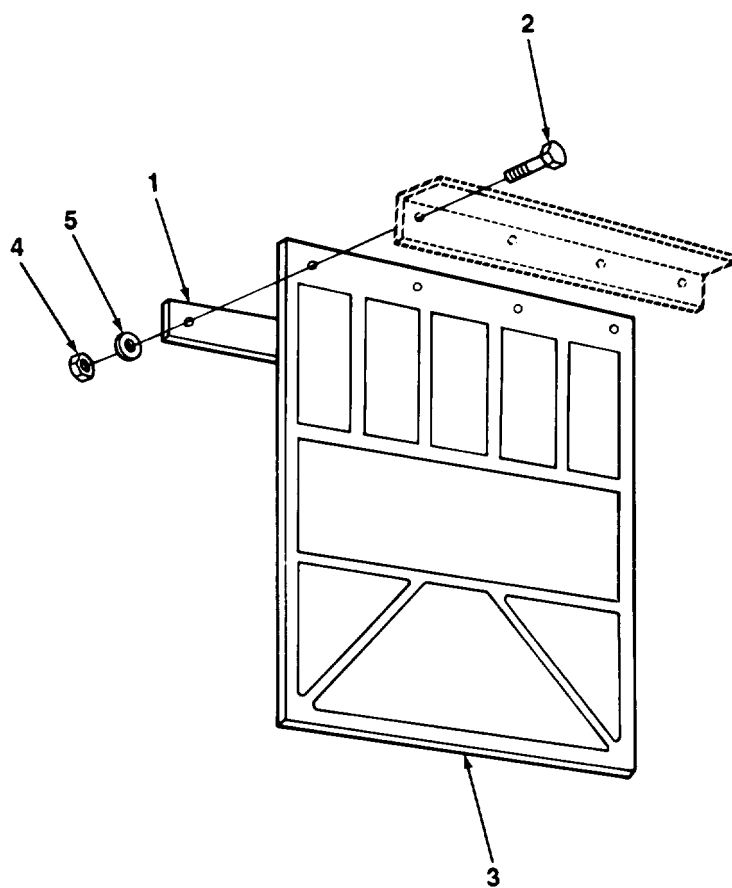
TA506135

FIGURE 46. SPREADER CHAIN ASSEMBLIES.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1801 BODY, CAB, HOOD, AND HULL ASSEMBLIES					
FIG. 46 SPREADER CHAIN ASSEMBLIES					
1	PAOZZ	19207	8739382	CHAIN ASSEMBLY,SING UOC:U42,U64,065	1
1	PAOZZ	PAOZZ	SW14699A	CHAIN ASSEMBLY,SING UOC:041	2
2	PAOZZ	98255	SW14696P	.HOOK,HOIST	1
3	PAOZZ	25575	SKC22576-18	.COIL,CAIN 1/4 IN. GALVINIZED, 54 IN. LONG	2
4	PAOZZ	96906	MS35338-46	.WASHER,LOCK	2
5	PAOZZ	96906	MS51937-3	.BOLT,EYE	2
6	PAOZZ	96906	MS51967-8	.NUT,PLAIN,HEXAGON	2
7	PAOZZ	98255	SW11935P-1	.LINK,CHAIN,LAP	3
END OF FIGURE					



TA506136

FIGURE 47. MUDFLAPS,

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 1801 BODY, CAB, HOOD, AND HULL ASSEMBLIES					
FIG. 47 MUDFLAPS					
1	PAOZZ	25575	FA4798	STRIP,MUD FLAP UOC:U42,U64,065	2
1	PAOZZ	98255	SW14417M	RETAINER,SPLASH GUA UOC:041	2
2	PAOZZ	80204	B1821BH038C125N	SCREW,CAP,HEXAGON H UOC:U42,U64,065	8
3	PAOZZ	96906	MS51331-6	GUARD,SPLASH,WHEEL UOC:U42,U64,065	2
3	PAOZZ	19207	10882200	GUARD,SPLASH,VEHICU UOC:041	2
4	PAOZZ	96906	MS51922-17	NUT,SELF-LOCKING,HE UOC:U42,U64,065	8
4	PAOZZ	96906	MS35649-2382	NUT,PLAIN,HEXAGON STRIP MTG UOC:041	8
5	PAOZZ	96906	MS35338-46	WASHER,LOCK STRIP MTG UOC:U42,041	8
END OF FIGURE					

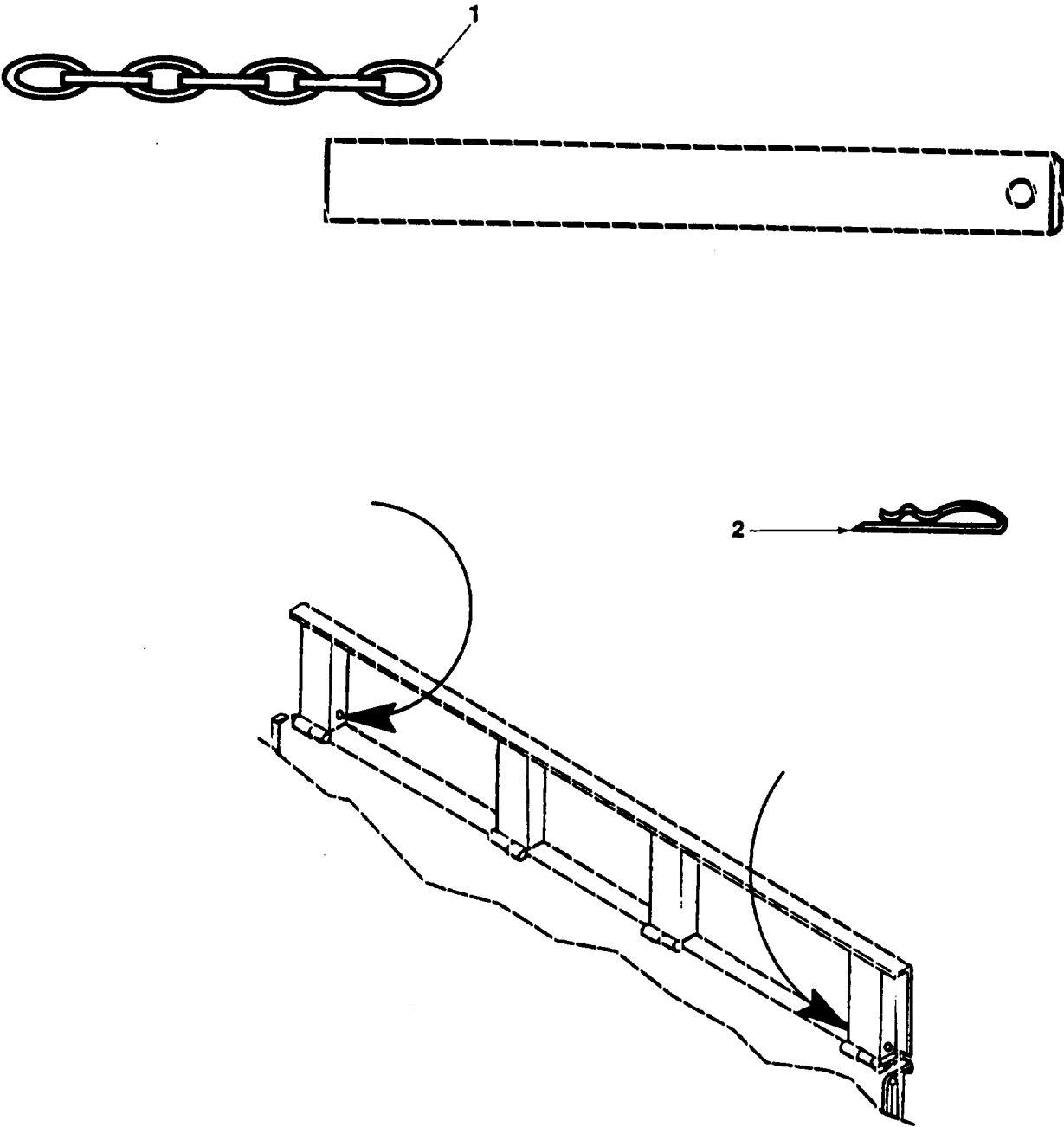
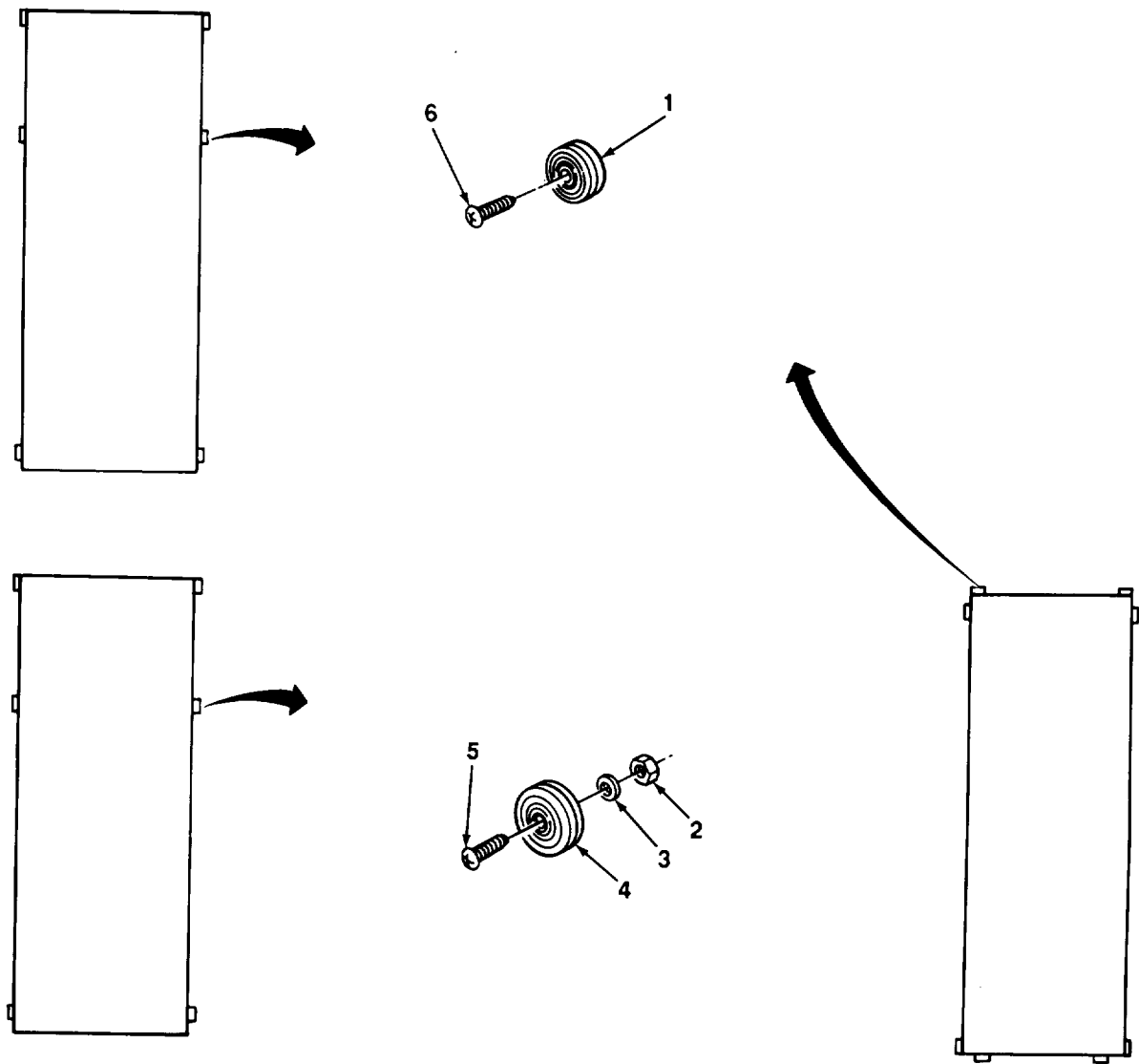


