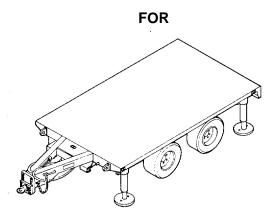
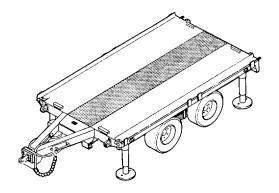
TECHNICAL MANUAL

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



TRAILER: FLATBED 5-TON TANDEM AXLE XM1034 NSN 2330-01- 173-9264



TRAILER: FLATBED 6-TON TANDEM AXLE XM1048 NSN 2330-01-167-7258

This copy is reprint which includes current pages from Change 1.

WARNING

Do not stand between towing vehicle and trailer when backing towing vehicle.

WARNING

Wheel and tire assembly weighs approximately 150 pounds. Two persons are required to lift and handle a wheel.

WARNING

Wear protective goggles when opening drain cock and avoid air blast, or eye injury may occur.

WARNING

Dry Cleaning Solvent PD-680 used to clean parts is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point is 138 degrees F (59 degrees C).

WARNING

Do NOT use a dry brush or compressed air to clean brake shoes. Brake shoe linings contain asbestos and shed dust particles, which can be dangerous to your health if breathed. Dampen surface of lining with water and use a soft bristle brush.

CHANGE

NO. 1

HEADQUARTERS DEPARTMENT OF THE ARMY Washington, D.C., 28 April 1988

OPERATOR'S, ORGANIZATIONAL,
DIRECT SUPPORT, AND GENERAL SUPPORT
MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)
FOR
TRAILER: FLATBED 5-TON TANDEM AXLE XM1034

NSN 2330-01-173-9264

AND

TRAILER: FLATBED 6-TON TANDEM AXLE XM1048
NSN 2330-01-167-7258

Current as of 24 March 1988

TM 9-2330-372-14&P, 10 July 1985, is changed as follows:

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

Remove Pages Insert Pages i and ii i 1-7 thru 2-2 1-7 thru 2-2 2-11 and 2-12 2-11 and 2-12 3-11/(3-12 blank) 3-11/(3-12 blank) 4-23 thru 4-26 4-23 thru 4-27/(4-28 blank) 5-5 and 5-6 5-5 thru 5-8

5-5 and 5-6 5-5 thru 5-8 16-1 thru Fig.19 16-1 thru Fig.19 Index 5 and Index 6

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

By Order of the Secretary of the Army:

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

Official:

R.L. DILWORTH Brigadier General, United States Army The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-39, Operator, Unit, Direct and General Support maintenance requirements for Semi-Trailer, Flatbed, 5-ton, XM1034; Semi-Trailer, Flatbed, 6-ton, XM1048.

Technical Manual No. 9-2330-372-14&P HEADQUARTERS DEPARTMENT OF THE ARMY Washington, D.C., 10 July 1935

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

TRAILER: FLATBED 5-TON TANDEM AXLE XM1034 NSN 2330-01-173-9264

AND

TRAILER: FLATBED 6-TON TANDEM AXLE XM1048 NSN 2330-01-167-7258

Current as of 9 April 1985.

REPORTING OF 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 or DA Form 2028 (Recommended Changes to Equipment Publications and Blank Forms), or DA Form 2028-2 located in the back of this publication direct to: US Army Tank-Automotive Command, ATTN: AMSTA-MBP, Warren, MI 48397-5000. A reply will be furnished to you.

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CHAPTER 1

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. GENERAL INFORMATION

1-1. SCOPE.

- <u>a.</u> This technical manual contains operating instructions and operator, organizational, direct and general support maintenance instructions, including repair parts and special tool lists.
 - b. This manual is for support of the:
 - (1) Trailer, Flatbed, 5-Ton, 4-Wheel, Tandem Axle, XM1034
 - (2) Trailer, Flatbed, 6-Ton, 4-Wheel, Tandem Axle, XM1048
 - c. The purpose of these trailers is to transport mounted items in support of various missions.
- <u>d.</u> All differences between the XM1034 and XM1048 will be discussed throughout the entire manual. All items apply to both trailers unless so designated.
- **1-2. MAINTENANCE FORMS AND RECORDS.** 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**. Refer to TM750-244-6, Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use (US Army Tank-Automotive Command).
- **1-4. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).** If your trailer needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at U.S. Army Tank-Automotive Command, AMSTA-MP, Warren, MI. 48090. We will send you a reply.
- **1-5. ADMINISTRATIVE STORAGE**. For test procedures, forms and records, and inspections required during administrative storage of this equipment, refer to TM740-90-1, Administrative Storage of Equipment.

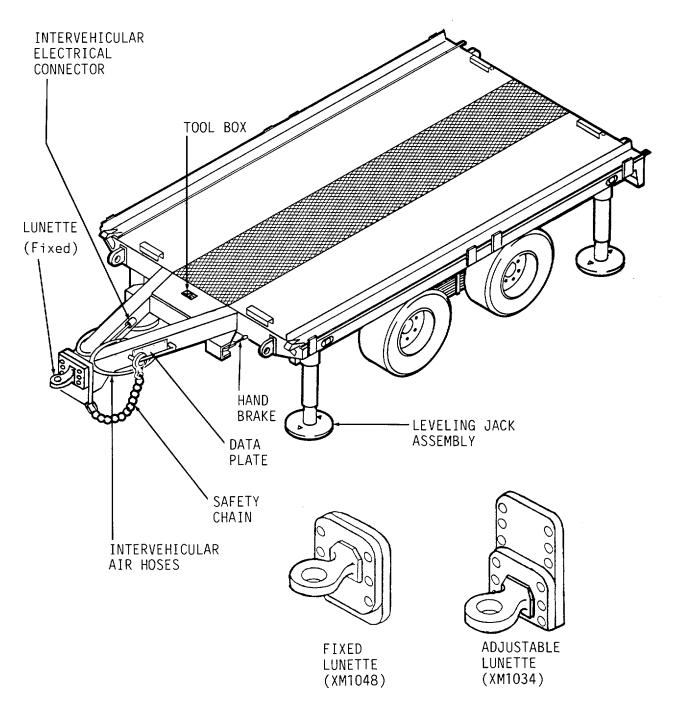
Section II. EQUIPMENT DESCRIPTION AND DATA

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

- Can be towed by a 5-ton truck. The XM1034 will be towed by the XM1015 tracked vehicle.
- Have leveling jacks.
- Have 24 volt electrical system.
- Have tandem axles.
- Can be towed over highways, improved roads and unimproved roads.

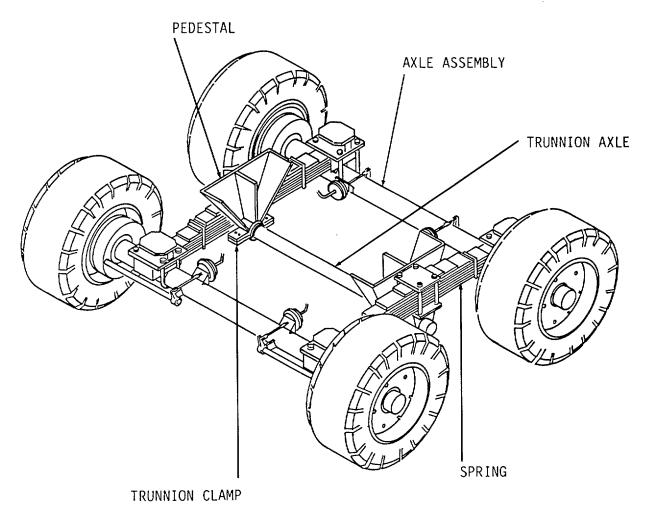
1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

- <u>a.</u> The flatbed trailer includes the frame, lunette, suspension system, air brake system, leveling jacks, and lighting system. The flatbed trailer frame is a welded steel structure comprised of channel members welded to a 7-gage steel decking plate on the XM1034 and a 3/16 inch plate with a center strip of mesh expanded metal on the XM1048.
 - Intervehicular safety chains (fig. 1-1) are secured on the drawbar adjacent to the lunette.
- <u>c.</u> The suspension system (fig. 1-2) is a tandem axle, leaf spring arrangement attached to a trunnion axle which is mounted to pedestals on the trailer frame. Each of the four wheels is equipped with mechanical shoe-type brakes actuated by the air brake system with air supplied and controlled by the towing vehicle.
- <u>d.</u> The air brake system (fig. 1-3) consists of "Service" and "Emergency" Intervehicular hoses and couplings, air filters, air reservoir, emergency relay valve, four air chambers, and connecting tubing. The Service line provides control air and the Emergency line provides supply air. Metal tags on the anchor couplings identify the towing vehicle outlet to which each hose is to be connected. The service brakes are expanding shoe and drum type. Air pressure for brake operation is supplied and controlled from the towing vehicle.
- <u>e.</u> Hand brake levers, located on each side of the drawbar, (fig. 1-1) connect through cables to the slack adjusters on the front axle. The slack adjusters serve as a means for setting the clearance between the brake shoes and the brake drum. Adjusting knobs on the ends of the hand brake levers tighten the cables, which in turn tighten the slack adjusters.
- <u>f.</u> Retractable leveling jacks (figs. 1-1 and 1-4) are located at each corner of the trailer deck. These jacks can be retracted for trailering or extended and individually raised or lowered to level the trailer bed in all directions. A removable hand crank is used to raise or lower the jacks.



TA 272426

Figure 1-1. Flatbed Trailer (XM1048 shown)



TA 272427

Figure 1-2. Suspension System

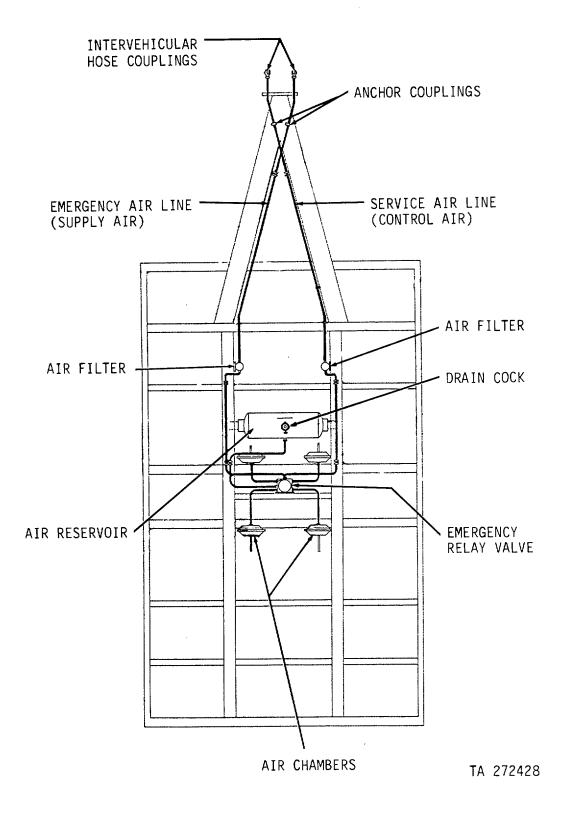


Figure 1-3. Air System

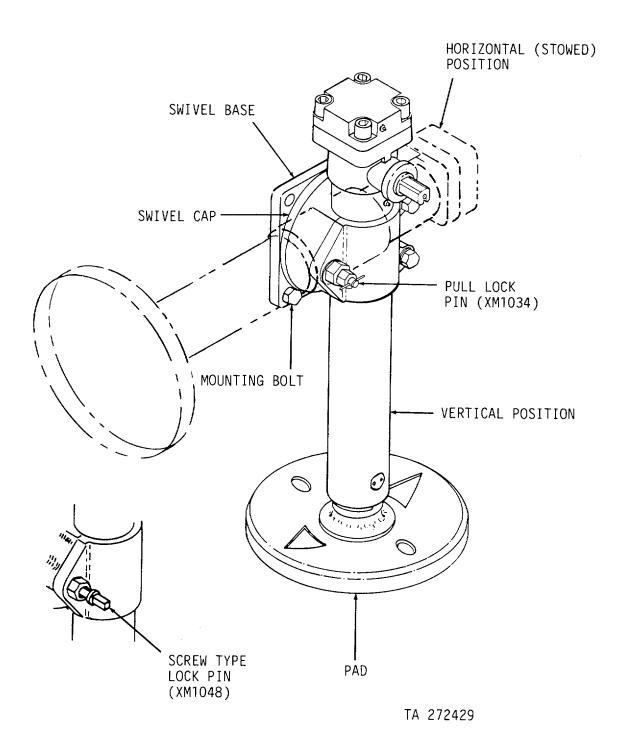


Figure 1-4. Leveling Jack

XM1048

- g. A swivel joint (fig. 1-4) on the jack leg allows the leg to be stowed in the horizontal position for towing or in the vertical position for stabilizing and leveling the trailer when stationary. A lock pin holds the jack in the horizontal or vertical position. This pin is springloaded on the XM1034 and is a screw type on the XM1048.
- <u>h</u>. The lighting system (fig. 1-5) is operated on 24 volts DC supplied by the towing vehicle. It consists of an Intervehicular cable, a wiring harness and two composite lights.

XM1034

i. A winch-type spare wheel carrier (fig. 1-6) is located on the underside of the decking at the rear.

1-8. MODEL DIFFERENCES.

a. XM1034 Trailer

- (1) Adjustable Lunette
- (2) Hand Brakes (cable, brackets on axle and tension spring)
- (3) Leveling Jack Swivel (spring-loaded locking pin)

b. XM1048 Trailer

(1) Fixed Lunette

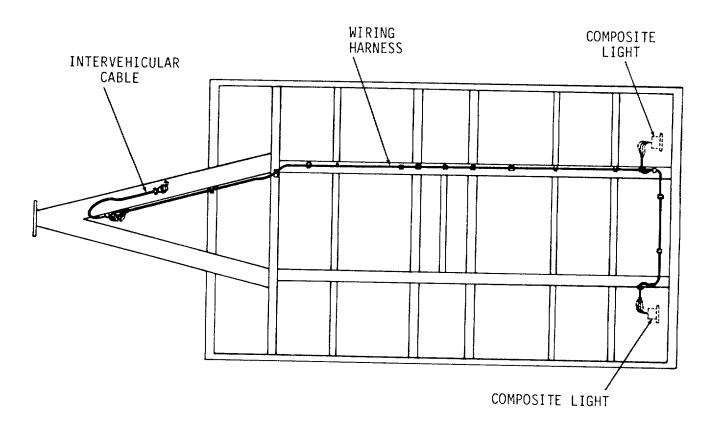
Model Designation:

- (2) Hand Brake (cable, brackets on axle and loop clamp)
- (3) Leveling Jack Swivel (screw type locking pin)

1-9. EQUIPMENT DATA.

Overall Trailer Length: 234.75 inches 234.75 inches Drawbar Length: 66 inches 66 inches Deck Height: 36 inches, loaded 36.5 inches, loaded 160 inches 160 inches Deck Length: Deck Width: 96 inches 96 inches Weight, Empty, Flatbed: 5, 760 pounds 5, 880 pounds Weight, Maximum **Cross-Country** Towed Load: 15, 760 pounds 18, 220 pounds

Change 1 1-7



TA 272430

Figure 1-5. Lighting System

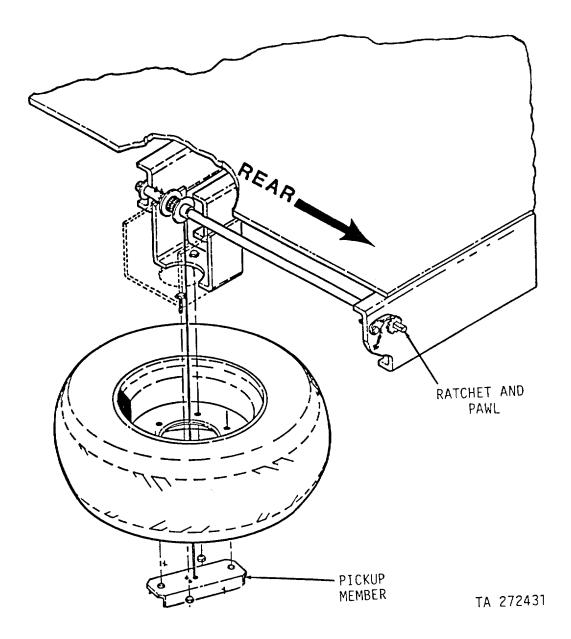


Figure 1-6. Spare Wheel Carrier,

Change 1 1-9

1-9. EQUIPMENT DATA-continued.

Maximum Towing Speed

Highway:50 mph50 mphUnimproved Road:25 mph25 mph

Suspension: Eidal CD-10, fixed multiple

fixed, multiple leaf flat leaf flat springs, tandem axle fixed, multiple leaf flat springs, tandem axle

Tires: 12-16.5 Hi-Miler, 12-16.5

12 Ply Rating All-Terrain 12 Ply

Rating

Eidal CD-10,

Tire Pressure

All Conditions: 45 PSI 75 PSI

Wheels: Eidal disc. Eidal disc.

16.5 x 9.75 6 hole 16.5 x 9.75 6 hole

Lunette: Height adjustable Height fixed

for 26-, 30-, or 36-inch military pintle height

Electrical System: 24 Vdc 24 Vdc

Air Brakes: 85-105 PSI 85-105 PSI

operating pressure operating pressure

Axles Manufacturer: Standard Forge Standard Forge

and Axle Co. and Axle Co.

Axle Capacity: 12, 700 pounds each 12, 700 pounds each

Brake Manufacturer: Standard Forge Standard Forge

and Axle Co. and Axle Co.

Brake Type: Air operated S-cam Air operated S-cam

CHAPTER 2

OPERATING INSTRUCTIONS

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

- **2-1. GENERAL.** This section describes those items that are used by the operator before, during and after operation of the flatbed trailers.
- **2-2. LIGHTING SYSTEM.** Intervehicular cable. The Intervehicular cable (fig. 1-5) is used to connect the trailer lighting system to the towing vehicle electrical system during towing operation. The cable plug is keyed so it can be connected to the receptacle on the towing vehicle in only one way.

2-3. BRAKE SYSTEM.

- <u>a. Intervehicular Air Hoses.</u> Two air hoses (fig. 1-3), tagged SERVICE and EMERGENCY, are mounted on the trailer drawbar. The service brakes are actuated through the service air hose. When the brake system air pressure falls below 100 psi, emergency brakes are actuated.
 - <u>b.</u> <u>Handbrakes</u>. There is a hand brake located on each side of the drawbar (fig. 1-1).

2-4. TOWING ATTACHMENTS.

- <u>a</u>. <u>Safety Chains</u>. Two safety chains (fig. 1-1) are mounted to the drawbar to prevent complete trailer breakaway if the towing vehicle pintle comes open.
- <u>b.</u> <u>Lunette.</u> The lunette on the XM1034 can be mounted in three different positions to adjust to towing vehicle pintle height in a 20-36 inch range. The lunette on the XM1048 cannot be adjusted (fig. 1-1).

2-5. MISCELLANEOUS COMPONENTS.

- <u>a.</u> Leveling Jacks. Manually operated jacks are installed at each corner of the trailer frame. They can be raised or lowered individually to level the trailer in all directions. The XM1034 has a spring loaded locking pin and the XM1048 has a screw type locking pin to lock the swivel in either vertical or horizontal position.
 - b. Spare Wheel Carrier. The spare wheel carrier is under the rear of deck.

Change 1 2-1

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

- **2-6. MAINTENANCE FORMS AND RECORDS.** Every mission begins and ends with the paperwork. There is not much of it, but you have to keep it up. The forms and records you fill out have several uses. They are a permanent record of the service, repairs, and modifications made on your vehicle. They are reports to organizational maintenance and to your Commander. And they are a check list for you when you want to know what is wrong with the vehicle after its last use, and whether those faults have been fixed. For the information you need on forms and records, see DA PAM 738-750.
- <u>a.</u> Do your Before (B) PREVENTIVE MAINTENANCE before operating the vehicle. Pay attention to the CAUTIONS and WARNINGS.
- <u>b.</u> Do your During (D) PREVENTIVE MAINTENANCE during operation. (During operation means to monitor the vehicle and its related components while they are actually being operated.)
 - c. Do your After (A) PREVENTIVE MAINTENANCE right after operating the vehicle.
 - d. Do your (W) PREVENTIVE MAINTENANCE weekly.
 - e. If something doesn't work, troubleshoot it with the instructions in this manual and notify your supervisor.
- <u>f.</u> Always do your PREVENTIVE MAINTENANCE in the same order so it gets to be a habit. Once you've had some practice, you'll spot anything wrong in a hurry.
- g. If anything looks wrong and you can't fix it, write it on your DA Form -2404. If you find something seriously wrong, report it to organizational maintenance RIGHT NOW.
- <u>h</u>. When you do your PREVENTIVE MAINTENANCE, take along the tools you need to make all the checks. You always need a rag or two.

WARNING

Dry cleaning solvent PD-680 (App. E, Item 2) used to clean parts is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138 degrees F (59 degrees C).

- (1) Keep it clean: Dirt, grease, oil and debris get in the way and may cover up a serious problem. Clean as you work and as needed. Use dry cleaning solvent (App. E, Item 2) on all metal surfaces. Use soap and water when you clean rubber or plastic material.
- (2) Bolts, nuts and screws: 'Check them all for obvious looseness, missing, bent or broken condition. You can't try them all with a tool, of course, but look for chipped paint, bare metal, or rust around bolt heads. If you find one you think is loose, tighten it or report it to organizational maintenance if you can't tighten it.

- (3) Welds: Look for loose or chipped paint, rust, or gaps where parts are welded together. If you find a bad weld, report it to organizational maintenance.
- (4) Electric wires and connector: Look for cracked or broken insulation, bare wires and loose or broken connectors. Tighten loose connectors and make sure the wires are in good condition.
- (5) Air hose lines: Look for wear, damage and leaks, and make sure clamps and fittings are tight. If a leak comes from a loose fitting or connector, tighten it. If something is broken or worn out, report it to organizational maintenance.

TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES

В	B - BEFORE					D-DURING A-AFTER W	-WEEKLY M-MONTHLY
ITEM	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED OR ADJUSTED	EQUIPMENT IS NOT READY OR AVAILABLE
NO.	В	D	Α	W	М	AS NEEDED	IF:
						NOTE	
						Perform weekly as well as before PMCS if:	
						a. You are the assigned operator but have not used the trailer since the last weekly check.	
						<u>b</u> . You are operating the trailer for the first time.	
1.						TIRES	
	•					 a. Check tires for obviously low pressure, deep cuts, foreign objects or unusual tread wear. 	One or more tires flat, missing or unserviceable
				•		<u>b.</u> Check tires, including spare, for correct pressure.	
						XM1034 XM1048 Highway 45 psi 75 psi Off Road 45 psi 75 psi	

TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES-continued

B - BEFORE D-DURING A-AFTER W-WEEKLY M-MONTHLY

ITEL:	II	INTERVAL				ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED,	EQUIPMENT IS NOT
ITEM NUMBER	В	D	Α	w	М	FILLED OR ADJUSTED AS NEEDED	READY OR AVAILABLE IF:
2.						<u>WHEELS</u>	
	•					Check wheels for damage, wheel nuts for looseness and presence.	Two or more lug nuts missing on one wheel.
3.						BRAKES	
	•					a. Inspect brake hose couplings (glad-hands) for security or damage.	Couplings missing, broken or damaged.
	•					b. Couple towing vehicle and air hose to trailer and check for leaks.	Air leaks are noted.
		•				c. Check for proper operation of brakes by engaging trailer brakes and attempt to pull the vehicle forward.	Brakes fail to operate.
4.						<u>LIGHTS</u>	
						NOTE	
						An assistant is required when checking brake lights.	
		•				 a. Inspect for damaged or missing reflectors and light assemblies. 	
			•			 b. If tactical situation permits, connect towing vehicle electrical cable to trailer and check lights for proper operation. 	

TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES-continued

B - BEFORE D-DURING A-AFTER W-WEEKLY M-MONTHLY

ITEM	INTERVAL			INTERVAL		ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED,	EQUIPMENT IS NOT
ITEM NUMBER	В	D	Α	w	М	FILLED OR ADJUSTED AS NEEDED	READY OR AVAILABLE IF:
5.						ELECTRICAL CONNECTIONS	
	•					a. Visually inspect connector body(fig. 1-5) for secure mounting or damage.	
	•					 b. Inspect for corroded, bent, burnt or broken pins. 	
	•					 c. Inspect insulator for signs of deterioration or arcing. 	
6.						AIR RESERVOIR	
	•					a. Close air reservoir drain cock(fig. 1-3).	
	•					 b. Inspect air reservoir for damage and evidence of leakage. 	Air leaks are noted.
						c. Open drain cock.	
7.						SPRINGS AND SUSPENSION	
	•					Inspect springs and suspension for looseness, damaged, broken or missing components.	Damaged, loose, broken or missing components are evident.
8.	•					LEVELING JACKS Check leveling jacks for proper operation or missing components.	Leveling jacks not operative or complete.
						2-5	

M-MONTHLY

TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES-continued

A-AFTER

W-WEEKLY

ITEM NUMBER	INTERVAL B D A W M						М	ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY OR AVAILABLE IF:
9.					UNUSUAL NOISES				
		•			Be alert for unusual or excessive noises that may indicate damaged or loose parts or insufficient lubrication.				

Section III. OPERATION UNDER USUAL CONDITIONS

2-7. COUPLING PROCEDURES. The following procedures should be followed when preparing the trailer for movement.

NOTE These instructions apply to both the XM1034 and XM1048.

WARNING

Do not stand between towing vehicle and trailer when backing towing vehicle. Serious injury can result if personnel are caught between the vehicles.

- <u>a.</u> Set hand brakes (fig. 1-1) by pulling to the front and block wheels to prepare trailer for coupling to the towing vehicle.
- <u>b.</u> On towing vehicle, remove cotter pin from pintle and open pintle (fig. 2-1). Back towing vehicle until pintle is close to trailer lunette.
- <u>c.</u> Adjust lunette height by raising or lowering (with use of hand cranks) front leveling jacks until lunette is centered in pintle opening (fig. 2-1). Back towing vehicle until lunette is in pintle. Lower front leveling jacks to lower lunette into pintle. Close pintle and lock it with cotter pin.
 - <u>d.</u> Cross safety chains (fig. 1-1) and attach to towing vehicle.

D-DURING

B-BEFORE

e. Connect Intervehicular air hoses (fig. 1-3) to towing vehicle as follows:

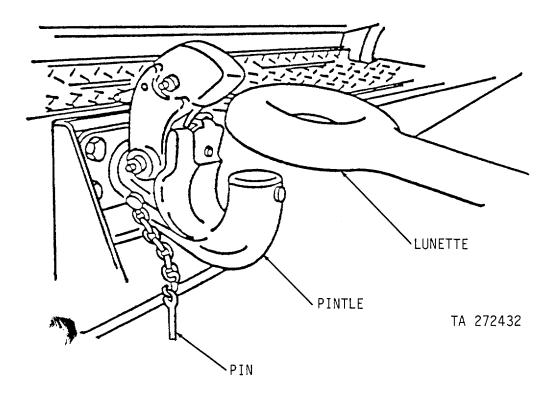


Figure 2-1. Trailer Hookup to Towing Vehicle

NOTE

Ensure SERVICE and EMERGENCY air hoses are connected SERVICE to SERVICE and EMERGENCY to EMERGENCY on towing vehicle.

- (1) Remove trailer hose couplings (glad hands) from dummy couplings.
- (2) Hold trailer hose couplings against towing vehicle hose couplings at a 90 degree angle and rotate until locked in place.
 - <u>f.</u> Connect trailer lighting system to electrical system of towing vehicle as follows:
 - (1) Open protective cover of intervehicular cable (fig. 1-5). Lock cover of cable by sliding latch lock in place.
 - (2) Plug cable into towing vehicle receptacle. Cable plug is keyed so connection can be made only one way.
 - g. Turn handcranks on all four leveling jacks (fig. 2-2) to fully retract legs.

NOTE

The locking pin on the swivel of the XM1034 is a spring loaded pull pin. The locking pin on the XM1048 is a screw type pin requiring the use of the hand crank (turn hand crank until it stops) to disengage and engage.

- <u>h.</u> Disengage the lock pins (fig. 2-2) and manually raise each jack to the horizontal (stowed) position with pad facing trailer wheel. Reengage lock pin and ensure that jack is locked in horizontal position.
 - i. Return each leveling jack hand crank to its stowed position.

2-8. PRE-TOWING INSTRUCTIONS.

