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SEMI-TRAILER,

LOW BED, WITH DOLLY,

20-TON, JAHN, MODEL LKD-620



MAINTENANCE INSTRUCTIONS AND PARTS CATALOG

WAR DEPARTMENT

15 JANUARY 1944

UNIVERSITY OF CALIFORNIA

TM 5-9208

Combined

OPERATOR'S MANUAL MAINTENANCE MANUAL

and

SPARE PARTS LIST

for

20-TON LOW-BED SEMI-TRAILER, WITH DOLLY

Model LKD-620

Manufactured for CORPS OF ENGINEERS

by

C. R. JAHN COMPANY

Chicago, Illinois

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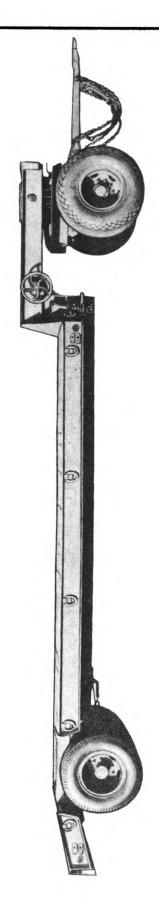


Figure 1—The Model LKD-620 Trailer

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Preface

TM5-9208 covers an operator's manual, maintenance manual and parts catalog for a 20-ton low-bed semi-trailer, with dolly, built for the Corps of Engineers by C. R. Jahn Company, Chicago, Ill. The trailer is designed to haul heavy units of machinery.

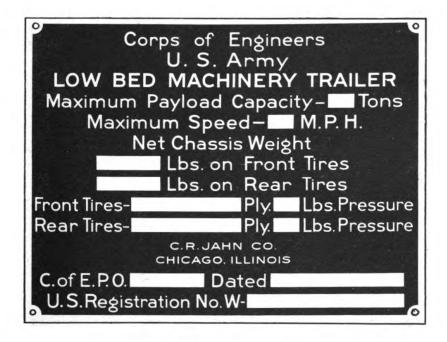


Figure 2-Main Unit Name Plate

OPERATORS MANUAL

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SECTION 1

INTRODUCTION

PURPOSE AND SCOPE

This manual describes a low-bed trailer designed for transporting heavy mobile units of machinery. It contains information for the guidance of the using arms charged with operation, maintenance and repair of this equipment. Descriptions of the major units are given, as well as an explanation of their function in relation to the other components of the trailer. Successive sections cover Description and Characteristics; Operating Instructions and Controls; Inspection, Lubrication and Adjustments; Tools and Accessories, and Preparation for Storage.

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SECTION 2

DESCRIPTION AND CHARACTERISTICS

GENERAL DESCRIPTION

- 1. This trailer, of 20-ton capacity, may be used as a full trailer (figure 1) and be drawn by a heavy-duty truck, or as a semi-trailer (figure 3) and be drawn by a truck-tractor. Two vehicles comprise the trailer, the main unit or trailer proper and a dolly truck (figure 4) on which the trailer front end may be mounted for use as a full trailer. Two loading ramps are supplied to facilitate loading and unloading of equipment to be hauled.
- 2. Designed to travel on highways, ability of this trailer to travel cross country depends upon the tractive ability of the towing unit.
- 3. The trailer model number, LKD-620, as well as the serial number, is stamped on a plate located at the front of the left main frame side rail.

AXLE—Front

- 1. The front axle is a solid alloy steel bar, with spindles ground to accurate limits.
- 2. Axle and wheels are equipped with heavy duty tapered roller bearings. Simple adjustments of the bearings are made through an adjusting nut.

AXLES-Rear

Rear axles are trunnion mounted, of the oscillating type. They are equipped with heavy-duty tapered roller bearings, which can be adjusted through an adjusting nut, a hardened tongue washer and a lock nut.



Figure 3—The Model LKD-620 as a Semi-Trailer



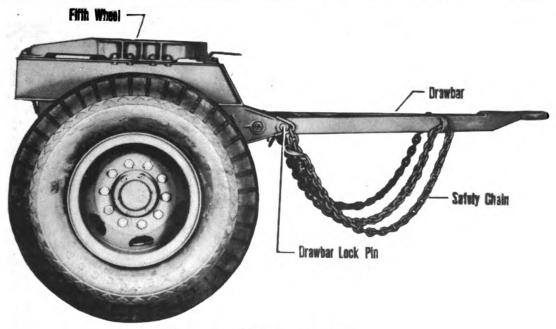


Figure 4—Side View of the Dolly

BRAKES

1. The front and rear brakes are of a double-anchor, two-shoe, heavy duty internal expanding type. They have a 16 - inch diameter, and a 6-inch width. Brake lining is a tapered block, thickest at the point of maximum wear.

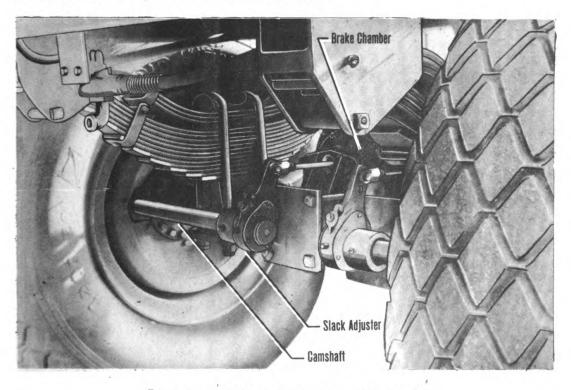


Figure 5—Rear Underconstruction of the Dolly

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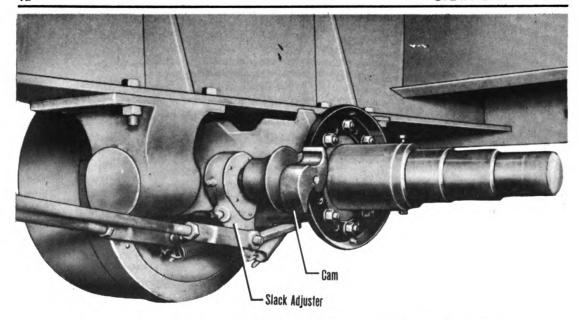


Figure 6—Trunnion Axle with Hub and Drum Removed from One End.

2. Brakes are provided with a slack adjuster on the camshaft (figures 5 and 6). The slack adjuster provides for 360-degree adjustment on the camshaft. Actuation of the front axle brakes is by air chambers mounted on the axle (figure 5), while the rear axle brakes are actuated by air chambers (figure 7) mounted in the trailer frame.

BRAKE-Hand

A hand parking brake, with its operating wheel (figure 8) at the right side of the trailer frame, actuates cross shafts and levers connected by rods to the rear axle brake slack adjusters.

SCREW JACKS

Screw jacks (figure 8) are provided at each side of the goose neck to support the main frame without its dolly.

PINTLE HOOK

A pintle hook is provided at the rear of the trailer frame.

FIFTH WHEEL

A fifth wheel (figure 4) is rigidly mounted to the dolly.



DRAWBAR LOCKING DEVICE

The drawbar is equipped with a pin which, when inserted in a hole in the drawbar mounting bracket, provides a means of locking the drawbar rigid to facilitate backing the dolly. (See figure 4.)

AIR BRAKE EQUIPMENT

- 1. The air brake equipment provides a means of operating the brakes through the medium of compressed air, and in conjunction with the air brake system on the vehicle towing the trailer. Fundamentally, the trailer air brake system consists of the air devices necessary to direct and control the flow of compressed air, and those necessary to transform the energy of the compressed air into mechanical force and motion to apply the brakes.
- 2. The trailer air brake system includes air connections at the front so it can be connected to the air brake system of the vehicle towing the trailer.

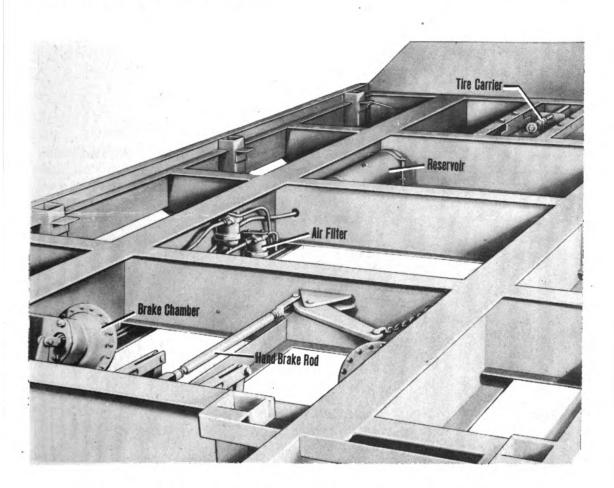


Figure 7—Looking Down on Full Bed of Trailer, with Platform Removed.



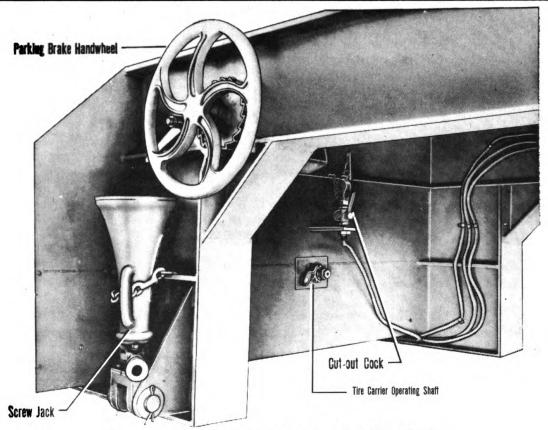


Figure 8—Below the Gooseneck of the Main Unit Frame

Air Brake Components

- 1. A relay-emergency valve relays the braking action from the towing vehicle and provides an automatic brake application on the trailer in the event the trailer breaks away from the towing vehicle.
- 2. Brake chambers (figures 5 and 7) transform the energy of compressed air into the mechanical force and motion necessary to operate the brakes on each wheel.
- 3. Slack adjusters (figures 5 and 6), mounted on the brake camshafts, provide an easy means of adjusting the brakes to compensate for brake lining wear.
- 4. A reservoir (figure 7) is used to store the compressed air for brake operation.
- 5. A drain cock is mounted at the bottom of the reservoir to facilitate draining of the condensation which normally collects there. The reservoir should be drained at least once a week.
- 6. An exhaust check valve is mounted in the exhaust port of the relay-emergency valve to protect the relay-emergency valve against the entrance of dirt or water.



- 7. Air filters (figure 7) are connected in the service line and in the emergency line leading from the air brake system on the towing vehicle.
- 8. Hose couplings (figure 9) are mounted at the service line and emergency line outlets at the front of the trailer to provide a simple means of attaching hose connections from the towing vehicle.
- 9. Dummy couplings (figure 9), located near the hose couplings at the front of the main trailer frame, are designed for attachment to the hose couplings to prevent entrance of dirt when the hose couplings are not being used.
- 10. Hose assemblies are used where it is necessary to connect an air line between two points of the trailer which change their position in relation to each other. All hose assemblies include detachable type hose connectors.
- 11. Tubing and tubing fittings are used to connect the air brake devices in the air brake system where the use of hose is not necessary.
- 12. A quick release valve is used to provide a quick release of the front wheel brakes.

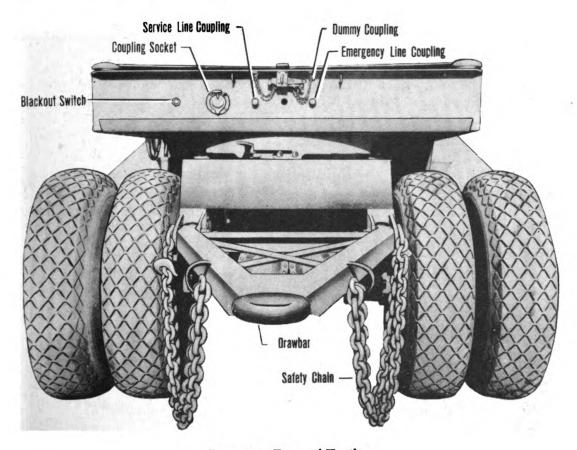


Figure 9—Front of Trailer.

13. A cut-out cock (figure 8), located under the main unit gooseneck, is provided in the hose line connecting the dolly air brake equipment to the trailer air brake system so that the line may be closed when the dolly is not being used.

DRAWBAR

The drawbar (figure 4) is of fabricated steel construction, with a drop-forged eye welded to it. It is attached at the front of the dolly by bolts passing through brackets on the dolly frame and bushings pressed into drawbar hinges. A locking device is provided, to be used only when backing the dolly to the main frame. Two safety chains (figure 4) welded to the dolly frame, pass through loops on the drawbar for connection to the prime mover.

ELECTRICAL SYSTEM

- 1. The wiring system is the 6-8-volt type. The lighting system includes two amber and two red clearance lamps, two red and two blue blackout lamps, one combination blackout stop and tail light at the right-hand rear, and one combination service stop and tail light and blackout tail lamp located on the left-hand rear of the trailer.
- 2. The blackout switch (figure 9) is located at the front of the main unit frame.
- 3. A jumper cable (figure 10) supplies current to the trailer through a socket (figure 9) on the front of the main unit frame.

SPRINGS

- l. The front dolly is provided with two main springs and two helper springs of the flat-end type. All leaves are bolted in the center with a nickel-steel center bolt. Spring leaves are held in alignment to each other by two clips riveted to the leaves. The springs are secured to the dolly axle by heat-treated U-bolts.
 - 2. Radius rods, attached to the front axle and the dolly



Figure 10—Hose Assembly (top) and Jumper Cord.



frame, are adjustable to maintain front axle alignment.

FRONT WHEELS AND TIRES

Front wheels are of the steel disc type. Tires are 12.00x20, 14-ply, dual pneumatics.

REAR WHEELS AND TIRES

Rear wheels are of the steel disc type. Tires are 9.00x20, 10-ply, dual pneumatics.

TIRE CARRIER

The tire carrier (figure 7) is of the cable type. The tire is pulled up to the frame, where it is fixed into position by means of study and study nuts.

SPECIFICATIONS

Specifications of the trailer are tabulated below:

Capacity	20 ton
Overall length, less drawbar	30'1-3/4"
Wheel base	24'1"
Loading platform length	17'
Loading platform width	9'4"
Loading platform height (loaded)	39-1/2"
Ground clearance (loaded)	23-1/4"
Tires - Rear	8
Tire size - Rear	9.00x20
Tires - Front	4
Tire size - Front	12.00x20
Wheel size - Rear (Budd)	20 x 8
Wheel size - Front (Budd)	20 x9-1 0
Brake size - Front (Timken)	16-1/2x6
Brake size - Rear (Timken)	16-1/2x6
Total brake lining area	1368 sq.in.
Tire capacity at 55 lbs. infla-	
tion pressure, 25 mph	
Front	25,600 lbs.
Rear	36,160 lbs.
Tire pressure	55 lbs.
Approximate weight, including	
ramps and tools	15,000 lbs.
Light system (electrical)	6 - 8 volt
Power brake system (Bendix-	
Westinghouse)	Air



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SECTION 3

OPERATING INSTRUCTIONS AND CONTROLS

Controls are employed according to the usual trailer-truck combination practice. The driver must become thoroughly familiar with the location and use of all control devices before attempting to operate the vehicles.

HAND BRAKE

The parking brake handwheel is located on the right side of the trailer at the drop in the frame. Turning the wheel applies the brakes. The hand brake can be used as a parking brake, or as a supplement to the truck brakes when descending extremely steep grades with a heavy load. (See figure 8.)

LIGHT CONNECTION

The trailer is equipped with a coupling socket (figure 9) in the center of the front cross member of the frame. A jumper cable (figure 10) for connection to the towing vehicle is a trailer accessory.

BLACKOUT SWITCH

- 1. The blackout switch (figure 9) is located on the front cross member of the main frame. It has no "OFF" position. It is either at a blackout position or at a standard light position.
- 2. The switch is operated by means of a coin or a screwdriver, while the flow of current is controlled at the towing vehicle.

TIRE CARRIER

The tire carrier (figure 49) is located behind the front cross member of the lower deck, while the carrier operating shaft protrudes through that cross member (figure 8). By removing the stude nuts on the spare tire, and releasing the catch on the operating shaft ratchet, the tire will fall to the ground. The tire is raised to the carrier by means of cables operated by turning the operating shaft with the socket tire wrench on the shaft nut.



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AIR BRAKE OPERATION

- 1. The trailer air brake system is kept charged to the same pressure as the air brake system of the towing vehicle because air pressure can always flow from the reservoir on the towing vehicle through the emergency line, through the relay-emergency valve, to the reservoir on the trailer.
- 2. When the driver applies the brakes, air pressure, controlled by the brake valve on the towing vehicle, flows through the service line to the relay-emergency valve. This causes the relay-emergency valve to react and permit the same air pressure to flow from the trailer reservoir to the trailer brake chambers applying the brakes. The relay-emergency valve always reacts in this manner, and permits the same air pressure to be delivered to the trailer brake chambers as the brake valve on the towing vehicle delivers to the relay-emergency valve. It is, therefore, possible for the driver to control the air pressure in the trailer brake chambers, and in this way control the trailer brakes. The farther the brake valve on the towing vehicle is moved toward fully applied position, the higher the air pressure delivered to the trailer brake chambers and the more severe the brake application.
- 3. In the event the trailer breaks away from the towing vehicle, the relay-emergency valve reacts to prevent air pressure in the trailer reservoir from escaping out the broken hose line, and, at the same time, it opens communication between the trailer reservoir and the trailer brake chambers. Under these conditions, the brakes on the trailer are applied automatically.

COUPLING THE TRAILER TO ITS DOLLY

- 1. Securely block the rear wheels of the trailer to prevent its shifting.
 - 2. Set the hand brake.
- 3. Adjust the screw jacks so that the trailer's fifth wheel plate is two or three inches lower than the dolly fifth wheel.
- 4. Set the dolly drawbar in its locked position and connect to a truck or other prime mover.
- 5. Back the dolly carefully under the trailer gooseneck until the trailer king pin is in position in the dolly fifth wheel.
 - 6. Disconnect the drawbar lock.
- 7. With the dolly still connected to the prime mover, back the dolly until the trailer king pin is firmly engaged in the fifth wheel.



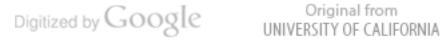
- 8. Raise the screw jacks, fastening them in position with chains provided for that purpose.
- 9. Remove the dolly air hose connection from its hanger at the rear of the dolly frame and connect it to the air hose coupling below the gooseneck on the main unit frame (figure 8); open the cut-out cock.

COUPLING FULL TRAILER TO TOWING VEHICLE

- 1. Place the lumette eye of the drawbar in a pintle hook on the towing vehicle and lock it in position by means of the pin provided for that purpose.
- 2. Attach the hook ends of the drawbar safety chains to eyes or other means provided on the rear of the towing vehicle.
- Connect the jumper cable between the trailer and towing vehicle, placing one end in the socket at the front of the trailer main frame and the other in the socket provided at the rear of the towing vehicle.
- 4. Remove the dummy couplings from the hose couplings on the trailer, and connect hose lines between the towing vehicle and the trailer, being careful to see that the service line on the towing wehicle is connected to the service line on the trailer, and that the emergency line on the towing vehicle is connected to the emer-Identification tags are mounted on all gency line on the trailer. vehicles so the connections can be easily identified.
- Open the cut-out cocks in the outlets on the towing Cut-out cocks are open when the handle is at a right angle to the line. Open cut-out cocks permit the air brake system on the trailer to be charged, making the trailer brakes ready to operate.
- 6. Check the operation of the brakes, before the vehicles are moved, by making a brake application and observing that the trailer brakes apply and release properly.
- 7. Release the parking brake by releasing its ratchet catch and turning the wheel.
 - 8. Remove the blocking from the trailer rear wheels.

COUPLING SEMI-TRAILER TO TRUCK-TRACIOR

- 1. Securely block the rear wheels of the trailer to prevent its shifting.
 - 2. Set the hand brake.



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- 3. Adjust the screw jacks so that the trailer's fifth wheel plate is two or three inches lower than the truck-tractor's fifth wheel.
- 4. Back the truck-tractor carefully under the trailer gooseneck until the trailer king pin is engaged in the tractor's fifth Wheel.
- 5. Raise the screw jacks, fastening them in idle position with the chains provided for that purpose.
- 6. Connect the jumper cable and the air system hose lines and follow the general procedure outlined in paragraphs three through eight under "Coupling Full Trailer to Towing Vehicle," page 20.

DRIVING TOWING VEHICLE AND TRAILER

- The truck and trailer combination is driven in much the same manner as the straight truck. When turning corners, it should be remembered that the rear wheels turn "inside" the turning radius of the truck.
- 2. Test the operation of the trailer brakes before traveling at full speed. Air supply on the dash gauge should not be less than 60 pounds for proper brake application.
 - 3. Test the operation of the trailer lights.

BRAKING TOWING VEHICLE AND TRAILER

- 1. The trailer and towing vehicle brakes should be applied in The trailer brakes should not be expected to carry the entire load of the trailer and towing vehicle, or rapid lining wear and reduced life of the trailer brakes will occur.
- 2. Trailer brakes should be applied easily and released when A grabbing brake is not operating with maximum effithey grab. ciency. For maximum efficiency, keep the tires just short of the skidding point.
- 3. When the trailer is parked for a considerable period, set the hand brake.

UNCOUPLING FULL TRAILER FROM ITS DOLLY

- 1. Set the trailer hand or parking brake.
- 2. Block the rear wheels of the trailer.
- 3. Place the screw jacks in position to support the main unit frame, and raise the jacks sufficiently to take some of the weight off the dolly.



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- 4. Close the cut-out cock below the gooseneck of the main unit frame and disconnect the dolly air hose connection from it; place the air hose coupling on the hanger provided at the rear of the dolly frame.
 - 5. Disconnect the jumoer cable from the towing vehicle.
- 6. Shut off both cut-out cocks Service and Emergency at the towing vehicle.
- 7. Uncouple the two air lines at the front of the trailer. Take care to prevent hose couplings from dragging in the dirt.
- 8. Couple the dummy hose couplers to the emergency and service lines on the trailer. These dummy couplers should be in place at all times the trailer is not in use to prevent entrance of foreign matter into the braking system.

NOTE: Disconnecting the trailer should automatically apply the brakes on the trailer, but the trailer should never be parked when there is danger of it moving should the air pressure leak off and the brakes release. The parking brake should be set or the wheels blocked to prevent the trailer from moving.

- 9. Open the fifth wheel lock holding the main unit king pin.
- 10. With the prime mover, carefully pull the dolly from under the main unit.

UNCOUPLING DOLLY FROM TOWING VEHICLE

- 1. Block the dolly so that it does not move over the ground and so that it does not pivot on its axle.
 - 2. Disconnect the dolly safety chains from the towing vehicle.
- 3. Disconnect the drawbar eye from the pintle hook on the towing vehicle.
- 4. Pull the towing vehicle ahead until the two units are sep-arated.

UNCOUPLING SEMI-TRAILER FROM TRUCK-TRACTOR

- 1. Set the trailer hand or parking brake.
- 2. Block the trailer rear wheels.
- 3. Place the screw jacks in position to support the main unit



Generated on 2013-08-14 14:13 GMT / http://hdl.handle.net/2027/uc1.b3241438 Public Domain, Google-digitized / http://www.hathitrust.org/access_use#pd-google frame, and raise the jacks sufficiently to take some of the weight off the truck-tractor.

- 4. Disconnect the jumper cable and the air lines as instructed in paragraphs five through eight under "Uncoupling Full Trailer From Its Dolly."
- 5. Open the tractor's fifth wheel lock holding the trailer king pin.
 - 6. Pull the tractor ahead until the two units are separated.

RELEASING BRAKES AFTER AUTOMATIC OPERATION

If the trailer brakes have been automatically applied by disconnecting the trailer from the towing vehicle, and it is necessary to release the brakes without again connecting the trailer to the towing vehicle, release all air pressure from the trailer air brake system through the reservoir drain cock.

ABNORMAL OPERATING CONDITIONS

Mud, Water, Sand, and Dust

After operating the trailer through mud, water, sand, and dust, it is recommended that the wheel bearings, brakes, and air brake equipment be inspected. Refer to section 4, page 24, for routine inspection.

Extreme Heat and Cold Weather

When operating the trailer in extreme heat or cold weather trailer should be inspected as outlined in section 4, page 24.



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SECTION 4

INSPECTION, LUBRICATION AND ADJUSTMENT

INSPECTION

Trailers should be systematically inspected at regular intervals to insure mechanical efficiency.

Before Starting

- 1. Make sure the parking brake is released, and that the service and emergency air hoses are properly connected.
- 2. Check the inflation of tires, and examine for casing injuries.
- 3. Make sure the jumper cable is connected to the sockets on both the trailer and the towing vehicle; check operation of lights in both standard and blackout positions.
 - 4. Check to see if tools and equipment are in good order.
- 5. Make sure the lunette eye on the drawbar is properly hooked in the pintle hook of the towing vehicle.
- 6. Check to be sure safety chains are hooked to the towing vehicle.
- 7. Be sure the trailer king pin is properly engaged in the dolly fifth wheel or tractor fifth wheel.
- 8. If a full trailer is being used, be sure the air brake system cut-out cock under the gooseneck of the main frame is open.

During Operation

- 1. The operator should be alert to detect unusual sounds, noises or driving characteristics that indicate abnormal functioning of the unit.
- 2. Only under exceptional circumstances should a trailer be operated after indications of trouble have been observed. When in doubt, the vehicle should be stopped and the trouble remedied.

After Operation

1. Carefully inspect the trailer to determine its general



mechanical condition. Inspection should be followed by preventive maintenance.

- 2. Check springs and spring hangers to make sure no failure has occurred.
 - 3. Check the axle and axle U-bolts.
 - 4. Check the wheel studs; tighten any loose stud nuts.
 - 5. Inspect the frame for any cracks; weld if necessary.
- 6. Check the condition of the spare wheel and tire; secure a replacement if necessary.
- 7. Drain the moisture from the reserve air tank, opening the pet cock at the bottom of the tank.

LUBRICATION

The lubrication chart (figures ll-lla-llb) gives information on the points of lubrication, the period, and the type of lubricant. The same information, together with the method of lubrication, is given pictorially on pages 26 - 31.

Wheel Bearing Lubrication

- 1. Tires and wheels must be removed for lubrication of wheel bearings. The procedure for wheel disassembly is discussed on page 46.
- 2. When wheels are removed, clean the hubs, axle spindles and bearings with solvent, dry cleaning or oil, fuel, Diesel. Pack grease (WB No. 2) into bearings with a paddle or the hands, and coat spindle lightly to prevent rust. Wheel bearings should be repacked every 5,000 miles under ordinary conditions, and more often under extreme conditions of mud, sand or dust.

CAUTION: When reassembling the wheel, do not fill hubs with grease; excess grease will work against the grease retainers and enter the brake area, seriously affecting brake action and spoiling the brake linings. Take care not to make the bearing adjusting nut too tight, or bearings will heat and burn out. Tighten the adjusting nut until the wheel binds, then reverse it until the wheel turns freely. narily a quarter- or half-turn backward will be enough. Be sure the adjusting nut is locked securely.

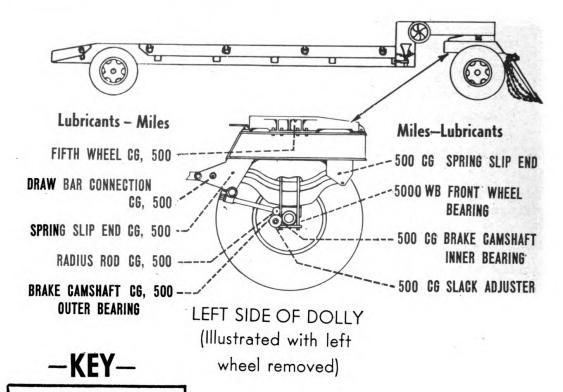


LUBRICATION GUIDE

TRAILER, SEMI, LOW BED, WITH DOLLY, 20-TON

CAUTION

Lubricate Dotted Arrow Points on BOTH SIDES



Lubricants

CG GREASE, general purpose

No. I (above + 32° F.)

No. 0 (below + 32° F.)

WB GREASE, general purpose No. 2

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TIRE PRESSURES

FRONT 55 lb. REAR 55 lb.

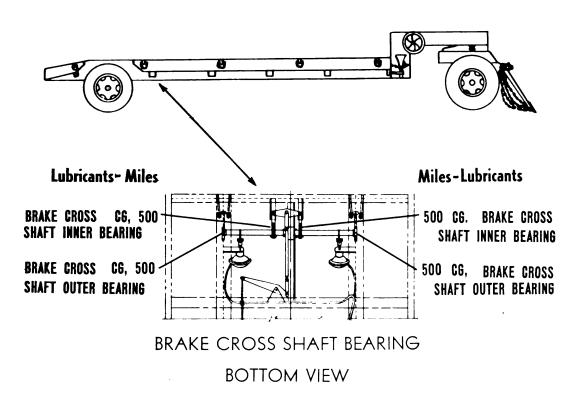
Figure 11—Lubrication Diagram

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LUBRICATION GUIDE

TRAILER, SEMI, LOW BED, WITH DOLLY, 20-TON



-KEY-

Lubricants

CG-GREASE, general purpose

No. I (above $+32^{\circ}$ F.) No. 0 (below $+32^{\circ}$ F.)

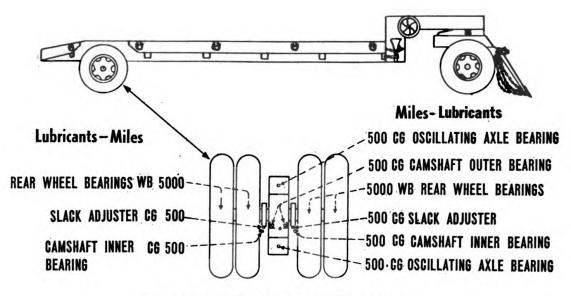
Figure 11A—Lubrication Diagram,

LUBRICATION GUIDE

TRAILER, SEMI, LOW BED, WITH DOLLY, 20-TON



Lubricate Dotted Arrow Points on BOTH SIDES



BOTTOM VIEW OF REAR AXLES

-KEY-

Lubricants

CG – GREASE, general purpose

No. I (above + 32° F.)

No. 0 (below +32°F.)

WB-GREASE, general purpose

TIRE PRESSURES

FRONT 55 lb.

REAR 55 lb.

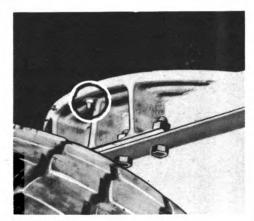
Figure 11B-Lubrication Diagram.

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NOTES

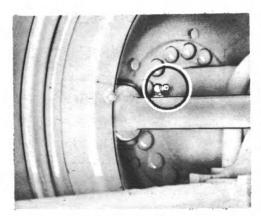
- I. FITTINGS—Clean before applying the lubricant gun.
- 2. CLEANING—A solvent, dry cleaning, or oil, fuel or diesel, will be used to clean or wash all parts. Use of gasoline for this purpose is prohibited. All parts will be thoroughly dry before relubrication.
- 3. MILES—Lubricate chassis parts 500 miles or monthly, and wheel bearings every 5,000 miles or 5 months, whichever occurs first. The miles indicated are for normal service. For extreme conditions of speed, heat, water, mud, snow, rough roads and dust, lubricate more frequently.
- 4. AIR BRAKE FILTERS—(Located on left side of main frame) Every 500 miles remove filter element and wash.
- 5. AIR RESERVOIR—(Located under main frame, left side) Every day before operating vehicle open petcock and drain condensate.
- 6. OIL CAN POINTS Every 500 miles lubricate clevises and pins with OE.
- 7. POINTS REQUIRING NO LUBRICA-TION — Hand Brake and Radius Rod End Joint.



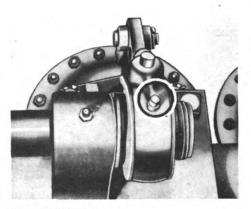
FIFTH WHEEL CG, 500 Miles Grease Gun



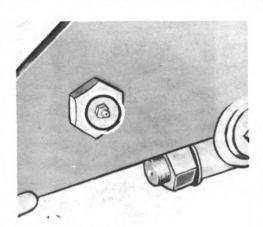
SPRING SLIP END, FRONT CG, 500 Miles Grease Gun



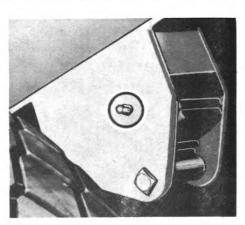
BRAKE CAMSHAFT INNER BEARING, FRONT CG, 500 Miles Grease Gun—Use Sparingly



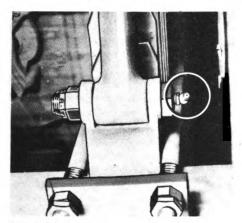
SLACK ADJUSTER C6, 500 Miles Remove Plug, Insert Grease Gun Fitting



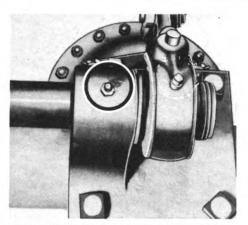
DRAW BAR CONNECTION CG, 500 Miles Grease Gun



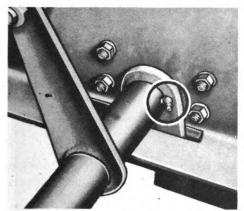
SPRING SLIP END, REAR CG, 500 Miles Grease Gun



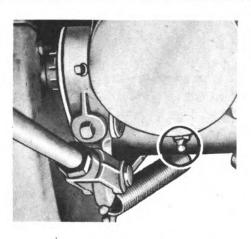
RADIUS ROD C6, 500 Miles Grease Gun



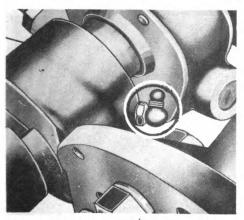
BRAKE CAMSHAFT OUTER BEARING, FRONT CG, 500 Miles Grease Gun—Use Sparingly



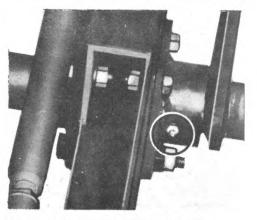
BRAKE CROSS SHAFT OUTER BEARING CG, 500 Miles Grease Gun



CG, 500 Miles OSCILLATING AXLE BEARING Grease Gun



BRAKE CAMSHAFT INNER BEARING, REAR CG, 500 Miles Grease Gun—Use Sparingly



BRAKE CROSS SHAFT INNER BEARING CG, 500 Miles Grease Gun

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Fifth Wheel Lubrication

- 1. The trailer main frame fifth wheel plate and the dolly fifth wheel should be cleaned and lubricated every 5,000 miles or every month.
- 2. For instructions on disconnecting the dolly from the main unit, see page 21.
- 3. Wash the fifth wheel plate on the main unit and the top plate of the dolly fifth wheel with approved solvent, and then cover with a heavy grease.
- 4. Replace the dolly, following the procedure outlined on page 19.

MECHANICAL INSPECTION AND ADJUSTMENT

Drawbar

A wobbly drawbar indicates loose drawbar bushings. Check the drawbar for excess play and rebush if necessary. See page 81.

Lights

Check operation of all trailer lights. Replace any bulbs that may have burned out, and repair any wiring that may have become torn from the frame or loose from connections. See page 74.

Fifth Wheel

Check the dolly fifth wheel to make sure excessive wear is not taking place and that locking springs have not broken.

Underconstruction

- 1. Check the alignment of the front axle. See page 38.
- 2. Examine springs and spring clips. Replace springs in which leaves or clips are broken. See page 78.
- 3. Check linkage and operation of brakes on the front and rear axles. Adjust brakes for equalization at slack adjusters, if necessary. See page 51.
- 4. Examine brake lining and drums every four months, or every 5,000 miles.



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- 5. Examine all air hose line connections and tighten any that may have worked loose.
- 6. Drain the moisture from the air filter and remove the filter cartridge every 500 miles and wash in solvent, dry cleaning, or other approved solvent.
- 7. Check the radius rods for worn bushings. Rebush if necessary. See page 81.

Wheels

- 1. Check wheel nuts and tighten if necessary.
- 2. Remove the hub cap and check bearing adjustment; adjust if necessary.
- 3. Remove, wash, repack and adjust the wheel bearings every five months, or every 5,000 miles. See page 25.

SECTION 5 TOOLS AND ACCESSORIES

TOOLS

Tools regularly supplied with the trailer are shown in figure 12. They are carried in the tool compartment in the gooseneck of the main frame.

