

**TM 9-2330-334-13&P**

## **CHAPTER 4**

# **MAINTENANCE INSTRUCTIONS**



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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS**


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**0052 00****THIS WORK PACKAGE COVERS:**

Introduction, Leakage Definition, Inspection, Lubrication Service Intervals - Normal Conditions,  
Lubrication Service Intervals - Unusual Conditions, Cleaning and Lubrication, PMCS Procedures

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**INITIAL SETUP:****Maintenance Level**

Operator

**Tools and Special Tools**

Bar, Socket Wrench Handle (Item 1,  
WP 0167 00)  
Screwdriver, Crosstip (Item 14  
WP 0167 00)  
Screwdriver, Crosstip (Item 15,  
WP 0167 00)  
Wrench, Adjustable, 8 in. (Item 29,  
WP 0167 00)  
Wrench, Adjustable, 12 in. (Item 28,  
WP 0167 00)  
Tool Kit, Genl Mech (Item 22, WP 0167 00)  
Inflator-Gage, Tire w/Hose  
(Item 9, WP 0167 00)  
Gloves, Welder's (Item 7, WP 0167 00)  
Goggles, Industrial (Item 8, WP 0167 00)  
Gloves, Rubber (Item 6, WP 0167 00)

**Materials/Parts**

Grease, Automotive and Artillery (GAA)  
(Item 7, WP 0165 00)  
Grease, Wire-Rope and Exposed Gear  
(Item 8, WP 0165 00)  
Oil, Lubricating, Gear, GO  
(Item 10, WP 0165 00)

**Materials/Parts (Cont)**

Corrosion Prevention Compound (Item 5, WP  
0165 00)  
Rag, Wiping (Item 11, WP 0165 00)  
Soap, Laundry (Item 16, WP 0165 00)  
Brush Set (Item 3, WP 0165 00)

**Personnel**

(2)

**References**

Towing Vehicle Operator Manual

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**INTRODUCTION**
**General**

Preventive Maintenance Checks and Services (PMCS) are performed to keep the Load Handling System Trailer (LHST) in operating condition. The checks are used to find, correct, or report problems. Crew members are to do the PMCS jobs as shown in the PMCS tables. PMCS are done every day the trailer is operated, using the PMCS tables.

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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**


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**0052 00****INTRODUCTION - Continued****General - Continued**

Pay attention to WARNING and CAUTION statements. A WARNING means someone could be hurt. A CAUTION means equipment could be damaged.

Before you begin operating the trailer and/or its equipment, do Before PMCS.

During operation, do During PMCS.

After operation, do After PMCS.

Once a week do Weekly PMCS. If trailer has not been operated in a week, also do Before PMCS at the same time.

Do Monthly PMCS once a month. If trailer has not been operated in a month, also do After PMCS at the same time.

Field Level Maintenance performs SEMIANNUAL PMCS once every six months.

Field Level Maintenance performs ANNUAL PMCS once every 12 months.

If you are operating the trailer for the first time, do your Weekly and Monthly PMCS the first time you do your Before PMCS.

If you find something wrong when performing PMCS, fix it if you can, using troubleshooting procedures and/or maintenance procedures.

The right-hand column of the PMCS table lists conditions that make the trailer Not Fully Mission Capable. Write up items not fixed on DA Form 2404 for Field Level Maintenance. For further information on how to use this form, see DA PAM 738-750.

**Explanation Of Table Entries**

**Item Number Column.** Numbers in this column are for reference. When completing DA Form 2404 (Equipment Inspection and Maintenance Worksheet), include the Item Number for the Check/Service indicating a fault. Item Numbers also appear in the order that you must perform Checks and Services for the intervals listed.

**Interval Column.** This column tells you when you must perform the procedure in the procedure column. BEFORE procedures must be performed before you operate or use the trailer. DURING procedures must be performed during operation of the trailer. AFTER procedures must be performed immediately after you have operated the trailer. WEEKLY procedures must be performed every seven days. MONTHLY procedures must be performed approximately every 30 days. SEMIANNUAL procedures must be performed every six months. ANNUAL procedures must be performed every 12 months.

**Man-hour Column.** This column describes the number of man-hours required to complete all prescribed lubrication service. It is stated to the nearest tenth of an hour.



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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

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**0052 00****INTRODUCTION - Continued****Explanation Of Table Entries - Continued**

Item to be Checked/Serviced Column. This column provides the location and the item(s) to be checked or serviced.

Procedure Column. This column provides the procedure to check or to service the item(s) listed in the check/service column.

Equipment Not Ready/Available If: Column. This column tells you what faults will keep the trailer from being capable of performing the primary mission. If you perform check and service procedures that show faults listed in this column, do not operate the trailer. Follow standard operating procedures for maintaining the trailer or reporting equipment failure.

**LEAKAGE DEFINITION**

It is necessary for you to know how fluid leakage affects the status of the trailer. The following are definitions of the classes of leakage you need to know to be able to determine the status of the trailer. Learn these leakage definitions and REMEMBER - WHEN IN DOUBT, REFER TO NEXT MAINTENANCE LEVEL.

**NOTE**

Equipment operation is allowable with minor leakages (Class I or II). Consideration must be given to the fluid capacity of the item or system being checked. When Operators are in doubt, refer to Field Level Maintenance.

When operating with Class I or II leaks, continue to check fluid levels as required in your PMCS.

**CAUTION**

Operators must report Class III leaks to Field Level Maintenance. Failure to comply may result in damage to equipment.

CLASS I - Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.

CLASS II - Leakage of fluid great enough to form drops but not enough to cause drops to drip from item being checked.

CLASS III - Leakage of fluid great enough to form drops that fall from the item being checked.

**INSPECTION**

Look for signs of a problem or trouble. Senses help here. You can feel, smell, hear, or see many problems. Be alert when on the trailer.

Inspect to see if items are in good condition. Are they correctly assembled, stowed, and secured, or excessively worn, leaking, corroded, or improperly lubricated? Correct any problems found or notify the next level of maintenance.

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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

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**0052 00****INSPECTION - Continued**

There are some common items to check all over the trailer. These include the following:

1. Bolts, clamps, nuts, and screws: Continuously check for looseness. Look for chipped paint, rust, or corrosion around bolt and screw heads and nuts. Tighten them when you find them loose. If tools are not available, notify the next level of maintenance.
2. Welds: Many items on the trailer are welded. To check these welds, look for chipped paint, rust corrosion, or gaps. When these conditions exist, Operators must notify Field Level Maintenance on DA Form 2404.
3. Electrical wires, connectors, and harnesses: Tighten loose connectors. Look for cracked or broken insulation, bare wires, and broken connectors. If any are found, Operators must notify Field Level Maintenance.
4. Hoses and fluid lines: Look for wear, damage and leaks, and make sure clamps and fittings are tight. Wet spots mean a leak. A stain by a fitting or connector can also mean a leak. When you find a leak, Operators must notify Field Level Maintenance.

**LUBRICATION SERVICE INTERVALS - NORMAL CONDITIONS****General**

For safer, more trouble-free operations, make sure that your trailer is serviced when it needs it. Proper lubrication and service intervals which are the responsibility of the Operator/Crew and Field level maintenance are found in this work package.

**Adherence**

Intervals (on-condition or hard time) and the related man-hour times are based on normal operation. The man-hour time specified is the time needed to do all the services prescribed for a particular interval. On-condition (OC) oil sample intervals shall be applied. Change the hard time interval if lubricants are contaminated or if operating the equipment under adverse operating conditions, included longer-than-usual operating hours. The calendar interval may be extended during periods of low activity. If extended, adequate preservation precautions must be taken. Hard time intervals must be applied during the warranty period.

Intervals shown in this work package are based on calendar times. An example of a calendar interval is: Q, which means quarterly (every three months). The lubrication is to be performed at whichever interval indicated for the trailer.

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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

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**0052 00****LUBRICATION SERVICE INTERVALS - NORMAL CONDITIONS - Continued****WARNING**

**Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well-ventilated area; avoid contact with skin, eyes, and clothes, and do not breath vapors. Keep away from heat or flame. Never smoke when using Dry Cleaning Solvent; the flashpoint for Type I Dry Cleaning Solvent is 100 °F (38 °C) and for Type II is 138 °F (50 °C). Failure to comply may result in serious injury or death to personnel.**

**If personnel become dizzy while using Dry Cleaning Solvent, immediately get fresh air and medical help. If Dry Cleaning Solvent contacts skin or clothes, flush with cold water. If Dry Cleaning Solvent contacts eyes, immediately flush eyes with water and get medical attention. Failure to comply may result in serious injury or death to personnel.**

**Cleaning Fittings Before Lubrication.** Clean parts with Dry Cleaning Solvent (SD II, P-D-680) or equivalent. Dry before lubricating. Dashed arrows indicate lubrication on both sides of equipment.

**Lubrication After Fording.** If a fording operation occurs, lubricate all fittings below fording depth and check submerged gear boxes for presence of water.

**Lubrication After High Pressure Washing.** After a thorough washing, lubricate all grease fittings and oil can points outside and underneath trailer.

**Lubrication Local Views.** A reference to the appropriate localized view is given after most lubrication entries.

**Corrosion Control**

Refer to WP 0001 00, Corrosion Prevention and Control (CPC), for appropriate corrosion control procedures.

**Hard Time Lubrication Intervals**

For equipment under manufacturer's warranty, hard time lubrication intervals shall be followed. Intervals shall be shortened if lubricants are known to be contaminated or if operation is under adverse conditions (e.g. longer than usual operating hours, extended idling periods, extreme dust).

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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**


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**0052 00****LUBRICATION SERVICE INTERVALS - NORMAL CONDITIONS - Continued****Lubrication Interval Symbols**

The following lubrication interval symbols will be used as applicable:

M-monthly

S-semiannually

**Lubrication Man-Hour Requirements****Table 1: Lubrication Man-Hours**

<b>Intervals</b>		<b>Total Man-Hours – LHST</b>
Monthly (M)	Lubrication performed once every month	0.3
Semi-annually (S)	Lubrication performed once every six months*	6.0

**LUBRICATION KEY****Table 2: Lubricants**

<b>Specification</b>	<b>Type</b>
MIL-G-10924 (GAA)	Grease, Automotive and Artillery
MIL-L-2105 (GO)	Lubricating Oil, Gear, Multipurpose

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

**LUBRICATION SERVICE INTERVALS - NORMAL CONDITIONS - Continued**

Table 3: Cleaning Agents

Specification	Type
P/N WD-40	Corrosion Preventive Compound

Table 4: Cleaning Agent/Temperature

DESCRIPTION	CAPACITY	EXPECTED TEMPERATURES*		
		Above +15°F (Above -9°C)	+15°F to -15°F (-9°C to -26°C)	-15°F to -50°F (-26°C to -46°C)
All metal parts as required.	A/R	Corrosion Preventive Compound		

\*For arctic operation refer to FM 9-207, Operation and Maintenance of Ordnance Materiel in Cold Weather (0 degrees to minus 65°F).

**LUBRICATION SERVICE INTERVALS - UNUSUAL CONDITIONS**

The trailer will require extra service and care when you operate under unusual conditions. High or low temperatures, long periods of hard use, or continued use in sand, water, mud, or snow will break down the lubricant requiring you to add or change lubricant more often.

**CLEANING AND LUBRICATION**
**WARNING**

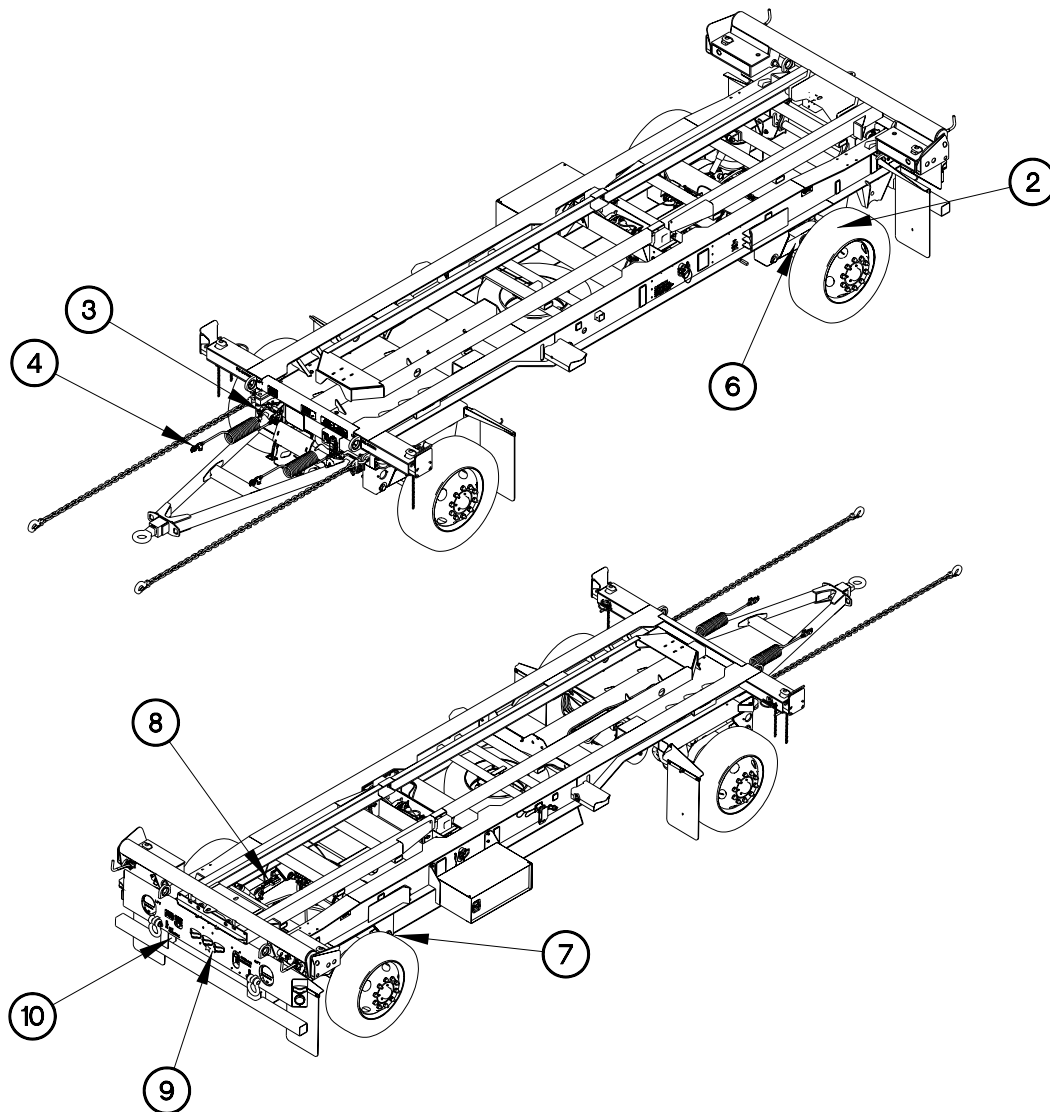
**Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well-ventilated area; avoid contact with skin, eyes, and clothes, and do not breath vapors. Keep away from heat or flame. Never smoke when using Dry Cleaning Solvent; the flashpoint for Type I Dry Cleaning Solvent is 100 °F (38 °C) and for Type II is 138 °F (50 °C). Failure to comply may result in serious injury or death to personnel.**

**If personnel become dizzy while using Dry Cleaning Solvent, immediately get fresh air and medical help. If Dry Cleaning Solvent contacts skin or clothes, flush with cold water. If Dry Cleaning Solvent contacts eyes, immediately flush eyes with water and get medical attention. Failure to comply may result in serious injury or death to personnel.**

Dirt, grease, oil, and debris only get in the way and may cover up a serious problem. Use Dry Cleaning Solvent on metal surfaces where directed.

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued****0052 00****PMCS PROCEDURES****Before** PMCS Procedures for Trailer

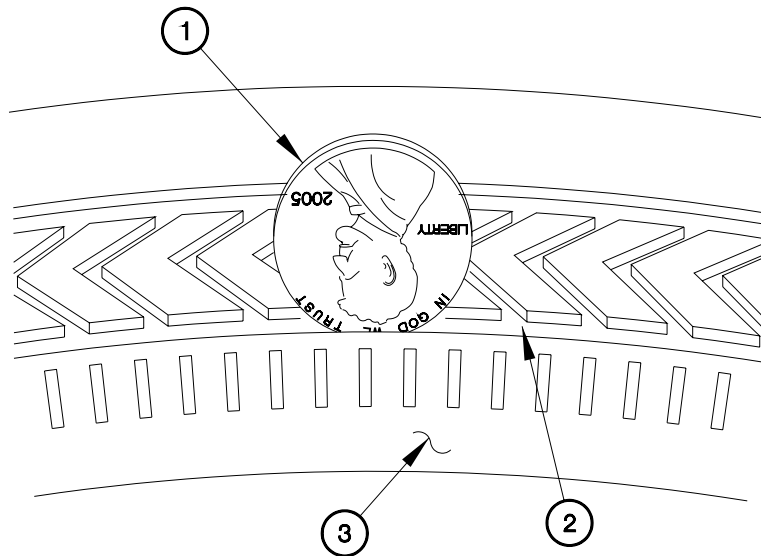
These illustrations will help you perform BEFORE trailer PMCS. Callouts match PMCS item numbers/procedures.



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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00****Before** PMCS Procedures for Trailer - Continued**Table 5: Preventive Maintenance Checks and Services (PMCS) - Before.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY / AVAILABLE IF:
1	Before		Exterior of Trailer	Look under trailer for signs of fluid leakage (grease or water).	Class III leak is evident.
2	Before		Wheels and Tires (all four)	1. Using a penny (1), insert upside down in the most shallow tread groove (2). If the top of Lincoln's head remains visible (approximately 0.0625 inches or 1.6 mm), tire (3) should be replaced.	Top of Lincoln's head remains visible.



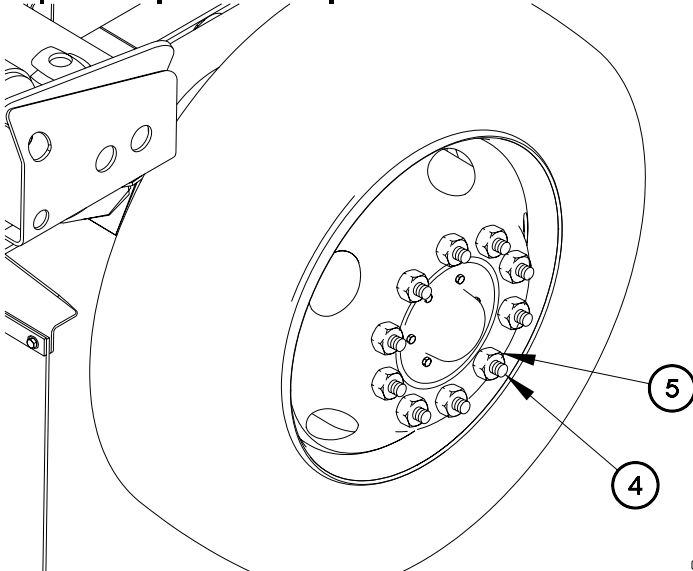
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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Before PMCS Procedures for Trailer - Continued

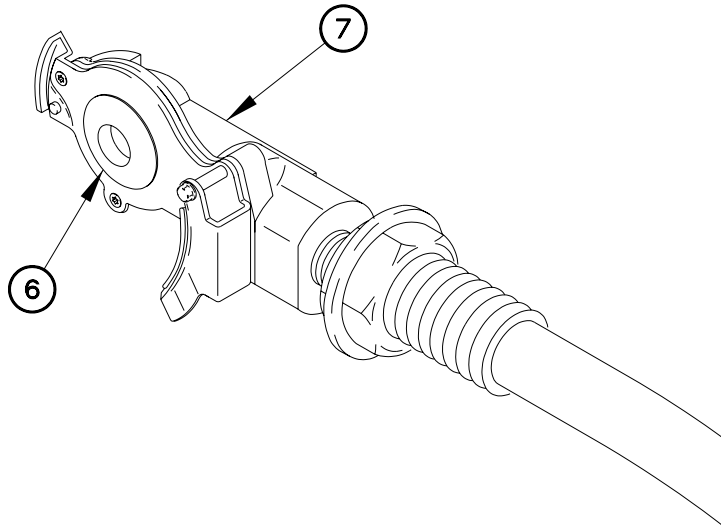
**Table 5: Preventive Maintenance Checks and Services (PMCS) - Before.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
2	Before		Wheels and Tires (all four) - Continued	<p>2. Check wheel assembly for damage. If damaged, remove wheel and check wheel for cracked, broken, or bent surfaces.</p> <p>3. Check wheel studs (4) and nuts (5) for obvious looseness. Check for bent or broken studs and missing or loose nuts. Notify Field Level Maintenance if any nuts are loose or missing or if any studs are broken or bent.</p>	<p>Wheel is cracked, broken, or bent.</p> <p>Two or more studs (4) or nuts (5) on same wheel are missing, loose, or broken.</p>
 <p>CD052P03</p>				<p>4. Check tire pressures with tire inflator/gage for 120 psi (cold).</p>	



**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00****Before** PMCS Procedures for Trailer - Continued**Table 5: Preventive Maintenance Checks and Services (PMCS) - Before.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY / AVAILABLE IF:
3	Before		Coupler Seals on LH and RH Trailer and Towing Vehicle Gladhands	Check that coupler seals (6) on gladhands (7) are free of dirt, sand, or other abrasive materials. Clean if dirt, sand, or other abrasive materials are present (WP 0054 00, General, Table 1. General Cleaning Instructions).	



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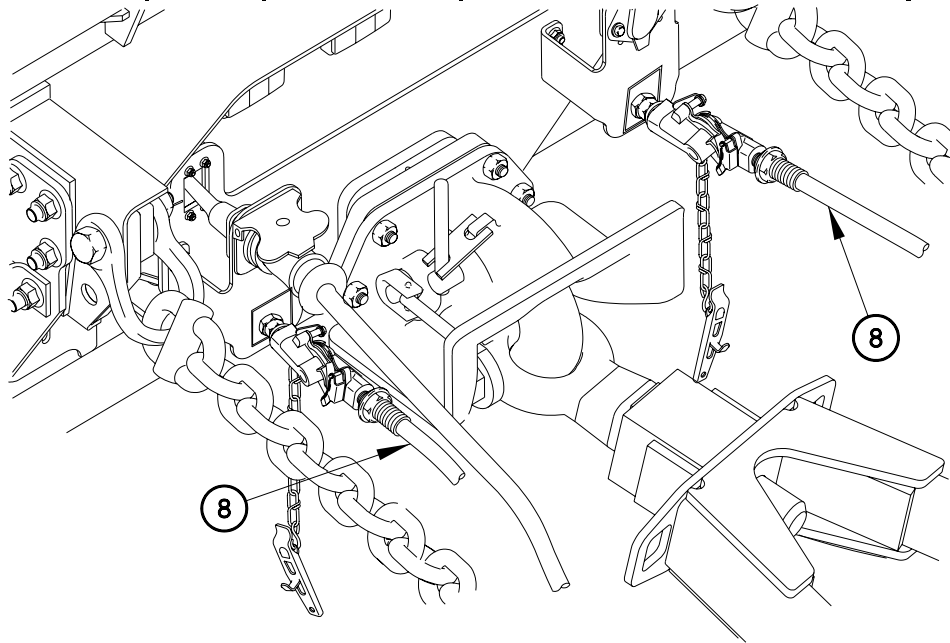
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Before PMCS Procedures for Trailer - Continued

**Table 5: Preventive Maintenance Checks and Services (PMCS) - Before - Continued.**

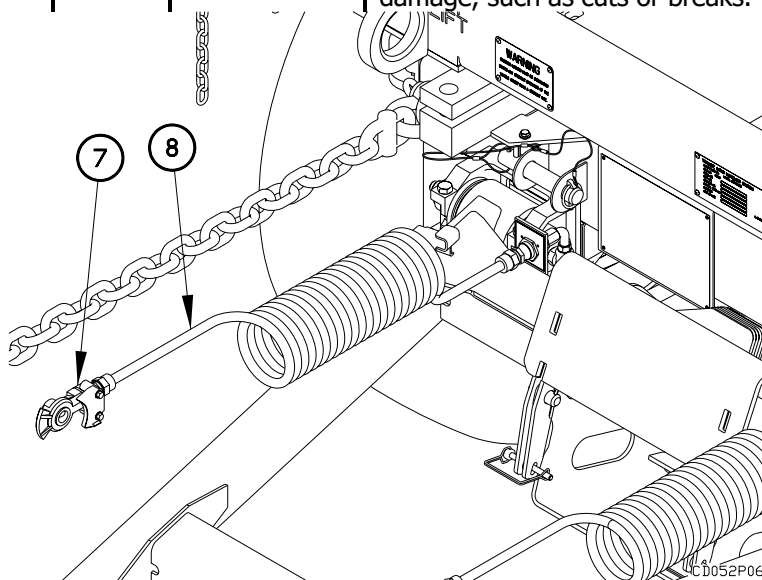
ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY / AVAILABLE IF:
4	Before		LH and RH SERVICE and EMERGENCY Gladhand Hoses with Trailer Coupled to Towing Vehicle	1. Check that SERVICE and EMERGENCY gladhand hoses (8) are securely connected to towing vehicle.	Both SERVICE and EMERGENCY gladhand hoses (8) cannot be securely connected to towing vehicle.



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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00****Before** PMCS Procedures for Trailer - Continued**Table 5: Preventive Maintenance Checks and Services (PMCS) - Before - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY / AVAILABLE IF:
4	Before		LH and RH SERVICE and EMERGENCY Gladhand Hoses with Trailer Coupled to Towing Vehicle - Continued	<p>1. Start towing vehicle engine (WP 0020 00).</p> <p>2. Check SERVICE and EMERGENCY gladhand hoses (8) and gladhands (7) for leaks and other obvious damage, such as cuts or breaks.</p>	SERVICE and EMERGENCY gladhand hoses (8) and gladhands (7) are leaking or damaged.



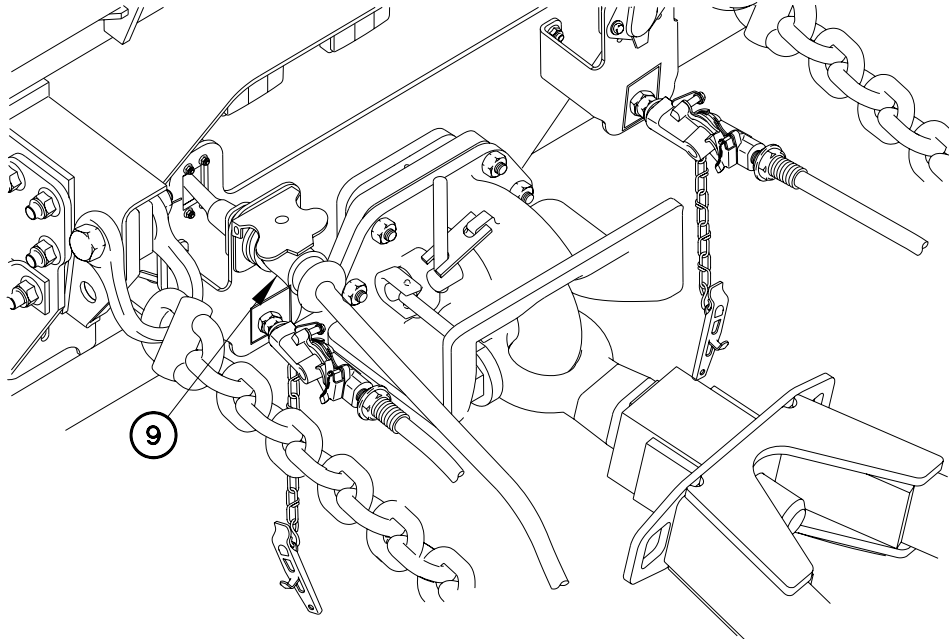
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Before PMCS Procedures for Trailer - Continued

**Table 5 Preventive Maintenance Checks and Services (PMCS) - Before - Continued.**

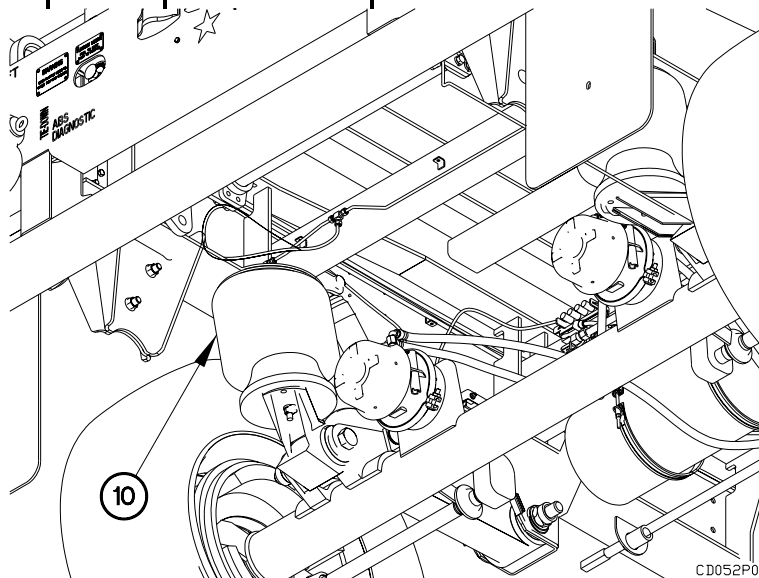
ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
5	Before		Intervehicular Cable with Trailer Coupled to Towing Vehicle	<p>1. Check for secure attachment of intervehicular cable (9) to trailer and towing vehicle.</p> <p>2. Check intervehicular cable (9) for cracked insulation, bent pins or bare wires.</p>	<p>Intervehicular cable (9) cannot be securely connected to trailer and towing vehicle.</p> <p>Intervehicular cable (9) has cracked insulation, bent pins, or bare wires.</p>



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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00****Before** PMCS Procedures for Trailer - Continued**Table 5: Preventive Maintenance Checks and Services (PMCS) - Before - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
6	Before		Air Bag Suspension (all four)	Check air bags (10), suspension components, and attaching hardware for any sign of damage, looseness, wear, cracks, or cuts.	Attaching hardware is loose or air bags (10) are cracked, cut or unable to hold 75 psi.

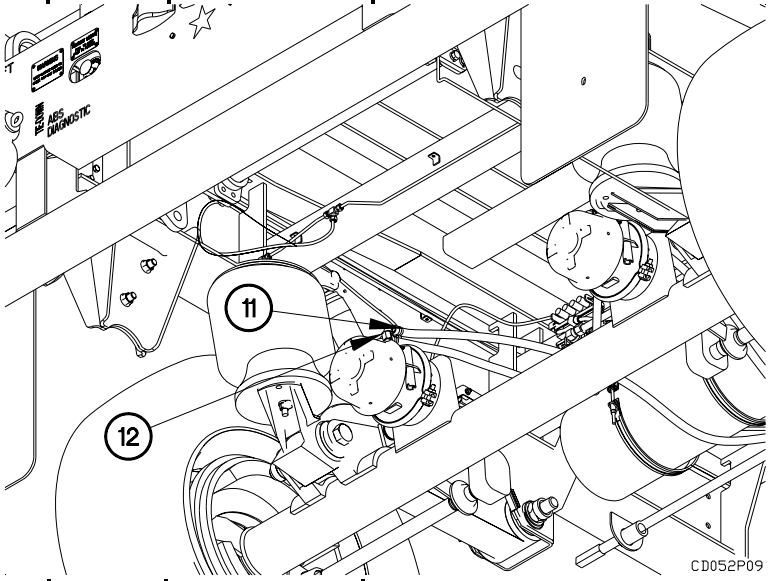


**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Before PMCS Procedures for Trailer - Continued

**Table 5: Preventive Maintenance Checks and Services (PMCS) - Before - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY / AVAILABLE IF:
7	Before		Brake System (Front and Rear)	1. Check air hoses (11) for chafing, bends, kinks, or damaged fittings (12). Notify Field Maintenance if fittings are damaged.	Fittings (12) are damaged or hoses (11) are damaged to the point of leaking air.
					