- <u>a.</u> The Service Brakes are operated by the towing vehicle's service brakes. Apply towing vehicle brakes. Observe trailer brake chamber pistons for proper movement (piston pushes slack adjuster away from chamber).
 - b. Electrical System.
 - (1) Operate the towing vehicle's service brakes. Check composite lights for brake lamp operation.
 - (2) Operate the towing vehicle's turn signal lever. Check that the left and right composite light turn signals work.
 - (3) Operate the towing vehicle's service lights. Check that the composite light service lamps work.

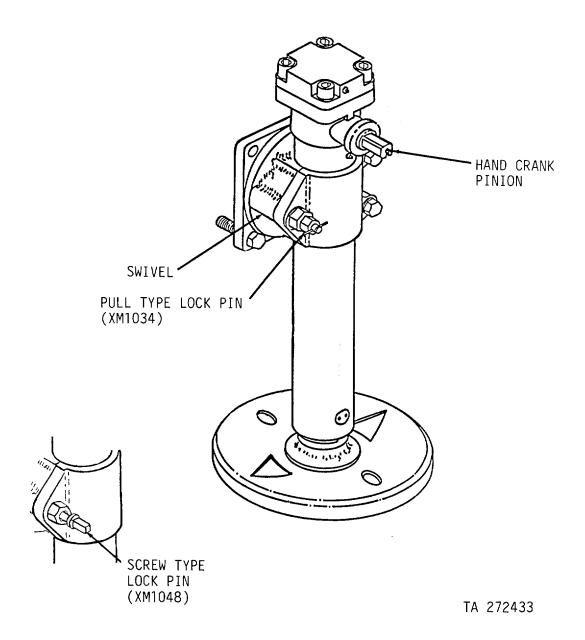


Figure 2-2. Leveling Jack and Swivel

- c. Observe load for balance and secureness of mounting.
- d. Release both handbrakes (by moving to rear) and remove any wheel blocking.
- **2-9. TOWING INSTRUCTIONS.** The driver of the towing vehicle must be experienced in towing 5 or 6 ton 4-wheeled trailers. Ordinary vehicle handling procedures and cautions govern movement of the unit.
 - a. Maximum Safe Towing Speeds.
 - (1) Highway -- 50 mph.
 - (2) Unimproved road -- 25 mph.

NOTE

Maximum speed limit must be lowered for wet, icy or snow covered roadways.

- <u>b.</u> <u>Driving.</u> When driving the towing vehicle with the trailer, the overall length of the unit must be kept in mind when passing other vehicles and when turning.
- <u>c.</u> <u>Turning</u>. When turning corners, allow for the fact that the trailer wheels turn inside the turning radius of the towing vehicle. To make a right turn at a road intersection, drive the towing vehicle about halfway into the intersection and then cut sharply to the right. This will allow for the shorter turning radius of the trailer and will keep it off the curb.
- d. Braking. In normal operations, the brakes of the towing vehicle and trailer are applied at the same time when you step on the brake pedal. Brake pressure must be applied gradually and smoothly. Trailer brakes may be applied separately by using the brake control lever on the towing vehicle if so equipped. On steep downgrades or slippery surfaces, the trailer brakes must be applied before the towing vehicle brakes. This will reduce the possibility of jackknifing.
- <u>e.</u> <u>Parking.</u> Normally, the towing vehicle brakes will provide adequate control of the trailer when stopped temporarily. When the towing vehicle and trailer are to be parked and left unattended, set the towing vehicle and trailer hand brakes. If the vehicles are parked on a hill, the wheels of the trailer should be blocked to preclude movement.
- f. <u>Backing.</u> When backing, the rear of the trailer will always move in the opposite direction of that in which the front wheels are turned. When the wheels of the towing vehicle are turned to the right, the rear of the trailer will go to the left. When the trailer has turned and backing in a straight line is required, turn the towing vehicle wheels in the direction that the trailer is moving. This will slowly bring the towing vehicle and trailer into a straight line.
- **2-10. SITE REQUIREMENTS**. The trailer can be positioned as needed with practically no limitations. The selected site should be fairly level and make maximum use of natural protective barriers while allowing enough space on all sides for service and maintenance.

The soil of the site should be firm and well drained. In areas where the soil will not support the trailer, use planks or other suitable material as dunnage. The selected site must provide for access to the unit by towing.

2-11. SHELTER REQUIREMENTS. The trailer requires no sheltering during movement or operation. However, when parked for long periods of time, consideration should be given to sheltering the unit from extreme sunlight, humidity, blowing sand, etc., which can be detrimental to the tires, paint, and metal portions of the trailer. For operator/crew and organizational maintenance, no shelter provisions are required. For direct support maintenance, normal automotive repair facilities must be provided. Maintenance of the trailer will require a work space of approximately 24 feet by 30 feet.

2-12. UNCOUPLING PROCEDURES.

- <u>a.</u> Set both hand brakes (fig. 1-1) by pulling them toward the front of the drawbar. (Parking brakes can be set more easily if the service brakes are applied). Block wheels, front and back.
- <u>b</u>. Lower the four leveling jacks (fig. 2-2) by pulling out (XM1034) or turning (XM1048) the lock pins and manually lowering them to the vertical position. Reinsert the lock pins to lock the jacks in the vertical position.
- c. Using the hand cranks, lower each of the two rear leveling jack pads. Stop the rear jack pads approximately two inches above the ground.

WARNING

Wear protective goggles when opening drain cock and avoid air blast or eye injury may occur.

- <u>d.</u> Close air valve on towing vehicle and open drain cock on trailer air reservoir (fig. 1-3). Disconnect the Service and Emergency air hoses from the towing vehicle. Connect the hoses to the dummy couplings on the underside of the drawbar.
- e. Disconnect the intervehicular power cable from the towing vehicle, close cover and stow plug in the clip on the drawbar.
 - f. Unhook safety chains from towing vehicle and hook to drawbar handles.
 - g. Lower each of the two front jack pads to the ground using the hand cranks. Open pintle.
- <u>h.</u> Using the two front leveling jacks, raise the trailer sufficiently to release the lunette from the pintle on the towing vehicle. Move towing vehicle clear of the trailer.

<u>i.</u> Using all four leveling jacks, as required, level the trailer deck by raising or lowering jacks to bring the trailer deck to an approximately level, stable position. When trailer is level, return cranks to their stowage position.

2-13. SPARE TIRE CARRIER OPERATION.

WARNING

Wheel and tire assembly weighs approximately 150 pounds. Two persons are required to lift and handle the wheel.

- a. Remove two nuts holding the wheel to the carrier bracket. Use the socket wrench stored in trailer tool box.
- <u>b.</u> Attach hand crank (stowed in clips on leveling jack bracket) to shaft end and rotate clockwise to release pressure on pawl (fig. 1-6). Lift pawl clear of ratchet.
 - c. Lower wheel to ground by rotating hand crank counterclockwise.
 - d. Remove wheel support through hole in wheel.
 - e. Replace wheel in reverse order of this procedure.
 - f. Stow hand crank in clips on leveling jack bracket.

Section IV. OPERATION UNDER UNUSUAL CONDITIONS.

2-14. SPECIAL OPERATING PROCEDURES.

- <u>a.</u> Extreme Cold Weather Conditions. Be careful when placing the trailer in motion after a shutdown. Congealed lubricants can cause part failure. Tires may be frozen to the ground. If tires were under-inflated, they may have flat spots. If brake shoes are frozen to the brake drums, use a torch to heat drums. Refer to FM 9-207 and FM 21-305 for special instructions on driving hazards that may be encountered during extreme cold weather conditions.
- <u>b.</u> Extreme <u>Hot Weather Conditions.</u> Do not park the trailer in the sun for long periods of time as the heat and sunlight will shorten the life of the tires and lead to deterioration of painted surfaces. If possible, park the trailer under cover to protect it from sun, sand and dust. Cover inactive trailer with tarpaulins if no other suitable shelter is available. Metal parts of the trailer, inactive for long periods in hot, humid weather, are subject to rapid rusting and accumulation of fungi growth. Frequently inspect, clean, and lubricate to prevent excessive deterioration.

c. Operation on Unusual Terrain.

(1) Operation under extremely sandy conditions necessitates frequent inspection, cleaning and lubrication of the chassis working parts.

Change 1 2-12

- (2) When moving the trailer over rough or rocky ground, care must be exercised by the towing vehicle driver to minimize the shock transmitted to the trailer. Correct tire pressure (45 psi XM1034, 75 psi XM1048) must be maintained to preclude damage to the trailer and tires.
- (3) After operation on unusual terrain, remove ice, snow, mud, etc., from underneath trailer structure and from hoses, tubes, and electrical connections.

2-13/(2-14 blank)

CHAPTER 3

OPERATOR MAINTENANCE

Section I. LUBRICATION INSTRUCTIONS

3-1. LUBRICATION INSTRUCTIONS.

NOTE

These instructions are mandatory.

- <u>a.</u> <u>General.</u> Keep all lubricants in closed containers and store in a clean, dry place away from external heat. Keep container covers clean and allow no dust, dirt, or other foreign material to mix with the lubricants. Keep all lubrication equipment clean and ready for use.
- <u>b.</u> <u>Cleaning.</u> Keep all external parts not requiring lubrication, free of lubricants. Before lubricating the equipment, wipe all lubrication points free of dirt or grease. Clean all lubrication points after servicing to prevent accumulation of foreign material.
- <u>c.</u> <u>Lubrication Points</u>. Service the lubrication points at the proper interval as specified in the lubrication chart. The intervals specified are based on operation under normal conditions. Modifications of the recommended interval s may be required under unusual operating conditions.

3-2. LUBRICATION CHART.

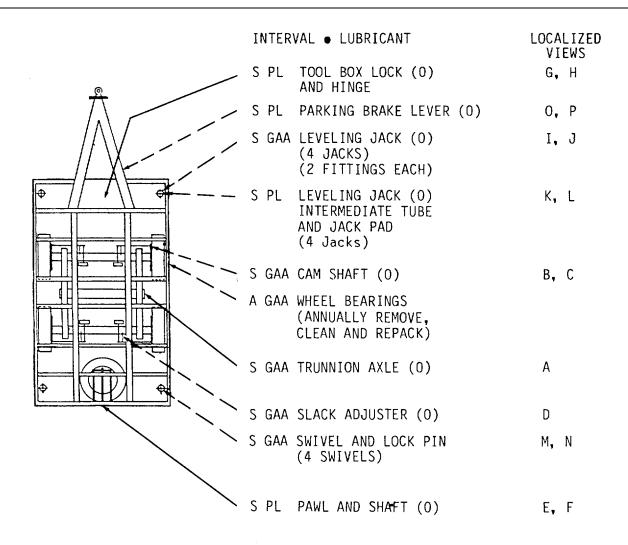
- a. For lubrication under normal conditions, refer to lubrication chart (fig. 3-1).
- b. For lubrication below temperatures of 0 degrees F (-18 degrees C) refer to FM9-207.
- c. For lubrication before and after fording, refer to TM 9-238.
- <u>d.</u> After operation in dusty or sandy conditions, clean and inspect all lubrication points. Lubricate the trailer in accordance with the lubrication chart.

LUBRICATION CHART

TRAILER, 5 TON, 4-WHEEL, XM1034 TRAILER, 6 TON, 4-WHEEL, XM1048

Intervals are based on normal operation. The time specified is the time required to perform all services for that particular interval. Reduce to compensate for abnormal operation, severe conditions or contaminated lubricants. During inactive periods intervals may be extended commensurate with adequate preservation.

Level of maintenance for lubrication requirements is indicated at note reference by (C) for Crew/Operator, and (0) for Organizational Maintenance. Lubricate after water operation. Clean fittings before lubricating. Clean parts with SOLVENT Dry Cleaning PD-680 (SD-II). Dry before lubricating. Lubricate dotted arrow points on both sides of equipment.



TA 272434

Figure 3-1. Lubrication Chart (Sheet 1 of 3)

KEY

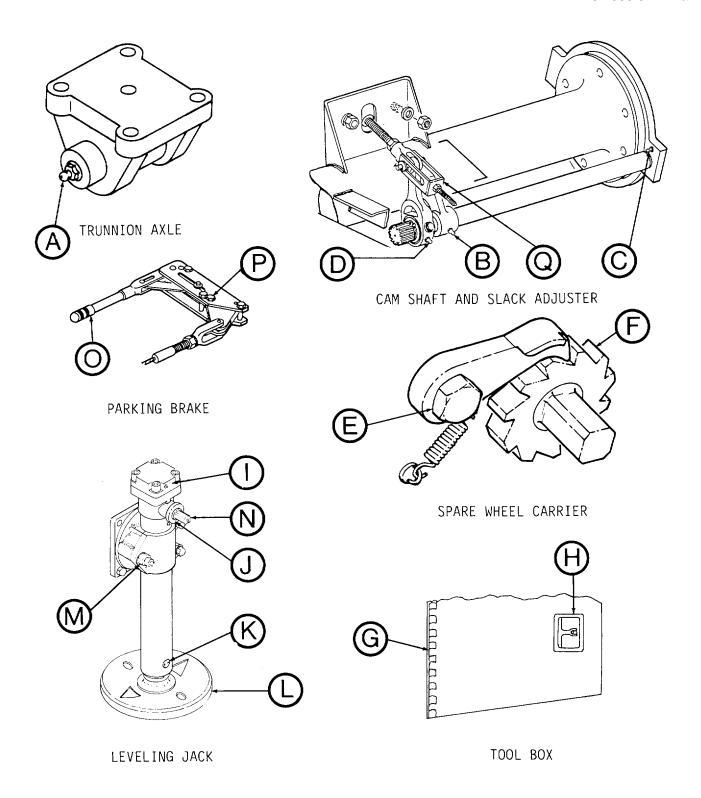
LUDDIGANTO	EXPE	CTED TEMPERA	TURES	C &	INTERVALS
LUBRICANTS	above +32°F	+40°F -10°F ()°F to -65°	operation FM9-207	
PL - Lubricating oil, general purpose	PL (Medium)	PL (Special)	PL (Special)	tic oper to FMS	S - Semi- annual)
GAA - Grease, automotive and artillery	GAA	GAA	GAA	or arctic refer to	A - Annual

- 1. LUBRICATION OIL POINTS Lubricate as required, handbrake lever and adjustment shaft (O, P), tool box hinge and latch (G, H), spare wheel carrier pawl and shaft (E, F), handbrake slotted clevis (Q).
- 2. DO NOT LUBRICATE Springs.
- 3. Apply light coat of grease to leveling jack inner lower leg.

TOTAL MAN-HR						
INTERVAL	MAN-HR					
S	0.7					
Α	2.0					

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Figure 3-1. Lubrication Chart (Sheet 2 of 3)



LOCALIZED VIEWS

Figure 3-1. Lubrication Chart (Sheet 3 of 3)

Section II. OPERATOR TROUBLESHOOTING INSTRUCTIONS

3-3. GENERAL.

- a. Table 3-1 lists the common malfunctions which you may find during the operation or maintenance of the trailer or its components. You should perform the test or inspection and corrective action in the order listed.
- <u>b.</u> This manual cannot list all the malfunctions that might occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or it is not corrected by the listed corrective actions, notify your supervisor.

3-4. SYMPTOM INDEX.

		Page Number
1.	Taillights will not light	3-5
2.	One or more lights will not work	3-6
3.	Dim or flickering lights	3-6
4.	Parking brakes will not hold	3-7
5.	Parking brakes will not fully release	3-7
6.	Brakes will not release	3-8
7.	No brakes or weak brakes	3-8
8.	Slow application or release of brakes	3-9
9.	Grabbing Brakes	3-9
10.	Brakes drag	3-9
11.	Abnormal tire wear	3-10

3-5. TROUBLESHOOTING TABLE.

TABLE 3-1. OPERATOR TROUBLESHOOTING TABLE

Malfunction

Test or Inspection

Corrective Action

ELECTRICAL SYSTEM

1. TAILLIGHTS WILL NOT LIGHT.

- Step 1. Check setting and operation of towing vehicle light switches.
 - a. If towing vehicle lights do not light, notify organizational maintenance.
 - b. If towing vehicle lights do light, proceed to Step 2.
- Step 2. Check intervehicular cable.
 - a. If cable is not properly connected, pull plug out and reinsert fully into receptacle.

TABLE 3-1. OPERATOR TROUBLESHOOTING TABLE-continued

Malfunction

Test or Inspection

Corrective Action

- b. If cable is connected properly, proceed to Step 3.
- Step 3. Check intervehicular cable connectors for dirty, corroded, or damaged pins.
 - a. If connector pins are dirty or corroded, clean the pins (para. 3-6).
 - b. If connector pins are damaged, notify organizational maintenance.
 - c. If the above steps do not correct the malfunction, notify organizational maintenance.
- 2. ONE OR MORE LIGHTS (BUT NOT ALL) WILL NOT LIGHT.
 - Step 1. Check composite light assembly for defects or damage.
 - a. If light assembly is defective or damaged, notify organizational maintenance.
 - <u>b.</u> If composite light assembly does not appear to be damaged, and malfunction still exists, notify organizational maintenance.
 - Step 2. Check wiring harness and taillight connectors for proper connection.
 - a. If wiring harness and taillight connectors are improperly connected, reconnect.
 - b. If connections are correct, notify organizational maintenance.
- 3. DIM OR FLICKERING LIGHTS.
 - Step 1. Check for loose, dirty, or corroded terminals at taillight wiring harness (fig. 1-5).
 - <u>a.</u> If taillight wiring harness terminals are loose, dirty, or corroded, clean terminals and reconnect.
 - b. If taillight wiring harness terminals are clean and intact, proceed to Step 2.
 - Step 2. Check for loose, dirty, or corroded terminals at composite light assembly.

TABLE 3-1. OPERATOR TROUBLESHOOTING TABLE-continued

Malfunction

Test or Inspection

Corrective Action

- a. If composite light assembly terminal is loose, dirty, or corroded, clean and reconnect.
- b. If composite light assembly terminal is clean and intact, proceed to Step 3.
- Step 3. Check composite light assembly for defect or damage.
 - a. If composite light assembly is defective, or damaged, notify organizational maintenance.
 - b. If light assemblies are intact proceed to Step 4.
- Step 4. Check intervehicular cable connector for dirty or corroded pins.
 - a. If cable connector pins are dirty or corroded, clean connector pins (para. 3-6).
 - <u>b.</u> If any of the above steps fail to correct the malfunction, notify organizational maintenance.

HAND BRAKE SYSTEM

4. HAND BRAKES WILL NOT HOLD TRAILER.

Check hand brake cable for too much slack.

- <u>a.</u> Take up slack in cable by rotating knob on end of lever in clockwise direction.
- <u>b.</u> If hand brake still fails to hold trailer, notify organizational maintenance.

5. HAND BRAKES WILL NOT FULLY RELEASE.

Check brake lever or slack adjuster on axle for defects or damage.

If defects or damage is visible on lever or assembly on axle, notify organizational maintenance.

Test or Inspection

Corrective Action

AIR BRAKE SYSTEM

6. BRAKES WILL NOT RELEASE.

- Step 1. Check connection of air hoses between towing vehicle and trailer.
 - <u>a.</u> If air hoses are not properly connected, (Emergency to Emergency, Service to Service), shut off towing vehicle air supply, disconnect air hoses, and reconnect.
 - b. If air hoses are connected properly, proceed to Step 2.
- Step 2. Check for moisture in air system.

WARNING

Wear protective goggles when operating drain cock and avoid air blast or eye injury may occur.

- a. Open drain cock on reservoir and bleed moisture from system.
- b. If no moisture is present, and malfunction still exists, notify organizational maintenance.

7. NO BRAKES OR WEAK BRAKES.

- Step 1. Check shut-off valve on towing vehicle.
 - <u>a.</u> If shut-off valve on towing vehicle is off, open shut-off valve.
 - b. If shut-off valve on towing vehicle is open, then proceed to Step 2.
- Step 2. Check air pressure gage on towing vehicle.
 - a. If air pressure gage indicates low air pressure, check that drain cock on air reservoir is closed.
 - <u>b.</u> If drain cock on reservoir is closed, and air pressure gage indicates proper amount of pressure in air system, proceed to Step 3.

Test or Inspection

Corrective Action

- Step 3. Check connection of air hoses from trailer to towing vehicle.
 - <u>a.</u> If air hoses are not properly connected (Emergency to Emergency, Service to Service) shut off towing vehicle air supply at towing vehicle shut-off valve, disconnect air hoses, and properly reconnect.
 - <u>b.</u> If air hoses are properly connected and malfunction still exists, notify organizational maintenance as towing vehicle air filter may be clogged or brakes may be out of adjustment.
- 8. SLOW APPLICATION OR SLOW RELEASE OF BRAKES.

Check air pressure gage on towing vehicle.

- a. If pressure is low, check that drain cock on air reservoir is closed.
- <u>b.</u> If air reservoir drain cock is closed, and pressure is low, notify organizational maintenance of possible clogged air filter on towing vehicle.
- 9. GRABBING BRAKES.

WARNING

Wear protective goggles when operating drain cock and avoid air blast or eye injury may occur. Check for moisture in air tank by opening drain cock.

- a. If moisture is in tank, allow to drain.
- <u>b.</u> If tank is dry and malfunction still exists, notify organizational maintenance as brakes may be out of adjustment.
- 10. BRAKES DRAG.

Check parking brake for proper release.

- a. If parking brake does not fully release, see Malfunction 5 above for corrective action.
- <u>b.</u> If the above procedure fails to correct malfunction, notify organizational maintenance as brakes may be out of adjustment.

Test or Inspection

Corrective Action

TIRES

11. ABNORMAL TIRE WEAR.

- Step 1. Check tire pressure.
 - a. If tire pressure is less than 45 psi XM1034 or 75 psi XM1048, inflate tires to correct pressure.
 - b. If tire pressure is correct psi, proceed to Step 2.
- Step 2. Check for loose, cracked, bent or broken rim or wheel.
 - a. If wheel stud nuts are loose, tighten nuts.
 - <u>b.</u> If wheel or rim is cracked or broken, notify organizational maintenance to replace wheel or rim.
 - c. If wheel or rim is secure and not cracked or broken, proceed to Step 3.
- Step 3. Check suspension system for damaged rubber bumpers, springs, and loose or missing bolts and nuts.
 - <u>a.</u> If suspension system is damaged or has loose or missing bolts and nuts, notify organizational maintenance.
 - <u>b.</u> If suspension system is not damaged and all hardware is complete and secure and malfunction still exists, notify organizational maintenance.

Section III. OPERATOR/CREW MAINTENANCE

Operator/Crew maintenance of the trailer unit is restricted to performing cleaning of electrical connectors, changing a flat tire and operator crew PMCS (Table 2-1) and troubleshooting (Table 3-1).

3-6. CLEANING ELECTRICAL CONNECTORS.

Remove any buildup of dirt or grease from the electrical connectors with a soft cloth (App. E, item 6).

NOTE

If this cleaning is inadequate, refer to organizational maintenance.

3-7. WHEEL AND TIRE REPLACEMENT.

WARNING

Wheel and tire assembly weighs approximately 150 pounds. Two persons are required to lift and handle wheel.

NOTE

Tools for wheel change are in tool box on draw bar.

- a. Apply hand brakes and block wheels on opposite side.
- b. Place towing vehicle jack under axle between "U" Bolts of the wheel to be removed.
- c. With the jack supporting the axle but before the tire is off the ground, loosen the cap nuts.
- d. Raise tire about two inches above ground and remove cap nuts and wheel.

NOTE

Cap nuts on drivers side turn clockwise to loosen. Curb side cap nuts turn counterclockwise to loosen. Studs are stamped "L" and "R".

e. Reinstall wheel in reverse order. Have organizational maintenance torque cap nuts to 450-500 lb-ft at first opportunity.

NOTE

The spare wheel and tire is stowed in the spare tire carrier beneath the rear of the trailer frame. Refer to para. 2-13, Spare Tire Carrier Operation.

Change 1 3-11/(3-12 blank)

CHAPTER 4

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

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

- **4-1. COMMON TOOLS AND EQUIPMENT.** For authorized common tools and equipment, refer to the Table of Organization and Equipment (TOE) or the Modified Table of Organization and Equipment (MTOE) applicable to your unit.
- **4-2. SPECIAL TOOLS, TMDE AND SUPPORT EQUIPMENT.** No special tools, TMDE, or support equipment are required to maintain these trailers.
- **4-3. REPAIR PARTS.** Repair parts are listed and illustrated in Appendix F of this manual.

Section II. SERVICE UPON RECEIPT OF MATERIAL

4-4. UNPACKING.

- <u>Banding and Tiedowns</u>. Remove all banding and movement tiedown straps from the equipment.
- b. Protective Coverings.
- (1) Remove all tarpaulins, plastic sheeting, etc., used as protective covering for the equipment during shipping.

WARNING

Dry cleaning solvent (App. E, Item 2) used to clean parts is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of dry cleaning solvent is 138 degrees F (59 degrees C).

(2) If any exterior parts are coated with rust preventive compound, remove it with dry cleaning solvent (App. E, Item 2).

4-5. CHECKING UNPACKED EQUIPMENT.

<u>a.</u> <u>Damage Inspection.</u> Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on DD Form 6.

<u>b.</u> <u>Discrepancies.</u> Check the equipment against the component listing in Appendix C, and the packing slip to determine if the shipment is complete. Report all discrepancies in accordance with DA PAM 738-750(TAMMS). The equipment may be placed in service even though a minor assembly or part that does not affect proper functioning is missing.

4-6. SERVICING THE EQUIPMENT.

- a. Perform the Preventive Maintenance Checks and Services (PMCS) contained in Table 4-1.
- b. Lubricate all points as shown in the Lubrication Chart (fig. 3-1) regardless of interval.
- c. Schedule the next preventive maintenance checks and services on DD Form 314, Preventive Maintenance Schedule and Record.
- <u>d.</u> Report all deficiencies on DA Form 2404. If the deficiencies appear to involve unsatisfactory design, submit an SF 368 (Quality Deficiency Report, see para. 1-4).
 - e. Perform a break-in road test of 25 miles at a maximum speed of 50 miles per hour.

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

4-7. GENERAL. To ensure that the trailer is ready for operation at all times, it must be inspected systematically so that defects may be discovered and corrected before they result in serious damage or failure. Table 4-1 contains a tabulated listing of preventive maintenance checks and services to be performed by organizational maintenance personnel. All deficiencies and shortcomings will be recorded as well as the corrective actions taken on DA Form 2404 at the earliest possible opportunity.

4-8. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES.

- <u>a.</u> The item numbers of Table 4-1 indicate the sequence of the PMCS. Perform at the intervals shown below:
 - (1) Do your quarterly (Q) PREVENTIVE MAINTENANCE once each 3 months.
 - (2) Do your semiannual (S) PREVENTIVE MAINTENANCE once each 6 months.
 - (3) Do your annual (A) PREVENTIVE MAINTENANCE once each year.
- b. If something doesn't work, troubleshoot it with the instructions in this manual or notify your supervisor.
- <u>c.</u> Always do your preventive maintenance in the same order, so it gets to be a habit. Once you've had some practice, you'll spot anything wrong in a hurry.

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

Keep it clean: Dirt, grease, oil and debris only get in the way and may cover up a serious problem. Clean as you work and as needed. Use dry cleaning solvent (PD-680) (App. E, Item 2) to clean metal surfaces. Use soap when you clean rubber or plastic materiel.

TABLE 4-1 ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES

ITEM	INTERVAL			ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED,			
NO. Q S A		Α	REPLACED, OR ADJUSTED AS NEEDED				
				NOTE			
				Perform operator/crew PMCS prior to or in conjunction with organizational PMCS if:			
				 a. There is a delay between the daily operation of the equipment and the organizational PMCS. 			
				b. Regular operator is not assisting/participating.			
1	•			VEHICLE EQUIPMENT Inspect towing/air line couplings for damaged or loose connections. Repair or replace as required.			
2				WHEEL BEARINGS			
			•	Clean wheel bearings and repack in accordance with lubrication chart (fig. 3-1).			
3				<u>BRAKES</u>			
	•			a. Adjust brakes (para. 4-18).			
			•	b. Inspect brake linings for wear and replace brake shoes (para. 4-19).			
			•	 <u>c.</u> Check all air lines for leaks, bends and cracks. Check mounting clamps for security. Replace defective components as required. 			
			•	d. Remove air filter element (para. 4-24).			

TABLE 4-1 ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES-continued

Q - QUARTERLY				S - SEMIANNUALLY	A - ANNUALLY	
ITEM	INTERVAL			ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED,		
NO.	Q	S	Α	REPLACED, OR ADJUSTED AS NEEDED		
4				TIRES AND WHEELS		
				 a. Rotate and match tires to tread design and degre extended tire life. 	e of wear to ensure safety and	
				b. Re-torque lug nuts to 450-500 lb-ft.		
5				ROAD TEST Perform road test and be alert for unusual noises that may several stops noting any side pull, noise or other unusual composes from towing vehicle and note if trailer brakes apply.		