FIGURE 48, BULKHEAD EXTENSION LOCKING PARTS, M872A1, M872A2, AND M872A3.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 1801 BODY, CAB, HOOD, AND HULL ASSEMBLIES	
				FIG. 48 BULKHEAD EXTENSION LOCKING PARTS, M872A1, M872A2, AND M872A3	
1	PAOZZ	80244	42-C-16570	CHAIN WELDED UOC:U64,041,065	2
2	PAOZZ	80244	AN415-5	PIN, LOCK UOC:U64,041,065	2
				END OF FIGURE	



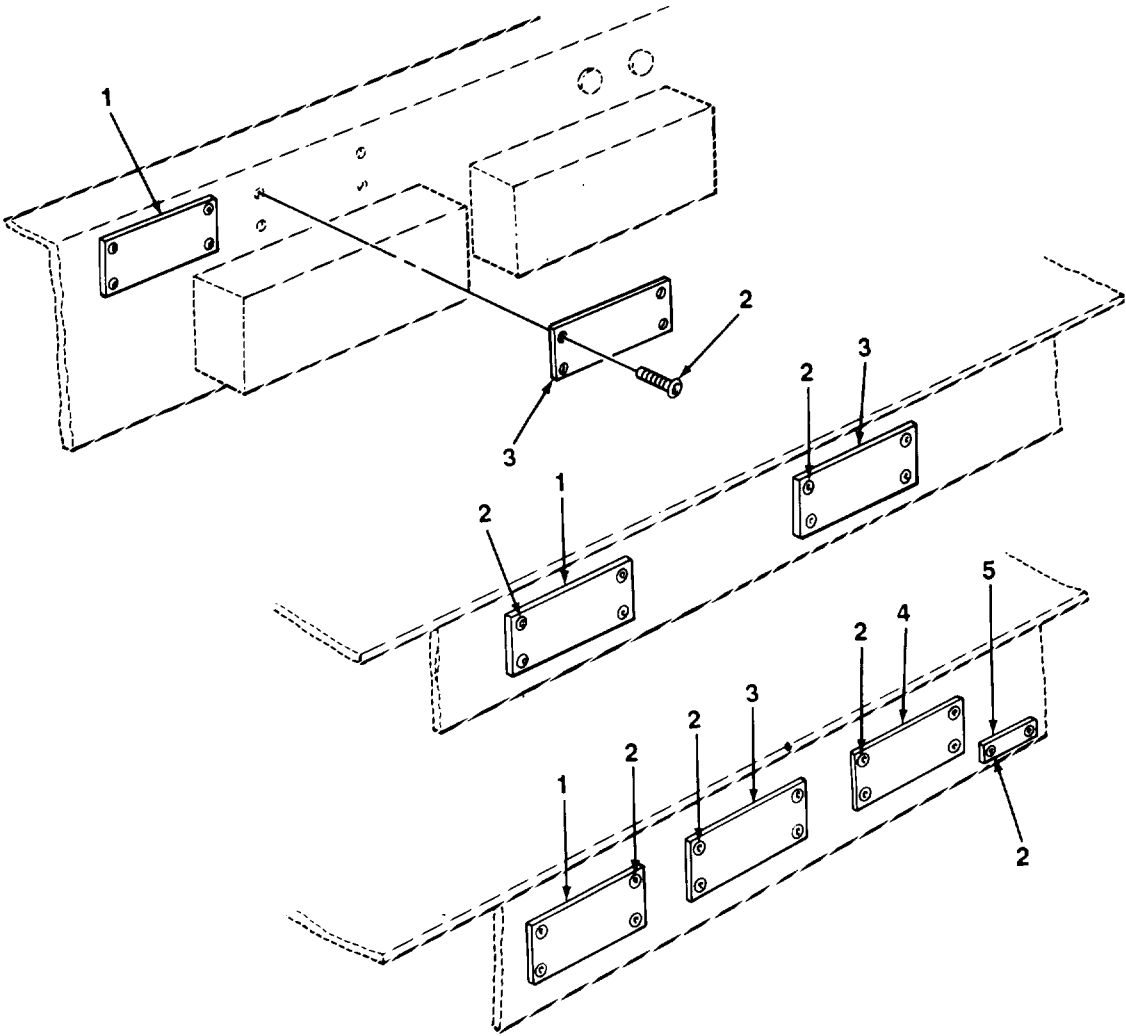
TA506137

FIGURE 49. REFLECTORS.

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 22 BODY, CHASSIS, AND HULL ACCESSORY ITEMS					
GROUP 2202 ACCESSORY ITEMS					
FIG. 49 REFLECTORS					
1	PAOZZ	13548	98007Y	REFLECTOR, INDICATING UOC:U42,U64,065	4
1	PAOZZ	13548	98007R	REFLECTOR, INDICATING UOC:U42,U64,065	4
2	PAOZZ	96906	MS35649-202	NUT, PLAIN, HEXAGON UOC:041	8
3	PAOZZ	96906	MS35338-43	WASHER, LOCK UOC:041	8
4	PAOZZ	81834	40093-3	REFLECTOR, INDICATING RED UOC:041	4
4	PAOZZ	81834	40092-3	REFLECTOR, INDICATING AMBER UOC:041	4
5	PAOZZ	96906	MS35206-264	SCREW, MACHINE UOC:041	8
6	PAOZZ	95879	301370	FITTING, LUBRICATION UOC:U42,U64,065	48
END OF FIGURE					



TA506138

FIGURE 50. DATA PLATES.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 2210 DATA PLATES AND INSTRUCTION HOLDERS					
FIG. 50 DATA PLATES					
1	XDOZZ	25575	FC10332	SERIAL AND DATA PLATE UOC:U42,U64,065	1
1	XDOZZ	98255	SW18457P	DATA PLATE UOC:041	1
2	PAOZZ	94222	38-104-09-13	RIVET UOC:U42,U64,065	4
2	PAOZZ	81349	M24243/6-A606H	RIVET,BLIND UOC:041	4
3	XDOZZ	25575	FB-8433	LUBRICATION CHART UOC:U42,U64,065	1
3	XDOZZ	98255	SW18458P	LUBRICATION CHART UOC:041	1
4	XDOZZ	25575	FB-10532	M113 TIE DOWN DATA PLATE UOC:065	1
4	XDOZZ	98255	SW18486P	M113 TIE DOWN DATA PLATE UOC:041	1
5	XDOZZ	98255	SW16653P	RUSTPROOFING PLATE UOC:041	1

END OF FIGURE

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
GROUP 94 REPAIR KITS					
GROUP 9401 REPAIR KITS					
FIG. KITS					
PAOZZ	94658	RK804-2A		TWISTLOC,CON,SP,KIT UOC:041 CONE (1) 28-3	V
PAOZZ	94658	RK804-2B		SPRING,HELICAL,COMP(1) 28-6 HANDLE,MANUAL CONTR KIT CONTAINS HANDLE,1/4 X 1-3/8 PIN, 1/4 X 2-3/4 PIN UOC:041	V
PAOZZ	94658	RK804-2C		PIN ROLL 1/4X1 3/8 (1) 28-11 TWISTLOCK,TRUNK KIT UOC:041	V
PAOZZ	94658	RK804-2D		SPRING,HELICAL,COMP(1) 28-6 TRUNK,LOCATING (1) 28-4 TWISTLOCKTRUNK,KIT UOC:041	V
PAOZZ	94658	RK804-2E		SPRING,HELICAL,COMP(1) 28-6 TRUNK,CENTERING (1) 28-5 KIT,COLLAR,TWISTLOC KIT CONTAINS COLLAR,1/4 X 1-3/8 PIN, 1/4 X 2-3/4 PIN UOC:041	V
PAOZZ	94658	RK804-1A		COLLAR (1) 28-9 PIN ROLL 1/2X2 (1) 28-8 PIN,GROOVE (1) 28-10 TWISTLOCK,CONE,KIT UOC:041 CONE,TWIST LOCK (1) 30-2 PIN ROLL (1) 30-4	V
END OF FIGURE					

SECTION II

TM9-2330-359-14&PC02

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 95 GENERAL USE STANDARDIZED PARTS	
				GROUP 9501 BULK MATERIEL	
				FIG. BULK	
1	PAOZZ	25575	FC-6872-4	LUMBER,SOFTWOOD,BOA	V
				END OF FIGURE	

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG	ITEM	STOCK NUMBER	FIG	ITEM
4730-00-007-2275	13	10	5340-00-124-5745	24	13
5315-00-013-7214	35	2	2530-00-137-9235	23	5
4730-00-014-4054	19	6	5940-00-143-4780	6	5
5310-00-045-3296	49	3		6	9
5306-00-050-0346	46	5		6	13
2640-00-050-1229	5	4	5940-00-143-4794	5	2
4730-00-050-4208	13	16		6	2
	16	2	5340-00-148-5022	24	3
5310-00-056-3395	37	7	5310-00-155-5085	24	11
	47	4	6240-00-155-8717	4	5
2610-00-060-9960	25	1	2640-00-158-5617	25	3
5305-00-068-0501	43	16	5935-00-167-7775	5	4
5305-00-068-0502	10	4		8	2
	43	4	5325-00-174-9325	12	1
	44	4	5365-00-175-5050	24	15
	45	4	2590-00-177-9980	38	10
5305-00-068-0511	17	5	5305-00-185-1468	13	12
	18	3	4730-00-193-0869	18	8
	47	2		20	6
5305-00-071-2074	26	8	4730-00-196-1505	17	8
5305-00-071-2078	27	9		18	20
	29	1	4730-00-196-1539	18	18
5305-00-071-2509	43	3	5365-00-204-5061	13	19
	43	15		15	9
	44	5	5310-00-225-6993	26	10
	45	5		27	2
6220-00-080-2351	2	1		29	8
5310-00-080-6004	18	4	5306-00-225-8496	24	1
	37	6	4730-00-244-9848	23	10
5310-00-081-4219	10	9	2640-00-255-9346	25	5
5310-00-087-4652	17	7	4730-00-257-2117	17	11
	31	2		18	19
	32	2	2610-00-260-7345	25	2
	33	2	5310-00-269-4040	39	8
	47	4		40	6
5310-00-088-1251	10	11		40	9
	27	5	5325-00-270-8889	23	8
	29	6	4730-00-277-9615	17	16
	43	6	4730-00-278-4290	19	7
	43	12	4730-00-289-2357	23	9
	43	20	5325-00-291-9366	12	5
	44	2	5330-00-297-7106	4	3
	45	2	3120-00-322-6430	15	5
5330-00-090-2128	23	8	2530-00-332-5729	14	9
5905-00-101-2769	11	1		15	4
3110-00-101-4186	24	8	6220-00-337-6471	4	1
5975-00-111-3208	12	2	2530-00-372-4100	16	1
5305-00-115-9526	4	7	5310-00-407-9566	10	9
	37	5		24	2
5307-00-119-4980	24	12	4730-00-409-7854	18	9

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG	ITEM	STOCK NUMBER	FIG	ITEM
2530-00-426-8342	16	1	3110-00-829-0575	24	5
5305-00-432-4173	23	4	5310-00-829-9981	10	10
4720-00-441-4926	17	12	5310-00-835-2037	19	3
5306-00-448-4218	37	9	5315-00-844-3662	31	1
5310-00-480-7606	37	8		32	1
2530-00-493-7145	19	1		33	1
4820-00-495-9680	18	2	5935-00-846-3883	10	3
4730-00-526-0284	18	16	5940-00-846-8104	6	7
4010-00-551-9921	23	6	5305-00-855-0963	2	5
5310-00-582-5965	10	12		3	4
	10	15	5305-00-855-0964	2	10
4730-00-591-3405	49	6		10	1
4730-00-595-0083	23	7		10	1
4730-00-613-5552	18	13	5320-00-882-8385	50	2
2530-00-622-6803	21	1	5905-00-883-0394	11	3
5310-00-637-9541	18	5	2530-00-886-1103	13	5
	46	4	6240-00-889-1799	1	6
	47	5		2	7
5930-00-655-1514	10	2	5310-00-889-2708	2	3
2530-00-691-5986	22	1	5306-00-891-5574	24	1
2530-00-706-6614	14	3		24	10
5305-00-724-7223	38	17	2540-00-897-5917	47	3
	40	4	5340-00-904-0008	43	24
5305-00-725-2317	31	4	5305-00-910-7333	43	31
	32	4	5310-00-917-6210	24	14
	33	4	2540-00-921-5069	47	3
	39	11	6240-00-924-7526	1	6
	40	10		2	7
5310-00-732-0558	18	6	5310-00-927-3877	11	6
	46	6		11	6
6220-00-752-6018	4	2	5305-00-928-9636	39	10
4820-00-752-9040	17	4	4010-00-930-5409	46	1
5365-00-753-4865	13	17	5310-00-934-9747	2	4
4010-00-757-9556	48	1	5310-00-934-9758	49	2
5310-00-761-6882	10	16	5305-00-942-2196	23	15
5310-00-763-8920	38	14	5940-00-949-5536	11	4
5935-00-773-1428	10	6	5305-00-954-4617	27	8
5315-00-775-3911	43	30		29	5
5310-00-809-4058	10	12	5340-00-978-3439	12	4
	43	25		17	17
5310-00-809-5997	27	1	5310-00-984-3806	10	10
	29	9	5305-00-984-5675	10	7
5310-00-809-5998	26	9	5305-00-984-6211	49	5
5310-00-820-6653	4	6	5305-00-984-6212	11	5
	38	13		11	5
5310-00-823-8803	39	6	5305-00-988-1724	10	4
	39	9	5305-00-988-1727	10	14
	40	5		43	26
5310-00-823-8804	27	7	5310-00-997-1888	10	11
	29	4	4720-01-003-6706	18	11