8	Before		Trailer	Check bolts, nuts, clamps, hoses, and tubes for looseness and missing, broken, or leaking conditions. Tighten loose bolts, nuts, and clamps. If bolts, nuts, clamps, hoses, or tubes are missing, broken, cannot be tightened, or are damaged to the point of leaking, notify Field Level Maintenance. The following should be checked:	

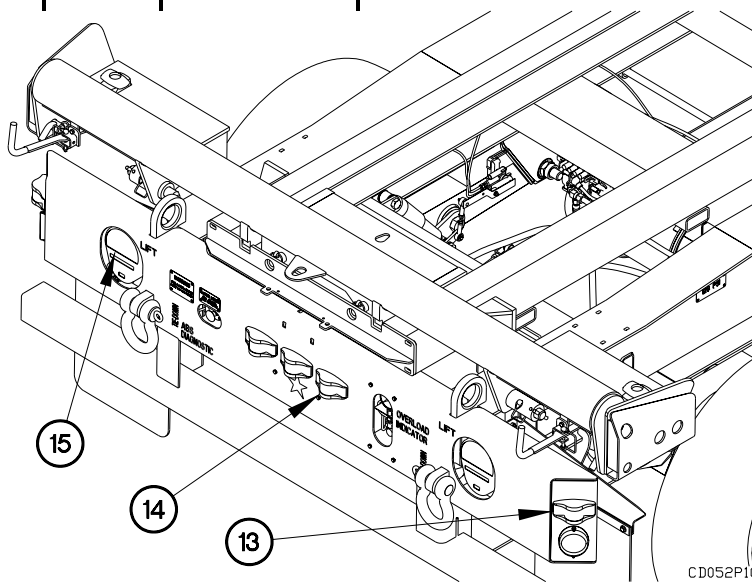
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Before PMCS Procedures for Trailer - Continued

**Table 5: Preventive Maintenance Checks and Services (PMCS) - Before - Continued**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
9	Before		Trailer Lights/ABS Diagnostic	<p>1. Couple trailer to towing vehicle (move forward for air) (WP 0043 23, TM 9-2320-392-10-1).</p> <p>2. Position the main light switch of the towing vehicle to the appropriate position to check all lights.</p> <p>3. Check trailer clearance lights (13) marker lights (14), turn signals (15), taillights (15), stoplights (15), and blackout stop lights (15) for damage and proper operation (WP 0004 00, Controls) at every rest break.</p>	One or more trailer marker lights(14), turn signals (15), taillights (15), stoplights (15), and blackout stop lights (15) are missing, damaged, or not operational.



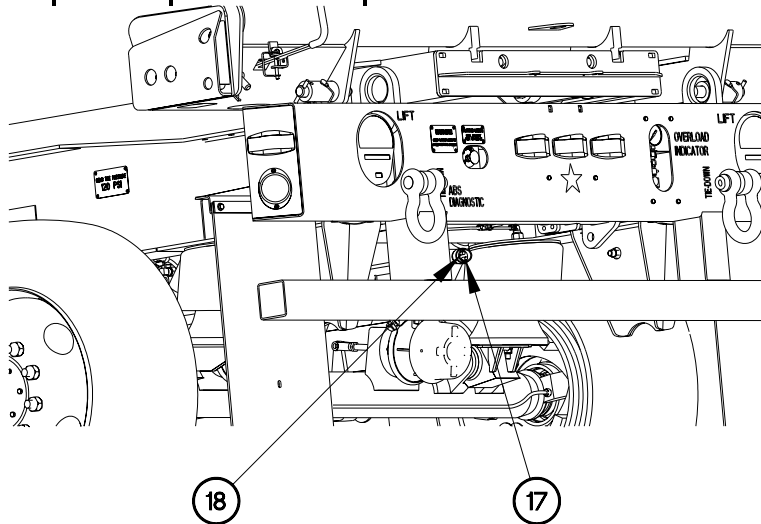
# **PREVENTIVE MAINTENANCE CHECKS AND SERVICES, INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

**Before** PMCS Procedures for Trailer - Continued

**Table 5: Preventive Maintenance Checks and Services (PMCS) - Before - Continued**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY / AVAILABLE IF:
10	Before		Trailer Lights/ABS Diagnostic Continued.	4. Press blink code button on ABS diagnostic connector (17) once for one second and release the button. If there are no faults the LED (18) will go off, come back on and remain on. If there are faults, the LED will flash (blink).	If the ABS diagnostic LED (18) flashes (blinks).



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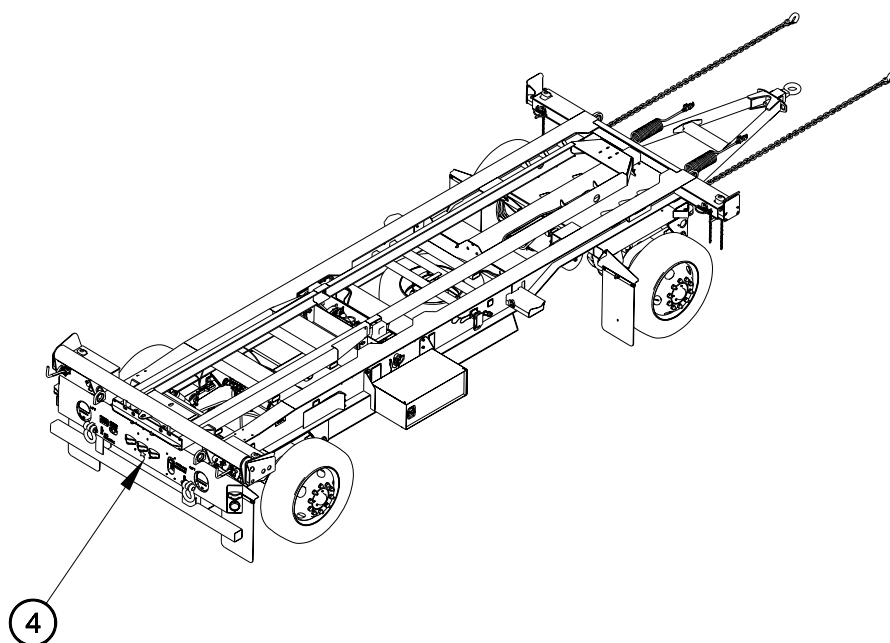
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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

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**0052 00****During** PMCS Procedures for Trailer

These illustrations will help you perform DURING trailer PMCS. The callouts match PMCS item numbers/procedures.



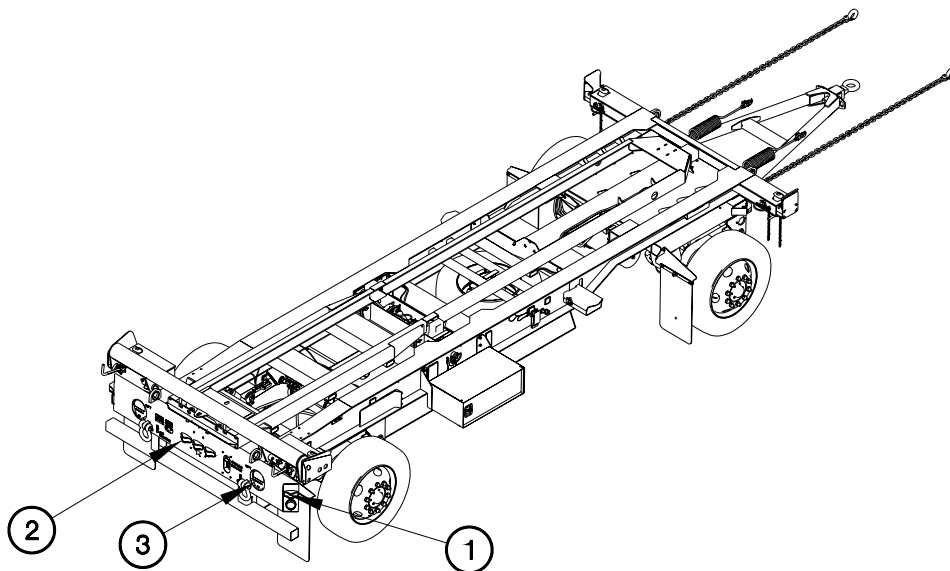
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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00****During** PMCS Procedures for Trailer - Continued**Table 6: Preventive Maintenance Checks and Services (PMCS) - During.**

<b>ITEM NO.</b>	<b>INTERVAL</b>	<b>MAN-HOUR</b>	<b>ITEM TO BE CHECKED OR SERVICED</b>	<b>CREWMEMBER PROCEDURE</b>	<b>EQUIPMENT NOT READY/ AVAILABLE IF:</b>
1	During		Steering With Trailer Coupled to Towing Vehicle	Check for any unusual steering noise, binding, or difficulty in turning during operation.	Steering binds or is unresponsive.
2	During		Service Brakes With Trailer Coupled to Towing Vehicle	<p>1. Check if adequate braking is available to stop trailer during operation.</p> <p>2. Check if trailer is pulled to one side when brakes are applied during operation.</p> <p>3. Listen for unusual noises (chattering, grinding, groaning, or excessive squealing) during braking. Notify Field Level Maintenance if unusual noises are present.</p>	<p>System does not provide adequate braking to trailer.</p> <p>Trailer pulls to one side when brakes are applied.</p>
3	During		Wheel Alignment	Check tracking for indication of wheel misalignment.	Serious wheel misalignment is present.

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00****During** PMCS Procedures for Trailer - Continued**Table 6: Preventive Maintenance Checks and Services (PMCS) - During - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
4	During		Trailer Lights	Check trailer clearance lights (1), marker lights (2), turn signals (3), taillights (3), stoplights (3), and blackout stop lights (3) for proper operation at every rest break (WP 0007 00, Trailer Controls).	One or more marker lights (2), turn signals (3), taillights (3), stoplights (3), and blackout stop lights (3) are not operational.



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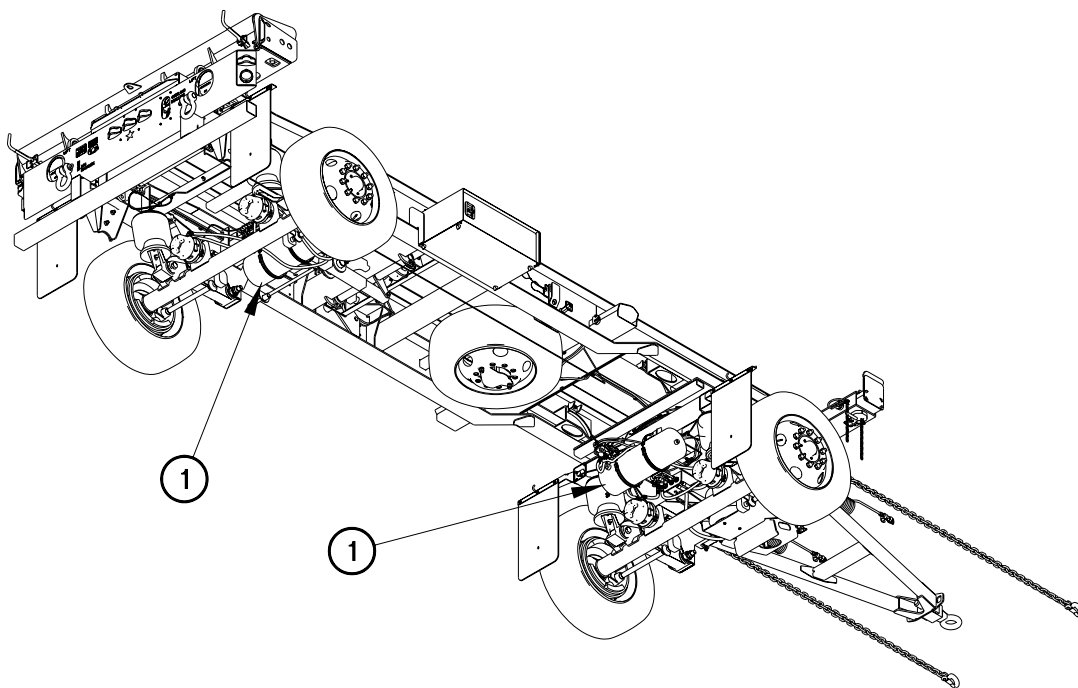
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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

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**0052 00****After** PMCS Procedures for Trailer

These illustrations will help you perform AFTER trailer PMCS. The callouts match PMCS item numbers/procedures.



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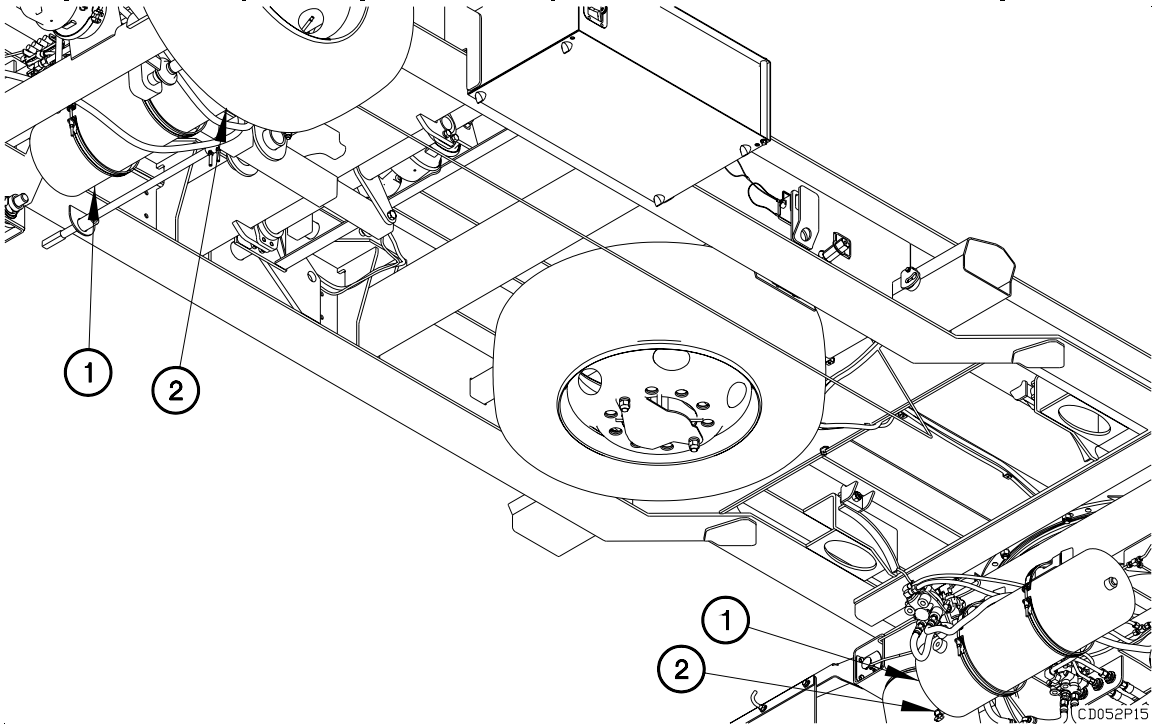
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

After PMCS Procedures for Trailer - Continued

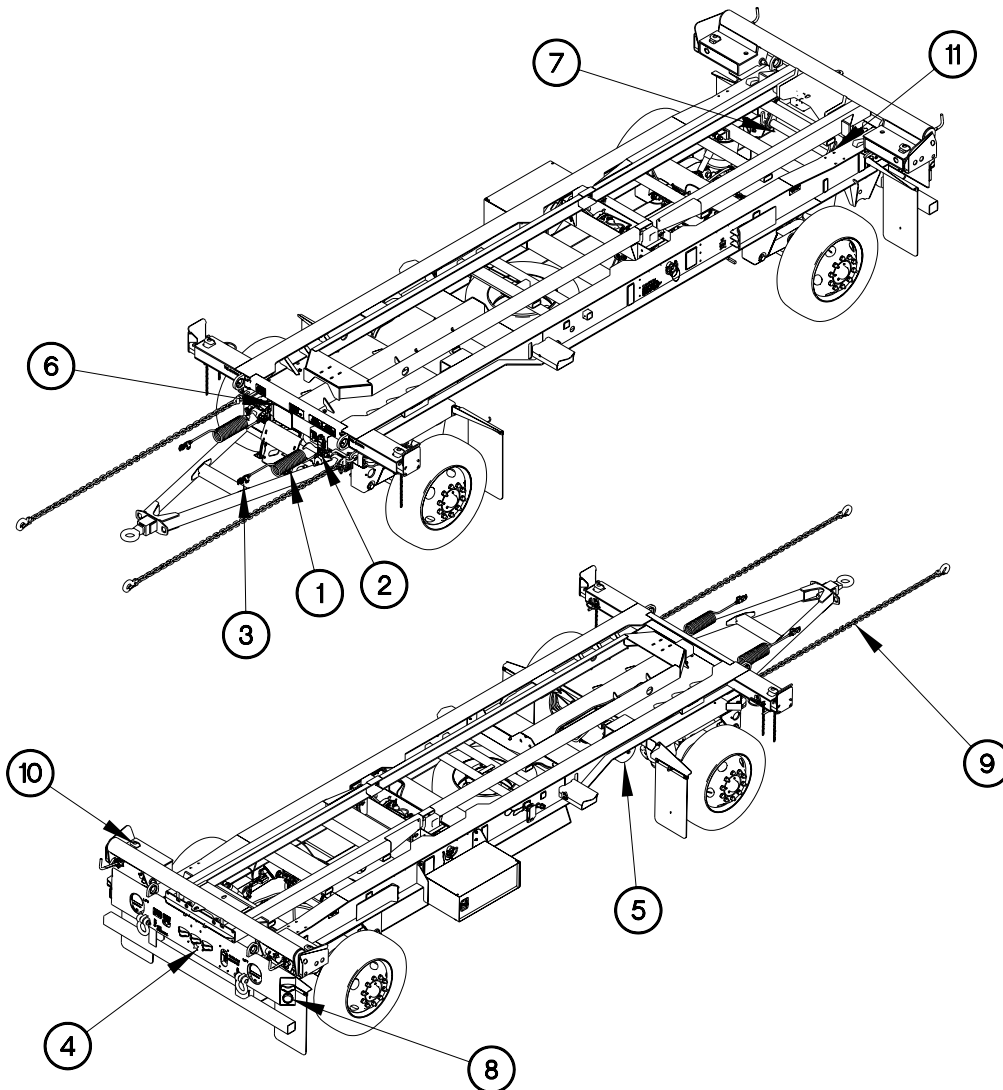
**Table 7: Preventive Maintenance Checks and Services (PMCS) - After.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	After		Air Tanks	<p>1. With trailer parked and towing vehicle engine shut down, listen for sound of air leaks around trailer air tanks (1).</p> <p>2. Open air tank drain valves (2) and drain moisture (WP 0004 00, Draining Air Tanks).</p>	Air leak(s) heard around air tanks.



**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued****0052 00****Weekly** PMCS Procedures for Trailer

These illustrations will help you perform WEEKLY trailer PMCS. The callouts match PMCS item numbers/procedures.



CD052P16

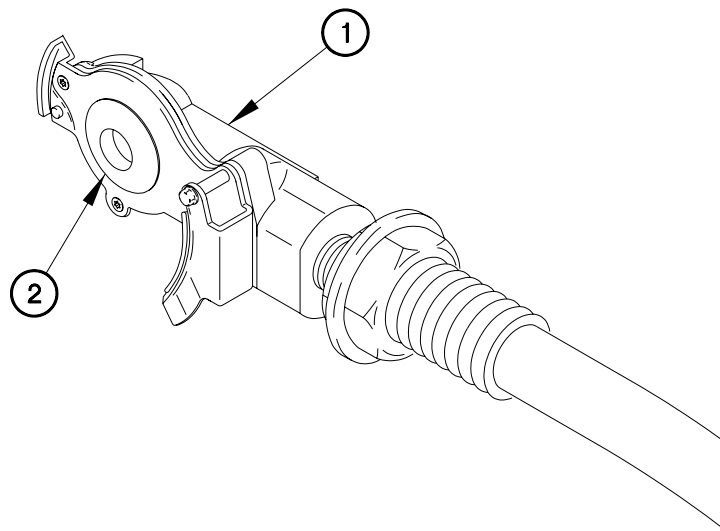
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Weekly PMCS Procedures for Trailer - Continued

**Table 8: Preventive Maintenance Checks and Services (PMCS) - Weekly - Continued.**

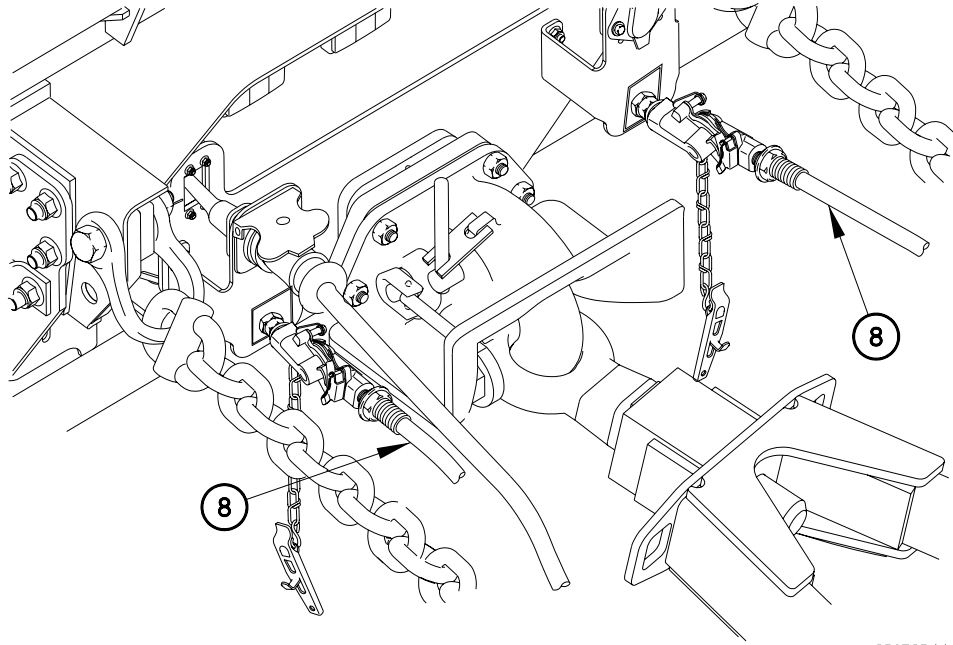
ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Weekly		LH and RH Mounting/ Coupling Hardware and Hoses/ Tubes	<p>Check bolts, nuts, clamps, hoses, and tubes for looseness and missing, broken, or leaking conditions. Tighten loose bolts, nuts, and clamps. If bolts, nuts, clamps, hoses, or tubes are missing, broken, cannot be tightened, or are damaged to the point of leaking, notify Field Level Maintenance. The following should be checked:</p> <p>1. Air intake system, including SERVICE and EMERGENCY gladhand hoses (1).</p>	



CD052P43

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00****Weekly** PMCS Procedures for Trailer – Continued**Table 8: Preventive Maintenance Checks and Services (PMCS) – Weekly.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Weekly		Coupler Seals on Trailer and Towing Vehicle Gladhands	Check that coupler seals (2) on gladhands are free of dirt, sand, or other abrasive materials. Clean if dirt, sand, or other abrasive materials are present (WP 0054 00, General, Table 1. General Cleaning Instructions).	



CD052P44



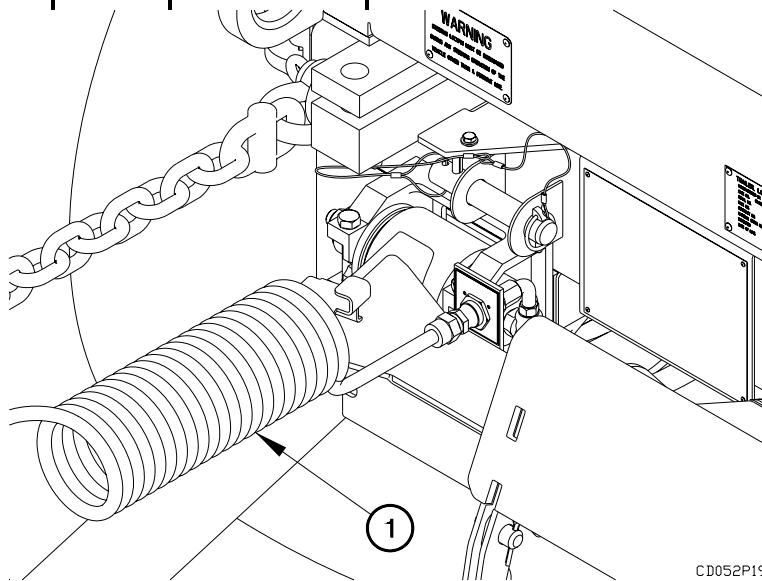
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Weekly PMCS Procedures for Trailer - Continued

**Table 8: Preventive Maintenance Checks and Services (PMCS) – Weekly - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY / AVAILABLE IF:
2	Weekly		LH and RH SERVICE and EMERGENCY Gladhand Hoses with Trailer Coupled to Towing Vehicle	1. Check that SERVICE and EMERGENCY gladhand hoses (1) are securely connected to towing vehicle.	Both SERVICE and EMERGENCY gladhand hoses (1) cannot be securely connected to towing vehicle.



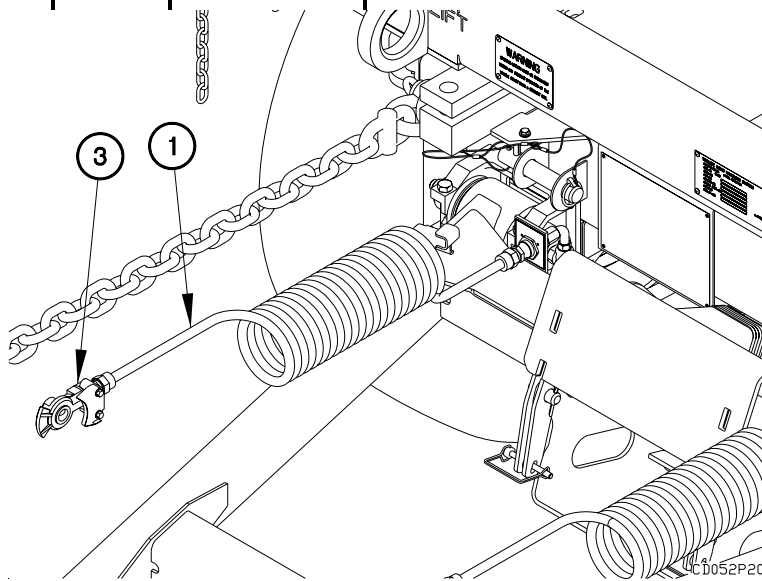
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Weekly PMCS Procedures for Trailer - Continued

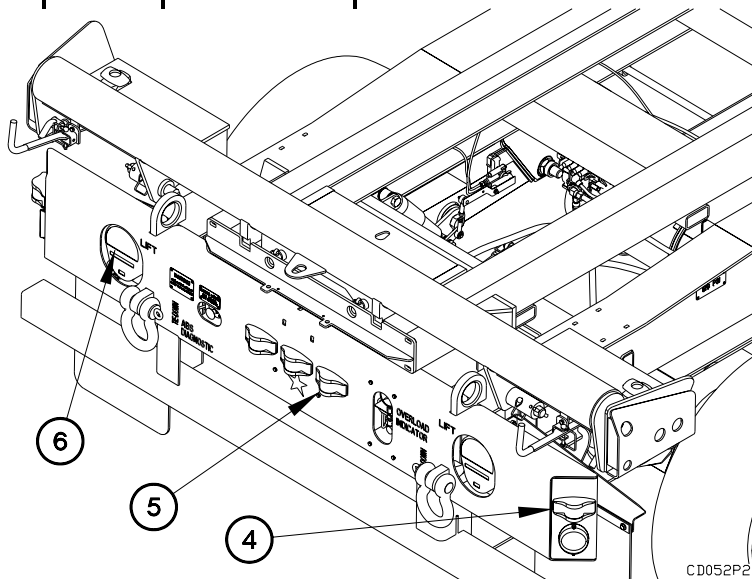
**Table 8: Preventive Maintenance Checks and Services (PMCS) - Weekly - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY / AVAILABLE IF:
3	Weekly		SERVICE and EMERGENCY Gladhand Hoses with Trailer Coupled to Towing Vehicle - Continued	2. Check SERVICE and EMERGENCY gladhand hoses (1) and gladhands (3) for leaks and other obvious damage, such as cuts or breaks.	SERVICE and EMERGENCY gladhand hoses (1) and gladhands (3) are leaking or damaged.



**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00****Weekly** PMCS Procedures for Trailer - Continued**Table 8: Preventive Maintenance Checks and Services (PMCS) - Weekly - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
4	Weekly		Trailer Lights/ABS Diagnostic	<ol style="list-style-type: none"> <li>1. Couple trailer to towing vehicle (move forward for air) (WP 0043 23, Coupling Trailer).</li> <li>2. Position the main light switch of the towing vehicle to the appropriate position.</li> <li>3. Check trailer clearance lights (4), marker lights (5), turn signals (6), taillights (6), stoplights (6), and blackout lights (6) for damage and proper operation (WP 0004 00, Controls).</li> </ol>	One or more trailer marker lights (5), turn signals (6), taillights (6), stoplights (6), and blackout stop lights (6) are missing, damaged, or not operational.



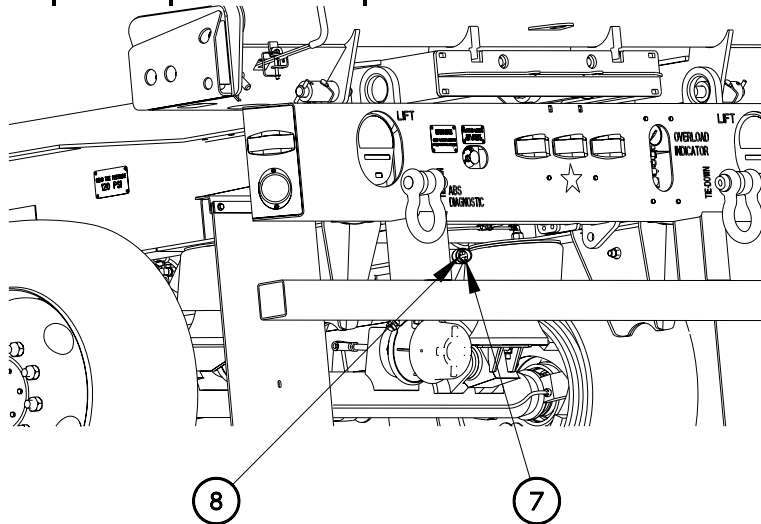
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

**Weekly** PMCS Procedures for Trailer - Continued

**Table 5: Preventive Maintenance Checks and Services (PMCS) - Weekly - Continued**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY / AVAILABLE IF:
4	Weekly		Trailer Lights/ABS Diagnostic Continued.	4. Press blink code button on ABS diagnostic connector (7) once for one second and release the button. If there are no faults the LED (8) will go off, come back on and remain on. If there are faults, the LED will flash (blink).	If the ABS diagnostic LED (8) flashes (blinks).



