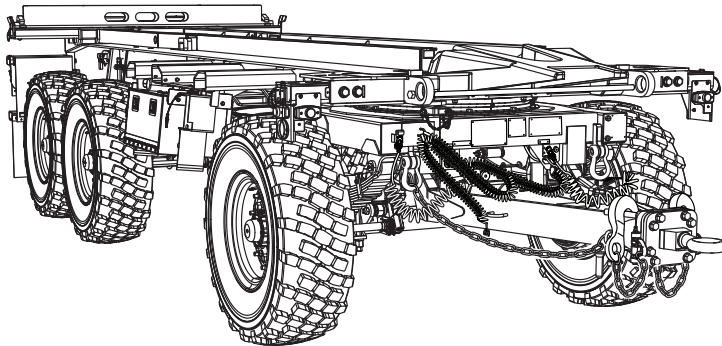


TM 9-2330-342-10

TECHNICAL MANUAL OPERATOR'S MANUAL FOR

PALLETIZED LOAD SYSTEM TRAILER (PLST) M1076 A1 NSN 2330-01-601-0759



DISTRIBUTION A - Approved for public release; distribution is unlimited.

**HEADQUARTERS, DEPARTMENT OF THE ARMY
28 SEPTEMBER 2012**

WARNING SUMMARY

GENERAL SAFETY CAUTION/WARNING SUMMARY

- This list summarizes critical warnings. They are repeated here to let you know how important they are.
- Study these warnings carefully.
- They can save your life and the lives of personnel you work with.
- If there is any doubt about handling tools, materials, equipment, and procedures, see TB 43-0216 (WP 0057) , Safety and Hazard Warnings for Operation and Maintenance of TACOM Equipment.

FIRST AID DATA

Reference FM 4-25.11. (WP 0057)

WARNING
ICON

DESCRIPTION



EAR PROTECTION - headphones over ears shows that noise level will harm ears.



ELECTRICAL - electrical wire to arm with electricity symbol running through human body shows that shock hazard is present.



ELECTRICAL - electrical wire to hand with electricity symbol running through hand shows that shock hazard is present.

WARNING SUMMARY - Continued



FALLING PARTS - arrow bouncing off human shoulder and head shows that falling parts present a danger to life or limb.



FLYING PARTICLES - arrows bouncing off face shows that particles flying through the air will harm face.



FLYING PARTICLES - arrows bouncing off face with face shield shows that particles flying through the air will harm face.



HEAVY OBJECT - human figure stooping over heavy object shows physical injury potential from improper lifting technique.



HEAVY PARTS - hand with heavy object on top shows that heavy parts can crush and harm.

WARNING SUMMARY - Continued



HEAVY PARTS - foot with heavy object on top shows that heavy parts can crush and harm.



HEAVY PARTS - heavy object on human figure shows that heavy parts present a danger to life or limb.



HEAVY PARTS - heavy object pinning human figure against wall shows that heavy, moving parts present a danger to life or limb.

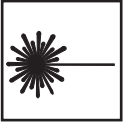


HELMET PROTECTION - arrow bouncing off head with helmet shows that falling parts present a danger.



HOT AREA - hand over object radiating heat shows that part is hot and can burn.

WARNING SUMMARY - Continued



LASER LIGHT - laser light hazard symbol indicates extreme danger for eyes from laser beams and reflections.



MOVING PARTS - human figure with an arm caught between gears shows that the moving parts of the equipment present a danger to life or limb.



MOVING PARTS - hand with fingers caught between gears shows that the moving parts of the equipment present a danger to life or limb.



MOVING PARTS - hand with fingers caught between rollers shows that the moving parts of the equipment present a danger to life or limb.



SHARP OBJECT - pointed object in hand shows that a sharp object presents a danger to limb.

WARNING SUMMARY - Continued



SHARP OBJECT - pointed object in hand shows that a sharp object presents a danger to limb.



SHARP OBJECT - pointed object in foot shows that a sharp object presents a danger to limb.



SLICK FLOOR - wavy line on floor with legs prone shows that slick floor presents a danger for falling.



BIOLOGICAL - abstract symbol bug shows that a material may contain bacteria or viruses that present a danger to life or health.



CHEMICAL - drops of liquid on hand shows that the material will cause burns or irritation to human skin or tissue.

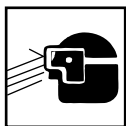
WARNING SUMMARY - Continued



CRYOGENIC - hand in block of ice shows that material is extremely cold and can injure human skin or tissue.



EXPLOSION - rapidly expanding symbol shows that the material may explode if subjected to high temperatures, sources of ignition, or high pressure.



EYE PROTECTION - person with goggles shows that the material will injure the eyes.



FIRE - flame shows that a material may ignite and cause burns.



POISON - skull and crossbones shows that a material is poisonous or is a danger to life.

WARNING SUMMARY - Continued



RADIATION - three circular wedges shows that the material emits radioactive energy and can injure human tissue.



VAPOR - human figure in a cloud shows that material vapors present a danger to life or health.

WARNING

MODIFICATION HAZARD

- Unauthorized modifications to, alterations to, or installations on this equipment are prohibited and are in violation of AR 750-10. (WP 0057)
- Failure to comply may result in injury or death to personnel or damage to equipment.

WARNING SUMMARY - Continued

WARNING



ELECTRICAL SYSTEM

- Remove all jewelry, such as rings, ID tags, bracelets, etc. If jewelry or tools contact electrical circuits, a direct short may result. Failure to comply may result in serious injury or death to personnel.
- Be careful when working on or with electrical equipment. Do not be misled by the term "low voltage". Voltages as low as 50 volts can cause death. For artificial respiration, refer to FM 4-25.11. (WP 0057)
- Never work on electronic equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment. Failure to comply may result in injury or death to personnel.

WARNING



MOVING MACHINERY

Use extreme care when operating or working near moving machinery including running engine, rotating shafts, and other moving parts. Failure to comply may result in injury or death to personnel.

WARNING SUMMARY - Continued

WARNING



HEAVY PARTS

Any part or component that weighs over 50 lbs (23 kg) must be removed with the aid of an assistant and a lifting device. Failure to comply may result in personal injury or death.

WARNING



BRAKES

Do not use trailer brakes as a parking brake. Trailer brakes may not hold loaded vehicle and trailer on a grade. A runaway vehicle may cause severe personal injury or death.

WARNING



LOAD HANDLING SYSTEM OPERATION

- Check for overhead power lines, ground condition for firmness, and other obstructions before attempting Load Handling System (LHS) operation. Failure to comply may result in injury or death to personnel.
- LHS hook maximum lifting height is 18 ft (5.5 m). Failure to comply can result in injury or death to personnel and/or damage to equipment.

WARNING SUMMARY - Continued

WARNING

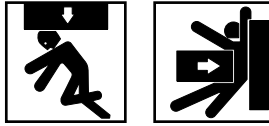


HEARING PROTECTION

- Wear single hearing protection (earplugs or equivalent) while working around equipment while it is running. Failure to do so could result in damage to your hearing.
- Seek medical aid should you suspect a hearing problem.

WARNING SUMMARY - Continued

WARNING

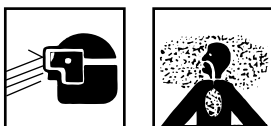


LIFTING OPERATIONS

- All personnel must stand clear during lifting operations. A swinging or shifting load may cause injury or death to personnel.
- Never crawl under equipment when performing maintenance unless equipment is securely blocked. Failure to comply may cause injury or death to personnel.
- Keep clear of equipment when it is being raised or lowered. Failure to comply may cause injury or death to personnel.
- Do not work on any item supported only by lift jacks or hoist. Always use blocks or proper stands to support the item prior to any work. Failure to comply may result in injury or death to personnel.
- Do not lift a load greater than the rated load capacity of the crane or materiel handling equipment. Failure to comply may result in injury or death to personnel or damage to equipment.
- Do not allow heavy components to swing while hanging by lifting device. Failure to comply may cause injury or death to personnel.
- Any part or component that weighs between 50 lbs (23 kg) and 75 lbs (34 kg) must be removed with the aid of an assistant. Any part or component that weighs over 75 lbs (34 kg) must be removed with the aid of an assistant and a lifting device. Failure to comply may cause injury or death to personnel.
- Ensure all chains, hooks, and slings are in good condition and are of correct capacity. Ensure hooks are positioned correctly. Failure to comply may result in injury or death to personnel.

WARNING SUMMARY - Continued

WARNING

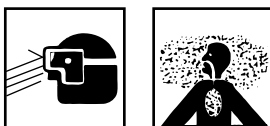


SOLVENT CLEANING COMPOUND

- Solvent cleaning compound MIL-PRF-680 Type II and III may be irritating to the eyes and skin. Use protective gloves and goggles. Use in a well-ventilated area. Use respirator as needed. Accidental ingestion can cause irritation of digestive tract and respiratory tract, may cause lung and central nervous system damage. Can be fatal if swallowed. Inhalation of high/massive concentrations can cause coma or be fatal. First aid for ingestion: do not induce vomiting. Seek immediate medical attention. First aid for skin contact: remove contaminated clothing. Wash skin thoroughly with soap and water. If symptoms persist, seek medical attention. First aid for eye contact: flush with water for 15 minutes or until irritation subsides. If symptoms persist, seek medical attention. First aid for inhalation: move to fresh air. If not breathing, provide artificial respiration. If symptoms persist, seek medical attention. Keep away from open flames and other sources of ignition. Failure to follow this warning may result in injury or death to personnel.
- The flashpoint for Type II solvent cleaning compound is 141-198°F (61-92°C), and Type III is 200-241°F (93-116°C).
- Improper cleaning methods and use of unauthorized cleaning solvents may injure personnel and damage equipment.
- Fire extinguishers should be placed nearby when using solvent cleaning compound. Failure to follow this warning may result in injury or death.
- Cloths or rags saturated with solvent cleaning compound must be disposed of In Accordance With (IAW) authorized facilities' procedures. Failure to follow this warning may result in injury.
- Eye shields must be worn when cleaning with a wire brush. Flying rust and metal particles may cause injury.

WARNING SUMMARY - Continued

WARNING



ADHESIVE

- Adhesive, solvents, and sealing compounds can burn easily and are harmful causing immediate bonding on contact with eyes, skin, or clothing and give off harmful vapors.
- If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water.
- If adhesive gets in your eyes, try to keep them open; flush them with water for 15 minutes and get immediate medical attention.
- Wear protective goggles and use in a well-ventilated area.
- Keep away from open fire and use in well-ventilated area to avoid injury or death.

WARNING

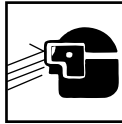


FLAMMABLE LIQUID AND COMBUSTIBLE VAPOR

- Gasoline, fuel oil, lubricating oil, grease, paint, paint thinner, cleaning solvents, and other combustible liquids present a serious fire hazard.
- Combustible liquids must ALWAYS be stored in their approved containers and designated compartments or deck storage locations.
- Ensure exhaust and ventilation fans are operating while using cleaning solvents or paint products.

WARNING SUMMARY - Continued

WARNING



PARTS UNDER PRESSURE

- Wear safety goggles and use caution when removing or installing springs, snap rings, retaining rings, and other parts under spring tension. These parts can act as projectiles. Failure to comply may result in injury or death to personnel.
- During pressure tests, ensure air pressure is drained to 0 psi (0 kPa) before taking off any components. If pressure is not released, plates or line could blow off and harm personnel. Do not drain air from tank with any part of body in air spray path. Skin embolisms and/or debris in eyes can occur from released pressure.
- High air pressure may be released from valve stem when valve core is removed. Stay clear of valve stem after core is removed. Ensure all personnel wear suitable eye protection. Failure to comply may result in injury to personnel.
- Stand clear of trajectory area during deflation or personal injury or death may result.
- If there is any residual pressure in tank when relief valve is open, personnel may lose their balance and fall. Failure to comply may result in injury or death to personnel.
- Failure to relieve tank pressure may result in sudden, unexpected loss of pressure. Failure to comply may result in personal injury or death.

WARNING SUMMARY - Continued

WARNING



NUCLEAR, BIOLOGICAL, AND CHEMICAL (NBC)

- NBC-contaminated air filters must be handled and disposed of only by authorized and trained personnel.
- The unit commander or senior officer in charge of maintenance personnel must ensure that prescribed protective clothing (FM 3-11.4) (WP 0057) is used, and prescribed safety measures and decontamination procedures (FM 3-11.5) (WP 0057) are followed.
- The local unit Standard Operating Procedures (SOP) is responsible for final disposal of contaminated air filters. Failure to comply may cause severe injury or death to personnel.

WARNING SUMMARY - Continued

WARNING



TIRE OPERATION

- Operating a vehicle with a tire in an overinflated or underinflated condition, or with a questionable defect, may lead to premature tire failure. Ensure tire has proper tire pressure. Failure to comply may result in injury or death to personnel.
- When inflating tires mounted on the vehicle, all personnel must remain out of trajectory of the side ring and lock-ring as shown by the areas indicated. Failure to follow proper procedures may result in serious injury or death to personnel.
- Failure to place wheel/tire assembly in safety cage prior to initial inflation could result in serious injury or death to personnel.
- When a wheel/tire is in a restraining device, do not rest or lean any part of body or equipment on or against the restraining device, or injury or death could result.
- While changing tires or while performing tire maintenance, stay out of the trajectory path. Failure to comply may result in injury or death to personnel.
- Always use an inflation hose with an in-line gauge and a clip-on chuck when inflating tires. The gauge and valve must be mounted a minimum of 10 ft (3.10 m) away from air chuck.
- Tire is heavy. Brace tire to ensure tire will not fall over on you or on others. Failure to comply may result in injury or death to personnel.

LIST OF EFFECTIVE PAGES/WORK PACKAGES

NOTE: Zero in the "Change No." column indicates an original page or work package.

Date of issue for the original manual is:

Original 28 September 2012

**TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 58 AND
TOTAL NUMBER OF WORK PACKAGES IS 60, CONSISTING OF THE
FOLLOWING:**

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Front Cover	0	WP 0028 (8 pages)	0
Warning Summary	0	WP 0029 (6 pages)	0
i-xxiv	0	WP 0030 (2 pages)	0
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WP 0001 (6 pages)	0	WP 0032 (4 pages)	0
WP 0002 (8 pages)	0	WP 0033 (2 pages)	0
WP 0003 (6 pages)	0	WP 0034 (4 pages)	0
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WP 0004 (2 pages)	0	WP 0035 (4 pages)	0
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WP 0016 (6 pages)	0	Chp 4 title page	0
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Chp 6 title page	0	WP 0060 (2 pages)	0
WP 0057 (4 pages)	0	Back cover	0
WP 0058 (8 pages)	0		

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 28 SEPTEMBER 2012

TECHNICAL MANUAL
OPERATOR'S MANUAL
FOR
PALLETIZED LOAD SYSTEM TRAILER (PLST)
M1076 A1
NSN 2330-01-601-0759

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any errors, or if you would like to recommend any improvements to the procedures in this publication, please let us know. The preferred method is to submit your DA Form 2028 (Recommended Changes to Publications and Blank Forms) through the Internet on the TACOM Unique Logistics Support Applications (TULSA) Web site. The Internet address is <https://tulsa.tacom.army.mil>. Access to all applications requires CAC authentication, and you must complete the Access Request form the first time you use it. The DA Form 2028 is located under the TULSA Applications on the left-hand navigation bar. Fill out the form and click on SUBMIT. Using this form on the TULSA Web site will enable us to respond more quickly to your comments and to better manage the DA Form 2028 program. You may also mail, e-mail, or fax your comments or DA Form 2028 directly to the U.S. Army TACOM Life Cycle Management Command. The postal mail address is U.S. Army TACOM Life Cycle Management Command, ATTN: AMSTA-LCL-MPP / TECH PUBS, MS 727, 6501 E. 11 Mile Road, Warren, MI 48397-5000. The e-mail address is tacomlcmc.daform2028@us.army.mil. The fax number is DSN 786-1856 or Commercial (586) 282-1856. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

USABLE ON CODE (UOC) INFORMATION

Usable On Code (UOC): The user should be aware that the Palletized Load System Trailer (PLST) M1076 A1 UOC is "TL1."

WARNINGS, CAUTIONS, AND NOTES

Read all WARNINGS, CAUTIONS, and NOTES before performing any procedure.

Warnings, cautions, notes, subject headings, and other essential information are printed in **BOLD** type, making them easier for the user to see.

GENERAL INFORMATION

This manual is designed to help operate and maintain the Palletized Load System Trailer (PLST) M1076 A1. Listed below are some features included in this manual to help locate and use the required information:

- Chapter 1 of this manual includes PLST M1076 A1 general information, equipment description, and theory of operation.
- Chapter 2 of this manual provides operator instructions for both the PLST M1076 A1 and its accompanying operating systems.
- Chapter 3 of this manual provides operator troubleshooting procedures for both the PLST M1076 A1 and its accompanying operating systems.
- Chapter 4 of this manual provides operator Preventive Maintenance Checks and Services (PMCS) for the PLST M1076 A1.
- Chapter 5 of this manual provides operator maintenance instructions for the PLST M1076 A1.
- Chapter 6 of this manual provides supporting information for the PLST M1076 A1.

In addition to text, there are illustrations showing:

1. Components, controls, and indicators.
2. How to take a component off, and put it back on.
3. Cleaning and inspection criteria are also listed when necessary.

CHAPTER 1

GENERAL INFORMATION, EQUIPMENT DESCRIPTION, AND THEORY OF OPERATION

OPERATOR MAINTENANCE GENERAL INFORMATION

SCOPE

This manual is used for operation, operator maintenance, and troubleshooting of the Palletized Load System Trailer (PLST) M1076 A1. The PLST M1076 A1 provides a simple and effective way to load/unload a container from a vehicle to the trailer and back without using a flatrack. This is done with the use of the cart that is located on the back of the trailer and the Load Handling System (LHS) with either a Container Handling Unit (CHU) or Enhanced Container Handling Unit (ECHU). The cart can be positioned in three different configurations (container mode, flatrack mode, or stored on the bumper) depending on the mission. Flatracks and Engineering Mission Modules (EMM) can also be loaded/unloaded onto the PLST M1076 A1 using the Load Handling System (LHS).

MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your PLST M1076 A1 needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design or performance.

All non-Aviation/Missile EIRs and PQDRs must be submitted through the Product Data Reporting and Evaluation Program (PDREP) Web site. The PDREP site is: <https://www.pdrep.csd.disa.mil/>.

If you do not have Internet access, you may submit your information using an SF 368 (Product Quality Deficiency Report). You can send your SF 368 using email, regular mail, or fax using the addresses/fax numbers specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual. We will send you a reply.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

Corrosion specifically occurs with metals. It is an electrochemical process that causes the degradation of metals. It is commonly caused by exposure to moisture, acids, bases, or

CORROSION PREVENTION AND CONTROL (CPC) - Continued

salts. An example is the rusting of iron. Corrosion damage in metals can be seen, depending on the metal, as tarnishing, pitting, fogging, surface residue, and/or cracking.

Plastics, composites, and rubbers can also degrade. Degradation is caused by thermal (heat), oxidation (oxygen), solvation (solvents), or photolytic (light, typically UV) processes. The most common exposures are excessive heat or light. Damage from these processes will appear as cracking, softening, swelling, and/or breaking.

SF Form 368, Product Quality Deficiency Report should be submitted to the address specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Command decision, according to the tactical situation, will determine when the destruction of the equipment will be accomplished. A destruction plan will be prepared by the using organization unless one has been prepared by a higher authority. Refer to TM 750-244-6, Procedures for Destruction of Tank Automotive Equipment to Prevent Enemy Use, for general destruction procedures.

PREPARATION FOR STORAGE OR SHIPMENT

For detailed information on preparing the PLST M1076 A1 for storage or shipment refer to <https://www.ilsc.army.mil/tdps/index.asp>.

WARRANTY INFORMATION

The PLST M1076 A1 is warranted for 12 months. The warranty starts on the date found in block 23 of DA Form 2408-9, Equipment Control Record. Report all defects to your supervisor, who will take appropriate action.

NOMENCLATURE CROSS-REFERENCE LIST

Table 1. Nomenclature Cross-Reference List.

Common Name	Official Nomenclature
Gladhand	Quick disconnect air coupling
Service Brake Pedal	Brake pedal
Throttle Pedal	Throttle control
Towing Eye	Drawbar lunette

NOMENCLATURE CROSS-REFERENCE LIST - Continued***Table 1. Nomenclature Cross-Reference List - Continued.***

Common Name	Official Nomenclature
Towing Pintle	Self-guiding coupler

LIST OF ABBREVIATIONS***Table 2. List of Abbreviations.***

AAL	Additional Authorization List
BII	Basic Issue Item
C	Centigrade
CAGEC	Commercial and Government Entity Code
CHU	Container Handling Unit
cm	Centimeter
COEI	Components of End Item
CTA	Common Table of Allowances
CTIS	Central Tire Inflation System
DA	Department of the Army
ECHU	Enhanced Container Handling Unit
EIR	Equipment Improvement Recommendation
EMM	Engineering Mission Module
F	Fahrenheit
FLA	Front Lift Adapter
FR	Flatrack

LIST OF ABBREVIATIONS - Continued***Table 2. List of Abbreviations - Continued.***

ft	Foot
GAWR	Gross Axle Weight Rating
GVWR	Gross Vehicle Weight Rating
IAW	In Accordance With
in.	Inch
ISO	International Organization for Standardization
JTA	Joint Table of Allowances
kg	Kilogram
km/h	Kilometer Per Hour
kPa	Kilopascal
lb	Pound
LHS	Load Handling System
m	Meter
MHC	Material Handling Crane
mm	Millimeter
mph	Miles Per Hour
MTOE	Modified Table of Equipment and Allowances
NBC	Nuclear, Biological, and Chemical
NSN	National Stock Number
PLS	Palletized Load System

LIST OF ABBREVIATIONS - Continued***Table 2. List of Abbreviations - Continued.***

PLST	Palletized Load System Trailer
PMCS	Preventive Maintenance Checks and Services
PR	Pair
psi	Pounds Per Square Inch
QTY	Quantity
RPM	Revolutions Per Minute
TAMMS	The Army Maintenance Management System
TDA	Tables of Distribution and Allowance
TM	Technical Manual
U/I	Unit Of Issue
UV	Ultraviolet

SAFETY, CARE, AND HANDLING

Beware of payload movement during normal loading/unloading operations. Ensure tiedown straps and cargo net are correctly installed. Flatrack should be loaded on vehicle or trailer using Load Handling System (LHS), Material Handling Crane (MHC), or other suitable lifting device. Never walk under flatrack while it is being lifted, loaded, or unloaded.

For M1 flatrack, ensure sideboard kit is also correctly installed. The M1 flatrack should be loaded on vehicle or trailer using Load Handling System (LHS). M1 flatracks should be stacked using a forklift. When lifting loaded M1 flatrack, the forklift pockets located nearest the ends of the M1 flatrack must be used.

When loading/unloading container on trailer using cart, ensure cart container locks are properly secured and ISO locks and pins are properly installed. When loading/unloading container on trailer using cart, use a Load Handling System (LHS) with either a Container Handling Unit (CHU) or Enhanced Container Handling Unit (ECHU) without a flatrack.

END OF WORK PACKAGE

OPERATOR MAINTENANCE EQUIPMENT DESCRIPTION AND DATA

EQUIPMENT CHARACTERISTICS, CAPABILITIES AND FEATURES

The PLST M1076 A1 Trailer carries flatracks and ISO containers up to a gross weight of 35,750 (16,231 kg). Flatracks and Engineering Mission Modules (EMM) are loaded/unloaded onto the PLST M1076 A1 using a Load Handling System (LHS). ISO containers are loaded/unloaded onto the PLST M1076 A1 using a Load Handling System (LHS) with either a Container Handling Unit (CHU) or Enhanced Container Handling Unit (ECHU).

Trailer Capabilities

Capable of towing speeds up to 55 mph (88.5 km/h).

Trailer Features

1. Three axles and six heavy duty tires.
2. Adjustable drawbar.
3. High maneuverability.
4. Onboard air system for operation of air brakes, load locks, and drawbar assist.
5. 12 volt and 24 volt electrical hookups to the tow vehicle.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

Major components and accessories found on the PLST M1076 A1 are illustrated and described below.

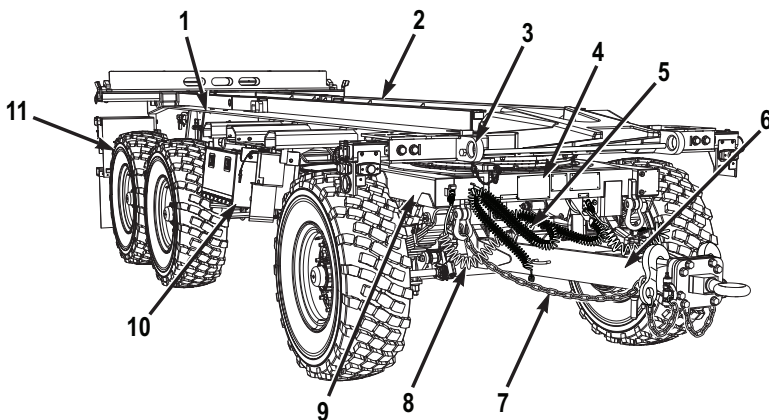


Figure 1. Location and Description of Major Components.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued

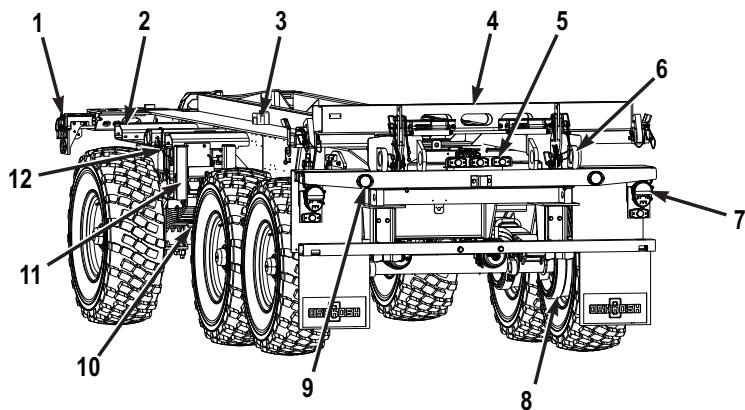


Figure 2. Location and Description of Major Components.

Table 1. Location and Description of Major Components.

Item Number	Description	Use
Figure 1, Item 6	DRAWBAR	Provides a simple way to pull and guide the trailer.
Figure 1, Item 5	12V/24V VEHICULAR LIGHTING CONNECTORS	12 and 24 volt adapter connectors provide connectors for the vehicle 12 volt/24 volt system to be hooked to the trailer.
Figure 1, Item 7	SAFETY CHAINS	Provides a safety backup to drawbar.
Figure 1, Item 8	AIR LINES	Provides a means to link air system of vehicle to trailer.
Figure 1, Item 9	TURNTABLE	Provides front axle steering.
Figure 1, Item 10	STOWAGE BOX	Provides a place to store Basic Issue Items.
Figure 1, Item 11	TIRES	Provides excellent cross-country mobility.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued***Table 1. Location and Description of Major Components - Continued.***

Item Number	Description	Use
Figure 1, Item 1	FRAME	Provides a main support for loads and flatrack.
Figure 1, Item 3 Figure 2, Item 6	LIFTING EYES	Provides means to lift trailer.
Figure 1, Item 2	GUIDE RAILS	Provides guides for flatrack or cart during loading and unloading.
Figure 1, Item 4	DATA PLATES	Provides information on operation and technical details of the trailer.
Figure 2, Item 7	REAR COMBINATION LIGHTS	Provides stop, turn, and blackout lights.
Figure 2, Item 9	REFLECTORS	Provides safety marking.
Figure 2, Item 8	PARKING BRAKES AND SERVICE BRAKES	Provides stopping capability and holds the trailer in place when parked.
Figure 2, Item 10	SPARE TIRE	Provides tire-change capability during mission.
Figure 2, Item 2	LOADING STRUTS	Provides trailer-stacking capability.
Figure 2, Item 1	SIDE MARKER LIGHTS	Provides safety marking to sides.
Figure 2, Item 3	LOAD LOCKS	Provides for locking of flatracks to trailer frame.
Figure 2, Item 5	REAR MARKER LIGHTS	Provides safety marking to the rear.
Figure 2, Item 4	CART	Provides a way to load/unload a container from a vehicle to the trailer and back without using a flatrack.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued**Table 1. Location and Description of Major Components - Continued.**

Item Number	Description	Use
Figure 2, Item 11	FRONT BUMPER EXTENSION	Provides correct distance between vehicle and trailer when loading/unloading container when using vehicles equipped with an ECHU.
Figure 2, Item 12	ISO LOCKS	Provides the means to attach the front of the container to the trailer.

EQUIPMENT DATA

Refer to the following tables for specific trailer equipment data and center of gravity data.

Table 2. Trailer Dimensions.

Item	Specification
Overall length (drawbar extended)	330 in. (8,382 mm)
Drawbar length	
Fully extended	88.9 in. (2,258 mm)
Fully retracted	64.9 in. (1,648 mm)
Overall width	99.6 in. (2,529 mm)
Overall height (approximate) (cart stowed on bumper)	59 in. (1,499 mm)
Deck height	
Unloaded (approximate)	54 in. (1,372 mm)
Loaded (approximate)	51 in. (1,295 mm)

EQUIPMENT DATA - Continued**Table 2. Trailer Dimensions - Continued.**

Item	Specification
Distance between front and second axle	124.7 in. (3,167 mm)
Distance between second and third axle	50.6 in. (1,285 mm)
Front and rear track	80.5 in. (2,045 mm)
Ground clearance under axles	18.0 in. (457 mm)
Wheel base ground clearance under spare wheel	22.8 in. (579 mm)
Main frame length	226.4 in. (5,751 mm)
Curb weight	13,750 lb (6,242 kg)
Gross Vehicle Weight Rating (GVWR)	49,500 lb (22,453 kg)
Nominal payload with flatrack	35,750 lb (16,231 kg)
Maximum payload	35,750 lb (16,231 kg)

Table 3. Trailer Performance.

Item	Specification
Maximum speed	55 mph (88 km/h)
Steering angle of turntable	90 degrees
Side slope with 20 foot ISO container	30 percent
Side slope with EMM	20 percent
Fording depth	48 in. (1,219 mm)

EQUIPMENT DATA - Continued

Table 4. Trailer Electrical System.

Item	Specification
Voltage	12/24 dual voltage

Table 5. Trailer Wheels.

Item	Specification
Type	Two piece, bolt together
Quantity	Six
Trailer Spare Wheel Quantity	One
Rim Size	20 by 10
Stud Quantity Per Wheel	Ten

Table 6. Trailer Tires.

Item	Specification
Tires	Tubeless
Quantity	Six
Spare Quantity	One
Tread Type	All terrain, non-directional
Size	15.5/80R20 PXL T LRJ

Table 7. Trailer Tire Pressure (Cold).

Driving Condition	Front Axle	Rear Tandem
Highway	87 psi (600 kPa)	80 psi (552 kPa)
Cross Country	51 psi (352 kPa)	46 psi (317 kPa)

EQUIPMENT DATA - Continued**Table 7. Trailer Tire Pressure (Cold) - Continued.**

Driving Condition	Front Axle	Rear Tandem
Mud, Sand, and Snow	32 psi (221 kPa)	29 psi (200 kPa)

Table 8. Trailer Axles.

Item	Specification
Axle No. 1 Weight Fully Loaded	19,020 lb (8,627 kg)
Axle No. 1 Weight Curb	5,847 lb (2,655 kg)
Axle No. 2 and 3 Weight Fully Loaded	30,480 lb (13,826 kg)
Axle No. 2 and 3 Weight Curb	7,903 lb (3,588 kg)

Table 9. Trailer Brake System.

Item	Specification
Actuation	Air
Number of Brake Chambers	Six

Table 10. Trailer Drawbar.

Item	Specification
Drawbar:	
Adjustment	Manual, two position
Operation	Air assist

Table 11. Trailer Load Classification Chart.

Trailer	Load Class Number
Unloaded	7

EQUIPMENT DATA - Continued

Table 11. Trailer Load Classification Chart - Continued.

Trailer	Load Class Number
Loaded	24

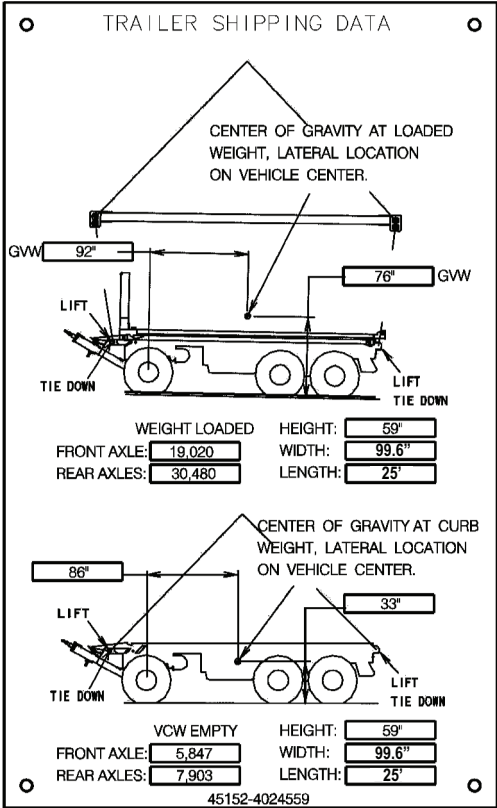


Figure 3. Equipment Data.

END OF WORK PACKAGE

OPERATOR MAINTENANCE THEORY OF OPERATION

SYSTEMS INTRODUCTION

This section provides a basic explanation of major systems on the PLST M1076 A1.

PALLETIZED LOAD SYSTEM TRAILER (PLST) M1076 A1

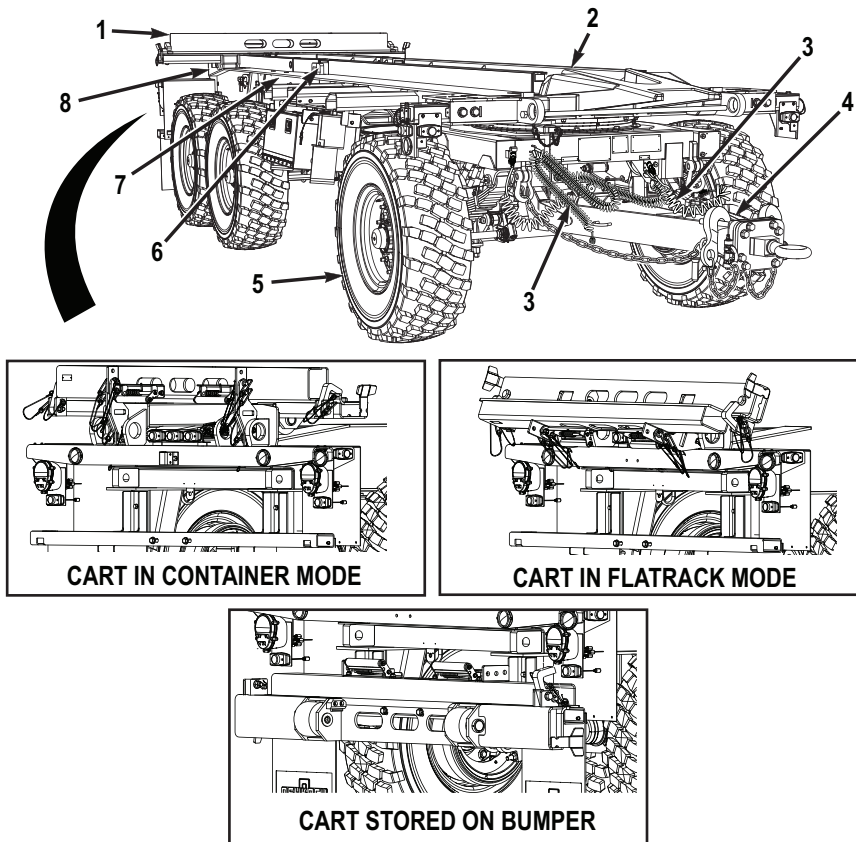


Figure 1. Palletized Load System Trailer (PLST) M1076 A1.

The PLST M1076 A1 (Figure 1, Item 7) is a three axle trailer designed to carry Flatracks (FR) and ISO containers up to a gross weight of 35,750 (16,231 kg). Flatracks and Engineering Mission Modules (EMM) are loaded/unloaded onto the PLST M1076 A1 (Figure 1, Item 7) using the Load Handling System (LHS). It can accommodate both full and partial

PALLETIZED LOAD SYSTEM TRAILER (PLST) M1076 A1 - Continued

loaded flatracks. ISO containers are loaded/unloaded onto the PLST M1076 A1 (Figure 1, Item 7) using the Load Handling System (LHS) with either a Container Handling Unit (CHU) or Enhanced Container Handling Unit (ECHU). This is done with the use of the cart (Figure 1, Item 1) that is located on the back of the PLST M1076 A1 (Figure 1, Item 7). The cart (Figure 1, Item 1) can be positioned in three different configurations (container mode, flatrack mode, or stored on the bumper) depending on the mission. Guides (Figure 1, Item 2) laterally position the FR on the trailer rear stops (Figure 1, Item 8) and these locate the longitudinal position of the FR in relation to the PLST M1076 A1 (Figure 1, Item 7). These stops prevent the FR from sliding rearward. A pneumatic locking device (Figure 1, Item 6), located between the frame rails just above the second axle, hooks to engage the lock points and secure the FR to the PLST M1076 A1 (Figure 1, Item 7). An air valve controls the position of the lock hooks. Springs retain the hooks in the locked position. The PLST M1076 A1 (Figure 1, Item 7) has a standard 12 volt electrical system with 24 volt military adapters. Also provided are two intervehicular electrical connecting cables (Figure 1, Item 3) of sufficient length to reach the towing vehicle. Two towing eyes, at the rear of the PLST M1076 A1 (Figure 1, Item 7) permit towing with a medium-duty tow bar. The spare-tire carrier is behind the first axle (Figure 1, Item 5). The spare-tire is held in place with bolts through the wheel bolt pattern. The spare tire and wheel assembly can be raised and secured in the spare tire carrier by the trailer-provided hand-operated winch. The PLST M1076 A1 (Figure 1, Item 7) uses turntable-type steering for tracking and turning and is equipped with a two position adjustable drawbar (Figure 1, Item 4). The PLST M1076 A1 (Figure 1, Item 7) is also equipped with an air braking system. All three axles use 16.5 in. diameter by 7 in. wide (419 mm by 178 mm) S-cam brakes. The PLST M1076 A1 (Figure 1, Item 7) has a dual brake system with separate service and emergency brake system. The PLST M1076 A1 (Figure 1, Item 7) brake system is activated and charged by the vehicle air supply. The brakes are self-adjusting.

PLST SERVICE BRAKES

The six service brakes on the PLST M1076 A1 are powered by 24/20 in. (610/508 mm) brake chambers. Six-inch automatic slack adjusters are provided with all brake chambers. The service brakes are activated when a signal from the foot-operated treadle valve or hand-operated control valve is sent through a series of relay valves. The relay valves convert the proportioned service-brake signal from the vehicle into a regulated service brake chamber pressure.

PLST PARKING BRAKES

Spring-chamber parking brakes are provided on all PLST M1076 A1 axles. The application and release of the six PLST M1076 A1 spring brakes is controlled by a spring brake control valve. An absence of air pressure in the emergency/spring-brake supply line causes the spring-brake control valve to activate the spring brake. The spring brake control valve also retains air pressure in the PLST M1076 A1 air reservoir so the PLST M1076 A1 spring brakes can be released by the spring release valve. The spring-brake control valve also

PLST PARKING BRAKES - Continued

prevents compounding of pressures in the brake chamber by relieving the pressure on the spring brake side of the chambers when the spring brakes are set and the service brakes are applied. The PLST M1076 A1 spring brake release valve is located on the right front corner of the trailer. This valve releases the PLST M1076 A1 spring brakes without a prime mover air supply when there is sufficient air reservoir pressure. After the spring brakes have been released, they can be reapplied by actuating the release valve. When air is supplied through the emergency/spring-brake supply line, the spring release valve is overridden and the trailer spring-brakes are released. If there is insufficient air reservoir pressure to release the trailer parking brakes, a cage nut release is provided on each spring chamber to mechanically release the spring brakes.

PLST EMERGENCY BRAKES

Whenever there is a loss of pressure from the vehicle or PLST M1076 A1 air reservoir, the emergency brakes are activated.

PLST MECHANICAL SYSTEM

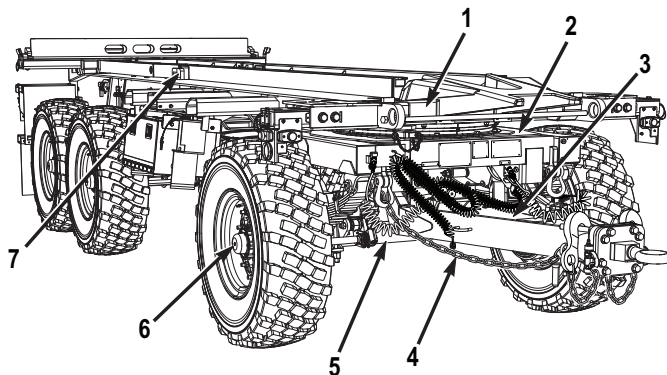


Figure 2. PLST Mechanical System.

The drawbar (Figure 2, Item 3) provides a means to tow, steer, and adjust the length of the trailer. The turntable (Figure 2, Item 2) allows the front axle to turn on axis to provide steering. The main frame (Figure 2, Item 1) provides a mounting place for the rest of the systems. Three spring-mounted axles (Figure 2, Item 5) provide a cushioned ride for loads. Spring-operated parking brakes (Figure 2, Item 6) provide safe parking without air pressure. During operation, service brakes provide braking power. Safety chains (Figure 2, Item 4) on the drawbar attach to the tow vehicle as a safety backup. Load locks (Figure 2, Item 7) provide the means to lock the flatrack to the trailer for transport.

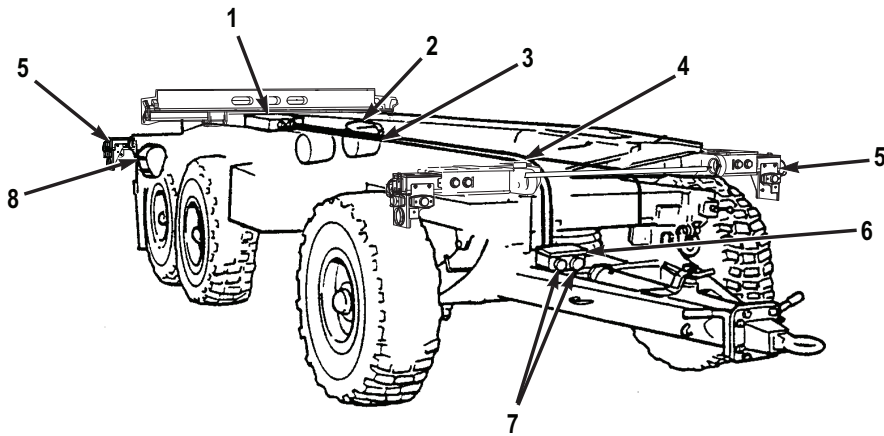
PLST ELECTRICAL SYSTEM

Figure 3. PLST Electrical System.

The intervehicular power hookups (Figure 3, Item 7) (12V and 24V power hookups) allow the operator to hook up the trailer to the towing vehicle in either 12 or 24 volt mode. Wire harnesses (Figure 3, Item 4) route electrical power between electrical components of trailer. The rear combination light (Figure 3, Item 8) provides blackout marker, stop, and signaling capability. The front junction box (Figure 3, Item 6) provides a way of routing electrical harnesses and connecting trailer intervehicular wiring harness to prime the mover. The rear junction box (Figure 3, Item 1) provides a way of routing electrical harnesses to rear of trailer. Front and rear marker lights (Figure 3, Item 5) provide safe side and rear markers for the trailer and allow the operator to observe the trailer during limited visibility. The load-lock sensor (Figure 3, Item 3) sends a signal to the vehicle indicating if load-locks are locked. The load-lock sensor power cable (Figure 3, Item 2) connects the trailer load lock sensor to the vehicle.

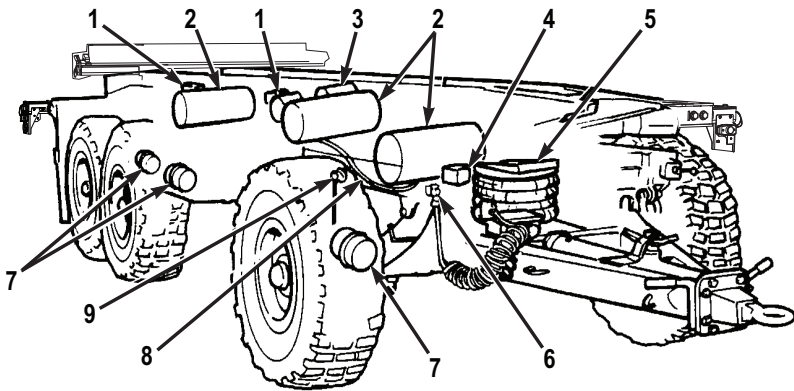
PLST AIR SYSTEM

Figure 4. PLST Air System.

The air reservoirs (Figure 4, Item 2) provide air pressure storage on the trailer. Air lines (Figure 4, Item 8) route air pressure between air components on the trailer. Air hookups (gladhands) (Figure 4, Item 6) provide a way to hook the trailer air system to the vehicle. The drawbar airbag (Figure 4, Item 5) provides assistance to raise or lower the drawbar. The air chambers (Figure 4, Item 3) provide brake activation/deactivation. The load sensing valve (Figure 4, Item 9) regulates braking power according to load. Relay valves (Figure 4, Item 1) provide brake activation/deactivation. The multifunction valve (Figure 4, Item 4) distributes the correct amount of air pressure between components. The brakes (Figure 4, Item 7) provide stopping capability.

END OF WORK PACKAGE

CHAPTER 2

OPERATOR INSTRUCTIONS

OPERATOR MAINTENANCE TURNTABLE CONTROLS

CONTROLS AND INDICATORS INTRODUCTION

This section displays the location and describes the use of Turntable Controls, which are used in the operation of the PLST M1076 A1. Controls and indicators described in this section are the same for all trailers, except where otherwise indicated.

LOCATION AND USE OF CONTROLS AND INDICATORS

Know the location and proper use of every control and indicator before operating the PLST M1076 A1. Separate illustrations with keys are provided for learning about Turntable Controls.

Table 1. Turntable Controls.

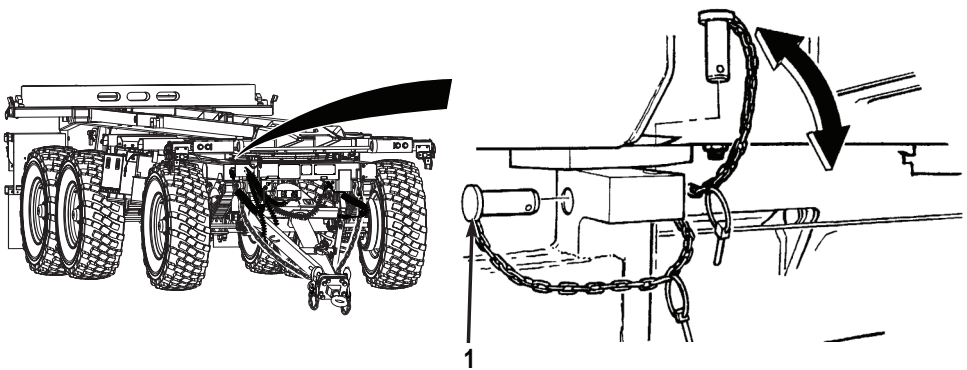


Figure 1. Turntable Controls.

Key	Control/ Indicator	Function
1	Turntable locking pin	Locks the turntable in place for backing operations.

END OF WORK PACKAGE

OPERATOR MAINTENANCE DRAWBAR CONTROLS

CONTROLS AND INDICATORS INTRODUCTION

This section displays the location and describes the use of Drawbar Controls, which are used in the operation of the PLST M1076 A1. Controls and indicators described in this section are the same for all trailers, except where otherwise indicated.

LOCATION AND USE OF CONTROLS AND INDICATORS

Know the location and proper use of every control and indicator before operating the PLST M1076 A1. Separate illustrations with keys are provided for learning about Drawbar Controls.

Table 1. Drawbar Controls.

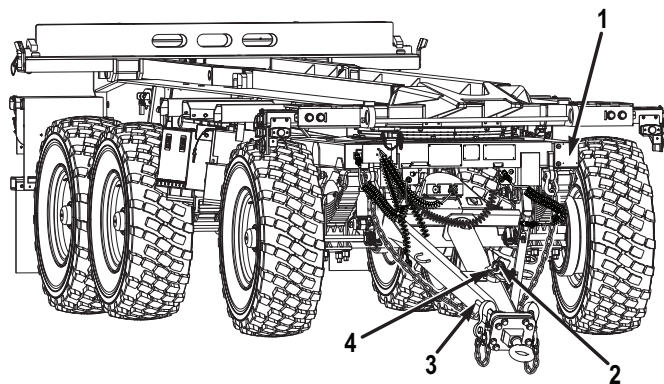


Figure 1. Drawbar Controls.

Key	Control/ Indicator	Function
1	Air Assist Control Lever	Provides an air assist to raise or lower the drawbar.

Table 1. Drawbar Controls - Continued.

Key	Control/ Indicator	Function
2	Drawbar Locking Pin	Allows drawbar to be locked in one of two positions.
3	Drawbar Lifting Handles	Provide means to lift drawbar.
4	Drawbar Locking Pin Latch	Locks locking pin in position.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
EMERGENCY BRAKE CONTROL**

CONTROLS AND INDICATORS INTRODUCTION

This section displays the location and describes the use of Emergency Brake Control which is used in the operation of the PLST M1076 A1. Controls and indicators described in this section are the same for all trailers, except where otherwise indicated.

LOCATION AND USE OF CONTROLS AND INDICATORS

Know the location and proper use of every control and indicator before operating the PLST M1076 A1. Separate illustrations with keys are provided for learning about Emergency Brake Control.

Table 1. Emergency Brake Control.

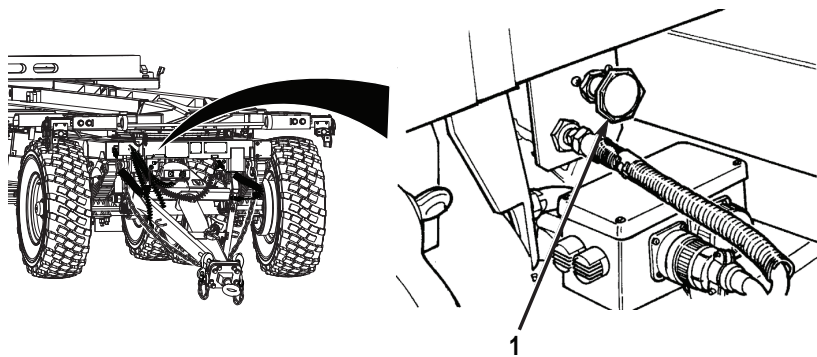


Figure 1. Emergency Brake Control.

Key	Control/ Indicator	Function
1	Emergency/ Parking Brake Control	Applies and releases the trailer emergency/parking brakes when trailer is parked or being loaded or unloaded.

END OF WORK PACKAGE

OPERATOR MAINTENANCE LOAD LOCK CONTROL

CONTROLS AND INDICATORS INTRODUCTION

This section displays the location and describes the use of Load Lock Control which is used in the operation of the PLST M1076 A1. Controls and indicators described in this section are the same for all trailers, except where otherwise indicated.

LOCATION AND USE OF CONTROLS AND INDICATORS

Know the location and proper use of every control and indicator before operating the PLST M1076 A1. Separate illustrations with keys are provided for learning about Load Lock Control.

Table 1. Load Lock Control.

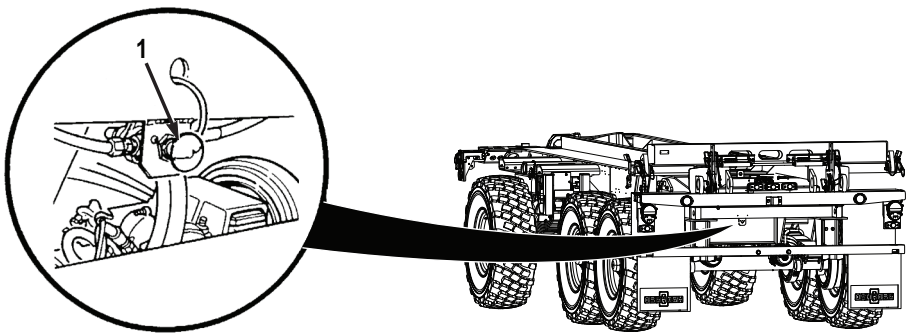


Figure 1. Load Lock Control.

Key	Control/ Indicator	Function
1	Load Lock Control	Pull to lock load, push to unlock load.

END OF WORK PACKAGE

OPERATOR MAINTENANCE LOAD LOCK INDICATOR

CONTROLS AND INDICATORS INTRODUCTION

This section displays the location and describes the use of Load Lock Indicator which is used in the operation of the PLST M1076 A1. Controls and indicators described in this section are the same for all trailers, except where otherwise indicated.

LOCATION AND USE OF CONTROLS AND INDICATORS

Know the location and proper use of every control and indicator before operating the PLST M1076 A1. Separate illustrations with keys are provided for learning about Load Lock Indicator.

Table 1. Load Lock Indicator.

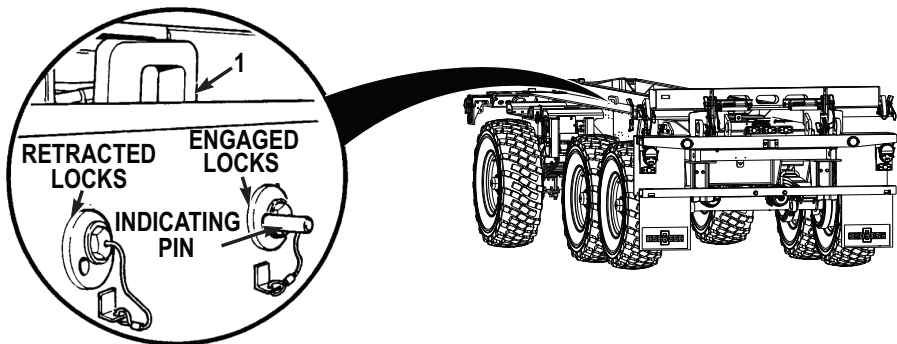


Figure 1. Load Lock Indicator.

Key	Control/ Indicator	Function
1	Load Lock Indicator Pins	Give visual indication of whether the load locks are locked or unlocked. If pins are retracted, the load locks are unlocked. If the pins are extended (visible), the load locks are locked.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
PLS TRAILER INSTRUMENTS**

INITIAL SETUP:

References

TM 9-2320-319-10-1 (WP 0057)

TM 9-2320-364-10 (WP 0057)

PLS TRAILER INSTRUMENTS

The vehicle has two instruments that aid the driver during trailer operations; these are the Air Pressure Gauge and the Load Lock Indicator. For use of these instruments, refer to TM 9-2320-364-10 for PLS Base vehicle and TM 9-2320-319-10-1 for PLS A1 vehicle (WP 0057).

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE TRAILER CONNECT/DISCONNECT

INITIAL SETUP:

References

WP 0011

References (cont.)

WP 0020

WP 0057

TRAILER CONNECT

WARNING

Do not stand between trailer drawbar and vehicle coupler during hook-up procedures to prevent being pinned between vehicle and trailer. Failure to comply may result in injury or death to personnel.

WARNING

Wheels on trailer must be chocked to prevent trailer from moving during hook-up procedures. Failure to comply may result in injury or death to personnel.

NOTE

Align vehicle coupler with drawbar prior to beginning hookup procedures.

1. Chock wheels of trailer (WP 0020).
2. Adjust drawbar (Figure 1, Item 2) if necessary (WP 0011).

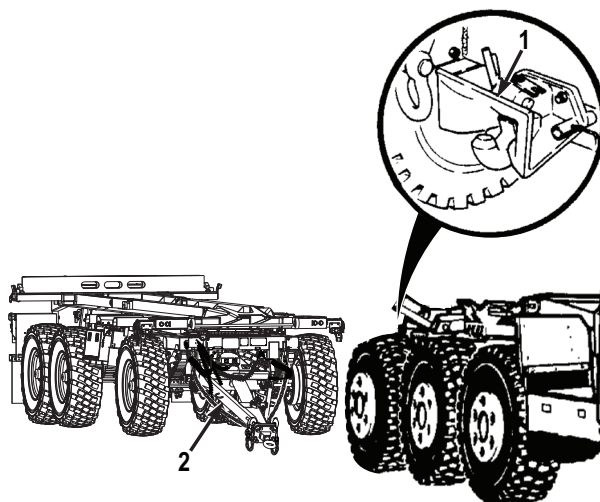
TRAILER CONNECT - Continued

Figure 1. Trailer Connect.

3. Start vehicle and backup vehicle until coupler (Figure 1, Item 1) is approximately 6 in. (152.4 mm) from end of drawbar (Figure 1, Item 2). Refer to vehicle Operator's manual (WP 0057).
4. Apply parking brake and place transmission range selector, to Neutral (N). Shut OFF engine. Refer to vehicle Operator's manual (WP 0057).

NOTE

Rotation locking pin should be in locked (UP) position to prevent coupler rotation during hook-up.

5. Lock rotation locking pin (Figure 2, Item 4) on coupler (Figure 2, Item 2).

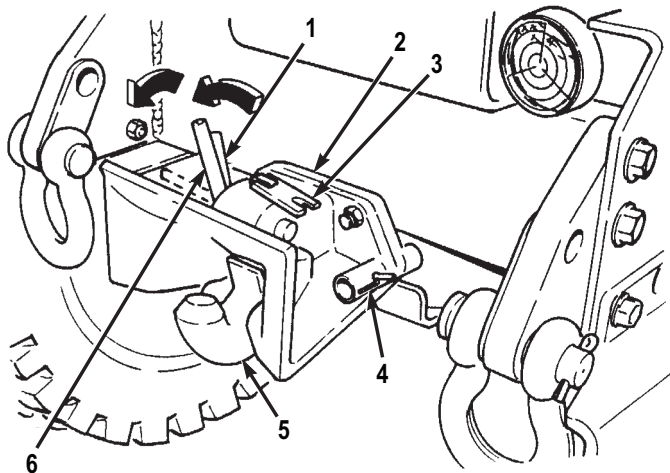
TRAILER CONNECT - Continued

Figure 2. Trailer Connect.

6. Lift up locking gate (Figure 2, Item 3) on coupler (Figure 2, Item 2).

NOTE

Coupler jaw will drop open when Step (7) is performed correctly.

7. Pull locking lever (Figure 2, Item 1) out and pull lever (Figure 2, Item 6) back at the same time to open coupler jaw (Figure 2, Item 5).

NOTE

Air tank No. 1 must be charged with air for air assist lever to work. If it is not charged, remove the charging hose from the trailer stowage box and perform Steps (8) through (19). If air tank is charged, perform Step (20).

8. Remove cover (Figure 3, Item 5) from air coupling (Figure 3, Item 3).

TRAILER CONNECT - Continued

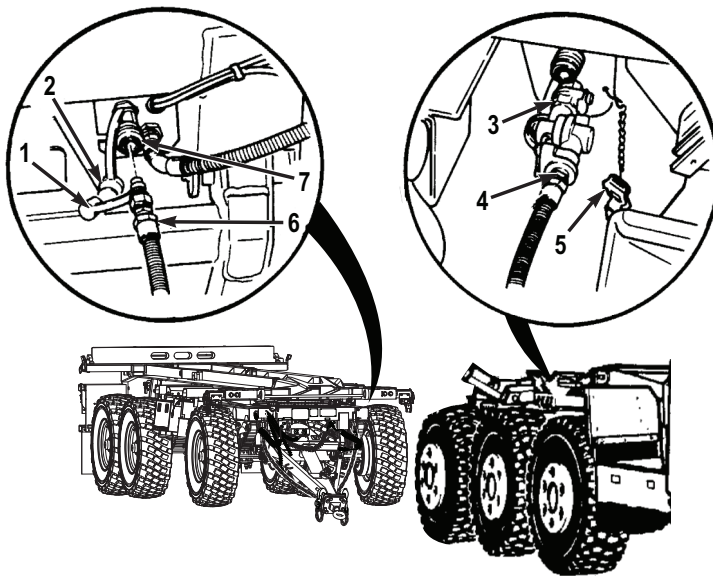


Figure 3. Trailer Connect.

9. Connect charging hose gladhand (Figure 3, Item 4) to air coupling (Figure 3, Item 3).
10. Remove cover (Figure 3, Item 1) from charging hose connector (Figure 3, Item 6).
11. Remove cover (Figure 3, Item 2) from trailer quick disconnect (Figure 3, Item 7).
12. Connect charging hose connector (Figure 3, Item 6) to trailer quick disconnect (Figure 3, Item 7).
13. Start vehicle, push in trailer air supply valve on dash to charge No. 1 air tank. Refer to vehicle Operator's manual (WP 0057).
14. When fully charged (3 to 5 minutes), release trailer air supply valve on dash and shut OFF engine. Refer to vehicle Operator's manual (WP 0057).
15. Disconnect charging hose connector (Figure 4, Item 6) from trailer quick disconnect (Figure 4, Item 7).

TRAILER CONNECT - Continued

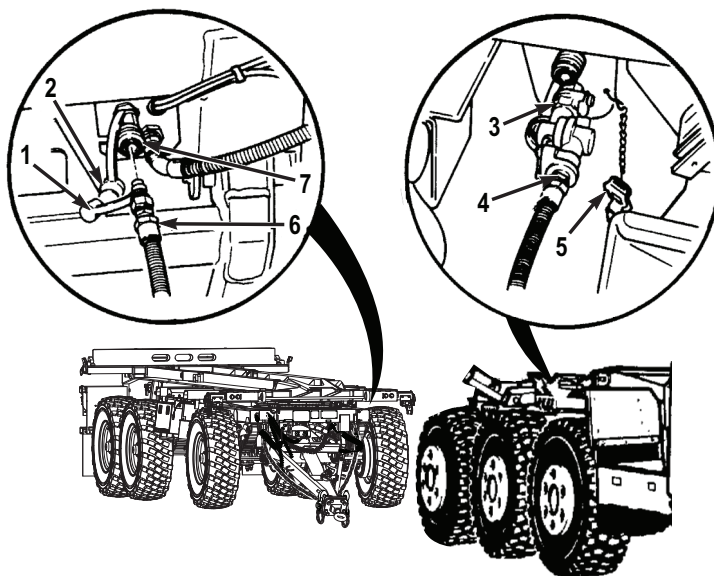


Figure 4. Trailer Connect.

16. Install cover (Figure 4, Item 2) on trailer quick disconnect (Figure 4, Item 7).
17. Install cover (Figure 4, Item 1) on charging hose connector (Figure 4, Item 6).
18. Disconnect charging hose gladhand (Figure 4, Item 4) from air coupling (Figure 4, Item 3) and stow in stowage box.
19. Install cover (Figure 4, Item 5) on air coupling (Figure 4, Item 3).

WARNING

Drawbar weighs 425 lbs (193 kg). Drawbar may raise quickly or fall suddenly to the ground when released from coupler. Do not allow feet or body to get under or above drawbar. Failure to comply may result in injury or death to personnel.

NOTE

Move air assist lever UP to raise drawbar and DOWN to lower drawbar.

TRAILER CONNECT - Continued

20. Move air assist lever (Figure 5, Item 4) on drawbar air assist valve (Figure 5, Item 1) to UP position and raise drawbar (Figure 5, Item 3) to level of coupler (Figure 5, Item 2).

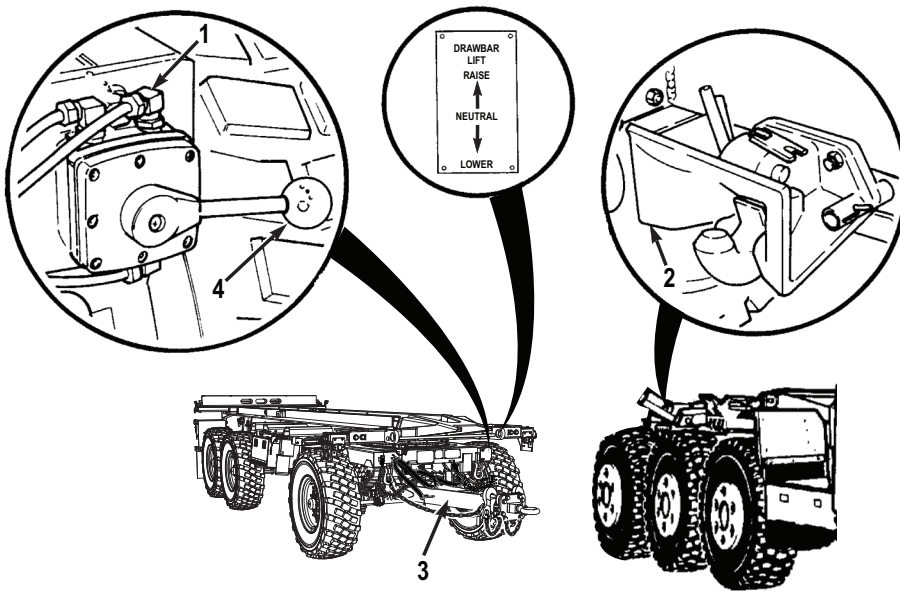


Figure 5. Trailer Connect.

21. Place air assist lever (Figure 5, Item 4) in Neutral position.

WARNING

Do not stand between trailer drawbar and vehicle coupler during hook-up procedures to prevent being pinned between vehicle and trailer. Failure to comply may result in injury or death to personnel.

WARNING

Wheels on trailer must be chocked to prevent trailer from moving during hook-up procedures. Failure to comply may result in injury or death to personnel.

NOTE

Coupler jaw will close when drawbar makes contact.

TRAILER CONNECT - Continued

22. Start vehicle and slowly back up until drawbar (Figure 5, Item 3) makes contact and locks with coupler (Figure 5, Item 2). Refer to vehicle Operator's manual (WP 0057).

NOTE

Use trailer hand brake control to apply trailer brakes while pulling vehicle forward.

23. Pull vehicle forward slightly to verify coupler (Figure 5, Item 2) has latched onto drawbar (Figure 5, Item 3).

NOTE

If trailer fails to hook up, repeat Steps (22) and (23).

24. Shut OFF engine. Refer to vehicle Operator's manual (WP 0057).
25. Release air pressure by moving air assist lever (Figure 6, Item 1) down for 5 seconds.

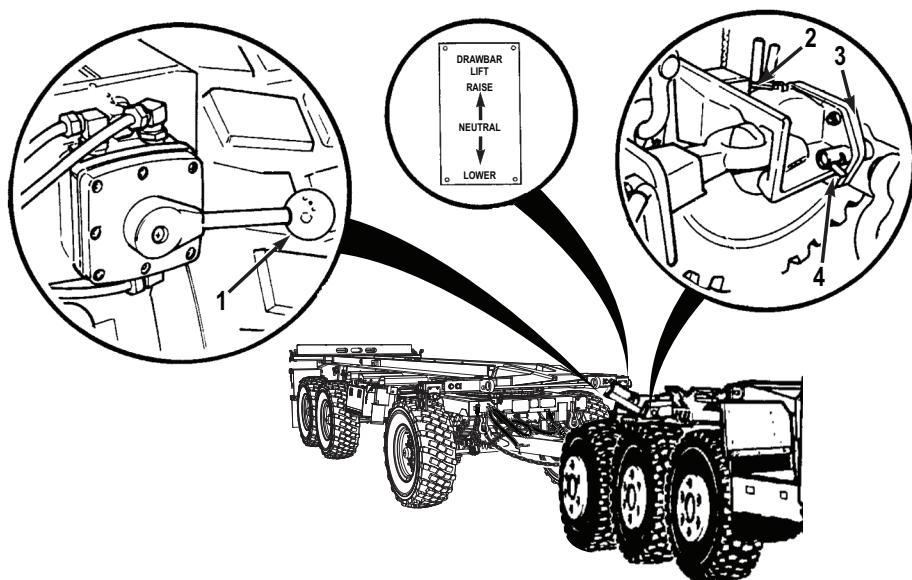


Figure 6. Trailer Connect.

26. Close locking gate (Figure 6, Item 2) on coupler (Figure 6, Item 3).
27. Unlock rotation locking pin (Figure 6, Item 4) on coupler (Figure 6, Item 3).
28. Remove cover (Figure 7, Item 5) from vehicle receptacle (Figure 7, Item 4).

TRAILER CONNECT - Continued

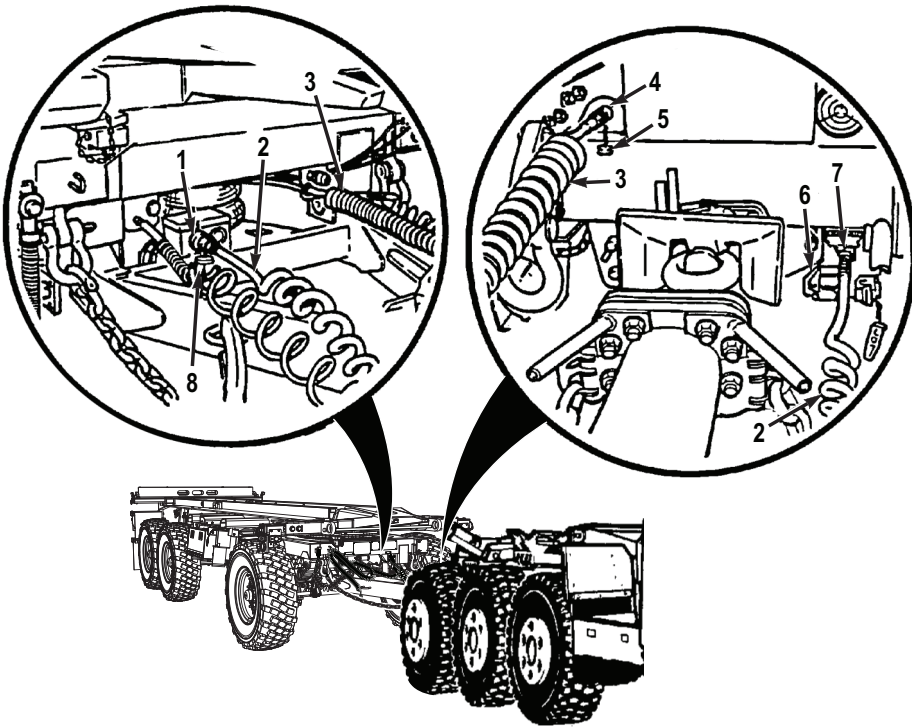


Figure 7. Trailer Connect.

29. Connect load lock status line (Figure 7, Item 3) to vehicle receptacle (Figure 7, Item 4).

WARNING

The 24 volt cable must be used when connecting trailer to PLS M1074A1 or PLS M1075A1. If 24 volt cable is not used there will be no trailer brake lights. Failure to comply may result in injury or death to personnel.

CAUTION

- Both the 12 volt and 24 volt cables must not be connected at the same time. Only one cable can be hooked up during operation or damage to equipment will result.
- Ensure that receptacle latch is engaged on cable or damage to cable may result.

TRAILER CONNECT - Continued**NOTE**

- The 12 volt cable is standard for this trailer (except when being used with PLS M1074A1 and PLS M1075A1). Use the 24 volt system only when the 12 volt cable cannot be used or blackout lights are used.
 - Perform Steps (30) and (31) for 12 volt system only.
 - Cables are located in the stowage box.
30. Remove cover (Figure 7, Item 8) from 7-pin receptacle (Figure 7, Item 1) on trailer and connect 12 volt cable (Figure 7, Item 2) on receptacle (Figure 7, Item 1).
 31. Lift receptacle cover (Figure 7, Item 6) on vehicle and connect 12 volt cable (Figure 7, Item 2) on receptacle (Figure 7, Item 7).

NOTE

Perform Steps (32) and (33) for 24 volt system.

32. Remove cover (Figure 8, Item 5) from 12-pin receptacle (Figure 8, Item 1) on trailer and connect 24 volt cable (Figure 8, Item 4) on receptacle (Figure 8, Item 1).

TRAILER CONNECT - Continued

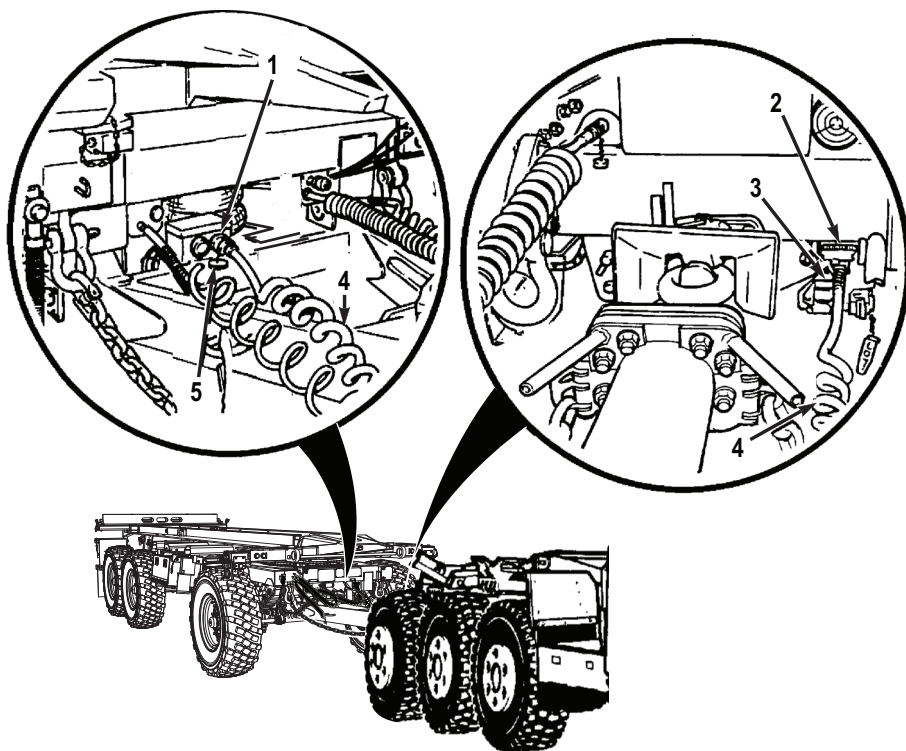


Figure 8. Trailer Connect.

CAUTION

Ensure that receptacle latch is engaged on cable or damage to cable may result.

33. Lift upper right receptacle cover (Figure 8, Item 2) on the vehicle and connect 24 volt cable (Figure 8, Item 4) on receptacle (Figure 8, Item 3).
34. Remove two covers (Figure 9, Item 4) from air couplings (Figure 9, Item 2) and (Figure 9, Item 3).

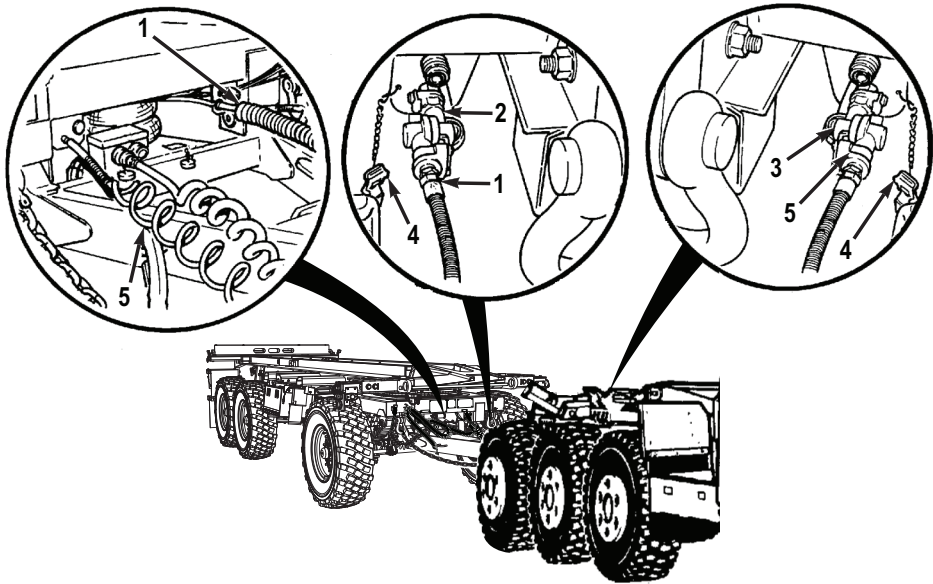
TRAILER CONNECT - Continued

Figure 9. Trailer Connect.

- 35. Install emergency air gladhand (Figure 9, Item 1) to air coupling (Figure 9, Item 2).
- 36. Install service air gladhand (Figure 9, Item 5) to air coupling (Figure 9, Item 3).

NOTE

Safety chains should be already hanging on hooks by the large link.

- 37. Install safety chains (Figure 10, Item 2) on hooks (Figure 10, Item 3) from large links on chains.

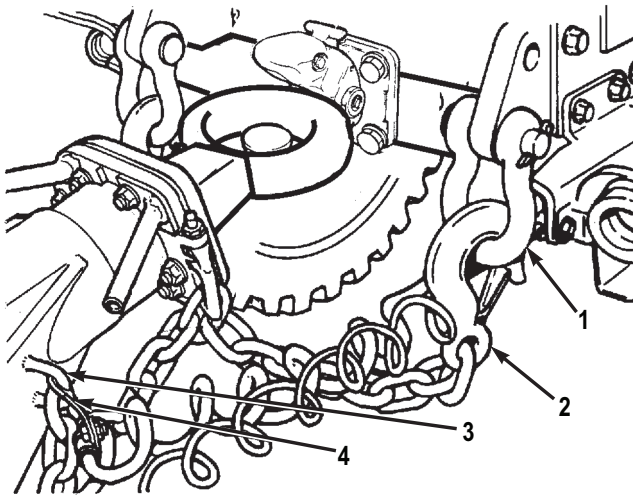
TRAILER CONNECT - Continued

Figure 10. Trailer Connect.

38. Attach electrical cable brackets (Figure 10, Item 4) to hooks (Figure 10, Item 3) on both sides of drawbar.
39. Unhook two safety chains (Figure 10, Item 2) from trailer and attach to vehicle clevises (Figure 10, Item 1).
40. Remove wheel chocks (WP 0020).

END OF TASK**TRAILER DISCONNECT****WARNING**

Do not stand between trailer drawbar and vehicle coupler during hook-up procedures to prevent being pinned between vehicle and trailer. Failure to comply may result in injury or death to personnel.

WARNING

Wheels on trailer must be chocked to prevent trailer from moving during hook-up procedures. Failure to comply may result in injury or death to personnel.

1. Chock wheels of trailer (WP 0020).

TRAILER DISCONNECT - Continued

2. Unhook two safety chains (Figure 11, Item 2) from clevises (Figure 11, Item 3) and attach to trailer.

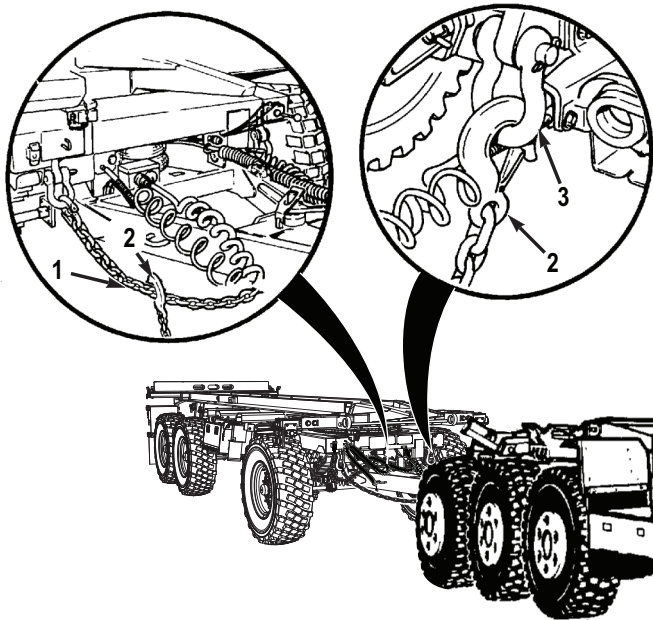


Figure 11. Trailer Disconnect.

3. Hook safety chains (Figure 11, Item 2) to chain links (Figure 11, Item 1).
4. Remove emergency air gladhand (Figure 12, Item 1) from air coupling (Figure 12, Item 3) and stow on stowage coupler (Figure 12, Item 2).

TRAILER DISCONNECT - Continued

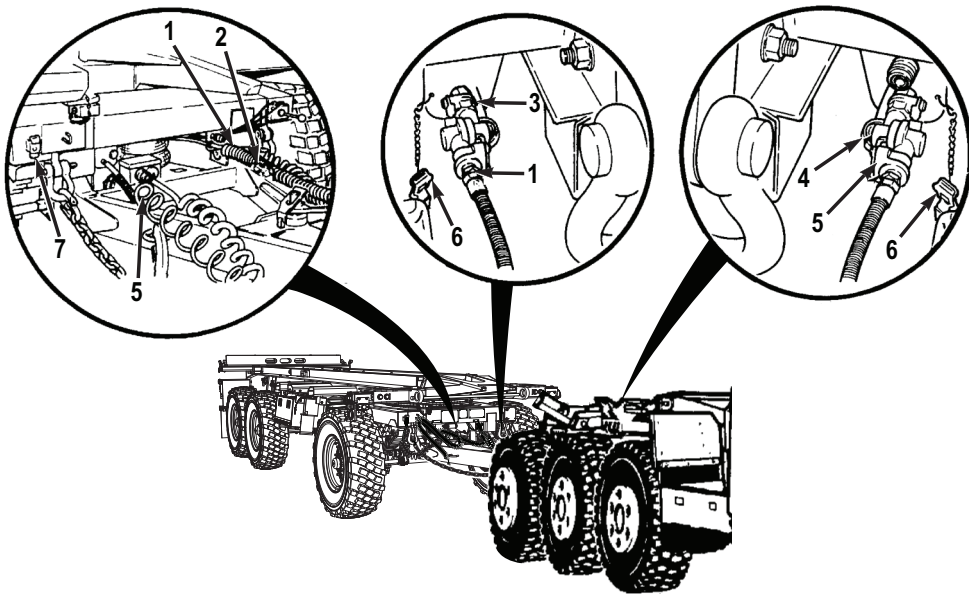


Figure 12. Trailer Disconnect.

5. Remove service air gladhand (Figure 12, Item 5) from air coupling (Figure 12, Item 4) and stow on stowage coupler (Figure 12, Item 7).
6. Install covers (Figure 12, Item 6) on air couplings (Figure 12, Item 3) and (Figure 12, Item 4).

CAUTION

Both the 12 volt (7-pin) and 24 volt (12-pin) cables must not be connected at the same time. Only one cable can be hooked up during operation or damage to equipment will result.

NOTE

- Perform Steps (7) and (8) if the 24 volt (12-pin) cable is installed.
 - Perform Steps (9) and (10) if the 12 volt (7-pin) cable is installed.
7. Remove 24 volt cable (Figure 13, Item 4) from receptacle (Figure 13, Item 3) on vehicle and close receptacle cover (Figure 13, Item 2).

TRAILER DISCONNECT - Continued

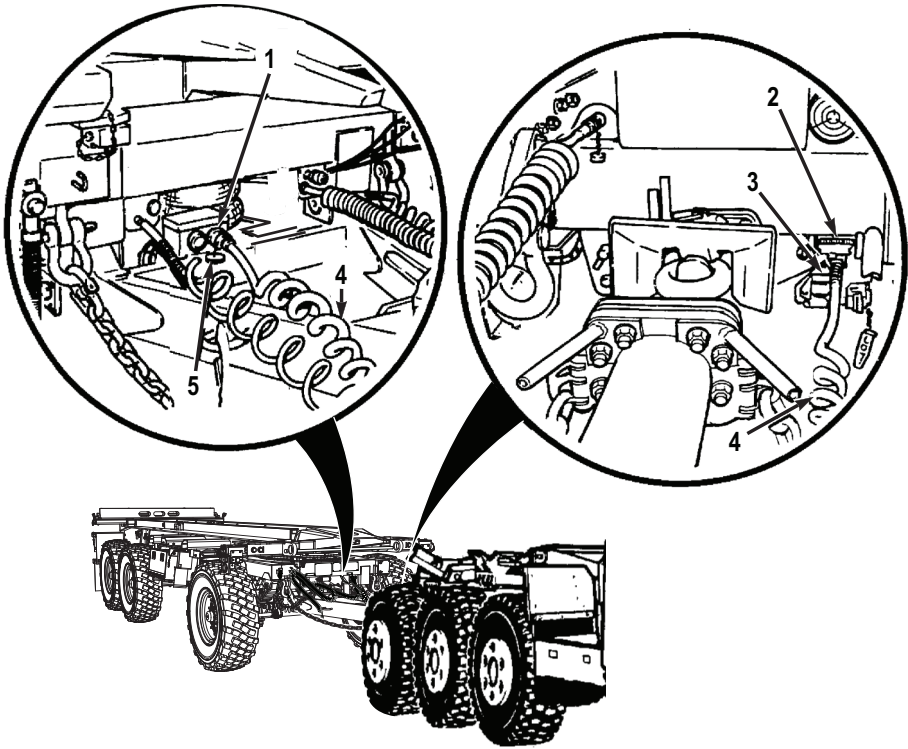


Figure 13. Trailer Disconnect.