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG	ITEM	STOCK NUMBER	FIG	ITEM
4720-01-003-6706	18	15	5305-01-061-2973	39	14
5340-01-010-3842	41	7	5305-01-061-3206	26	6
	42	7	5360-01-061-3207	41	5
4720-01-014-4915	17	19		42	5
2530-01-016-2029	14	7	5310-01-061-3872	41	8
5310-01-019-6532	24	2		42	8
5320-01-020-0703	14	2	2590-01-061-4405	38	15
5330-01-023-5229	13	9	5306-01-061-5872	39	42
5330-01-024-2294	13	7	6220-01-061-7513	1	9
2530-01-032-0428	20	1	9320-01-061-9336	39	18
4935-01-032-9586	E1B0	500	5365-01-062-1009	14	4
6220-01-047-4059	1	5	5310-01-062-1451	19	5
	3	2	5310-01-062-1531	14	5
2540-01-047-5771	47	1	2510-01-062-1920	39	30
5330-01-049-4093	24	9	4730-01-062-2570	17	2
2530-01-049-8623	24	7	5305-01-062-3155	23	3
2530-01-052-4018	39	16	5365-01-062-3643	31	3
2590-01-060-7119	43	14		32	3
2510-01-060-7120	43	32		33	3
5340-01-060-8993	19	2		34	4
5340-01-060-9250	12	7	4730-01-062-5762	17	10
5995-01-060-9640	6	1	2530-01-063-0087	17	3
2510-01-060-9683	38	12	2510-01-063-0262	43	10
2530-01-060-9898	24	16	2510-01-063-0264	44	1
5995-01-061-0273	9	1	2530-01-063-1977	19	1
2510-01-061-0429	39	31	2510-01-063-3702	43	7
5995-01-061-0492	8	1	5310-01-063-9764	41	3
5995-01-061-0493	5	1		42	3
5310-01-061-0688	39	12	5365-01-064-2204	41	2
5310-01-061-0689	39	28		42	2
5310-01-061-0690	39	19	3040-01-065-2021	20	2
5365-01-061-0714	39	25	2590-01-065-7220	38	11
5306-01-061-0731	39	33	2510-01-067-2630	BULK	1
5305-01-061-0734	39	21	2530-01-067-3771	24	6
5305-01-061-0735	39	23	2510-01-067-5397	43	1
5305-01-061-0736	39	24	5325-01-067-5890	1	1
5310-01-061-1307	39	13	5325-01-068-3428	1	10
5310-01-061-1308	39	40		12	3
5310-01-061-1309	39	36	5305-01-068-5500	39	35
5310-01-061-1310	39	3	9905-01-069-7282	49	1
5310-01-061-1311	39	7	9905-01-070-0471	49	1
5310-01-061-1312	39	20	6220-01-075-3506	1	3
5305-01-061-1416	39	4	5340-01-075-6924	29	7
5310-01-061-1455	39	43	5310-01-076-4959	19	4
5310-01-061-1456	39	41	5365-01-078-5901	41	1
5340-01-061-2869	39	44		42	1
5340-01-061-2870	39	37	5310-01-083-9507	13	13
5340-01-061-2951	39	39	2530-01-084-6975	20	2
	39	46	6220-01-085-3391	1	2
5306-01-061-2963	39	2		3	1

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG	ITEM	STOCK NUMBER	FIG	ITEM
5935-01-089-9164	9	2	6220-01-121-4327	1	5
7690-01-094-7873	11	7		2	6
2510-01-094-7910	43	13	5310-01-133-5373	13	18
6220-01-095-0009	2	6	4820-01-137-9236	18	7
6220-01-095-0010	2	13	5935-01-141-0877	10	8
6220-01-095-0011	2	1	4010-01-142-0450	43	22
	2	13	5940-01-142-1303	10	13
6220-01-095-0019	1	7		11	2
	2	8	4010-01-144-1734	43	23
6220-01-095-0117	2	2		46	7
2530-01-095-3561	20	3	5340-01-145-1679	27	4
2510-01-096-9346	43	28	5935-01-168-3342	23	2
2510-01-096-9347	43	19	5310-01-174-0380	40	40
2510-01-096-9348	43	27	5310-01-174-0431	38	4
2510-01-096-9349	43	19	5310-01-174-0433	40	39
2510-01-096-9350	43	27	2530-01-174-0464	40	35
4730-01-097-4330	23	13	6150-01-174-0487	6	4
2540-01-098-1782	47	1	5310-01-175-0484	38	8
2510-01-098-3995	43	9	5340-01-175-0564	38	7
	43	18	5305-01-175-0568	38	3
	44	7	3040-01-175-0585	38	5
	45	7	3940-01-176-4658	34	2
5310-01-098-7245	40	26	2590-01-176-4787	38	1
5310-01-098-7246	40	31	2510-01-176-9374	38	16
5310-01-098-7827	40	3	2590-01-176-9376	30	2
5310-01-099-6539	40	21	2530-01-176-9399	39	17
5330-01-101-4860	24	4	2530-01-176-9400	39	1
2530-01-101-5429	20	1	2530-01-176-9401	39	15
5365-01-102-1982	1	8	2530-01-176-9402	39	34
	2	9	2530-01-176-9403	39	5
5905-01-102-4021	11	3	2530-01-176-9404	39	29
2510-01-104-8954	43	5	2530-01-177-3047	39	27
9905-01-105-8610	49	4	2530-01-177-3048	39	22
4030-01-106-5960	46	2	2510-01-177-4452	44	3
9905-01-110-2079	49	4	2510-01-177-4453	45	3
5340-01-112-6396	26	7	2530-01-178-7227	40	36
3120-01-113-3627	18	10	2530-01-178-7228	40	36
4010-01-114-1333	43	21	2510-01-178-7229	26	11
5306-01-116-3535	43	2	2590-01-178-7238	28	3
	43	17	5340-01-178-7239	28	4
	44	6	5340-01-178-7240	28	5
	45	6	2590-01-178-7241	30	5
5305-01-116-6460	1	4	5315-01-178-7307	30	7
5310-01-117-2404	13	2	5310-01-178-7336	28	7
5310-01-117-6260	19	3	5360-01-178-7381	28	6
5305-01-118-2335	17	18	5310-01-179-4113	13	4
5310-01-119-8200	43	8	2530-01-179-4114	13	14
	43	11	2530-01-179-4115	13	20
	44	8	2530-01-179-4116	13	20
	45	8	5320-01-179-4118	15	3

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG	ITEM	STOCK NUMBER	FIG	ITEM
5360-01-179-4119	15	10	4710-01-243-3391	40	32
3120-01-179-4120	15	7	2510-01-243-4940	40	27
5315-01-179-4121	30	6	5310-01-244-7572	40	25
5340-01-179-7521	19	2	5305-01-244-7970	40	14
5315-01-179-7533	15	8	5340-01-245-3947	40	19
5310-01-179-7598	19	5	5340-01-245-3948	40	23
	20	4	5340-01-245-3949	40	15
2530-01-179-7640	15	1	5340-01-250-0785	40	17
2590-01-179-9074	23	1	5340-01-256-0043	KITS	
2510-01-183-2738	45	9	5340-01-256-0044	KITS	
5940-01-184-4835	11	2	5340-01-256-0045	KITS	
4720-01-185-0478	18	17	2530-01-257-6443	14	1
5305-01-186-5859	13	3	2590-01-260-0219	KITS	
5340-01-188-7395	41	4	5365-01-289-7520	13	11
	42	4	6220-01-301-5411	2	11
2530-01-189-9753	13	8	5360-01-302-9882	17	9
2530-01-189-9754	13	15	2540-01-306-1387	34	1
5315-01-191-3383	35	3	2510-01-312-4715	45	1
5330-01-191-3457	40	16	5365-01-316-3300	39	26
2510-01-191-6644	40	28		40	22
2530-01-192-3442	18	1	5315-01-316-7547	38	9
2590-01-192-3445	38	6	2530-01-316-9167	15	2
5305-01-192-5742	40	11	5340-01-318-6775	35	4
5310-01-192-9307	40	13			
5305-01-193-2358	26	6			
2590-01-193-4089	38	2			
5310-01-194-2772	19	4			
	20	5			
5306-01-194-4972	40	1			
5310-01-194-5006	40	30			
5310-01-194-9211	40	29			
5305-01-195-5042	40	20			
3120-01-195-5154	40	41			
5310-01-195-7956	40	12			
5305-01-197-1210	40	37			
5306-01-197-1491	40	33			
5305-01-198-4649	40	18			
2590-01-202-0956	30	1			
5325-01-202-0957	28	1			
5340-01-213-1251	KITS				
4720-01-213-1282	18	14			
5340-01-213-1308	28	12			
5340-01-213-1309	KITS				
4010-01-214-4073	37	3			
2590-01-217-5734	37	1			
4010-01-219-6131	37	4			
5315-01-220-6238	14	6			
5360-01-220-9373	14	10			
5310-01-224-6835	13	6			
5360-01-241-6961	14	8			

SECTION IV

TM9-2330-359-14&PC02
CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX		FIG	ITEM
		STOCK	NUMBER		
78500	A 1225M1053	2530-01-189-9753		13	8
08862	A-7022	2530-00-426-8342		16	1
25575	AB36-032	2510-01-067-5397		43	1
25575	AB36-032-2	2510-01-063-3702		43	7
25575	AB36-033	2510-01-063-0262		43	10
25575	AB36-034-2	2510-01-063-0264		44	1
25575	AC-8-119-20	5305-01-118-2335		17	18
5V961	AC8-119-14			7	5
				8	3
				17	1
25575	AC8-119-3	4730-00-196-1505		17	8
80244	AN415-5			48	2
78500	A1199D2526	2530-01-179-4114		13	14
16662	A71890	2530-00-691-5986		22	1
19422	BM11352-77	4730-00-193-0869		18	8
				20	6
80204	B1821BH025C150N	5305-00-071-2509		43	3
				43	15
				44	5
				45	5
80204	B1821BH038C125N	5305-00-068-0511		17	5
				18	3
				47	2
80204	B1821BH038C150N	5305-00-725-2317		31	4
				32	4
				33	4
				39	11
				40	10
80204	B1821BH050C275N	5305-00-071-2074		26	8
80204	B1821BH050C375N	5305-00-071-2078		27	9
				29	1
80204	B1821BH063C225N	5305-00-724-7223		38	17
				40	4
25575	B231			7	2
64133	C-10075			2	12
99539	CBM21389	5310-00-582-5965		10	15
25575	C228-10	5940-00-143-4794		6	2
15564	C30-2	2530-00-493-7145		19	1
30327	C608	4720-01-003-6706		18	11
				18	15
78500	D45-3722N-66	2530-01-179-7640		15	1
25575	FA-7860	5365-01-062-3643		34	4
59306	FA10361	2540-01-306-1387		34	1
25575	FA4798	2540-01-047-5771		47	1
25575	FA6778			27	6
				29	3
25575	FA6821			23	14
25575	FA7860	5365-01-062-3643		31	3
				32	3
				33	3
25575	FB-10532			50	4