ACCESSORIES

Loading Ramps

Two loading ramps are supplied with the trailer. There is an angle ramp support at the rear of the trailer (figure 13) into which the ramps are rested when loading or unloading.

Load Binders and Chains

Three load binders and binding chains (figure 14) are sup-

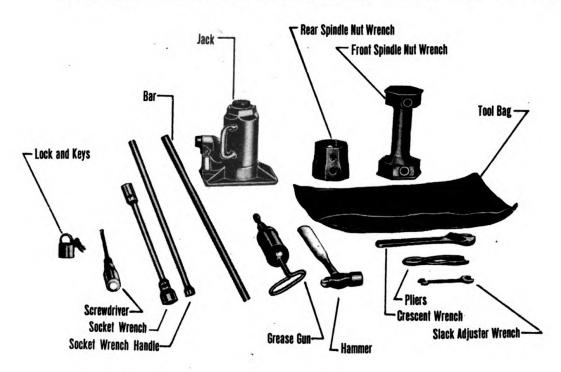


Figure 12—Tools

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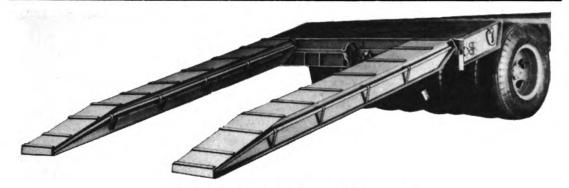


Figure 13—Loading Ramps in Position.

plied, and are to be carried in the tool compartment when not in use.

Jumper Cable

A jumper cable with plugs on both ends (figure 10) is supplied to connect the trailer light circuit to the towing vehicle. It plugs into coupling sockets on the front of the trailer and the rear of the towing vehicle.

Air Brake Hose Assemblies

Two hose assemblies (figure 10) are supplied to connect the trailer brakes to the towing vehicle.

Spare Tire

A spare tire for a rear wheel is mounted in the tire carrier (figure 49)

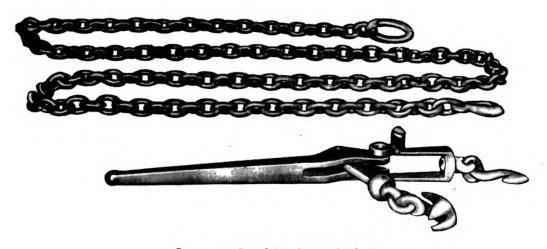


Figure 14-Load Binder and Chain.

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SECTION 6

SHIPMENT AND STORAGE

RAIL SHIPMENT

Instructions given in Tentative Technical Manual TM5-9711, "Instructions for Preparation of Corps of Engineers Equipment for Export," issued by the Engineer Field Maintenance Office, P. O. Box 1679, Columbus, Ohio, should be followed in preparing trailers for rail shipment.

STORAGE

Specifications outlined in Tentative Technical Manual TM5-9715, "Preparation of Corps of Engineers Equipment for Storage," issued by the Engineering Field Maintenance Office, P. O. Box 1679, Columbus, Ohio, should be followed in preparing trailers for storage.

EXPORT SHIPMENT

Instructions contained in Tentative Supplement TM5-9004, "Instructions for Preparation of Corps of Engineers Equipment for Export," issued by the Engineer Field Maintenance Office, P. O. Box 1679, Columbus, Ohio, should be followed in preparing trailers for export shipment.



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SECTION 1

INTRODUCTION

PURPOSE AND SCOPE

This Maintenance Manual has been prepared to instruct repair mechanics in the essentials of disassembly, repair and reassembly of components of the trailer. Sections deal with various components in the order that repairs are most likely to be needed, and cover Axles; Wheels, Tires and Hubs; Brake Adjustment and Relining; Air Brake System; Electrical System and Lights, and Trailer Frame.

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SECTION 2 AXLES

AXLE ALIGNMENT

Front

- 1. The dolly or front axle must be at a right angle to the trailer's line of draft at all times. Axle misalignment is indicated by uneven tire wear. Adjustable radius rods have been provided for axle alignment.
- 2. To check front axle alignment, remove the inner and outer tires and wheels as assemblies. (See page 46.)
- 3. Remove the six capscrews attaching hub caps at each end of the axle; remove the hub caps.
- 4. Place a center punch mark in the center of the drawbar, one inch back from the eye.

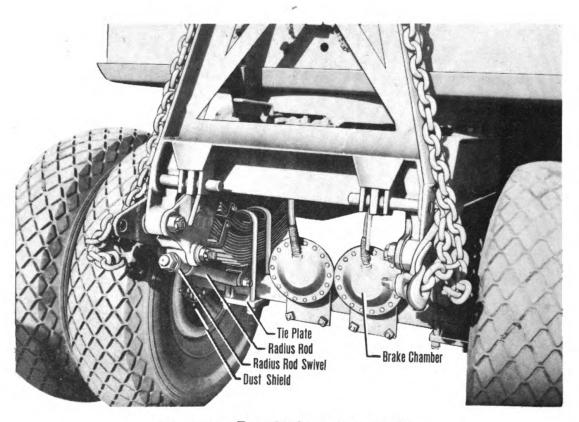


Figure 15—Front Undercarriage of Dolly.



5. Use a steel tape to measure the distance from the center punch mark on the drawbar to the outer end of the axle spindle on both sides. If the measurement is identical, the axle is in alignment.

NOTE: Bushings of the drawbar must be tight to obtain an accurate check of axle alignment. Bushing replacement procedure is given on page 81

- 6. If an adjustment of axle alignment is necessary, remove the hex nut and tongue washer from the front end of the radius rod.
- 7. Remove the cotter pin, castellated nut and bolt holding the radius rod swivel (figure 15) to the spring hanger; slip out the bolt and rubber bushings, releasing the swivel from the hanger.
 - 8. Swing the radius rod down and remove the swivel bracket.
- 9. Insert or remove spacer washers, as required, between the rod collar and the swivel bracket.
 - 10. Reinstall the radius rod, reversing removal procedure.

NOTE: It is seldom necessary to adjust more than one radius rod to obtain axle alignment.

Rear

Rear axles of the trailer are fixed and require no alignment adjustment.

CHECKING FRONT AXLE FOR BEND

- 1. Securely block the rear wheels of the trailer to prevent its shifting.
 - 2. Set the hand brake.
- 3. Lower the screw jacks on each side of the main unit frame and use them to raise the front end of the trailer until the dolly wheels are clear of the ground.

CAUTION: Place blocking under the main unit frame to support the trailer in the event the screw jacks fail or slip.

- 4. Remove the dolly wheel hub assemblies. (See page 49.)
- 5. Place an amle gauge in position on the front side of the amle.



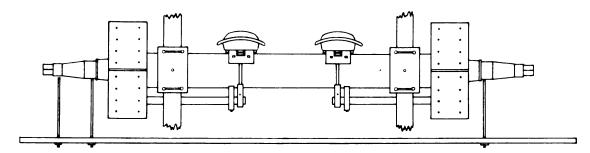


Figure 16—Checking Front Axle for Bend

- 5. Hold the single-pronged end of the gauge firmly against the inner bearing surface at one end of the axle, and adjust the double prongs on the other end of the gauge until they contact the inner and outer bearing surface. (See figure 16.)
- 7. After the double prongs have been adjusted at the front of the axle, move the gauge over to the rear of the axle. If either of the two prongs fail to contact its bearing surface, a bent axle is indicated.
- 8. Use a feeler gauge to determine the amount of bend, and replace the axle if bend is in excess of .002".
- 9. If checking both sides of one spindle reveals no bend in the axle, turn the gauge end for end and check the other spindle without disturbing the setting of the prongs.
- 10. Again, if there is clearance at either bearing surface, check with a feeler gauge and replace the axle if the clearance is in excess of .002".
- 11. If the prongs are in contact at both points, the axle is not bent.

FRONT AXLE

Disassembly

- 1. Securely block the rear wheels of the trailer to orevent its shifting.
 - 2. Set the hand brake.
- 3. Lower the screw jacks on each side of the main unit frame, and use them to raise the front end of the trailer until the dolly wheels clear the ground.

CAUTION: Place blocking under the main unit frame to support the trailer in the event the screw jacks fail or slip.

4. Shut off the air supply to the front axle brake chambers.



by closing the shut-off cock above the tire carrier shaft overating nut on the main unit frame. (See figure 8.)

- 5. Disconnect the air hose lines from the front brake chambers. (See figure 15.)
- 6. Remove the outer and inner wheels with their tires. (See page 46.)
 - 7. Remove the hubs and drums as assemblies. (See page 49.)
- 8. Disconnect the radius rod (figure 15) at its axle end by removing the locking cotter pin, castellated nut and bolt that holds it to the spring seat welded to the axle.
- 9. Support the axle with blocking or a wood horse and remove lock nuts and nuts from the four U-bolts, releasing the lower tie plate and the axle.
- 10. Slide or pull the axle from under the dolly, using a wood horse or mobile jack.
- 11. Remove the six hex-head bolts attaching the dust shields at each end of the axle; remove the dust shields.
- 12. Remove the locking wire from the anchor pin retainer screws; remove the retainer screws.
- 13. Use a screwdriver to remove a lock wire from each brake shoe anchor pin (figure 17); drive out the anchor pins, taking care not to damage their felts.
- 14. Unhook the return spring linking the two brake shoes at the cam end, and remove the shoes.

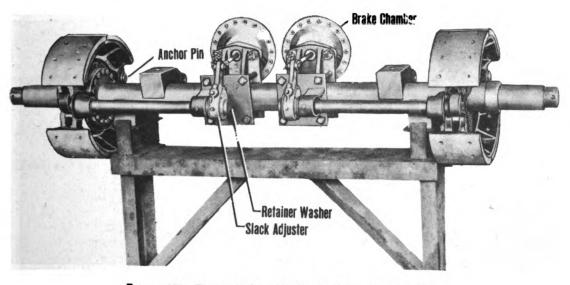


Figure 17—Front Axle, with Brake Shoes in Position



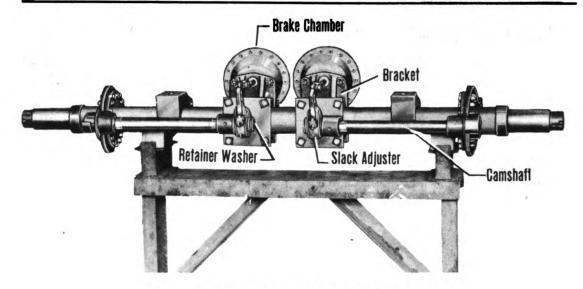


Figure 18—Front Axle, with Brake Shoes Removed

- 15. Disconnect the brake chamber push rod from the slack adjuster, removing the clevis oin.
- 16. Remove the brake chambers from their axle mounting brackets by removing cotter pins and castellated nuts.
- 17. Remove the brake chamber mounting brackets by removing the four bolts holding them to the axle.
- 18. Remove the screw from each slack adjuster retainer washer (figure 18), and slip off the retainer washers; tap the slack adjuster from the end of the camshaft.
- 19. Mark the left- and the right-hand camshaft assemblies so they can be identified for reassembly.
 - Remove the sixteen nuts from bolts attaching each spider

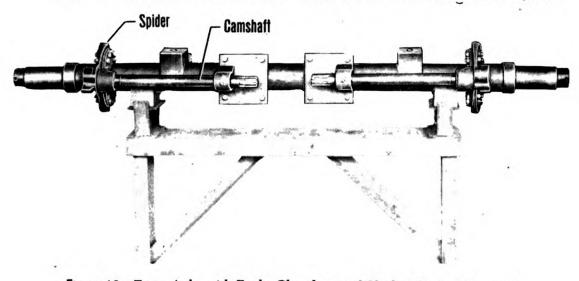


Figure 19-Front Axle, with Brake Chambers and Slack Adjusters Removed

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to its axle flange, and slip the spiders and camshafts from the axle. (See figure 19.)

NOTE: Inspect grease seals and replace if damaged.

Reassembly

To reassemble and reinstall the front axle, reverse the disassembly procedure.

FRONT AXLE TROUBLE CHART

The following chart will aid in diagnosing trouble caused by a faulty front axle:

Symptom	Cause	Remedy
Hard pulling or wandering.	1. Out of line.	 Realign by means of adjustable radius rod.
	2. Bent axle.	2. Replace axle.
Scuffed tires, both sides.	1. Out of line.	 Realign by means of adjustable radius rod.
	2. Bent axle.	2. Replace axle.
Scuffed tires, one side.	•	1. Replace axle.
0.00 5.40.	2. Loose wheel	Tighten wheels and adjust bearings.

REAR AXLES

Disassembly

1. Lift the rear end of the main unit frame with a jack.

CAUTION: Block the front wheels, or the rear wheels on the side opposite the one being serviced, to keep the trailer from shifting, and put blocking under the frame to protect against jack failure.



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- 2. Remove the outer and inner wheels with their tires. (See page 46.)
 - 3. Remove the hubs and drums as assemblies. (See page 49.)
- 4. Disconnect the brake rods (figure 20) at slack adjusters on both sides of the trunnion brackets by removing cotter pins and sliding out the attaching clevis pins.
- 5. Place a jack under the axle to support it after the brackets have been removed.
- 6. Remove nuts from the four bolts attaching each of the trunnion brackets to the trailer frame, transferring the weight of the axle to the jack.
- 7. Slide the axle assembly from beneath the trailer frame and slip off the trunnion brackets.
- 8. Mark the left- and right-hand camshaft assemblies so they can be identified for reassembly.
- 9. Remove the snap lock ring from between the slack adjuster and the spider, releasing the cam and shaft. Pull the cam and shaft from the trunnion, releasing the slack adjuster.
- 10. Remove the six hex-head bolts attaching the dust shields at each end of the axle; remove the dust shields.
- 11. Remove the locking wire from the anchor pin retainer screws; remove the retainer screws.
- 12. Use a screwdriver to remove a lock wire from each brake shoe anchor pin; drive out the anchor pins, taking care not to damage their felts.
- 13. Unhook the return spring linking the two brake shoes at the camend, and remove the shoes.

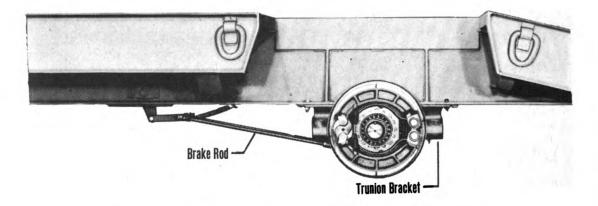


Figure 20—Rear Axle, with Outer Hub and Drum Removed



14. Remove the sixteen nuts from bolts attaching each spider to its axle flange, and slip the spiders from the axle.

NOTE: Inspect grease seals and replace if damaged.

Reassembly See Figure 20A

To reassemble and replace the trunnion axle, reverse the disassembly and removal procedure.

NOTE: Before sliding the mounting brackets over the trunnion axle, coat the axle bearing suffaces with a light film of grease.

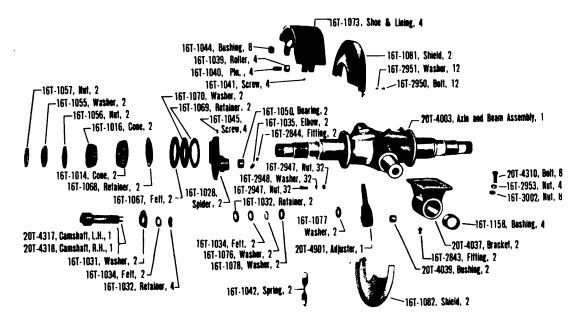


Figure 20A—Trunnion Rear Axle and Brake Parts

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SECTION 3

WHEELS, TIRES AND HUBS

WHEELS

Removal

1. Dual wheels with tires on the front or dolly axle and on the rear or trunnion axles are removed in the same manner.

NOTE: When the four wheels are to be removed from a rear trunnion axle, it is advisable to remove the tires inside the frame first. Oscillation of the axle makes removal of wheels from the inner end of the axle difficult if undertaken after removal of the wheels from the outer end of the axle.

2. To raise the dolly wheels sufficient to clear the ground, lower the jacks at both sides of the main unit frame and jack up the front end of the trailer with its dolly. Block the dolly to prevent its turning on the king pin.

CAUTION: Block the rear wheels of the trailer to prevent movement of the unit. Place block-

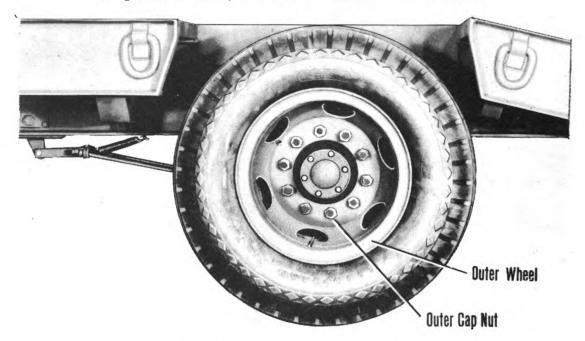


Figure 21—Rear Axle, with Outer Wheel in Place



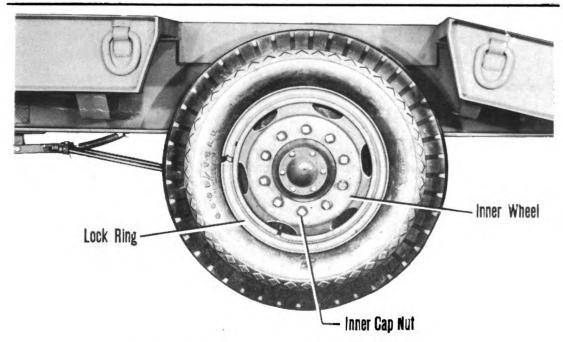


Figure 22-Rear Axle, with Outer Wheel Removed

ing under the front of the main unit frame to guard against injury in the event of jack failure.

3. To raise the rear wheels sufficient to clear the ground, place the hydraulic jack furnished with the trailer under the trunnion axle beam on the side to be serviced and raise the rear end of the trailer.

> CAUTION: Block the opposite rear wheels of the trailer, and of the dolly if it is attached to the main unit, to prevent the trailer from shifting. Place blocking under the rear end of the trailer frome to guard against injury in the event of jack failure.

- 4. Place a greased plank under tires of the wheel to be removed so that the wheel and tire can be slid from the axle. A wheel and tire is too heavy to be easily removed without use of a
- 5. Remove the ten nuts that hold the outer wheel to hub studs (figure 21); slip off the wheel with the tire.

NOTE: Hub studs and nuts used for wheel mountings are marked "R" and "L" to denote righthand and left-hand threads. Those marked "L" must be used on the left side of the trailer, while those marked "R" must be used on the right side.



Generated on 2013-08-15 11:50 GMT / http://hdl.handle.net/2027/uc1.b3241438 Public Domain, Google-digitized / http://www.hathitrust.org/access_use#pd-google 6. Remove the ten inner stud nuts, releasing the inner wheel; slip off the wheel with its tire. (See figure 22.)

Replacement

To replace trailer wheels, reverse the disassembly procedure.

NOTE: Be sure the inner stud nuts are tightened after placing the inner wheel in position and before placing the outer wheel in place. The outer wheel mounts on the inner wheel cap nuts.

TIRES

Removal

- 1. Remove the tire and wheel as an assembly from the hub. (See page 46.)
- 2. Remove the core from the valve stem to permit the air to escape from the tube.
- 3. Insert a tire tool in the locking ring, next to the split in the ring; pry off the ring.
 - 4. Remove the tire from the wheel.

Replacement

- 1. Place the tube in the casing and inflate slightly. Place the tire flap carefully in position to protect the tube from contact with the wheel.
- 2. Place the wheel on the floor or ground with the valve slot up.
 - 3. Place the tire over the wheel with the valve up.
- 4. Start the locking ring on the wheel in a clockwise direction, prying it down on the wheel.
- 5. Check the wheel and locking ring to make sure they are properly coupled; inflate the tire.

CAUTION: Before inflating the tire, wrap two safety chains loosely around two different points of the tire and wheel to safeguard against injury should the locking ring let go during inflation.



Replace the inflated tire and wheel, as an assembly, on the hub. (See page 48.)

HUBS AND BRAKE DRUMS

Removal—Front

- Remove the six cap screws, with their lock washers, that hold the hub cap to the hub; slip off the cap, taking care not to damage its gasket or to let it fall into the dirt.
 - Remove the cotter pin locking the castellated nut.
- Use the spindle nut wrench furnished with the trailer to loosen and remove the castellated nut.
- 4. Jerk the hub and drum assembly outward sharply to start the outer bearing off the spindle. Push the hub and drum back on the axle and carefully remove the bearing by hand.
 - 5. Pull off the hub and drum assembly.
- The hub, drum and oil slinger may be separated readily by removing the hex nuts from the ten hub and drum studs within the drum.
- The inner bearing may be removed by removing six capscrews holding the dust collar within the drum. Removal of the dust collar releases the inner bearing.

Removal-Rear

 Remove the six cap screws, with their lock washers, that hold the hub cap to the hub; slip off the cap, taking care not to damage its gasket or to let it fall into the dirt.

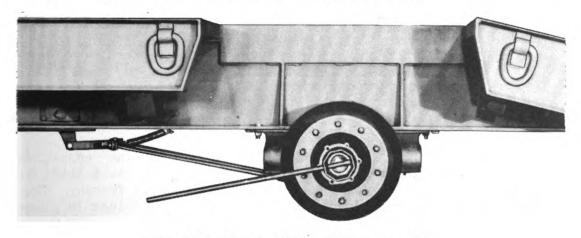


Figure 23—Removing Hub and Drum Assembly



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- 2. Use the spindle nut wrench furnished with the trailer to loosen and remove the outer spindle nut. (See figure 23.)
- 3. Slip off the tongue washer between the outer nut and the wheel bearing adjusting or inner nut.
- 4. Use the spindle nut wrench to remove the inner nut from the axle.
- 5. Jerk the hub and drum assembly outward sharply to start the outer bearing off the spindle. Push the hub and drum back on the axle and carefully remove the bearing by hand.
 - 6. Pull off the hub and drum assembly.
- 7. Slip off the inner bearing, taking care to protect it from dirt.
- 8. The hub, drum and oil slinger may be separated readily by removing the hex nuts from the ten hub and drum studs within the drum.

NOTE: Inspect grease seals and replace if damaged.

Replacement—Front and Rear

- 1. Clean all parts thoroughly in a suitable cleaning solvent.
- 2. Inspect all parts and replace any that are worn or damaged.
- 3. Pack the wheel hub with wheel bearing grease, WB-1, in a 1/2-inch layer around the axle in the space between the inner and outer bearings.
- 4. Place the assembled drum and hub on the axle, reversing disassembly procedure.
 - 5. Replace the outer bearing.
- 6. Install nut and tighten until the drum cannot be rotated by hand; then loosen it gradually until the drum rotates freely. Lock the nut in place with a cotter pin.
- 7. On the rear axle, place the inner or bearing adjusting nut on the axle and tighten until the drum cannot be rotated by hand; then loosen it gradually until the drum rotates freely. Slip a tongue washer on the axle spindle over the nut, and lock in place with the outer nut.
 - 8. Replace the hub cap.



SECTION 4

BRAKE ADJUSTMENT AND RELINING

MINOR BRAKE ADJUSTMENT

- The adjustment of front and rear brakes is identical.
- Jack up the wheels, and turn the adjusting nut of the slack adjuster at each wheel clockwise until the wheel cannot be turned.
- 3. Back the adjusting nut off two notches or more so that no drag is felt on the brake drum.

BRAKE RELINING

Front and Rear

- 1. Inspection holes in each drum permit visual inspection of brake shoes and linings without removing the wheels from the axle. Inspection can be made readily to determine extent of lining wear, and whether grease is impairing brake efficiency.
- 2. When relining is necessary, the four brake blocks of a brake assembly must be replaced.
 - 3. Remove the tire and wheel assemblies. (See page 46.)
 - 4. Remove the wheel hub and drum assembly. (See page 49.)

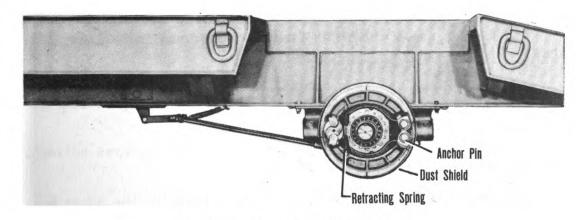


Figure 24—Rear Axle Brake Shoes



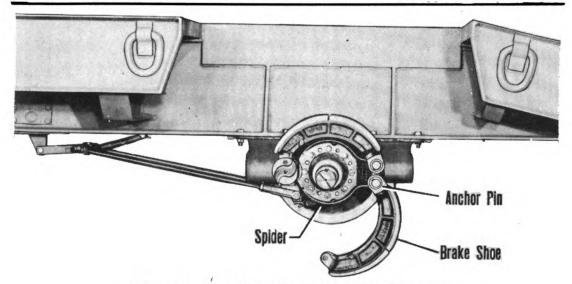


Figure 25—Rear Axle, Showing Brake Shoe Removal

- 5. Remove the cap screws with lock washers that attach the dust shield assembly to spider and take off the shield. (See figure 24.)
 - 6. Remove the brake shoes:
- a. Remove the locking wire from the anchor pin retainer screws; remove the retainer screws.
- b. Use a screwdriver to remove the lock wire from each anchor pin.
- c. Unhook and remove the brake shoe retracting spring (figure 24).
- d. Drive out the anchor pins, taking care not to damage their felts. (See figure 25.)
- e. Remove the brake shoes from the spider. (See figure 26.)
- 7. Remove the old linings from the shoes and install new linings.
- a. Place the shoe across an open vise and use a long 3/16-inch tapered punch to drive out the brake lining rivets, releasing the old linings.
- b. Wash the shoes in gasoline or other approved solvent, using a wire brush or wire buffing wheel.
- c. Use C-clamps to hold the new lining to the shoe, making sure the lining is placed so that holes in it and in the shoe line up. Use a brake relining machine to install five rivets. Re-



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move the clamps and install the remaining rivets,

NOTE: If a brake relining machine is not available, place a 7/16-inch bolt firmly in a vise, with the thread end up, and use it as a bucking tool while peening the rivets with a small ball peen hammer.

- 8. To install relined brake shoes, reverse the disassembly procedure.
- 9. Replace the wheel hub and drum as an assembly. (See page 50.)
 - 10. Replace the tires and wheels as units. (See page 48.)

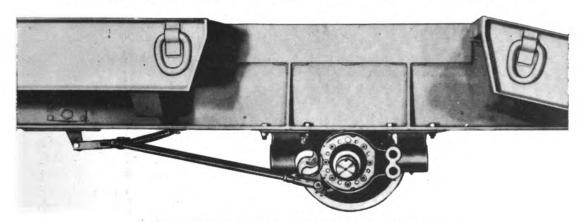


Figure 26—Rear Axle with Brake Shoe Removed.

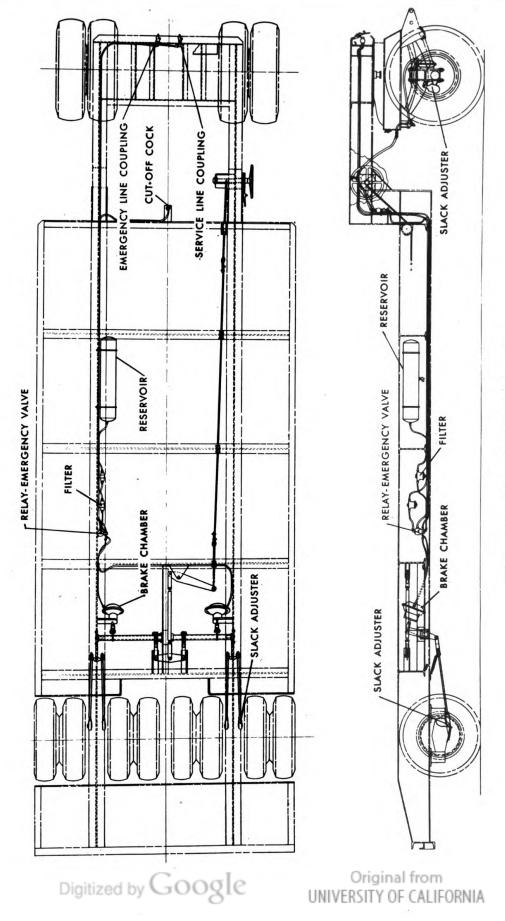


Figure 27— Air Brake System Diagram.

SECTION 5

AIR BRAKE SYSTEM

PREVENTIVE MAINTENANCE

- 1. Monthly, or after each 1,000 miles.
- a. Check travel of brake chamber push rods and adjust brakes if necessary. Push rod travel should be kept at the minimum without brakes dragging.
- (1) Adjust all brakes by turning the adjusting screw on the end of each slack adjuster worm shaft. All slack adjusters are fitted with a friction type lock arrangement so the adjustment is automatically locked.
- (2) Jack up each wheel, and make the adjustment as close as possible without the brakes dragging.
- (3) After proper adjustment and with the brakes applied, the slack adjuster arm and the brake chamber push rod should form an angle slightly less than 90 degrees, and all slack adjusters on the trailer should be at this same angle.
 - b. Remove drain plugs and drain air line filters.
- c. Inspect all hose assemblies for abrasions, swelling or other damage. Replace if necessary.
- d. Inspect all hose coupling gaskets for abrasions, swelling or other damage. Replace if necessary.
 - e. Test air brake system for serviceability.
 - 2. Every Six Months, or after 6,000 miles.
- a. Remove covers from air line filters and inspect condition of strainers. Clean or replace if necessary.
- b. Remove grease plugs and lubricate all slack adjusters with chassis lubricant, using a grease gun. One or two shots should be sufficient.

CAUTION: Do not operate grease gun too long, otherwise the pressure of the grease may distort the cover plates or even break the rivets and force the cover plates off the slack adjuster body.



- c. Inspect all tubing and fittings for damage. It is important that tubing not be collapsed or dented at any point as this restricts the flow of air and affects the operation of the air brake equipment. Replace all damaged tubing or tubing fittings.
- d. Test all air brake devices in the air brake system for serviceability.

TESTING FOR SERVICEABILITY

- 1. Complete Air Brake System. (See figure 27.)
- a. Connect the trailer air brake system to the air brake system of the towing vehicle. (See page 20.) Start the engine, if necessary, to charge both air brake systems to 100 pounds, as registered by the dash gauge on the towing vehicle.
 - b. Leakage tests.
- (1) With the engine stopped and the brakes released, observe the rate of drop in air pressure registered by the dash gauge on the towing vehicle. The rate of drop in air pressure should not exceed three pounds per minute.
- (2) With the engine stopped and brakes fully applied, observe the rate of drop in air pressure registered by the dash gauge. The rate of drop in air pressure should not exceed four pounds per minute.
- (3) Leakage in either of the above tests is the combined leakage in the air brake system on the towing vehicle and the air brake system on the trailer. Leakage in the trailer air brake system is determined by comparing the leakage in the above tests with the leakage found in similar tests with the cut—out cocks in the hose lines connecting the towing vehicle to the trailer closed.
- (4) If leakage in either of the above tests is excessive, check all devices and connections for leakage, and repair or replace the leaking device or connection.

c. Operating tests.

- (1) With the vehicles moving, apply the brakes and check their effectiveness. Check for quick braking response on all wheels during application and release of the brakes.
- (2) With the vehicles stopped, close the cut-out cock in the emergency line at the rear of the towing vehicle. Disconnect emergency hose line from the trailer. Check to be sure all trailer brakes apply automatically without any noticeable leakage at the emergency line hose coupling at the front of the trailer, or at the relay-emergency valve.



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- (3) Reconnect the emergency hose line and open the emergency line cut-out cock at the rear of the towing vehicle. The trailer brakes should release automatically.
- (4) If the brake system fails to pass any of the above operating tests, check all units for serviceability.
 - 2. Relay-Emergency Valve. (See figure 28.)
 - a. Operating tests.
- (1) With the air brake system charged, apply the brakes and check to be sure all brakes apply properly.
- (2) Release brakes and check to be sure air pressure is exhausted promptly from the exhaust port of the relay-emergency valve, through the exhaust check valve.

b. Leakage tests.

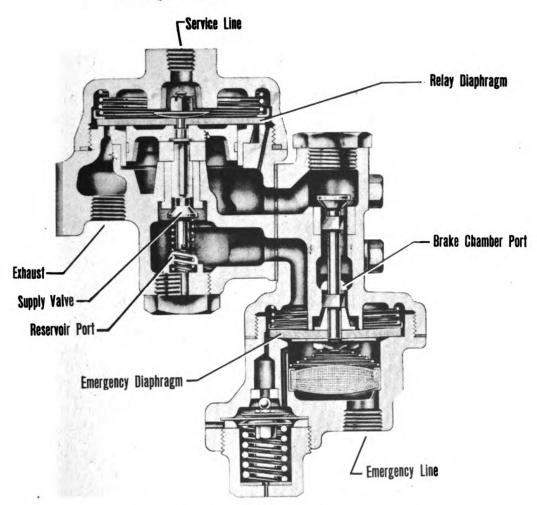


Figure 28—Cross Section of Relay Emergency Valve.

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- (1) With the brakes released, coat the exhaust port of the exhaust check valve with soap suds to determine leakage.
- (2) With the brakes fully applied, coat the exhaust port with soap suds to determine leakage.
- (3) With the relay-emergency valve in its emergency position, coat the exhaust port of the relay-emergency valve with soap suds to determine leakage.
- (4) Leakage in any of the above tests should not exceed a three-inch soap bubble in three seconds. If excessive leakage is found, the relay-emergency valve should be replaced.
 - 3. Brake Chambers. (See figure 29.)
 - a. Operating tests.
- (1) Apply the brakes and observe that the brake chamber push rods move out promptly without binding.
- (2) Release the brakes and observe that the brake chamber push rods return to their release position promptly without binding.



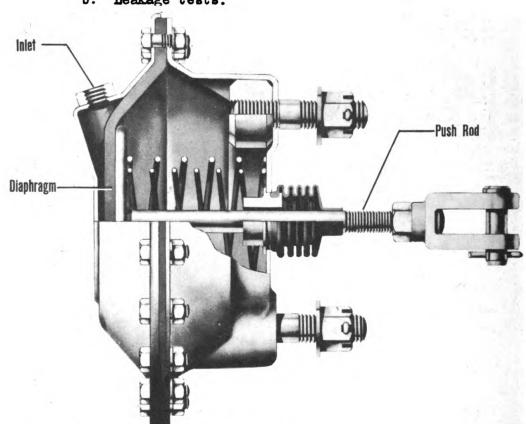


Figure 29—Cross Section of Brake Chamber.



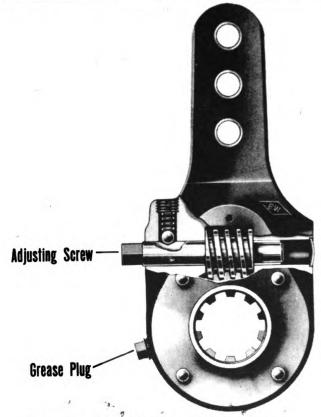


Figure 30—Cross Section of Slack Adjuster.

- (1) With brakes fully applied and while holding the diaphragm in place, coat the bolting flanges with soap suds to check for leakage. No leakage is permissible. If leakage is found, tighten the flange bolts. All flange bolts must be tightened evenly and only sufficiently to prevent leakage; otherwise the diaphragm will be distorted and premature failure will result.
- (2) With the brakes fully applied, check for leakage through the diaphragm by coating the clearance hole around the push rod and the drain holes in the non-pressure plate with soap suds. No leakage is permissible. If leakage is found, the diaphragm must be replaced.
- (3) Excessive push rod travel will cause premature failure of the brake chamber diaphragm. When diaphragms are replaced, brake chamber release springs should also be checked and replaced if necessary. It is important when replacing brake chamber springs to always install the same type of spring as the one removed; otherwise uneven braking will result.
 - 4. Slack Adjuster. (See figure 30.)
 - a. Operating tests.
- (1) Adjust brakes (see page 51) and note brake chamber push rod travel when brakes are applied. Make several



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brake applications and again check push rod travel. Push rod travel should remain the same as it was after adjustment. If the push rod travel increases, or if difficulty is experienced in keeping the brakes adjusted in service, the slack adjuster must be replaced.

5. Air Filter. (See figure 31.)

a. Operating tests.

- (1) Remove cover and inspect the condition of the air strainer. Curled hair strainers should be washed in cleaning solvent and dried before being replaced. Cotton type strainers must be cleaned by carefully brushing dust or dirt off the outside. If either type of strainer is covered with an oily or gummy deposit, a new strainer must be installed. When assembling filters, a new gasket must be used. Cotton strainers may be used to replace curled hair strainers.
- (2) The frequency of cleaning the filter, or replacing the strainer, depends entirely upon the operating conditions and the amount of dirt passing into the filter.

b. Leakage tests.