8. Remove 24 volt cable (Figure 13, Item 4) on trailer from receptacle (Figure 13, Item 1) and install cover (Figure 13, Item 5) on receptacle and stow cable in trailer stowage box.
9. Remove 12 volt cable (Figure 14, Item 3) on vehicle from receptacle (Figure 14, Item 8) and close receptacle cover (Figure 14, Item 7).

TRAILER DISCONNECT - Continued

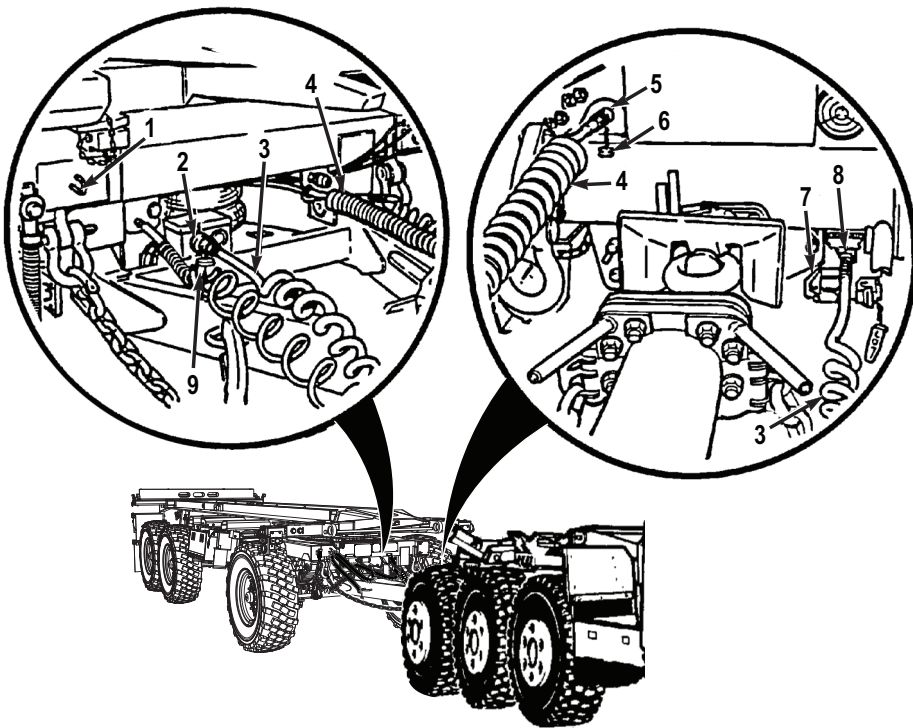


Figure 14. Trailer Disconnect.

10. Remove 12 volt cable (Figure 14, Item 3) on trailer from receptacle (Figure 14, Item 2) and install cover (Figure 14, Item 9) on receptacle and stow cable in trailer stowage box.
11. Remove load lock status line (Figure 14, Item 4) from vehicle receptacle (Figure 14, Item 5) and place on stowage hook (Figure 14, Item 1).
12. Install cover (Figure 14, Item 6) to receptacle (Figure 14, Item 5).
13. Lock rotation locking pin (Figure 15, Item 6) and check coupler (Figure 15, Item 4) to make sure it will not rotate.

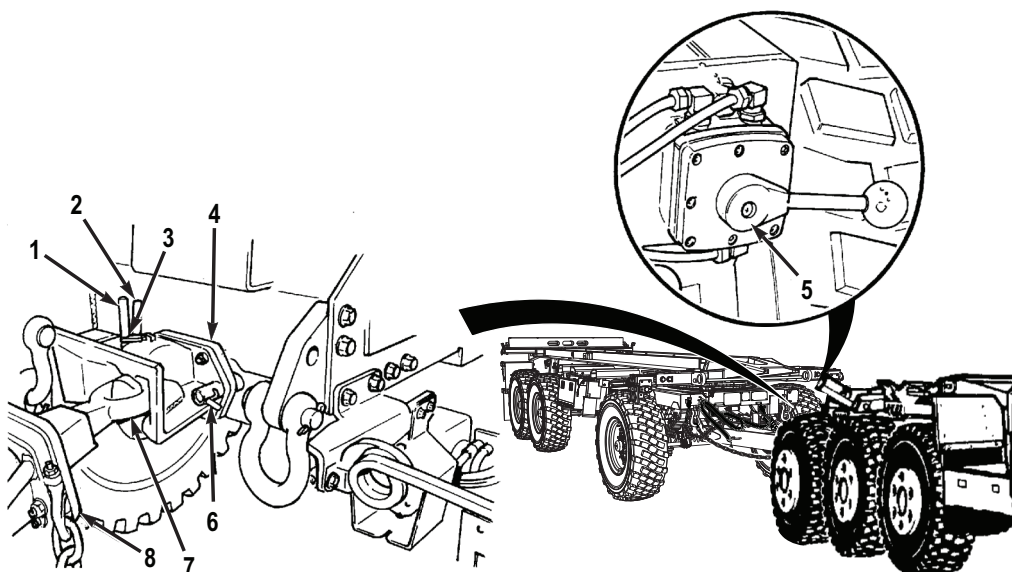
TRAILER DISCONNECT - Continued

Figure 15. Trailer Disconnect.

NOTE

It may be necessary to move vehicle backwards slightly to relieve tension on coupler.

14. Lift up locking gate (Figure 15, Item 3) on coupler (Figure 15, Item 4).
15. Pull locking lever (Figure 15, Item 2) out while pulling lever (Figure 15, Item 1) back at the same time.
16. Release locking lever (Figure 15, Item 2) prior to releasing lever (Figure 15, Item 1) to unlock coupler jaw (Figure 15, Item 7).

WARNING

Drawbar weighs 425 lbs (193 kg). Drawbar may raise quickly or fall suddenly to the ground when released from coupler. Do not allow feet or body to get under or above drawbar. Failure to comply may result in injury or death to personnel.

TRAILER DISCONNECT - Continued**WARNING**

Do not leave drawbar in elevated position after disconnecting from vehicle. Drawbar could fall. Failure to comply may result in injury or death to personnel.

NOTE

Increasing air pressure will raise drawbar, decreasing air pressure will allow drawbar to fall.

17. Use air assist valve (Figure 15, Item 5) to apply air pressure to hold drawbar (Figure 15, Item 8) from falling when released from coupler (Figure 15, Item 4).
18. Start vehicle, release parking brake and slowly pull forward until drawbar (Figure 16, Item 4) releases from coupler (Figure 16, Item 2). Refer to vehicle Operator's manual (WP 0057).

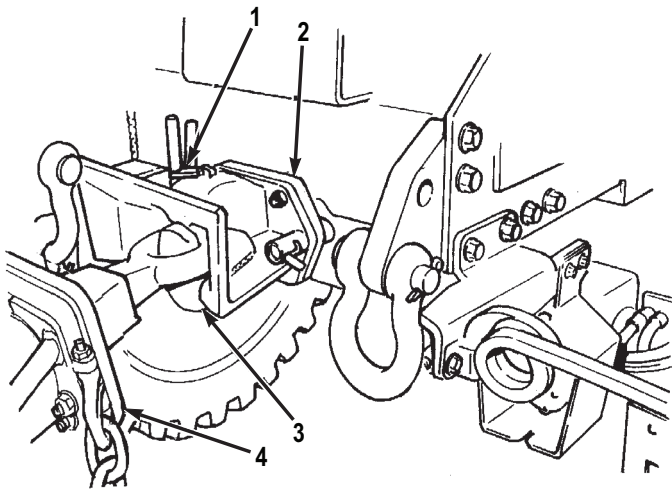


Figure 16. Trailer Disconnect.

19. Apply parking brake and place transmission range selector to Neutral (N). Refer to vehicle Operator's manual (WP 0057).

TRAILER DISCONNECT - Continued

20. Fully lower drawbar.
21. Push up on coupler jaw (Figure 16, Item 3) to close.
22. Close locking gate (Figure 16, Item 1) on coupler (Figure 16, Item 2).

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE DRAWBAR ADJUSTMENT

INITIAL SETUP:

References

WP 0022

Adjustment

NOTE

The drawbar has only two positions:

- Extended Position (Pulled Out): Must be used for all off road operations only.
- Retracted Position (Pushed In): Must be used for all on road operations only. NO ISO containers on vehicle.
- Primary mover (vehicle) may be used to pull out/push in drawbar.

1. If necessary, charge trailer air bag with air (WP 0022).

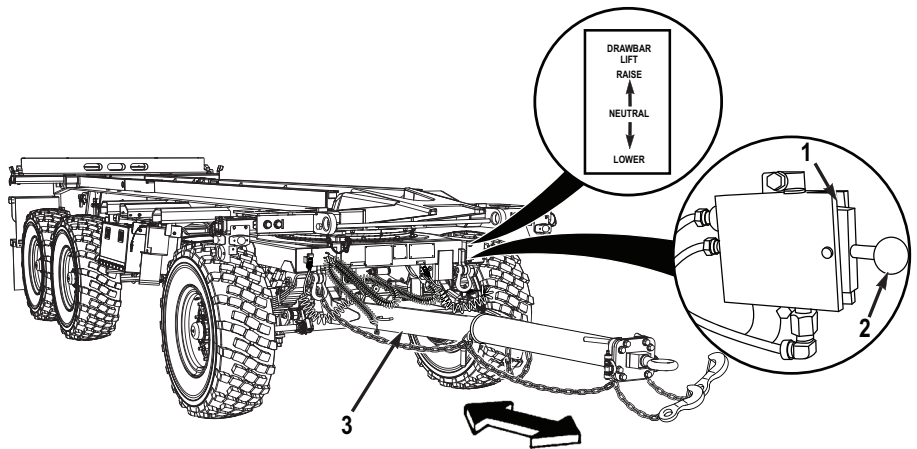


Figure 1. Drawbar Adjustment.

2. Move air assist lever (Figure 1, Item 2) on drawbar air assist valve (Figure 1, Item 1) to LOWER position and lower drawbar structure (Figure 1, Item 3).
3. Place air assist lever (Figure 1, Item 2) in NEUTRAL position.

Adjustment - Continued**WARNING**

Drawbar should be in lowered position when removing locking pin. Failure to comply may result in injury or death to personnel.

4. Lift locking gate (Figure 2, Item 2) and remove locking pin (Figure 2, Item 1) from drawbar structure (Figure 2, Item 3).

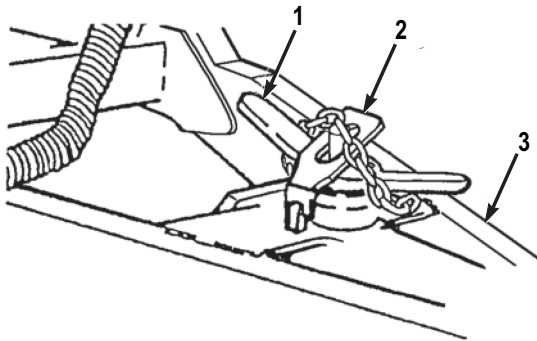


Figure 2. Drawbar Adjustment.

WARNING

Drawbar weighs 425 lbs (193 kg). Drawbar may raise quickly or fall suddenly to the ground when released from coupler. Do not allow feet or body to get under or above drawbar. Failure to comply may result in injury or death to personnel.

5. Move air assist lever (Figure 3, Item 1) to RAISE position and raise drawbar structure (Figure 3, Item 2) to level position.

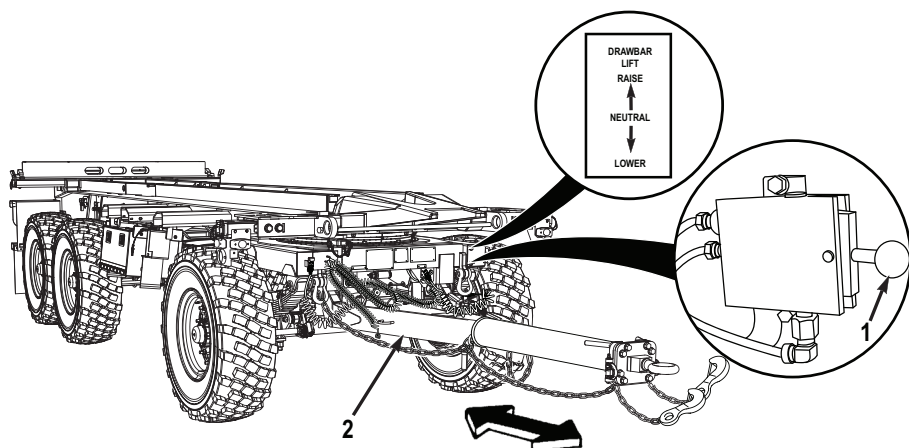
Adjustment - Continued

Figure 3. Drawbar Adjustment.

6. Place air assist lever (Figure 3, Item 1) in NEUTRAL position.

WARNING

Do not stand between trailer drawbar and vehicle coupler during hook-up procedures to prevent being pinned between vehicle and trailer. Failure to comply may result in injury or death to personnel.

WARNING

Wheels on trailer must be chocked to prevent trailer from moving during hook-up procedures. Failure to comply may result in injury or death to personnel.

NOTE

Primary mover (vehicle) may be used to pull out/push in drawbar.

7. Slide tube assembly (Figure 4, Item 5) in or out of drawbar structure (Figure 4, Item 4) to desired position.

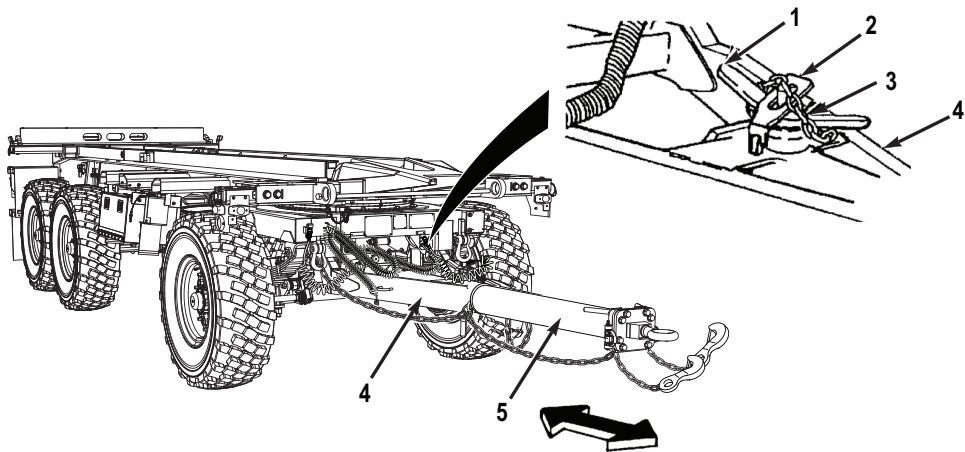
Adjustment - Continued

Figure 4. Drawbar Adjustment.

8. Align holes in tube assembly (Figure 4, Item 5) and drawbar structure (Figure 4, Item 4) and install locking pin (Figure 4, Item 1) into drawbar structure (Figure 4, Item 4).
9. Close locking gate (Figure 4, Item 2) over locking pin (Figure 4, Item 1) on drawbar structure (Figure 4, Item 4).

NOTE

Locking pin chain is used to keep locking gate in LOCKED position during trailer operation.

10. Position locking pin chain (Figure 4, Item 3) over locking gate (Figure 4, Item 2) and around locking pin (Figure 4, Item 1).

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
TRAILER CONNECT/DISCONNECT TO VEHICLE OTHER THAN PLS

INITIAL SETUP:

References

WP 0011

References (cont.)

WP 0020

WP 0022

TRAILER CONNECT

WARNING



Drawbar weighs 425 lbs (193 kg). Drawbar may raise quickly or fall suddenly to the ground when released from coupler. Do not allow feet or body to get under or above drawbar. Failure to comply may result in injury or death to personnel.

WARNING

Do not stand between trailer drawbar and vehicle coupler during hook-up procedures to prevent being pinned between vehicle and trailer. Failure to comply may result in injury or death to personnel.

WARNING

Wheels on trailer must be chocked to prevent trailer from moving during hook-up procedures. Failure to comply may result in injury or death to personnel.

CAUTION

Trailer drawbar must be in extended position when trailer is to be towed by another vehicle other than a PLS vehicle. Failure to extend drawbar may cause severe damage to trailer and towing vehicle.

1. Adjust drawbar to extended position (WP 0011).
2. Chock wheels of trailer (WP 0020).

TRAILER CONNECT - Continued

3. Back up vehicle until coupler (Figure 1, Item 4) is approximately 6.0 in. (152.4 mm) from trailer drawbar (Figure 1, Item 3).

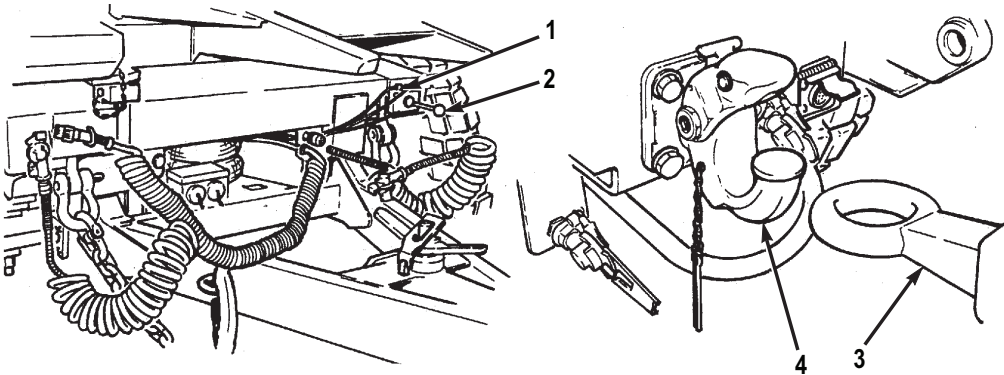


Figure 1. Trailer Connect.

4. Refer to applicable operator manual and set vehicle parking brakes and set transmission to Neutral (N).

NOTE

- Trailer air bag must be charged with air for air assist lever to work.
 - Move air assist lever up to raise drawbar and down to lower drawbar.
 - Retract drawbar prior to lifting drawbar with air assist.
5. If necessary, charge trailer air bag air using trailer BII quick disconnect charging hose (WP 0022) or using standard air line hookup.
 6. Move air assist lever (Figure 1, Item 2) on drawbar air assist valve (Figure 1, Item 1) to UP position and raise drawbar (Figure 1, Item 3) to level of coupler (Figure 1, Item 4).
 7. Place air assist lever (Figure 1, Item 2) in NEUTRAL position.
 8. Place drawbar ring (Figure 2, Item 12) in coupler (Figure 2, Item 13) and push coupler latch (Figure 2, Item 7) down until it is latched in place.

TRAILER CONNECT - Continued

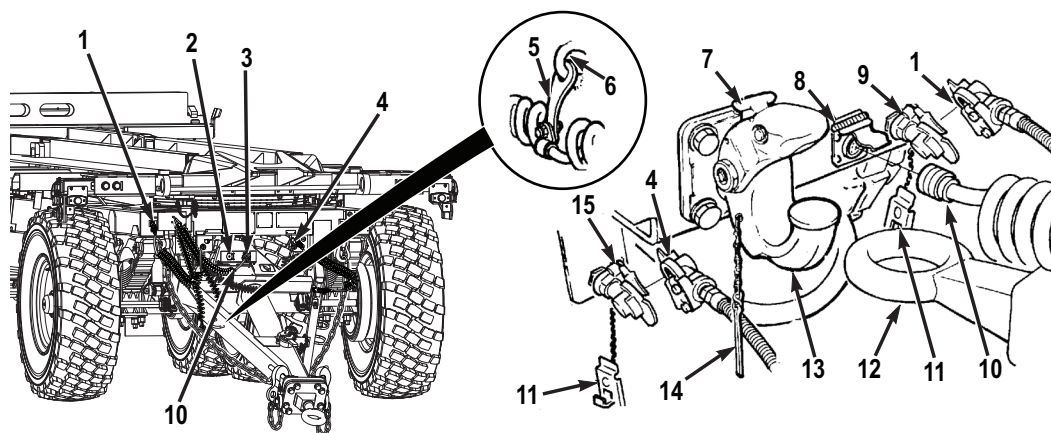


Figure 2. Trailer Connect.

9. Install cotter pin (Figure 2, Item 14) in coupler (Figure 2, Item 13) and slightly bend cotter pin.
10. If applicable, remove covers (Figure 2, Item 11) and connect service air gladhand (Figure 2, Item 1) to service gladhand (Figure 2, Item 9) on vehicle and connect emergency air gladhand (Figure 2, Item 4) to emergency air gladhand (Figure 2, Item 15) on vehicle.

CAUTION

Both the 12 volt (7-pin) and 24 volt (12-pin) cables must not be connected at the same time. Only one cable can be hooked up during operation or damage to equipment will result.

NOTE

- The 12 volt cable is standard for this trailer. Use the 24 volt system cable only when the 12 volt cable cannot be used or blackout lights are used.
 - Cables are located in the stowage box.
11. Remove cover (Figure 2, Item 2) from proper receptacle (Figure 2, Item 3) on trailer and connect cable (Figure 2, Item 10) to receptacle (Figure 2, Item 3).
 12. Connect cable (Figure 2, Item 10) to receptacle (Figure 2, Item 8) on vehicle.

TRAILER CONNECT - Continued

13. Attach electrical cable brackets (Figure 2, Item 5) to hooks (Figure 2, Item 6) on drawbar.

NOTE

Safety chains should be already hanging on hooks by the large link.

14. Install safety chains (Figure 3, Item 2) on hooks (Figure 3, Item 3) from large links on chains.

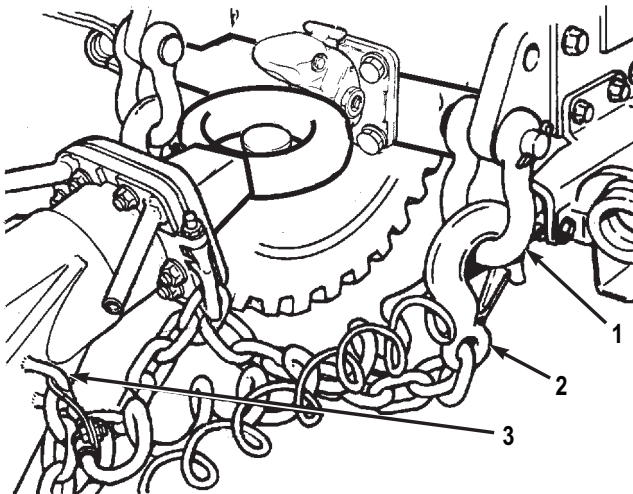


Figure 3. Trailer Connect.

15. Unhook two safety chains (Figure 3, Item 2) from trailer and attach to vehicle clevises (Figure 3, Item 1).
16. Remove wheel chocks.

END OF TASK**TRAILER DISCONNECT**

1. To disconnect trailer from vehicle, chock trailer wheels (WP 0020).

WARNING

Do not stand between trailer drawbar and vehicle coupler during hook-up procedures to prevent being pinned between vehicle and trailer. Failure to comply may result in injury or death to personnel.

TRAILER DISCONNECT - Continued**WARNING**

Wheels on trailer must be chocked to prevent trailer from moving during hook-up procedures. Failure to comply may result in injury or death to personnel.

2. Unhook two safety chains (Figure 4, Item 2) from clevises (Figure 4, Item 1) and attach to trailer.

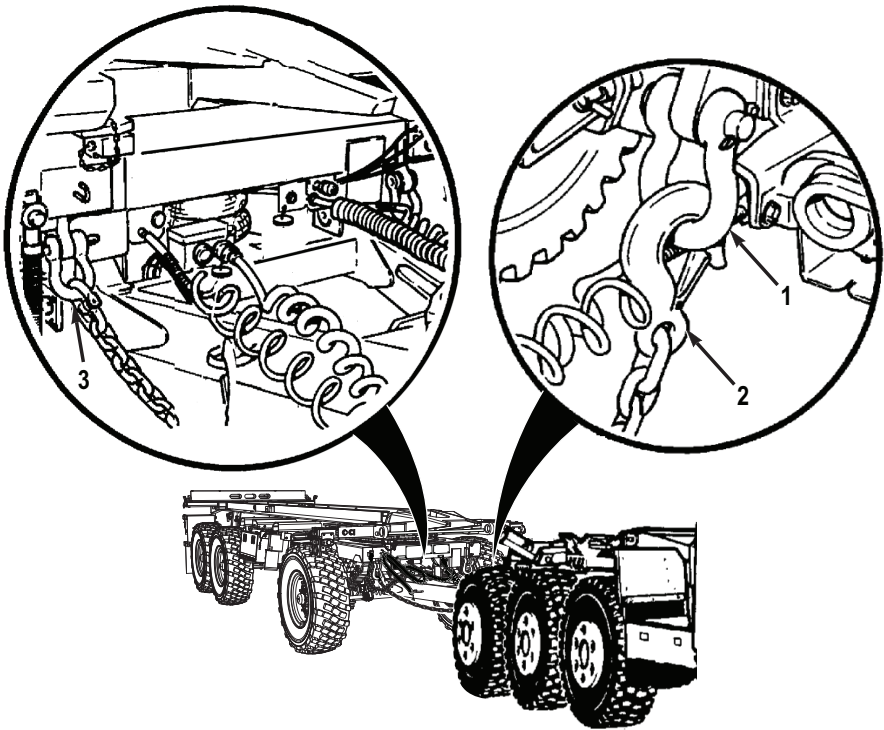


Figure 4. Trailer Disconnect.

3. Hook safety chain (Figure 4, Item 2) to chain links (Figure 4, Item 3).
4. Disconnect cable (Figure 5, Item 1) from receptacle (Figure 5, Item 2) on vehicle.

TRAILER DISCONNECT - Continued

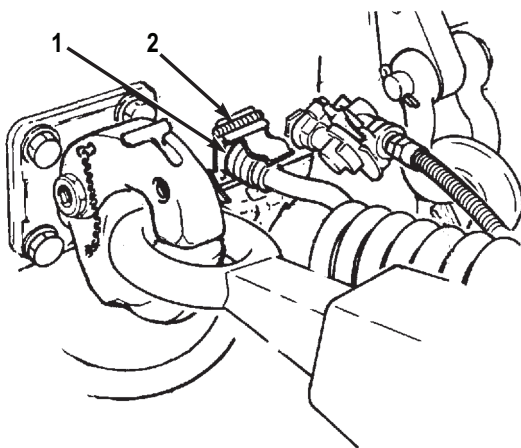


Figure 5. Trailer Disconnect.

5. Disconnect cable (Figure 6, Item 3) from receptacle (Figure 6, Item 2) on trailer and install cover (Figure 6, Item 7).

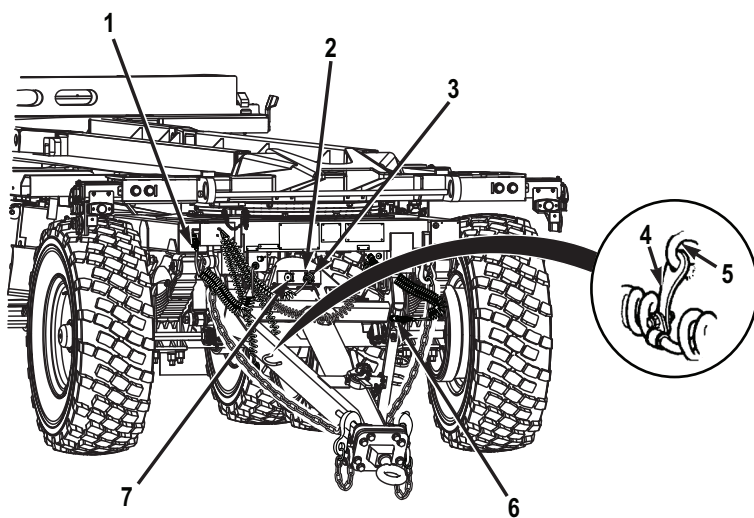


Figure 6. Trailer Disconnect.

6. Remove electrical cable brackets (Figure 6, Item 4) from hooks (Figure 6, Item 5) on drawbar.

TRAILER DISCONNECT - Continued

7. Disconnect emergency air gladhand (Figure 7, Item 5) from emergency air gladhand (Figure 7, Item 4) on vehicle and stow on stowage coupler (Figure 6, Item 1).

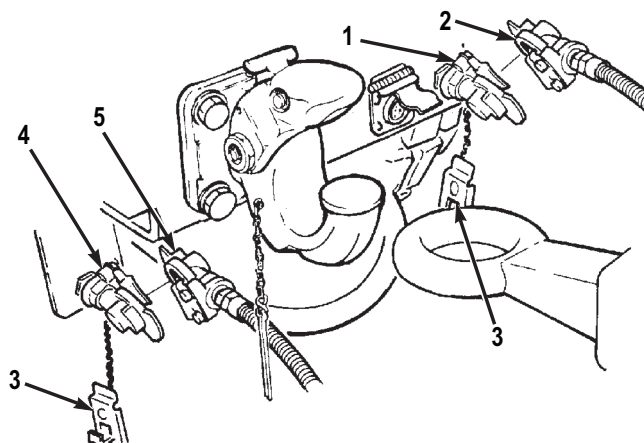


Figure 7. Trailer Disconnect.

8. Disconnect service air gladhand (Figure 7, Item 2) from service air gladhand (Figure 7, Item 1) on vehicle and stow on stowage coupler (Figure 6, Item 6).
9. Replace covers (Figure 7, Item 3) to gladhands (Figure 7, Item 4) and (Figure 7, Item 1).
10. Remove cotter pin (Figure 8, Item 7) from coupler latch (Figure 8, Item 4).

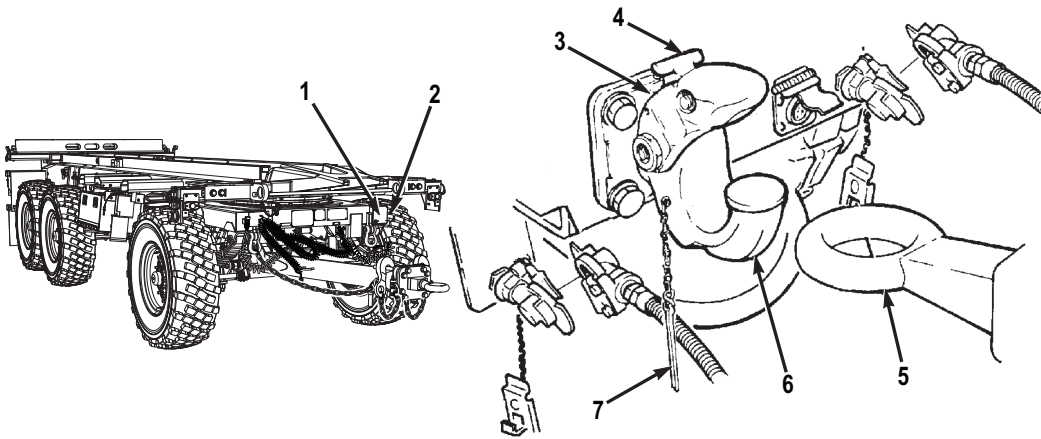
TRAILER DISCONNECT - Continued

Figure 8. Trailer Disconnect.

11. Pull up on coupler latch (Figure 8, Item 4) to open pintle hook (Figure 8, Item 3).

WARNING

Drawbar weighs 425 lbs (193 kg). Drawbar may raise quickly or fall suddenly to the ground when released from coupler. Do not allow feet or body to get under or above drawbar. Failure to comply may result in injury or death to personnel.

NOTE

It may be necessary to move vehicle backwards slightly to relieve tension on drawbar.

12. Move air assist lever (Figure 8, Item 2) on air assist valve (Figure 8, Item 1) to UP position to apply air pressure to raise drawbar (Figure 8, Item 5) up in coupler (Figure 8, Item 6).
13. With drawbar (Figure 8, Item 5) released from pintle hook (Figure 8, Item 3), slowly drive vehicle away from trailer.

TRAILER DISCONNECT - Continued**WARNING**

Do not leave drawbar in elevated position after disconnecting from vehicle. Drawbar could fall. Failure to comply may result in injury or death to personnel.

NOTE

Move air assist valve lever up to raise drawbar or down to lower drawbar.

14. Use air assist valve (Figure 8, Item 1) to lower drawbar (Figure 8, Item 5) to ground.

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE TRAILER BACKING WITH TURNTABLE LOCKED

INITIAL SETUP:

Not Applicable

TRAILER BACKING

CAUTION

Backing the trailer for minor repositioning is permitted without locking the turntable, provided caution is used when backing up. Failure to keep the trailer and vehicle aligned while backing up could result in the trailer jackknifing, possibly causing severe drawbar and vehicle damage.

1. Lift up on locking ring (Figure 1, Item 2) and remove safety pin (Figure 1, Item 3) from pin (Figure 1, Item 1).

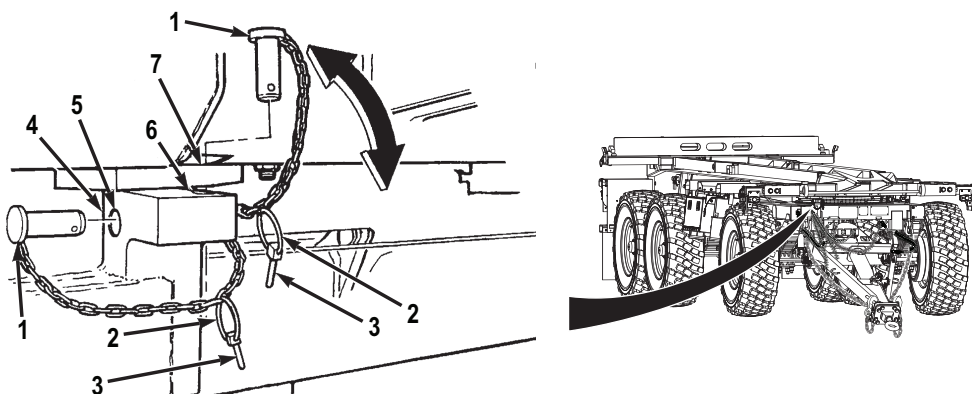


Figure 1. Trailer Backing with Turntable Locked.

2. Remove pin (Figure 1, Item 1) from stowage hole (Figure 1, Item 5).
3. Align turntable locking hole (Figure 1, Item 7) and locking hole (Figure 1, Item 6) in stowage bracket (Figure 1, Item 4) and install pin (Figure 1, Item 1).
4. Install safety pin (Figure 1, Item 3) in pin (Figure 1, Item 1) and engage locking ring (Figure 1, Item 2).

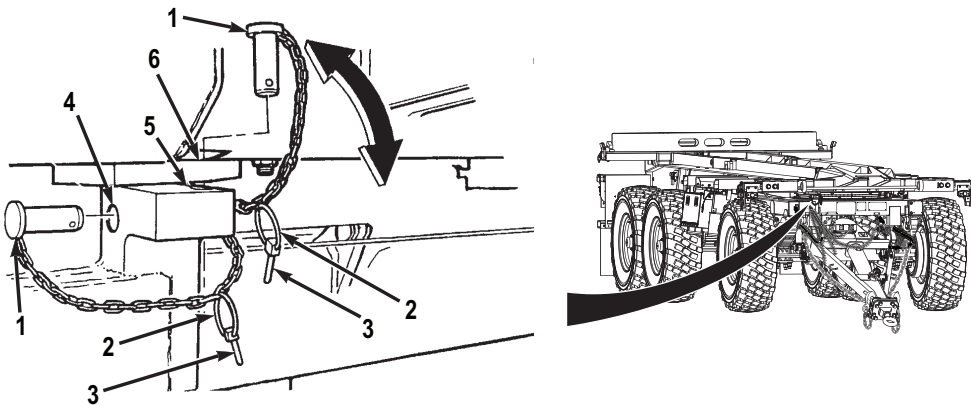
TRAILER BACKING - Continued

Figure 2. Trailer Backing with Turntable Locked.

CAUTION

Trailer turntable must be unlocked after completing backing operations. Failure to unlock turntable will result in a sheared pin or damaged trailer.

NOTE

When backing operations are completed perform Steps (5) through (8).

5. Lift up on locking ring (Figure 2, Item 2) and remove safety pin (Figure 2, Item 3) from pin (Figure 2, Item 1).
6. Remove pin (Figure 2, Item 1) from turntable locking hole (Figure 2, Item 6) and locking hole (Figure 2, Item 5).

CAUTION

Pin must be stowed in stowage hole with safety pin installed or pin can become damaged or lost.

7. Install pin (Figure 2, Item 1) in stowage hole (Figure 2, Item 4).
8. Install safety pin (Figure 2, Item 3) in pin (Figure 2, Item 1) and engage locking ring (Figure 2, Item 2).

END OF TASK**END OF WORK PACKAGE**

**OPERATOR MAINTENANCE
RETRACTION/ENGAGEMENT OF FLATRACK LOCKS (NORMAL)**

INITIAL SETUP:

References

WP 0015

References (cont.)

WP 0020

WP 0057

Retract Flatrack Locks

1. Ensure trailer is uncoupled and ready to be loaded/unloaded.

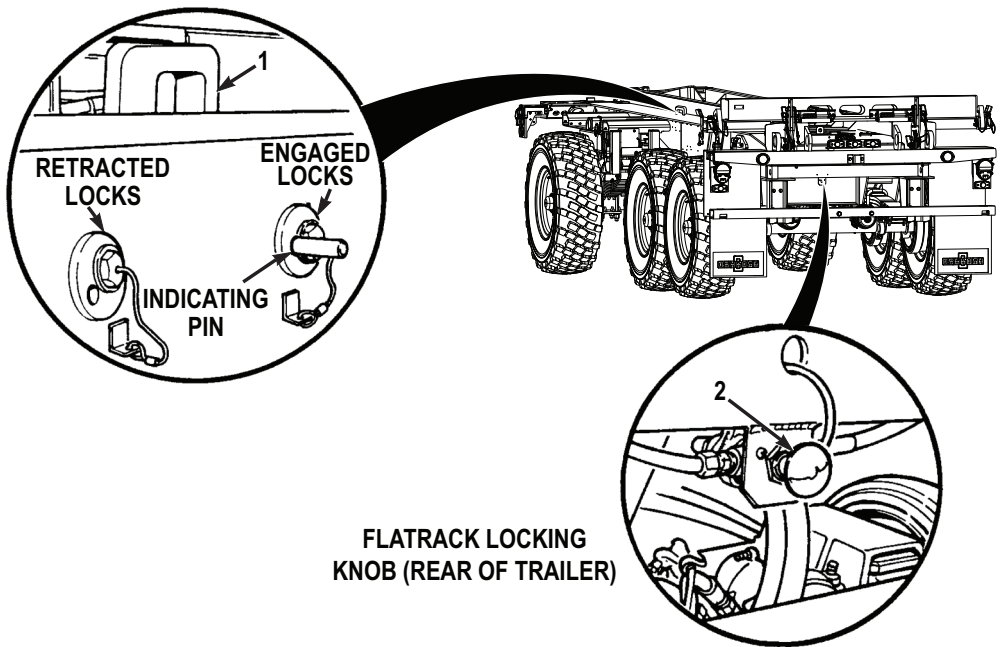


Figure 1. Retract Flatrack Locks.

NOTE

Flatrack locks should only be released prior to loading/unloading procedures.

Retract Flatrack Locks - Continued

2. Push in flatrack locking knob (Figure 1, Item 2) to retract locks (Figure 1, Item 1).

CAUTION

Ensure both flatrack locks are fully retracted or damage to equipment may result.

NOTE

The flatrack locks indicating pins should be retracted IN when the flatrack locks are released. There is one indicating pin on each side of the trailer.

3. Visually check both locks (Figure 2, Item 1) to ensure locks are retracted.

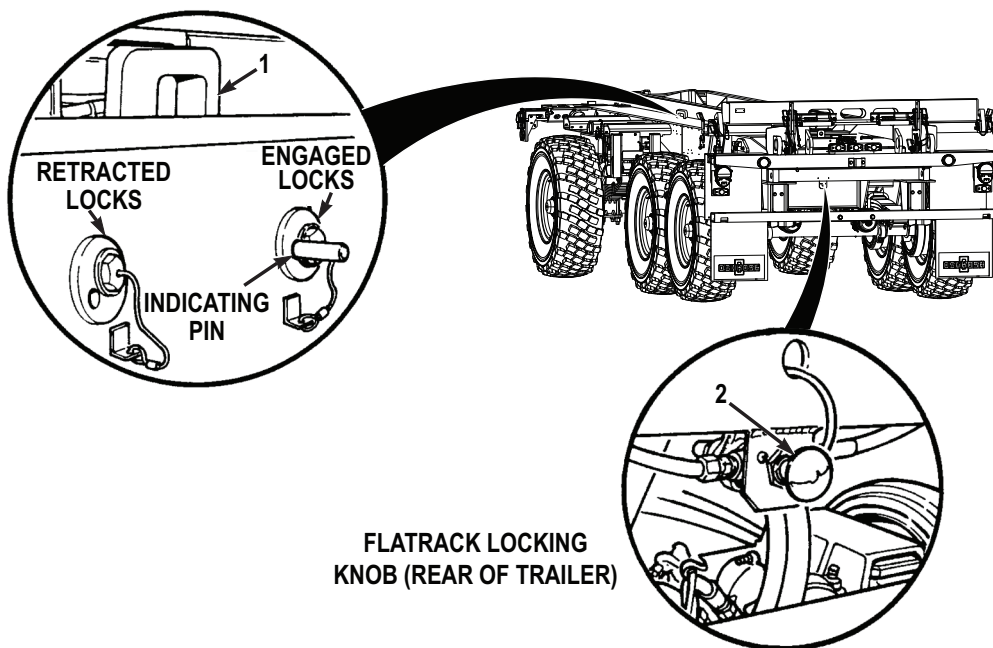


Figure 2. Retract Flatrack Locks.

4. The following procedure should be performed when the flatrack locks on the trailer will not release:
 - a. Chock trailer tires at Axle No. 2 and No. 3 locations. Push flatrack locking knob (Figure 2, Item 2) in on trailer. Verify that the locks (Figure 2, Item 1) have not released (check indicating pins on the left and right side of the trailer).

Retract Flatrack Locks - Continued**WARNING**

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

- b. Back vehicle up to trailer with the LHS hook positioned to make load transfer from vehicle to trailer. Back the vehicle up until the trailer bumper stop is underneath the vehicle bumper stop, pull the vehicle forward approximately 1.0 to 2.0 in. (25.4 to 50.8 mm).
- c. Connect the service gladhand from trailer to the vehicle and charge the trailer air system. Check the load lock indicating pins to see if locks have released and disconnect the service air line. Make sure that the flatrack release button is pushed in. If the load locks have released go to Step (g).

WARNING

Prior to and during any load or unload cycle, all personnel should stay clear of LHS, flatrack, front lift adapter, and container. Failure to comply may result in injury or death to personnel.

- d. Using the Manual Hook Arm Mode, move the joystick to the load position until the weight of the flatrack is off of the front of the trailer and that there is approximately 2.0 to 4.0 in. (50.8 to 101.6 mm) of clearance between the front edge of the flatrack and the trailer deck.
 - e. While holding the vehicle brakes, switch the LHS mode switch to the Manual Main Frame Mode. Move the joystick to the unload position until the trailer can be seen pushing backwards.
 - f. Verify that the locks have released. If the flatrack locks have not released, use the manual tools to release the locks (WP 0015).
 - g. Switch LHS mode switch to the Automatic position and move the joystick to the load position. Offload flatrack from trailer to vehicle.
5. Chock trailer tires (WP 0020).

WARNING

Trailer wheels must be chocked or drawbar connected to vehicle before coupling trailer gladhands to vehicle. Failure to comply may result in injury or death to personnel.

Retract Flatrack Locks - Continued**NOTE**

If locks do not retract, recharge the air system by performing Steps (5) through (11).

6. Couple service and gladhand (Figure 3, Item 1) to vehicle.

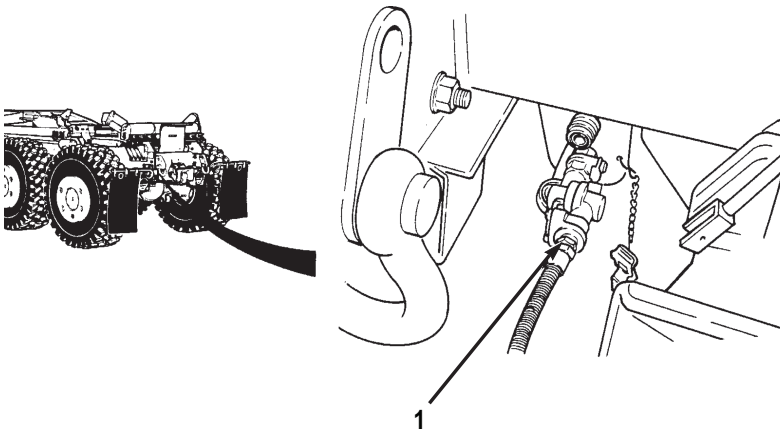


Figure 3. Retract Flatrack Locks.

7. Push in trailer air supply knob in cab of vehicle. Refer to vehicle Operator's manual (WP 0057).
8. With vehicle engine running, allow 3 to 5 minutes for air system to recharge.

NOTE

The flatrack locks indicating pins should be retracted IN when the flatrack locks are released. There is one indicating pin on each side of the trailer.

9. Push in flatrack locking knob (Figure 4, Item 2) to retract locks (Figure 4, Item 1).

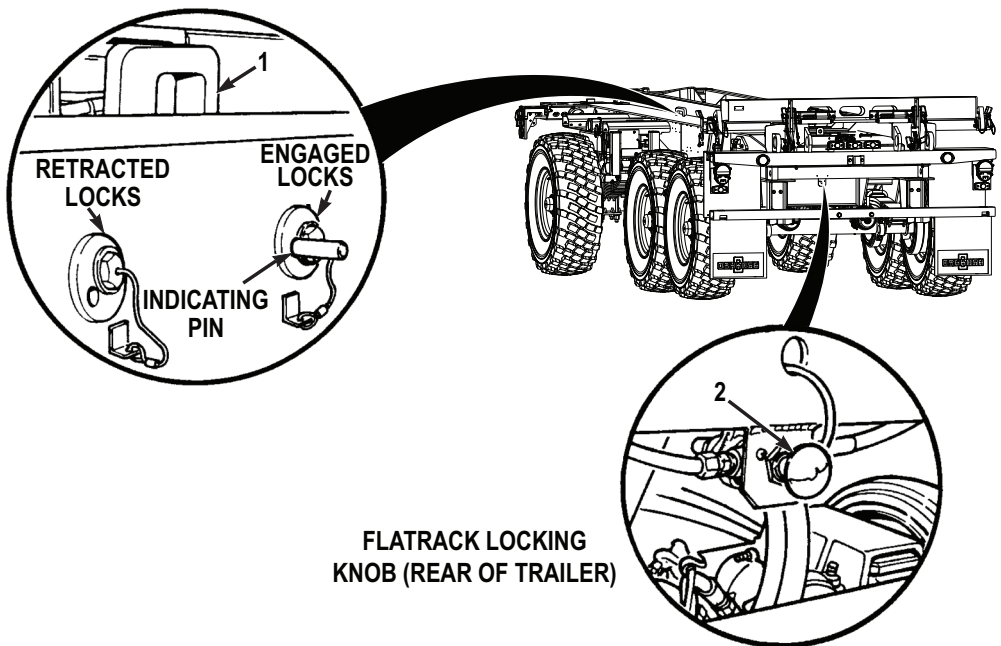
Retract Flatrack Locks - Continued

Figure 4. Retract Flatrack Locks.

10. Check locks (Figure 4, Item 1) to ensure locks are retracted. If locks did not retract, manually retract locks (WP 0015).
11. Pull out trailer air supply knob and uncouple trailer emergency brake line. Refer to vehicle Operator's manual (WP 0057).

END OF TASK**Engagement**

Pull flatrack locking knob (Figure 5, Item 2) to engage flatrack locks (Figure 5, Item 1).

Engagement - Continued

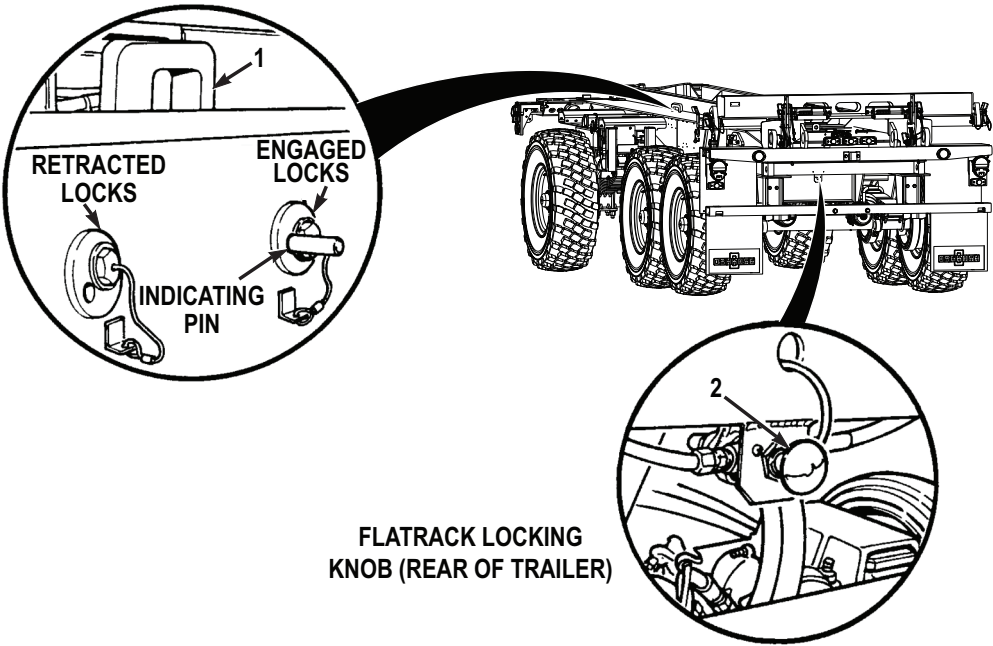


Figure 5. Engagement.

END OF TASK

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
RETRACTION/ENGAGEMENT OF FLATRACK LOCKS (MANUAL)**

INITIAL SETUP:

References

WP 0020

Retract Flatrack Locks

NOTE

- Use manual procedure only if normal procedure will not work.
 - Locks will automatically engage unless air pressure holds them retracted.
 - The flatrack locks indicating pins should be extended OUT when the flatrack locks are locked. There is one indicating pin on each side of the trailer.
1. Ensure trailer is uncoupled and ready to be unloaded.
 2. Chock trailer wheels (WP 0020).
 3. Remove protective plugs (Figure 1, Item 3) from threaded frame holes (Figure 1, Item 2).
 4. Remove unlocking rod from stowage box.

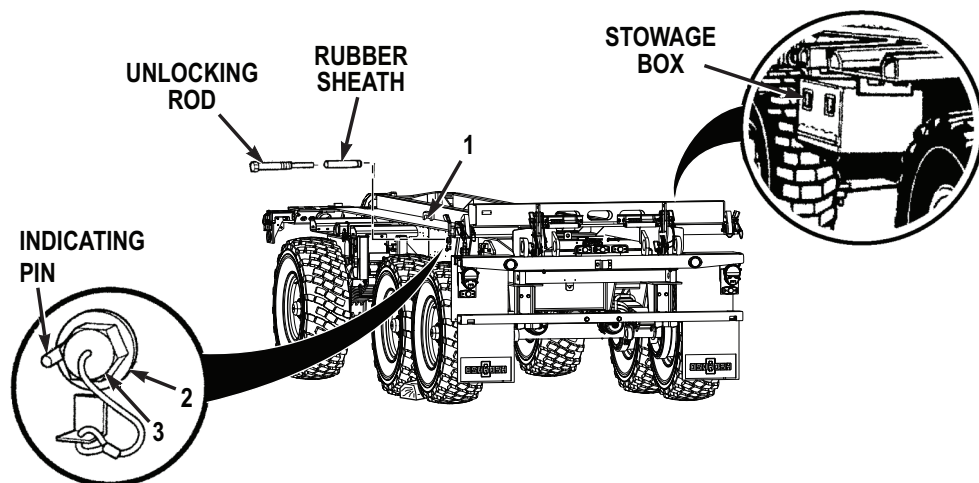
Retract Flatrack Locks - Continued

Figure 1. Retraction/Engagement of Flatrack Locks (Manual).

5. Remove rubber sheath from unlocking rod.
6. Install unlocking rod in threaded frame holes (Figure 1, Item 2) and turn clockwise using the adjustable wrench until flatrack locks (Figure 1, Item 1) are retracted.

END OF TASK**ENGAGEMENT**

1. Unscrew unlocking rod using the adjustable wrench and allow locks (Figure 1, Item 1) to engage flatrack.
2. Install protection plugs (Figure 1, Item 3) in threaded frame holes (Figure 1, Item 2).

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE RELEASE/APPLY PARKING BRAKES (NORMAL)

INITIAL SETUP:

References

WP 0020
WP 0057

Release Parking Brakes

WARNING

Trailer wheels must be chocked or drawbar connected to vehicle before coupling trailer gladhands to vehicle. Failure to comply may result in injury or death to personnel.

NOTE

- The following procedure is used when the trailer is not hooked to the vehicle.
 - Parking brakes are set automatically when gladhands are unhooked.
 - Parking brakes are released when gladhands are connected and trailer air supply knob in cab is pushed in.
 - If trailer parking brakes do not release, perform Steps (2) through (11) and pressurize air system.
1. Chock trailer wheels (WP 0020).
 2. To release trailer parking brakes, push in trailer parking brake knob (Figure 1, Item 1) (located on trailer).

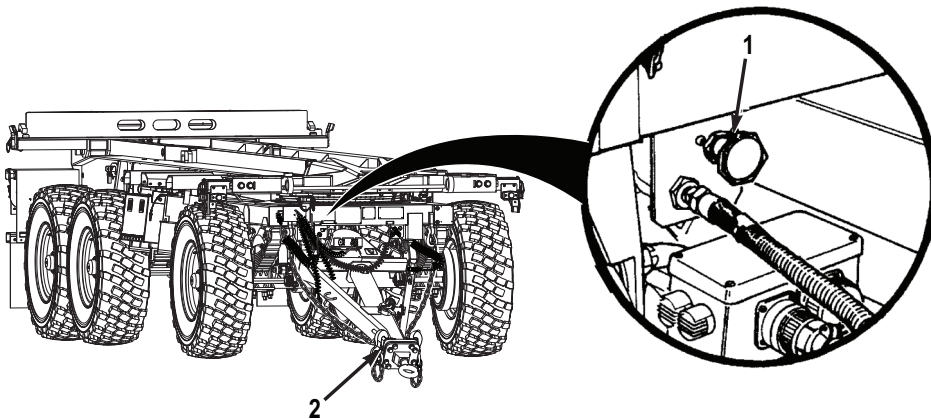
Release Parking Brakes - Continued

Figure 1. Release Parking Brakes.

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

3. Back vehicle close to drawbar (Figure 1, Item 2).

NOTE

When air pressure is supplied through emergency gladhand, trailer brakes will automatically release. When emergency gladhand is disconnected trailer brakes will automatically lock.

4. Connect emergency gladhand (Figure 2, Item 1) and push in trailer air supply valve located in vehicle cab. Refer to vehicle Operator's manual (WP 0057).

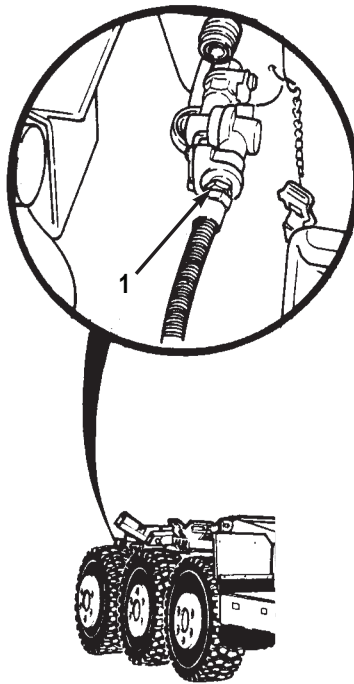
Release Parking Brakes - Continued

Figure 2. Release Parking Brakes.

5. Allow trailer air pressure to build up to operating pressure (3 to 5 minutes).
6. Pull trailer air supply valve out of vehicle. Refer to vehicle Operator's manual (WP 0057).
7. Unhook emergency gladhand (Figure 2, Item 1) from vehicle.
8. Pull vehicle forward. Refer to vehicle Operator's manual (WP 0057).
9. To release trailer parking brake, push in trailer parking brake knob (Figure 3, Item 1) located on trailer.

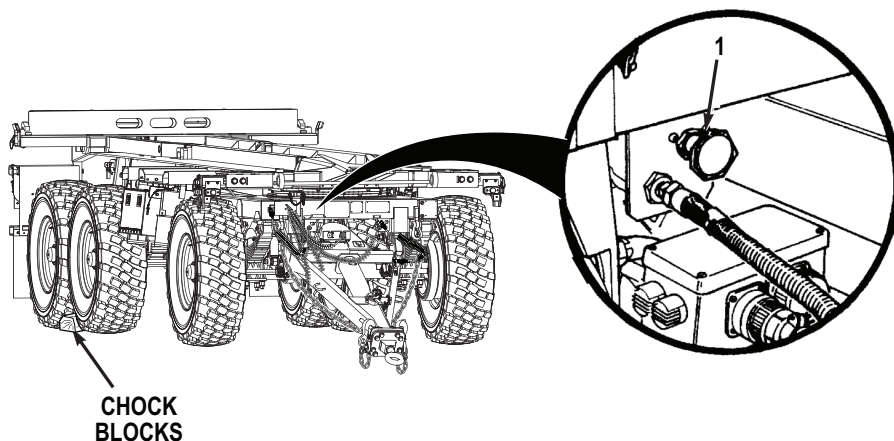
Release Parking Brakes - Continued

Figure 3. Release Parking Brakes.

NOTE

The trailer spring brakes automatically apply when trailer reservoir pressure is low (below 40 psi [276 kPa]). The parking brake button will not stay pushed in when the pressure is low unless the reservoir pressure is at zero pressure.

10. Remove chock blocks from trailer wheels (WP 0020).

END OF TASK**Apply Parking Brakes**

Pull out parking brake knob (Figure 4, Item 1) located on trailer.

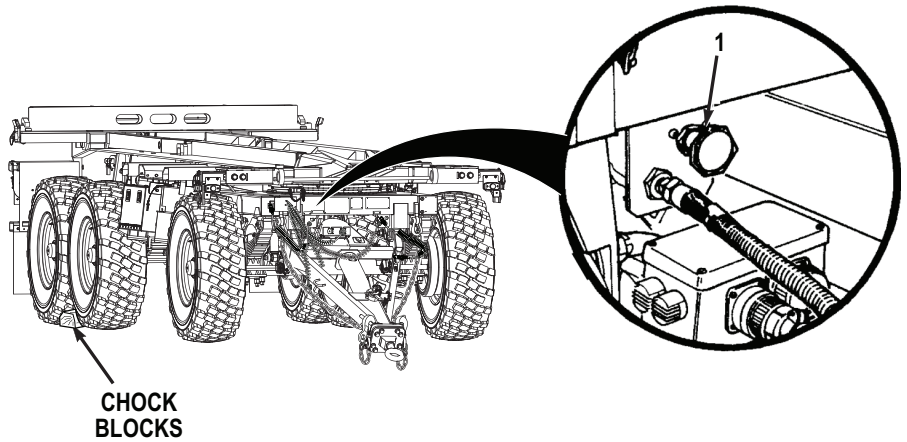
Apply Parking Brakes - Continued

Figure 4. Apply Parking Brakes.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE RELEASE/APPLY PARKING BRAKES (CAGING BRAKES)

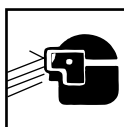
INITIAL SETUP:

References

WP 0020

Release Parking Brake

WARNING



Brake chamber contains a spring that is under great pressure. Never work directly behind brake chamber or attempt to disassemble brake chamber. Failure to comply may result in injury or death to personnel.

WARNING

If top of brake chamber is clogged with mud, sand, or dirt, do not proceed with caging operation unless brake chamber can be cleared. Failure to comply may result in injury or death to personnel.

WARNING

Trailer wheels must be chocked while caging brake chambers. Failure to comply may result in injury or death to personnel.

1. Chock wheels of trailer (WP 0020).
2. Remove nut (Figure 1, Item 1) and washer (Figure 1, Item 2) from caging bolt (Figure 1, Item 3) and remove caging bolt.

Release Parking Brake - Continued

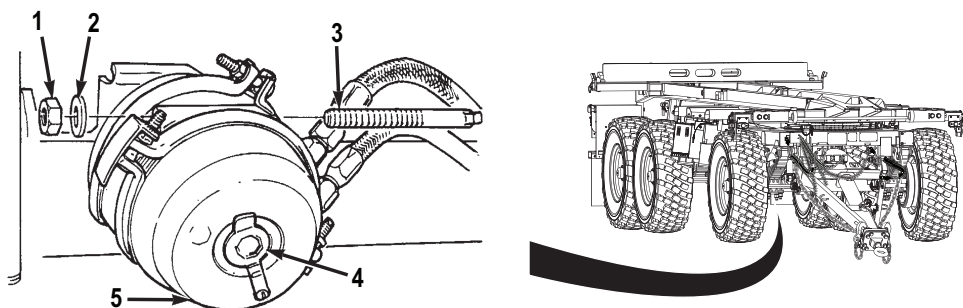


Figure 1. Release Parking Brake.

3. Remove protective cap (Figure 1, Item 4) on rear portion of brake chamber (Figure 1, Item 5).

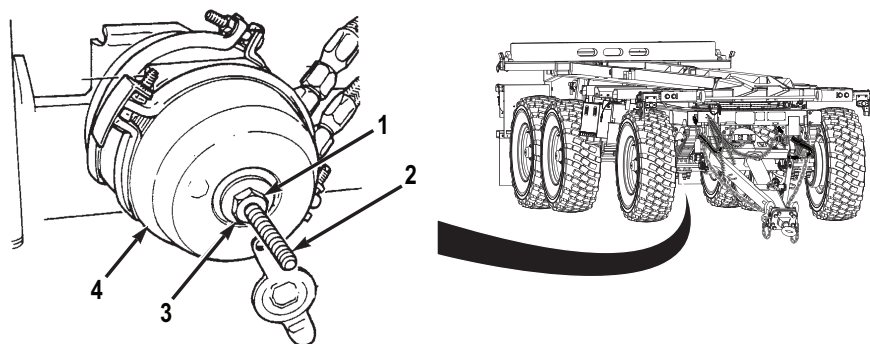


Figure 2. Release Parking Brake.

4. Insert T-end of caging bolt (Figure 2, Item 2) into hole on rear of brake chamber (Figure 2, Item 4).
5. Rotate caging bolt (Figure 2, Item 2) to the left 1/4 turn until it stops.

CAUTION

Tighten until spring is fully compressed. Do not overtighten spring or damage to equipment may result.

Release Parking Brake - Continued**NOTE**

- If caging bolt cannot be pulled directly out, it is properly inserted.
 - Spring is fully compressed when caging bolt is sticking out approximately 3.0 in. (76.2 mm).
6. Install nut (Figure 2, Item 1) and washer (Figure 2, Item 3) on caging bolt (Figure 2, Item 2). Tighten nut (Figure 2, Item 1) until spring is fully compressed.
 7. Repeat Steps (2) through (5) for the other brake chambers.

WARNING

Trailer must be connected to vehicle with parking brakes set before removing chock blocks or trailer may move uncontrolled. Failure to comply may result in injury or death to personnel.

8. Remove chock blocks from trailer wheels (WP 0020).

END OF TASK**Apply Parking Brakes****WARNING**

Trailer wheels must be chocked while caging brake chambers. Failure to comply may result in injury or death to personnel.

1. Chock wheels of trailer (WP 0020).

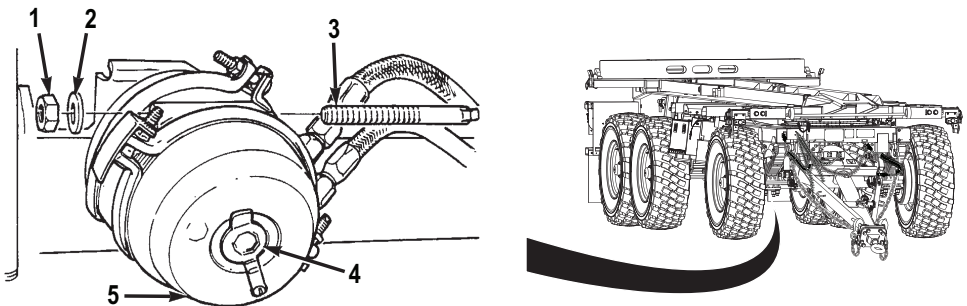


Figure 3. Apply Parking Brake.

Apply Parking Brakes - Continued

2. Remove nuts (Figure 3, Item 1) and washers (Figure 3, Item 2) from caging bolts (Figure 3, Item 3) and brake chambers (Figure 3, Item 5).
3. Remove caging bolts (Figure 3, Item 3) from brake chambers (Figure 3, Item 5).
4. Install protective caps (Figure 3, Item 4) on rear of brake chambers (Figure 3, Item 5).
5. Install caging bolts (Figure 3, Item 3) in storage position and secure with washers (Figure 3, Item 2) and nuts (Figure 3, Item 1).

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE PREPARATION FOR LOADING FLATRACK

INITIAL SETUP:

References

WP 0010
WP 0015
WP 0020
WP 0022
WP 0057

Equipment Condition

Cart in flatrack mode. (WP 0003)
Cart in bumper mode when loading
EMM concrete mixer or EMM
dump body. (WP 0003)

Preparation For Loading

WARNING

Trailer wheels must be chocked prior to loading the flatrack. Failure to comply may result in injury or death to personnel.

CAUTION

- Ensure trailer drawbar is down against the ground or damage to equipment may result.
 - Ensure that air lines and cables are properly stowed or damage to equipment may result.
 - Both trailer bumper points must be under the vehicle bumper stop flange and at least one of the bumper points must contact the bumper stop. The trailer bumper point not contacting the vehicle bumper stop cannot exceed 0.5 in. (12.7 mm) or flatrack will miss main rail guides and equipment damage may result.
1. Chock trailer wheels (WP 0020) and lower drawbar (Figure 1, Item 4).

Preparation For Loading - Continued

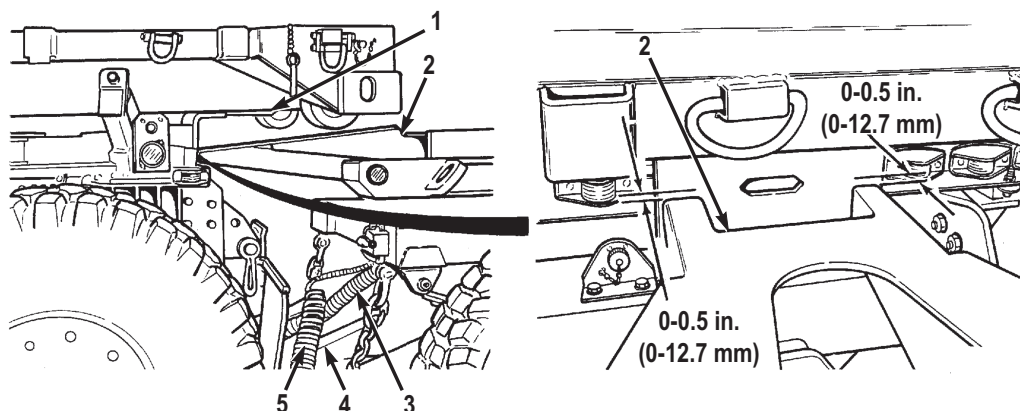


Figure 1. Preparation for Loading.

2. Remove and stow air lines (Figure 1, Item 5) and electrical cables (Figure 1, Item 3) (WP 0010).
3. Back up vehicle so that trailer bumper (Figure 1, Item 2) is under flange of bumper stop (Figure 1, Item 1).
4. Push in on knob (Figure 2, Item 2) and retract flatrack locks (Figure 2, Item 1).

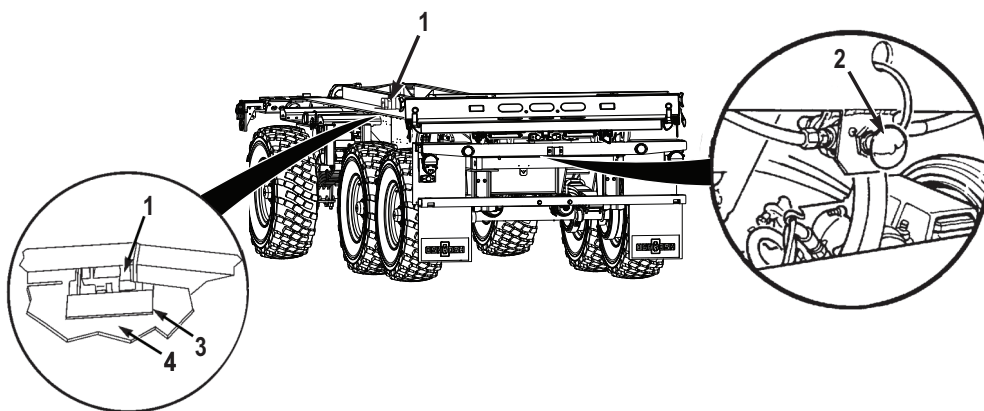


Figure 2. Preparation for Loading.

CAUTION

Ensure surface plates are positioned towards outside edge of cut-outs or damage to equipment may result.

Preparation For Loading - Continued**NOTE**

- When loading flatrack without rollers, perform Steps (a) and (b).
 - Ensure surface plates are returned to stowage after flatrack has been unloaded from trailer.
- a. Remove two surface plates (Figure 2, Item 3) from stowage box.
 - b. Position two surface plates (Figure 2, Item 3) on trailer (Figure 2, Item 4) in flatrack locks (Figure 2, Item 1) opening.

NOTE

There must be sufficient air pressure in trailer air system to retract flatrack locks. If not, charge the air system (WP 0022). If air system cannot retract flatrack locks, manually retract flatrack locks (WP 0015).

5. As flatrack is loaded, inspect and verify trailer guides (Figure 3, Item 1) are lined up between flatrack main rails (Figure 3, Item 2).

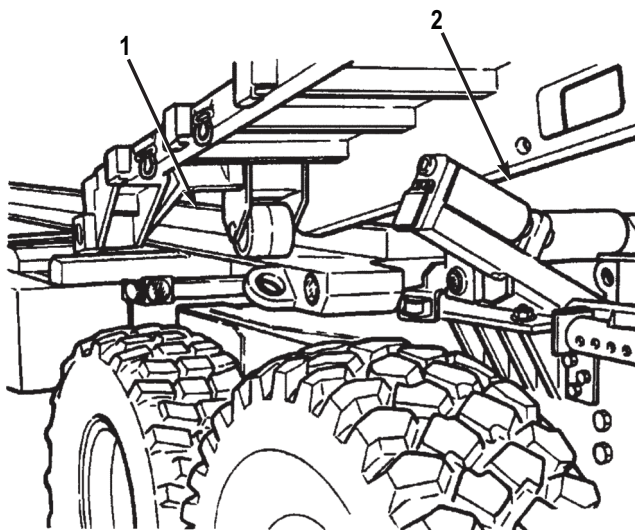


Figure 3. Preparation for Loading.

6. Refer to vehicle Operator's manual (WP 0057) for flatrack loading procedures.
7. When flatrack is completely loaded, make certain that rear rollers (Figure 4, Item 3) have contacted rear trailer stops (Figure 4, Item 1).

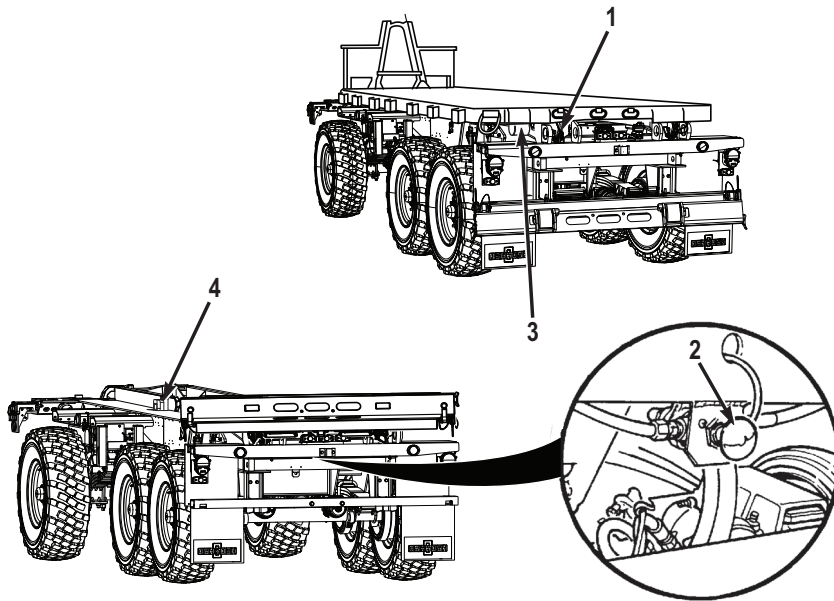
Preparation For Loading - Continued

Figure 4. Preparation for Loading.

8. Pull out knob (Figure 4, Item 2) and lock load locks (Figure 4, Item 4). Ensure load lock indicator pins are OUT.
9. Refer to trailer hookup procedures (WP 0010).

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE FIRE EXTINGUISHER OPERATION

INITIAL SETUP:

Tools and Special Tools

Extinguisher, Fire (WP 0058, Table 2,
Item 5)

Operation

1. Pull up clamp (Figure 1, Item 1) and open strap (Figure 1, Item 4).

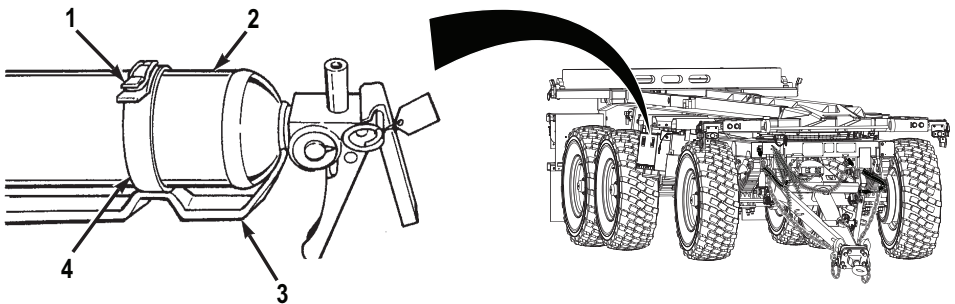


Figure 1. Fire Extinguisher Operation.

2. Pull fire extinguisher (Figure 1, Item 2) straight out and off bracket (Figure 1, Item 3).
3. Hold fire extinguisher (Figure 2, Item 4) upright and pull safety pin (Figure 2, Item 3) to break plastic tie (Figure 2, Item 1).

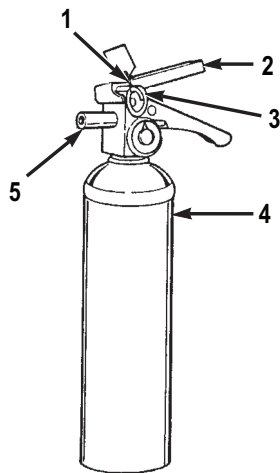
Operation - Continued

Figure 2. Fire Extinguisher Operation.

4. Point nozzle (Figure 2, Item 5) at base of fire.
5. Press down on stop lever (Figure 2, Item 2) and spray discharge in a side-to-side motion at base of fire.
6. Replace fire extinguisher (Figure 2, Item 4) after use.
7. Put neck (Figure 3, Item 4) of fire extinguisher (Figure 3, Item 3) on bracket (Figure 3, Item 5).

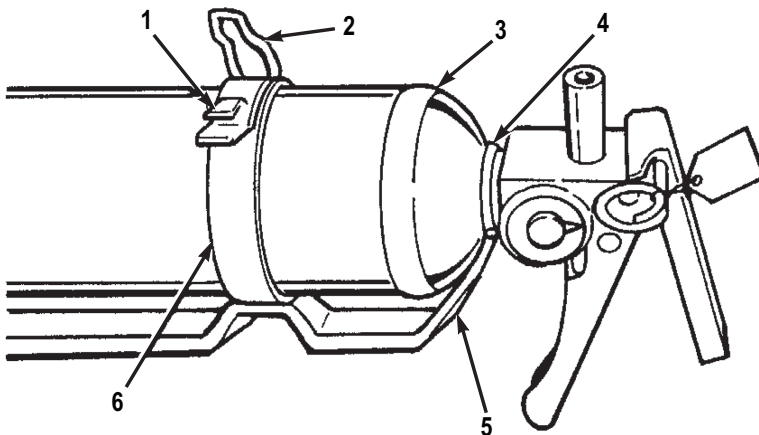


Figure 3. Fire Extinguisher Operation.

Operation - Continued

8. Put clamp (Figure 3, Item 1) on hook (Figure 3, Item 2).
9. Push down on clamp (Figure 3, Item 1) to secure strap (Figure 3, Item 6).

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE PLACE/REMOVE TIRE CHOCK BLOCKS

INITIAL SETUP:

Tools and Special Tools

Chocks, Wheel (WP 0058, Table 2,
Item 4)

PLACE TIRE CHOCK BLOCKS

NOTE

Trailer should be parked on level ground.

1. Remove chock blocks (Figure 1, Item 3) from stowage box (Figure 1, Item 2).

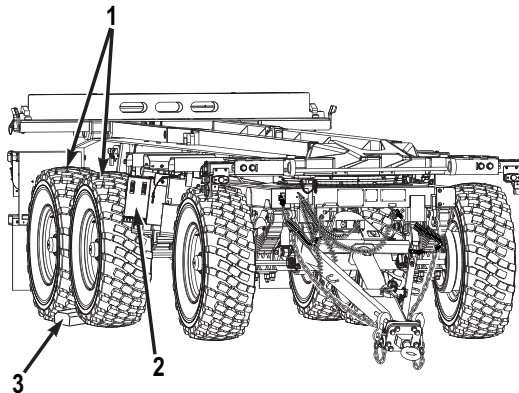


Figure 1. Place Tire Chock Blocks.

2. Place chock blocks (Figure 1, Item 3) on ground between wheels (Figure 1, Item 1) of Axles No. 2 and No. 3.

END OF TASK

REMOVE TIRE CHOCK BLOCKS

1. Remove chock blocks from ground between wheels (Figure 2, Item 1) of Axles No. 2 and No. 3.

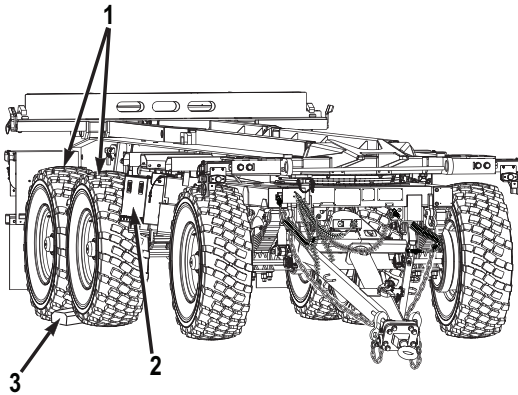
REMOVE TIRE CHOCK BLOCKS - Continued

Figure 2. Remove Tire Chock Blocks.

2. Place chock blocks (Figure 2, Item 3) in stowage box (Figure 2, Item 2).

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE DRAIN AIR RESERVOIRS

INITIAL SETUP:

Equipment Condition

Wheels chocked. (WP 0020)

DRAIN

NOTE

When draining air system for maintenance or troubleshooting procedures, drain air from reservoirs until no air is heard exhausting from reservoirs.

1. Pull cable (Figure 1, Item 2) on each reservoir (Figure 1, Item 1) to release air. Observe airstream for evidence of moisture. If no moisture is present, release cable (Figure 1, Item 2). If moisture is present in airstream, continue to release air until no moisture is evident.

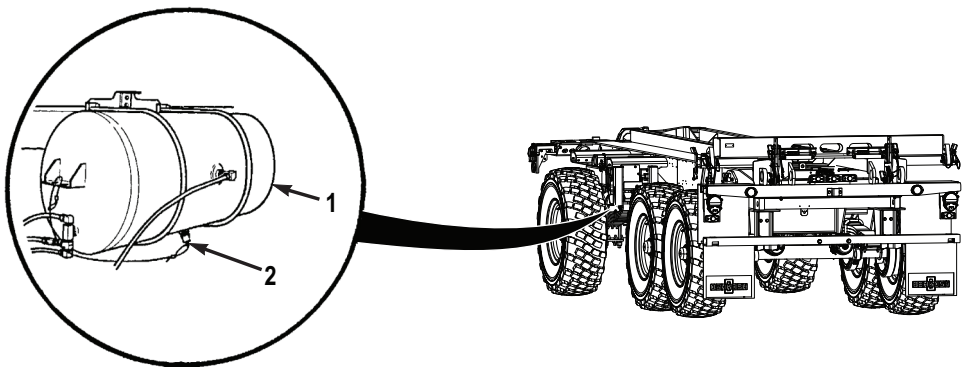


Figure 1. Drain Air Reservoirs.

2. Release cable (Figure 1, Item 2).

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE CHARGE AIR SYSTEM

INITIAL SETUP:

References

WP 0020

WP 0057

Charge Air System

WARNING

Trailer wheels must be chocked or drawbar connected to vehicle before coupling trailer gladhands to vehicle. Failure to comply may result in injury or death to personnel.

NOTE

When air pressure is supplied through emergency line, trailer brakes will automatically release. When line is disconnected, trailer brakes will automatically lock.

1. Chock trailer wheels (WP 0020).

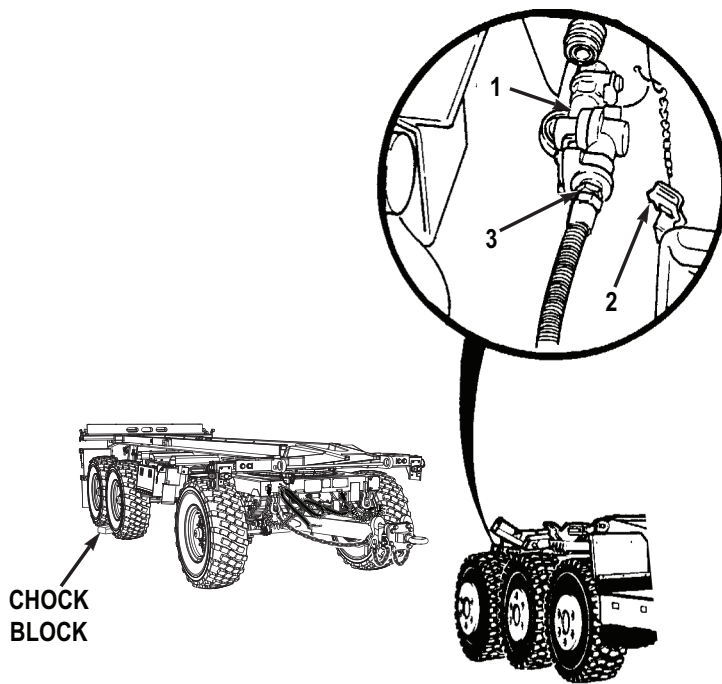
Charge Air System - Continued

Figure 1. Charge Air System.

2. Remove cover (Figure 1, Item 2) from vehicle emergency gladhand (Figure 1, Item 1).
3. Hook up emergency hose gladhand (Figure 1, Item 3) to vehicle emergency gladhand (Figure 1, Item 1).
4. Start vehicle. Refer to vehicle Operator's manual (WP 0057).
5. Push in trailer air supply valve located in vehicle cab. Refer to vehicle Operator's manual (WP 0057).
6. Allow trailer air pressure to build to operating pressure 120 to 125 psi (827 to 861 kPa).
7. Pull out trailer air supply valve located in vehicle cab. Refer to vehicle Operator's manual (WP 0057).
8. Shut OFF engine. Refer to vehicle Operator's manual (WP 0057).
9. Remove trailer emergency gladhand hose (Figure 1, Item 3) from vehicle emergency gladhand (Figure 1, Item 1).