Section IV. ORGANIZATIONAL TROUBLESHOOTING PROCEDURES

- **4-9. SCOPE.** This section contains troubleshooting information and tests for locating and correcting some of the troubles which may develop in the trailer. Each symptom of trouble or malfunction given for an individual unit or system is followed by a list or probable causes of trouble and corrective actions to remedy the situation.
- <u>a.</u> Troubleshooting consists of isolating the system in which the trouble occurs and then locating the defective component. Use all senses to observe and to locate trouble. Make use of testing devices and tools identified in the Maintenance Allocation Chart, Appendix B, of this manual, to assist in the location of the faulty item. Standard automotive maintenance practices and principles of operation apply to troubleshooting the trailer.
- <u>b.</u> The tests and corrective actions provided in Table 4-2 are governed by the scope of the organizational level of maintenance. Any repair which is beyond the authorized scope of organizational maintenance shall be referred to direct support maintenance for accomplishment.

Page Number

4-10. SYMPTOM INDEX.

1.	All lamps do not light	4-5
2.	One or more lamps (but not all) will not light	4-6
3.	Dim o¥ flickering lights	4-6
4.	Brakes will not release	4-6
5.	No brakes or weak brakes	4-7
6.	Slow brake application or slow release	4-8
7.	Grabbing brakes	4-8
8.	Hard pulling (one or more brake drums running hot)	4-9
9.	Excessively worn, scuffed tires, or flat spots on tires	4-10
10.	Improper spring action	4-10
11.	Improper of stiff operation of swivels	4-10

4-11. ORGANIZATIONAL TROUBLESHOOTING TABLE.

- <u>a.</u> Table 4-2 lists the common malfunctions which may be found during operation or maintenance of the trailer. You should perform the test, inspection and corrective action in the order listed.
- <u>b.</u> This manual cannot list all malfunctions that may occur, nor all test or inspections and corrective actions. If a malfunction is not listed or it is not corrected by the listed corrective action, notify your supervisor.

TABLE 4-2 ORGANIZATIONAL TROUBLESHOOTING TABLE

Malfunction

Test or Inspection

Corrective Action

1. ALL LAMPS DO NOT LIGHT

- Step 1. Check intervehicular cable
 - a. If cable is defective, replace cable (para. 4-14).
 - b. If cable is not defective, proceed to step 2.
- Step 2. Check for ground or open circuit in wiring (para. 4-15).

Test or Inspection

Corrective Action

- 2. ONE OR MORE LAMPS (BUT NOT ALL) WILL NOT LIGHT.
 - Step 1. Dirty or corroded light socket.

Remove light bulb and clean socket.

- Step 2. Check for defective light assemblies.
 - a. Replace defective light assemblies (para. 4-12).
 - b. If light is not damaged, proceed to step 3.
- Step 3. Check for ground or open circuit in wiring (para. 4-15).

If wiring has a ground or open circuit, repair or replace wiring.

- 3. DIM OR FLICKERING LIGHTS.
 - Step 1. Check for defective light assemblies.
 - <u>a.</u> Replace or repair defective light assemblies (para. 4-12).
 - b. If light assemblies are not defective, proceed to step 2.
 - Step 2. Check for intermittent ground or open circuit (para. 4-15).

If wiring is defective, repair or replace wiring.

- 4. BRAKES WILL NOT RELEASE.
 - Step 1. Check operation of air brake chambers as well as proper lubrication.
 - <u>a.</u> If one air brake chamber does not release, repair or replace defective brake chamber (para.4-25).
 - b. If all air brake chambers do not release, proceed to step 2.
 - Step 2. Check operation of hand brake.
 - a. If hand brake does not operate, replace hand brake (para.4-17).
 - **b.** If replacing hand brake does not correct the defect, proceed to step 3.

Test or Inspection

Corrective Action

Step 3. Check intervehicular hose coupling for wear or damage. Replace damaged hose coupling (para. 4-22).

5. NO BRAKES OR WEAK BRAKES.

- Step 1. Check for low air pressure (leakage at all air line connections, air lines or emergency relay valve).
 - a. If air lines/connections are leaking, repair or replace as needed.
 - <u>b.</u> If emergency relay valve is leaking, replace defective valve (para. 4-27).
 - c. If air lines connections or valves are not leaking, proceed to step 2.
- Step 2. Inspect for grease on brake linings.
 - a. If grease is present on brake linings replace defective oil seals and brake shoes (para. 4-19).
 - b. If grease is not present on brake lining, proceed to step 3.
- Step 3. Check for worn brake lining.
 - a. If brake lining is worn, replace brake shoe (para. 4-19).
 - b. If brake lining is not worn, proceed to step 4.
- Step 4. Check brake adjustment.
 - a. Adjust brake shoes if out of adjustment (para. 4-18).
 - b. If brakes are adjusted, proceed to step 5.
- Step 5. Check for relay valve operation by observing action of air brake chambers.
 - a. If air brake chambers do not operate, replace relay valve (para. 4-27).
 - <u>b.</u> If a single air brake chamber does not operate properly, repair or replace brake chamber (para. 4-25).

Test or Inspection

Corrective Action

Step 6. Check for clogged filter. Service air filter (para. 4-24).

6. SLOW BRAKE APPLICATION OR SLOW RELEASE.

- Step 1. Check for low air pressure (leakage at connections, air lines or valves).
 - <u>a.</u> If air lines/connections are leaking, repair or replace as needed (para. 4-22).
 - b. If emergency relay valve is leaking, replace defective valve (para. 4-27).
 - c. If air lines/connections and valves are not leaking, proceed to step 2.
- Step 2. Check for restrictions in air lines and hoses.
 - a. If air lines or hoses are restricted, replace as required.
 - b. If air lines or hoses are not restricted, proceed to step 3.
- Step 3. Check for damaged or broken brake shoe springs.
 - <u>a.</u> If spring is defective, replace spring (para. 4-19).
 - b. If any spring is not defective, proceed to step 4.
- Step 4. Check for air brake chamber operation.
 - a. If one air brake chamber operates slowly, repair or replace defective brake chamber (para. 4-25).
 - b. If all air brake chambers operate slowly, replace emergency relay valve (para. 4-27).

7. GRABBING BRAKES.

- Step 1. Check brake adjustment
 - a. If brakes are out of adjustment, adjust brakes (para. 4-18).
 - b. If brakes are not out of adjustment, proceed to step 2.

Test or Inspection

Corrective Action

- Step 2. Check for grease on brake lining.
 - a. If grease is present, replace brake shoes and oil seals (para. 4-19).
 - b. If grease is not present on brake lining, proceed to step 3.
- Step 3. Check for cracked, scored, or deformed brake drum.
 - a. If brake drum is cracked, scored, or deformed, replace brake drum (para. 4-19).
 - b. If brake drum is not cracked, scored, or deformed, proceed to step 4.
- Step 4. Check for worn or loose brake linings.

If linings are worn or damaged, replace brake shoes (para. 4-19).

- 8. HARD PULLING, ONE OR MORE BRAKE DRUMS RUNNING HOT.
 - Step 1. Check for cross connected air hoses.
 - a. If hoses are cross connected, connect hoses properly. (See Air System diagram, fig. 1-3)
 - b. If hoses are not cross connected, proceed to step 2.
 - Step 2. Check brake adjustment.
 - a. If brakes are out of adjustment, adjust brakes (para. 4-18).
 - <u>b.</u> If brakes are not out of adjustment, proceed to step 3.
 - Step 3. Check for weak or broken brake shoe springs.

If a spring is defective, replace spring (para. 4-19).

Test or Inspection

Corrective Action

- 9. EXCESSIVELY WORN OR SCUFFED TIRES OR FLAT SPOTS ON TIRES.
 - Step 1. Check for loose wheels.
 - a. If wheels are loose, tighten wheel nuts and torque to 450-500 lb-ft.
 - b. If wheels are not loose, proceed to step 2.
 - Step 2. Check for loose wheel bearings.
 - a. If wheel bearings are loose, adjust wheel bearings (para. 4-21).
 - b. If wheel bearings are not loose, proceed to step 3.
 - Step 3. Check suspension system for damaged rubber bumper assemblies, springs, and loose or missing bolts and nuts.

If suspension system is damaged or has loose or missing bolts and nuts, notify direct support maintenance. Replace missing bumper assemblies.

- 10. IMPROPER SPRING ACTION.
 - Step 1. Check for loose or damaged U-bolts.
 - a. If U-bolts are loose, tighten U-bolts (torque to 85-105 lb-ft).
 - b. If U-bolts are damaged, notify direct support maintenance.
 - c. If U-bolts are not damaged, proceed to step 2.
 - Step 2. Check for broken or weak spring leafs.

If spring leafs are broken or weak, notify direct support maintenance.

11. IMPROPER OR STIFF OPERATION OF SWIVELS.

Refer to swivel maintenance procedure (para. 4-31c).

Section V. ORGANIZATIONAL MAINTENANCE PROCEDURES

NOTE

Figure numbers cited pertain to Appendix F unless otherwise indicated.

4-12. COMPOSITE LIGHTS (Fig. 1).

- a. Removal.
 - (1) Remove plastic tiedown strap. Tag and disconnect connectors for wiring harness.
 - (2) Remove two cap screws (12) and lock washers (11). Remove light (1).
- b. Repair.
 - (1) Loosen six captive screws and remove door (2).

NOTE Do not remove packing (3) unless damaged.

- (2) Remove lamps from body.
- (3) Install new lamps in body as required by pressing into socket and turning clockwise.
- (4) Install new packing (3) if packing was removed and fasten door to body with captive screws.
- c. Installation.
 - (1) Install composite light (1) on trailer with two cap screws (12) and lock washers (11).
- (2) Connect connectors to wiring harness. Make sure that tag or marker numbers on wires correspond. Install plastic tiedown strap.

4-13, WIRING HARNESS (Figs. 2 and 4)

NOTE

Remove complete harness only if required to effect repair or replacement.

- a. Removal.
 - (1) Remove plastic tiedown straps and remove connectors from strap assembly (10, fig. 2).
 - (2) Disconnect intervehicular cable connectors from wiring harness connectors at junction.

- (3) Remove nine clamps (1, fig. 4) securing harness to frame by removing nine nuts (4) at nine positions along frame.
 - (4) Remove harness.

b. Repair.

- (1) If any connector terminal is damaged, replace it. Push back shell to expose terminal, remove defective terminal, and crimp a new terminal on end of wire. Pull shell over terminal.
- (2) If individual harness wires extending from the harness loom are broken, cut off defective piece of wire and splice on new length of wire. Install new terminal and shell to new wire.
 - (3) Replace deteriorated grommets on frame if harness has been removed.

c. Installation.

NOTE

Do not damage wiring or insulation during installation of wiring harness.

- (1) Feed wiring harness through grommets on frame, starting from rear of trailer.
- (2) Run wiring harness along frame then through grommets. Install clamps over harness and attach to studs with nuts in nine places.
 - (3) Position connectors at both taillight assemblies and reconnect.
 - (4) Position connectors at intervehicular cable and reconnect.
 - (5) Install plastic tiedown strap.
 - (6) Connect trailer to towing vehicle and check operation of all lights.

4-14. INTERVEHICULAR CABLE (Figs. 2, 3 and 4).

a. Removal.

- (1) Remove plastic tiedown strap and tag and disconnect cable connectors from wiring harness at junction.
- (2) Remove two clamps (1 and 5, fig. 4) securing intervehicular cable to trailer frame by removing nut (4) and screw (6).
 - (3) Remove intervehicular cable.
 - b. Cleaning and Inspection.

- (1) Clean intervehicular cable with clean rag.
- (2) Inspect cable for cuts, breaks and loose connectors and cover for damage.
- c. Installation. Replace in reverse order of procedure "a" above.

4-15. TESTING ELECTRICAL SYSTEM (Fig. 4-1).

a. Check for Grounds

(1) Disconnect all wiring connectors at the lights. Be sure identification markers are present on individual wires before disconnecting; if not, tag wires.

NOTE

Check for continuity or grounds using the multimeter on a low ohms scale.

- (2) Check for continuity between wiring harness connector pin and the chassis. If the circuit is open, repair ground lead on wiring harness.
- (3) Check for grounds between wiring harness connector pins, A, B, C, E, F, and J and pin D (ground). (Refer to fig. 4-1 wiring diagram). There should be an open circuit between the connector pins. If there is continuity between any connector pin as specified, that circuit is grounded and the wiring harness must be repaired or replaced.
 - (4) Remove all lamps from lights.
- (5) Check for grounds from each light lead wire and the chassis (ground). There should be an open circuit between each lead wire and the chassis. If there is continuity on any lead wire, the wire is grounded and must be repaired or the light replaced.

b. Check Wiring Harness Continuity.

- (1) Install all lamps in lights.
- (2) Check for continuity between each light lead wire and chassis. If there is an open circuit, first check lamp. If lamp is defective replace it. If there is still an open circuit, repair lead wire or replace light.
 - (3) Connect all wire connectors at lights.
- (4) Check for continuity between wiring harness connector pins (ground). Each circuit should indicate continuity. If not, there is a broken wire and wiring must be repaired or replaced.
- **4-16. VOLTAGE AND RESISTANCE MEASUREMENTS.** Voltage measurements are made with the trailer connected to the towing vehicle. To prevent damage to the multimeter, resistance measurements are made with the trailer disconnected from the towing vehicle. Refer to fig. 4-1 for the trailer wiring diagram.

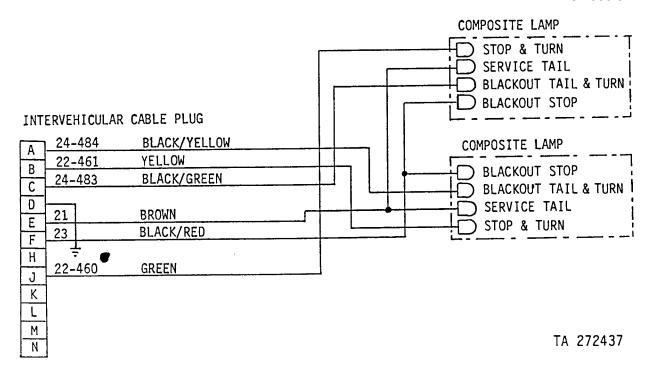


Figure 4-1. Wiring Diagram

a. At the Intervehicular Cable and Wiring Harness Junction:

- (1) Measure 24 Vdc \pm 1.5 Vdc on wire 24-484 when the towing vehicle's blackout taillights are actuated. The voltage reading should pulse from 1 to 24 Vdc when the towing vehicle's right turn signal is actuated. Resistance to trailer ground, with towing vehicle disconnected, should be 12.5 ohms \pm 1.2 ohms.
- (2) Measure 24 Vdc ± 1.5 Vdc on wire 24-461 when the towing vehicle's brakes are applied. The voltage reading should pulse from 0 to 24 Vdc when the towing vehicle's left turn signal is actuated. Resistance to trailer ground, with towing vehicle disconnected, should be 1.0 ohms + 0.1 ohms.
- (3) Measure 24 Vdc \pm 1.5 Vdc on wire 21 when the towing vehicle's service taillights are actuated. Resistance to trailer ground should be 12.5 ohms \pm 1.0 ohms.
- (4) Measure 24 Vdc <u>+</u> 1.4 Vdc on wire 23 when the towing vehicle's blackout stop lights are actuated. Resistance to trailer ground should measure 8.5 ohms + 1.0 ohms.
- (5) Measure 24 Vdc \pm 1.5 Vdc on wire 22-460 with the towing vehicle's brakes applied. The reading should pulse from 0 to 24 Vdc when the towing vehicle's right turn signal is actuated. Resistance to trailer ground, with towing vehicle disconnected, should be 1.0 ohms \pm 0.1 ohms.
- <u>b.</u> At the wiring harness and taillight wiring harness junction, the voltage and resistance readings will be the same. With connections open at both taillight harness junctions, the following readings should be measured.
 - (1) At left taillight harness:

Wire 24-484 - 25.0 ohms ± 2.5 ohms. Wire 22-461 - 2.0 ohms ± 0.2 ohms. Wire 21-461 - 2.0 ohms ± 0.2 ohms. Wire 23 -17.0 ohms + 1.7 ohms.

(2) At right taillight harness:

Wire 24-483 - 25.0 ohms \pm 2.5 ohms. Wire 22-460 - 2.0 ohms \pm 2.5 ohms. Wire 21 - 25.0 ohms \pm 2.5 ohms. Wire 23 - 17.0 ohms \pm 1.7 ohms.

4-17. REPLACE HAND BRAKE ASSEMBLY (Fig. 6).

- <u>a.</u> Remove the three hex head capscrews (14), hex nuts (16) and spacers (15) holding lever assembly (13) to drawbar.
 - b. Remove the snap ring (6) from cable (5) at front and rear mounting brackets.

- <u>c.</u> Disconnect clevis (2) from slack adjuster. Unscrew cable assembly (5) from slotted clevis (2) and remove clevis (8) from hand brake assembly. Unscrew cable from clevis (8). Use small adjustable wrench if necessary to loosen cable.
 - d. Remove hex nuts (7) from both ends of cable.
 - Slide each end of cable from mounting brackets (12 and 27).
 - f. Release cable from extension spring (24), (XM1034 only).
 - g. Install replacement assembly in reverse order.

4-18. ADJUST BRAKES (Fig. 4-2).

NOTE

Brakes must be released prior to performing following steps.

- <u>a.</u> Using a 9/16-inch socket, push in locking device (fig. 4-2), and turn adjusting screw clockwise on the slack adjuster until brakes prevent the wheel from turning.
 - b. Back off adjusting screw until brakes allow the wheel to turn freely for a complete revolution in each direction.

4-19. DISASSEMBLE/ASSEMBLE BRAKES (Figs. 7 and 13).

- a. Remove wheel using procedure in para. 3-7.
- b. Remove the six 1/2-inch hub cap retaining screws (10, fig. 13), lock washers (11), hub cap (9) and gasket (12).
- c. Bend out tab on spindle nut washer (13).

NOTE

Spindle nut socket wrench is stored in trailer tool box.

d. Remove outer spindle nut (8), washer (13) and inner spindle nut (8) using spindle nut wrench in tool box.

CAUTION

Two persons are required to lift and handle hub and drum assembly. Hub and drum assembly weighs in excess of 100 pounds.

- e. Remove thrust washer (14), outer cone bearing (7) and hub and drum assembly.
- <u>f.</u> Remove brake drum (1) from hub (17) by removing the six stud nuts (3) and washers (2) Drive out studs (16) if damaged.
 - g. Remove grease seal (18) and bearing cups (5 and 6) from hub.

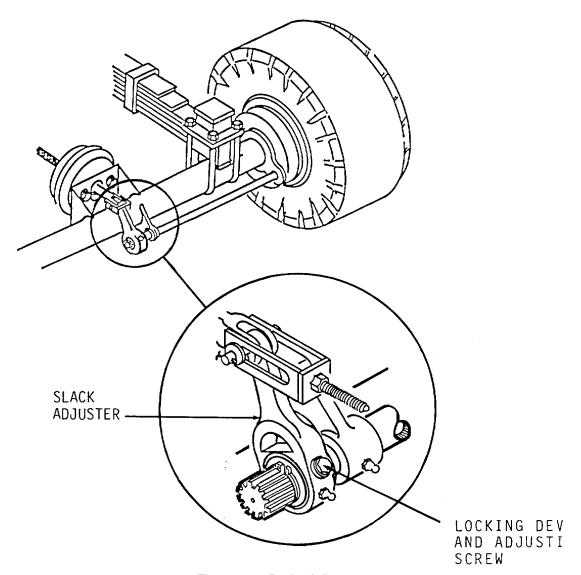


Figure 4-2. Brake Adjustment

- h. Inspect brake assembly as follows:
- (1) Check brake linings (2, fig. 7) for excessive wear (less than 1/16-inch above rivet heads), surface glaze, grease, oil or dirt.
 - (2) Check cam shaft (13) and rollers (6) for excessive wear or damage.
 - (3) Check anchor pins (11) for wear and security.
 - (4) Check brake drum for uneven wear or deformation.
- <u>i.</u> Remove nuts (25, fig. 7), lock washers (24), anchor pin lock rings (12), anchor pin links (10) and anchor pins (11).
 - <u>i.</u> Remove brake shoe return spring (9) and brake shoes (1).
 - k. Remove lock ring (3), rollershaft (7) and roller (6) from brake shoe.
 - I. Remove slack adjuster (17) and cam shaft (13) as follows:
- (1) Remove cotter pin (16, fig. 12), washer (15) and clevis pin (13) connecting air chamber piston rod clevis (14) to slack adjuster (17, fig. 7).

NOTE

On front axle, also remove cotter pin, clevis pin and clevis attaching handbrake cable to slack adjuster.

- (2) Remove two lock rings (18, fig. 7) from cam shaft (13).
- (3) Remove slack adjuster (17) from cam shaft (13).
- (4) Remove cam shaft (13) along with seals (14), washer (23), bushing (22) and washer (20).
- <u>m.</u> Remove eight nuts (21, fig. 7), washers (28) and bolts (26). Remove spider (27). Remove lube fittings (16) from spider.
 - n. Reassemble brake in reverse order of steps a through m.
 - o. Adjust brakes (para. 4-18).
- **4-20. SERVICE WHEEL BEARINGS**. To service wheel bearings refer to para. 4-19, (steps a through e) and proceed as follows:
- <u>a.</u> Thoroughly clean bearing cones and cups with dry cleaning solvent (App. E, item 2). Allow to dry. Do not spin with air pressure.
- <u>b.</u> Inspect bearing rollers for indications of wear and overheating. Wear is indicated if roller surfaces appear frosted or if the surface is pitted. A blue color indicates that rollers have been overheated. Check roller cage for wear or damage. Replace the bearing cone if any of these conditions exist.

<u>c.</u> Inspect bearing cups for damage. Wear is indicated by dull, frosty appearance of surface, and/or pitting. Replace defective cups. Check that cups are not loose in the hub.

NOTE

If either the cup or cone need replacing, both must be replaced.

NOTE

Bearings must be clean. Do not allow a bearing to contact dirty hands or surfaces.

- d. Repack the bearings with grease (App. E, item 3).
- e. Apply a thick coat of grease in the hub between the cups.
- f. Reinstall bearings, hubs, drums and wheels, and adjust wheel bearings (para. 4-21).
- **4-21. WHEEL BEARING ADJUSTMENT**. When installing inner spindle nut (8, fig. 13), set bearing pre-load by fully tightening the spindle nut while rotating the hub in both directions until hub will not move with hand pressure. Then back off spindle nut (one quarter turn) and install lock washer (13) and outer spindle nut (8). Bend down tab of lock washer over outer spindle nut.

NOTE

Spindle nut socket wrench is stored in trailer tool box.

4-22. REPAIR INTERVEHICULAR AIR HOSE AND COUPLER (Fig. 9).

NOTE

Remove and replace any air lines having evidence of leakage by disconnecting connectors. Remove clamps as required and pull lines through grommets.

NOTE

Wrap all couplings with teflon tape during installation.

- a. Pry packing ring (12, fig. 9) out of coupler (9) with a small screwdriver and discard the ring.
- b. Clean dust, dirt or corrosion from coupler recess.
- c. Install new packing ring.
- <u>d</u>. Charge air system and listen and feel for air leaks in hoses, fittings, filters, relay valve and air chambers. Soap and water solution can also be used to check for leaks.

4-23. REPLACE INTERVEHICULAR HOSE (Fig. 9).

- a. Remove the hex head cap screw (16) and clamp (17) securing hose assembly (7)-to front of drawbar.
- <u>b.</u> Using a 1-1/16-inch open-end wrench, loosen hose coupling at adapter (8). Unscrew anchor coupling (6) on hose bracket using 1-inch open-end wrench.
 - c. Remove hose assembly (7).
 - d. Install replacement hose in reverse order.
 - e. Test air system (para. 4-22d).

4-24. AIR FILTER REPLACEMENT AND SERVICING (Fig. 10).

- a. Disconnect air hoses from towing vehicle and bleed air system on trailer by opening drain cock on air reservoir.
- b. Remove filter assembly (7) as follows:
 - (1) Remove two 7/16-inch self-locking hex nuts (6) holding "U" bolt (5) in place.
 - (2) Remove "U" bolt (5).
 - (3) Remove two hoses from filter assembly by unscrewing connector fittings with a 5/8-inch open-end wrench.
- c. Service air filter as follows:
- (1) Using a 1-1/2-inch box wrench, unscrew nut (12) from bottom of filter body (14). Hold body with adjustable wrench.
- (2) Remove gasket (11), spring (10), spring centering washer (9), and filter element (8) from filter body. Clean or replace filter element (8).
 - d. Reinstall parts in reverse order.
 - e. Replace filter assembly in reverse order.
 - f. Test air system (para. 4-22d.).

4-25. REPLACE AIR CHAMBER (Fig. 12).

- Set parking brakes and block wheels.
- b. Disconnect air hoses from towing vehicle (if attached).

WARNING

Wear protective goggles when opening drain cock and avoid air blast or eye injury may occur.

- c. Open drain cock on reservoir and bleed air system.
- <u>d.</u> Disconnect hose from emergency relay valve to chamber by unscrewing hose fitting at relay valve with 7/8-inch open-end wrench. Then disconnect hose at rear of chamber with a 9/16-inch open-end wrench.
- <u>e.</u> Release parking brake. For front air chambers only, remove cotter pin (16, fig. 12), washer (15) and clevis pin (13) attaching clevis (14) to slack adjuster.
- f. Remove two 15/16-inch hex nuts (19) and lock washers (18) attaching air chamber to mounting bracket and remove air chamber (1).
 - g. Disassemble air chamber as follows:
 - (1) Remove clevis (14) and jam nut (12) from push rod (9).
 - (2) Set chamber in vise clamping the two housing halves together.
 - (3) Remove clamp halves (8) by removing bolts (7) and self-locking nuts (6).

WARNING

Housing halves are under spring tension. Injury could occur if assembly is not removed slowly from vise.

- (4) Carefully remove housing assembly from vise and slowly separate halves.
- (5) Remove push rod (91 spring (10) and diaphragm (2).
- (6) Replace damaged components.
- (7) Re-assemble in reverse order.
- h. Mount replacement air chamber and secure with two lock washers (18) and nuts (19).
- <u>i.</u> Using a 7/8-inch open-end wrench, loosen jam nut (12) on push rod (9) and turn clevis (14) until holes align with holes in slack adjuster arm. Tighten jam nut.
 - j. Install clevis pin (13), washer (15) and cotter pin (16).

<u>NOTE</u>

Attaching hardware is included with the replacement air chamber assembly.

- k. Screw hose into emergency relay valve and air chamber fitting.
- I. air system (para. 4-22d).

4-26. REPLACE AIR RESERVOIR (Fig. 9).

- a. Set parking brakes and block trailer wheels.
- <u>b.</u> Disconnect air hoses from towing vehicle (if attached).

WARNING

Wear protective goggles when opening drain cock and avoid air blast or eye injury may occur.

- c. Open drain cock (2) on reservoir (1) and bleed air system.
- d. Using a 13/16-inch open-end wrench, disconnect hose from reservoir.
- e. Remove two 9/16-inch hex head cap screws (4) and self-locking nuts (3) attaching each end of reservoir to trailer frame and remove reservoir.
 - f. Replace drain cock (2) with 5/8-inch open-end wrench if damaged.
 - g. Mount replacement reservoir and secure with four screws (4) and selflocking nuts (3).
 - Screw hose from emergency relay valve to reservoir fitting.
 - i. Test air system (para. 4-22d).

4-27. REPLACE EMERGENCY RELAY VALVE (Fig. 11).

- a. Set parking brakes and block trailer wheels.
- b. Disconnect air hoses from towing vehicle.

WARNING

Wear protective goggles when opening drain cock and avoid air blast or eye injury may occur.

- c. Open drain cock on reservoir and bleed air system.
- <u>d.</u> Tag and disconnect service and emergency hoses at elbows (4), hose to reservoir at elbow (5) and four hoses (2 and 3) to air chambers by unscrewing hose fittings at valve.
- <u>e.</u> Remove three 9/16-inch hex head cap screws (10) and self-locking nuts (9) holding valve assembly (1) and adapter (6) to trailer frame and remove valve.
 - f. Install valve (1) and adapter (6) on frame and secure with three cap screws (10) and nuts (9).
 - g. Connect hoses disconnected in step c.