CD052P22

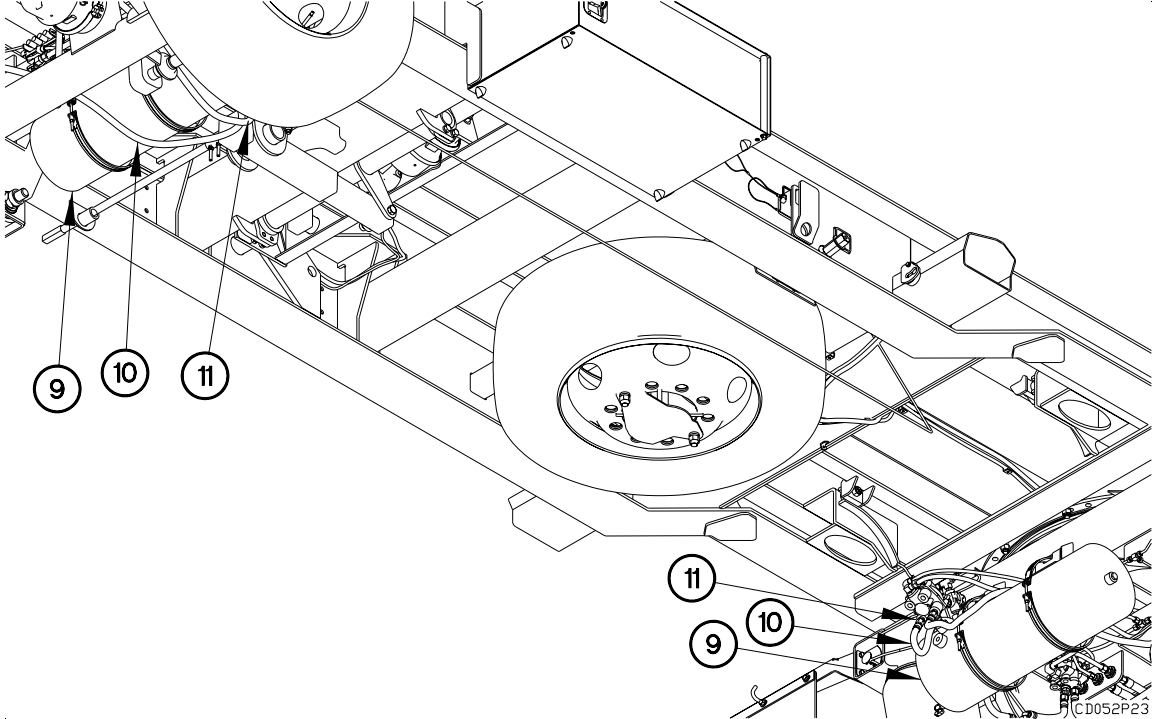
# **PREVENTIVE MAINTENANCE CHECKS AND SERVICES, INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Weekly PMCS Procedures for Trailer - Continued

**Table 8: Preventive Maintenance Checks and Services (PMCS) - Weekly - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
5	Weekly		Mounting/ Coupling Hardware and Hoses/ Tubes - Continued	Check front and rear air tanks (9) for damage. Check air hoses (10) and tubes for chafing, bends, kinks or damaged fittings (11). Notify Field Maintenance if fittings are damaged.	Fittings (11) are damaged or hoses (10) are damaged to the point of leaking air.



CD052P23

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

**0052 00**

**Weekly** PMCS Procedures for Trailer - Continued

**Table 8: Preventive Maintenance Checks and Services (PMCS) - Weekly - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
6	Weekly		Turntable	Check bolts (12) and nuts (13) for looseness, missing, or broken conditions. Tighten loose bolts and nuts. If bolts and nuts are missing, broken, cannot be tightened, notify Field Level Maintenance.	Bolts (12) or nuts (13) are loose, missing, or broken.

The diagram illustrates the turntable assembly. Callout 12 points to a bolt on the turntable frame, and callout 13 points to a nut on the turntable frame. Two warning labels are shown: one for the turntable frame and one for the front twist locks and flatrack lock. The technical drawing shows the turntable mechanism with a large coil of wire and a chain.

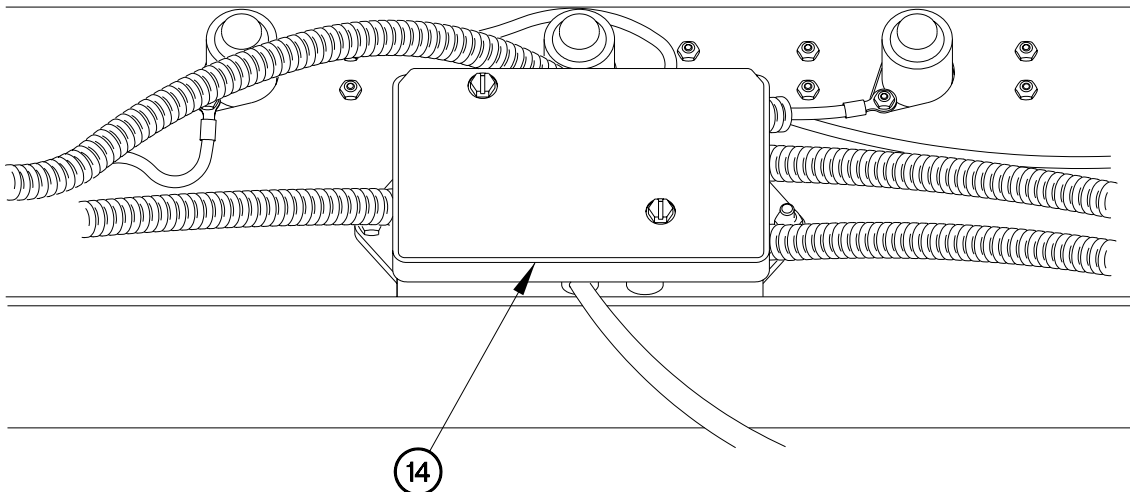
**WARNING**  
FAILURE TO ENGAGE AND LOCK ALL TWIST LOCKS MAY RESULT IN THE CONTAINER FALLING.

**WARNING**  
FAILURE TO ENGAGE AND LOCK FRONT TWIST LOCKS AND FLATRACK LOCK MAY RESULT IN THE FLATRACK FALLING.

CD052P24

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00****Weekly** PMCS Procedures for Trailer - Continued**Table 8: Preventive Maintenance Checks and Services (PMCS) - Weekly - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY / AVAILABLE IF:
7	Weekly		Electrical Connectors	Check electrical connectors and covers (14) for damage.	Electrical connectors are damaged.



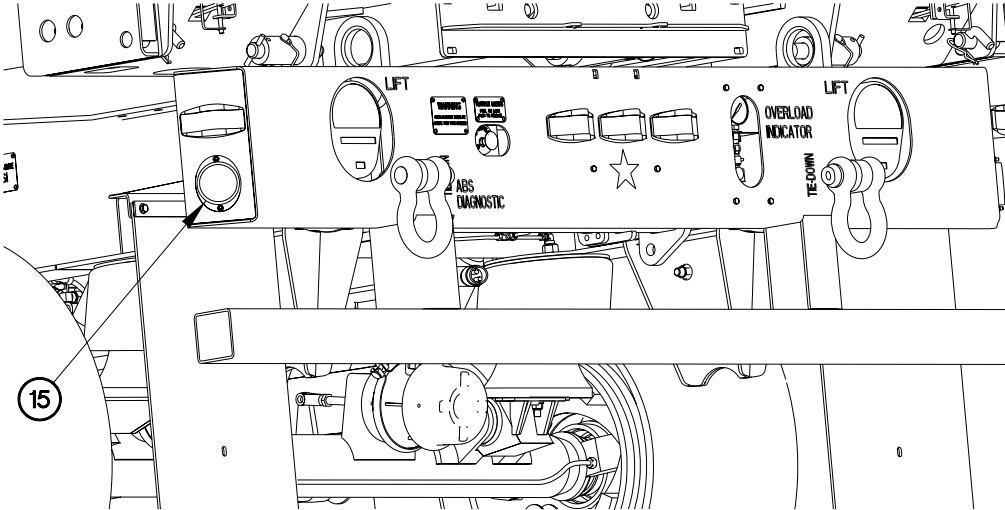
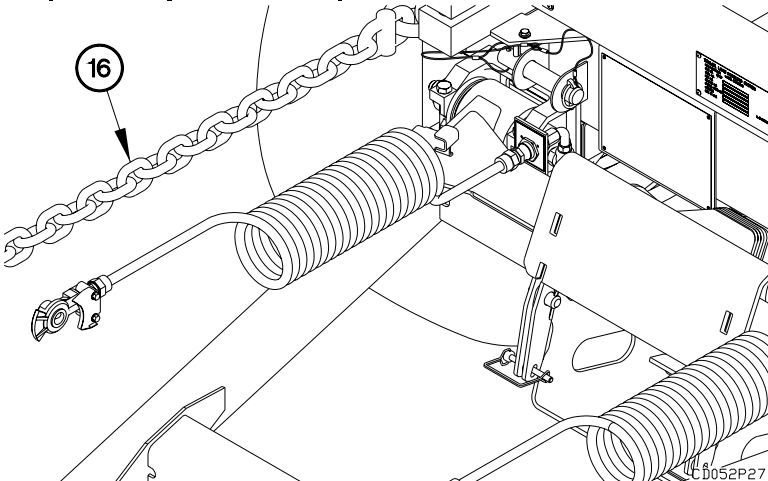
CD052P25

# **PREVENTIVE MAINTENANCE CHECKS AND SERVICES, INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Weekly PMCS Procedures for Trailer - Continued

**Table 8: Preventive Maintenance Checks and Services (PMCS) - Weekly - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
8	Weekly		Reflectors	Check for missing or damaged reflectors (15).	
					
9	Weekly		Safety Chains	Check safety chains (16) for looseness and/or damaged fastening mechanism.	One or both safety chains is damaged.
					



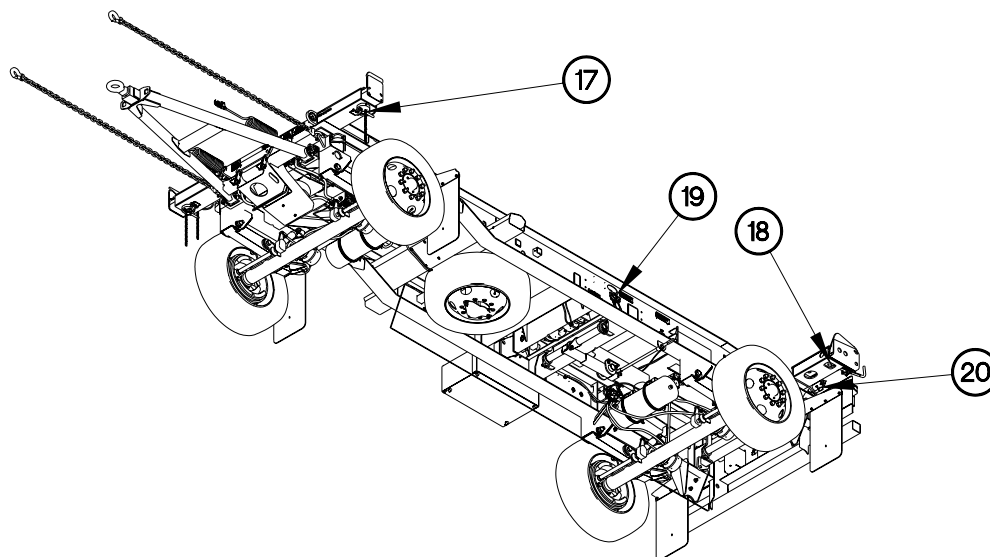
# **PREVENTIVE MAINTENANCE CHECKS AND SERVICES, INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

**Weekly** PMCS Procedures for Trailer - Continued

**Table 8: Preventive Maintenance Checks and Services (PMCS) - Weekly - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:		
10	Weekly	.1	Twistlocks/ Rockshaft Pivots/ Lockpins/ and Pivot Pins	1. Inspect Twistlocks (17), Rockshaft Pivots (18), Lockpins (19), and Pivot pins (20) for damage.	Damage is present.		
				2. Clean and lubricate twistlocks (17), Rockshaft Pivots (18), Lockpins (19), and Pivot Pins (20).			
				<b>Oil Can Points</b> As Required			
				<b>Temperatures</b>			
				Above 40° F (4° C)		40° to -15°F (4° to -26° C)	-15° to -50°F (-26° to -46° C)
				WD-40		WD-40	WD-40



CD052P28

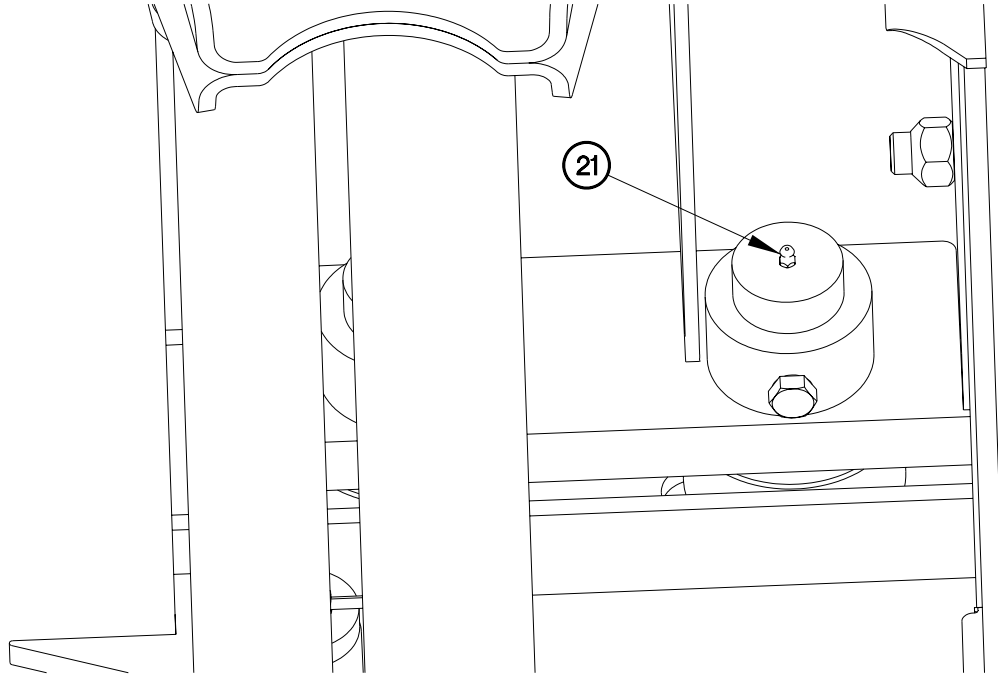
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Weekly PMCS Procedures for Trailer - Continued

**Table 8: Preventive Maintenance Checks and Services (PMCS) - Weekly - Continued.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
11	Weekly	.1	Shuttle Rollers	1. Lubricate shuttle rollers (21).	
				<b>Lubrication fittings</b> As Required	
				<b>Temperatures</b>	
				Above 40° F (4° C)	
				40° to -15°F (4° to -26° C)	
				-15° to -50°F (-26° to -46° C)	
				GAA	GAA
				GAA	GAA



The diagram shows a side view of a trailer's internal structure, specifically the area where shuttle rollers are located. A circular roller is mounted on a vertical support. A callout circle containing the number '21' has a line pointing to a small, circular lubrication fitting on the top of the roller. The roller is positioned between two horizontal tracks. The entire assembly is supported by a vertical frame.

CD052P29

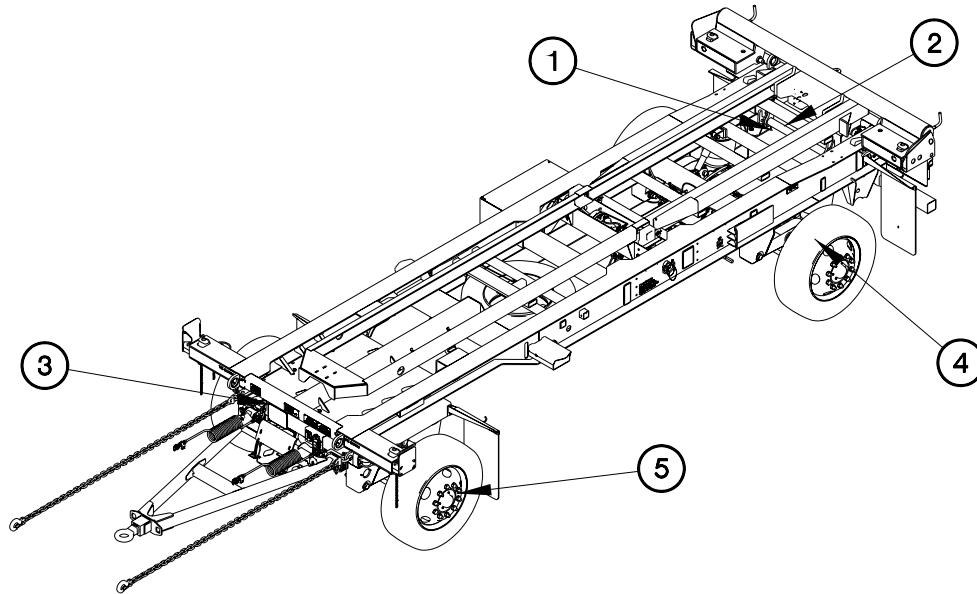
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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

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**0052 00****Monthly** PMCS Procedures for Trailer

These illustrations will help you perform MONTHLY trailer PMCS. The callouts match PMCS item numbers/procedures.



CD052P30

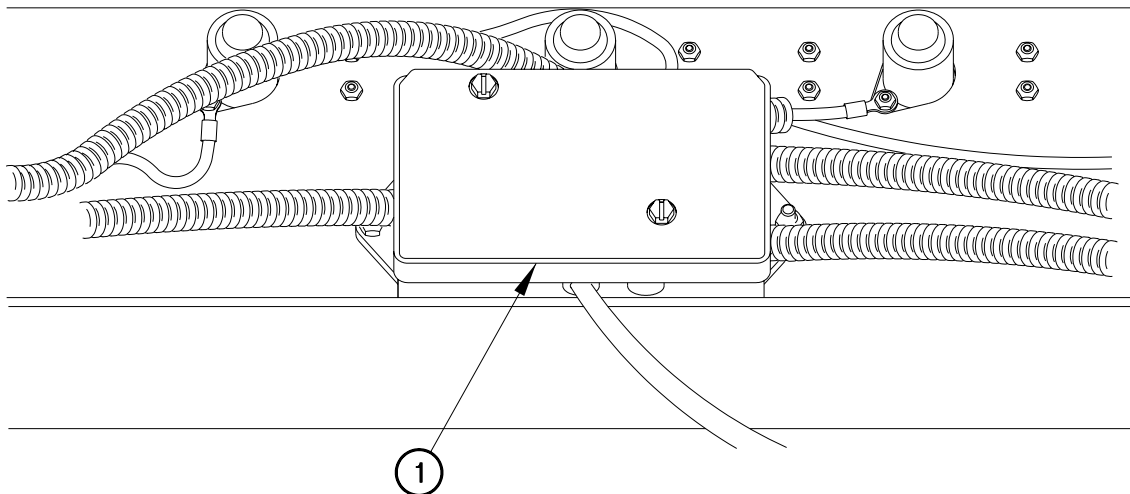
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Monthly PMCS Procedures for Trailer - Continued

**Table 9: Preventive Maintenance Checks and Services (PMCS) - Monthly.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Monthly		Mounting/ Coupling Hardware and Hoses/ Tubes	Check bolts, nuts, clamps, hoses, and tubes for looseness and missing, broken, or leaking conditions. Tighten loose bolts, nuts, and clamps. If bolts, nuts, clamps, hoses, or tubes are missing, broken, cannot be tightened, or are damaged to the point of leaking, notify Field Level Maintenance. The following should be checked:	
2	Monthly		Electrical Connectors	Check electrical connectors and covers (1) for damage.	Electrical connectors are damaged.



CD052P31

# **PREVENTIVE MAINTENANCE CHECKS AND SERVICES, INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

## **Monthly PMCS Procedures for Trailer - Continued**

**Table 9: Preventive Maintenance Checks and Services (PMCS) - Monthly.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
3	Monthly	.2	Turntable	1. Check bolts (2) and nuts (3) for looseness, missing, or broken conditions. Tighten loose bolts and nuts. If bolts and nuts are missing, broken, cannot be tightened, notify Field Level Maintenance.  2. Lubricate turntable (4).	Bolts (2) or nuts (3) are loose, missing, or broken.

Lubrication points As Required		
Temperatures		
Above 40° F (4° C)	40° to -15°F (4° to -26° C)	-15° to -50°F (-26° to -46° C)
???	???	???

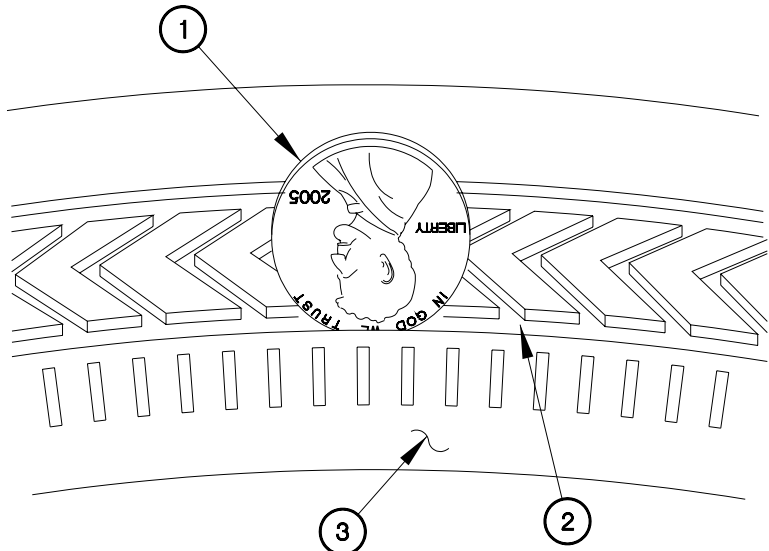
# **PREVENTIVE MAINTENANCE CHECKS AND SERVICES, INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

## **Monthly PMCS Procedures for Trailer - Continued**

**Table 9: Preventive Maintenance Checks and Services (PMCS) - Monthly.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
4	Monthly	.1	Wheels and Tires (all four)	1. Using a penny (5), insert upside down in the most shallow tread groove (6). If the top of Lincoln's head remains visible (approximately 0.0625 inches or 1.6 mm), tire (7) should be replaced.	Top of Lincoln's head remains visible.

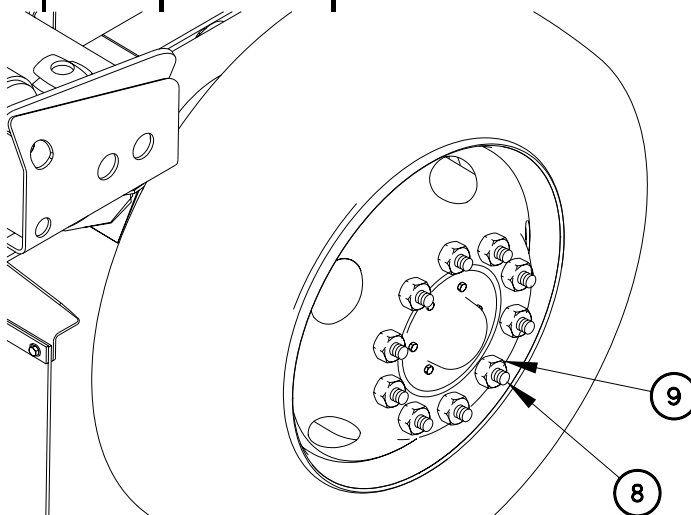


5	Monthly		Brake System	<div>1. Lubricate slack adjusters cam shafts, and cam shaft bushings (WP 0076 00).</div> <table><tr><th colspan="3">Lubrication points As Required</th></tr><tr><th colspan="3">Temperatures</th></tr><tr><td>Above 40° F (4° C)</td><td>40° to -15°F (4° to -26° C)</td><td>-15° to -50°F (-26° to -46° C)</td></tr><tr><td>GAA</td><td>GAA</td><td>GAA</td></tr></table>	Lubrication points As Required			Temperatures			Above 40° F (4° C)	40° to -15°F (4° to -26° C)	-15° to -50°F (-26° to -46° C)	GAA	GAA	GAA	
Lubrication points As Required																	
Temperatures																	
Above 40° F (4° C)	40° to -15°F (4° to -26° C)	-15° to -50°F (-26° to -46° C)															
GAA	GAA	GAA															

CD052P33

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00****Monthly** PMCS Procedures for Trailer - Continued**Table 5: Preventive Maintenance Checks and Services (PMCS) - Monthly.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	CREWMEMBER PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
6	Monthly		Wheels and Tires (all four) - Continued	<p>2. Check wheel assembly for damage. If damaged, remove wheel and check wheel for cracked, broken, or bent surfaces.</p> <p>3. Check wheel studs (8) and nuts (9) for obvious looseness. Check for bent or broken studs and missing or loose nuts. Notify Field Level Maintenance if any nuts are loose or missing or if any studs are broken or bent.</p>	<p>Wheel is cracked, broken, or bent.</p> <p>Two or more studs (8) or nuts (9) on same wheel are missing, loose, or broken.</p>



CD052P34

4. Check tire pressures with tire inflator/gage for 120 psi (cold).

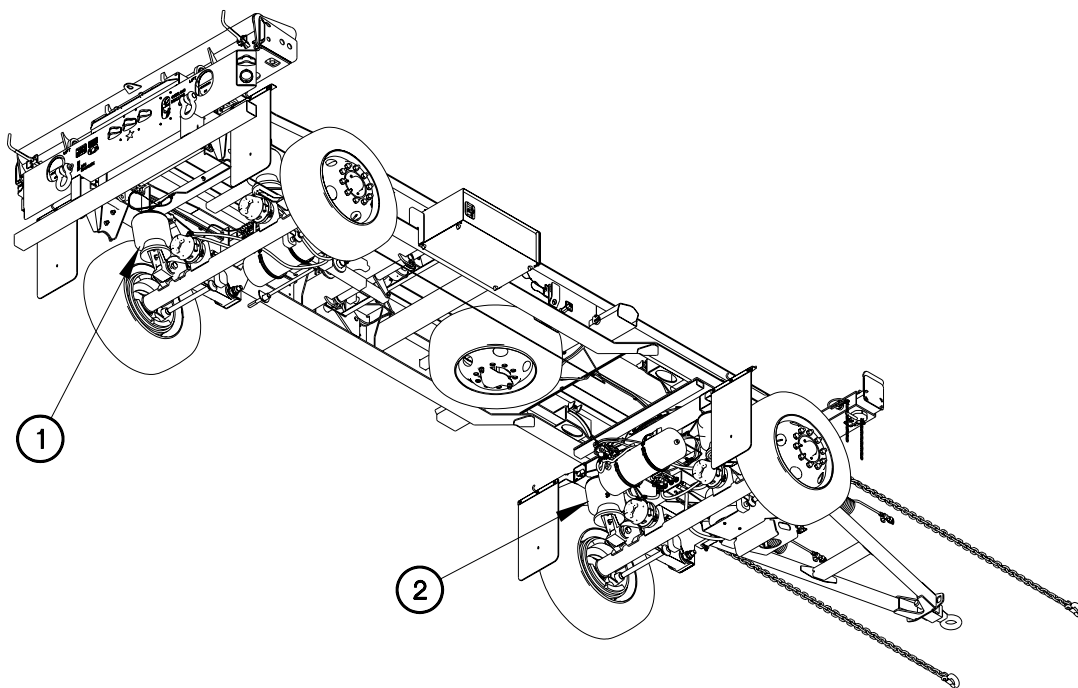
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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

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**0052 00****Quarterly** PMCS Procedures for Trailer (Field Level)

These illustrations will help you perform QUARTERLY (Field Level) trailer PMCS. The callouts match PMCS item numbers/procedures.



CD052P35



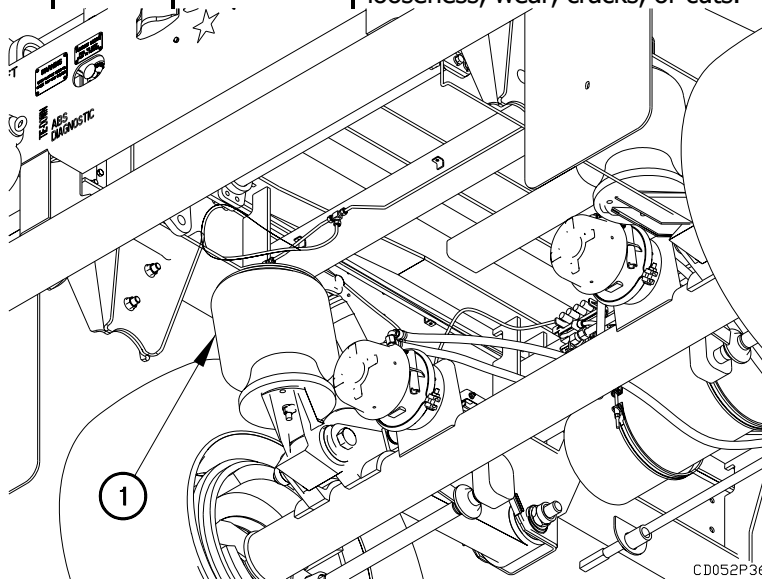
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

**Quarterly** PMCS Procedures for Trailer - Continued

**Table 5: Preventive Maintenance Checks and Services (PMCS) - Quarterly.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	FIELD-LEVEL MAINTENANCE PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Quarterly		Air Bag Suspension	<p>1. Couple trailer to towing vehicle and charge air system (WP 0043 23).</p> <p>2. Check air bags (1), suspension components, and attaching hardware for any sign of damage, looseness, wear, cracks, or cuts.</p>	Attaching hardware is loose or air bags (1) are cracked, cut or unable to hold 75 psi.



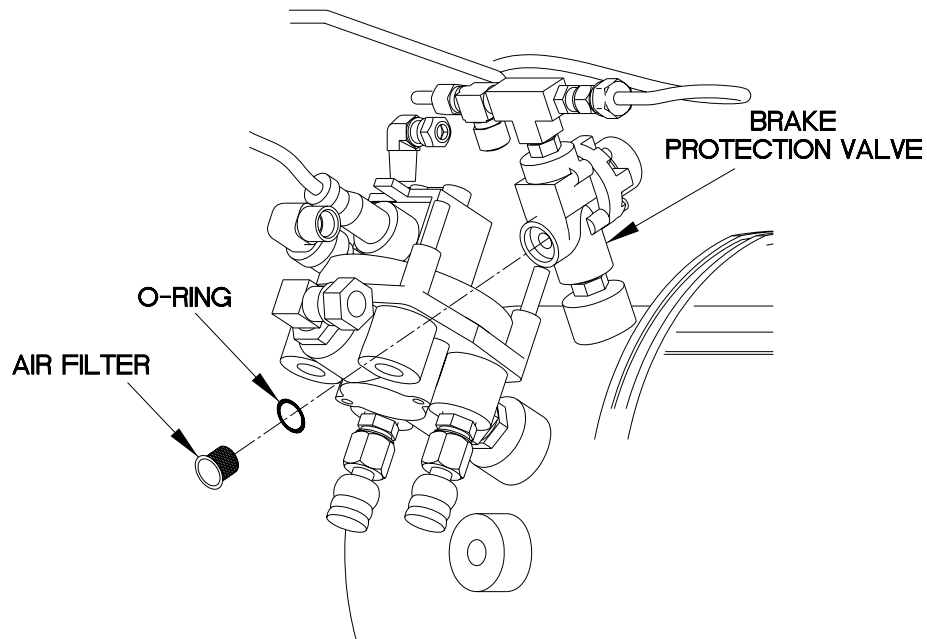
# **PREVENTIVE MAINTENANCE CHECKS AND SERVICES, INCLUDING LUBRICATION INSTRUCTIONS**

0052 00

**Quarterly** PMCS Procedures for Trailer - Continued

**Table 5: Preventive Maintenance Checks and Services (PMCS) - Quarterly.**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	FIELD-LEVEL MAINTENANCE PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
2	Quarterly		Brake Protection Valve	Remove and replace air filters from both brake protection valves.	