(1) With the brakes applied, coat the outside of the filter with soap suds to check for leakage. No leakage is permissible. If any leakage is found through the walls of the filter, the filter must be replaced. If leakage is found past the gasket between the cover and the body of the filter, the cover should be tightened or a new gasket installed.

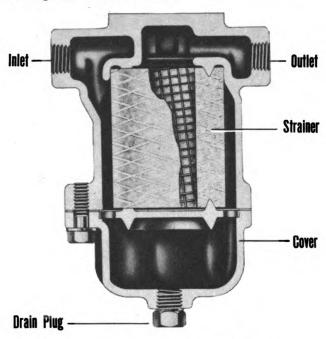


Figure 31—Cross Section of Air Filter.



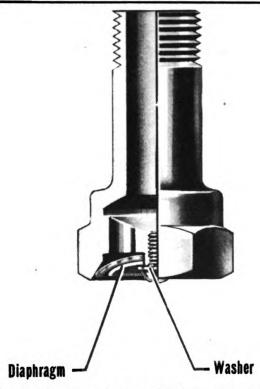


Figure 32—Cross Section of Exhaust Check Valve.

- 6. Exhaust Check Valve. (See figure 32.)
 - a. Leakage test.
- (1) Remove the exhaust check valve and immerse the lower half of the valve containing the diaphragm in water. Check for leakage of water past the diaphragm into the check valve. No leakage is permissible. If leakage is found, remove the diaphragm and inspect its condition and the condition of the diaphragm seat. If leakage is caused by the presence of dirt, cleaning the diaphragm seat.

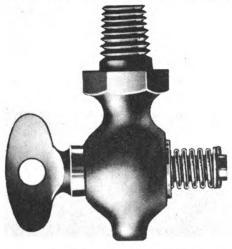


Figure 33—Cross Section of Drain Cock.

phragm seat should correct the trouble. If leakage is caused by a defective diaphragm, the diaphragm must be replaced. If leakage is caused by a damaged diaphragm seat, the complete exhaust check valve must be replaced.

7. Drain Cock. (See figure 33.)

a. Leakage tests.

- (1) With the air brake system fully charged, test for leakage past the key, using soap suds. Also check for leakage through the body by coating the outside of the drain cock with soap suds.
- (2) Leakage in excess of a three-inch soap bubble in three seconds is not permissible.
- (3) Leakage will be caused by a dirty or damaged key or body. Leakage due to dirt can be corrected by cleaning and applying a thin coating of cup grease to the key before assembling. Leakage due to a damaged key or body cannot be repaired, and the drain cock must be replaced.

8. Reservoir. (See figure 34.)

a. Leakage test.

(1) With the brake system charged, coat the outside of the reservoir with soap suds to check for leakage. No leakage is permissible. If any leakage is found, the reservoir must be replaced.

,b. Inspection.

- (1) Inspect the inside and outside surfaces for damage or corrosion. A small flashlight is helpful when inspecting the interior. If any damage or corrosion is found that would weaken the reservoir, the reservoir must be replaced.
- 9. Hose, Hose Assemblies and Hose Connectors. (See figures 35 and 36.)

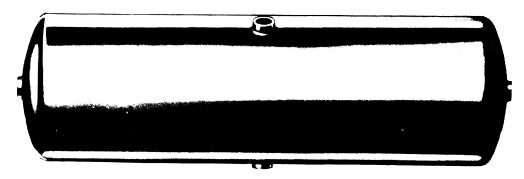
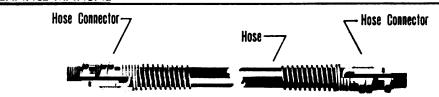


Figure 34—Air Brake System Reservoir.





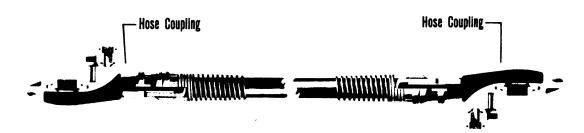


Figure 35—Cross Section of Typical Hose Assemblies

a. Operating tests.

(1) If any evidence is found indicating that a hose line is restricted, it must be removed and air must be blown through it in both directions to be sure the passage through the hose is clear and not obstructed in any way.

b. Leakage tests.

(1) With brakes applied to be sure the hose line being tested is under air pressure, coat the outside of the hose and hose connectors with soap suds to check for leakage. No leakage is permissible. Leakage at the connectors is sometimes corrected by tightening the connector nut. If this fails to correct the leakage, the connectors, hose, or both, must be replaced.

c. Replacement.

(1) Hose assemblies are easily repaired by removing the detachable connectors and installing a new piece of hose, as follows:

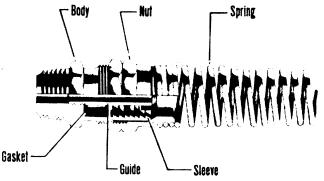


Figure 36—Cross Section of Hose Connector.



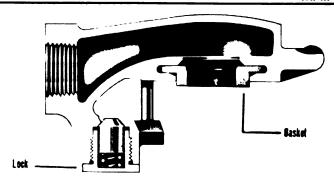


Figure 37—Cross Section of Hose Coupling.

- (2) Remove connector nut and pull hose out of the connector body. Do not attempt to remove used sleeve from hose.
- (3) Cut a new piece of hose to required length, being sure the cut is made at right angles to the outside wall of the hose and that the end of the hose is smooth.
- (4) Blow out the hose with an air hose to remove all cuttings.
- (5) Position the connector nut and sleeve on the hose, being sure the barbs on the inside of the sleeve point toward the end of the hose being connected.

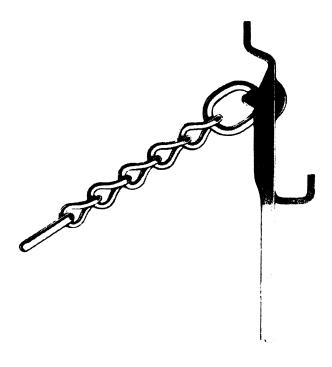


Figure 38—Dummy Coupling.

- (6) Position the new gasket over the end of the guide in the connector body so the side with removal protector covering is next to the hose. Remove the protector covering from the gasket.
- (7) Put the end of the hose in the connector body, making sure the end of the hose and the gasket are against the bottom of the recess in the connector body.
- (8) Move the sleeve until it is against the edge of the connector body. Tighten the connector nut. It is only necessary to tighten the nut sufficiently to insure an air-tight joint.
- (9) When installing a hose assembly, where both ends are permanently connected, the hose connector at either end is used as a swivel by loosening the nut on one of the connectors. The hose is then turned in the loose connector before the connector nut is again tightened. This permits the installation of the hose assembly without the hose being kinked or twisted.
- 10. Hose Couplings and Dummy Couplings. (See figures 37 and 38.)

a. Leakage tests.

- (1) With the hose couplings connected, cut-out cocks opened, and brakes applied, coat the hose couplings all over with soap suds. There should be no leakage.
- (2) Leakage is usually caused by worn, damaged or improperly installed gaskets. To correct leakage, install a new gasket.
- (3) Old gaskets should be removed by prying them out with a screwdriver.
- (4) Before attempting to install a new gasket, be sure the groove in the coupling in which the gasket fits is thoroughly cleaned; otherwise it is impossible to properly install a new gasket.

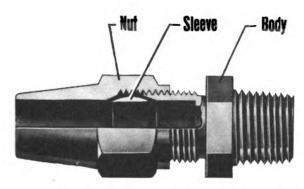


Figure 39—Cross Section of Typical Tubing Connector.



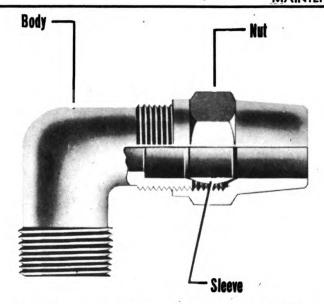


Figure 40—Cross Section of Typical Tubing Elbow.

(5) To install a new gasket, partially collapse it with the fingers and enter one side of the gasket flange in the groove in the coupling. Then use a blunt nose screwdriver or some similar instrument to push the gasket into place. When properly installed, the exposed face of the gasket is flat and not twisted or bulged at any point.

11. Tubing and Tubing Fittings. (See figures 39 and 40.)

a. Operating tests.

- (1) If any evidence is found indicating that a tubing line might be restricted, it must be removed and air blown through it in both directions to be sure the passage through the tubing is clear and not obstructed in any way.
- (2) Tubing should also be inspected for partial restrictions such as may be caused by dents or kinks. Tubing having dents or kinks must be replaced.

b. Leakage tests.

(1) With the air brake system fully charged and brakes applied, coat all tubing lines and fittings with soap suds to check for leakage. No leakage is permissible. Leakage at the tubing fitting is sometimes corrected by tightening the tubing fitting nut. If this fails to correct the leakage, the tubing fitting, or both, must be replaced. If any leakage is found in the tubing, a new piece of tubing must be installed.

c. Replacement.

(1) When replacing tubing lines, always be sure to



use tubing having the same inside and outside diameter as the piece being replaced.

- (2) Cut tubing to required length with a hack saw or tubing cutter. As the cut is made, make sure the end of the tubing is smooth and that it is cut squarely with the outside wall. Also, be sure the ends of the tubing are not crimped or partially closed. Ream or file the ends of the tubing, if necessary.
- (3) Blow out tubing with an air hose to remove all cuttings and filings. This is very important.
- (4) Place the nut and sleeve on the tubing and put the end of the tubing in the recess in the tubing fitting body.
- (5) Hold the tubing at the bottom of the recess and tighten the nut to seal the joint against leakage. It is only necessary to tighten the nut until sufficient pressure is placed on the sleeve to prevent leakage. Always use a new sleeve when replacing tubing lines. Tubing fitting nuts and bodies may be used again provided they are in serviceable condition.

12. Quick Release Valve. (See figure 41.)

a. Operating tests.

(1) Apply brakes and observe that when the brakes are released, air pressure is quickly exhausted through the exhaust port of the valve. Be sure the exhaust port is not restricted in any way.

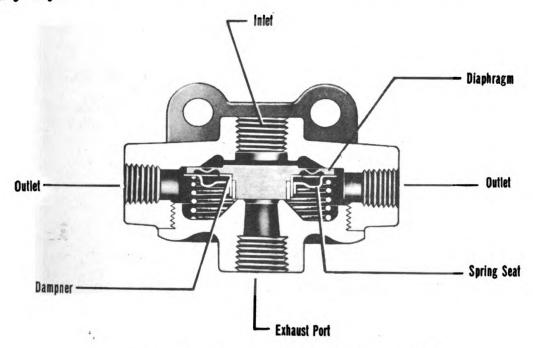


Figure 41—Cross Section of Quick Release Valve.



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b. Leakage tests.

(1) With the brakes applied, coat the exhaust port with soap suds to detect leakage. Leakage in excess of a three-inch soap bubble in three seconds is not permissible. If excessive leakage is found, the quick release valve must be replaced.

13. Cut -Out Cock. (See figure 42.)

a. Operating tests.

- (1) Cut-out cocks are open when the handle is at a 90-degree angle with the body of the cock, and closed when the handle is parallel with the body of the cock. Stops are provided so the handle cannot be turned beyond its normal open or closed positions.
- (2) Cut-out cocks should always be opened and closed by hand. The handle should never be struck with a hammer or any such heavy instrument, otherwise the cock will be damaged and leakage will develop.
- (3) When installing or removing cut-out cocks, or when connecting hose lines to them, be sure to use the wrench on the end of the cut-out cock being tightened. Any severe strain put on the cut-out cock body, due to using the wrench on the wrong end of the body, will distort the body and cause leakage.

b. Leakage tests.

(1) With the brakes applied and cut-out cock closed

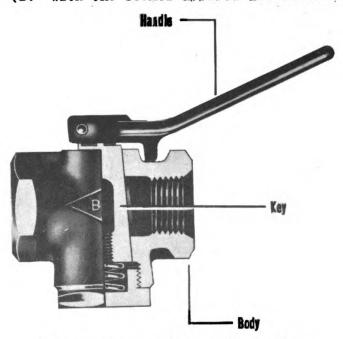


Figure 42-Cross Section of Cut-Out Cock



(hose line disconnected), test for leakage past the key, using soap suds. Also check for leakage through the body by coating the outside of the cut-out cock with soap suds.

- (2) With brakes applied and cut-out cock open (hose line disconnected), check for leakage through the body by coating the outside of the cut-out cock with soap suds.
- (3) Leakage in excess of a three-inch soap bubble in three seconds in either of these tests is not permissible.
- (4) Leakage is caused by a dirty or scored key or body. Leakage due to dirt can be corrected by cleaning and applying a light coating of cup grease on the key before assembly. Leakage due to a scored key or body cannot be repaired and the cut-out cock must be replaced.

TROUBLE SHOOTING

Inasmuch as the air brake system on a trailer is dependent upon the air brake system of the towing vehicle for its air supply
and control, the air brake system of the towing vehicle must be in
good condition to obtain good brake performance on the trailer.
Before condemning the air brake system on a trailer, always check
to be sure the air brake system on the towing vehicle is functioning properly.

The following trouble chart will be helpful in tracing deficiencies in the air brake system:

TROUBLE CHART

SYMPTOM

POSSIBLE CAUSE

POSSIBLE REMEDY

- 1. Insufficient brakes.
- (a) Brakes need adjusting, lubricating or relining.
- (a) Adjust, lubricate or reline brakes.
- (b) Low air pressure in the air brake system (below 80 pounds).
- (b) Correct cause by checking for leaks. (See page 56.)
- (c) Defective relayemergency valve.
- (c) Check relay-emergency valve; repair or replace.

- 2. Brakes apply too slowly.
- (a) Brakes need adjusting, lubricating or relin-
- (a) Adjust or lubricate brakes.

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(b) Low air pressure. (b) Correct cause of low pressure in air brake system. (See page 56.) (c) Restriction in (c) Repair or replace tubing or hose line. line. (d) Clogged air line (d) Clean filter. filter. (e) Excessive leakage (e) See Symptom 9. with brakes applied. (a) Adjust or lubri-Brakes release (a) Brakes need adtoo slowly. justing or lubcate brakes. ricating. (b) Defective exhaust (b) Repair or recheck valve in explace. haust port of relay-emergency valve. (c) Exhaust port of (c) Remove plug. relay-emergency valve plugged with pipe plug. (d) Restricted tubing (d) Repair or reor hose line. place. (e) Clogged air line (e) Clean filter. filter. Brakes do not (a) Cut-out cocks im-(a) Open cut-out cocks. apply. properly closed. Connect lines (b) (b) Brake system not properly connected correctly. to brake system of towing vehicle. (c) Charge brake (c) No air pressure in brake system. system. (d) Restriction in tub- (d) Recair or reing or hose line. place. (e) Clean filter. (e) Clossed air line filter. Original from

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5.	Brakes do not release.	(a)	Brake system im- properly connec- ted to brake sys- tem of towing vehicle.	(a)	Connect lines correctly.
		(b)	Brake valve on towing vehicle in applied position.	(b)	Move brake valve to released position.
		(c)	Brake rigging binding.	(c)	Lubricate or ad- just brake rigging.
		(d)	Relay-emergency valve in emergency position.	(d)	Build up pressure in towing vehicle brake system or open reservoir drain cock on trailer.
		(e)	Cut-out cocks improperly closed.	(e)	Open cut-out cocks.
		(f)	Restriction in tubing or hose line.	(f)	Repair or replace.
6.	Brakes grab.	(a)	Grease on brake lining.	(a)	Reline brakes.
		(b)	Brake rigging binding.	(b)	Lubricate brake rigging.
		(c)	Defective relay- emergency valve.	(c)	Repair or replace.
7.	Uneven brakes.	(a)	Brakes need ad- justing, lubrica- ting or relining.	(a)	Adjust, lubricate or reline brakes.
		(b)	Grease on brake lining.	(b)	Reline brakes.
,		(c)	Brake shoe release spring or brake chamber release spring broken.	(c)	Replace broken spring.
		(d)	Brake drum out of round.	(d)	Repair or replace brake drum.
		(e)	ber diaphragm.		Replace brake chamber diaphragm.
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- 8. Excessive leak- (a) age with brakes released.
- a) Relay-emergency valve leaking.
- (a) Replace relay-emergency valve.
- (b) Leaking lines and connections.
- (b) Repair or replace.

- 9. Excessive leak- (a) age with brakes fully applied.
- (a) Leaking relayemergency valve.
- (a) Replace relayemergency valve.
- (b) Leaking brake chamber diaphragm.
- (b) Replace diaphragm.
- (c) Leaking lines or connections.
- (c) Repair or replace.

- 10. Excessive leakage with brakes applied and relay-emergency walve in emergency position.
- 10. Excessive leak- (a) Defective relayage with brakes emergency valve.
- (a) Replace relayemergency valve.

- 11. Excessive oil and water present in the air brake system.
- (a) Reservoirs not being drained often enough.
- (a) Drain all reservoirs at least once a week, daily if necessary.
 Clean system if necessary.
- (b) Compressor on towing vehicle passing excessive oil.
- (b) Replace compressor.

NOTE: Detailed instructions covering the disassembly, inspection, repair, assembly, and test of (Air Brake Device) after they have been removed from a vehicle are given in TM9-1827A. This manual is contained in reference libraries of Engineer Heavy Shop Companies and Engineer Maintenance Companies.

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SECTION 6

ELECTRICAL SYSTEM AND LIGHTS

The electrical circuits used on this trailer are illustrated in the general electrical circuit diagram, figure 43. This diagram should be used to trace the various circuits for wiring replacement or repair. Electrical units are shown on the diagram in their relative position, and each wire in the system is of distinctive color with the key given in the diagram.

The lighting equipment includes two amber and two red clearance lamps, two red and two blue blackout lamps, one combination blackout stop and tail light and one combination service stop and tail light and blackout tail lamp.

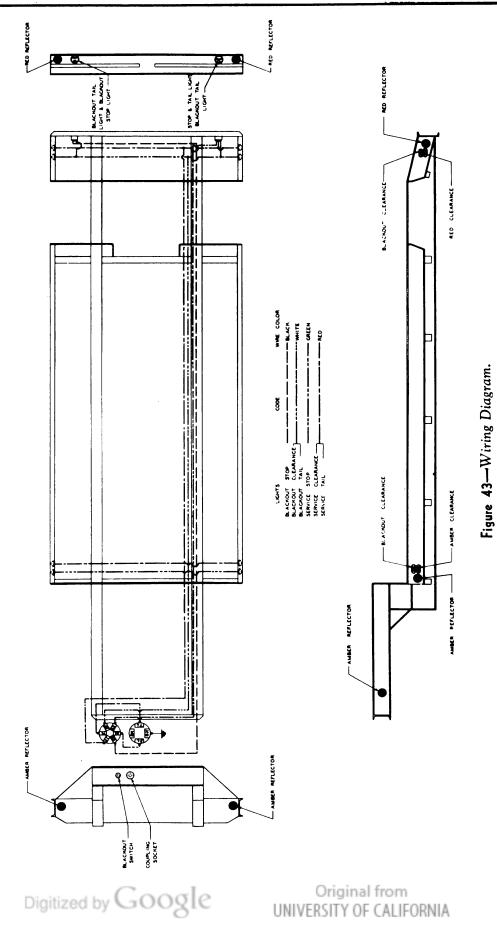
Lights Blackout Stop and Tail

- 1. The combination service stop and tail light and blackout tail lamp is located at the left-hand rear of the trailer, while the combination blackout stop and blackout tail light is at the right-hand rear.
- 2. The lens of each blackout tail lamp is designed to produce two beams, so directed that when one vehicle is following another vehicle at a specified safe distance the two beams merge into a single high visible beam.
- 3. To obtain the accuracy necessary to insure this effect, the bulb is soldered to the lens retainer, and the lens and filter are crimped to the retainer to form a complete unit. When the bulb burns out, it is necessary to replace the complete bulb unit. (See figure 44.)

Clearance Lamps

- 1. The service procedure on standard clearance lamps and blackout clearance lamps is identical.
- 2. To replace a lens, turn the two screws (figure 44) that hold the lens housing to the lamp about three-quarters of the way





out and lift off the housing. Push either of the two clips from the lens and lift the lens out of the housing. Place a new lens in position, with the marking "bottom" at the lower end, and reverse the removal procedure. Be sure the felt gasket is in position between the backing plate and the housing.

- 3. To replace a bulb, turn the two screws holding the lens housing about three-quarters of the way out and lift off the housing. Push either of the two clips from the lens and lift the lens out of the housing. Remove the old bulb and insert a new one. Return the lens to its correct position, with the side marked "bottom" at the lower end, and reassemble by reversing the disassembly procedure. Be sure the felt gasket is in position between the backing plate and the housing.
- 4. To replace a lamp assembly, remove the lens housing, the felt gasket and the four bolts holding the lamp backing plate to the trailer frame. Pull out the lamp and cut the spliced wire so as to leave it as long as possible. When installing a new lamp, use solder to make the connections. If solder is not available, splice the wires and tape them securely.

COUPLING SOCKET

1. The coupling socket (figure 9) is protected against entrance of dirt when the trailer is not in use by a spring cover.

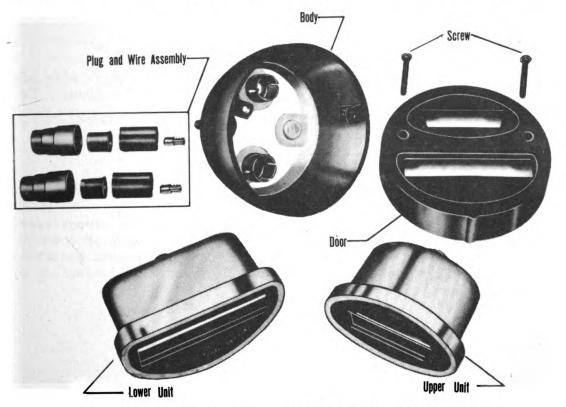


Figure 44—Components of Blackout Stop and Tail Lamps.



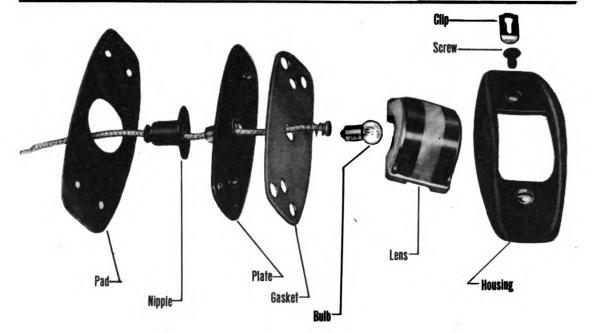


Figure 45—Components of Clearance Lamps.

The socket is held to the trailer frame by a flange bolted to the frame.

- To check socket wiring connections, remove the socket cap from the end of the socket extending into the tool compartment. The cap is fastened to the socket case by a single hex nut.
 - Remove the socket cap.
- 4. Remove the nut holding the terminal cup washer; slip off the cup washer to expose the wire connections for inspection. wire if necessary.
 - To reassemble, reverse the disassembly procedure.

BLACKOUT SWITCH

The blackout switch (figure 9) is located on the front cross member of the main frame. It is operated with a coin or a screwdriver. The switch is either at a service or blackout position; there is no "OFF" position. The flow of current is controlled on the orime mover.

TROUBLE CHART

The following chart will aid in diagnosing lighting troubles:

SYMPTOM	PROBABLE CAUSE		PROBABLE REMEDY		
Failure to light	(a)	Burned out bulb.	(a)	Replace.	
when other lamps light.	(b)	Grounded or broken circuit.	(b)	Check connections back to switch.	
	(c)	Stop light switch impaired.	(c)	Check; replace if necessary.	
	(d)	Bulb loose or improperly mounted.	(d)	Make sure lamp terminals engage socket terminals firmly.	
Lights dim.	(a)	Bulb loose or in- correctly mounted.	(a)	Push bulb fully into socket.	
	(b)	Dirty lens.	(b)	Wipe clean.	
	(c)	Poor connection at socket or a ground leak.	(c)	Check socket, circuit and in- sulation; repair or replace.	
Lights flicker.	(a)	Loose wire connection or intermittent ground.		Check wires and insulation; repair or replace.	

SECTION 7

TRAILER FRAME

The rugged design of the frame of this trailer makes repairs infrequent, baring collision or major accident which may result in bent or twisted crossmembers.

BENT FRAME MEMBERS

- l. A heavy I-beam, jacks and chains may be used to straighten a bent frame member, providing the distortion is not too severe. The bent frame member may be heated to a dull red to facilitate shaping, but care should be taken to prevent excessive heating that would weaken the structural characteristics of the frame member.
- 2. Severely bent and twisted frame members should be cut out and replaced.
- 3. When replacing a bent section of a frame member, cut across the outside of the damaged section at a 30-degree angle, insert the section to be spliced in, and weld. The 30-degree angle will provide a mend over a greater area and result in a stronger weld.
- a. Back up the spliced joints with plate or channel reinforcements extending about six inches on each side of the joint on the inner side of the channel.
- b. Place a one-inch diameter hole in every four square inches of the splice plate or channel, and plug weld at these points.

NOTE: The plug welding hole should be welded solid with bare welding rod, and coated rod should be used for the remainder of the welding.

SPRINGS

Removal

1. Springs may be removed with the dolly connected or disconnected from the main unit frame.



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- a. If the dolly is left connected, lower the screw jacks at both sides of the main unit frame and raise the trailer until tires of the wheels on the side to be serviced just clear the ground and the weight on the other side is almost entirely off the wheels. Block the dolly to avoid accident in the event of jack failure, and to prevent the dolly from swinging on the king pin.
- b. If the dolly is disconnected, jack it up so that the tires of the wheels on the side to be serviced just clear the ground. Securely block the dolly.
 - 2. Remove the tire and wheels as assemblies. (See page 46.)
- 3. Place blocking under the axle at the end being serviced to prevent the axle from dropping when spring U-bolts are removed.
- 4. Remove the hex lock nuts and regular nuts from the U-bolts binding the springs to be removed, releasing the spring tie plate just under the axle.

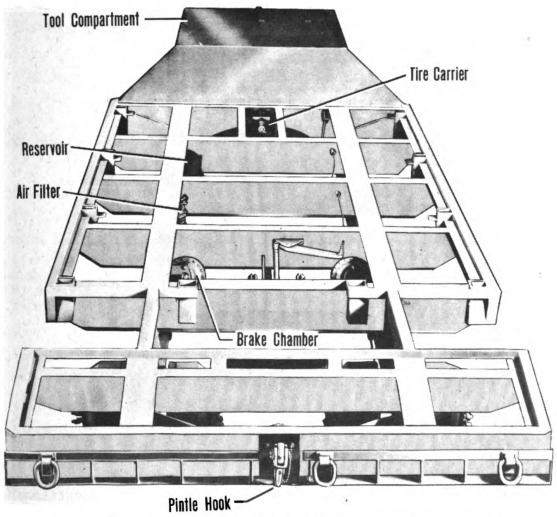


Figure 46-Looking Down on Full Bed of Trailer, with Platform Removed.



- 5. Drive the U-bolts upward and remove them from the dolly.
- 6. Lift the U-bolt pad from the helper spring.
- 7. Lift the helper spring from the spring hangers.
- 8. Remove the spacer plate located between the helper and the main spring.
- 9. Remove the square-head bolt attaching the pipe spacer in the rear spring hanger.
 - 10. Lift the main spring from the dolly.

Replacement

- 1. To reassemble the axle to the dolly frame after installing a new spring, reverse the disassembly procedure but do not reinstall the wheels and tires.
- 2. Check front axle alignment, following the procedure outlined on page 38.
 - 3. Reinstall wheels and tires as assemblies. (See page 48.)

SPRING HANGERS

Removal

- 1. Spring hangers may be replaced with the dolly connected or disconnected from the main unit frame.
- 2. Remove the springs, following the procedure outlined under "Springs Removal" on page 78.
- 3. If the front hanger is being replaced, disconnect the reddius rod at its swivel. (See figure 15.) Disconnect the drawbar, and use a torch to remove the safety chain.
- 4. Cut the damaged hanger, front or rear, from the dolly frame, using a torch. Cut all weld from the frame.

Replacement

- 1. Place a new hanger in place and weld into position.
- 2. To reassemble springs and the axle to the dolly, reverse disassembly procedure, but do not reinstall the wheels and tires.
- 3. Check front axle alignment, following the procedure outlined on page



(See page 48.) Reinstall wheels and tires as assemblies.

RADIUS RODS

- 1. The adjustable radius rods seldom need replacement except following accident, although the rubber bushings at the swivel in the spring hanger and the bronze bushing at the axle end may need replacement.
- To remove the radius rod, remove the cotter pin and castellated nut from the bolt holding the swivel to the soring hanger; drive out the attaching bolt and remove the rubber bushings to release the swivel. (See figure 15.)
- 3. Disconnect the radius rod from the spring seat by removing the cotter pin and the castellated nut from its attaching bolt; drive out the bolt.
- 4. To remove the bronze bushing from the axle end of the radium rod, press it out with an arbor press or drive it out with a steel bar. New bushings should be pressed into position on an ar-Try the attaching bolt in the bushing; ream the bushing bor press. to size if necessary.
 - 5. To reassemble, reverse the disassembly procedure.

DRAWBAR

- 1. Drawbar hinge bushings must be replaced whenever play in the drawbar is sufficient to position the front axle at variance from a right-angle to the trailer's line of draft.
- To remove the drawbar, remove the cotter pin from the Pull drawbar attaching bolts, and turn off the castellated nuts. out the attaching bolts, releasing the drawbar.
- To remove a bushing, drive it out with a 1-1/2" or 1-7/16" diameter steel bar, or press it out on an arbor press.
- Use an arbor press to put the new bushing in position, taking care not to burr or mushroom its end.
- It should be a Try the attaching bolt in the bushing. light driving fit. If the bolt will not go in, ream the bushing to 1-1/4" diameter.

KING PIN

1. To replace a king pin, use a cutting torch to remove the gusset plate from the top of the king pin, and the king pin itself.



CAUTION: Take care not to damage the fifth wheel plate on the main unit when cutting out the king pin.

- 2. Grind all old weld metal smooth and place a new king pin and gusset plates in position.
- \cdot 3. Use a 3/16" coated welding rod to weld the king pin in place when making the first pass, and a 1/4" coated rod for the second pass.

PINTLE HOOK

Disassembly

- 1. Remove the cotter pin at the end of the hook shaft under the trailer platform and turn off the castellated nut. (See figure 47.)
- 2. Pull out the hook at the rear of the trailer, releasing a plain washer, two sleeves and a spring.
- 3. To remove the latch, loosen the screw locking the latch pin that holds the latch to the pintle hook lock member. Drive out the pin, freeing the latch.

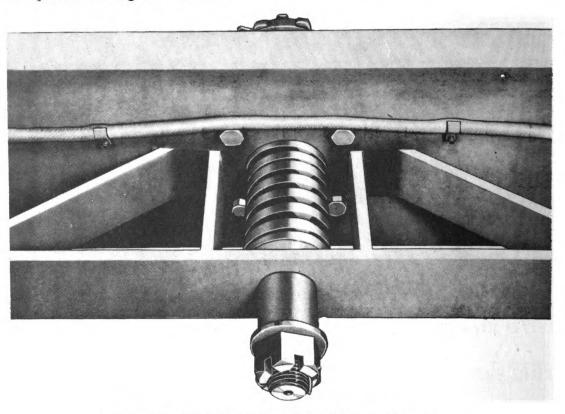


Figure 47—Pintle Hook, Rear View, Platform Removed



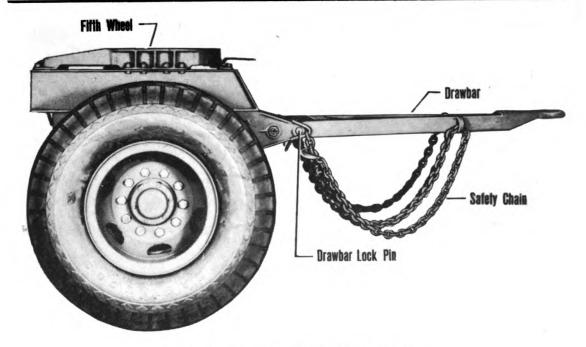


Figure 48-Front Dolly with Fifth wheel

4. To remove the lock from the hook, remove the cotter pin from the hex-head bolt attaching the lock to the hook; turn off the slotted hex nut and drive out the bolt to free the lock.

Reassembly

To reassemble, reverse the disassembly procedure.

FIFTH WHEEL

Disassembly

- 1. Remove the fifth wheel from the dolly frame by loosening and removing the hex nuts from the 14 mounting bolts; lift the fifth wheel from the dolly frame. (See figure 48.)
- 2. Remove the hex-head bolt attaching the lever to the fifth wheel main plate, releasing the sliding lock and its spring.
- 3. Remove the cotter pin from the pin attaching the hinged lock; slip out the pin, releasing the hinged lock and the plunger lock with its spring.

Reassembly

To reassemble and mount the fifth wheel, reverse disassembly procedure.

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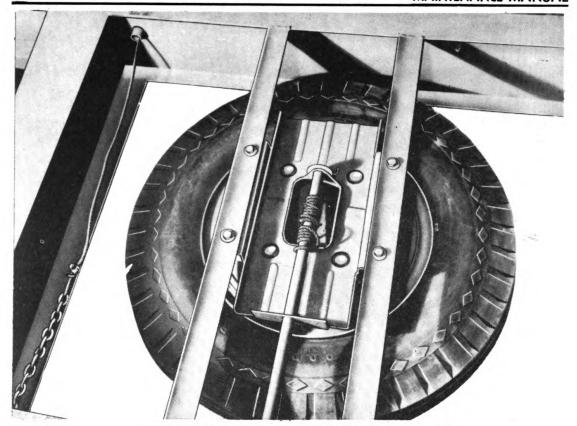


Figure 49-Tire Carrier, with Platform Removed.

TIRE CARRIER

The tire carrier (figure 49) is bolted to the trailer frame with its operating shaft protruding through the first main frame cross member.

Removal

- 1. Remove the tire from the carrier, leaving the cable hang free.
- 2. Remove the cotter pin and plain washer from the end of the tire carrier shaft.
- 3. Remove the cable from the shaft, and slip the shaft from the carrier main member and through the trailer frame.
- Remove nuts and lock washers from the four bolts holding the main member to the frame, releasing the main member.

Replacement

To replace a tire corrier, reverse the disassembly procedure. Original from Digitized by Google

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CONTROL BRAKE

Slack adjusters of the trailer rear wheel brakes are actuated by brake chambers mounted on the trailer frame. The chambers actuate cross shafts to which the slack adjusters are connected by rods. The cross shafts are also actuated by turning the parking brake handwheel through cable, chain and rod linkage. An equalizer bar is provided to give even brake application through the leftand right-hand cross shafts. (See figures 7, 50 and 51.)

Linkage between all connecting parts of the brake control system is by means of clevis pins or wire clips. Parts may be removed for replacement readily in the event of accident or excessive wear.

Removal

- To remove a cross shaft assembly, disconnect the clevis pins attaching links from the equalizer bar, the slack adjuster rods and the brake chambers.
 - Loosen nuts from bolts holding the cross shaft inner and

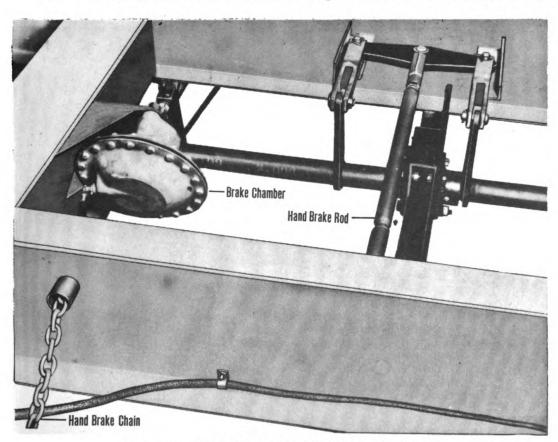


Figure 50—Brake Control, with Platform Removed.



outer bearing brackets, permitting the cross shaft to dron from the trailer frame.

Replacement

To replace a cross shaft assembly, reverse disassembly procedure.