Charge Air System - Continued

10. Install cover (Figure 1, Item 2) on vehicle emergency gladhand (Figure 1, Item 1).

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE LOWER DRAWBAR

INITIAL SETUP:

References

WP 0011

Equipment Condition

Wheels chocked. (WP 0020)

Lower Drawbar

1. Retract drawbar (WP 0011).

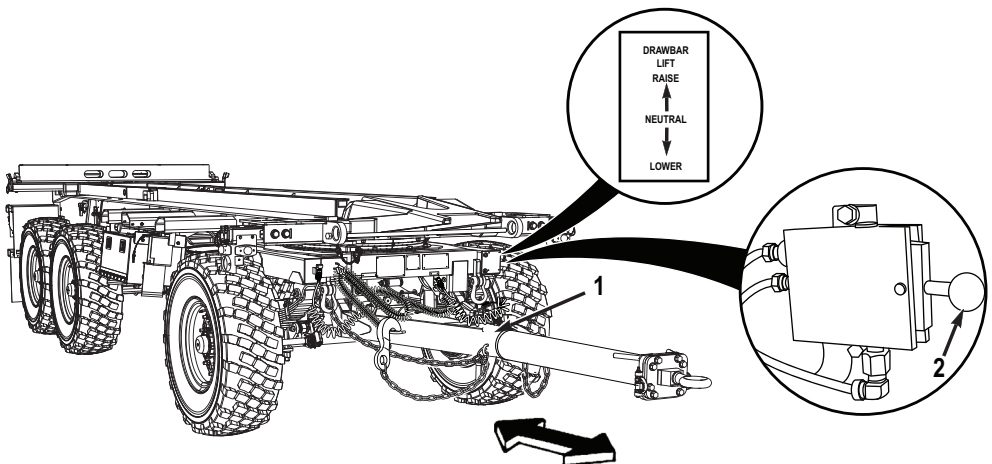


Figure 1. Lower Drawbar.

2. Move air assist lever (Figure 1, Item 2) to DOWN position to lower drawbar (Figure 1, Item 1) to ground.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE STOW/UNSTOW ISO LOCKS

INITIAL SETUP:

Equipment Condition

Wheels chocked. (WP 0020)

UNSTOW

NOTE

Both ISO lock mount pins are removed the same way. Right side shown.

1. Remove safety lock pin (Figure 1, Item 3) from ISO lock mount (Figure 1, Item 2).

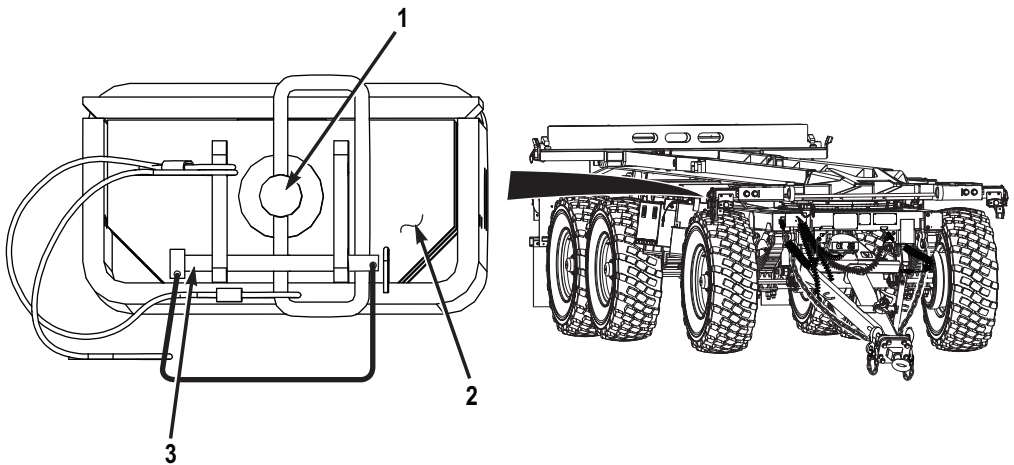


Figure 1. ISO Lock Unstow.

2. Remove hitch pin (Figure 1, Item 1) from ISO lock mount (Figure 1, Item 2).
3. Repeat Steps (1) and (2) for left side.

UNSTOW - Continued**NOTE**

- Both ISO locks are removed the same way. Outboard ISO lock shown.
- Note position of two ISO locks prior to removal to ensure proper installation.

4. Remove gravity lock hitch pin (Figure 2, Item 3) and ISO lock (Figure 2, Item 1) from ISO lock bracket (Figure 2, Item 2).

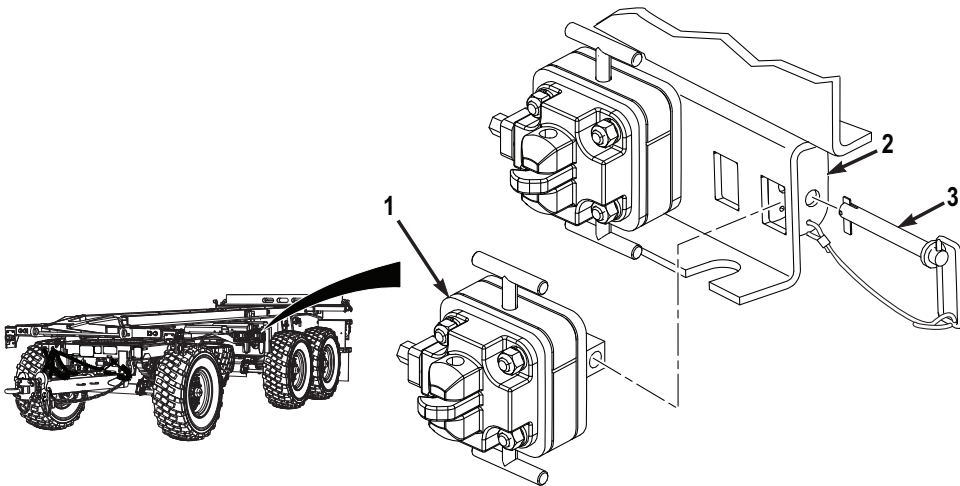


Figure 2. ISO Lock Unstow.

5. Repeat Step (4) for inboard ISO lock.

NOTE

- Both ISO locks are installed the same way. Right side shown.
- Ensure ISO lock adjustment screw faces outboard.

6. Install ISO lock (Figure 3, Item 8) on ISO lock mount (Figure 3, Item 6) with ISO lock adjustment screw (Figure 3, Item 4) facing outboard.

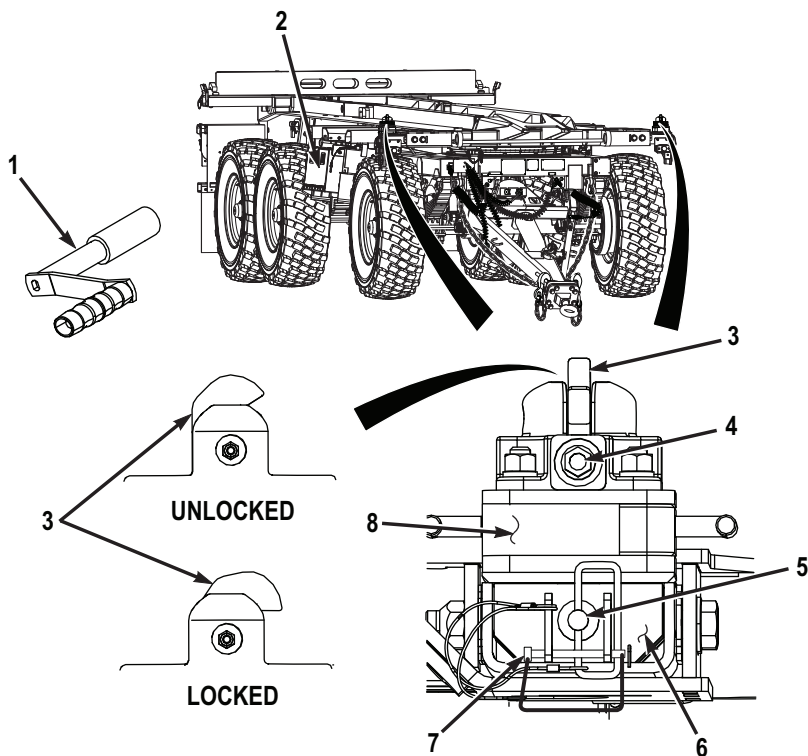
UNSTOW - Continued

Figure 3. ISO Lock Unstow.

7. Secure ISO lock (Figure 3, Item 8) on ISO lock mount (Figure 3, Item 6) with hitch pin (Figure 3, Item 5).
8. Install safety lock pin (Figure 3, Item 7) on ISO lock mount (Figure 3, Item 6).
9. Remove crank handle (Figure 3, Item 1) from BII stowage box (Figure 3, Item 2).
10. With the aid of a crank handle (Figure 3, Item 1), rotate ISO lock adjustment screw (Figure 3, Item 4) counterclockwise until ISO lock hook (Figure 3, Item 3) is fully unlocked.
11. Repeat Steps (6) through (10) for left side.
12. Stow crank handle (Figure 3, Item 1) in BII stowage box (Figure 3, Item 2).

END OF TASK

STOW

1. Remove crank handle (Figure 4, Item 1) from BII stowage box (Figure 4, Item 2).

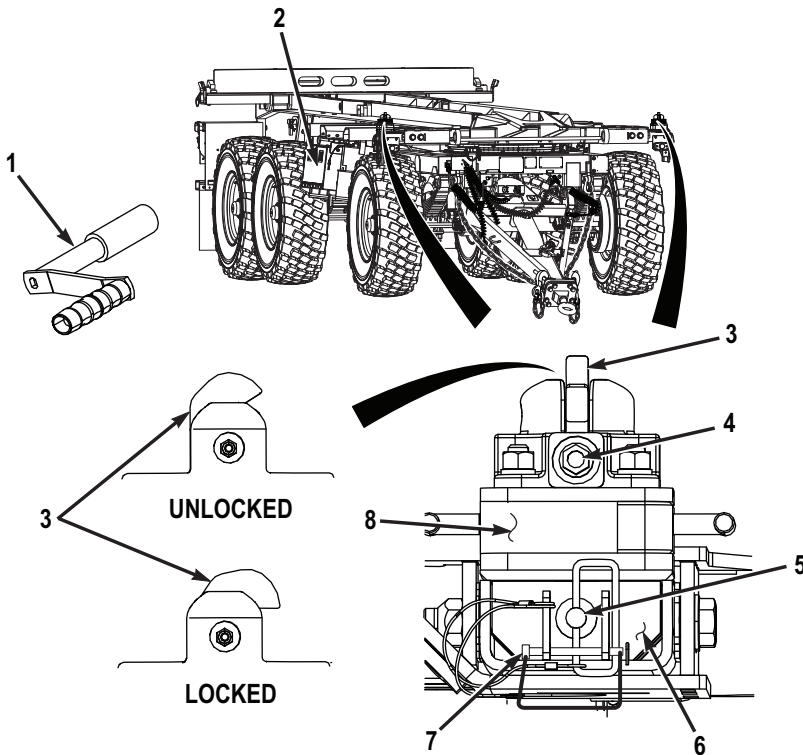


Figure 4. ISO Lock Stow.

CAUTION

To minimize damage to ISO locks when they are stowed on ISO lock bracket, ensure ISO lock hook does not move. Failure to comply may result in damage to equipment.

NOTE

Both ISO locks are removed the same way. Right side shown.

2. With the aid of a crank handle (Figure 4, Item 1), rotate ISO lock adjustment screw (Figure 4, Item 4) clockwise until ISO lock hook (Figure 4, Item 3) does not move.
3. Remove safety lock pin (Figure 4, Item 7) from ISO lock mount (Figure 4, Item 6).
4. Remove hitch pin (Figure 4, Item 5) from ISO lock (Figure 4, Item 8) and ISO lock mount (Figure 4, Item 6).

STOW - Continued

5. Remove ISO lock (Figure 4, Item 8) from ISO lock mount (Figure 4, Item 6).
6. Repeat Steps (2) through (5) for left side ISO lock.
7. Stow crank handle (Figure 4, Item 1) in BII stowage box (Figure 4, Item 2).

CAUTION

To minimize damage to ISO lock adjustment screw, install ISO lock facing inboard. Failure to comply may result in damage to equipment.

NOTE

- Both ISO locks are installed the same way. Inboard ISO lock shown.
 - Install ISO locks as noted prior to removal.
8. Install ISO lock (Figure 5, Item 3) on ISO lock bracket (Figure 5, Item 2) with gravity lock hitch pin (Figure 5, Item 1).

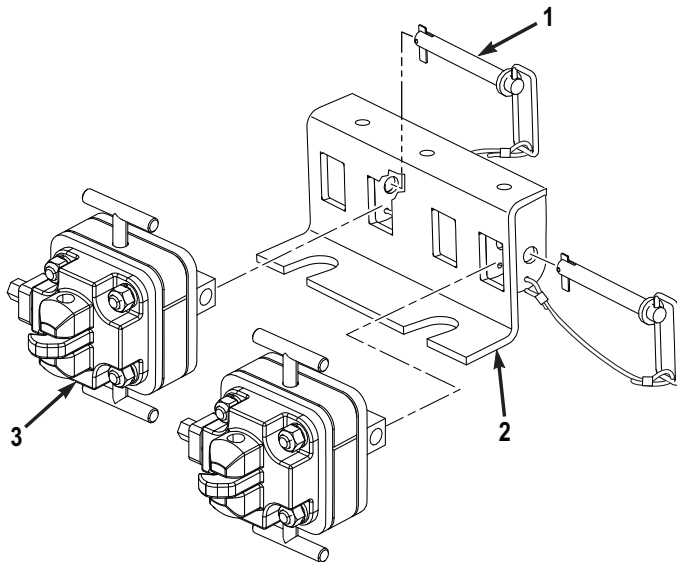


Figure 5. ISO Lock Stow.

9. Repeat Step (8) for outboard ISO lock.

STOW - Continued**NOTE**

Both ISO lock mount pins are installed the same way. Right side shown.

10. Install hitch pin (Figure 6, Item 1) on ISO lock mount (Figure 6, Item 2).

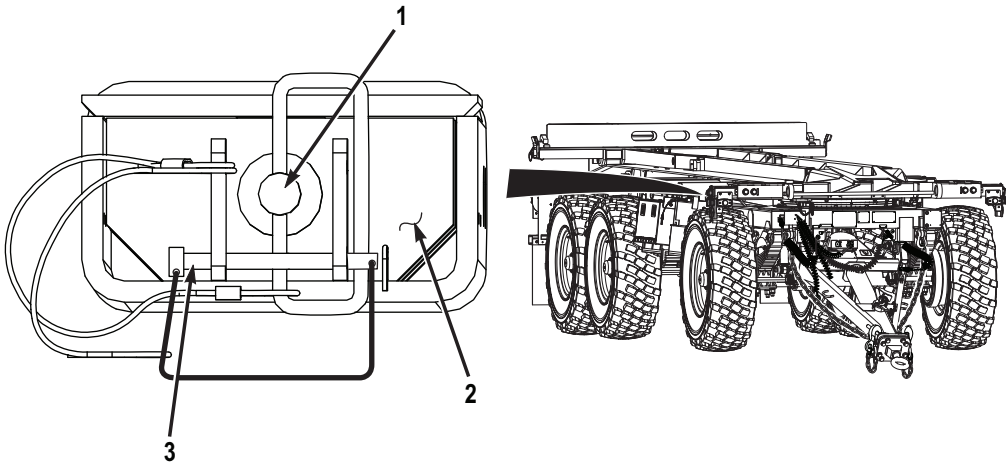


Figure 6. ISO Lock Stow.

11. Install safety lock pin (Figure 6, Item 3) on ISO lock mount (Figure 6, Item 2).
12. Repeat Steps (10) and (11) for left side.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE STOW/UNSTOW CART

INITIAL SETUP:

Tools and Special Tools

Sling, Cart Loading (WP 0058, Table 2, Item 14)
Wrench, Adjustable (WP 0058, Table 2, Item 19)
Wrench, Adjustable (Refer to vehicle Operator's manual) (WP 0057)

References

WP 0057

Equipment Condition

Wheels chocked. (WP 0020)

Personnel Required

(3)

CONTAINER MODE TO FLATRACK MODE

NOTE

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

1. Remove lynch pin (Figure 1, Item 2) from hitch pin (Figure 1, Item 1).

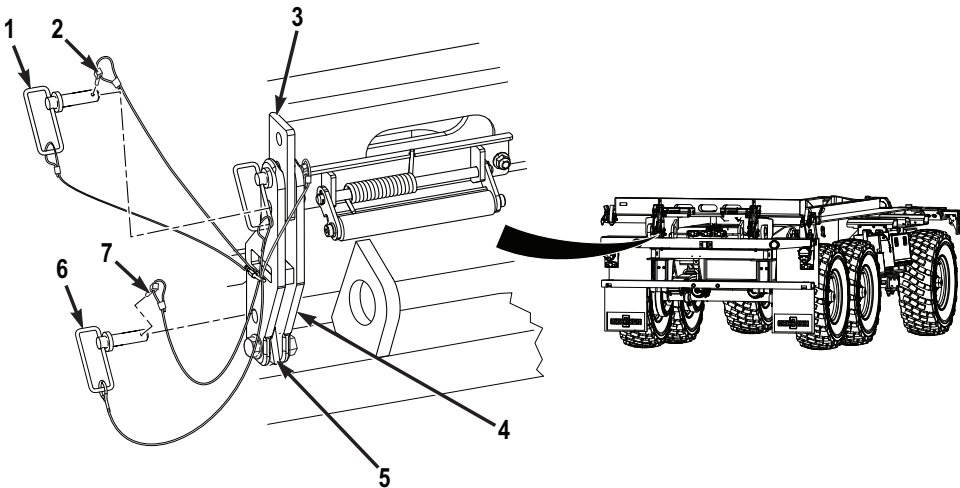
CONTAINER MODE TO FLATRACK MODE - Continued

Figure 1. Container Mode to Flatrack Mode.

2. Remove hitch pin (Figure 1, Item 1) from cart pivot bracket (Figure 1, Item 4) and cart bracket (Figure 1, Item 3).
3. Remove lynch pin (Figure 1, Item 7) from hitch pin (Figure 1, Item 6).
4. Remove hitch pin (Figure 1, Item 6) from cart pivot bracket (Figure 1, Item 4) and trailer bracket (Figure 1, Item 5).
5. Repeat Steps (1) through (4) for right side cart pivot bracket.
6. Start engine. Refer to vehicle Operator's manual (WP 0057).
7. Turn hydraulic selector switch to AUTO position. Refer to vehicle Operator's manual (WP 0057).

WARNING

- Check for overhead power lines or other obstructions before attempting LHS operation. Failure to comply may result in injury or death to personnel.
- Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in injury or death to personnel.

CONTAINER MODE TO FLATRACK MODE - Continued

8. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
9. Release joystick when lift hook (Figure 2, Item 2) is approximately 24 in. (610 mm) above cart (Figure 2, Item 1). Refer to vehicle Operator's manual (WP 0057).

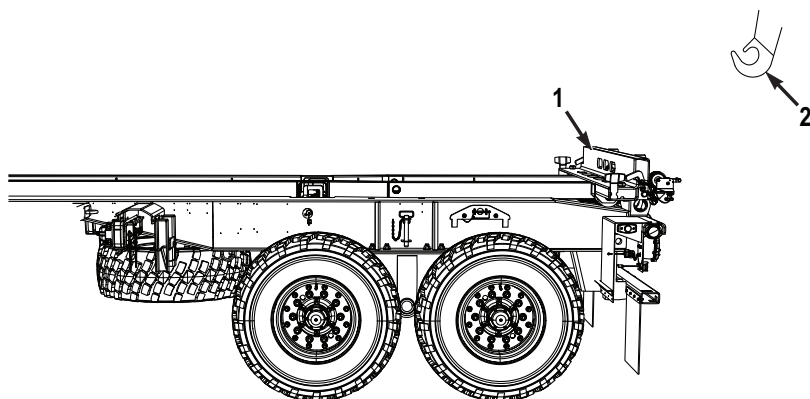


Figure 2. Container Mode to Flatrack Mode.

10. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle during backing procedures.
Failure to comply may result in injury or death to personnel.

11. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
12. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
13. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
14. With the aid of an assistant, back up vehicle until front leading edge of lift hook (Figure 3, Item 1) is centered and even with back of cart (Figure 3, Item 2).

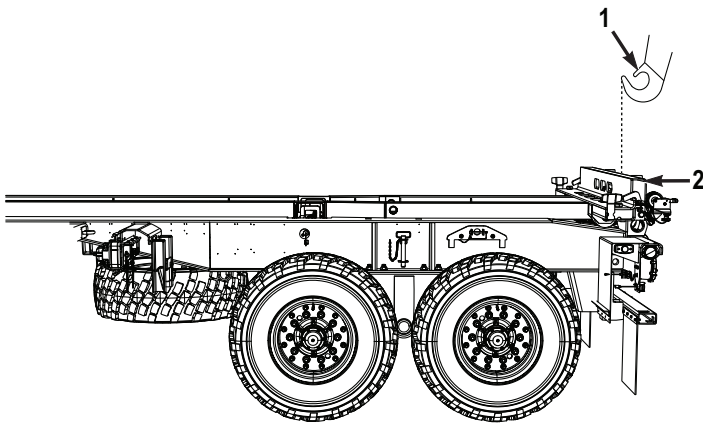
CONTAINER MODE TO FLATRACK MODE - Continued

Figure 3. Container Mode to Flatrack Mode.

15. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
16. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
17. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
18. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle when attaching cart loading sling. Stand on trailer when attaching cart loading sling. Failure to comply may result in injury or death to personnel.

19. Install cart loading sling (Figure 4, Item 1) on cart (Figure 4, Item 3).

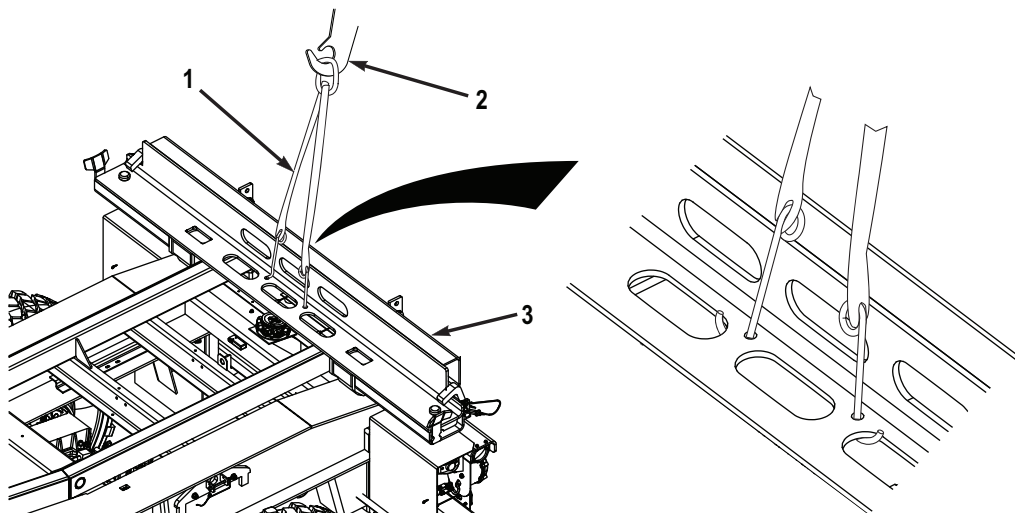
CONTAINER MODE TO FLATRACK MODE - Continued

Figure 4. Container Mode to Flatrack Mode.

20. Attach cart loading sling (Figure 4, Item 1) to lift hook (Figure 4, Item 2).

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

CAUTION

- Ensure wires and cables under cart are not hooked by cart loading sling hooks as cart is being raised. Failure to comply may result in damage to equipment.
- Ensure cart loading sling hooks stay in position as shown in Figure 4 as cart is being raised. Failure to comply may result in damage to equipment.

21. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
22. With the aid of an assistant, raise cart (Figure 5, Item 1) until bottom rollers (Figure 5, Item 2) are clear of roller stops (Figure 5, Item 3).

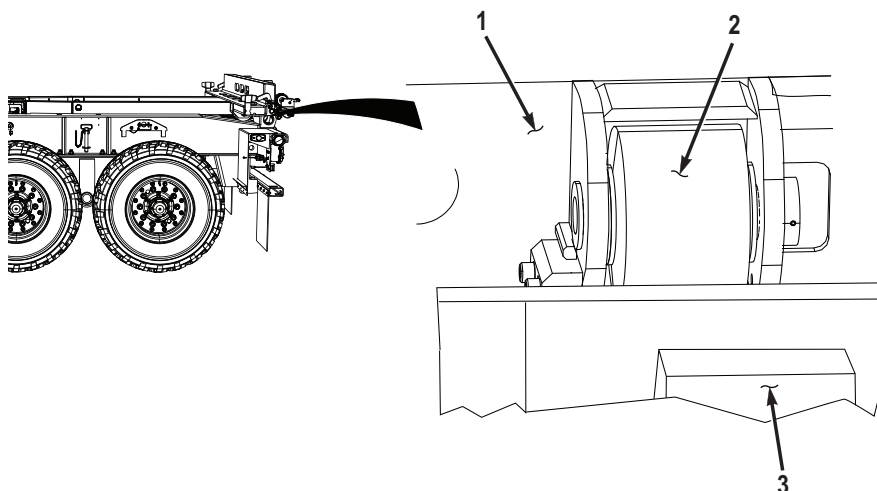
CONTAINER MODE TO FLATRACK MODE - Continued

Figure 5. Container Mode to Flatrack Mode.

23. Release joystick. Refer to vehicle Operator's manual (WP 0057).

WARNING

- Keep hands away from trailer bracket, pivot bracket, and trailer contact area. Failure to comply may result in injury to personnel.
 - Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.
24. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
25. With the aid of an assistant, lower cart (Figure 6, Item 3) onto cart brackets (Figure 6, Item 4).

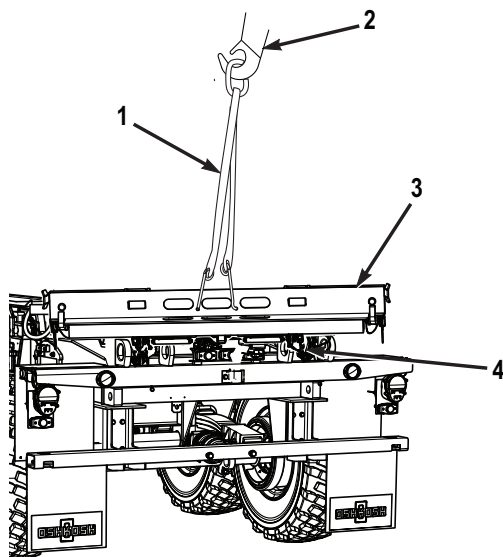
CONTAINER MODE TO FLATRACK MODE - Continued

Figure 6. Container Mode to Flatrack Mode.

26. Release joystick. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle when removing cart loading sling. Stand on trailer when removing cart loading sling. Failure to comply may result in injury or death to personnel.

27. Remove cart loading sling (Figure 6, Item 1) from lift hook (Figure 6, Item 2).
28. Drive vehicle forward and stow LHS. Refer to vehicle Operator's manual (WP 0057).
29. Remove cart loading sling (Figure 6, Item 1) from cart (Figure 6, Item 3).

NOTE

Left side and right side hitch pins and lynch pins are installed the same way. Left side shown.

CONTAINER MODE TO FLATRACK MODE - Continued

30. Install hitch pin (Figure 7, Item 4) in cart pivot bracket (Figure 7, Item 2) and cart bracket (Figure 7, Item 1).

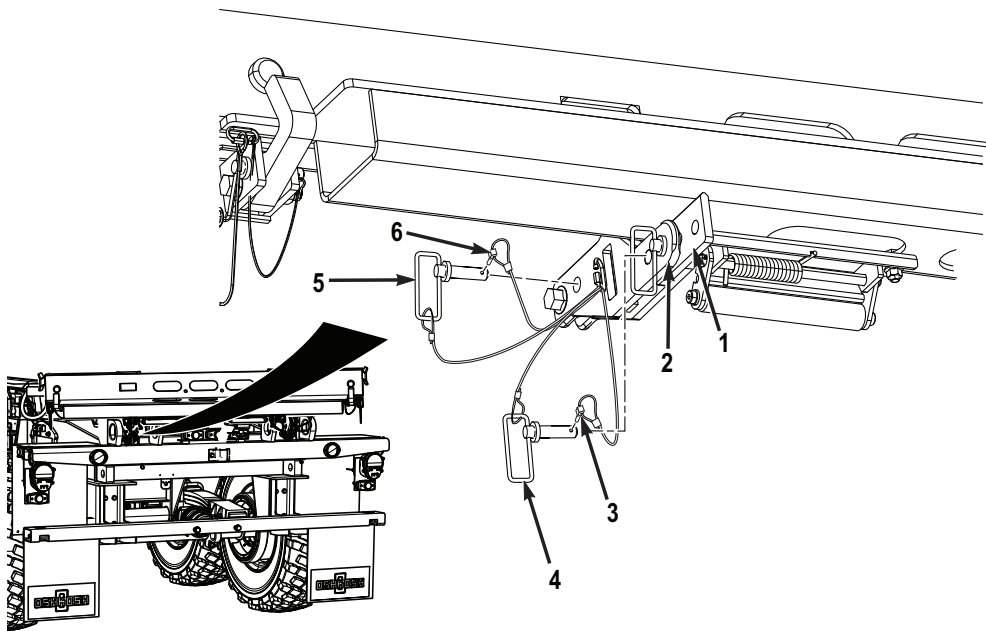


Figure 7. Container Mode to Flatrack Mode.

31. Install lynch pin (Figure 7, Item 3) on hitch pin (Figure 7, Item 4).
32. Install hitch pin (Figure 7, Item 5) in cart pivot bracket (Figure 7, Item 2).
33. Install lynch pin (Figure 7, Item 6) on hitch pin (Figure 7, Item 5).
34. Repeat Steps (30) through (33) for right side cart pivot bracket.

END OF TASK**FLATRACK MODE TO CONTAINER MODE**

1. Unload flatrack. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

FLATRACK MODE TO CONTAINER MODE - Continued

2. Remove lynch pin (Figure 8, Item 6) from hitch pin (Figure 8, Item 5).

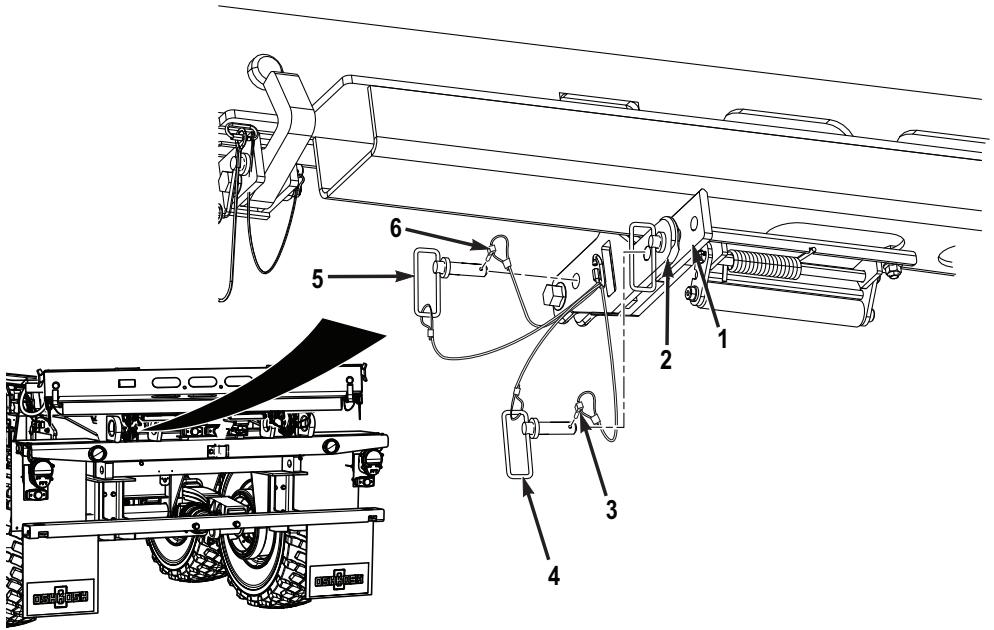


Figure 8. Flatrack Mode to Container Mode.

3. Remove hitch pin (Figure 8, Item 5) from cart pivot bracket (Figure 8, Item 2).
4. Remove lynch pin (Figure 8, Item 3) from hitch pin (Figure 8, Item 4).
5. Remove hitch pin (Figure 8, Item 4) from cart pivot bracket (Figure 8, Item 2) and cart bracket (Figure 8, Item 1).
6. Repeat Steps (2) through (5) for right side cart pivot bracket.
7. Install cart loading sling (Figure 9, Item 1) on cart (Figure 9, Item 2).

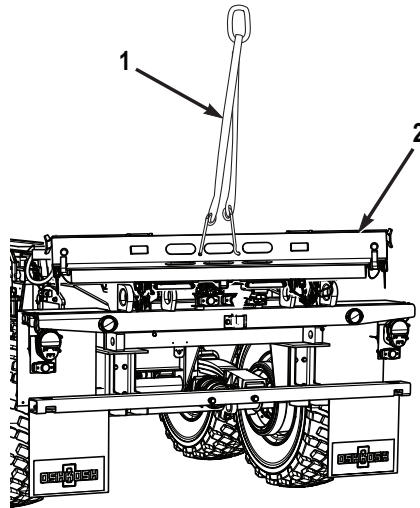
FLATRACK MODE TO CONTAINER MODE - Continued

Figure 9. Flatrack Mode to Container Mode.

8. Start engine. Refer to vehicle Operator's manual (WP 0057).
9. Turn hydraulic selector switch to AUTO position. Refer to vehicle Operator's manual (WP 0057).

WARNING

- Check for overhead power lines or other obstructions before attempting LHS operation. Failure to comply may result in injury or death to personnel.
 - Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in injury or death to personnel.
10. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
 11. Release joystick when lift hook (Figure 10, Item 1) is approximately 18 in. (46 cm) above cart (Figure 10, Item 2). Refer to vehicle Operator's manual (WP 0057).

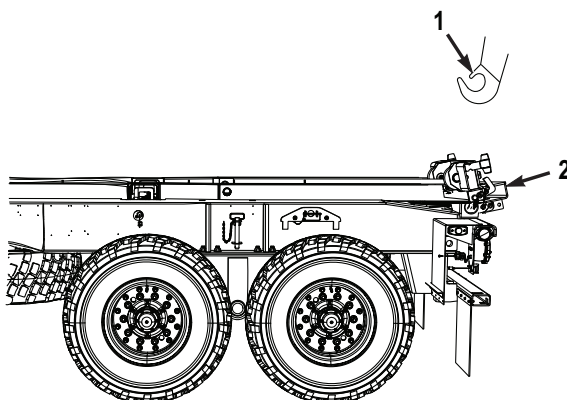
FLATRACK MODE TO CONTAINER MODE - Continued

Figure 10. Flatrack Mode to Container Mode.

12. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle during backing procedures.
Failure to comply may result in injury or death to personnel.

13. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
14. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
15. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
16. With the aid of an assistant, back up vehicle until lift hook (Figure 10, Item 1) is centered and directly above cart (Figure 10, Item 2).
17. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
18. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
19. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
20. Release service brake. Refer to vehicle Operator's manual (WP 0057).

FLATRACK MODE TO CONTAINER MODE - Continued**WARNING**

Do not stand between trailer and vehicle when attaching cart loading sling. Stand on trailer when attaching cart loading sling. Failure to comply may result in injury or death to personnel.

21. Attach cart loading sling (Figure 11, Item 1) to lift hook (Figure 11, Item 2).

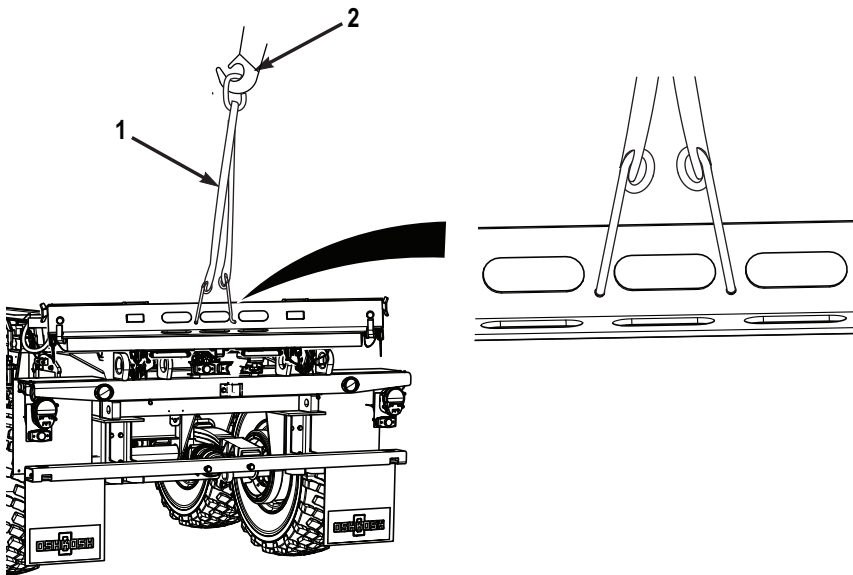


Figure 11. Flatrack Mode to Container Mode.

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

FLATRACK MODE TO CONTAINER MODE - Continued

22. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
23. With the aid of an assistant, raise cart (Figure 12, Item 1) until cart (Figure 12, Item 1) is clear of brackets (Figure 12, Item 2).

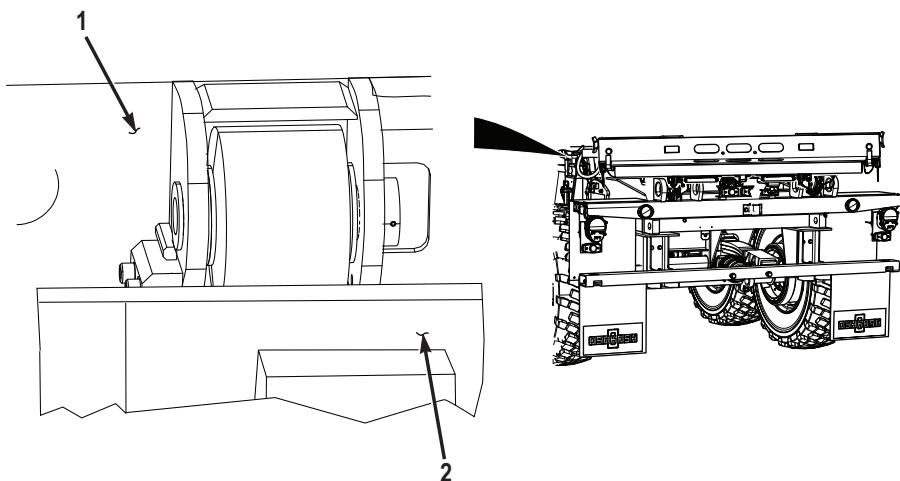


Figure 12. Flatrack Mode to Container Mode.

24. Release joystick. Refer to vehicle Operator's manual (WP 0057).
25. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
26. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
27. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
28. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

29. With the aid of an assistant, move vehicle back approximately 1 ft (30 cm). Refer to vehicle Operator's manual (WP 0057).
30. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
31. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).

FLATRACK MODE TO CONTAINER MODE - Continued

32. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
33. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

- Keep hands away from trailer bracket, pivot bracket, and trailer contact area. Failure to comply may result in injury to personnel.
 - Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.
34. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
 35. With the aid of an assistant, lower cart (Figure 13, Item 3) until cart (Figure 13, Item 3) rests on trailer (Figure 13, Item 4).

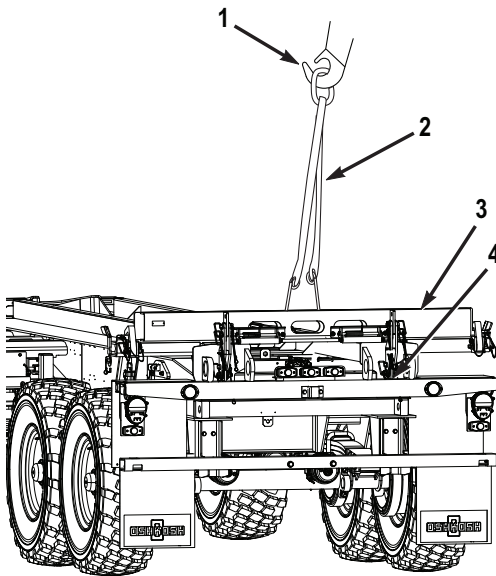


Figure 13. Flatrack Mode to Container Mode.

36. Release joystick. Refer to vehicle Operator's manual (WP 0057).

FLATRACK MODE TO CONTAINER MODE - Continued**WARNING**

Do not stand between trailer and vehicle when removing cart loading sling. Stand on trailer when removing cart loading sling. Failure to comply may result in injury or death to personnel.

37. Remove cart loading sling (Figure 13, Item 2) from lift hook (Figure 13, Item 1).
38. Remove cart loading sling (Figure 13, Item 2) from cart (Figure 13, Item 3).
39. Drive vehicle forward and stow LHS. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side hitch pins and lynch pins are installed the same way. Left side shown.

40. Install hitch pin (Figure 14, Item 1) in cart pivot bracket (Figure 14, Item 4) and cart bracket (Figure 14, Item 3).

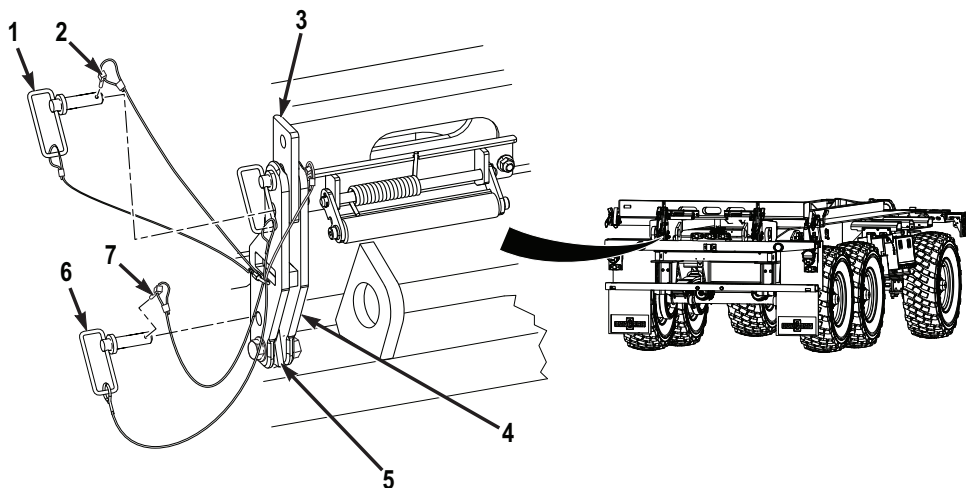


Figure 14. Flatrack Mode to Container Mode.

41. Install lynch pin (Figure 14, Item 2) on hitch pin (Figure 14, Item 1).
42. Install hitch pin (Figure 14, Item 6) in cart pivot bracket (Figure 14, Item 4) and trailer bracket (Figure 14, Item 5).

FLATRACK MODE TO CONTAINER MODE - Continued

43. Install lynch pin (Figure 14, Item 7) on hitch pin (Figure 14, Item 6).
44. Repeat Steps (40) through (43) for right side cart pivot bracket.

END OF TASK**CONTAINER MODE TO BUMPER**

1. Start engine. Refer to vehicle Operator's manual (WP 0057).
2. Turn hydraulic selector switch to AUTO position. Refer to vehicle Operator's manual (WP 0057).

WARNING

- Check for overhead power lines or other obstructions before attempting LHS operation. Failure to comply may result in injury or death to personnel.
 - Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in injury or death to personnel.
3. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
 4. With the aid of an assistant, release joystick when lift hook (Figure 15, Item 2) is approximately 12 in. (305 mm) above cart (Figure 15, Item 1). Refer to vehicle Operator's manual (WP 0057).

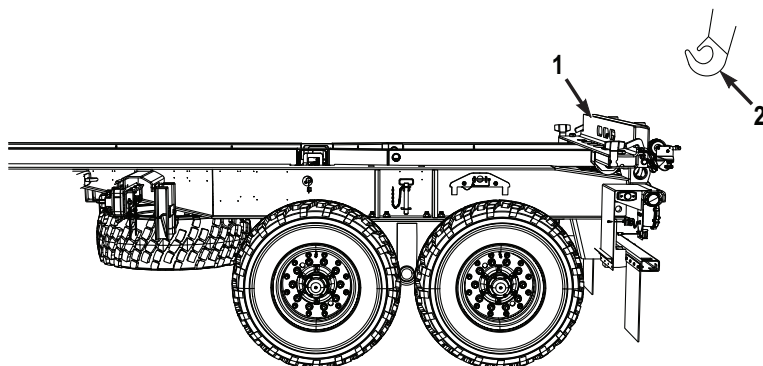
CONTAINER MODE TO BUMPER - Continued

Figure 15. Container Mode to Bumper.

5. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle during backing procedures.
Failure to comply may result in injury or death to personnel.

6. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
7. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
8. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

9. With the aid of an assistant, back up and position lift hook (Figure 16, Item 1) centered and directly above cart (Figure 16, Item 2).

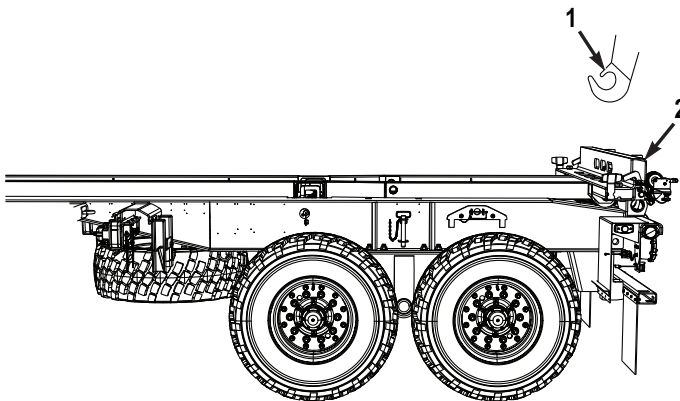
CONTAINER MODE TO BUMPER - Continued

Figure 16. Container Mode to Bumper.

10. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
11. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
12. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
13. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle when attaching cart loading sling. Stand on trailer when attaching cart loading sling. Failure to comply may result in injury or death to personnel.

14. Install cart loading sling (Figure 17, Item 1) on upper holes (Figure 17, Item 3) in cart bracket (Figure 17, Item 4).

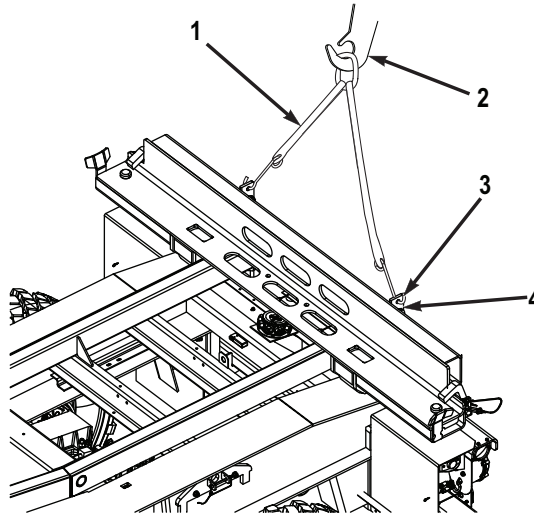
CONTAINER MODE TO BUMPER - Continued

Figure 17. Container Mode to Bumper.

15. Attach cart loading sling (Figure 17, Item 1) to lift hook (Figure 17, Item 2) and remove slack in cart loading sling (Figure 17, Item 1).

WARNING

Do not stand between trailer and vehicle when removing lynch pins and hitch pins. Stand on trailer when removing lynch pins and hitch pins. Failure to comply may result in injury or death to personnel.

WARNING

Cart weighs 433 lbs (197 kg). Do not attempt to lift or move cart without the aid of two assistants and lifting device. Failure to comply may result in serious injury or death to personnel.

CONTAINER MODE TO BUMPER - Continued**NOTE**

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

16. Remove two lynch pins (Figure 18, Item 2) from hitch pins (Figure 18, Item 1).

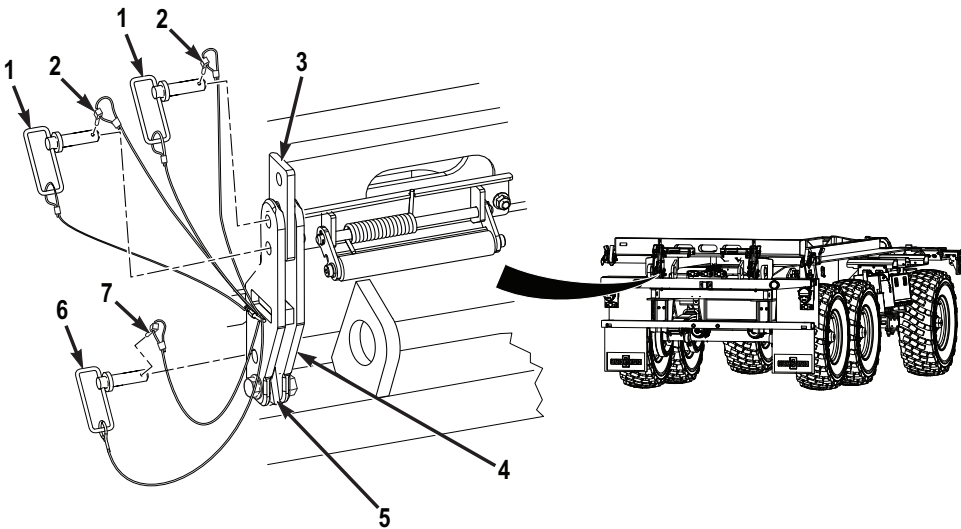


Figure 18. Container Mode to Bumper.

17. Remove two hitch pins (Figure 18, Item 1) from cart pivot bracket (Figure 18, Item 4) and cart bracket (Figure 18, Item 3).

WARNING

Hands may get pinched if cart pivot bracket falls while removing pin. Support cart pivot bracket while removing pin to avoid pinching fingers between trailer and cart pivot bracket. Failure to comply may result in injury to personnel.

18. Remove lynch pin (Figure 18, Item 7) from hitch pin (Figure 18, Item 6).

CONTAINER MODE TO BUMPER - Continued

19. Remove hitch pin (Figure 18, Item 6) from cart pivot bracket (Figure 18, Item 4) and trailer bracket (Figure 18, Item 5) and rotate cart pivot bracket (Figure 18, Item 4) down.

CAUTION

After lynch pins and hitch pins are removed, set lynch pins and hitch pins on top of trailer so they are not hanging down. Failure to comply may result in damage to equipment.

20. Repeat Steps (16) through (19) for right side cart pivot bracket.

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

21. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).

CAUTION

Ensure hitch pins and lynch pins do not get hooked on trailer while lifting cart from trailer. Failure to comply may result in damage to equipment.

22. With the aid of an assistant, raise cart (Figure 19, Item 1) until cart (Figure 19, Item 1) is clear of trailer (Figure 19, Item 2).

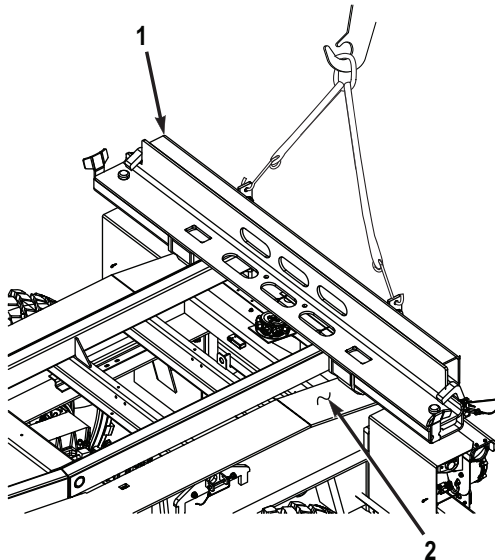
CONTAINER MODE TO BUMPER - Continued

Figure 19. Container Mode to Bumper.

23. Release joystick. Refer to vehicle Operator's manual (WP 0057).
24. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
25. Place transmission range selector to DRIVE. Refer to vehicle Operator's manual (WP 0057).
26. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
27. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
28. With the aid of an assistant, move vehicle forward until cart (Figure 19, Item 1) is no longer suspended above trailer (Figure 19, Item 2). Refer to vehicle Operator's manual (WP 0057).
29. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
30. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
31. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
32. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

CONTAINER MODE TO BUMPER - Continued**WARNING**

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

33. With the aid of an assistant, move joystick to UNLOAD position and set cart (Figure 20, Item 1) on the ground. Refer to vehicle Operator's manual (WP 0057).

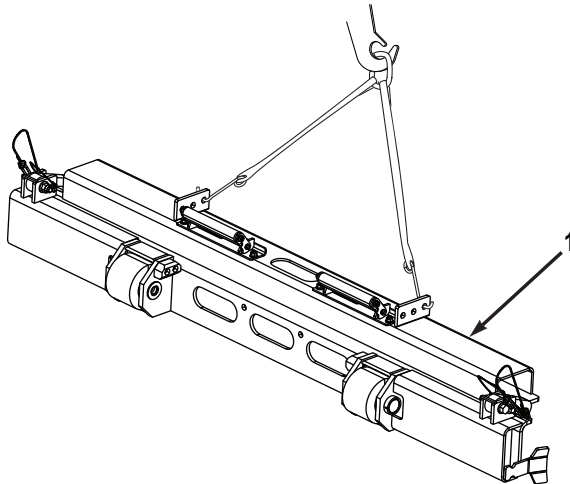


Figure 20. Container Mode to Bumper.

34. Shut off engine. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side container locks are unlocked the same way. Left side shown.

35. Remove lynch pin (Figure 21, Item 2) from hitch pin (Figure 21, Item 1).

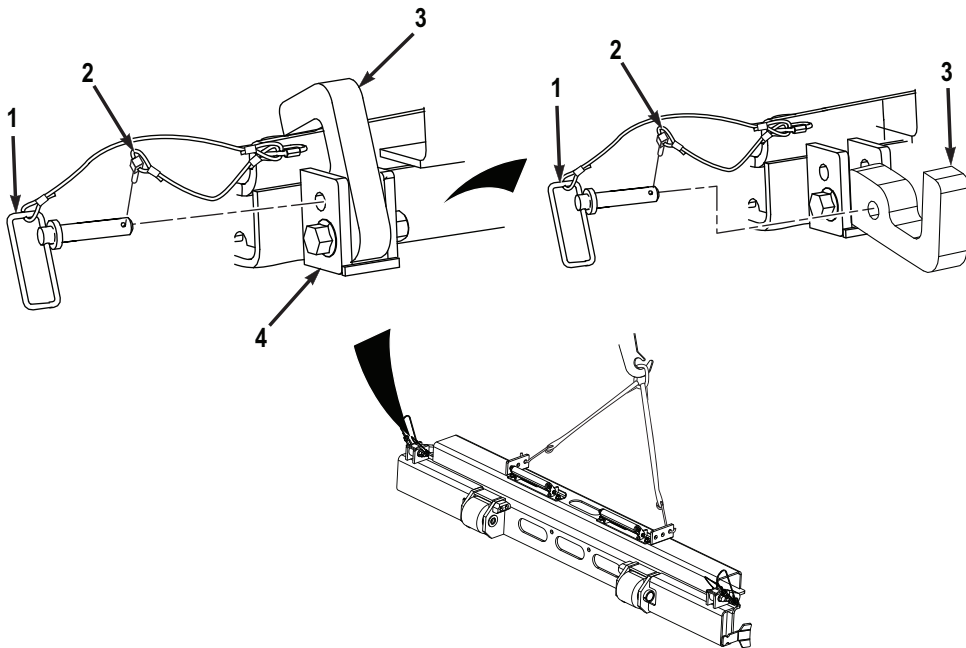
CONTAINER MODE TO BUMPER - Continued

Figure 21. Container Mode to Bumper.

36. Remove hitch pin (Figure 21, Item 1) from container lock bracket (Figure 21, Item 4) and container lock (Figure 21, Item 3).
37. Rotate container lock (Figure 21, Item 3) to unlocked position.
38. Install hitch pin (Figure 21, Item 1) in container lock (Figure 21, Item 3).
39. Install lynch pin (Figure 21, Item 2) in hitch pin (Figure 21, Item 1).
40. Repeat Steps (35) through (39) for right side container lock.
41. Remove two nuts (Figure 22, Item 4), lockwashers (Figure 22, Item 3), washers (Figure 22, Item 2), washers (Figure 22, Item 5), and screws (Figure 22, Item 6) from bumper (Figure 22, Item 1).

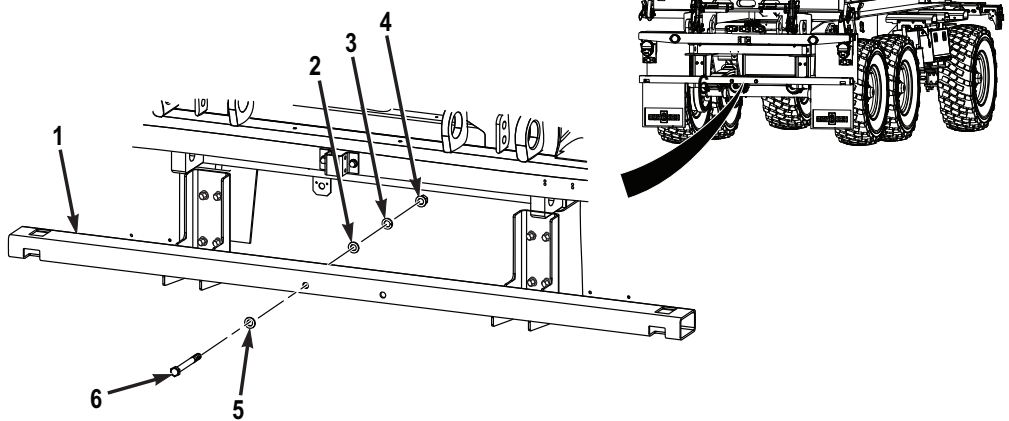
CONTAINER MODE TO BUMPER - Continued

Figure 22. Container Mode to Bumper.

42. Start engine. Refer to vehicle Operator's manual (WP 0057).
43. Adjust LHS hook as necessary to reposition cart loading sling (Figure 23, Item 1) from upper cart bracket holes (Figure 23, Item 3) to lower cart bracket holes (Figure 23, Item 2). Refer to vehicle Operator's manual (WP 0057).

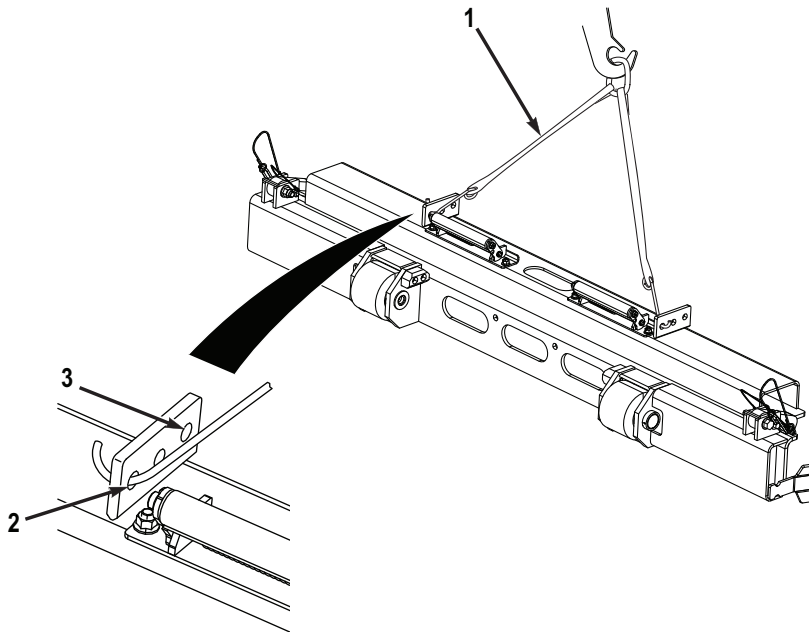
CONTAINER MODE TO BUMPER - Continued

Figure 23. Container Mode to Bumper.

44. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
45. With the aid of an assistant, adjust LHS to align cart (Figure 24, Item 2) with bumper (Figure 24, Item 1) and release joystick. Refer to vehicle Operator's manual (WP 0057).

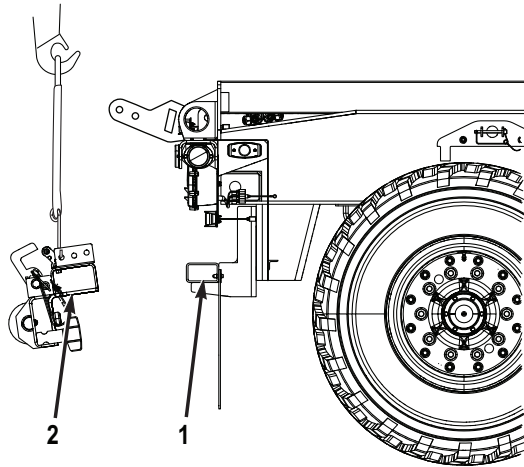
CONTAINER MODE TO BUMPER - Continued

Figure 24. Container Mode to Bumper.

WARNING

Do not stand between trailer and vehicle during backing procedures. Failure to comply may result in injury or death to personnel.

WARNING

Hands and fingers may get pinched while stowing cart on bumper. Watch hands while stowing cart on bumper to avoid pinching hands and fingers. Failure to comply may result in injury to personnel.

CAUTION

Ensure cart does not make contact with marker lights or composite lights. Failure to comply may result in damage to equipment.

46. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).

CONTAINER MODE TO BUMPER - Continued

47. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
48. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
49. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
50. With the aid of an assistant, move vehicle back until cart (Figure 25, Item 2) is in contact with bumper (Figure 25, Item 1). Refer to vehicle Operator's manual (WP 0057).

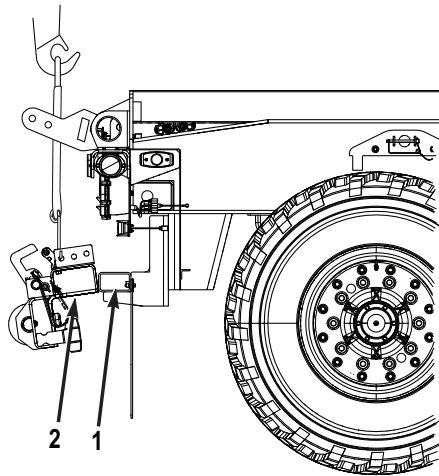


Figure 25. Container Mode to Bumper.

51. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
52. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
53. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
54. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
55. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
56. With the aid of an assistant, raise cart (Figure 26, Item 2) until cart (Figure 26, Item 2) is slightly above bumper (Figure 26, Item 1).

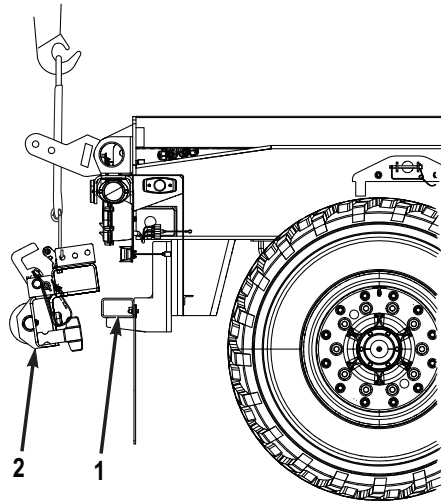
CONTAINER MODE TO BUMPER - Continued

Figure 26. Container Mode to Bumper.

57. Release joystick. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle during backing procedures. Failure to comply may result in injury or death to personnel.

WARNING

Hands and fingers may get pinched while stowing cart on bumper. Watch hands while stowing cart on bumper to avoid pinching hands and fingers. Failure to comply may result in injury to personnel.

CAUTION

Ensure cart does not make contact with marker lights or composite lights. Failure to comply may result in damage to equipment.

CONTAINER MODE TO BUMPER - Continued

58. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
59. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
60. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
61. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

62. With the aid of an assistant, move vehicle back until cart loading sling (Figure 27, Item 1) contacts trailer (Figure 27, Item 2). Refer to vehicle Operator's manual (WP 0057).

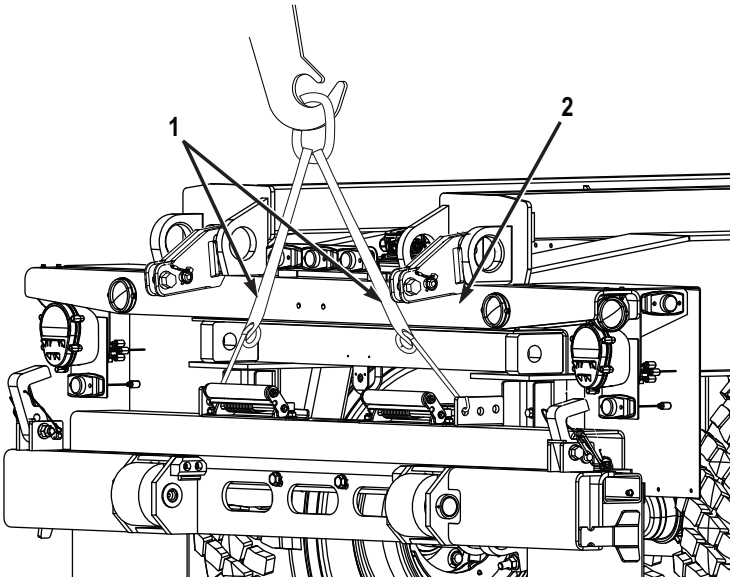


Figure 27. Container Mode to Bumper.

63. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
64. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
65. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).

CONTAINER MODE TO BUMPER - Continued

66. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side container locks are locked the same way. Left side shown.

67. Remove lynch pin (Figure 28, Item 2) from hitch pin (Figure 28, Item 1).

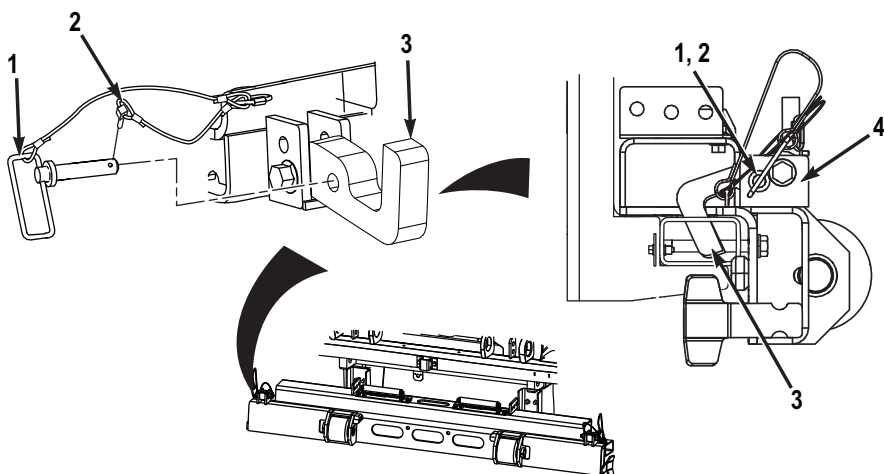


Figure 28. Container Mode to Bumper.

68. Remove hitch pin (Figure 28, Item 1) from container lock (Figure 28, Item 3).

NOTE

Cart may need to be adjusted by hand to allow container lock to be rotated to locked position.

69. Rotate container lock (Figure 28, Item 3) to locked position.
70. Install hitch pin (Figure 28, Item 1) in container lock bracket (Figure 28, Item 4) and container lock (Figure 28, Item 3).
71. Install lynch pin (Figure 28, Item 2) in hitch pin (Figure 28, Item 1).
72. Repeat Steps (67) through (71) for right side container lock.

CONTAINER MODE TO BUMPER - Continued**WARNING**

Do not stand between trailer and vehicle when removing cart loading sling. Stand on trailer when removing cart loading sling. Failure to comply may result in injury or death to personnel.

73. With the aid of an assistant, lower lift hook (Figure 29, Item 2) and remove cart loading sling (Figure 29, Item 1) from lift hook (Figure 29, Item 2).

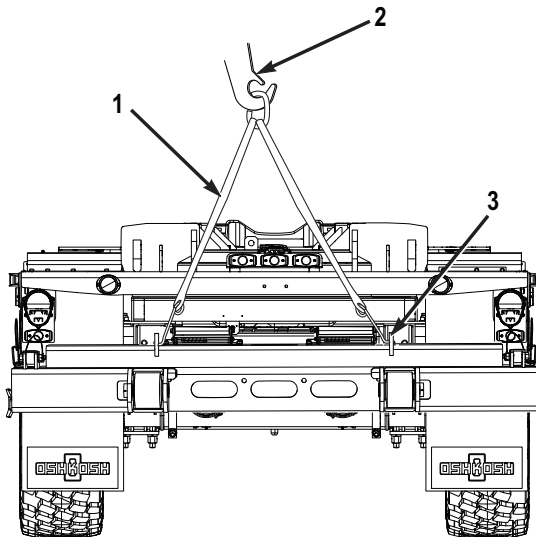


Figure 29. Container Mode to Bumper.

74. Drive vehicle forward and stow LHS. Refer to vehicle Operator's manual (WP 0057).
75. Remove cart loading sling (Figure 29, Item 1) from cart (Figure 29, Item 3).

CONTAINER MODE TO BUMPER - Continued**WARNING**

Do not go under cart when securing cart to bumper. Failure to comply may result in injury or death to personnel.

76. Secure cart (Figure 30, Item 5) to bumper (Figure 30, Item 4) with two washers (Figure 30, Item 7), screws (Figure 30, Item 6), washers (Figure 30, Item 1), lockwashers (Figure 30, Item 2), and nuts (Figure 30, Item 3). Tighten nuts.

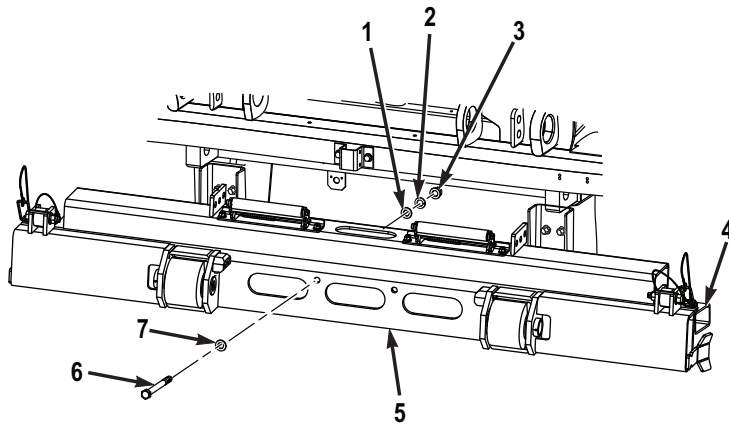


Figure 30. Container Mode to Bumper.

NOTE

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

77. Rotate cart pivot bracket (Figure 31, Item 3) up and install hitch pin (Figure 31, Item 5) in cart pivot bracket (Figure 31, Item 3) and trailer bracket (Figure 31, Item 4).

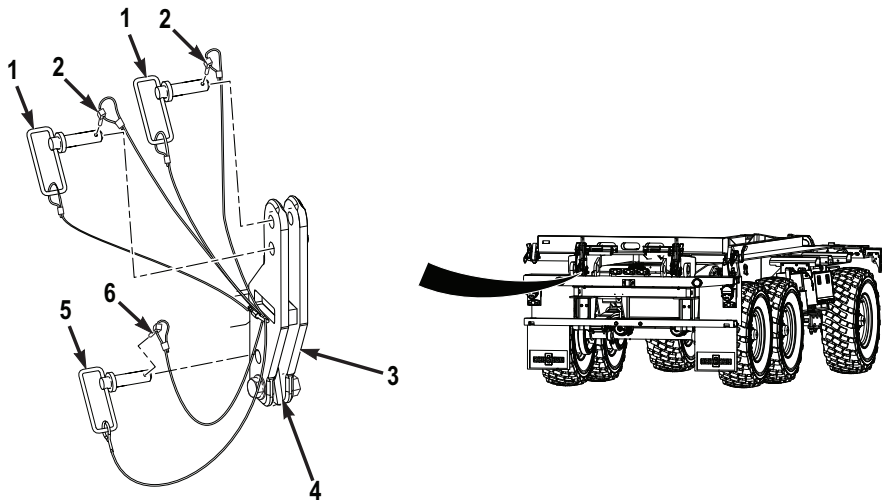
CONTAINER MODE TO BUMPER - Continued

Figure 31. Container Mode to Bumper.

78. Install lynch pin (Figure 31, Item 6) in hitch pin (Figure 31, Item 5).
79. Install two hitch pins (Figure 31, Item 1) in cart pivot bracket (Figure 31, Item 3).
80. Install two lynch pins (Figure 31, Item 2) in hitch pins (Figure 31, Item 1).
81. Repeat Steps (77) through (80) for right side cart pivot bracket.
82. Notify field maintenance at earliest opportunity to replace lockwashers and tighten nuts securing cart to bumper.

END OF TASK**BUMPER TO CONTAINER MODE****NOTE**

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

1. Remove two lynch pins (Figure 32, Item 2) from hitch pins (Figure 32, Item 1).

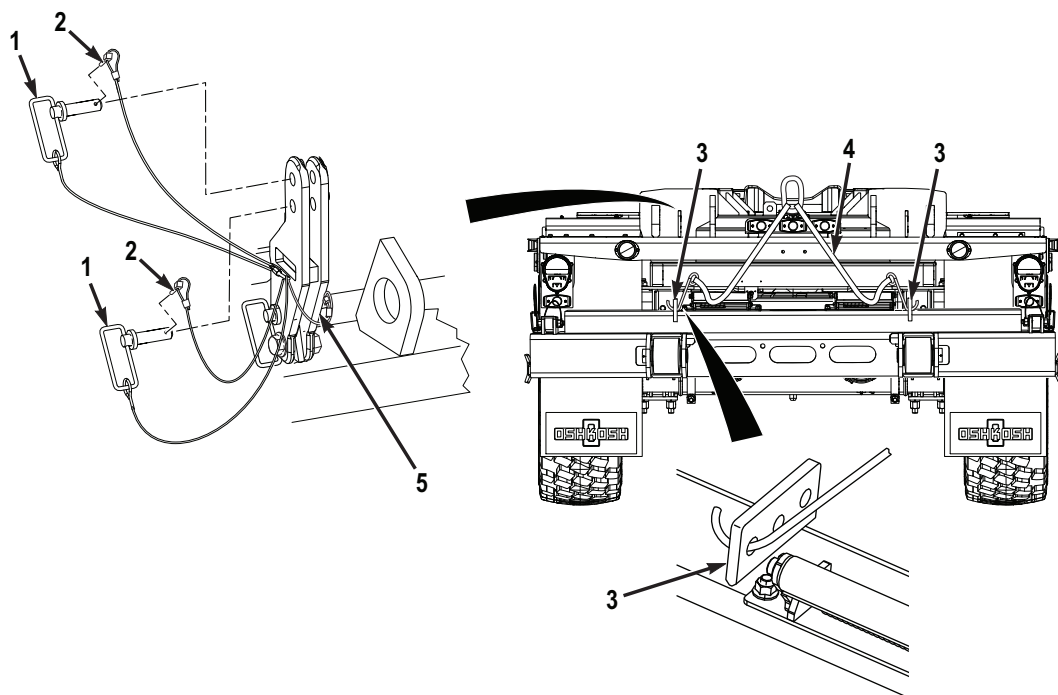
BUMPER TO CONTAINER MODE - Continued

Figure 32. Bumper to Container Mode.

2. Remove two hitch pins (Figure 32, Item 1) from cart pivot bracket (Figure 32, Item 5).

CAUTION

After lynch pins and hitch pins are removed, set lynch pins and hitch pins on top of trailer so they are not hanging down. Failure to comply may result in damage to equipment.

3. Repeat Steps (1) and (2) for right side cart pivot bracket.
4. Attach cart loading sling (Figure 32, Item 4) to two rearmost holes on cart bracket (Figure 32, Item 3).

BUMPER TO CONTAINER MODE - Continued**WARNING**

Do not go under cart when removing hardware securing cart to bumper.
Failure to comply may result in injury or death to personnel.

5. Remove two nuts (Figure 33, Item 3), lockwashers (Figure 33, Item 2), washers (Figure 33, Item 1), washers (Figure 33, Item 7), and screws (Figure 33, Item 6) from bumper (Figure 33, Item 4) and cart (Figure 33, Item 5).

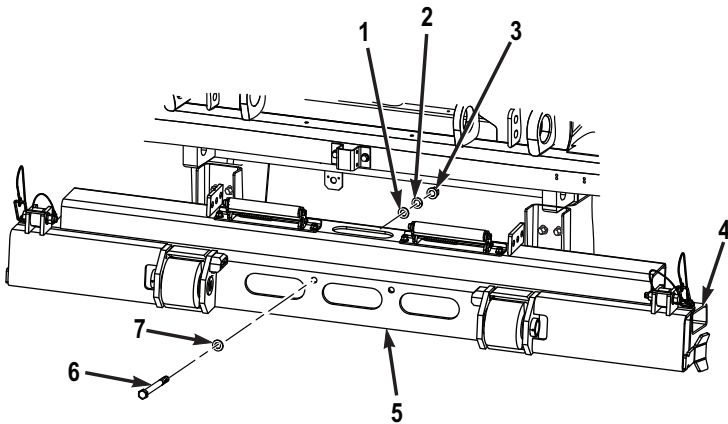


Figure 33. Bumper to Container Mode.

6. Start engine. Refer to vehicle Operator's manual (WP 0057).
7. Turn hydraulic selector switch to AUTO position. Refer to vehicle Operator's manual (WP 0057).

BUMPER TO CONTAINER MODE - Continued**WARNING**

- Check for overhead power lines or other obstructions before attempting LHS operation. Failure to comply may result in injury or death to personnel.
 - Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in injury or death to personnel.
8. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
 9. With the aid of an assistant, release joystick when lift hook (Figure 34, Item 1) is level with vehicle bumper (Figure 34, Item 2). Refer to vehicle Operator's manual (WP 0057).

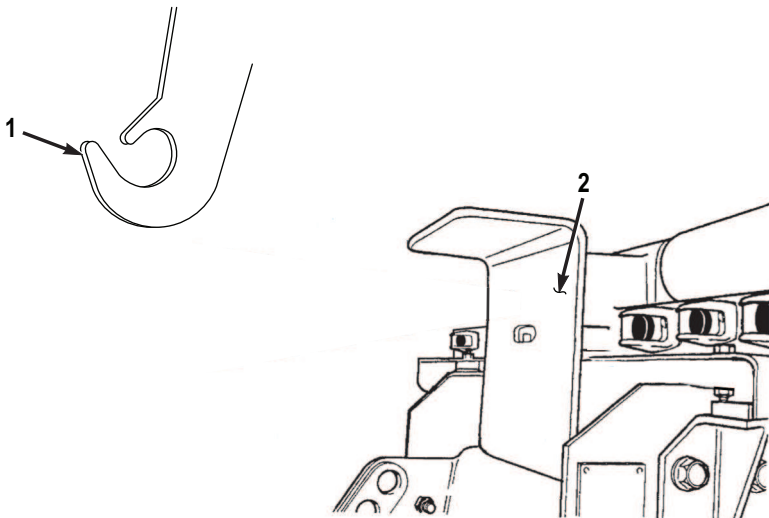


Figure 34. Bumper to Container Mode.

10. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).

BUMPER TO CONTAINER MODE - Continued**WARNING**

Do not stand between trailer and vehicle during backing procedures. Failure to comply may result in injury or death to personnel.

11. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
12. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
13. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

NOTE

One assistant should be on trailer to assist ground guide and vehicle operator when centering lift hook behind trailer.

14. With the aid of two assistants, back up and position lift hook (Figure 35, Item 2) centered and behind trailer (Figure 35, Item 3).

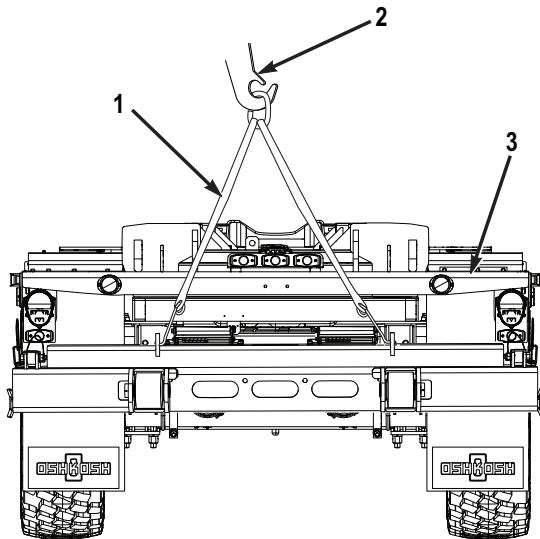
BUMPER TO CONTAINER MODE - Continued

Figure 35. Bumper to Container Mode.

15. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
16. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
17. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
18. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
19. Attach cart loading sling (Figure 35, Item 1) to lift hook (Figure 35, Item 2).
20. Move joystick to LOAD position until all slack is out of cart loading sling (Figure 35, Item 1). Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side container locks are unlocked the same way. Left side shown.

21. Remove lynch pin (Figure 36, Item 2) from hitch pin (Figure 36, Item 1).

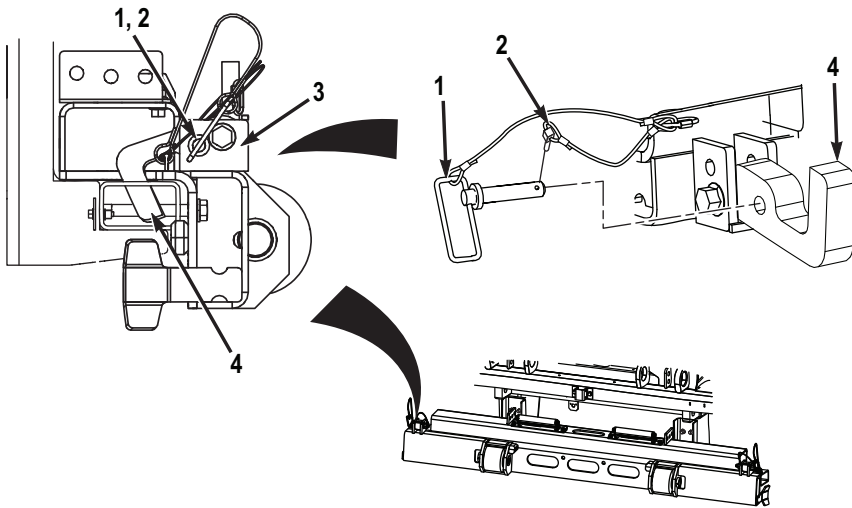
BUMPER TO CONTAINER MODE - Continued

Figure 36. Bumper to Container Mode.

22. Remove hitch pin (Figure 36, Item 1) from container lock bracket (Figure 36, Item 3) and container lock (Figure 36, Item 4).
23. Rotate container lock (Figure 36, Item 4) to unlocked position.
24. Install hitch pin (Figure 36, Item 1) in container lock (Figure 36, Item 4).
25. Install lynch pin (Figure 36, Item 2) in hitch pin (Figure 36, Item 1).
26. Repeat Steps (21) through (25) for right side container lock.

WARNING

Hands and fingers may get pinched by cart while sliding cart off bumper. Watch hands while removing cart from bumper to avoid pinching hands and fingers. Failure to comply may result in injury to personnel.

CAUTION

Ensure cart does not make contact with marker lights or composite lights. Failure to comply may result in damage to equipment.

BUMPER TO CONTAINER MODE - Continued

27. With the aid of an assistant, slide cart (Figure 37, Item 2) off bumper (Figure 37, Item 1).

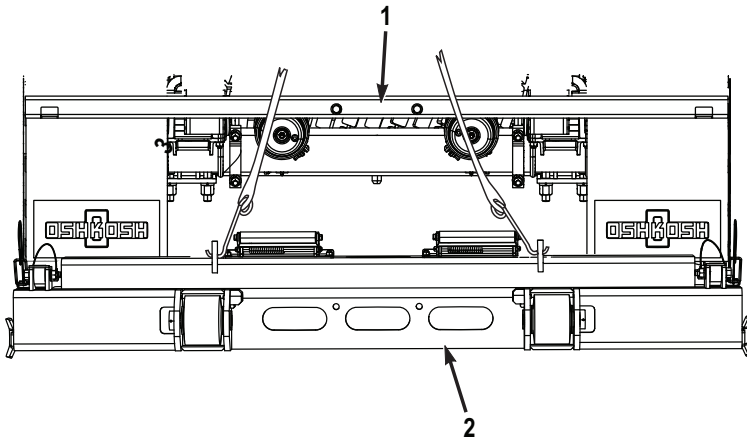


Figure 37. Bumper to Container Mode.

28. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
29. Place transmission range selector to DRIVE. Refer to vehicle Operator's manual (WP 0057).
30. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
31. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
32. With the aid of an assistant, move vehicle forward approximately 3 ft (8 cm). Refer to vehicle Operator's manual (WP 0057).
33. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
34. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
35. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
36. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
37. Move joystick to UNLOAD position and set cart (Figure 38, Item 2) on the ground. Refer to vehicle Operator's manual (WP 0057).