CD052P45

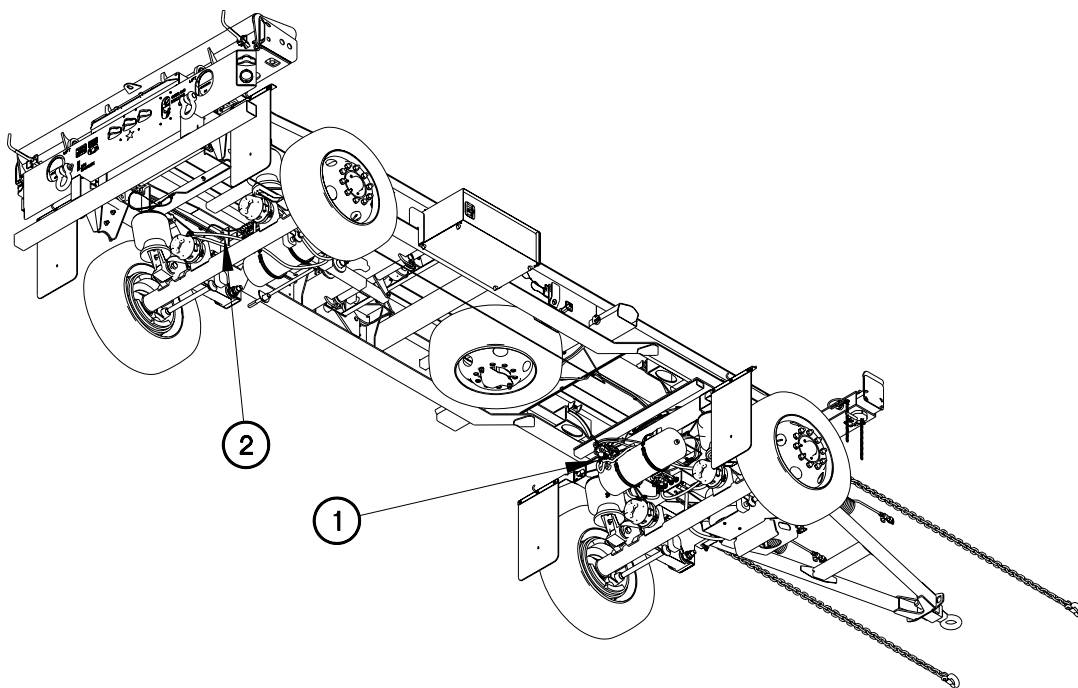
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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

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**0052 00****Semiannual** PMCS Procedures for Trailer (Field Level)

These illustrations will help you perform SEMIANNUAL (Field Level) trailer PMCS. The callouts match PMCS item numbers/procedures.



CD052P37

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00**

Semiannual PMCS Procedures for Trailer (Field Level) - Continued

**Table 10: Preventive Maintenance Checks and Services (PMCS) - Semiannual (Field Level).**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	FIELD-LEVEL MAINTENANCE PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Semiannual		Relay Valves	1. Inspect relay valves (1) and hoses (2) for chafing, bends, kinks, or damaged fittings (3). Notify Field Maintenance if fittings are damaged.	Hoses (2) are bent, kinked, or damaged. Fittings (3) are damaged.
<p>The diagram illustrates the hydraulic system of a trailer. It shows a large cylindrical tank (likely a hydraulic reservoir) with various hoses and fittings connected to it. Three specific components are labeled with circled numbers: (1) points to a relay valve, (2) points to a hose, and (3) points to a fitting. The diagram is a technical line drawing showing the layout of these components on the trailer's chassis.</p> <p style="text-align: right;">CD052P38</p>					

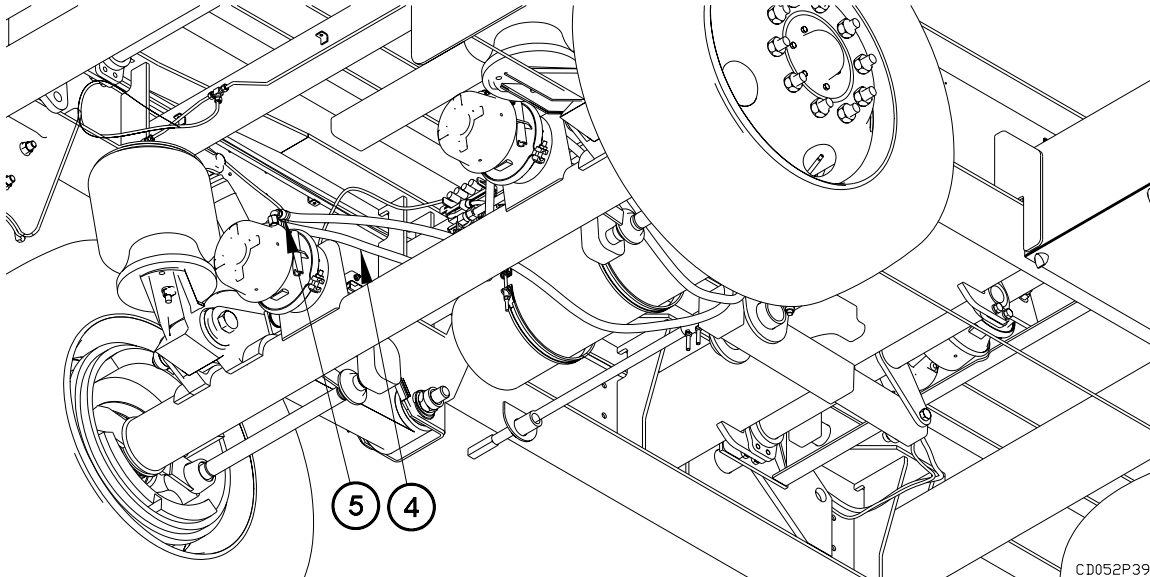
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**

0052 00

Semiannual PMCS Procedures for Trailer (Field Level) - Continued

**Table 10: Preventive Maintenance Checks and Services (PMCS) - Semiannual (Field Level).**

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	FIELD-LEVEL MAINTENANCE PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
2	Semiannual		Brake System (Front and Rear)	1. Check air hoses (4) for chafing, bends, kinks, or damaged fittings (5). Notify Field Maintenance if fittings are damaged.	Fittings (5) are damaged or hoses (4) are damaged to the point of leaking air.



CD052P39

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES,  
INCLUDING LUBRICATION INSTRUCTIONS - Continued**
**0052 00**

Semiannual PMCS Procedures for Trailer - Continued

**Table 5: Preventive Maintenance Checks and Services (PMCS) – Semiannual - Continued**

<b>ITEM NO.</b>	<b>INTERVAL</b>	<b>MAN-HOUR</b>	<b>ITEM TO BE CHECKED OR SERVICED</b>	<b>CREWMEMBER PROCEDURE</b>	<b>EQUIPMENT NOT READY/ AVAILABLE IF:</b>
2	Semiannual		Brake System – Continued	1. Check bolts, nuts, clamps, hoses, and tubes for looseness and missing, broken, or leaking conditions. Tighten loose bolts, nuts, and clamps. If bolts, nuts, clamps, hoses, or tubes are missing, broken, cannot be tightened, or are damaged to the point of leaking, notify Field Level Maintenance. The following should be checked:	
		8	Hub and Drum	2. Notify Field Level Maintenance to perform brake adjustment (WP 0069 00).  3. Notify Field Level Maintenance to perform hub lube replacement and to inspect and lubricate wheel bearings (WP 0085 00).	
		6	Air Ride Suspension	1. Notify Field Level Maintenance to check torque of air ride suspension bracket to 800 ft-lbs (WP 0083 00).	

**END OF WORK PACKAGE**

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**CHANGING/SERVICING SPARE TIRE**

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**0053 00****THIS WORK PACKAGE COVERS:**Removal, Installation, Operational Checks

---

**INITIAL SETUP:****Maintenance Level**

Operator

**Personnel**

(2)

**Tools and Special Tools**

Inflator, Gage (Item 9, WP 0167 00)  
Jack, Dolly Type, Hydraulic (Item 10, WP  
0167 00)  
Wrench, Lug (BII)  
Wheel Chock (2)(BII)

**Equipment Conditions**

Trailer uncoupled (TM 9-2320-392-10)

**Reference**

TM 9-2320-392-10-1  
TM 9-4910-687-14&P

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**GENERAL**

This work package contains information and instructions about replacing, servicing, and checking air pressure of tires.

**LOWER SPARE TIRE**

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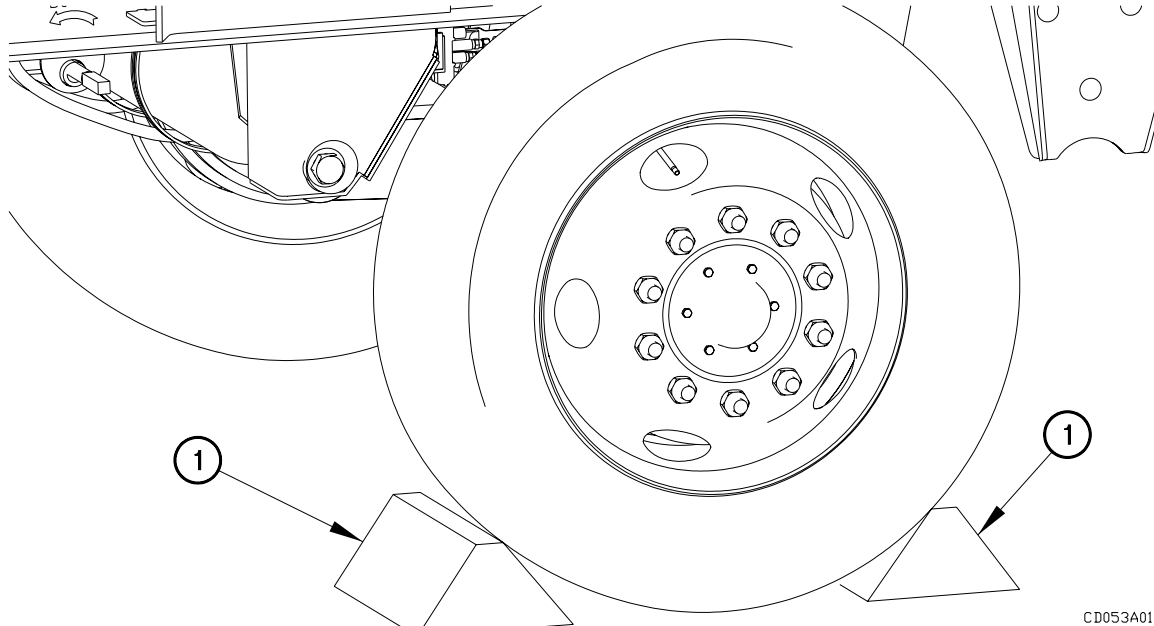
**WARNING**

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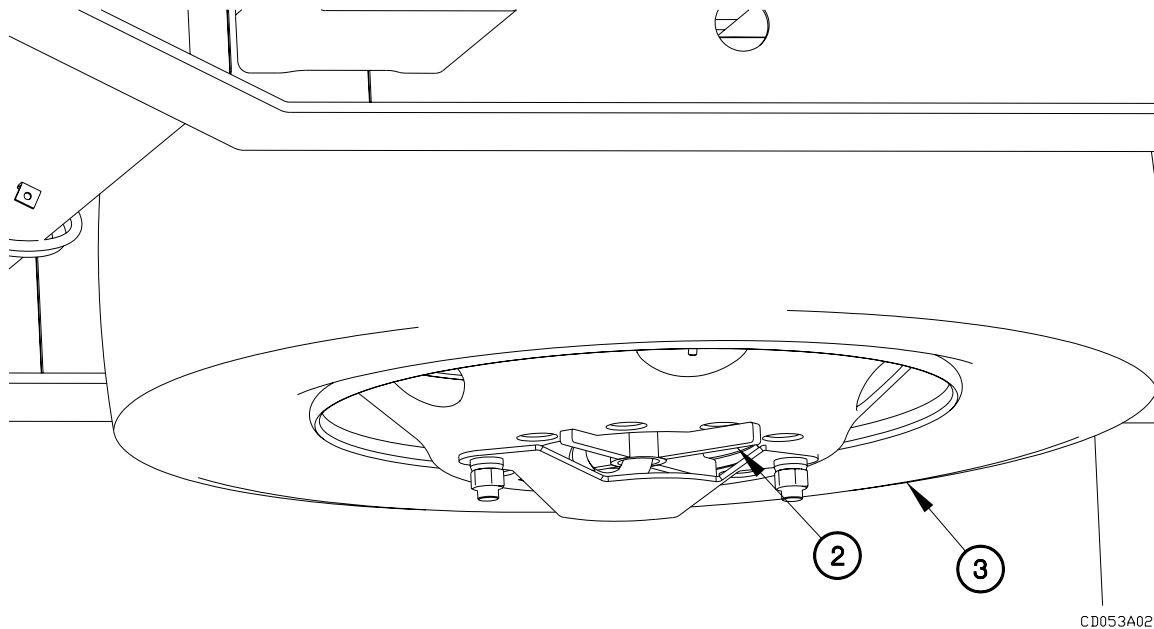
**Ensure trailer is parked on level ground before changing flat tire. Trailer may roll. Failure to comply may result in injury or death to personnel.**

**CHANGING/SERVICING SPARE TIRE - Continued****0053 00****LOWER SPARE TIRE - Continued**

1. Install two wheel chocks (1) on tire opposite side of flat tire.



2. Check that lift bracket (2) is in place on spare tire (3).

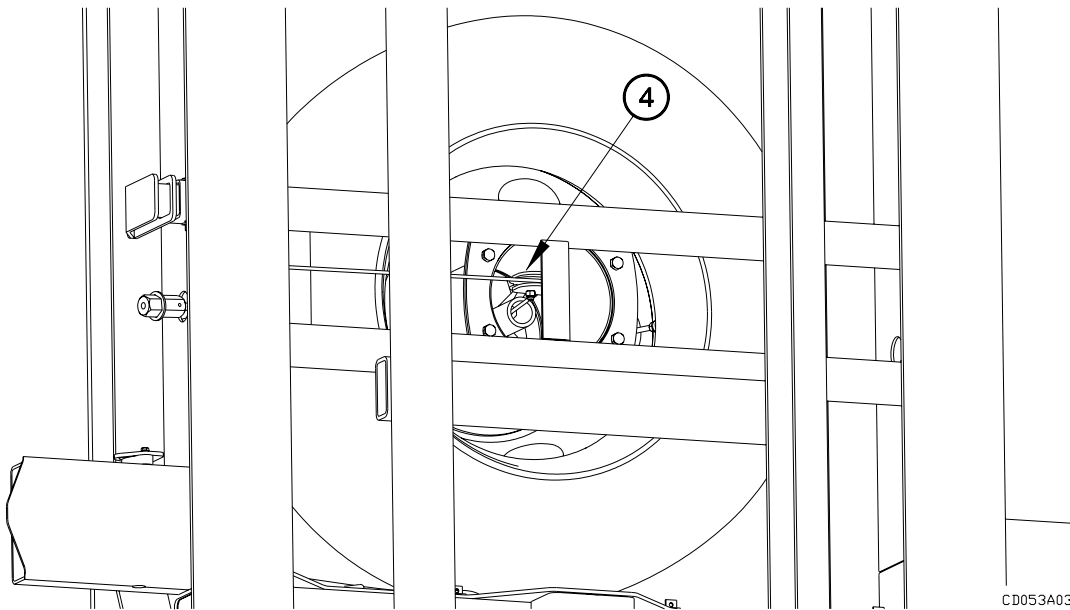




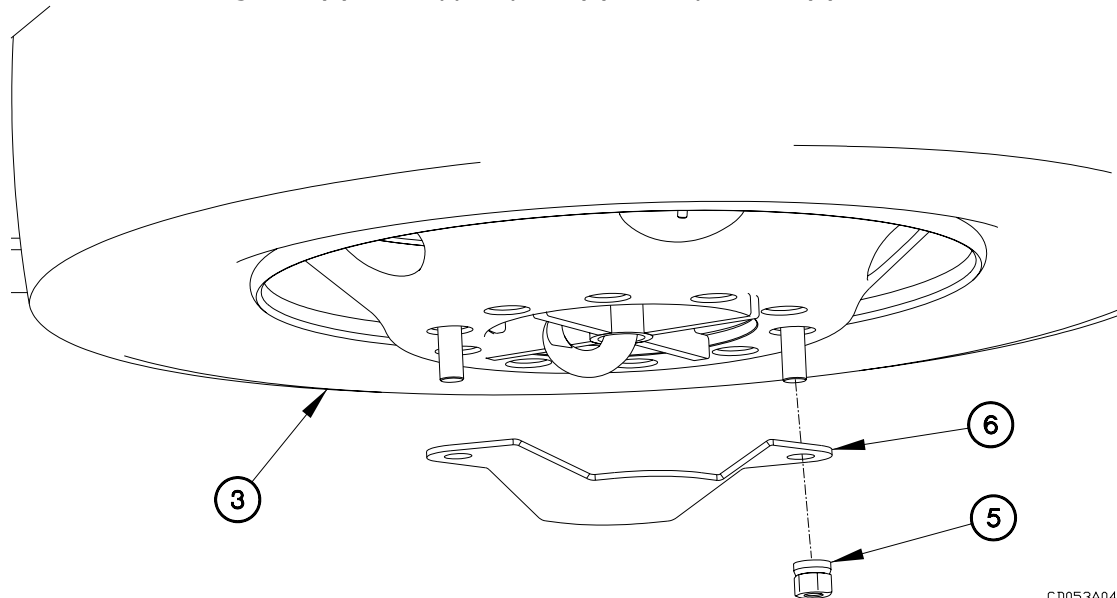
**LOWER SPARE TIRE - Continued****WARNING**

**Wear heavy leather-palmed work gloves when handling cable. Cables can become frayed or contain broken wires. Never let moving cable slide through hands, even when wearing gloves. Failure to comply may result in injury to personnel.**

3. Check that winch cable (4) is snug.

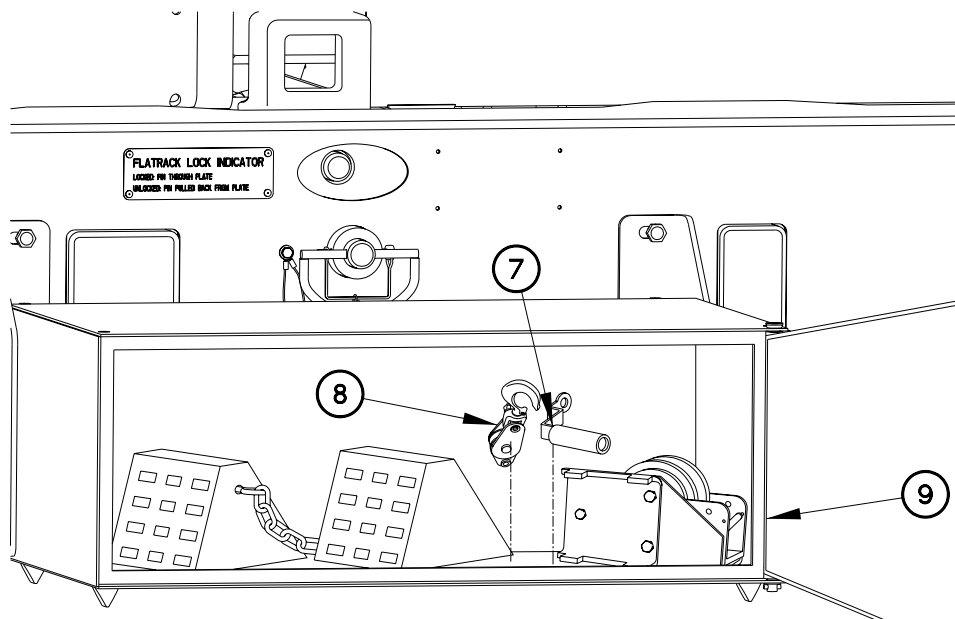


4. Remove two lug nuts (5) and support plate (6) from spare tire (3).



**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****LOWER SPARE TIRE - Continued**

5. Remove winch crank (7) and snatch block (8) from tool box (9).



CD053A05

**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****LOWER SPARE TIRE - Continued**

6. Install winch crank (7) on rod (10).

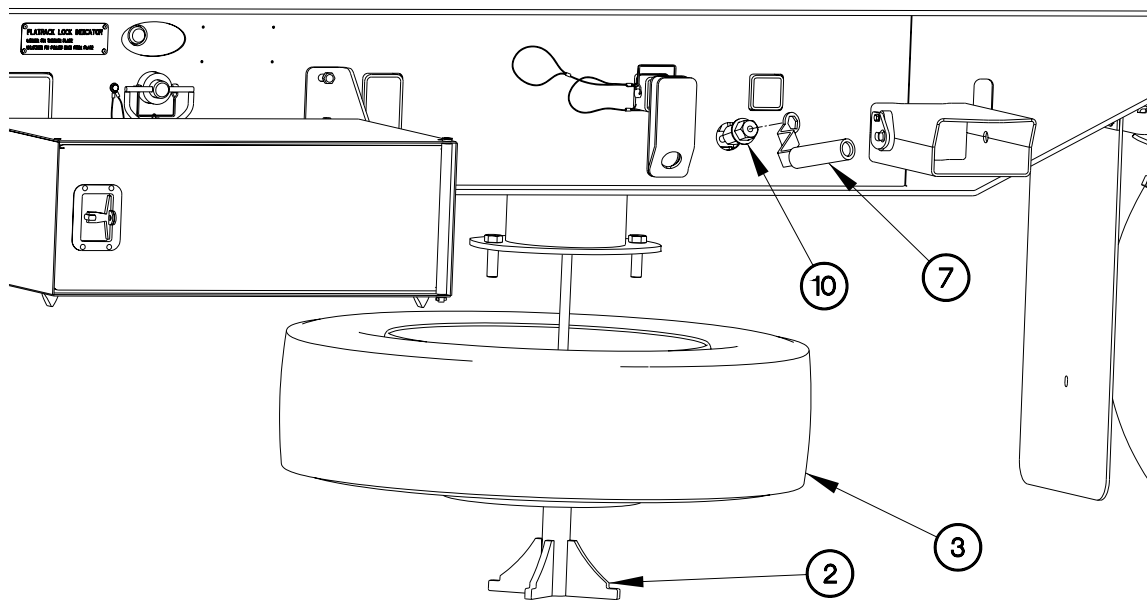
**WARNING**

**Have an assistant hold the tire level while lowering to the ground. If not held level, tire could come loose from lift bracket and fall. Failure to comply may result in injury to personnel.**

**NOTE**

The following step requires the aid of an assistant.

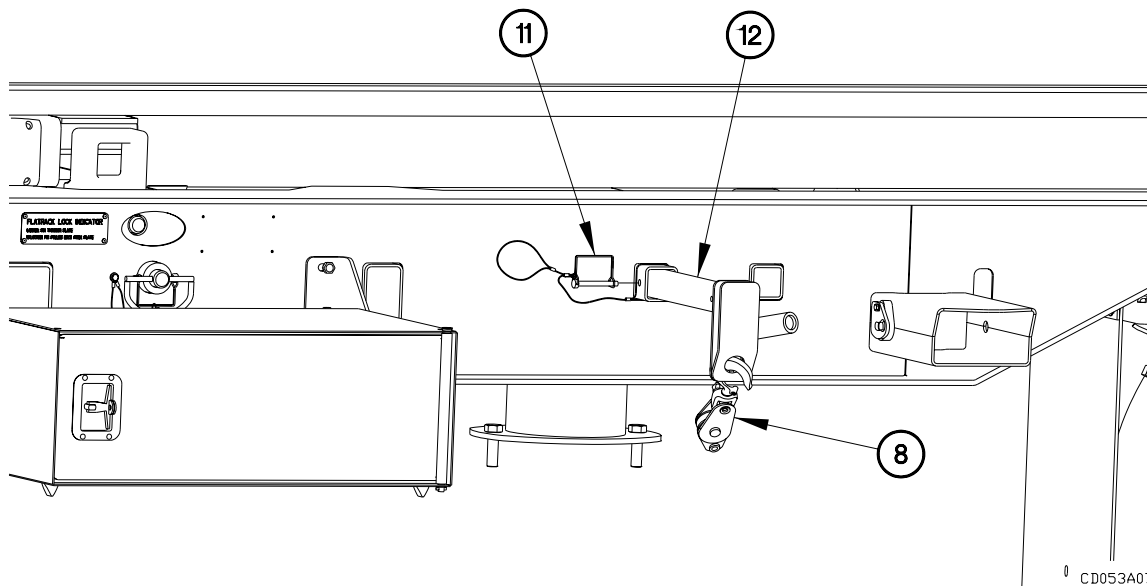
7. Turning winch crank (7) counter-clockwise, lower spare tire (3) to ground.
8. Remove lift bracket (2) from spare tire (3).



CD053A06

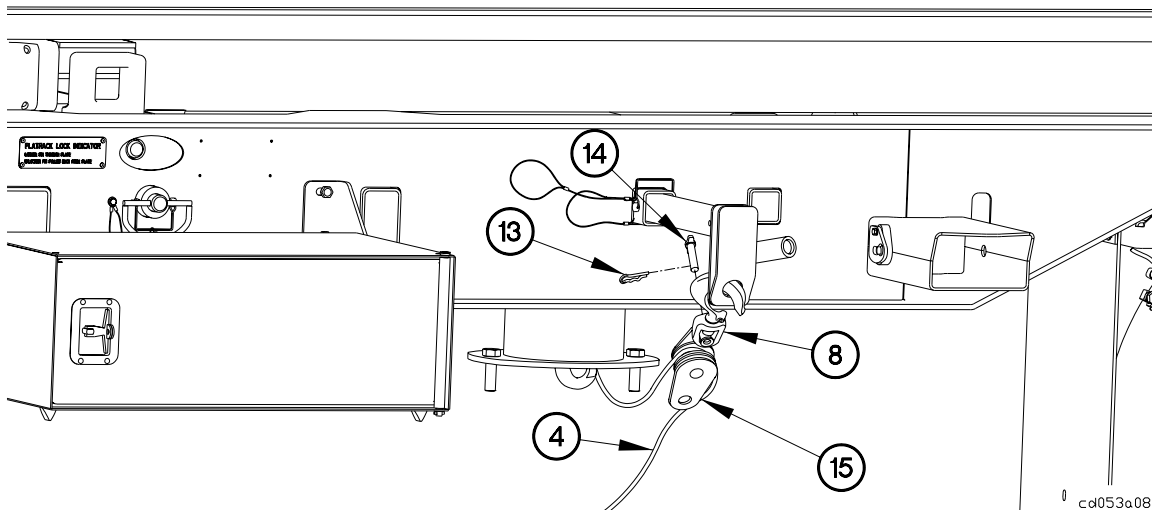
**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****LOWER SPARE TIRE - Continued**

9. Remove safety pin (11) from spare tire outrigger (12).
10. Extend spare tire outrigger (12) out fully.
11. Install safety pin (11) in spare tire outrigger (12).
12. Install snatch block (8) on spare tire outrigger (12).



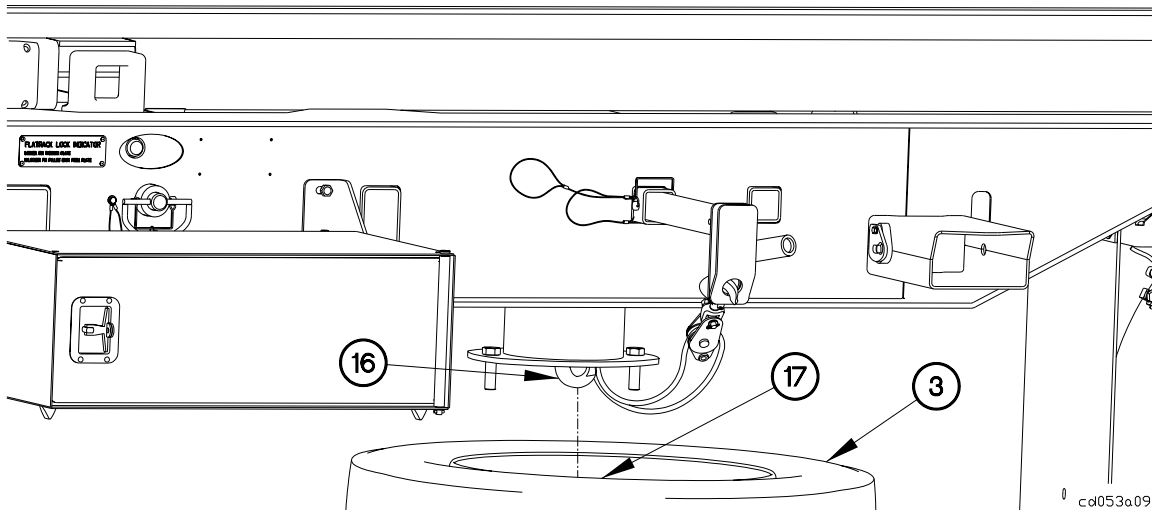
**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****LOWER SPARE TIRE - Continued**

13. Remove retaining pin (13) from pin (14).
14. Remove pin (14) and retaining plate (15) from snatch block (8).
15. Pay out winch cable (4) over snatch block (8).
16. Install retaining plate (15) on snatch block (8) with pin (14).
17. Install retaining pin (13) in pin (14).



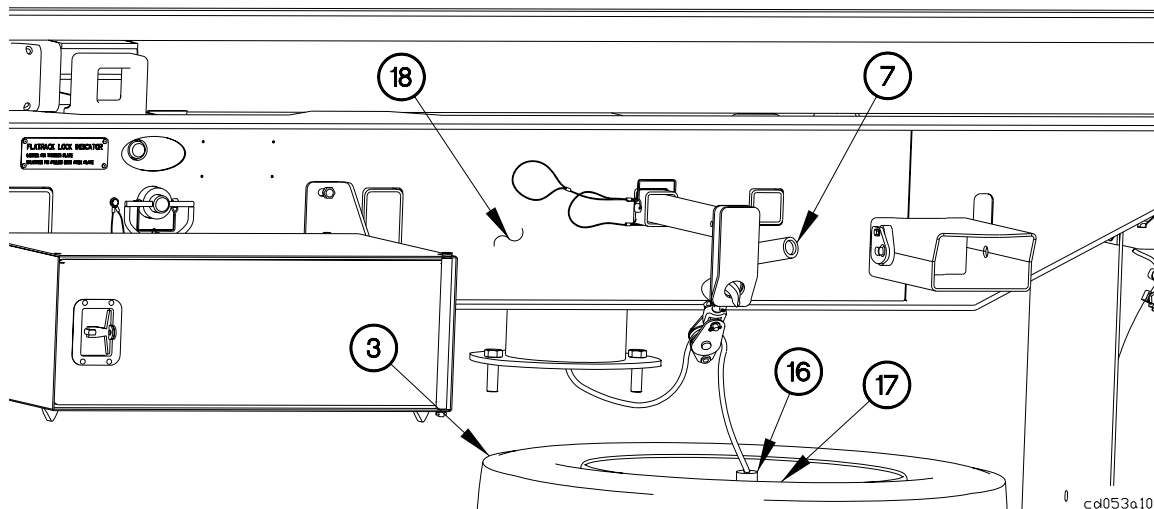
**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****LOWER SPARE TIRE - Continued**

18. Install hook (16) on mounting hole (17) on spare tire (3).



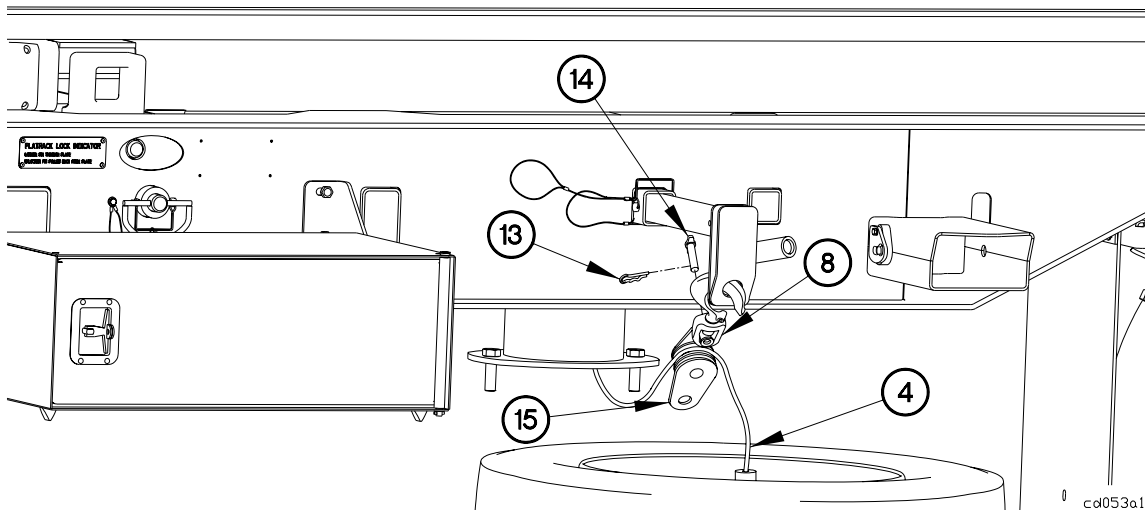
19. Turning winch crank (7) clockwise, remove spare tire (3) from under trailer (18).