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		STOCK	NUMBER		
25575	FB-8433			50	3
25575	FB10325-1	3940-01-176-4658		34	2
25575	FB5230-4	5995-01-060-9640		6	1
25575	FB6820	5935-01-168-3342		23	2
25575	FB7552	2510-01-060-7120		43	32
25575	FB7883	5995-01-061-0493		5	1
25575	FB7884			7	1
25575	FB7885	5995-01-061-0492		8	1
25575	FC-6872-4	2510-01-067-2630		BULK	1
25575	FC-6872-4-1			26	2
25575	FC-6872-4-2			26	3
25575	FC-6872-4-3			26	4
25575	FC-6872-4-4			26	5
25575	FC10332			50	1
25575	FC6792-9	5305-01-061-3206		26	6
94658	F804-1	2590-01-202-0956		30	1
94658	F804-2	5325-01-202-0957		28	1
25575	GA16851-20	2530-01-049-8623		24	7
59306	GA16851-24	2590-01-217-5734		37	1
81348	GP3STYLXTYBBCLR/ T/10.00-20/G/TBH	2610-00-060-9960		25	1
81348	GROUP2/10.00-20 /TR78A/ONCENTER	2610-00-260-7345		25	2
84290	G1042	2530-01-063-0087		17	3
91637	HL50-02Z-3R6J	5905-01-102-4021		11	3
98349	L-10-MNS-500-X-9	5310-01-076-4959		19	4
99411	LG0070-02	5315-01-316-7547		38	9
99411	LG0083-05	5340-01-175-0564		38	7
99411	LG0094-33	3040-01-175-0585		38	5
99411	LG1511-01	2590-00-177-9980		38	10
99411	LG5M29-91	2590-01-193-4089		38	2
99411	LG5M29-92	2590-01-192-3445		38	6
44655	L50J5R0	5905-00-101-2769		11	1
96906	MS15003-1	4730-00-050-4208		13	16
				16	2
96906	MS15571-1251			4	4
96906	MS16562-62	5315-00-844-3662		31	1
				32	1
				33	1
96906	MS18154-58	5305-00-115-9526		4	7
				37	5
96906	MS18154-60	5305-00-942-2196		23	15
96906	MS19081-113	3110-00-829-0575		24	5
96906	MS19081-132	3110-00-101-4186		24	8
96906	MS24629-26	5305-00-855-0963		2	5
				3	4
96906	MS24629-48	5305-00-855-0964		2	10
				10	1
				10	1
96906	MS24665-359	5315-00-013-7214		35	2
96906	MS25036-108	5940-00-143-4780		6	5

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CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG	ITEM
96906	MS25036-108	5940-00-143-4780	6	9
			6	13
96906	MS25036-112	5940-00-143-4794	5	2
96906	MS27144-1	5935-00-167-7775	5	4
			8	2
96906	MS27183-10	5310-00-809-4058	10	12
			43	25
96906	MS27183-12	5310-00-081-4219	10	9
96906	MS27183-14	5310-00-080-6004	18	4
			37	6
96906	MS27183-17	5310-00-809-5997	27	1
			29	9
96906	MS27183-18	5310-00-809-5998	26	9
96906	MS27183-21	5310-00-823-8803	39	6
			39	9
			40	5
			40	8
96906	MS27183-9	5310-00-823-8804	27	7
			29	4
96906	MS3367-5-9	5975-00-111-3208	12	2
96906	MS35058-22	5930-00-655-1514	10	2
96906	MS35206-264	5305-00-984-6211	49	5
96906	MS35206-265	5305-00-984-6212	11	5
			11	5
96906	MS35206-280	5305-00-988-1724	10	4
96906	MS35206-283	5305-00-988-1727	10	14
			43	26
96906	MS35206-295	5305-00-984-5675	10	7
96906	MS35218-73	5305-00-954-4617	27	8
			29	5
96906	MS35338-43	5310-00-045-3296	49	3
96906	MS35338-44	5310-00-582-5965	10	12
96906	MS35338-45	5310-00-407-9566	10	9
			24	2
96906	MS35338-46	5310-00-637-9541	18	5
			46	4
			47	5
96906	MS35338-50	5310-00-820-6653	38	13
96906	MS35489-107	5325-00-174-9325	12	1
96906	MS35489-11	5325-00-291-9366	12	5
96906	MS35489-81	5325-00-270-8889	23	8
96906	MS35649-202	5310-00-934-9758	49	2
96906	MS35649-2252	5310-00-997-1888	10	11
96906	MS35649-2312	5310-00-829-9981	10	10
96906	MS35649-2382	5310-00-056-3395	37	7
			47	4
96906	MS35649-262	5310-00-934-9747	2	4
96906	MS35746-1	4730-00-595-0083	23	7
96906	MS35748-1	5330-00-090-2128	23	8
96906	MS35782-4	4820-00-752-9040	17	4
96906	MS39231-2	4730-00-278-4290	19	7

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96906	MS45904-54	5310-00-889-2708	2	3
96906	MS51330-1	6220-00-337-6471	4	1
96906	MS51331-6	2540-00-921-5069	47	3
96906	MS51861-15	5305-00-432-4173	23	4
96906	MS51922-1	5310-00-088-1251	10	11
			27	5
			29	6
			43	6
			43	12
			43	20
			44	2
			45	2
96906	MS51922-14	5310-00-927-3877	11	6
			11	6
96906	MS51922-17	5310-00-087-4652	17	7
			31	2
			32	2
			33	2
			47	4
96906	MS51922-33	5310-00-225-6993	26	10
			27	2
			29	8
96906	MS51922-49	5310-00-269-4040	39	8
			40	6
			40	9
96906	MS51922-9	5310-00-984-3806	10	10
96906	MS51937-3	5306-00-050-0346	46	5
96906	MS51953-101	4730-00-196-1505	18	20
96906	MS51953-36	4730-00-196-1539	18	18
96906	MS51967-2	5310-00-761-6882	10	16
96906	MS51967-20	5310-00-763-8920	38	14
96906	MS51967-8	5310-00-732-0558	18	6
			46	6
96906	MS75021-1	5935-00-846-3883	10	3
96906	MS90725-31	5306-00-225-8496	24	1
96906	MS90725-5	5305-00-068-0501	43	16
96906	MS90725-6	5305-00-068-0502	10	4
			43	4
			44	4
			45	4
62707	M10HG108	5330-01-101-4860	24	4
62707	M10HM160	5320-01-020-0703	14	2
62707	M10HN135	5310-01-062-1531	14	5
62707	M10HP102	5315-01-220-6238	14	6
62707	M16WJ100	5360-01-241-6961	14	8
62707	M16WJ103	5360-01-220-9373	14	10
62707	M16WN101X	2530-01-257-6443	14	1
81349	M24243/6-A606H	5320-00-882-8385	50	2
8S867	M871PNL1	2510-01-312-4715	45	1
98343	N-10492-E		18	12
78500	NL 26 C	2530-01-189-9754	13	15

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		STOCK	NUMBER		
06721	N4301AA	4820-01-137-9236		18	7
25575	PB8-0140-1	2590-01-179-9074		23	1
25575	PC8-0139-14	5305-01-062-3155		23	3
25575	PD18-0085-1			27	3
25575	PD18-0085-2			29	2
25575	PD6-0223			26	1
94658	PH2964-1	2590-01-178-7241		30	5
94658	PH2965-1	2590-01-178-7238		28	3
94658	PH2966-1	5340-01-178-7239		28	4
94658	PH2967-1	5340-01-178-7240		28	5
94658	PH2968-2			30	8
94658	PH2969-1			28	2
94658	PH2970-1	2590-01-176-9376		30	2
94658	PH2971-1			30	3
94658	PH2986-1	5360-01-178-7381		28	6
94658	PH2987-1	5310-01-178-7336		28	7
94658	PH2993-1			28	9
99411	PP0012-22	5310-01-175-0484		38	8
99411	PP0016-03	5310-01-174-0431		38	4
99411	PP0050-36	5305-01-175-0568		38	3
25575	P4960-1	5340-01-075-6924		29	7
94658	RK804-1A	2590-01-260-0219		KITS	
94658	RK804-1B	5340-01-213-1308		28	12
94658	RK804-2A	5340-01-256-0043		KITS	
94658	RK804-2B	5340-01-213-1309		KITS	
94658	RK804-2C	5340-01-256-0045		KITS	
94658	RK804-2D	5340-01-256-0044		KITS	
94658	RK804-2E	5340-01-213-1251		KITS	
81349	RW35V3R9	5905-00-883-0394		11	3
78500	S 2610 P	5305-00-185-1468		13	12
25575	SAEJ555A12AWG12F			6	3
	T				
25575	SAEJ555A12AWG34F			7	3
	T				
25575	SAEJ555A12AWG88I			8	5
	N				
25575	SAEJ555A16AWG10F			7	6
	T				
25575	SAEJ555A16AWG147			5	3
	IN				
25575	SAEJ555A16AWG9FT			8	4
25575	SKC22576-11	5305-00-910-7333		43	31
25575	SKC22576-18			46	3
98255	SW10998P1-18	4010-01-142-0450		43	22
98255	SW11935P-1	4010-01-144-1734		43	23
				46	7
98255	SW12948-4	3120-01-113-3627		18	10
98255	SW14292P-8	5940-01-184-4835		11	2
98255	SW14342P	5305-01-193-2358		26	6
98255	SW14417M	2540-01-098-1782		47	1
98255	SW14490A			6	12

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		STOCK	NUMBER		
98255	SW14491A			6	16
98255	SW14499P-8560			6	6
98255	SW14519P-1			6	11
				6	15
				6	17
98255	SW14657M	2510-01-098-3995		43	9
				43	18
				44	7
				45	7
98255	SW14658M	2510-01-096-9346		43	28
98255	SW14659M1	2510-01-096-9348		43	27
98255	SW14659M2	2510-01-096-9350		43	27
98255	SW14671P			44	9
98255	SW14671P-1	2510-01-183-2738		45	9
98255	SW14671P-3	2510-01-094-7910		43	13
98255	SW14684A			23	2
98255	SW14692M	2510-01-176-9374		38	16
98255	SW14696P	4030-01-106-5960		46	2
PAOZZ	SW14699A			46	1
98255	SW14865P			11	1
98255	SW14875P			6	10
				6	14
				6	18
98255	SW14880M-1	2510-01-177-4453		45	3
98255	SW14880M-4	2510-01-177-4452		44	3
98255	SW14880M2	2510-01-104-8954		43	5
98255	SW14880M3	2590-01-060-7119		43	14
98255	SW15056P	5310-01-119-8200		43	8
				43	11
				44	8
				45	8
98255	SW15192P	7690-01-094-7873		11	7
98255	SW15254A1	2510-01-096-9347		43	19
98255	SW15254A2	2510-01-096-9349		43	19
98255	SW15266A	4010-01-114-1333		43	21
98255	SW16653P			50	5
98255	SW18414P-5	5315-01-179-4121		30	6
98255	SW18414P-6	5315-01-178-7307		30	7
98255	SW18414P-7			30	4
98255	SW18415P-6			28	10
98255	SW18415P-7			28	11
98255	SW18415P-8			28	8
98255	SW18416K	2510-01-178-7229		26	11
98255	SW18457P			50	1
98255	SW18458P			50	3
98255	SW18486P			50	4
98255	SW18515A			37	1
98255	SW18517A	6150-01-174-0487		6	4
98255	SW18518A			6	8
98255	SW18532A			10	5
98255	SW18533A			23	14