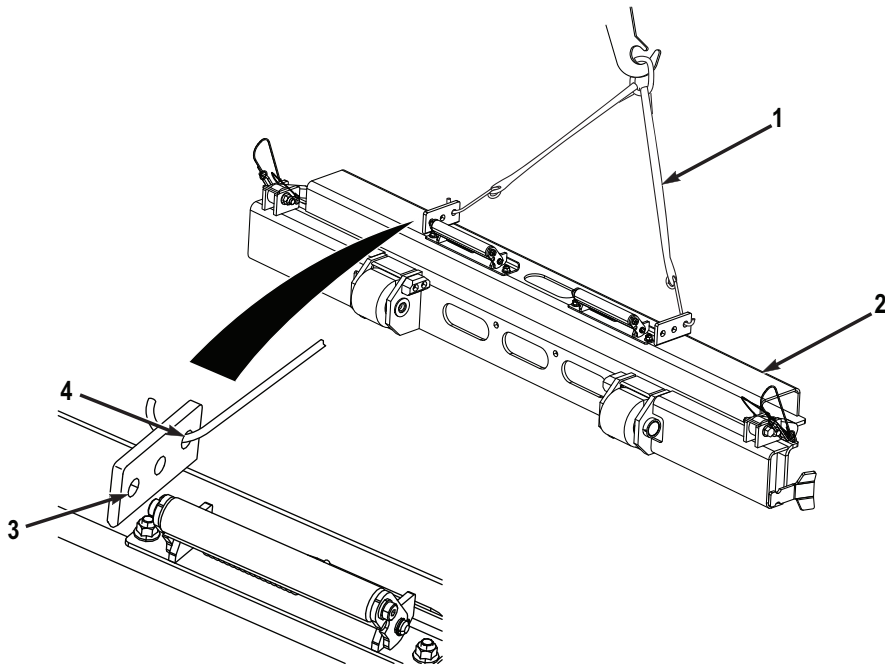
BUMPER TO CONTAINER MODE - Continued

Figure 38. Bumper to Container Mode.

38. Reposition cart loading sling (Figure 38, Item 1) from lower cart bracket holes (Figure 38, Item 3) and install cart loading sling on cart (Figure 38, Item 1) in upper cart bracket holes (Figure 38, Item 4).

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

39. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
40. With the aid of an assistant, raise cart (Figure 39, Item 1) until cart (Figure 39, Item 1) is above trailer (Figure 39, Item 2).

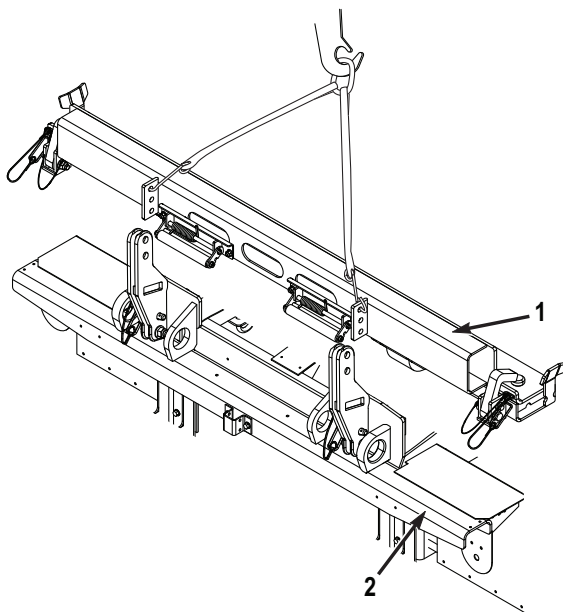
BUMPER TO CONTAINER MODE - Continued

Figure 39. Bumper to Container Mode.

41. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
42. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
43. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
44. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

45. With the aid of an assistant, back up and place cart (Figure 39, Item 1) over rear of trailer (Figure 39, Item 2).
46. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
47. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
48. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).

BUMPER TO CONTAINER MODE - Continued

49. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

WARNING

Do not hold pivot bracket or put hand between pivot bracket and cart when moving cart. Hands and fingers may be pinched between pivot bracket and cart as cart is being moved. Failure to comply may result in injury or death to personnel.

50. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
51. With the aid of two assistants, lower cart (Figure 39, Item 1) onto trailer (Figure 39, Item 2).

WARNING

Do not stand between trailer and vehicle when removing cart loading sling. Stand on trailer when removing cart loading sling. Failure to comply may result in injury or death to personnel.

52. With the aid of an assistant, lower hook arm and remove cart loading sling (Figure 40, Item 5) from lift hook (Figure 40, Item 4).

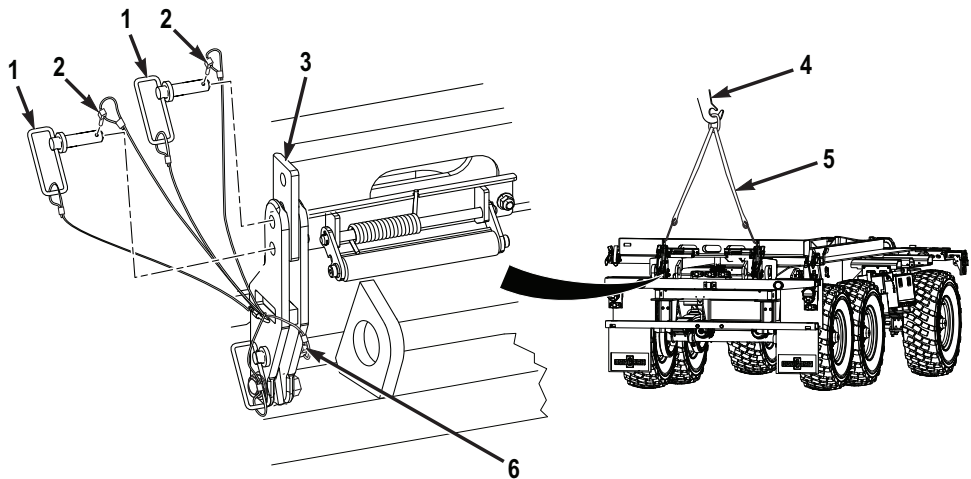
BUMPER TO CONTAINER MODE - Continued

Figure 40. Bumper to Container Mode.

53. Drive vehicle forward and stow LHS. Refer to vehicle Operator's manual (WP 0057).
54. Remove cart loading sling (Figure 40, Item 5) from two cart brackets (Figure 40, Item 3).

NOTE

Left side and right side hitch pins and lynch pins are installed the same way. Left side shown.

55. Align two bottom holes in cart bracket (Figure 40, Item 3) with holes in cart pivot bracket (Figure 40, Item 6) and install two hitch pins (Figure 40, Item 1) in cart pivot bracket (Figure 40, Item 6) and cart bracket (Figure 40, Item 3).
56. Install two lynch pins (Figure 40, Item 2) in hitch pins (Figure 40, Item 1).
57. Repeat Steps (55) and (56) for right side cart pivot bracket.

NOTE

Left side and right side container locks are locked the same way. Left side shown.

58. Remove lynch pin (Figure 41, Item 2) from hitch pin (Figure 41, Item 1).

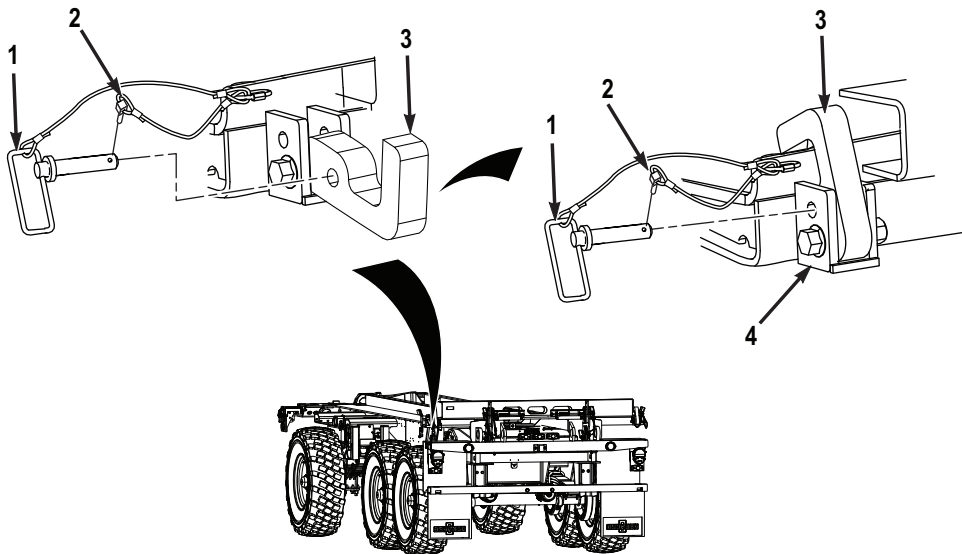
BUMPER TO CONTAINER MODE - Continued

Figure 41. Bumper to Container Mode.

59. Remove hitch pin (Figure 41, Item 1) from container lock (Figure 41, Item 3).
60. Rotate container lock (Figure 41, Item 3) to locked position and install hitch pin (Figure 41, Item 1) in container lock bracket (Figure 41, Item 4) and container lock (Figure 41, Item 3).
61. Install lynch pin (Figure 41, Item 2) in hitch pin (Figure 41, Item 1).
62. Repeat Steps (58) through (61) for right side container lock.
63. Install two washers (Figure 42, Item 5), screws (Figure 42, Item 6), washers (Figure 42, Item 2), lockwashers (Figure 42, Item 3), and nuts (Figure 42, Item 4) on bumper (Figure 42, Item 1).

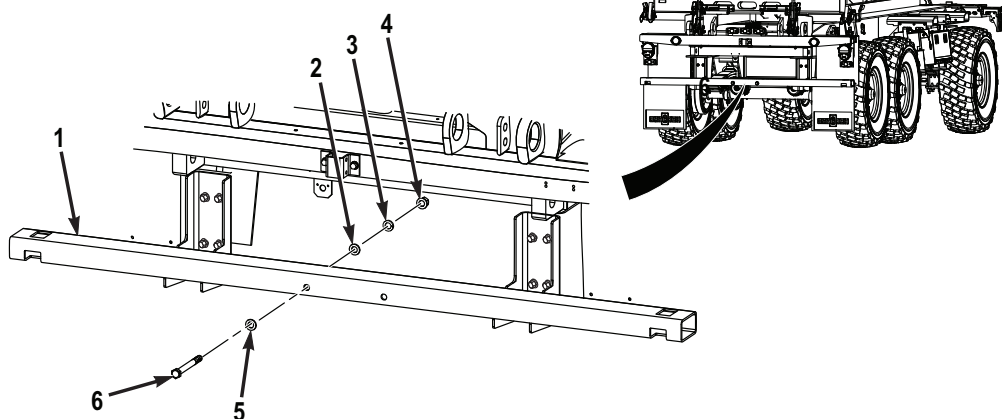
BUMPER TO CONTAINER MODE - Continued

Figure 42. Bumper to Container Mode.

64. Notify field maintenance at earliest opportunity to replace lockwashers and tighten nuts that secure cart to bumper.

END OF TASK**FLATRACK MODE TO BUMPER**

1. Start engine. Refer to vehicle Operator's manual (WP 0057).
2. Turn hydraulic selector switch to AUTO position. Refer to vehicle Operator's manual (WP 0057).

WARNING

- Check for overhead power lines or other obstructions before attempting LHS operation. Failure to comply may result in injury or death to personnel.
 - Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in injury or death to personnel.
3. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).

FLATRACK MODE TO BUMPER - Continued

4. With the aid of an assistant, release joystick when lift hook (Figure 43, Item 2) is approximately 12 in. (305 mm) above cart (Figure 43, Item 1). Refer to vehicle Operator's manual (WP 0057).

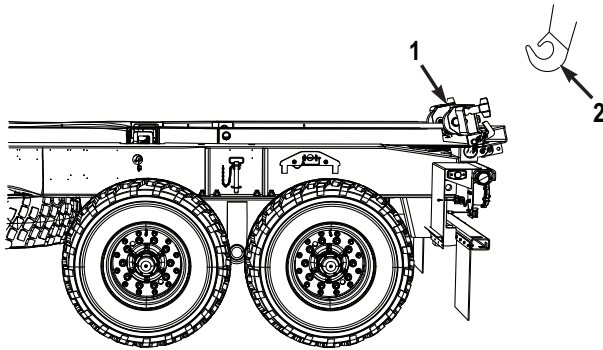


Figure 43. Flatrack Mode to Bumper.

5. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle during backing procedures. Failure to comply may result in injury or death to personnel.

6. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
7. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
8. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

9. With the aid of an assistant, back up and position lift hook (Figure 44, Item 1) centered and directly above cart (Figure 44, Item 2).

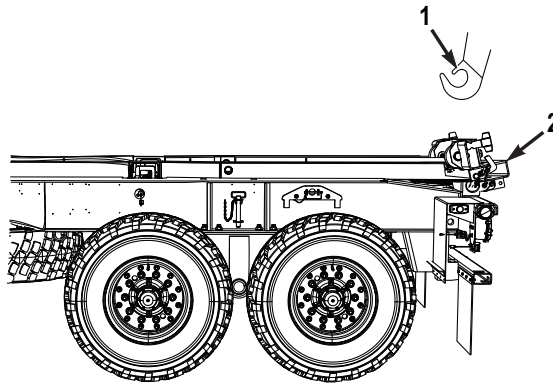
FLATRACK MODE TO BUMPER - Continued

Figure 44. Flatrack Mode to Bumper.

10. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
11. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
12. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
13. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle when attaching cart loading sling. Stand on trailer when attaching cart loading sling. Failure to comply may result in injury or death to personnel.

14. Install cart loading sling (Figure 45, Item 1) on cart (Figure 45, Item 3).

FLATRACK MODE TO BUMPER - Continued

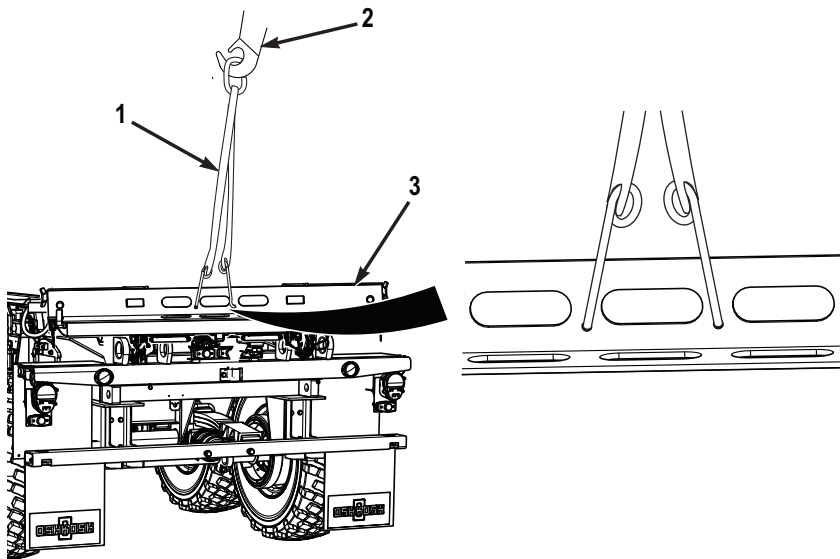


Figure 45. Flatrack Mode to Bumper.

15. Attach cart loading sling (Figure 45, Item 1) to lift hook (Figure 45, Item 2) and remove slack in cart loading sling (Figure 45, Item 1).
16. Shut off engine. Refer to vehicle Operator's manual (WP 0057).

WARNING

Cart weighs 433 lbs (197 kg). Do not attempt to lift or move cart without the aid of two assistants and lifting device. Failure to comply may result in serious injury or death to personnel.

NOTE

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

17. Remove two lynch pins (Figure 46, Item 3) from hitch pins (Figure 46, Item 4).

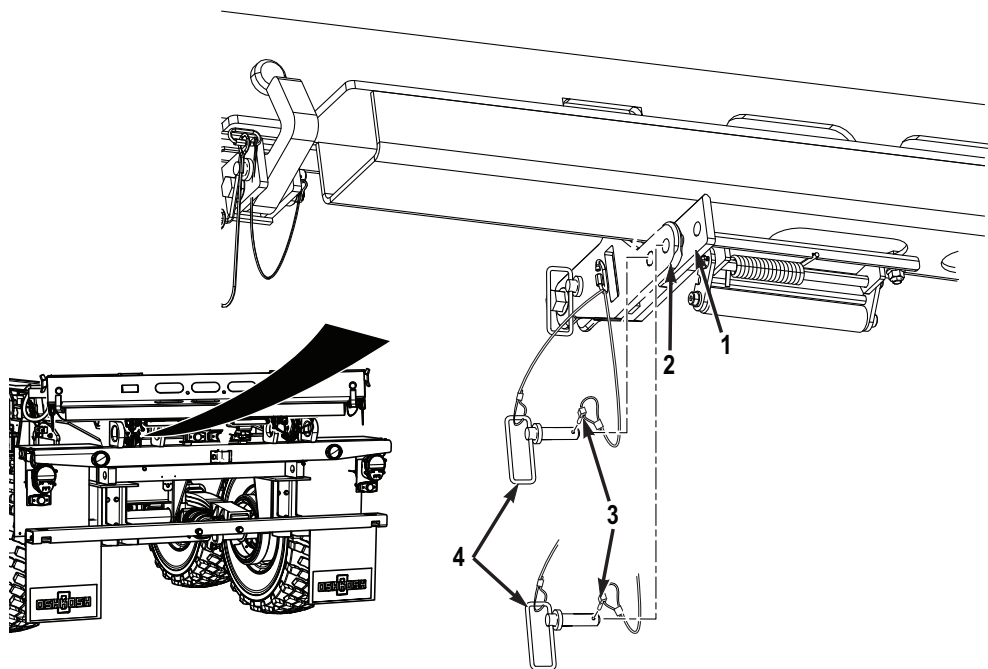
FLATRACK MODE TO BUMPER - Continued

Figure 46. Flatrack Mode to Bumper.

18. Remove two hitch pins (Figure 46, Item 4) from cart pivot bracket (Figure 46, Item 2) and cart bracket (Figure 46, Item 1).

CAUTION

After lynch pins and hitch pins are removed, set lynch pins and hitch pins on top of trailer so they are not hanging down. Failure to comply may result in damage to equipment.

19. Repeat Steps (17) and (18) for right side cart pivot bracket.
20. Start engine. Refer to vehicle Operator's manual (WP 0057).

FLATRACK MODE TO BUMPER - Continued**WARNING**

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

21. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).

CAUTION

Ensure hitch pins and lynch pins do not get hooked on trailer while lifting cart from trailer. Failure to comply may result in damage to equipment.

22. With the aid of an assistant, raise cart (Figure 47, Item 1) until cart (Figure 47, Item 1) is clear of trailer (Figure 47, Item 2).

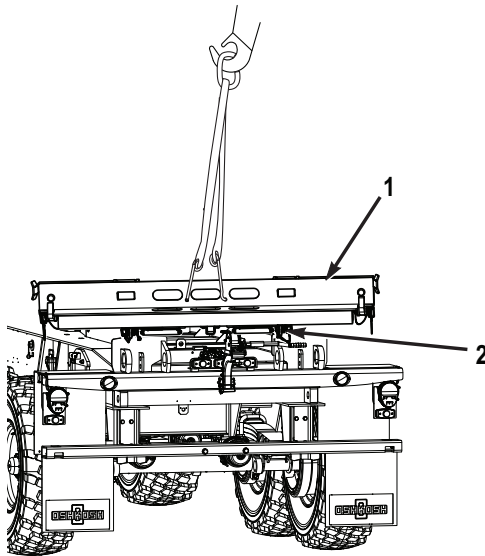


Figure 47. Flatrack Mode to Bumper.

23. Release joystick. Refer to vehicle Operator's manual (WP 0057).
24. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).

FLATRACK MODE TO BUMPER - Continued

25. Place transmission range selector to DRIVE. Refer to vehicle Operator's manual (WP 0057).
26. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
27. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
28. With the aid of an assistant, move vehicle forward until cart (Figure 47, Item 1) is no longer suspended above trailer (Figure 47, Item 2). Refer to vehicle Operator's manual (WP 0057).
29. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
30. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
31. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
32. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

33. With the aid of an assistant, move joystick to UNLOAD position and set cart (Figure 47, Item 1) on the ground. Refer to vehicle Operator's manual (WP 0057).
34. Release joystick. Refer to vehicle Operator's manual (WP 0057).
35. Shut off engine. Refer to vehicle Operator's manual (WP 0057).
36. Reposition cart (Figure 48, Item 1) so bottom rollers (Figure 48, Item 2) and rear rollers (Figure 48, Item 3) are on the ground.

FLATRACK MODE TO BUMPER - Continued

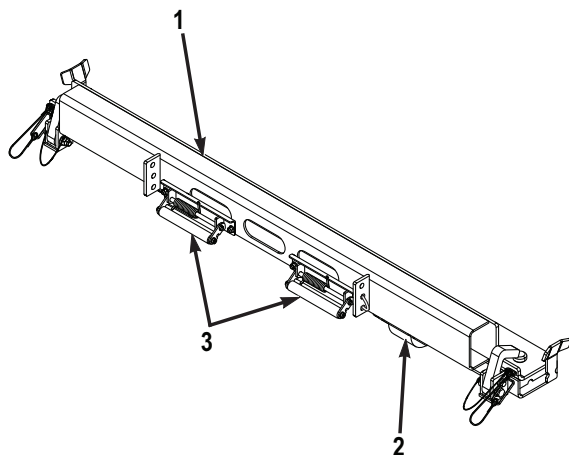


Figure 48. Flatrack Mode to Bumper.

37. Remove two nuts (Figure 49, Item 4), lockwashers (Figure 49, Item 3), washers (Figure 49, Item 2), washers (Figure 49, Item 5), and screws (Figure 49, Item 6) from bumper (Figure 49, Item 1).

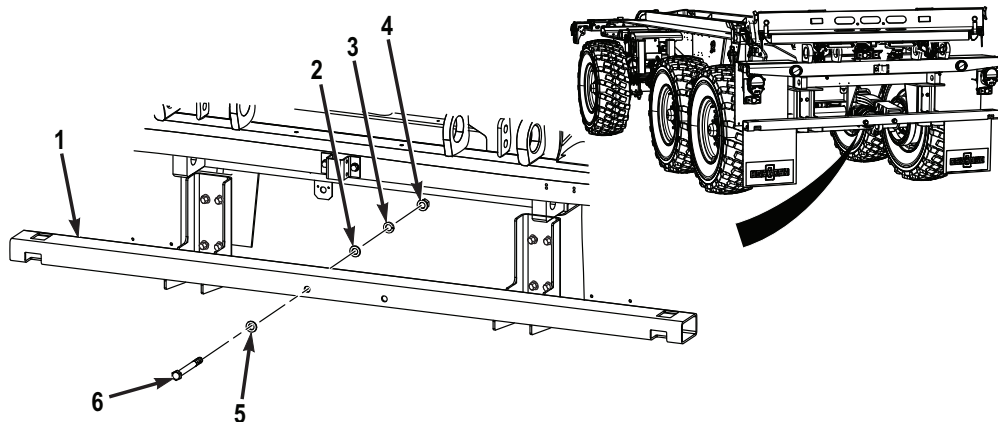


Figure 49. Flatrack Mode to Bumper.

38. Start engine. Refer to vehicle Operator's manual (WP 0057).
39. Adjust LHS hook as necessary to reposition cart loading sling (Figure 50, Item 1) on cart (Figure 50, Item 2) to lower cart bracket holes (Figure 50, Item 3). Refer to vehicle Operator's manual (WP 0057).

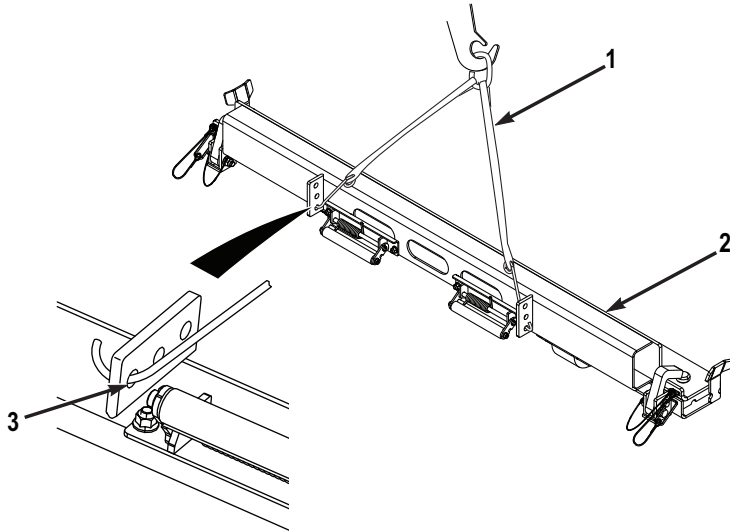
FLATRACK MODE TO BUMPER - Continued

Figure 50. Flatrack Mode to Bumper.

40. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
41. With the aid of an assistant, adjust LHS to align cart (Figure 51, Item 2) with bumper (Figure 51, Item 1) and release joystick. Refer to vehicle Operator's manual (WP 0057).

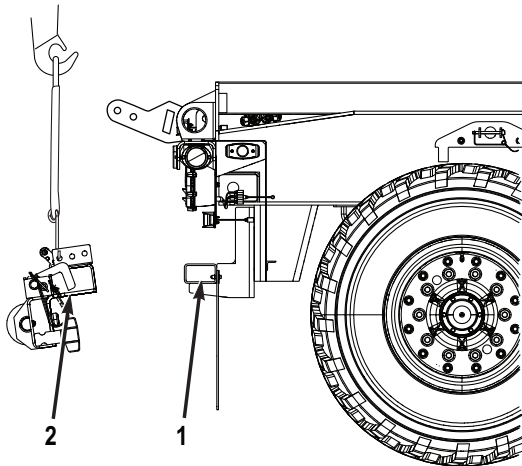


Figure 51. Flatrack Mode to Bumper.

FLATRACK MODE TO BUMPER - Continued**NOTE**

Left side and right side container locks are unlocked the same way. Left side shown.

42. Remove lynch pin (Figure 52, Item 2) from hitch pin (Figure 52, Item 1).

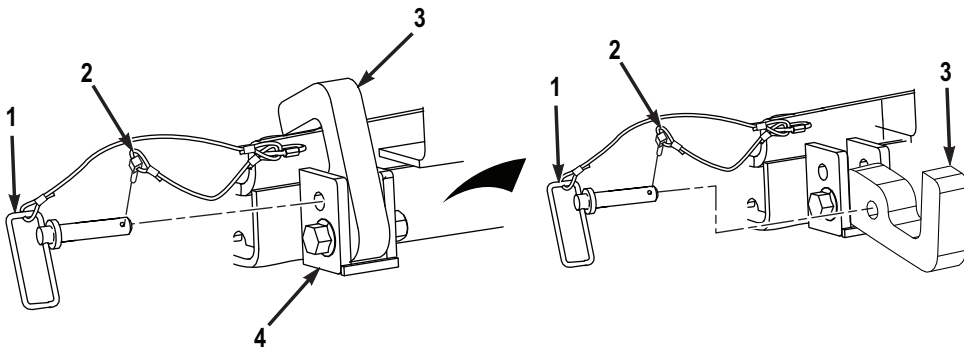


Figure 52. Flatrack Mode to Bumper.

43. Remove hitch pin (Figure 52, Item 1) from container lock bracket (Figure 52, Item 4) and container lock (Figure 52, Item 3).
44. Rotate container lock (Figure 52, Item 3) to unlocked position.
45. Install hitch pin (Figure 52, Item 1) in container lock (Figure 52, Item 3).
46. Install lynch pin (Figure 52, Item 2) in hitch pin (Figure 52, Item 1).
47. Repeat Steps (42) through (46) for right side container lock.

WARNING

Do not stand between trailer and vehicle during backing procedures.
Failure to comply may result in injury or death to personnel.

FLATRACK MODE TO BUMPER - Continued**WARNING**

Hands and fingers may get pinched while stowing cart on bumper. Watch hands while stowing cart on bumper to avoid pinching hands and fingers. Failure to comply may result in injury to personnel.

CAUTION

Ensure cart does not make contact with marker lights or composite lights. Failure to comply may result in damage to equipment.

48. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
49. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
50. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
51. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
52. With the aid of an assistant, move vehicle back until cart (Figure 53, Item 2) is in contact with bumper (Figure 53, Item 1). Refer to vehicle Operator's manual (WP 0057).

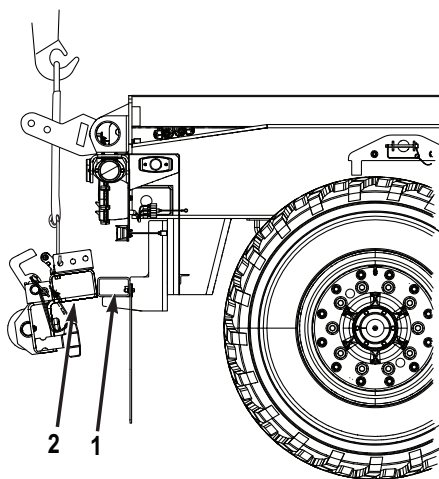


Figure 53. Flatrack Mode to Bumper.

53. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).

FLATRACK MODE TO BUMPER - Continued

54. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
55. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
56. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
57. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
58. With the aid of an assistant, raise cart (Figure 54, Item 2) until cart (Figure 54, Item 2) is slightly above bumper (Figure 54, Item 1).

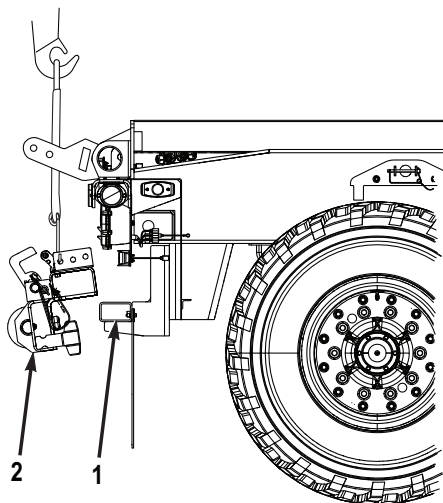


Figure 54. Flatrack Mode to Bumper.

59. Release joystick. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle during backing procedures.
Failure to comply may result in injury or death to personnel.

FLATRACK MODE TO BUMPER - Continued**WARNING**

Hands and fingers may get pinched while stowing cart on bumper. Watch hands while stowing cart on bumper to avoid pinching hands and fingers. Failure to comply may result in injury to personnel.

CAUTION

Ensure cart does not make contact with marker lights or composite lights. Failure to comply may result in damage to equipment.

60. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
61. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
62. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
63. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

64. With the aid of an assistant, move vehicle back until cart loading sling (Figure 55, Item 1) contacts trailer (Figure 55, Item 2). Refer to vehicle Operator's manual (WP 0057).

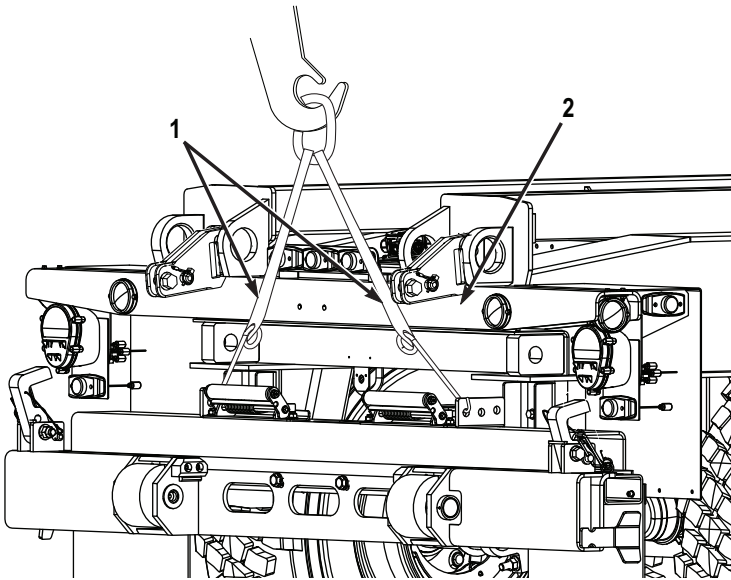
FLATRACK MODE TO BUMPER - Continued

Figure 55. Flatrack Mode to Bumper.

65. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
66. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
67. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
68. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side container locks are locked the same way. Left side shown.

69. Remove lynch pin (Figure 56, Item 2) from hitch pin (Figure 56, Item 1).

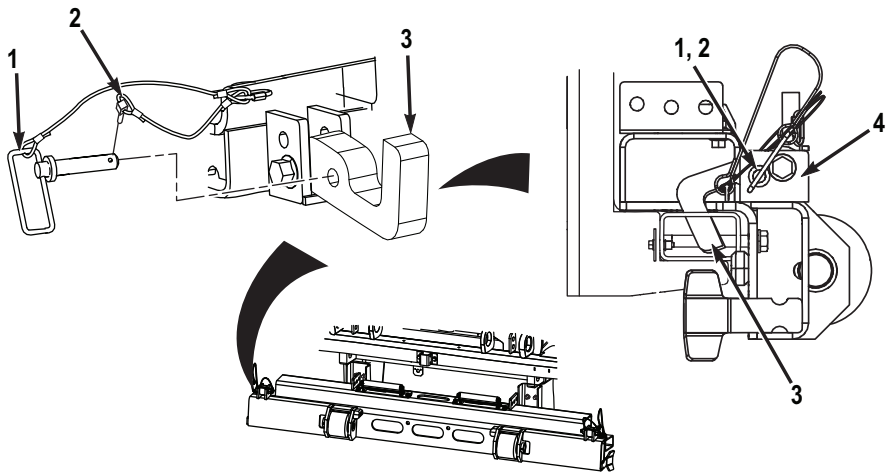
FLATRACK MODE TO BUMPER - Continued

Figure 56. Flatrack Mode to Bumper.

70. Remove hitch pin (Figure 56, Item 1) from container lock (Figure 56, Item 3).

NOTE

Cart may need to be adjusted by hand to allow container lock to be rotated to locked position.

71. Rotate container lock (Figure 56, Item 3) to locked position.
72. Install hitch pin (Figure 56, Item 1) in container lock bracket (Figure 56, Item 4) and container lock (Figure 56, Item 3).
73. Install lynch pin (Figure 56, Item 2) in hitch pin (Figure 56, Item 1).
74. Repeat Steps (69) through (73) for right side container lock.

WARNING

Do not stand between trailer and vehicle when removing cart loading sling. Stand on trailer when removing cart loading sling. Failure to comply may result in injury or death to personnel.

75. With the aid of an assistant, lower lift hook (Figure 57, Item 2) and remove cart loading sling (Figure 57, Item 1) from lift hook (Figure 57, Item 2).

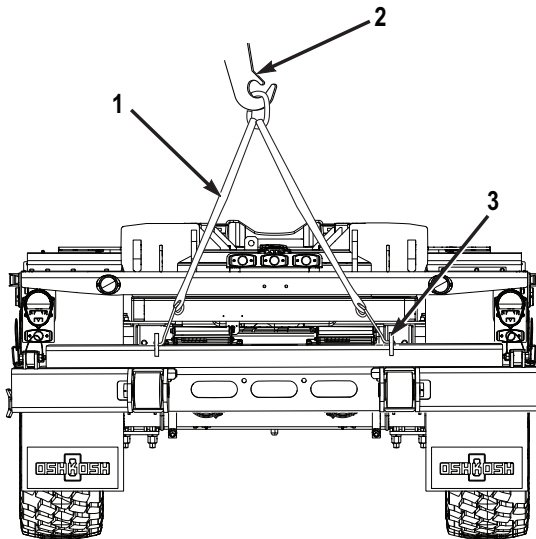
FLATRACK MODE TO BUMPER - Continued

Figure 57. Flatrack Mode to Bumper.

76. Drive vehicle forward and stow LHS. Refer to vehicle Operator's manual (WP 0057).
77. Remove cart loading sling (Figure 57, Item 1) from cart brackets (Figure 57, Item 3).

WARNING

Do not go under cart when securing cart to bumper. Failure to comply may result in injury or death to personnel.

78. Secure cart (Figure 58, Item 5) to bumper (Figure 58, Item 4) with two washers (Figure 58, Item 7), screws (Figure 58, Item 6), washers (Figure 58, Item 1), lockwashers (Figure 58, Item 2), and nuts (Figure 58, Item 3). Tighten nuts.

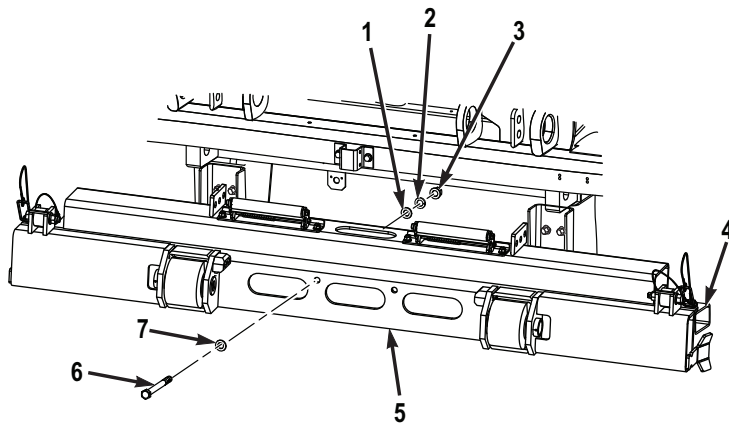
FLATRACK MODE TO BUMPER - Continued

Figure 58. Flatrack Mode to Bumper.

NOTE

Left side and right side container locks are locked the same way. Left side shown.

79. Remove lynch pin (Figure 59, Item 3) from hitch pin (Figure 59, Item 4).

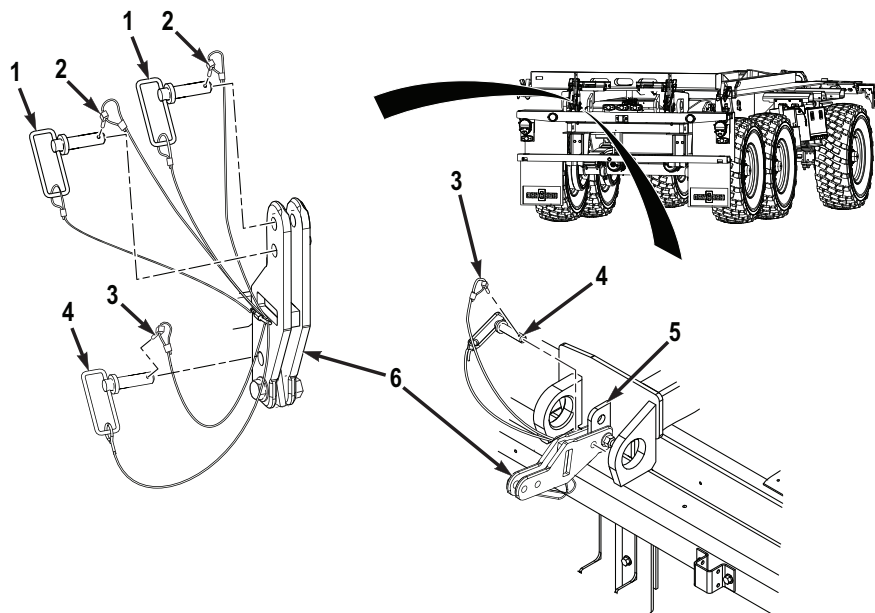
FLATRACK MODE TO BUMPER - Continued

Figure 59. Flatrack Mode to Bumper.

80. Remove hitch pin (Figure 59, Item 4) from cart pivot bracket (Figure 59, Item 6).
81. Position cart pivot bracket (Figure 59, Item 6) in the up position and install hitch pin (Figure 59, Item 4) in cart pivot bracket (Figure 59, Item 6) and trailer bracket (Figure 59, Item 5).
82. Install lynch pin (Figure 59, Item 3) in hitch pin (Figure 59, Item 4).
83. Install two hitch pins (Figure 59, Item 1) in cart pivot bracket (Figure 59, Item 6).
84. Install two lynch pins (Figure 59, Item 2) in hitch pins (Figure 59, Item 1).
85. Repeat Steps (79) through (84) for right side pivot bracket.
86. Notify field maintenance at earliest opportunity to replace lockwashers and tighten nuts securing cart to bumper.

END OF TASK

BUMPER TO FLATRACK MODE**NOTE**

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

1. Remove two lynch pins (Figure 60, Item 2) from hitch pins (Figure 60, Item 1).

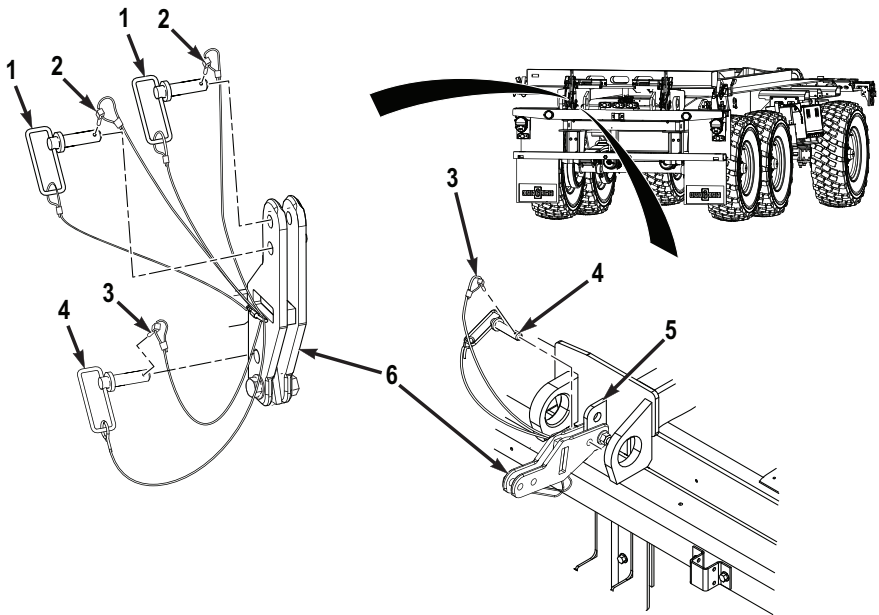


Figure 60. Bumper to Flatrack Mode.

2. Remove two hitch pins (Figure 60, Item 1) from cart pivot bracket (Figure 60, Item 6).
3. Remove lynch pin (Figure 60, Item 3) from hitch pin (Figure 60, Item 4).
4. Remove hitch pin (Figure 60, Item 4) from cart pivot bracket (Figure 60, Item 6) and trailer bracket (Figure 60, Item 5).

BUMPER TO FLATRACK MODE - Continued**WARNING**

Hands may get pinched if cart pivot bracket falls while removing pin. Support cart pivot bracket while removing pin to avoid pinching fingers between trailer and cart pivot bracket. Failure to comply may result in injury to personnel.

5. Rotate cart pivot bracket (Figure 60, Item 6) down.
6. Install hitch pin (Figure 60, Item 4) in cart pivot bracket (Figure 60, Item 6).
7. Install lynch pin (Figure 60, Item 3) in hitch pin (Figure 60, Item 4).

CAUTION

After lynch pins and hitch pins are removed, set lynch pins and hitch pins on top of trailer so they are not hanging down. Failure to comply may result in damage to equipment.

8. Repeat Steps (1) through (7) for right side cart pivot bracket.
9. Attach cart loading sling (Figure 61, Item 1) in two rear most holes on cart bracket (Figure 61, Item 2).

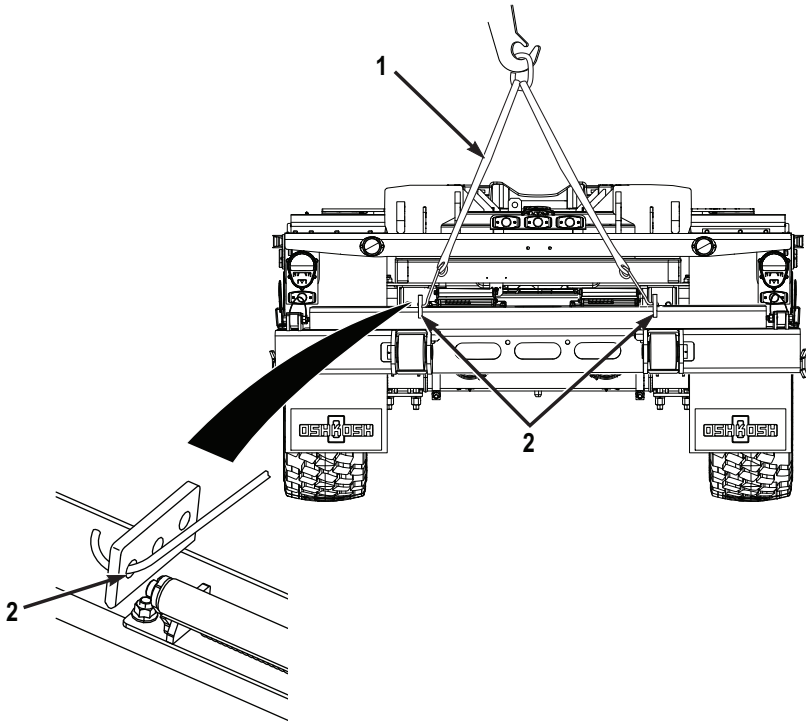
BUMPER TO FLATRACK MODE - Continued

Figure 61. Bumper to Flatrack Mode.

WARNING

Do not go under cart when removing hardware securing cart to bumper.
Failure to comply may result in injury or death to personnel.

10. Remove two nuts (Figure 62, Item 3), lockwashers (Figure 62, Item 2), washers (Figure 62, Item 1), screws (Figure 62, Item 6), and washers (Figure 62, Item 7) from bumper (Figure 62, Item 4) and cart (Figure 62, Item 5).

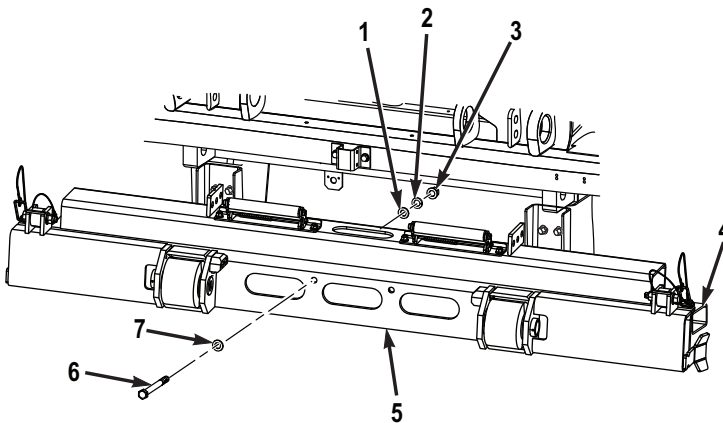
BUMPER TO FLATRACK MODE - Continued

Figure 62. Bumper to Flatrack Mode.

11. Start engine. Refer to vehicle Operator's manual (WP 0057).
12. Turn hydraulic selector switch to AUTO position. Refer to vehicle Operator's manual (WP 0057).

WARNING

- Check for overhead power lines or other obstructions before attempting LHS operation. Failure to comply may result in injury or death to personnel.
 - Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in injury or death to personnel.
13. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
 14. With the aid of an assistant, release joystick when lift hook (Figure 63, Item 1) is level with vehicle bumper (Figure 63, Item 2). Refer to vehicle Operator's manual (WP 0057).

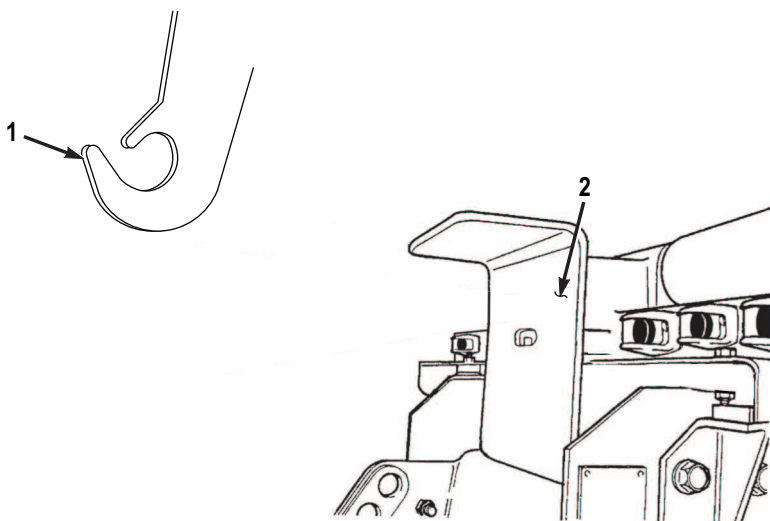
BUMPER TO FLATRACK MODE - Continued

Figure 63. Bumper to Flatrack Mode.

15. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle during backing procedures.
Failure to comply may result in injury or death to personnel.

16. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
17. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
18. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

BUMPER TO FLATRACK MODE - Continued**NOTE**

One assistant should be on trailer to assist ground guide and vehicle operator when centering lift hook behind trailer.

19. With the aid of two assistants, back up and position lift hook (Figure 64, Item 2) centered and behind trailer (Figure 64, Item 3).

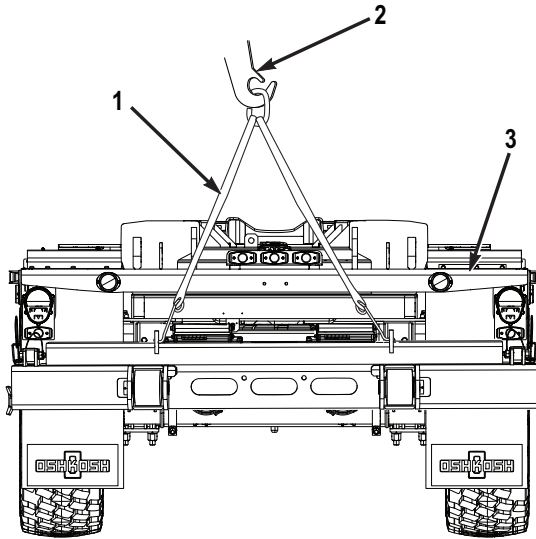


Figure 64. Bumper to Flatrack Mode.

20. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
21. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
22. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
23. Release service brake. Refer to vehicle Operator's manual (WP 0057).

WARNING

Do not stand between trailer and vehicle when attaching cart loading sling. Stand on trailer when attaching cart loading sling. Failure to comply may result in injury or death to personnel.

BUMPER TO FLATRACK MODE - Continued

24. Attach cart loading sling (Figure 64, Item 1) to lift hook (Figure 64, Item 2).
25. Move joystick to LOAD position until all slack is out of cart loading sling (Figure 64, Item 1). Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side container locks are unlocked the same way. Left side shown.

26. Remove lynch pin (Figure 65, Item 2) from hitch pin (Figure 65, Item 1).

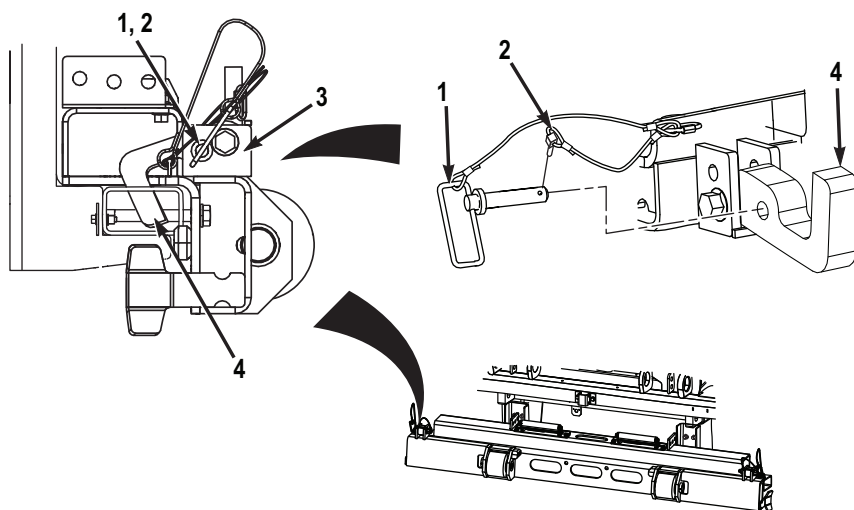


Figure 65. Bumper to Flatrack Mode.

27. Remove hitch pin (Figure 65, Item 1) from container bracket (Figure 65, Item 3) and container lock (Figure 65, Item 4).
28. Rotate container lock (Figure 65, Item 4) to unlocked position.
29. Install hitch pin (Figure 65, Item 1) in container lock (Figure 65, Item 4).
30. Install lynch pin (Figure 65, Item 2) in hitch pin (Figure 65, Item 1).
31. Repeat Steps (26) through (30) for right side container lock.

BUMPER TO FLATRACK MODE - Continued**WARNING**

Hands and fingers may get pinched by cart while sliding cart off bumper. Watch hands while removing cart from bumper to avoid pinching hands and fingers. Failure to comply may result in injury to personnel.

CAUTION

Ensure cart does not make contact with marker lights or composite lights. Failure to comply may result in damage to equipment.

32. With the aid of an assistant, slide cart (Figure 66, Item 2) off bumper (Figure 66, Item 1).

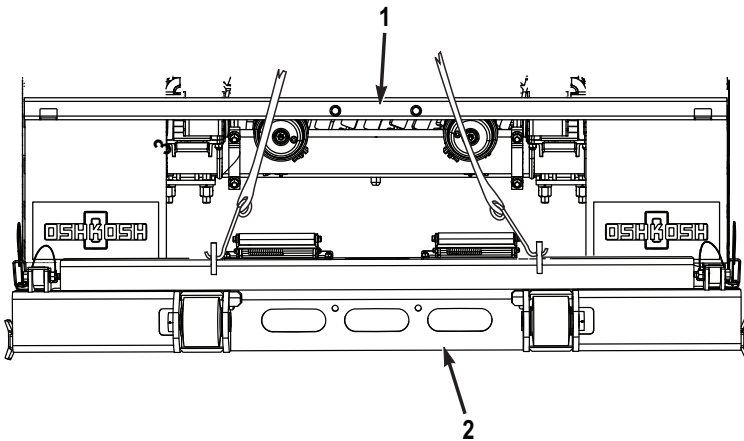


Figure 66. Bumper to Flatrack Mode.

33. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
34. Place transmission range selector to DRIVE. Refer to vehicle Operator's manual (WP 0057).
35. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
36. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
37. With the aid of an assistant, move vehicle forward approximately 3 ft (8 cm). Refer to vehicle Operator's manual (WP 0057).

BUMPER TO FLATRACK MODE - Continued

38. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
39. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
40. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
41. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

42. Move joystick to UNLOAD position and set cart (Figure 66, Item 2) on the ground. Continue to lower lift hook until lift hook is approximately 12 in. (305 mm) above cart (Figure 66, Item 2). Refer to vehicle Operator's manual (WP 0057).
43. Shut off engine. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side container locks are locked the same way. Left side shown.

44. Remove lynch pin (Figure 67, Item 2) from hitch pin (Figure 67, Item 1).

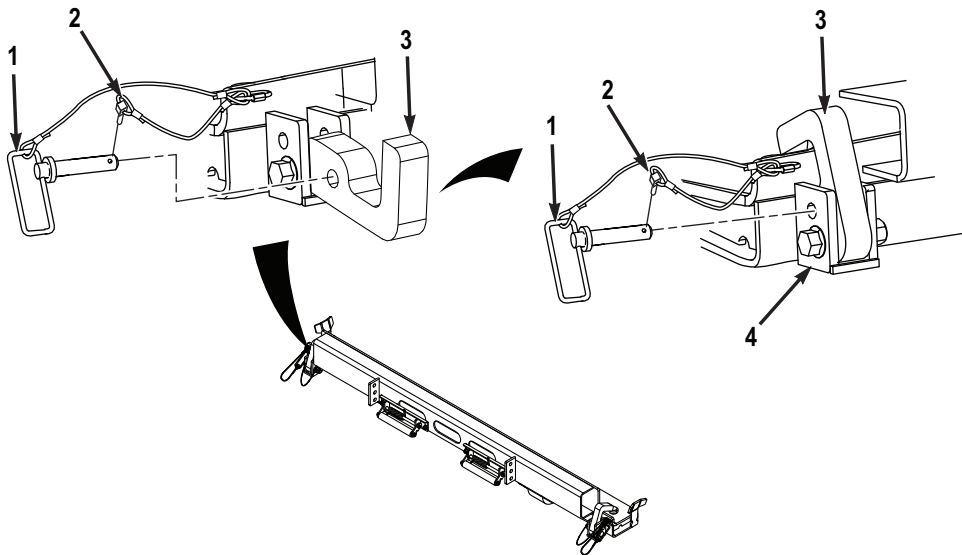
BUMPER TO FLATRACK MODE - Continued

Figure 67. Bumper to Flatrack Mode.

45. Remove hitch pin (Figure 67, Item 1) from container lock (Figure 67, Item 3).
46. Rotate container lock (Figure 67, Item 3) to locked position and install hitch pin (Figure 67, Item 1) in container lock bracket (Figure 67, Item 4) and container lock (Figure 67, Item 3).
47. Install lynch pin (Figure 67, Item 2) in hitch pin (Figure 67, Item 1).
48. Repeat Steps (44) through (47) for right side container lock.
49. Reposition cart (Figure 68, Item 1) so bottom rollers (Figure 68, Item 2) and rear rollers (Figure 68, Item 3) are on the ground.

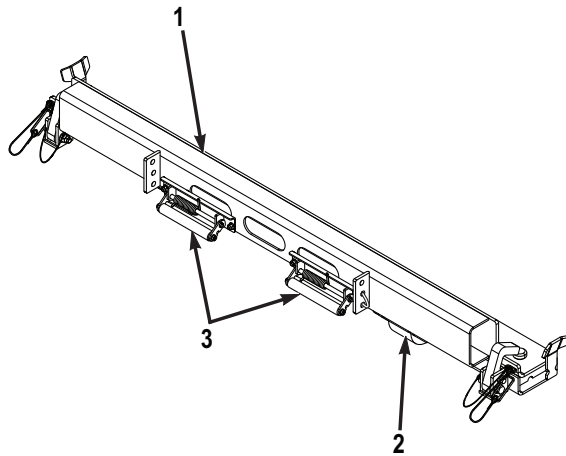
BUMPER TO FLATRACK MODE - Continued

Figure 68. Bumper to Flatrack Mode.

50. Reposition cart loading sling (Figure 69, Item 3) from upper cart bracket holes (Figure 69, Item 2) and install cart loading sling on cart (Figure 69, Item 1) in cart holes (Figure 69, Item 4).

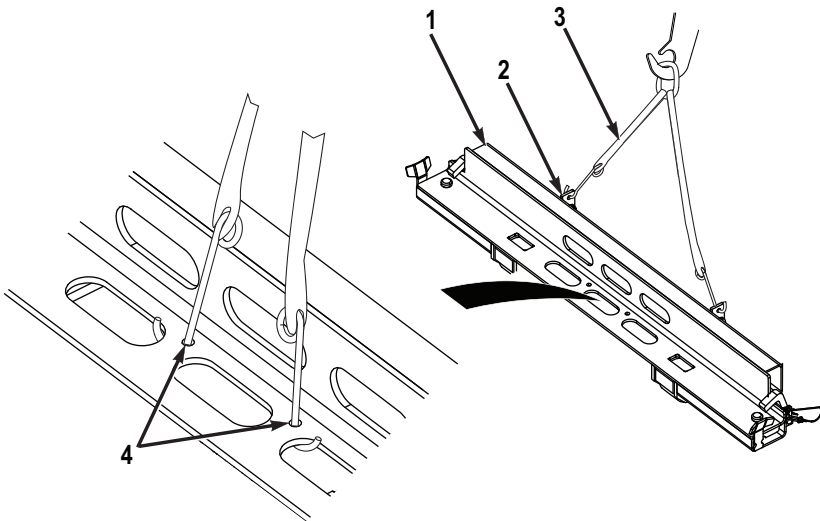


Figure 69. Bumper to Flatrack Mode.

51. Start engine. Refer to vehicle Operator's manual (WP 0057).

BUMPER TO FLATRACK MODE - Continued

52. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
53. With the aid of an assistant, raise cart (Figure 70, Item 1) until cart (Figure 70, Item 1) is above trailer (Figure 70, Item 2).

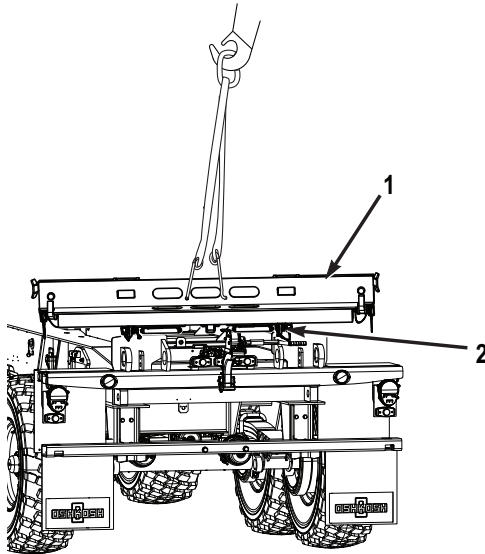


Figure 70. Bumper to Flatrack Mode.

54. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
55. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
56. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
57. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

58. With the aid of an assistant, back up and place cart (Figure 71, Item 1) over two cart pivot brackets (Figure 71, Item 2).

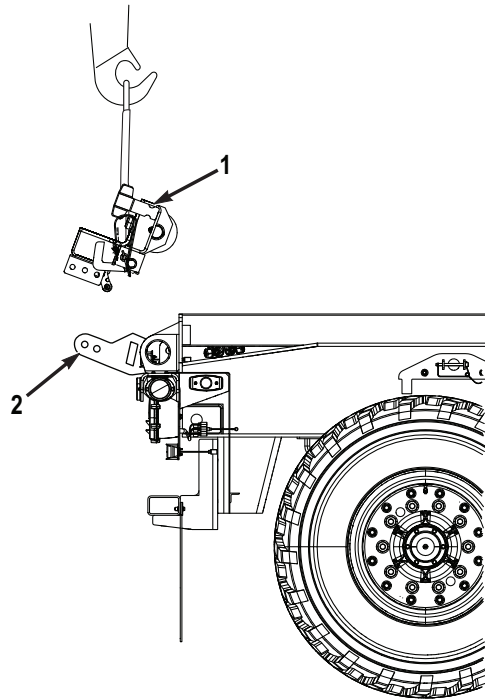
BUMPER TO FLATRACK MODE - Continued

Figure 71. Bumper to Flatrack Mode.

59. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
60. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
61. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).
62. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

BUMPER TO FLATRACK MODE - Continued**WARNING**

Do not hold pivot bracket or put hand between pivot bracket and cart when moving cart. Hands and fingers may be pinched between pivot bracket and cart as cart is being moved. Failure to comply may result in injury or death to personnel.

63. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
64. With the aid of an assistant, lower cart (Figure 72, Item 1) onto cart pivot brackets (Figure 72, Item 2) and align cart pivot brackets (Figure 72, Item 2) with cart brackets (Figure 72, Item 3).

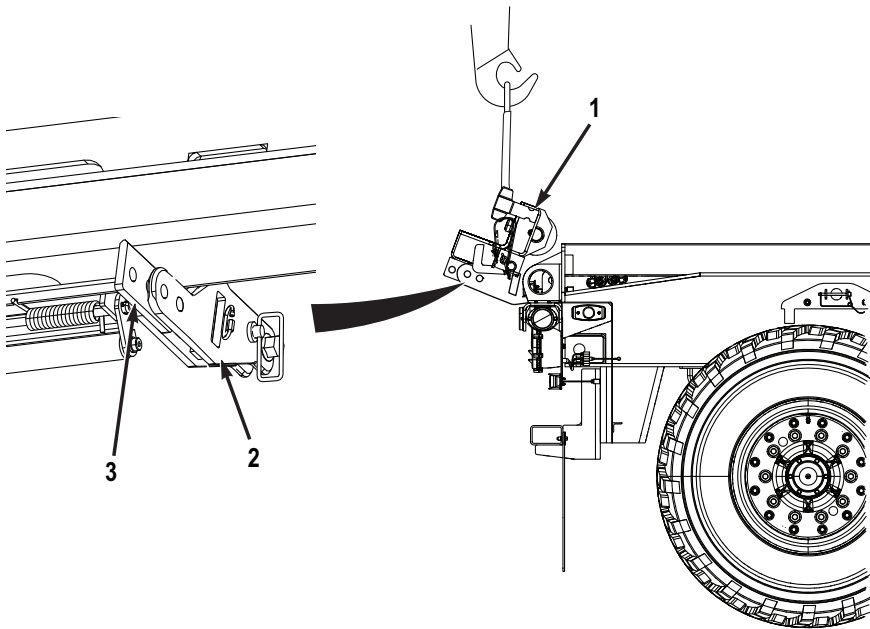


Figure 72. Bumper to Flatrack Mode.

65. Shut off engine. Refer to vehicle Operator's manual (WP 0057).

BUMPER TO FLATRACK MODE - Continued**NOTE**

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

66. Align two bottom holes in cart bracket (Figure 73, Item 1) with holes in cart pivot bracket (Figure 73, Item 2) and install two hitch pins (Figure 73, Item 4) in cart pivot bracket (Figure 73, Item 2) and cart bracket (Figure 73, Item 1).

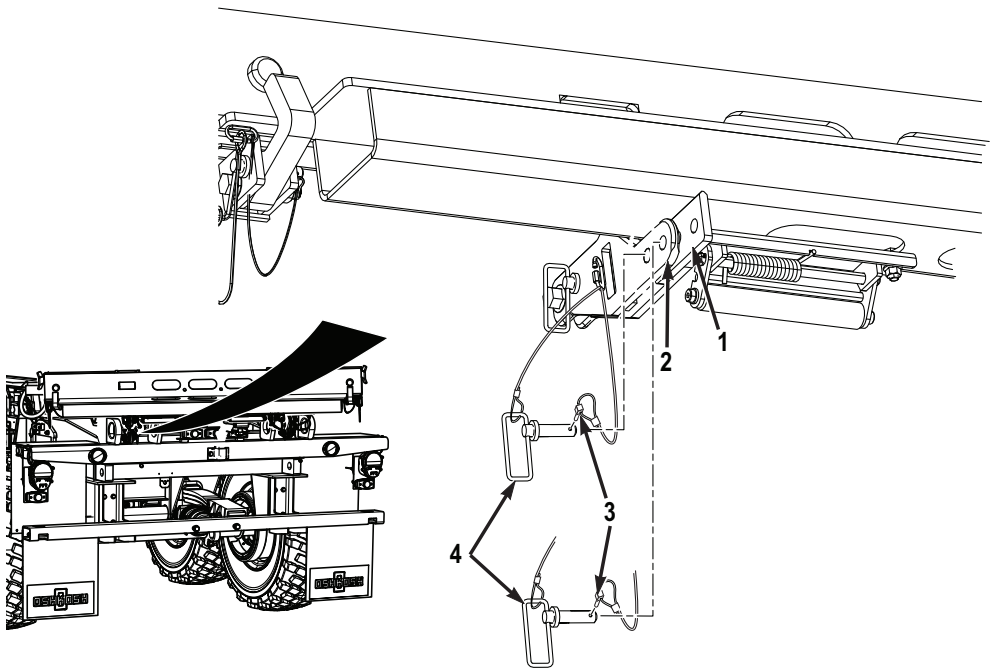


Figure 73. Bumper to Flatrack Mode.

67. Install two lynch pins (Figure 73, Item 3) in hitch pins (Figure 73, Item 4).
68. Repeat Steps (66) and (67) for right side cart pivot bracket.
69. Start engine. Refer to vehicle Operator's manual (WP 0057).

BUMPER TO FLATRACK MODE - Continued**WARNING**

Do not stand between trailer and vehicle when removing cart loading sling. Stand on trailer when removing cart loading sling. Failure to comply may result in injury or death to personnel.

70. With the aid of an assistant, lower lift hook (Figure 74, Item 2) and remove cart loading sling (Figure 74, Item 1) from lift hook (Figure 74, Item 2).

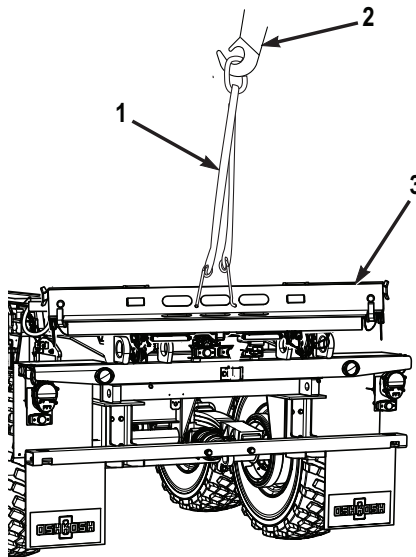


Figure 74. Bumper to Flatrack Mode.

71. Remove cart loading sling (Figure 74, Item 1) from cart (Figure 74, Item 3).
72. Drive vehicle forward and stow LHS. Refer to vehicle Operator's manual (WP 0057).
73. Install two washers (Figure 75, Item 5), screws (Figure 75, Item 6), washers (Figure 75, Item 2), lockwashers (Figure 75, Item 3), and nuts (Figure 75, Item 4) on bumper (Figure 75, Item 1).

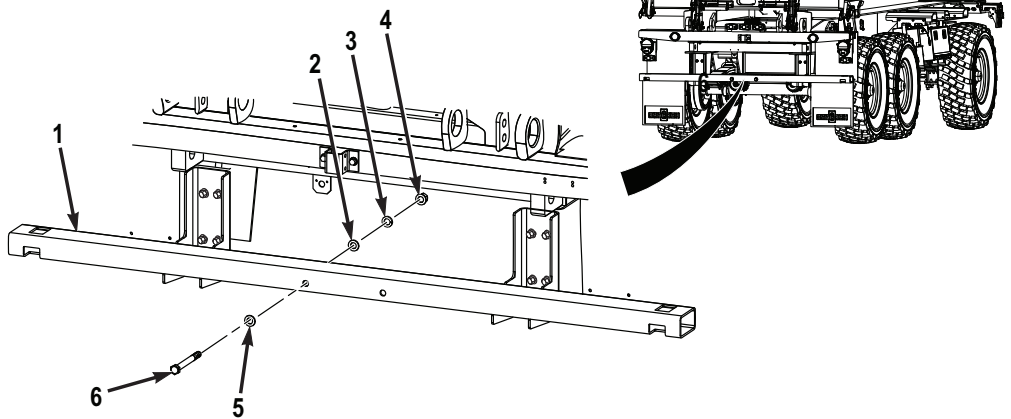
BUMPER TO FLATRACK MODE - Continued

Figure 75. Bumper to Flatrack Mode.

74. Notify field maintenance at earliest opportunity to replace lockwashers and tighten nuts that secure cart to bumper.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE TRANSFER CONTAINER WITH CHU

INITIAL SETUP:

Personnel Required
(3)

References

WP 0003
WP 0011
WP 0015
WP 0024

References (cont.)

WP 0025
WP 0054
WP 0057

Equipment Condition

Wheels chocked. (WP 0020)
Apply parking brakes. (WP 0016)

TRANSFER CONTAINER FROM VEHICLE TO TRAILER

WARNING



In order to maintain control of container, do not run vehicle in high idle when using LHS to load container onto trailer. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**WARNING**

- Prior to and during the load cycle, all personnel should stay clear of LHS and container. Failure to comply may result in injury or death to personnel.
- Do not attempt loading operations on a side slope greater than 5 degrees and/or fore/aft slope greater than 20 percent. Before attempting to load on slopes you must determine if ground surface conditions permit safe loading operations. Slopes that contain snow, ice, loose gravel, or sand may not permit safe loading. Failure to comply may result in injury or death to personnel.

CAUTION

- Trailer drawbar must be fully retracted and lowered before starting the loading process. Failure to comply may result in damage to equipment.
- Use extreme caution when loading container with side doors. Container must remain centered and doors must be closed at all times. Failure to comply may result in damage to equipment.

1. Fully retract and lower trailer drawbar (WP 0011) and stow cables.
2. Unstow and install ISO locks (WP 0024).
3. Remove two crank handles (Figure 1, Item 1) from BII stowage box (Figure 1, Item 2).

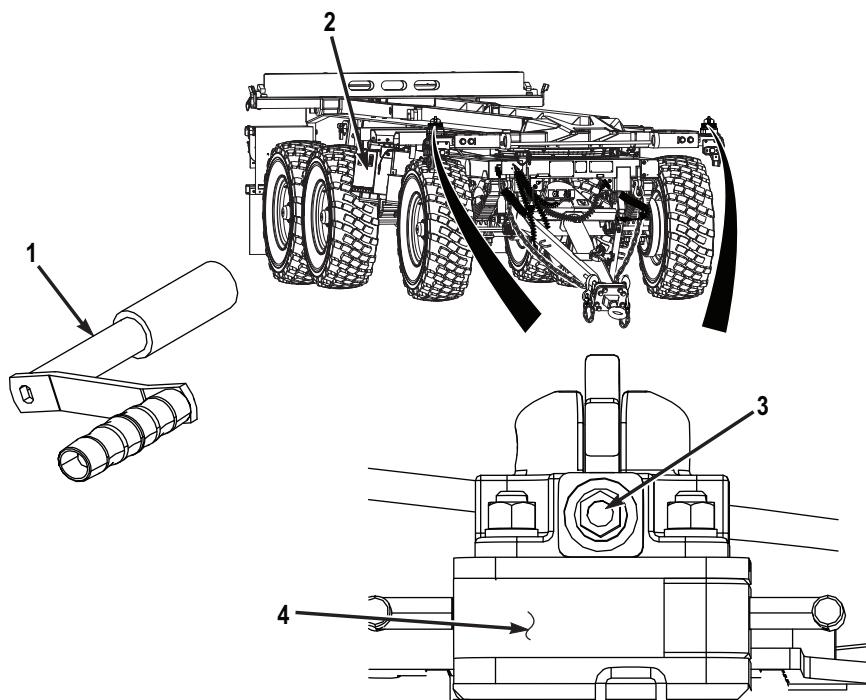
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 1. Transfer Container From Vehicle To Trailer With CHU.

4. With the aid of a crank handle (Figure 1, Item 1), rotate ISO lock adjustment screws (Figure 1, Item 3) counterclockwise until ISO locks (Figure 1, Item 4) are fully unlocked.
5. Stow two crank handles (Figure 1, Item 1) in BII stowage box (Figure 1, Item 2).
6. Ensure cart is positioned in container mode (WP 0003). If it is not, position cart in container mode (WP 0025).
7. Load container on vehicle. Refer to vehicle Operator's manual (WP 0057).
8. Start engine. Refer to vehicle Operator's manual (WP 0057).
9. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
10. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
11. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
12. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**WARNING**

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

WARNING

Do not stand between trailer and vehicle during backing procedures. Failure to comply may result in injury or death to personnel.

CAUTION

- Vehicle must be aligned with trailer. Failure to comply may result in damage to equipment.
- Both of the bumper points must be under the vehicle bumper plate flange and at least one of the bumper points must contact the bumper plate. The bumper point not contacting the bumper plate cannot exceed 0.5 in. (12.7 mm) distance from bumper plate or container will not load properly. Failure to comply may result in damage to equipment.

13. With the aid of an assistant, back up vehicle so that trailer bumper (Figure 2, Item 1) is under bumper plate flange (Figure 2, Item 2) and is in contact with bumper plate (Figure 2, Item 3). Refer to vehicle Operator's manual (WP 0057).

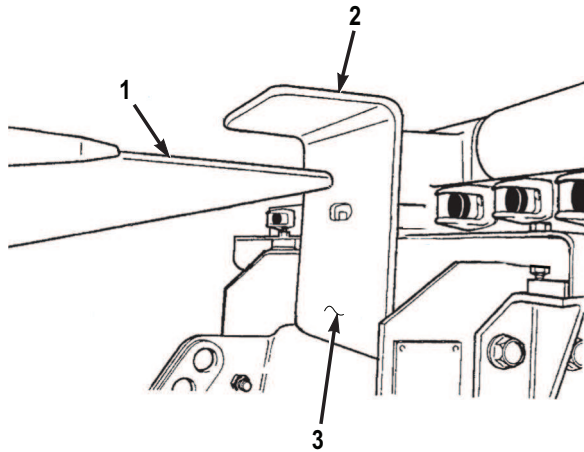
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 2. Transfer Container From Vehicle To Trailer With CHU.

14. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
15. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
16. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

17. Remove two lynch pins (Figure 3, Item 2) from hitch pins (Figure 3, Item 1).

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

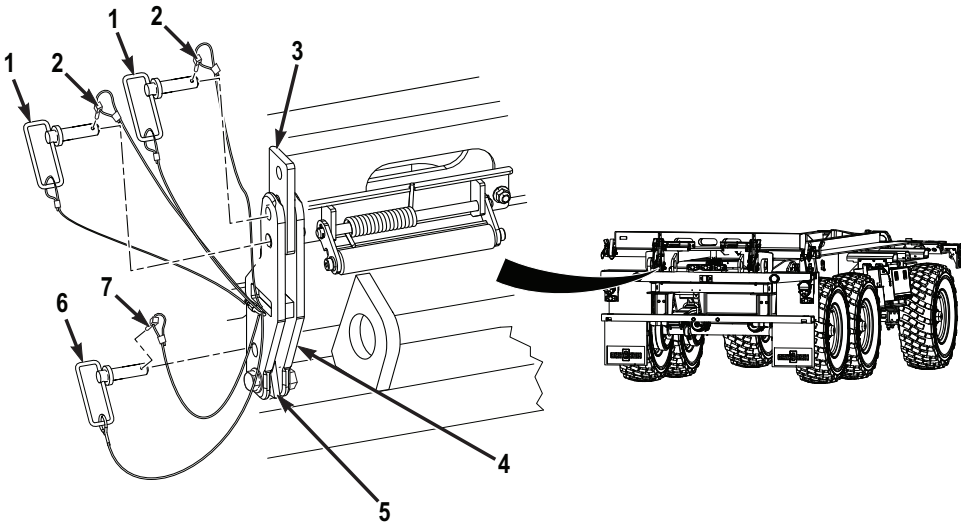


Figure 3. Transfer Container From Vehicle To Trailer With CHU.

18. Remove two hitch pins (Figure 3, Item 1) from cart pivot bracket (Figure 3, Item 4) and cart bracket (Figure 3, Item 3).
19. Remove lynch pin (Figure 3, Item 7) from hitch pin (Figure 3, Item 6).

WARNING

Hands may get pinched if cart pivot bracket falls while removing pin. Support cart pivot bracket while removing pin to avoid pinching fingers between trailer and cart pivot bracket. Failure to comply may result in injury to personnel.

20. Remove hitch pin (Figure 3, Item 6) from cart pivot bracket (Figure 3, Item 4) and trailer bracket (Figure 3, Item 5).
21. Rotate cart pivot bracket (Figure 3, Item 4) down.
22. Repeat Steps (17) through (21) for right side cart pivot bracket.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**WARNING**

Do not hold pivot bracket or put hand between pivot bracket and cart when moving cart. Hands and fingers may be pinched between pivot bracket and cart as cart is being moved. Failure to comply may result in injury or death to personnel.

CAUTION

Ensure cart path is free of debris prior to moving cart. Failure to comply may result in damage to equipment.

NOTE

Ensure flat rack locks are in unlocked position (WP 0015).

23. With the aid of an assistant, roll cart (Figure 4, Item 2) from rear of trailer (Figure 4, Item 1) to front of trailer (Figure 4, Item 1) against two ISO locks (Figure 4, Item 3).

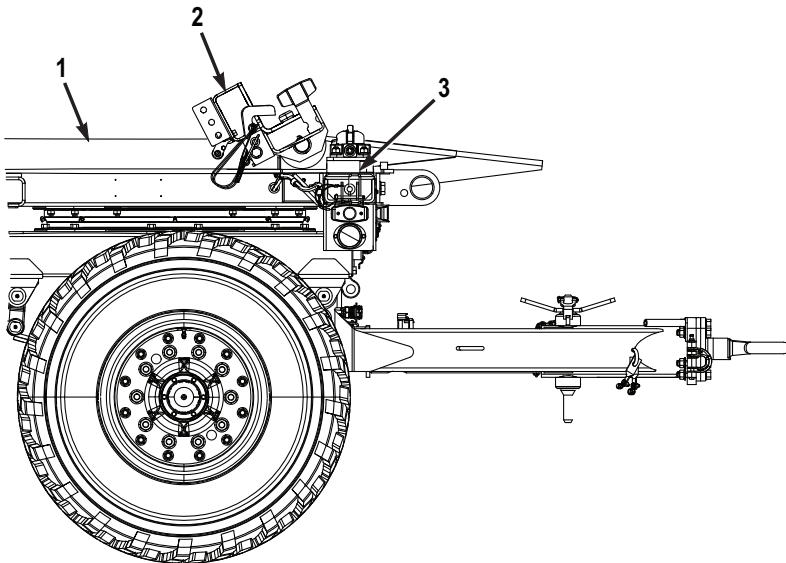


Figure 4. Transfer Container From Vehicle To Trailer With CHU.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**NOTE**

Left side and right side container locks are unlocked the same way. Left side shown.

24. Remove lynch pin (Figure 5, Item 2) from hitch pin (Figure 5, Item 1).

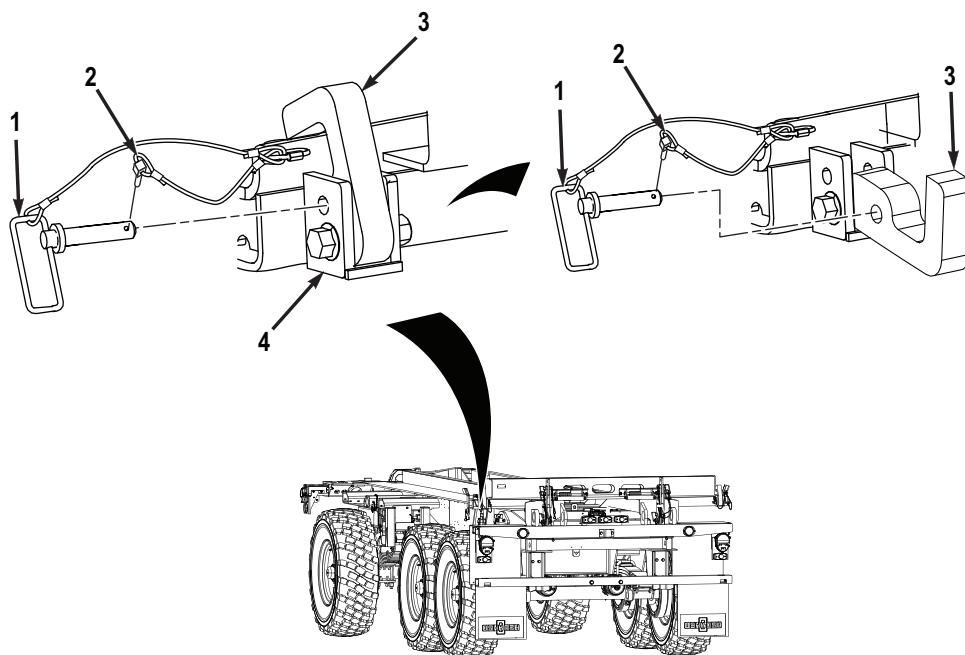
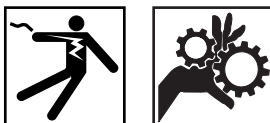


Figure 5. Transfer Container From Vehicle To Trailer With CHU.

25. Remove hitch pin (Figure 5, Item 1) from container lock bracket (Figure 5, Item 4) and container lock (Figure 5, Item 3).
26. Rotate container lock (Figure 5, Item 3) to unlocked position.
27. Install hitch pin (Figure 5, Item 1) in container lock (Figure 5, Item 3).
28. Install lynch pin (Figure 5, Item 2) in hitch pin (Figure 5, Item 1).
29. Repeat Steps (24) through (28) for right side container locks.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**WARNING**

- Check for overhead power lines or other obstructions before attempting LHS operation. Failure to comply may result in injury or death to personnel.
- Ensure all personnel are clear of the vehicle, trailer, and container during LHS operations. Failure to comply may result in injury or death to personnel.
- If adjustment of cart is needed for rear corner fittings on container to align with and clear cart pegs, stop loading operation. When adjusting cart, do not put hands between container and cart, only put your hands on container lock. After cart is properly adjusted, move away and continue loading operation. Failure to comply may result in injury or death to personnel.

CAUTION

- Ensure cart peg is aligned with bottom hole of container. Failure to comply may result in damage to equipment.
- Ensure cart is free of debris. Failure to comply may result in damage to equipment.
- Ensure back of container is free of debris. Failure to comply may result in damage to equipment.
- Ensure trailer bumper remains under vehicle bumper plate during the loading process. Failure to comply may result in damage to equipment.
- Container must be unloaded in Manual Mode. Failure to comply may result in damage to equipment.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**NOTE**

- As container is being loaded onto cart, ensure that rear corner fittings on container align with and clear top of cart pegs. This allows container to be loaded correctly onto cart. Due to variations in the level of the ground between vehicle and trailer, loading process may need to be stopped just prior to container contacting cart to allow adjustment of cart.
- If adjustment of cart is needed; stop loading process, stand at side of trailer next to cart, and use container locks as a handle to align rear corner fittings on container with cart pegs.
- If adjusting cart does not aid in aligning rear corner fittings on container with top of cart pegs, adjust vehicle CTIS tire pressure, refer to vehicle Operator's manual (WP 0057) and/or trailer tire pressure (WP 0054) until rear corner fittings on container are aligned with and clear top of cart pegs. Ensure bumper attachment remains in contact with and under vehicle bumper plate.