- h. Close drain cock on reservoir.
- i. Connect air hoses to towing vehicle.
- i. Test air system (para. 4-22d).
- **4-28. REPLACEMENT OF LUNETTE (Fig. 15**). With socket wrench, remove the six 3/4inch hex nuts (1). Remove screws (2) and lunette (5). Adjust XM1034 lunette to pintle height of towing vehicle. Secure with six screws (2) and nuts (1).
- **4-29. REPLACEMENT OF SAFETY CHAINS (Fig. 15).** With socket wrench, remove hex nut (1) and screw (2). Remove clevis (4) and chain (3). Install chain in reverse order.

4-30. REPLACE SPARE TIRE CARRIER (Fig. 16).

- a. Remove spare tire (para. 2-13).
- b. Remove shaft (7) as follows:
- (1) Remove cotter pin (16), washer (17), two hex nuts (14), "U" bolt (10) and cotter pin (9). Remove cable (12) from shaft.
 - (2) Remove spool (18) and shaft (7) by sliding shaft out from rear of trailer.
 - c. Disassemble support (11) and cable (12) by removing cable clamp (13).
 - d. Remove pawl (6) by removing spring (3), hex nut (2), hex head screw (5) and washer (4).
 - e. Replace all damaged parts and assemble in reverse order.

4-31. Replace Leveling Jack Swivel (Figure 17 and 18).

- a. Lower leveling jack to vertical position (Paragraph 2-12b).
- b. Using hand crank, lower jack pad to ground.
- c. Remove and disassemble jack and swivel assembly as follows:
- (1) Remove four Screws (Item 31, Figure 18) and self-locking nuts (32) and remove jack and swivel assembly from trailer.
- (2) Loosen the two bolts, (Item 11) until clamping force is gone. Remove item 15, swivel lock assembly, as a unit, using 1-1/2 inch wrench and discard old gasket (10).

- (3) Remove items (11 and 12), bolts and washer, and item (13) cap, and remove jack from swivel. \par
- (4) Remove four screws (30), washers (29), plate (8), shim set (3), base (2), and a-ring (14) from swivel base (9).
 - (5) Replace all damaged parts.
 - (6) Pack swivel base (9) with grease (GAA) prior to installing shims.

NOTE

When installing plate (8) torque screws (30) to 50 lb-ft, using a feeler gage, determine the gap between base, (item 2, and base item 9). The gap should be .012 inch + .002 which provides an 0-ring crush, item 14. If the measured gap does not meet the range specified, remove bolts and lock washes, items 29 and 30 and add or remove shims.

- d. Disassemble pin assembly (Item 15, Figure 18) (1034 only).
 - (1) Remove pin assembly (15) by unscrewing housing (28), washer (27) will come off.
 - (2) Remove pin (26) from sleeve (23).
 - (3) Remove pin (22) from sleeve (23).
 - (4) Remove pin (20) and spring (21) and "0" ring (19).
 - (5) Replace damaged parts and assemble in reverse order.
- (6) Reverse order to assemble swivel and jack. Torque cap screws (31) to 120 lb-ft, and (11) to 120 lb-ft. Do not torque item 28.
 - (7) Check for safe operation of jack assembly.
 - e. Disassemble swivel lock assembly (Item 15, Figure 18) (XM1048 only).
- (1) Remove pins (7), swivel pin (8), from housing (6). Apply GAA Grease to swivel pin threads and lock assembly housing per lub order.

Change 1 4-24

- (2) Remove gasket (10) between cap (13) and base (9) and discard.
- f. Install swivel lock assembly (15) as follows:
 - (1) Replace gasket (10) between cap (13) and base (9), per figure 18.
 - (2) Install cap (13).
 - (3) Install lock washer (27) on housing (16).
 - (4) Install items (11) and (12) bolts and lock washers, do not tighten.
- (5) Install housing (16) and rotate in direction required to provide a gap between cap (13) and base (9), that is 1/16 inch on housing side, crushing neoprene gasket (10).
- (6) If holes in housing (16) for roll pins (17) are not parallel with the axis of the jack, rotate housing (16) in a tightening or loosening direction, as required, until the holes are parallel. This will permit subsequent removal of item (18) swivel pin for cleaning and lubrication without removal of item (16) housing.
 - (7) Torque bolts (11) to 120 lb-ft increments. Do not torque housing (16).
 - (8) Install lock pin (18), hand tight in housing (16).
 - (9) Install pins (17).
 - (10) Install jack and swivel assembly on trailer and torque bolts (31) to 120 lb-ft.
 - (11) Check for safe operation of jack assembly.
 - g. Disassemble jack as follows (fig. 17):
 - (1) Remove four socket head cap screws (34) and cover assembly (29).
 - (2) Remove bearing cone (33) from gear (27).
 - (3) Drive out groove pin (26) and remove gear (27).

Change 1 4-25

- (4) Remove screws (15) and key cover (16) and remove key (17) and key seal (5) Remove outer housing (6) and collar (28) from inner tube (10) by pulling apart. Remove collar (28) from outer housing.
 - (6) Remove pin (4) and pinion assembly (19) from outer housing (6).
 - (7) Remove bushing (25) if necessary.
 - (8) Remove nut (14), inner cup (13) and ground pad (12).

CAUTION

Do not damage outer surface of inner tube (10).

- (9) Carefully drive in two groove pins (9) until wall of inner tube (10) is cleared. Separate jack screw (2) from inner tube (10).
 - (10) Drive out groove pin (3) from jack screw (2).
 - (11) Spin jack nut (8) off of jack screw (2).
 - (12) Drive pins (9) out of jack nut (8).
 - (13) Remove rectangular seal (7) from outer housing (6) only if obviously damaged.
 - (14) Replace lube fittings (5 and 31) if damaged.

h. jack as follows:

- (1) Coat inside of jack nut (8) with grease (GAA) and install jack nut (8) onto jack screw (2) with large end first to about six inches from top of thread.
 - (2) Install pin (3) into jack screw (2).
 - (3) Install jack screw (2) into inner tube (10) and align holes in jack nut with holes in inner tube.
 - (4) Install two pins (9) into inner tube (10) until slightly below flush.
- (5) Put grease on top side of cup (13) and both sides of ground pad (12) cup surface and install ground pad on inner tube (10) with cup (13) and nut (14).
 - (6) Coat bushing (25) with grease (GAA) and install pinion assembly (19) in outer housing (6). Install pin (4).
- (7) Slip outer housing (6) over inner tube (10) and align keyway holes. Install key seal (18) in key (17) and install through hole in outer housing (6) into keyway. Install key cover (16) with two screws (15).
 - (8) Install thrust collar (28) on jack screw (2) and install gear (27). Align pin holes and install pin (26).

- (9) Install bearing cone (33), narrow end up.
- (10) Raise outer housing (6) slightly above end of jack screw (2) and install cover assembly (29) with lube fitting (31) toward pinion shaft. Secure with four socket head cap screws (34).

4-32. REPLACING TOOL BOX LOCK (Fig. 21).

- a. Remove retaining clip (12), nuts (9), washers (11), latch (10), washer (8) and washer (7).
- b. Pull out handle (2) and shaft (4) and remove spring (6) and washer (5).
- c. Remove pin (3).
- d. Replace damaged parts.
- e. Assemble in reverse order.

4-33. REPLACEMENT OF REFLECTORS (Fig. 22).

- a. Using flat tip screw driver remove two screws (3) and amber reflector (2) or red reflector (1) from trailer frame.
- b. Install new reflector (1 or 2) and two screws (3).

NOTE

Red reflectors are at rear of trailer and amber reflectors are at the front of the trailer.

4-34. REPLACEMENT OF DATA PLATES (Fig. 23).

- a. Remove drive screws (2) and plate (1), (3) or (4).
- b. Install new data plate and drive screws (2).
- **4-35. PAINTING INSTRUCTIONS**. General instructions are contained in TM 43-0139, Painting Instructions for Field Use.

4-27/(4-28 blank)

CHAPTER 5

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

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

- **5-1. COMMON TOOLS AND EQUIPMENT**. For authorized common tools and equipment, refer to the Table of Organization and Equipment (TOE) or the Modified Table of Organization and Equipment (MTOE) applicable to your unit.
- **5-2. SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT.** No special tools, TMDE, or support equipment is required to maintain these trailers.
- 5-3. REPAIR PARTS. Repair parts are listed and illustrated in Appendix F of this manual.

Section II. MAINTENANCE OF COMPONENTS.

- 5-4. RELINING BRAKE SHOES (Fig. 7).
 - a. Remove rivets (8) from shoe assembly (1), and remove and discard old brake linings (2).

WARNING

Do NOT use a dry brush or compressed air to clean brake shoes. Brake shoe linings contain asbestos and shed dust particles which can be dangerous to your health if breathed. Dampen surface of lining with water and use a soft bristle brush.

- <u>b.</u> Clean brake shoe (4) thoroughly, using a brush and water to remove mud, and cleaning solvent to remove grease and oil.
 - c. Position new brake lining (2) on the brake shoe (4).

NOTE

Be sure cam end lining is installed on cam end of shoe. Cam end lining is tapered more toward the end of shoe than anchor end lining. Cam end of shoe has two holes in each shoe bracket. Anchor end of shoe has one hole in each bracket.

NOTE

If brake drums have been machined (para. 5-5), install shims between the brake shoe and brake lining, of the same thickness as the metal removed from the brake drums.

- <u>d.</u> Install rivets (8) in the two center holes of the brake shoe (4) and brake lining (2) to secure the brake lining, then install the remaining rivets.
 - e. Install the other lining (2).
- <u>f.</u> Check the contact of the brake lining with the brake shoe. A 0.0005-inch feeler gage should not enter between the brake shoe and brake lining at any point.
 - g. Repeat steps c through f for remaining brake shoes.
- <u>h.</u> Check shoes against drum for contact. Brake shoes must have 80 percent contact between lining and drum surface. It is necessary that the contact be in the middle of the lining surface and continuous. If lining to drum surface contact is not 80 percent, the shoes should be circle ground to comply.

5-5. TURNING DRUMS.

- a. Clean brake drum with cleaning solvent to remove dirt and grease.
- <u>b.</u> Inspect the brake drum for warpage, cracks, scored braking surface, and out-of-round condition. If inspection shows the brake drum to be in unsatisfactory condition, refinish the brake drum in the following manner:
- (1) Measure the inside diameter of the brake drum. New brake drums measure 16.490 to 16.510 inches. Brake drums should be refinished if scoring or run-out exceeds 0.0006 inch.

NOTE

Brake drums having an inside diameter larger than 16.650 inches must be replaced.

- (2) Install brake drum on lathe and refinish surface, taking off as little of the metal as possible to true the surface. If refinishing requires removal of more than 0.070 inches of metal (0.140 inch in diameter), replace the brake drum.
 - (3) Finish inside diameter to 200 microinches.

5-6. BOGIE ASSEMBLY (Fig. 19).

a. Removal.

- (1) Position the trailer on a level surface with the rear end of the frame under an overhead hoist which has sufficient capacity to support the trailer after removal of the bogie assembly. Block up the draw bar. Front jacks must be in down position and back jacks swiveled up towards rear of trailer.
- (2) Using a lifting sling to engage the two rear lifting lugs, attach the overhead hoist to the trailer. Remove the slack from the hoist cable, but do not raise the rear of the trailer with the hoist.
 - (3) Open drain cock on air reservoir.
 - (4) Tag and disconnect air lines from all four air brake chambers.
- (5) Disconnect hand brake cables (5, fig. 6) from slack adjusters. Remove devises (2) and snap rings (6) from cable ends and pull cables through bracket (27).
- (6) Remove eight nuts (2, fig. 19), lock washers (24), and screws (21) attaching clamps (20) to frame pedestal.
- (7) Using the overhead hoist, raise the rear end of the trailer and roll the wheels and bogie assembly from under the rear of the trailer.
 - (8) Lower rear leveling jacks and lower rear of trailer.

b. Disassembly.

- (1) Block or hoist end of springs of axle to be removed.
- (2) Remove four lock-nuts (2), hex nuts (3), "U" bolts (16), two hex nuts (1), and washers (26) from shackle box studs at each end of axle assembly.
- (3) Remove shackle box covers (25), spacers (18), trunnion bar (23) (see para. 5-9), spring assemblies (7) (See para. 5-8), spacers (17) and axle.
 - (4) Remove the wheels (para. 3-7).
 - (5) Remove the hubs and drums (para. 4-19).
 - (6) Remove brake assemblies (para. 4-19).
 - (7) Remove air chambers (para. 4-25).

c. Cleaning, Inspection, and Repair.

(1) Cleaning. Clean mud and dirt from all exposed parts with water and stiff brush. Remove grease from spindles of axle and wheel-retaining parts with dry cleaning solvent (App. E, Item 2).

- (2) Inspection. Check threads of axle spindles for wear, crossed threads, or damage.
- (3) Repair. Using fine file, remove burrs or hand chase threads if necessary. If axle spindles are damaged, replace axle. Check for damaged paint and repaint where necessary.

d. Bogie Assembly (fig. 19).

- (1) Install brake assemblies (para. 4-19).
- (2) Install hub and brake drum assemblies (para. 4-19).
- (3) Install wheel and tire assemblies (para. 3-7).
- (4) Install trunnion bar (23) by pressing trunnion bracket bushings (14) into trunnion brackets (13) and placing ring spacers (19) and trunnion bracket assemblies (12) onto trunnion axle bar (23). Attach ring collars (10) to trunnion bar (23) with cap screws (11).
- (5) Install springs by placing bottom spacers (17), side spacers (8) and springs (7) into shackle boxes. Place top spacers (18) and shackle box covers (25) into place and attach with "U" bolts (16), hex nuts (2 and 3), and cover retaining nuts (1 and 26).

e. Bogie Installation

- (1) Roll bogie assembly under trailer.
- (2) Lower trailer frame and attach trunnion bar (23) to frame with clamps (20), screws (21), lockwashers (24) and nuts (2).
 - (3) Install flexible brake hoses on air chambers.
 - (4) Attach handbrake cables to front slack adjusters.
 - (5) Remove lifting sling.
 - (6) Close air reservoir drain cock.

5-7. AXLE ASSEMBLY.

- a. Removal (para. 5-6).
- b. Inspection.
- (1) Clean mud and dirt from all exposed parts with water and stiff brush. Remove grease from spindles of axle.
 - (2) Inspect for damaged spindle, cracked or broken welds and bent axle.

- c. Repair. Replace all damaged axles.
- d. Installation. Install (para. 5-6d).

5-8. SPRINGS.

5-8.1. XM1034 only.

a. Removal (Fig. 19).

NOTE

This procedure is for replacing one spring.

- (1) Remove bogie (para. 5-6)
- (2) Block trunnion bar (23) and detach spring (7) from the trunnion bracket (13) by removing the eight nuts (4 and 5), four retaining bolts (15) and the top plate (6).
- (3) Detach spring from the shackle boxes on each axle by removing hex nuts (2 and 3), "U" bolts (16), cover retaining nuts (1 and 26) shackle box covers (25), and top spacers (18).

WARNING

Each spring weighs approximately 100 pounds. Two persons are required to lift.

- (4) Lift spring (7) from shackle boxes. Remove side spacers (8) and bottom spacers (17).
- b. Installation.

NOTE

If shackle box spacers are worn or damaged install new spacers.

(1) Install spring in reverse of procedure <u>a</u>.

CAUTION

Do not torque trunnion bracket bolts (15) more than 175 lb-ft as it may damage the top plate (6).

- (2) Torque trunnion bracket bolts to 150-175 lb-ft.
- (3) Torque "U" bolt nuts (3) to 85-105 lb-ft.
- (4) Install bogie assembly (para. 5-6e).

5-8.2. XM1048 only.

a. Removal (Fig. 19).

NOTE

This procedure is for replacing one spring.

- (1) Remove bogie (para. 5-6). XM1048 only.
- (2) Block trunnion bar (23) and detach spring (7) from the trunnion bracket (13) by removing eight nut and washers (32 and 31), four retaining bolts (27), two clip springs (28) and the top plate (30).
- (3) Detach spring from the shackle boxes on each axle by removing hex nuts (2 and 3), "U" bolts (16), cover retaining nuts (1 and 26) shackle box covers (25), and top spacers (18).

WARNING

Each spring weights approximately 100 pounds. Two persons are required to lift.

- (4) Lift spring (7) from shackle boxes. Remove side spacers (8) and bottom spacers (17).
- b. Installation.

NOTE

If shackle box spacers are worn or damaged install new spacers.

- (1) Install spring in reverse of procedure a. Do not torque trunnion bracket bolts (27) more than 200 + 10 lb-ft as it may damage the top plate (30).
- (2) Torque trunnion bracket bolts 200 ± 10 lb-ft (27).
- (3) Torque "U" bolt nuts (3) to 85-105 lb-ft.
- (4) Install bogie assembly (para. 5-6e).

Change 1 5-6

5-9. TRUNNION TUBE (Fig. 19).

5-9.1. XM1034 only.

a. Removal.

- (1) Remove bogie assembly (para. 5-6).
- (2) Block trunnion bar (23).
- (3) Remove eight nuts (4 and 5) bolts (15) and plate (6) from each spring assembly (7). Lower trunnion bar (23) and trunnion brackets (12).
- (4) Remove two socket head cap screws (11), lock ring collars (10), bushings (14), trunnion brackets (13) and ring spacers (19).
- (5) Replace all damaged parts.

b. Installation.

Reverse procedure and lubricate lube fittings (22) on ends of trunnion bar (23).

5-9.2. XM1048 only.

a. Removal. XM1048 only.

- (1) Remove bogie assembly (para. 5-6).
- (2) Block trunnion bar (23).
- (3) Remove eight nuts and washers (31 and 32), bolt (27), two clip springs (28) and plate (30) from each spring assembly (7). Lower trunnion bar (23) and trunnion brackets (12).
- (4) Remove two socket head cap screws (11), lock ring collars (10), bushings (14), trunnion brackets (13) and ring spacers (19).
- (5) Replace all damaged parts.

b. Installation.

Reverse procedure and lubricate lube fittings (22) on ends of trunnion bar (23).

SECTION III. PREPARATION FOR STORAGE OR SHIPMENT.

5-10. PREPARATION FOR STORAGE OR SHIPMENT.

- a. Air Brake System. Open drain cock on air reservoir.
- b. Tires.
 - (1) Reduce tire pressure to 20 psi (cold).
 - (2) Lower leveling jacks and extend to support trailer weight.

5-11. PREPARATION FOR USE AFTER STORAGE.

- a. Tires. Inflate tires to correct pressure -(cold).
- b. Air System. Close air reservoir drain cock.
- c. Perform operator/crew and organizational preventive maintenance checks and services. (PMCS).

APPENDIX A

REFERENCES

A-1. PUBLICATION INDEXES AND GENERAL REFERENCES.

Indexes should be consulted frequently for latest changes or revisions of references given in this appendix and for new publications relating to material covered in this publication.

a. Military Publication Indexes.

Consolidated Index of Army Publications and Blank Forms	DA PAM 310-1
US Army Equipment Index of Modification Work Orders	DA PAM 750-10

b. General References.

How to Prepare and Conduct Military Training	FM 21-6
Military Symbols	

A-2. FORMS.

Refer to DA PAM738-750. The Army Maintenance Management System (TAMMS), for instructions on the use of maintenance forms pertaining to the material.

A-3. OTHER PUBLICATIONS.

The following publications contain information pertinent to the major item material and associated equipment.

a. Camouflage.

Camouflage	FM 5-20
Painting Instructions for Field Use.	
Color Marking, and Camouflage Painting of Military	
Vehicles, Construction Equipment, and Materials Handling Equipment	TB 43-0209

b. Decontamination.

Chemical, Biological, and Radiological (CBR) Decontamination.	TM 3-220
Nuclear, Biological, and Chemical (NBC) Defense.	FM 21-40

c. General.

Basic Cold Weather Manual	FM 31-70
Deep Water Fording of Ordnance Material.	TM 9-238
Manual for the Wheeled Vehicle Driver	FM 21-305
Northern Operations	FM 31-71
Operation and Maintenance of Ordnance Material in Cold Weather (0 to -65 F)	FM 9-207
Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use	eTM 750-244-6
Visual Signals	FM 21-60
d. Maintenance and Repair.	
Organizational Care, Maintenance and Repair of Pneumatic Tires, Inner Tubes an	d Radial Tires TM 9-2610-200-20
Inspection Care, and Maintenance of Antifriction Bearings	
Materials Used for Cleaning, Preserving, Abrading, and	
Cementing Ordnance Material and Related Materials Including Chemicals	TM 9-247
Operators Manual for Welding Theory and Application	
e. Administrative Storage.	
Administrative Storage of Equipment	TM 740-90-1

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. GENERAL.

- <u>a.</u> This section provides a general explanation of all maintenance and repair functions authorized at various maintenance categories.
- <u>b.</u> The Maintenance Allocation Chart (MAC) in section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.
- c. Section III lists the special tools and test equipment required for each maintenance function as referenced from section II.
 - <u>d.</u> Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

B-2, MAINTENANCE FUNCTIONS.

Maintenance functions will be limited to and defined as follows:

- <u>a.</u> <u>Inspect.</u> To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.
- <u>b.</u> <u>Test.</u> To verify serviceability by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- <u>c.</u> <u>Service</u>. Operations required periodically to keep an item in proper operating condition, i.e., to clean (includes to decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases.
- <u>d.</u> <u>Adjust</u>. To maintain within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

- <u>f.</u> <u>Calibrate</u>. To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipment's used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- g. <u>Install.</u> The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- <u>h.</u> Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.
- <u>i.</u> Repair. The application of maintenance services or other maintenance actions to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part subassembly, module (component or assembly), end item, or system.
- <u>j. Overhaul</u>. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new conditions.
- <u>k.</u> <u>Rebuild.</u> Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material 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.

- <u>a.</u> <u>Column (1) Group Number.</u> Column 1 lists functional group code numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.
- <u>b.</u> <u>Column (2) Component/Assembly</u> Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.
- <u>c.</u> <u>Column (3) Maintenance Function</u>. Column 3 lists the functions to be performed on the item listed in Column 2. (For detailed explanation of these functions, see para. B-2).
- <u>d. Column (4) Maintenance Category.</u> Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn(s), the category of maintenance authorized to perform the function listed in Column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity or the tasks within the listed maintenance function vary at different maintenance categories, appropriate work time figures will be shown for each category.

The work time figure represents the average time required to restore an item (assembly, subassembly, component, module end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance categories are as follows:

С	Operator or Crew
0	Organizational Maintenance
F	Direct Support Maintenance
	General Support Maintenance
	Depot Maintenance

- e. <u>Column (5) Tools and Equipment</u>. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TMDE, and support equipment required to perform the designated function.
- <u>f.</u> <u>Column (6)</u> <u>Remarks</u>. 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.

- <u>a.</u> <u>Column (1) Reference Code</u>.- The tool and test equipment reference code correlates with a code used in the MAC, Section II column 5.
- <u>b.</u> <u>Column</u> (2) <u>Maintenance</u> <u>Category</u>. The lowest category of maintenance authorized to use the tool or test equipment.
 - c. Column (3) Nomenclature. Name or identification of the tool or equipment.
 - d. Column (4) National Stock Number. The National stock number of the tool or test equipment.
 - e. Column (5) Tool Number. The manufacturer's part number.

B-5. EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

- a. Column (1) Reference Code. = The code recorded in column 6, section II.
- <u>b.</u> <u>Column (2) Remarks</u>. = This column lists information pertinent to the maintenance function being performed as indicated in the MAC, section II.

Section II. MAINTENANCE ALLOCATION CHART

(1)	(2)	(3)	(4)			(5)	(6)		
GROUP		MAINTENANCE	MA	MAINTENANCE LEVEL			TOOLS AND		
NUMBER	COMPONENT ASSEMBLY	FUNCTION	С	0	F	Н	D	EQUIPMENT	REMARKS
06	ELECTRICAL SYSTEM								
0609	Lights, Marker and Composite Tail Stop	Replace Repair		0.2 0.2				3 3	
0613	Chassis Wiring Harness	Replace Repair		1.5 1.0				3	
11	AXLE ASSEMBLY								
1100	Axle	Replace			6.0			1, 3	
12	BRAKES	Repair			6.0			1, 3	
1201	Hand Brake	Adjust Replace Repair		0.5 1.8 3.2				6	
1202	Service Brakes	Adjust Replace Repair		1.0 4.0 8.0				3 2, 3, 5, 6 2, 3, 5, 6	
	Shoe Assembly Brake Lining	Replace Replace		0.5	0.5			2, 3, 5, 6	A
1208	Couplings, Air Lines and Fittings	Test Replace		0.6 0.5				3	
	Air Filter Service	Replace Repair		0.2 1.0 1.5				3 3 3	
	Chamber, Air, Standard Valve, Relay Emergency	Replace Repair Replace		1.0 1.5 1.0				3 3 3	

Section II. MAINTENANCE ALLOCATION CHART-continued

(1)	(2)	(3)		(4)			(5)	(6)	
GROUP	COMPONENT ACCEMBLY	MAINTENANCE		MAINTENANCE LEVEL			TOOLS AND	DEMARKS	
NUMBER	COMPONENT ASSEMBLY	FUNCTION	С	0	F	Н	D	EQUIPMENT	REMARKS
	Reservoir, Air	Service Replace	0.1	1.0				3	
	Draincock	Replace		0.1					
13	WHEELS AND HUBS								
1311	Wheel Assembly	Replace		0.5				2, 3, 5, 6	
	Hub and Drum	Replace		1.0				1, 2, 3, 5, 6	
	Drum	Repair			1.				А
	Wheel Bearings	Adjust		1.0					
1313	Tires	Service Replace Repair	0.1	0.5 1.0				2, 3, 5, 6	
15	FRAME, TOWING ATTACHMENT								
1503	LUNETTE	Replace		0.2				3	
1504	Spare Tire Carrier	Replace Repair		1.0 1.8				3	
1507	Leveling Jacks	Replace		1.0				2, 3	
16	SPRINGS	Repair		2.0					
1601	Springs and Attaching Parts	Replace			6.0			2, 3	
22	BODY ACCESSORY ITEMS								
2202	Reflectors	Replace		0.5				3	
2210	Data Plates	Replace		0.1				3	

SECTION III TOOL AND TEST EQUIPMENT REQUIREMENTS

(1) TOOL AND EQUIPMENT	(2) MAINTENANCE CATEGORY	(3) NOMENCLATURE	(4) NATIONAL/NATO STOCK NUMBER	(5) TOOL NUMBER
1	F	WRENCH, SPINDLE NUT		EMD4114-21
2	F, O	WRENCH, TORQUE 0-600 ft/lb. 3/4" SQ DRIVE	5120-00-221-7983	GGG-W-686
3	0	TOOL KIT, GENERAL MECHANICS: AUTOMOTIVE	5180-00-177-7033	SC5180-90- CL-N-26
4	F	PLIERS, RETAINING		399
5	F, O	HANDLE, WRENCH		486-3-48
6	F, O	WRENCH, LUG NUT		1486-3-45

Section IV. REMARKS

Reference Code Remarks

A. Direct Support (F) maintenance includes replacement of repairable assemblies, repair of components or assemblies considered uneconomical to evacuate further, adjustments of systems for which organizational maintenance does not possess skills or test equipment.

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

C-3. EXPLANATION OF COLUMNS.

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

- a. <u>Column (1) Illustration Number (Illus. Number).</u> 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 assigned to the item and will be used for requisitioning purposes.
- c. <u>Column (3) Description</u>. = Indicates the Federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the FSCM (in parentheses) followed by the part number.

If item needed differs for different models, the model is shown under the "Usable On" heading in this column. These codes are identified as:

 Code
 Used on

 R0N
 XM1048

 R02
 XM1034

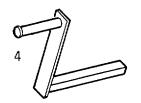
- d. <u>Column (4) Unit of Measure (U/M).</u> Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea., in, pr).
- e. Column (5) Quantity Required (Qty Rqr), Indicates the quantity of the item authorized to be used with/on the equipment.