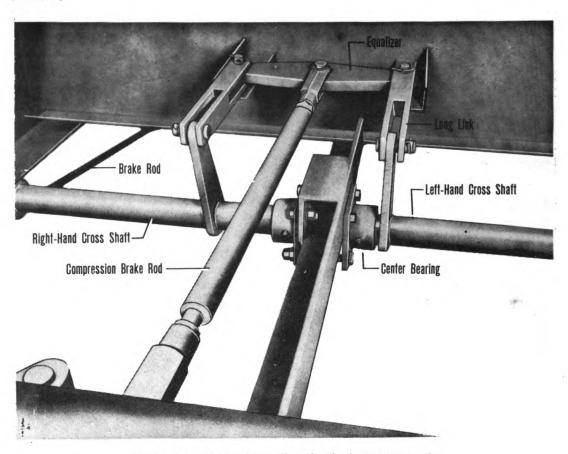


Figure 51—Brake Control with Platform Removed

PARTS CATALOG

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PARTS CATALOG

This Parts Catalog is divided into three sections: a Pictorial Assembly List of purchaseable items with the government part number, part name and quantity required for each assembly shown on the illustration; an Assembly Parts List giving the items included in each purchaseable assembly; and a Numerical Parts List giving for each purchaseable item the government part number, name, the manufacturer and manufacturer's part number, the quantity used on the trailer, the page on which the part is pictured, the unit weight and the unit price.

Directly preceding the Pictorial Assembly List is information on preparation of requisitions for trailer parts.

WARNING

SPARE PARTS can be supplied promptly and accurately only if positively identified by correct part number and correct part name.

FURNISH THIS INFORMATION ON ALL REQUISITIONS. WITHOUT FAIL, on all requisitions, give name of machine, name of manufacturer, model or size, manufacturer's serial number of each machine and subassemblies attached to machine, and components and accessories for which spare parts are required.

List spare parts for only one make or kind of machine on each requisition. Requisitions must be double spaced to provide room for office notations when necessary.



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PREPARATION OF REQUISITIONS

Sample Copy for Use in the Preparation of Requisitions

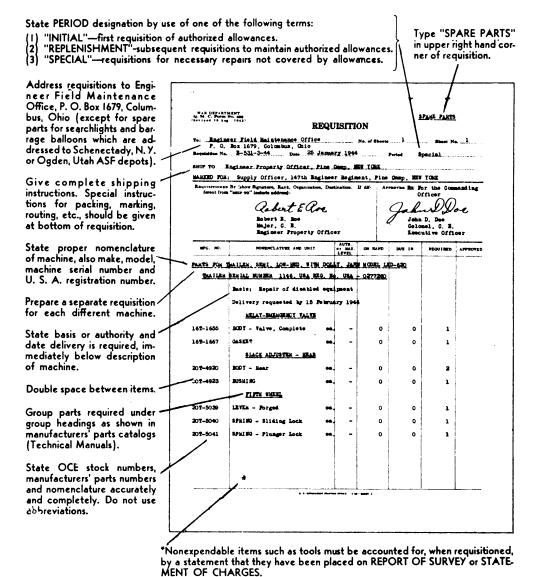
On this page is shown a sample spare parts requisition on QMC Form No. 400 which conforms to the latest revisions. The marginal notes give instructions for preparing a requisition for spare parts for Engineer equipment.

The revised QMC Form 400 has new column headings. Until new forms are available use the present form and type or write in corrections in column headings as shown below.

Under revised heading "Nomenclature" and "Unit" list the article and the unit (ea for each; lb for pound; etc.). Under heading "Maximum or Authorized Level" list the authorized organizational allowances or depot stock levels given in ENG 7 and ENG 8 of the ASF

Engineer Supply Catalog (superseding Part III, Corps of Engineers Supply Catalog). The total number on hand for each item is listed under "On Hand". In column headed "Due In" enter the total quantity previously requisitioned but not delivered. Column headed "Required" is to be changed to read "Quantity Desired" and column headed "Approved" is to read "Remarks." For "Initial" and "Replenishment" requisitions, the sum of "Quantity Desired", "Due In", and "On Hand" should equal "Maximum or Authorized Level."

(Additional details on this subject are covered in ENG I of the ASF Engineer Supply Catalog which incorporates information formerly contained in Section AA-I, Part III, Engineer Supply Catalog.)



Emergency requisitions sent by telephone, teletype, cablegram, telegraph or radio must be confirmed immediately with requisition marked: "Confirming (state identifying data)."



PREPARATION OF REQUISITIONS

A sample requisition in the correct form for submission by the Engineer Property Officer is shown on the opposite page.

THIS SHALL BE FOLLOWED IN MAKING OUT REQUISITIONS

In order to eliminate duplication of work, Property Officers may authorize organizations to prepare requisitions in final form, leaving requisition number space blank for completion by Property Officer.

THE FOLLOWING RULES WILL BE OBSERVED CAREFULLY IN PREPARING REQUISITIONS FOR SPARE PARTS:

- a. Prepare a separate requisition for each different machine.
- Type "SPARE PARTS" in upper right hand corner of requisition form.
- c. State PERIOD designation by use of one of the following terms:
 - (1) "INITIAL"—first requisition of authorized allowances.
 - (2) "REPLENISHMENT"—subsequent requisitions to maintain authorized allowances.
 - (3) "SPECIAL".—requisitions for necessary repairs not covered by allowances.
- d. Give complete shipping instructions.
- e. State proper nomenclature of machine, and make, model, serial number and registration number.
- f. State basis of authority, and date delivery is required, immediately below description of machine.
- g. Group parts required under group headings as shown in manufacturer's parts catalogs.
- h. State manufacturers' parts numbers and nomenclature descriptions accurately and completely. Do not use abbreviations.
- i. Double space between items.
- j. Emergency requisitions sent by telephone, telegraph, or radio must always be confirmed immediately with requisition marked: "Confirming (state identifying data)."
- k. Nonexpendable items must be accounted for.



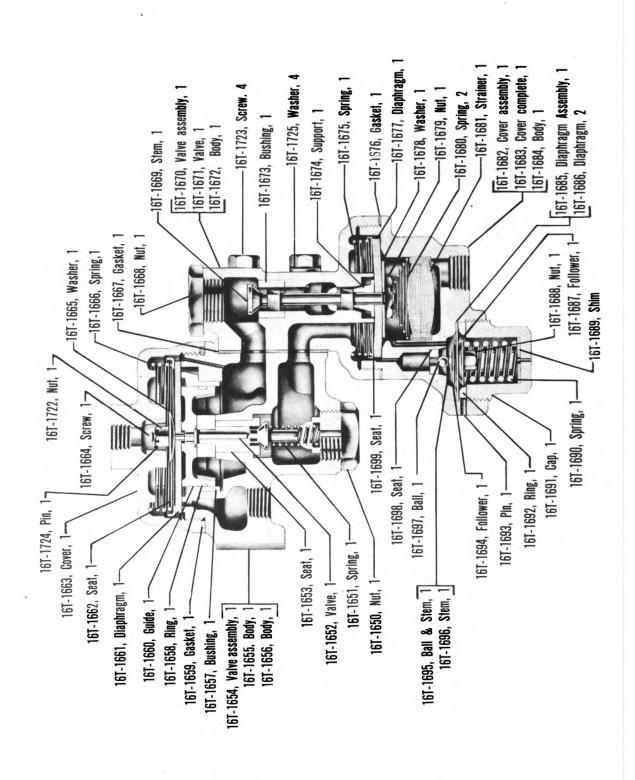


Figure 52—Relay Emergency Valve. 16T-1649

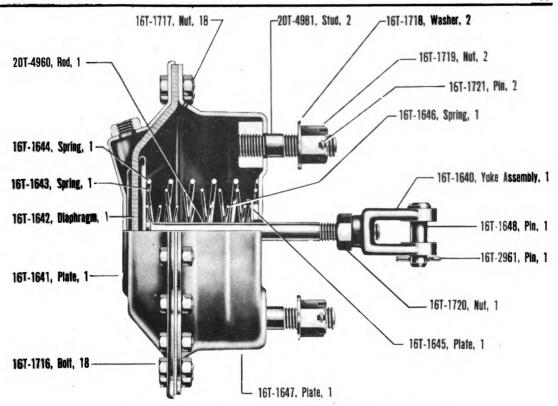


Figure 53-Front Axle Brake Chamber, Type B 20T-4940

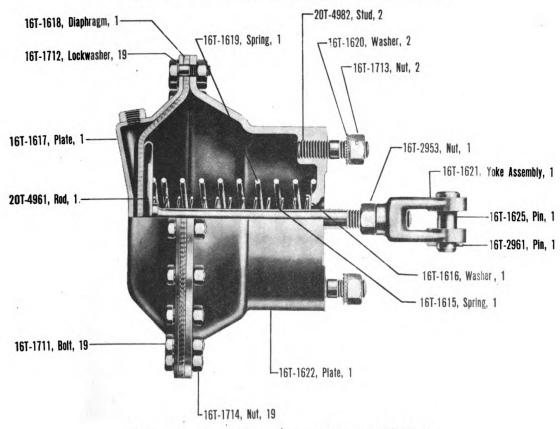


Figure 54—Rear Brake Chamber Type F 20T-4941

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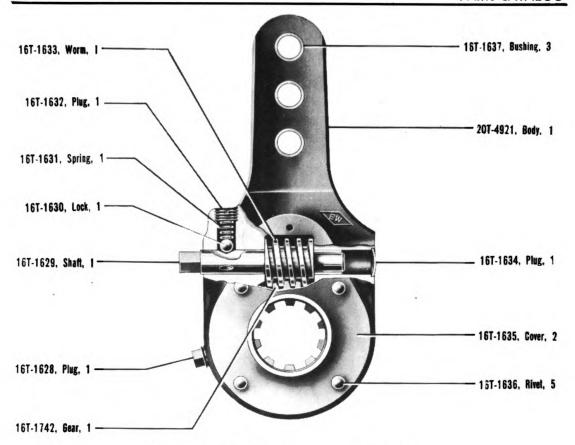


Figure 55-Front Slack Adjuster 20T-4900

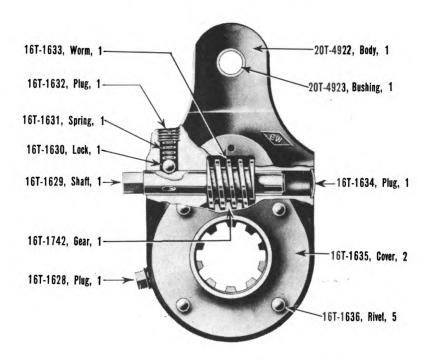


Figure 56—Rear Slack Adjuster 20T-4901

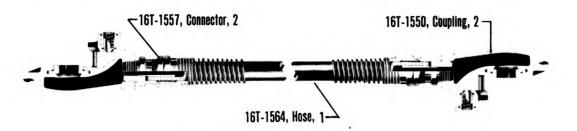


Figure 57—Hose Assembly 16T-1549

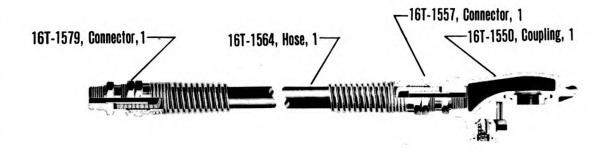


Figure 58-Hose Assembly 20T-5066

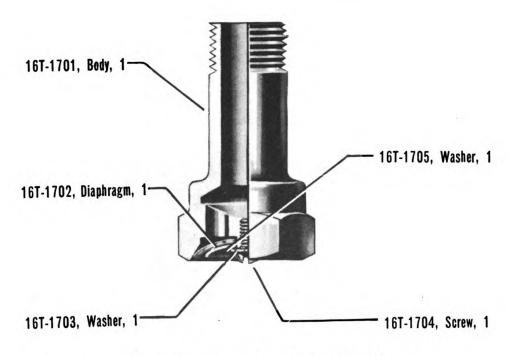


Figure 59-Exhaust Check Valve 16T-1700

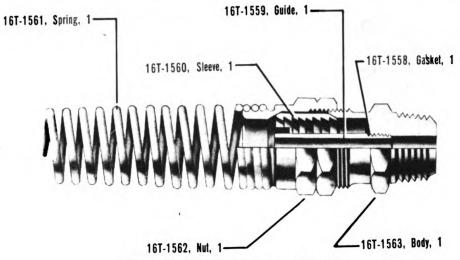


Figure 60-Hose Connector 16T-1557

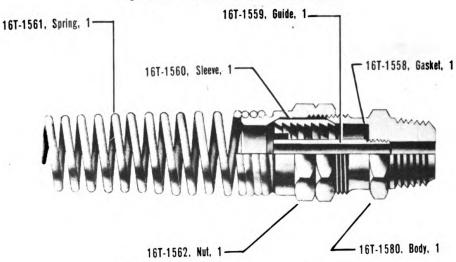


Figure 61—Hose Connector 16T-1579

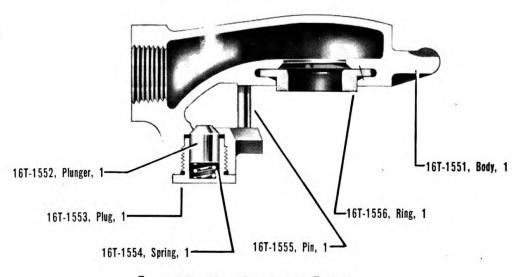


Figure 62—Hose Coupling 16T-1550

Original from UNIVERSITY OF CALIFORNIA

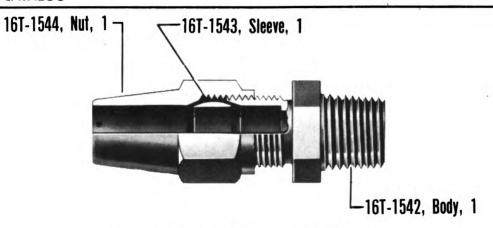


Figure 63—Tubing Connector 16T-1541

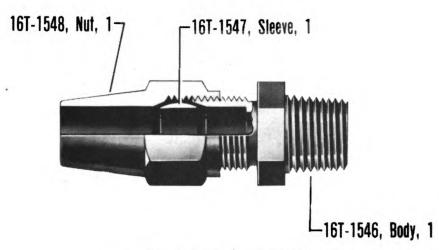


Figure 64-Tubing Connector 16T-1545

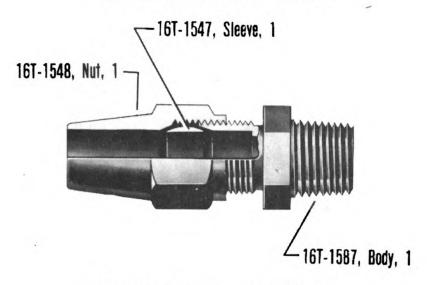


Figure 65-Tubing Connector 16T-1586

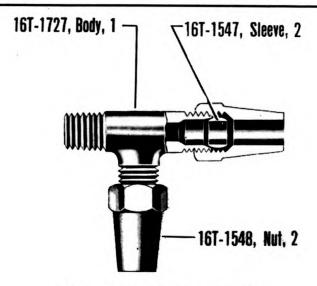


Figure 66—Tubing Tee 16T-1726

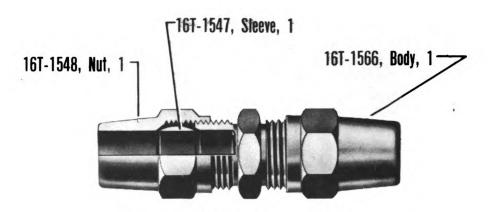


Figure 67—Tubing Union 16T-1565

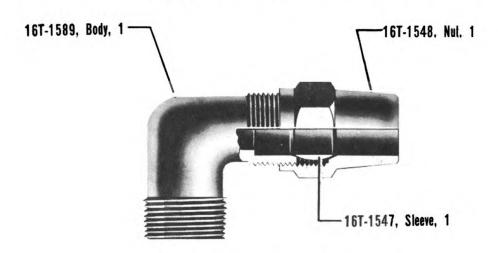


Figure 68—Tubing Elbow 16T-1588

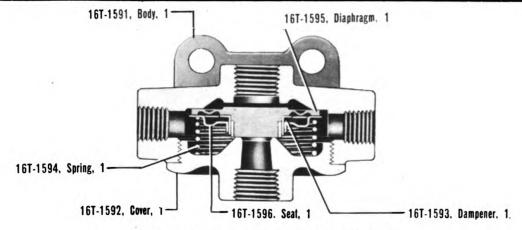


Figure 69—Quick Release Valve 16T-1590

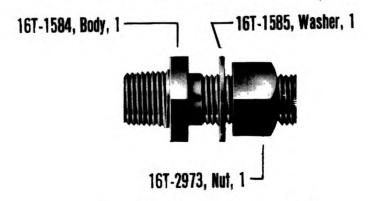


Figure 70—Clamping Stud 16T-1583

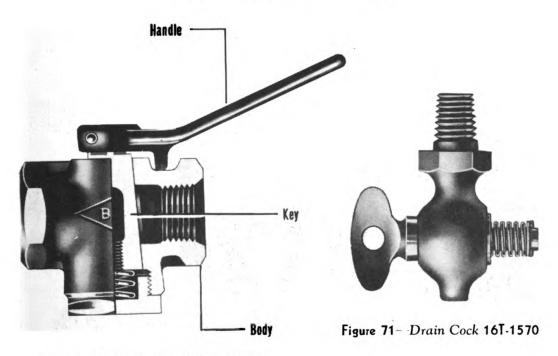


Figure 72—Cutout Cock 201-5067

Original from UNIVERSITY OF CALIFORNIA

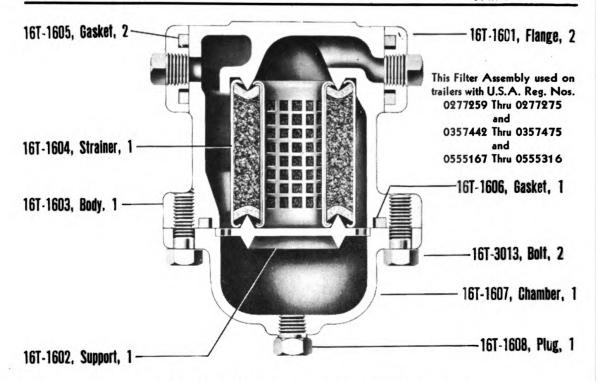


Figure 73-Filter Assembly Type E 16T-1600

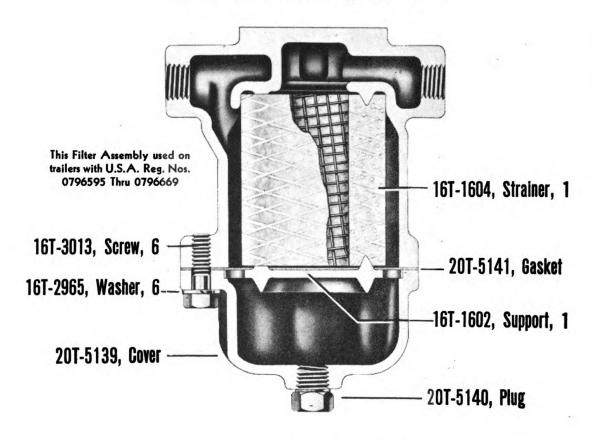


Figure 74—Filter Assembly Type E 20T-5138

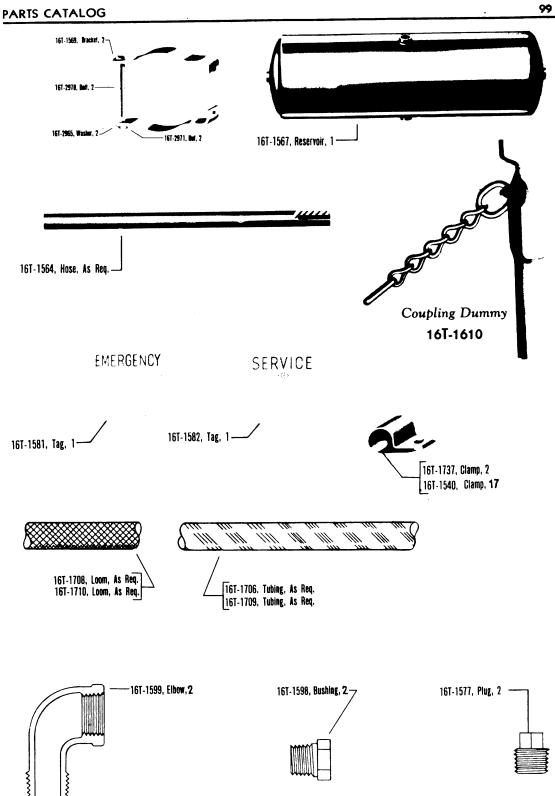


Figure 75—Miscellancous Air Brake System Parts





Figure 76—Cable and Plug Assembly 20T-4610

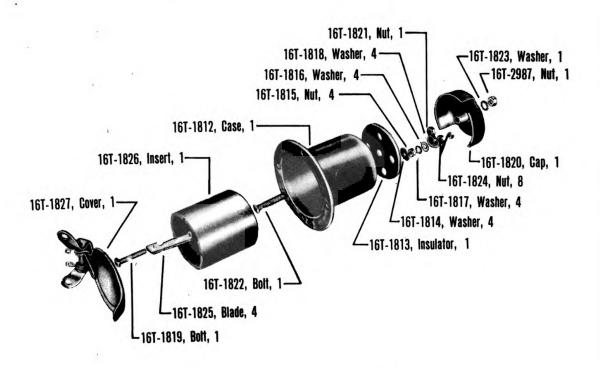


Figure 77—Coupling Socket Assembly 16T-1811

Original from UNIVERSITY OF CALIFORNIA

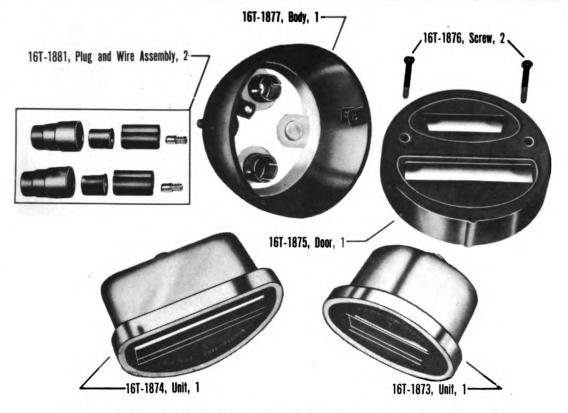


Figure 78—Blackout Stop and Blackout Tail Lamp Assembly 16T-1856

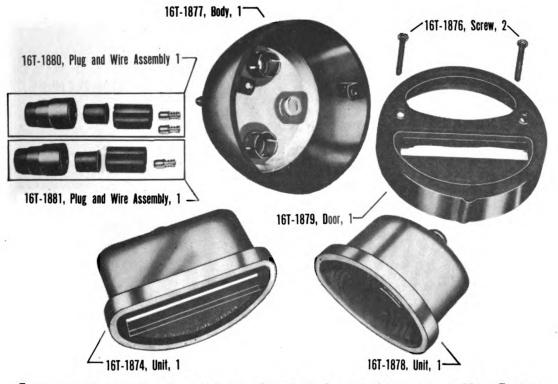


Figure 79—Combination Service Stop and Tail-Blackout Tail Lamp-Assembly 16T-1857

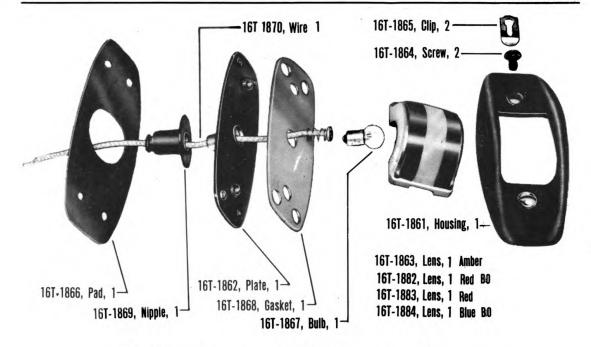


Figure 80—Clearance and Blackout Lamp Assemblies.

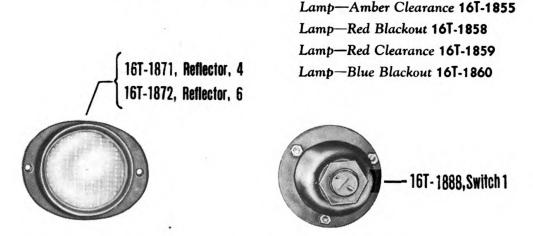


Figure 81-Reflector 16T-1871 and 16T-1872 and Blackout Switch 16T-1888

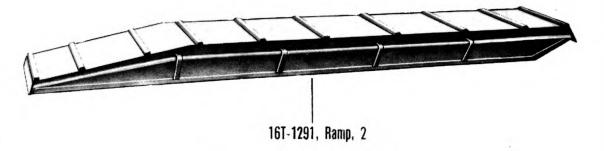


Figure 82—Loading Ramp 16T-1291



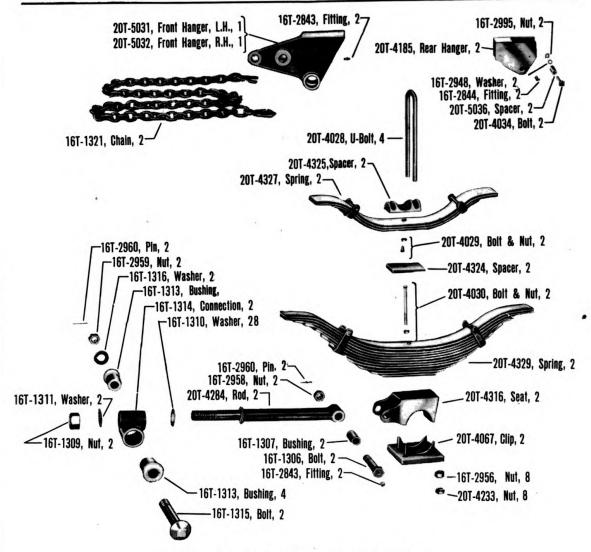


Figure 83—Dolly Underconstruction Parts



Figure 84-King Pin, Lashing Ring and Clamp

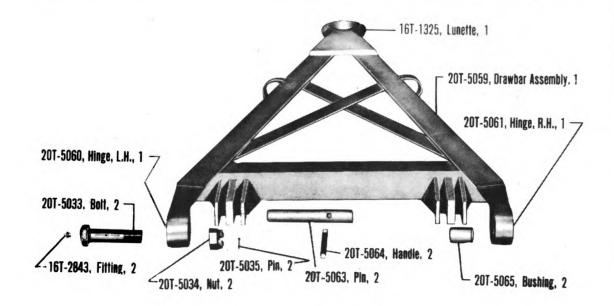


Figure 95—Draw Bar Parts

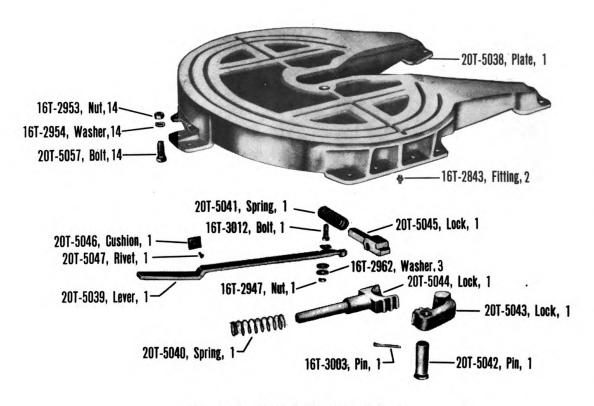


Figure 86 - Dolly Fifth Wheel Parts

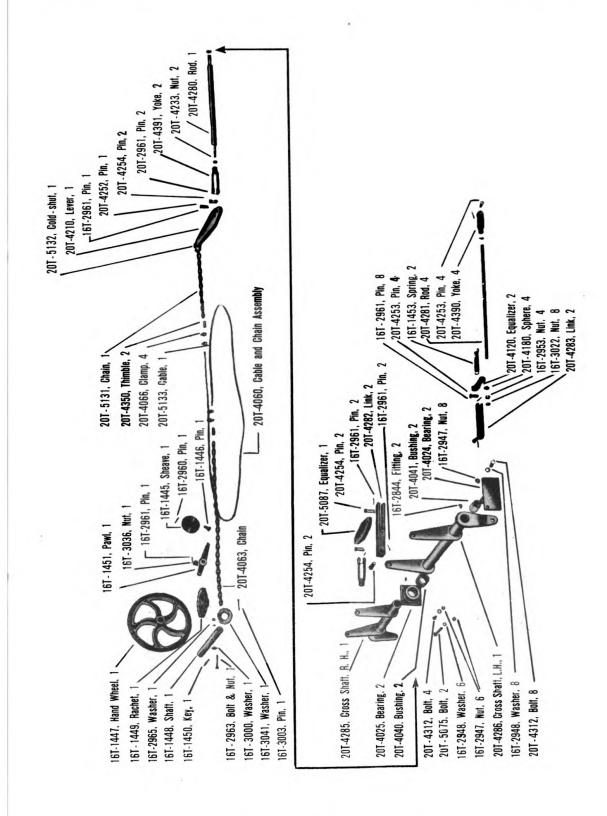


Figure 87—Parking Brake Control Parts

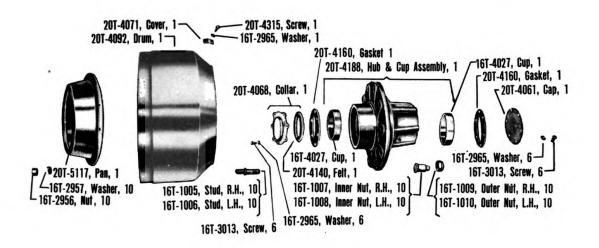


Figure 88-Front Hub and Drum Assembly

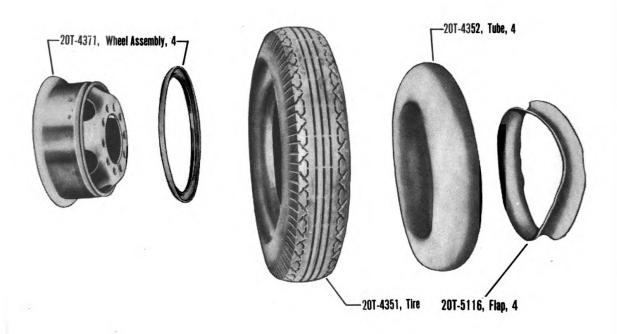


Figure 89-Front Wheel Tire and Tube

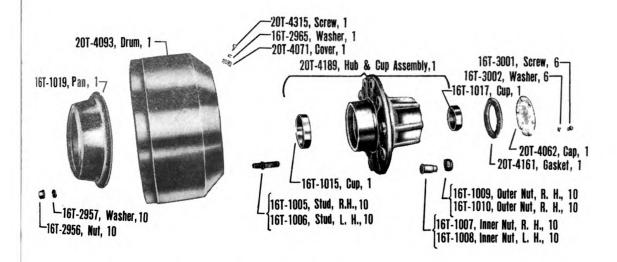


Figure 90-Rear Hub and Drum Assembly

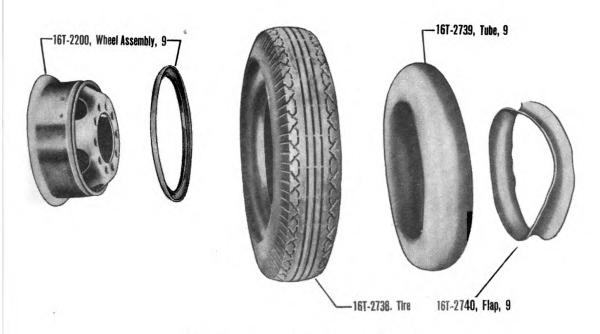


Figure 91—Rear Wheel Tire and Tube

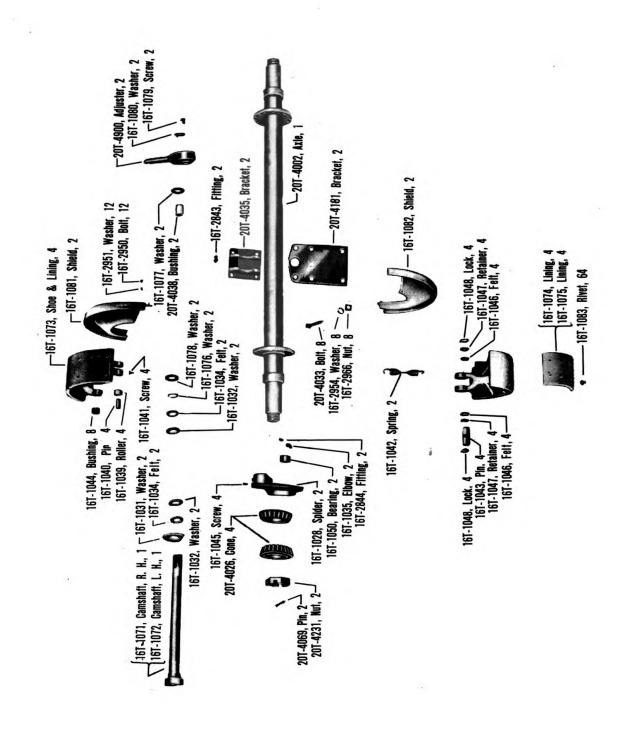


Figure 92—Front Axle and Brake Parts

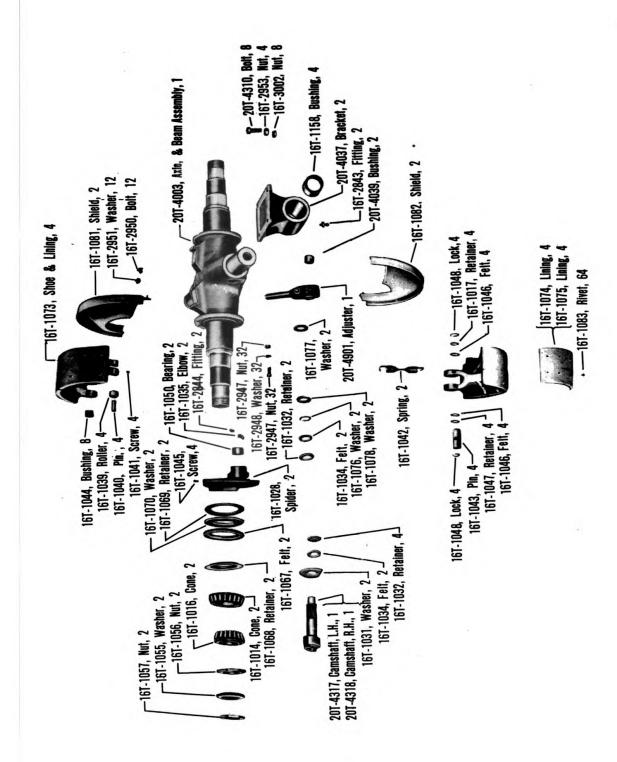


Figure 93—Trunnion Rear Axle and Brake Parts

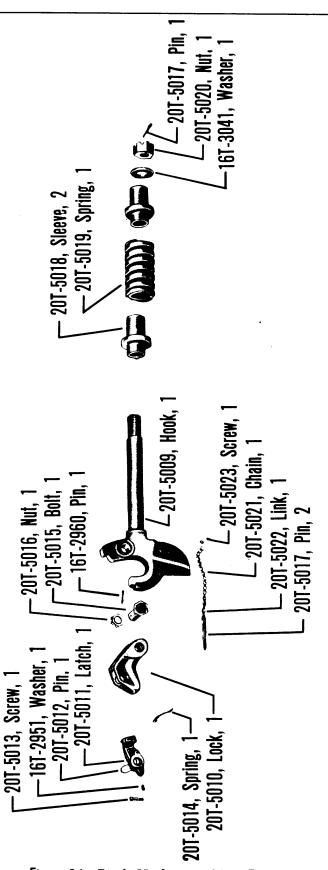
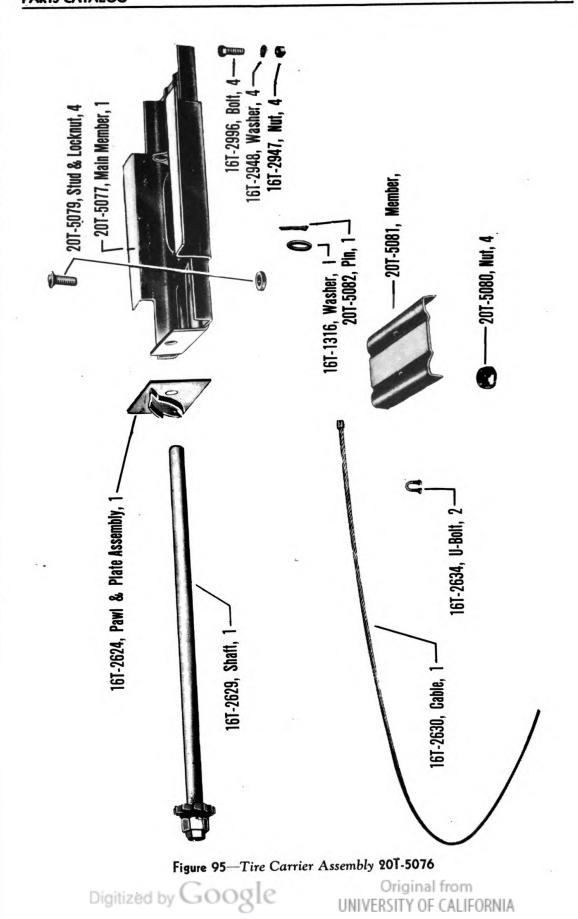


Figure 94—Pintle Hook Assembly 20T-5008



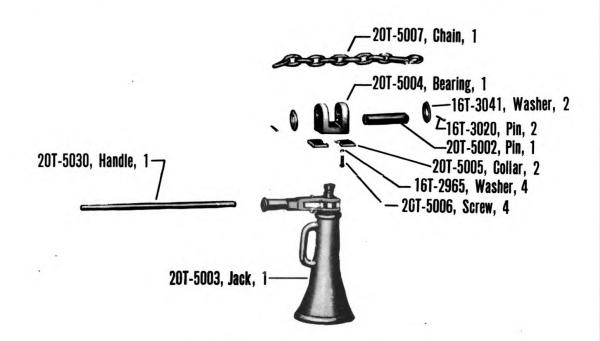


Figure 96—Screw Jack Assembly

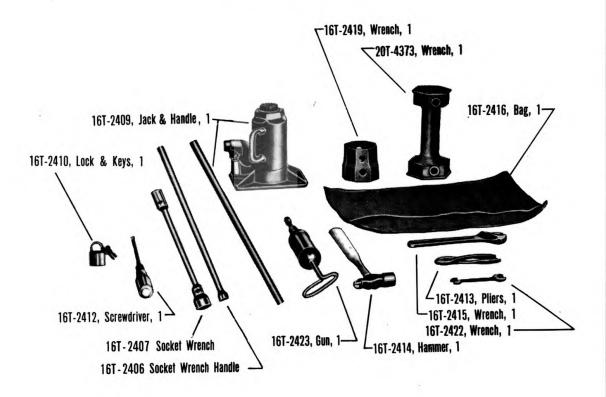


Figure 97—Tools

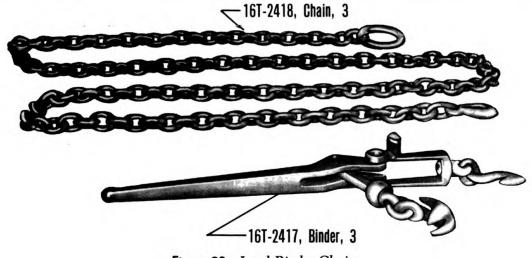


Figure 98 -Load Binder Chain

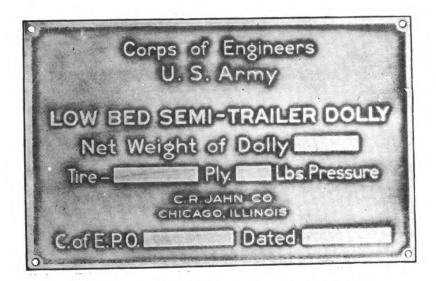


Figure 99—Front Dolly Name Plate 20T-5058

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ASSEMBLY PARTS LIST

Components of assemblies and sub-assemblies are given in this list, which supplements the complete or Numerical Parts List that begins on page 122. A complete description of parts carried in the Assembly Parts List is given in the Numerical Parts List. Figure references given in the Assembly Parts List pertain to the illustrations for the various assemblies.