30. Turn hydraulic selector switch to MAN H.A. position. Refer to vehicle Operator's manual (WP 0057).
31. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
32. Unload container (Figure 6, Item 1) until container (Figure 6, Item 1) is properly seated on cart (Figure 6, Item 3) and cart pegs (Figure 6, Item 2).

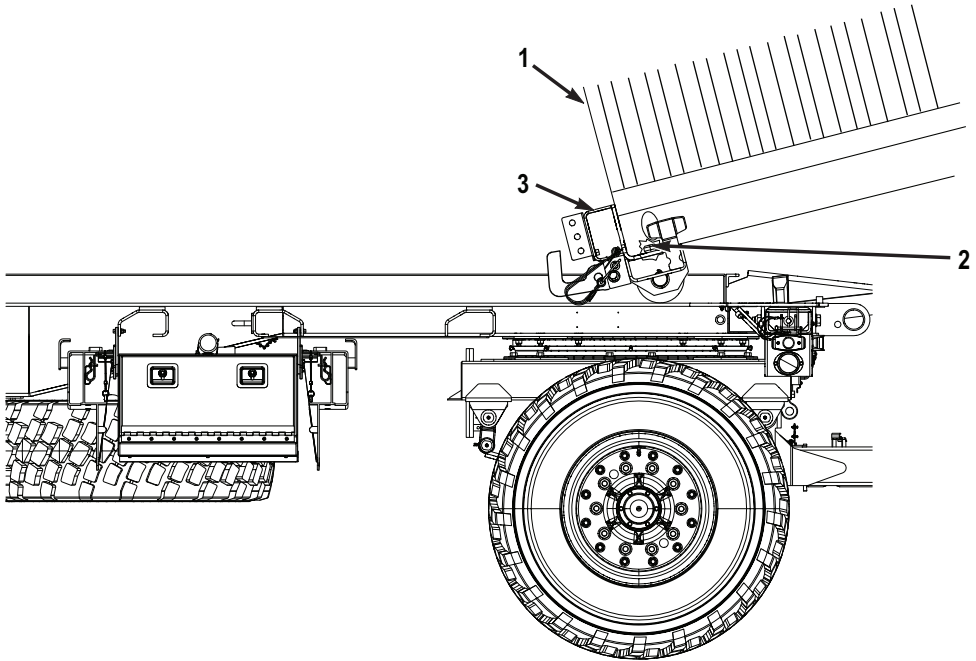
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 6. Transfer Container From Vehicle To Trailer With CHU.

33. Release joystick. Refer to vehicle Operator's manual (WP 0057).

NOTE

- Left side and right side container locks are locked the same way. Left side shown.
- If Steps (34) through (39) cannot be performed, container is not properly seated on cart.

34. Remove lynch pin (Figure 7, Item 2) from hitch pin (Figure 7, Item 1).

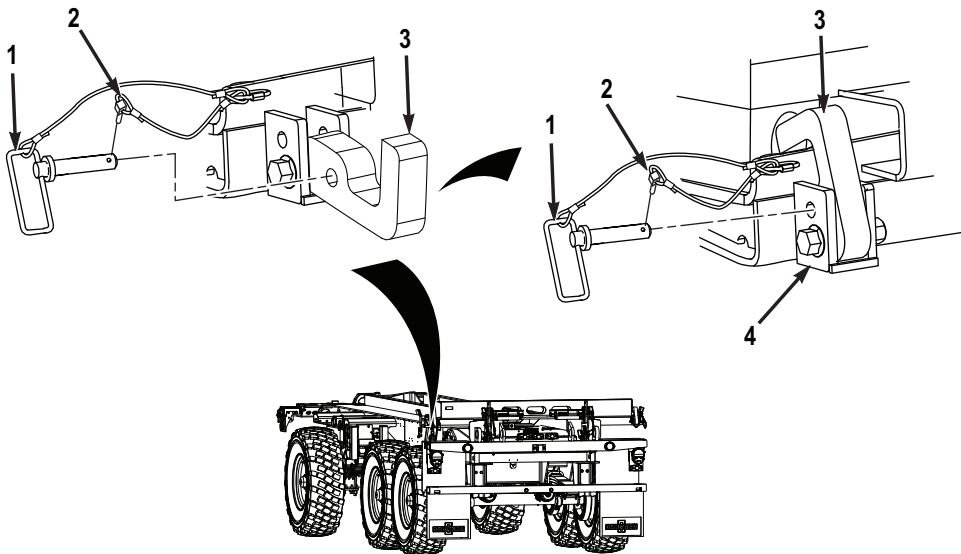
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 7. Transfer Container From Vehicle To Trailer With CHU.

35. Remove hitch pin (Figure 7, Item 1) from container lock (Figure 7, Item 3).
36. Rotate container lock (Figure 7, Item 3) to locked position.
37. Install hitch pin (Figure 7, Item 1) in container lock bracket (Figure 7, Item 4) and container lock (Figure 7, Item 3).
38. Install lynch pin (Figure 7, Item 2) in hitch pin (Figure 7, Item 1).
39. Repeat Steps (34) through (38) for right side container lock.

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

40. Move joystick to UNLOAD position and continue to unload container (Figure 8, Item 1) until hook arm is at full travel. Refer to vehicle Operator's manual (WP 0057).

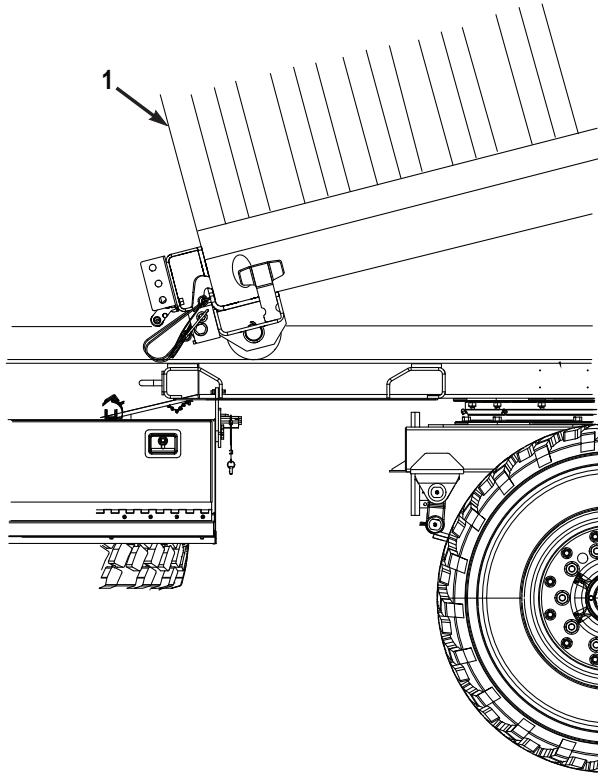
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 8. Transfer Container From Vehicle To Trailer With CHU.

41. Release joystick. Refer to vehicle Operator's manual (WP 0057).
42. Turn hydraulic selector switch to MAN M.F. position. Refer to vehicle Operator's manual (WP 0057).

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

43. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

44. Continue to unload container (Figure 9, Item 1) until cart (Figure 9, Item 3) first contacts cart stops (Figure 9, Item 2). Refer to vehicle Operator's manual (WP 0057).

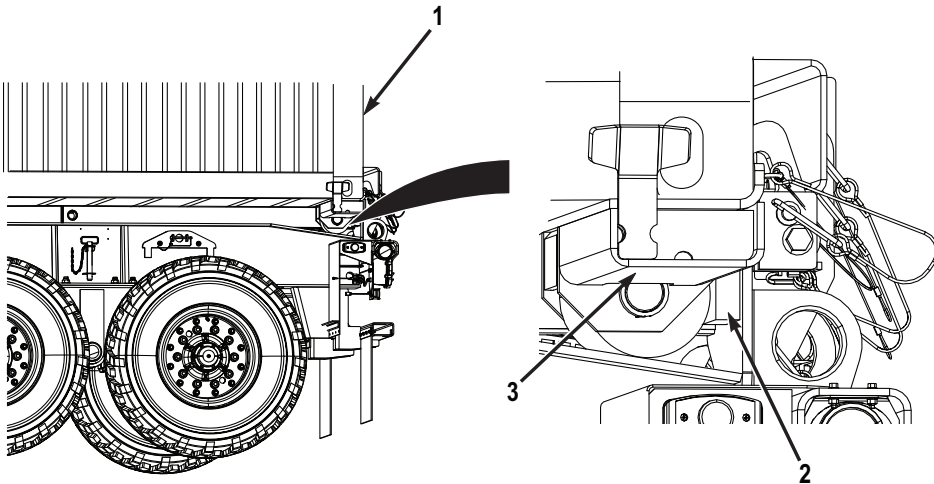


Figure 9. Transfer Container From Vehicle To Trailer With CHU.

45. Release joystick. Refer to vehicle Operator's manual (WP 0057).
46. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
47. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
48. Move joystick to UNLOAD and continue to unload container (Figure 10, Item 1) until container (Figure 10, Item 1) rests on two ISO locks (Figure 10, Item 2). Refer to vehicle Operator's manual (WP 0057).

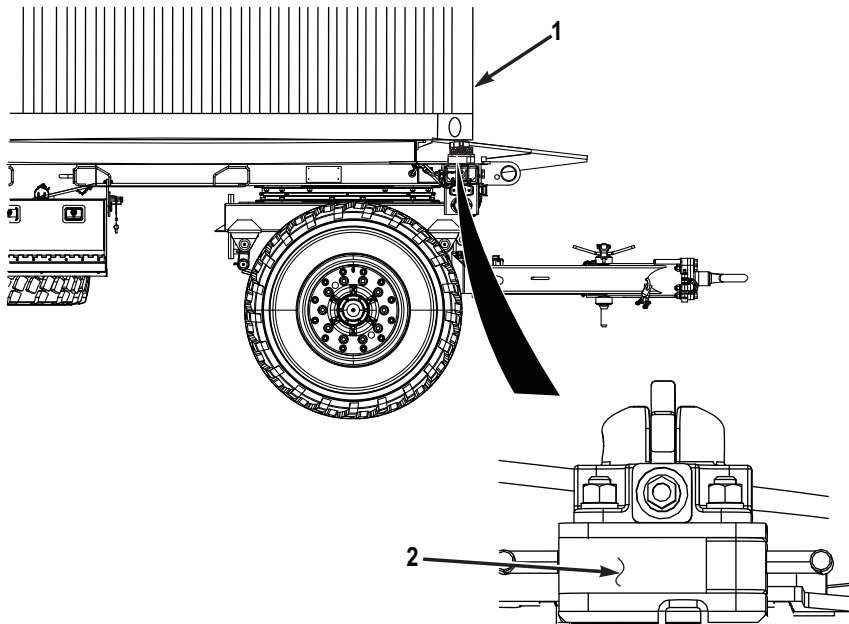
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 10. Transfer Container From Vehicle To Trailer With CHU.

49. Release joystick. Refer to vehicle Operator's manual (WP 0057).
50. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
51. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side hitch pins and lynch pins are installed the same way. Left side shown.

52. With the aid of an assistant, rotate cart pivot bracket (Figure 11, Item 4) up until two holes are aligned with bottom holes in cart bracket (Figure 11, Item 3) and install two hitch pins (Figure 11, Item 1) in cart pivot bracket (Figure 11, Item 4) and cart bracket (Figure 11, Item 3).

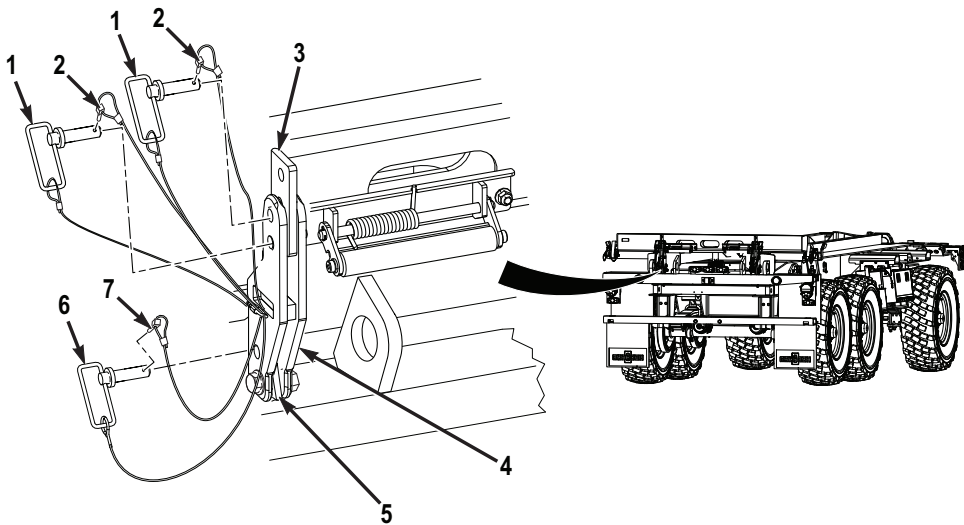
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 11. Transfer Container From Vehicle To Trailer With CHU.

53. Install two lynch pins (Figure 11, Item 2) in hitch pins (Figure 11, Item 1).
54. Install hitch pin (Figure 11, Item 6) in cart pivot bracket (Figure 11, Item 4) and trailer bracket (Figure 11, Item 5).
55. Install lynch pin (Figure 11, Item 7) in hitch pin (Figure 11, Item 6).
56. Repeat Steps (52) through (55) for right side cart pivot bracket.
57. Remove two crank handles (Figure 12, Item 1) from BII stowage box (Figure 12, Item 2).

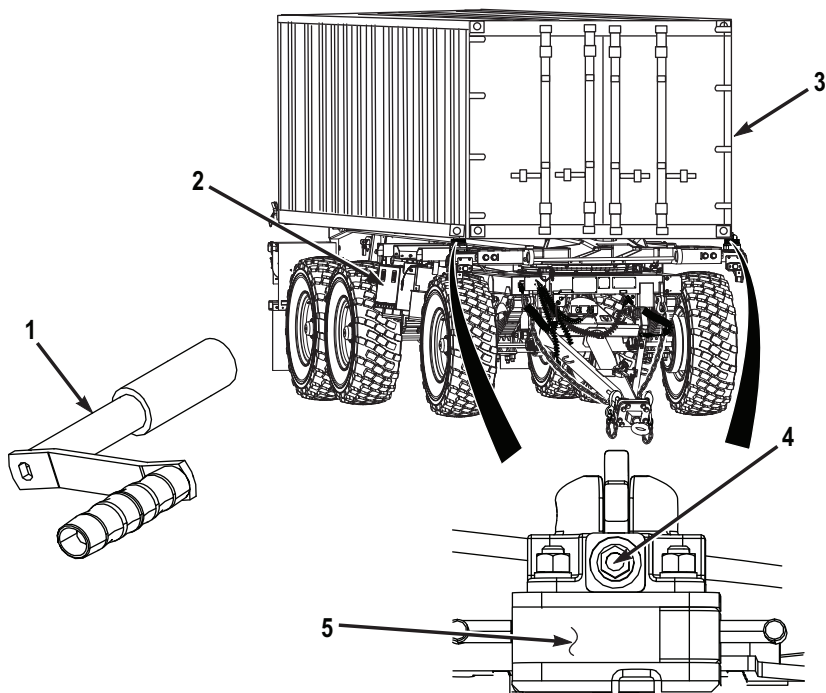
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 12. Transfer Container From Vehicle To Trailer With CHU.

58. With the aid of a crank handle (Figure 12, Item 1), rotate ISO lock adjustment screws (Figure 12, Item 4) on ISO locks (Figure 12, Item 5) clockwise and secure container (Figure 12, Item 3).
59. Stow two crank handles (Figure 12, Item 1) in BII stowage box (Figure 12, Item 2).

NOTE

Operator will have to use MAN H.A. and MAN M.F. hydraulic selections to remove Front Lift Adapter (FLA).

60. Remove FLA from container (Figure 12, Item 3) and position CHU in accordance with mission requirements. Refer to vehicle Operator's manual (WP 0057).
61. Drive vehicle away from trailer. Refer to vehicle Operator's manual (WP 0057).
62. Set vehicle CTIS tire pressure, refer to vehicle Operator's manual (WP 0057), and trailer tires (Figure 13, Item 1) (WP 0054) to proper pressure setting.

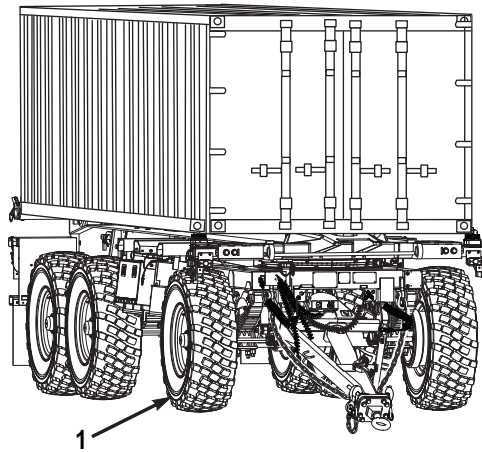
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 13. Transfer Container From Vehicle To Trailer With CHU.

END OF TASK**TRANSFER CONTAINER FROM TRAILER TO VEHICLE****WARNING**

In order to maintain control of container, do not run vehicle in high idle when using LHS to load container onto vehicle. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**WARNING**

- Prior to and during the unload cycle, all personnel should stay clear of LHS and container. Failure to comply may result in injury or death to personnel.
- Do not attempt unloading operations on a side slope greater than 5 degrees and/or fore/aft slope greater than 20 percent. Before attempting to unload on slopes you must determine if ground surface conditions permit safe unloading operations. Slopes that contain snow, ice, loose gravel, or sand may not permit safe unloading. Failure to comply may result in injury or death to personnel.

CAUTION

- Trailer drawbar must be fully retracted and lowered before starting the unload process. Failure to comply may result in damage to equipment.
 - Use extreme caution when unloading container with side doors. Container must remain centered and doors must be closed at all times. Failure to comply may result in damage to equipment.
1. Fully retract and lower trailer drawbar (WP 0011) and stow cables.
 2. Start engine. Refer to vehicle Operator's manual (WP 0057).
 3. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
 4. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
 5. Release parking brake. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**WARNING**

Do not stand between trailer and vehicle during backing procedures. Failure to comply may result in injury or death to personnel.

CAUTION

Vehicle must be aligned with trailer. Failure to comply may result in damage to equipment.

6. With the aid of an assistant, back up vehicle until trailer bumper (Figure 14, Item 1) is approximately 18 in. (46 cm) from bumper plate (Figure 14, Item 2). Refer to vehicle Operator's manual (WP 0057).

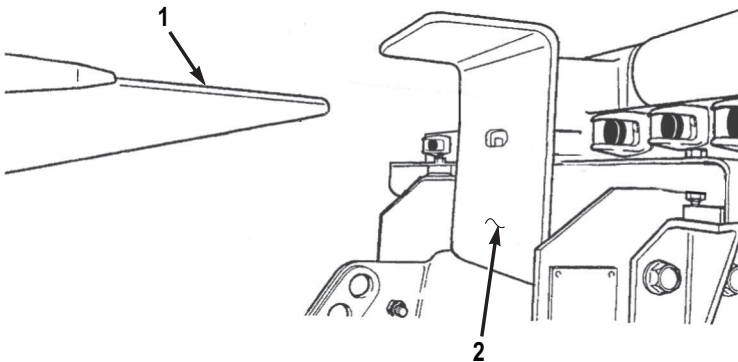


Figure 14. Transfer Container From Trailer To Vehicle With CHU.

7. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
8. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
9. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).

NOTE

Operator will have to use MAN H.A. and MAN M.F. hydraulic selections to install FLA.

10. Install FLA on container. Refer to vehicle Operator's manual (WP 0057).

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

11. Remove two crank handles (Figure 15, Item 1) from BII stowage box (Figure 15, Item 2).

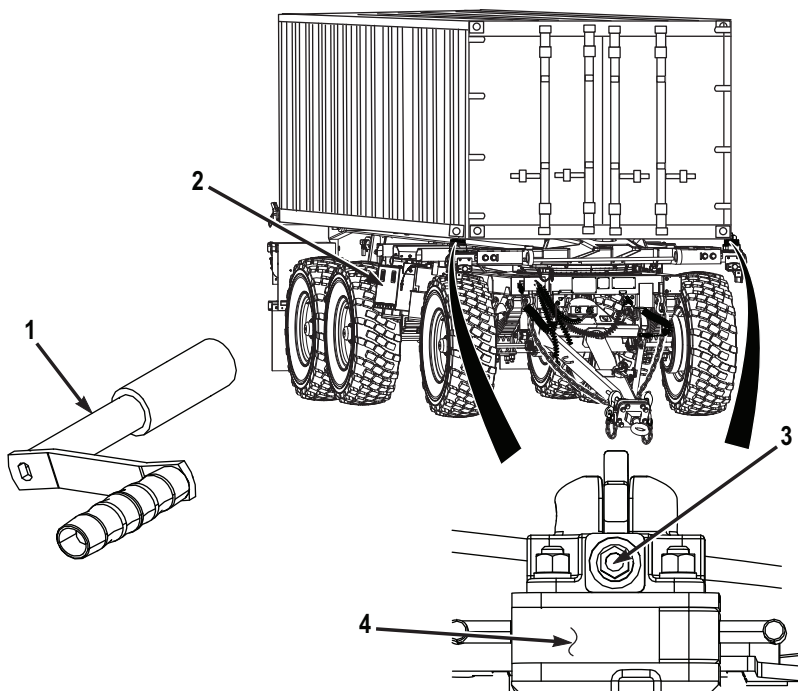


Figure 15. Transfer Container From Trailer To Vehicle With CHU.

12. With the aid of a crank handle (Figure 15, Item 1), rotate ISO lock adjustment screws (Figure 15, Item 3) counterclockwise until ISO locks (Figure 15, Item 4) are fully unlocked.

CAUTION

ISO locks must be fully unlocked from container. Failure to comply may result in damage to equipment.

13. Ensure that both ISO locks (Figure 15, Item 4) are fully unlocked.
14. Stow two crank handles (Figure 15, Item 1) in BII stowage box (Figure 15, Item 2).

NOTE

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

15. Remove two lynch pins (Figure 16, Item 2) from hitch pins (Figure 16, Item 1).

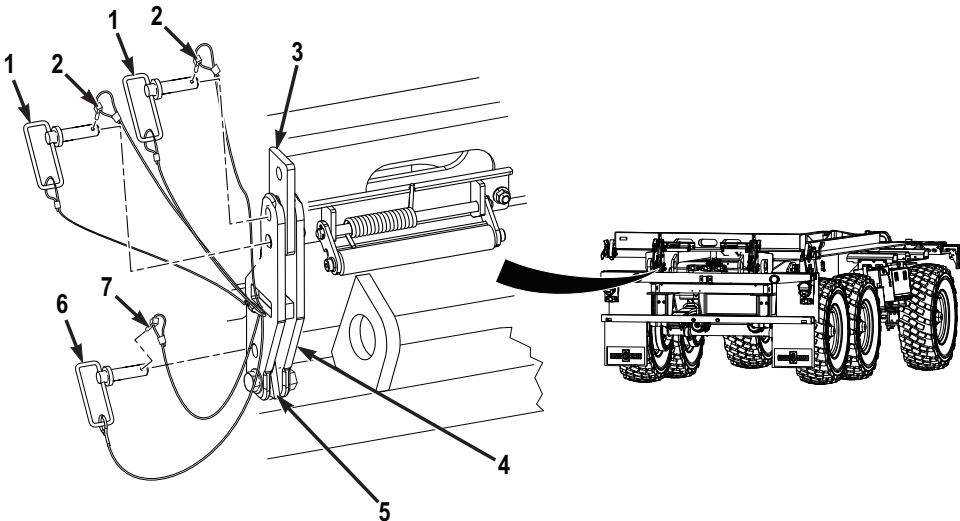


Figure 16. Transfer Container From Trailer To Vehicle With CHU.

16. Remove two hitch pins (Figure 16, Item 1) from cart pivot bracket (Figure 16, Item 4) and cart bracket (Figure 16, Item 3).
17. Remove lynch pin (Figure 16, Item 7) from hitch pin (Figure 16, Item 6).

WARNING

Hands may get pinched if cart pivot bracket falls while removing pin. Support cart pivot bracket while removing pin to avoid pinching fingers between trailer and cart pivot bracket. Failure to comply may result in injury to personnel.

18. Remove hitch pin (Figure 16, Item 6) from cart pivot bracket (Figure 16, Item 4) and trailer bracket (Figure 16, Item 5).
19. Rotate cart pivot bracket (Figure 16, Item 4) down.
20. Repeat Steps (15) through (19) for right side cart pivot bracket.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

21. Turn hydraulic selector switch to MAN H.A. position. Refer to vehicle Operator's manual (WP 0057).

WARNING

- Check for overhead power lines or other obstructions before attempting LHS operation. Failure to comply may result in injury or death to personnel.
 - Ensure all personnel are clear of the vehicle, trailer, and container during LHS operations. Failure to comply may result in injury or death to personnel.
22. Move joystick to LOAD position until container (Figure 17, Item 1) is raised approximately 2 ft (610 mm). Refer to vehicle Operator's manual (WP 0057).

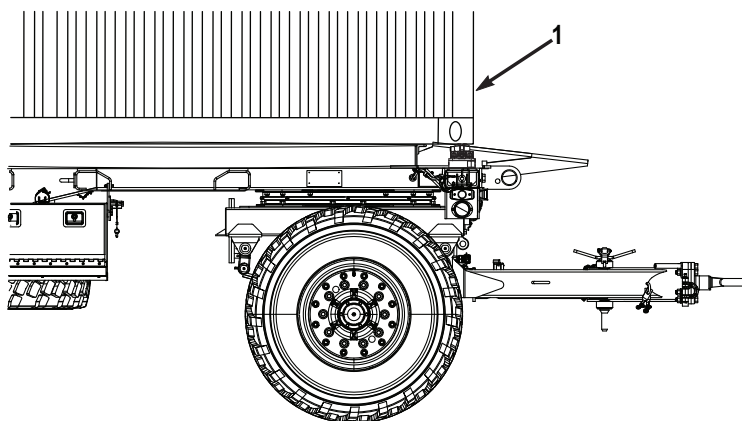


Figure 17. Transfer Container From Trailer To Vehicle With CHU.

23. Release joystick. Refer to vehicle Operator's manual (WP 0057).
24. Remove crank handle (Figure 18, Item 1) from BII stowage box (Figure 18, Item 2).

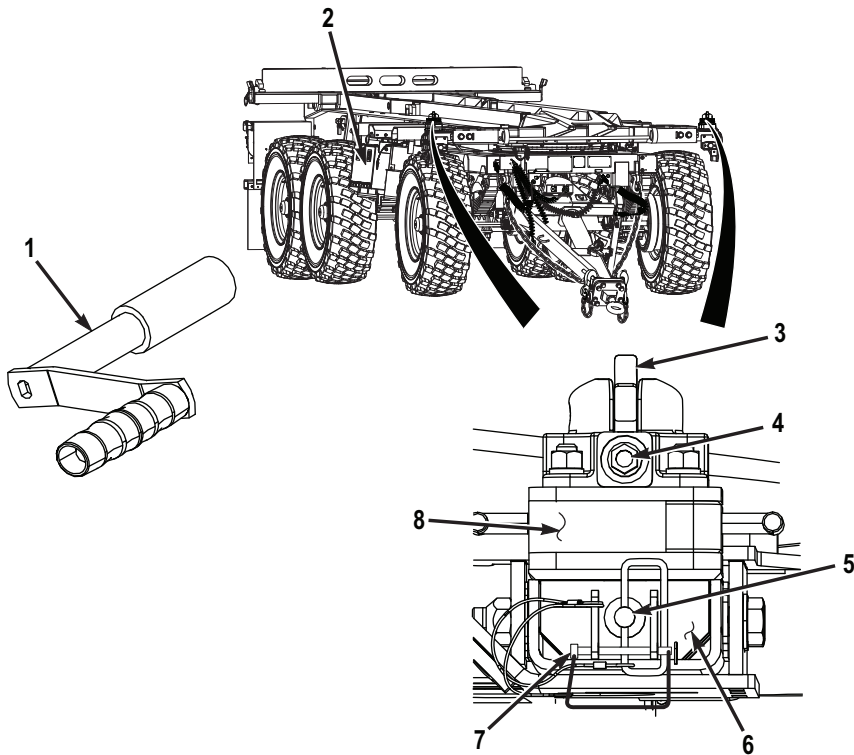
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 18. Transfer Container From Trailer To Vehicle With CHU.

CAUTION

To minimize damage to ISO locks when they are stowed on ISO lock bracket, ensure ISO lock hook does not move. Failure to comply may result in damage to equipment.

NOTE

Both ISO locks are removed the same way. Right side shown.

25. With the aid of a crank handle (Figure 18, Item 1), rotate ISO lock adjustment screw (Figure 18, Item 4) clockwise until ISO lock hook (Figure 18, Item 3) does not move.
26. Remove safety lock pin (Figure 18, Item 7) from ISO lock mount (Figure 18, Item 6).
27. Remove hitch pin (Figure 18, Item 5) from ISO lock (Figure 18, Item 8) and ISO lock mount (Figure 18, Item 6).
28. Remove ISO lock (Figure 18, Item 8) from ISO lock mount (Figure 18, Item 6).

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

29. Repeat Steps (25) through (28) for left side ISO lock.
30. Stow crank handle (Figure 18, Item 1) in BII stowage box (Figure 18, Item 2).
31. Turn hydraulic selector switch to AUTO position. Refer to vehicle Operator's manual (WP 0057).

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

32. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
33. Continue to load container (Figure 19, Item 2) on vehicle until container (Figure 19, Item 2) comes in contact with slider (Figure 19, Item 1).

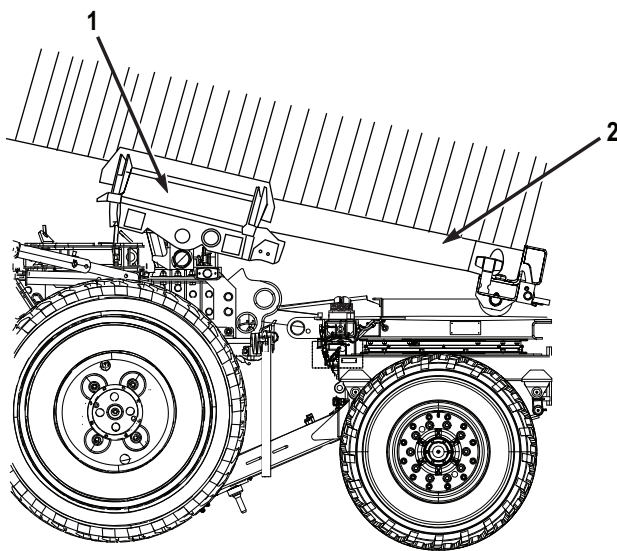


Figure 19. Transfer Container From Trailer To Vehicle With CHU.

34. Release joystick. Refer to vehicle Operator's manual (WP 0057).

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**WARNING**

Cart weighs 433 lbs (197 kg). Cart must be in contact with trailer before unlocking container locks. Failure to comply may result in injury or death to personnel.

NOTE

Left side and right side container locks are unlocked the same way. Left side shown.

35. Remove lynch pin (Figure 20, Item 2) from hitch pin (Figure 20, Item 1).

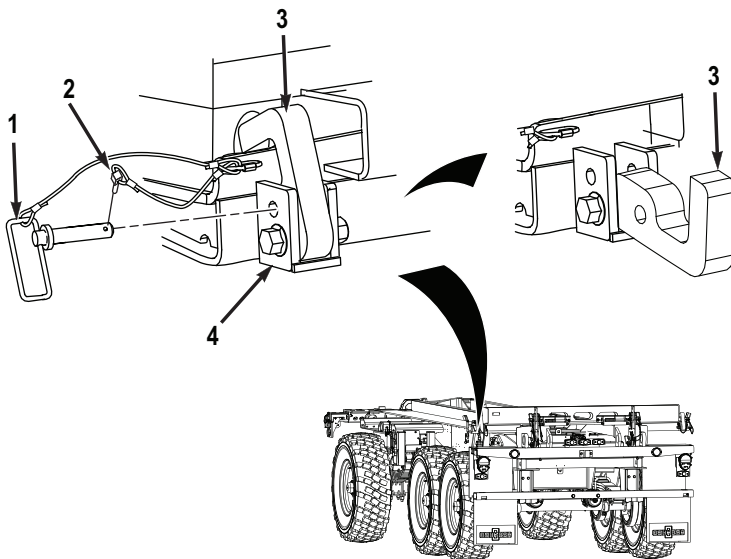


Figure 20. Transfer Container From Trailer To Vehicle With CHU.

36. Remove hitch pin (Figure 20, Item 1) from container lock bracket (Figure 20, Item 4) and container lock (Figure 20, Item 3).
37. Rotate container lock (Figure 20, Item 3) to unlocked position.
38. Repeat Steps (35) through (37) for right side container lock.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**WARNING**

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

39. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
40. Load container (Figure 21, Item 1) on vehicle.

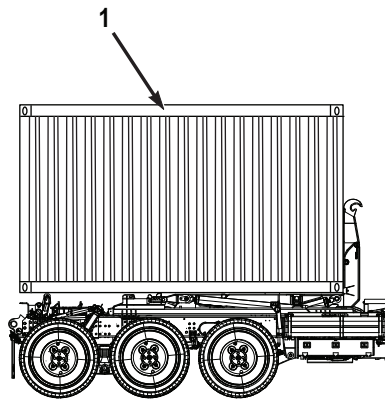


Figure 21. Transfer Container From Trailer To Vehicle With CHU.

41. Release joystick. Refer to vehicle Operator's manual (WP 0057).
42. Drive vehicle forward. Refer to vehicle Operator's manual (WP 0057).

NOTE

Both ISO lock mount pins are installed the same way. Right side shown.

43. Install hitch pin (Figure 22, Item 1) on ISO lock mount (Figure 22, Item 2).

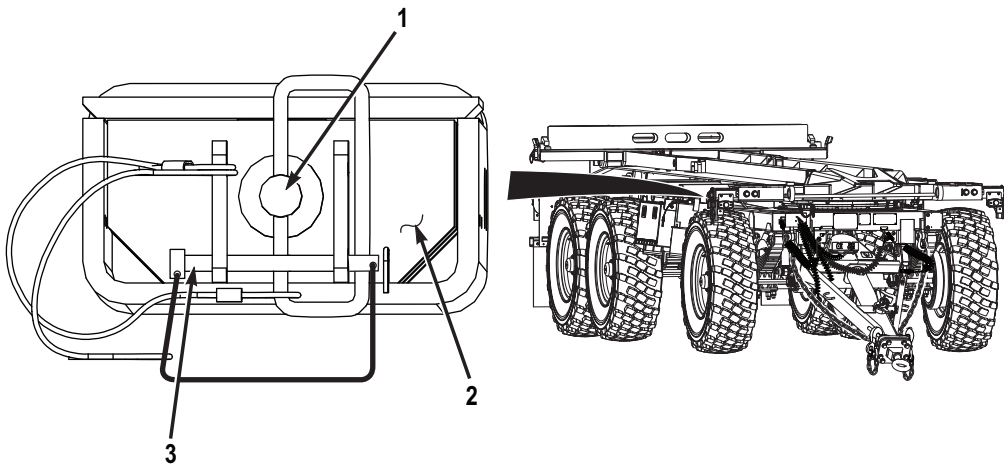
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 22. Transfer Container From Trailer To Vehicle With CHU.

44. Install safety lock pin (Figure 22, Item 3) on ISO lock mount (Figure 22, Item 2).
45. Repeat Steps (43) and (44) for left side.

CAUTION

To minimize damage to ISO lock adjustment screw, install ISO lock facing inboard. Failure to comply may result in damage to equipment.

NOTE

- Both ISO locks are installed the same way. Inboard ISO lock shown.
 - Install ISO locks as noted prior to removal.
46. Install ISO lock (Figure 23, Item 3) on ISO lock bracket (Figure 23, Item 2) with gravity lock hitch pin (Figure 23, Item 1).

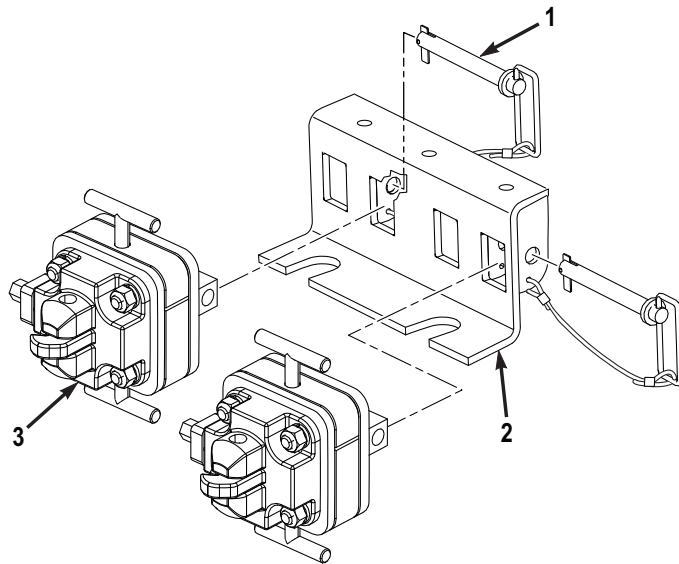
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 23. Transfer Container From Trailer To Vehicle With CHU.

47. Repeat Step (46) for outboard ISO lock.

NOTE

Left side and right side container locks are locked the same way. Left side shown.

48. Rotate container lock (Figure 24, Item 1) to locked position.

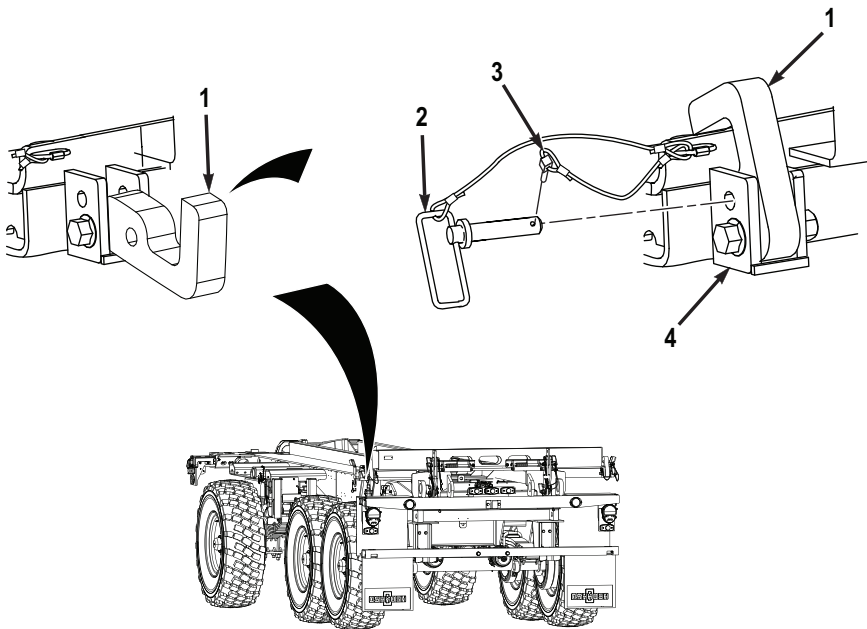
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 24. Transfer Container From Trailer To Vehicle With CHU.

49. Install hitch pin (Figure 24, Item 2) in container lock bracket (Figure 24, Item 4) and container lock (Figure 24, Item 1).
50. Install lynch pin (Figure 24, Item 3) in hitch pin (Figure 24, Item 2).
51. Repeat Steps (48) through (50) for right side container lock.

WARNING

Do not hold pivot bracket or put hand between pivot bracket and cart when moving cart. Hands and fingers may be pinched between pivot bracket and cart as cart is being moved. As cart reaches last two feet of travel cart will accelerate quickly to rear of trailer. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**CAUTION**

Ensure cart path is free of debris prior to moving cart. Failure to comply may result in damage to equipment.

52. With the aid of an assistant, roll cart (Figure 25, Item 4) to rear of trailer (Figure 25, Item 5).

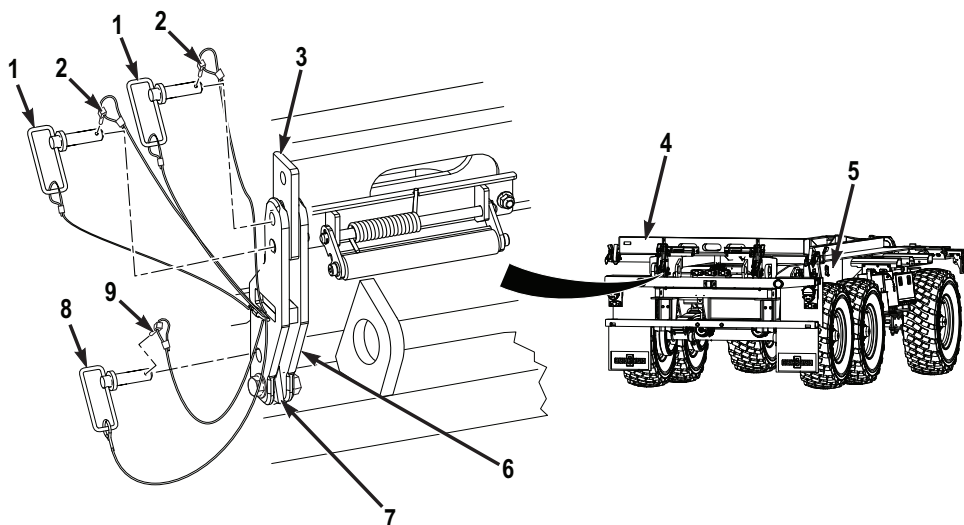


Figure 25. Transfer Container From Trailer To Vehicle With CHU.

NOTE

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

53. With aid of an assistant, rotate cart pivot bracket (Figure 25, Item 6) up until two holes are aligned with bottom holes in cart bracket (Figure 25, Item 3) and install two hitch pins (Figure 25, Item 1) in cart pivot bracket (Figure 25, Item 6) and cart bracket (Figure 25, Item 3).
54. Install two lynch pins (Figure 25, Item 2) in hitch pins (Figure 25, Item 1).
55. Install hitch pin (Figure 25, Item 8) in cart pivot bracket (Figure 25, Item 6) and trailer bracket (Figure 25, Item 7).
56. Install lynch pin (Figure 25, Item 9) in hitch pin (Figure 25, Item 8).

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

57. Repeat Steps (52) through (56) for right side cart pivot bracket.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE TRANSFER CONTAINER WITH ECHU

INITIAL SETUP:

Personnel Required
(3)

References (cont.)

WP 0025
WP 0054
WP 0057

References

TB 9-3950-253-13&P (WP 0057)
WP 0011
WP 0015
WP 0024

Equipment Condition

Wheels chocked. (WP 0020)
Apply parking brakes. (WP 0016)

TRANSFER CONTAINER FROM VEHICLE TO TRAILER

WARNING



In order to maintain control of container, do not run vehicle in high idle when using LHS to load container onto trailer. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**WARNING**

- Prior to and during the load cycle, all personnel should stay clear of LHS and container. Failure to comply may result in injury or death to personnel.
- Do not attempt loading operations on a side slope greater than 5 degrees and/or fore/aft slope greater than 20 percent. Before attempting to load on slopes you must determine if ground surface conditions permit safe loading operations. Slopes that contain snow, ice, loose gravel, or sand may not permit safe loading. Failure to comply may result in injury or death to personnel.

CAUTION

- Trailer drawbar must be fully retracted and lowered before starting the loading process. Failure to comply may result in damage to equipment.
- Use extreme caution when loading container with side doors. Container must remain centered and doors must be closed at all times. Failure to comply may result in damage to equipment.

1. Fully retract and lower trailer drawbar (WP 0011) and stow cables.
2. Ensure ISO locks are stowed on ISO lock bracket (WP 0024).
3. Ensure cart is positioned in container mode (WP 0003). If it is not, position cart in container mode (WP 0025).
4. Load container on vehicle. Refer to TB 9-3950-253-13&P (WP 0057).
5. Release and stow transport locks and rear twist locks. Refer to TB 9-3950-253-13&P (WP 0057).

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**WARNING**

Slider bracket on slider may swing down when pin is removed. Support slider bracket when removing pin. Failure to comply may result in injury or death to personnel.

NOTE

Slider brackets on both sliders are disengaged the same way. Left side shown.

6. Remove safety pin (Figure 1, Item 2) from hitch pin (Figure 1, Item 1).

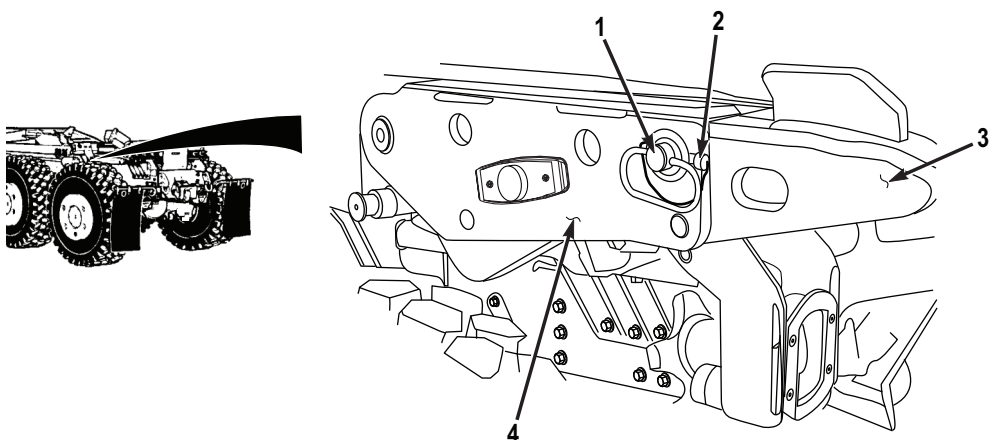


Figure 1. Transfer Container From Vehicle To Trailer With ECHU.

7. Remove hitch pin (Figure 1, Item 1) from slider bracket (Figure 1, Item 3) and slider (Figure 1, Item 4) and rotate slider bracket (Figure 1, Item 3) down.
8. Install hitch pin (Figure 1, Item 1) through slider (Figure 1, Item 4) and slider bracket (Figure 1, Item 3).
9. Install safety pin (Figure 1, Item 2) in hitch pin (Figure 1, Item 1).
10. Repeat Steps (6) through (9) for right side slider bracket.
11. Remove lynch pin (Figure 2, Item 1) from clevis pin (Figure 2, Item 4).

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

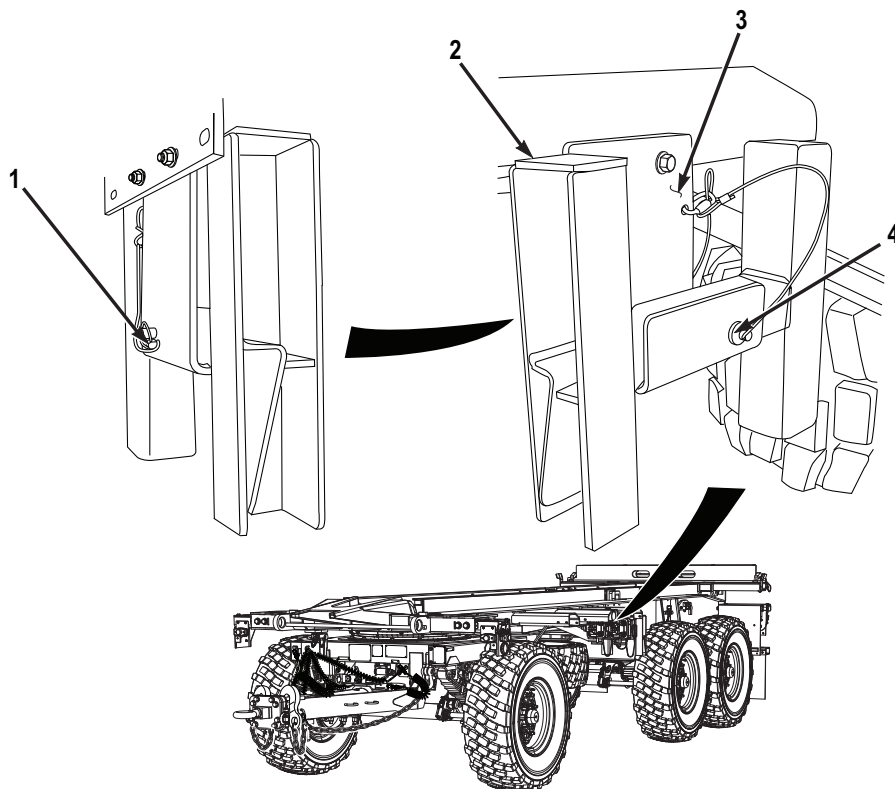


Figure 2. Transfer Container From Vehicle To Trailer With ECHU.

12. Remove clevis pin (Figure 2, Item 4) from bracket (Figure 2, Item 3) and bumper attachment (Figure 2, Item 2).
13. Remove bumper attachment (Figure 2, Item 2) from bracket (Figure 2, Item 3).

WARNING

Bumper attachment is not secured to trailer bumper. Use care when installing and working around bumper attachment as bumper attachment could fall off trailer bumper. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

14. Install bumper attachment (Figure 3, Item 1) on trailer bumper (Figure 3, Item 2).

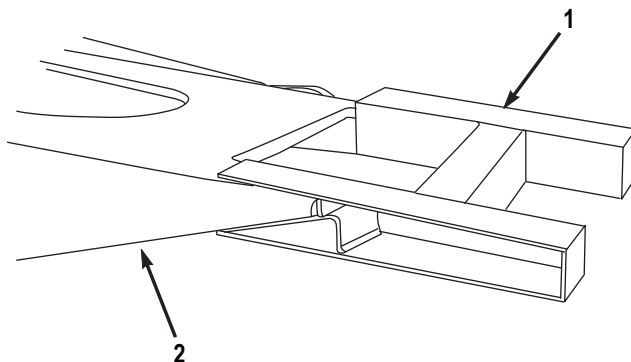


Figure 3. Transfer Container From Vehicle To Trailer With ECHU.

15. Start engine. Refer to vehicle Operator's manual (WP 0057).
16. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
17. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
18. Release parking brake. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

WARNING

Do not stand between trailer and vehicle during backing procedures. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**CAUTION**

- Vehicle must be aligned with trailer. Failure to comply may result in damage to equipment.
- Both of the bumper points must be under the vehicle bumper plate flange and at least one of the bumper points must contact the bumper plate. The bumper point not contacting the bumper plate cannot exceed 0.5 in. (12.7 mm) distance from bumper plate or container will not load properly. Failure to comply may result in damage to equipment.

19. With the aid of an assistant, back up vehicle so that bumper attachment (Figure 4, Item 3) is under bumper plate flange (Figure 4, Item 2) and is in contact with bumper plate (Figure 4, Item 1). Refer to vehicle Operator's manual (WP 0057).

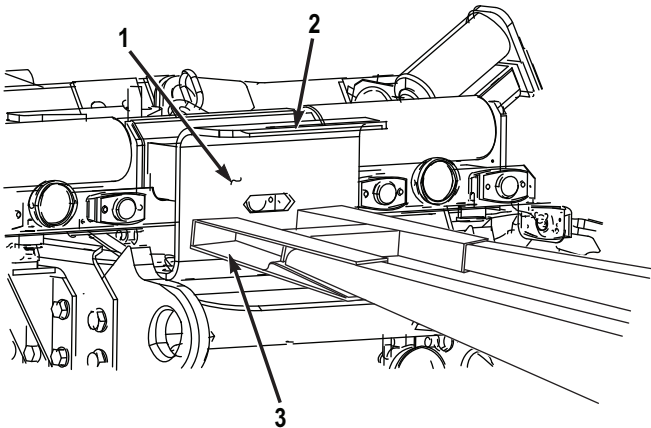


Figure 4. Transfer Container From Vehicle To Trailer With ECHU.

20. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
21. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).
22. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side container locks are unlocked the same way. Left side shown.

23. Remove lynch pin (Figure 5, Item 2) from hitch pin (Figure 5, Item 1).

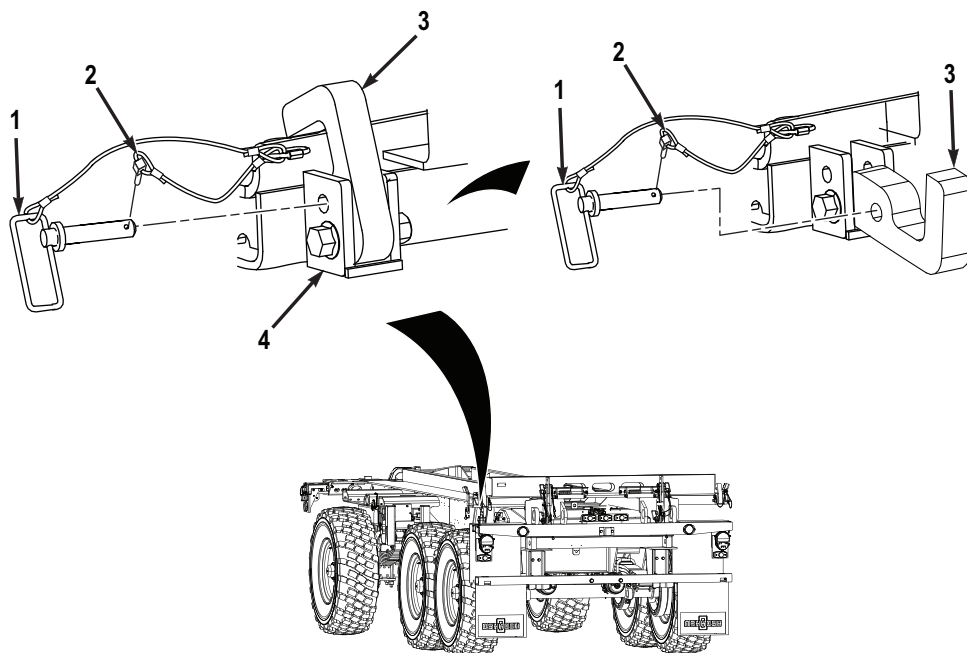
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 5. Transfer Container From Vehicle To Trailer With ECHU.

24. Remove hitch pin (Figure 5, Item 1) from container lock bracket (Figure 5, Item 4) and container lock (Figure 5, Item 3).
25. Rotate container lock (Figure 5, Item 3) to unlocked position.
26. Install hitch pin (Figure 5, Item 1) in container lock (Figure 5, Item 3).
27. Install lynch pin (Figure 5, Item 2) in hitch pin (Figure 5, Item 1).
28. Repeat Steps (23) through (27) for right side container lock.

NOTE

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

29. Remove two lynch pins (Figure 6, Item 2) from hitch pins (Figure 6, Item 1).

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

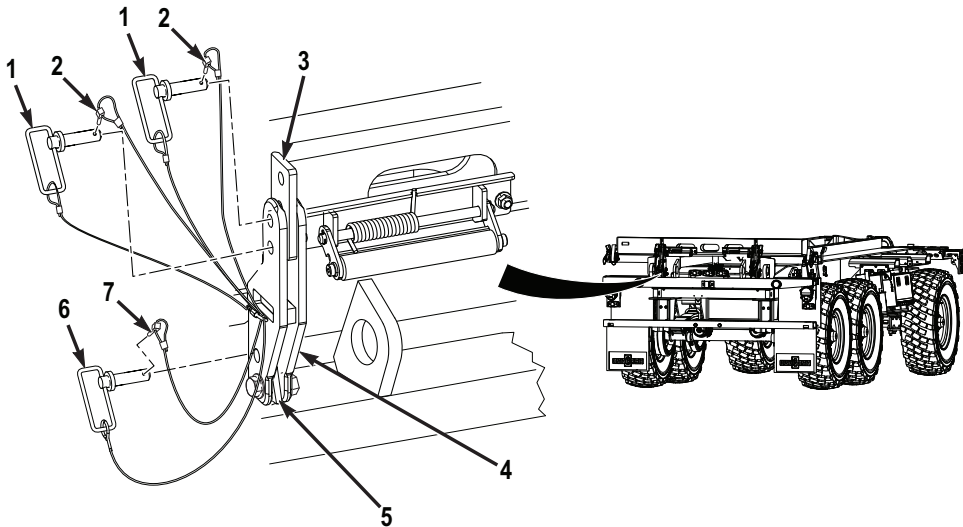


Figure 6. Transfer Container From Vehicle To Trailer With ECHU.

30. Remove two hitch pins (Figure 6, Item 1) from cart pivot bracket (Figure 6, Item 4) and cart bracket (Figure 6, Item 3).
31. Remove lynch pin (Figure 6, Item 7) from hitch pin (Figure 6, Item 6).

WARNING

Hands may get pinched if cart pivot bracket falls while removing pin. Support cart pivot bracket while removing pin to avoid pinching fingers between trailer and cart pivot bracket. Failure to comply may result in injury to personnel.

32. Remove hitch pin (Figure 6, Item 6) from cart pivot bracket (Figure 6, Item 4) and trailer bracket (Figure 6, Item 5).
33. Rotate cart pivot bracket (Figure 6, Item 4) down.
34. Repeat Steps (29) through (33) for right side cart pivot bracket.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**WARNING**

Do not hold pivot bracket or put hand between pivot bracket and cart when moving cart. Hands and fingers may be pinched between pivot bracket and cart as cart is being moved. Failure to comply may result in injury or death to personnel.

CAUTION

Ensure cart path is free of debris prior to moving cart. Failure to comply may result in damage to equipment.

NOTE

Ensure flat rack locks are in unlocked position (WP 0015).

35. With the aid of an assistant, roll cart (Figure 7, Item 3) from rear of trailer (Figure 7, Item 2) to front of trailer (Figure 7, Item 2) until front of cart (Figure 7, Item 3) is aligned with rear of container (Figure 7, Item 1).

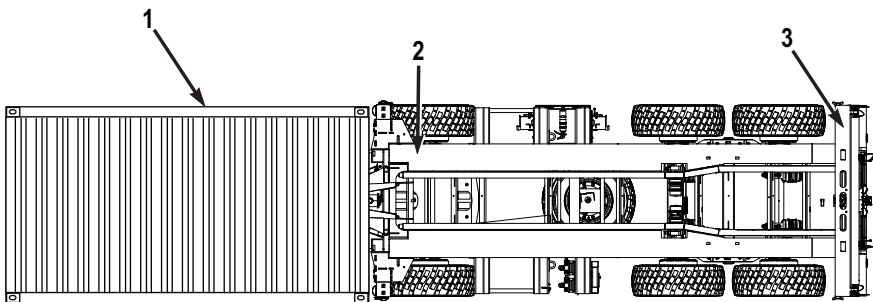
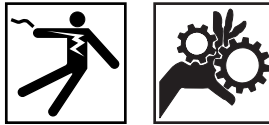


Figure 7. Transfer Container From Vehicle To Trailer With ECHU.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**WARNING**

- Check for overhead power lines or other obstructions before attempting LHS operation. Failure to comply may result in injury or death to personnel.
- Ensure all personnel are clear of the vehicle, trailer, and container during LHS operations. Failure to comply may result in injury or death to personnel.
- If adjustment of cart is needed for rear corner fittings on container to align with and clear cart pegs, stop loading operation. When adjusting cart, do not put hands between container and cart, only put your hands on container lock. After cart is properly adjusted, move away and continue loading operation. Failure to comply may result in injury or death to personnel.

CAUTION

- Ensure rear corner fittings on container align with and clear cart pegs. Failure to comply may result in damage to equipment.
- Ensure cart is free of debris. Failure to comply may result in damage to equipment.
- Ensure back of container is free of debris. Failure to comply may result in damage to equipment.
- Ensure trailer bumper attachment remains under vehicle bumper plate during loading process. Failure to comply may result in damage to equipment.
- Container must be loaded in Manual Mode. Failure to comply may result in damage to equipment.

TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued**NOTE**

- As container is being loaded onto cart, ensure that rear corner fittings on container align with and clear top of cart pegs. This allows container to be loaded correctly onto cart. Due to variations in the level of the ground between vehicle and trailer, loading process may need to be stopped just prior to container contacting cart to allow adjustment of cart.
 - If adjustment of cart is needed; stop loading process, stand at side of trailer next to cart, and use container locks as a handle to align rear corner fittings on container with cart pegs.
 - If adjusting cart does not aid in aligning rear corner fittings on container with top of cart pegs, adjust vehicle CTIS tire pressure, refer to vehicle Operator's manual (WP 0057) and/or trailer tire pressure (WP 0054) until rear corner fittings on container are aligned with and clear top of cart pegs. Ensure bumper attachment remains in contact with and under vehicle bumper plate.
36. Turn hydraulic selector switch to MAN H.A. position. Refer to vehicle Operator's manual (WP 0057).
 37. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
 38. Unload container (Figure 8, Item 1) until container (Figure 8, Item 1) is properly seated on cart (Figure 8, Item 3) and cart pegs (Figure 8, Item 2).

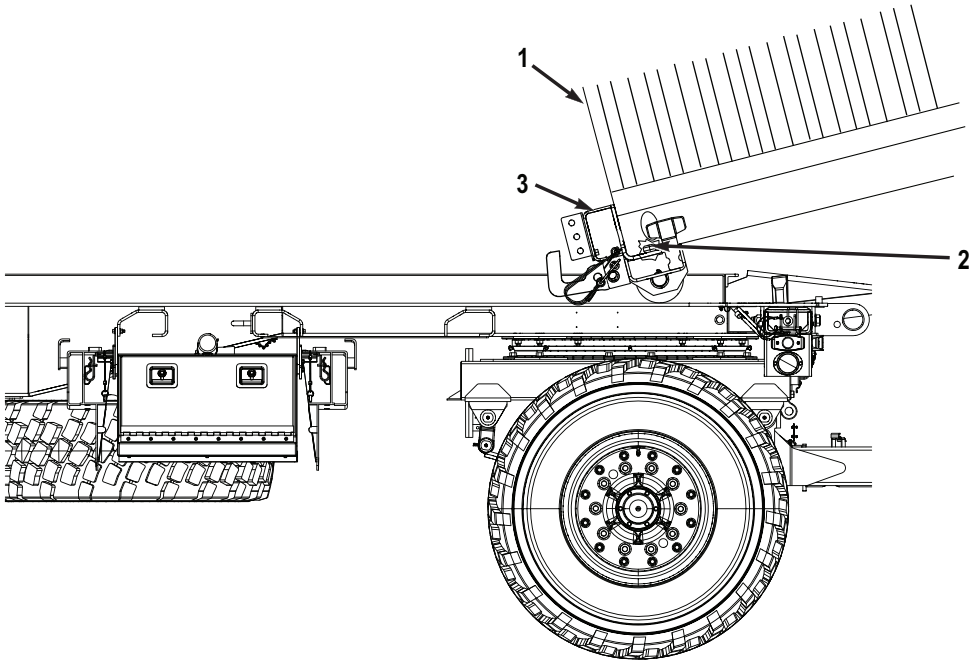
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 8. Transfer Container From Vehicle To Trailer With ECHU.

39. Release joystick. Refer to vehicle Operator's manual (WP 0057).

NOTE

- Left side and right side container locks are locked the same way. Left side shown.
- If Steps (40) through (45) cannot be performed, container is not properly seated on cart.

40. Remove lynch pin (Figure 9, Item 2) from hitch pin (Figure 9, Item 1).

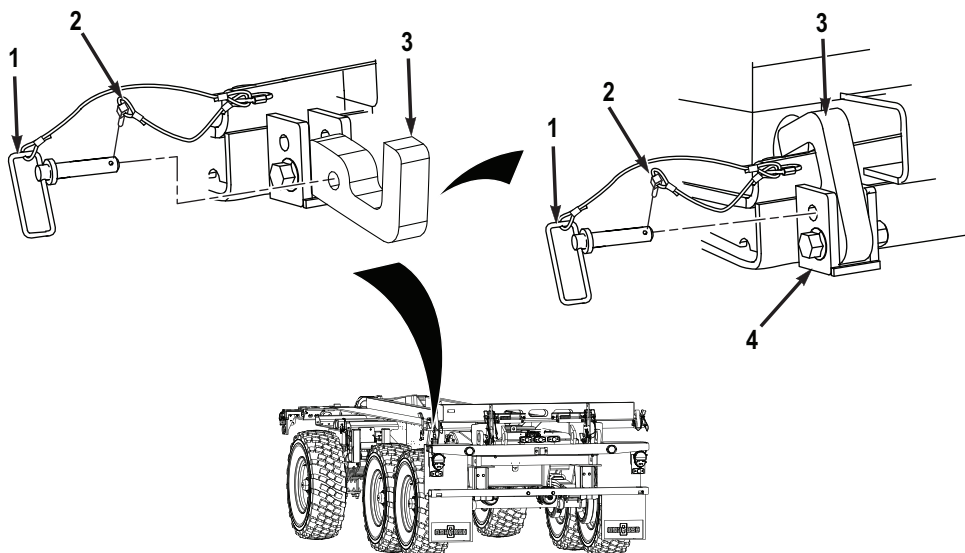
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 9. Transfer Container From Vehicle To Trailer With ECHU.

41. Remove hitch pin (Figure 9, Item 1) from container lock (Figure 9, Item 3).
42. Rotate container lock (Figure 9, Item 3) to locked position.
43. Install hitch pin (Figure 9, Item 1) in container lock bracket (Figure 9, Item 4) and container lock (Figure 9, Item 3).
44. Install lynch pin (Figure 9, Item 2) in hitch pin (Figure 9, Item 1).
45. Repeat Steps (40) through (44) for right side container lock.
46. Move joystick to UNLOAD position. Refer to vehicle Operator's manual (WP 0057).
47. Unload container (Figure 10, Item 1) until hook arm is at full travel. Refer to vehicle Operator's manual (WP 0057).

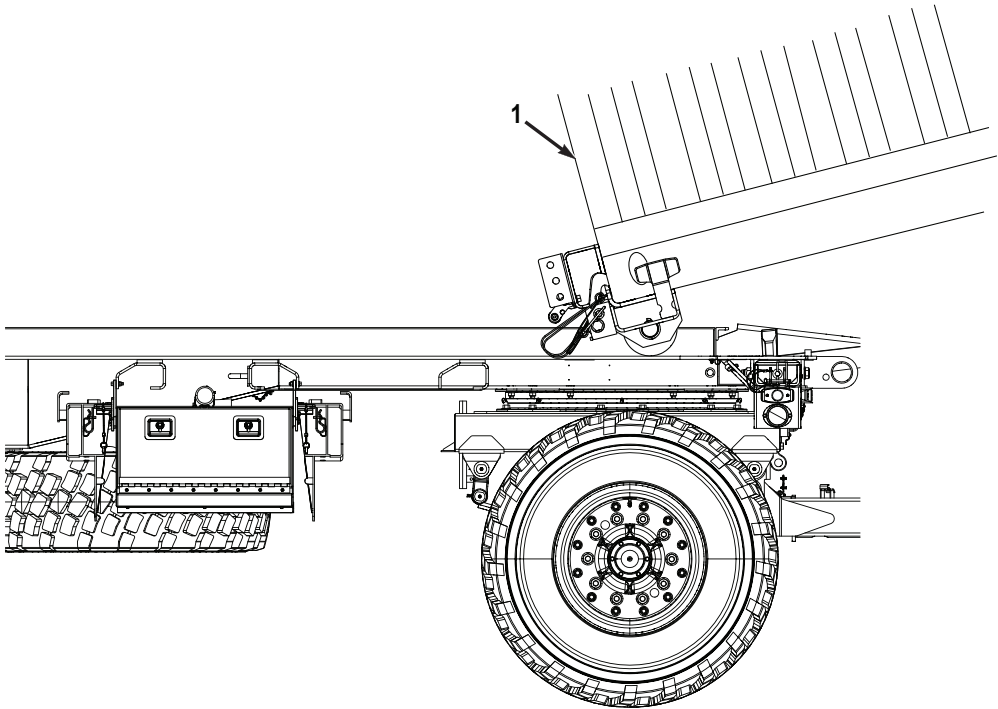
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 10. Transfer Container From Vehicle To Trailer With ECHU.

48. Release joystick. Refer to vehicle Operator's manual (WP 0057).
49. Install ISO locks (WP 0024).
50. Remove two crank handles (Figure 11, Item 1) from BII stowage box (Figure 11, Item 2).

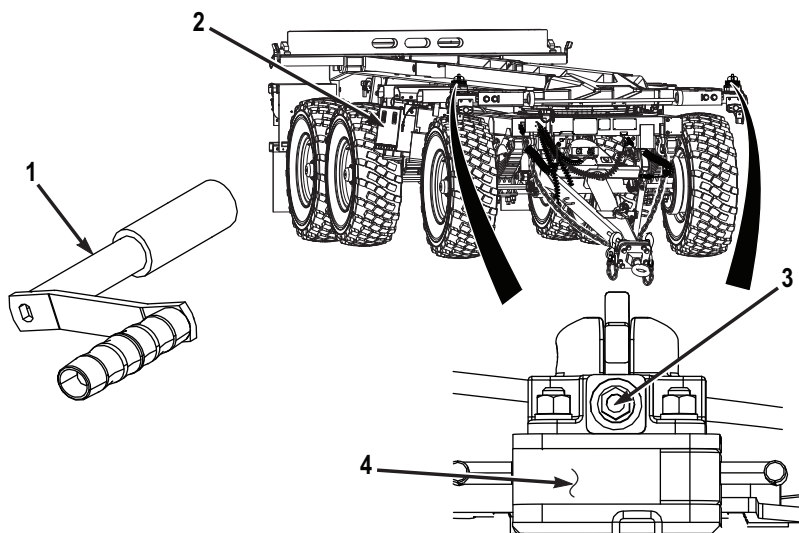
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 11. Transfer Container From Vehicle To Trailer With ECHU.

51. With the aid of a crank handle (Figure 11, Item 1), rotate ISO lock adjustment screws (Figure 11, Item 3) counterclockwise until ISO locks (Figure 11, Item 4) are fully unlocked.
52. Stow two crank handles (Figure 11, Item 1) in BII stowage box (Figure 11, Item 2).
53. Turn hydraulic selector switch to MAN M.F. position. Refer to vehicle Operator's manual (WP 0057).

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

54. Move joystick to UNLOAD position and continue to unload container (Figure 12, Item 1) until back of two rear rollers (Figure 12, Item 2) are even with brackets (Figure 12, Item 3). Refer to vehicle Operator's manual (WP 0057).

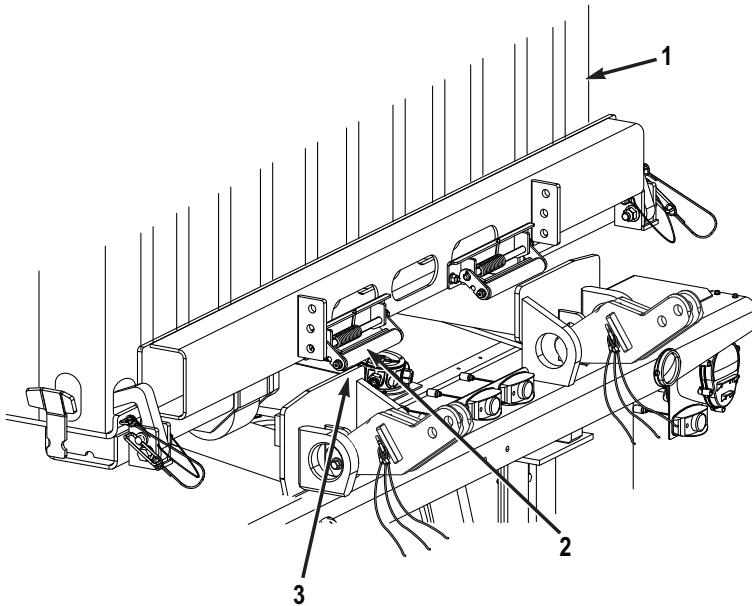
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 12. Transfer Container From Vehicle To Trailer With ECHU.

55. Release joy stick. Refer to vehicle Operator's manual (WP 0057).
56. Turn hydraulic selector switch to MAN H.A. position. Refer to vehicle Operator's manual (WP 0057).
57. Move joystick to LOAD position and raise container (Figure 13, Item 1) until middle of two bottom rollers (Figure 13, Item 2) are even with back of rear trailer tires (Figure 13, Item 3). Refer to vehicle Operator's manual (WP 0057).

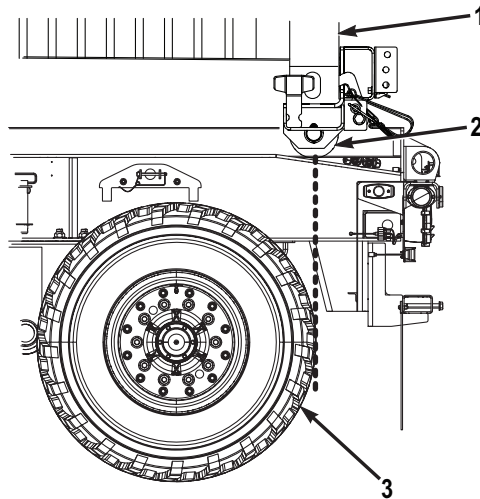
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 13. Transfer Container From Vehicle To Trailer With ECHU.

58. Release joy stick. Refer to vehicle Operator's manual (WP 0057).
59. Turn hydraulic selector switch to MAN M.F. position. Refer to vehicle Operator's manual (WP 0057).
60. Move joystick to UNLOAD position and continue to unload container (Figure 14, Item 1) until cart (Figure 14, Item 3) first contacts cart stops (Figure 14, Item 2). Refer to vehicle Operator's manual (WP 0057).

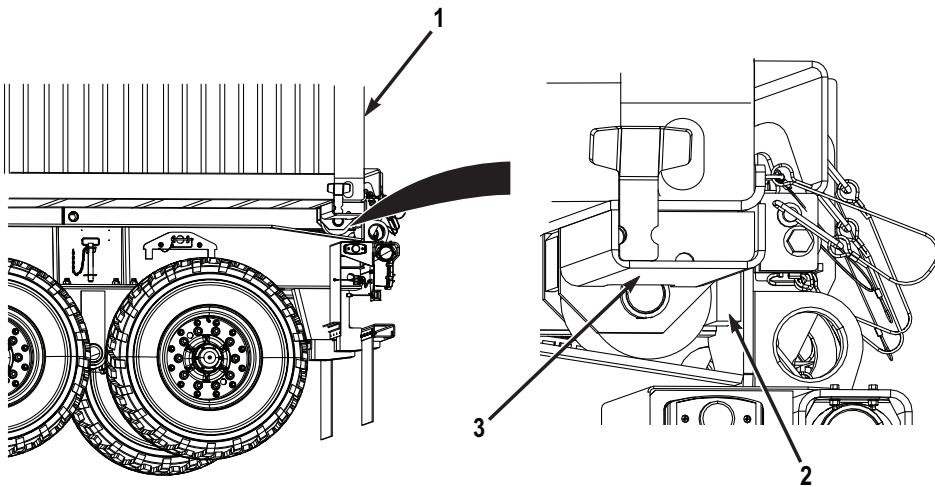
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 14. Transfer Container From Vehicle To Trailer With ECHU.

61. Release joy stick. Refer to vehicle Operator's manual (WP 0057).
62. Release parking brake. Refer to vehicle Operator's manual (WP 0057).
63. Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).
64. Move joystick to UNLOAD position and continue to unload container (Figure 15, Item 1) until container (Figure 15, Item 1) rest on two ISO locks (Figure 15, Item 2). Refer to vehicle Operator's manual (WP 0057).

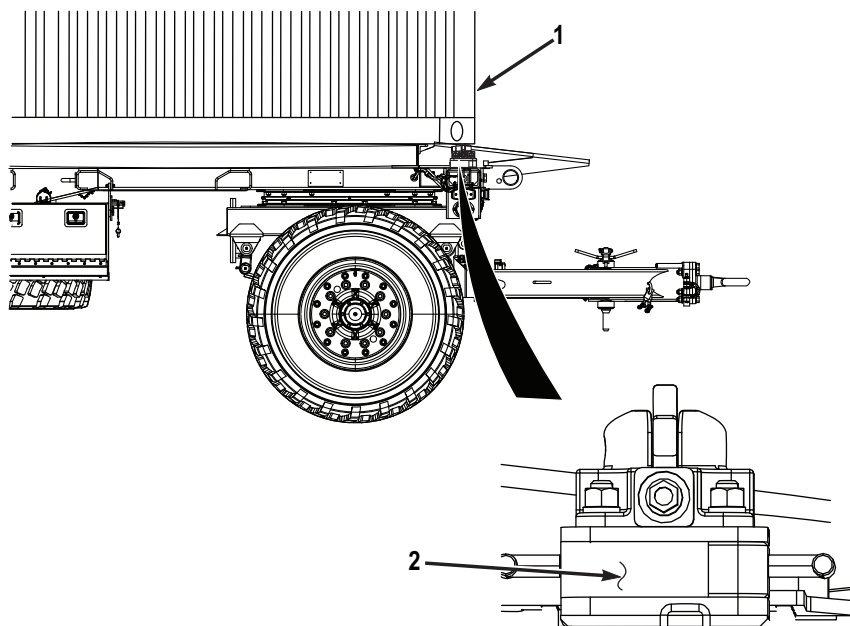
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 15. Transfer Container From Vehicle To Trailer With ECHU.

65. Release joy stick. Refer to vehicle Operator's manual (WP 0057).
66. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
67. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side hitch pins and lynch pins are installed the same way. Left side shown.

68. With the aid of an assistant, rotate cart pivot bracket (Figure 16, Item 4) up until two holes are aligned with bottom holes in cart bracket (Figure 16, Item 3) and install two hitch pins (Figure 16, Item 1) in cart pivot bracket (Figure 16, Item 4) and cart bracket (Figure 16, Item 3).

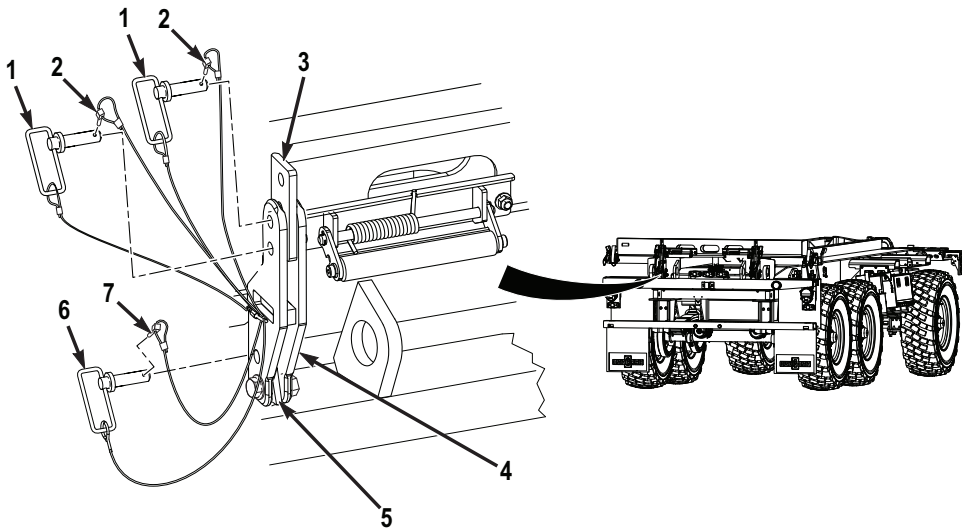
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 16. Transfer Container From Vehicle To Trailer With ECHU.

69. Install two lynch pins (Figure 16, Item 2) in hitch pins (Figure 16, Item 1).
70. Install hitch pin (Figure 16, Item 6) in cart pivot bracket (Figure 16, Item 4) and trailer bracket (Figure 16, Item 5).
71. Install lynch pin (Figure 16, Item 7) in hitch pin (Figure 16, Item 6).
72. Repeat Steps (68) through (71) for right side cart pivot bracket.
73. Remove two lower locking plates of Front Lift Adapter (FLA) from container (Figure 17, Item 3). Refer to TB 9-3950-253-13&P (WP 0057).
74. Remove two crank handles (Figure 17, Item 1) from BII stowage box (Figure 17, Item 2).

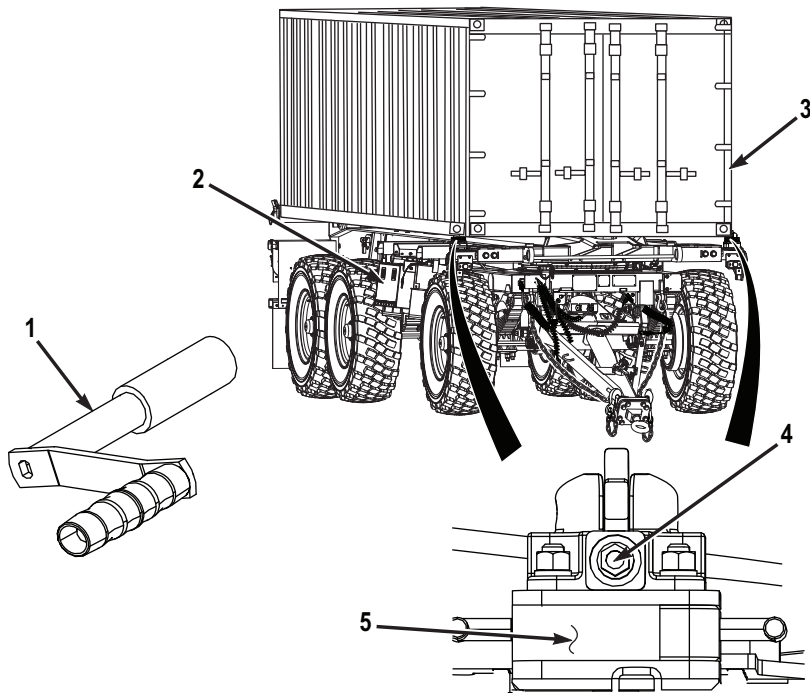
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 17. Transfer Container From Vehicle To Trailer With ECHU.

75. With the aid of a crank handle (Figure 17, Item 1), rotate ISO lock adjustment screws (Figure 17, Item 4) on ISO locks (Figure 17, Item 5) clockwise and secure container (Figure 17, Item 3).
76. Stow two crank handles (Figure 17, Item 1) in BII stowage box (Figure 17, Item 2).

NOTE

Operator will have to use MAN H.A. and MAN M.F. hydraulic selections to remove FLA.

77. Remove FLA from container and position ECHU in accordance with mission requirements. Refer to TB 9-3950-253-13&P (WP 0057).
78. Drive vehicle away from trailer. Refer to vehicle Operator's manual (WP 0057).
79. Remove bumper attachment (Figure 18, Item 1) from trailer bumper (Figure 18, Item 2).

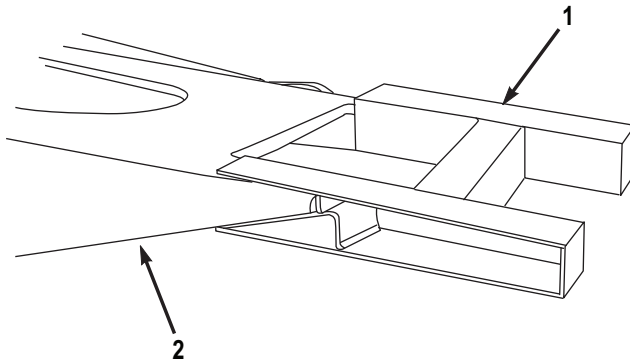
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 18. Transfer Container From Vehicle To Trailer With ECHU.

80. Position bumper attachment (Figure 19, Item 2) on bracket (Figure 19 Item 3).

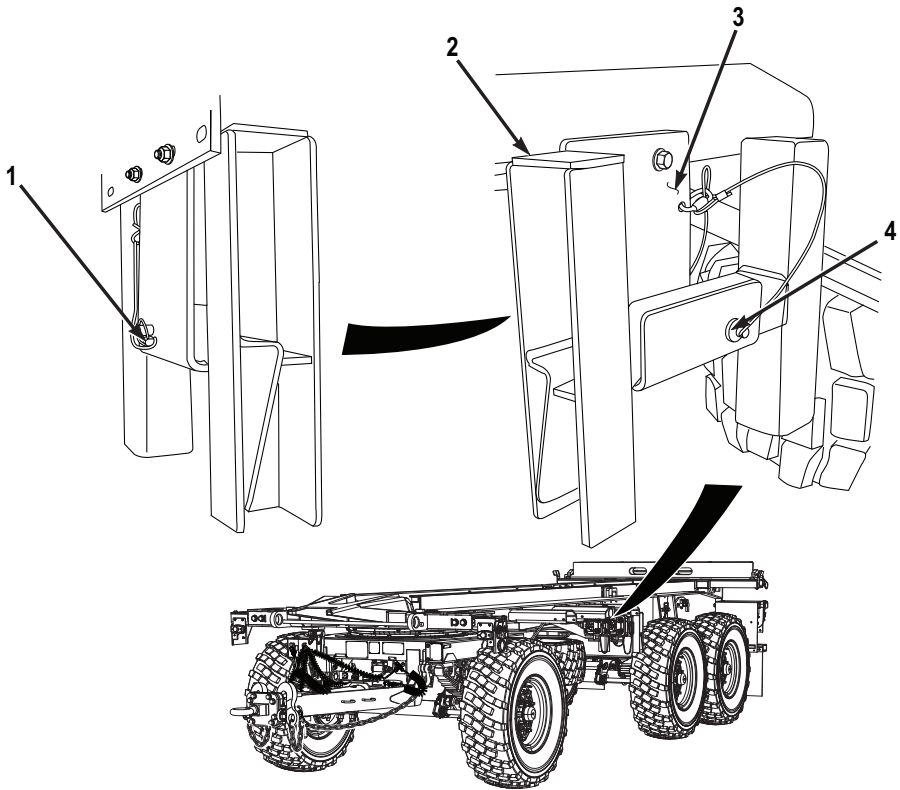
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 19. Transfer Container From Vehicle To Trailer With ECHU.