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CAGEC	PART NUMBER	PART NUMBER INDEX		FIG	ITEM
		STOCK	NUMBER		
98255	SW18538M	5315-01-191-3383		35	3
98255	SW18560P			37	2
98255	SW18712P	4010-01-219-6131		37	4
98255	SW18713P	4010-01-214-4073		37	3
83473	TB-20	5340-01-112-6396		26	7
00000	TBD			34	3
				36	1
78500	TK4670P2000			13	1
25575	VC15-0038-14	5305-01-116-6460		1	4
81348	W-L-00111/60	6240-00-155-8717		4	5
81348	WW-P-471BDQBCFC	4730-00-014-4054		19	6
14371	01-07791-014	2530-01-067-3771		24	6
13548	04058B			9	3
72540	08-005716	5310-00-917-6210		24	14
72540	08-008411	5307-00-119-4980		24	12
72540	08-201-932	5310-00-155-5085		24	11
72540	08-201500	5306-00-891-5574		24	1
				24	10
72540	08-201943	5310-01-019-6532		24	2
72540	09-005205	5340-00-148-5022		24	3
72540	09-005669	5365-00-175-5050		24	15
72540	09-612317	5340-00-124-5745		24	13
17875	100AA	2640-00-050-1229		25	4
13548	10004R	6220-01-095-0011		2	1
				2	13
13548	10004Y	6220-00-080-2351		2	1
13548	10202Y	6220-01-095-0010		2	13
06721	10601	5360-01-302-9882		17	9
13548	10720	6220-01-095-0117		2	2
13548	10744R	6220-01-301-5411		2	11
19207	10882200	2540-00-897-5917		47	3
19207	10938443-2	5310-00-480-7606		37	8
50153	11M011	2530-01-095-3561		20	3
50153	11M012	2530-01-084-6975		20	2
50153	11M018-1	5340-01-060-8993		19	2
50153	11M050	5310-00-835-2037		19	3
50153	11M066	5310-01-062-1451		19	5
92967	11357-00	5365-01-316-3300		39	26
				40	22
92967	11432-00			40	24
92967	11433-00	5340-01-250-0785		40	17
92967	11434-00	5340-01-245-3948		40	23
92967	11435-00	5305-01-198-4649		40	18
92967	11436-00	2510-01-243-4940		40	27
92967	11437-00			40	42
92967	11438-00	2510-01-191-6644		40	28
92967	11439-00	5305-01-195-5042		40	20
92967	11441-00	5340-01-245-3947		40	19
92967	11443-00	5305-01-244-7970		40	14
92967	11444-00	5340-01-245-3949		40	15
92967	11445-00	5330-01-191-3457		40	16

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		STOCK	NUMBER		
92967	11446-00	4710-01-243-3391		40	32
92967	11447-00			40	34
92967	11448-00	5306-01-197-1491		40	33
92967	11449-00	5310-01-194-5006		40	30
92967	11450-01	2530-01-178-7227		40	36
92967	11450-02	2530-01-178-7228		40	36
92967	11451-00	2530-01-174-0464		40	35
92967	11452-00	5310-01-244-7572		40	25
92967	11453-00			40	7
92967	11456-00	5305-01-192-5742		40	11
92967	11477-00	3120-01-195-5154		40	41
92967	11478-00			40	38
92967	11478-02			40	38
92967	11497-00			40	2
92967	11514-00	5310-01-192-9307		40	13
06721	115411			17	15
08108	1156	6240-00-924-7526		1	6
				2	7
08806	1157	6240-00-889-1799		1	6
				2	7
19207	11593182	5306-00-448-4218		37	9
19207	11625075	2590-01-065-7220		38	11
19207	11625075-1	2510-01-060-9683		38	12
19207	11662389-2	2640-00-158-5617		25	3
40670	11682888	4730-00-244-9848		23	10
78500	1199-K-3859	5305-01-186-5859		13	3
78500	1199J1908	4730-00-007-2275		13	10
62173	1200	2530-01-192-3442		18	1
78500	1205U1451	5330-01-023-5229		13	9
78500	1205V1452	5330-01-024-2294		13	7
78500	1225N976	3120-01-179-4120		15	7
78500	1227B756	5310-01-117-2404		13	2
78500	1227C549	2530-00-886-1103		13	5
78500	1229-C-1017	5310-01-083-9507		13	13
78500	1229-J-868	5365-00-753-4865		13	17
78500	1229A1119	5365-01-289-7520		13	11
78500	1229B1848	5310-01-133-5373		13	18
78500	1229B1849			15	6
78500	1229W2545	5310-01-179-4113		13	4
78500	1229X1116	5365-00-204-5061		13	19
				15	9
78500	1229X3118	5310-01-224-6835		13	6
72582	124925	5310-01-117-6260		19	3
78500	1259J 218	5315-01-179-7533		15	8
04627	12878	4820-00-495-9680		18	2
79146	140070			23	11
24617	144083	4730-00-257-2117		17	11
				18	19
21450	144151	4730-00-613-5552		18	13
79470	1469X6X6			23	12
98255	14804A			43	29

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CAGEC	PART NUMBER	PART NUMBER INDEX		FIG	ITEM
		STOCK	NUMBER		
11815	15055P	5306-01-116-3535		43	2
				43	17
				44	6
				45	6
98343	1507	4730-01-062-5762		17	10
98343	1511-3	5340-00-978-3439		12	4
				17	17
98343	1511-6	5340-01-060-9250		12	7
19220	15592	5365-01-078-5901		41	1
				42	1
19220	15595	5360-01-061-3207		41	5
				42	5
50153	161366	2530-01-063-1977		19	1
50153	162429	2530-01-101-5429		20	1
78500	1718Y103	2530-00-332-5729		14	9
				15	4
78500	1779R18	3120-00-322-6430		15	5
4A198	18488P			35	1
78500	2000-F-1228	2530-01-316-9167		15	2
56697	207100	2530-01-016-2029		14	7
06853	212930	4010-00-551-9921		23	6
06853	217690	4730-00-526-0284		18	16
81348	22-P-471BD1QBDCB			20	6
78500	2210T4180	2530-01-179-4115		13	20
78500	2210U4181	2530-01-179-4116		13	20
10988	222-1851	4730-00-409-7854		18	9
93061	2225P-4	4730-00-277-9615		17	16
80874	225-750	5340-00-904-0008		43	24
78500	2258Z416	5360-01-179-4119		15	10
12603	23E10	5310-00-820-6653		4	6
06853	246115	4720-01-014-4915		17	19
73195	262FL2-1	2530-01-060-9898		24	16
06853	281860	2530-00-622-6803		21	1
12603	29F3	4730-00-289-2357		23	9
95879	301370	4730-00-591-3405		49	6
13548	30200C	6220-01-061-7513		1	9
13548	30200R	6220-01-085-3391		1	2
				3	1
13548	30200Y			1	11
				3	3
13548	30401	4935-01-032-9586		E1B0	500
13548	30701	5325-01-068-3428		1	10
				12	3
13548	30722	6220-01-075-3506		1	3
98343	31-22B-250	4720-01-213-1282		18	14
98343	31-22B-550	4720-01-185-0478		18	17
98343	31-22B360	4720-00-441-4926		17	12
15564	3130051	2530-01-032-0428		20	1
62707	31624	5365-01-062-1009		14	4
92967	32-00	5310-01-174-0433		40	39
00779	324015	5940-00-846-8104		6	7

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CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG	ITEM
92967	33-01	5310-01-174-0380	40	40
92967	34-04	5310-01-194-9211	40	29
92967	35-00	5310-01-195-7956	40	12
92967	37-03	5310-01-099-6539	40	21
94222	38-104-09-13		50	2
78500	388S	5320-01-179-4118	15	3
13548	40MGR		12	6
81834	40092-3	9905-01-110-2079	49	4
81834	40093-3	9905-01-105-8610	49	4
80201	40136	5330-01-049-4093	24	9
13548	40202R	6220-01-047-4059	1	5
			3	2
13548	40700	5325-01-067-5890	1	1
83930	41406-1	2640-00-255-9346	25	5
80244	42-C-16570	4010-00-757-9556	48	1
99411	475095	2590-01-176-4787	38	1
19220	5X252	5310-01-063-9764	41	3
			42	3
13548	5009		9	4
32461	5033		16	2
98343	51410107	4730-01-097-4330	23	13
82942	53171		17	6
25575	541217A1		7	4
13548	6006		9	5
13548	6013	5935-01-089-9164	9	2
26405	603-JJ-03	5940-00-949-5536	11	4
51038	68NTA6-4	4730-01-062-2570	17	2
80837	6880-86-1	2590-01-061-4405	38	15
92967	718-00	5305-01-197-1210	40	37
19207	7320658	5330-00-297-7106	4	3
19207	7411021	2530-00-137-9235	23	5
19207	7526018	6220-00-752-6018	4	2
19207	7731428	5935-00-773-1428	10	6
19207	7753911	5315-00-775-3911	43	30
65059	78006-1RH-SC	5340-01-145-1679	27	4
92967	7816-56	5306-01-194-4972	40	1
98343	782	5935-01-141-0877	10	8
58429	8FS66-28M		17	13
58429	8FS66-54		17	14
19220	8000	5340-01-010-3842	41	7
			42	7
19220	8000-1		41	6
			42	6
19220	8000-2	5340-01-188-7395	41	4
			42	4
19220	8000-4	5365-01-064-2204	41	2
			42	2
19220	8000-51		41	9
			42	9
19220	8000PIN	5310-01-061-3872	41	8
			42	8

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CAGEC	PART NUMBER	PART NUMBER INDEX		FIG	ITEM
		STOCK	NUMBER		
13548	80301R	6220-01-095-0009		2	6
13548	80302R	6220-01-121-4327		1	5
				2	6
15564	8083011	5310-01-179-7598		19	5
				20	4
15564	8130008	5310-01-194-2772		19	4
				20	5
92967	817-00	5310-01-098-7245		40	26
15564	8292001	5340-01-179-7521		19	2
19207	8336779	2530-00-372-4100		16	1
92967	837-00	5310-01-098-7246		40	31
92967	841-00	5310-01-098-7827		40	3
19207	8739382	4010-00-930-5409		46	1
30119	89-212	5940-01-142-1303		10	13
				11	2
27182	90M FLUSH 45DEG	5340-01-318-6775		35	4
98171	900-10-009	2530-01-177-3047		39	27
98171	900-41-169	5306-01-061-2963		39	2
15564	9006001	3040-01-065-2021		20	2
98171	910-01-066	2530-01-176-9403		39	5
98171	910-01-075	2530-01-176-9404		39	29
98171	910-01-088	2530-01-176-9402		39	34
98171	910-01-089	2530-01-176-9399		39	17
98171	910-08-007	5340-01-061-2951		39	39
				39	46
98171	910-10-060	2530-01-176-9401		39	15
98171	910-10-108	2510-01-061-0429		39	31
98171	910-15-015	2530-01-177-3048		39	22
98171	910-18-005	2530-01-176-9400		39	1
98171	910-28-051	2530-01-052-4018		39	16
98171	910-28-089	9320-01-061-9336		39	18
98171	910-36-078	5365-01-061-0714		39	25
98171	910-38-290			39	32
98171	910-44-003			39	45
98171	910-44-004			39	38
98171	915-06-003	5306-01-061-5872		39	42
98171	915-44-002	5340-01-061-2869		39	44
98171	915-44-003	5340-01-061-2870		39	37
98171	915-57-172	2510-01-062-1920		39	30
98171	930-02-921	5305-01-068-5500		39	35
98171	930-03-345	5305-01-061-1416		39	4
98171	930-03-633	5305-00-928-9636		39	10
98171	930-03-657	5305-01-061-0736		39	24
98171	930-03-935	5305-01-061-2973		39	14
98171	930-04-239	5305-01-061-0734		39	21
98171	93003575	5305-01-061-0735		39	23
98171	934-00-036	5310-01-061-1455		39	43
98171	934-00-284	5310-01-061-1456		39	41
98171	934-00-480	5310-01-061-1308		39	40
98171	934-00-488	5310-01-061-1311		39	7
98171	934-00-492	5310-01-061-1310		39	3

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CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG	ITEM
98171	934-00-498	5310-01-061-1312	39	20
98171	934-00-500	5310-01-061-1307	39	13
98171	934-00-569	5310-01-061-1309	39	36
98171	936-00-156	5310-01-061-0689	39	28
98171	936-00-162	5310-01-061-0690	39	19
98171	936-00-186	5310-01-061-0688	39	12
98171	939-00-009	5306-01-061-0731	39	33
89346	93931R96	2530-00-706-6614	14	3
13548	96900	5995-01-061-0273	9	1
13548	97904	5365-01-102-1982	1	8
			2	9
13548	98007R	9905-01-069-7282	49	1
13548	98007Y	9905-01-070-0471	49	1
13548	99007R	6220-01-095-0019	1	7
			2	8