20. Remove hook (16) from mounting hole (17) on spare tire (3).



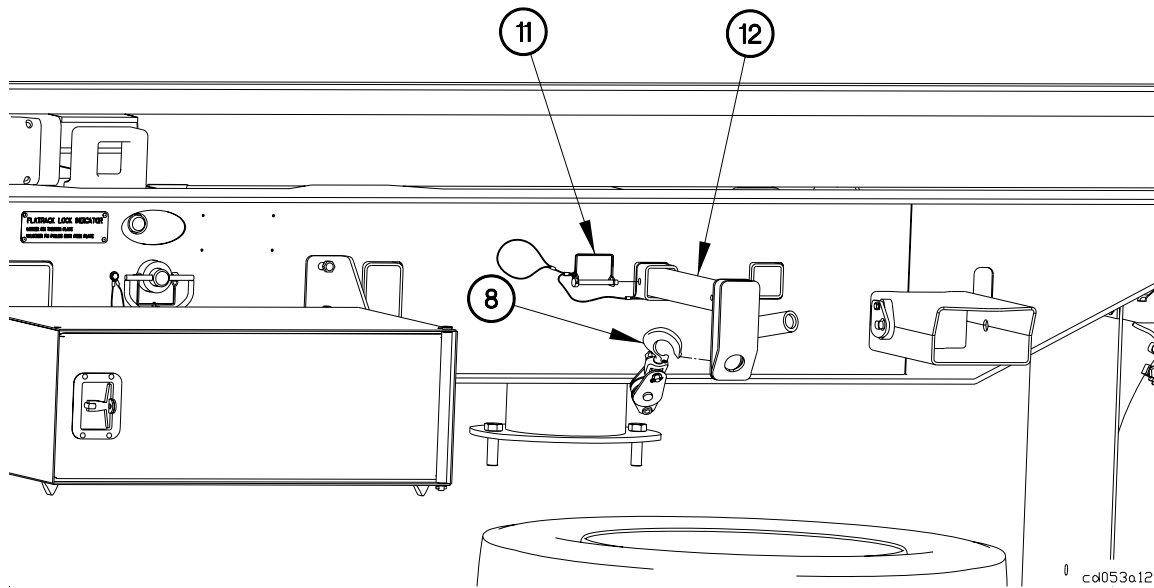
**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****LOWER SPARE TIRE - Continued**

21. Remove retaining pin (13) from pin (14).
22. Remove pin (14) and retaining plate (15) from snatch block (8).
23. Remove winch cable (4) from snatch block (8).
24. Install retaining plate (15) on snatch block (8) with pin (14).
25. Install retaining pin (13) in pin (14).

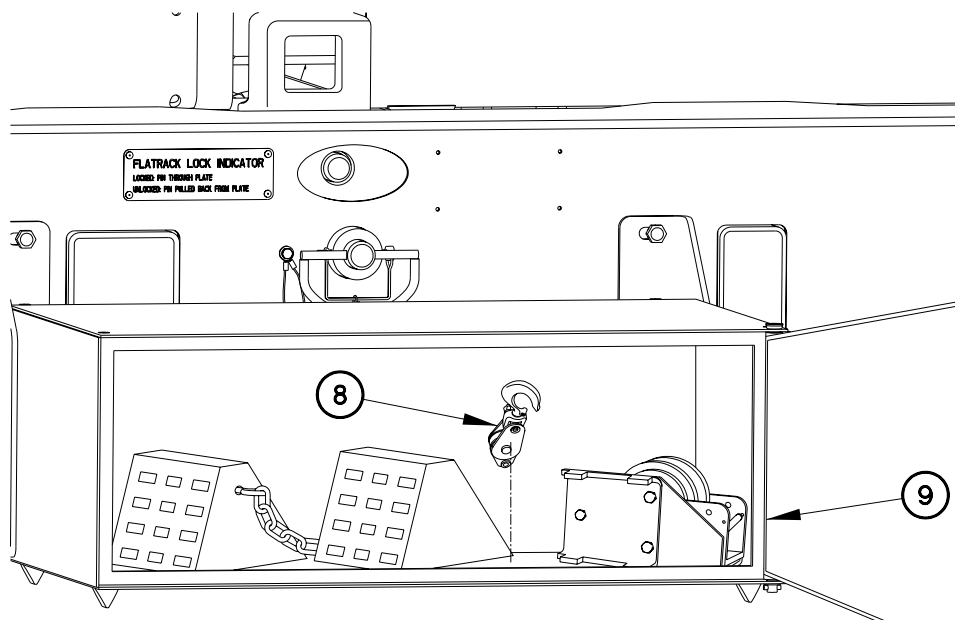


**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****LOWER SPARE TIRE - Continued**

26. Remove snatch block (8) from spare tire outrigger (12).
27. Remove safety pin (11) from spare tire outrigger (12).
28. Push spare tire outrigger (12) in fully.
29. Install safety pin (11) in spare tire outrigger (12).



30. Store snatch block (8) in tool box (9).



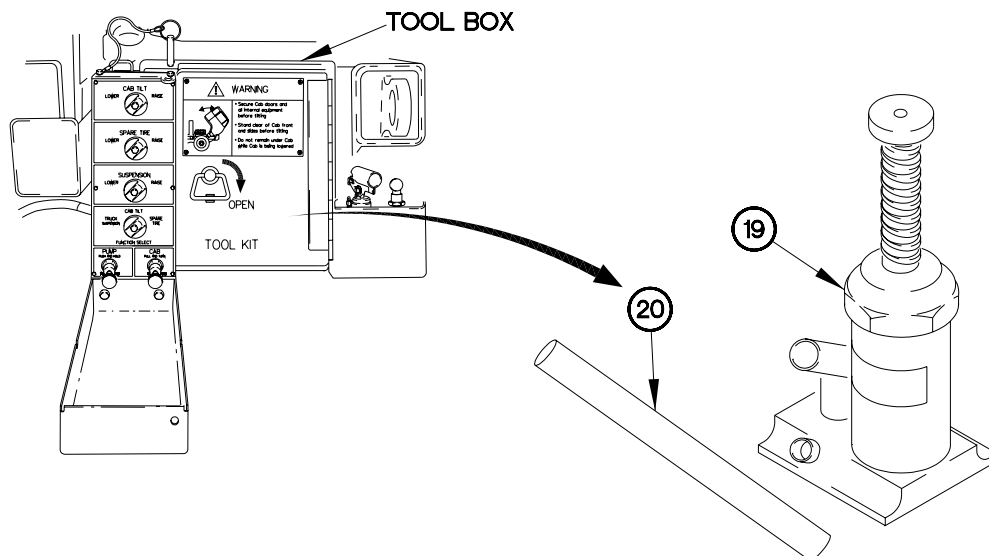


**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****TIRE REMOVAL****WARNING**

**Place hydraulic jack on flat surface. Do not allow personnel under trailer when jacking. Failure to comply may result in serious injury or death to personnel.**

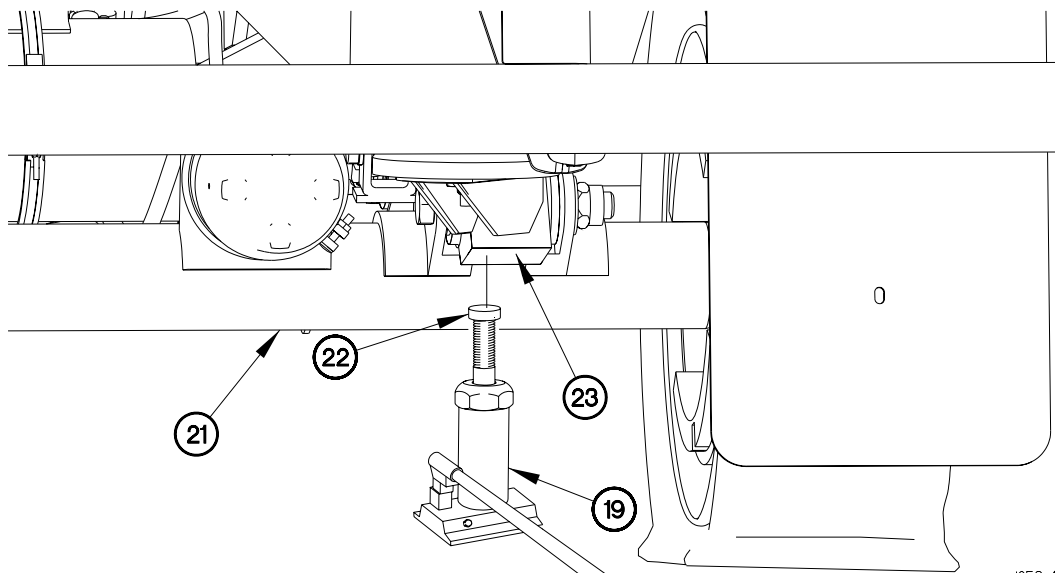
**Handle flat tire assembly with care. Failure to comply may result in injury to personnel.**

1. Remove jack (19) and handle (20) from tool box of towing vehicle.



cd053a14

2. Position jack (19) under axle (21).
3. Unscrew jack ram (22) until it touches air bag bracket (23) on axle (21).



cd053a15

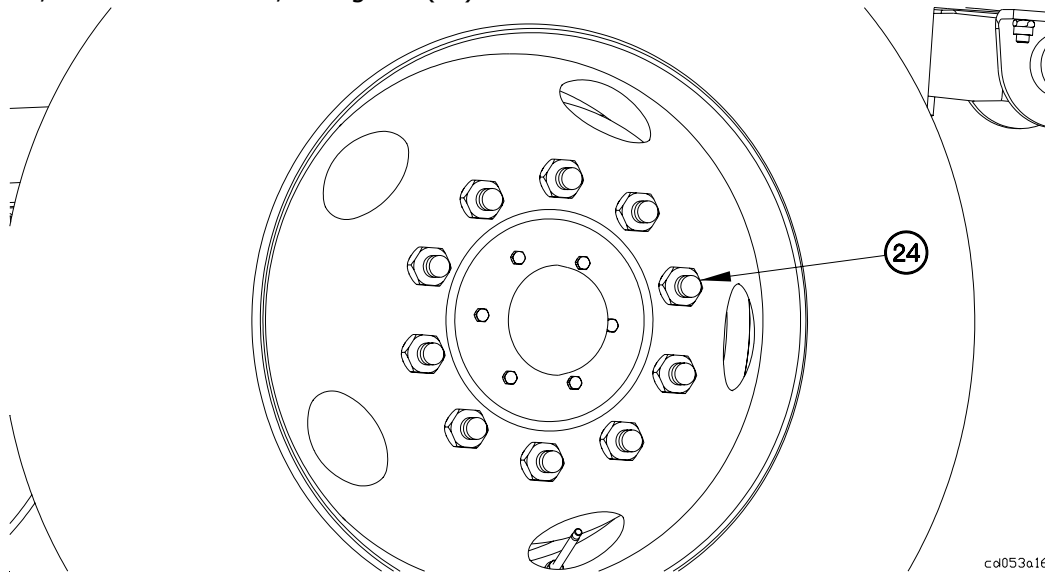
**TIRE REMOVAL-Continued****NOTE**

All tires are removed the same way.

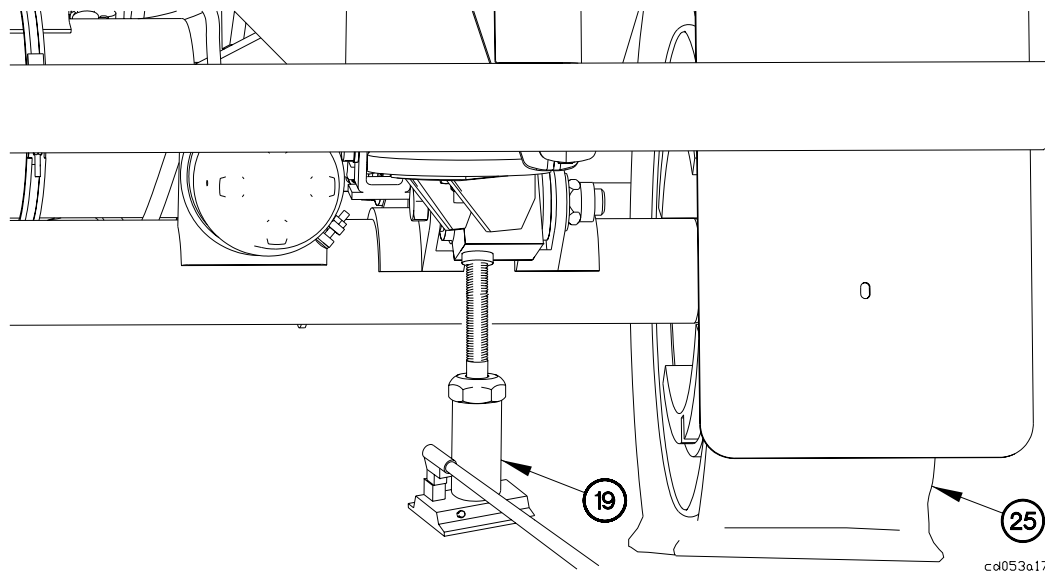
Wheel stud and lugnuts on left side of trailer have left-hand threads. Rotate lugnuts clockwise to loosen, and counterclockwise to tighten.

Wheel studs and lugnuts on right side of trailer have right-hand threads. Rotate lugnuts counterclockwise to loosen, clockwise to tighten.

4. Loosen, but do not remove, 10 lugnuts (24).



5. Raise jack (19) until flat tire (25) is off ground.



**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****TIRE REMOVAL - Continued****WARNING**

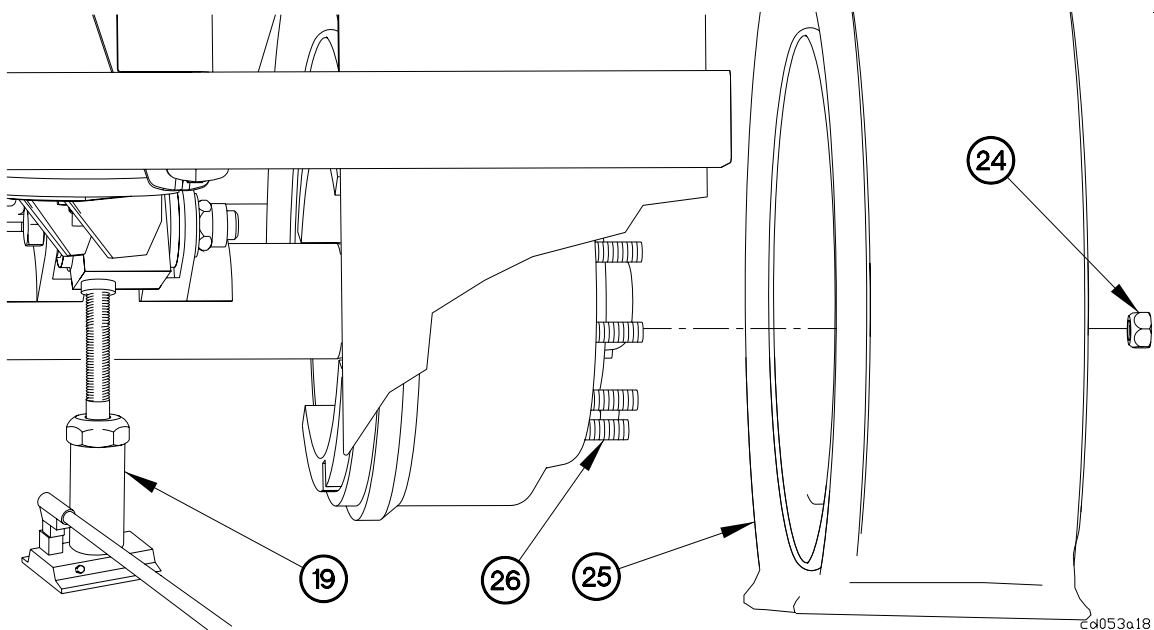
**Tire weighs approximately 100 lbs (45 kgs). Use caution when handling tire. Failure to comply may result in injury to personnel.**

6. Remove 10 lugnuts (24) from flat tire (25).
7. While assistant holds flat tire (25), lower jack (19) until flat tire is just touching ground.

**CAUTION**

Do not drag tire across wheel studs during removal. Failure to comply may result in damage to equipment.

8. Pull top of flat tire (25) outward while assistant raises jack (19) slightly.
9. Remove flat tire (25) from wheel studs (26).

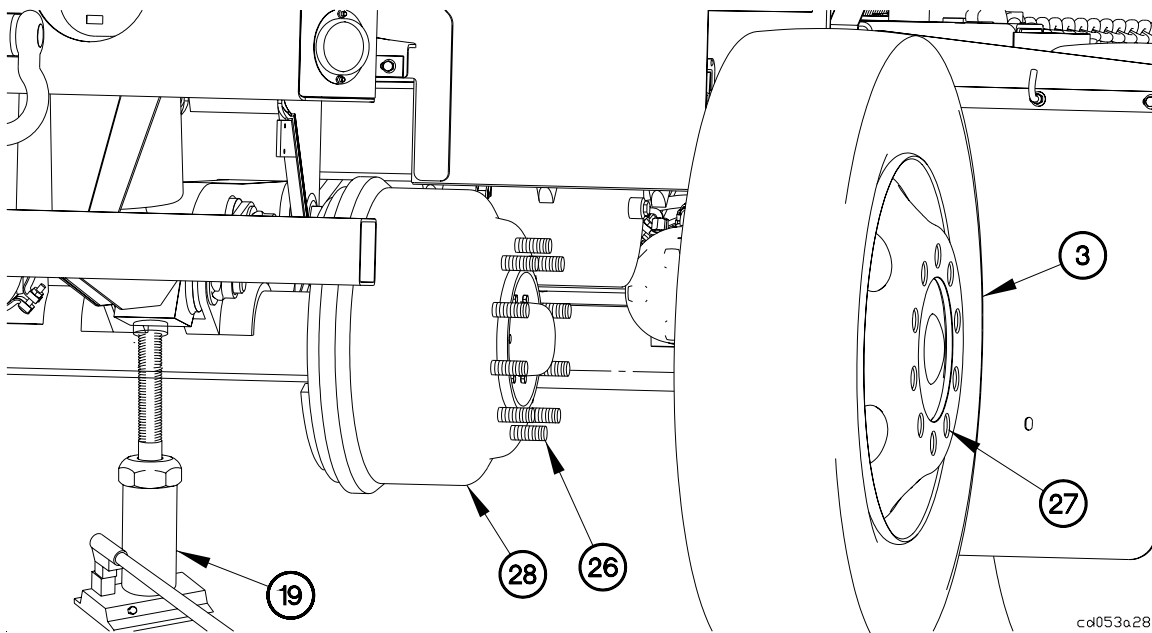


**TIRE INSTALLATION****NOTE**

Steps (1) through (5) require the aid of an assistant.

All tires are installed the same way. Rear tire installation shown.

1. Raise jack (19) until spare tire holes (27) are aligned with wheel studs (26).
2. Roll spare tire (3) up to hub (28).



**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****TIRE INSTALLATION - Continued****WARNING**

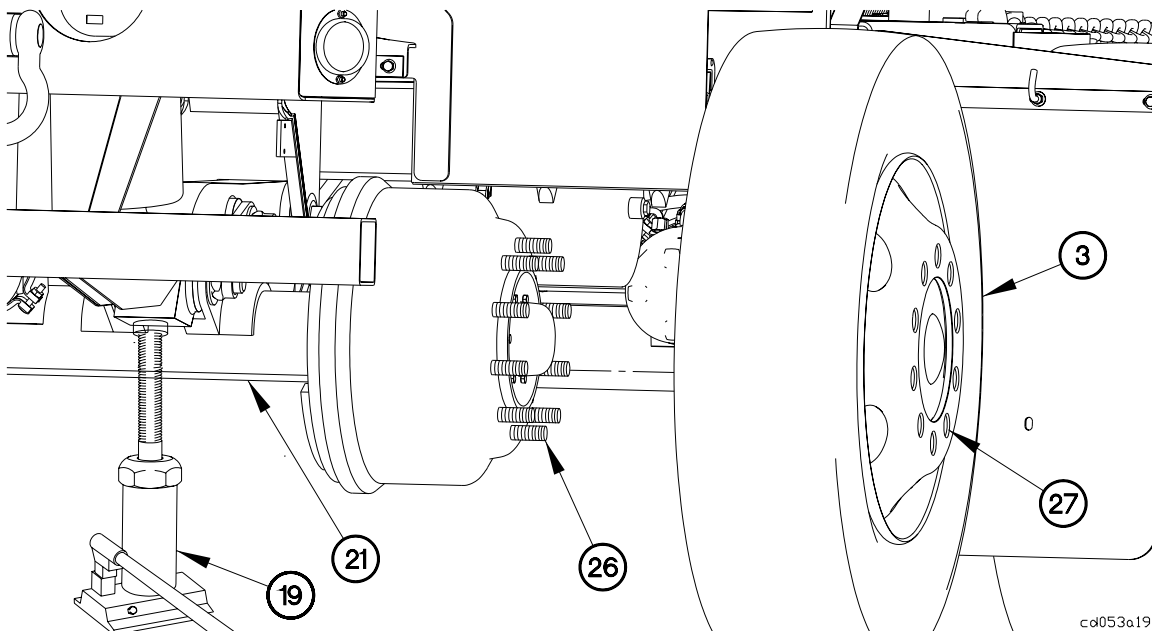
**Tire weighs approximately 100 lbs (45 kgs). Use caution when handling tire. Failure to comply may result in injury to personnel.**

2. Align 10 spare tire holes (27) in spare tire (3) with wheel studs (26).
3. Lean top of spare tire (3) against wheel studs (26).

**CAUTION**

Do not drag spare tire across wheel studs or crossthread lugnuts. Failure to comply may result in damage to equipment.

4. Slide spare tire (3) onto wheel studs (26) while assistant raises axle (21) with jack (19). Bottom of spare tire (3) should swing toward trailer.
5. Repeat step (4) until spare tire (3) is seated on wheel studs (26).



**TIRE INSTALLATION - Continued****WARNING**

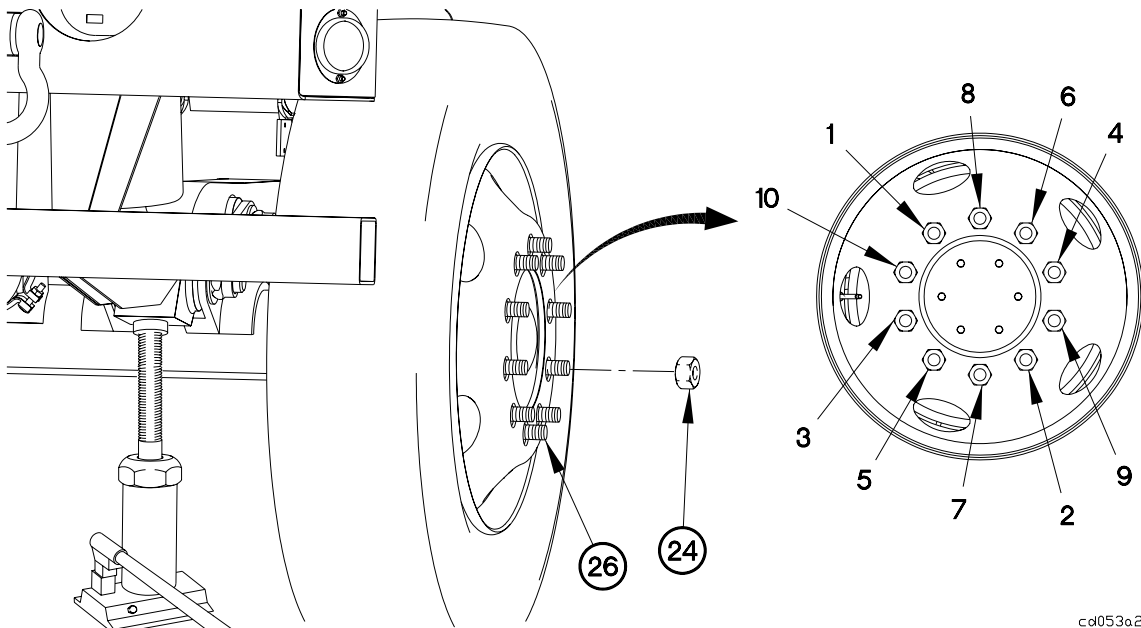
**Notify Field Level Maintenance that lugnuts must be tightened to 450-500 lb-ft (610-677 N·m) as soon as possible. Wheel may come loose if lugnuts are not tightened to proper torque. Failure to comply may result in serious injury or death to personnel.**

**NOTE**

Wheel studs and lugnuts on left side of trailer have left-hand threads. Rotate lugnuts clockwise to loosen, counterclockwise to tighten.

Wheel studs and lugnuts on right side of trailer have right-hand threads. Rotate lugnuts counterclockwise to loosen, clockwise to tighten.

6. Install 10 lugnuts (24) on wheel studs (26) in sequence shown.

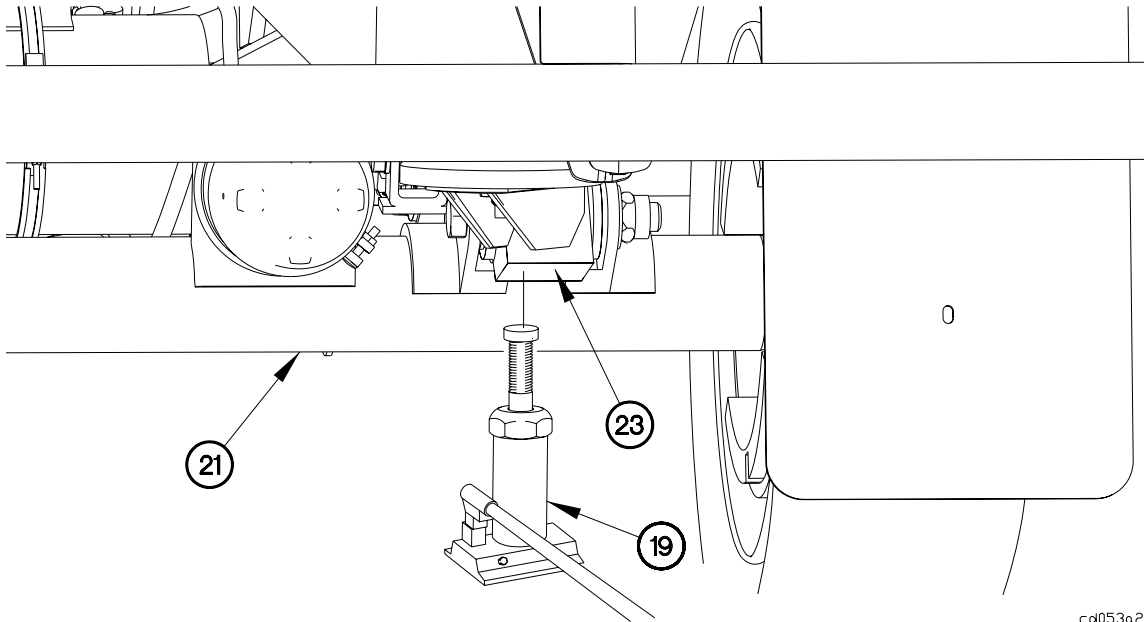


cd053a20

**TIRE INSTALLATION - Continued****WARNING**

**Ensure lugnuts are tightened fully before operation of trailer. Failure to comply may result in serious injury or death to personnel.**

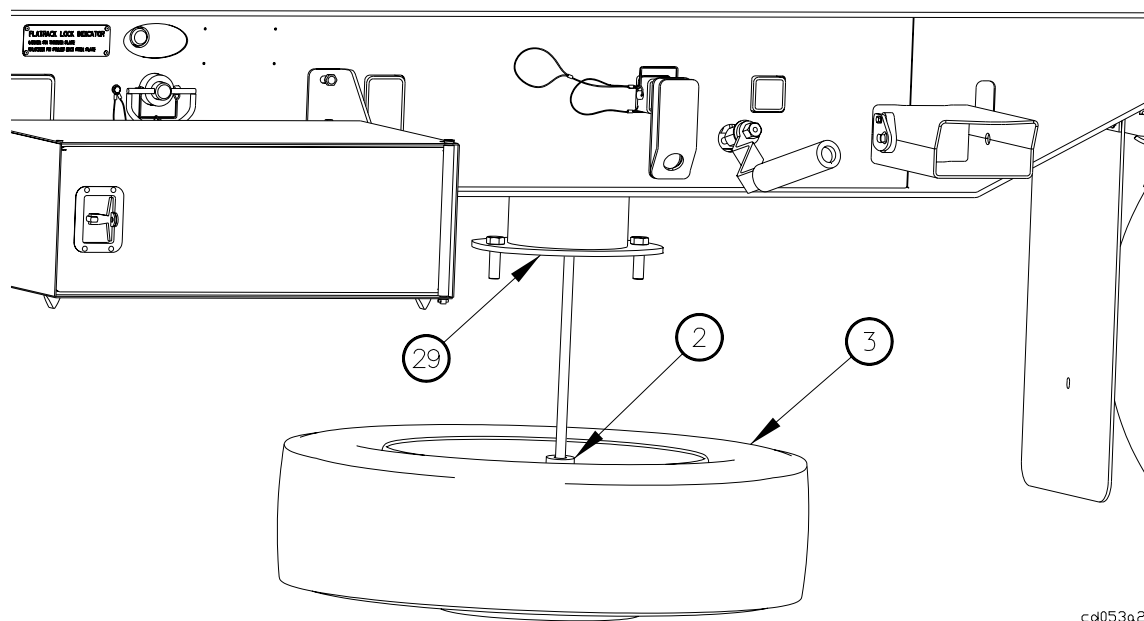
7. Lower trailer to ground with jack (19).
8. Remove jack (19) from air bag bracket (23) on axle (21).



cd053a21

**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****RAISE SPARE TIRE**

1. Position spare tire (3) near spare tire storage (29).
2. Position lift bracket (2) on center of spare tire (3) with concave side facing upwards.



c0053a24



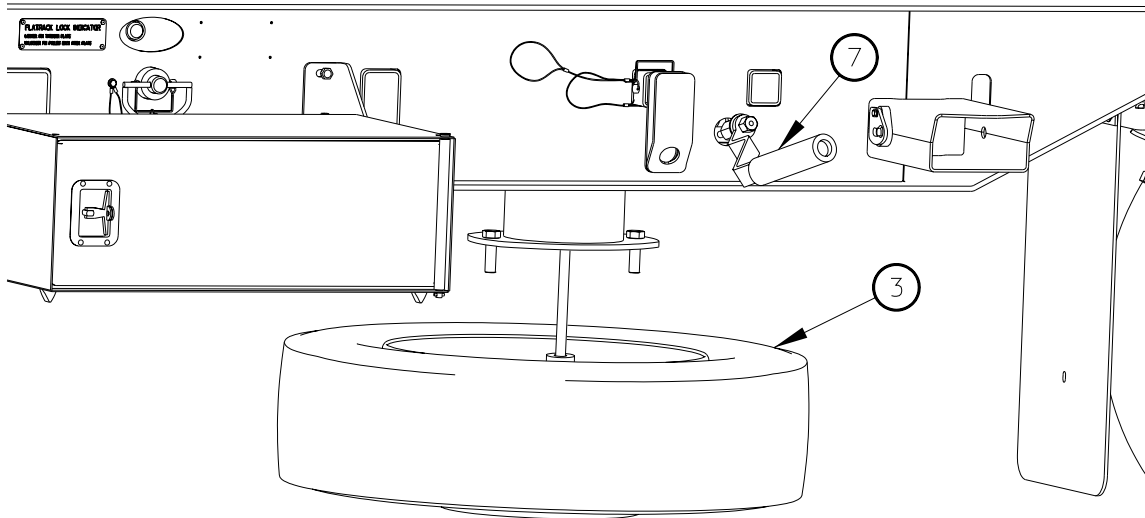
**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****RAISE SPARE TIRE - Continued****WARNING**

**Have an assistant hold the tire level while raising from the ground. If not held level, tire could come loose from lift bracket and fall. Failure to comply may result in injury to personnel.**

**CAUTION**

If winch cable is loose, keep tight by hand while cranking until cable tightens. Failure to comply may result in cable not reeling evenly on winch.