16T-1028, Spider & Needle Bearing Assembly (See figures 92 & 93)	2
Includes:	_
16T-1050, Bearing - Spider needle	1
16T-1049, Shield Assembly - Dust (See figures 92 & 93)	2
Consists of:	
16T-1081, Shield - Upper dust	1
16T-1082, Shield - Lower dust	1
16T-1073, Shoe & Lining Assembly - Front Brake	
(See figures 92 & 93)	4
Includes:	
16T-1074, Lining - Brake shoe, drilled cam end	1
16T-1075, Lining - Brake shoe, drilled anchor end	1
16T-1083, Rivet - Brake shoe lining	16
16T-1039, Roller - Brake shoe cam	1
16T-1040, Shaft - Brake shoe cam roller	
16T-1041, Screw - Brake shoe cam roller shaft	1 2
16T-1044, Bushing - Anchor pin	2
16T-1541, Connector Assembly - Tubing (See figure 63)	1
Consists of:	
16T-1542, Body	1
16T-1543, Sleeve	1
16T-1544. Nut	ī
16T-1545, Connector Assembly - Tubing (See figure 64)	ī
Consists of:	
16T-1546, Body	1
16T-1547, Sleeve	ī
16T-1548, Mut	ī
16T-1549, Hose Assembly (See figure 57)	2
Consists of:	_
16T-1550, Coupling - Hose	2
16T-1557, Connector - Hose	2
16T-1564, Hose	ĩ
16T-1550, Coupling Assembly - Hose (See figure 62)	6
Consists of:	•
16T-1551, Body	1
16T-1552, Plunger	ī
16T-1553, Plug - Spring	ī
16T-1554, Spring	ì
16T-1555, Pin	ī
16T-1556, Ring - Packing	i
ave avvvj mine - soverne	

PARTS CATALOG	115
16T-1557, Connector Assembly - Hose (See figure 60)	6
Consists of:	
16T-1558, Gasket	1
16T-1559, Guide	1
16T-1560, Sleeve	1
16T-1561, Spring	1
16T-1562, Nut	1
16T-1563, Body	1
16T-1565, Union - Tubing (See figure 67)	2
Consists of:	
16T-1566, Body	1
16T-1547, Sleeve	1
16T-1548, But	1
16T-1568, Bracket - Reservoir (See figure 75)	2
Consists of:	_
16T-1569, Bracket	2
16T-2970, Bolt - Square hd, 3/8 x 6" USS	1
16T-2971, Nut - Hex, 3/8 USS	1
16T-2965, Washer - Lock, 3/8 SAE	2
16T-1579, Connector Assembly - Hose (See figure 61)	6
Consists of:	
16T-1558, Gasket	1
16T-1559, Guide	1
16T-1560, Sleeve	1
16T-1561, Spring	1
16T-1562, Nut	1
16T-1580, Body	1
16T-1583, Stud - Clamping (See figure 70)	2
Consists of:	,
16T-1584, Body	1
16T-1585, Washer	1
16T-2973, Nut	1
16T-1586, Connector Assembly - Tubing (See figure 65)	6
Consists of:	,
167-1587, Body	1
16T-1547, Sleeve 16T-1548, Nut	1
16T-1588, Elbow - Tubing (See figure 68)	5
Consists of:	3
16T-1589, Body	1
16T-1547, Sleeve	î
16T-1548, Mut	ī
16T-1590, Valve Assembly - Quick Release (See figure 69)	ī
Consists of:	•
16T-1591, Body	1
16T-1592, Cover	ī
16T-1593, Dampener	ī
16T-1594, Spring	ī
16T-1595, Diaphragm	ī
16T-1596, Seat - Spring	1
16T-1600, Filter Assembly - Type E (See figure 73)	2
Consists of:	
16T-1601, Flange	2
•	

116	PARTS CATALOG
16T-1602, Support - Strainer	1
16T-1603, Body	1
16T-1604, Strainer	1
16T-1605, Gasket - Flange	2
16T-1606, Gasket - Body	1
16T-1607, Chamber - Dirt	1
16T-1608, Plug - Pipe	1
16T-3013, Bolt - Hex head	2
16T-1610, Coupling Assembly - Dummy (See figure 75)	2
Consists of:	
16 T- 1611, Body	1
16T-1612, Chain	1
161-1649, Valve Assembly - Relay Emergency (See figure	52) 1
Consists of:	
16T-1654, Valve Assembly - Relay	1
Consists of:	
16T-1650, Nut - Cap	1
16T-1641, Spring	1
16T-1652, Valve - Supply	1
16T-1655, Body - Valve, Complete	1
Consists of:	
16T-1653, Seat - Valve	1
16T-1656, Body	1
16T-1657, Bushing - Guide	1
16T-1658, Guide - Ring	1
16T-1659, Gasket - Cover	1
16T-1660, Guide - Diaphragm	1
16T-1661, Diaphragm	1
161-1662, Seat - Spring	1
16T-1663, Cover - Top	1
16T-1724, Pin - Cotter	1
16T-1664, Screw - Diaphragm	1
16T-1722, Nut - Hex	1
16T-1665, Washer - Diaphragm	1
16T-1666, Spring	1
16T-1667, Gasket	1
16T-1670, Valve Assembly - Emergency	1
Consists of:	
16T-1668, Nut - Cap	1
16T-1669, Stem - Valve	1
16T-1671, Valve - Emergency	1
Consists of:	_
16T-1672, Body - Emergency	1
16T-1673, Bushing - Valve	1
16T-1674, Support - Diaphragm	1
16T-1675, Spring - Emergency	1
16T-1676, Gasket - Bottom cover	1
16T-1677, Diaphragm - Emergency	1
16T-1678, Washer	1
16T-1679, Hut - Lock	1
16T-1680, Spring	1
16T-1681, Strainer - Air	1
16T-1682, Cover Assembly	1
0'' 16	

PARTS CATALOG	117
Consists of:	
167-1683, Cover - Complete	1
Consists of:	
16T-1684, Body - Cover	1
16T-1693, Pin	1
16T-1698, Seat	1
16T-1685, Diaphragm Assembly	1
Consists of:	
16T-1686, Diaphragm	2
16T-1687, Follower - Lower	1
16T-1688, Nat - Lock	1
16T-1694, Follower - Upper	1
16T-1695, Ball & Stem Assembly	1
Consists of:	
16T-1696, Stem	1
16T-1697, Ball	1
16 1- 1689, Shim	As req.
16T-1690, Spring	1
161-1691, Cap	1
16T-1692, Ring	1
16T-1699, Seat - Spring	1
16T-1723, Screw - Cap	4
161-1725, Washer - Lock	4
6T-1700, Valve Assembly - Exhaust Check (See figure 59)	1
Consists of:	_
16T-1701, Body	1
16T-1702, Diaphragm	1
16T-1704, Screw - Machine	1
16T-1705, Washer - Diaphragm	1
16T-1703, Washer	1
6T-1726, Tee - Tubing, 1/8 x 3/8 x 1/4 (See figure 66)	1
Consists of:	
16 T-1727 , Body	1
16T-1547, Sleeve	2
16T-1548, Nat	2
6T-1811, Socket Assembly - Coupling (See figure 77)	1
Consists of:	•
16T-1812, Case - Socket	1
16T-1813, Insulator	1
16T-1814, Washer - Socket terminal bolt	4
16T-1815, Nut - Terminal bolt, brass, #10-32 SAE	4
16T-1816, Washer - Plain brass	4
16T-1817, Washer - Shakeproof #10	4
16T-1818, Washer - Terminal cup	4
16T-1819, Bolt - Socket terminal	ī
16T-1820, Cap Assembly - Socket	i
16T-1821, Nut - Hex jam, 1/4" SAR	i
16T-1822, Bolt - Cap	ı
167-1823, Washer - Shakeproof 1/4"	8
16T-1824, Nut - Hex #10 SAE	4
16T-1825, Blade - Contact	1
16T-1826, Insert - Socket Bakelite	î
16T-1827, Cover	•

16T-2987, Nut = $1/4^8$ = 28	1
16T-1855, Lamp Assembly - Amber Clearance (See figure 80)	2
Consists of:	
16T-1866, Pad - Felt	1
16T-1869, Mipple	1
16T-1862, Plate - Back	1
16 T- 1868, Gasket	1
16 1 -1867, Bulb	1
16T-1863, Lens - Amber	1
16T-1861, Housing	1
16T-1865, Clip	1 2 2
16T-1864, Screw - Body	
16 T- 1870, Wire	1
16T-1856, Lamp Assembly - Combination Blackout Stop -	
Blackout Tail (See figure 78)	1
Consists of:	
16T-1881, Plug & Wire Assembly	1
16T-1877, Body	1
16T-1876, Screw	2
161-1875, Door	1
16T-1873, Unit - Blackout stop	1
16T-1874, Unit - Blackout tail	1
16T-1857, Lamp Assembly - Combination Service Stop & Tail -	
Blackout Tail (See figure 79)	1
Consists of:	
16T-1880, Plug & Wire Assembly	1
16T-1877, Body	1
16T-1876, Screw	2
16T-1879, Door	1
16T-1874, Unit - Elackout tail	1
16T-1878, Unit - Blackout stop	1
16T-1858, Lamp Assembly - Red Blackout (See figure 80)	2
Consists of:	
16T-1866, Pad - Felt	1
16T-1869, Nipple	1
16T-1862, Plate - Back	ı
16T-1868, Gasket	1
16T-1867, Balb	1
16T-1882, Lens - Red Filter	ī
16T-1861, Housing	1
16T-1865, Clip	2
16T-1864, Screw - Body	2
16T-1870, Wire	ì
16T-1859, Lamp Assembly - Red Clearance (See figure 80)	1
Consists of:	
16T-1366, Pad - Felt	1
16T-1869, Mipple	ī
16T-1862, Plate - Back	ī
16T-1868, Gasket	ī
16T-1867, Balb	ī
161-1883, Lens - Ruby	ī
16T-1861, Housing	ī
16T-1865, Clip	2
 ; <u>-</u>	

PARTS CATALOG	119
16T-1364, Screw - Body	2
16T-1870, Wire	1
16T-1860, Lamp Assembly - Blue Blackout (See figure 80)	2
Consists of:	_
16T-1866, Rad - Felt	1
16T-1869, Hipple	1
16T-1962, Plate - Back	1
16T-1868, Gasket	1
16T-1867, Bulb	1
16T-1884, Lens - Blue Filter	1
16T-1861, Housing	1
16T-1865, Clip	2
16T-1864, Screw - Body	2
16T-1870, Wire	1
20T-4002, Axle Assembly, Complete Front (See figure 92)	1
Includes:	
20T-4069, Pin, Cotter	2
20T-4231, Nut, Axle	2
20T-4316, Seat, Spring	2
20T-4003, Beam and Bar Assembly Trunnion Axle (See figure 93)	1
Includes:	
20T-4039, Bushing Cam Shaft	2
16T-1055, Washer, Tongue	2
16T-1056, Nut Wheel Bearing Adjusting	2
16T-1057, Mut Axle Jam	2
201-4025, Bearing Assembly, Cross Shaft, Inner (See figure 87)	2
Includes:	
20 T-4040, Bushing, Cross Shaft, Inner Bearing	1
201-4037, Bracket, Trunnion with Bushing (See figure 93)	4
Includes:	
16T-1158, Bushing, Trunnion with Bushing (See figure 93)	2
20T-4060, Cable & Chain Assembly (See figure 87)	1
Consists of:	
20T-5133, Cable	1
20T-4063, Chain	
20T-5131, Chain	1
20 T-4350, Thimble	2
20 T- 5132, Cold Shut	2
201-4066, Cable Clamp	4
20T-4068, Dust Collar (Figure 88)	2
Includes:	_
20 T-4140, Felt, Dust Collar	1
20T-4138, Hub & Cup Assembly, Front (See figure 88)	2
Includes:	_
201-4027, Cup, Bearing	2
20T-4189, Hub & Cup Assembly, Rear (See figure 90)	4
Includes:	-
16T-1015, Cup, Inner Bearing	1
16T-1017, Cup, Outer Bearing	1
20T-4284, Rod, Torque with Bushing (See figure 83)	2
Includes:	
16T-1307, Bushing, Torque Rod	1
20T-4285, R. H. Cross Shaft Assembly (See figure 87)	1
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120 PA	KIS CATALOG
20T-4286, L. H. Cross Shaft Assembly	1
Includes:	
20T-4041, Bushing, Cross Shaft Outer Bearing	1
201-4610, Cable & Plug Assembly (See figure 76)	1
Consists of:	
201-4611, Cable	1
16T-1837, Plug -	2
Consists of:	
16T-1848, Plug Accessory	1
Consists of:	
16T-1847, Nut - Her #6-32	2
16T-1849, Terminal - Wire	4
16T-1850, Insulator - Wire	4
16T-1851, Separator - Wire	1
16T-1852, Clamp - Wire	1
16T-1853, Screw - Wire clamp	1
16T-1854, Washer - #6	1
16T-1838, Terminal Assembly - Plug	1
Consists of:	
16T-1839, Terminal - Plug	1
16T-1840, Clip - Contact	4
16T-1841, Bolt - Contact clip	4
16T-1843, Nut - Contact clip	4
16T-1844, Handle - Plug	1
16T-1845, Screw - Rd. hd. mach. #6-32 x 1-3/4	2 2 2
16T-1846, Washer - Lock #6	2
16T-1847, Nut - Hex #6-32	
20T-4900, Slack Adjuster Assembly, Front Axle (See figure	55) Z
Consists of:	7
20T-4921, Body	1
16T-1628, Plug - Pipe 16T-1629, Shaft - Worm	î
16T-1630, Lock	î
16T-1631, Spring	i
167-1632, Plug - Screw	î
16T-1633, Worm	ī
167-1634, Plug - Welsh	ī
16T-1635, Cover	- 2
16T-1636, Rivet	5
16T-1637, Bushing	3
16T-1742, Goar - Worm	ì
20T-4901, Stack Adjuster assembly, Mear Axle (See figure 5	
Consists of:	- •
20T-4922, Body	1
16T-1628, Plug - Pipe	1
16T-1629, Shaft - Worm	1
16T-1630, Lock	1
16T-1631, Spring	1
16T-1631, Spring 16T-1632, Plug - Screw	
16T-1631, Spring 16T-1632, Plug - Screw 16T-1633, Worm	1
16T-1632, Plug - Screw	1 1 1
16T-1632, Plug - Screw 16T-1633, Worm	1 1 1

PARIS CATALOG	121
16T-1637, Bushing	3
16T-1742, Gear - Worm	1
201-4940, Chamber - Type B Brake, Front Axle (See figure 53)	2
Consists of:	
20T-4961, Rod - Push	1
20T-4981, Stud	2
16T-1641, Plate - Pressure	1
16T-1642, Diaphragm	1
16T-1643, Spring - Inner	1
16T-1644, Spring - Outer	1
16T-1645, Plate - Scraper	. 1
16T-1646, Spring - Scraper	1
16T-1716, Bolt	18
16T-1717, Mut - Knurled	18
16T-1718, Washer	2
16T-1719, Mut - Hex	2
16T-1720, Nut - Hex	1
16T-1721, Pin - Cotter	2
16T-1 647, Plate - Non-pressure	1
16T-1640, Yoke Assembly	1
Includes:	_
16T-1648, Pin - Clevis	1
16T-2961, Pin - Cotter	1
201-4941, Chamber - Type F Brake, Rear Axle (See figure 54)	2
Consists of:	_
20T-4980, Rod - Push	1
20T-4980, Spring - Seal	1
16T-1616, Washer - Seal	1
16T-1617, Plate - Pressure	1
16T-1618, Diaphragm	1
16T-1619, Spring - Proportional	1
16T-1620, Washer - Lock	2
16T-1621, Toke Assembly	1
Includes:	1
16T-1625, Pin - Clevis	i
16T-2961, Pin - Cotter 16T-1622, Plate - Non-pressure	î
16T-2953. Nut - Jam hex	î
20T-4982, Stud	5
16T-1711, Bolt	19
16T-1712, Washer - Lock	19
16T-1714, Nut - Hex	19
161-1713, Nut - Mounting Stud Hex	2
201-5008, Pintle Hook Assembly (See figure 94)	ĩ
Consists of:	•
20T-5009, Hook, Forged	1
20T-5010, Lock, Pintle	ī
20T-5011, Latch, Pintle	ī
201-5012, Pin 7/8 x 2 1/2	ì
20T-5013, Screw, Cap 5/16 -24 x 12	ī
20T-5014, Spring, Latch	1
20T-5015, Bolt 1" x 3 7/8	1
20 T-5016, Nut, Jam 1 SAE	1

PARTS CATALOG

121

20T-5017, Pin, Cotter 1/4 x 3"	2
201-5018, Sleeve	2
20 T-5 019, Spring 2 3/8 I.D. \times 7	1
20T-5020, Nut, Slotted Hex 1\frac{1}{2}-6	1
20T-5021, Chain, 16 Links	1
201-5022, Link "S"	1
201-5023, Screw, Drive #10 x 1/2"	1
20T-5037, Fifth Wheel Assembly (See figure 86)	1
Consists of:	
201-5038, Plate	1
201-5039, Lever	1
201-5040, Spring	
201-5041, Spring	ī
20T-5042, Hinged Lock Pin	1
20T-5043, Hinged Lock	ī
20T-5044, Sliding Lock	ī
20T-5045, Plunger Lock	ī
20T-5046, Rubber Cushion (Lever)	ī
20T-5047, Rivet	ī
16T-2843, Zerk	2
16T-3012, Cap Screw	1
16T-3003, Cotter Pin	1 1 1 1 1 1 2 1 1 3
16T-2962, 1/2" Plain Washer	3
16T-3000, 3/8" Plain Washer	1
16T-2947, 1/2" SAE Nut	i
20T-5059, Drawbar Assembly (See figure 85)	i
Consists of:	•
20T-5065, Bushing Hinge Pin	2
20T-5063, Drawbar Lock Pin	2
20T-5064, Lock Pin Handle	2
20T-5066, Hose Assembly (See figure 58)	ĩ
Consists of:	•
16T-1550, Coupling - Hose	1
· · · · · · · · · · · · · · · · · · ·	1
16T-1579, Connector - Hose	1
16T-1557, Connector - Hose	
16T-1564, Hose	1
20T-5074, Hand Wheel and Shaft Assembly (See figure 87)	1
Consists of:	1
16T-1447, Hand Wheel	1
16T-1448, Shaft	1
16T-1449, Ratchet Wheel	1
16T-1450, Key	1
20T-5076, Carrier Assembly - Tire (See figure 95)	1
Consists of:	•
20T-5077, Frame, Main Member	1
Includes:	•
20T-5079, Bolt, Securing with Locknuts	2
16T-2624, Pawl and Plate	1
16T-2629, Shaft with Ratchet	1
16T-2630, Cable 7'C"	1
20T-5080, Nut Safety	2
20 T- 5081, Pick up	1
16T-2634, "U" Bolt with Nuts	2



PARTS CATALOG	123
16T-1316, Washer, 1" Plain	1
20T-5082, Pin, Cotter	1
20T-5138, Filter Assembly - Type "E" (See figure 74)	2
Consists of:	-
16T-1602, Support, Strainer	1
16T-1604, Strainer	1
	2
20T-5139, Cover	2
20T-5140, Plug	2
20T-5141, Cover, Gasket	
16T-3013, Screw	2
16T_2965 Washer	2

88

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10709

Double Cap Nut - Inner - L.H. (Budd)

(Budd)

16T-1008

504

13988 13989 10708

Stud - Hub & Drum B.H. (Budd) Stud - Hub & Drum L.H. (Budd) Double Cap Nut - Inner - E.H.

16T-1005 16T-1006 16T-1007

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NUMERICAL PARTS LIST

	Manufacturers' Identification Symbols	cation Symbols
BBB	Bunting Brass & Bronze, Toledo, Chio	HIM Holland Hitch Co., Holland, Mich.
BX	Bendix Products Division, South Bend, Ind.	IIB Illinois Iron & Bolt Co., Carpenters-
BWE	Bendix-Westinghouse Automotive Air Brake Co.; Elyria, Chio	KD K D Lamp Co., Cincinnati, Onio
BW	Budd Wheel Company, Detroit, Mich.	NAS L. B. Nash Bros., Chicago, Ill.
ОНО	Cleveland Hardware & Forging Co., Cleveland,	MKP McKissick Prod., Tulsa, Okla.
Ħ	Out. S. Tahn Go. Chicago. Ill	SAC Shuler Axle Co., Louisville, Ky.
1	V. A. Veni VV. 1 With Sec. 111.	TD Thaken-Detroit Axle Co., Detroit, Mich.
DK	H. A. Douglas Mfg. Co., Bronson, Mich.	TIM Timken Roller Bearing Co Canton. Onto
ни	Hein Werner Co., Waukesha, Wis.	
HEH	Herbrand Go. Fremont Oblo	WEB Warner Electric Brake Manufacturing Co., Reloit, Wie
	NOTE: Give trailer serial and model number	ler serial and model numbers when ordering parts. All prices are
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	are given in pounds.	Items marked with a double asterisk (**) are stan-
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rare no.	Part Name	Code	Code Part Number	Quan.	Page	Weight	Price
16T-1009	Double Cap Nut - Outer -	Ma	37891	8	106-107	8.	.16
16T-1010			37892	8	106-107	8	.16
16T-1014		TIP	T-580	4	109	3.00	5.61
16T-1015	Cup - Bearing - Inner	THE	T-572	4	107	2.25	3.39
16T-1016		TIM	T-560	4	109	2.50	4.26
16T-1017	Cup - Bearing - Outer	TIM	T-553-X	4	107	1.70	3.18
16T-1019	Pan - Front Splash	SAC	UB-1120	R	107	1.625	5.00
16T-1028	Spider & Needle Bearing	e	T-A-3211-A-833	9	108-109	11.3	17.26
	Assembly (See page 114 for details of assembly)						
16T-1031		B	T-1229-E-837	9	108-109	52	.13
16T-1032	Cam Shaft Felt Retainer	P	T-1229-J-868	77	108-109	.018	.05
16T-1033	Cam Shaft Washer	e	T-1229-R-122	A/R	108-109	.03	%
16T-1034	Cam Shaft Felt	P	T-5X-433	2	108-109	100	8
16T-1035	Elbow	A	T-X-740	9,	108-109	.062	.15
16T-1039	Roller - Brake Shoe	e	T-1199-A-625	2	108-109	8	88
16T-1040	Pin - Brake Shoe	8	T-1246-8-227	ន	108-109	.25	8
16T-1041	Set Screw - Shoe Pin	P	T-1199-B-626	21	108-109	.003	.15
16T-1042	Shoe Spring	a	T-2258-P-354	9	108-109	8	£.
16T-1043	Anchor Pin	e	T-1259-L-90	77	108-109	1.30	1.08
16T-1044	Bushing - Brake Shoe	P	T-1225-F-266	7	108-109	90.	.16
16T-1045	Anchor Pin Lock Screw	P	T-2X-26	ជ	108-109	800	8.
16T-1046	Anchor Pin Felt	P	T-5X-180	77	108-109	99000	90.
16T-1047	Anchor Pin Felt Retainer	e	T-1205-K-193	র	108-109	.01	
16T-1048	Anchor Pin Felt Retainer	P	T-1218-M-13	7	108-109	600	.04
167-1049	Spring Shield - Dust	S	UB-1025	9	108-109	6.25	5.08
	(See page 114 for details of assembly)						
16T-1050	Bearing - Spider needle	e	T-1228-A-53	9	108-109	.25	2.

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Government	Α,	Primary	Manufacturer			Unit	
Part No.	Part Name	Code	Part Number	Quen.	Раве	Weight	Price
16T-1055	Washer Lug	E	T-3840	4	109	. 33	.34
16T-1056	Nut - Bearing Adj.	e	TA-1227-M-169	4	109	0.63	1.38
16T-1057	Jem Nut - Bearing Adj.	e	T-T-3564	4	109	. 33	.82
16T-1067	Felt - Wheel Bearing Oil Seal	e	T-5X-265	7	109	.0665	.54
16T-1068	Retainer - Outer - Oil Seal	E	T-1205-L-272	4	109	.25	.15
16T-1069	Retainer - Inner-Oil Seal	Ę	T-1205-K-271	7	109	<u>જ</u>	8.
16T-1070	Washer - 011 Seal Felt	E	T-1229-K-713	7	109	8.	.12
16T-1071	Cam Shaft Assembly R. H.	E	T-2210-U-1451	٦	108	13.60	11.96
	Front						
16T-1072	Cam Shaft Assembly L. H.	B	T-2210-T-1450	т	108	13.60	11.96
16T-1073	Shoe and Lining Assembly	E	TA-3222-H-450	2	108-109	27.00	24.50
	(See page 114 for details						
	of assembly)						
16T-1074	Lining Cam End	E	T-2240-Z-910	ដ	108-109	2.60	4.56
16T-1075	Lining Anchor End	E	T-2240-A-911	77	108-109	9°8	3.92
16T-1076	Cam Shaft Washer	E	T-1229-M-559	9	108-109	01.	80.
16T-1077	Cam Shaft Washer	E	T-1229-0-771	9	108-109	920.	%
16T-1078	Cam Shaft Lockwasher	e	Т-1229-н-866	9	108-109	.014	90.
16T-1079	Screw Retainer Washer - Front	E	T-10x-39	8	108	020	.03
16T-1080	Retainer Washer - Slack	E	T-A-1229-J-166	8	108	.125	.26
	Adj Front						
16T-1081	Dust Shield Assembly R. H.	E	T-A1-3236-K-635	9	108-109	7.70	2.54
16T-1082	Dust Shield Assembly L. H.	e	T-A1-3236-L-636	9	108-109	4.70	2.54
16T-1083	Rivets - Lining	e	T-17X-177	192	108-109	1200.	.10
16T-1158	Bushing - Trunnion Bracket	SAC	STA-1005	∞	108	<u>ج</u>	1.00
16T-1291	Камр	吕	3rt-1446	ત	102	537.	26.00
16T-1306	Bolt - Rear Rad. Rod	鬥	1 FT -1016-6	ત્ય	103	.875	3.00
16T-1307	Bushing - Rad. Rod - Bunting	BBB	EF-350	~	103	41.	.50
16T-1309	YeH 7	片	J-2020	8	103	0.50	.30
16T-1310	Radius Rod Spacer Washer 1-1/8	氏	1-3318	8	103	.05	•05

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Part No.	Part Name	Code	Part Number	Onen.	Page	Weight	Price
16T-1311	Radius Rod Tongue Washer	民	1MT-1483	8	103	160.	8.
16T-1313	Radius Rod Rubber Bushing	馬	1MT-1442	4	103	.312	8.
16T-1314	Convection, Torgue Rod	民	2rr-1314	N	103	3.375	3.8
16T-1315	Bolt - Front Radius Rod	吕	1MT-1316-1	c۷	103	1.875	80
16T-1316	Washer - Radius Rod Bolt 1"	号	J-3316	œ	103	8.	70.
16T-1321	Safety Chain 2/Grab Hook	Ħ	1MT-1497-1	8	103	.98	0.9
ı	& Open Link						
16T-1325	Lunette	片	3MT-1430	п	707	୍ଷ	8.36
16T-1445	Sheave Assembly	片	1MT-1518	٦	105	ю	3.29
16T-1446	Pin Sheave	吕	1MT-1526-1	٦	105	. 625	67.
16T-1447	Hand Wheel	民	3MT-1504-2	٦	105	7.50	3.10
16T-1448	Shaft	Ħ	IMT-1514	-	105	9.50	3.50
16T-1449	Ratchet Wheel	Ë	2FT-1508	-	105	3.50	1.80
16T-1450	Key	片	2MT-1515-1	٦	105	. 062	.29
161-1451	Pawl	片	2MT-1509	ч	105	83	78.
16T-1453	Springs	片	2PTF-1507	9	105	. 562	%
16T-1540	Clemp, Tubing	BAR	202639	17	8	.084	.05
16T-1541	b1 m	BWR	217525	N	95	.167	97.
	(See page 114 for details						
	of assembly)						
16T-1542	Body	EA.R	211982	α	95	.0715	8.
16T-1543	Sleeve	BANK	203754	ત	95	.0061	8.
16T-1544	Nut	BWE	203755	7	95	.126	7.
16T-1545	Connector, Tubing	BAR	205824	-	32	1111.	.26
	of assembly)						
16T-1546	Body		202651	ч	95	.0625	.12
16T-1547	Sleeve	BME	200361	18	95-96	.0061	.02
16T-1548	Nut	岩	200360	18	95-96	.031	97.
16T-1549	Truck 4	色色	215604	ભ	93	5.25	10.58
	Trailer (See page 114 for						