81. Install clevis pin (Figure 19, Item 4) on bracket (Figure 19, Item 3) and bumper attachment (Figure 19, Item 2).
82. Install lynch pin (Figure 19, Item 1) on clevis pin (Figure 19, Item 4).
83. Set vehicle CTIS tire pressure, refer to vehicle Operator's manual (WP 0057), and trailer tires (Figure 20, Item 1) (WP 0054) to proper pressure setting.

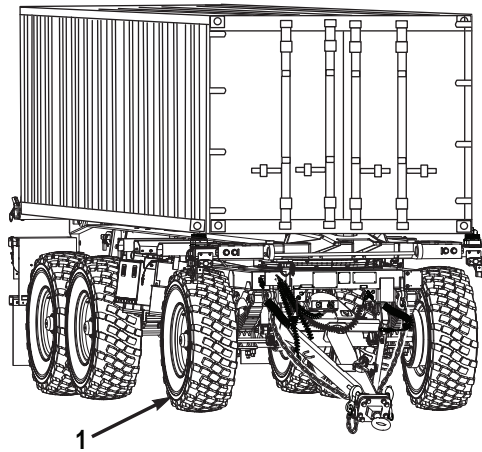
TRANSFER CONTAINER FROM VEHICLE TO TRAILER - Continued

Figure 20. Transfer Container From Vehicle To Trailer With ECHU.

END OF TASK**TRANSFER CONTAINER FROM TRAILER TO VEHICLE****WARNING**

In order to maintain control of container, do not run vehicle in high idle when using LHS to load container onto vehicle. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**WARNING**

- Prior to and during the unload cycle, all personnel should stay clear of LHS and container. Failure to comply may result in injury or death to personnel.
- Do not attempt unloading operations on a side slope greater than 5 degrees and/or fore/aft slope greater than 20 percent. Before attempting to unload on slopes you must determine if ground surface conditions permit safe unloading operations. Slopes that contain snow, ice, loose gravel, or sand may not permit safe unloading. Failure to comply may result in injury or death to personnel.

CAUTION

- Trailer drawbar must be fully retracted and lowered before starting the unload process. Failure to comply may result in damage to equipment.
 - Use extreme caution when unloading container with side doors. Container must remain centered and doors must be closed at all times. Failure to comply may result in damage to equipment.
 - ECHU needs to be in stowed position prior to unloading, refer to TB 9-3950-253-13&P (WP 0057). Failure to comply may result in damage to equipment.
1. Fully retract and lower trailer drawbar (WP 0011) and stow cables.
 2. Remove lynch pin (Figure 21, Item 1) from clevis pin (Figure 21, Item 4).

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

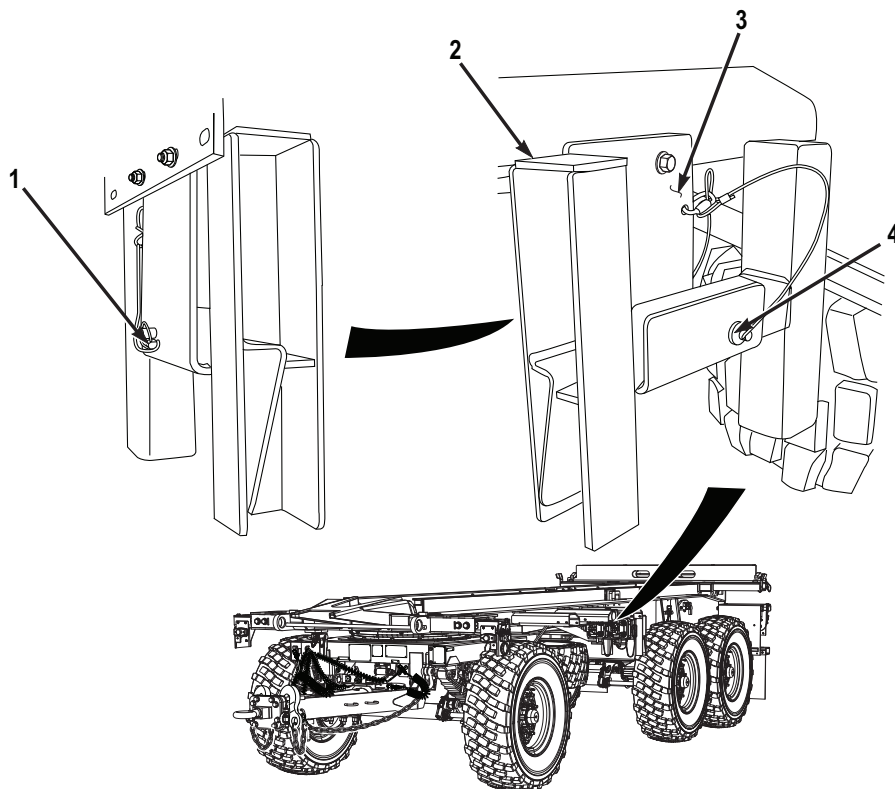


Figure 21. Transfer Container From Trailer To Vehicle With ECHU.

3. Remove clevis pin (Figure 21, Item 4) from bracket (Figure 21, Item 3) and bumper attachment (Figure 21, Item 2).
4. Remove bumper attachment (Figure 21, Item 2) from bracket (Figure 21, Item 3).

WARNING

Bumper attachment is not secured to trailer bumper. Use care when installing and working around bumper attachment as bumper attachment could fall off trailer bumper. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

5. Install bumper attachment (Figure 22, Item 1) on trailer bumper (Figure 22, Item 2).

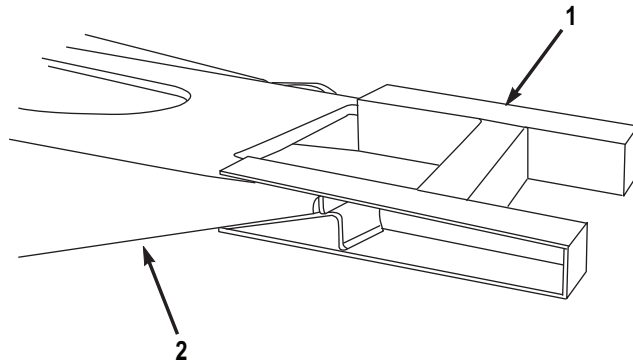


Figure 22. Transfer Container From Trailer To Vehicle With ECHU.

WARNING

Slider bracket on slider may swing down when pin is removed. Support slider bracket when removing pin. Failure to comply may result in injury or death to personnel.

NOTE

Slider brackets on both sliders are disengaged the same way. Left side shown.

6. Remove safety pin (Figure 23, Item 2) from hitch pin (Figure 23, Item 1).

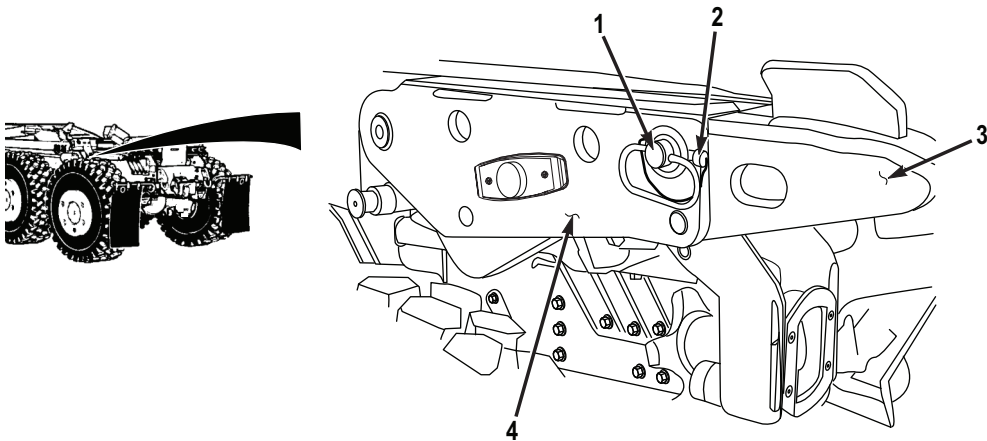
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 23. Transfer Container From Trailer To Vehicle With ECHU.

7. Remove hitch pin (Figure 23, Item 1) from slider bracket (Figure 23, Item 3) and slider (Figure 23, Item 4) and rotate slider bracket (Figure 23, Item 3) down.
8. Install hitch pin (Figure 23, Item 1) through slider (Figure 23, Item 4) and slider bracket (Figure 23, Item 3).
9. Install safety pin (Figure 23, Item 2) in hitch pin (Figure 23, Item 1).
10. Repeat Steps (6) through (9) for right side slider bracket.
11. Start engine. Refer to vehicle Operator's manual (WP 0057).
12. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
13. Place transmission range selector to REVERSE. Refer to vehicle Operator's manual (WP 0057).
14. Release parking brake. Refer to vehicle Operator's manual (WP 0057).

WARNING

Driver has limited vision to rear. Ground guide is required when driving vehicle in reverse. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**WARNING**

Do not stand between trailer and vehicle during backing procedures. Failure to comply may result in injury or death to personnel.

CAUTION

- Vehicle must be aligned with trailer. Failure to comply may result in damage to equipment.
 - Both of the bumper points must be under the vehicle bumper plate flange and at least one of the bumper points must contact the bumper plate. The bumper point not contacting the bumper plate cannot exceed 0.5 in. (12.7 mm) in distance from bumper plate or container will not load properly. Failure to comply may result in damage to equipment.
15. With the aid of an assistant, back up vehicle so that bumper attachment (Figure 24, Item 3) is under bumper plate flange (Figure 24, Item 2) and is in contact with bumper plate (Figure 24, Item 1). Refer to vehicle Operator's manual (WP 0057).

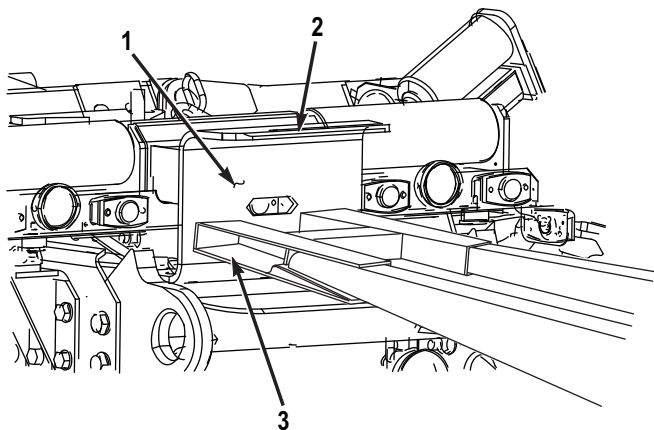


Figure 24. Transfer Container From Trailer To Vehicle With ECHU.

16. Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).
17. Place transmission range selector to NEUTRAL. Refer to vehicle Operator's manual (WP 0057).

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

18. Apply parking brake. Refer to vehicle Operator's manual (WP 0057).

NOTE

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

19. Remove two lynch pins (Figure 25, Item 2) from hitch pins (Figure 25, Item 1).

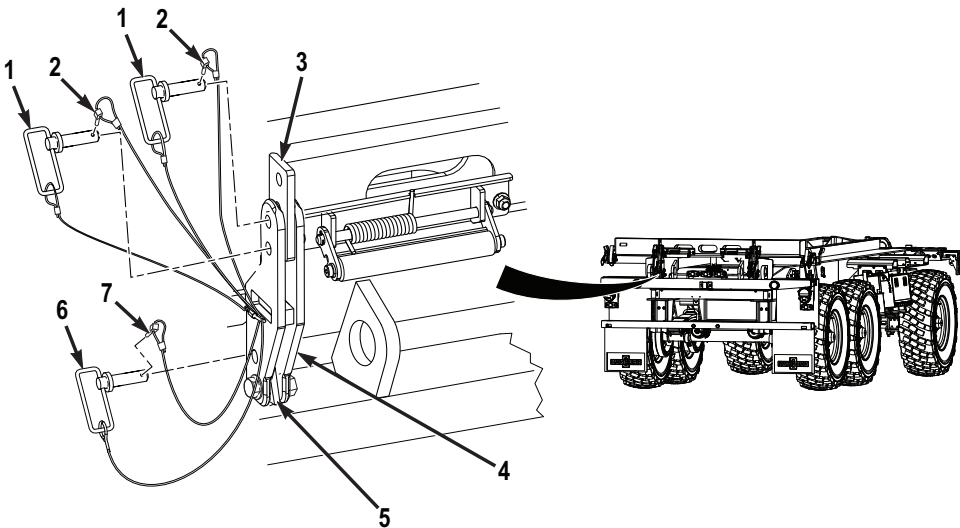


Figure 25. Transfer Container From Trailer To Vehicle With ECHU.

20. Remove two hitch pins (Figure 25, Item 1) from cart pivot bracket (Figure 25, Item 4) and cart bracket (Figure 25, Item 3).
21. Remove lynch pin (Figure 25, Item 7) from hitch pin (Figure 25, Item 6).

WARNING

Hands may get pinched if cart pivot bracket falls while removing pin. Support cart pivot bracket while removing pin to avoid pinching fingers between trailer and cart pivot bracket. Failure to comply may result in injury to personnel.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

22. Remove hitch pin (Figure 25, Item 6) from cart pivot bracket (Figure 25, Item 4) and trailer bracket (Figure 25, Item 5).
23. Rotate cart pivot bracket (Figure 25, Item 4) down.
24. Repeat Steps (19) through (23) for right side cart pivot bracket.

NOTE

Operator will have to use MAN H.A. and MAN M.F. hydraulic selections to install FLA.

25. Install FLA on container, align but do not install two lower locking plates of FLA. Refer to TB 9-3950-253-13&P (WP 0057).
26. Remove two crank handles (Figure 26, Item 1) from BII stowage box (Figure 26, Item 2).

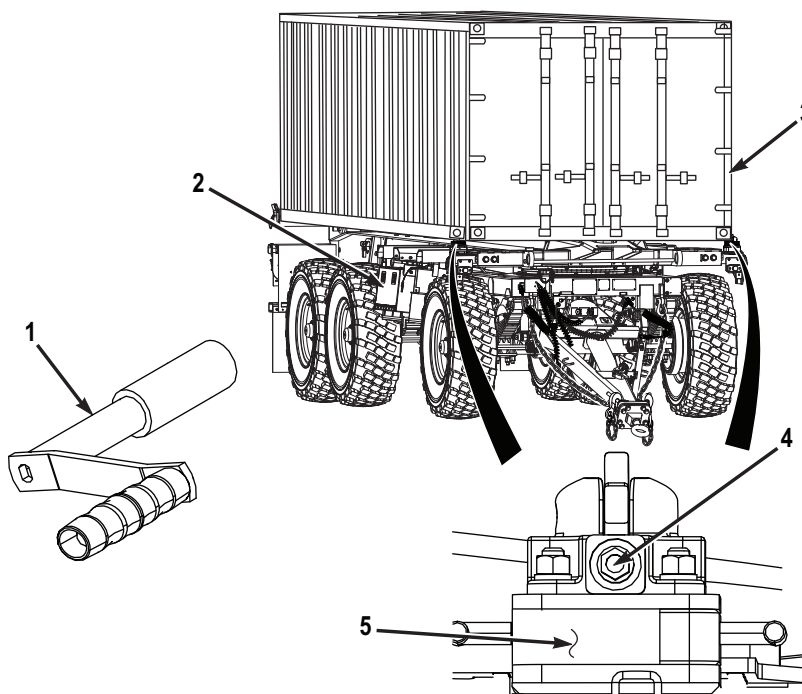


Figure 26. Transfer Container From Trailer To Vehicle With ECHU.

27. With the aid of a crank handle (Figure 26, Item 1), rotate ISO lock adjustment screws (Figure 26, Item 4) counterclockwise until ISO locks (Figure 26, Item 5) are fully unlocked from container (Figure 26, Item 3).

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**CAUTION**

ISO locks must be fully unlocked from container. Failure to comply may result in damage to equipment.

28. Ensure that both ISO locks (Figure 26, Item 5) are fully unlocked.
29. Stow two crank handles (Figure 26, Item 1) in BII stowage box (Figure 26, Item 2).
30. Install two lower locking plates of FLA on container (Figure 26, Item 3). Refer to TB 9-3950-253-13&P (WP 0057).

CAUTION

Ensure bumper attachment is under bumper plate flange and at least one of the bumper points is contacting the bumper plate. The bumper point not contacting the bumper plate cannot exceed 0.5 in. (12.7 mm) distance from bumper plate or container will not load properly. If bumper is not under bumper plate flange or one of the bumper points is not contacting the bumper plate, perform Steps (12) through (18). Failure to comply may result in damage to equipment.

31. Turn hydraulic selector switch to MAN H.A. position. Refer to vehicle Operator's manual (WP 0057).

WARNING

- Check for overhead power lines or other obstructions before attempting LHS operation. Failure to comply may result in injury or death to personnel.
- Ensure all personnel are clear of the vehicle, trailer, and container during LHS operations. Failure to comply may result in injury or death to personnel.

CAUTION

- Ensure trailer bumper attachment remains under vehicle bumper plate during unloading process. Failure to comply may result in damage to equipment.
- Trailer must be unloaded in Manual Mode. Failure to comply may result in damage to equipment.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

32. Move joystick to LOAD position until container (Figure 26, Item 3) is raised approximately 2 ft (610 mm). Refer to vehicle Operator's manual (WP 0057).
33. Release joystick. Refer to vehicle Operator's manual (WP 0057).
34. Remove crank handle (Figure 27, Item 1) from BII stowage box (Figure 27, Item 2).

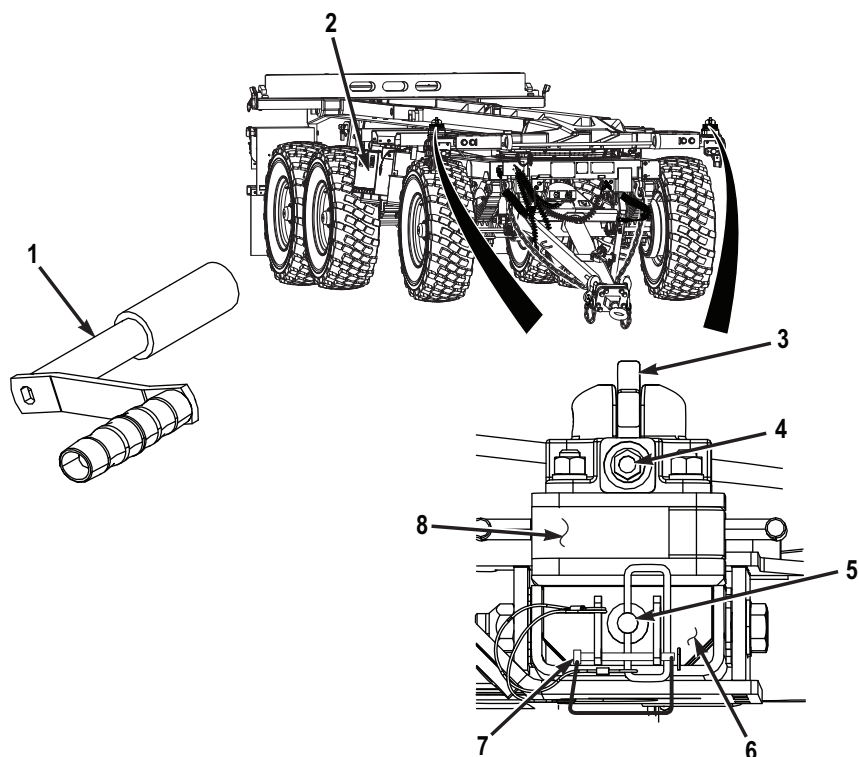


Figure 27. Transfer Container From Trailer To Vehicle With ECHU.

CAUTION

To minimize damage to ISO locks when they are stowed on ISO lock bracket, ensure ISO lock hook does not move. Failure to comply may result in damage to equipment.

NOTE

Both ISO locks are removed the same way. Right side shown.

35. With the aid of a crank handle (Figure 27, Item 1), rotate ISO lock adjustment screw (Figure 27, Item 4) clockwise until ISO lock hook (Figure 27, Item 3) does not move.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

36. Remove safety lock pin (Figure 27, Item 7) from ISO lock mount (Figure 27, Item 6).
37. Remove hitch pin (Figure 27, Item 5) from ISO lock (Figure 27, Item 8) and ISO lock mount (Figure 27, Item 6).
38. Remove ISO lock (Figure 27, Item 8) from ISO lock mount (Figure 27, Item 6).
39. Repeat Steps (35) through (38) for left side ISO lock.
40. Stow crank handle (Figure 27, Item 1) in BII stowage box (Figure 27, Item 2).
41. Turn hydraulic selector switch to AUTO position. Refer to vehicle Operator's manual (WP 0057).

WARNING

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

42. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
43. Continue to load container (Figure 28, Item 1) on vehicle until container (Figure 28, Item 1) comes in contact with center section of slider (Figure 28, Item 4) but does not lift cart (Figure 28, Item 2) from trailer (Figure 28, Item 3).

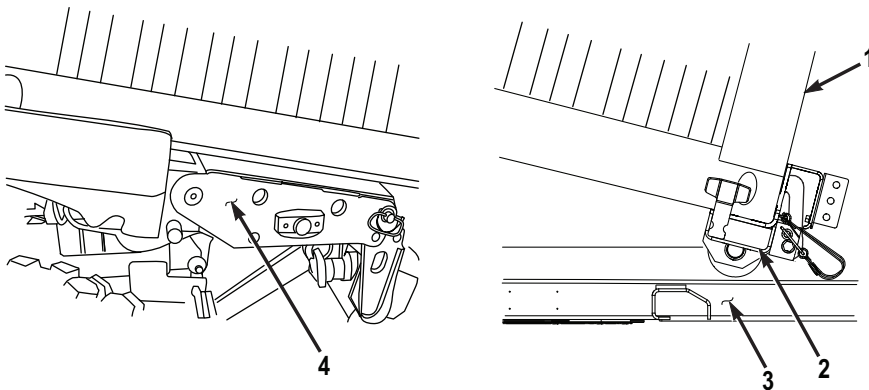


Figure 28. Transfer Container From Trailer To Vehicle With ECHU.

44. Release joystick. Refer to vehicle Operator's manual (WP 0057).

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**WARNING**

Cart weighs 433 lbs (197 kg). Cart must be in contact with trailer before unlocking container locks. Failure to comply may result in injury or death to personnel.

NOTE

Left side and right side container locks are unlocked the same way. Left side shown.

45. Remove lynch pin (Figure 29, Item 2) from hitch pin (Figure 29, Item 1).

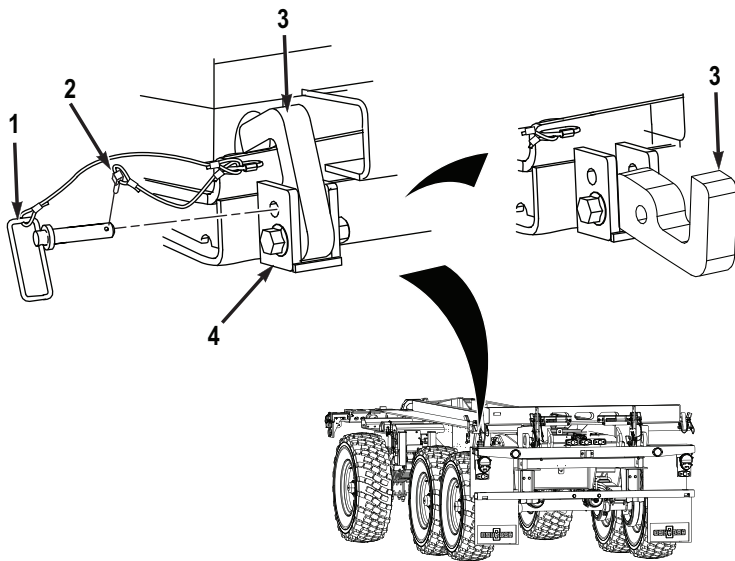


Figure 29. Transfer Container From Trailer To Vehicle With ECHU.

46. Remove hitch pin (Figure 29, Item 1) from container lock bracket (Figure 29, Item 4) and container lock (Figure 29, Item 3).
47. Rotate container lock (Figure 29, Item 3) to unlocked position.
48. Repeat Steps (45) through (47) for right side container lock.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**WARNING**

Ensure all personnel are clear of the vehicle, trailer, and cart during LHS operations. Failure to comply may result in serious injury or death to personnel.

49. Move joystick to LOAD position. Refer to vehicle Operator's manual (WP 0057).
50. Load container (Figure 30, Item 1) on vehicle.

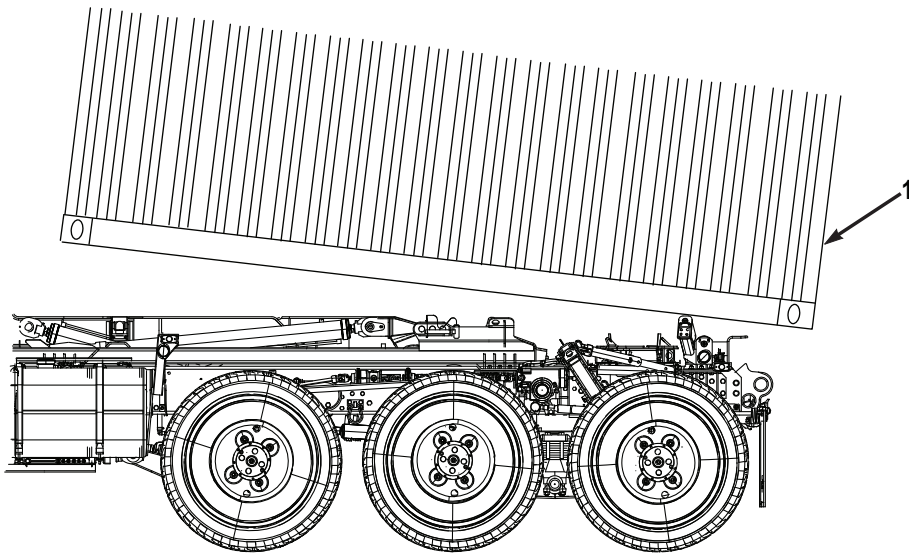


Figure 30. Transfer Container From Trailer To Vehicle With ECHU.

51. Release joystick. Refer to vehicle Operator's manual (WP 0057).
52. Drive vehicle forward. Refer to vehicle Operator's manual (WP 0057).

NOTE

Slider brackets on both sliders are disengaged the same way. Left side shown.

53. Remove safety pin (Figure 31, Item 2) from hitch pin (Figure 31, Item 1).

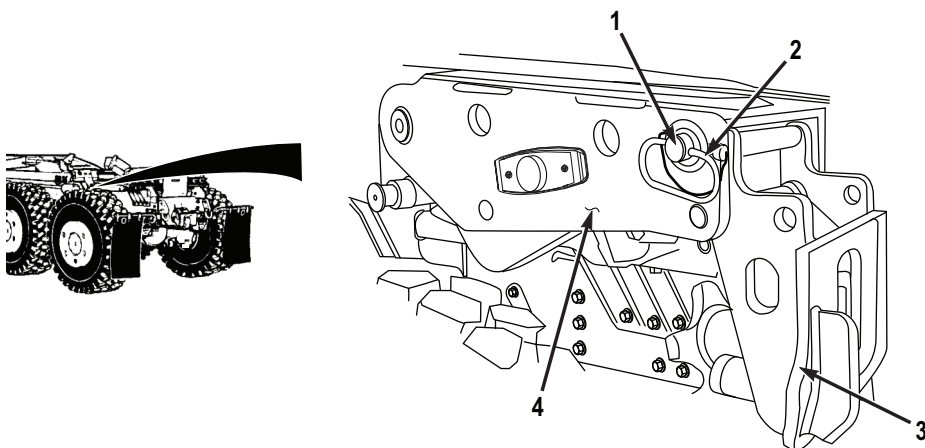
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 31. Transfer Container From Trailer To Vehicle With ECHU.

54. Remove hitch pin (Figure 31, Item 1) from slider bracket (Figure 31, Item 3) and slider (Figure 31, Item 4) and rotate slider bracket (Figure 31, Item 3) up.
55. Install hitch pin (Figure 31, Item 1) through slider (Figure 31, Item 4) and slider bracket (Figure 31, Item 3).
56. Install safety pin (Figure 31, Item 2) in hitch pin (Figure 31, Item 1).
57. Repeat Steps (53) through (56) for right side slider bracket.
58. Secure twist locks and transport locks. Refer to TB 9-3950-253-13&P (WP 0057).

NOTE

Both ISO lock mount pins are installed the same way. Right side shown.

59. Install hitch pin (Figure 32, Item 1) on ISO lock mount (Figure 32, Item 2).

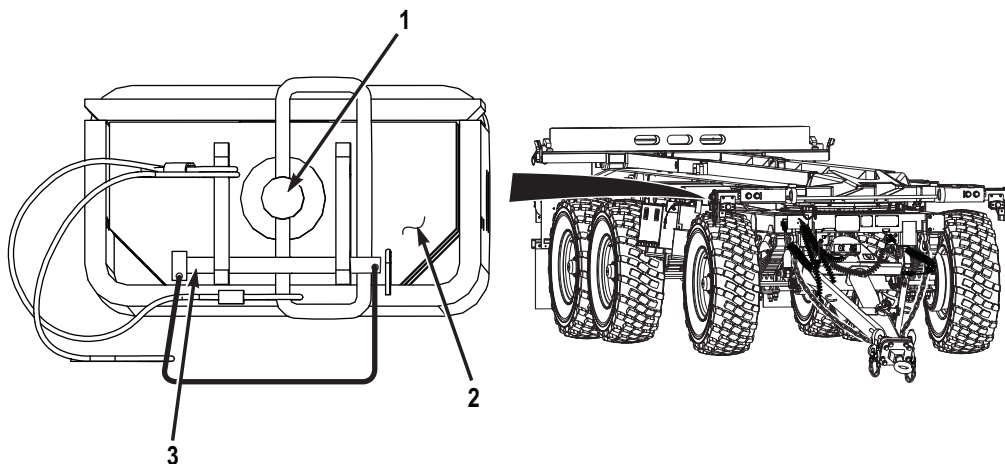
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 32. Transfer Container From Trailer To Vehicle With ECHU.

60. Install safety lock pin (Figure 32, Item 3) on ISO lock mount (Figure 32, Item 2).
61. Repeat Steps (59) and (60) for left side.

CAUTION

To minimize damage to ISO lock adjustment screw, install ISO lock facing inboard. Failure to comply may result in damage to equipment.

NOTE

- Both ISO locks are installed the same way. Inboard ISO lock shown.
 - Install ISO locks as noted prior to removal.
62. Install ISO lock (Figure 33, Item 3) on ISO lock bracket (Figure 33, Item 2) with gravity lock hitch pin (Figure 33, Item 1).

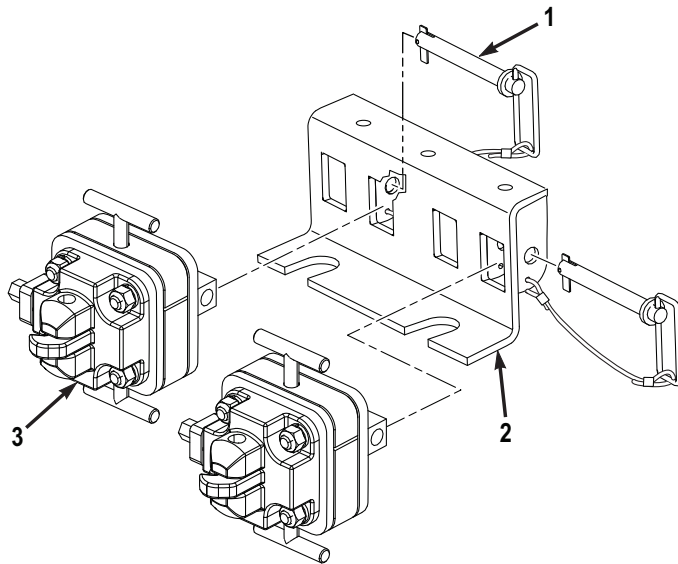
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 33. Transfer Container From Trailer To Vehicle With ECHU.

63. Repeat Step (62) for outboard ISO lock.

NOTE

Left side and right side container locks are locked the same way. Left side shown.

64. Rotate container lock (Figure 34, Item 1) to locked position.

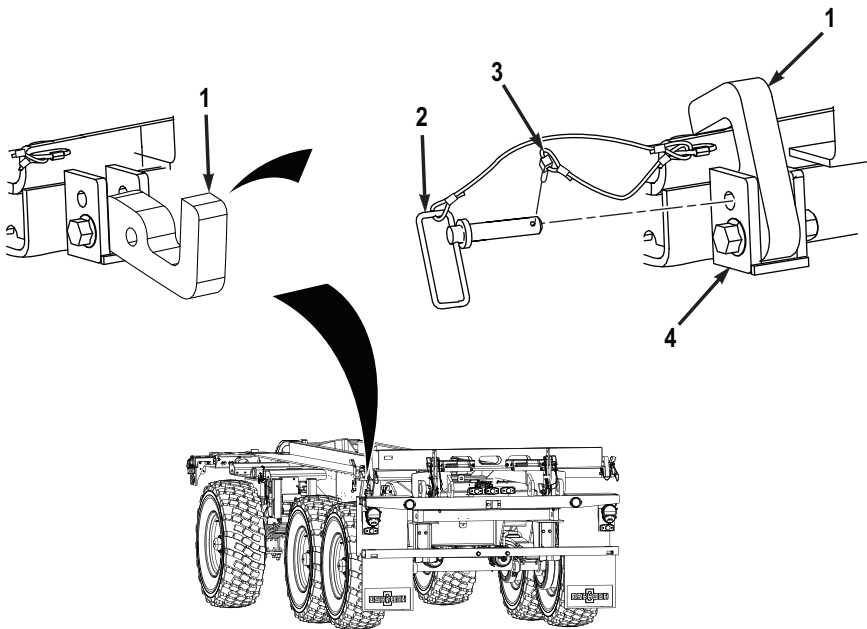
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 34. Transfer Container From Trailer To Vehicle With ECHU.

65. Install hitch pin (Figure 34, Item 2) in container lock bracket (Figure 34, Item 4) and container lock (Figure 34, Item 1).
66. Install lynch pin (Figure 34, Item 3) in hitch pin (Figure 34, Item 2).
67. Repeat Steps (64) through (66) for right side container lock.

WARNING

Do not hold pivot bracket or put hand between pivot bracket and cart when moving cart. Hands and fingers may be pinched between pivot bracket and cart as cart is being moved. As cart reaches last two feet of travel cart will accelerate quickly to rear of trailer. Failure to comply may result in injury or death to personnel.

TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued**CAUTION**

Ensure cart path is free of debris prior to moving cart. Failure to comply may result in damage to equipment.

68. With the aid of an assistant, roll cart (Figure 35, Item 1) to rear of trailer (Figure 35, Item 2).

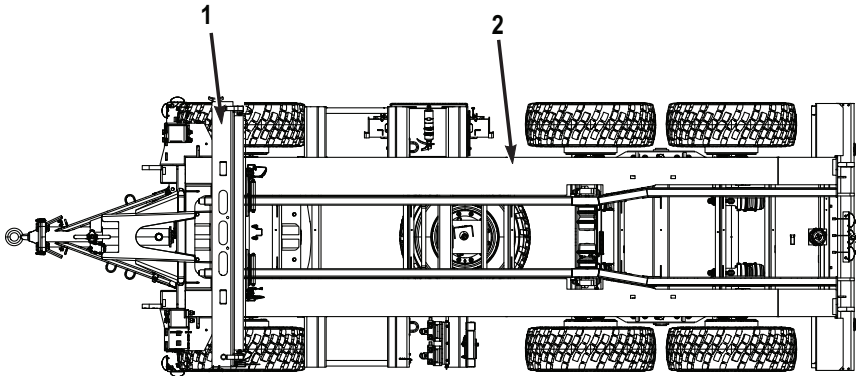


Figure 35. Transfer Container From Trailer To Vehicle With ECHU.

NOTE

Left side and right side hitch pins and lynch pins are installed the same way. Left side shown.

69. With aid of an assistant, rotate cart pivot bracket (Figure 36, Item 4) up until two holes are aligned with bottom holes in cart bracket (Figure 36, Item 3) and install two hitch pins (Figure 36, Item 1) in cart pivot bracket (Figure 36, Item 4) and cart bracket (Figure 36, Item 3).

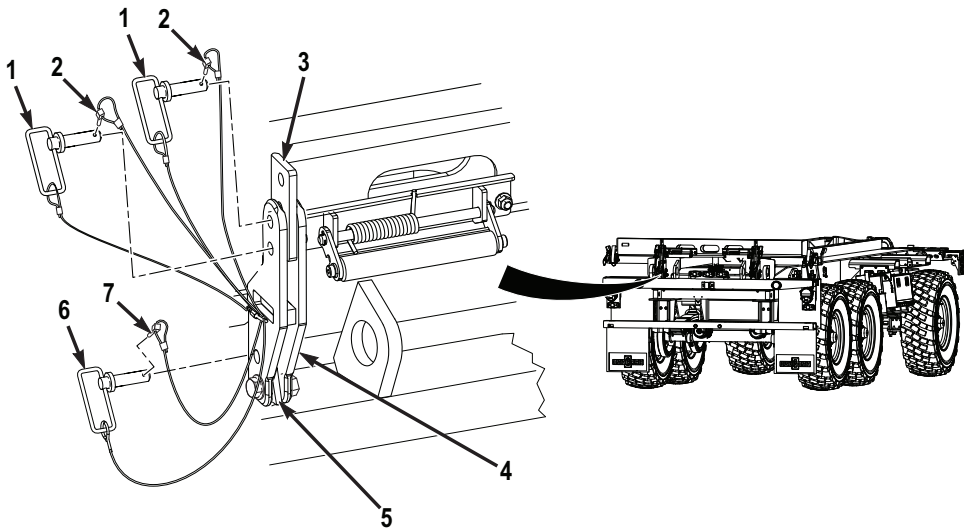
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 36. Transfer Container From Trailer To Vehicle With ECHU.

70. Install two lynch pins (Figure 36, Item 2) in hitch pins (Figure 36, Item 1).
71. Install hitch pin (Figure 36, Item 6) in cart pivot bracket (Figure 36, Item 4) and trailer bracket (Figure 36, Item 5).
72. Install lynch pin (Figure 36, Item 7) in hitch pin (Figure 36, Item 6).
73. Repeat Steps (69) through (72) for right side cart pivot bracket.
74. Remove bumper attachment (Figure 37, Item 1) from trailer bumper (Figure 37, Item 2).

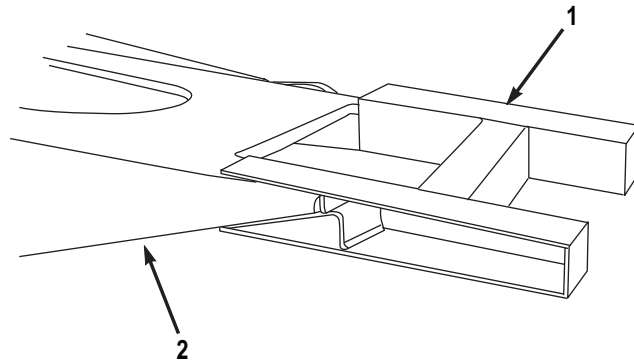
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 37. Transfer Container From Trailer To Vehicle With ECHU.

75. Position bumper attachment (Figure 38, Item 2) on bracket (Figure 38, Item 3).

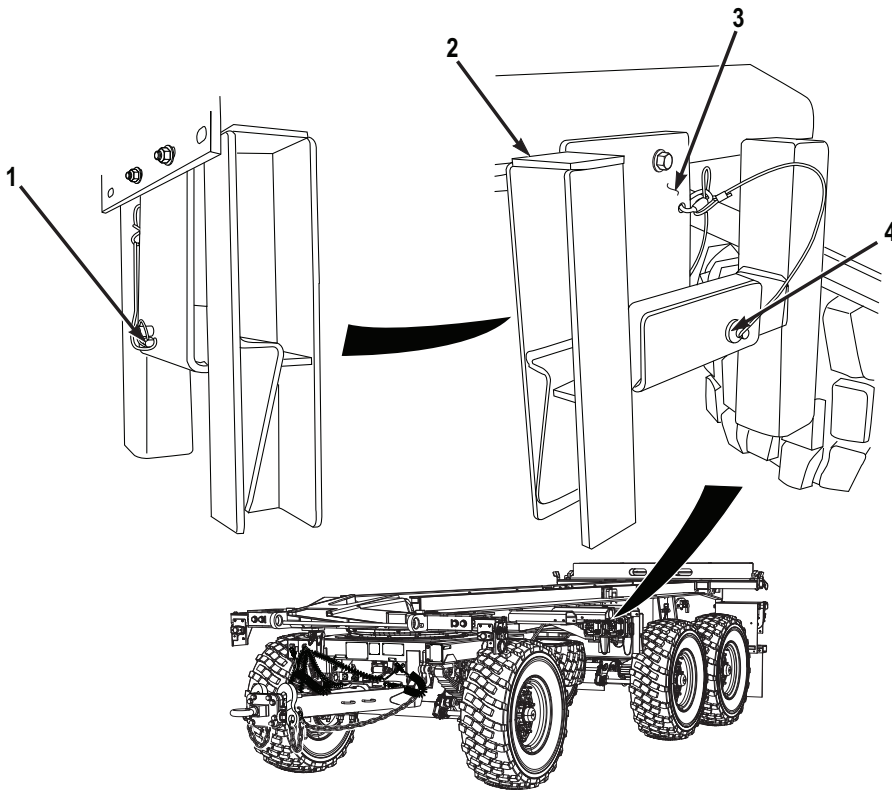
TRANSFER CONTAINER FROM TRAILER TO VEHICLE - Continued

Figure 38. Transfer Container From Trailer To Vehicle With ECHU.

76. Install clevis pin (Figure 38, Item 4) on bracket (Figure 38, Item 3) and bumper attachment (Figure 38, Item 2).
77. Install lynch pin (Figure 38, Item 1) on clevis pin (Figure 38, Item 4).

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE CART HAND WINCH OPERATION

INITIAL SETUP:

Equipment Condition

Wheels chocked. (WP 0020)

CART HAND WINCH OPERATION AT FRONT OF TRAILER

1. Remove cart hand winch (Figure 1, Item 6) and crank handle (Figure 1, Item 7) from BII stowage box (Figure 1, Item 1).

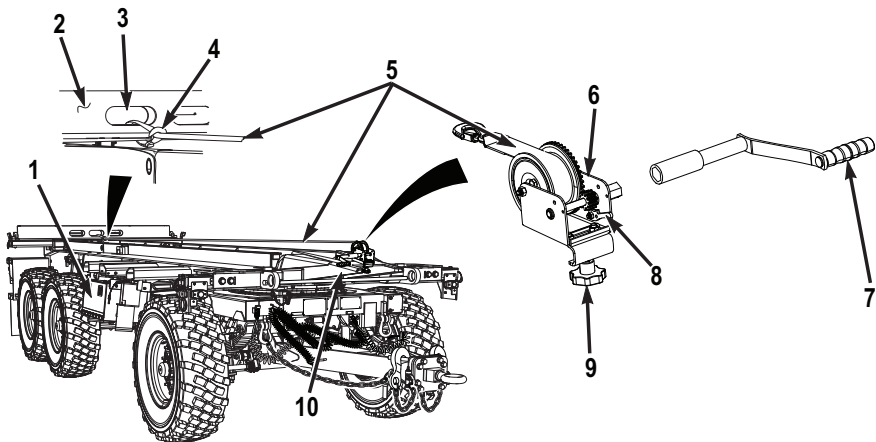


Figure 1. Cart Hand Winch Operation at Front of Trailer.

2. Install cart hand winch (Figure 1, Item 6) on trailer bumper (Figure 1, Item 10) and turn knob (Figure 1, Item 9) clockwise until cart hand winch (Figure 1, Item 6) is secure.
3. Push winch lock (Figure 1, Item 8) down to OFF position.
4. Pull strap (Figure 1, Item 5) to cart (Figure 1, Item 2).
5. Route strap (Figure 1, Item 5) through center hole (Figure 1, Item 3) and around bottom of cart (Figure 1, Item 2).
6. Attach strap hook (Figure 1, Item 4) to strap (Figure 1, Item 5).

CART HAND WINCH OPERATION AT FRONT OF TRAILER - Continued**NOTE**

Left side and right side hitch pins and lynch pins are removed the same way. Left side shown.

7. Remove two lynch pins (Figure 2, Item 2) from hitch pins (Figure 2, Item 1).

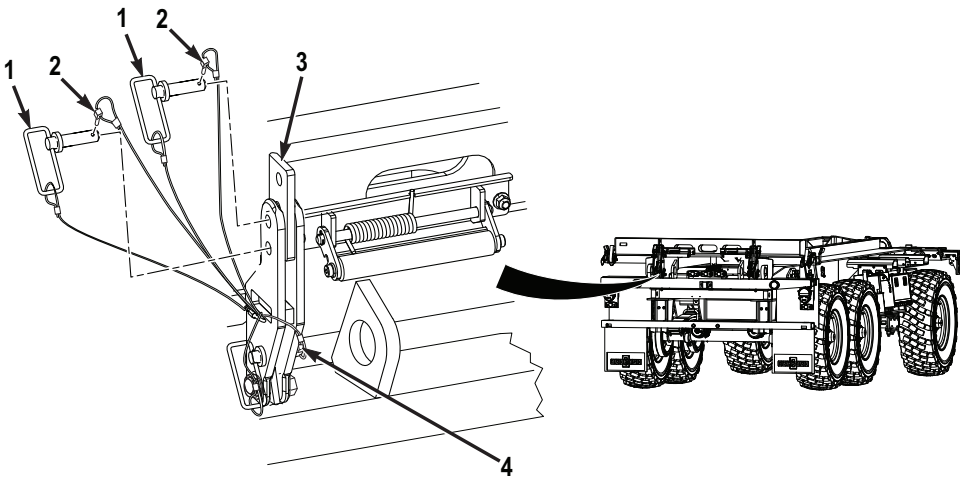


Figure 2. Cart Hand Winch Operation at Front of Trailer.

8. Remove two hitch pins (Figure 2, Item 1) from cart pivot bracket (Figure 2, Item 4) and cart bracket (Figure 2, Item 3).
9. Repeat Steps (7) and (8) for right side cart pivot bracket.
10. Install crank handle (Figure 3, Item 4) on cart hand winch (Figure 3, Item 3).

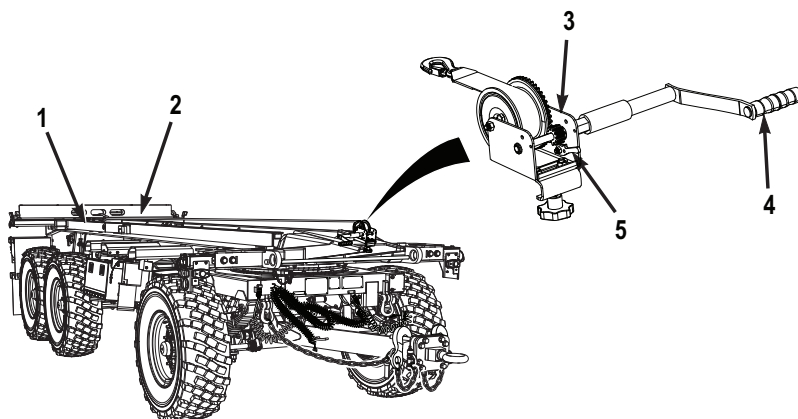
CART HAND WINCH OPERATION AT FRONT OF TRAILER - Continued

Figure 3. Cart Hand Winch Operation at Front of Trailer.

11. Push winch lock (Figure 3, Item 5) up to ON position.

CAUTION

Ensure cart path is free of debris prior to moving cart. Failure to comply may result in damage to equipment.

NOTE

Adjust cart as needed to ensure cart is centered on rails as cart is being winched forward.

12. Rotate crank handle (Figure 3, Item 4) clockwise until cart (Figure 3, Item 2) is positioned at front of trailer (Figure 3, Item 1).
13. Push winch lock (Figure 3, Item 5) down to OFF position.
14. Remove strap (Figure 4, Item 2) from cart (Figure 4, Item 1).

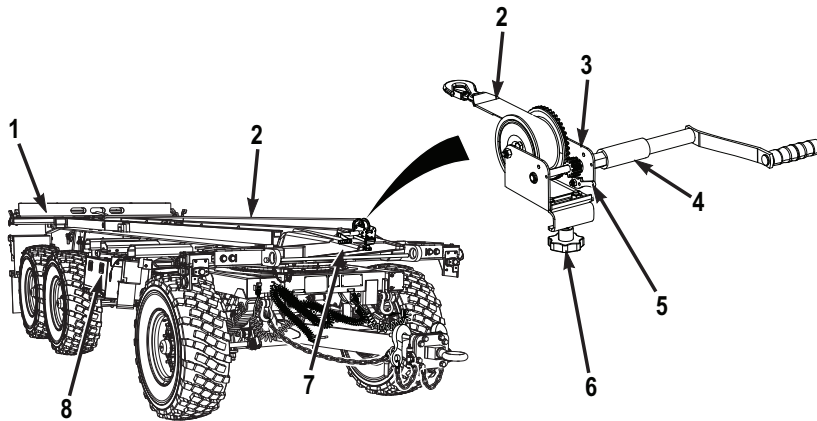
CART HAND WINCH OPERATION AT FRONT OF TRAILER - Continued

Figure 4. Cart Hand Winch Operation at Front of Trailer.

15. Push winch lock (Figure 4, Item 5) up to ON position.
16. Rotate crank handle (Figure 4, Item 4) clockwise until strap (Figure 4, Item 2) is completely wound on cart hand winch (Figure 4, Item 3).
17. Remove crank handle (Figure 4, Item 4) from cart hand winch (Figure 4, Item 3).
18. Rotate knob (Figure 4, Item 6) counterclockwise and remove cart hand winch (Figure 4, Item 3) from trailer bumper (Figure 4, Item 7).
19. Stow crank handle (Figure 4, Item 4) and cart hand winch (Figure 4, Item 3) in BII stowage box (Figure 4, Item 8).

END OF TASK**CART HAND WINCH OPERATION AT REAR OF TRAILER**

1. Remove cart hand winch (Figure 5, Item 2), winch mount (Figure 5, Item 4), and crank handle (Figure 5, Item 7) from BII stowage box (Figure 5, Item 1).

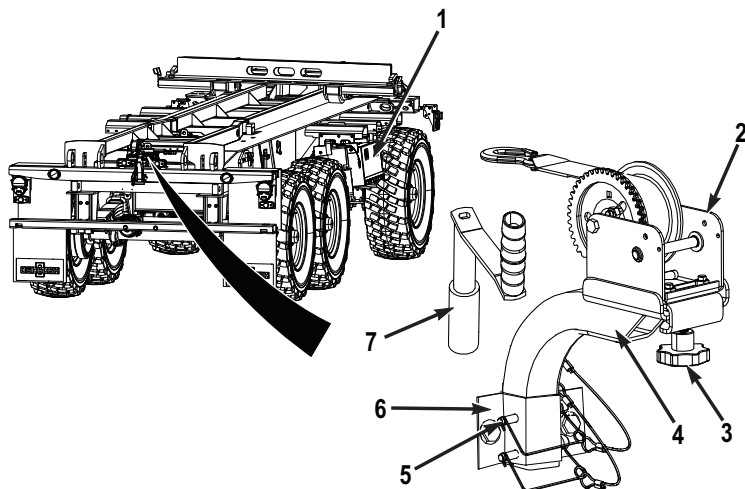
CART HAND WINCH OPERATION AT REAR OF TRAILER - Continued

Figure 5. Cart Hand Winch Operation at Rear of Trailer.

2. Install winch mount (Figure 5, Item 4) on trailer winch mount bracket (Figure 5, Item 6).
3. Install two safety lock pins (Figure 5, Item 5) in trailer winch mount bracket (Figure 5, Item 6) and winch mount (Figure 5, Item 4).
4. Install cart hand winch (Figure 5, Item 2) on winch mount (Figure 5, Item 4) and turn knob (Figure 5, Item 3) clockwise until cart hand winch (Figure 5, Item 2) is secure.
5. Push winch lock (Figure 6, Item 8) down to OFF position.

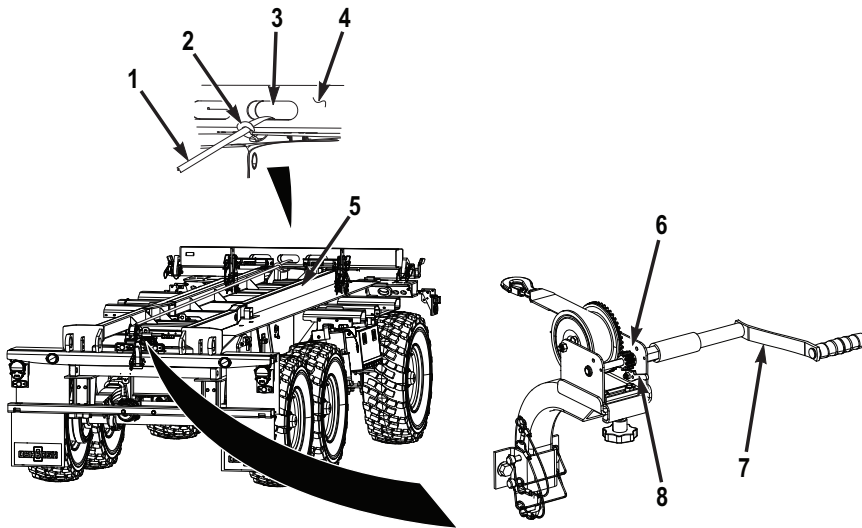
CART HAND WINCH OPERATION AT REAR OF TRAILER - Continued

Figure 6. Cart Hand Winch Operation at Rear of Trailer.

6. Pull strap (Figure 6, Item 1) to cart (Figure 6, Item 4).
7. Route strap (Figure 6, Item 1) through center hole (Figure 6, Item 3) and around bottom of cart (Figure 6, Item 4).
8. Attach strap hook (Figure 6, Item 2) to strap (Figure 6, Item 1).
9. Install crank handle (Figure 6, Item 7) on cart hand winch (Figure 6, Item 6).
10. Push winch lock (Figure 6, Item 8) up to ON position.

WARNING

Do not hold pivot bracket or put hand between pivot bracket and cart when moving cart. Hands and fingers may be pinched between pivot bracket and cart as cart is being moved. As cart reaches last two feet of travel cart will accelerate quickly to rear of trailer. Failure to comply may result in injury or death to personnel.

CART HAND WINCH OPERATION AT REAR OF TRAILER - Continued**CAUTION**

Ensure cart path is free of debris prior to moving cart. Failure to comply may result in damage to equipment.

11. Rotate crank handle (Figure 6, Item 7) clockwise until cart (Figure 6, Item 4) is positioned at rear of trailer (Figure 6, Item 5).

NOTE

Left side and right side hitch pins and lynch pins are installed the same way. Left side shown.

12. Install two hitch pins (Figure 7, Item 1) in cart pivot bracket (Figure 7, Item 4) and cart bracket (Figure 7, Item 3).

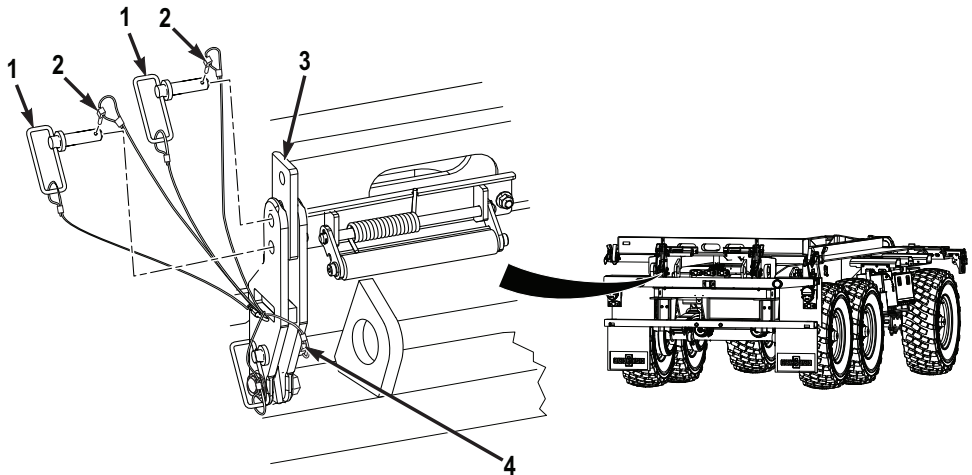


Figure 7. Cart Hand Winch Operation at Rear of Trailer.

13. Install two lynch pins (Figure 7, Item 2) in hitch pins (Figure 7, Item 1).
14. Repeat Steps (12) and (13) for right side cart pivot bracket.
15. Remove strap (Figure 8, Item 3) from cart (Figure 8, Item 1).

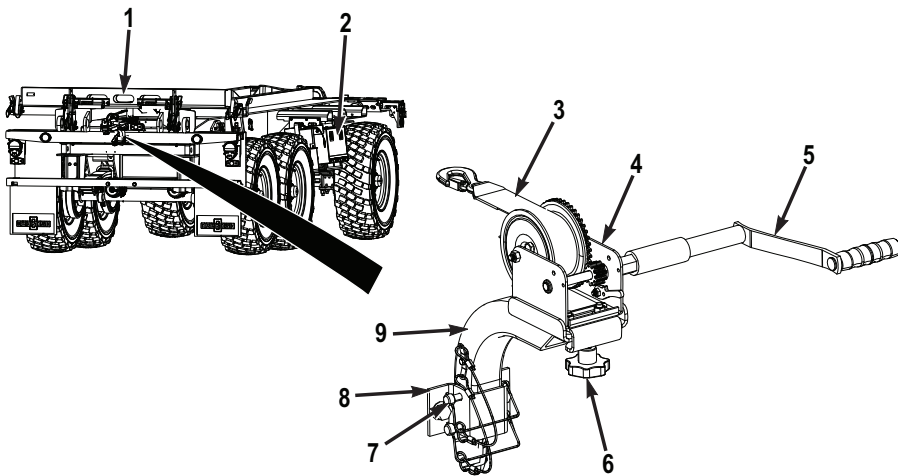
CART HAND WINCH OPERATION AT REAR OF TRAILER - Continued

Figure 8. Cart Hand Winch Operation at Rear of Trailer.

16. Rotate crank handle (Figure 8, Item 5) clockwise until strap (Figure 8, Item 3) is completely wound on cart hand winch (Figure 8, Item 4).
17. Remove crank handle (Figure 8, Item 5) from cart hand winch (Figure 8, Item 4).
18. Rotate knob (Figure 8, Item 6) counterclockwise and remove cart hand winch (Figure 8, Item 4) from winch mount (Figure 8, Item 9).
19. Remove two safety pins (Figure 8, Item 7) from winch mount (Figure 8, Item 9) and trailer winch mount bracket (Figure 8, Item 8).
20. Remove winch mount (Figure 8, Item 9) from trailer winch mount bracket (Figure 8, Item 8).
21. Stow cart hand winch (Figure 8, Item 4), crank handle (Figure 8, Item 5), and winch mount (Figure 8, Item 9) in BII stowage box (Figure 8, Item 2).

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE DECALS AND INSTRUCTION PLATES

INITIAL SETUP:

Not Applicable

The locations of the decals and instruction plates on the trailer are shown below.

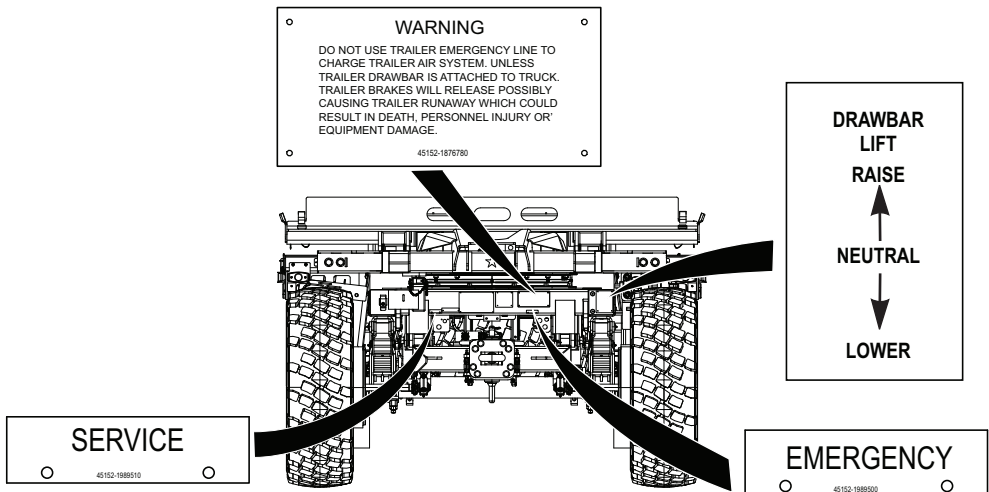


Figure 1. Decals and Instruction Plates.

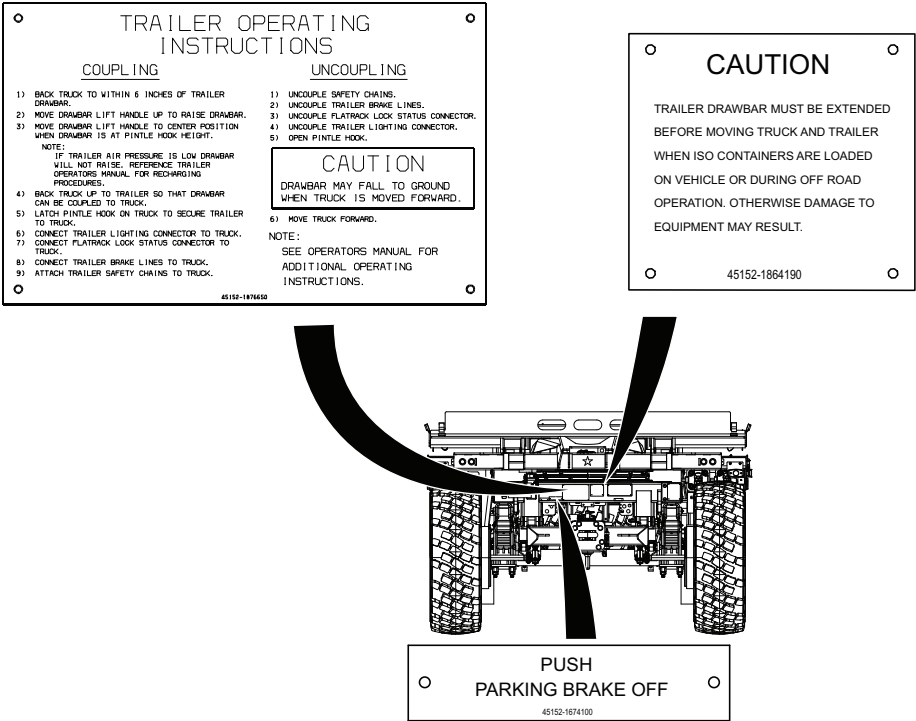


Figure 2. Decals and Instruction Plates.

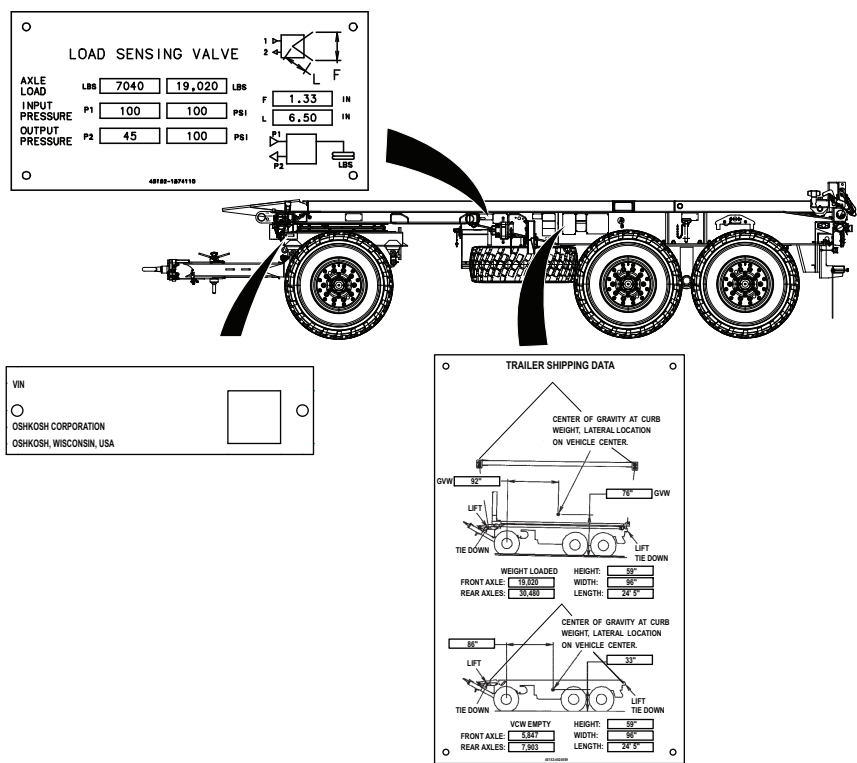


Figure 3. Decals and Instruction Plates.

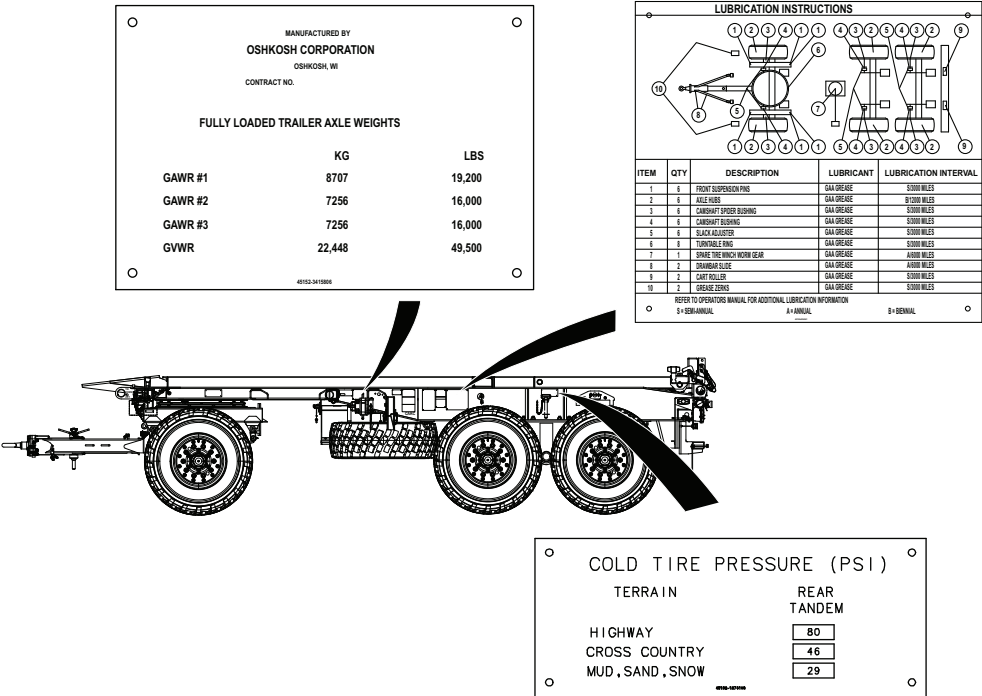


Figure 4. Decals and Instruction Plates.

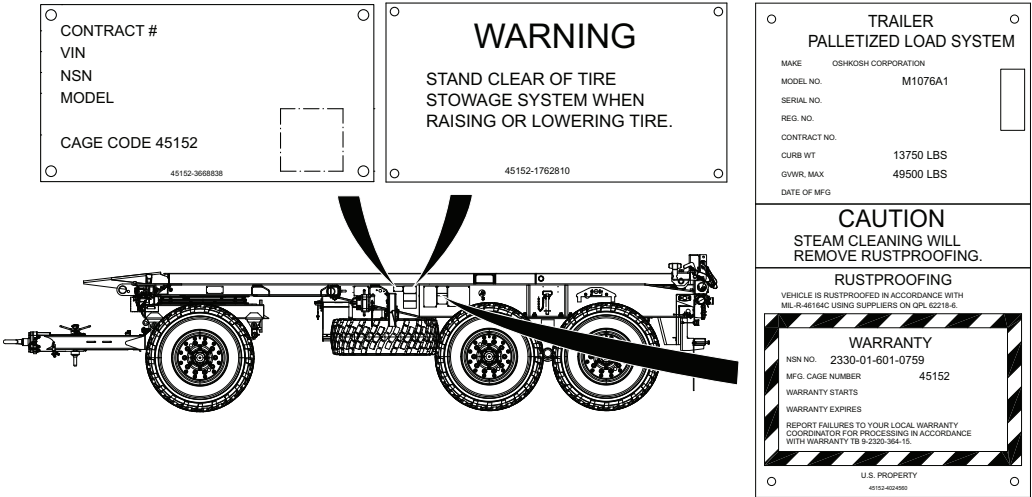


Figure 5. Decals and Instruction Plates.

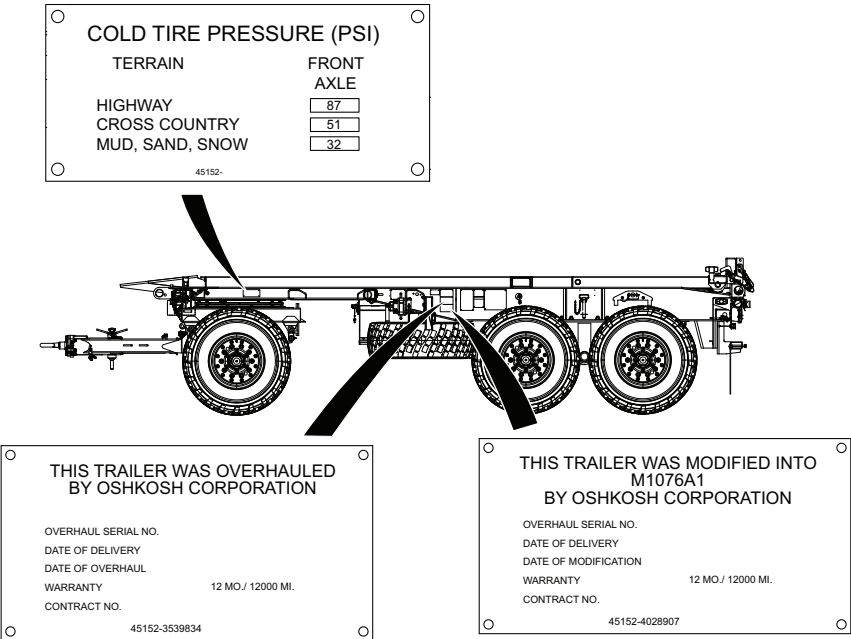


Figure 6. Decals and Instruction Plates.

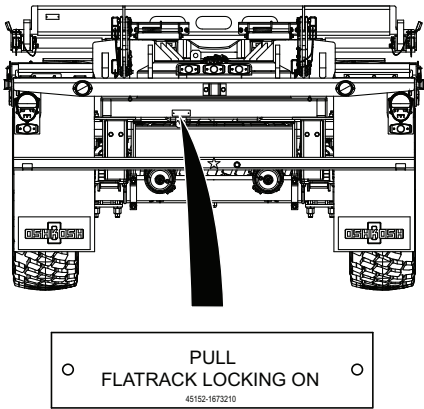


Figure 7. Decals and Instruction Plates.

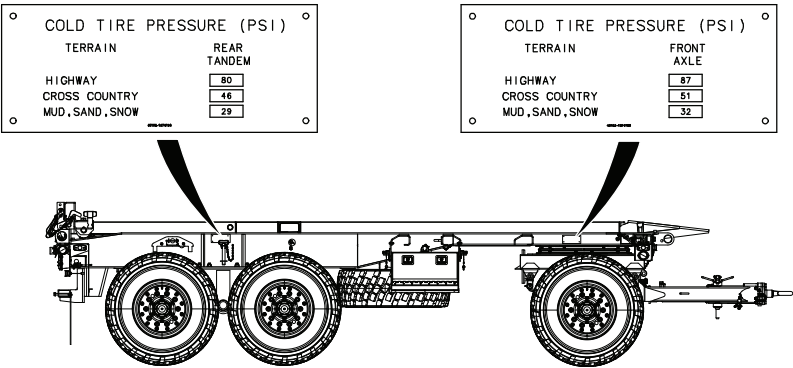


Figure 8. Decals and Instruction Plates.

END OF TASK

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
OPERATE IN EXTREME SAND OR MUD**

INITIAL SETUP:

Not Applicable

Driving in mud can degrade braking and speed up brake shoe wear. If braking worsens while operating in mud, dry brakes by driving vehicle and trailer approximately 500 ft (153 m) with service brakes frequently applied. This must be done with brake drums totally out of mud so that drying action can take place. If adequate braking is not restored by drying brakes, notify Field Maintenance.

END OF TASK**END OF WORK PACKAGE**

**OPERATOR MAINTENANCE
OPERATE IN DESERT ENVIRONMENT**

INITIAL SETUP:**References**

FM 90-3 (WP 0057)
WP 0030

Refer to FM 90-3 (WP 0057) for detailed instructions for living and working in desert. Principles for operating in sand or mud (WP 0030) apply.

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE OPERATE IN COLD WEATHER ENVIRONMENT

INITIAL SETUP:

References

ATTP 3-97.11 (WP 0057)

References (cont.)

FM 9-207 (WP 0057)

TC 21-305-20 (WP 0057)

DRIVE ON MUD, SNOW, ICE, AND SLIPPERY SURFACES

CAUTION

- Before operating trailer in severe cold environment, make sure it has been prepared as described in FM 9-207 (WP 0057). Refer to ATTP 3-97.11 (WP 0057) and TC 21-305-20 (WP 0057) for additional information on operation in cold environment. Failure to prepare trailer properly could cause damage to equipment.
- Park in shelter when possible. If shelter is not available, park so trailer does not face wind. Place planks or brush under wheels so trailer will not freeze in place. Failure to park properly may cause damage to trailer.
- Drain air reservoirs after operation. Water in air system could freeze and block system causing damage to equipment.
- All snow and ice should be removed from trailer as soon as possible or damage to equipment could result.

NOTE

Refer to vehicle Operator's manual (WP 0057) for detailed operation procedures.

1. Accelerate and decelerate the towing vehicle gradually.
2. Keep towing vehicle speed as steady as possible after vehicle reaches desired speed.
3. Turn vehicle and trailer slowly when on slippery surfaces.
4. Steer vehicle and trailer away from ruts and large snow banks.
5. Steer vehicle and trailer straight up and down hills if possible.
6. Refer to vehicle Operator's manual (WP 0057) and select the appropriate transmission range to go down medium grades.

DRIVE ON MUD, SNOW, ICE, AND SLIPPERY SURFACES - Continued

7. Drive at slower speeds and keep twice the normal distance from vehicle ahead.
8. Use turn signals sooner.

WARNING

Apply engine brake only when vehicle and trailer tires have good traction. Use of engine brake on slick surfaces can cause vehicle and trailer to skid. Failure to comply may result in injury or death to personnel.

NOTE

Pressing brake lightly will help keep vehicle and trailer from skidding.

9. Apply brakes sooner and press brake pedal lightly to give early warning that vehicle will slow or stop. Refer to vehicle Operator's manual (WP 0057).
10. Refer to vehicle Operator's manual (WP 0057) and downshift, if necessary, when slowing or stopping vehicle and on slick surfaces.
11. Keep stoplights and clearance lights clean and free of snow and ice.

END OF TASK**BRAKES SLIPPING, SLIDING VEHICLE/TRAILER AND CENTRAL TIRE INFLATION SYSTEM (CTIS) USE**

1. Drive slowly and test brakes after driving through slush or water. If brakes slip, perform the following:
 - a. Continue to drive slowly.
 - b. Apply moderate pressure on brake pedal of towing vehicle to cause slight brake drag. Refer to vehicle Operator's manual (WP 0057).
 - c. When brakes are dry and no longer slip, let up on brake pedal. Refer to vehicle Operator's manual (WP 0057).

NOTE

Refer to TC 21-305-20 (WP 0057) or vehicle Operator's manual (WP 0057) for additional information on driving in dangerous conditions.

- d. Resume normal driving speed.
2. If rear of vehicle and trailer skids, do the following:
 - a. Let up on throttle control. Refer to vehicle Operator's manual (WP 0057).

BRAKES SLIPPING, SLIDING VEHICLE/TRAILER AND CENTRAL TIRE INFLATION SYSTEM (CTIS) USE - Continued

- b. Steer in same direction in which vehicle is skidding.
 - c. When vehicle and trailer is under control, press vehicle brake pedal lightly. Refer to vehicle Operator's manual (WP 0057).
 - d. Steer vehicle and trailer on straight course and slowly press throttle control.
- 3. If towing vehicle and trailer starts to slide while climbing hill, do the following:
 - a. Let up on throttle control of towing vehicle. Refer to vehicle Operator's manual (WP 0057).
 - b. Steer vehicle and trailer in direction of slide until vehicle and trailer stops.
 - c. Slowly press throttle control on towing vehicle and steer vehicle and trailer on straight course. Refer to vehicle Operator's manual (WP 0057).
- 4. If towing vehicle is equipped with a CTIS and it is absolutely necessary for better traction, refer to vehicle Operator's manual (WP 0057) and set CTIS switch to Emergency. Drive at low speed (5 mph [8 km/h]) when tire air pressures are reduced. Refer to vehicle Operator's manual (WP 0057).

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE DEEP WATER FORDING

INITIAL SETUP:

Not Applicable

DEEP WATER FORDING

WARNING

Do not ford water unless depth is known. Water deeper than 4 ft (1.22 m) may enter vehicle. Failure to comply may result in injury or death to personnel.

1. Ensure depth of fording site is not more than 4 ft (1.22 m).
2. Ensure bottom at fording site is firm enough that 4 ft (1.22 m) maximum fording depth will not be exceeded and trailer will not become mired.
3. Stop vehicle and trailer at edge of water.
4. If brakes have been used heavily and are hot, allow drums and shoes to cool before entering water if possible.
5. Drive vehicle and trailer slowly into water.
6. Drive at 3 to 4 mph (5 to 6 km/h), or less, through water.
7. Unless absolutely necessary, do not stop while in water.
8. If vehicle and trailer accidentally enters water deeper than 4 ft (1.22 m), slowly back vehicle and trailer out of deep water.
9. After leaving water, press brake pedal lightly and hold while driving slowly to dry out brake linings.
10. When clear of fording area, stop vehicle and trailer.
11. Apply and release parking brake several times to remove water from brake components.
12. Remove water and clean deposits from all trailer parts as soon as possible.

DEEP WATER FORDING - Continued

13. Lubricate and perform PMCS check as soon as possible.

END OF TASK

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
EMERGENCY PROCEDURES**

INITIAL SETUP:**References**

(WP 0010)

(WP 0057)

LOSS OF AIR SUPPLY SYSTEM PRESSURE WHILE DRIVING

1. Refer to vehicle Operator's manual for driving instructions in the event of air system failure (WP 0057).
2. Look for place to stop vehicle and trailer without blocking other traffic.
3. Downshift, as needed, to control vehicle speed until place is found to stop.
4. Refer to troubleshooting as soon as possible.

DRAWBAR OPERATIONS WITH AIR SYSTEM FAILURE

1. Raise drawbar:
 - a. Remove a stowage strap (Figure 1, Item 3) from stowage box.

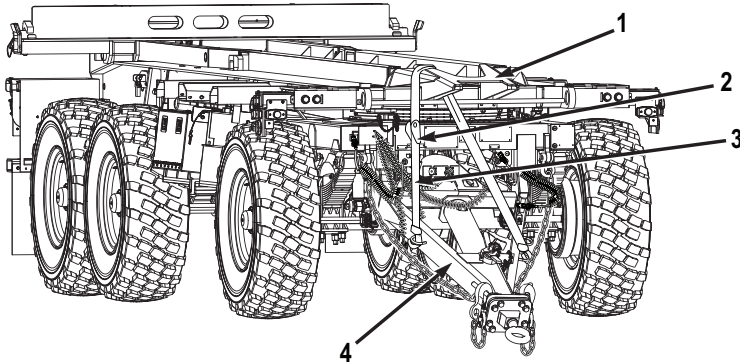
DRAWBAR OPERATIONS WITH AIR SYSTEM FAILURE - Continued

Figure 1. Emergency Procedures.

- b. Install strap (Figure 1, Item 3) through drawbar (Figure 1, Item 4) and trailer bumper (Figure 1, Item 1) and connect ends of strap together.
 - c. Use ratchet (Figure 1, Item 2) on strap (Figure 1, Item 3) to raise drawbar (Figure 1, Item 4) to allow trailer hookup.
 - d. Connect trailer to vehicle (WP 0010).
 - e. Remove strap (Figure 1, Item 3) from drawbar (Figure 1, Item 4).
 - f. Place stowage strap (Figure 1, Item 3) in stowage box.
2. Lower drawbar:
 - a. Remove a stowage strap (Figure 1, Item 3) from stowage box.
 - b. Install strap (Figure 1, Item 3) through drawbar (Figure 1, Item 4) and trailer bumper (Figure 1, Item 1) and connect ends of strap together.
 - c. Use ratchet (Figure 1, Item 2) on strap (Figure 1, Item 3) to raise drawbar (Figure 1, Item 4).
 - d. Disconnect trailer from vehicle (WP 0010).
 - e. Use ratchet (Figure 1, Item 2) on strap (Figure 1, Item 3) to lower drawbar (Figure 1, Item 4).
 - f. Remove strap (Figure 1, Item 3) from drawbar (Figure 1, Item 4).

DRAWBAR OPERATIONS WITH AIR SYSTEM FAILURE - Continued

- g. Place stowage strap (Figure 1, Item 3) in stowage box.

END OF TASK**END OF WORK PACKAGE**

CHAPTER 3

TROUBLESHOOTING PROCEDURES

**OPERATOR MAINTENANCE
ALL TRAILER LIGHTS FAIL**

INITIAL SETUP:

References

WP 0010

Equipment Condition

Parking brake applied. (WP 0016)

Wheels chocked. (WP 0020)

**TROUBLESHOOTING PROCEDURE
ALL TRAILER LIGHTS FAIL**

STEP 1

Is trailer electrical system connected to the vehicle electrical system?

Visually check if trailer electrical cable assembly is connected to the vehicle.

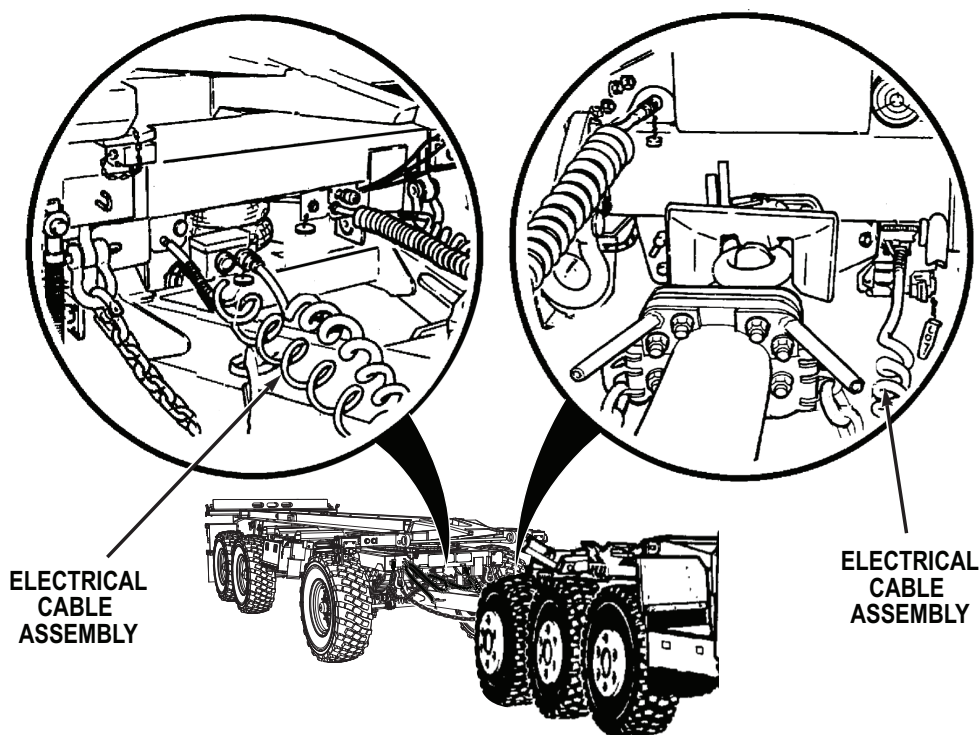


Figure 1. PLS Trailer Electrical Hookup.