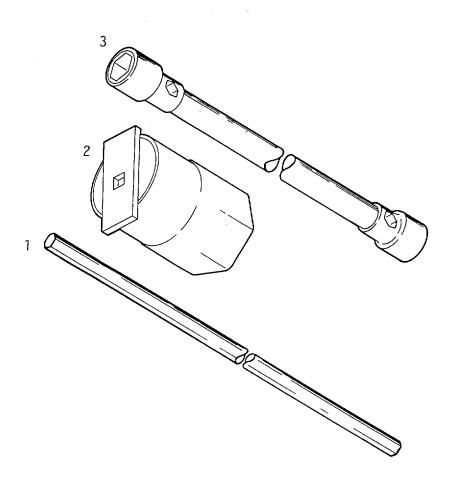
Section II. COMPONENTS OF END ITEM

(1)	(2) National	(3)		(4)	(5)
Illus. Number	Stock Number	Description FSCM and Part Number	Usable On Code	U/M	Qty Rqr
		NONE			

Section III. BASIC ISSUE ITEMS

(1)	(2) National	(3)		(4)	(5)
IIIus. Number	Stock Number	Description FSCM and Part Number	Usable On Code	U/M	Qty Rqr
1		Handle, Wrench (19207) 41-H-1511		EA	1
2		Wrench, Spindle Nut (79808)8182		EA	1
3		Wrench, Lug Nut (19207) 41-W-3838-30		EA	1
4		Crank Assy. RON (72869) EMD11983		EA	4
5		Crank Assy. R02 (72869) EMD70110		EA	4





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Figure C-1. Basic Issue Items

C-3/(C-4 blank)

APPENDIX D

ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

D-1. SCOPE.

This appendix lists additional items you are authorized for the support of the trailer.

D-2. GENERAL.

This list identifies items that do not have to accompany the trailer 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 LISTING.

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

Section II. ADDITIONAL AUTHORIZATION LIST

(1) National	(2) FSCM &	(3)	(4)	(5)	(6)
Stock Number	Part Number	Description	Usable On Code	U/M	Qty Auth

MTOE AUTHORIZED ITEMS

NONE

CTA AUTHORIZED ITEMS

NONE

D-1/(D-2 blank)

APPENDIX E

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

E-1. SCOPE.

This appendix lists expendable supplies and materials you will need to operate and maintain the trailer. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Supplies and Materials.

E-2. EXPLANATION OF COLUMNS.

- a. <u>Column (1) Item Number</u>. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "use cleaning compound, item 5, app. E").
 - b. Column (2)- Level. This column identifies the lowest level of maintenance that required-the 7isted item.

C	Operator/Crew
0	Organizational Maintenance
	Direct Support Maintenance
	General Support Maintenance

- c. <u>Column (3) National Stock Number</u>. This is the National stock number assigned to the item; use it to request or requisition the item.
- d. <u>Column (4)- Description.</u> Indicates the Federal item name and, if required, -a description to identify the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.
- e. <u>Column (5) Unit of Measure (U/M).</u> Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two character alphabetical abbreviation (e.g., ea, in., pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LISTS

(1)	(2)	(3)	(4)	(5)
ITEM		NATIONAL STOCK	DESCRIPTION	
NUMBER	LEVEL	NUMBER		U/M
1	F		Coating Aliphatic Polyurethane Chemical Agent Resistant: Forest Green MIL-C-46168B	GL
2	0	6850-00-664-5685 6850-00-281-1985	DRY CLEANING SOLVENT: (81348) PD-680 1-qt. can 1-gal. can	QT GL
3	С	9150-00-065-0029 9150-00-935-1017 9150-00-190-0904 9150-00-190-0907	GREASE, AUTOMOTIVE AND ARTILLERY; GAA (81349) MIL-G-10924 2-1/4 oz. tube 14 oz. cartridge 1-lb. can 35-lb. can	OZ OZ LB LB
4	С	9150-00-189-6727 9150-00-186-6681	LUBRICATING OIL, INTERNAL COMBUSTION ENGINE, OE (81349) MIL-L-2104 HD010, 1-qt.can HD030, 1-qt.can	QT QT
5	0	9150-00-402-2372 9150-00-402-4478	LUBRICATING OIL, INTERNAL COMBUSTION ENGINE (subzero)(81349) MIL-L-46167 1 qt. can 5 gal. can	QT GL
6	С	7920-00-205-1711	RAG, WIPING: cotton, white bleached, 50-lb. bale	LB
7	0	3439-00-964-6426	SOLDER, TIN ALLOY (81349) QQ-S-571, SN60	LB
8	0	8030-00-889-3534	TAPE, ANTI-SEIZE (81349) MIL-T-27730	EA
			E-2	

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LISTS-continued

(1)	(2)	(3)	(4)	(5)
ITEM NUMBER	LEVEL	NATIONAL STOCK NUMBER	DESCRIPTION	U/M
9	F		THINNER, ALIPHATIC POLY- URETHANE COATING (81349) MIL-T-81772	GL
10	0		PL-S, LUBRICATING OIL PRESERVATIVE, LOW TEM- PERATURE (VV-L-800)	
11	0		PL-M LUBRICATING OIL, PRESERVATIVE, MEDIUM (MIL-L-3150)	
12	0		PRIMER, (MIL-P-23377)	

E-3/(E-4 blank)

APPENDIX F

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

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 M544E Forklift Truck. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

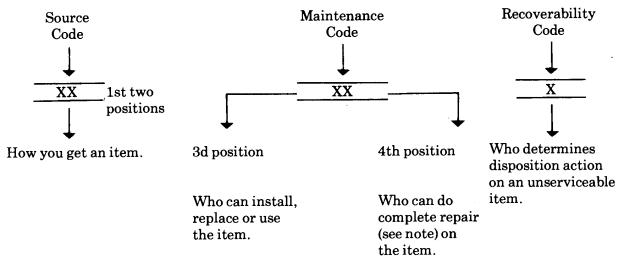
2. General.

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

- <u>a. Section II. Repair Parts List.</u> A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. Repair kits are listed separately in their own functional group within Section II. Repair parts for reparable special tools are also listed in the section. Items listed are shown on the associated illustration(s)/figure(s).
- <u>b.</u> <u>Section III.</u> <u>Special Tools List.</u> A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in 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. <u>SMR CODE (Column (2)).</u> The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instructions, as shown in the following breakout:



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

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

Code Application/Explanation

PA
PB
PC
PD
PE
PF
PG

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

Items coded PC are subject to deterioration.



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. The complete kit must be requisitioned and applied.

MO-Made at org/
AVUM category
MF-Made at DS/
AVUM category
MH-Made at GS
category
ML-Made at
Specialized
Repair Activity
(SRA)
MD-Made at Depot

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

AO —Assembled by
org/AVUM
category
AF —Assembled by
DS/AVUM
category
AH —Assembled by
GS category
AL —Assembled by
SRA
AD —Assembled by
Depot

Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance 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 the item is assembled at a higher level, order the item from the higher level of maintenance.

- XA Do not requisition an "XA"-coded item. Order its next higher assembly. (Also refer to the NOTE following.)
- XB If an "XB" item is not available from salvage, order it using the CAGE and part number given.
- Installation drawing, diagram, Instruction sheet, field service drawing, that Is Identified by the manufacturer's part number.
- XD Item is not stocked. Order an "XD"-coded item through normal supply channels using the CAGE and part number given, if no NSN is available.

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

- (2) <u>Maintenance</u> <u>Code.</u> 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>

Application/Explanation

- C Crew or operator maintenance done within unit maintenance or aviation unit maintenance.
- O Organizational or aviation unit category can remove, replace, and use the item.

Application/Explanation

- 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.

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

<u>Code</u>	Application/Explanation
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 than 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.
В-	No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B"-coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

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

<u>Code</u>	Application/Explanation
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.
Н-	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. <u>CAGEC (Column (3))</u>. 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.
- d. <u>PART NUMBER (Column (4))</u>. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

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

e. <u>DESCRIPTION AND USABLE ON CODE (UOC) (Column (5))</u>. 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 of the item is indicated by the parenthetical entry (<u>insert applicable physical classification abbreviation</u>, e.g., Phy Sec C1 (C) Confidential, Phy Sec C1 (s) Secret, Phy Sec C1 (T) Top Secret).
 - (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). Not Applicable.
 - (7) The usable on code, when applicable (see paragraph 5, Special Information).
- (8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.
- (9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.
- f. QTY (Column (6)). The QTY (quantity per figure column) Indicates the quantity of the item used in the breakout shown on the illustration/figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

F-4. Explanation of Columns (Section IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) <u>STOCK NUMBER column.</u> This column lists the NSN by National Item Identification Number (NIIN) sequence. The NIIN consists of the last nine digits

NSN

of the NSN (i.e., 5305-01-674-1467). When using

NIIN

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

- (2) <u>FIG. column.</u> 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) <u>ITEM column</u>. 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. <u>PART NUMBER INDEX</u>. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).
- (1) <u>CAGEC column</u>. 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) <u>PART NUMBER column</u>. 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) <u>STOCK NUMBER column</u>. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and CAGE columns to the left.
- (4) <u>FIG. column.</u> This column lists the number of the figure where the item is identified/located in Sections II and 111.
- (5) <u>ITEM column</u>. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

F-5. Special Information.

a. <u>USABLE ON CODE</u>. The usable on code appears in the lower left corner of the Description column heading. Not Applicable.

<u>Code</u>	<u>Used On</u>
R0N	XM1048
RO2	XM1034

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

- c. KITS. Line item entries for repair parts kits appear in group 9401 in Section II.
- d. <u>INDEX NUMBERS</u>. Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the National Stock Number/Part Number Index and the bulk material list in Section II.

F-6. How to Locate Repair Parts.

- a. When National Stock Number or Part Number is Not Known:
- (1) <u>First</u>. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.
 - (2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.
 - (3) Third. Identify the Item on the figure and use the Figure and Item Number Index to find the NSN.
 - b. When National Stock Number or Part Number is Known:
- (1) <u>First</u>. 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 4.<u>a</u>.(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see paragraph 4.<u>b</u>). Both indexes cross-reference you to the illustration/figure and item number of the item you are looking for.
- (2) <u>Second</u>. 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-8/(F-9 blank)

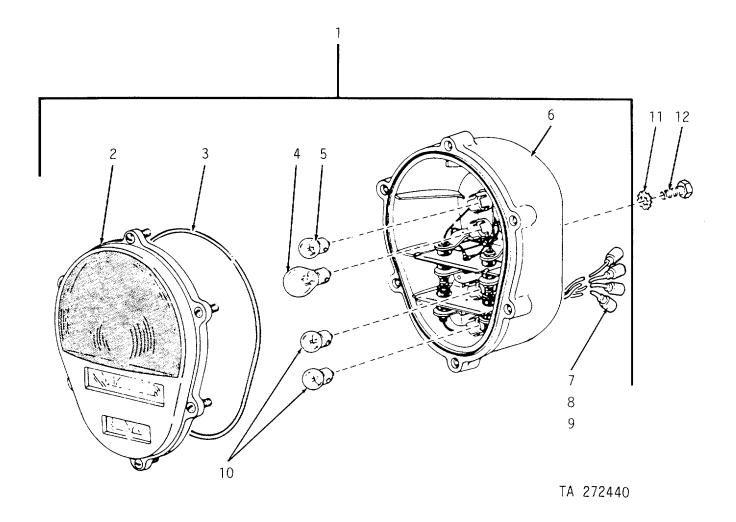
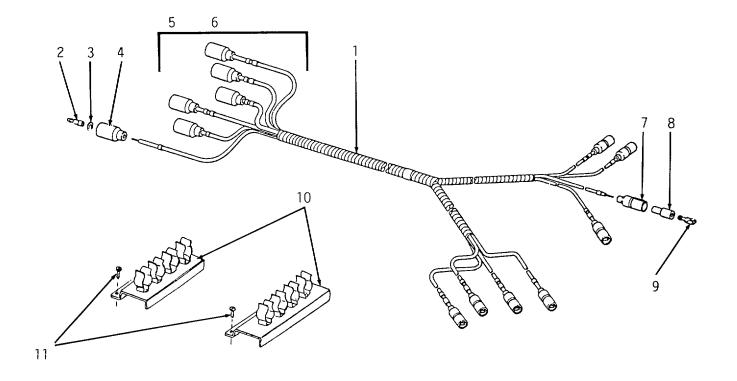
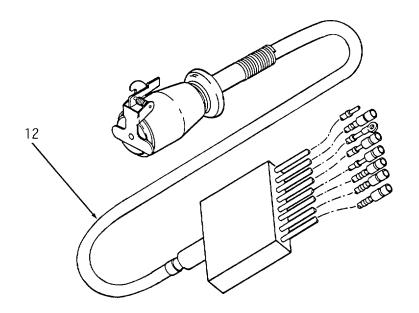


Figure 1. Composite Light

	SECTIO	N II		TM9-233	0-372-14&P
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 06 ELECTRICAL SYSTEM	
				GROUP 0609 LIGHTS	
				FIG.1 COMPOSITE LIGHT	
1	PA000	19207	11614157	STOP LIGHT-TAILLIGH	2
2	PAOZZ	19207	11639535	.LENS, LIGHT	
3	PAOZZ	19207	11639519-2	.PACKING, PREFORMED	1
4	PAOZZ	96906	MS35478-1683	.LAMP, INCANDESCENT	1
5	PAOZZ	96906	MS15570-623	.LAMP, INCANDESCENT	1
6	XAOZZ	19207	11639520	.BODY ASSEMBLY	1
7	PAOZZ	19207	8338566	.SHELL, ELECTRICAL CO	4
8	PAOZZ	19207	8338567	.WASHER, SLOTTED	4
9	PAOZZ	96906	MS27148-2	.CONTACT, ELECTRICAL	4
10	PAOZZ	96906	MS15510-1251	.LAMP, INCANDESCENT	2
11	PAOLZ	96906	MS35338-46	WASHER, LOCK	
12	PAOZZ	96906	MS90725-58	SCREW, CAP, HEXAGON H	4

END OF FIGURE



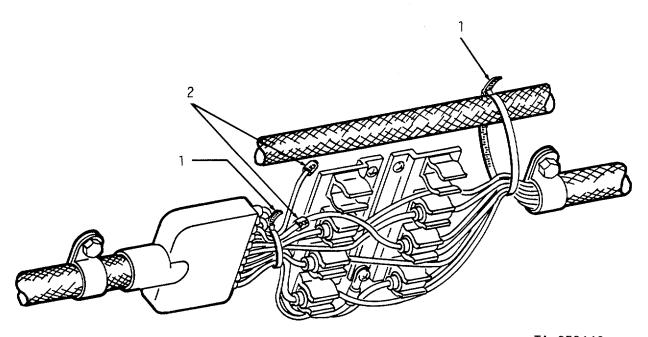


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Figure 2. Wiring Harness

SECTION II			TM9-2330-372-14		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 0613 CHASSIS WIRING HARNESS	
				FIG.2 WIRING HARNESS	
1 2 3 4 5	AOOOO 7 PAOZZ 9 PAOZZ 9 PAOZZ 9 MOOOO 7	96906 19207 19207	EMD11907 MS27148-2 8338567 8338566 EMD51431-5	WIRING HARNESS	6 6 6
6 7 8 9 10 11	MOOOOT PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ PFOZZ	19207 19207 19201 19207 96906	EMD51562-2 8338561 8338562 8338564 8747908-1 MS51851-85 10891263	LOOM MANUFACTUREU FRCM P/N E31 FSCM 98343) SHELL, ELECTRICAL INSULATOR, BUSHING TERMINAL ASSEMBLY LIP ASSEMBLY SCREW, TAPPING, THREA CABLE ASSEMBLY, POWE	1 8 8 8 2 4

END OF FIGURE



TA 272442

Figure 3. Wiring Harness Junction

	SECTION II			TM9-2330-372-		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)	
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY	
				GROUP 0613 CHASSIS WIRING HARNESS		
				FIG.3 WIRING HARNESS JUNCTION		
1 2	PAOZZ PAOLZ		MS3367-1-9 MS39020-1	STRAP, TIEDDOWN, ELECTBAND, MARKER		
				END OF FIGURE		

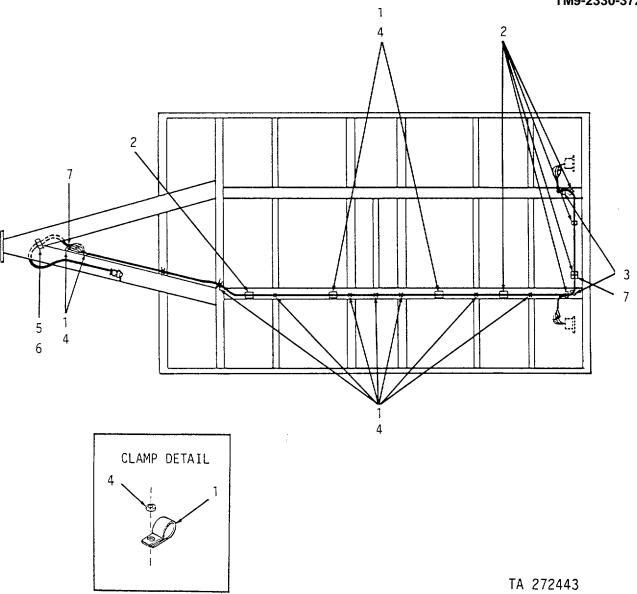
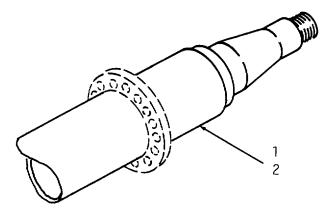


Figure 4. Wiring Harness Attaching Hardware

	SECTION II			TM9-2330-372-1		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)	
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY	
				GROUP 0613 CHASSIS WIRING HARNESS		
				FIG.4. WIRING HARNESS, ATTACHING HARDWARE		
1	PAOZZ	96906	MS21333-75	LAMP, LP	10	
2	PAOZZ	96906	MS35489-78	GROMMET, NONMETALLIC	7	
3	PAOZZ	96906	MS35489-107	GROMMET, NONMETALLIC		
4	PAOZZ	96906	MS51922-1	NUT, SELF-LOCKING, HE	10	
5	PAOZZ	96906	MS21333-77	LAMP, LP	1	
6	PAOZZ	96906	MS51851-64	SCREW, TAPPING, THREA		
7	PAOZZ	96906	MS90725-6	SCREW, CAP, HEXAGON H		

END OF FIGURE



TA 272444

Figure 5. Axle

	SECTIO)N II		TM9-23	30-372-14&P
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 11 REAR AXLE	
				GROUP 1100 REAR AXLE ASSEMBLY	
				FIG.5 AXLE	
1 2	PFFFF PFFFF	72869 72869	EMD12006 EMD12005	AXLE ASSEMBLY, VEHICAXLE TUBE ASSEPBLY	1 1
				END OF FIGURE	

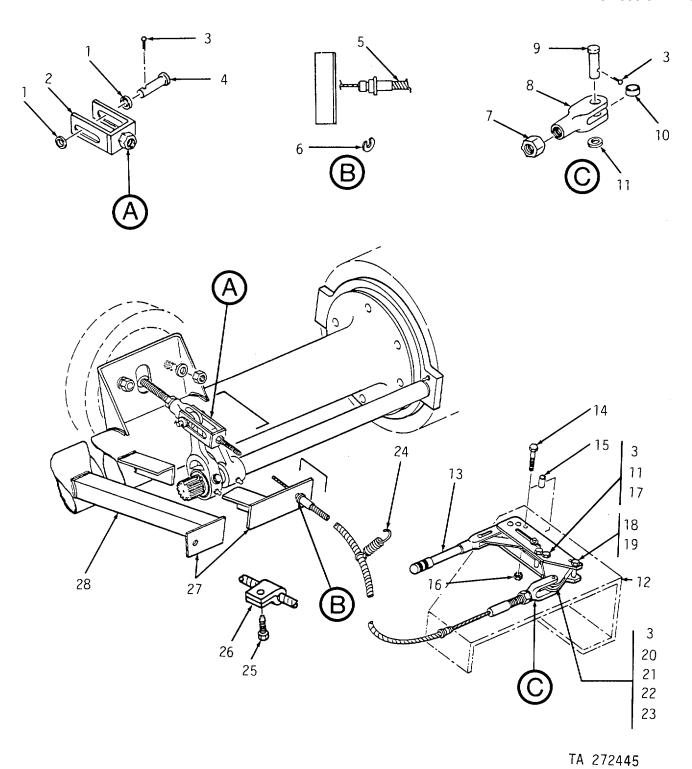


Figure 6. Hand Brake

(1) ITEM	SECTIO (2) SMR	N II (3)	(4) PART	TM9 (5))-2330-372-14&F (6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 12. BRAKES	
				GROUP 1201 HAND BRAKES	
				FIG.6 HAND BRAKES	
1 2 3 4 5	PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ	72869 96906 96906	MS27183-17 EMD111137 MS24665-283 MS35810-6 EMD58584	WASHER, FLAT CLEVIS, ROD END PIN, COTTER PIN, STRAIGHT, HEADED WIRE ROPE ASSEMBLY UOC: R0N	1 4 1 2
5	PAOZZ	72869	EMD54204	WIRE ROPE ASSEM BLY,UOC: RO2	
6 7 8 9 10 11 12 12 13 14 15 16 17 18 19 20 21 22 23 24	PAOZZ PAOZZ	96906 96906 96906 19207 96906 72869 72869 19207 96906 19207 96906 92867 92867 92867 92867 92867 92867	MS3215-4050 MS51968-8 MS35812-4 MS35810-4 8699500 MS27183-11 EMD56443 EMD56442 7392815 MS90725-67 81000136 MS51922-17 81001550 81000178 84002443 81000067 81000045 81000177 84000182 S-595	RING, RETAINING NUT, PLAIN, HEXAGON CLEVIS, ROD END PIN, STRAIGHT, HEADED SPACER, SLEEVE WASHER, FLAT BRACKET HANDBRAKE BRACKET, HANDBRAKE LEVER ASSY, PARKING SCREW, CAP.HEXAGON H BUSHING, SLEEVE NUT, SELF-LKING, HE LEVIS, ROD END BOLT NUT, SELF-LOCKING, HE BELL CRANK BUSHING, SLEEVE PIN, SRAIGHT, HEADED WASHER, FLAT SPRING, HELICAL, EXTE	
25	PAOZZ		MS51851-64	UOC: R02 SCREW, TAPPING, THREAUOC: R0N	
26	PAOZZ		MS21333-71	CLAMP, LOOPUOC: RON	
27	PAOZZ		EMD58585	SUPPORT BAR ASSY	
28 28	PAOZZ PAOZZ		EMD11706 EMD11705	BRACKET CABLEBRACKET CABLE	
20		1 2003	LIVID I I / UO	DIVACIVE I CADEL	1

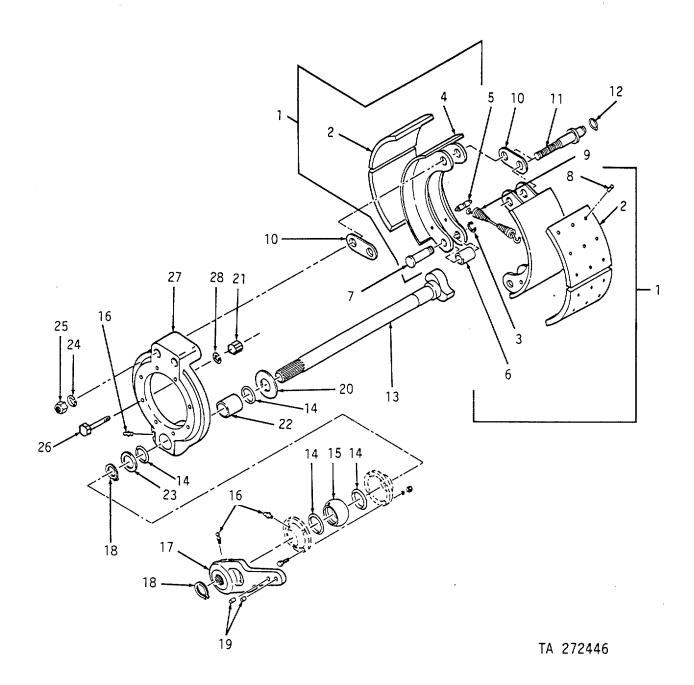


Figure 7. Service Brake

(1) ITEM	SECTION II (2) (3) I SMR	(4) PART	TM9- (5)	2330-372-14&P (6)
NO	CODE FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
			GROUP 1202 SERVICE BRAKES	
			FIG.7. SERVICE BRAKES	
1 2 3 4 5 6 7 8 9 10 11 2 13 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	PAOZZ 56697	201999-029-1 4536B MS16624-1075 201142 207100 204108-001 205107-001 404101-001 208106 999197 203110 MS16624-1100 2C2103-213R 2C2103-213L 443527SS1 405128 MS15003-1 212133 MS16624-1150 999242 403112 MS51968-14 405129 403107 MS35338-51 402101 401113 200101-001 MS35338-48	BRAKE SHOE LINING, FRICTION RING, RETANING SHOE BRAKE PIN, BRAKE SPRING ROLLER, LINEAR-ROTAR PIN, ROLLER RIVET SPRING LINK, ANCHOR, BRAKES PIN, ANCHOR RING, RETAINING AMSHAFT, ACTUATING, AMSHAFT, ACTUATING, SEAL, GREASE, CAM CAM BUSHING FITTING, LUBRICATION ADJUSTER, SLACK, BRAK RING, RETAINING BUSHING, SLEEVE WASHER, KEY NUT, PLAIL, HEXAGON BUSHING.SPIDER WASHER, LOCK ANCHOR PIN NUT BOLT, MACHINE SPIDER, BRAKE WASHER, LOCK	

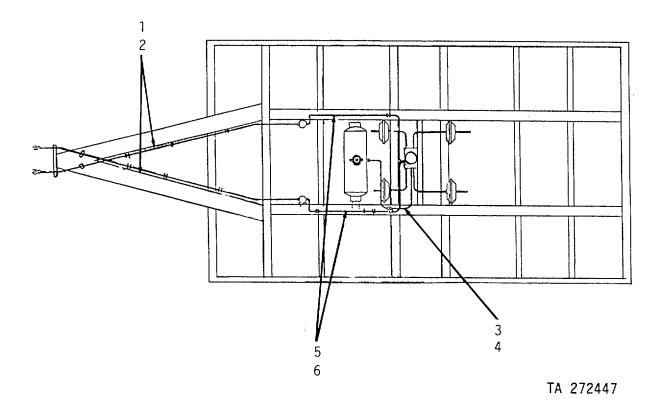


Figure 8. Air System

	SECTION II			TM9-2330-372-14&F			
(1) ITEM	(2) SMR	(3)	(4) PART	(5)			
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC) QTY			
				GROUP 1208 AIR BRAKE SYSTEM			
				FIG.8 AIR SYSTEM			
1	MOOZZ	72869	EMD58618	TUBING NYLCN MANUFACTURED FROM P/N2 NT100068K (FSCM 7947012			
2	MOOZZ	72869	EMD58620	LOOP MANUFACTURED FROM P/N E29A (FSCM 98343). 2			
3	MOOZZ	72869	EMD51051	TUBING NYLCN MANUFACTURED FROM P/N1 NT10008BK (FSCM 79470)1			
4	MOOZZ	72869	EMD51562-2	LOOM MANUFACTURED FROM P/N E31 (FSCM 98343) 1			
5	MOOZZ	72869	EMD58619	TUBING NYLCN MANUFACTURED FROM2			
				NT100068K (FSCM 79470)			
6	MOOZZ	72869	EMD58621	LOOM2			
				END OF FIGURE			

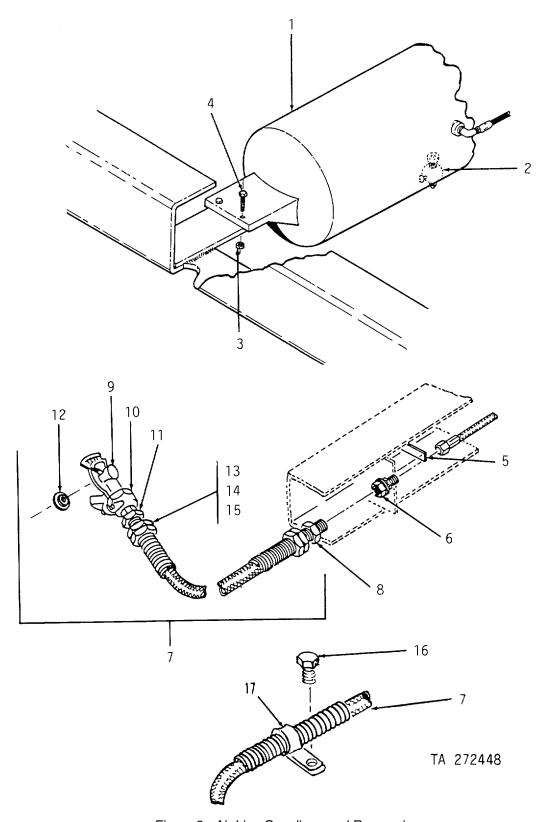


Figure 9. Air Line Couplings and Reservoir

	SECTION II			TM9-2330-372-14&P		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)	
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY	
				GROUP 1208 AIR BRAKE SYSTEM		
				FIG.9 AIR SYSTEM		
1	PFOZZ	06853	228746	TANK, PRESSURE	1	
2	PAOZZ		7759645	COCK, DRAIN	1	
3	PAOZZ	96906	MS51922-17	NUT, SELF-LOCKING		
4	PAOZZ	96906	MSS0725-64	SCREW, CAP, HEXAGON H		
5	PFOZZ	96906	MS53007-1	PLATE, IDENTIFICATIC		
5	PFOZZ	96906	MS53007-2	PLATE, IDENTIFICATIC		
6	PAOZZ	19207	5232954	COUPLING, PIPE		
7	PAOZZ	72869	EMD70088-2	HOSE ASSEMBLY, NOME		
8	PAOZZ	96906	MS39137-2	.ADAPTERSTRAIGHT, PI	1	
9	PAOZZ	96906	MS39134-1	.SPRING HOSE ADAPTER	2	
10	PAOZZ	96906	MS35746-1	.COUPLING HALF1CUICK	1	
11	PAOZZ	96906	MS3S133-2	.ADAPTER, STPAIGHT, PI	1	
12	PAOZZ	06853	213630	.PACKING PREFORMED		
13	PAOZZ	96906	MS39133-1	.ADAPTER, STRAIGHT, PI	1	
14	PAOZZ	96906	MS39136-1B	.SLEEVE, COMPRESSICN,		
15	PAOZZ	96906	MS39135-1B	.NUT, HOSE COUPLING		
16	PAOZZ	96906	MS51851-64	SCREW, TAPPING, THREA	2	