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76 - 60			76	76	76	76	76	76	93-94			76	76	76	76	76	*	93-99	%			%	8	8			8	24	66
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220.1			2129	212	212	212	211	2136	2155			2036	2036	2036	80108	88	2159	一番	2051			2003	2156	2052			8000	2153	2030
i i			BAR	100		BATE	BWE	BWE	BMB			DA/R	BAC	BWE	BME	BME	12. N. M.		BME			BME	BWE						BWE
details of assembly)	4 for	}		Plunger	Plug, Spring	Spring	Pin	Ring, Packing	Connector Hose	(See page 115 for details	of assembly)	Gasket	Guide	Sleeve	Spring	Nut	Body	Hose, $3/4$ CD x $3/8$ ID	Union Tubing	(See page 115 for details	of assembly)	Body	Reservoir	Bracket, Assembly, Reservoir	(See page 115 for details		7" Dia.	Cock, Drain	Flug, Pipe 3/8"
16-1850	0//1-101		16T-1551	16T-1552	16T-1553	16T-1554	16T-1555	16T-1556	16T-1557			16T-1558	16T-1559	16T-1560	16T-1561	16T-1562	16T-1563	16T-1564	16T-1565			167-1566	16T-1567	16T-1568		,	16T-1569	16T-1570	16T-1577
	details of assembly) Counting Hose Rule 220165 5 03_0. 1.10 2.80) BWE 220165 5 93-94 1.10 2.80	details of assembly) Coupling, Hose (See page 114 for details of assembly)	details of assembly) BME 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of assembly) 5 93-94 1.10 2.80 Body 5 93-94 1.10 2.80 BME 212953 8 94 1.05 1.35	details of assembly) BAE 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of assembly) BAE 212953 8 94 1.05 1.35 Plunger	details of essembly) BAE 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of assembly) BAE 212953 8 94 1.05 1.35 Body Plunger BAE 212108 8 94 .007 .04 Plug, Spring BAE 212107 8 94 .031 .10	details of essembly) BAE 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of assembly) BAE 212953 8 94 1.05 1.35 Body Plunger BAE 212108 8 94 .007 .04 Plug, Spring BAE 212107 8 94 .031 .10 Spring BAE 212109 8 94 .031 .10	details of essembly) BAE 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of assembly) BAE 212953 8 94 1.05 1.35 Body Plunger BAE 212108 8 94 .007 .04 Plung, Spring Spring BAE 212109 8 94 .031 .10 Spring Spring Pin BAE 212109 8 94 .031 .10 Pin BAE 212109 8 94 .065 .04	details of essembly) BATE 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of assembly) BATE 212953 8 94 1.05 1.35 Body Plunger BATE 212108 8 94 1.05 1.35 Plunger Plunger BATE 212109 8 94 .007 .04 Plug, Spring Spring Spring BATE 212109 8 94 .005 .04 Pin Spring Packing BATE 211155 8 94 .0062 .04 Ring, Packing BATE 213630 8 94 .004 .004 .004	details of essembly) BAE 220165 5 93-94 1.10 2.80 (See page 114 for details of assembly) BAE 212953 8 94 1.05 1.35 Body Plunger BAE 212108 8 94 .007 .04 Plug, Spring Spring BAE 212109 8 94 .007 .04 Plug, Spring BAE 212109 8 94 .005 .04 Ring, Packing BAE 213630 8 94 .0062 .04 Ring, Packing BAE 213635 8 94 .004 .06 Connector Hose BAE 215535 5 93-94 .375 .90	details of assembly) BME 220165 5 93-94 1.10 2.80 (See page 114 for details of assembly) BME 212953 8 94 1.05 1.35 Body of assembly) BME 212108 8 94 .007 .04 Plunger Plunger BME 212109 8 94 .007 .04 Plung Spring Spring BME 212109 8 94 .005 .04 Plung Spring Spring Spring BME 212109 8 94 .005 .04 Pin Spring Sprin	details of essembly) BATE 220165 5 93-94 1.10 2.80 (See page 114 for details of assembly) BATE 212953 8 94 1.05 1.35 Body BATE 212108 8 94 .007 .04 Plunger BATE 212107 8 94 .007 .04 Plug, Spring BATE 212107 8 94 .005 .04 Pin BATE 212109 8 94 .005 .04 Pin BATE 213630 8 94 .006 .04 Ring, Packing BATE 213630 8 94 .006 .04 Connector Hose BATE 215535 5 93-94 .375 .90 (See page 115 for details Accounted to the samply) 5 93-94 .375 .90	details of essembly) BME 220165 5 93-94 1.10 2.80 (See page 114 for details of assembly) BME 212953 8 94 1.05 1.35 Body BME 212108 8 94 1.05 1.35 Plunger BME 212109 8 94 .007 .04 Plunger BME 212109 8 94 .007 .04 Plunger BME 212109 8 94 .005 .04 Plunger BME 212109 8 94 .005 .04 Plunger BME 212109 8 94 .006 .04 Plunger BME 213630 8 94 .006 .04 Plunger BME 213630 8 94 .006 .04 Plunger BME 215535 5 93-94 .375 .90 Cassembly BME 20368 10 94 .0012 .08	details of essembly) BATE 220165 5 93-94 1.10 2.80 (See page 114 for details of assembly) BATE 212953 8 94 1.05 1.35 Body Plunger Plunger Plunger Plung, Spring Spring Plung, P	details of essembly) BME 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of assembly) BME 212953 8 94 1.05 1.35 Body Plunger BME 212108 8 94 1.05 1.35 Plunger Plunger BME 212107 8 94 .007 .04 Plug, Spring Plug BME 212107 8 94 .007 .04 Spring Plug BME 212107 8 94 .006 .04 Spring Plug BME 211155 8 94 .006 .04 Ring, Packing Plug BME 21155 8 94 .006 .04 Ring, Packing Plug BME 215535 5 93-94 .375 .90 Connector Hose (See page 115 for details BME 203608 10 94 .0012 .08 Gasket BME 203609 10 94 .002 .12 Guide BME 203610 10 94 .02 .20 Good Office BME 203610 10 94 .002	details of essembly) BATE 220165 5 93-94 1.10 2.80 (See page 114 for details of assembly) BATE 212953 8 94 1.05 1.35 Body Plunger BATE 212108 8 94 1.05 1.35 Plunger Plunger BATE 212107 8 94 .007 .04 Plung, Spring Plung BATE 212107 8 94 .007 .04 Pin Spring Plung BATE 212107 8 94 .005 .04 Pin Spring Plung BATE 212109 8 94 .005 .04 Pin Spring Plung BATE 213630 8 94 .006 .04 Connector Hose Connector Hose Connector Hose BATE 215535 5 93-94 .375 .90 Gasket Spring Of assembly) BATE 203608 10 94 .0012 .08 Gasket Spring Guide BATE 203609 10 94 .002 .20 Spring Sprin	details of assembly) BME 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of assembly) BME 212953 8 94 1.05 1.35 Body Plunger BME 212108 8 94 1.05 1.05 Plunger Plunger BME 212109 8 94 .007 .04 Plunger Plunger BME 212109 8 94 .005 .04 Pin Spring Plunger BME 212109 8 94 .006 .04 Pin Spring Plunger BME 211553 8 94 .006 .04 Ring, Packing Plunger BME 215535 5 93-94 .375 .90 Connector Hose Onnector Hose (See page 115 for details BME 215535 5 93-94 .375 .90 Gasket BME 203608 10 94 .002 .12 Guide BME 203609 10 94 .125 .20	details of assembly) Coupling, Hose (See page 114 for details of assembly) Body Body Plunger Plun	details of essembly) Coupling, Hose (See page 114 for details of assembly) Body Coupling, Hose (See page 114 for details of assembly) Body Edge page 115 for details of assembly) Body Body Edge page 116 for details of assembly) Body Edge page 115 for details of assembly) Body Coupling, Hose (See page 116 for details of assembly) Body Coupling Body Edge page 115 for details of assembly) Body Coupling Edge page 115 for details of assembly) Edge page 115 for details of assembly) Edge page 115 for details of assembly) Edge page 115 for details and assembly	details of essembly) Coupling, Hose (See page 114 for details of assembly) Body Flug, Spring Spring Spring Connector Hose (See page 115 for details Of assembly) Body Coupling, Hose (See page 115 for details Of assembly) Bulk 202608 Connector Hose (See page 115 for details Bulk 202608 Connector Hose (See page 115 for details Of assembly) Bulk 202608 Connector Hose (See page 115 for details Of assembly) Bulk 202608 Spring Connector Hose (See page 115 for details Of assembly) Bulk 202608 Spring Spring Spring Bulk 202609 Spring Spring Spring Bulk 202609 Spring Spring Spring Bulk 202609 Spring Spring Spring Such 202608 Spring Spring Spring Spring Spring Such 202608 Spring Spring Spring Such 202608 Spring Spring Spring Such 202608 Spring Spring	details of easembly) Goupling, Hose 5 93-94 1.10 2.80 (See page 114 for details of assembly) BAE 212953 8 94 1.05 1.35 Body BAE 212107 8 94 1.05 1.35 Plunger BAE 212107 8 94 .007 .04 Plunger BAE 212107 8 94 .007 .04 Plunger BAE 212107 8 94 .007 .04 Plunger BAE 212107 8 94 .005 .04 Plunger BAE 212107 8 94 .006 .04 Paring BAE 212107 8 94 .006 .04 Paring BAE 212530 8 94 .006 .04 Connector Rose BAE 212530 8 94 .006 .04 Connector Rose BAE 215535 5 93-94 .375 .90 Gasket BAE 203608 10 94 .002 .12 Guide BAE 203609 10 94 .125 .20 Spring BAE 203613 10 94 .126 .48 Body .11 .12 <td>details of essembly) Coupling, Hose (See page 114 for details of assembly) Body Fig. 212953 Body Fig. 212065 Spring Spring Spring Gasket Guide Spring Guide Spring Spri</td> <td>details of essembly) HE 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of essembly) BME 212053 8 94 1.05 1.35 Body Plumger BME 212107 8 94 .007 .04 Plum, Spring BME 212107 8 94 .006 .04 Plum, Spring BME 212107 8 94 .007 .04 Plum, Spring BME 212107 8 94 .006 .04 Plum, Spring BME 212535 5 93-94 .375 .90 Connector Hose BME 215535 5 93-94 .375 .90 Connector Hose BME 215535 5 93-94 .375 .90 Connector Hose BME 205608 10 94 .0062 .00 Gesket BME 205608 10 94 .125 .30 Sprin</td> <td> Coupling, Hose Coup</td> <td>details of essembly) HAE 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of assembly) BAE 212953 8 94 1.05 1.35 Body Plunger Plunger Plunger Plung Spring BAE 212108 8 94 1.05 1.35 Plunger Plung Spring BAE 212107 8 94 1.007 1.04 Plung Plung Spring BAE 212107 8 94 1.007 1.04 Plung Plung Spring BAE 212109 8 94 1.007 1.04 Plung Plung Spring BAE 215535 99-94 1.062 1.04 Ring Commercur Hose Commercur Hose Comescur Hose 8 94 1.005 1.04 Gasket BAE 215535 5 99-94 1.05 1.06 Gasket BAE 205609 10 94 1.06 1.25 Spring BAE 205609 10 94 1.06 1.06</td> <td>details of essembly) BME 220165 5 93-94 1.10 2.80 Coupling, Hose of essembly) (See page 114 for details of essembly) BME 212953 8 94 1.05 1.35 Body Plunger Plunge</td> <td> Coupling, Hose Ho</td> <td>details of assembly) Coupling, Hose (See page 114 for details Dedy Fing Fing Spring Spr</td> <td>details of essembly) Coupling, Hose (See pege 114 for details of assembly) Bady Spring Fing Spring Spring Gasket Connector Hose (See pege 115 for details Of assembly) Fing Spring Spring</td>	details of essembly) Coupling, Hose (See page 114 for details of assembly) Body Fig. 212953 Body Fig. 212065 Spring Spring Spring Gasket Guide Spring Guide Spring Spri	details of essembly) HE 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of essembly) BME 212053 8 94 1.05 1.35 Body Plumger BME 212107 8 94 .007 .04 Plum, Spring BME 212107 8 94 .006 .04 Plum, Spring BME 212107 8 94 .007 .04 Plum, Spring BME 212107 8 94 .006 .04 Plum, Spring BME 212535 5 93-94 .375 .90 Connector Hose BME 215535 5 93-94 .375 .90 Connector Hose BME 215535 5 93-94 .375 .90 Connector Hose BME 205608 10 94 .0062 .00 Gesket BME 205608 10 94 .125 .30 Sprin	Coupling, Hose Coup	details of essembly) HAE 220165 5 93-94 1.10 2.80 Coupling, Hose (See page 114 for details of assembly) BAE 212953 8 94 1.05 1.35 Body Plunger Plunger Plunger Plung Spring BAE 212108 8 94 1.05 1.35 Plunger Plung Spring BAE 212107 8 94 1.007 1.04 Plung Plung Spring BAE 212107 8 94 1.007 1.04 Plung Plung Spring BAE 212109 8 94 1.007 1.04 Plung Plung Spring BAE 215535 99-94 1.062 1.04 Ring Commercur Hose Commercur Hose Comescur Hose 8 94 1.005 1.04 Gasket BAE 215535 5 99-94 1.05 1.06 Gasket BAE 205609 10 94 1.06 1.25 Spring BAE 205609 10 94 1.06 1.06	details of essembly) BME 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Part No.	Part Name	Code	Manuiscturer Part Number	Quen.	Page	Weight	Price
16T-1579	Connector, Hose (See page 115 for details	ame a	215536	8	63-67	.333	8.
16-11580	Body (Body includes Guide)	四	215993	3	76	.10	79.
16r-1581	Emergency	EEE	201499	. 1	8	.036	01.
16T-1582	Tag, Service	BME	201500	-	\$.036	2.
16T-1583	Stud. Clemping	BATE	205730	m	4	0.60	1.40
	(See page 115 for details						
167-1584	Body	BME	201945	m	8	0.50	1.34
16T-1585	Washer	BWE	201946	m	46	20 .	%
16T-1586	Connector Tubing	BME	205053	9	95	.10	ୡ
	(See page 115 for details						
787 1487	Bod v	HANGE OF THE PARTY	200359	9	95	90.	.12
16T-15T	Elbow. Tubing	超	205102	₩	%	111.	87.
16T-1589		BWE	200437	∞	96	.059	.18
16T-1590	Velve, Quick Release	BME	205000	т	44	1.8	3.50
	(See page 115 for details						
164-1591		BAR	204847	ત	46	0.75	1.94
16T-1592	Cover	BMB	211028	٦	4	.333	1.48
16T-1593	Dampner	田田	203328	٦	44	.166	.07
16T-1594	Spring	BAR	202588	ત	46	.033	.42
16T-1595	Disphragm	BAR	211379	٦	44	.333	3.
16T-1596	Вu	BAR	202587	7	26	.02	7.
16T-1598	Reducing Bushing 3/8-1/4	BWB	203497	CV.	66	.187	8.
16T-1599			214253	(1)	8	8.	3
16T-1600	Filter, Type E	BWE	221022	ત્ય	86	07.9	8.7
	(See nege 115 for details						

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Part No.		Part Name	Code	Part Number	Quen.	Page	Weight	Price
16T-1601	Flange, Pipe	Pipe	BWE	214134	4	8	96	8
16T-1602	Support	Support Strainer	BWE	171,171	ď	86	8	1.50
16T-1603	Body		BWE	214169	~	86	4.00	07.6
16T-1604	Strainer	H	BWE	221053	ď	86	1.16	2.38
16T-1605	Gasket,	Gasket, Flange	BWE	214174	4	86	400.	34
16T-1606	Gasket, Body	Body	BWE	214173	CV	86	900	.28
16T-1607	Chamber, Dirt	. Dirt	BWE	214172	~	86	1.50	3.42
16T-1608	Plug, Pipe	ipe	BME	213530	N	86	40.	77
16T-1610	Couplin	Coupling, Dummy	BWE	220636	m	66	0.50	.52
	(See	(See page 116 for details						
	of a	of assembly)						
16T-1615	Spring, Seal	Seal	BWE	214845	N	16	.0625	.24
16T-1616	Washer, Seal	Seel	BWE	214851	ત્ય	16	40.	97.
16T-1617	Plate,	Plate, Pressure	BWE	211853	8	16	4.90	5.42
16T-1618	Diaphragm	5.	BWE	200630	~	16	1.25	3.8
16T-1619	Spring,	Spring, Proportional	BWE	213088	ď	16	0.0	1.52
16T-1620	Lockwas	Lockwasher 5/8" Shakeproof	BIME	201777	4	16	900.	97.
16T-1621	Yoke As	Yoke Assembly, comp. w/Pin	BWE	216797	N	16	0.375	1.28
	& Cotterp.	terp.						
16T-1622	Plate,	Plate, Non-Pressure	BME	213081	ď	16	11.00	11.40
16T-1625	Pin, Cl	Pin, Clevis 5/8" dia. x	BME	210797	64	4	8.	8
	2 1/8"							
16T-1628	Plug, P	Plug, Pipe 1/8"	BWE	203680	9	85	110.	70.
16T-1629	Shaft,	Worm	BWE	212630	9	8	8	.3
16T-1630	Lock		BWE	201327	9	8	900.	70
16T-1631	Spring		BWE	212633	9	92	.033	70
16T-1632	Plug, Screw	Crew	BWE	201326	9	8	.005	7
16T-1633	Worm		BWE	212628	9	8	.125	1.40
16T-1634	Plug, W	Plug, Welsh 5/8"	BWE	212357	9	85	900.	8
16T-1635	COVER		BWE	212631	77	92	.333	.24
A571-m71	Pivet		10.10	212622	00	8	5	5

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Bushing 1/2 ID x 5/80D x 1/21g. Yoke, complete with Pin & Bur 205948 Cotter Plate, Pressure Bur 202880 Disphragm Spring, Outer Spring, Outer Spring, Seal Plate, Non-Pressury Bur 212294 Spring, Seal Pur 212294 Spring, Seal Pur 212295 Spring, Seal Pur 212295 Valve, Relay Emergeney (See page 116 for details of assembly) Nut, Cap Spring Valve, Cap Spring Valve, Sal Bur 202692 Spring Valve, Seap Spring Valve, Sal Spring Spri	Government Part No.	Part Name	Primery Code	Manufacturer Part Number	Quen.	Page	Unit Weight	Pr 1ce	
Toke, complete with Pin & BWE 205948 Cotter Plate, Fressure Plate, Fressure BWE 202880 Disphragm Spring, Inner Spring, Outer BWE 202095 Spring, Seal BWE 212294 Spring, Outer BWE 212294 Spring, Outer BWE 212295 Spring, Seal BWE 212295 Spring, Seal BWE 212295 Spring, Seal BWE 212295 Spring See page 116 for details of assembly) BWE 202692 Spring Valve, Supply BWE 202693 Includes 202692, 202699, 202693, 202699, 202693, 202699, 202693, 202696, 201367, 202694, 202069, 202697, 202699, 202696, 202277 (See page 116 for details of assembly) Body Comp. Valve includes Switch BWE 216071 Body Comp. Valve includes Doubly Doubl	-1637	5/800	BWB.	201225	9	26	.02	at.	
Plate, Pressure Plate, Pressure BWE 202880 2	0791-		BWE	205948	8	16	.375	96.	
Disphragm Spring, Inner Spring, Outer Spring, Outer Masher, Seal Spring, Outer Masher, Seal Spring, Outer Masher, Seal Spring, Seal Spring, Seal Flate, Non-Pressury Flate, Non-Pressury Flate, Non-Pressury Flate, Non-Pressury Flate, Non-Pressury Flate, Seal Flate, Non-Pressury Markergeney Flate, Sono-Pressury Markergeney Markerge	1-1641	Corver Plate, Pressure	BWE	202880	N	91	1.30	1.66	
Spring, Inner Spring, Outer Spring, Outer Spring, Outer Spring, Outer Spring, Outer Masher, Seal Spring, Seal Flate, Non-Pressury Flate, Souch Tallace and Sasembly Flate, Supply Spring Walve, Supply Walve, Supply Walve, Supply Spring Flate, Supply Spring Flate, Supply Flate, Supply Spring Flate, Supply Fl	-1642	Disphracm	E E	200001	લ	7	. 75	8	
Spring, Outer Washer, Seal Washer, Seal Washer, Seal Spring, Seal Plate, Non-Presquy Bwg 217269 Walve, Relay Emergency Of assembly) Nut, Cap Spring Valve, Supply Sect, Valve Valve Assembly, Relay - Includes 202692, 202699, 202693, 202696, 202699, 202693, 202696, 202697, 202691, 203016, 204651, 202698, 202696, 203227. (See page 116 for details of assembly) Body Comp. Valve includes Bwg 212135 Dane Assembly) Body Comp. Valve includes Bwg 212135 Dane Assembly) Body Comp. Valve includes Bwg 212135 Dane Assembly)	:-1643	Spring, Inner	BWE	212294	8	16	.0715		
Washer, Seal Washer, Seal Spring, Seal Plate, Non-Presque Plate, 21/269 Z00654 Valve, Relay Marganey Nut, Cap Spring Valve, Supply Spring Valve, Supply Spring Valve, Supply Spring Valve, Supply Sockey, 202699, 202699, 202699, 202699, 202696, 202697, 202691, 203016, 204651, 202691, 203016, 204651, 202698, 202696, 203227. (See page 116 for details of assembly) Body Comp. Valve includes Bull 216071 Bull 216071 Bull 216071 Bull 216071 Bull 216071 Bull 216071	-1644		BAN	212295	8	91	.10		
Spring, Seal Plate, Non-Presquy Plate, Non-Presquy Pur Clevis 1/2 x 1 x/4 See page 116 for details of assembly) Nut, Cap Spring Valve, Supply Spring Valve, Supply Seat, Valve Valve Assembly, Relay - Includes 202699, 202698, 202697, 202699, 202699, 202697, 202699, 202696, 203227. (See page 116 for details of assembly) Body Comp. Valve includes During Spring S	1-1645	Washer, Seal	BWE	214848	7	16	.0312		
Plate, Non-Pressury Pin Clevis 1/2 x 1 x/4 See page 116 for details Of assembly) Bulk 202699 Nut, Cap Spring Valve, Supply Spring Valve, Supply Set, Valve Tacludes 202699, 202699, 202699, 202699, 202699, 202699, 202699, 202699, 202699, 202699, 202699, 202699, 202699, 202696, 202697, 202691, 202696, 202696, 202697, 202698, 202696, 202696, 202697, 202698, 202696, 202697, 202690, 202696, 202697, 202697, 202696, 202697,	2-1646	Spring, Seal	BATE	214843	7	16	800	•	
Pin Clevis 1/2 x 1 x/4 BME 20054, 2 Valve, Relay Maergeney GME 220353 1 (See page 116 for details of assembly) Nut, Cap Supply Spring Valve, Supply Seat, Valve Includes 202692, 202699 1 Suze, Valve Includes 202692, 202699, 202699, 202693, 202699, 202697, 202690, 202698, and 212135 Body Comp. Valve includes BME 216071 1 Body Comp. Valve includes BME 212135	1-1647	Plate, Non-Pressure	BMS	217269	~	16	8.8	3.8	
Valve, Relay Emergency (See page 116 for details of assembly) Nut, Cap Spring Valve, Supply Seat, Valve Valve Assembly, Relay — Includes 202692, 202699, 202693, 202699, 202693, 202699, 202694, 202699, 202696, 202699, 202696, 202699, 202696, 202699, 202697, 202699, 202698, 202699, 202699, 202699, 202699, 202699, 202699, 202699, 202699, 202696, 303227. (See page 116 for details of assembly) Body Comp. Valve includes BWE 216071	8791-1	Pin Clevis 1/2 x 1 1/4	BA78	750002	C)	1	10	3	
(See page 116 for details of assembly) Nut, Cap Spring Spring Valve, Supply Set, Valve Supply Set, Valve Taludes 202699, 202693, 202699, 202693, 202699, 202693, 202699, 202691, 203016, 204568, 202691, 203016, 204651, 202698, 202696, 203227. (See page 116 for details of assembly) Body Comp. Valve includes BME 216071 11 202690, 204568, and 212135	6791-1	Valve, Relay Emergency		220353	٦	8	10.4	71.00	
Of essembly) Nut, Cap Spring Spring Valve, Supply Seat, Valve Valve Assembly, Relay - Valve 202699, 202699, 202699, 202696, 202699, 202691, 202696, 203227. (See page 116 for details of assembly) Body Comp. Valve includes Date Comp. Valve and 212135 Brating Contact Cont		HO							
Nut, Cap Spring Spring Valve, Supply Valve, Supply Sect, Velve Sect, Velve Assembly, Relay - Includes 202692, 202699, 202693, 202699, 202693, 202696, 202699, 202691, 202696, 202697, 202698, 202696, 202697, 202698, 202696, 203227. (See page 116 for details of assembly) Body Comp. Velve includes Body Comp. Velve and 212135 Body Comp. Velve and 212135 Body Comp. Souther Section Sect		of assembly)							
Spring Valve, Supply 9est, Valve FWE 202693 1 1 1 1 1 1 1 1 1 1 1 1 1	-1650	Nut, Cap	BMB	202692	-	8	8	3 .	
Valve, Supply Seat, Valve Seat, Valve Valve Assembly, Relay - Includes 202692, 202699, 202693, 202699, 202693, 202696, 204568, 212135, 202869, 211367, 204650, 202695, 202697, 202691, 203016, 204651, 202691, 203016, 204651, 202698, 202696, 203227. (See page 116 for details of assembly) Body Comp. Valve includes EME 216071 Body Comp. Valve includes EME 216071	-1651	Spring	BWE	202699	~	8	90.	.14	
Seat, Valve Valve Assembly, Relay - Valve Assembly, Relay - Includes 202692, 202699, 202693, 202696, 204568, 212135, 202869, 21367, 202691, 203016, 204651, 202691, 203016, 204651, 202698, 202696, 203227. (See page 116 for details of assembly) Body Comp. Valve includes Bulk 216071 1 202690, 204568, and 212135	-1652	Valve, Supply		202693	~	8	380.	70.2	
Valve Assembly, Relay - Includes 202692, 202699, 202693, 202690, 204568, 212135, 202869, 211367, 202650, 202695, 202697, 202691, 203016, 204651, 202698, 202696, 203227. (See page 116 for details of assembly) Body Comp. Valve includes EME 216071 Death 120 Cut 46	-1653	Seat, Valve	BATE	202690	-	8	.0125		
Includes 202692, 202699, 202693, 202690, 204568, 212135, 202869, 211367, 204650, 202695, 202697, 202691, 203016, 204651, 202698, 202696, 203227. (See page 116 for details of assembly) Body Comp. Valve includes BWE 216071 202690, 204568, and 212135	-1654	Valve Assembly, Relay -				•			
212135, 202869, 211367, 204650, 202697, 202691, 203016, 204651, 202698, 202696, 203227. (See page lib for details of assembly) Body Comp. Valve includes BME 216071 1 202690, 204568, and 212135		CA							
204650, 202695, 202697, 202691, 203016, 204651, 202698, 202696, 203227. (See page 116 for details of assembly) Body Comp. Velve includes BME 216071 202690, 204568, and 212135									
202691, 203016, 204651, 202698, 202696, 203227. (See page 116 for details of assembly) Body Comp. Valve includes 202690, 204568, and 212135 Brite 212036		202695,							
202698, 202696, 203227. (See page ll6 for details of assembly) Body Comp. Valve includes BME 216071 1 202690, 204568, and 212135		203016,							
(See page lib for details of assembly) Body Comp. Velve includes BME 216071 1 202690, 204568, and 212135 Bushing Cuids		202696,							
of assembly) Body Comp. Valve includes BME 216071 202690, 204568, and 212135 Buching Cuids		116 for							
Body Comp. Valve includes BMB 216071 1 202690, 204568, and 212135		of assembly)							
District Cold British Cold Cold Cold Cold Cold Cold Cold Cold	-1655	₩,		216071	~	8	2.63	12.54	
Bushing, Guide DWB ALALIS L	16T-1657		BMB	212135	-	8	.25	98.	

164-1658	Part Name	Code	Part Number	Quen.	Page	Weight	Price	'AKI
								<u>s c</u>
	Ring. Guide	BAR	202869	-1	8	.0125	77.	<u> </u>
	Gasket, Cover	HAN.	211367	-1	8	.0166	71.	ΛL
16T-1660	Guide. Disphragm	HAN	204650	-	8	0.81	1.24	<u>OC</u>
•	Disphragm	BAR	202695	- 1	8	.0588	.34	3
	Seat, Spring	BATE	202697	H	8	.0312	8	
	Cover, Top	BATE BATE	202691	т	8	0.39	1.66	
	Screw, Diaphragm	BANK BANK	204651	٦	8	.01	7.	
	Washer, Diaphragm	四十四	202696	٦	2	.0166	*	
	Spring	BATE	202698	-1	\$	•05	.62	
	Gasket	BME	202735	ત	8	.0166	7.	
	Mut, Cap	BWI	202741	ત	8	.1666	.52	
	Stem. Valve		203379	н	8	.0625	1,38	
	Valve. Assembly. Emergency	HAR	220829	-1	8	4.50	25.60	
	includes 202741, 203379,							
	202746, 202736, 202743,							
	202738, 202747, 202744,							
	200029							
	213225,							
	211542,							
	213230,							
	211595,							-
	211537,							_
16T-1671	Valve, Emergency, includes		215204	-	8	6. 9.	2.50	
	(See page 116 for details							
	3							-
16T-1673	Bushing, Valve	DA.	202736	н	&	.0625	ন	
	Support, Diaphragm	BWIE	202743	7	8	.0166	77.	
	Spring, Emergency		202738	7	8	.0166	8	
	Gasket, Bottom Cover	BME	202747	- 1	8	.0166	71.	
16T-1677	Diaphragm	DAME.	202744	- 1	8	.0312	77.	-

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211542, 213229, 213228, 213230, 213230, 21326, 213224, 211595, 211538, 211539, 211537	Cover, complete includes, 213225, 213224, and 211537 Body, Cover	Diaphragm Assembly, includes 213227, 211541, 211542, 211538, 211539, 211595 (See page 117 for details	Diaphragm Follower, Lower	Shim, OII" Thick (as many as necessary to close velve at 70# 80# pressure)	
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Government		Primary	Manufacturer			Unit	
Part No.	Part Name	Code	Part Number	Quen.	Page	Weight	Price
16T-1695	Bell & Stem Assembly, in- cludes 211538 & 211539	BWE	221227	٦	8	.01428	.80
16T-1696		BWE	211538	Н	8	.005	87.
16T-1697	Ball	BACK.	211539	٦	. 2	.00605	36.
16T-1698	Seat	EME	211537	٦	.8	800.	88
16T-1699	Seat, Spring	EME	202737	н	8	.02	71.
16T-1700	Valve, Exhaust Check	BME	221087	-	23	.166	1.76
	(See page 117 for details						
	of assembly)						
16T-1701	Body	BAR	214231	٦	63	8.	1.76
16T-1702	Diaphragm	BMB	214232	٦	83	002	80.
16T-1703	Washer	BWE	214234	٦	93	2000.	•01
16T-1704	Screw, Machine		21,235	٦	93	200.	.01
16T-1705	Washer, Diaphragm	BMB	214233	ч	8	. 005	70.
16T-1706	Tubing, Copper 3/8 0.D.			A/R	8	0.186 Jt.	.18/
16T-1708	Loom, 7/16"	BMB		A/R	8	.03 Ft.	
16T-1709	Tubing, Copper 1/2" 0.D.			A/R	8	. 25 Pt.	.30/
16T-1710	Loom, 9/16"	BMB		A/R	8	.04 Ft.	./20
16T-1711	Hex Hd. Bolt - Pressure Bate	BME	211370	. &	16	.01	.05/
16T-1712	Lockwasher	BWE	201504	%	91	.002	10.
16T-1713	Nut - Mounting Stud	EMB EMB	203007	4	16	.0166	70.
16T-1714	Nut Hex	BWE	203569	8	16	.07	.02
16T-1716	Bolt, Hex Head, pressure		203151	፠	16	.025	•05
	Plate			ı			-
16T-1717	Nut Hex - Pressure Plate Bult	BATS	214152	36	16	.01	•05
16T-1718	Washer, Stud		203173	7	16	.02	•05
16T-1719	Nut - Stud	BWE	203172	4	16	.0625	90.
16T-1720	Nut - Hex - Jam	BAR	203575	~~	16	.0312	0.00
16T-1721	Cotter	BAR E	203156	7	な	900.	.02
16T-1722	Nut, Hex	BWR	203227	(1)	8	.00625	.02
16T-1723	Bolt, Hex	13. 13. 13.	203388	4	8	.0625	97.

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Pin, Cotter	BME		203016		1	8	.0625	.01
Lockwasher			202982		7	8	.00625	.01
	x 3/8 x 1/4 BWE		205104		7	፠	991.	87.
(See page 117 for details of assembly)								
	BME		200436		7	96	.0715	77.
Tubing Clamp BWE	ag Clamp BWE		200706		ત્ય	66	0 7	.03
Worm Gear BME 2.	到		212629		9	92	0.88	2.42
16T-1811 Socket Assembly WEB W 3529	WEB	3	W 3529		7	901	1.50	2.25
(See page 117 for details	for							
I assembly (Value of the control of		:			•	•	,	;
Case Socket WEB W	WEB W	3	•		٦	100	0.85	8.
Insulator WEB W	WEB	3			ત	901	જ.	.15
Washer, Socket Terminal Bolt WEB W	WEB	3			4	100	.005	.01
16T-1815 Nut, Terminal Bolt #10-32 SAE WEB W 110477-A	K WEB W	WEB W			4	001	.00312	70°
Brass								
Washer, Plain, Brass WEB W	SS WEB W	3	W 110110		4	901	.0033	.01
Washer, Shakeproof #10 WEB W	#10 WEB W	3			7	8	2 00.	•01
Washer, Terminal Cup WEB W	WEB W	3		•	4	100	.00625	•05
WEB W	WEB W	3		•	4	8	.0125	90.
Assembly Socket Cap WEB	WEB W	3			H	100	.20	.18
Nut, Jam Hex 1/4" SAE WEB W	WEB W	3			٦	100	9910.	.02
Bolt, Cap WEB W	WEB W	3			д	100	.0181	70.
Washer, Shakeproof 1/4"	1/4" WEB W	3			٦	100	.0025	.01
8 Brass WEB W	8 Brass WEB W	3	W 110006		т	100	.00312	•05
Blade, Socket Contact	WEB W	3	W 110247		7	100	.0166	70.
Insert, Socket Bakelite	te WEB W	3			7	100	900.	07.
	WEB W	3			٦	100	4.	•34
Lamp, Amber Clearance KD KD		Q		9-	ત્ય	102	0.00	78.
(See page 118 for details	etails	•	•					
of assembly)	of assembly)							

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Manufacturer Part Number	KD 951-1-6	KD 950-1-6	KD 541-B0-6	KD 541-00-6	KD 541-B0-6			KO 5140 KO 1555 KO 2878		
Primary		A	Ø		Q			9999	a e e s	a a
Part Name	Lemp Assembly, Blackout Stop & Blackout Tail (See page 118 for details	Lamp Ass'y, Service Stop & Tail & Blackout Tail (QMC-08242-X) (See page 118 for details	Lamp, Red Blackout (See page 118 for details of assembly)	Lamp, Red Clearance (See page 118 for details	Lamp, Blue Blackout (See page 119 for details	Housing Back Plate	Lens, Amber Screw - 3/16x3/4 Lg.R.H.Stove Clip	Pad, Felt Bulb, 1 1/2 CP. 6-8 Volt Gasket	Nipple Wire Reflector, Red	Reflector, Amber Unit, Upper RH (Blackout
Government Part No.	16T-1856	16T-1857	16T-1858	16T- 1859	16T-1860	16T-1861 16T-1862	16T-1863 16T-1864 16T-1865	16T-1866 16T-1867 16T-1868	16T-1869 16T-1870 16T-1871	16T-1872 16T-1873

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Government Part No.	Part Name	Primery Code	Manufacturer Part Number	Quen.	Раке	Unit Weight	Price
16T-1874	Stop) Unit, Lower RH (Blackout		л9- 0708 ФХ	8	101	જ.	.78
16T-1875 16T-1876	Door, B.O. Stop & Tail Screw, Lamp Door		KD 2460 KD 6798	4	101	800.	86.
16T-1877 16T-1878	Body Assembly Unit, Upper IH (Service			8 H	101	ୡ୕ୡ	79.
16T-1879	Stop & Tail/ Door, Service Stop & Tail & B.O.")		KD 2461	-	101	8.	.26
16T-1880	Plug & Wire Assembly, Service Stop & Tail	Ð	KD 4786	ત	101	.01	.16
16T-1881	Plug & Wire Assembly, Black-out Tail & Blackout Stop	Q	KD 4785	Т	101	.01	.16
16T-1882 16T-1883	Lens with Red Filter Lens, Ruby		KD 8013 4392	ભ ભ	102	. 125 125	75.
16T-1884	Lens, with Blue Filter		KD 8014	w 2	102	.125	79.
167-1888	Switch, Blackout	# E	Doug. 5976	(~ °	101	0.50	1.10
16T-1889 16T-2095	wasner - brass Lesh Rings	H.	2MT-1036-1	ئا	103	3.312	1.20
16T-2096	Lash Ring Brackets	胃	2MT-1036-2	15	103	1.062	.36
16T-2200	Wheel Assembly - Rear (Budd) 20 x 8 Rim	孟	B 44470	6	107	S	17.62
16T-2406		HER	1150-c	ч.	112	3.00	1.65
16T-2407 16T-2409	Wrench - Universal Rim 12 Ton Hyd. Jack - With		1150-A E129A	- 1 -1	112	7.00 7.00 7.00	2.50
16T-2410 16T-2412 16T-2413	Handle Padlock & Keyes Screw Driver 10" Pair Combination Pliers 6"			ннн	222	09.0	1.56

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Government Part No.	Part Name	Primary Code	Manufacturer Part Number	Quen.	Page	Veight	Price
16T-2414	One Pound Bell Pein Hammer			4-	211	1.30	1.60
16T-2415	Crescent Wrench 10" Load Binders - Complete	MKCP	32	4 m	35	3.68 8.68	10.01
1	w/Hook on side of Clevis		•	V	•		
16T-2418	Chains 1/2 x 18'-0"			m	113	45.00	11.40
16T-2419	Spindle Nut Wrench Rear	N.	2MT-1704	т	112	1.437	3.00
	(Timken)						,
16T-2423	Grease Gun				112	1.14	%·9
16T-2624	Pawl Plate Assembly	NAS	T-17	ત	111	8.50	1.30
16T-2629	Shaft w/Ratchet welded in	NAS	T-648	ત	111	8.50	2.20
	Place						
16T-2630	Cable - 7'-0" Lg.	NAS	T-5	a	111	.562	2.8
16T-2634	U- Bolt & Nuts	NAS	T-11	7	111	.0832	.20
16T-2738	Tire 9.00/20 - 10 Ply			6	107	111.	*
	(*) Prices on Application	ation					
16T-2739	Tube Inner 9.00/20			6	107		
16T-2740	Flap - Tire - 900120			6	107	10.437	*
16T-2742	Cap Valve	SV	880	13	*	.0025	70.
16T-2743	Core Valve	SV	0007	13	*	.00164	•05
16T-2842	Drive Screws #6 x 3/8"	出	3-1766	₩		.00138	70.
15T-2843	Alemite Fitting Straight		1610	∞	103,4,8,9		70.
	1/8 P.T.						
16T-2844	Alemite Fitting 67½ - 1/8 P.T.	H.	1612	9	103,5,8,9	.025	80.
16T-2946	Bolt Spider Adapter 1/2 x	TOA	T-15x-79	%	*	. 25	.05
	1 5/8 SAE						
16T-2947	Nut - Spider Adapter Bolt &"	Ħ.	1-208	ווו	*	.0625	•05
16T-2948	Lockwasher - 1/2" SAE		J-318	112	*	01316	.01
16T-2951	Lockwasher - 5/16"	吊	J-315	1	*	.003	10.
16T-2953	Nut - Hex 5/8" SAE	馬	J-2010	07	*	.125	70.
16T-2954	81 5/8"	SAK JH	J-3110	ឧ	*	.025	.03
*	* Prices on application						