3. Turning winch crank (7) clockwise, raise spare tire (3).

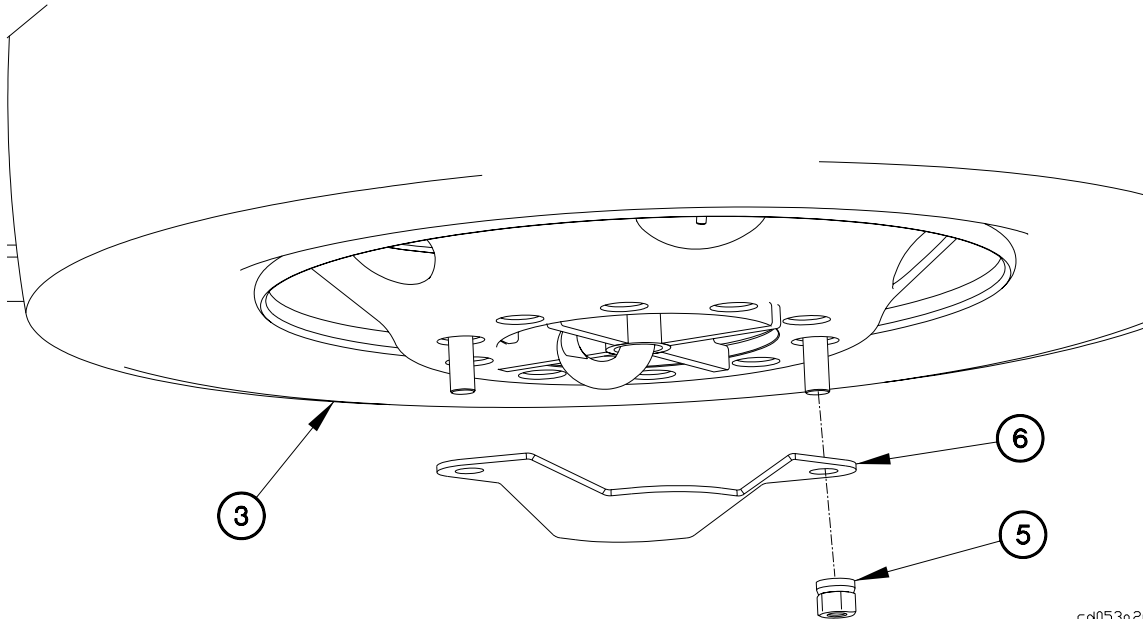


cd053a25

**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****RAISE SPARE TIRE - Continued****WARNING**

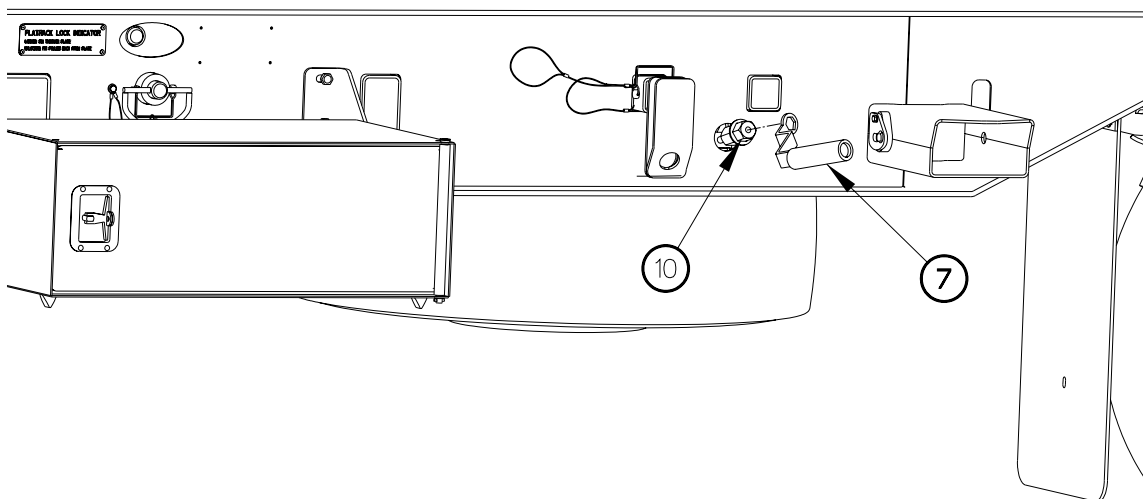
**Notify Field Level Maintenance that lugnuts must be tightened to 290-350 lb-ft (393-475 N·m) as soon as possible. Wheel may come loose if lugnuts are not tightened to proper torque. Failure to comply may result in serious injury or death to personnel.**

4. Install support plate (6) on spare tire (3) with two lugnuts (5).



cd053a26

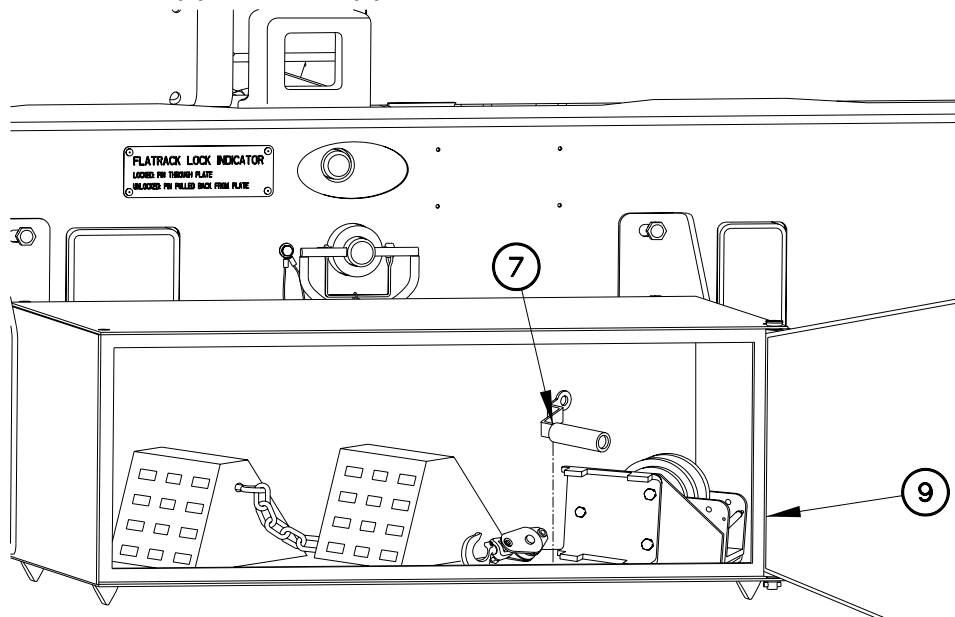
5. Remove winch crank (7) from rod (10).



cd053a27

**RAISE SPARE TIRE - Continued**

6. Store winch crank (7) in tool box (9).

**CHECKING TIRE PRESSURES****WARNING**

**Ensure tires have correct tire pressure (within  $\pm 3$  psi (21 kPa)) for driving speed (refer to Table 1: Cold Tire Inflation Pressures). Failure to comply may result in serious injury or death to personnel.**

Check tire pressures with tire inflator-gage.

**Table 1. Cold Tire Inflation Pressures**

Operating Mode	Maximum Vehicle Speed	Operating Time Restriction	Tire Pressure
Highway	55 mph (88 km/h)	NONE	120 psi (827 kPa)

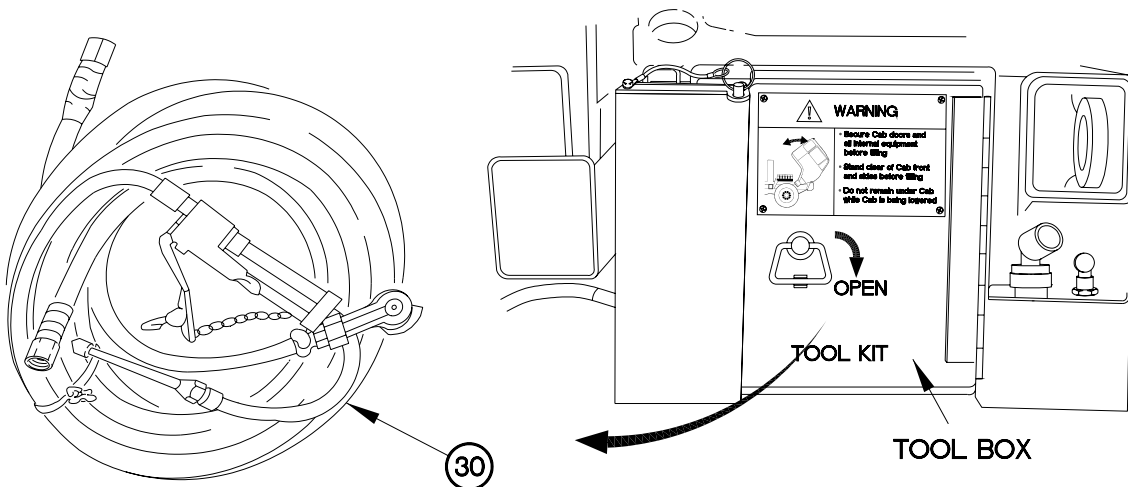
**MANUALLY INFLATING TIRES****WARNING**

Use caution when inflating tire. Over inflation may cause tire to blow apart. Failure to comply may result in serious injury or death to personnel or damage to equipment.

**NOTE**

SERVICE or EMERGENCY gladhands at rear of vehicle are used to manually inflate tires.

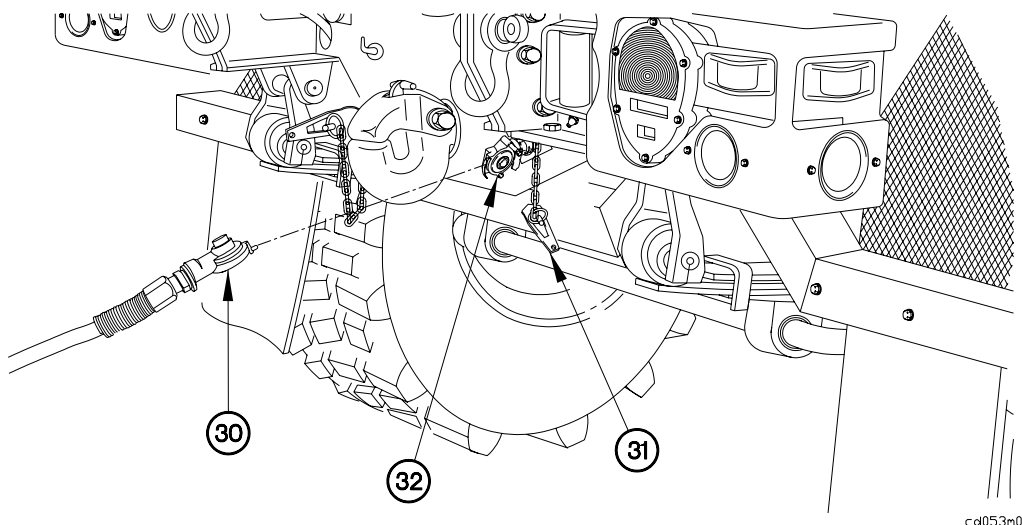
1. Remove tire inflator-gage with hose (30) from tool box.



cd053m01

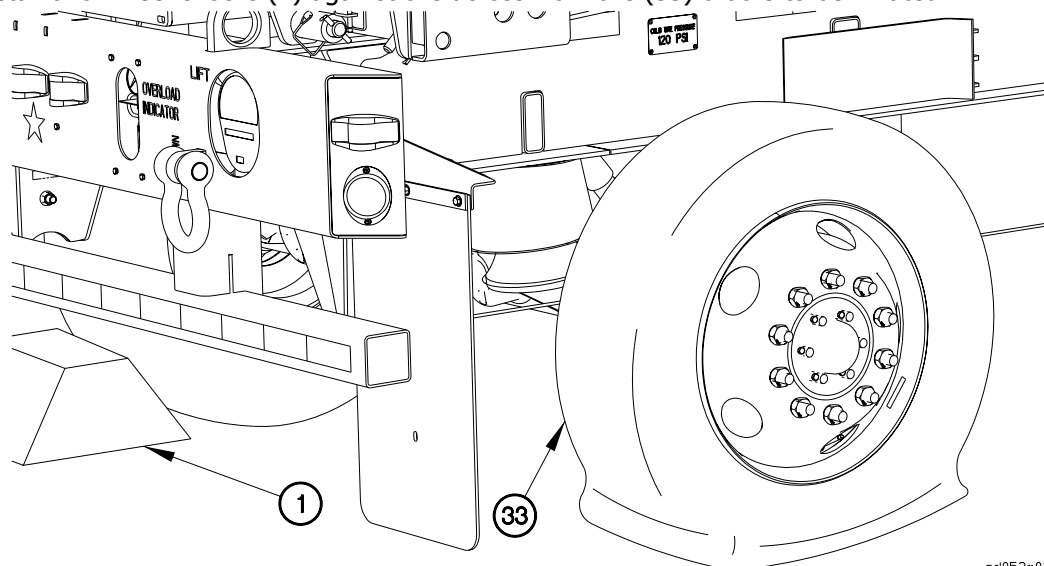
**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****MANUALLY INFLATING TIRES - Continued**

2. Remove dummy coupling (31) from SERVICE or EMERGENCY gladhand (32) at rear of vehicle.
3. Connect tire inflator-gage and hose (30) to SERVICE or EMERGENCY gladhand (32).
4. Start engine (WP 0020 00, TM 9-2320-392-10-1).

**WARNING**

**Wheels must be chocked and service brakes applied before parking brake is released. Vehicle may roll if wheels are not chocked. Failure to comply may result in serious injury or death to personnel.**

5. Install two wheel chocks (1) against tire across from tire (33) that is to be inflated.

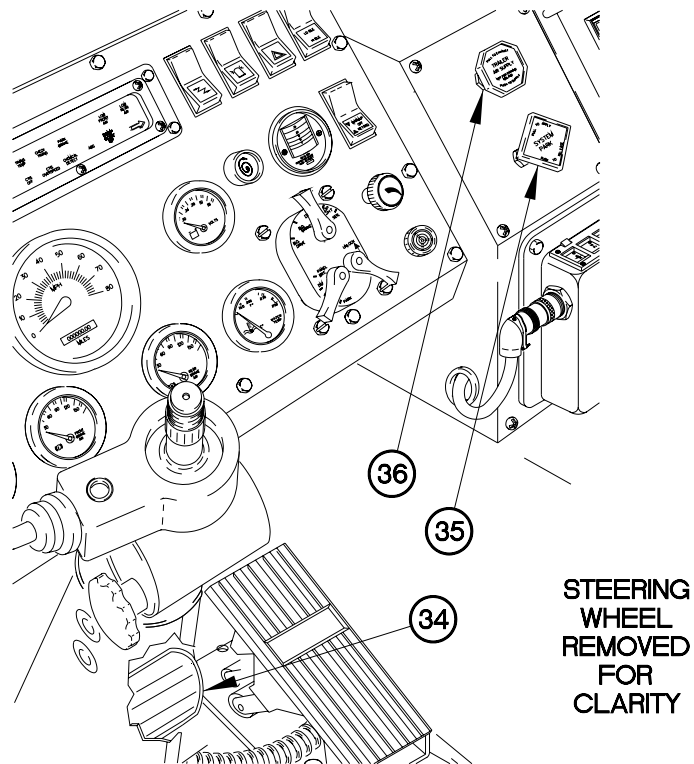


**MANUALLY INFLATING TIRES - Continued****NOTE**

Air is available at service gladhand as long as brake pedal is applied. Air is available at emergency gladhand once SYSTEM PARK and TRAILER AIR SUPPLY valves are depressed.

Steps 6 through 14 require the aid of an assistant.

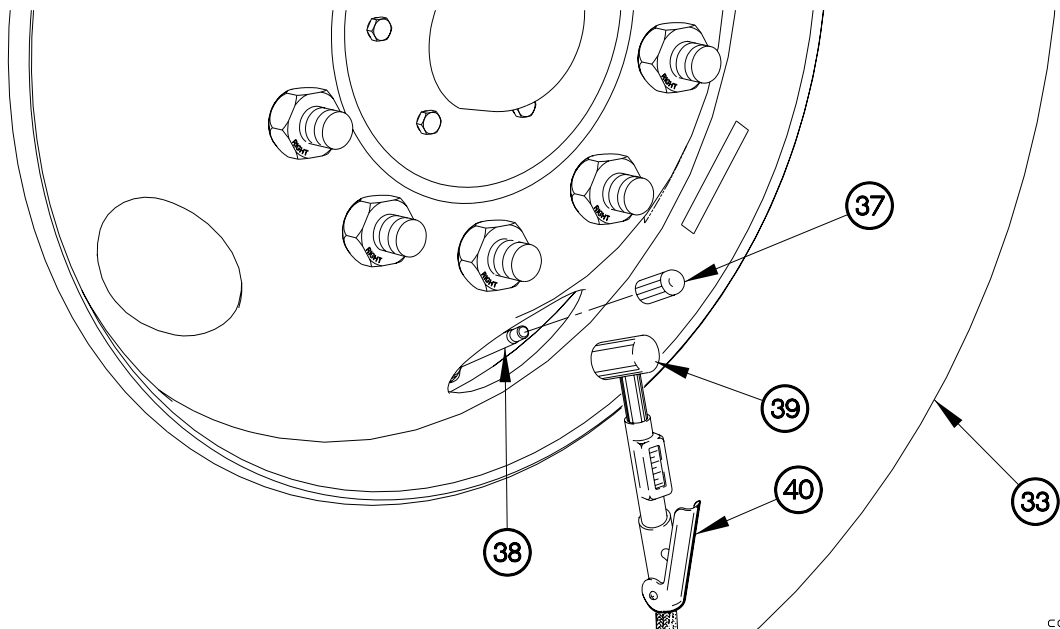
6. Depress brake pedal (34).
7. Push in SYSTEM PARK control (35).
8. Push in TRAILER AIR SUPPLY control (36).



cd053m04

**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****MANUALLY INFLATING TIRES - Continued**

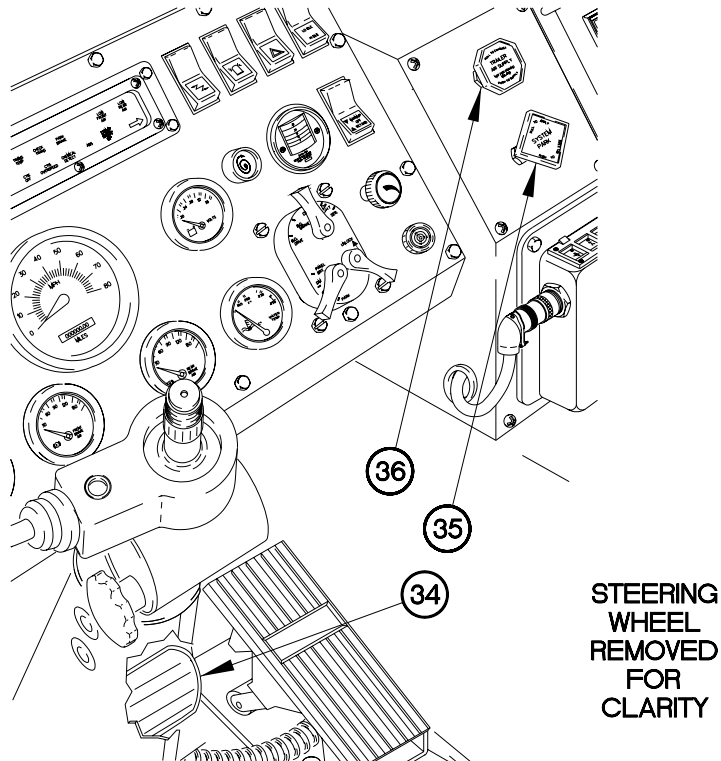
9. Remove cap (37) from valve stem (38).
10. Press chuck of tire inflator-gage (39) over valve stem (38) and squeeze handle (40).
11. Add air to tire (33) as required by **Table 1: Cold Tire Inflation**.
12. Remove chuck of tire inflator-gage (39) from valve stem (38).
13. Install cap (37) on valve stem (38).



cd053m05

**MANUALLY INFLATING TIRES - Continued**

14. Pull out SYSTEM PARK control (35).
15. Pull out TRAILER AIR SUPPLY control (36).
16. Release brake pedal (34).
17. Shut down engine (WP 0020 00, TM 9-2320-392-10-1).

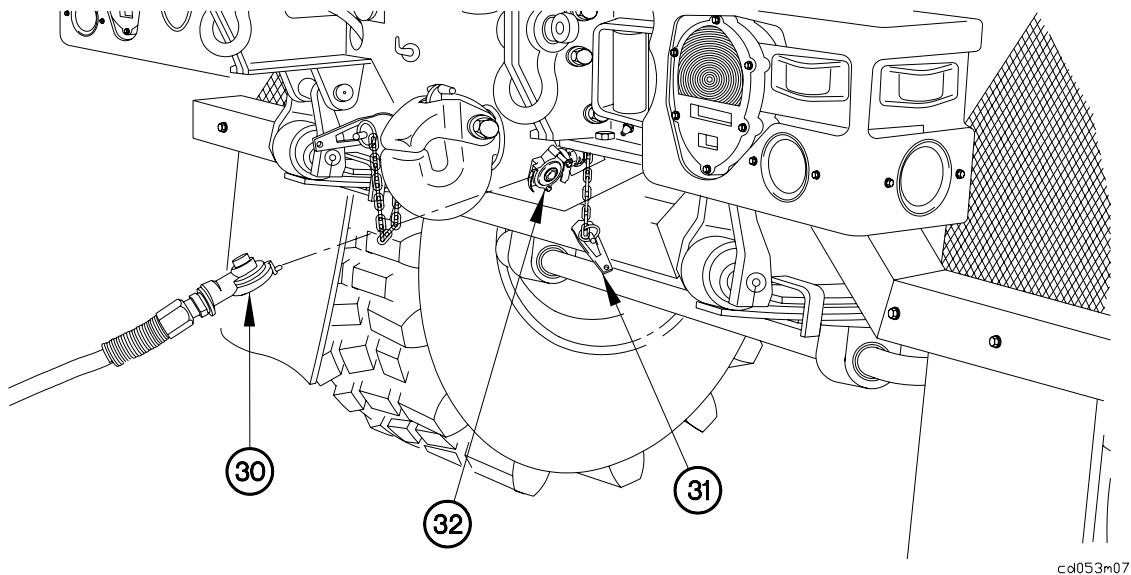


cd053m06

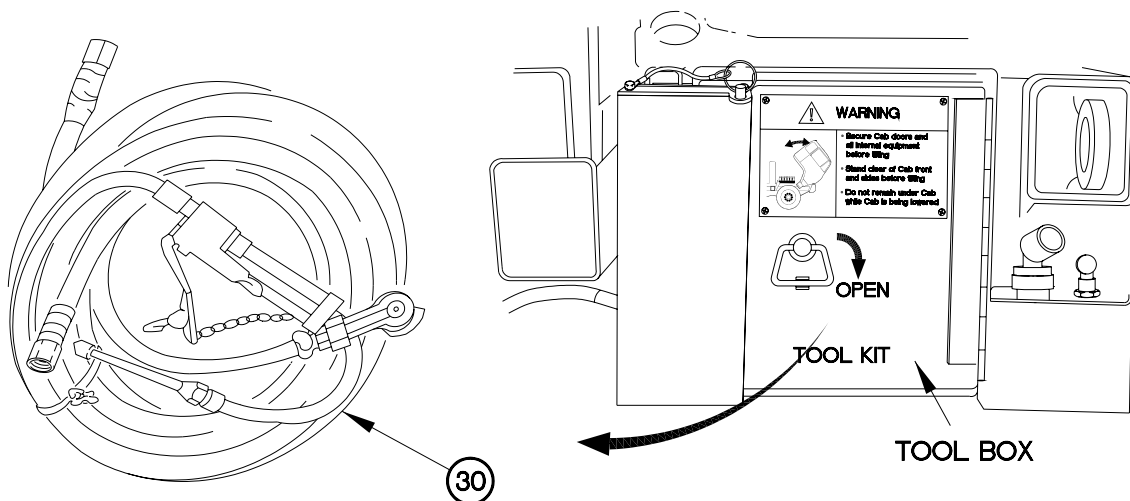


**CHANGING/SERVICING SPARE TIRE – Continued****0053 00****MANUALLY INFLATING TIRES - Continued**

18. Remove tire inflator-gage with hose (30) from SERVICE or EMERGENCY gladhand (32).
19. Install dummy coupling (31) on SERVICE or EMERGENCY gladhand (32).
20. Remove wheel chocks.



21. Stow tire inflator-gage with hose (30) in tool box.

**END OF WORK PACKAGE**



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**CLEANING TRAILER**

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**0054 00****THIS WORK PACKAGE COVERS:**General, Cleaning Trailer

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**INITIAL SETUP:****Maintenance Level**

Operator

**Materials/Parts (Cont)**

Corrosion Prevention Compound (Item 5, WP 0165 00).

Brush Set (Item 3, WP 0165 00)

**Tools/Special Tools**

Gloves, Rubber (Item 6, WP 0167 00)

Goggles, Industrial (Item 8, WP 0167 00)

**Personnel Required**

Two

**Materials/Parts**

Rag, Wiping (Item 11, WP 0165 00)

Soap, Laundry (Item 16, WP 0165 00)

Solvent, Dry Cleaning (Item 18,  
WP 0165 00)**References**

TM 9-247

**Equipment Conditions**

Wheels chocked (TM 9-2320-392-10).

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**GENERAL**

This work package contains information and instructions to clean the Load Handling System Trailer (LHST).

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**WARNING**

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**All cleaning procedures must be accomplished in well-ventilated areas. Failure to comply may result in injury to personnel or damage to equipment.**

**Protective gloves, clothing, and/or respiratory equipment must be worn whenever caustic, toxic, or flammable cleaning solutions are used. Failure to comply may result in injury to personnel or damage to equipment.**

**Diesel fuel or gasoline must never be used for cleaning. Failure to comply may result in injury to personnel or damage to equipment.**

**A fire extinguisher must be available and ready during all cleaning operations involving Dry Cleaning Solvent. Failure to comply may result in injury to personnel or damage to equipment.**

**Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well-ventilated area; avoid contact with skin, eyes, and clothes, and do not breath vapors. Keep away from heat or flame. Never smoke when using Dry Cleaning Solvent; the flashpoint for Type I Dry Cleaning Solvent is 100°F (38°C) and for Type II is 138°F (50°C). Failure to comply may result in serious injury or death to personnel.**

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**CLEANING TRAILER - Continued**

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**0054 00****GENERAL - Continued**

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**WARNING**

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**If personnel become dizzy while using Dry Cleaning Solvent, immediately get fresh air and medical help. If Dry Cleaning Solvent contacts skin or clothes, flush with cold water. If Dry Cleaning Solvent contacts eyes, immediately flush eyes with water and seek medical attention. Failure to comply may result in serious injury or death to personnel.**

**Wear appropriate eye protection when using high pressure water to clean trailer. Failure to comply may result in injury to personnel.**

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**CAUTION**

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Do not wipe dirt off trailer when it is dry. Dirt, stones, or debris may scratch and damage trailer. Failure to comply may result in damage to equipment.

Do not direct high-pressure water stream at plastic surfaces, seals, or any other component of trailer that could be easily damaged by high-pressure water stream. Failure to comply may result in damage to equipment.

Do not use strong detergent or abrasives. Failure to comply may result in damage to equipment.

Do not allow cleaning compounds to come into contact with rubber, or vinyl materials. Failure to comply may result in damage to equipment.

Do not allow corrosion-removing cleaning compounds to contact painted surfaces. Failure to comply may result in damage to equipment.

Do not steam clean any part of trailer that has been rustproofed. Failure to comply may result in damage to equipment.

**NOTE**

Detailed description of specific cleaning compounds, Dry Cleaning Solvents, and corrosion-removing compounds are found in TM 9-247.

Table 1, General Cleaning Instructions, provides a general guideline to cleaning materials used in removing contaminants from various trailer surfaces.

**CLEANING TRAILER - Continued****0054 00****GENERAL - Continued****Table 1: General Cleaning Instructions.**

<b>Cleaning Materials Used to Remove</b>			
<b>Surface</b>	<b>Oil/Grease</b>	<b>Salt/Mud/ Dust/Debris</b>	<b>Surface Rust/Corrosion</b>
Body	Grease-cleaning compound, running water, and damp or dry rags.	High pressure water, soapy warm water, soft brush, and damp or dry rags.	Corrosion-removing compound, bristle brush, dry rags, and lubricating oil.*
Frame and Flatrack Rail	Grease-cleaning compound rinsed with running water and rags.	High pressure water, soapy warm water, wire brush, and damp or dry rags.	Corrosion-removing compound, bristle brush, dry rags, and lubricating oil.*
Gladhands	Damp or dry rags.**	Damp or dry rags.**	Not applicable.
Glass	Glass cleaning solution and clean, dry rags.	Glass cleaning solution and clean, dry rags.	Not applicable.
Rubber	Damp or dry rags.	Damp or dry rags.	Not applicable.
Tires	Soapy water and bristle brush.	High pressure water and bristle brush.	Not applicable.
Electrical plugs/ connectors	Rag moistened with Dry Cleaning Solvent	Rag moistened with Dry Cleaning Solvent	Not applicable.
Winch Cable	Cleaning compound and wire brush.	Wire brush.	Wire brush and lubricating oil.*
* After cleaning, apply light grade of lubricating oil to all unprotected surfaces to prevent continued rust.			
** After cleaning, apply light grade of lubricating oil to all unprotected surfaces to prevent drying and cracking.			

**CLEANING TRAILER**

Clean trailer per Table 1. General Cleaning Instructions.