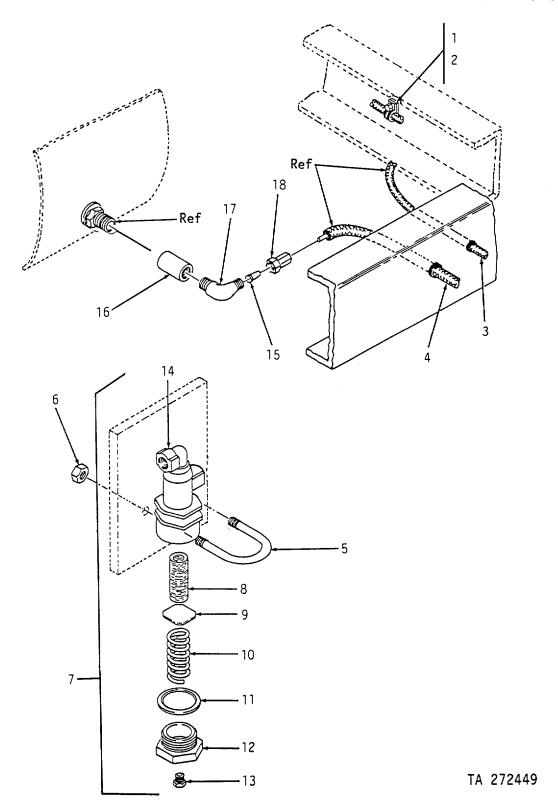
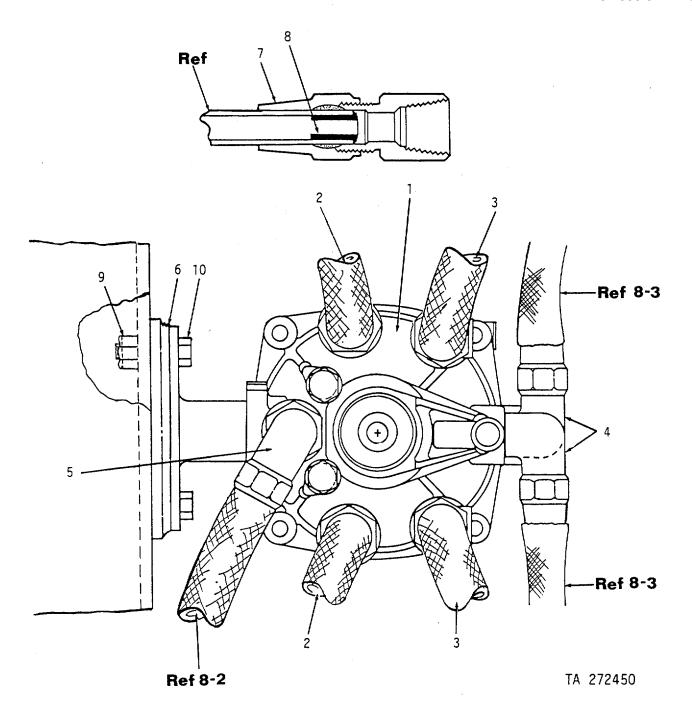


Figure 10. Air Lines and Filter

	SECTIO	N II		TMS	9-2330-372-14&P
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 1208 AIR BRAKE SYSTEM	
				FIG.10 AIR SYSTEM	
1	PAOZZ	96906	MS51922-1	NUT, SELF-LCCKING HE	12
2	PAOZZ	96906	MS21333-71	CLAMP LOOP	8
3	PAOZZ	96906	MS35489-78	GROMMET METALLIC	
4	PAOZZ	96906	M535489-107	GROMMET METALLIC	2
5	PAOZZ	19207	7579296	BOLT, U	
6	PAOZZ	96906	MS51967-2	NUT, PLAIN, HEXAGON	
7	PAOZZ		7411022	AIR FILTER, BRAKE LI	
8	PAOZZ		7411081	.FILTER ELEMENT FLUI	
9	PAOZZ		7579614	.WASHER, SPRING TENSI	
10	PAOZZ		7579612	.SPRING HELICAL COMP	
11	PAOZZ		8329823	.GASKET	
12	PAOZZ		MS209L3-1S	.PLUG, PIPE	
13	PAOZZ		7579613	.ADAPTER BUSHING	
14	XAOZZ		1415748	.ELBOW BODYMAIR LINE	
15	PAOZZ		1484X8	INSERT, TUBE FITTING	
16	PAOZZ		C3309X12	COUPLING PIPE	
17	PAOZZ		MS39182-4	ELBOW, PIPE TO TUBE	1
18	PAOZZ	96906	MS39179-5	ADAPTER STRAIGHT PI	1



NOTE: REFERENCES REFER TO FIGURE AND ITEM NUMBERS

Figure 11. Emergency Relay Valve

	SECTION II			TM9-2330-372-14&			
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)		
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY		
				GROUP 1208 AIR BRAKE SYSTEM			
				FIG.11 AIR SYSTEM			
1 2 3 4 5 6 7 8	PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ	06853 06853 96906 96906 06853 96906	MS53004-2 228549 228554 MS39182-3 MS39182-6 241871 MS39179-5 1484X6	PARTS KIT, MECHANICA TUBING ASSEMBLY, NON TUBING ASSEMBLY NON ELBOW, PIPE TO TUBE ELBOC, PIPE TO TUBE ADAPTER BRAKE VALVE ADAPTER STRAIGHT PI INSERT TUBE FITTING	2 2 1 1		
9 10	PAOZZ PAOZZ		MS51922-17 MS90725-64	NUT,SELF-LOCKING HESCREW CAP HEXAGON H	3		

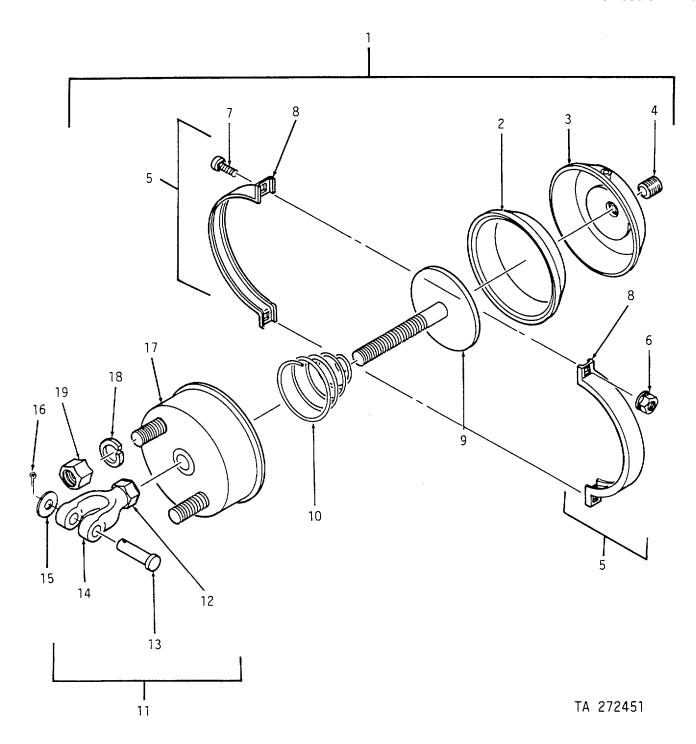


Figure 12. Brake Air Chamber

	SECTIO	N II		TM9-2330-3	372-14&P
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 1208 AIR BRAKE SYSTEM	
				FIG.12 AIR SYSTEM	
1 2 3 4 5 6 7 8 9 10 11 12	PFOOO PFOZZ XAOZZ PAOZZ PAOZZ PAOZZ PFOZZ PFOZZ PFOZZ PFOZZ	56697 56697 06853 56697 56697 56697 56697 56697 56697 96906	217030-054 217599-003 217999-904 212862 217999-903 402154 401169 217999-007 217999-906 21799-906 21799-900 MS35691-53	CHAMBER, AIR BRAKE .DIAPHRAGM, CHAPTER, B .PRESSURE HOUSING .BUSHING, PIPE .CLAMP.RIP CLENCHING .NUT, PLAIN.EXTENDED .BOLT, KEY FEA .CLAMP, RIM CLENCHING .PUSH ROD, TANK, PRESS .SPRING, HELICAL, CCMP .CLEVIS ASSEMBLY .NUT, PLAIN, HEXAGON	1 4 1 2 2 2 1 1 1 1
13 14 15 16 17 18	PFOZZ PFOZZ PAOZZ PAOZZ XAOZZ PAOZZ	56697 96906 96906 56697	411102 217999-008 MS27183-17 MS24665-353 217999-901 MS35338-50	PIN, STRAIGHT, HEADED	1 1 1 1
19	PAOZZ		MS51968-20	NUT PLAIN, HEXAGON	

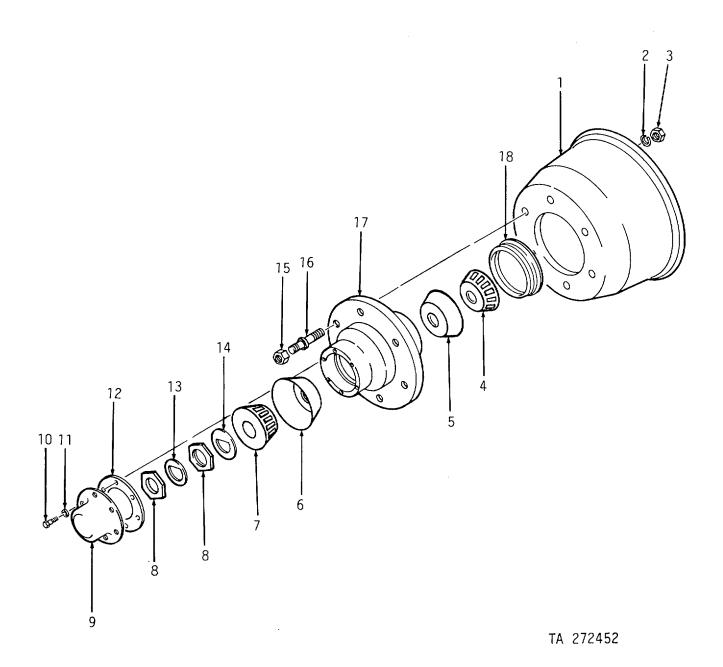


Figure 13. Hubs and Drums

	SECTION II			TM9-2330-372-14		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)	
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC	C) QTY	
				GROUP 13 WHEELS AND TRACKS		
				GROUP 1311 WHEEL ASSEMBLY		
				FIG.13 HUBS AND DRUMS		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 5 16 17 18	PFOFF PAOZZ	56697 96906 60038 60038 60038 56697 56697 96906 96906 26151 56697 56697 09386 09386 09386 56697	3061400-003 403161 MS51968-23 567 563 522 528 1C3100-001 304108 MS90728-29 MS35338-45 330-3024 105102 105103 37888 37889 95694 95693 300113-001 370-7006	BRAKE DRUM WASHER, LOCK NUT, PLAIN HEXAGON CONE AND ROLLERS, TA CUP, TAPERED ROLLER CUP, TAPERED ROLLER CONE AND ROLLERS, TA NUT, PLAIN HEXAGON HUB CAP, WHEEL BOLT, MACHINE WASHER, LOCK GASKET WASHER, KEYWAY WASHER, KEYWAY NUT, PLAIN, SINGLE BA NUT, PLAIN, SINGLE BA NUT, PLAIN, SINGLE A STUD, SHOULDERED STUD, SHOULDERED HUB, WHEEL, AUTOMOTIV GASKET AND SEAL SET		

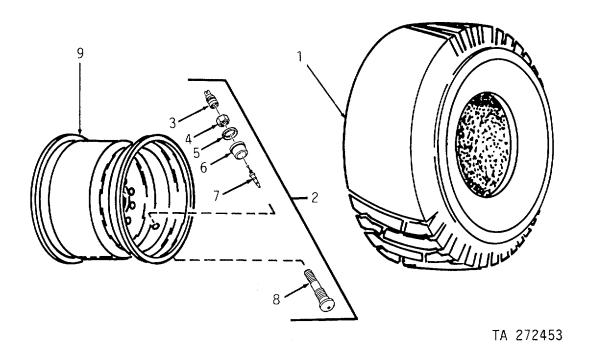


Figure 14. Wheels and Tires

(1) ITEM	SECTIO (2) SMR	ON II (3)	(4) PART	(5)	TM9-2330-372-14&P (6)
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (U	IOC) QTY
				GROUP 1311 WEEEL ASSEMBLY	
				FIG.14 WHEELS AND TIRES	
1	PAOZZ	73842	181-854-623	TIRE, PNEUMATIC	4
1	PAO7Z	81348	ZZ-I-381P/12-16. 5/GP2A/E/LTHR	TIRE, PNEUMATIC	4
2	PAOZZ	96906	MS51368-2	VALVE, PNEUMATIC TIR	4
3	PAOZZ	81348	ZZ-V-25/TYPE IV/C LAS1/TR-VC-2	.CAP, PNEUMATIC VALVE	
4	XAOZZ	79934	595-4	.NUT	1
5	XAOZZ	79934	595-2	.WASHER	1
6	XAOZZ	79934	5S5-3	.GROMMET	2
7	PAOZZ		5405	.VALVE CCRE	
8	XAOZZ		501-1	.STEM VALVE	
9	PAOZZ	19207	11592642	WHEEL, PNEUMATIC TIR	4

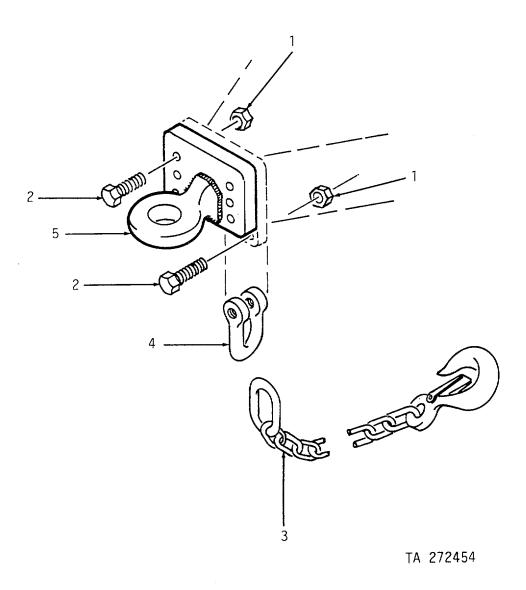


Figure 15. Lunette and Safety Chains

(1) ITEM	SECTIO (2) SMR	N II (3)	(4) PART	TM9-2330-3 (5)	72-14&P (6)
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 15 FRAME, TOWING ATTACHMENTS	
				GROUP 1503 TOWING ATTACHMENTS	
				FIG.15 LUNETTE AND SAFETY CHAINS	
1 2 3 4 5	PAOZZ PAOZZ PAOZZ PAOZZ PFOZZ	96906 72869 19207	MS51967-23 MS90728-192 EMD58381 10851283 EMD11709	NUT, PLAIN HEXAGON SCREW, CAP, HEXAGON H CHAIN ASSEMBLY, SING SHACKLE COUPLER, DRAW BAR RIN	6 2 2

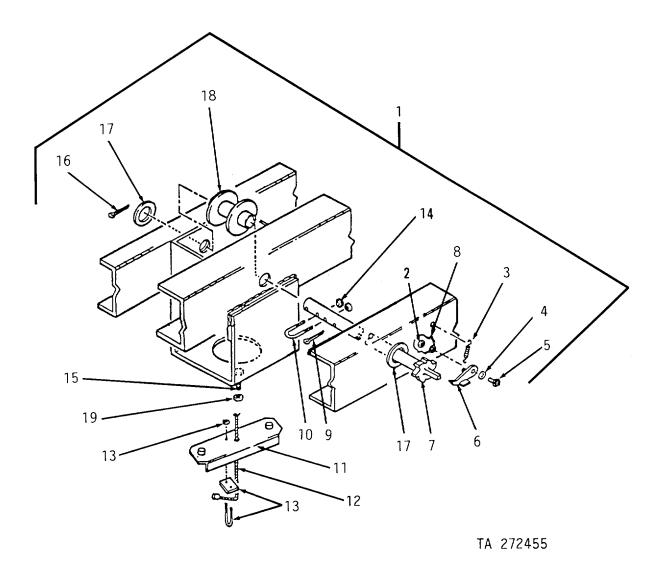


Figure 16. Spare Tire Carrier

	SECTIO	N II		TM9-2	330-372-14&P
(1)	(2)	(3)	(4) PART	(5)	(6)
ITEM NO	SMR CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 1504 SPARE WHEEL CARRIER	
				FIG.16 SPARE TIRE CARRIER	
1	PA000	72861	EMD70106	SPARE TIRE CARRIER	1
2	PAOZZ	96906	MS51967-14	.NUT, PLAIN, HEXAGON	2
3	PAOZZ	56988	523	.SPRING, HELICAL COMP	1
4	PAOZZ	96906	MS27183-17	.WASHER, FLAT	2
5	PAOZZ	96906	MSS0725-113	.SCREW, CAP, HEXAGON H	1
6	PAOZZ	72869	EMD50175	.PAWL	1
7	PAOZZ	72869	EMD70107	SHAFT, RATCHET	1
8	PAOZZ	75535	S264	.PAD EYE	
9	PAOZZ		MS24665-534	.PIN, CCTTEP	
10	PAOZZ		11636665	.BOLT, U	1
11	PAOZZ		EMD70041	.SUPPORT ASSY	
12	PAOZZ	. =000	EMD7570	.ROPE, WIRE	
13	PAOZZ		MS16842-4	.CLAMP, WIRE ROPE, SAD	1
14	PAOZZ		MS51922-1	.NUT, SELF-LOCKING, HE	
15	PAOZZ		MS90727-188	.SCREW, CAP, HEXAGON	
16	PAOZZ		MS24665-655	.PIN, COTTER	
17	PAOZZ		MS527183-29	.WASHER, FLAT	
18	PAOZZ		EMD70037	.SPCOL WELDMENT	
19	PAOZZ	09386	37888	.NUT, PLAIN SINGLE BA	2

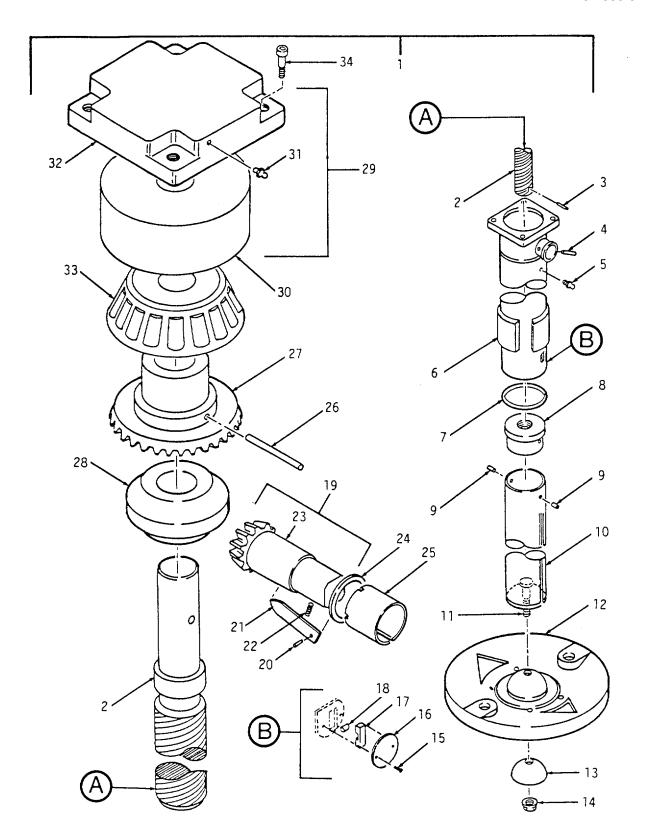


Figure 17. Leveling Jack TA 272456

NO CODE CAGEC NUMBER DESCRIPTION AND USABLE ON CODES (UOC) QTY	(1) ITEM	SECTIO (2) SMR	N II (3)	(4) PART	(5)	M9-2330-372-14&P (6)
FIG.17 LEVELING JACK 1 PAOOF 72869 EMD11976 JACK, LEVELING-SUPPO REF UOC:R0N 1 PFOOO 19207 10950503 JACK, LEVELING-SUPPO 4			CAGEC		DESCRIPTION AND USABLE ON CODES (UO	C) QTY
1 PAOOF 72869 EMD11976 JACK, LEVELING-SUPPO REF 1 PFOOO 19207 10950503 JACK, LEVELING-SUPPO 4 1 UGC:R02 UGC:R02 1 2 PFOZZ 19207 10950508 SCREW, LEVELING JACK 1 3 PFOZZ 96906 MS35674-28 PIN, GROOVED, HEADLES 1 4 PFOZZ 96906 MS35671-56 PIN, GROOVED HEADLES 1 5 PAOZZ 96906 MS15001-1 FITTING, LUBRICATION 1 6 XAOZZ 72869 EMD11956 HOUSING ASSEMBLY 1 0CC: R0N 1 UOC: R0N 1 6 XAOZZ 19207 109550504 HOUSING ASSY 1 1 UOC:R02 1 1 7 PFOZZ 19207 8683884 SEAL, RUBBER STRIP 1 8 PFOZZ 19207 108885450 NUT, SCREW, LEVELING 1 9 PFOZZ 96906 MS35677-51 PIN, GROOVED, HEADLES 2					GROUP 1507 LANDING GEAR	
UOC:R0N 1 PFOOO 19207 10950503 JACK, LEVELING-SUPPO					FIG.17 LEVELING JACK	
1 PFOOO 19207 10950503 JACK, LEVELING-SUPPO 4 2 PFOZZ 19207 10950508 SCREW, LEVELING JACK 1 3 PFOZZ 96906 MS35674-28 PIN, GROOVED, HEADLES 1 4 PFOZZ 96906 MS35671-56 PIN, GROOVED HEADLES 1 5 PAOZZ 96906 MS15001-1 FITTING, LUBRICATION 1 6 XAOZZ 72869 EMD11956 HOUSING ASSEMBLY 1 0C: R0N UOC: R0N 6 XAOZZ 19207 109550504 HOUSING ASSY 1 0C:R02 1 UOC:R02 7 PFOZZ 19207 8683884 SEAL, RUBBER STRIP 1 8 PFOZZ 19207 108885450 NUT, SCREW, LEVELING 1 9 PFOZZ 96906 MS35677-51 PIN, GROOVED, HEADLES 2	1	PAOOF	72869	EMD11976		REF
2 PFOZZ 19207 10950508 .SCREW, LEVELING JACK. 1 3 PFOZZ 96906 MS35674-28 .PIN, GROOVED, HEADLES. 1 4 PFOZZ 96906 MS35671-56 .PIN, GROOVED HEADLES. 1 5 PAOZZ 96906 MS15001-1 .FITTING, LUBRICATION. 1 6 XAOZZ 72869 EMD11956 .HOUSING ASSEMBLY. 1 UOC: R0N 1 6 XAOZZ 19207 109550504 .HOUSING ASSY. 1 UOC:R02 1 .SEAL, RUBBER STRIP. 1 7 PFOZZ 19207 108885450 .NUT, SCREW, LEVELING. 1 9 PFOZZ 96906 MS35677-51 .PIN, GROOVED, HEADLES. 2	1	PFOOO	19207	10950503	JACK, LEVELING-SUPPO	4
3 PFOZZ 96906 MS35674-28 .PIN, GROOVED, HEADLES. 1 4 PFOZZ 96906 MS35671-56 .PIN, GROOVED HEADLES. 1 5 PAOZZ 96906 MS15001-1 .FITTING, LUBRICATION. 1 6 XAOZZ 72869 EMD11956 .HOUSING ASSEMBLY. 1 UOC: R0N .HOUSING ASSY. 1 7 PFOZZ 19207 8683884 .SEAL, RUBBER STRIP. 1 8 PFOZZ 19207 108885450 .NUT, SCREW, LEVELING. 1 9 PFOZZ 96906 MS35677-51 .PIN, GROOVED, HEADLES. 2	2	PF0 <i>77</i>	19207	10950508		1
4 PFOZZ 96906 MS35671-56 .PIN, GROOVED HEADLES 1 5 PAOZZ 96906 MS15001-1 .FITTING, LUBRICATION 1 6 XAOZZ 72869 EMD11956 .HOUSING ASSEMBLY 1 00C: R0N .HOUSING ASSY 1 1 UOC: R02 7 PFOZZ 19207 8683884 .SEAL, RUBBER STRIP 1 8 PFOZZ 19207 108885450 .NUT, SCREW, LEVELING 1 9 PFOZZ 96906 MS35677-51 .PIN, GROOVED, HEADLES 2						
5 PAOZZ 96906 MS15001-1 .FITTING, LUBRICATION 1 6 XAOZZ 72869 EMD11956 .HOUSING ASSEMBLY 1 UOC: R0N .HOUSING ASSY 1 1 UOC:R02 .DOC:R02 .SEAL, RUBBER STRIP 1 8 PFOZZ 19207 108885450 .NUT, SCREW, LEVELING 1 9 PFOZZ 96906 MS35677-51 .PIN, GROOVED, HEADLES 2						
6 XAOZZ 72869 EMD11956 .HOUSING ASSEMBLY 1 0 UOC: R0N 6 XAOZZ 19207 109550504 .HOUSING ASSY 1 UOC:R02 1 UOC:R02 7 PFOZZ 19207 8683884 .SEAL, RUBBER STRIP 1 8 PFOZZ 19207 108885450 .NUT, SCREW, LEVELING 1 9 PFOZZ 96906 MS35677-51 .PIN, GROOVED, HEADLES 2						
UOC: R0N 6 XAOZZ 19207 109550504 .HOUSING ASSY						
6 XAOZZ 19207 109550504 .HOUSING ASSY	Ŭ	701022	. 2000	21112 1 1000		
UOC:R02 7 PFOZZ 19207 8683884 .SEAL, RUBBER STRIP	6	XAO77	19207	109550504		1
7 PFOZZ 19207 8683884 .SEAL, RUBBER STRIP	Ŭ	701022	.020.	100000001		
8 PFOZZ 19207 108885450 .NUT, SCREW, LEVELING	7	PFOZZ	19207	8683884		1
9 PFOZZ 96906 MS35677-51 .PIN, GROOVED, HEADLES2		_				
	_					
	-				.TUBE JACK LEVELING	1
11 XAOZZ 96906 MS90726-163 .BOLT						
12 PFOZZ 19207 8005089 .SHOE, VEHICLE SUPPOR						
13 PFOZZ 18876 8020015 .RETAINER, BELL, JACK						
14 PAOZZ 96906 MS51922-53 .NUT SELF-LOCKIN HE						
15 PFOZZ 96906 MS35206-229 .SCREW, MACHINE						
16 PFOZZ 19207 10885448 .COVER ACCESS						
17 PFOZZ 19207 10885443 .KEY, HOUSING LEVELING					KEY, HOUSING LEVELING	1
18 PFOZZ 19207 10885446 .SEAL KEY, JACK HOUSI					SEAL KEY, JACK HOUSI	1
19 PBOOZ 19207 10885478 .GEARSHAFT ASSEMBLY,					GEARSHAFT ASSEMBLY.	1
20 PFOZZ 96906 MS39086-93PIN, SPRING						
21 XDOZZ 19207 7520777LATCH					,	
22 XDOZZ 19207 7696416SPRING, HELICAL, COMP						
23 XAOZZ 19207 7520829GEARSHAFT, BEVEL						
24 PFOZZ 19207 7328402 .BEARING WASHER, THRU	~ 4	5555	4000=	T 000 400	BEARING WASHER, THRU	1
25 PFOZZ 19207 7520775 .BUSHING, SLEEVE 1	25					
26 PFOZZ 73957 GP5-312X2000-18 .ROD, STRAIGHT HEADLE					.ROD. STRAIGHT HEADLE	1
27 PFOZZ 19207 7520774 .GEAR BEVEL						
28 PFOZZ 19207 7328405 .COLLAR, THRLST						
29 PFOZZ 19207 10891299 COVER, ACCESS					COVER, ACCESS	1
30 XAOZZ 60038 53387CUP TAPERD ROLLER					CUP TAPERD ROLLER	1
31 PAOZZ 96906 MS15003-1 .FITTING, LUBRICATION						
32 XAOZZ 19207 7328401COVER GEAR HOUSING 1						
33 PFOZZ 60038 53176 .CONE AND ROLLERS,TA						
34 PAOZZ 96906 MS16997-142 .SCREW, CAP SOCKET HE	34	PAOZZ	96906	MS16997-142	.SCREW, CAP SOCKET HE	4