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Washer Plain 5/8" Nuts - Hex 3/4 SAE Lockwasher 3/4 SAE Castle Nut - Rear Red. Rod	Castle Nut - Rad. Bolt 1" SAE Cotter Pim 1/8 x 1 1/2 Rad. Rod Bolt Cotter Pin - Clevis Pin 1/8x1 Plein Wesher 1/2	Shaft 3/8 x 2 1/4" Lg. Lockwasher 3/8" SAE Nut - 5/8" Sq. U.SS Bolt - 3/8 x 6" Sq. Hd.U.SS	Nut - 3/8" U.SS. Nut - 1" Hex Jam SAE Nut - Hex 3/8 SAE Nut - 1/4" Hex. SAE Lockwasher 1/4 SAE Nuts - 1/2 Sq. US.S Bolt - Hex Head 1/2 x 1 SAE	Cerriage Bolts & Nuts 3/8 x 3 1/4" Plain Wesher 3/8 Cap Screw - Hub Cap 7/16 x 3/4 USS	Washer Hub Cap 7/16" L.W. JH Cotter Pin - Brake Wheel ShaftJH 1/4 x 2 1/2 Cap Screw 1/2 x 1 3/4 SAE JH
16T-2955 16T-2956 16T-2957 16T-2958	16T-2959 16T-2960 16T-2961 16T-2962	16T-2965 16T-2966 16T-2970	16T-2971 16T-2973 16T-2987 16T-2987 16T-2993 16T-2995	16T-2997 16T-3000 16T-3001	16T-3002 16T-3003 16T-3012

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Part No.	Part No. Part Name	Code	Code Part Number	Quan.	Page	Weight	Price
16T-3013	Cap Screw - Hub Cap & 3/8 x	胃	J-1166	ね	*	.034	.03
16T-3015	t & Nut	民	J-15410	17	*	.0143	.02
16T-3016	Cap Screw 3/8 x 1 1/4 Lg.SAE		1-10612	4	*	.0525	.02
16T-3020	Cotter Pin 3/16 x 2	_	2-4068	7	*	.0146	.01
16T-3022	Nut 5/8" - 18 Jem		J-2210	%	*	.10	70.
16T-3036	Nut Castle, Pawl Pin 3/4-	氏	J-2112	a	*	.10	80.
16T-3041	Washer 1-1/2" Plain	Ħ		1	*	.0833	70°
20 T- 4002	Axle Member Assembly (See page 119 for details of assembly)	SAC	FA-3½-72½	п	108	200.000	83.39
201-4003	Axle Bar - Trunnion Beam w/ Nuts & Bushing (See page 119 for details of assembly)	SAC		ભ	109	221.125	09.76
20T-4024	Bearing Ass'y - Cross Shaft outer	禺	4MT-1399-9	ભ	105	3.50	2.50
20T-4025	Bearing Ass'y - Cross Shaft Center (See page 119 for details of assembly)	F	4 MT- 1399-8	ત	105	1.50	7.69
20T-4026	Cone - Bearing	TIT	T-748-S	4	108	5.437	8.01
20T-4027	Cup - Bearing	TIT	T-742	4	106	2,312	4.07
20T-4028	U-Bolt	馬	2rtf-1439	4	103	3,687	.56
20T-4029	Centerbolt - & Nut Helper	馬		N	103	4	91.
20T-4030	Center bolt - & Nut Main	氏		~	103	ů.	.19
20T-4033 20T-4034	Bolt-Chamber Bracket 5/8x52USS Bolt-Rear Spring Hanger 3x43	号号	J-111044 J-12844	∞ №	108	. 656	81. 96.
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Mamifacturer Part Number	3MT-1503	TA-1010-1		BCB20	CSB-20	Н-2732	F-84.0	}						HC-75	T-3262-E-56	4MT-1516-6	4MT-1516-5		1MT-1405				3-401216	T-1107-C-29	UB-1106-1	TA-3219-R-1318	2MT-1511	D-F-3-4	G-73-5-7/8
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Part Name	Bracket - Cam Shaft	Bracket - Trunnion with Bushing	(See page 119 for details of assembly)	Bushing - Cam Shaft Bracket	Bushing - Cam Shaft	Bushing - Cross Shaft Inner	Bushing Cross Shaft Outer	Brg bunting	Cable 1/4 x 11'3" w/1/4 x 18	Lg. Chains and Cold Shut	Thimble & Cable Clamp.	(See page 119 for details	of assembly)	Hub Cap	Hub Cap	Chain $1/4 \times 44$ " Lg.	Cable Clamp Ass'y for 1/4"	Cable	Lower Tie Clip - Spring	Dust Collar	(See page 119 for details			Cover - Inspection Hole	Brake Drum	Brake Drum	Equalizer - Brake Lever	Felt - Dust Collar	Gasket - Hub Cap
Government Part No.	20T-4035	201-4037		20T-4038	20T-4039	20T-4040	201-4041		20T-4060					20T-4061	2907-102	20'i'-4063	20T-4066		201-4067	20ľ-4068		,	20T-4069	20T-4071	20T-4092	201-4093	20T-4120	2011-4140	20T-4160
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	Government Part No.	Part Name	Primary Code	Manufacturer Part Number	Quan.	Page	Unit Weight	Price
	20T-4161	Gasket - Hub Cap	SAC	T-2208-Y-77	77	107	6900	2
	20:r'-4130	Half Sphere	円	1MT-1510	1	105	125	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	201-4181	Bracket - Brake Chamber	JH	2MT-1502	· (\)	108	75,01	7
	20T-4185		号	2MT-1404	۸ ر	201	12.125	F 63
	201-4138	Hub & Cup Ass'y.	SAC	H-20	۰ د	35	1.8 75	0.6
		(See page 119 for details	•		2	2		3.4
		of assembly.)						
,	20T-4189	Hub & Cup Assembly	SAC	TA-333-E-447	7	107	٠ ا۲	7.7 80
		(See page, 119 for details			+	-	•	******
		of assambly.)						
_ 1	20T-4210	Lever	円	4MT-1399-2	-	105	15.	3.77
	201-4211	Anchor Fin Lock Screw Wire	E	T-11725	9	108	2900	;
	201'-4231	Nut - Axle		м-07601-х	~	108	2,375	
	20T-4233	Nut - Hex Jam 3/4 SAE		J-2212	ĩ C	105	0525	÷
	20T-4251	King Fin (Holland)	HIH	T-400	} ~	30	12,687) 6 - ~
	20T-4252	Pin-Lerer Snacket		1MT-1526-2	ı	105	281	3 5 5
	20T-4253	Yoke Pin (lass Cotterpins)5/8		4MT-1516-9	1 00	105	165	5
	20T-4254	Yoke Pin (less Cotterpins)3/4		4MT-1516-10	· ~	105		3 6
C	20T-4259	Serial Number Plate		2MT-1309)) ()	312) '
)ric	20T-4280	Brake Rod - Compression	ЭH	1MT-1512	۱ ۲	105	8.50	• 6 • 6
air	20T-4281	Brake Kod		1MT-1494-2	-4	105	3.25	30
al	20T-4282	Link - Long		4MT-1399-7	۰ ۸	105	7. 2.	3,50
frv	201'-4283	Link - Short		4MT-1399-6	8	105	2.625	10.6
on	20T-4284	nadius Rod		1MT-1437	. ~	103	8.875	3 !
1		(See page 119 for details			ı	ì)	3
	20T-4285	fo.	H	4MT-1399-13	-	105	19.	וג אנ
		(See page 119 for details			l		•	+7.04
	20T-4286	Cross Shaft Ass'y L.H.	旳	4MT-1399-12	7	105	19.	16.31
		(See page 120 for details			I	`	:	1
		of assembly.)						

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Government Part No.	Part Name	Primery Code	Manufacturer Part Number	Quen.	Page	Unit Weight	Price	144
20T-4310	Bolts - Trunnion Bracket 5/8 x 25AE	H	J-101020	16	109	.25	.10	
20T-4311	Brg. Mounting $1-1/2 \times 1/2$ SAE-Bolts	H	J-10814	12	* *	.125	•05	
20'r-4312	Bolts - Brg. Mounting $\frac{1}{2}$ x 1 1/4 SAE	田	J-10812	12	105	.111	•05	
20T-4313	Cap Screw 3/8 x 12 Lg. SAE	出	J-10614	~	*	.0586	.02	
20T-4315	Cap Screw - Inspection Hole Cover 3/8 x 1/2 USS	SAC	T-2X-19	9	106-107	.01694	•03	
20T-4316	Spring Seat	民	1MT-1406	ત્ય	103	7.625	98.9	
20T-4317	_	SAC	UB-5006-L1	8	109	4.750	11.90	
20T-4318	Cam Shaft Assembly R.H.Rear	SAC	UB-5006-R1	~	109	4.750	11.90	
20T-4324		H	1MT-1440	N	103	2,125	1.32	
20T-4325	Upper Tie Clip - Spring	胃	Tr-1454	N	103	3.50	5 .8	
20T-4327	Helper Spring	号	2MT-1419	7	103	29.50	97.9	
20T-4329	Main Spring	円	3MT-1420	8	103	98.	13.80	_
20T-4350	Thimble for 1/4 Cable	Ħ	4MT-1516-2	ત	105	.031	97.	
20T-4351	Tire 12.00/20 - 14 Ply FL			4	106	183,25	*	
20T-4352	Tube Inner 12.00/20			7	901	21.062	*	-
20T-4371	Wheel Assembly - Front (Budd) BW 20 x 9-10 Rim) BM	B-45530	4	901	06	25.20	
20T-4373	Spindle Nut Wrench - Front	MM	W-1545	~	112	5.50	1.44	
20T-4390	ble	吊	4MT-1516-7	7	105	.75	87.	
20T-4391	Yoke End - Adjustable 3/4	Ħ	4MT-1516-8	8	105	1.50	9.	
20T-4610		WEB	W-3737	т	100	3.125	96.6	
	of assembly)							
20T-4900	Slack Adjuster - Front Axle (See page 120 for details of assembly)	BWE	217900	ત	92-108	4.887	4.40	CAIAL
20T-4901	Sla Pric	BWE	221533	4	92-109	4.125	7.40	

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Unit		2.5	2.5	.021	9.50		22.25		1.50	2.00	.187	.187	1.	3.50	43.50	6.50	.50	.0415	1.312	20.71		21.844	5.063	1.656	.0342
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Manufacturer Part Number		212704	230147	211573	221464		220241		205347	220274	202941	201954	IMT-1532	IMT-1431	2-x-18	2MT-1522	1MT-1523	J-1067	1MT-1675-1	011			112	113	114 115
Primery Code		是	BAR	BWE	BATE		HA		EME	EAR	BAR		呂	円	IIB	円	片	吕	片	e HIH		HIH	HIH	HIH	HIH
Part Name	(See page 120 for details of assembly)	Body - Slack Adjuster	Body - Slack Adjuster	Bushing $5/8$ ID x $3/4$ OD x $1/2$ Lg.	Brake Typ	Axle) (See page 121 for details of assembly)	Chamber, Brake, Type F Rear	(See page 121 for details of assembly)	Rod, Push Type B Front	Rod, Push Type F Rear	Stud Type B-Front	Stud Type F-Rear	Tail Light Bracket (Export)	Pins - Screw Jack	Screw Jack	Top Brg. Screw Jack		Cap Screw $3/8 \times 7/8 \text{ SAE}$	Chains with Snap-Jack Screw JH	1/4 X 72 LB. t A 72 Assembly Pintle Hook Complet	(See page 121 for details	Hook, Forged	Lock, Pintle	Latch, Pintle	Pin, 7/8" x 2 1/2" Capacrew, 5/16" - 24 x 14"
Government Part No.		20T-4921	20T-4922	20T-4923	20T-4940		20T-4941		20T-4960	20T-4961	20T-4981	20T-4982	20T-5001	20T-5002	20T-5003	20T-5004	20T-5005	20T-5006	20T-5007	2007-1008		20T-5009	20T-5010	20T-5011	20T-5012 20T-5013

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Manufacturer Part Number	117	118	120	121	122	123	T-9N	126	127	128	2MT-1528	J-101220		4MT-1476-2	4MT-1476-1	IMT-1521	J-2120	1-4048	1MT-1493-3	1226-36			1227-36	1005-FL	1006	1007	1016	1102-A	1103-B	7011	1011
Primary Code		HH	HIH	HTH				HIH		HIH	馬	片	吕	禺	片	民	円	馬	片	HIH			HIH	HIH	HTH	HIH	HIH	HTH	HTH	HIH	HIH
Fert Name	Spring, Latch	1/8"	Nut, Slotted, Jam, 1" SAE 1120	Cotter,	Sleeve	Spring, 2 3/8" ID x 7 1/4"	Nut, Slotted Hex, $11/2^{n}-6$	Chain, 16 Links	Link, "S"	Screw, Drive #10 x 1/2"	Bearing Plate - Pintle Hook	Bolts - Hex Hd. 3/4x2" Lg.SAE	Handles - Screw Jack	Front Hanger R.H Spring	Front Hanger L.H Spring	Bolt - Drawbar Hinge	Nuts - Castle, 1 1/4" SAE	Cotter Pin 1/8 x 2" Lg.	Spacer - Rear Spring Hanger	Fifth Wheel Assembly	(See page 122 for details	of assembly)	Wheel Plate	Lever - Forged	Spring - Sliding Lock	Spring - Plunger Lock	Hinge Lock Pin	Hinged Lock	Sliding Lock	Plunger Lock	Rubber Cushin Lever
Government Part No.	20T-5014	20T-5015	20T-5016	20T-5017	20T-5018	20T-5019	20T-5020	20T-5021	20T-5022	20T-5023	20T-5028	20T-5029	20T-5030	20T-5031	20T-5032	20T-5033	20T-5034	20T-5035	20T-5036	20T-5037			20T-5038	20T-5039	20T-5040	20T-5041	20T-5042	20T-5043	20T-5044	20T-5045	20T-5046

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-5047	Rivet 3/8 x l	HIH	1107	н	104	.0586	50.
20T-5057	Bolts - Hex Hd. 5th Wheel 5/8 x 1 1/2 SAE	Ë	J-101014	77	104	&	80.
20T-5058	Neme Plate - Dolly	円	2MT-1520	н	113	8.	79.
20T-5059	Drawbar Assembly	馬	4MT-1501	-1	107	142,125	18.97
	(See page 122 for details				•		•
	of assembly)						
20T-5060	Hinge - L.H.	民	2MT-1477-1	7	107	8.937	7.53
20T-5061	Hinge - R.H.	民	2MT-1477-2	7	701	8.937	7.53
r - 5063	Draw Bar Lock Pin	氏	1MT-1434	~	701	2.75	333
7905-1	Lock Pin Handle	円	1MT-1435	ત્ય	701	53.	1.16
20T-5065	Bushing - Hinge Pin	BBB	EC-839	ď	107	.187	76.
1-5066	Hose, Assembly	BWE	215592	٦	23	3.75	7.48
	(See page 122 for details						
	of assembly)				,		
20T-5067	Cut Out Cock	BWE	217799	٦	46	1.812	2.46
20T-5068	Hose Suspension Spring	BWE	200661	٦		.25	.26
6905-	Bracket	BWE	212227	7		.50	97.
20T-5070	Stove Bolts & Nuts	丐	J-1557	8	*	.037	.02
	$5/16 \times 7/8 \text{ Lg}$.						
20T-5071	Cap Screw 5/16 x 1 1/8 Lg.SAE		J-10511	8	*	.0555	.02
20T-5072	Nut - Hex $5/16$ SAE		J-205	7	*	9800.	<u>.</u>
20T-5073	Cap Screw 3/8 x 3/4 Lg. SAE	-	7-1066	4	*	.0357	•05
20T-5074	Hand wheel & Shaft Ass'y	出	2MT-1515	٦	105	22.000	14.80
	W/Ratchet (See page 122						
20T-5075	L	馬	7-10840	7	105	. 250	90.
20T-5076	Spare Tire Carrier - L.B.	NAS	SWA-T-12-10-JT	٦	77	41.625	13.40
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	details of assembly.)						

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Manufacturer Part Number	UAS-10	»: -6-L	T-10	T-4W-10	T-15	51322 Douglas	2208 Douglas	37891	4MT-1399-1		UB-1135	212324								22174		230108	230111	230109
Primary Code	NAS	NAS	NAS	NAS	NA ⁵	MQ	DM	BW	片		SFA	B.VE	出	号	丐	丐	H			BWE		RWIE	SWE	HWE
Part Name	Main Member Unit	Securing Stud with Locknuts	Safety Nut	Pick-Up Member	Cotter Pin	Snap Terminal	Sleeve Connector	Rim Tool	Equalizer - Long	Flap - 12.00 x 20	Pan - Rear Splash	Nipple - Close 1/2" Galv.	$Chain - 1/4" \times 18"$	Cold Shut - 1/4" Chain	Cable $1/4$ " x $11'3$ "	asher, Plain 3/16"	washer Plain, 1 1/4 ID	h	<pre>"asher, Plain, 1 1/4 ID "</pre>	Filter - Type 'E'	(See page 123 for de-	Cover - Filter	Plug - Drain	Gasket - Cover
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Government Part No.	Part Name	Primery Code	Manufacturer Part Number	Quen.	Page	Unit Weight	Price
	(See page 120 for details of assembly)						
201-702	Body - Slack Ad juster	BME	212704	N	45	2,5	5.22
20T-1922	Body - Slack Adjuster	E. E.	230177	· 4	92	\ i<	00
20T-4923	Bushing 5/8 ID x 3/4 OD x	340	211573	4	25	.021	.12
20T-4940	Chamber, Brake Type B (Front Axle) (See page 121 for	BWE	221464	8	16	9.50	12.90
20T-4941	details of assembly) Chember, Brake, Type F Rear (See page 121 for details	EAR EAR	220241	8	91	22.25	21.60
	of assembly)						
20T-4960	Rod, Push Type B Front	BWE	205347	ď	91	1.50	2.32
20T-4961	Rod, Push Type F Rear	EME	220274	α	16	2.00	3.38
20T-4981	Stud Type B-Front		202941	4	16	.187	.24
20T-4982	Stad Type F-Rear	BANE	201954	4	16	. 187	.34
20T-5001	Tail Light Bracket (Export)	片	IMT-1532	ત્ય		٦,	1.00
20T-5002	Pins - Screw Jack	民	1MT-1431	ત્ય	112	3.50	2.13
20T-5003	Screw Jack	IIB	2-x-18	œ	211	43.50	17.50
20T-5004	Top Brg. Screw Jack	号	2MT-1522	ď	211	6.50	7.83
20T-5005	Half Collar	出	1MT-1523	7	112	.50	2.17
20T-5006	Cap Screw 3/8 x 7/8 SAE	氏	1-1067	₩	211	.0415	.05
20T-5007	Chains with Snap-Jack Screw 1/4 x 93 Lg. 1 x 93	E,	IMT-1675-1	ત્ય	211	1.312	1.10
20T-5008	Assembly, Pintle Hook, Complete HIH (See page 121 for details of assembly)	е нтн	110	ч	110	47.25	19.40
20T-5009 20T-5010	Hook, Forged Lock, Pintle	HIH	111	н н	011	21.844	13.91
20T-5011	Latch, Pintle	HH	113	н.	011	1.656	1.63
20T-5012 20T-5013	Fin, //8" x ≤ 1/2" Capacrew, 5/16" - 24 x 1¼"		115	- -	91	0342	

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Price	7.	1.68	21.	11.	70.7	2.36	.74	11.	.01	.01	4.27	.13	1.65	16.43	16.43	4.15	.31	.01	.20	51.60			48.75	3.68	.21	27.	1.26	3.94	3.94	2.31	•05
Unit Weight	.028	1.75	.143	.0382	7.000	7.250	.562	.062	.010	.0525	.0586	.0466	4.375	29.50	29.50	໙	<u>چ</u>	. 006 4	.187	225.00			211.75	3.25	.312	.125	.937	2.875	3,125	3.250	.0156
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Manufacturer Part Number	2117	118	120	121	122	123	T-9N	126	127	128	2MT-1528	J-101220		4MT-1476-2	4MT-1476-1	1MT-1521	J-2120	1-4048	1MT-1493-3	1226-36			1227-36	1005-FL	1006	1007	1016	1102-A	1103-B	1104	1011
Primary Code	HILE	HH	HIH	HIH	HIH	HIH	HTH	HIH	HIH	HTH	馬	氏	片	吕	片	吕	巴	片	吕	HTH			HH	HTH	田田	HIH	HIH	田田	田田	田田	HIH
Part Name	Spring, Latch	1/8 4	Nut, Slotted, Jam, 1" SAE 1120	Pin, Cotter, $1/4^n \times 3^n$	Sleeve	Spring, 2 3/8" ID x 7 1/4"	Nut, Slotted Hex, 1 1/2" - 6	Chain, 16 Links	Link, "S"	Screw, Drive #10 x 1/2"	Bearing Plate - Pintle Hook	Bolts - Hex Hd. 3/4x2"Lg.SAE	Handles - Screw Jack	Front Hanger R.H Spring	Front Hanger L.H Spring	Bolt - Drawbar Hinge	Nuts - Castle, 1 1/4" SAE	Cotter Pin 1/8 x 2" Lg.	Spacer - Rear Spring Hanger	Fifth Wheel Assembly	(See page 122 for details	of assembly)	Wheel Plate	Lever - Forged	Spring - Sliding Lock		Hinge Lock Pin	Hinged Lock	Sliding Lock	Plunger Lock	Rubber Cushin Lever
Government Pert No.	20T-5014	20T-5015	20T-5016	20T-5017	20T-5018	20T-5019	20T-5020	20T-5021	20T-5022	20T-5023	20T-5028	20T-5029	20T-5030	20T-5031	20T-5032	20T-5033	20T-5034	20T-5035	20T-5036	20T-5037			20T-5038	20T-5039	20T-5040	20T-5041	20T-5042	20T-5043	20T-5044	20T-5045	20T-5046

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Government Part No.	Part Name	Primery Code	Manufacturer Part Number	Quen.	Page	Unit Weight	Price
20T-5047	Rivet 3/8 x l	HIH	1107	ч	107	.0586	30°
20T-5057	Bolts - Hex Hd. 5th Wheel 5/8 x 1 1/2 SAE	Ë	J-101014	71	104	&	80.
20T-5058	Name Plate - Dolly	E	2MT-1520	4	113	55	79.
20T-5059	Drawbar Assembly	Ħ	4MT-1501		701	142,125	18.97
	(See page 122 for details				•		
0702	/ STOWNSON TO	į		•			
20T-5060	Hinge - L.H.	H	2Mr-1477-1	-4	107	8.937	7.53
20T-5061	Hinge - R.H.	吕	2MT-1477-2	٦	701	8.937	7.53
20T-5063	Draw Bar Lock Pin	民	1MT-1434	ď	701	2.75	33
20T-5064	Lock Pin Handle	民	1MT-1435	8	701	8.	1.16
20T-5065	Bushing - Hinge Pin	BBB	EC-839	N	701	.187	76
20T-5066	Hose, Assembly	BWE	215592	٦	93	3,75	7.48
	(See page 122 for details				•		•
	of assembly)						
20T-5067	Cut Out Cock	BWE	217799	٦	64	1,812	2.46
20T-5068	Hose Suspension Spring	BWE	200661	٦		.25	.26
20T-5069	Bracket	BWE	212227	7		.50	97.
20T-5070	Stove Bolts & Nuts	出	J-1557	8	*	.037	C
	$5/16 \times 7/8 \text{ Lg.}$!		•	
20T-5071	Cap Screw 5/16 x 1 1/8 Lg.SAE	出出	J-10511	8	*	.0555	•05
20T-5072	Nut - Hex 5/16 SAE		J-205	8	*	9800.	.01
20T-5073	Cap Screw 3/8 x 3/4 Lg. SAE	ቼ	J-1066	4	*	.0357	0.0
20T-5074	Hand wheel & Shaft Ass'y	丐	2MT-1515	· ન	105	22.000	14.80
	<pre>w/Ratchet (See page 122 for details of assembly.)</pre>				•		
201-5075	Bolt - Hex Hd. Brg. Brk. Mount. 1/2 x 4 SAE	H	J-10840	N	105	. 250	•08
201-5076	т,	NAS	SWA-T-12-10-JT	Н	77	41.625	13.40
	Nash (See page 126 for details of assembly.)						

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| 117 | 118 | 120 | 121 | 122 | 123 | T-9N | 126 | 127 | 128 | 2MT-1528 | J-101220 | | 4MT-1476-2
 | 4MT-1476-1 | IMT-1521

 | J-2120 | J-4048 | 1MT-1493-3 | 1226-36 |
 | , | 1227-36 | 1005-FL | 1006
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 | 1102-A | 1103-B | 1104 | 1011 |
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| Spring, Latch | Bolt, 1" x 3 7/8" | Slotted, | Cotter, | Sleeve | | | 16 Link | иSи | Drive # | Bearing Plate - Pintle Hook | Bolts - Hex Hd. 3/4x2"Lg.SAE | Handles - Screw Jack | Front Hanger R.H Spring
 | Front Hanger L.H Spring | Bolt - Drawbar Hinge

 | Nuts - Castle, 1 1/4" SAE | Cotter Pin 1/8 x 2" Lg. | Spacer - Rear Spring Hanger | Fifth Wheel Assembly | (See page 122 for details
 | of assembly) | Wheel Plate | Lever - Forged |
 | Spring - Plunger Lock | Hinge Lock Pin
 | Hinged Lock | Sliding Lock | Plunger Lock | Rubber Cushin Lever |
| 20T-5014 | 20T-5015 | 20T-5016 | 20T-5017 | 20T-5018 | 20T-5019 | 20T-5020 | 20T-5021 | 20T-5022 | 20T-5023 | 20T-5028 | 20T-5029 | 20T-5030 | 20T-5031
 | 20T-5032 | 20T-5033