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		FIGURE AND ITEM NUMBER		INDEX	
FIG	ITEM	STOCK NUMBER	CAGEC	PART NUMBER	
BULK	1	2510-01-067-2630	25575	FC-6872-4	
ELB0	500	4935-01-032-9586	13548	30401	
KITS		2590-01-260-0219	94658	RK804-1A	
KITS		5340-01-213-1251	94658	RK804-2E	
KITS		5340-01-213-1309	94658	RK804-2B	
KITS		5340-01-256-0043	94658	RK804-2A	
KITS		5340-01-256-0044	94658	RK804-2D	
KITS		5340-01-256-0045	94658	RK804-2C	
1	1	5325-01-067-5890	13548	40700	
1	2	6220-01-085-3391	13548	30200R	
1	3	6220-01-075-3506	13548	30722	
1	4	5305-01-116-6460	25575	VC15-0038-14	
1	5	6220-01-047-4059	13548	40202R	
1	5	6220-01-121-4327	13548	80302R	
1	6	6240-00-889-1799	08806	1157	
1	6	6240-00-924-7526	08108	1156	
1	7	6220-01-095-0019	13548	99007R	
1	8	5365-01-102-1982	13548	97904	
1	9	6220-01-061-7513	13548	30200C	
1	10	5325-01-068-3428	13548	30701	
1	11		13548	30200Y	
2	1	6220-00-080-2351	13548	10004Y	
2	1	6220-01-095-0011	13548	10004R	
2	2	6220-01-095-0117	13548	10720	
2	3	5310-00-889-2708	96906	MS45904-54	
2	4	5310-00-934-9747	96906	MS35649-262	
2	5	5305-00-855-0963	96906	MS24629-26	
2	6	6220-01-095-0009	13548	80301R	
2	6	6220-01-121-4327	13548	80302R	
2	7	6240-00-889-1799	08108	1157	
2	7	6240-00-924-7526	08108	1156	
2	8	6220-01-095-0019	13548	99007R	
2	9	5365-01-102-1982	13548	97904	
2	10	5305-00-855-0964	96906	MS24629-48	
2	11	6220-01-301-5411	13548	10744R	
2	12		64133	C-10075	
2	13	6220-01-095-0010	13548	10202Y	
2	13	6220-01-095-0011	13548	10004R	
3	1	6220-01-085-3391	13548	30200R	
3	2	6220-01-047-4059	13548	40202R	
3	3		13548	30200Y	
3	4	5305-00-855-0963	96906	MS24629-26	
4	1	6220-00-337-6471	96906	MS51330-1	
4	2	6220-00-752-6018	19207	7526018	
4	3	5330-00-297-7106	19207	7320658	
4	4		96906	MS15571-1251	
4	5	6240-00-155-8717	81348	W-L-00111/60	
4	6	5310-00-820-6653	12603	23E10	
4	7	5305-00-115-9526	96906	MS18154-58	
5	1	5995-01-061-0493	25575	FB7883	
5	2	5940-00-143-4794	96906	MS25036-112	

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FIG	ITEM	FIGURE AND ITEM NUMBER STOCK NUMBER	INDEX CAGEC	PART NUMBER
5	3		25575	SAEJ555A16AWG147 IN
5	4	5935-00-167-7775	96906	MS27144-1
6	1	5995-01-060-9640	25575	FB5230-4
6	2	5940-00-143-4794	25575	C228-10
6	3		25575	SAEJ555A12AWG12F T
6	4	6150-01-174-0487	98255	SW18517A
6	5	5940-00-143-4780	96906	MS25036-108
6	6		98255	SW14499P-8560
6	7	5940-00-846-8104	00779	324015
6	8		98255	SW18518A
6	9	5940-00-143-4780	96906	MS25036-108
6	10		98255	SW14875P
6	11		98255	SW14519P-1
6	12		98255	SW14490A
6	13	5940-00-143-4780	96906	MS25036-108
6	14		98255	SW14875P
6	15		98255	SW14519P-1
6	16		98255	SW14491A
6	17		98255	SW14519P-1
6	18		98255	SW14875P
7	1		25575	FB7884
7	2		25575	B231
7	3		25575	SAEJ555A12AWG34F T
7	4		25575	541217A1
7	5		5V961	AC8-119-14
7	6		25575	SAEJ555A16AWG10F T
8	1	5995-01-061-0492	25575	FB7885
8	2	5935-00-167-7775	96906	MS27144-1
8	3		5V961	AC8-119-14
8	4		25575	SAEJ555A16AWG9FT
8	5		25575	SAEJ555A12AWG88I N
9	1	5995-01-061-0273	13548	96900
9	2	5935-01-089-9164	13548	6013
9	3		13548	04058B
9	4		13548	5009
9	5		13548	6006
10	1	5305-00-855-0964	96906	MS24629-48
10	1	5305-00-855-0964	96906	MS24629-48
10	2	5930-00-655-1514	96906	MS35058-22
10	3	5935-00-846-3883	96906	MS75021-1
10	4	5305-00-068-0502	96906	MS90725-6
10	4	5305-00-988-1724	96906	MS35206-280
10	5		98255	SW18532A
10	6	5935-00-773-1428	19207	7731428
10	7	5305-00-984-5675	96906	MS35206-295
10	8	5935-01-141-0877	98343	782

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FIG	ITEM	FIGURE AND ITEM NUMBER STOCK NUMBER	INDEX CAGEC	PART NUMBER
10	9	5310-00-081-4219	96906	MS27183-12
10	9	5310-00-407-9566	96906	MS35338-45
10	10	5310-00-829-9981	96906	MS35649-2312
10	10	5310-00-984-3806	96906	MS51922-9
10	11	5310-00-088-1251	96906	MS51922-1
10	11	5310-00-997-1888	96906	MS35649-2252
10	12	5310-00-582-5965	96906	MS35338-44
10	12	5310-00-809-4058	96906	MS27183-10
10	13	5940-01-142-1303	30119	89-212
10	14	5305-00-988-1727	96906	MS35206-283
10	15	5310-00-582-5965	99539	CBM21389
10	16	5310-00-761-6882	96906	MS51967-2
11	1		98255	SW14865P
11	1	5905-00-101-2769	44655	L50J5R0
11	2	5940-01-142-1303	30119	89-212
11	2	5940-01-184-4835	98255	SW14292P-8
11	3	5905-00-883-0394	81349	RW35V3R9
11	3	5905-01-102-4021	91637	HL50-02Z-3R6J
11	4	5940-00-949-5536	26405	603-JJ-03
11	5	5305-00-984-6212	96906	MS35206-265
11	5	5305-00-984-6212	96906	MS35206-265
11	6	5310-00-927-3877	96906	MS51922-14
11	6	5310-00-927-3877	96906	MS51922-14
11	7	7690-01-094-7873	98255	SW15192P
12	1	5325-00-174-9325	96906	MS35489-107
12	2	5975-00-111-3208	96906	MS3367-5-9
12	3	5325-01-068-3428	13548	30701
12	4	5340-00-978-3439	98343	1511-3
12	5	5325-00-291-9366	96906	MS35489-11
12	6		13548	40MGR
12	7	5340-01-060-9250	98343	1511-6
13	1		78500	TK4670P2000
13	2	5310-01-117-2404	78500	1227B756
13	3	5305-01-186-5859	78500	1199-K-3859
13	4	5310-01-179-4113	78500	1229W2545
13	5	2530-00-886-1103	78500	1227C549
13	6	5310-01-224-6835	78500	1229X3118
13	7	5330-01-024-2294	78500	1205V1452
13	8	2530-01-189-9753	78500	A 1225M1053
13	9	5330-01-023-5229	78500	1205U1451
13	10	4730-00-007-2275	78500	1199J1908
13	11	5365-01-289-7520	78500	1229A1119
13	12	5305-00-185-1468	78500	S 2610 P
13	13	5310-01-083-9507	78500	1229-C-1017
13	14	2530-01-179-4114	78500	A1199D2526
13	15	2530-01-189-9754	78500	NL 26 C
13	16	4730-00-050-4208	96906	MS15003-1
13	17	5365-00-753-4865	78500	1229-J-868
13	18	5310-01-133-5373	78500	1229B1848
13	19	5365-00-204-5061	78500	1229X1116
13	20	2530-01-179-4115	78500	2210T4180

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FIG	ITEM	FIGURE AND ITEM NUMBER STOCK NUMBER	INDEX CAGEC	PART NUMBER
13	20	2530-01-179-4116	78500	2210U4181
14	1	2530-01-257-6443	62707	M16WN101X
14	2	5320-01-020-0703	62707	M10HM160
14	3	2530-00-706-6614	89346	93931R96
14	4	5365-01-062-1009	62707	31624
14	5	5310-01-062-1531	62707	M10HN135
14	6	5315-01-220-6238	62707	M10HP102
14	7	2530-01-016-2029	56697	207100
14	8	5360-01-241-6961	62707	M16WJ100
14	9	2530-00-332-5729	78500	1718Y103
14	10	5360-01-220-9373	62707	M16WJ103
15	1	2530-01-179-7640	78500	D45-3722N-66
15	2	2530-01-316-9167	78500	2000-F-1228
15	3	5320-01-179-4118	78500	388S
15	4	2530-00-332-5729	78500	1718Y103
15	5	3120-00-322-6430	78500	1779R18
15	6		78500	1229B1849
15	7	3120-01-179-4120	78500	1225N976
15	8	5315-01-179-7533	78500	1259J 218
15	9	5365-00-204-5061	78500	1229X1116
15	10	5360-01-179-4119	78500	2258Z416
16	1	2530-00-372-4100	19207	8336779
16	1	2530-00-426-8342	08862	A-7022
16	2		32461	5033
16	2	4730-00-050-4208	96906	MS15003-1
17	1		5V961	AC8-119-14
17	2	4730-01-062-2570	51038	68NTA6-4
17	3	2530-01-063-0087	84290	G1042
17	4	4820-00-752-9040	96906	MS35782-4
17	5	5305-00-068-0511	80204	B1821BH038C125N
17	6		82942	53171
17	7	5310-00-087-4652	96906	MS51922-17
17	8	4730-00-196-1505	25575	AC8-119-3
17	9	5360-01-302-9882	06721	10601
17	10	4730-01-062-5762	98343	1507
17	11	4730-00-257-2117	24617	144083
17	12	4720-00-441-4926	98343	31-22B360
17	13		58429	8FS66-28M
17	14		58429	8FS66-54
17	15		06721	115411
17	16	4730-00-277-9615	93061	2225P-4
17	17	5340-00-978-3439	98343	1511-3
17	18	5305-01-118-2335	25575	AC-8-119-20
17	19	4720-01-014-4915	06853	246115
18	1	2530-01-192-3442	62173	1200
18	2	4820-00-495-9680	04627	12878
18	3	5305-00-068-0511	80204	B1821BH038C125N
18	4	5310-00-080-6004	96906	MS27183-14
18	5	5310-00-637-9541	96906	MS35338-46
18	6	5310-00-732-0558	96906	MS51967-8
18	7	4820-01-137-9236	06721	N4301AA