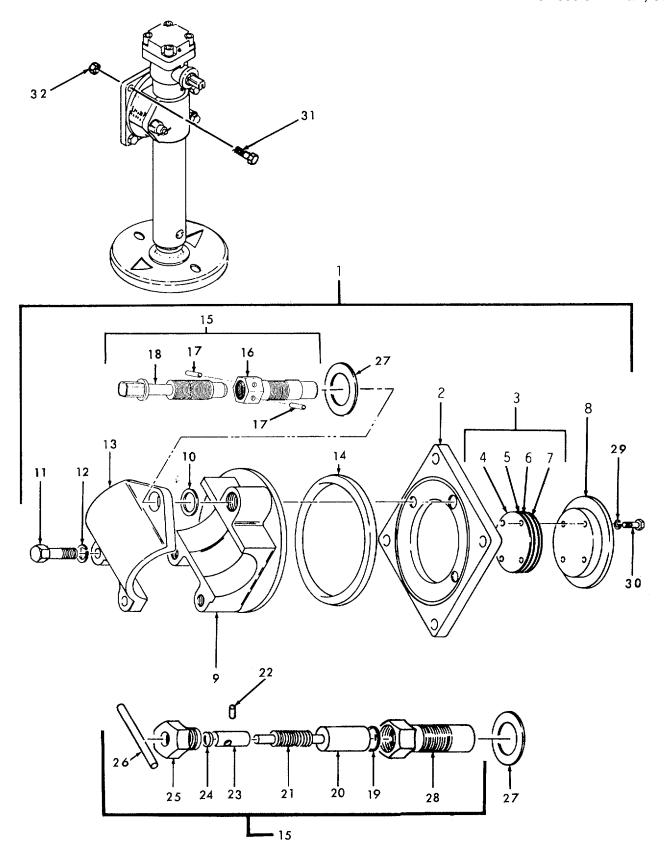


Figure 18. Swivel Assembly

(1) ITEM	SECTIO (2) SMR	N II (3)	(4) PART	(5)	M9-2330-372-14&P (6)
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UO	C) QTY
				GROUP 1507 LANDING GEAR	
				FIG.18 SWIVEL ASSEMBLY	
1	PFOOO	72869	EMD11977	SWIVEL ASSEMUOC:R0N	REF
1	PFOOO	19207	10916520	SWIVEL ASSYUOC:R02	4
2	PFOZZ	19207	10916523	.BASE, SWIVEL ASSEML	1
3	PFOZZ		10916511	.SHIM SET	
4	PFOZZ		10916511-4	SHIM	
5	PFOZZ	19207	10916511-3	SHIM	4
6	PFOZZ	19207	10916511-2	SHIM	2
7	PFOZZ	19207	10916511-1	SHIM	1
8	PFOZZ	19207	10916524	.PLATE	1
9	PFOZZ	19207	10916522	.BASE	1
10	PAOZZ	19207	10916533	.GASKET	1
11	PAOZZ		MS90727-164	.SCREW, CAP, HEXAGON H	2
12	PAOZZ		MS35338-50	.WASHER, LOCK	
13	PFOZZ		10916527	.CAP	
14	PAOZZ		MS29513-268	.PACKING PREFORMED	
15	PFOZZ	72869	EMD58377	.SWIVEL LOCK ASSYUOC:R0N	
15	PFOZZ	19207	10916521	PIN, ASSEMBLY	
10		10201	10010021	UOC:R02	
16	XAOZZ	72869	EMD58330	HOUSING PIN LOCK	1
.0	70.022	. 2000	2111200000	UOC:R0N	
17	XAOZZ	96906	MS16562-252	PIN, SPRING	2
				UOC:R0N	
18	PFOZZ	72869	EMD58328	PIN, SHOULDER, HEADLE	1
19	PFOZZ	96906	MS29513-022	PACKING PREFORMED	2
				UOC: R02	
20	PFOZZ	19207	10916516	PIN, SHOULDER, HEADLEUOC :R02	1
21	PFOZZ	19207	10916515	SPRING, HELICAL, COMP	1
				UOC:R02	
22	PFOZZ	96906	MS171556	PIN, SPRING	1
23	PFOZZ	19207	10916531	UOC:R02 SLEEE	1
24	PFOZZ	96906	MS28775-011	UOC: R02 PACKING, PREFORMED	1
				UOC: R02	
25	PFOZZ	19207	10916534	REDUCER, TUBE UOC:R02	1
26	PFOZZ	96906	MS171668	PIN, SPRING	1
27	PFOZZ	19207	8737726	UOC:R02 WASHER, LOCK	1

(1) ITEM	SECTIO (2) SMR	N II (3)	(4) PART	T M 9-	TM9-2330-372-14&P (6)	
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY	
28	PFOZZ	19207	10916514	.BOLT INTERNALLY RELUOC:R02	1	
29	PAOZZ	96906	MS35338-46	.WASHER LOCK	4	
30	PAOZZ	96906	MS90727-60	.SCREW CAP, HEXAGON H	2	
31	PAOZZ	96906	MS90728-188	SCREW.CAP HEXAGON H	15	
32	PAOZZ	96906	MS51967-23	NUT PLAIN, HEXAGON	16	

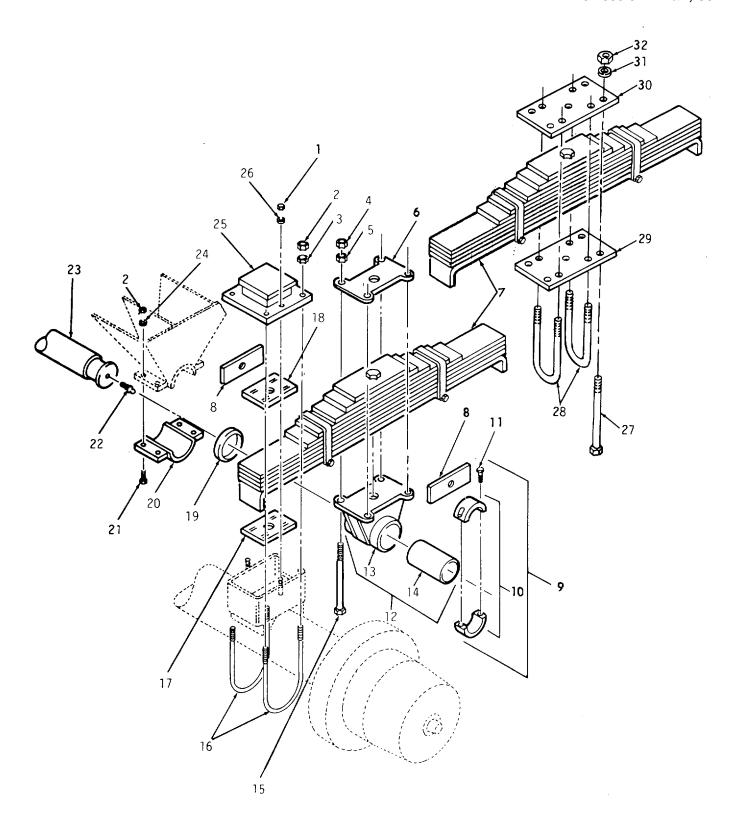
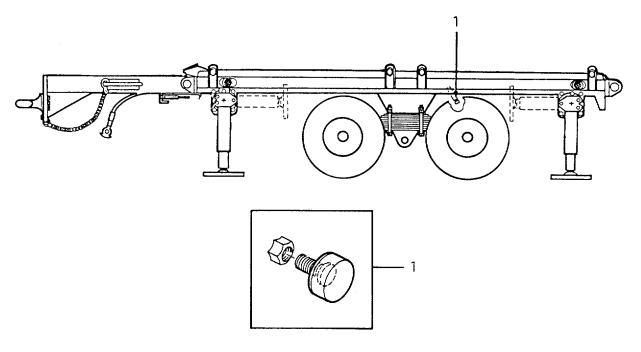


Figure 19. Spring Assembly

(1) ITEM	SECTIO (2) SMR	ON II (3)	(4) PART	(5)	19-2330-372-14&P (6)
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UO	C) QTY
				GROUP 16 SPRINGS	
				GROUP 1601 SPRINGS	
				FIG.19 SPRING ASSEMBLY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	PAFZZ PAFZZ PFFZZ PFFFF PFFZZ PFFZZ PAFZZ	96906 96906 96906 96906 72669 72869	MS51968-14 MS51968-20 MS35691-53 MS51968-26 MS35691-69 EMD56699 EMD40972 EMD41143 EMD70109-1 MS16998-76 EMD11740 EMD11739 EMD41149 EMD53490 EMD400976 EMD40075 EMD40075 EMD40073 EMD40428 EMD70080 MS90727-164 MS15003-1 EMD41108 MS35338-50 EMD70084 MS35338-48 EMD 58760 EMD 58762	NUT, PLAIN, HEXAGON. NUT, PLAIN, HEXAGON. NUT, PLAIN, HEXAGON UOC:R02	
29	PAFZZ		EMD 58759-2	TRUNNION PLATEUOC:RON	2
30	PAFZZ		EMD 58759-1	TRUNNION PLATEUOC: RON	
31 32	PAFZZ PAFZZ		MS 27183-26 MS 51943-48	WASHER FLAT UOC: RON NUT, SELF-LOCK UOC:RON	



TA 272459

Figure 20. Frame Components

	SECTION II			TM9-2330-372-14&P		
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)	
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY	
				GROUP 18 BODY		
				GROUP 1801 BODY		
				FIG.20 FRAME CCMPCNENTS		
1	PAOZZ	19207	10914500	BUMPER RUBBER	4	
				END OF FIGURE		

20-1

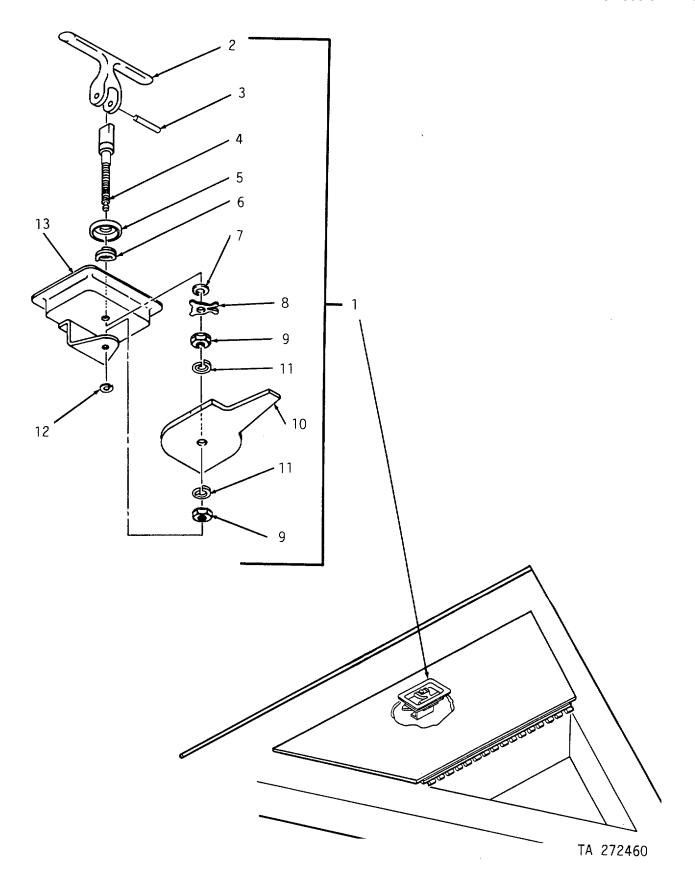
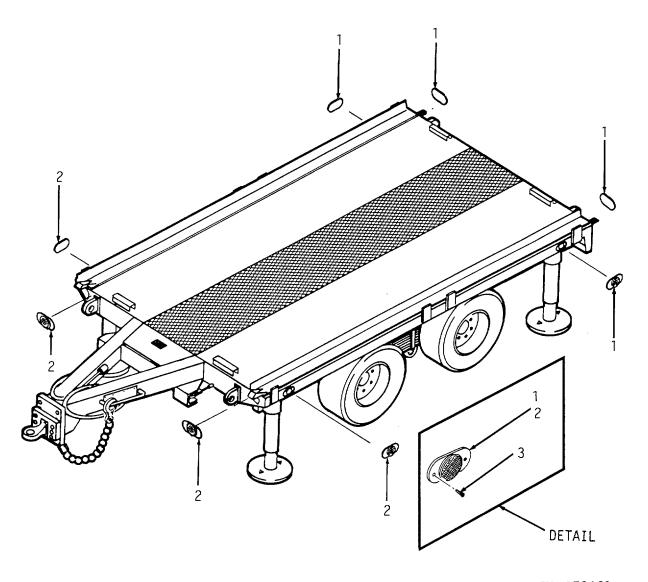


Figure 21. Tool Box

	SECTION II			TM9-2330-372-148	
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 1805 FLOORS ANC RELATED COMPONENTS	
				FIG.21 TOOL BOX	
1	PFOOZ	19220	8000	FASTENER, PAL	1
2	PFOZZ	19220	5630-OAX	.HANDLE, DOOR	1
3	PFOZZ	19220	27X345E	.PIN, STRAIGHT HEADLE	1
4	PFOZZ	19220	8000-1	.STUD, THREADED	1
5	PFOZZ	19220	15592	SPACE RING	
6	PFOZZ	19220	15595	.SPRING HELICAL , COMP	
7	PFOZZ		11X-138	.WASHER FLAT	
8	PFUZZ		8000-5	WASHER	
9	PFOZZ		5X252	.NUT	
10	PFOZZ		8000-2	.LATCH	
11	PFOZZ		12X-199	.WASHER LOCK	
12	PFOZZ		11307-3	.CLIP RETAIER	
13	XAOZZ	19920	8000-50	.HOUSING	1

21-1

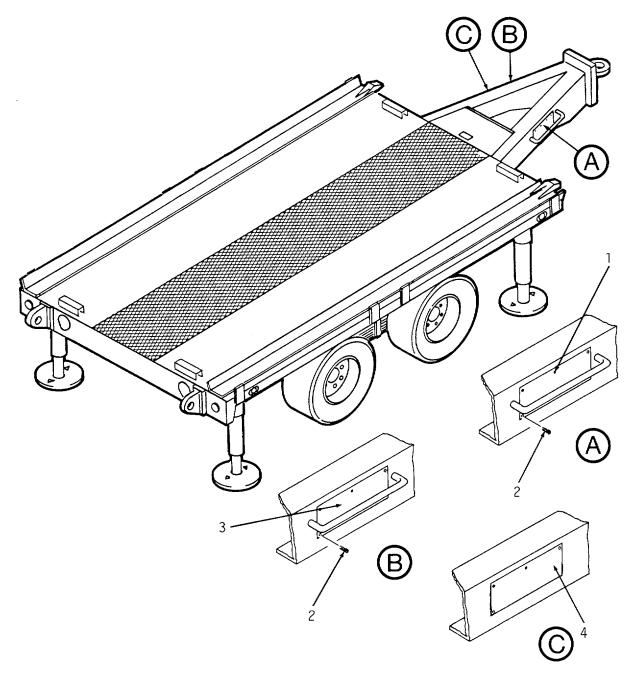


TA 272461

Figure 22. Reflectors

	SECTIO	N II		TM9-23	30-372-14&P
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
				GROUP 22 BODY ACCESSORY ITEMS	
				GROUP 2202 ACCESSORY ITEMS	
				FIG.22 REFLECTCRS	
1 2 3	PAOZZ PAOZZ PAOZZ	96906	MS35387-1 MS35387-2 MS35266-63	REFLECTOR, INDICATIN REFLECTOR, INDICATIN SCREW, MACHINE	4

END OF FIGURE



TA 272462

Figure 23. Data Plates

(1) ITEM	SECTIO (2) SMR	N II (3)	(4) PART	TM9-2330-372-148	ķΡ
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC) QTY	
				GROUP 2210 DATA PLATES	
				FIG.23 DATA PLATES	
1	PFOZZ	72865	EMD58389	PLATE INSTRUCTION 1 UOC:R0N	
1	PFOZZ	72869	EMD40479	PLATE INSTRUCTION 1 UOC:R02	
2	PAOZZ	96906	MS21318-27	SCREW DRIVE15	
3	PFOZZ	72869	EMD58370	DATA PLATE 1	
				UOC:R0N	
3	PFOZZ	72869	EMD56138	PLATE IDENTIFICATION 1 UOC:R02	
4	PFOZZ	72869	EMD58641	MARKER IDENTIFICATION 1 UOC:R0N	
				END OF FIGURE	
				GROUP 95 - GENERAL USE STANDARDIZED PARTS	
				GROUP 9501 - BULK MATERIAL	
1 2 3 4 5	PAOZZ PAOZZ PAOZZ PAOZZ PAOZZ	98343 79470 79470	E31 E29A NT100068K NT100088K 7720853	SLEEVING TEXTILE, EL	

END OF FIGURE

	SECTIO	N II		TM9-233	30-372-14&P
(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY

(NOT APPLICABLE)

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NATIONAL STOCK NUMBER INDEX STOCK NUMBER FIG. **ITEM** STOCK NUMBER FIG. **ITEM** 6240-00-019-0877 5310-00-209-0698 6240-00-019-3093 4730-00-221-2136 2530-00-021-2360 5310-00-225-6408 4730-00-034-3703 5306-00-226-4822 5315-00-234-1634 5305-00-042-6417 6240-00-044-6514 4030-00-243-4438 5340-00-050-2740 5330-00-250-0230 4730-00-050-4203 5305-00-253-5618 4730-00-050-4208 5330-00-263-8007 5340-00-264-8839 5305-00-269-3214 5340-00-057-2904 5305-00-269-3217 5999-00-057-2929 5310-00-273-7771 5325-00-276-6098 2640-00-060-3550 4730-00-278-6319 5315-00-067-5003 5315-00-068-2498 4730-00-278-8257 4730-00-069-1186 5330-00-285-5123 4730-00-289-0051 4730-00-069-1187 2530-00-330-3262 4030-00-075-7212 1440-00-341-2387 5340-00-075-9147 2530-00-371-4105 2530-00-374-2118 2590-00-076-0050 5340-00-076-1943 5940-00-399-6676 5310-00-087-4652 5365-00-400-3403 5310-00-407-9566 4730-00-409-7854 5310-00-088-1251 5306-00-446-8737 5310-00-455-0288 5330-00-462-0907 5330-00-090-2128 5315-00-489-0281 3110-00-100-0269 2010-00-489-8065 3110-00-100-0286 2590-00-529-6199 3110-00-100-0323 5365-00-530-7968 3110-00-100-0328 2640-00-555-2829 5315-00-140-1938 3020-00-571-6104 5935-00-572-9180 4820-00-142-3036 3110-00-142-4351 5306-00-152-0562 4730-00-580-8457 5325-00-174-9325 5330-00-582-2133 2590-00-582-5503 2530-00-178-0720 5310-00-584-7888 6220-00-179-4324 5310-00-594-8038 5315-00-187-9414 5305-00-187-9934 4730-00-595-0083 5305-00-191-3640 5305-00-614-0246 9905-00-202-3639 5310-00-679-3606 4730-00-202-6491 5315-00-690-0544 9905-00-205-2795 5360-00-706-9054

NATIONAL STOCK NUMBER INDEX STOCK NUMBER FIG. **ITEM** FIG. **ITEM** STOCK NUMBER 5305-00-726-2551 5305-00-948-0749 5310-00-971-7990 5310-00-732-0559 5305-00-983-7450 5310-00-732-0560 5305-00-984-4989 5340-00-985-0823 2590-00-736-1377 4730-00-987-9073 2530-00-741-1081 9905-00-999-7369 3120-00-752-0775 9905-00-999-7370 9905-00-752-4649 5340-01-010-3842 5305-00-757-8122 2530-01-016-2029 5360-01-019-3541 5320-01-020-0703 5310-00-761-6882 3120-01-041-4671 5310-00-763-8901 5310-01-042-1006 5310-00-763-8912 3120-01-042-2579 5310-00-763-8921 5315-01-046-0176 5315-01-047-6042 2530-00-797-9295 4730-01-048-5261 4730-01-056-4990 5306-00-797-9256 5365-00-803-7299 5360-01-061-3207 5365-00-803-7303 5310-01-063-9764 5310-01-070-2105 5310-00-809-3078 5310-00-809-5997 5365-01-078-5901 3120-01-088-0337 6220-01-093-4439 5315-00-815-8840 5307-01-115-1810 5935-00-833-8561 2530-01-129-7552 5970-00-833-8562 5310-01-129-9470 5310-00-833-8567 1095-01-141-4815 1095-01-144-1478 5310-00-835-2037 5330-01-147-1628 1095-01-162-0343 5315-00-83S-5822 3040-01-162-0355 5315-00-842-3044 1095-01-162-0357 5315-00-843-6971 1095-01-162-0358 2590-00-860-0529 5307-01-166-3690 2590-00-860-0532 5330-01-167-1900 2590-00-860-0535 5330-01-167-2049 2590-00-860-0536 5307-01-167-7777 2590-00-860-0538 2590-01-182-8758 3120-00-899-4072 9905-01-182-8859 5330-00-899-5217 9905-01-182-8860 5365-00-899-6723 5360-01-182-8904 5305-00-900-0576 2530-01-182-8983 4730-00-906-7921 5970-01-182-9007 **BULK** 4130-00-906-7922 5970-01-182-9008 **BULK BULK** 5360-00-906-7923 4720-01-182-9067 5340-00-922-6300 4720-01-182-9068 **BULK** 5315-00-937-0154 2530-01-183-2629

5340-01-183-2630

5305-00-947-4355

NATIONAL STOCK NUMBER INDEX

ITEM

	N	ATIONAL STO	CK NUMBER INDEX	
STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.
2530-01-183-2632	6	18	5365-01-195-3674	18
9905-01-183-2691	23	1	5365-01-195-3675	18
5300-01-183-2697	7	26	5365-01-195-3688	18
5315-01-183-2699	6	22	5360-01-196-0629	18
5340-01-183-2701	12	14	4730-01-196-5217	10
5340-01-183-2702	6	17	5360-01-196-7958	16
5360-01-183-2704	12	10	5315-01-197-1179	18
5310-01-183-2709	12	6	9905-01-198-4520	23
2530-01-183-2716	7	17	5365-01-201-9597	18
2530-01-183-2717	12	2	5315-01-202-7035	18
2530-01-183-2719	12	1	5355-01-204-6935	18
3120-01-183-2724	6	21		
5310-01-183-2727	6	23		
5306-01-183-2731	12	7		
5340-01-183-2760	17	26		
3040-01-183-2767	6	20		
5340-01-183-2787	12	5		
5340-0 - 183-2768	12	8		
2530-01-183-6813	7	27		
2530-01-183-6814	7	15		
2530-01-183-6815	7	14		
5310-01-183-6830	13	8		
5310-01-183-6831	7	20		
5310-01-183-6843	13	13		
5310-01-183-6844	13	14		
2530-01-183-6846	7	10		
2530-01-183-6847	7	13		
2530-01-183-6848	7	13		
2530-01-183-6849	13	1		
3120-01-163-6851	7	19		
5310-01-183-6852	7	23		
5310-01-183-6854	13	2		
3040-01-183-6872	19	12		
3040-01-183-6698	19	9		
5315-01-183-8386	12	13		
7690-01-186- 8008	23	4		
2540-01-188-7395	21	10		
2540-01-188-7398	21	8		
5340-01-188-7427	21	12		
5315-01-188-7430	21	3		
5310-01-188-7485	21	7		
5310-01-188-7495	21	11		
2610-01-189-0564	14	1		
2540-01-189-0598	21	2		
2530-01-191-6535	11	6		
2590-01-192-0632	18	1		
4730-01-192-8090	18	26		
4720-01-192-8153	11	2		
4720-01-192-8154 5365-01-105-3673	11	3		
5365-01-195-3673	18	6		