**END OF WORK PACKAGE**



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**SPRING BRAKE CAGING PROCEDURES**

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**0055 00****THIS WORK PACKAGE COVERS:**Caging Spring Brakes, Uncaging Spring Brakes

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**INITIAL SETUP:****Maintenance Level**

Operator

**Personnel Required**

Two

**Tools and Special Tools**Wrench, Adjustable, 8 in. (Item 29, WP  
0167 00)  
Goggles, Industrial (Item 8, WP 0167 00)**Equipment Conditions**Wheels Chocked (TM 9-2320-392-10)

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**CAGING SPRING BRAKES**

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**WARNING**

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**Wear appropriate eye protection when working under trailer due to the possibility of falling debris. Failure to comply may result in injury to personnel.**

**Trailer wheels must be chocked before caging parking/emergency spring brakes. Failure to comply may result in injury to personnel.**

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**CAUTION**

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Do not attempt to tow the trailer with spring brakes caged except to move the trailer out of the traveled portion of the highway. Failure to comply may result in damage to equipment.

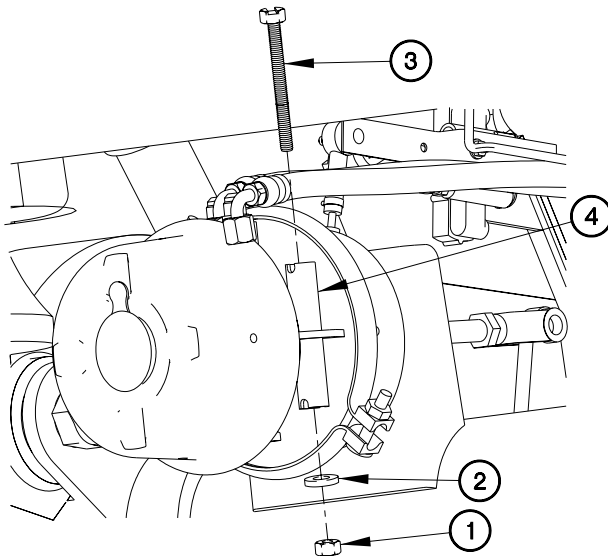
**NOTE**

To cage spring brakes, caging procedures apply to both front and rear brake air chambers.

**CAGING SPRING BRAKES****NOTE**

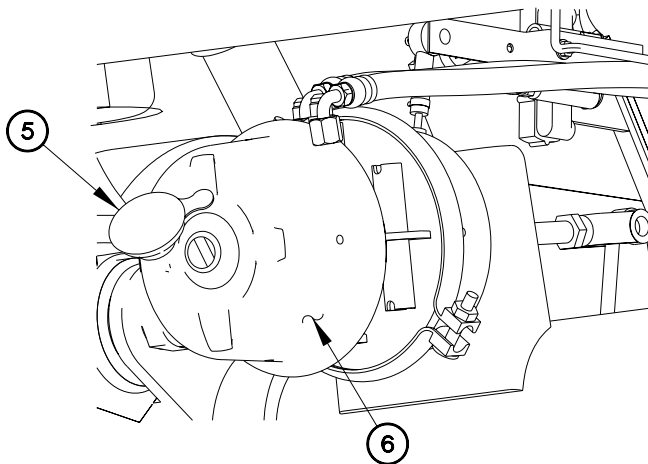
All spring brakes are caged the same way. RH shown.

1. Drain air tanks.
2. Remove nut (1) and washer (2) from caging bolt (3).
3. Remove caging bolt (3) from caging bolt holder (4).



cd055P01

4. Remove rubber cap (5) from back of brake air chamber (6).

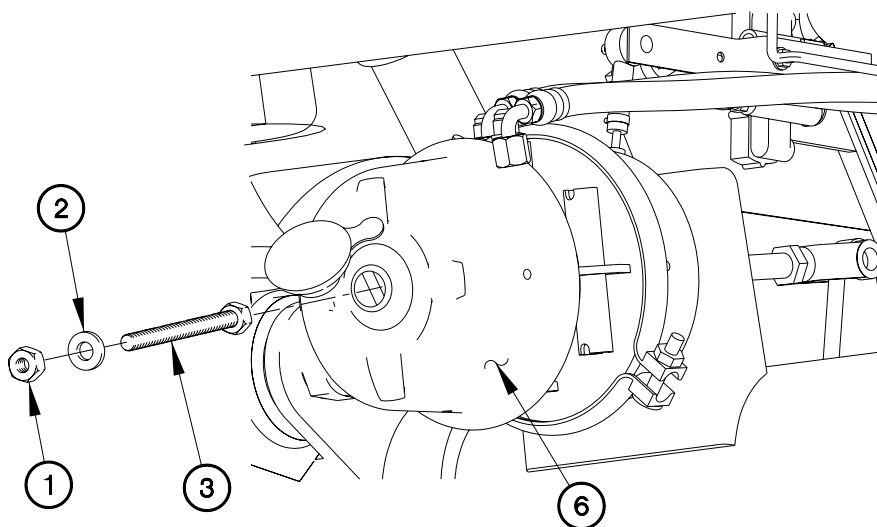


cd055P02



**CAGING SPRING BRAKES**

5. Insert T-end of caging bolt (3) in back of brake air chamber (6) and lock in place by turning caging bolt (3)  $\frac{1}{4}$  turn clockwise.
6. Install washer (2) and nut (1) on caging bolt (3).
7. Tighten nut (1).
8. Perform previous steps seven steps on remaining brake air chambers.

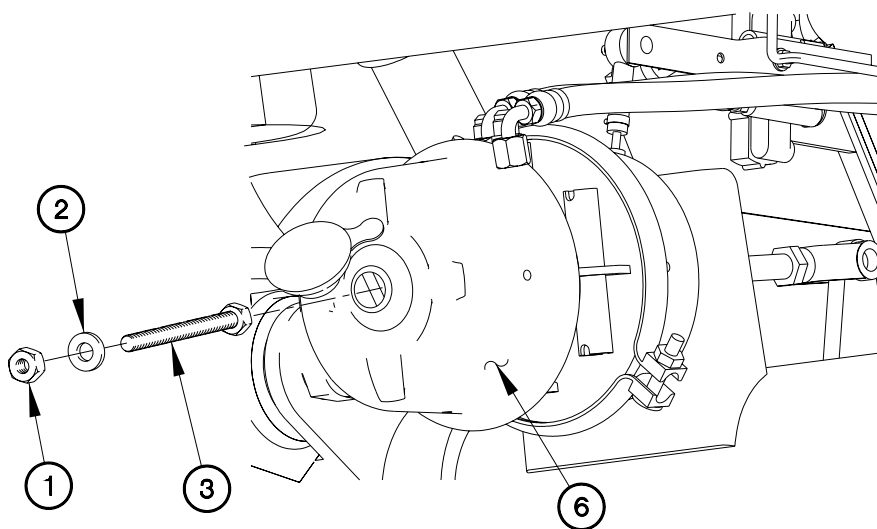


cd055P03

**UNCAGING SPRING BRAKES****NOTE**

All spring brakes are uncaged the same way. RH shown.

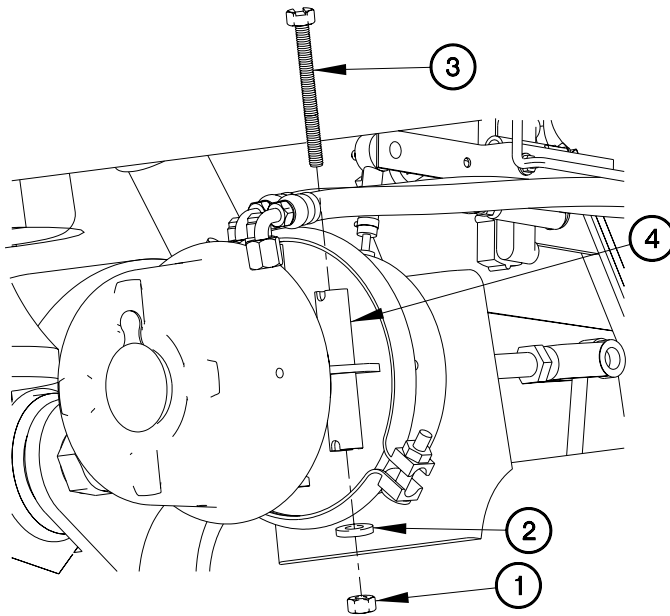
1. Remove nut (1) and washer (2) from caging bolt (3).
2. Turn caging bolt (3) to the left  $\frac{1}{4}$  turn and remove from brake air chamber (6).



cd055P03

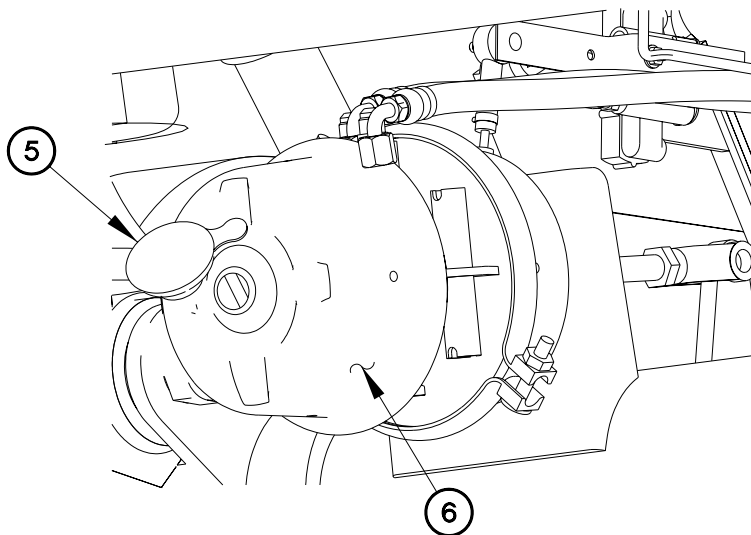
**UNCAGING SPRING BRAKES**

3. Install caging bolt (3) in caging bolt holder (4).
4. Install washer (2) and nut (1) on caging bolt (3).



cd055P01

5. Install rubber cap (5) on brake air chamber (6).



cd055P02

**END OF WORK PACKAGE****WP 0055 00-5/6-Blank**



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**PREPARATION FOR TRANSPORT**

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**0056 00****THIS WORK PACKAGE COVERS:**Stacking Trailer, Preparation for Transport

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**INITIAL SETUP:****Maintenance Level**

Field

**Materials/Parts**

Lockwashers (6) (Item 18, WP 0168 00)

Chains (15) (NSN 4010-01-371-5772)

Binder, Load (8) (NSN 3990-01-440-5975)

**Tools and Special Tools**

Tool Kit, Genl Mech (Item 22, WP 0167 00)

Wrench, Torque 50-250 lb-ft (Item 31, WP 0167 00)

**Equipment Conditions**

Trailer uncoupled (TM 9-2320-392-1)

Flatrack rail in down position (WP 0005 00)

**References**TM 9-2320-392-10-1

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**GENERAL**

This work package contains information and instructions to stack and transport the Load Handling System Trailer (LHST).

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**WARNING**

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**Wear appropriate eye protection when working under trailer due to the possibility of falling debris. Failure to comply may result in injury to personnel.**

**CAUTION**

Front guides must be properly stored on both LH and RH sides of the trailer to meet with transport width requirements. Failure to comply may result in damage to equipment.

Trailer must be unloaded of all containers and cargo. Failure to comply may result in damage to equipment.

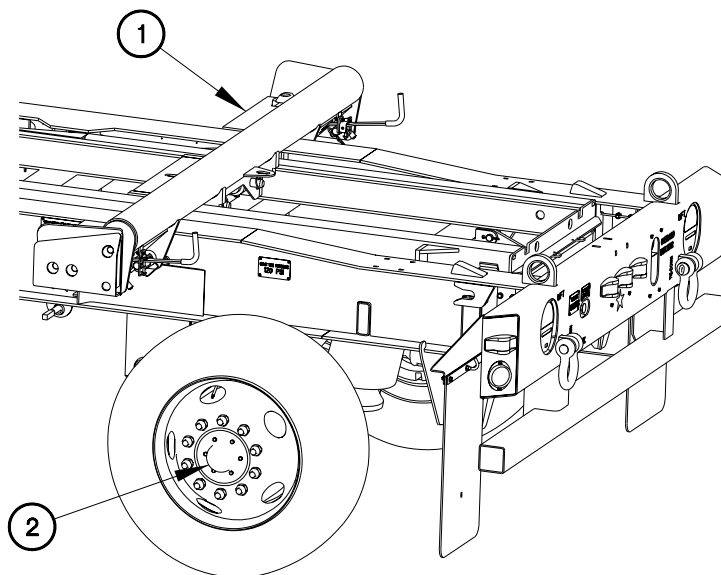
**NOTE**

Lug wrench to remove stacking brackets and shuttle guide brackets included in trailer stowage box.

Combine securing chains as needed to achieve desired lengths.

**STACKING**

1. Pull shuttle (1) of bottom trailer just forward of rear axle (2).

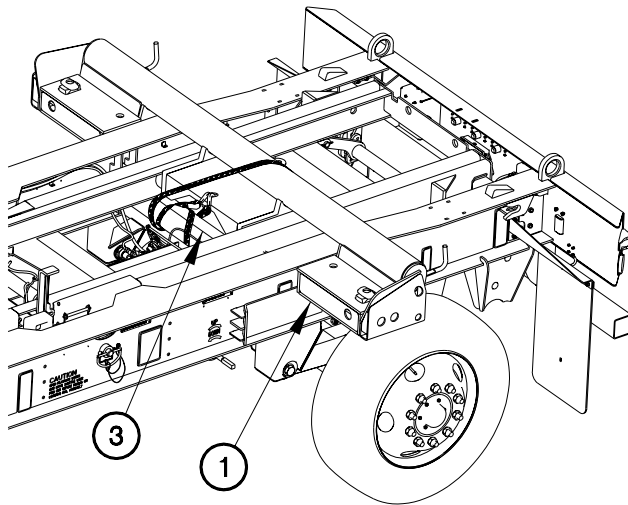


CD056P01

**PREPARATION FOR TRANSPORT - Continued****0056 00****STACKING - Continued****CAUTION**

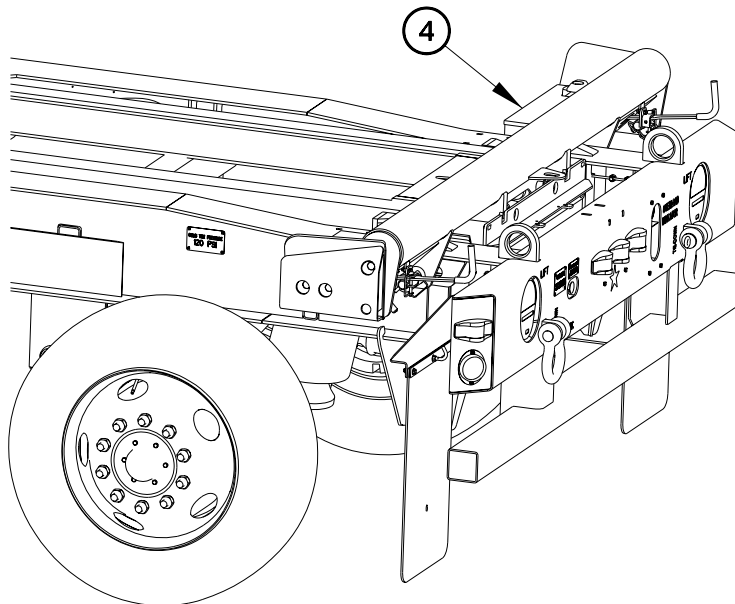
Ensure chains are clear of rear air tank and air hoses under cross member. Failure to comply may result in damage to equipment.

2. Secure shuttle (1) of bottom trailer to cross member (3) with chain and binder.



CD056P02

3. Secure shuttle (4) of top trailer in the rear stowed position.

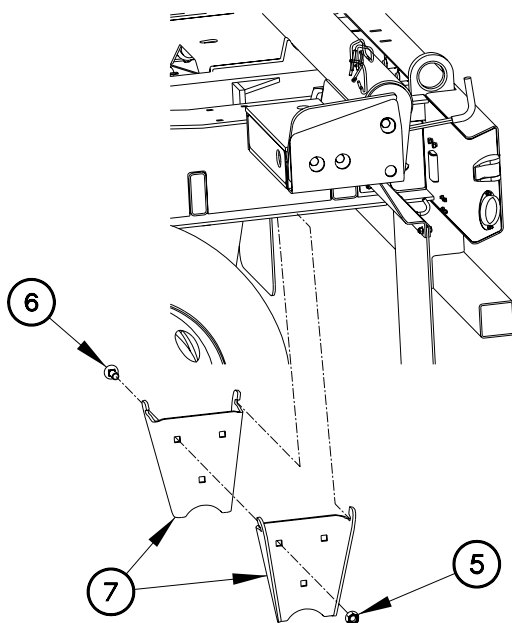


CD056P03

**PREPARATION FOR TRANSPORT - Continued****0056 00****STACKING - Continued****NOTE**

Transport brackets are removed and installed the same way on both RH and LH side. LH side shown.

4. Remove three nuts (5) and bolts (6) on transport brackets (7) from both top and bottom trailer.
5. Remove transport brackets (7) from both top and bottom trailer.

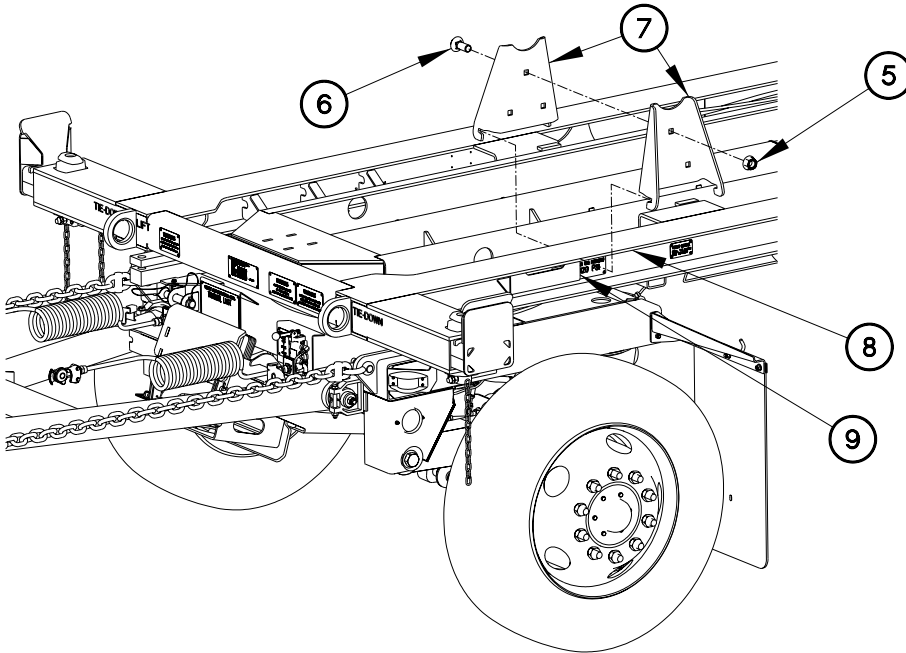


CD056P04



**PREPARATION FOR TRANSPORT - Continued****0056 00****STACKING - Continued**

6. Rotate transport brackets (7) 180 degrees.
7. Position front transport brackets (7) on top flange (8) of bottom trailer just behind hold down brackets (9).
8. Install three bolts (6) and nuts (5) in front transport brackets (7).



CD056P05

**PREPARATION FOR TRANSPORT - Continued****0056 00****STACKING - Continued****NOTE**

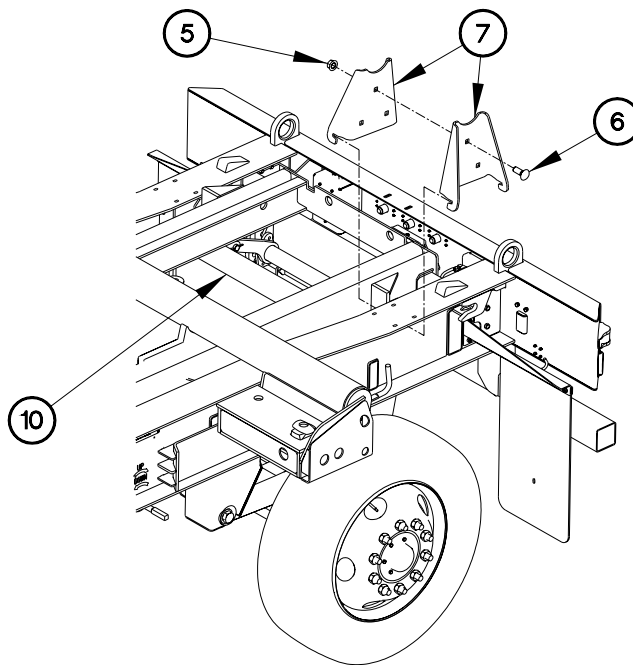
Transport brackets should be approximately 183-5/8 inches apart center to center. Some adjustment may be necessary.

9. Position rear transport brackets (7) centered over rear axle crossmember (10).

**NOTE**

Position nuts to inside of trailer.

10. Install three bolts (6) and nuts (5) in rear transport brackets (7). Do not fully tighten nuts.

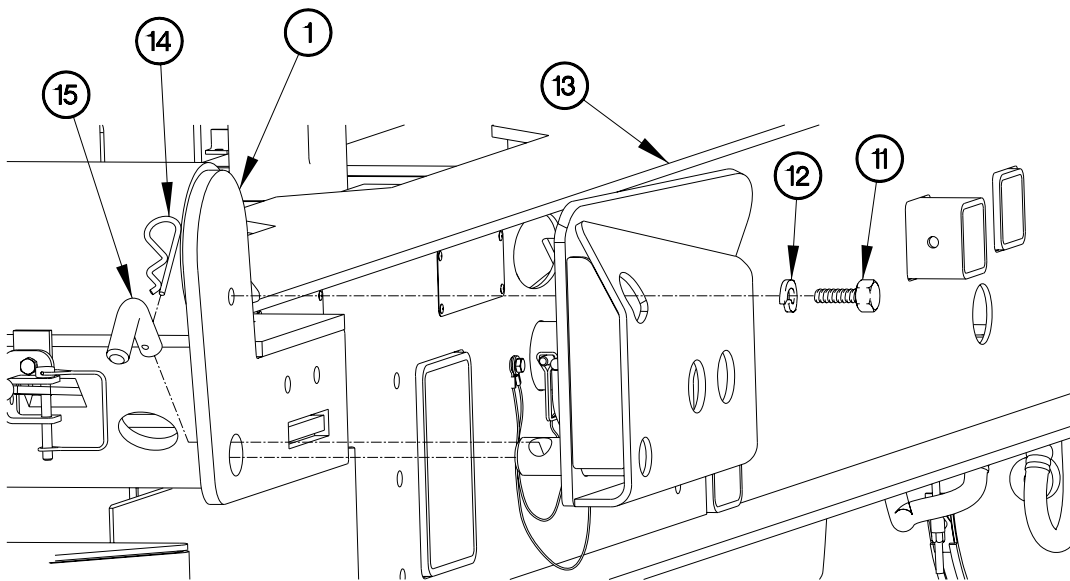


CD056P06

**PREPARATION FOR TRANSPORT - Continued****0056 00****STACKING - Continued****NOTE**

Shuttle guide brackets are removed the same way on both LH and RH side. RH side shown.  
Stow brackets and hardware in stowage box after removal.

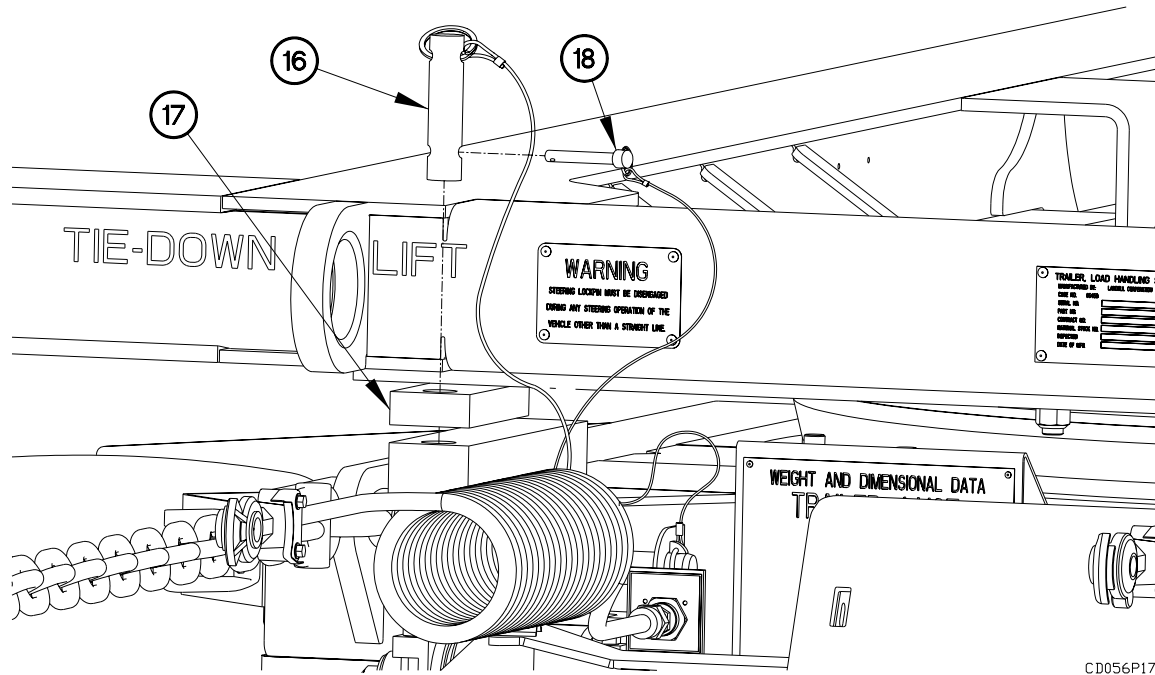
11. Remove three bolts (11) and lockwashers (12) from shuttle guide bracket (13) on both top and bottom trailers. Discard lockwashers.
12. Remove retaining pin (14), pin (15), and shuttle guide bracket (13) from shuttle (1) on both top and bottom trailers.



CD056P07

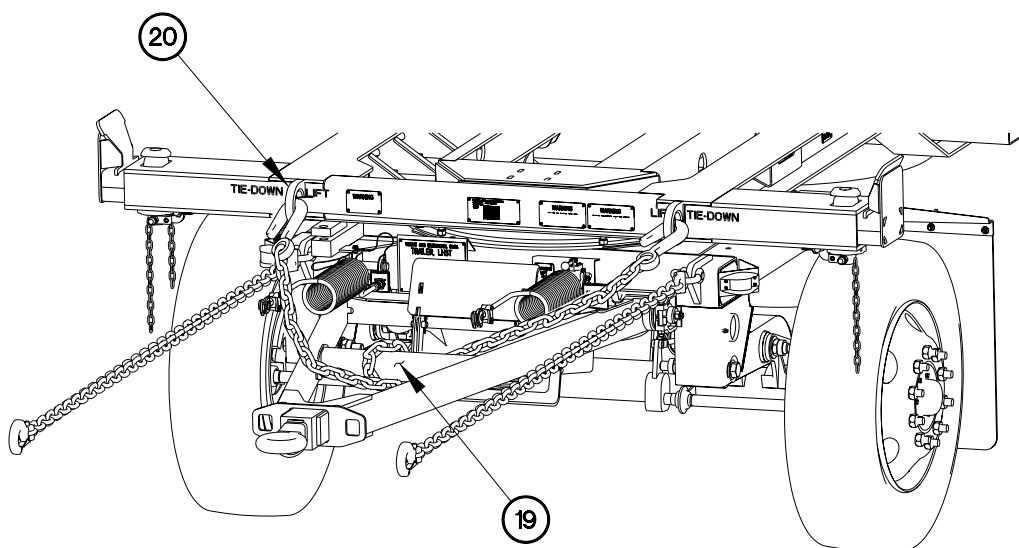
**PREPARATION FOR TRANSPORT - Continued****0056 00****STACKING - Continued**

13. Install turntable pin (16) in turntable (17) on top trailer.
14. Install pin (18) in turntable pin (16).



**STACKING - Continued**

15. Raise drawbar (19) until parallel to ground (WP 0043 24, TM 2320-392-10-1).
16. Secure front cross member of drawbar (19) of top trailer to front tie downs (20) of top trailer with chain.



CD056P08

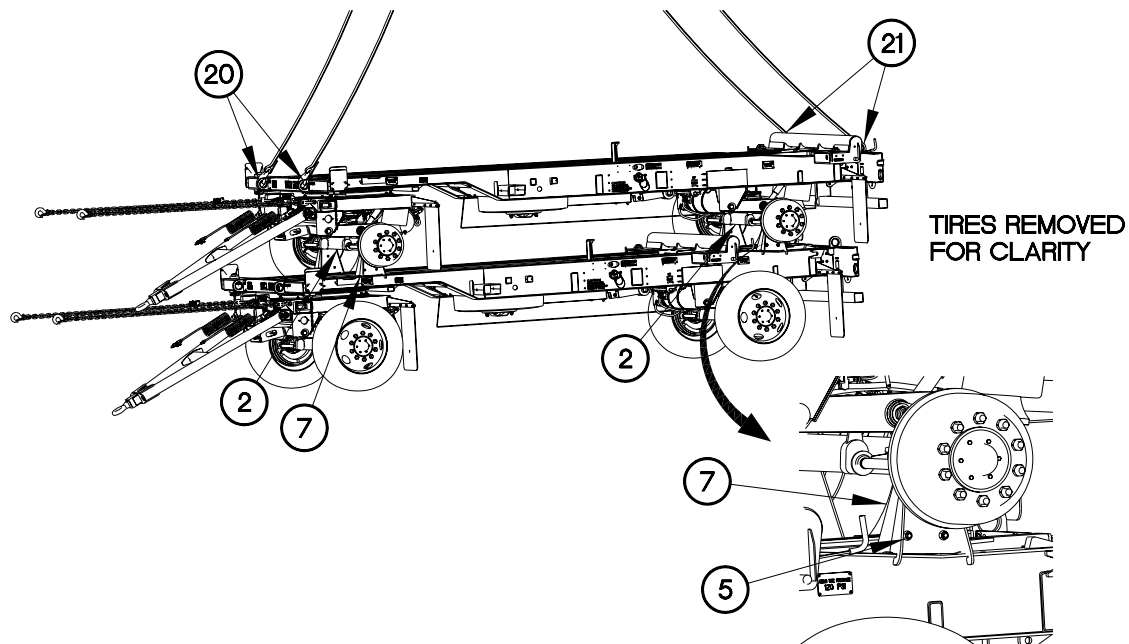
**PREPARATION FOR TRANSPORT - Continued****0056 00****STACKING - Continued**

17. Attach chains from front (20) and rear (21) lifting eyes to overhead lifting device.
18. Position top trailer above bottom trailer using an overhead lifting device.

**NOTE**

Adjustment of transport brackets may be necessary to secure front and rear axles of top trailer onto transport brackets of bottom trailer.

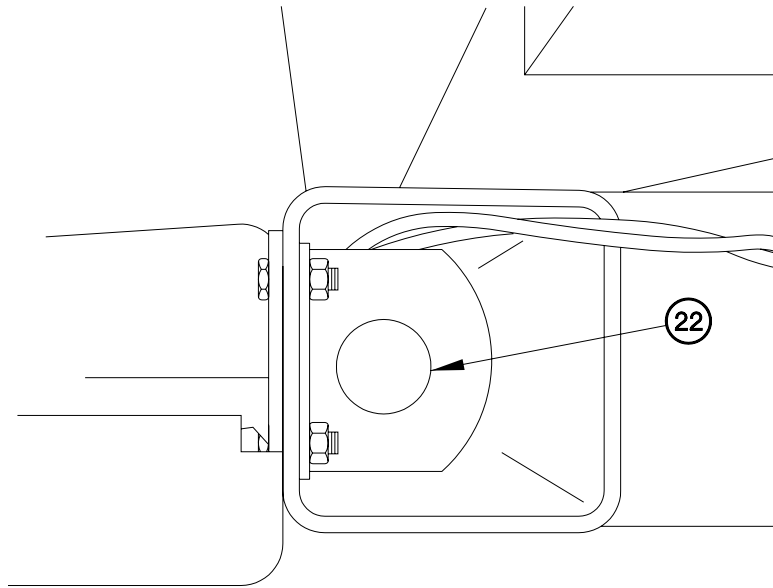
19. Place axles (2) of top trailer into recesses in transport brackets (7) on bottom trailer.
20. Fully tighten nuts (5) on all transport brackets (7).