 | 20T-5034 | 20T-5035 | 20T-5036 | 20T-5037 |
 | | 20T-5038 | 20T-5039 | 20T-5040
 | 20T-5041 | 20T-5042
 | 20T-5043 | 20T-5044 | 20T-5045 | 20T-5046 |
| | Spring, Latch HIH 117 1 110 | Spring, Latch HIH 117 1 10 .028 Bolt, 1" x 3 7/8" HIH 118 1 110 1.75 1 | Spring, Latch HIA 117 1 110 .028 Bolt, 1" x 3 7/8" HIA 118 1 110 1.75 1 Nut, Slotted, Jsm, 1" SAE 1120 HIA 120 1 110 .143 | Spring, Latch HIH 117 1 110 .028 Bolt, 1" x 3 7/8" HIH 118 1 110 1.75 1 Nut, Slotted, Jsm, 1" SAE 1120 HIH 120 1 110 .143 Pin, Cotter, 1/4" x 3" HIH 121 2 110 .0382 | Spring, Latch HIH 117 1 110 .028 Bolt, 1" x 3 7/8" HIH 118 1 110 1.75 Nut, Slotted, Jem, 1" SAE 1120 HIH 120 1 110 .0382 Pin, Cotter, 1/4" x 3" HIH 121 2 110 .0382 Sleeve HIH 122 2 110 4.000 | Spring, Latch HIH 117 1 110 .028 Bolt, 1" x 3 7/8" HIH 118 1 110 1.75 Nut, Slotted, Jam, 1" SAE 1120 HIH 120 1 110 .143 Pin, Cotter, 1/4" x 3" HIH 121 2 110 .0382 Sleeve HIH 122 2 110 4.000 Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 7.250 | Spring, Latch Bolt, 1" x 3 7/8" Nut, Slotted, Jem, 1" SAE 120 HIH 120 Pin, Cotter, 1/4" x 3" HIH 121 Sleeve Spring, 2 3/8" ID x 7 1/4" Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .028 1 110 1.75 1 110 | Spring, Latch HIA 117 1 110 .028 Bolt, 1" x 3 7/8" HIA 118 1 110 1.75 Nut, Slotted, Jsm, 1" SAE 1120 HIA 121 2 110 .0382 Pin, Cotter, 1/4" x 3" HIA 122 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIA 123 1 110 7.250 Nut, Slotted Hex, 1 1/2" - 6 HIA 126 1 110 .562 Chein, 16 Links HIA 126 1 110 .062 | Spring, Latch HIH 117 1 110 .028 Bolt, l" x 3 7/8" HIH 118 1 110 1.75 Nut, Slotted, Jem, l" SAE 1120 HIH 121 2 110 .0382 Pin, Cotter, 1/4" x 3" HIH 121 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 7.250 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .562 Chain, 16 Links HIH 126 1 110 .062 Link, "S" HIH 127 1 110 .010 | 5014 Spring, Latch 5015 Bolt, l" x 3 7/8" 5016 Nut, Slotted, Jem, l" SAE 1120 HIH 1120 5017 Pin, Cotter, 1/4" x 3" HIH 121 5017 Pin, Cotter, 1/4" x 3" HIH 122 5018 Sleeve 5019 Spring, 2 3/8" ID x 7 1/4" HIH 123 5020 Nut, Slotted Hex, l 1/2" - 6 HIH 123 5021 Chein, 16 Links FILM 126 5022 Link, "S" FILM 127 FILM 128 FI | 5014 Spring, Latch HIH 117 Bolt, l" x 3 7/8" HIH 118 III 110 .028 IIII 1.75 5016 Nut, Slotted, Jsm, l" SAE 1120 HIH 121 5017 Pin, Cotter, l/4" x 3" HIH 122 5018 Sleeve 5019 Spring, 2 3/8" ID x 7 1/4" HIH 123 5020 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 5021 Chein, l6 Links HIH 126 5022 Link, "S" HIH 127 5022 Link, "S" HIH 128 1 110 .010 5025 5028 Beering Plate - Pintle Hook JH 2MT-1528 1 100 .0525 | 5014 Spring, Latch 5015 Bolt, l" x 3 7/8" HIH 118 110 1.75 5016 Nut, Slotted, Jem, l" SAE 1120 HIH 120 5017 Pin, Cotter, 1/4" x 3" HIH 121 5018 Sleeve 5019 Spring, 2 3/8" ID x 7 1/4" HIH 122 5020 Nut, Slotted Hex, 1 1/2" - 6 HIH 123 5021 Chain, 16 Links 5022 Link, "S" HIH 126 5023 Screw, Drive #10 x 1/2" HIH 126 5024 Solve Beering Plate - Pintle Hook JH 2MT-1528 1 110 1062 1062 1062 1063 1062 1063 1063 1063 1063 1063 1063 1063 1063 1063 1063 1063 1063 1063 1063 1063 1064 1063 1064 1064 1075 10 | 5014 Spring, Latch Bolt, I" x 3 7/8" Bolt, I" x 3 7/8" HIH 118 118 110 .028 5015 Nut, Slotted, Jem, I" SAE 1120 5017 Pin, Cotter, 1/4" x 3" HIH 121 5018 Sleeve 5019 Spring, 2 3/8" ID x 7 1/4" HIH 122 5020 Nut, Slotted Hex, 1 1/2" - 6 HIH 1-9N 5021 Chain, 16 Links 5022 Link, "S" HIH 126 5023 Screw, Drive #10 x 1/2" HIH 128 5028 Beering Plate - Pintle Hook JH 2MT-1528 5029 5029 Bolts - Hex Hd. 3/4x2"Ig.SAE JH J-101220 5030 Hendles - Screw Jack JH 1-101220 5030 Hendles - Screw Jack JH 1-101220 5030 Hendles - Screw Jack JH 1-101220 | 5014 Spring, Latch Bolt, l" x 3 7/8" HIH 118 HIH 118 110 1.75 5015 Bolt, l" x 3 7/8" HIH 120 5016 Nut, Slotted, Jem, l" SAE 1120 5017 Pin, Cotter, 1/4" x 3" HIH 121 5018 Sleeve 5019 Spring, 2 3/8" ID x 7 1/4" HIH 122 5020 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 5021 Chein, 16 Links HIH 126 5022 Link, "S" HIH 126 5023 Screw, Drive #10 x 1/2" HIH 128 5028 Beering Plate - Pintle Hook JH 2MT-1528 5029 Bolts - Hex Hd. 3/4x2" Ig.SAE JH J-101220 5030 Hendles - Screw Jack JH 4MT-1476-2 1 103 29.50 1 | Spring, Latch HIH 117 1 10 .028 Bolt, I" x 3 7/8" HIH 118 1 10 1.75 Nut, Slotted, Jem, I" SAE 1120 HIH 122 2 110 .0382 Sleeve HIH 122 2 110 .0382 Sleeve HIH 122 2 110 .0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0382 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .562 Chein, 16 Links HIH 126 1 110 .062 Link, "S" HIH 127 1 110 .062 Screw, Drive #10 x 1/2" HIH 128 1 110 .0525 Beering Plate - Pintle Hook JH 2MT-1528 1 110 .0466 Handles - Screw Jack JH 4 ** .0466 Hendles - Screw Jack JH 4MT-1476-2 1 103 29.50 1 Front Henger L.H Spring JH 4MT-1476-1 <td< td=""><td>Spring, Latch HIH 117 1 100 .028 Bolt, I" x 3 7/8" HIH 118 1 110 1.75 Nut, Slotted, Jam, I" SAE 1120 HIH 121 2 110 .143 Pin, Cotter, 1/4" x 3" HIH 121 2 110 .0362 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0362 Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0562 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .062 Chain, 16 Links HIH 126 1 110 .062 Link, "S" HIH 126 1 110 .062 Screw, Drive #10 x 1/2" HIH 128 1 110 .0525 Bolts - Hex Hd. 3/4x2"Lg.SAE JH J-101220 4 ** .0466 Handles - Screw Jack JH J-101220 4 ** .0466 Front Hanger L.H Spring JH JMT-1476-1 1 103 29.50 1 Bolt - Draw</td><td>Spring, Latch HIH 117 1 1028 Bolt, 1" x 3 7/8" HIH 118 1 10 1.75 Nut, Slotted, Jem, 1" SAE 1120 HIH 120 1 110 1.43 Pin, Cotter, 1/4" x 3" HIH 121 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 1 10 .0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 1 110 .0562 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .562 Chain, 16 Links HIH 126 1 110 .062 Link, "S" HIH 126 1 110 .062 Screw, Drive #10 x 1/2" HIH 127 1 10 .0525 Besting Plate - Pintle Hook JH J-101220 4 *** .0466 Bolts - Hex Hd. 3/4x2"Ig.SAE JH J-101220 4 *** .0466 Front Hanger R.H Spring JH JHM-1476-1 1 103 29.50 1 Front Han</td><td>5014 Spring, Latch HIH 117 1 100 .028 5015 Bolt, l" x 3 7/8" HIH 118 1</td><td>Spring, Latch HIH 117 1 110 .028 Bolt, I" x 3 7/8" HIH 118 1 10 1.75 Nut, Slotted, Jem, I" SAE 1120 HIH 120 2 110 1.75 Pin, Cotter, 1/4" x 3" HIH 122 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 1 110 .0552 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .7.250 Ink, "S" HIH 126 1 110 .7.250 Link, "S" HIH 126 1 110 .062 Screw, Drive #10 x 1/2" HIH 127 1 110 .056 Bolts - Hex Hd. 3/4x2" Ig.sAE JH J-101220 4 ** .046 Hondles - Screw Jack JH J-101220 2 102 .2 .046 Front</td><td>Spring, Latch HIH 117 1 10028 Bolt, 1" x 3 7/8" HIH 118 1 10 1.75 Nut, Slotted, Jem, 1" SAE 1120 HIH 120 1 110 1.75 Pin, Cotter, 1/4" x 3" HIH 121 2 110 0.0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 0.0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 1 110 0.0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 1 110 0.0525 Spring, 2 3/8" ID x 7 1/4" HIH 124 1 110 0.0525 Chain, 16 Links HIH 126 1 110 0.0525 Link, "S" HIH 127 1 110 0.0525 Bearing Plate - Pintle Hook JH 2 1 110 0.0525 Bolts - Hex Hd. 3/4x2"Lg.SAE JH J-101220 4 *** 0.466 Hendles - Screw Jack JH J-101220 4 *** 0.466 Front Hanger L.H Spring JH</td><td>Spring, Latch Bolt, 1" x 3 7/8" HIH 118 HIH 118 HIH 118 HIM 120 Nut, Slotted, Jem, 1" SAE 1120 Steeve Spring, 2 3/8" ID x 7 1/4" HIH 121 Spring, 2 3/8" ID x 7 1/4" HIH 122 Spring, 2 3/8" ID x 7 1/4" HIH 122 Spring, 2 3/8" ID x 7 1/4" HIH 122 Spring, 1 Links HIH 124 1 110 1 100</td><td>Spring, Latch Bolt, 1" x 3 7/8" HIH 118 Bolt, 1" x 3 7/8" HIH 120 Nut, Slotted, Jam, 1" SAE 1120 Sheave Spring, 2 3/8" ID x 7 1/4" HIH 121 Spring, 2 3/8" ID x 7 1/4" HIH 122 Spring, 2 3/8" ID x 7 1/4" HIH 122 Chain, 16 Links Link, "S" HIH 127 Link, "S" HIH 127 Link, "S" HIH 127 Link, "S" HIH 127 Link, "S" HIH 128 Bearing Plate - Pintle Hook HIH 128 Bearing Plate - Pintle Hook HIH 128 Bearing Plate - Pintle Hook HIH 128 HIH 128 Bearing Plate - Pintle Hook HIH 128 Bearing Plate - Pintle Hook HIH 128 Bearing Plate - Pintle Hook HIH 128 HIM 127 Link, "S" Strow, Drive #10 x 1/2" of #14 128 HIM 127 Link, "S" Nuts - Castle, 11/4" SAE HIM 128 Bolt - Drawbar Hinge HIM 125-120 Cotter Pin 1/8 x 2" Lg. HIM 125-36 Cotter Pin 1/8 x 2" Lg. HIM 125-36 Cotter Pin 1/8 x 2" Lg. HIM 1225-36 Link, "S" Link</td><td>Spring, Latch Bolt, l" x 3 7/8" Nut, Slotted, Jem, l" SAE 1120 Nut, Slotted, Jem, l" SAE 1120 Spring, 2 3/8" ID x 7 1/4" High 122 Sheer Spring, 2 3/8" ID x 7 1/4" High 122 Spring, 2 3/8" ID x 7 1/4" High 122 Chain, 16 Links Link, "9" Screw, Drive #10 x 1/2" High 126 Sories, Drive #10 x 1/2" High 126 Sories, Drive #10 x 1/2" High 126 Bolts - Hax Hd. 3/4x2"Le.SAE JH J-101220 Handles - Screw Jack Handles - Handles -</td><td>Spring, Latch HIH 117 1 110 .028 Bolt, 1" x 3 7/8" HIH 118 1 110 1.75 Nut, Slotted, Jsm, 1" SAE 120 HIH 120 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0562 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .062 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .062 Link, "S" HIH 126 1 110 .062 Link, "S" HIH 126 1 110 .062 Link, "S" HIH 126 1 10 .062 Bolts - Hex Hd. 3/4x2"Ig.SAE JH 2MT-1476-2 1 103 29.50 1 Hendles - Screw Jack JH 1-10220 2 104 2.75 1 Front Henger L.H Spring JH 1-1046-1 2 104 2.70 1 <td>Spring, Latch HIH 117 1 10 .028 Bolt, l" x 3 7/8" HIH 118 1 10 1.75 Nut, Slotted, Jsm, l" SAE 112 HIH 121 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 123 2 110 .0362 Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 .0362 Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 .0362 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .0562 Chain, 16 Links HIH 126 1 110 .0562 Link, "S" HIH 126 1 110 .0562 Link, "S" HIH 127 1 110 .0562 Bearing Plate - Pintle Hook JH 2xT-1528 1 110 .0562 Bolts - Hex Hd. 3/4z2"Lg.SAE JH J-101220 4 *** .0466 Front Henger LH Spring JH J-7120 2 104 .064 Specar <</td><td>Spring, latch Bolt, l" x 3 7/8" Nut, Slotted, Jam, l" SAE 112 Nut, Slotted, Jam, l" SAE 112 Pin, Cotter, 1/4" x 3" Hill 118 110 1.75 Pin, Cotter, 1/4" x 3" Hill 122 Sleave Spring, 2 3/8" ID x 7 1/4" Hill 122 Spring, 2 3/8" ID x 7 1/4" Hill 122 Spring, 2 3/8" ID x 7 1/4" Hill 122 Chain, lo Links Hill 124 Screw, Drive #10 x 1/2" Hill 126 Link, "S" Bearing Plate - Pintle Hook Hill 126 Bolts - Hear Hd. 3/4x2"1g.SAE Hill 126 Bolts - Hard Hear Front Hanger R.H Spring Hill 127 Front Hanger R.H Spring Bolt - Drawbar Hinge Bolt - Drawbar Hinge Cotter Pin 1/8 x 2" Lg. Nuts - Castle, 1 1/4" SAE Speece - Rear Spring Hanger Hill 1226-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hanger Hill 1226-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Nuts - Castle, 1 1/4" SAE Speece - Rear Spring Hill 1226-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/4" SAE Specece - Rear Spring Hill 1227-36 Cotter Pin 1/4" SAE Specece - Rear Spring Hill 1006 Cotter Pin 1/4" SAE Spring - Sliding Lock Hill 1006 Spring - Sliding Lock Hill 1007 Cotter Pin 104 Cotter</td><td>Spring, Latch Bolt, 1" x 3 7/8" Nut, Slotted, Jam, 1" SAE 1120 Fig. 1121 Fig. 1101 Fig. 1102 Fig. 1103 Fig. 1103 Fig. 1104 Fig. 1104 Fig. 1105 Fig. 1105</td><td>Spring, Latch Bolt, I" x 3 7/8" Nut, Slotted, Jam, I" SAR 128 Nut, Slotted, Jam, I" SAR 128 Pin, Cotter, 1/4" x 3" Hill 122 Sleeve Spring, 2 3/8" ID x 7 1/4" Hill 122 Spring, 2 3/8" ID x 7 1/4" Hill 123 Spring, 2 3/8" ID x 7 1/4" Hill 123 Spring, 2 3/8" ID x 7 1/4" Hill 124 Spring, 2 3/8" ID x 7 1/4" Hill 125 Link, "S" Screw, Drive #ID x 1/2" Hill 126 Link, "S" Hill 127 Screw, Drive #ID x 1/2" Hill 126 Boering Plate - Pintle Hook Hill 127 Screw, Drive #ID x 1/2" Hill 126 Bolts - Hax Hd. 3/42" E.SAR Hill 127 Front Hanger Front Hanger Nuts - Castle, I 1/4" SAR Spring - Spring Hanger O(See page 122 for details O(See page 122 for detai</td><td>Spring, Latch HIH 117 1 100 .028 Bolt, 1" x 3 7/8" HIH 118 1 110 .145 Nut, Slotted, Jem, 1" sAE 112 HIH 122 1 110 .145 Spring, 2 3/8" ID x 7 1/4" x 3" HIH 122 1 1 .0562 Spring, 2 3/8" ID x 7 1/4" HH 123 1 110 .0562 Nut, Slotted Hax, 1 1/2" - 6 HIH 123 1 110 .0562 Chain, b Links HIH 126 1 110 .0562 Link, "S" HIH 127 1 110 .0562 Boits - Hax Hoser HIH 127 1 110 .0562 Boits - Hax Hoser R.H Spring JH 2MT-1476-2 1 103 29.50 1 Front Hanger R.H Spring JH JT-1220 L *** .0566 Boit - Derwher Hanger R.H Spring JH JT-2120 L *** .056 Cotter Pin 1/8 x 2" Lg.</td><td>Spring, Latch HIH 117 1 100 .028 Bolt, l" x 3 7/8" HIH 118 1 110 .175 Nut, Slotted, Jem, l" SAE 112 HIH 122 1 10 .032 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 1 10 .032 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 .032 Nut, Slotted Hex, 1 1/2" - 6 HIH 123 1 110 .056 Ink, "S" HIH 127 1 110 .056 Ink, "S" HIH 127 1 110 .056 Screw, Drive Hotes JH 7-101220 4 *** .0466 Boite - Hax Hd. 3/4x2"Lg.SAE JH 7-101220 4 *** .0466 Boite - Hax Hd. 3/4x2"Lg.SAE JH 7-101220 4 *** .0466 Front Hanger L.H Spring JH 17-104-2 1 10 2. Front Hanger L</td></td></td<> | Spring, Latch HIH 117 1 100 .028 Bolt, I" x 3 7/8" HIH 118 1 110 1.75 Nut, Slotted, Jam, I" SAE 1120 HIH 121 2 110 .143 Pin, Cotter, 1/4" x 3" HIH 121 2 110 .0362 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0362 Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0562 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .062 Chain, 16 Links HIH 126 1 110 .062 Link, "S" HIH 126 1 110 .062 Screw, Drive #10 x 1/2" HIH 128 1 110 .0525 Bolts - Hex Hd. 3/4x2"Lg.SAE JH J-101220 4 ** .0466 Handles - Screw Jack JH J-101220 4 ** .0466 Front Hanger L.H Spring JH JMT-1476-1 1 103 29.50 1 Bolt - Draw | Spring, Latch HIH 117 1 1028 Bolt, 1" x 3 7/8" HIH 118 1 10 1.75 Nut, Slotted, Jem, 1" SAE 1120 HIH 120 1 110 1.43 Pin, Cotter, 1/4" x 3" HIH 121 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 1 10 .0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 1 110 .0562 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .562 Chain, 16 Links HIH 126 1 110 .062 Link, "S" HIH 126 1 110 .062 Screw, Drive #10 x 1/2" HIH 127 1 10 .0525 Besting Plate - Pintle Hook JH J-101220 4 *** .0466 Bolts - Hex Hd. 3/4x2"Ig.SAE JH J-101220 4 *** .0466 Front Hanger R.H Spring JH JHM-1476-1 1 103 29.50 1 Front Han | 5014 Spring, Latch HIH 117 1 100 .028 5015 Bolt, l" x 3 7/8" HIH 118 1 | Spring, Latch HIH 117 1 110 .028 Bolt, I" x 3 7/8" HIH 118 1 10 1.75 Nut, Slotted, Jem, I" SAE 1120 HIH 120 2 110 1.75 Pin, Cotter, 1/4" x 3" HIH 122 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 1 110 .0552 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .7.250 Ink, "S" HIH 126 1 110 .7.250 Link, "S" HIH 126 1 110 .062 Screw, Drive #10 x 1/2" HIH 127 1 110 .056 Bolts - Hex Hd. 3/4x2" Ig.sAE JH J-101220 4 ** .046 Hondles - Screw Jack JH J-101220 2 102 .2 .046 Front | Spring, Latch HIH 117 1 10028 Bolt, 1" x 3 7/8" HIH 118 1 10 1.75 Nut, Slotted, Jem, 1" SAE 1120 HIH 120 1 110 1.75 Pin, Cotter, 1/4" x 3" HIH 121 2 110 0.0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 0.0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 1 110 0.0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 1 110 0.0525 Spring, 2 3/8" ID x 7 1/4" HIH 124 1 110 0.0525 Chain, 16 Links HIH 126 1 110 0.0525 Link, "S" HIH 127 1 110 0.0525 Bearing Plate - Pintle Hook JH 2 1 110 0.0525 Bolts - Hex Hd. 3/4x2"Lg.SAE JH J-101220 4 *** 0.466 Hendles - Screw Jack JH J-101220 4 *** 0.466 Front Hanger L.H Spring JH | Spring, Latch Bolt, 1" x 3 7/8" HIH 118 HIH 118 HIH 118 HIM 120 Nut, Slotted, Jem, 1" SAE 1120 Steeve Spring, 2 3/8" ID x 7 1/4" HIH 121 Spring, 2 3/8" ID x 7 1/4" HIH 122 Spring, 2 3/8" ID x 7 1/4" HIH 122 Spring, 2 3/8" ID x 7 1/4" HIH 122 Spring, 1 Links HIH 124 1 110 1 100 | Spring, Latch Bolt, 1" x 3 7/8" HIH 118 Bolt, 1" x 3 7/8" HIH 120 Nut, Slotted, Jam, 1" SAE 1120 Sheave Spring, 2 3/8" ID x 7 1/4" HIH 121 Spring, 2 3/8" ID x 7 1/4" HIH 122 Spring, 2 3/8" ID x 7 1/4" HIH 122 Chain, 16 Links Link, "S" HIH 127 Link, "S" HIH 127 Link, "S" HIH 127 Link, "S" HIH 127 Link, "S" HIH 128 Bearing Plate - Pintle Hook HIH 128 Bearing Plate - Pintle Hook HIH 128 Bearing Plate - Pintle Hook HIH 128 HIH 128 Bearing Plate - Pintle Hook HIH 128 Bearing Plate - Pintle Hook HIH 128 Bearing Plate - Pintle Hook HIH 128 HIM 127 Link, "S" Strow, Drive #10 x 1/2" of #14 128 HIM 127 Link, "S" Nuts - Castle, 11/4" SAE HIM 128 Bolt - Drawbar Hinge HIM 125-120 Cotter Pin 1/8 x 2" Lg. HIM 125-36 Cotter Pin 1/8 x 2" Lg. HIM 125-36 Cotter Pin 1/8 x 2" Lg. HIM 1225-36 Link, "S" Link | Spring, Latch Bolt, l" x 3 7/8" Nut, Slotted, Jem, l" SAE 1120 Nut, Slotted, Jem, l" SAE 1120 Spring, 2 3/8" ID x 7 1/4" High 122 Sheer Spring, 2 3/8" ID x 7 1/4" High 122 Spring, 2 3/8" ID x 7 1/4" High 122 Chain, 16 Links Link, "9" Screw, Drive #10 x 1/2" High 126 Sories, Drive #10 x 1/2" High 126 Sories, Drive #10 x 1/2" High 126 Bolts - Hax Hd. 3/4x2"Le.SAE JH J-101220 Handles - Screw Jack Handles - | Spring, Latch HIH 117 1 110 .028 Bolt, 1" x 3 7/8" HIH 118 1 110 1.75 Nut, Slotted, Jsm, 1" SAE 120 HIH 120 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0382 Spring, 2 3/8" ID x 7 1/4" HIH 122 2 110 .0562 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .062 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .062 Link, "S" HIH 126 1 110 .062 Link, "S" HIH 126 1 110 .062 Link, "S" HIH 126 1 10 .062 Bolts - Hex Hd. 3/4x2"Ig.SAE JH 2MT-1476-2 1 103 29.50 1 Hendles - Screw Jack JH 1-10220 2 104 2.75 1 Front Henger L.H Spring JH 1-1046-1 2 104 2.70 1 <td>Spring, Latch HIH 117 1 10 .028 Bolt, l" x 3 7/8" HIH 118 1 10 1.75 Nut, Slotted, Jsm, l" SAE 112 HIH 121 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 123 2 110 .0362 Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 .0362 Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 .0362 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .0562 Chain, 16 Links HIH 126 1 110 .0562 Link, "S" HIH 126 1 110 .0562 Link, "S" HIH 127 1 110 .0562 Bearing Plate - Pintle Hook JH 2xT-1528 1 110 .0562 Bolts - Hex Hd. 3/4z2"Lg.SAE JH J-101220 4 *** .0466 Front Henger LH Spring JH J-7120 2 104 .064 Specar <</td> <td>Spring, latch Bolt, l" x 3 7/8" Nut, Slotted, Jam, l" SAE 112 Nut, Slotted, Jam, l" SAE 112 Pin, Cotter, 1/4" x 3" Hill 118 110 1.75 Pin, Cotter, 1/4" x 3" Hill 122 Sleave Spring, 2 3/8" ID x 7 1/4" Hill 122 Spring, 2 3/8" ID x 7 1/4" Hill 122 Spring, 2 3/8" ID x 7 1/4" Hill 122 Chain, lo Links Hill 124 Screw, Drive #10 x 1/2" Hill 126 Link, "S" Bearing Plate - Pintle Hook Hill 126 Bolts - Hear Hd. 3/4x2"1g.SAE Hill 126 Bolts - Hard Hear Front Hanger R.H Spring Hill 127 Front Hanger R.H Spring Bolt - Drawbar Hinge Bolt - Drawbar Hinge Cotter Pin 1/8 x 2" Lg. Nuts - Castle, 1 1/4" SAE Speece - Rear Spring Hanger Hill 1226-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hanger Hill 1226-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Nuts - Castle, 1 1/4" SAE Speece - Rear Spring Hill 1226-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/4" SAE Specece - Rear Spring Hill 1227-36 Cotter Pin 1/4" SAE Specece - Rear Spring Hill 1006 Cotter Pin 1/4" SAE Spring - Sliding Lock Hill 1006 Spring - Sliding Lock Hill 1007 Cotter Pin 104 Cotter</td> <td>Spring, Latch Bolt, 1" x 3 7/8" Nut, Slotted, Jam, 1" SAE 1120 Fig. 1121 Fig. 1101 Fig. 1102 Fig. 1103 Fig. 1103 Fig. 1104 Fig. 1104 Fig. 1105 Fig. 1105</td> <td>Spring, Latch Bolt, I" x 3 7/8" Nut, Slotted, Jam, I" SAR 128 Nut, Slotted, Jam, I" SAR 128 Pin, Cotter, 1/4" x 3" Hill 122 Sleeve Spring, 2 3/8" ID x 7 1/4" Hill 122 Spring, 2 3/8" ID x 7 1/4" Hill 123 Spring, 2 3/8" ID x 7 1/4" Hill 123 Spring, 2 3/8" ID x 7 1/4" Hill 124 Spring, 2 3/8" ID x 7 1/4" Hill 125 Link, "S" Screw, Drive #ID x 1/2" Hill 126 Link, "S" Hill 127 Screw, Drive #ID x 1/2" Hill 126 Boering Plate - Pintle Hook Hill 127 Screw, Drive #ID x 1/2" Hill 126 Bolts - Hax Hd. 3/42" E.SAR Hill 127 Front Hanger Front Hanger Nuts - Castle, I 1/4" SAR Spring - Spring Hanger O(See page 122 for details O(See page 122 for detai</td> <td>Spring, Latch HIH 117 1 100 .028 Bolt, 1" x 3 7/8" HIH 118 1 110 .145 Nut, Slotted, Jem, 1" sAE 112 HIH 122 1 110 .145 Spring, 2 3/8" ID x 7 1/4" x 3" HIH 122 1 1 .0562 Spring, 2 3/8" ID x 7 1/4" HH 123 1 110 .0562 Nut, Slotted Hax, 1 1/2" - 6 HIH 123 1 110 .0562 Chain, b Links HIH 126 1 110 .0562 Link, "S" HIH 127 1 110 .0562 Boits - Hax Hoser HIH 127 1 110 .0562 Boits - Hax Hoser R.H Spring JH 2MT-1476-2 1 103 29.50 1 Front Hanger R.H Spring JH JT-1220 L *** .0566 Boit - Derwher Hanger R.H Spring JH JT-2120 L *** .056 Cotter Pin 1/8 x 2" Lg.</td> <td>Spring, Latch HIH 117 1 100 .028 Bolt, l" x 3 7/8" HIH 118 1 110 .175 Nut, Slotted, Jem, l" SAE 112 HIH 122 1 10 .032 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 1 10 .032 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 .032 Nut, Slotted Hex, 1 1/2" - 6 HIH 123 1 110 .056 Ink, "S" HIH 127 1 110 .056 Ink, "S" HIH 127 1 110 .056 Screw, Drive Hotes JH 7-101220 4 *** .0466 Boite - Hax Hd. 3/4x2"Lg.SAE JH 7-101220 4 *** .0466 Boite - Hax Hd. 3/4x2"Lg.SAE JH 7-101220 4 *** .0466 Front Hanger L.H Spring JH 17-104-2 1 10 2. Front Hanger L</td> | Spring, Latch HIH 117 1 10 .028 Bolt, l" x 3 7/8" HIH 118 1 10 1.75 Nut, Slotted, Jsm, l" SAE 112 HIH 121 2 110 .0382 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 123 2 110 .0362 Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 .0362 Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 .0362 Nut, Slotted Hex, 1 1/2" - 6 HIH T-9N 1 110 .0562 Chain, 16 Links HIH 126 1 110 .0562 Link, "S" HIH 126 1 110 .0562 Link, "S" HIH 127 1 110 .0562 Bearing Plate - Pintle Hook JH 2xT-1528 1 110 .0562 Bolts - Hex Hd. 3/4z2"Lg.SAE JH J-101220 4 *** .0466 Front Henger LH Spring JH J-7120 2 104 .064 Specar < | Spring, latch Bolt, l" x 3 7/8" Nut, Slotted, Jam, l" SAE 112 Nut, Slotted, Jam, l" SAE 112 Pin, Cotter, 1/4" x 3" Hill 118 110 1.75 Pin, Cotter, 1/4" x 3" Hill 122 Sleave Spring, 2 3/8" ID x 7 1/4" Hill 122 Spring, 2 3/8" ID x 7 1/4" Hill 122 Spring, 2 3/8" ID x 7 1/4" Hill 122 Chain, lo Links Hill 124 Screw, Drive #10 x 1/2" Hill 126 Link, "S" Bearing Plate - Pintle Hook Hill 126 Bolts - Hear Hd. 3/4x2"1g.SAE Hill 126 Bolts - Hard Hear Front Hanger R.H Spring Hill 127 Front Hanger R.H Spring Bolt - Drawbar Hinge Bolt - Drawbar Hinge Cotter Pin 1/8 x 2" Lg. Nuts - Castle, 1 1/4" SAE Speece - Rear Spring Hanger Hill 1226-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hanger Hill 1226-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Nuts - Castle, 1 1/4" SAE Speece - Rear Spring Hill 1226-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Speece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/8 x 2" Lg. Specece - Rear Spring Hill 1227-36 Cotter Pin 1/4" SAE Specece - Rear Spring Hill 1227-36 Cotter Pin 1/4" SAE Specece - Rear Spring Hill 1006 Cotter Pin 1/4" SAE Spring - Sliding Lock Hill 1006 Spring - Sliding Lock Hill 1007 Cotter Pin 104 Cotter | Spring, Latch Bolt, 1" x 3 7/8" Nut, Slotted, Jam, 1" SAE 1120 Fig. 1121 Fig. 1101 Fig. 1102 Fig. 1103 Fig. 1103 Fig. 1104 Fig. 1104 Fig. 1105 Fig. 1105 | Spring, Latch Bolt, I" x 3 7/8" Nut, Slotted, Jam, I" SAR 128 Nut, Slotted, Jam, I" SAR 128 Pin, Cotter, 1/4" x 3" Hill 122 Sleeve Spring, 2 3/8" ID x 7 1/4" Hill 122 Spring, 2 3/8" ID x 7 1/4" Hill 123 Spring, 2 3/8" ID x 7 1/4" Hill 123 Spring, 2 3/8" ID x 7 1/4" Hill 124 Spring, 2 3/8" ID x 7 1/4" Hill 125 Link, "S" Screw, Drive #ID x 1/2" Hill 126 Link, "S" Hill 127 Screw, Drive #ID x 1/2" Hill 126 Boering Plate - Pintle Hook Hill 127 Screw, Drive #ID x 1/2" Hill 126 Bolts - Hax Hd. 3/42" E.SAR Hill 127 Front Hanger Front Hanger Nuts - Castle, I 1/4" SAR Spring - Spring Hanger O(See page 122 for details O(See page 122 for detai | Spring, Latch HIH 117 1 100 .028 Bolt, 1" x 3 7/8" HIH 118 1 110 .145 Nut, Slotted, Jem, 1" sAE 112 HIH 122 1 110 .145 Spring, 2 3/8" ID x 7 1/4" x 3" HIH 122 1 1 .0562 Spring, 2 3/8" ID x 7 1/4" HH 123 1 110 .0562 Nut, Slotted Hax, 1 1/2" - 6 HIH 123 1 110 .0562 Chain, b Links HIH 126 1 110 .0562 Link, "S" HIH 127 1 110 .0562 Boits - Hax Hoser HIH 127 1 110 .0562 Boits - Hax Hoser R.H Spring JH 2MT-1476-2 1 103 29.50 1 Front Hanger R.H Spring JH JT-1220 L *** .0566 Boit - Derwher Hanger R.H Spring JH JT-2120 L *** .056 Cotter Pin 1/8 x 2" Lg. | Spring, Latch HIH 117 1 100 .028 Bolt, l" x 3 7/8" HIH 118 1 110 .175 Nut, Slotted, Jem, l" SAE 112 HIH 122 1 10 .032 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 122 1 10 .032 Sleeve Spring, 2 3/8" ID x 7 1/4" HIH 123 1 110 .032 Nut, Slotted Hex, 1 1/2" - 6 HIH 123 1 110 .056 Ink, "S" HIH 127 1 110 .056 Ink, "S" HIH 127 1 110 .056 Screw, Drive Hotes JH 7-101220 4 *** .0466 Boite - Hax Hd. 3/4x2"Lg.SAE JH 7-101220 4 *** .0466 Boite - Hax Hd. 3/4x2"Lg.SAE JH 7-101220 4 *** .0466 Front Hanger L.H Spring JH 17-104-2 1 10 2. 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HIH 1107 JH 2MT-1520 JH 2MT-1501 JH 2MT-1501 JH 2MT-147-2 JH 1MT-1434 JH 1MT-1434 JH 1MT-1434 JH 1MT-1435 JH 2MT-1435 JH 2MT-1435 JH 2MT-1435 JH 1MT-1435 JH 1MT-1515 JH 1MT-	Government Part No.	Part Name	Primery Code	Manufacturer Part Number	Quen.	Page	Unit Weight	Price
Bolts - Hex Hd. 5th Wheel JH J-101014 14, 104, 5/8 x 1 1/2 SAE Name Plate - Dolly JH ZMT-1520 1 113 Drawbar Assembly JH ZMT-1501 1 104, 144, 158e page 122 for details of assembly) Hinge - L.H. JH ZMT-14/7-2 1 104, 8 Hinge - L.H. JH ZMT-14/7-2 1 104, 8 Lock Pin Handle JH JH ZMT-14/34 2 104, 100, 100, 100, 100, 100, 100, 100,	20T-5047	Rivet $3/8 \times 1$	HIH	1107	٦	701	.0586	Ď.
Neme Plate - Dolly Name Plate - Dolly JH 24T-1501 1 1 1 1 Cae page 122 for details JH 24T-1501 1 1 1 1 Cae page 122 for details JH 24T-1477-1 1 1 1 1 1 Hinge - L.H. JH 24T-1477-2 1 1 1 1 Hinge - R.H. JH 24T-1477-2 1 1 1 1 Hinge - R.H. JH 24T-1477-2 1 1 1 1 Lock Pin Handle JH JH 24T-1434 2 1 1 1 Lock Pin Handle JH JH 24T-1434 2 1 1 1 Bushing - Hinge Pin JH 24T-1435 2 1 1 1 Bushing - R.H. JH JH 21552 1 1 1 Cut Out Cock JH JH 21559 1 1 1 Bracket JH J-1557 2 1 Stove Bolts & Nuts JH J-1557 2 1 Stove Bolts & Nuts JH J-10511 2 1 Nut - Hex 5/L6 x I /8 Lg. SAE JH J-1054 1 1 1 And wheel & Shaft Ass'y JH 24T-1515 1 1 1 Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. NAS SWA-T-12-10-JT 1 1 1 And washing community JH J-1054 1 1 1 And washing community JH J-1054 1 1 And Addition of See page 126 for details of seemality JH SWA-T-12-10-JT 1 1 1 And Addition of See page 126 for details of seemality JH SWA-T-12-10-JT 1 1 1 And Addition of See page 126 for details of seemality JH J-1054 JH J-1054 JH J-1054 And Addition of See page 126 for details of seemality JH J-1054	20T-5057	Bolts - Hex Hd. 5th Wheel 5/8 x 1 1/2 SAE	E,	J-101014	71	701	હ.	80.
See page 122 for details	20T-5058	Neme Plate - Dolly	H	2MT-1520	٦	113	8.	79.
(See page 122 for details of assembly) finge - L.H. finge - L.H. finge - L.H. Draw Bar Lock Pin JH 1477-2 104 E 105 E 10	20T-5059	Drawbar Assembly	H	4MT-1501	-	107	142.125	46.81
### Proof of assembly TH 2MT-1477-1 104, E #### Hinge - N.H.		for						
Hinge - L.H. Hinge - L.H. Hinge - R.H. Hinge - R.H. Hinge - R.H. Hinge - R.H. Draw Bar Lock Pin JH 1MT-1434 Lock Pin Handle Bushing - Hinge Pin Bushing - Linge Pin Bu		of assembly)						
Hinge - R.H. Draw Bar Lock Pin Draw Bar Lock Pin Draw Bar Lock Pin JH INT-1434 Lock Pin Handle Bushing - Hinge Pin Bushing - Hi	20T-5060	Hinge - L.H.	胃		٦	701	8.937	7.5
Draw Ber Lock Pin Draw Ber Lock Pin Lock Pin Handle Lock Pin Handle Lock Pin Handle Bushing - Hinge Pin Bush BC-839 (See page 122 for details of assembly) Cut Out Cock Hose bage 122 for details of assembly) Cut Out Cock Hose bage 122 for details of assembly) Bwr 215592 Lucy Cot Cock Hose bage 122 for details Bwr 217799 I 97 I 87 I 97 I 97 I 97 I 197 WRacket Stove Bolts & Nuts 5/16 x 7/8 Lg. Cap Screw 5/16 x 1 1/8 Lg.SAE JH J-10511 Nut - Hex 5/16 SAE Cap Screw 3/8 x 3/4 Lg. SAE Hand wheel & Shaft Ass'y WRatchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 126 for details of assembly.) Nash (See page 126 for details of assembly.)	20T-5061	Hinge - R.H.	円	2MT-1477-2	7	701	8.937	7.5
Lock Pin Handle Lock Pin Handle Bushing - Hinge Pin Bushing - Bushing Bushing - Size - Bushing Bushing - Bushing - Bushing Bushing - Bushin	20T-5063	Draw Bar Lock Pin	民	1MT-1434	ત્ય	701	2.75	
Bushing - Hinge Pin BBB EC-839 2 104, Hose, Assembly Gree page 122 for details of assembly) Cut Out Cock Out Cock BWE 217799 1 97 1 BWE 22277 1 1 97 1 BWE 22227 1 1 97 1 BWE 212277 1 1 97 1 BWE 212277 1 1 8 Lg. SAE JH J-10511 2 ** Stove Bolts & Nuts JH JL BLG. SAE JH J-10511 2 ** 5/16 x 7/8 Lg. Cap Screw 5/16 x 1 1/8 Lg. SAE JH J-10511 2 ** Nut - Hex 5/16 SAE JH J-10511 2 ** Katchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. JH J-10840 2 105 Wount. 1/2 x 4 SAE Spare Tire Carrier - L.B. NAS SWA-T-12-10-JT 1 111 41	20T-5064	Lock Pin Handle	民	1MT-1435	8	701	83.	1.16
Hose, Assembly (See page 122 for details of assembly) Cut Out Cock Out Cock Hose Suspension Spring BwE 217799 1 97 1 Bracket Stove Bolts & Nuts 5/16 x 7/8 Lg. Cap Screw 5/16 x 1 1/8 Lg. SAE JH J-10511 2 ** Nut - Hex 5/16 SAE Hand wheel & Shaft Ass'y W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. Wount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 122 for details of seeple 12. Nash (See page 122 for details of seeple 12. Wount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 126 for details of seemly.)	20T-5065	Bushing - Hinge Pin	BBB	EC-839	ત્ય	701	.187	76.
(See page 122 for details of assembly) Cut Out Cock Hose Suspension Spring BWE 217799 1 97 1 Bracket Stove Bolts & Nuts 5/16 x 7/8 Lg. Cap Screw 5/16 x 1 1/8 Lg.SAE JH J-1557 2 *** Cap Screw 5/16 x 1 1/8 Lg.SAE JH J-2051 2 *** Cap Screw 5/16 SAE Nut - Hex 5/16 SAE Nut - Hex 5/16 SAE Cap Screw 3/8 x 3/4 Lg. SAE JH J-205 Cap Screw 3/8 x 3/4 Lg. SAE JH J-205 Cap Screw 5/16 SAE Nut - Hex 5/16 SAE Hand wheel & Shaft Ass'y W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. Wount. 1/2 x 4 SAE Spare Tire Carrier - L.B. NAS SWA-T-12-10-JT 1 111 41	20T-5066	Hose, Assembly	BWE	215592	7	93	3.75	7.48
Of assembly) Cut Out Cock Hose Suspension Spring BME 200661 Bracket Stove Bolts & Nuts 5/16 x 7/8 Lg. Cap Screw 5/16 x 1 1/8 Lg.SAE JH Stove Bolts & Shaft Lg. SAE JH J-205 Cap Screw 3/8 x 3/4 Lg. SAE JH J-205 Cap Screw 3/8 x 3/4 Lg. SAE JH J-205 Cap Screw 3/8 x 3/4 Lg. SAE JH J-10664 Land wheel & Shaft Ass'y W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 126 for details of seembly.)		2 for						
Cut Out Cock Hose Suspension Spring BWE 217799 Hose Suspension Spring BWE 212227 Bracket Stove Bolts & Nuts 5/16 x 7/8 Lg. Cap Screw 5/16 x 1 1/8 Lg.SAE JH J-10511 Nut - Hex 5/16 SAE Nut - Hex 5/16 SAE Hand wheel & Shaft Ass'y W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. Wount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 126 for details of carrier) Nash (See page 126 for details of carrier)		of assembly)				•		
Hose Suspension Spring	20T-5067	Cut Out Cock	BWE	217799	٦	46	1.812	2.46
Bracket Stove Bolts & Nuts Stove Bolts & Nuts 5/16 x 7/8 Lg. Cap Screw 5/16 x 1 1/8 Lg.SAE JH Nut - Hex 5/16 SAE Cap Screw 3/8 x 3/4 Lg. SAE Hand wheel & Shaft Ass'y W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 126 for	20T-5068	Hose Suspension Spring	EME	200661	٦		.25	.26
Stove Bolts & Nuts 5/16 x 7/8 Lg. Cap Screw 5/16 x 1 1/8 Lg.SAE JH Nut - Hex 5/16 x B Cap Screw 5/16 SAE Nut - Hex 5/16 SAE Nut - Hex 5/16 SAE Cap Screw 3/8 x 3/4 Lg. SAE Hand wheel & Shaft Ass'y W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 126 for details of assembly.)	20T-5069	Bracket	BWE	212227	٦		.50	97.
5/16 x 7/8 Lg. Cap Screw 5/16 x 1 1/8 Lg.SAE JH J-10511 2 ** Nut - Hex 5/16 SAE Nut - Hex 5/16 SAE Nut - Hex 5/16 SAE Sap Screw 3/8 x 3/4 Lg. SAE JH J-205 Cap Screw 3/8 x 3/4 Lg. SAE JH J-1066 Hand wheel & Shaft Ass'y W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 126 for details of assembly.)	20T-5070	Stove Bolts & Nuts	丐	J-1557	8	*	.037	.02
Cap Screw 5/16 x 1 1/8 Lg.SAE JH J-10511 2 ** Nut - Hex 5/16 SAE Sap Screw 3/8 x 3/4 Lg. SAE Hand wheel & Shaft Ass'y W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 126 for details of search)		$5/16 \times 7/8 \text{ Lg}$.					,	•
Nut - Hex 5/16 SAE Cap Screw 3/8 x 3/4 Lg. SAE Hand wheel & Shaft Ass'y W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. Wount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 126 for	20T-5071	Cap Screw 5/16 x 1 1/8 Lg.S.		J-10511	7	*	.0555	.02
Cap Screw 3/8 x 3/4 Lg. SAE JH J-1066 4 ** Hand wheel & Shaft Ass'y JH 2MT-1515 1 105 22 W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. JH J-10840 2 105 Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. NAS SWA-T-12-10-JT 1 111 41	20T-5072	Nut - Hex 5/16 SAE		J-205	7	*	9800.	.01
Hand wheel & Shaft Ass'y JH 2MT-1515 1 105 22 W/Ratchet (See page 122 for details of assembly.) Bolt - Hex Hd. Brg. Brk. JH J-10840 2 105 Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. NAS SWA-T-12-10-JT 1 111 41	20T-5073	Į,		3-1066	7	*	.0357	•05
<pre>w/Ratchet (See page 122 for details of assembly.) bolt - Hex Hd. Brg. Brk. JH J-10840 2 105 .</pre>	20T-5074	Hand Wheel & Shaft Ass'y	Ħ	2MT-1515	ا	105	22.000	14.80
for details of assembly.) Bolt - Hex Hd. Brg. Brk. Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. Nash (See page 126 for		W/Ratchet (See page 122						•
<pre>Bolt - Hex Hd. Brg. Brk. JH J-10840 2 105 . Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. NAS SWA-T-12-10-JT 1 111 41. Nash (See page 126 for detail of seemel with the carrier of</pre>		for details of assembly.)						
Mount. 1/2 x 4 SAE Spare Tire Carrier - L.B. NAS SWA-T-12-10-JT 1 111 Nash (See page 126 for	20T-5075	Bolt - Hex Hd. Brg. Brk.	丐	078CI-f	~	105	. 250	80.
Spare Tire Carrier - L.B. NAS SWA-T-12-10-JT 1 111 Nash (See page 126 for		Mount. $1/2 \times 4$ SAE						
126 for	20T-50 76		NAS	SWA-T-12-10-JT	1	Ħ	41.625	13.40

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