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FIG	ITEM	FIGURE AND ITEM NUMBER STOCK NUMBER	INDEX CAGEC	PART NUMBER
18	8	4730-00-193-0869	19422	BM11352-77
18	9	4730-00-409-7854	10988	222-1851
18	10	3120-01-113-3627	98255	SW12948-4
18	11	4720-01-003-6706	30327	C608
18	12		98343	N-10492-E
18	13	4730-00-613-5552	21450	144151
18	14	4720-01-213-1282	98343	31-22B-250
18	15	4720-01-003-6706	30327	C608
18	16	4730-00-526-0284	06853	217690
18	17	4720-01-185-0478	98343	31-22B-550
18	18	4730-00-196-1539	96906	MS51953-36
18	19	4730-00-257-2117	24617	144083
18	20	4730-00-196-1505	96906	MS51953-101
19	1	2530-00-493-7145	15564	C30-2
19	1	2530-01-063-1977	50153	161366
19	2	5340-01-060-8993	50153	11M018-1
19	2	5340-01-179-7521	15564	8292001
19	3	5310-00-835-2037	50153	11M050
19	3	5310-01-117-6260	72582	124925
19	4	5310-01-076-4959	98349	L-10-MNS-500-X-9
19	4	5310-01-194-2772	15564	8130008
19	5	5310-01-062-1451	50153	11M066
19	5	5310-01-179-7598	15564	8083011
19	6	4730-00-014-4054	81348	WW-P-471BDQBCFC
19	7	4730-00-278-4290	96906	MS39231-2
20	1	2530-01-032-0428	15564	3130051
20	1	2530-01-101-5429	50153	162429
20	2	2530-01-084-6975	50153	11M012
20	2	3040-01-065-2021	15564	9006001
20	3	2530-01-095-3561	50153	11M011
20	4	5310-01-179-7598	15564	8083011
20	5	5310-01-194-2772	15564	8130008
20	6		81349	22-P-471BD1QBDCB
20	6	4730-00-193-0869	19422	BM11352-77
21	1	2530-00-622-6803	06853	281860
22	1	2530-00-691-5986	16662	A71890
23	1	2590-01-179-9074	25575	PB8-0140-1
23	2		95255	SW14684A
23	2	5935-01-168-3342	25575	FB6820
23	3	5305-01-062-3155	25575	PC8-0139-14
23	4	5305-00-432-4173	96906	MS51861-15
23	5	2530-00-137-9235	19207	7411021
23	6	4010-00-551-9921	06853	212930
23	7	4730-00-595-0083	96906	MS35746-1
23	8	5325-00-270-8889	96906	MS35489-81
23	8	5330-00-090-2128	96906	MS35748-1
23	9	4730-00-289-2357	126603	29F3
23	10	4730-00-244-9848	40670	11682888
23	11		29146	140070
23	12		79470	1469X6X6
23	13	4730-01-097-4330	98343	51410107

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FIG	ITEM	FIGURE AND ITEM NUMBER STOCK NUMBER	INDEX CAGEC	PART NUMBER
23	14		25575	FA6821
23	14		98255	SW18533A
23	15	5305-00-942-2196	96906	MS18154-60
24	1	5306-00-225-8496	96906	MS90725-31
24	1	5306-00-891-5574	72540	08-201500
24	2	5310-00-407-9566	96906	MS35338-45
24	2	5310-01-019-6532	72540	08-201943
24	3	5340-00-148-5022	72540	09-005205
24	4	5330-01-101-4860	62707	M10HG108
24	5	3110-00-829-0575	96906	MS19081-113
24	6	2530-01-067-3771	14371	01-07791-014
24	7	2530-01-049-8623	25575	GA16851-20
24	8	3110-00-101-4186	96906	MS19081-132
24	9	5330-01-049-4093	80201	40136
24	10	5306-00-891-5574	72540	08-201500
24	11	5310-00-155-5085	72540	08-201-932
24	12	5307-00-119-4980	72540	08-008411
24	13	5340-00-124-5745	72540	09-612317
24	14	5310-00-917-6210	72540	08-005716
24	15	5365-00-175-5050	72540	09-005669
24	16	2530-01-060-9898	73195	262FL2-1
25	1	2610-00-060-9960	81348	GP3STYLXTYBBCLR/ T/10.00-20/G/TBH
25	2	2610-00-260-7345	81348	GROUP2/10.00-20 /TR78A/ONCENTER
25	3	2640-00-158-5617	19207	11662389-2
25	4	2640-00-050-1229	1787	100AA
25	5	2640-00-255-9346	83930	41406-1
26	1		25575	PD6-0223
26	2		25575	FC-6872-4-1
26	3		25575	FC-6872-4-2
26	4		25575	FC-6872-4-3
26	5		25575	FC-6872-4-4
26	6	5305-01-061-3206	25575	FC6792-9
26	6	5305-01-193-2358	98255	SW14342P
26	7	5340-01-112-6396	83473	TB-20
26	8	5305-00-071-2074	80204	B1821BH050C275N
26	9	5310-00-809-5998	96906	MS27183-18
26	10	5310-00-225-6993	96906	MS51922-33
26	11	2510-01-178-7229	98255	SW18416K
27	1	5310-00-809-5997	96906	MS27183-17
27	2	5310-00-225-6993	96906	MS51922-33
27	3		25575	PD18-0085-1
27	4	5340-01-145-1679	65059	78006-1RH-SC
27	5	5310-00-088-1251	96906	MS51922-1
27	6		25575	FA6778
27	7	5310-00-823-8804	96906	MS27183-9
27	8	5305-00-954-4617	96906	MS35218-73
27	9	5305-00-071-2078	80204	B1821BH050C375N
28	1	5325-01-202-0957	94658	F804-2
28	2		94658	PH2969-1

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FIG	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
28	3	2590-01-178-7238	94658	PH2965-1
28	4	5340-01-178-7239	94658	PH2966-1
28	5	5340-01-178-7240	94658	PH2967-1
28	6	5360-01-178-7381	94658	PH2986-1
28	7	5310-01-178-7336	94658	PH2987-1
28	8		98255	SW18415P-8
28	9		94658	PH2993-1
28	10		98255	SW18415P-6
28	11		98255	SW18415P-7
28	12	5340-01-213-1308	94658	RK804-1B
29	1	5305-00-071-2078	80204	B1821BH050C375N
29	2		25575	PD18-0085-2
29	3		25575	FA6778
29	4	5310-00-823-8804	96906	MS27183-9
29	5	5305-00-954-4617	96906	MS35218-73
29	6	5310-00-088-1251	6906	MS51922-1
29	7	5340-01-075-6924	25575	P4960-1
29	8	5310-00-225-6993	96906	MS51922-33
29	9	5310-00-809-5997	96906	MS27183-17
30	1	2590-01-202-0956	94658	F804-1
30	2	2590-01-176-9376	94658	PH2970-1
30	3		94658	PH2971-1
30	4		98255	SW18414P-7
30	5	2590-01-178-7241	94658	PH2964-1
30	6	5315-01-179-4121	98255	SW18414P-5
30	7	5315-01-178-7307	98255	SW18414P-6
30	8		94658	PH2968-2
31	1	5315-00-844-3662	96906	MS16562-62
31	2	5310-00-087-4652	96906	MS51922-17
31	3	5365-01-062-3643	25575	FA7860
31	4	5305-00-725-2317	80204	B1821BH038C150N
32	1	5315-00-844-3662	96906	MS16562-62
32	2	5310-00-087-4652	96906	MS51922-17
32	3	5365-01-062-3643	25575	FA7860
32	4	5305-00-725-2317	80204	B1821BH038C150N
33	1	5315-00-844-3662	96906	MS16562-62
33	2	5310-00-087-4652	96906	MS51922-17
33	3	5365-01-062-3643	25575	FA7860
33	4	5305-00-725-2317	80204	B1821BH038C150N
34	1	2540-01-306-1387	59306	FA10361
34	2	3940-01-176-4658	25575	FB10325-1
34	3		00000	TBD
34	4	5365-01-062-3643	25575	FA-7860
35	1		4A198	18488P
35	2	5315-00-013-7214	96906	MS24665-359
35	3	5315-01-191-3383	98255	SW18538M
35	4	5340-01-318-6775	27182	90M FLUSH 45DEG
36	1		00000	TBD
37	1		98255	SW18515A
37	1	2590-01-217-5734	59306	GA16851-24
37	2		98255	SW18560P

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FIG	ITEM	FIGURE AND ITEM NUMBER INDEX		PART NUMBER
		STOCK NUMBER	CAGEC	
37	3	4010-01-214-4073	98255	SW18713P
37	4	4010-01-219-6131	98255	SW18712P
37	5	5305-00-115-9526	96906	MS18154-58
37	6	5310-00-080-6004	96906	MS27183-14
37	7	5310-00-056-3395	96906	MS35649-2382
37	8	5310-00-480-7606	19207	10938443-2
37	9	5306-00-448-4218	19207	11593182
38	1	2590-01-176-4787	99411	475095
38	2	2590-01-193-4089	99411	LG5M29-91
38	3	5305-01-175-0568	99411	PP0050-36
38	4	5310-01-174-0431	99411	PP0016-03
38	5	3040-01-175-0585	99411	LG0094-33
38	6	2590-01-192-3445	99411	LG5M29-92
38	7	5340-01-175-0564	99411	LG0083-05
38	8	5310-01-175-0484	99411	PP0012-22
38	9	5315-01-316-7547	99411	LG0070-02
38	10	2590-00-177-9980	99411	LG1511-01
38	11	2590-01-065-7220	19207	11625075
38	12	2510-01-060-9683	19207	11625075-1
38	13	5310-00-820-6653	96906	MS35338-50
38	14	5310-00-763-8920	96906	MS51967-20
38	15	2590-01-061-4405	80837	6880-86-1
38	16	2510-01-176-9374	98255	SW14692M
38	17	5305-00-724-7223	80204	B1821BH063C225N
39	1	2530-01-176-9400	98171	910-18-005
39	2	5306-01-061-2963	98171	900-41-169
39	3	5310-01-061-1310	98171	934-00-492
39	4	5305-01-061-1416	98171	930-03-345
39	5	2530-01-176-9403	98171	910-01-066
39	6	5310-00-823-8803	96906	MS27183-21
39	7	5310-01-061-1311	98171	934-00-488
39	8	5310-00-269-4040	96906	MS51922-49
39	9	5310-00-823-8803	96906	MS27183-21
39	10	5305-00-928-9636	98171	930-03-633
39	11	5305-00-725-2317	80204	B1821BH038C150N
39	12	5310-01-061-0688	98171	936-00-186
39	13	5310-01-061-1307	98171	934-00-500
39	14	5305-01-061-2973	98171	930-03-935
39	15	2530-01-176-9401	98171	910-10-060
39	16	2530-01-052-4018	98171	910-28-051
39	17	2530-01-176-9399	98171	910-01-089
39	18	9320-01-061-9336	98171	910-28-089
39	19	5310-01-061-0690	98171	936-00-162
39	20	5310-01-061-1312	98171	934-00-498
39	21	5305-01-061-0734	98171	930-04-239
39	22	2530-01-177-3048	98171	910-15-015
39	23	5305-01-061-0735	98171	93003575
39	24	5305-01-061-0736	98171	930-03-657
39	25	5365-01-061-0714	98171	910-36-078
39	26	5365-01-316-3300	92967	11357-00
39	27	2530-01-177-3047	98171	900-10-009

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FIG	ITEM	FIGURE AND ITEM NUMBER INDEX		PART NUMBER
		STOCK NUMBER	CAGEC	
39	28	5310-01-061-0689	98171	936-00-156
39	29	2530-01-176-9404	98171	910-01-075
39	30	2510-01-062-1920	98171	915-57-172
39	31	2510-01-061-0429	98171	910-10-108
39	32		98171	910-38-290
39	33	5306-01-061-0731	98171	939-00-009
39	34	2530-01-176-9402	98171	910-01-088
39	35	5305-01-068-5500	98171	930-02-921
39	36	5310-01-061-1309	98171	934-00-569
39	37	5340-01-061-2870	98171	915-44-003
39	38		98171	910-44-004
39	39	5340-01-061-2951	98171	910-08-007
39	40	5310-01-061-1308	98171	934-00-480
39	41	5310-01-061-1456	98171	934-00-284
39	42	5306-01-061-5872	98171	915-06-003
39	43	5310-01-061-1455	98171	934-00-036
39	44	5340-01-061-2869	98171	915-44-002
39	45		98171	910-44-003
39	46	5340-01-061-2951	98171	910-08-007
40	1	5306-01-194-4972	92967	7816-56
40	2		92967	11497-00
40	3	5310-01-098-7827	92967	841-00
40	4	5305-00-724-7223	80204	B1821BH063C225N
40	5	5310-00-823-8803	96906	MS27183-21
40	6	5310-00-269-4040	96906	MS51922-49
40	7		92967	11453-00
40	8		96906	MS27183-21
40	9	5310-00-269-4040	96906	MS51922-49
40	10	5305-00-725-2317	80204	B1821BH038C150N
40	11	5305-01-192-5742	92967	11456-00
40	12	5310-01-195-7956	92967	35-00
40	13	5310-01-192-9307	92967	11514-00
40	14	5305-01-244-7970	92967	11443-00
40	15	5340-01-245-3949	92967	11444-00
40	16	5330-01-191-3457	92967	11445-00
40	17	5340-01-250-0785	92967	11433-00
40	18	5305-01-198-4649	92967	11435-00
40	19	5340-01-245-3947	92967	11441-00
40	20	5305-01-195-5042	92967	11439-00
40	21	5310-01-099-6539	92967	37-03
40	22	5365-01-316-3300	92967	11357-00
40	23	5340-01-245-3948	92967	11434-00
40	24		92967	11432-00
40	25	5310-01-244-7572	92967	11452-00
40	26	5310-01-098-7245	92967	817-00
40	27	2510-01-243-4940	92967	11436-00
40	28	2510-01-191-6644	92967	11438-00
40	29	5310-01-194-9211	92967	34-04
40	30	5310-01-194-5006	92967	11449-00
40	31	5310-01-098-7246	92967	837-00
40	32	4710-01-243-3391	92967	11446-00