CD056P09

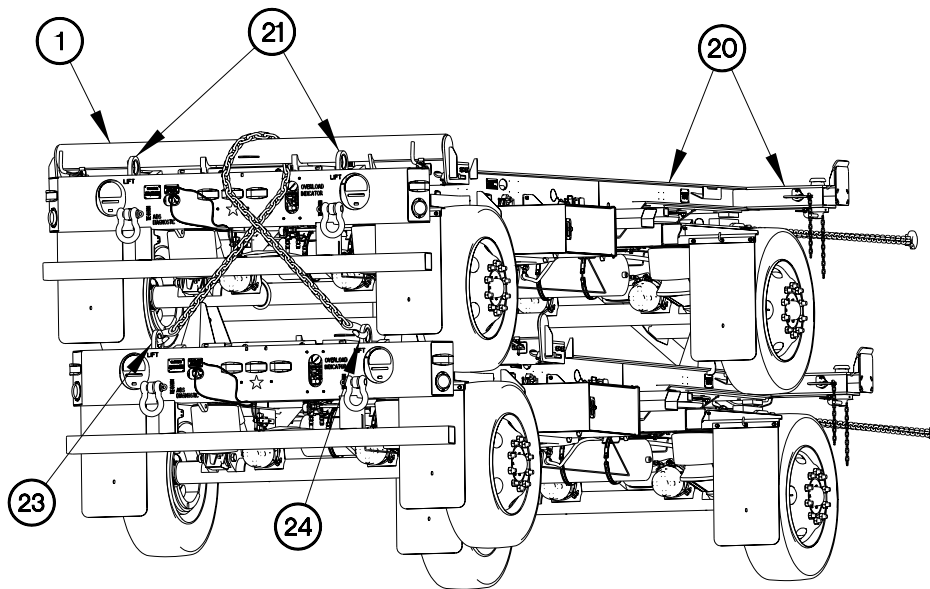
**STACKING - Continued**

21. Press height actuation valve knob (22) in to lower suspension of top trailer.



CD056P18

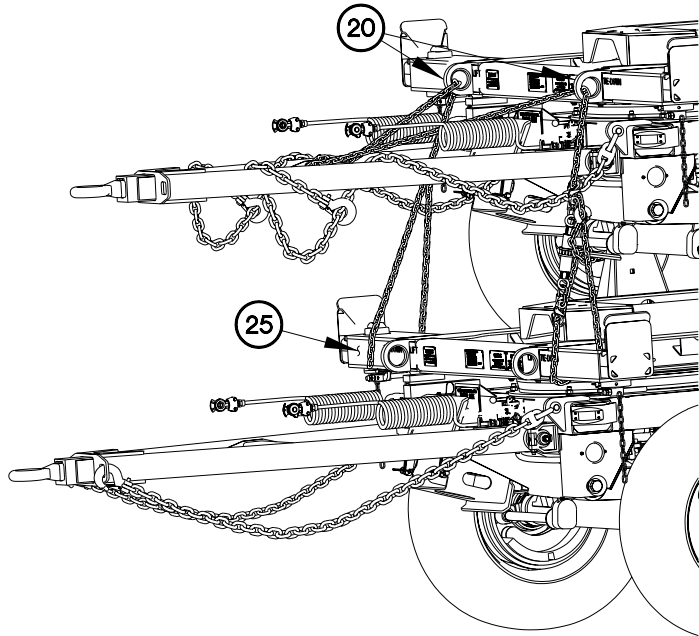
22. Remove lifting chains from front (20) and rear (21) lifting eyes of top trailer.
23. Place chain over shuttle (1) of top trailer and secure one end to left rear lifting eye (23) of bottom trailer and other end to right rear lifting eye (24) of bottom trailer.



CD056P19

**STACKING - Continued**

24. Position chain through both front lifting eyes (20) of top trailer.
25. Wrap chain around front cross member (25) of bottom trailer on both RH and LH side and secure with binder.

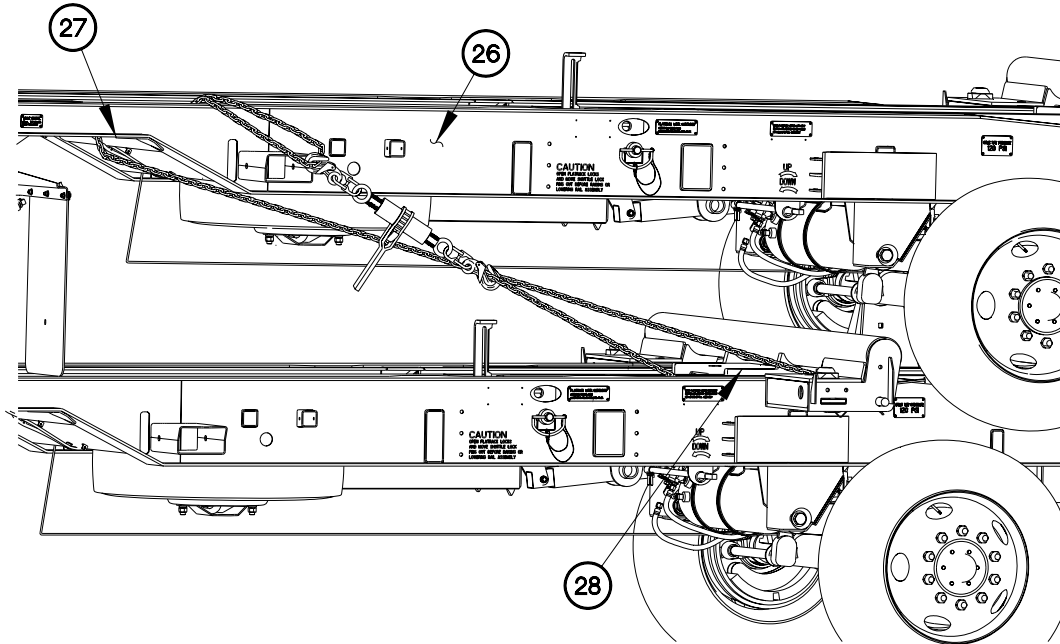


CD056P20



**PREPARATION FOR TRANSPORT - Continued****0056 00****STACKING - Continued**

26. Place chain over frame rail (26) at triangular cross member (27) of top trailer and loop around cross member (28) of bottom trailer and secure with binder. LH side shown.
27. Repeat previous step on RH side of trailer.

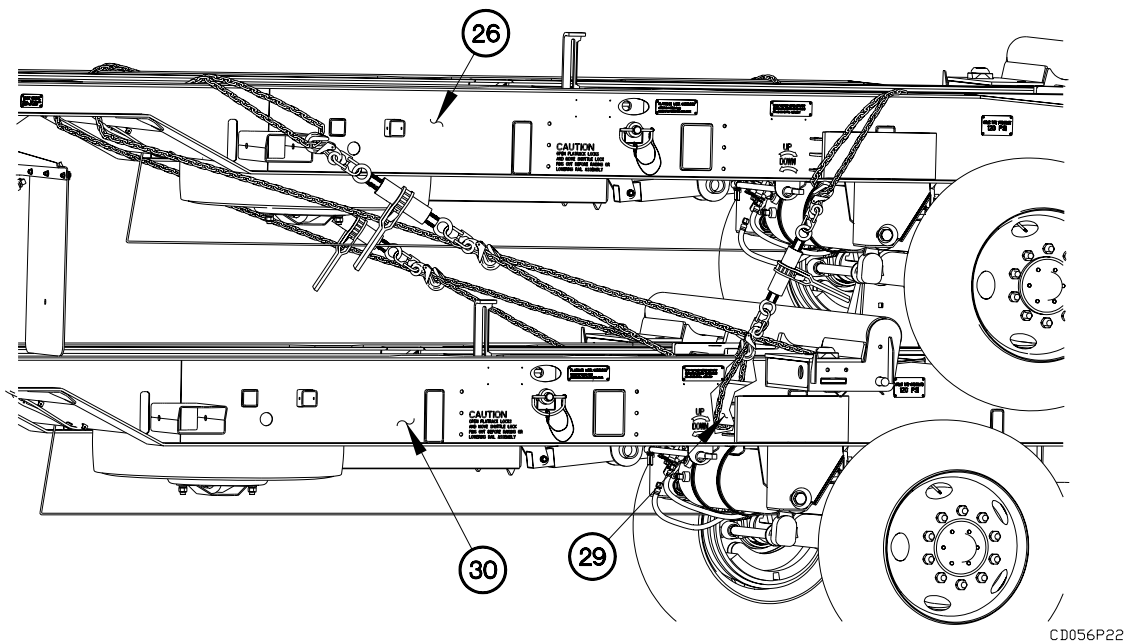


**STACKING - Continued****NOTE**

The chain on the inside of the cross member must pass through the opening made by the brace of the suspension hanger.

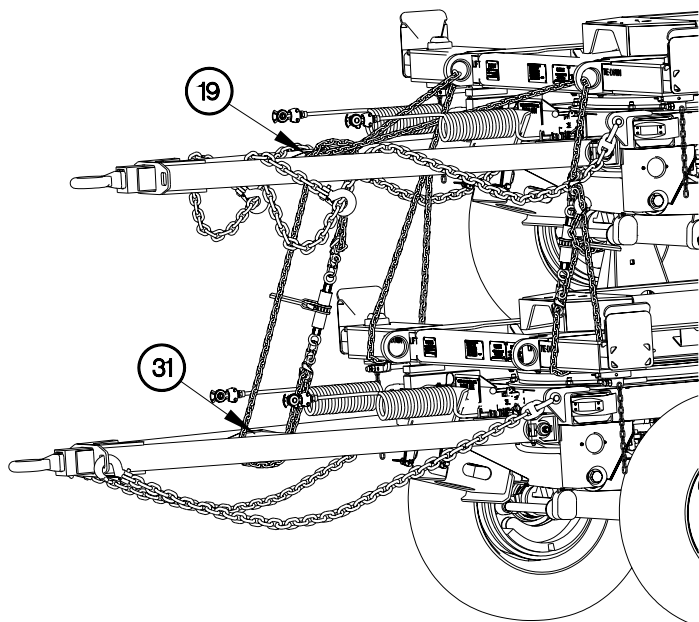
28. Place chain over frame rail (26) at suspension hangers of top trailer and loop around cross member (29) behind din locks (30) of bottom trailer and secure with binder. LH side shown.

29. Repeat previous step on RH side of trailer.



**STACKING - Continued**

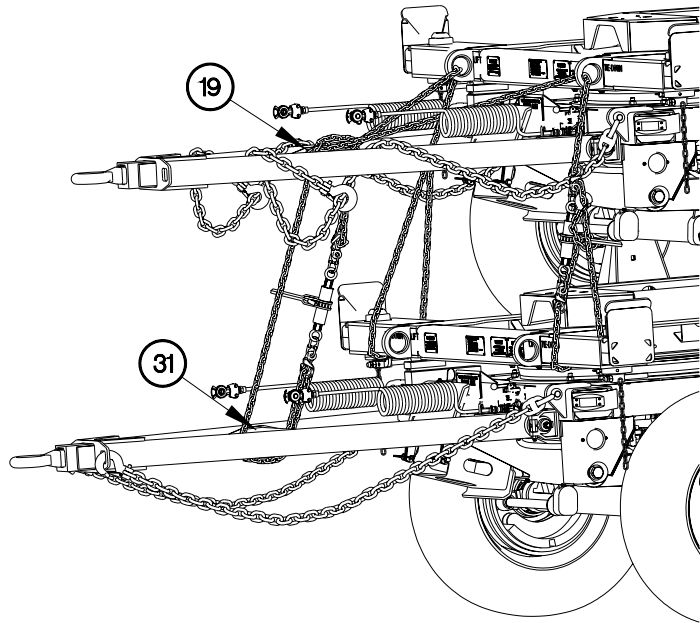
30. Place chain over drawbar crossmember (19) of top trailer around drawbar cross member (31) of bottom trailer.



CD056P23

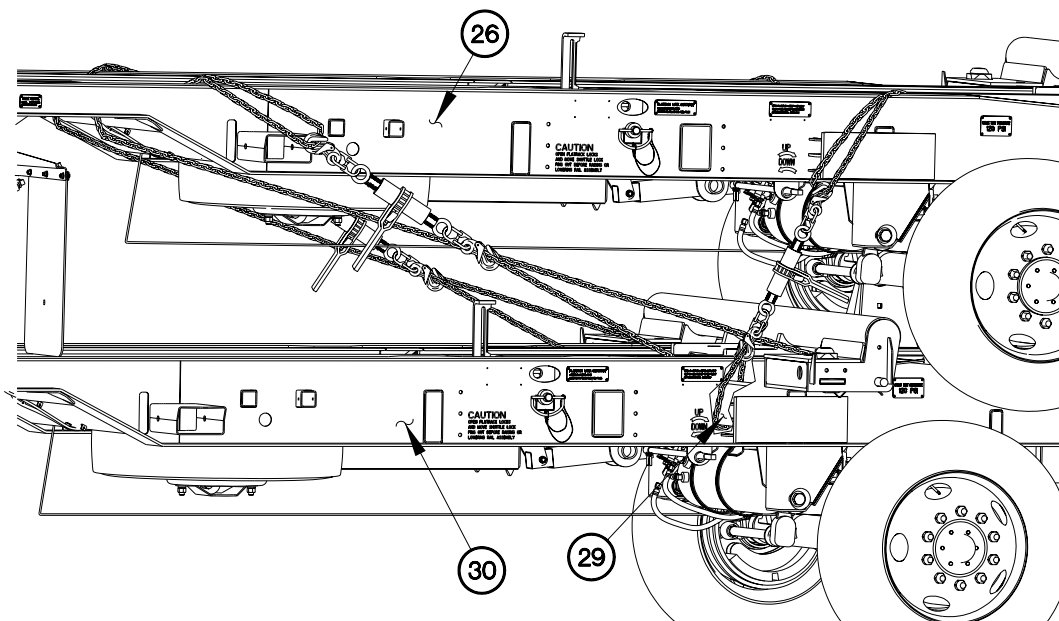
**UNSTACKING**

1. Remove chain from drawbar crossmember (19) of top trailer and drawbar crossmember (31) of bottom trailer.



CD056P23

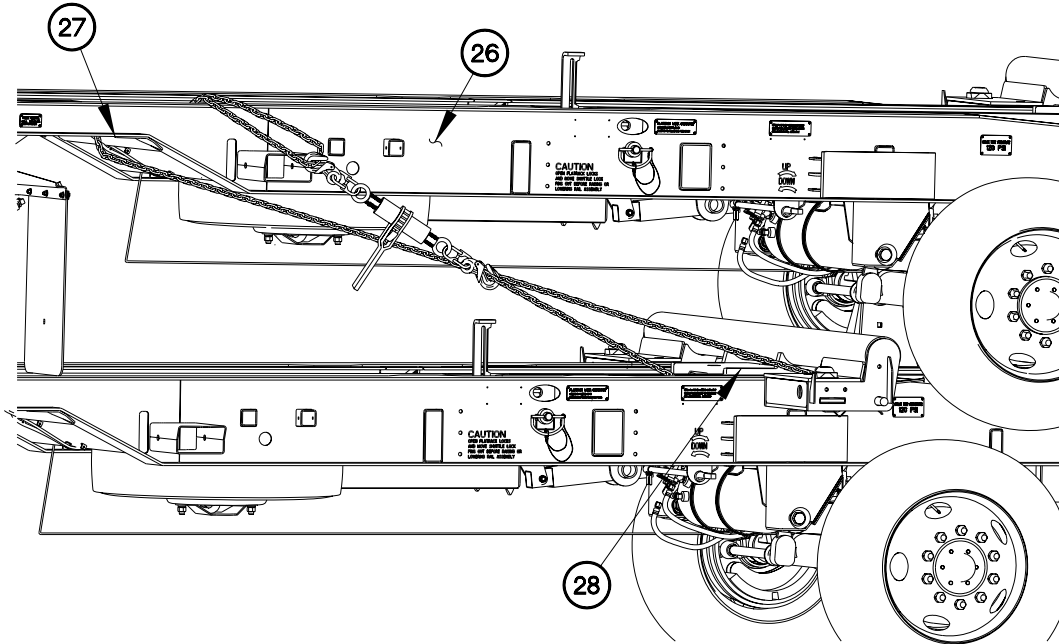
2. Remove chain from frame rail (26) at suspension hanger of top trailer and crossmember (29) behind din locks (30) of bottom trailer.



CD056P22

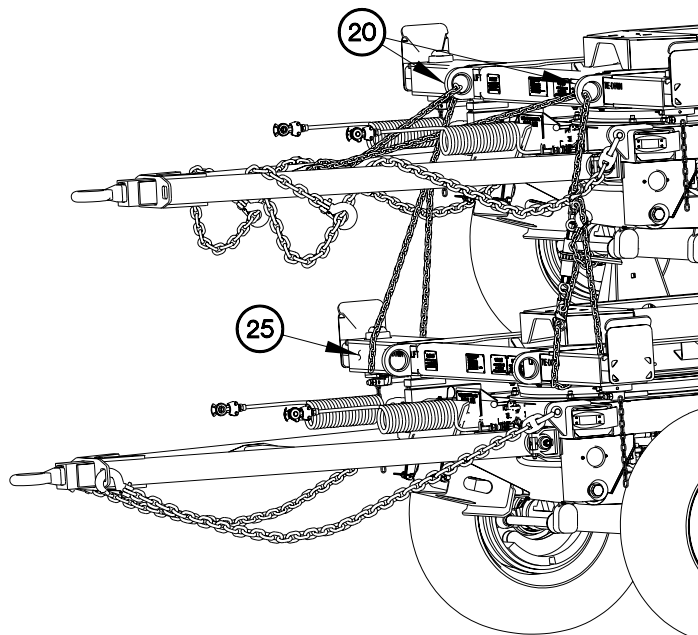
**PREPARATION FOR TRANSPORT - Continued****0056 00****UNSTACKING-Continued**

3. Remove chain over frame rail (26) at triangular crossmember (27) of top trailer and crossmember (28) of bottom trailer.



CD056P21

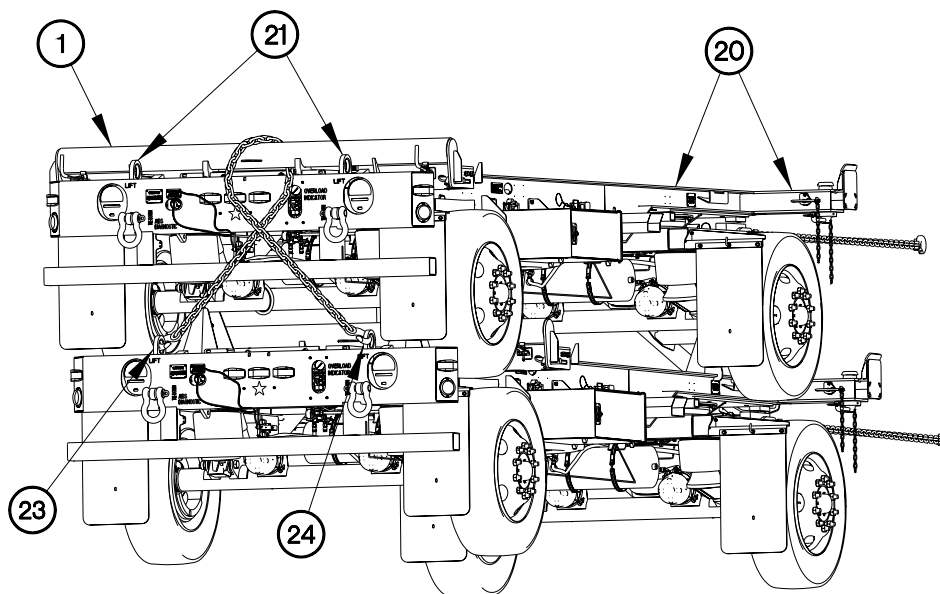
4. Remove chain from front crossmember (25) of bottom trailer and front lifting eyes (20) of top trailer.



CD056P20

**UNSTACKING-Continued**

5. Remove chain over shuttle (1) of top trailer and left (23) and right rear lifting eyes (24) of bottom trailer.

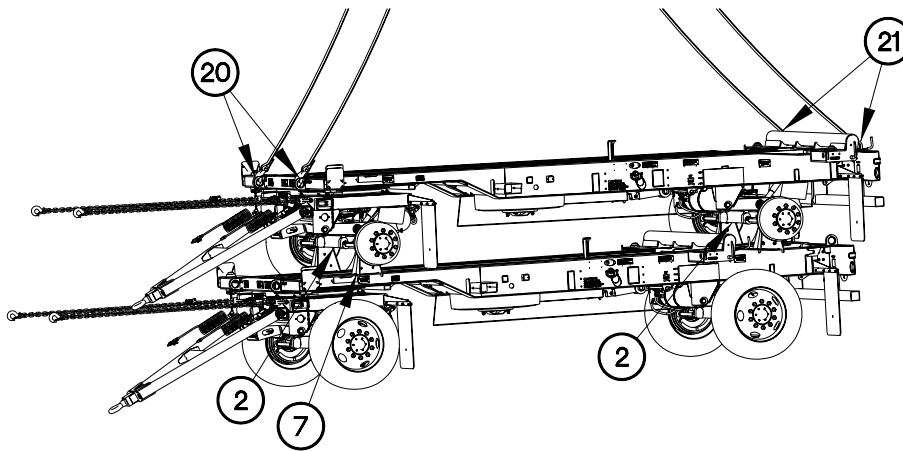


CD056P19

**UNSTACKING-Continued**

6. Attach chains from front (20) and rear (21) lifting eyes of top trailer to overhead lifting device.
7. Lift top trailer front and rear axles (2) from transport brackets (7) on bottom trailer using overhead lifting device and place on ground.

TIRES REMOVED  
FOR CLARITY

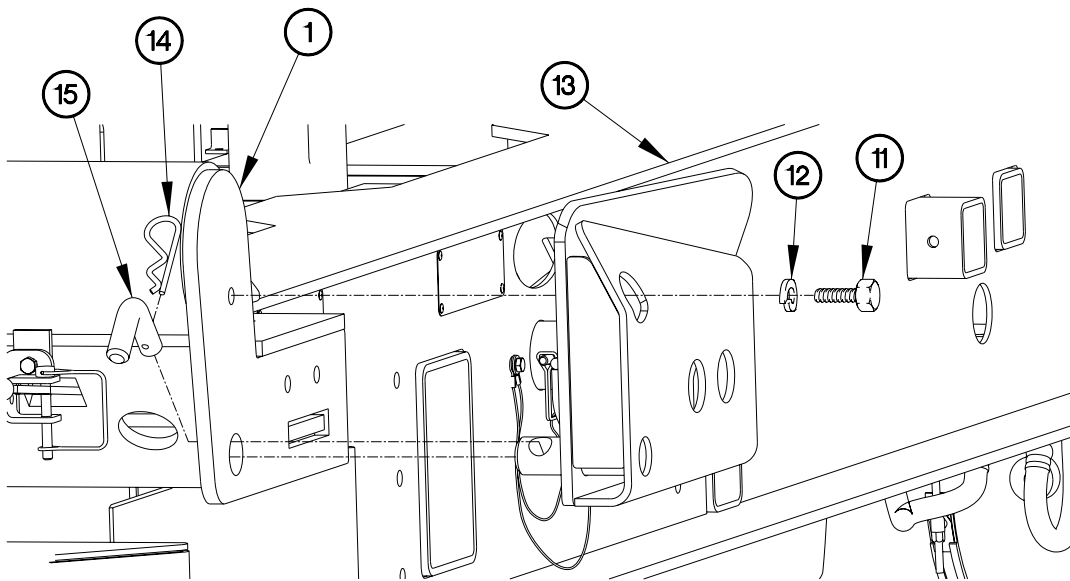


CD056P14

**UNSTACKING-Continued****NOTE**

Shuttle guide brackets are installed the same way on both LH and RH side. RH side shown.

8. Install shuttle guide bracket (13) on shuttle (1) with pin (15) and retaining pin (14).
9. Install three lockwashers (12) and bolts (11) in shuttle guide brackets (13).
10. Tighten three bolts (11) to 150-190 lb-ft (203-258 N•m).

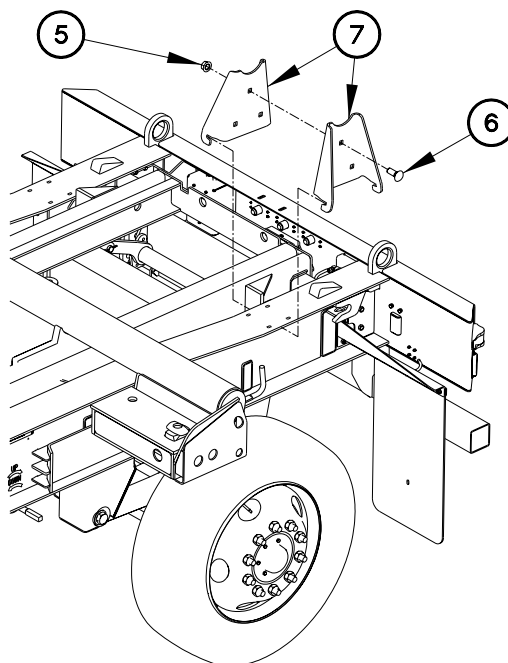


CD056P07



**UNSTACKING-Continued**

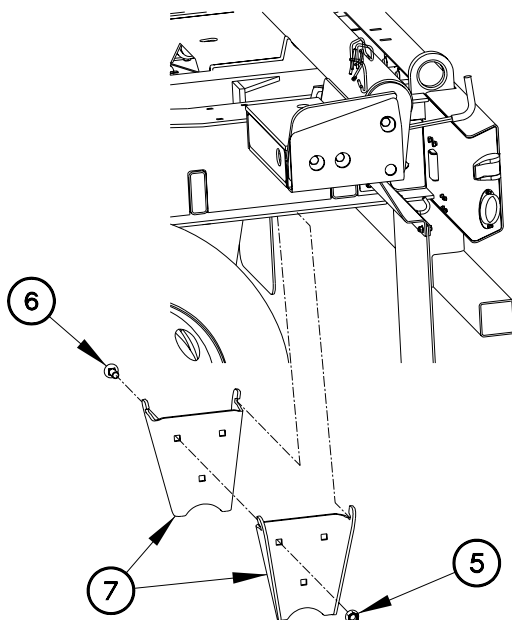
11. Remove three nuts (5) and bolts (6) from all four sets of transport brackets (7) on bottom trailer.
12. Remove transport brackets (7) from bottom trailer.



CD056P15

**UNSTACKING-Continued**

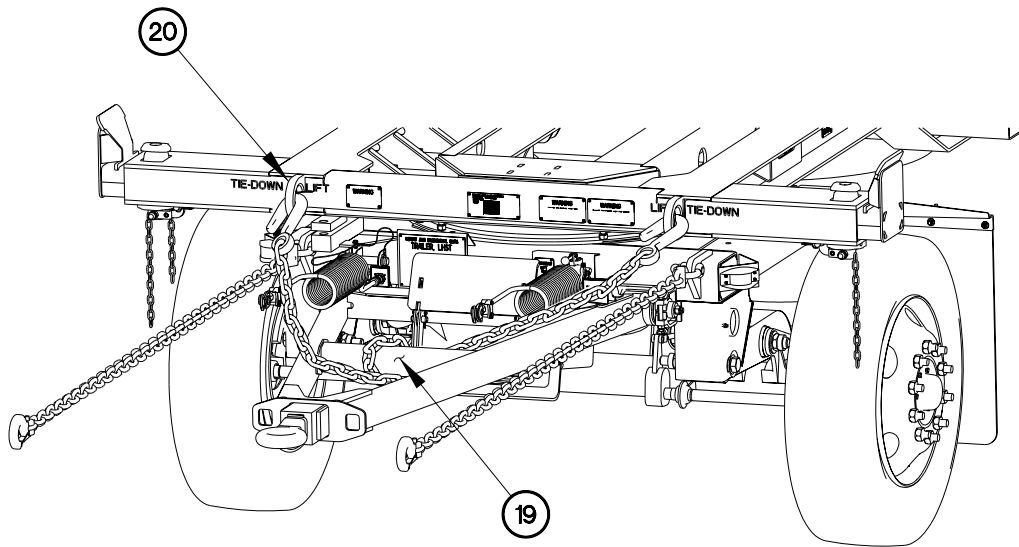
13. Rotate transport brackets (7) 180 degrees.
14. Position transport brackets (7) under rear splash guards on both top and bottom trailer.
15. Install three nuts (5) and bolts (6) in all four sets of transport brackets (7).



CD056P04

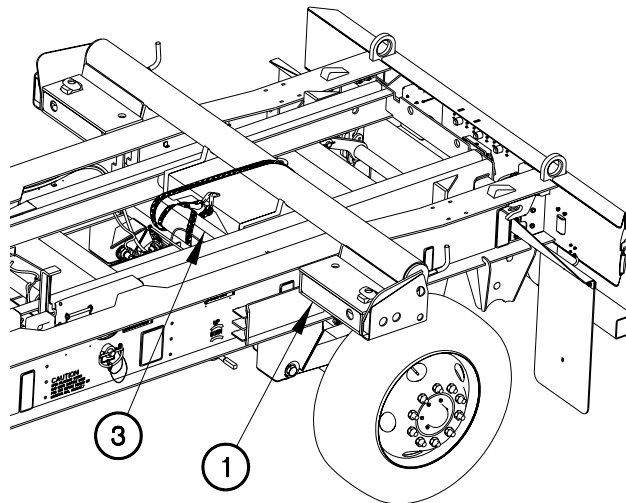
**UNSTACKING-Continued**

16. Remove chain from crossmember of drawbar (19) to front lifting eyes (20).
17. Lower drawbar (19) to ground (WP 0043 24, TM 2320-392-10-1).



CD056P08

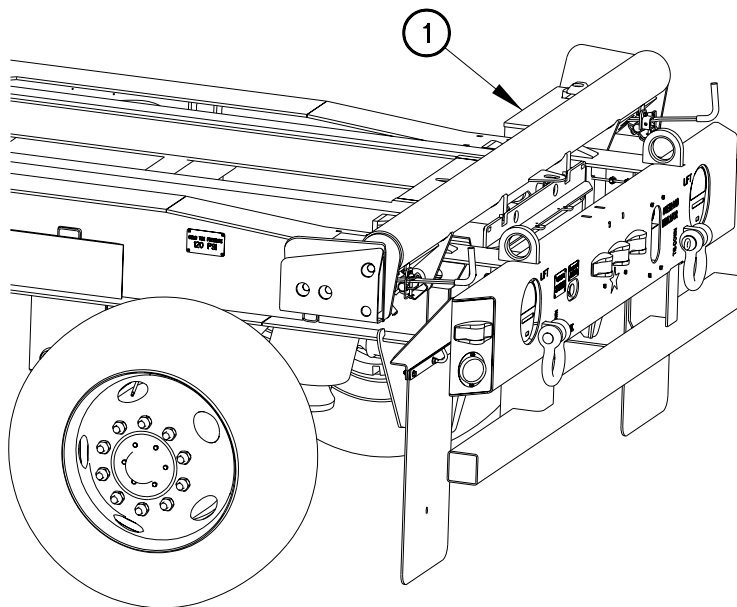
18. Remove chain from shuttle (1) to crossmember (3) of bottom trailer.



CD056P12

**UNSTACKING-Continued**

19. Secure shuttle (1) of bottom trailer in rear stowed position.



CD056P16

**END OF WORK PACKAGE**