01989 C3309X12 4730-01-196-5217 10 16 72869 EMD11706 6 28 72869 EMD11709 15 5 72869 EMD11737 6 22 72869 EMD11739 19 13 72869 EMD11740 3040-01-183-6872 19 12 72869 EMD19907 2 1 17 6 72869 EMD19907 2 1 17 6 72869 EMD19907 2 1 17 6 72869 EMD11976 17 6 22 1 17 18 1 17 18 1 17 18 1 17 18 1 17 18 1 17 18 1 17 18 1 17 18 1 17 18 1 17 18 1 17 18 1 12 2869 EMD12006 5 1	FSCM	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
72869 EMD11706 6 28 72869 EMD11709 15 5 72869 EMD11737 6 2 72869 EMD11739 19 13 72869 EMD11740 3040-01-183-6872 19 12 72869 EMD19907 2 1 17 6 72869 EMD19907 17 6 2 17 6 22 1 17 6 22 1 17 6 17 18 12 <th>FSCIVI</th> <th>PART NUMBER</th> <th>STOCK NUMBER</th> <th>FIG.</th> <th>I I E IVI</th>	FSCIVI	PART NUMBER	STOCK NUMBER	FIG.	I I E IVI
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72869 EMD11706 6 28 72869 EMD11737 6 2 72869 EMD11739 19 13 72869 EMD11740 3040-01-183-6872 19 12 72869 EMD19907 2 1 17 6 72869 EMD1996 17 6 17 6 17 6 17 6 17 6 17 6 17 6 17 6 17 6 17 6 17 6 17 6 17 6 17 7 6 17 7 6 17 7 6 17 7 1 18 1 12 18 1 12 18 1 1 12 18 1 1 12 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
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72869 EMD11739 19 13 72869 EMD11940 3040-01-183-6872 19 12 72869 EMD19907 2 1 72869 EMD11956 17 6 72869 EMD11976 17 1 72869 EMD11977 18 1 72869 EMD12005 5 2 72869 EMD12006 5 1 72869 EMD40073 19 18 72869 EMD40075 19 17 72869 EMD40479 9905-01-182-8860 23 1 72869 EMD40972 19 7 72869 EMD40976 19 19 72869 EMD41108 19 23 72869 EMD41143 19 8 72869 EMD51051 8 3 72869 EMD51345-5 2 5 72869 EMD54340 8 3 72869 EMD5					
72869 EMD11740 3040-01-183-6872 19 12 72869 EMD19907 2 1 72869 EMD11976 17 6 72869 EMD11977 18 1 72869 EMD12005 5 2 72869 EMD12006 5 1 72869 EMD40073 19 18 72869 EMD40075 19 17 72869 EMD40428 19 19 72869 EMD40479 9905-01-182-8860 23 1 72869 EMD40976 19 16 72869 EMD41108 19 23 72869 EMD41143 19 23 72869 EMD41143 19 8 72869 EMD51051 8 3 72869 EMD51051 8 3 72869 EMD51431-5 2 5 72869 EMD54204 6 5 72869 EMD5					
72869 EMD19907 2 1 72869 EMD11976 17 6 72869 EMD11977 18 1 72869 EMD12005 5 2 72869 EMD12006 5 1 72869 EMD40073 19 18 72869 EMD40075 19 17 72869 EMD40428 19 19 72869 EMD40479 9905-01-182-8860 23 1 72869 EMD40972 19 7 72869 EMD40976 19 7 72869 EMD41108 19 23 72869 EMD41143 19 8 72869 EMD51075 16 6 72869 EMD51051 8 3 72869 EMD513450 19 15 72869 EMD54204 6 5 72869 EMD56138 9905-01-182-8859 23 3 3 72869 <td></td> <td></td> <td>3040-01-183-6872</td> <td></td> <td></td>			3040-01-183-6872		
72869 EMD11976 17 6 72869 EMD11977 18 1 72869 EMD12005 5 2 72869 EMD12006 5 1 72869 EMD40073 19 18 72869 EMD40075 19 17 72869 EMD40428 19 19 72869 EMD40479 9905-01-182-8860 23 1 72869 EMD40976 19 7 72869 EMD40976 19 7 72869 EMD41108 19 23 72869 EMD41108 19 23 72869 EMD41143 19 8 72869 EMD50175 16 6 72869 EMD51561 8 3 72869 EMD51431-5 2 5 72869 EMD54204 6 5 72869 EMD56138 9905-01-182-8859 23 3 72869 EMD5					
72869 EMD11976 17 1 72869 EMD11977 18 1 72869 EMD12005 5 2 72869 EMD12006 5 1 72869 EMD40073 19 18 72869 EMD40075 19 17 72869 EMD40479 9905-01-182-8860 23 1 72869 EMD40972 19 7 72869 EMD40972 19 7 72869 EMD40976 19 16 72869 EMD41108 19 23 72869 EMD41143 19 8 72869 EMD51143 19 8 72869 EMD51051 8 3 72869 EMD51431-5 2 5 72869 EMD51562-2 2 6 8 4 4 4 72869 EMD54204 6 5 72869 EMD56442 6 12 <td></td> <td></td> <td></td> <td></td> <td></td>					
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72869 EMD07037 16 18					
72869 EMD70041 16 11					
72869 EMD70080 19 20					
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T2869	FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
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96906 MS27183-11 5310-00-809-3078 6 11 96906 MS27183-17 5310-00-809-5997 6 1 12 15 16 4 96906 MS27183-21 18 10 96906 MS27163-29 5310-00-209-0698 16 17 96906 MS28775-011 5330-00-582-2133 18 25 96906 MS29513-022 5330-00-250-0230 18 20 96906 MS29513-266 5330-00-263-8007 18 15 96906 MS3215-4050 5365-00-400-3403 6 6 96906 MS35206-229 5305-00-984-4989 17 15 96906 MS35206-229 5305-00-614-0246 22 3 96906 MS35338-45 5310-00-407-9566 13 11 96906 MS35338-46 5310-00-407-9566 13 11				16	
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96906 MS27183-21 18 10 96906 MS27163-29 5310-00-209-0698 16 17 96906 MS28775-011 5330-00-582-2133 18 25 96906 MS29513-022 5330-00-250-0230 18 20 96906 MS29513-266 5330-00-263-8007 18 15 96906 MS3215-4050 5365-00-400-3403 6 6 96906 MS3367-1-9 3 1 96906 MS35206-229 5305-00-984-4989 17 15 96906 MS35266-63 5305-00-614-0246 22 3 96906 MS35338-45 5310-00-407-9566 13 11 96906 MS35338-46 1 11 11	96906	MS27183-11	5310-00-809-3078	6	11
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96906 MS28775-011 5330-00-582-2133 18 25 96906 MS29513-022 5330-00-250-0230 18 20 96906 MS29513-266 5330-00-263-8007 18 15 96906 MS3215-4050 5365-00-400-3403 6 6 96906 MS3367-1-9 3 1 96906 MS35206-229 5305-00-984-4989 17 15 96906 MS35266-63 5305-00-614-0246 22 3 96906 MS35338-45 5310-00-407-9566 13 11 96906 MS35338-46 1 11 11	96906	MS27183-21		18	10
96906 MS29513-022 5330-00-250-0230 18 20 96906 MS29513-266 5330-00-263-8007 18 15 96906 MS3215-4050 5365-00-400-3403 6 6 96906 MS3367-1-9 3 1 96906 MS35206-229 5305-00-984-4989 17 15 96906 MS35266-63 5305-00-614-0246 22 3 96906 MS35338-45 5310-00-407-9566 13 11 96906 MS35338-46 1 11	96906	MS27163-29	5310-00-209-0698	16	17
96906 MS29513-266 5330-00-263-8007 18 15 96906 MS3215-4050 5365-00-400-3403 6 6 96906 MS3367-1-9 3 1 96906 MS35206-229 5305-00-984-4989 17 15 96906 MS35266-63 5305-00-614-0246 22 3 96906 MS35338-45 5310-00-407-9566 13 11 96906 MS35338-46 1 11	96906	MS28775-011	5330-00-582-2133	18	25
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96906 MS35206-229 5305-00-984-4989 17 15 96906 MS35266-63 5305-00-614-0246 22 3 96906 MS35338-45 5310-00-407-9566 13 11 96906 MS35338-46 1 11	96906	MS3215-4050	5365-00-400-3403	6	6
96906 MS35206-229 5305-00-984-4989 17 15 96906 MS35266-63 5305-00-614-0246 22 3 96906 MS35338-45 5310-00-407-9566 13 11 96906 MS35338-46 1 11	96906	MS3367-1-9			1
96906 MS35266-63 5305-00-614-0246 22 3 96906 MS35338-45 5310-00-407-9566 13 11 96906 MS35338-46 1 11			5305-00-984-4989		
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96906 MS35338-46 1 11					
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FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
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96806	MS35338-50		12	18
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96906	MS35338-51	5310-00-584-7888	7	24
96906	MS35387-1	9905-00-205-2795	22	1
96906	MS35367-2	9905-00-202-3639	22	2
96906	MS35478-1683	6240-00-044-6914	1	4
96906	MS35489-107	5325-00-174-9325	4	3
30300	WICCO-100 101	0020 00 174 0020	10	4
96906	MS35489-18	5325-00-276-6098	4	2
30300	10000409-10	3323-00-270-0090	10	2 3
96906	MS35671-56	5315-00-067-5093	17	4
96906	MS35614-28	5315-00-489-0281	17	3
96906	MS35677-51	5315-00-068-2498	17	9
96906	MS35651-3	5310-00-835-2037	12	12
			19	3
96906	MS35651-69	5310-00-971-7990	19	5
96906	MS35146-1	4730-00-595-0083	9	10
96906	MS35810-4	5315-00-815-8840	6	9
96906	MS35810-6	5315-00-140-1938	6	4
96906	MS35812-4	5340-00-985-0823	6	8
96906	MS39020-1	9905-00-752-4649	3	2
96906	MS39086-93	5315-00-690-0544	17	20
96906	MS39133-1	4730-00-278-8257	9	13
96906	MS39133-1 MS39133-2	4730-00-276-0237	9	11
96906	MS39134-1		9	9
		5360-00-906-7923		
96906	MS39135-1B	4730-00-906-7921	9	15
96906	MS39136-1B	4730-00-906-7922	9	14
96906	MS39137-2	4730-00-034-3703	9	8
96906	MS39179-5	4730-00-069-1186	10	18
			11	7
96906	MS39182-3	4730-00-069-1187	11	4
96906	MS39182-4	4730-00-409-7854	10	17
96906	MS39162-6	4730-00-289-0051	11	5
96906	MS51368-2	2640-00-555-2829	14	2
96906	MS51851-64	5305-00-757-8122	4	6
			6	25
			9	16
96906	MS51851-85	5305-00-191-3640	2	11
96906	MS51922-1	5310-00-088-1251	4	4
30300	10001922-1	3310-00-000-1231	10	1
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96906	MS51922-17	5310-00-087-4652	6	16
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			11	9
96906	MS51922-53	5310-00-225-6408	17	14
96906	MS51967-14	5310-01-070-2105	16	2
96906	MS51967-2	5310-00-761-6882	10	6
96906	MS51967-23	5310-00-763-8921	15	1

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
96906	MS51967-23	5310-00-763-8921	18	33
96906	MS51968-14	5310-00-732-0560	7	21
30300	WIGO 1000 14	0010 00 702 0000	, 19	1
96906	MS51961-20		12	19
			19	2
96906	MS51968-23	5310-00-763-8901	13	3
96906	MS51968-26	5310-00-763-8912	19	4
96906	MS51968-8	5310-00-732-0559	6	7
96906	MS53004-2	2530-00-021-2366	11	1
96906	MS53007-1	9905-00-999-7370	9	5
96906	MS53007-2	9905-00-999-7369	9	5
96906	MS90725-113	5305-00-042-6417	16	5
96906	MS90725-58		1	12
96906	MS90725-6		4	7
96906	MS90725-64	5305-00-269-3214	9	4
			11	10
96906	MS90725-67	5305-00-269-3217	6	14
96906	MS90726-163		17	11
96906	MS90726-59		18	31
96906	MS90727-164	5305-00-726-2551	18	12
			19	21
96906	MS90727-188	5305-00-948-0749	16	15
96906	M590728-188	5305-00-900-0576	18	32
96906	MS90728-192	5305-00-947-4355	15	2
96906	MS90726-29	5306-00-226-4822	13	10
79470	NT10006BK	4720-01-182-9067	BULK	3
79470	NT10008BK	4720-01-182-9068	BULK	4
56988	S-595	5360-01-182-8904	6	24
75535	5264 ZZ-T-381P/12-16	5340-00-264-8839	16	8 1
81348	5/GP2A/8/LTHR	2610-00-489-8065	14	1
81348	ZZ-V-25/TYP 1V/C	2640-00-060-3550	14	3
01340	LASS1/TR-VC-2	2040-00-000-3330	14	3
56697	103100-001	5310-01-183-6830	13	8
56697	105102	5310-01-183-6843	13	13
56697	105102	5310-01-183-6844	13	14
19207	10885443	2590-00-860-0532	17	17
19207	10885446	2590-00-860-0535	17	18
19207	10885448	5340-00-076-1943	17	16
19207	10885450	2590-00-860-0529	17	8
19207	10885478	2590-00-860-0536	17	19
19207	10891263	2590-00-860-0538	2	12
19207	10891283	4030-00-075-7212	15	4
19207	10891299	2590-00-076-0050	17	29
19207	10914500	5340-00-075-9147	20	1
19207	10916511	5365-01-201-9597	18	3
19207	10916511-1	5365-01-195-3688	18	7
19207	10916511-2	5365-01-195-3673	18	6
19207	10916511-3	5365-01-195-3674	18	5
19207	10916511-4	5365-01-195-3675	18	4
19207	10916514	5306-00-446-8137	18	29

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19207	10916516	5315-01-197-1179	18	21
19207	10916520	2590-01-192-0632	18	1
19207	10916521	5315-00-937-0154	18	16
19207	10916522	2590-01-182-8758	18	9
19207	10916523	1095-01-162-0357	18	2
19207	10916524	1095-01-162-0358	18	8
19207	10916527	1095-01-162-0343	18	14
19207	10916531	5355-01-204-6935	18	24
19207	10916533	5330-01-147-1628	18	11
19207	10916534	4730-01-192-8090	18	26
19207	10950503	2590-00-736-1377	17	1
19207	10950504		17	6
19207	10950505	1095-01-144-1478	17	10
19207	10950508	1095-01-141-4815	17	2
19220	11X-138	5310-01-188-7485	21	7
19207	11592642	2530-00-178-0720	14	9
19207	11614157	6Z20-01-093-4439	1	1
19207	11636665	5306-00-152-0562	16	t0
19207	11639519-2	5330-00-462-0907	1	3
19207	11639520		1	6
19207	11639535	6220-00-179-4324	1	2
19220	12X-195	5310-01-188-7495	21	11
79470	1484X6	4730-01-056-4990	11	8
79470	1484X8	4730-01-04d-5261	10	15
19220	15592	5365-01-078-5901	21	5
19220	15595	5360-01-061-3207	21	6
19220	16307-3	5340-01-188-7427	21	12
73842	181-854-623	2610-01-189-0564	14	1
56697	200101-001	2530-01-183-6813	7	27
56697	201142	2550-01-105-0015	7	4
56697	209199-029-1	2530-01-129-7552	7	1
56697	202103-2131	2530-01-129-7332	7	13
56697	202103-213R 202103-213R	2530-01-183-6847	7	13
56697	203110	5315-01-046-0176	7	11
			7	6
56697 56697	204108-001	3120-01-041-4671 5315-01-047-6042		
	205107-001 207100		7	7
56697		2530-01-016-2029	7	5
56697	208106	5360-01-019-3541	7	9
56697	212133	2530-01-183-2716	7	17
06853	212862	4730-00-202-6491	12	4
06853	213630	5330-00-090-2128	9	12
56697	217030-054	2530-01-183-2719	12	1
56697	217999-003	2530-01-183-2717	12	2
56697	217999-006	5360-01-183-2704	12	10
56697	217999-007	5340-01-183-2788	12	8
56697	217999-008	5340-01-183-2701	12	14
56697	217999-900	5340-01-183-2630	12	11
56697	217999-901		12	17
56697	217999-903	5340-01-183-2787	12	5
56697	217999-904		12	3

		PART NUMBER INDEX		
FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
50057	0.47000 000	0500 04 400 0000	40	•
56657	217999-906	2530-01-183-2629	12	9
06853	228545	4720-01-192-8153	11	2
06853	228554	4720-01-192-8154	11	3
06853	228746	2530-01-182-8983	9	1
06853	241871	2530-01-191-6535	11	6
19220	213458	5315-01-188-7430	21	3
56697	300113-001	2530-00-374-2118	13	17
56697	304108	2530-00-371-4105	13	9
56697	3061400-003	2530-01-183-6849	13	1
26151	330-3024	5330-01-167-1900	13	12
26151	3700-7006	5330-01-167-2049	13	18
09386	37888	5310-00-594-8038	13	15
			16	19
09386	37889	5310-00-273-7771	13	15
56697	401113	5306-01-183-2697	7	26
56697	401169	5306-01-183-2731	12	7
56697	402101	5310-01-042-1006	7	25
56697	402154	5310-01-183-2709	12	6
56697	403107	5310-01-183-6852	7	23
56697	403112	5310-01-183-6831	7	20
56697	403161	5310-01-183-6854	13	2
56697	404101-001	5320-01-103-0034	7	8
56697	405128	2530-01-183-6814	7	15
56697	405129	3120-01-163-0614	7	22
56697	411102	5315-01-183-8386	12	13
01212	443527591	2530-01-183-6815	7 7	14
56697	4536B	5040.04.000.0764		2
19220	5X252	5310-01-063-9764	21	9
79934	501-1		14	8
60038	522	3110-00-100-0323	13	6
56988	523	5360-01-196-7958	16	3
19201	5232954	4730-00-278-6319	9	6
00038	526	3110-00-100-0269	13	7
60038	53176	3110-00-142-4351	17	33
60038	53387		17	30
53477	5405		14	7
60038	563	3110-00-100-0328	13	5
19220	5630-OAX	2540-01-189-0598	21	2
60038	567	3110-00-100-0286	13	4
79934	595-2		14	5
79934	595-3		14	6
79934	595-4		14	4
19207	7328401		17	32
19207	7328402	3120-00-899-4072	17	24
19207	7328405	3040-01-162-0355	17	28
19207	7392815	2530-00-330-3262	6	13
19207	7411022	2530-00-797-9295	10	7
19207	7411081	2530-00-741-1081	10	8
19207	7415748		10	14
19207	7520774	3020-00-571-6104	17	27
19207	7520775	3120-00-752-0775	17	25
10201	1020110	0120 00 102 0110	11	20

5001	DADT WILLDED	PART NUMBER INDEX	510	
FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
19207	7520777		17	21
18876	7520829		17	23
19201	7696416		17	22
19207	7720853		BULK	5
19207	7759645	4820-00-142-3036	9	2
19207	7979296	5306-00-197-9296	10	5
19207	7919612	5360-00-706-9054	10	10
19207	7979613	4730-00-580-8457	10	13
19207	7979614	5310-00-679-3606	10	9
19220	8000	5340-01-010-3842	21	1
19220	8000-1	5307-01-115-1810	21	4
19220	8000-2	2540-01-188-7395	21	10
19220	8000-5	2540-01-188-7398	21	8
19920	8000-50		21	13
19207	8005089	2590-00-582-5503	17	12
18876	8020015	1440-00-341-2387	17	13
92867	81000045	3120-01-183-2724	6	21
92867	81000007	3040-01-183-2767	6	20
92867	81000136	3120-01-088-0337	6	15
92867	81000177	5315-01-183-2699	6	22
92867	81000178	2530-01-183-2632	6	18
92867	81001550	5340-01-183-2702	6	17
19207	8329823	5330-00-285-5123	10	11
19207	8338561	5935-00-833-8561	2	7
19207	8338562	5970-00-833-8562	2	8
19207	8338564	5940-00-399-6676	2	9
19207	8338566	5935-00-572-9180	1	7
			2	4
19207	8338567	5310-00-833-8567	1	8
			2	3
92867	84000182	5310-01-183-2727	6	23
92867	84002443	5310-01-129-9470	6	19
19207	8683884	5330-00-899-5217	17	7
19207	8699500	5365-00-899-6723	6	10
19207	8737726	5310-00-455-0288	18	28
19207	8747908-1	2590-00-529-6199	2	10
05386	95693	5307-01-166-3690	13	16
09386	95694	5307-01-167-7777	13	16
56697	999197	2530-01-183-6846	7	10
56697	999242	3120-01-183-6851	7	19

APPENDIX G

ILLUSTRATED LIST OF MANUFACTURED ITEMS

Section I. INTRODUCTION

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

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

Bulk materials needed for manufacture or fabrication of an item are listed by part number and NSN in the following tabular listing:

Section II. TABULAR LISTING OF MANUFACTURED ITEMS

Part Number of Item	Figure Number	Required Number of Feet of Wire	Required Number of Inches of Tubing		Required Number of Inches of Loom	
			NTI0006BK	NTI0008BK	E-31	E-29A
EMD11907	G-1	120	0	0	0	0
EMD11735	G-2	0	150	96	96	150
EMD58618	G-2		88			
EMD58619	G-2		62			
EMD51051	G-2			96		
EMD51562-2	G-2				96	
EMD58620	G-2					88
EMD58621	G-2					62

WIRING DIAGRAM

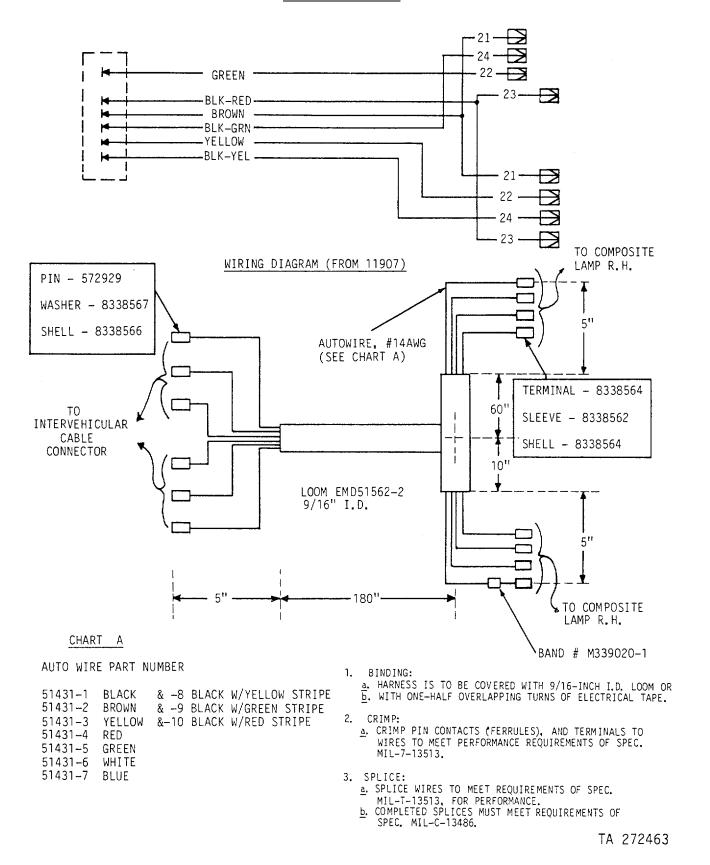
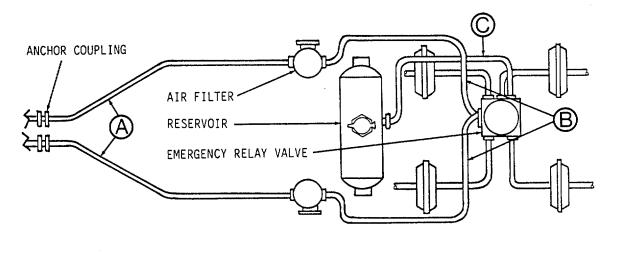
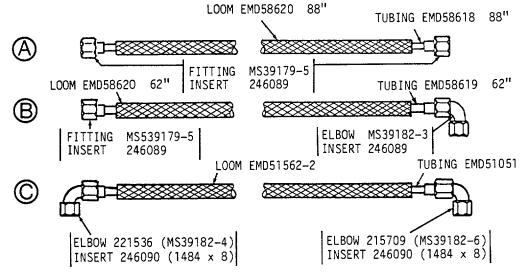


Figure G-1. Wiring Harness, EMD11907

SCHEMATIC DIAGRAM - TUBING LOCATIONS





TUBING INSERT FITTING

INSTRUCTIONS:

- 1. CUT TUBING AND LOOM TO REQUIRED LENGTH. ENDS MUST BE CUT SQUARE.
- 2. SLIDE TUBING INTO LOOM.
- 3. SLIDE FITTING ON TUBING.
- 4. SLIDE INSERT INTO TUBING UNTIL SEATED AGAINST END FLANGES. TA 272464

Figure G-2. Tubing Assembly Instructions

G-3/(G-4 Blank)

APPENDIX H

TORQUE TABLE

STANDARD CAPSCREW I	MARKINGS AND TORQUE			
Current Usage	Much Used	Much Used	Used at Times	Used at Times
Minimum Tensile Strength PSI MPa	To Vh-9, 000 (478) To-1Y4-4, 000 (421) To 155, 000 (379)	To 3V.120, 000 (827) To 1-115, 000 (793)	To 518-140, 000 (965) To -3/4 133, 000 (917)	150, 000 (1034)
Quality of Material	Indeterminate	Minimum Commercial	Medium Commercial	Best Commercial
SAE Grade Number	1 or2	5	6 or 7	8
Capscrew Head Markings				= 1
Manufacturer's marks may vary		i		
These are all SAE G- 3) Grade 5 (3 line)		888		

Capscrew Body Size Inches)(Thread)	Torque Ft-Lb (N-m)	Torque Ft-Lb (N-m)	Torque Ft-Lb (N-m)	Torque Ft-Lb (N-m)
1/4 205/7)	0(11)	10/14)	12(16)	
//4205(7) -28	8(11)	10(14)	12(16)	14(10)
-20 5/161811(15)	6(8) 17(23)	10(14) 19(26)	24(33)	14(19)
-24	13(18)	19(26)	24(33)	27(37)
-24 3/8-16	18(24)	31(42)	34(48)	44(60)
-24	20(27)	35(47)	34(40)	49(66)
7/17-14	28(38)	49(6S)	55(75)	70(95)
-20	30(41)	55(75)	33(13)	78(106)
-13	39(53)	75(102)	85(115)	105(142)
-20	41(568)	85(115)	33(1.13)	120(1631
9/16-12	51(69)	110(149)	120(163)	155(210)
-18	55(75)	120(153)	()	170(231)
5/8-11	83(113)	150(203)	167(228)	210(285)
-18	95(129)	170(231)	- (-,	240(3251
3/4-10	105(142)	270(366)	280(380)	375(508)
-16	115 ¹ 56)	295(400)	,	420(569)
7/8-9 1	60(217)	395(536)	440(597)	605(820)
-14	175(237)	435(590)	,	675(915)
- 8	235(319)	590(800)	680(895)	910(1234)
-14	250(339)	860(895)	, ,	990(1342)

^{1.} Always use the torque values listed above when definite specifications are not available.

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

- 2 The above is based on use of clean and dry threads.
- 3. Reduce torque by 10Svwhen engine oil Is used as a lubricant.
- 4. Reduce torque by 20% If new plated capscrews are used.

Caution: Capscrews threaded into aluminum may require reductions In torque of 303% or more, unless inserts are used.

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By	Order	of the	Secretary	of	the	Army:
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JOHN A. WICKHAM, JR. General, United States Army Chief of Staff

Official

DONALD J. DELANDRO Brigadier General, United States Army The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-39-R, Operator, Organizational, Direct Support/General Support requirements for Trailer, Flatbed, 5-Ton, XM1034; Trailer, Flatbed, 6-Ton, XM1048.

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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 (°F - 32) = °C

212° Fahrenheit is equivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius 32° Fahrenheit is equivalent to 0° Celsius

 $9/5 (^{\circ}C + 32) = F^{\circ}$

APPROXIMATE CONVERSION FACTORS

	APPROXIMATE CONVERSION FACTORS		 ⁻_ ≵ _
TO CHANGE	то	MULTIPLY BY	4
Inches	Centimeters	2.540	1 1
Feet	Meters	0.305	1 1
Yards	Meters	0.914	<u>□</u> } -
Miles	Kilometers	1.609	ऻ ▔ ≵ ः
Square Inches	Square Centimeters	6.451	1 =
Square Feet	Square Meters	0.093	I∼⊒E
Square Yards	Square Meters	0.836	1 - E
Square Miles	Square Kilometers	2.590	l ₄E
Acres	Square Hectometers	0.405	
Cubic Feet	Cubic Meters	0.028	<u>-</u>
Cubic Yards	Cubic Meters	0.765	1
Fluid Ounces	Milliliters	29.573	1 🛨
Pints	Liters	0.473	o_ _ t-
		-	-
Quarts	Liters	0.946	1 4
Gallons	Liters	3.785	‡
Ounces	Grams	28.349	<u>~ -‡ _</u>
Pounds	Kilograms	0.454	E
Short Tons	Metric Tons	0.907	手
Pound-Feet	Newton-Meters	1.356	<u>_</u>
Pounds per Square Inch	Kilopascals	6.895	" =
Miles per Gallon	Kilometers per Liter	0.425	1 1-
Miles per Hour	Kilometers per Hour	1.609	! ₹
TO CHANGE	то	MULTIPLY BY	`重
Centimeters	Inches	0.394	拝
Meters	Feet	3.280	l °−∓
Veters	Yards	1.094	1 🖈
Kilometers	Miles	0.621	
Square Centimeters			
	Square Inches		s = 1-1
Square Meters	Square Inches	0.155	\s_\frac{1}{2}
	Square Feet	0.155 10.764	5 1
Square Meters	Square FeetSquare Yards	0.155 10.764 1.196	\s_\frac{1}{2}
Square MetersSquare Kilometers	Square Feet	0.155 10.764 1.196 0.386	Authority
Square MetersSquare KilometersSquare Hectometers	Square Feet	0.155 10.764 1.196 0.386 2.471	Harapara S
Square MetersSquare KilometersSquare HectometersSquare Hectometers	Square Feet	0.155 10.764 1.196 0.386 2.471 35.315	indiphologia s
Square MetersSquare KilometersSquare HectometersSquare HectometersSquare MetersSquare MetersSquare MetersSquare MetersSquare MetersSquare MetersSquare MetersSquare MetersSquare Meters	Square Feet	0.155 10.764 1.196 0.386 2.471 35.315 1.308	drighthymh
Square Meters	Square Feet	0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034	uphiphaphaphaph
Square Meters	Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Yards Fluid Ounces Pints	0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034 2.113	3 4 2 2 4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Square Meters	Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Yards Fluid Ounces Pints Quarts	0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034 2.113 1.057	Helindriphy S
Square Meters	Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Yards Fluid Ounces Pints Quarts Gallons	0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034 2.113 1.057 0.264	Hereferschriftschungen
Square Meters	Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Yards Fluid Ounces Pints Quarts Gallons Ounces	0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034 2.113 1.057 0.264 0.035	4. 2 3 44 5 Fully freshort
Square Meters	Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Yards Fluid Ounces Pints Quarts Gallons Ounces Pounds	0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034 2.113 1.057 0.264 0.035 2.205	CM. 2 3 4 5 5 Frederick State of the State o
Square Meters	Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Yards Fluid Ounces Pints Quarts Gallons Ounces Pounds Short Tons	0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034 2.113 1.057 0.264 0.035 2.205 1.102	1 CM. 2 3 4 5
Square Meters	Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Yards Fluid Ounces Pints Quarts Gallons Ounces Pounds	0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034 2.113 1.057 0.264 0.035 2.205 1.102 0.738	TCM. 2 3 4 5
Square Meters	Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Yards Fluid Ounces Pints Quarts Gallons Ounces Pounds Short Tons	0.155 10.764 1.196 0.386 2.471 35.315 1.308 0.034 2.113 1.057 0.264 0.035 2.205 1.102	TCM. 2 3 4 5
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