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FIG	ITEM	FIGURE AND ITEM NUMBER STOCK NUMBER	INDEX CAGEC	PART NUMBER
40	33	5306-01-197-1491	92967	11448-00
40	34		92967	11447-00
40	35	2530-01-174-0464	92967	11451-00
40	36	2530-01-178-7227	92967	11450-01
40	36	2530-01-178-7228	92967	11450-02
40	37	5305-01-197-1210	92967	718-00
40	38		92697	11478-00
40	38		92967	11478-02
40	39	5310-01-174-0433	92967	32-00
40	40	5310-01-174-0380	92967	33-01
40	41	3120-01-195-5154	92967	11477-00
40	42		92967	11437-00
41	1	5365-01-078-5901	19220	15592
41	2	5365-01-064-2204	19220	8000-4
41	3	5310-01-063-9764	19220	5X252
41	4	5340-01-188-7395	19220	8000-2
41	5	5360-01-061-3207	19220	15595
41	6		19220	8000-1
41	7	5340-01-010-3842	19220	8000
41	8	5310-01-061-3872	19220	8000PIN
41	9		19220	8000-51
42	1	5365-01-078-5901	19220	15592
42	2	5365-01-064-2204	19220	8000-4
42	3	5310-01-063-9764	19220	5X252
42	4	5340-01-188-7395	19220	8000-2
42	5	5360-01-061-3207	19220	15595
42	6		19220	8000-1
42	7	5340-01-010-3842	19220	8000
42	8	5310-01-061-3872	19220	8000PIN
42	9		19220	8000-51
43	1	2510-01-067-5397	25575	AB36-032
43	2	5306-01-116-3535	11815	15055P
43	3	5305-00-071-2509	80204	B1821BH025C150N
43	4	5305-00-068-0502	96906	MS90725-6
43	5	2510-01-104-8954	98255	SW14880M2
43	6	5310-00-088-1251	96906	MS51922-1
43	7	2510-01-063-3702	25575	AB36-032-2
43	8	5310-01-119-8200	98255	SW15056P
43	9	2510-01-098-3995	98255	SW14657M
43	10	2510-01-063-0262	25575	AB36-033
43	11	5310-01-119-8200	98255	SW15056P
43	12	5310-00-088-1251	96906	MS51922-1
43	13	2510-01-094-7910	98255	SW14671P-3
43	14	2590-01-060-7119	98255	SW14880M3
43	15	5305-00-071-2509	80204	B1821BH025C150N
43	16	5305-00-068-0501	96906	MS90725-5
43	17	5306-01-116-3535	11815	15055P
43	18	2510-01-098-3995	98255	SW14657M
43	19	2510-01-096-9347	98255	SW15254A1
43	19	2510-01-096-9349	98255	SW15254A2
43	20	5310-00-088-1251	96906	MS51922-1

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FIG	ITEM	FIGURE AND ITEM NUMBER INDEX		PART NUMBER
		STOCK NUMBER	CAGEC	
43	21	4010-01-114-1333	98255	SW15266A
43	22	4010-01-142-0450	98255	SW10998P1-18
43	23	4010-01-144-1734	98255	SW11935P-1
43	24	5340-00-904-0008	80874	225-750
43	25	5310-00-809-4058	96906	MS27183-10
43	26	5305-00-988-1727	96906	MS35206-283
43	27	2510-01-096-9348	98255	SW14659M1
43	27	2510-01-096-9350	98255	SW14659M2
43	28	2510-01-096-9346	98255	SW14658M
43	29		98255	14804A
43	30	5315-00-775-3911	19207	7753911
43	31	5305-00-910-7333	25575	SKC22576-11
43	32	2510-01-060-7120	25575	FB7552
44	1	2510-01-063-0264	25575	AB36-034-2
44	2	5310-00-088-1251	96906	MS51922-1
44	3	2510-01-177-4452	98255	SW14880M-4
44	4	5305-00-068-0502	96906	MS90725-6
44	5	5305-00-071-2509	80204	B1821BH025C150N
44	6	5306-01-116-3535	11815	15055P
44	7	2510-01-098-3995	98255	SW14657M
44	8	5310-01-119-8200	98255	SW15056P
44	9		98255	SW14671P
45	1	2510-01-312-4715	8S867	M871PNL1
45	2	5310-00-088-1251	96906	MS51922-1
45	3	2510-01-177-4453	98255	SW14880M-1
45	4	5305-00-068-0502	96906	MS90725-6
45	5	5305-00-071-2509	80204	B1821BH025C150N
45	6	5306-01-116-3535	11815	15055P
45	7	2510-01-098-3995	98255	SW14657M
45	8	5310-01-119-8200	98255	SW15056P
45	9	2510-01-183-2738	98255	SW14671P-1
46	1		PAOZZ	SW14699A
46	1	4010-00-930-5409	19207	8739382
46	2	4030-01-106-5960	98255	SW14696P
46	3		25575	SKC22576-18
46	4	5310-00-637-9541	96906	MS35338-46
46	5	5306-00-050-0346	96906	MS51937-3
46	6	5310-00-732-0558	96906	MS51967-8
46	7	4010-01-144-1734	98255	SW11935P-1
47	1	2540-01-047-5771	25575	FA4798
47	1	2540-01-098-1782	98255	SW14417M
47	2	5305-00-068-0511	80204	B1821BH038C125N
47	3	2540-00-897-5917	19207	10882200
47	3	2540-00-921-5069	96906	MS51331-6
47	4	5310-00-056-3395	96906	MS35649-2382
47	4	5310-00-087-4652	96906	MS51922-17
47	5	5310-00-637-9541	96906	MS35338-46
48	1	4010-00-757-9556	80244	45-C-16570
48	2		80244	AN415-5
49	1	9905-01-069-7282	13548	98007R
49	1	9905-01-070-0471	13548	98007Y

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		FIGURE AND ITEM NUMBER	INDEX	
	ITEM	FIG	CAGEC	PART NUMBER
49	2	5310-00-934-9758	96906	MS35649-202
49	3	5310-00-045-3296	96906	MS35338-43
49	4	9905-01-105-8610	81834	40093-3
49	4	9905-01-110-2079	81834	40092-3
49	5	5305-00-984-6211	96906	MS35206-264
49	6	4730-00-591-3405	95879	301370
50	1		25575	FC10332
50	1		98255	SW18457P
50	2		94222	38-104-09-13
50	2	5320-00-882-8385	81349	M24243/6-A606H
50	3		25575	FB-8433
50	3		98255	SW18458P
50	4		25575	FB-10532
50	4		98255	SW18486P
50	5		98255	SW16653P

SECTION IV		TM9-2330-359-14&PC02		
		CROSS-REFERENCE INDEXES		
		FIGURE AND ITEM NUMBER INDEX		
FIG	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
49	2	5310-00-934-9758	96906	MS35649-202
49	3	5310-00-045-3296	96906	MS35338-43
49	4	9905-01-105-8610	81834	40093-3
49	4	9905-01-110-2079	81834	40092-3
49	5	5305-00-984-6211	96906	MS35206-264
49	6	4730-00-591-3405	95879	301370
50	1		25575	FC10332
50	1		98255	SW18457P
50	2		94222	38-104-09-13
50	2	5320-00-882-8385	81349	M24243/6-A606H
50	3		25575	FB-8433
50	3		98255	SW18458P
50	4		25575	FB-10532
50	4		98255	SW18486P
50	5		98255	SW16653P

APPENDIX G

TORQUE LIMITS

G-1. SCOPE.

This appendix lists standard torque values, as shown in Table G-1, and provides general information for applying torque. Special torque values and tightening sequences are indicated in the maintenance procedures for applicable components.

G-2. GENERAL.

a. Always use the torque values listed in Table G-1 when the maintenance procedure does not give a specific torque value.

b. Unless otherwise indicated, standard torque tolerance shall be $\pm 10\%$.

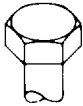



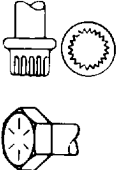
c. Torque values listed are based on clean, dry threads. Reduce torque by 10% when engine oil is used as a lubricant, Reduce torque by 20% if new plated capscrews are used.

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

CAUTION

If replacement capscrews are of a higher grade than originally supplied, use torque specifications for the original. This will prevent equipment damage due to overtorquing.

Table G-1. Standard Torque Specifications.

Current Usage	Much Used	Much Used	Used at Times	Used at Times
Quality of Material	Indeterminate	Minimum Commercial	Medium Commercial	Best Commercial
SAE Grade Number Capscrew Head Markings Manufacturer's marks may vary These are all SAE Grade 5 (3 line)	1 or 2  	5 	6 or 7 	8 
Capscrew Body Size Inches - Thread	Torque lb.-ft. (N•m)	Torque lb.-ft. (N•m)	Torque lb.-ft. (N•m)	Torque lb.-ft. (N•m)
$\frac{1}{4}$ 20	5 (7)	8 (11)	10 (14)	12 (16)
28	6 (8)	10 (14)		14 (19)
$\frac{5}{16}$ 18	11 (15)	17 (23)	19 (26)	24 (33)
24	13 (18)	19 (26)		27 (37)
$\frac{3}{8}$ 16	18 (24)	31 (42)	34 (46)	44 (60)
24	20 (27)	35 (47)		49 (66)
$\frac{7}{16}$ 14	28 (38)	49 (66)	55 (75)	70 (95)
20	30 (41)	55 (75)		78 (106)
$\frac{1}{2}$ 13	39 (53)	75 (102)	85 (115)	105 (142)
20	41 (56)	85 (115)		120 (163)
$\frac{5}{8}$ 12	51 (69)	110 (149)	120 (163)	155 (210)
18	55 (75)	120 (163)		170 (231)
$\frac{3}{4}$ 11	83 (113)	150 (203)	167 (226)	210 (285)
18	95 (129)	170 (231)		240 (325)
$\frac{7}{8}$ 10	105 (142)	270 (366)	280 (380)	375 (508)
16	115 (156)	295 (400)		420 (569)
$\frac{7}{8}$ 9	160 (217)	395 (536)	440 (597)	605 (820)
14	175 (237)	435 (590)		675 (915)
1	235 (319)	590 (800)	660 (895)	910 (1234)
14	250 (339)	660 (895)		990 (1342)

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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
 1 Sq Meter=10,000 Sq Centimeters=10.76 Sq Feet
 1 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

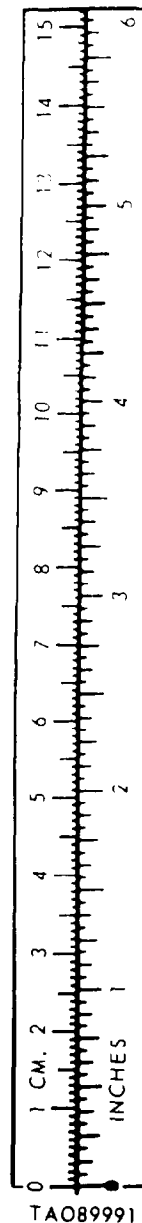
TEMPERATURE

$5/9 (^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 122° Fahrenheit is equivalent to 50° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5 \text{ C}^{\circ} + 32 = \text{F}^{\circ}$

APPROXIMATE CONVERSION FACTORS

<u>TO CHANGE</u>	<u>TO</u>	<u>MULTIPLY BY</u>
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

<u>TO CHANGE</u>	<u>TO</u>	<u>MULTIPLY BY</u>
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
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	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621



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