CONDITION/INDICATION

Is trailer electrical system connected to the vehicle electrical system?

DECISION

Yes - Notify field maintenance.

No - Connect electrical cable assembly (WP 0010). Go to (Step 2 - Do trailer lights operate properly?) to verify problem is solved.

STEP 2

Do trailer lights operate properly?

Operate trailer lights and check for proper operation (WP 0010).

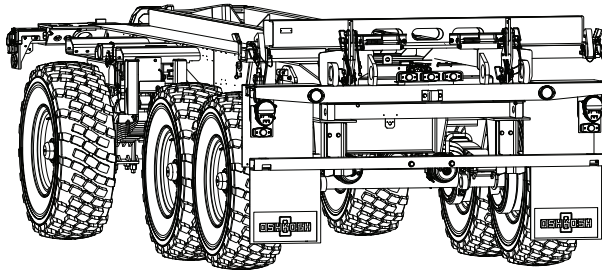


Figure 2. PLS Trailer Lights.

CONDITION/INDICATION

Do trailer lights operate properly?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
ALL TRAILER PARKING BRAKES DO NOT RELEASE**

INITIAL SETUP:

References

WP 0010

Equipment Condition

Parking brake applied. (WP 0016)

Wheels chocked. (WP 0020)

**TROUBLESHOOTING PROCEDURE
ALL TRAILER PARKING BRAKES DO NOT RELEASE**

STEP 1

Is the trailer emergency air gladhand connected to the vehicle air system?

WARNING

Trailer wheels must be chocked or drawbar connected to vehicle before coupling trailer gladhands to vehicle. Failure to comply may result in injury or death to personnel.

Visually inspect if trailer emergency air gladhand is connected to the vehicle.

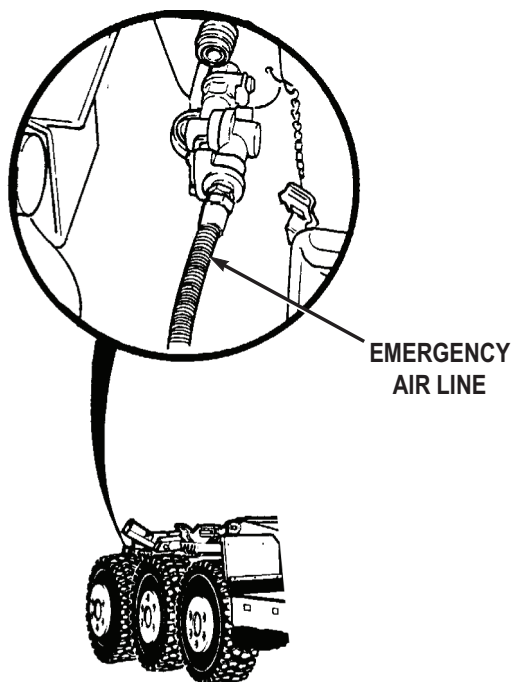


Figure 1. Emergency Air Line Hookup.

CONDITION/INDICATION

Is the trailer emergency air gladhand connected to the vehicle air system?

DECISION

Yes - Notify field maintenance.

No - Connect the emergency air supply line (WP 0010). Go to (Step 2 - Do all trailer parking brakes release?) to verify problem is solved.

STEP 2

Do all trailer parking brakes release?

1. Ensure vehicle is returned to normal operating condition.
2. Operate trailer parking brakes (WP 0016).

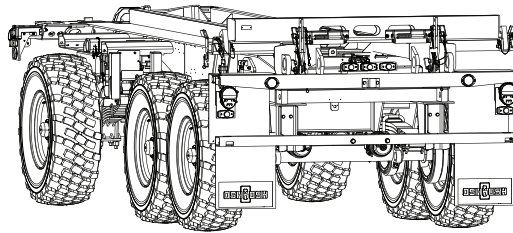


Figure 2. PLS Trailer.

CONDITION/INDICATION

Do all trailer parking brakes release?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
TRAILER SERVICE BRAKES DO NOT APPLY**

INITIAL SETUP:

References

WP 0010

Equipment Condition

Parking brake applied. (WP 0016)

Wheels chocked. (WP 0020)

**TROUBLESHOOTING PROCEDURE
TRAILER SERVICE BRAKES DO NOT APPLY**

STEP 1

Is the trailer service air gladhand connected to the vehicle air system?

WARNING

Trailer wheels must be chocked or drawbar connected to vehicle before coupling trailer gladhands to vehicle. Failure to comply may result in injury or death to personnel.

Visually inspect the trailer service air gladhand.

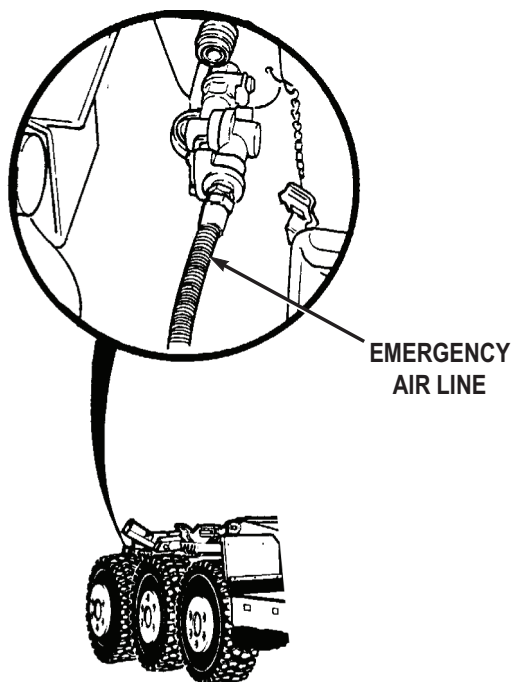


Figure 1. Service Air Line Hookup.

CONDITION/INDICATION

Is the trailer service air gladhand connected to the vehicle air system?

DECISION

Yes - Notify field maintenance.

No - Connect the service air gladhand (WP 0010). Go to (Step 2 - Do the trailer service brakes apply?) to verify problem is solved.

STEP 2

Do the trailer service brakes apply?

1. Ensure vehicle is returned to normal operating condition.
2. Operate trailer service brakes (WP 0010).

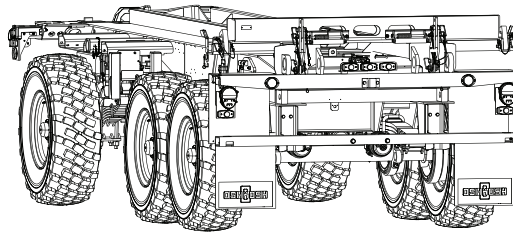


Figure 2. PLS Trailer.

CONDITION/INDICATION

Do the trailer service brakes apply?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
TRAILER FAILS TO TURN AND FOLLOW THE VEHICLE

INITIAL SETUP:

References

WP 0010
WP 0013

Equipment Condition

Parking brake applied. (WP 0016)
Wheels chocked. (WP 0020)

TROUBLESHOOTING PROCEDURE
TRAILER FAILS TO TURN AND FOLLOW THE VEHICLE

STEP 1

Is the turntable locking pin removed?

Visually inspect the turntable locking pin.

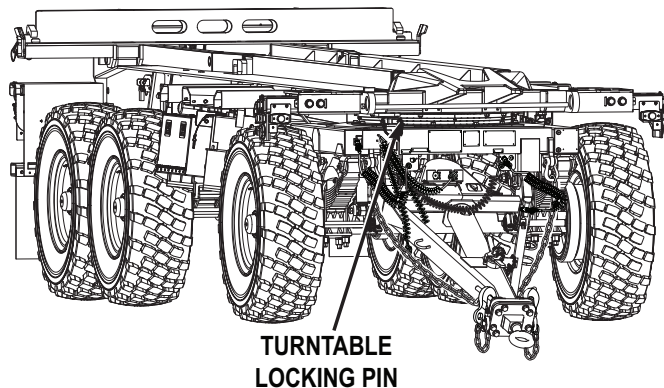


Figure 1. PLS Trailer Turntable Lock.

CONDITION/INDICATION

Is the turntable locking pin removed?

DECISION

Yes - Notify field maintenance.

No - Remove turntable locking pin (WP 0013). Go to (Step 2 - Does the trailer turn and follow the vehicle?) to verify problem is solved.

STEP 2**Does the trailer turn and follow the vehicle?**

1. Ensure vehicle is returned to normal operating condition.
2. Operate vehicle and trailer (WP 0010).

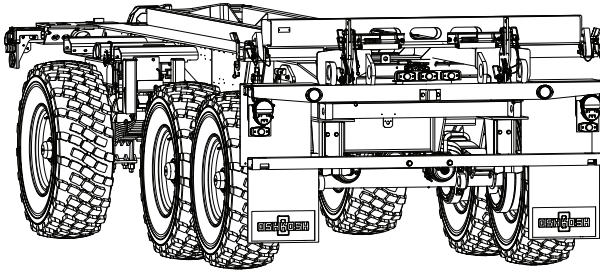


Figure 2. PLS Trailer.

CONDITION/INDICATION

Does the trailer turn and follow the vehicle?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
FLATRACK LOCKING MECHANISM DOES NOT UNLOCK**

INITIAL SETUP:

References

WP 0010
WP 0014

Equipment Condition

Parking brake applied. (WP 0016)
Wheels chocked. (WP 0020)

**TROUBLESHOOTING PROCEDURE
FLATRACK LOCKING MECHANISM DOES NOT UNLOCK**

STEP 1

Is the emergency air gladhand connected to the vehicle?

WARNING

Trailer wheels must be chocked or drawbar connected to vehicle before coupling trailer gladhands to vehicle. Failure to comply may result in injury or death to personnel.

Visually check if emergency air gladhand is connected to the vehicle.

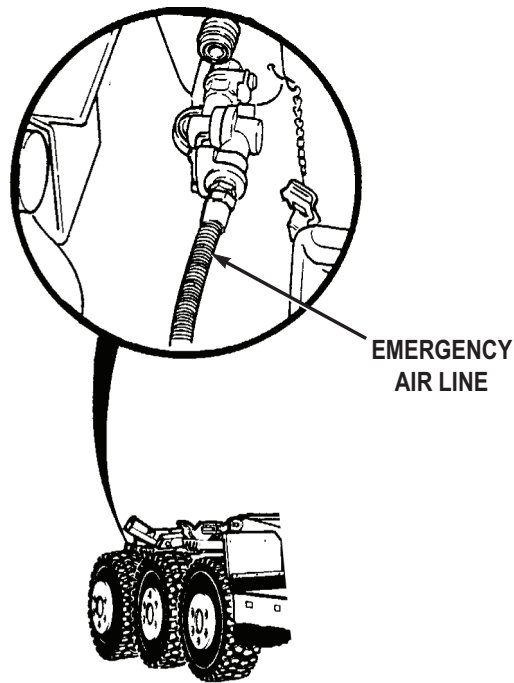


Figure 1. Emergency Air Line Hookup.

CONDITION/INDICATION

Is the emergency air gladhand connected to the vehicle?

DECISION

Yes - Notify field maintenance.

No - Connect emergency air gladhand (WP 0010). Go to (Step 2 - Does the flatrack locking mechanism unlock?) to verify problem is solved.

STEP 2

Does the flatrack locking mechanism unlock?

1. Ensure vehicle is returned to normal operating condition.
2. Operate flatrack locking mechanism (WP 0014).

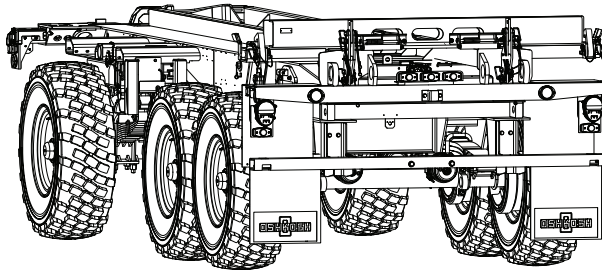


Figure 2. PLS Trailer.

CONDITION/INDICATION

Does the flatrack locking mechanism unlock?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

OPERATOR MAINTENANCE FLATRACK LOCKING MECHANISM DOES NOT LOCK

INITIAL SETUP:

References

WP 0014
WP 0018

Equipment Condition

Parking brake applied. (WP 0016)
Wheels chocked. (WP 0020)

TROUBLESHOOTING PROCEDURE FLATRACK LOCKING MECHANISM DOES NOT LOCK

STEP 1

Is the flatrack positioned on the trailer correctly?

Visually check the position of the flatrack on the trailer.

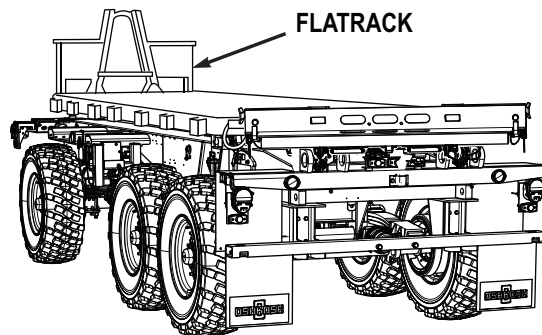


Figure 1. PLS Trailer With Flatrack.

CONDITION/INDICATION

Is the flatrack positioned on the trailer correctly?

DECISION

Yes - Notify field maintenance.

No - Reposition Flatrack (WP 0018). Go to (Step 2 - Does the flatrack locking mechanism lock?) to verify problem is solved.

STEP 2**Does the flatrack locking mechanism lock?**

1. Ensure the vehicle is returned to normal operating condition.
2. Operate the flatrack locking mechanism (WP 0014).

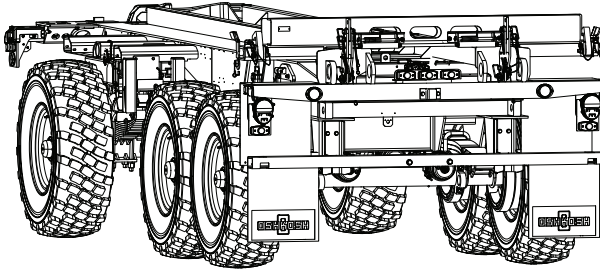


Figure 2. PLS Trailer.

CONDITION/INDICATION

Does the flatrack locking mechanism lock?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
DRAWBAR WILL NOT RAISE OR LOWER**

INITIAL SETUP:

References

WP 0011

WP 0022

Equipment Condition

Parking brake applied. (WP 0016)

Wheels chocked. (WP 0020)

**TROUBLESHOOTING PROCEDURE
DRAWBAR WILL NOT RAISE OR LOWER**

STEP 1

Is air tank No. 1 pressurized?

Pull air drain cable and listen for air release.

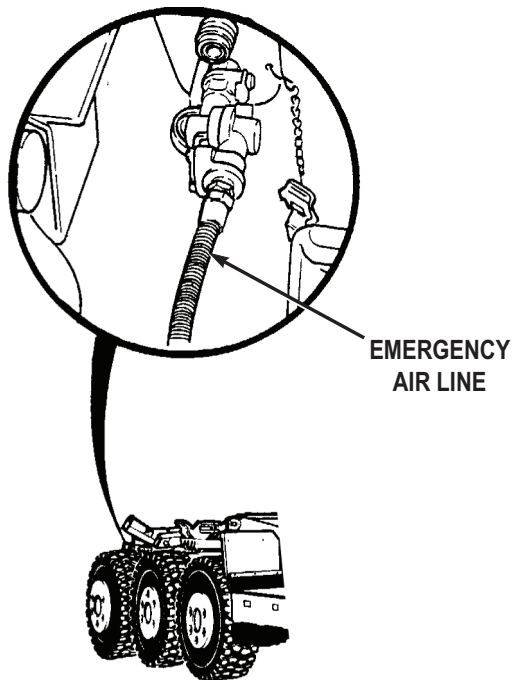


Figure 1. Emergency Air Line Hookup.

CONDITION/INDICATION

Is air tank No. 1 pressurized?

DECISION

Yes - Notify field maintenance.

No - Charge air tank No. 1 (WP 0022). Go to (Step 2 - Does drawbar raise and lower?) to verify problem is solved.

STEP 2**Does drawbar raise and lower?**

1. Ensure vehicle is returned to normal operating condition.
2. Raise and lower drawbar (WP 0011).

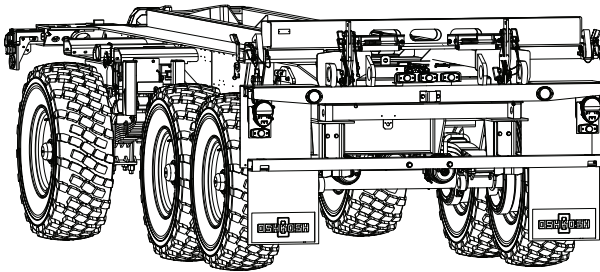


Figure 2. PLS Trailer.

CONDITION/INDICATION

Does drawbar raise and lower?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

OPERATOR MAINTENANCE ISO LOCKS WILL NOT LOCK/UNLOCK CONTAINER

INITIAL SETUP:

References

WP 0024
WP 0026
WP 0027
WP 0053

Equipment Condition

Parking brake applied. (WP 0016)
Wheels chocked. (WP 0020)

TROUBLESHOOTING PROCEDURE ISO LOCKS WILL NOT LOCK/UNLOCK CONTAINER

STEP 1

Are ISO locks free from dirt, debris, and ice?

Check ISO locks for dirt, debris, and ice.

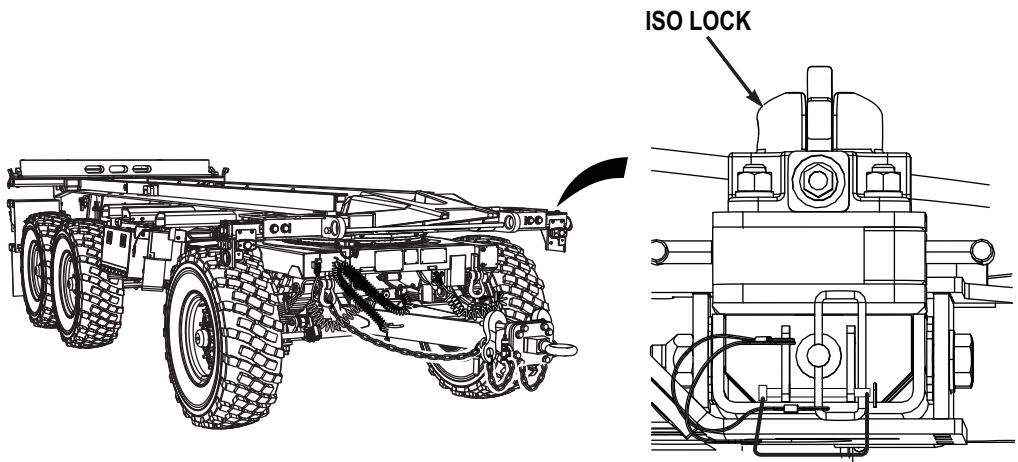


Figure 1. ISO Lock.

CONDITION/INDICATION

Are ISO locks free from dirt, debris, and ice?

DECISION

Yes - Go to (Step 2 - Are ISO locks and ISO lock mounts free from damage?).

No - Clean ISO locks. Go to (Step 6 - Do ISO locks operate correctly?) to verify problem is solved.

STEP 2**Are ISO locks and ISO lock mounts free from damage?**

Check ISO locks and ISO lock mounts for damage.

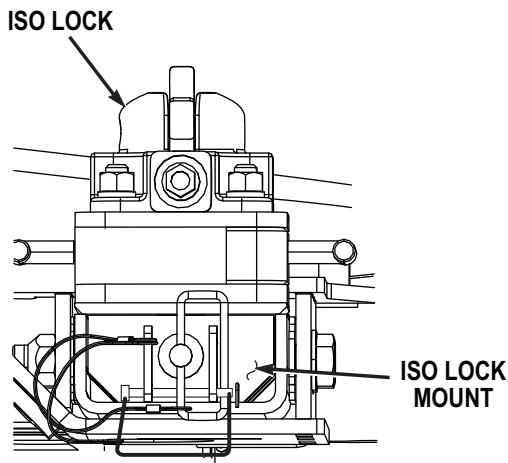


Figure 2. ISO Lock and ISO Lock Mount.

CONDITION/INDICATION

Are ISO locks and ISO lock mounts free from damage?

DECISION

Yes - ISO locks and ISO lock mounts free from damage. Go to (Step 3 - Are ISO locks installed correctly on ISO lock mounts?).

No - ISO lock(s) or ISO lock mount(s) damaged. Notify field maintenance that ISO lock(s) or ISO lock mount(s) need repair.

STEP 3**Are ISO locks installed correctly on ISO lock mounts?**

Check if ISO locks are installed correctly on ISO lock mounts (WP 0024).

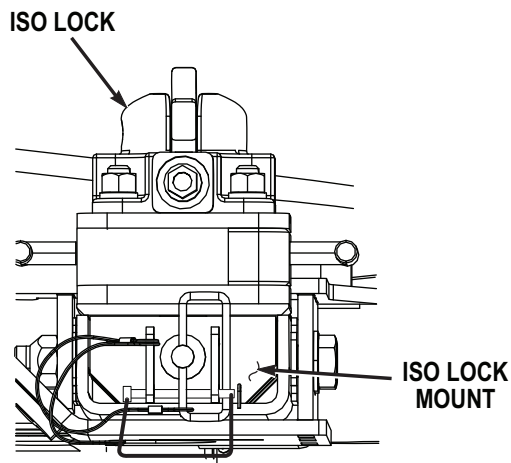


Figure 3. ISO Lock and ISO Lock Mount.

CONDITION/INDICATION

Are ISO locks installed correctly on ISO lock mounts?

DECISION

Yes - Go to (Step 4 - Are ISO locks properly lubricated and free from binding?).

No - Reinstall ISO locks (WP 0024). Go to (Step 6 - Do ISO locks operate correctly?) to verify problem is solved.

STEP 4

Are ISO locks properly lubricated and free from binding?

1. Operate ISO locks. Check if ISO locks are properly lubricated and free from binding.

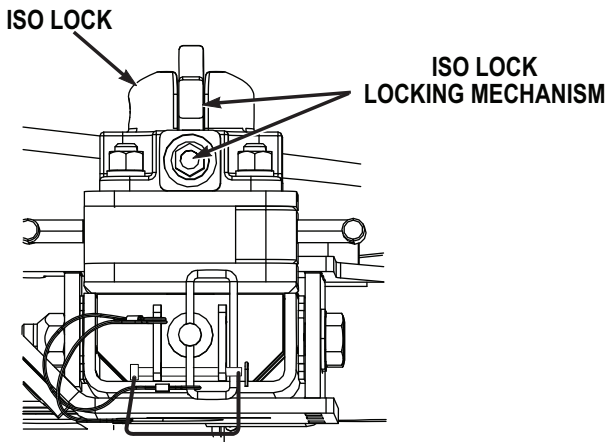


Figure 4. ISO Lock and ISO Lock Locking Mechanism.

2. If ISO locks need lubrication, lubricate ISO locks (WP 0053).

CONDITION/INDICATION

Are ISO locks properly lubricated and free from binding?

DECISION

Yes - Go to (Step 5 - Is container positioned properly on trailer?).

No - Replace damaged ISO lock(s). Notify field maintenance that ISO locks need repair.

Go to (Step 6 - Do ISO locks operate correctly?) to verify problem is solved.

STEP 5

Is container positioned properly on trailer?

NOTE

Container may have shifted during transport. If container shifted during transport and locks can not be unlocked, notify field maintenance.

Check if container is properly positioned on trailer.

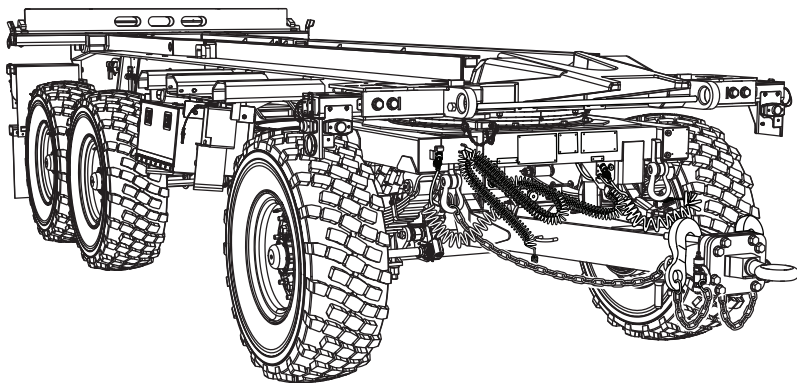


Figure 5. Trailer.

CONDITION/INDICATION

Is container positioned properly on trailer?

DECISION

Yes - Go to (Step 6 - Do ISO locks operate correctly?) to verify problem is solved.

No - Reposition container on trailer with CHU (WP 0026) or with ECHU (WP 0027). Go to (Step 6 - Do ISO locks operate correctly?) to verify problem is solved.

STEP 6

Do ISO locks operate correctly?

1. Ensure vehicle is returned to normal operating condition.

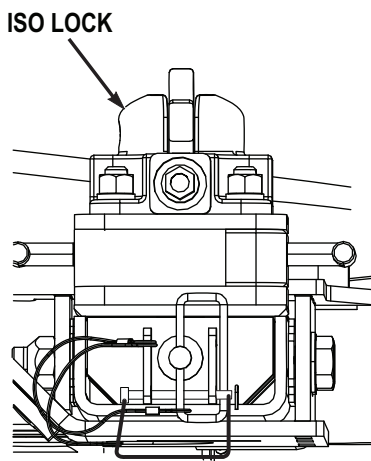


Figure 6. ISO Lock.

2. Check if ISO locks operate correctly.

CONDITION/INDICATION

Do ISO locks operate correctly?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
CART DOES NOT ROLL DOWN TRAILER EASILY

INITIAL SETUP:

References

WP 0028
WP 0053

Equipment Condition

Parking brake applied. (WP 0016)
Wheels chocked. (WP 0020)

TROUBLESHOOTING PROCEDURE
CART DOES NOT ROLL DOWN TRAILER EASILY

STEP 1

Are trailer rails free from damage?

Check trailer rails for damage.

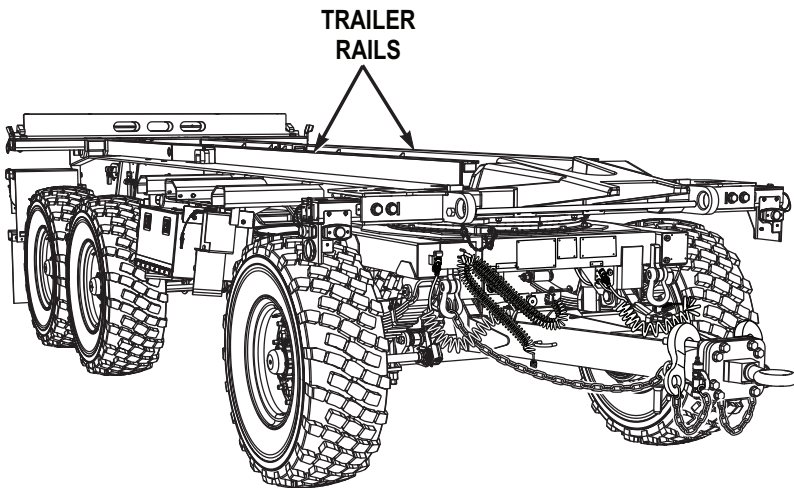


Figure 1. Trailer Rails.

CONDITION/INDICATION

Are trailer rails free from damage?

DECISION

Yes - Go to (Step 2 - Are trailer rails free from dirt, debris, and ice?).

No - Trailer rails are damaged. Notify field maintenance.

STEP 2**Are trailer rails free from dirt, debris, and ice?**

Check trailer rails for dirt, debris, and ice.

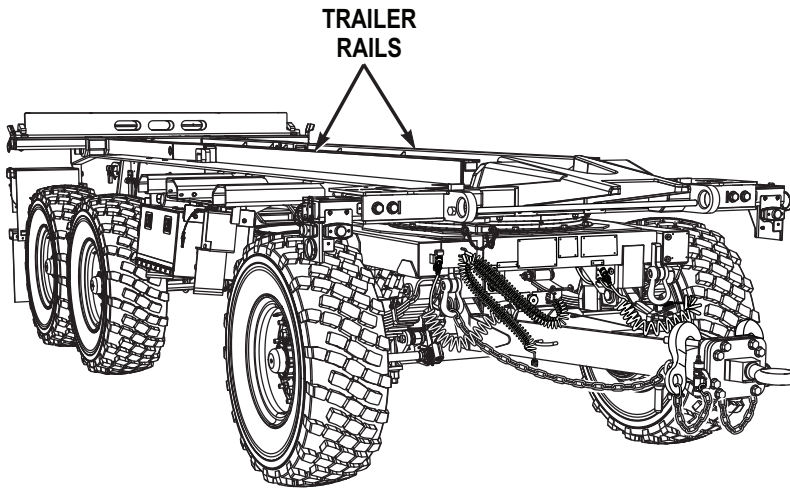


Figure 2. Trailer Rails.

CONDITION/INDICATION

Are trailer rails free from dirt, debris, and ice?

DECISION

Yes - Go to (Step 3 - Is cart free from damage?).

No - Clean trailer rails. Go to (Step 5 - Does cart roll down trailer easily?) to verify problem is solved.

STEP 3**Is cart free from damage?**

1. Check cart for damage.

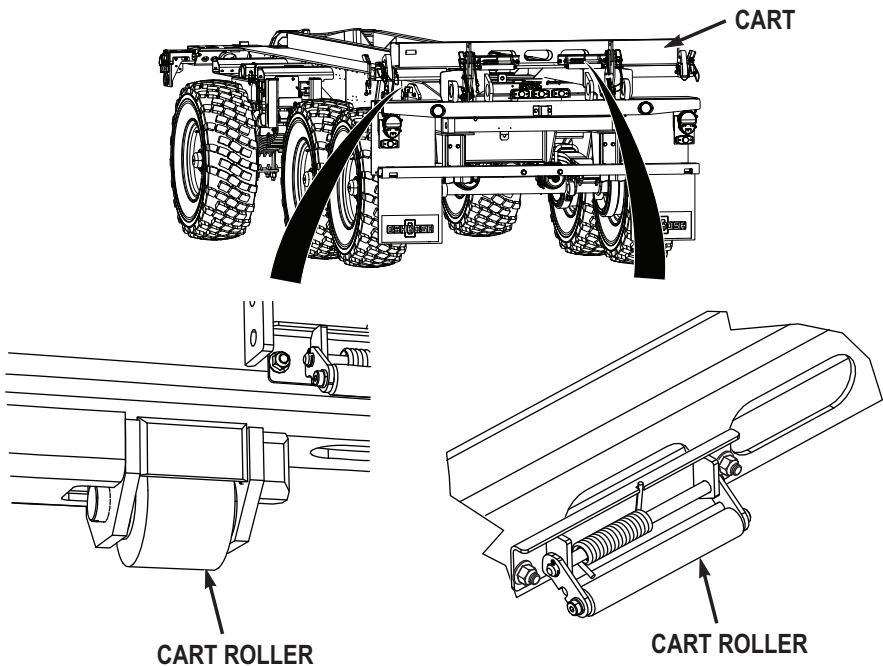


Figure 3. Cart and Cart Rollers.

2. Check cart rollers for damage.

CONDITION/INDICATION

Is cart free from damage?

DECISION

Yes - Go to (Step 4 - Are cart rollers properly lubricated and free from binding?).

No - Cart is damaged. Notify field maintenance.

STEP 4

Are cart rollers properly lubricated and free from binding?

1. Move cart up and down trailer rails (WP 0028). Check if cart rollers are properly lubricated and free from binding.

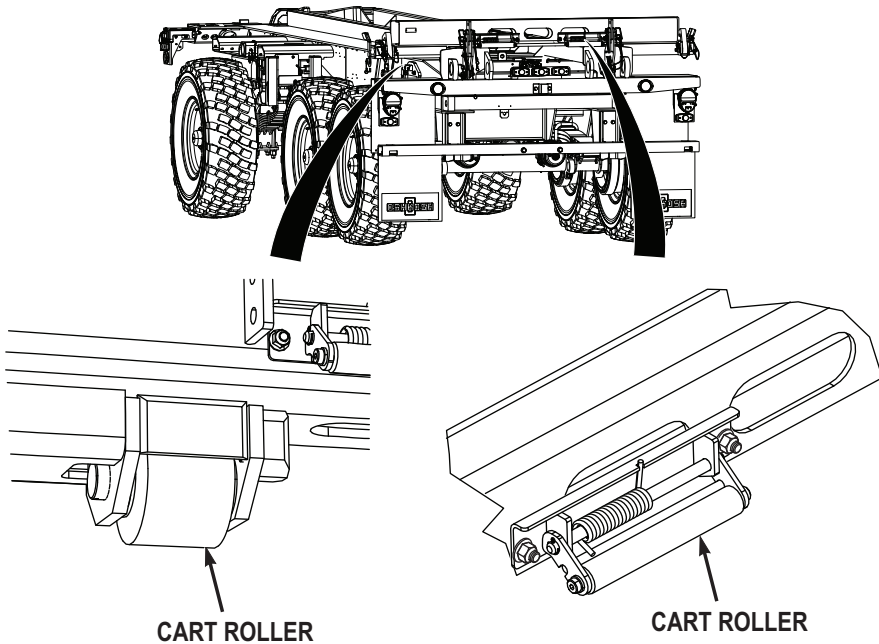


Figure 4. Cart Rollers.

2. If cart rollers need lubrication, lubricate rollers (WP 0053).

CONDITION/INDICATION

Are cart rollers properly lubricated and free from binding?

DECISION

Yes - Go to (Step 5 - Does cart roll down trailer easily?) to verify problem is solved.

No - Cart rollers are damaged. Notify field maintenance.

STEP 5

Does cart roll down trailer easily?

1. Ensure vehicle is returned to normal operating condition.

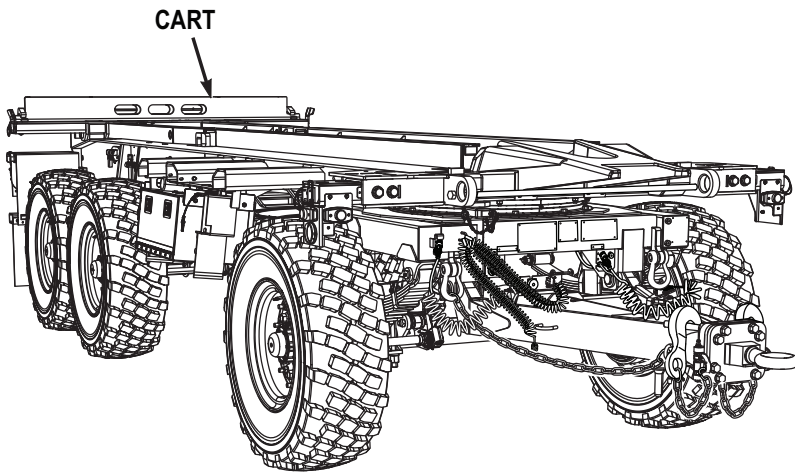


Figure 5. Cart.

2. Move cart up and down trailer rails (WP 0028). Check if cart rolls down trailer easily.

CONDITION/INDICATION

Does cart roll down trailer easily?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

OPERATOR MAINTENANCE CART LOCKS DO NOT OPERATE PROPERLY

INITIAL SETUP:

References

WP 0026
WP 0027

Equipment Condition

Parking brake applied. (WP 0016)
Wheels chocked. (WP 0020)

TROUBLESHOOTING PROCEDURE CART LOCKS DO NOT OPERATE PROPERLY

STEP 1

Are cart container locks free from damage?

Check cart container locks for damage.

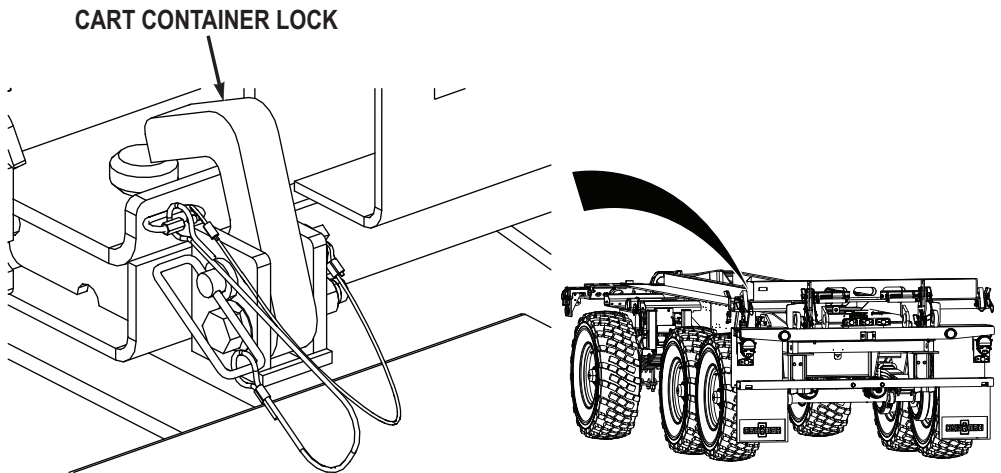


Figure 1. Cart Container Lock.

CONDITION/INDICATION

Are cart container locks free from damage?

DECISION

Yes - Go to (Step 2 - Are cart trailer lock assemblies free from damage?).

No - Cart is damaged. Notify field maintenance.

STEP 2**Are cart trailer lock assemblies free from damage?**

Check cart trailer lock assemblies for damage.

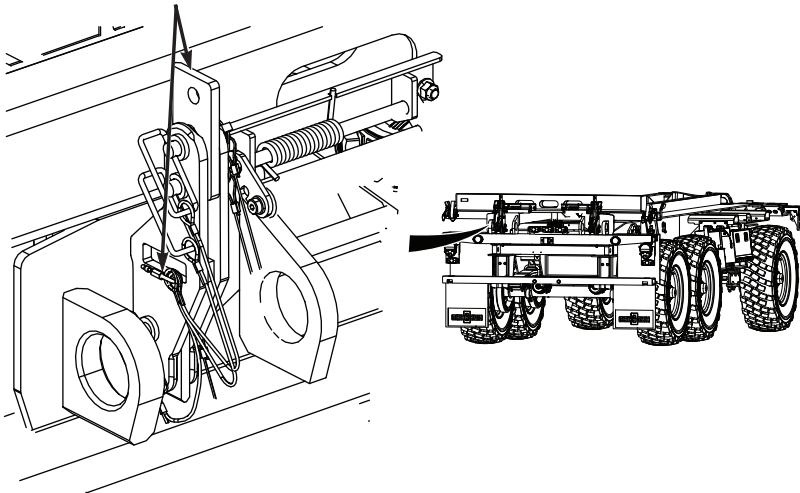
CART TRAILER LOCK ASSEMBLY

Figure 2. Cart Trailer Lock Assembly.

CONDITION/INDICATION

Are cart trailer lock assemblies free from damage?

DECISION

Yes - Go to (Step 3 - Is container positioned properly on cart?).

No - Cart trailer lock assembly(s) damaged. Notify field maintenance.

STEP 3**Is container positioned properly on cart?**

Check if container is properly positioned on cart.

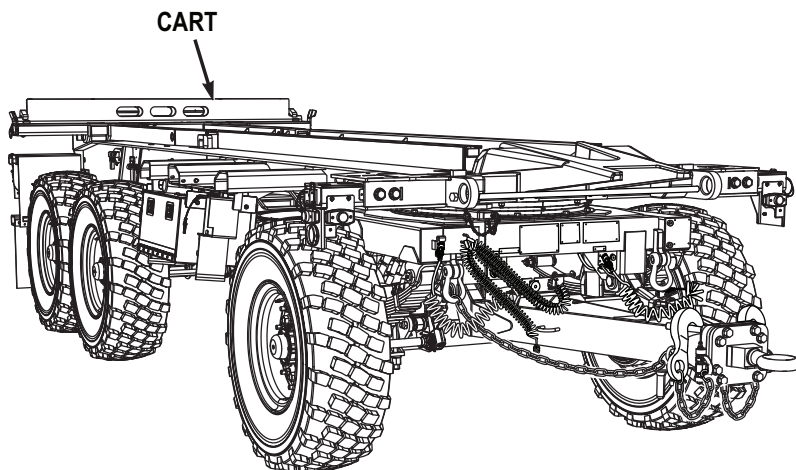


Figure 3. Cart.

CONDITION/INDICATION

Is container positioned properly on cart?

DECISION

Yes - Go to (Step 4 - Is container free from damage?).

No - Reposition container on trailer with CHU (WP 0026) or with ECHU (WP 0027). Go to (Step 5 - Do cart locks operate properly?) to verify problem is solved.

STEP 4

Is container free from damage?

Check container for damage.

CONDITION/INDICATION

Is container free from damage?

DECISION

Yes - Go to (Step 5 - Do cart locks operate properly?) to verify problem is solved.

No - Container is damaged. Load container back on trailer with CHU (WP 0026) or with ECHU (WP 0027). Notify supervisor.

STEP 5

Do cart locks operate properly?

1. Ensure vehicle is returned to normal operating condition.

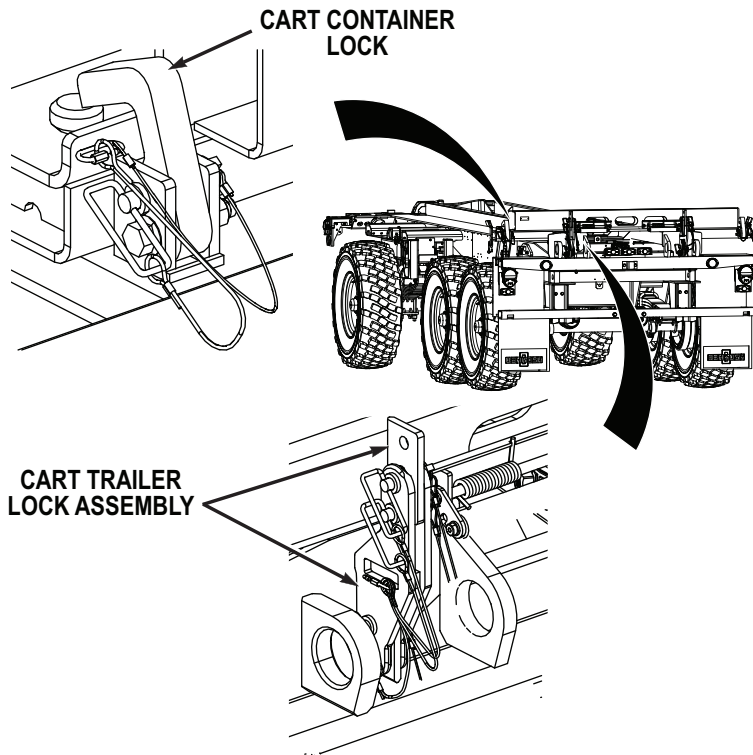


Figure 4. Cart Locks.

2. Check if cart locks operate properly.

CONDITION/INDICATION

Do cart locks operate properly?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
CART CANNOT BE POSITIONED IN FLATRACK OR CONTAINER POSITION

INITIAL SETUP:

References

WP 0025

Equipment Condition

Parking brake applied. (WP 0016)

Wheels chocked. (WP 0020)

TROUBLESHOOTING PROCEDURE

CART CANNOT BE POSITIONED IN FLATRACK OR CONTAINER POSITION

STEP 1

Are cart trailer lock assemblies free from damage?

Check cart trailer lock assemblies for damage.

CART TRAILER LOCK ASSEMBLY

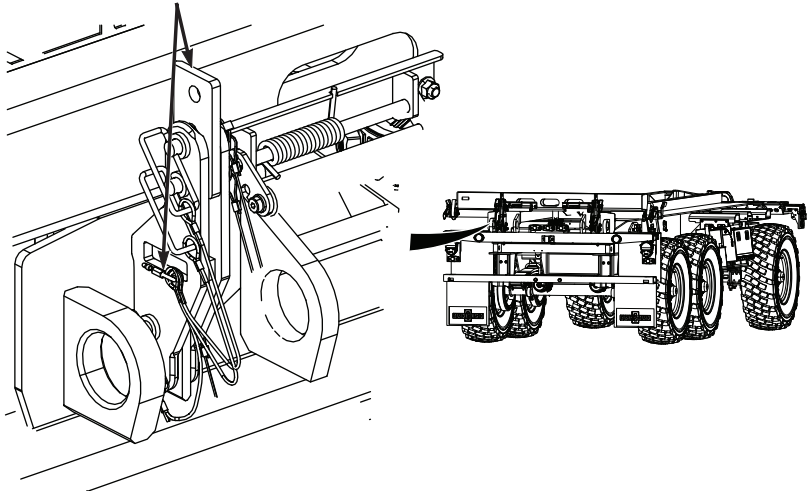


Figure 1. Cart Trailer Lock Assembly.

CONDITION/INDICATION

Are cart trailer lock assemblies free from damage?

DECISION

Yes - Go to (Step 2 - Is cart positioned properly?).

No - Cart trailer lock assembly(s) damaged. Notify field maintenance.

STEP 2**Is cart positioned properly?**

Check if cart is properly positioned for mode selected (WP 0025).

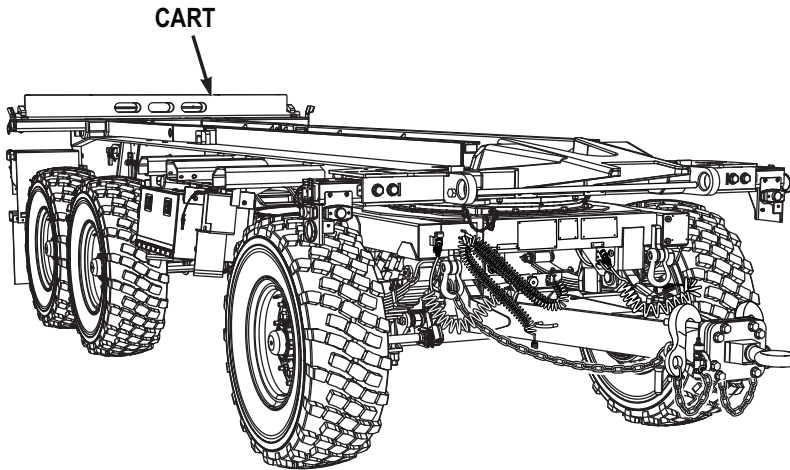


Figure 2. Cart.

CONDITION/INDICATION

Is cart positioned properly?

DECISION

Yes - Go to (Step 3 - Can cart be positioned in flatrack and container position?) to verify problem is solved.

No - Reposition cart on trailer (WP 0025). Go to (Step 3 - Can cart be positioned in flatrack and container position?) to verify problem is solved.

STEP 3**Can cart be positioned in flatrack and container position?**

1. Ensure vehicle is returned to normal operating condition.

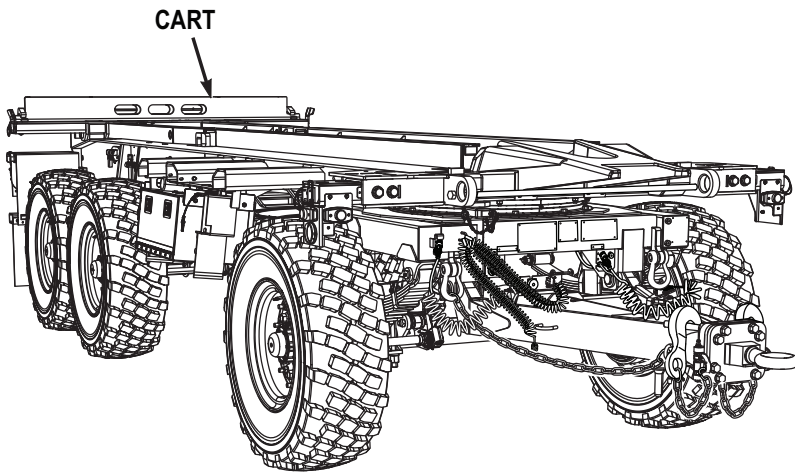


Figure 3. Cart.

2. Check if cart is properly positioned for flatrack mode (WP 0025).
3. Check if cart is properly positioned for container mode (WP 0025).

CONDITION/INDICATION

Can cart be positioned in flatrack and container position?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
CART CANNOT BE POSITIONED ON BUMPER (STOWED) POSITION

INITIAL SETUP:

References

WP 0025

Equipment Condition

Parking brake applied. (WP 0016)

Wheels chocked. (WP 0020)

TROUBLESHOOTING PROCEDURE

CART CANNOT BE POSITIONED ON BUMPER (STOWED) POSITION

STEP 1

Is trailer bumper free from damage?

Check trailer bumper for damage.

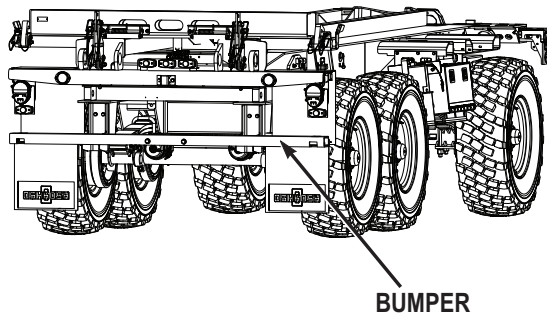


Figure 1. Trailer Bumper.

CONDITION/INDICATION

Is trailer bumper free from damage?

DECISION

Yes - Go to (Step 2 - Is cart free from damage?).

No - Trailer bumper is damaged. Notify field maintenance.

STEP 2**Is cart free from damage?**

1. Check cart for damage.
2. Check cart container locks for damage.

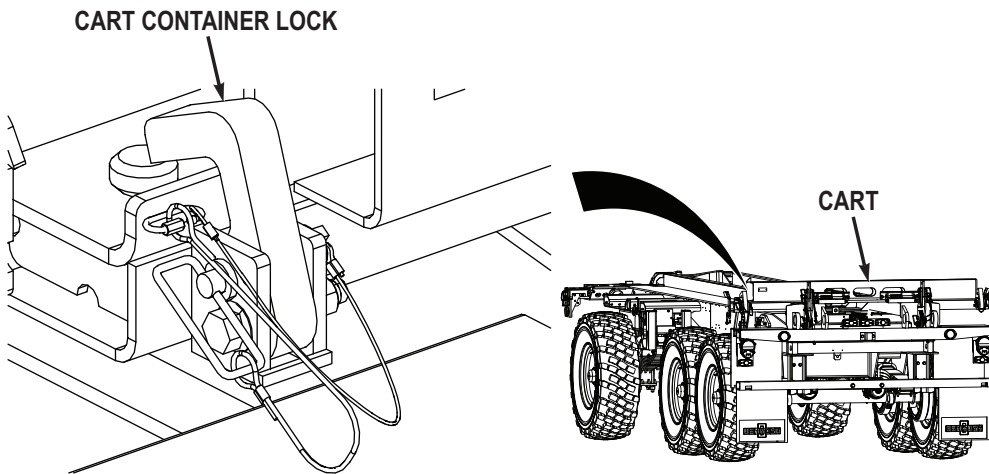


Figure 2. Cart.

CONDITION/INDICATION

Is cart free from damage?

DECISION

Yes - Go to (Step 3 - Can cart be positioned on bumper (stowed) position?) to verify problem is solved.

No - Cart is damaged. Notify field maintenance.

STEP 3**Can cart be positioned on bumper (stowed) position?**

1. Ensure vehicle is returned to normal operating condition.

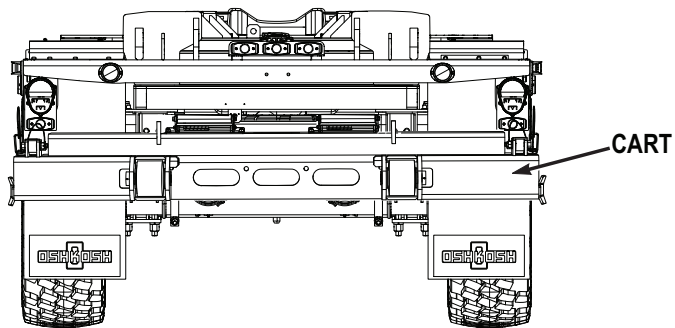


Figure 3. Cart.

2. Check if cart can be properly positioned for bumper (stowed) position (WP 0025).

CONDITION/INDICATION

Can cart be positioned on bumper (stowed) position?

DECISION

Yes - Problem Corrected.

No - Notify field maintenance.

END OF WORK PACKAGE

CHAPTER 4

**PREVENTIVE MAINTENANCE CHECKS AND
SERVICES (PMCS)**

OPERATOR MAINTENANCE

INTRODUCTION - OPERATOR'S PREVENTIVE MAINTENANCE

PMCS INTRODUCTION

This section contains Preventive Maintenance Checks and Services (PMCS) requirements for PLST M1076 A1. The PMCS tables contain checks and services necessary to ensure that the trailer is ready for operation. Using PMCS tables, perform maintenance at specified intervals.

MAINTENANCE FORMS AND RECORDS

Every mission begins and ends with paperwork. There is not much of it, but it must be kept up. The filled-out forms and records have several uses. They are a permanent record of services, repairs, and modifications made on the trailer; they are reports to field level maintenance and to your Commander; and they serve as a checklist to find out what is wrong with the trailer after its last use and whether those faults have been fixed. For the information needed on forms and records, refer to DA PAM 750-8 (WP 0057).

PREVENTIVE MAINTENANCE CHECKS AND SERVICES

- Do the before (B) PREVENTIVE MAINTENANCE just before operating trailer. Pay attention to the CAUTIONS and WARNINGS.
- Do the during (D) PREVENTIVE MAINTENANCE while trailer and/or its component systems are in operation. Pay attention to the CAUTIONS and WARNINGS.
- Do the after (A) PREVENTIVE MAINTENANCE right after operating trailer. Pay attention to the CAUTIONS and WARNINGS.
- Do the (W) PREVENTIVE MAINTENANCE weekly. Pay attention to the CAUTIONS and WARNINGS.
- Do the (M) PREVENTIVE MAINTENANCE once a month. Pay attention to the CAUTIONS and WARNINGS.
- Do the (S) PREVENTIVE MAINTENANCE twice a year. Pay attention to the CAUTIONS and WARNINGS.
- If something does not work, troubleshoot and notify the supervisor.
- Always do PREVENTIVE MAINTENANCE in the same order until it gets to be a habit. Once practiced, problems can be spotted in a hurry.
- If something looks wrong and cannot be fixed right then, write it on DA Form 2404 (WP 0057) or DA Form 5988-E (WP 0057). If something seems seriously wrong, report it to field maintenance RIGHT AWAY.
- When doing PREVENTIVE MAINTENANCE, take along the tools needed and a rag or two to make all the checks.

GENERAL MAINTENANCE PROCEDURE

- **Cleanliness:** Dirt, grease, oil, and debris only get in the way and may cover up a serious problem. Use solvent cleaning compound (WP 0060, Table 1, Item 1, 2, 3) on all metal surfaces and soapy water on rubber.
- **Bolts, Nuts, and Screws:** Check bolts, nuts, and screws for obvious looseness, missing, bent, or broken condition and tighten or replace as necessary. They cannot all be checked with a tool, of course, but look for chipped paint, bare metal, or rust around bolt heads.
- **Welds:** Look for loose or chipped paint, rust, or gaps where parts are welded together. If a bad weld is found, have it repaired.
- **Electric Wires and Connectors:** Look for cracked or broken insulation, bare wires, and loose or broken connectors. Tighten loose connectors and make sure wires are in good shape.
- **Hydraulic Lines and Fittings:** Look for wear, damage, and leaks and make sure clamps and fittings are tight. Wet spots show leaks, of course, but a stain around a fitting or connector can indicate a leak. If a connector or fitting is loose, tighten it. If something is broken or worn out, repair or replace it per the applicable procedure.
- **Damage is defined as:** Any condition that affects safety or would render the trailer unserviceable for mission requirements.

CORROSION PREVENTION CONTROL (CPC)

Corrosion prevention control maintenance is a requirement for the PLST M1076 A1. While performing the PMCS, look for and always be aware of rust, peeling or blistering paint, and any damage that can cause corrosion. Inspect entire trailer including specific areas mentioned in PMCS. Ensure corrosion preventive compounds are applied adequately where required. Be aware that missing corrosion preventive compounds can allow corrosion damage. Report any deficiencies as soon as possible to field maintenance to maximize PLST M1076 A1 life. Appearance and color of corrosion is dependent on the metal/ components involved. Table 1 will aid in the visual identification of corrosion on specific metals.

Table 1. Corrosion.

Metal/Component	Corrosion Appearance
Steel	Powdery
Steel	Powdery
Aluminum	Powdery White
Brass	Green
Electrical Connectors	Green

FLUID LEAKAGE

It is necessary for you to know how fluid leakage affects the status of the PLST M1076 A1. Following are types/classes of leakage you need to know to be able to determine the status of the PLST M1076 A1. Learn these leakage definitions and remember - when in doubt, notify your supervisor. Equipment operation is allowed with minor leakage (Class I or II). Consideration must be given to fluid capacity in the item/system being checked/inspected. When in doubt, notify your supervisor.

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

Class III leaks should be reported immediately to your supervisor.

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

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

Prior to performing your PMCS, check with your PLL clerk to verify that the latest publications are being used by the operator and organizational unit.

Listed below are the PMCS procedures applicable to this equipment.

PMCS - BEFORE (WP 0048)

PMCS - DURING (WP 0049)

PMCS - AFTER (WP 0050)

PMCS - WEEKLY (WP 0051)

PMCS - MONTHLY (WP 0052)

PMCS - SEMI-ANNUAL (WP 0053)

Trailers designated or dispatched to transport Class A or B ammunition, explosives, poisons, or radioactive yellow III materials over public highways require more stringent inspections.

Daily Walk Around PMCS Diagram. This routing diagram will be of help to complete the B, D, or A PMCS. It shows the trailer PMCS routing track, which matches the sequence of PMCS to be performed.

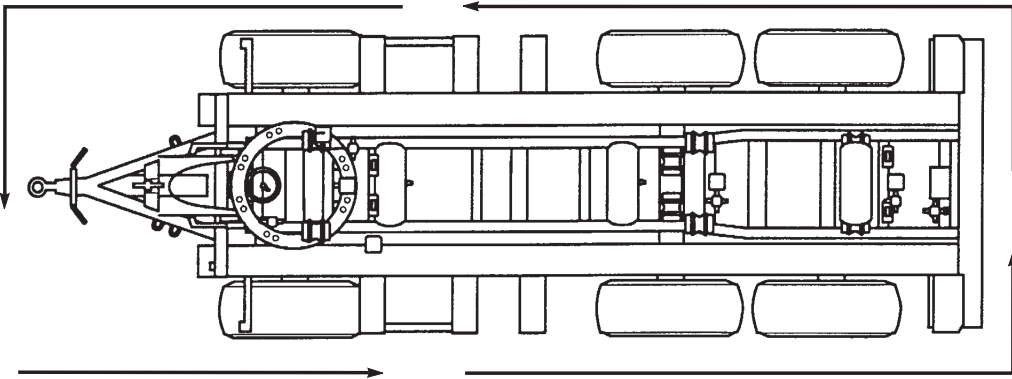
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) - Continued

Figure 1. PMCS Introduction.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
OPERATOR'S PMCS - BEFORE

INITIAL SETUP:

References

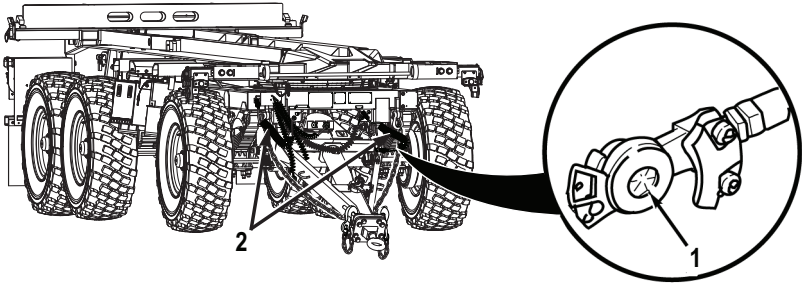
- WP 0010
- WP 0012
- WP 0024
- WP 0025

References (cont.)

- WP 0027
- WP 0057
- WP 0058

Table 1. OPERATOR'S PMCS - BEFORE.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Before	Air Lines (Connectors to Towing Vehicle).	Visually inspect intervehicular air lines (Figure 1, Item 2) to the towing vehicle for cracks and damaged gladhand seals (Figure 1, Item 1).	Intervehicular cables and gladhand seals are damaged or missing.



The diagram illustrates the location of intervehicular air lines on a vehicle chassis. A main view shows the chassis with multiple wheels and a tow bar. Two arrows point to specific components: arrow 1 points to a gladhand seal on the tow bar, and arrow 2 points to an air line connector. A circular inset provides a magnified view of the gladhand seal, showing its internal components and the connection point.

Figure 1. PMCS Before.

Table 1. OPERATOR'S PMCS - BEFORE - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
2	Before	Brakes	<p>CAUTION</p> <ul style="list-style-type: none">Do not increase engine speed of vehicle above 1,200 RPM or pull trailer more than 2.0 ft (609.6 mm). Failure to comply may result in damage to equipment.Trailer must be unloaded prior to performing brake test. Failure to comply may result in damage to equipment. <p>NOTE</p> <p>Trailer air system must be fully charged to 120 psi (827 kPa).</p> <p>Check operation of trailer handbrake control by connecting trailer (WP 0010) to towing vehicle or to vehicle other than PLS (WP 0012). Refer to vehicle Operator's manual (WP 0057).</p> <p>With engine at idle, apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).</p>	

Table 1. OPERATOR'S PMCS - BEFORE - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			<p>Engage transmission range selector to Drive (D). Refer to vehicle Operator's manual (WP 0057).</p> <p>Fully apply trailer handbrake control. Refer to vehicle Operator's manual (WP 0057).</p> <p>Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).</p> <p>Gradually increase engine speed to 900 RPM for PLS or 1,100 RPM. Refer to vehicle Operator's manual (WP 0057).</p> <p>Trailer brakes should hold vehicle in place.</p> <p>Reduce engine RPM to idle. Refer to vehicle Operator's manual (WP 0057).</p> <p>Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).</p> <p>Release trailer handbrake control. Refer to vehicle Operator's manual (WP 0057).</p> <p>Apply parking brake and pull out trailer air supply control. Refer to vehicle Operator's manual (WP 0057).</p> <p>Engage transmission drive selector to Neutral (N). Refer to vehicle Operator's manual (WP 0057).</p> <p>Check trailer emergency brake operation.</p>	<p>Trailer brakes do not hold vehicle in place.</p>

Table 1. OPERATOR'S PMCS - BEFORE - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			<p>With engine at idle, apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).</p> <p>Pull out trailer air supply knob. Refer to vehicle Operator's manual (WP 0057).</p> <p>Engage transmission range selector to Drive (D). Refer to vehicle Operator's manual (WP 0057).</p> <p>Release service brake pedal. Refer to vehicle Operator's manual (WP 0057).</p> <p>Gradually increase engine speed to 900 RPM for PLS. Refer to vehicle Operator's manual (WP 0057).</p> <p>Trailer brakes should hold vehicle in place.</p> <p>Reduce engine RPM to idle. Refer to vehicle Operator's manual (WP 0057).</p> <p>Apply service brake pedal. Refer to vehicle Operator's manual (WP 0057).</p> <p>Apply parking brake. Refer to vehicle Operator's manual (WP 0057).</p> <p>Engage transmission drive selector to Neutral (N). Refer to vehicle Operator's manual (WP 0057).</p>	<p>Trailer brakes do not hold vehicle in place.</p>

Table 1. OPERATOR'S PMCS - BEFORE - Continued.

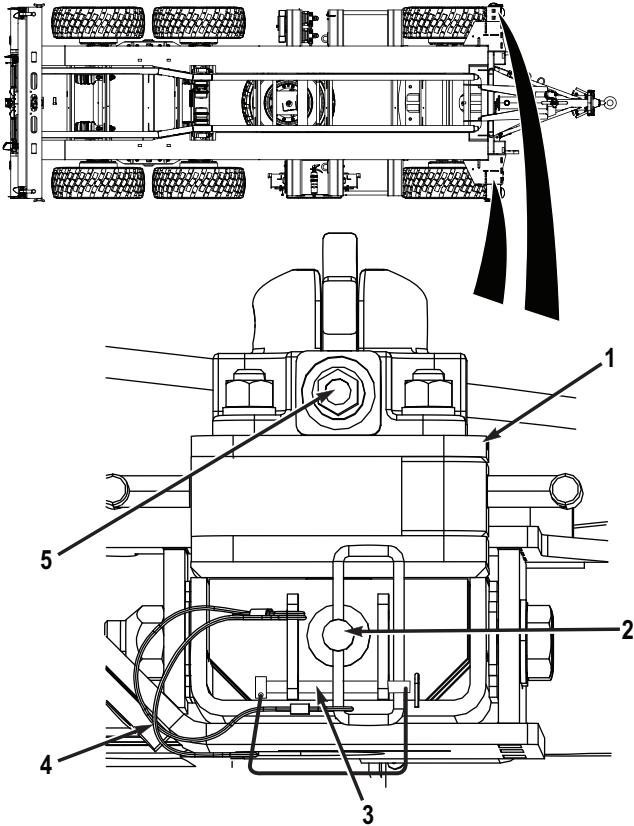
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
3	Before	ISO Locks	Check ISO locks (Figure 2, Item 1) for proper operation (WP 0024).	ISO locks do not operate properly.
				
			Check ISO locks (Figure 2, Item 1) for damage.	ISO locks are damaged or missing.

Figure 2. PMCS Before.

Table 1. OPERATOR'S PMCS - BEFORE - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
4	Before	ISO Locks (if container is loaded on trailer)	Check to make sure container is secured to trailer by ISO locks (Figure 2, Item 1) and that ISO locks (Figure 2, Item 1) are in fully locked position. If ISO locks (Figure 2, Item 1) are not in fully locked position, use crank handle to tighten ISO lock adjustment screw (Figure 2, Item 5) to secure container to trailer.	Container is not secured by ISO locks.
5	Before	ISO Lock Pins and Lanyards	Check hitch pins (Figure 2, Item 2), safety pins (Figure 2, Item 3), and lanyards (Figure 2, Item 4) for proper operation (WP 0024). Check hitch pins (Figure 2, Item 2), safety pins (Figure 2, Item 3), and lanyards (Figure 2, Item 4) for damage.	ISO lock pins do not operate properly. ISO lock pins are damaged or missing.
6	Before	Cart Rollers (Rear)	Check cart rollers (rear) (Figure 3, Item 4) for damage.	Cart rollers (rear) are cracked, missing, or broken. Cart rollers (rear) do not roll freely.

Table 1. OPERATOR'S PMCS - BEFORE - Continued.

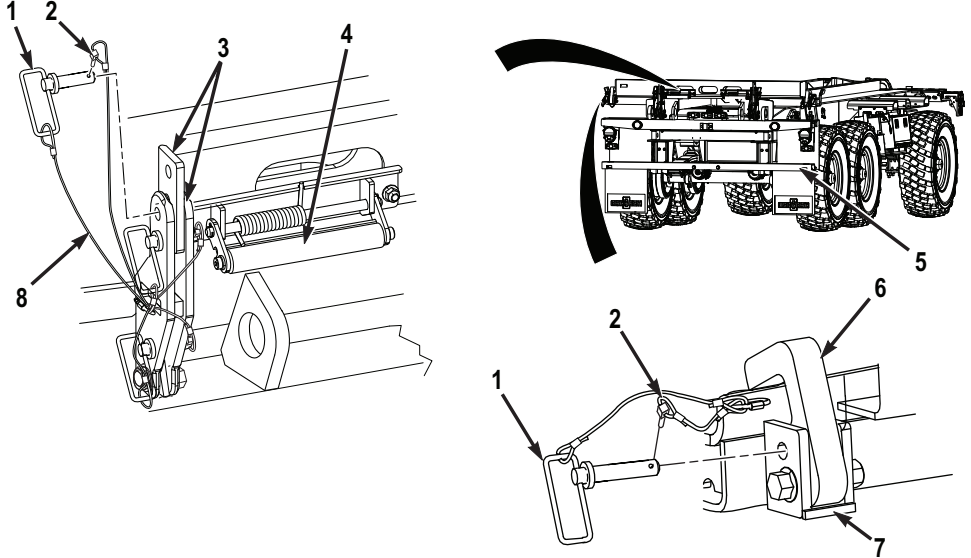
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
 <p>Figure 3. PMCS Before.</p>				
7	Before	Container Locks	<p>Check container locks (Figure 3, Item 6) for proper operation (WP 0027).</p> <p>Check container locks (Figure 3, Item 6) for damage.</p>	<p>Container locks do not operate properly.</p> <p>Container locks are damaged or missing.</p>
8	Before	Container Lock Stop Weldments	Check for damaged or missing container lock stop weldments (Figure 3, Item 7).	
9	Before	Bumper	Check bumper (Figure 3, Item 5) for damage.	Bumper is missing or has damage that prevents stowage of the cart (WP 0025).

Table 1. OPERATOR'S PMCS - BEFORE - Continued.

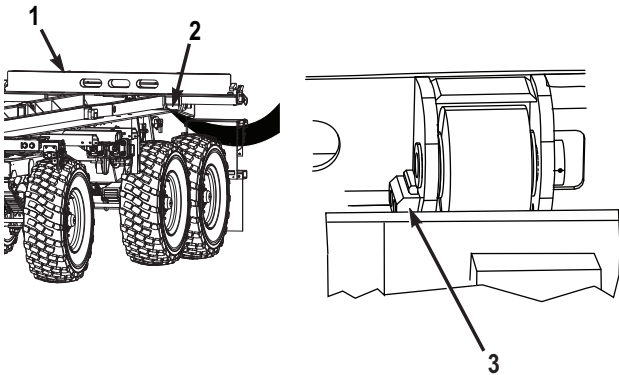
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
10	Before	Hitch Pins and Lynch Pins	Check hitch pins (Figure 3, Item 1), lynch pins (Figure 3, Item 2), and lanyards (Figure 3, Item 8) for damage.	Hitch pins and lynch pins are damaged or missing.
11	Before	Cart Trailer Lock Assemblies	Check cart container lock assemblies (Figure 3, Item 3) for damage.	Cart trailer lock assemblies are damaged or missing.
12	Before	Cart Rollers (Bottom)	Check cart rollers (bottom) (Figure 4, Item 2) for damage.	Cart rollers (bottom) are cracked, missing, or broken. Cart rollers (bottom) do not roll freely.
<div></div>				
Figure 4. PMCS Before.				
13	Before	Wear Pads	Check for damaged or missing wear pads (Figure 4, Item 3).	
14	Before	Cart	Check cart (Figure 4, Item 1) for damage.	Cart is damaged or missing.
15	Before	BII Stowage Box	Check BII stowage box (Figure 5, Item 1) for damage.	BII stowage box is damaged or missing.

Table 1. OPERATOR'S PMCS - BEFORE - Continued.

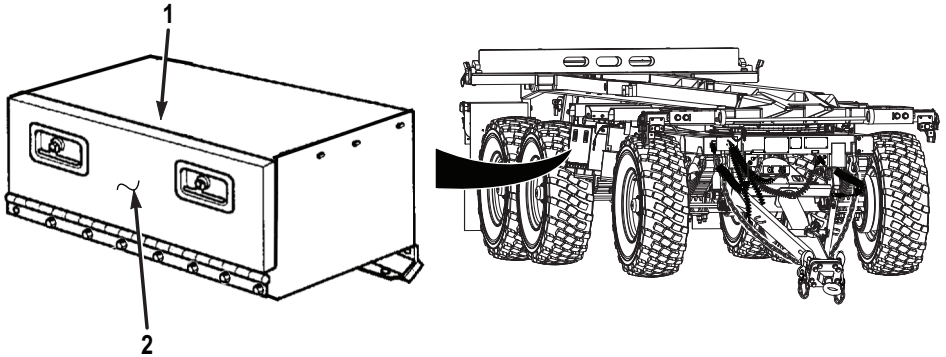
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
 <p>Figure 5. PMCS Before.</p>				
16	Before	Crank Handle Wrench (Inside BII Stowage Box)	Check crank handle wrench (Figure 5, Item 2) for damage. Refer to (WP 0058).	Crank handle wrench is damaged or missing.
17	Before	Fire Extinguisher	Visually inspect for missing, damaged, or loose fire extinguisher (Figure 6, Item 1). Check for proper pressure/seal (Figure 6, Item 2) condition.	

Table 1. OPERATOR'S PMCS - BEFORE - Continued.

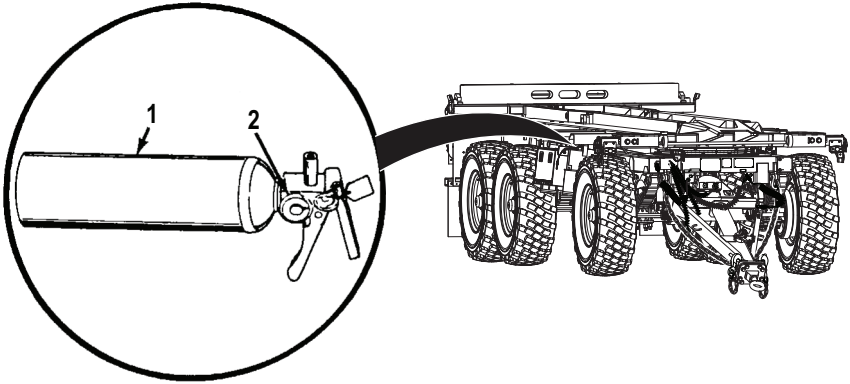
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<div></div> <p>Figure 6. PMCS Before.</p>				
18	Before	Lights	<div><p>NOTE</p><ul style="list-style-type: none">• Blackout lights will operate only with 24 volt connector.• Checking condition of lights is a safety task that would not be performed under combat conditions, see AR 385-10 (WP 0057).<p>Operate the vehicle light switches through all settings and check all trailer lights (Figure 7, Item 1) for proper operation or damage.</p></div>	

Table 1. OPERATOR'S PMCS - BEFORE - Continued.

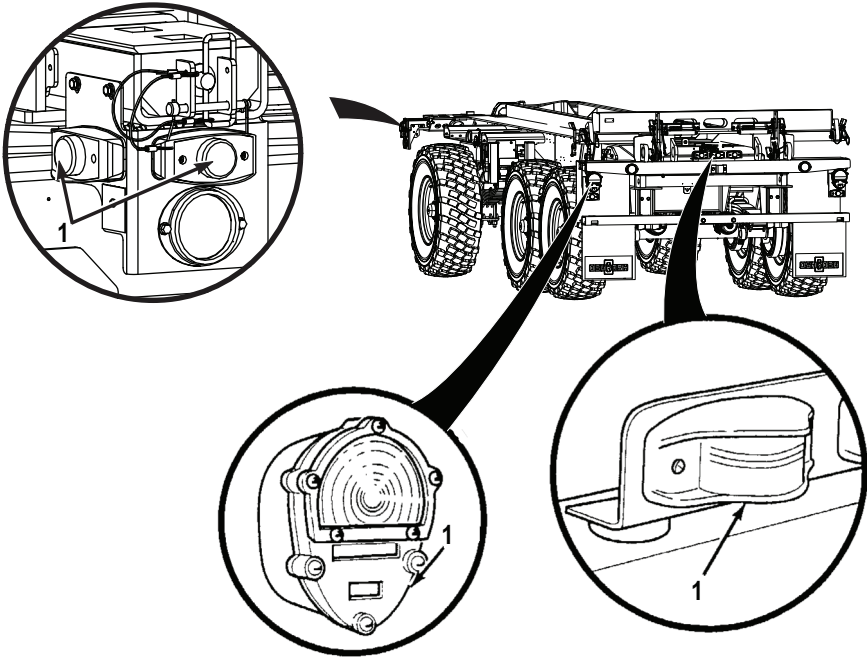
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
				

Figure 7. PMCS Before.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
OPERATOR'S PMCS - DURING

INITIAL SETUP:

Not Applicable

Table 1. OPERATOR'S PMCS - DURING.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	During	Load Locks	Operate button (Figure 1, Item 1) and extend and retract load locks (Figure 1, Item 2).	One or more load locks will not operate.

Table 1. OPERATOR'S PMCS - DURING - Continued.

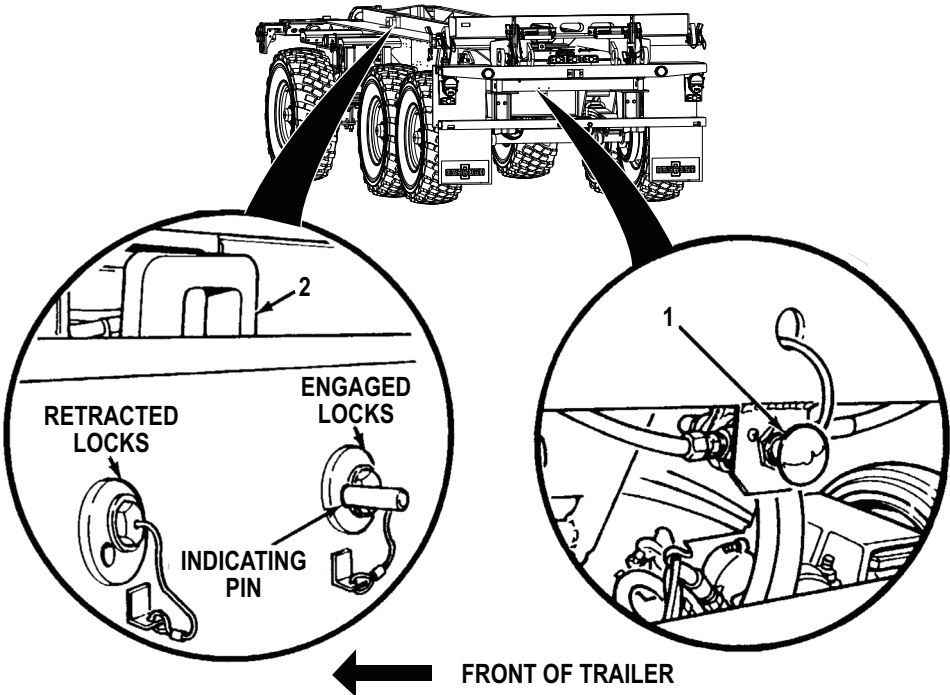
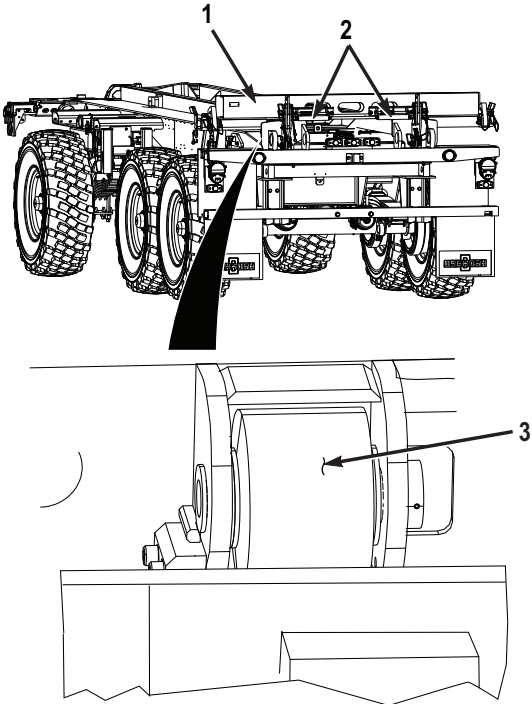
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<div><p>FRONT OF TRAILER</p><p>Figure 1. PMCS During.</p></div>				
2	During	Cart	Check cart (Figure 2, Item 1) for proper operation.	Cart does not operate properly.

Table 1. OPERATOR'S PMCS - DURING - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
 <p>Figure 2. PMCS During.</p>				
3	During	Cart Rollers (Rear)	Check cart rollers (rear) (Figure 2, Item 2) for proper operation.	Cart rollers (rear) do not operate properly.
4	During	Cart Rollers (Bottom)	Check cart rollers (bottom) (Figure 2, Item 3) for proper operation.	Cart rollers (bottom) do not operate properly.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
OPERATOR'S PMCS - AFTER

INITIAL SETUP:

- References
- WP 0022
 - WP 0054

Table 1. OPERATOR'S PMCS - AFTER.

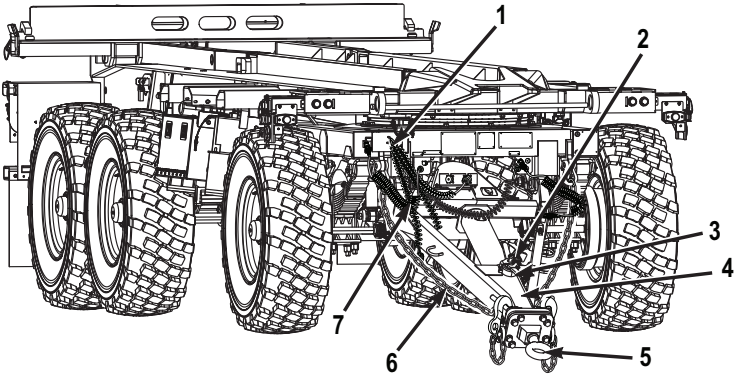
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	After	Drawbar	Visually inspect drawbar (Figure 1, Item 4) for obvious damage, missing parts, or cracks.	Drawbar has obvious cracks, damage, or missing parts that would impair operation.
				
Figure 1. PMCS After.				
2	After	Drawbar Tow Ring	Check for loose or bent tow ring (Figure 1, Item 5). If looseness or bending is found, notify Field Maintenance.	Drawbar tow ring is loose or bent.

Table 1. OPERATOR'S PMCS - AFTER - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
3	After	Drawbar Locking Pin	Visually inspect drawbar locking pin (Figure 1, Item 3) and latch (Figure 1, Item 2) for missing or broken parts.	Drawbar locking pin is missing or locking latch is missing or damaged.
4	After	Safety Chains	Visually inspect safety chains (Figure 1, Item 6) for obvious damage or missing parts.	Safety chains are missing, have missing parts or have damage that impair operation.
5	After	Intervehicular Power Cables	Visually inspect intervehicular power cables (Figure 1, Item 7) and load lock status line (Figure 1, Item 1) for obvious damage or damaged pin connectors.	Intervehicular power cables or load lock status line is missing or have damaged or broken pin connectors that would impair operation.
6	After	Wheels and Tires	<p>WARNING</p> <p>While changing tires or while performing tire maintenance, stay out of the trajectory as shown by the area indicated. Failure to comply may result in injury or death to personnel.</p> <p>NOTE</p> <p>Trajectory area as shown applies to all wheel/tire assemblies.</p> <p>Visually inspect tires (Figure 2, Item 3) for cuts, gouges, cracks, and foreign objects. Check for missing valve stem caps (Figure 2, Item 4).</p>	Tires missing or unserviceable.

Table 1. OPERATOR'S PMCS - AFTER - Continued.

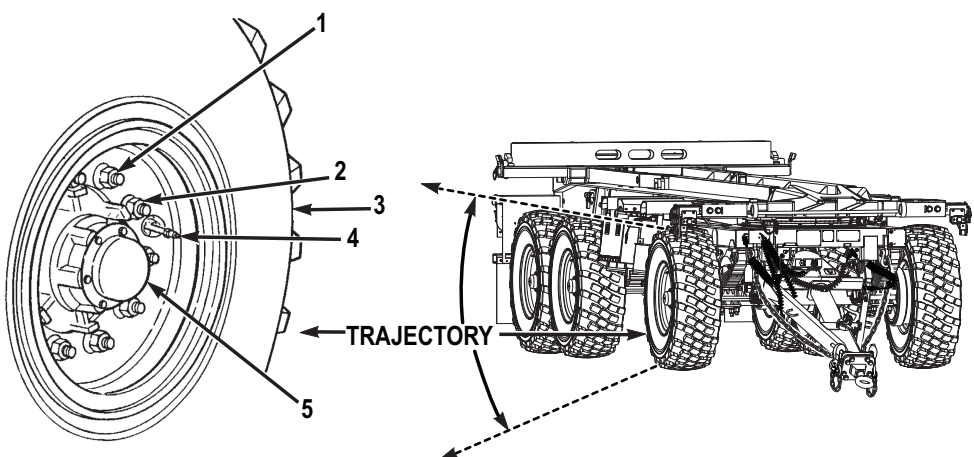
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
 <p>Figure 2. PMCS After.</p>				
			<p>Check for missing, cracked, and broken studs (Figure 2, Item 1) and lugnuts (Figure 2, Item 2).</p> <p>Check for damaged wheel end covers (Figure 2, Item 5).</p>	One or more studs or lugnuts are missing from the same wheel.
7	After	Spare Tire	<p>WARNING</p> <p>While changing tires or while performing tire maintenance, stay out of the trajectory as shown by the area indicated. Failure to comply may result in injury or death to personnel.</p>	

Table 1. OPERATOR'S PMCS - AFTER - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			<p>NOTE</p> <p>Trajectory area as shown applies to all wheel/tire assemblies.</p> <p>Visually inspect spare tire (Figure 3, Item 1) for cuts, gouges, cracks, and foreign objects.</p> <p>Spare tire is missing, deflated, or unserviceable.</p>	<p>Check spare tire for proper inflation. (WP 0054)</p>

Table 1. OPERATOR'S PMCS - AFTER - Continued.

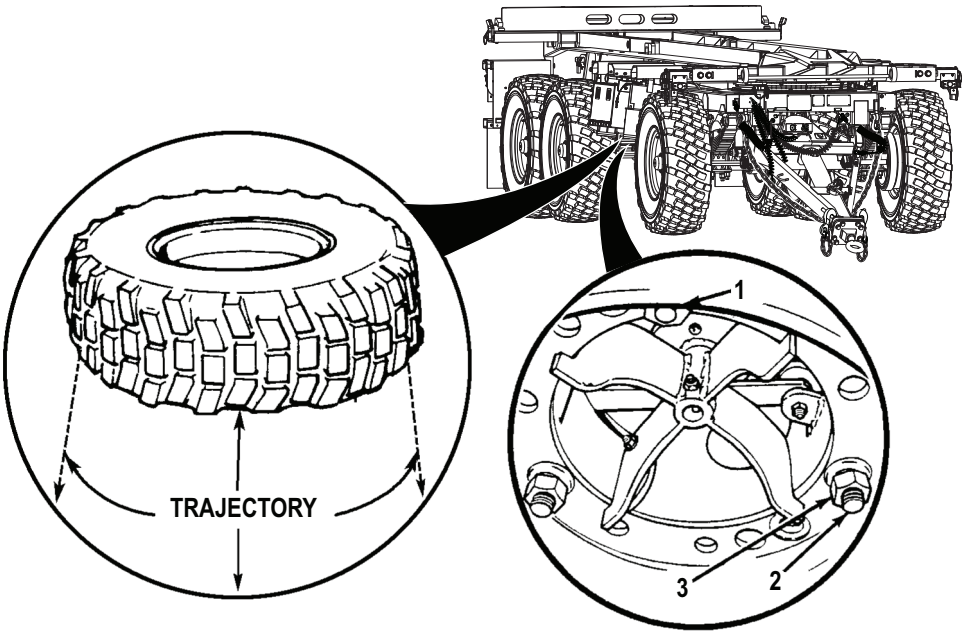
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
				
			Check for missing, cracked, and broken studs (Figure 3, Item 2) and lugnuts (Figure 3, Item 3).	One or more studs or lugnuts are missing from spare tire.
8	After	Air Reservoirs	<p>Pull cable (Figure 4, Item 1) on all three air reservoirs and observe air stream for presence of moisture.</p> <p>Drain air until only air comes out.</p>	

Table 1. OPERATOR'S PMCS - AFTER - Continued.

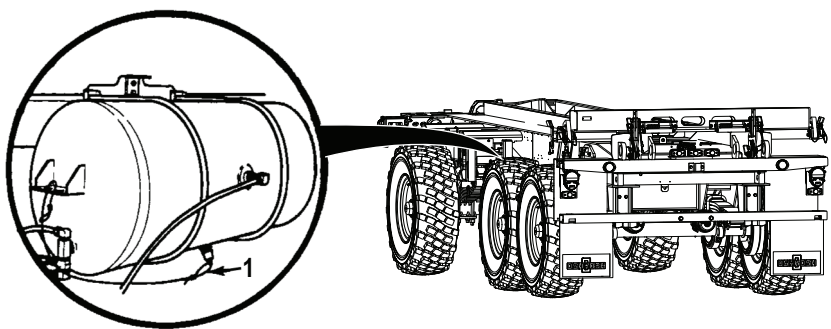
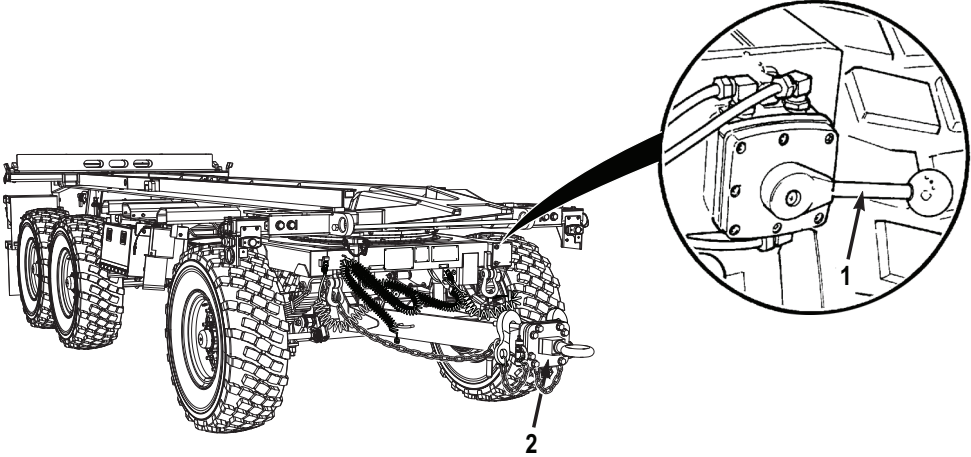
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
				
Figure 4. PMCS After.				
9	After	Air Assist	<p>NOTE</p> <p>Air assist system must be charged in order for air bag to function (WP 0022).</p> <p>Check air assist lever (Figure 5, Item 1) for proper operation.</p> <p>Drawbar (Figure 5, Item 2) should raise and lower freely.</p>	

Table 1. OPERATOR'S PMCS - AFTER - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<div><p>The diagram shows a side view of a vehicle chassis with multiple wheels. A circular inset provides a magnified view of a mechanical assembly, likely a suspension or steering component, with an arrow pointing to a specific part labeled '1'. Another label '2' points to a component on the main chassis view.</p></div> <p>Figure 5. PMCS After.</p>				

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
OPERATOR'S PMCS - WEEKLY

INITIAL SETUP:

References
WP 0054

Table 1. OPERATOR'S PMCS - WEEKLY.

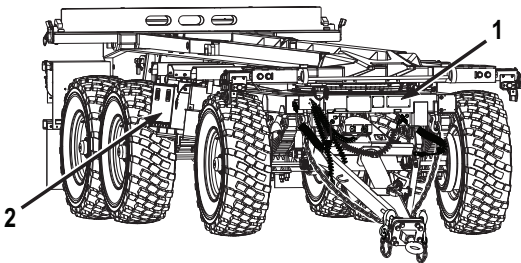
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Weekly	Frame	Walk around trailer and visually inspect for obvious damage to trailer frame (Figure 1, Item 1) and stowage box (Figure 1, Item 2).	Trailer has damage to frame that would impair operation.
				
Figure 1. PMCS Weekly.				
2	Weekly	Shock Absorbers	Visually check shock absorbers (Figure 2, Item 1) for leaks or obvious damage.	Damage to shock absorbers that would impair operation.

Table 1. OPERATOR'S PMCS - WEEKLY - Continued.

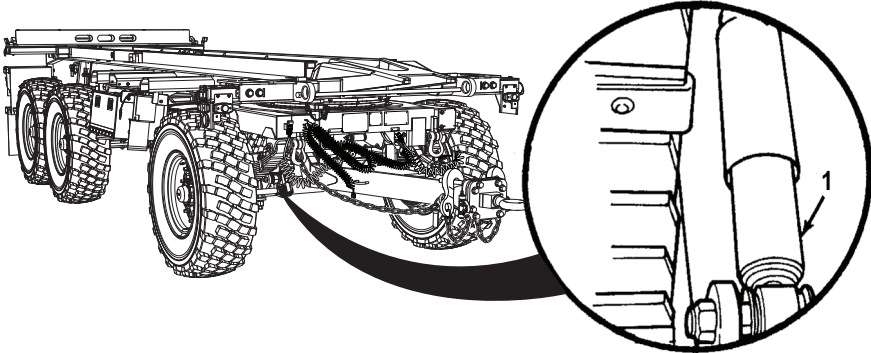
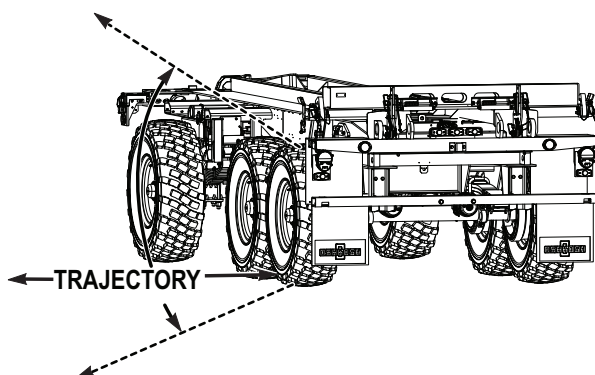
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<div></div> <p>Figure 2. PMCS Weekly.</p>				
3	Weekly	Tire Pressure	<p>WARNING</p> <p>While changing tires or while performing tire maintenance, stay out of the trajectory as shown by the area indicated. Failure to comply may result in injury or death to personnel.</p> <p>WARNING</p> <p>Under some circumstances, the trajectory may deviate from its expected path. Failure to comply may result in injury or death to personnel.</p> <p>NOTE</p> <p>Trajectory area as shown applies to all wheel/tire assemblies.</p>	

Table 1. OPERATOR'S PMCS - WEEKLY - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			Check tires for proper inflation. Inflate as required. (WP 0054)	Any tire deflated.



COLD TIRE PRESSURE (PSI)	
TERRAIN	FRONT AXLE
HIGHWAY	87
CROSS COUNTRY	51
MUD, SAND, SNOW	32
	REAR TANDEM
HIGHWAY	80
CROSS COUNTRY	46
MUD, SAND, SNOW	29

Figure 3. PMCS Weekly.

Figure 3. PMCS Weekly.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
OPERATOR'S PMCS - MONTHLY

INITIAL SETUP:

Not Applicable

Table 1. OPERATOR'S PMCS - MONTHLY.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Monthly	Mudflaps	Visually inspect mudflaps for missing parts or torn rubber.	

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
OPERATOR'S PMCS - SEMI-ANNUAL

INITIAL SETUP:

Tools and Special Tools

Gun, Grease (Refer to vehicle
Operator's manual) (WP 0057)

References

WP 0024
WP 0028

Materials/Parts

Grease, Automotive and Artillery
(GAA) (WP 0060, Table 1, Item 4,
5, 6, 7, 8)

Table 1. OPERATOR'S PMCS - SEMI-ANNUAL.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Semi-annual	ISO Locks	<p>Install ISO locks on ISO lock mounts (WP 0024).</p> <p>NOTE</p> <ul style="list-style-type: none">When using a grease gun, apply lubricant to lube fitting until clean lubricant squeezes out of part being lubricated.Lubricate fittings with a manual grease gun. Do not use an air-powered grease gun.	

Table 1. OPERATOR'S PMCS - SEMI-ANNUAL - Continued.

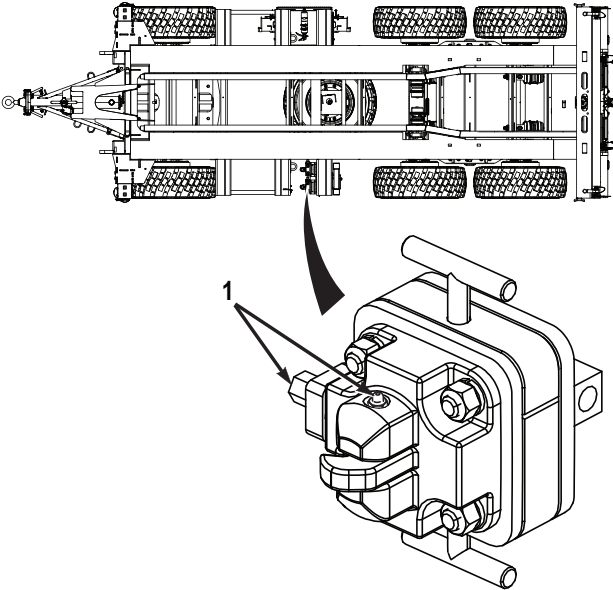
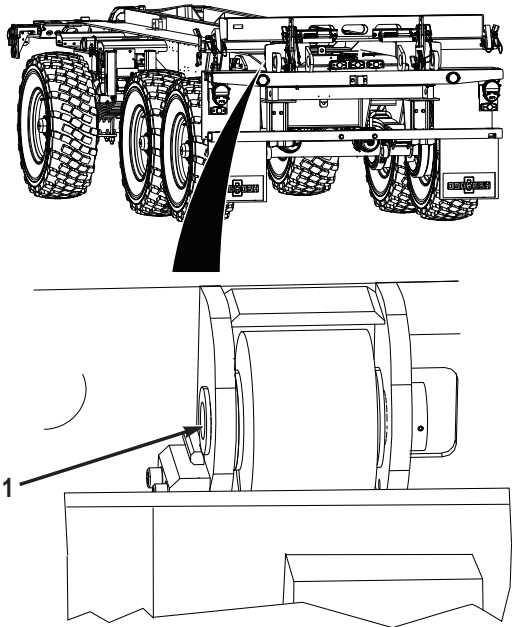
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			<p>Lubricate both ISO locks (Figure 1, Item 1) with GAA grease (WP 0060, Table 1, Item 4, 5, 6, 7, 8). Install ISO locks on ISO lock bracket (WP 0024).</p> 	
2	Semi-annual	Cart rollers (bottom)	<p>Move cart to front of trailer (WP 0028).</p> <p>Lubricate both cart rollers (bottom) (Figure 2, Item 1) with GAA grease (WP 0060, Table 1, Item 4, 5, 6, 7, 8).</p>	

Figure 1. PMCS Semi-Annual.

Table 1. OPERATOR'S PMCS - SEMI-ANNUAL - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<div></div> <p>Figure 2. PMCS Semi-Annual.</p>				
			Move cart to rear of trailer (WP 0028).	

END OF TASK

END OF WORK PACKAGE

CHAPTER 5

MAINTENANCE INSTRUCTIONS

OPERATOR MAINTENANCE
SERVICE TIRES

INITIAL SETUP:

Tools and Special Tools

Gauge, Inflation (Refer to vehicle
Operator's manual) (WP 0057)
Hose, Air (WP 0058, Table 2, Item 7)

Equipment Condition

Wheels chocked. (WP 0020)

References

Fig. 2028
WP 0057

CHECK/ADJUST TIRE AIR PRESSURE

WARNING

Failure to comply with these procedures may result in faulty positioning of the tire and/or rim parts, and cause the assembly to burst with explosive force. Never mount or use damaged tires or rims. Failure to comply may result in injury or death to personnel.

WARNING

Before checking tire pressure, perform tire check. Failure to comply may result in injury or death to personnel.

CAUTION

Check tire pressure before operation when tire is still cold to obtain proper value. Failure to comply may result in damage to equipment.

1. Refer to Standard Tire Pressure Table below to ensure tires have correct air pressure for road condition.

Table 1. Standard Tire Pressure.

Axle Location	Highway	Cross Country	Mud, Sand, and Snow
Front	87 psi (600 kPa)	51 psi (352 kPa)	32 psi (221 kPa)

CHECK/ADJUST TIRE AIR PRESSURE - Continued

Table 1. Standard Tire Pressure - Continued.

Axle Location	Highway	Cross Country	Mud, Sand, and Snow
Rear	80 psi (552 kPa)	46 psi (317 kPa)	29 psi (200 kPa)
Spare Tire	87 psi (600 kPa)	87 psi (600 kPa)	87 psi (600 kPa)

2. Remove air hose (Figure 1, Item 4) and inflation gauge (Figure 1, Item 3) from vehicle BII storage box. Refer to vehicle Operator's manual (WP 0057).

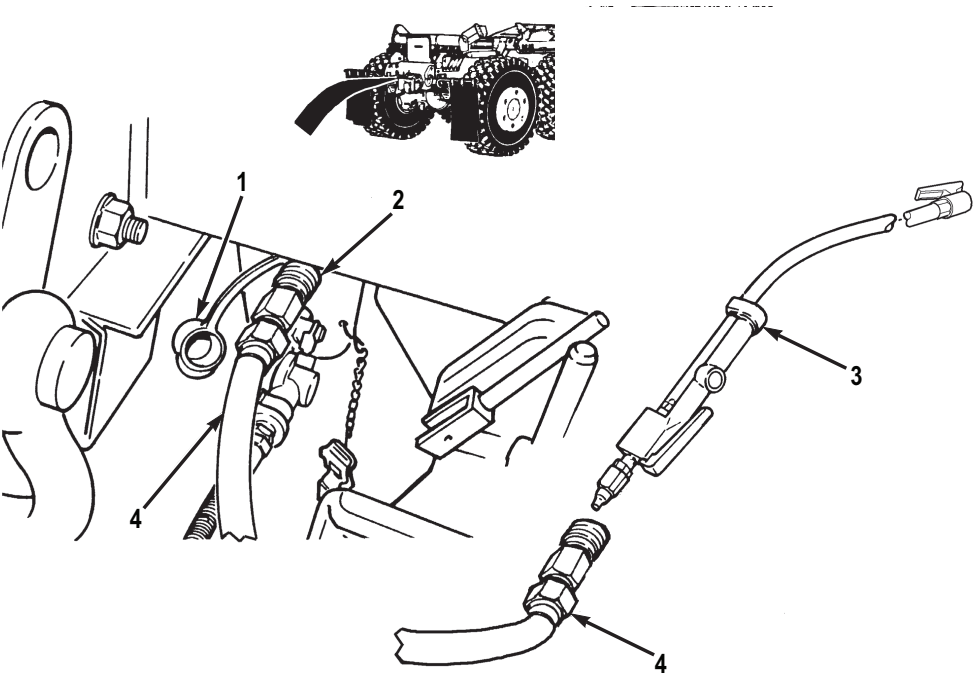


Figure 1. Service Tires.

3. Connect air hose (Figure 1, Item 4) to inflation gauge (Figure 1, Item 3).
4. Remove cover (Figure 1, Item 1) from vehicle air coupler (Figure 1, Item 2) and connect remaining end of air hose (Figure 1, Item 4).
5. Start engine. Refer to vehicle Operator's manual (WP 0057).
6. Remove valve stem cap (Figure 2, Item 2) from valve stem (Figure 2, Item 1).

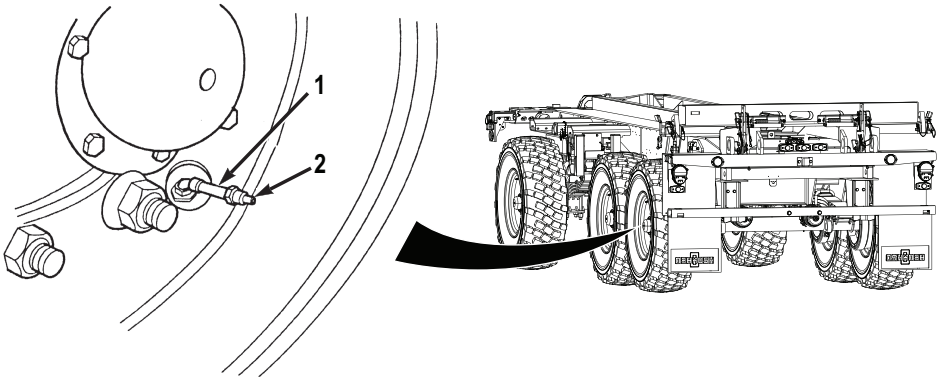
CHECK/ADJUST TIRE AIR PRESSURE - Continued

Figure 2. Service Tires.

WARNING

While changing tires or while performing tire maintenance, stay out of the trajectory as shown by the area indicated. Failure to comply may result in injury or death to personnel.

WARNING

Never inflate a tire without checking to ensure that the side ring is still properly seated and the lockring is properly seated in the lockring groove. Ensure that the side ring, lockring and lockring groove are not damaged. The side ring and lockring may blow off during inflation/deflation. Failure to comply may result in injury or death to personnel.

WARNING

Improperly seated lockrings and side rings may blow off at any time. Never attempt to seat a lockring or side ring during or after inflation. Failure to comply may result in injury or death to personnel.

WARNING

When inflating tires mounted on the trailer, all personnel must remain out of the trajectory of the side ring and lockring as shown by the areas indicated. Failure to comply may result in injury or death to personnel.

CHECK/ADJUST TIRE AIR PRESSURE - Continued**NOTE**

- Air chuck must clamp securely with no leaks or inflation gauge readings will be inaccurate.
 - Trajectory area as shown applies to all wheel/tire assemblies.
7. Push latch handles (Figure 3, Item 2) inward, while pushing air chuck (Figure 3, Item 3) onto valve stem (Figure 3, Item 1). Release latch handle and immediately step out of the trajectory area. Check inflation gauge reading and compare to Unsafe Inflation Pressures Table below.

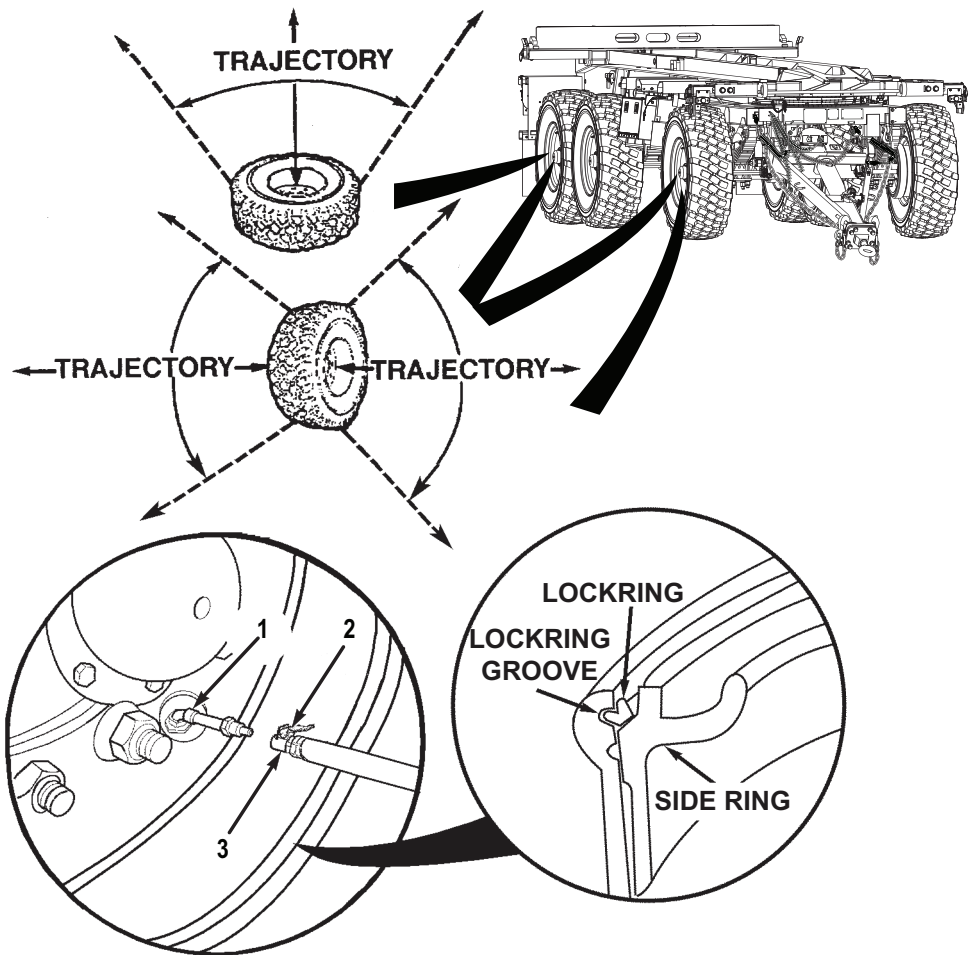
CHECK/ADJUST TIRE AIR PRESSURE - Continued

Figure 3. Service Tires.

CHECK/ADJUST TIRE AIR PRESSURE - Continued**Table 2. Unsafe Inflation Pressures.**

	Spare Tire Is:	Spare Tire Is:	Front Tires Are:	Rear Tires Are:	Front Tires Are:	Rear Tires Are:
	Over-inflated. Tire pressure measured is 25% or more above standard pressure. Do not adjust pressure if above pressure shown below.	Under-inflated. Tire pressure measured is 80% or less than the standard tire pressure. Do not adjust pressure if below pressure shown below.	Over-inflated. Tire pressure measured is 25% or more above standard pressure. Do not adjust pressure if above pressure shown below.	Over-inflated. Tire pressure measured is 25% or more above standard pressure. Do not adjust pressure if above pressure shown below.	Under-inflated. Tire pressure measured is 80% or less than the standard tire pressure. Do not adjust pressure if below pressure shown below.	Under-inflated. Tire pressure measured is 80% or less than the standard tire pressure. Do not adjust pressure if below pressure shown below.
Highway	109 psi (752 kPa)	70 psi (483 kPa)	109 psi (752 kPa)	100 psi (690 kPa)	70 psi (483 kPa)	64 psi (441 kPa)
Cross-Country	109 psi (752 kPa)	70 psi (483 kPa)	64 psi (441 kPa)	58 psi (400 kPa)	41 psi (283 kPa)	37 psi (255 kPa)
Mud, Sand, and Snow	109 psi (752 kPa)	70 psi (483 kPa)	40 psi (276 kPa)	36 psi (248 kPa)	26 psi (179 kPa)	23 psi (159 kPa)

WARNING

While changing tires or while performing tire maintenance, stay out of the trajectory as shown by the area indicated. Failure to comply may result in injury or death to personnel.

CHECK/ADJUST TIRE AIR PRESSURE - Continued**WARNING**

Never inflate a tire without checking to ensure that the side ring is still properly seated and the lockring is properly seated in the lockring groove. Ensure that the side ring, lockring and lockring groove are not damaged. The side ring and lockring may blow off during inflation/deflation. Failure to comply may result in injury or death to personnel.

WARNING

When inflating tires mounted on the trailer, all personnel must remain out of the trajectory of the side ring and lockring as shown by the areas indicated. Failure to comply may result in injury or death to personnel.

WARNING

If the tire has been driven on when under inflated or overinflated or there is obvious or suspected damage on the tire or wheel components, the tire must be completely deflated. To deflate the tire, remove the valve core from the valve stem and stand out of the trajectory area. Failure to comply may result in injury or death to personnel.

WARNING

If tire has been run flat, or is over or under inflated when tire is measured and operating terrain is compared to Unsafe Tire Inflation Pressures, or if wheel/tire assembly has obvious or suspected damage, it is not safe to adjust tire pressure. Completely deflate tire and remove tire from axle. Failure to follow these procedures may result in injury or death to personnel.

8. If tire is underinflated or overinflated or if the wheel or tire has obvious damage or suspected damage, stand out of trajectory range. Remove inflation gauge (Figure 5, Item 3) from air hose (Figure 5, Item 5) and press handle (Figure 5, Item 4) until all air pressure has exhausted from inflation gauge. When tire is completely deflated, remove from trailer and take to Field Maintenance for disassembly and repair.
9. If tire is not underinflated or overinflated and the wheel or tire does not have obvious damage or suspected damage, stand out of trajectory range and inflate or deflate until proper pressure (refer to Table 1.) is attained. Press in latch handle (Figure 4, Item 2) and pull air chuck (Figure 4, Item 3) from valve stem (Figure 4, Item 1). Install valve cap (Figure 4, Item 4).

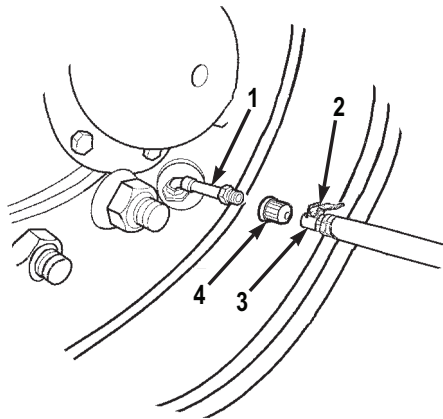
CHECK/ADJUST TIRE AIR PRESSURE - Continued

Figure 4. Service Tires.

10. Shut OFF engine. Refer to vehicle Operator's manual (WP 0057).

WARNING

Hold end of air line when disconnecting from quick-disconnect coupling. Air line is under pressure and can fly out at fast rate of speed. Failure to comply may result in injury or death to personnel.

11. Remove air hose (Figure 5, Item 5) from air coupler (Figure 5, Item 2). Install cover (Figure 5, Item 1) on air coupler.

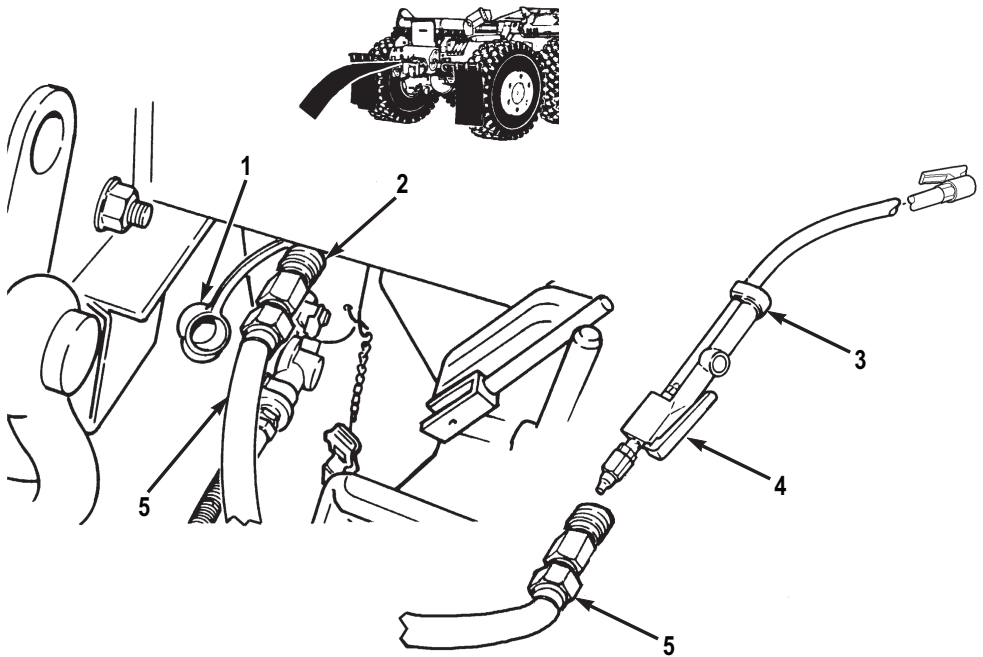
CHECK/ADJUST TIRE AIR PRESSURE - Continued

Figure 5. Service Tires.

12. Remove inflation gauge (Figure 5, Item 3) from air hose (Figure 5, Item 5). Stow air hose and inflation gauge in vehicle BII stowage box.

END OF TASK

FOLLOW-ON MAINTENANCE

Remove wheel chocks. (WP 0020)

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE SPARE TIRE REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Handle, Sliding (Refer to vehicle
Operator's manual) (WP 0057)
Socket, Impact 1-1/2 in. (Refer to
vehicle Operator's manual)
(WP 0057)
Wrench, Extension (Refer to vehicle
Operator's manual) (WP 0057)
Wrench, Impact (Refer to vehicle
Operator's manual) (WP 0057)

References (cont.)

WP 0054
WP 0056

Equipment Condition

Wheels chocked. (WP 0020)

Personnel Required

(2)

References

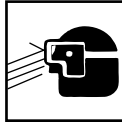
TM 9-2610-200-14 (WP 0057)

REMOVAL

WARNING



Spare tire weighs 425 lbs (193 kg). Keep all personnel clear from under spare tire. Failure to comply may result in injury or death to personnel.

REMOVAL - Continued**WARNING**

Ensure all personnel wear suitable eye protection while lowering spare tire. Failure to comply may result in injury or death to personnel.

WARNING

Ensure personnel are positioned under trailer only far enough to perform procedure. Do not position entire body under tire unless required. Failure to comply may result in injury or death to personnel.

WARNING

If the tire is under inflated or overinflated, or there is obvious or suspected damage on the tire or wheel components, the tire must be completely deflated by attaching inflator gauge to valve stem. Inflator gauge must not be hooked up to air hose. Press down inflator gauge handle until all air pressure has been exhausted. Stand out of the trajectory area. Failure to comply may result in injury or death to personnel.

WARNING

Place wheel/tire assembly in safety guard prior to initial inflation. Failure to comply may result in injury or death to personnel.

WARNING

While changing tires or while performing tire maintenance, stay out of the trajectory as shown by the area indicated. Failure to comply may result in injury or death to personnel.

WARNING

Tire air pressure must be checked properly. Failure to comply may result in injury or death to personnel.

REMOVAL - Continued

WARNING

If tire has been run flat, or is over or under inflated when tire is measured and operating terrain is compared to Unsafe Tire Inflation Pressures, or if wheel/tire assembly has obvious or suspected damage, it is not safe to adjust tire pressure. Completely deflate tire (WP 0054), and remove tire from axle. Failure to follow these procedures may result in injury or death to personnel.

NOTE

- Air wrench from PLS vehicle may be used in place of sliding handle and extension wrench.
- Trajectory area as shown applies to all wheel/tire assemblies.

Table 1. Unsafe Inflation Pressures.

	Spare Tire Is:	Spare Tire Is:
	Overinflated. Tire pressure measured is 25% or more above standard pressure.Do not adjust pressure if above pressure shown above.	Underinflated. Tire pressure measured is 80% or less than the standard tire pressure.Do not adjust pressure if below pressure shown below.
Spare Tire Pressure	109 psi (752 kPa)	70 psi (483 kPa)

1. Take tire pressure reading on spare tire and compare reading to Table 1. If tire is overinflated or underinflated or there is obvious or suspected damage to tire or wheel components, completely deflate tire (WP 0054) and stand out of trajectory range before lowering tire from trailer.
2. Remove slide handle, extension wrench, and socket from stowage box (Figure 1, Item 1).

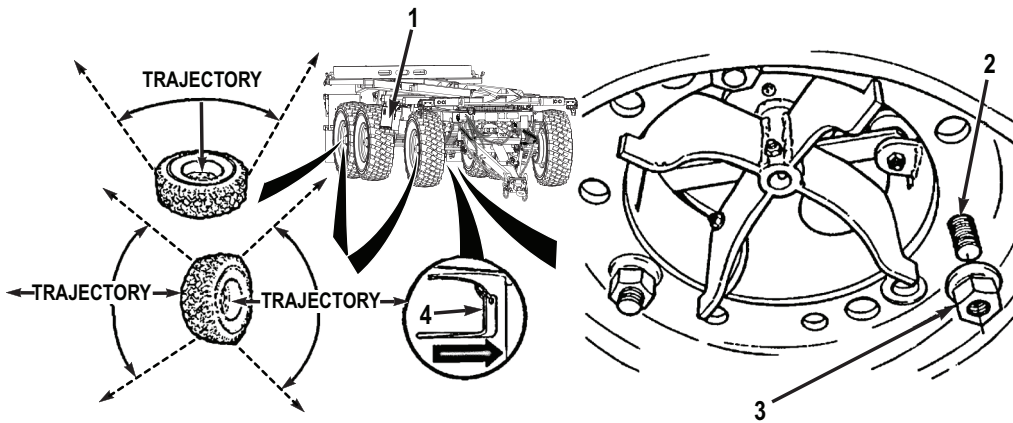
REMOVAL - Continued

Figure 1. Spare Tire Removal.

3. Ensure handle (Figure 1, Item 4) is in LOCKED position.
4. Remove three nuts (Figure 1, Item 3) from studs (Figure 1, Item 2).

WARNING

Ensure slide handle or air wrench and socket are held securely in place while lowering spare tire. Failure to comply may result in injury to personnel and/or damage to equipment.

WARNING

Wear hearing protection when lowering spare tire. Failure to comply may result in injury or death to personnel.

CAUTION

Ensure safety latch is held in release position until spare tire is lowered to ground. If safety latch is not held in release position, spare tire will not lower to ground.

REMOVAL - Continued

5. Pull safety latch cable (Figure 2, Item 4) to UNLOCK position and turning winch bolt assembly (Figure 2, Item 1) counterclockwise; lower spare tire (Figure 2, Item 2) approximately 4 in. (102 mm) from spare tire bracket (Figure 2, Item 3).

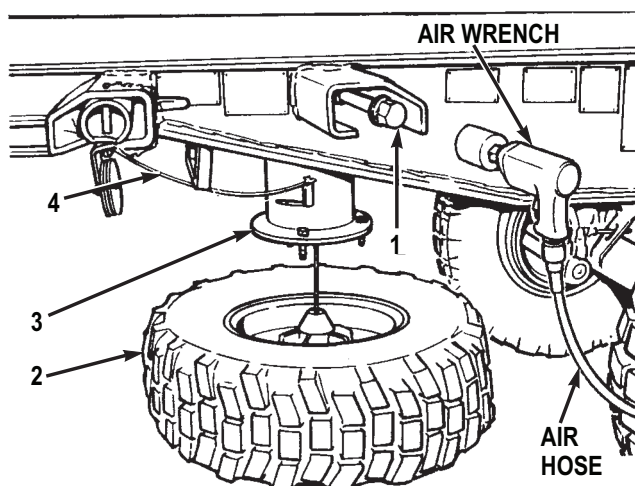


Figure 2. Spare Tire Removal.

WARNING

Ensure all personnel wear protective gloves when handling cable. Cable may fray. Failure to comply may result in injury or death to personnel.

6. Release safety latch cable (Figure 2, Item 4).
7. Turning winch bolt assembly (Figure 2, Item 1) counterclockwise, lower spare tire (Figure 2, Item 2).
8. Remove lift assembly (Figure 3, Item 1) from spare tire (Figure 3, Item 2).

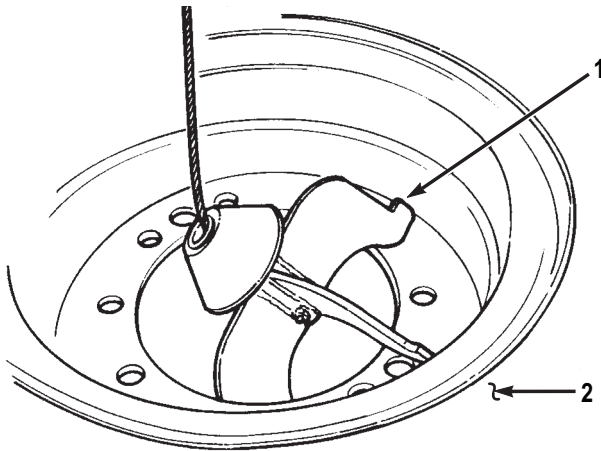
REMOVAL - Continued

Figure 3. Spare Tire Removal.

9. Install lift assembly hook (Figure 4, Item 1) in spare tire stud hole (Figure 4, Item 2).

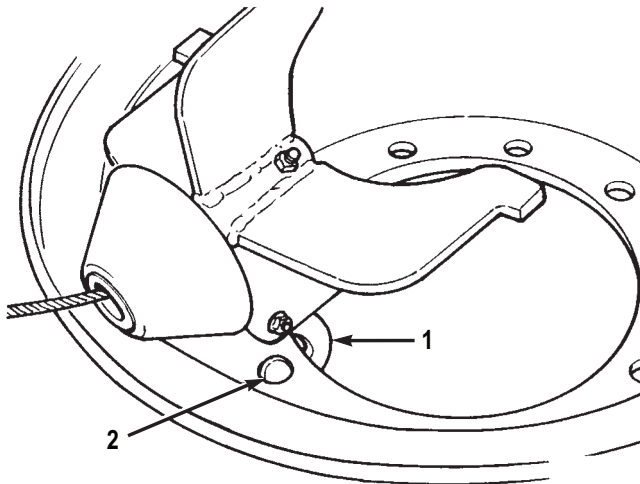


Figure 4. Spare Tire Removal.

10. Remove safety clip (Figure 5, Item 3) and pin (Figure 5, Item 1) from pulley assembly (Figure 5, Item 4).

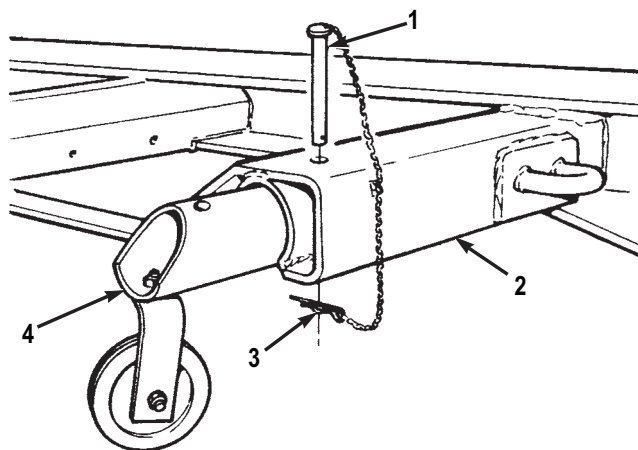
REMOVAL - Continued

Figure 5. Spare Tire Removal.

11. Extend pulley assembly (Figure 5, Item 4) until second hole lines up with hole in support (Figure 5, Item 2).
12. Install pin (Figure 5, Item 1) and safety clip (Figure 5, Item 3) in pulley assembly (Figure 5, Item 4).

WARNING

Ensure all personnel wear protective gloves when handling cable. Cable may fray. Failure to comply may result in injury or death to personnel.

13. Turning winch bolt assembly (Figure 6, Item 1) counterclockwise, remove 10 ft (3 m) of cable (Figure 6, Item 3) from winch assembly.

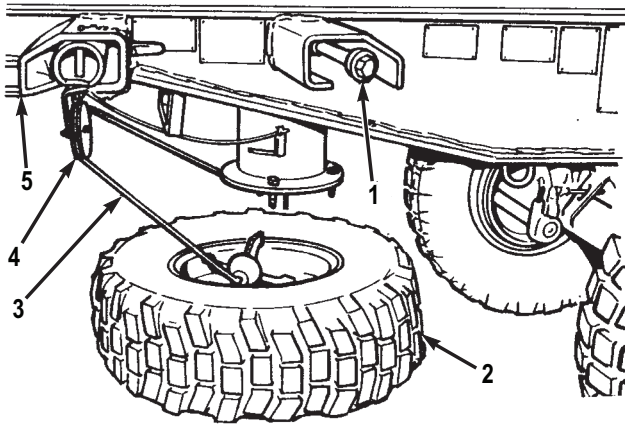
REMOVAL - Continued

Figure 6. Spare Tire Removal.

14. Install cable (Figure 6, Item 3) on pulley assembly (Figure 6, Item 4).

CAUTION

To prevent knotting and binding, ensure there is tension on cable when reeling it in. Failure to comply may result in damage to equipment.

15. Turn rod assembly (Figure 6, Item 1) clockwise and remove spare tire (Figure 6, Item 2) from under trailer (Figure 6, Item 5).

WARNING

Spare tire weighs 425 lbs (193 kg). Keep all personnel clear from under spare tire. Failure to comply may result in injury or death to personnel.

16. Turn rod assembly (Figure 7, Item 1) clockwise and raise spare tire (Figure 7, Item 5) to upward position.

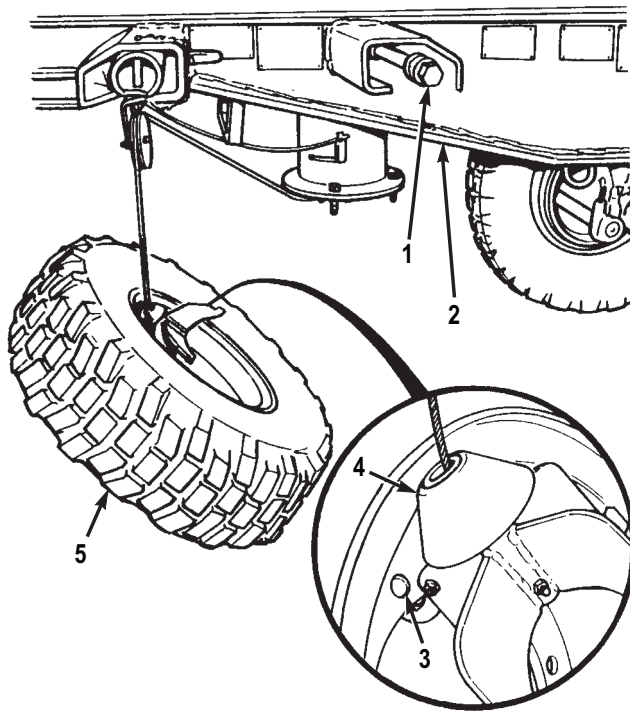
REMOVAL - Continued

Figure 7. Spare Tire Removal.

17. With the aid of an assistant, support spare tire (Figure 7, Item 5) and remove lift assembly (Figure 7, Item 4) from spare tire stud hole (Figure 7, Item 3).
18. With the aid of an assistant, position spare tire (Figure 7, Item 5) against trailer (Figure 7, Item 2).
19. Remove cable (Figure 8, Item 3) from pulley assembly (Figure 8, Item 5).

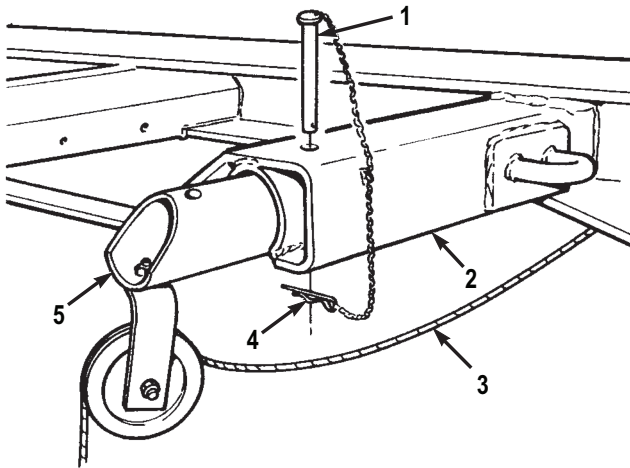
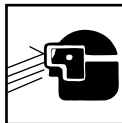
REMOVAL - Continued

Figure 8. Spare Tire Removal.

20. Remove safety clip (Figure 8, Item 4) and pin (Figure 8, Item 1) from pulley assembly (Figure 8, Item 5).
21. Retract pulley assembly (Figure 8, Item 5) to stow position in support (Figure 8, Item 2) and install pin (Figure 8, Item 1) and safety clip (Figure 8, Item 4) in pulley assembly.
22. Change tire (WP 0056).

END OF TASK**INSTALLATION****WARNING**

Ensure all personnel wear suitable eye protection while lowering spare tire. Failure to comply may result in injury or death to personnel.

INSTALLATION - Continued**WARNING**

Ensure personnel are positioned under trailer only far enough to perform procedure. Do not position entire body under tire unless required. Failure to comply may result in injury or death to personnel.

WARNING

Spare tire weighs 425 lbs (193 kg). Keep all personnel clear from under spare tire. Failure to comply may result in injury or death to personnel.

WARNING

Place wheel/tire assembly in safety guard prior to initial inflation. Failure to comply may result in injury or death to personnel.

1. Position spare tire (Figure 9, Item 4) on flat surface with inside of rim (Figure 9, Item 3) facing up.

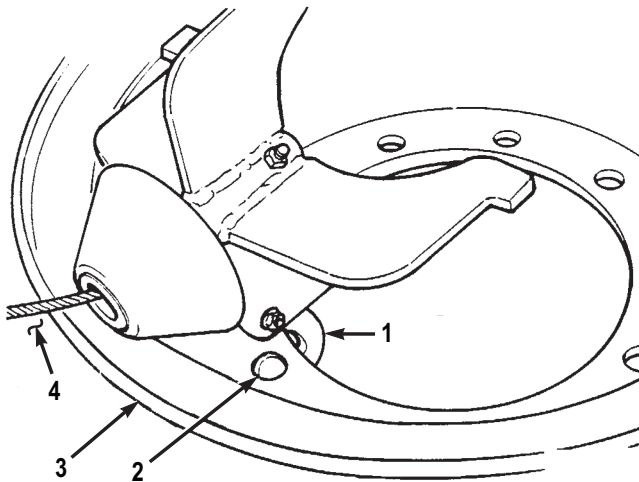
INSTALLATION - Continued

Figure 9. Spare Tire Installation.

CAUTION

- Ensure lift assembly does not enter stud holes in rim of spare tire or spare tire will not be installed properly on spare tire bracket.
- To prevent knotting and binding, ensure there is tension on cable when reeling it in. Failure to comply may result in damage to equipment.

2. Install lift assembly hook (Figure 9, Item 1) in stud hole (Figure 9, Item 2) of spare tire (Figure 9, Item 4).

WARNING

Ensure all personnel wear protective gloves when handling cable. Cable may fray. Failure to comply may result in injury or death to personnel.

INSTALLATION - Continued**WARNING**

Wear hearing protection when lowering spare tire. Failure to comply may result in injury or death to personnel.

3. Turn rod assembly (Figure 10, Item 3) clockwise and slide spare tire (Figure 10, Item 4) under spare tire bracket (Figure 10, Item 2) on trailer (Figure 10, Item 1).

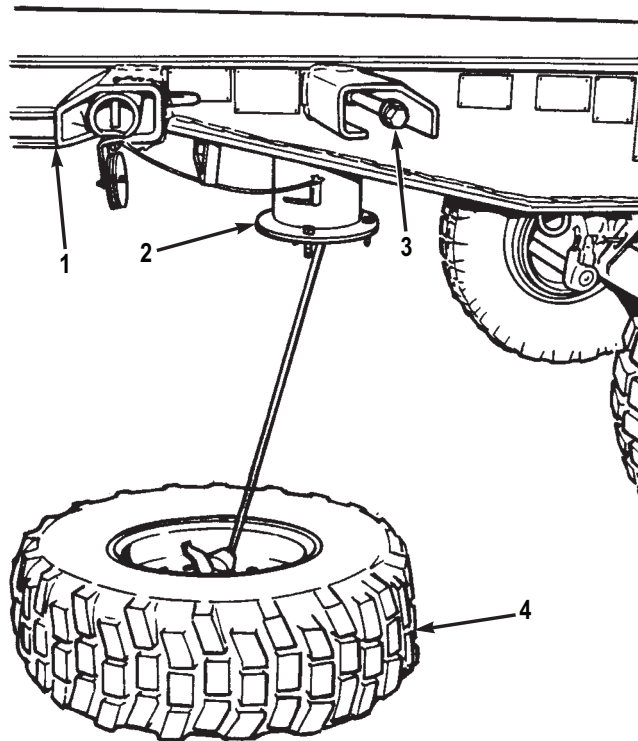


Figure 10. Spare Tire Installation.

4. Turn rod assembly (Figure 11, Item 1) counterclockwise to loosen cable (Figure 11, Item 6).

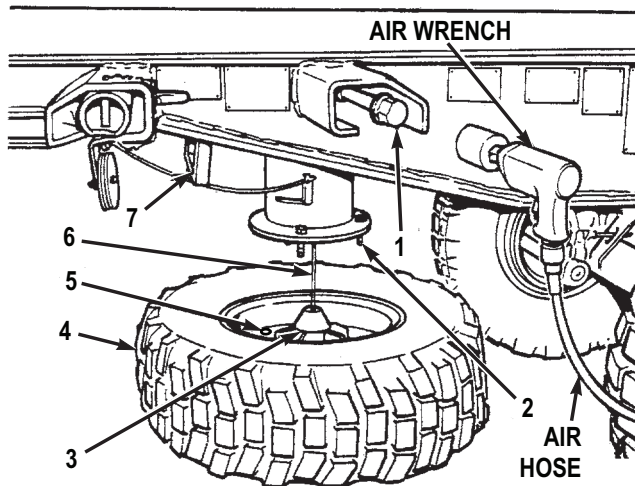
INSTALLATION - Continued

Figure 11. Spare Tire Installation.

5. Install lift assembly (Figure 11, Item 3) on spare tire (Figure 11, Item 4).

CAUTION

Ensure studs are aligned with stud holes before positioning tire on bracket. Failure to comply may cause damage to equipment.

6. Turn rod assembly (Figure 11, Item 1) clockwise and raise spare tire (Figure 11, Item 4) and position until studs (Figure 11, Item 2) and stud holes (Figure 11, Item 5) are aligned.
7. Tighten winch bolt (Figure 11, Item 1) until spare tire (Figure 11, Item 4) contacts both tire stops (Figure 11, Item 7).
8. Ensure handle (Figure 12, Item 3) is in LOCKED position.

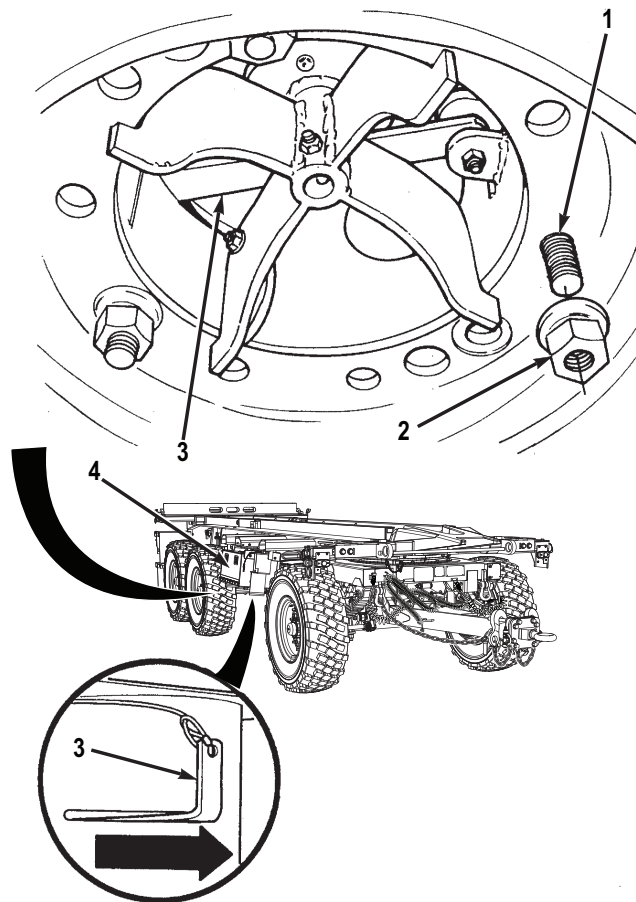
INSTALLATION - Continued

Figure 12. Spare Tire Installation.

9. Install three nuts (Figure 12, Item 2) on studs (Figure 12, Item 1).
10. Return tools to stowage box (Figure 12, Item 4).

END OF TASK**FOLLOW-ON MAINTENANCE**

1. Remove wheel chocks. (WP 0020)
2. Report to Field Maintenance if spare tire needs repair.

FOLLOW-ON MAINTENANCE - Continued

3. Report to Field Maintenance to torque lugnuts as soon as possible.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE TIRE REPLACEMENT

INITIAL SETUP:

Tools and Special Tools

Jack, Hydraulic (Refer to vehicle Operator's manual) (WP 0057)
Handle, Sliding (Refer to vehicle Operator's manual) (WP 0057)
Socket, Impact 1-1/2 in (Refer to vehicle Operator's manual) (WP 0057)
Wrench, Extension (Refer to vehicle Operator's manual) (WP 0057)
Wrench, Impact (Refer to vehicle Operator's manual) (WP 0057)

Personnel Required

(2)

References

TM 9-2610-200-14 (WP 0057)
WP 0054

Equipment Condition

Wheels chocked. (WP 0020)
Parking brake applied. (WP 0016)
Spare tire removed. (WP 0055)

REMOVAL

WARNING

If the tire has been driven on when under inflated or overinflated or there is obvious or suspected damage on the tire or wheel components, the tire must be completely deflated. To deflate the tire, remove the valve core from the valve stem and stand out of the trajectory area. Failure to comply may result in injury or death to personnel.

WARNING

Place wheel/tire assembly in safety guard prior to initial inflation. Failure to comply may result in injury or death to personnel.

WARNING

Tire air pressure must be checked properly. Failure to comply may result in injury or death to personnel.

REMOVAL - Continued

WARNING

If tire has been run flat, or is over or under inflated when tire is measured and operating terrain is compared to Unsafe Tire Inflation Pressures, or if wheel/tire assembly has obvious or suspected damage, it is not safe to adjust tire pressure. Completely deflate tire (WP 0054), and remove tire from axle. Failure to follow these procedures may result in injury or death to personnel.

CAUTION

Check tire pressure before operation when tire is still cold to obtain proper value. Failure to comply may result in damage to equipment.

NOTE

Trajectory area as shown applies to all wheel/tire assemblies.

1. Take tire pressure reading on tire/wheel to be changed and compare reading to Table 1. If tire is overinflated or underinflated or there is obvious or suspected damage to wheel or tire, completely deflate tire before removing from trailer (WP 0054).

Table 1. Unsafe Inflation Pressures.

	Front Tires Are:	Rear Tires Are:	Front Tires Are:	Rear Tires Are:
	Overinflated. Tire pressure measured is 25% or more above standard pressure. Do not adjust pressure if above pressure shown below.	Overinflated. Tire pressure measured is 25% or more above standard pressure. Do not adjust pressure if above pressure shown below.	Underinflated. Tire pressure measured is 80% or less than the standard tire pressure. Do not adjust pressure if below pressure shown below.	Underinflated. Tire pressure measured is 80% or less than the standard tire pressure. Do not adjust pressure if below pressure shown below.
Highway	109 psi (752 kPa)	100 psi (690 kPa)	70 psi (483 kPa)	64 psi (441 kPa)
Cross-Country	64 psi (441 kPa)	58 psi (400 kPa)	41 psi (283 kPa)	37 psi (255 kPa)

REMOVAL - Continued**Table 1. Unsafe Inflation Pressures - Continued.**

	Front Tires Are:	Rear Tires Are:	Front Tires Are:	Rear Tires Are:
Mud, Sand and Snow	40 psi (276 kPa)	36 psi (248 kPa)	26 psi (179 kPa)	23 psi (159 kPa)

WARNING

Never crawl under trailer when performing maintenance unless trailer is securely blocked. Trailer may fall. Failure to comply may result in injury or death to personnel.

- Position jack on chock block and install under axle (Figure 1, Item 4) to be raised.

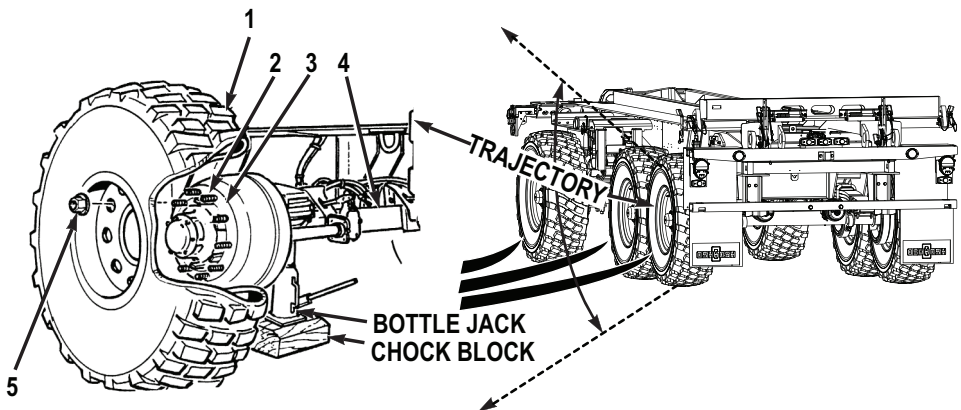


Figure 1. Tire Removal.

- Raise jack until tire (Figure 1, Item 1) clears ground.

REMOVAL - Continued

4. Remove ten lugnuts (Figure 1, Item 5) from wheel studs (Figure 1, Item 2).

WARNING

Spare tire weighs 425 lbs (193 kg). Keep all personnel clear from under spare tire. Failure to comply may result in injury or death to personnel.

5. With the aid of an assistant, remove tire (Figure 1, Item 1) from wheel hub (Figure 1, Item 3).

END OF TASK**INSTALLATION****WARNING**

Never crawl under trailer when performing maintenance unless trailer is securely blocked. Trailer may fall. Failure to comply may result in injury or death to personnel.

WARNING

Spare tire weighs 425 lbs (193 kg). Keep all personnel clear from under spare tire. Failure to comply may result in injury or death to personnel.

1. Position tire (Figure 2, Item 2) on wheel hub (Figure 2, Item 5).

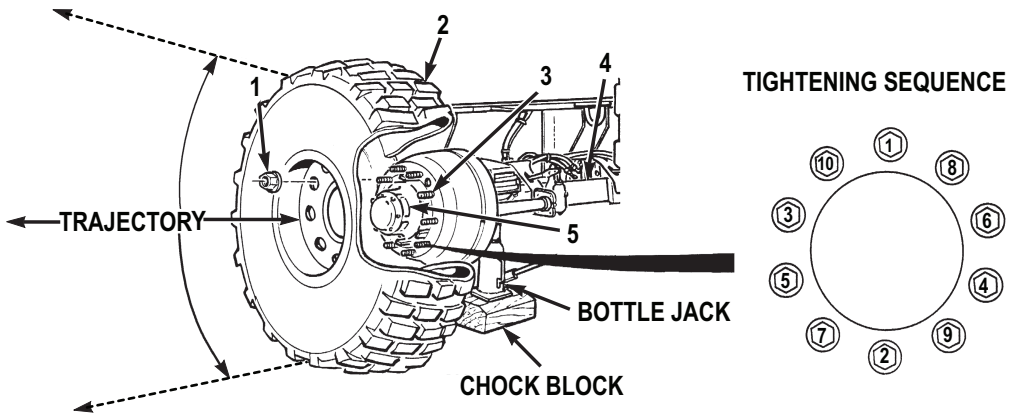
INSTALLATION - Continued

Figure 2. Tire Installation.

2. Install ten lugnuts (Figure 2, Item 1) on wheel studs (Figure 2, Item 3). Tighten lugnuts using tightening sequence shown.

WARNING

When returning axle to the ground, ensure personnel are out of the trajectory as shown by the area indicated. Failure to comply may result in injury or death to personnel.

3. Lower and remove jack and chock block from axle (Figure 2, Item 4).

END OF TASK**FOLLOW-ON MAINTENANCE**

1. Stow defective tire on spare tire bracket. (WP 0055)
2. Remove wheel chocks. (WP 0020)
3. Report to Field Maintenance to torque lugnuts as soon as possible.

END OF TASK**END OF WORK PACKAGE**

CHAPTER 6

SUPPORTING INFORMATION

OPERATOR MAINTENANCE REFERENCES

SCOPE

This work package lists all the pamphlets, forms, field manuals, technical manuals, and other publications referred to in this manual. Also, those publications that should be consulted for additional information about vehicle operations are listed.

DEPARTMENT OF ARMY PAMPHLETS

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

MILITARY PUBLICATION INDEXES

DA PAM 750-8

The Army Maintenance Management System (TAMMS) Users Manual

FIELD MANUALS

FM 3-11.4

Multiservice Tactics, Techniques, and Procedures For Nuclear, Biological, and Chemical (NBC) Protection {MCWP 3-37.2; NTTP 3-11.27; AFTTP (I) 3-2.46} (This Item is included on EM 0205)

FM 3-11.5

Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological and Nuclear Decontamination

FM 4-25.11

First Aid

FM 90-3

Desert Operations

FM 9-207

Operation and Maintenance of Ordnance Materiel in Cold Weather

FORMS

DA Form 2028

Recommended Changes to Publications and Blank Forms

FORMS - Continued

DA Form 2404	Equipment Inspection and Maintenance Worksheet
DA Form 2408-9	Equipment Control Record
DA Form 5988-E	Equipment Inspection/Maintenance Worksheet (EGA)
SF 368	Product Quality Deficiency Report

TECHNICAL MANUALS

TM 750-244-6	Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use (U.S. Army Tank-Automotive Command)
TM 9-2320-319-10-1	Operator's Manual Truck, Tractor, M1074A1 and M1075A1 Palletized Load System (PLS)
TM 9-2320-319-10-2	Operator's Manual Truck, Tractor, M1074A1 and M1075A1 Palletized Load System (PLS)
TM 9-2320-364-10	Operator's Manual Truck, Tractor, M1074 and M1075 Palletized Load System (PLS)
TM 9-2610-200-14	Operator's, Unit, Direct Support, and General Support Maintenance Manual for Care, Maintenance, Repair, and Inspection of Pneumatic Tires and Inner Tubes

MISCELLANEOUS PUBLICATIONS

AR 385-10	The Army Safety Program
AR 750-10	Army Modification Program
ATTP 3-97.11	Cold Region Operations
CTA 50-909	Field and Garrison Furnishings and Equipment
CTA 50-970	Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Item)
CTA 8-100	Army Medical Department Expendable/Durable Items

MISCELLANEOUS PUBLICATIONS - Continued

TB 43-0216	Safety and Hazard Warnings for Operation and Maintenance of TACOM Equipment
TB 9-2320-364-15	Warranty Program for Palletized Load System (PLS) M1074 (NSN 2320-01-304-2277) M1075 (NSN 2320-01-304-2278) M1076 (NSN 2330-01-303-5197) M1077 (NSN 2320-01-307-7676)
TB 9-3950-253-13&P	Operator and field maintenance installation instructions and Repair Parts and Special Tool List (RPSTL) for Palletized Load System (PLS) M1075 and Heavy Expanded Mobility Tactical Truck (HEMTT) M1120 Enhanced Container Handling Unit (ECHU) (NSN 395-20-003-8784)
TC 21-305-20	Manual for the Wheeled Vehicle Operator

END OF WORK PACKAGE

OPERATOR MAINTENANCE COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS

INTRODUCTION

Scope

This work package lists COEI and BII for the PLST M1076 A1 to help you inventory items for safe and efficient operation of the equipment.

General

The COEI and BII information is divided into the following lists:

Components of End Item (COEI). This list is for information purposes only and is not authority to requisition replacements. These items are part of the PLST M1076 A1. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

Basic Issue Items (BII). These essential items are required to place the PLST M1076 A1 in operation, operate it, and to do emergency repairs. Although shipped separately packaged, BII must be with the PLST M1076 A1 during operation and when it is transferred between property accounts. Listing these items is your authority to request/requisition them for replacement based on authorization of the end item by the TOE/MTOE. Illustrations are furnished to help you find and identify the items.

Explanation of Columns in the COEI and BII List

Column (1) Item Number. Gives you the reference number of the item listed.

Column (2) National Stock Number (NSN) and Illustration. Identifies the stock number of the item to be used for requisitioning purposes and provides an illustration of the item.

Column (3) Description, Part Number/(CAGEC). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The stowage location of COEI and BII is also included in this column. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (4) Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment. These codes are identified below:

INTRODUCTION - Continued

Code	Used On
TL1	Palletized Load System Trailer A1 M1076

Column (5) U/I. Unit of Issue (U/I) indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (2).

Column (6) Qty Rqr. Indicates the quantity required.

COMPONENTS OF END ITEM

Table 1. Components of End Item.

(1) ITEM NUMBE R	(2) NATIONAL STOCK NUMBER (NSN) AND ILLUSTRATION	(3) DESCRIPTION, PART NUMBER/(CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
1		NOT APPLICABLE FOR THIS MODEL			

Table 2. BASIC ISSUE ITEMS

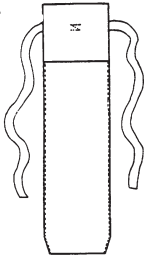
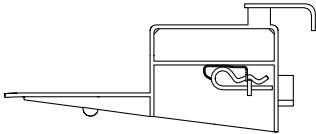
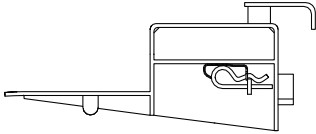
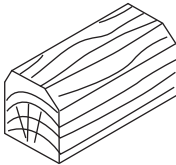
(1) ITEM NUMBER	(2) NATIONAL STOCK NUMBER (NSN) AND ILLUSTRATION	(3) DESCRIPTION, PART NUMBER/(CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
1	8105-01-394-5929 	BAG, TOOL (Located in trailer passenger side stowage box) 1991290 (45152)		EA	1
2	2590-01-539-2857 	BRACKET, VEHICULAR, LH (Located in trailer passenger side stowage box) 12468623-2 (0BJH4)		EA	1
3	2590-01-533-8676 	BRACKET, VEHICULAR, RH (Located in trailer passenger side stowage box) 12468623-1 (0BJH4)		EA	1
4	2540-01-165-6136 	CHOCKS, WHEEL (Located in trailer passenger side stowage box) CS-2540-0067 (16236)		EA	2

Table 2. BASIC ISSUE ITEMS - Continued

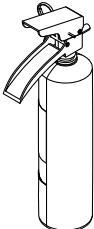
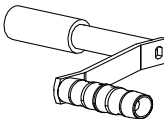


(1) ITEM NUMBER	(2) NATIONAL STOCK NUMBER (NSN) AND ILLUSTRATION	(3) DESCRIPTION, PART NUMBER/(CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
5	4210-01-133-9053 	EXTINGUISHER, FIRE (Located in trailer passenger side stowage box) 429101 (03670)		EA	1
6	5340-01-608-4501 	HANDLE, WINCH (Located in trailer passenger side stowage box) 70368 (72031)		EA	2
7	4720-01-368-7981 	HOSE ASSY (Located in trailer passenger side stowage box) 1876750 U (45152)		EA	1
8	3990-00-529-4427 	LOAD BINDER, 5/8 RATCHET (Located in trailer passenger side stowage box) 1048440 (75535)		EA	2

Table 2. BASIC ISSUE ITEMS - Continued


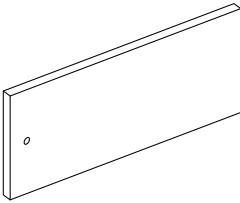
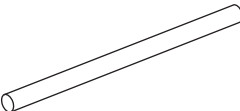
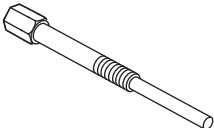
(1) ITEM NUMBER	(2) NATIONAL STOCK NUMBER (NSN) AND ILLUSTRATION	(3) DESCRIPTION, PART NUMBER/(CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
9	5340-00-158-3807 	PADLOCK W/CHAIN (Located in trailer passenger side stowage box) AA59487-2SC (58536)		EA	1
10	5220-01-360-5582 	PLATE, SURFACE (Located in trailer passenger side stowage box) 1874160 (45152)		EA	2
11	5315-01-371-1763 	ROD, UNLOCKING (Located in trailer passenger side stowage box) 1873050 (45152)		EA	1
12	5120-01-375-0215 	ROD, UNLOCKING, HEADLESS (Located in trailer passenger side stowage box) 1873040 (45152)		EA	2

Table 2. BASIC ISSUE ITEMS - Continued

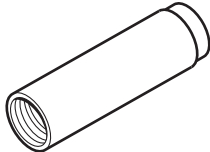
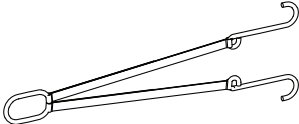
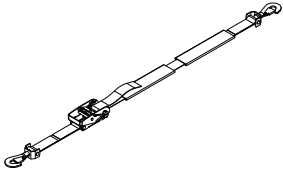
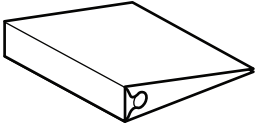
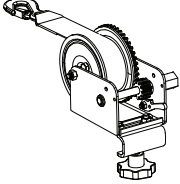
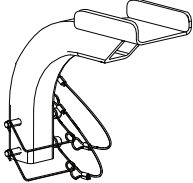
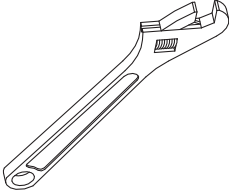
(1) ITEM NUMBER	(2) NATIONAL STOCK NUMBER (NSN) AND ILLUSTRATION	(3) DESCRIPTION, PART NUMBER/(CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
13	9330-01-371-0322 	SHEATH, RUBBER (Located in trailer passenger side stowage box) 12599-072 (0V4Z1)		EA	2
14	3940-01-609-2272 	SLING, CART LOADING (Located in trailer passenger side stowage box) 3813649 (75770)		EA	1
15	3990-01-204-3009 	TIE DOWN, CARGO (Located in trailer passenger side stowage box) MIL-PRF-71224-1 (0KHZ6)		EA	1
16		TRAILER MANUAL (Located in trailer passenger side stowage box) TM 9-2330-342-10 (45152)		EA	1

Table 2. BASIC ISSUE ITEMS - Continued

(1) ITEM NUMBER	(2) NATIONAL STOCK NUMBER (NSN) AND ILLUSTRATION	(3) DESCRIPTION, PART NUMBER/(CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
17	3950-01-608-4442 	WINCH ASSY (Located in trailer passenger side stowage box) 3900302 (45152)		EA	1
18	3950-01-608-4444 	WINCH MOUNT ASSY (Located in trailer passenger side stowage box) 3901003 (45152)		EA	1
19	5120-00-423-6728 	WRENCH, ADJUSTABLE (Located in trailer passenger side stowage box) 5385A16 (39428)		EA	1

END OF WORK PACKAGE

OPERATOR MAINTENANCE
ADDITIONAL AUTHORIZATION LIST (AAL)

INTRODUCTION

SCOPE

This work package lists additional items you are authorized for the support of the PLST M1076 A1.

GENERAL

This list identifies items that do not have to accompany the PLST M1076 A1 and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

EXPLANATION OF COLUMNS IN THE AAL

- Column (1) National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.
- Column (2) Description, Part Number/(CAGEC). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).
- Column (3) Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment. These codes are identified below:

<u>Code</u>	<u>Used on</u>
TL1	Palletized Load System Trailer M1076 A1

- Column (4) U/I. Unit of Issue (U/I) indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (1).
- Column (5) Qty Recm. Indicates the quantity recommended.

Table 1. Additional Authorization List.

(1) NATIONAL STOCK NUMBER (NSN)	(2) DESCRIPTION, PART NUMBER/(CAGEC)	(3) USABLE ON CODE	(4) U/I	(5) QTY RECM
4720-01-254-01 89	AIR HOSE, INTER-VEHICLE MS39325-9-140-B (96906)		EA	2
6665-00-859-22 15	ALARM UNIT, CHEMICAL AGENT AUTOMATIC ALARM D5-15-4826 (81361)		EA	1
2590-00-148-79 61	CABLE ASSY, NATO (w/adapters) 11682379-1 (19207)		EA	1
6150-01-353-32 01	CABLE, TRAILER, LIGHT 7742-168 (06721)		EA	1
3940-01-270-33 89	CHAIN, SLING (16 ft) 1482010 (45152)		EA	2
2540-01-152-78 13	CHAINS, TIRE 16.00 x 20/2624 (80535)		SE	1
4230-01-133-41 24	DECONTAMINATING APPARATUS E5-51-527 (81361)		EA	1
6665-00-859-22 01	DETECTOR UNIT, CHEMICAL AGENT AUTOMATIC ALARM D5-15-4400 (81361)		EA	1
8415-00-634-46 58	GLOVES, LEATHER 37G2940 (90142)		PR	2
4240-00-052-37 76	GOGGLES, INDUSTRIAL ANSI Z87.1 (80204)		EA	1
6220-01-456-27 46	KIT, CBT AUX. LIGHT BAR J-43173 (33287)		EA	1
2540-01-408-15 38	KIT, TOW BAR ADAPTER 2075150 U (45142)		EA	1
6130-01-449-75 90	KIT, INSTALLATION, BATTERY SOLAR PANEL CHARGING SYSTEM, 12V VC-4 (09GZ5)		EA	1

Table 1. Additional Authorization List - Continued.

(1) NATIONAL STOCK NUMBER (NSN)	(2) DESCRIPTION, PART NUMBER/(CAGEC)	(3) USABLE ON CODE	(4) U/I	(5) QTY RECM
6130-01-449-75 94	KIT, INSTALLATION, BATTERY SOLAR PANEL CHARGING SYSTEM, 24V VC-5 (09GZ5)		EA	1
1005-00-704-66 50	MOUNT, MACHINE GUN 7046650 (19204)		EA	1
4910-01-267-29 12	TOWBAR (10 ton) 12322663 (19207)		EA	1

END OF WORK PACKAGE

OPERATOR MAINTENANCE EXPENDABLE/DURABLE ITEMS LIST

INTRODUCTION

Scope

This work package lists expendable and durable items that you will need to operate and maintain the PLST M1076 A1. This list is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970 (WP 0057), Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items), CTA 50-909 (WP 0057), Field and Garrison Furnishings and Equipment or CTA 8-100 (WP 0057), Army Medical Department Expendable/Durable Items.

Explanation of Columns in the Expendable/Durable Items List

Column (1) Item No. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., Use brake fluid (WP 0098, item 5)).

Column (2) Level. This column identifies the lowest level of maintenance that requires the listed item (C = Crew).

Column (3) National Stock Number (NSN). This is the NSN assigned to the item which you can use to requisition it.

Column (4) Item Name, Description, Part Number/(CAGEC). This column provides the other information you need to identify the item. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (5) U/I. Unit of Issue (U/I) code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

Table 1. Expendable/Durable Items List.

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER (NSN)	(4) ITEM NAME, DESCRIPTION, PART NUMBER/(CAGEC)	(5) U/I
Cleaning Compound, Solvent				
1	C	6850-01-474-231 9	Cleaning Compound, Solvent, 1 gallon can, MIL-PRF-680 Type II (81349)	GL
2	C	6850-01-474-231 7	Cleaning Compound, Solvent, 5 gallon can, MIL-PRF-680 Type II (81349)	CO
3	C	6850-01-474-231 6	Cleaning Compound, Solvent, 55 gallon drum, MIL-PRF-680 Type II (81349)	DR
Grease, Automotive and Artillery (GAA) (MIL-G-10924)				
4	C	9150-01-197-768 8	Grease, Automotive and Artillery (GAA) (MIL-G-10924), 2 1/4-ounce tube, M-10924-A (81349)	TU
5	C	9150-01-197-769 3	Grease, Automotive and Artillery (GAA) (MIL-G-10924), 14 oz cartridge, M-10924-B (81349)	CA
6	C	9150-01-197-769 0	Grease, Automotive and Artillery (GAA) (MIL-G-10924), 1 3/4-pound can, M-10924-C (81349)	CN
7	C	9150-01-197-769 2	Grease, Automotive and Artillery (GAA) (MIL-G-10924), 35 lb can, M-10924-E (81349)	CN
8	C	9150-01-197-769 1	Grease, Automotive and Artillery (GAA) (MIL-G-10924), 120 lb drum, M-10924-F (81349)	DR

END OF WORK PACKAGE

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is OAASA.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE <i>Date you filled but this form</i>
TO (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000						FROM (Activity and location) (Include ZIP Code) <i>Your mailing address</i>	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER <i>TM 9-2330-342-10</i>						DATE <i>28 Sep 2012</i>	TITLE <i>Palletized Load System Trailer (PLST) M1076 A1, Operator's Manual</i>
ITEM	PAGE	PARA- GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given)	
	<i>0007-3</i>					<i>Figure 2, Item 9 should show a lockwasher. Currently shows a flat washer.</i>	
	<i>0018-2</i>					<i>Cleaning and inspection, Step 6, reference to governor support pin (14) is wrong reference. Reference should be change to (12).</i>	
<div>SAMPLE</div>							
TYPED NAME, GRADE OR TITLE <i>Your Name</i>						TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION <i>Your Phone Number</i>	SIGNATURE <i>Your Signature</i>

TO <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000				FROM <i>(Activity and location) (Include ZIP Code)</i> Your Address				DATE <i>Date you filled out this form</i>	
PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS									
PUBLICATION NUMBER TM 9-2330-342-23&P				DATE 28 Sep 2012		TITLE Palletized Load System Trailer (PLST) M1076 A1, Field Manual			
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION	
<div>SAMPLE</div>									
PART III – REMARKS <i>(Any general remarks, or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)</i>									
TYPED NAME, GRADE OR TITLE Your Name				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION Your Phone Number			SIGNATURE Your Signature		

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
For use of this form, see AR 25-30; the proponent agency is OAASA.							
TO (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000						FROM (Activity and location) (Include ZIP Code)	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER <i>TM 9-2330-342-10</i>						DATE <i>28 Sep 2012</i>	TITLE <i>Palletized Load System Trailer (PLST) M1076 A1, Operator's Manual</i>
ITEM	PAGE	PARA- GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given)	
TYPED NAME, GRADE OR TITLE						TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE

TO <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000				FROM <i>(Activity and location) (Include ZIP Code)</i>				DATE	
PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS									
PUBLICATION NUMBER <i>TM 9-2330-342-23&P</i>				DATE <i>28 Sep 2012</i>		TITLE <i>Palletized Load System Trailer (PLST) M1076 A1, Field Manual</i>			
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION	
PART III – REMARKS <i>(Any general remarks, or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)</i>									
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION			SIGNATURE		

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
For use of this form, see AR 25-30; the proponent agency is OAASA.							
TO (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000						FROM (Activity and location) (Include ZIP Code)	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER <i>TM 9-2330-342-10</i>						DATE <i>28 Sep 2012</i>	TITLE <i>Palletized Load System Trailer (PLST) M1076 A1, Operator's Manual</i>
ITEM	PAGE	PARA- GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given)	
TYPED NAME, GRADE OR TITLE						TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE

TO <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000				FROM <i>(Activity and location) (Include ZIP Code)</i>				DATE	
PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS									
PUBLICATION NUMBER <i>TM 9-2330-342-23&P</i>				DATE <i>28 Sep 2012</i>		TITLE <i>Palletized Load System Trailer (PLST) M1076 A1, Field Manual</i>			
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION	
PART III – REMARKS <i>(Any general remarks, or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)</i>									
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION			SIGNATURE		

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
For use of this form, see AR 25-30; the proponent agency is OAASA.							
TO (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000						FROM (Activity and location) (Include ZIP Code)	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER <i>TM 9-2330-342-10</i>						DATE <i>28 Sep 2012</i>	TITLE <i>Palletized Load System Trailer (PLST) M1076 A1, Operator's Manual</i>
ITEM	PAGE	PARA- GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given)	
TYPED NAME, GRADE OR TITLE						TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE

TO <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000				FROM <i>(Activity and location) (Include ZIP Code)</i>				DATE	
PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS									
PUBLICATION NUMBER <i>TM 9-2330-342-23&P</i>				DATE <i>28 Sep 2012</i>		TITLE <i>Palletized Load System Trailer (PLST) M1076 A1, Field Manual</i>			
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION	
PART III – REMARKS <i>(Any general remarks, or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)</i>									
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION			SIGNATURE		

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
For use of this form, see AR 25-30; the proponent agency is OAASA.							
TO (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000						FROM (Activity and location) (Include ZIP Code)	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER <i>TM 9-2330-342-10</i>						DATE <i>28 Sep 2012</i>	TITLE <i>Palletized Load System Trailer (PLST) M1076 A1, Operator's Manual</i>
ITEM	PAGE	PARA- GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given)	
TYPED NAME, GRADE OR TITLE						TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE

TO <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000				FROM <i>(Activity and location) (Include ZIP Code)</i>				DATE	
PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS									
PUBLICATION NUMBER <i>TM 9-2330-342-23&P</i>					DATE <i>28 Sep 2012</i>		TITLE <i>Palletized Load System Trailer (PLST) M1076 A1, Field Manual</i>		
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION	
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TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION			SIGNATURE		

By Order of the Secretary of the Army:

RAYMOND T. ODIERNO
General, United States Army
Chief of Staff

Official:

A handwritten signature in black ink, reading "Joyce E. Morrow". The signature is fluid and cursive, with the first name "Joyce" and last name "Morrow" clearly legible.

JOYCE E. MORROW

*Administrative Assistant to the
Secretary of the Army*

1223404

Distribution:

To be distributed in accordance with the initial distribution number (IDN) 257936 requirements for TM 9-2330-342-10.

THE METRIC SYSTEM AND EQUIVALENTS

Linear Measure 1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches 1 Kilometer = 1000 Meters = 0.621 Miles Weights 1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces 1 Kilogram = 1000 Grams = 2.2 Pounds 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons Liquid Measure 1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces	Square Measure 1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches 1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet 1 Sq Kilometer = 1,000,000 Sq Meters = 0.0386 Sq Miles Cubic Measure 1 Cu Centimeter = 1,000 Cu Millimeters = 0.06 Cu Inches 1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet Temperature 9/5 C° +32 = F° 5/9 (°F - 32) = °C 212° Fahrenheit is equivalent to 100° Celsius 90° Fahrenheit is equivalent to 32.2° Celsius 32° Fahrenheit is equivalent to 0° Celsius
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APPROXIMATE CONVERSION FACTORS

To Change	To	Multiply By
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Sq Inches	Sq Centimeters	6.451
Sq Feet	Sq Meters	0.093
Sq Yards	Sq Meters	0.836
Sq Miles	Sq Kilometers	2.590
Acres	Sq Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Sq Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

To Change	To	Multiply By
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Sq Centimeters	Sq Inches	0.155
Sq Meters	Sq Feet	10.764
Sq Meters	Sq Yards	1.196
Sq Kilometers	Sq Miles	0.386
Sq Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds per Sq Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621

