Task: Perform Load/Unload Operations With Truck Palletized Load System (PLS) in Automatic Mode

Number: 551-721-1501

Effective Date: 2003-Mar-25

Enlisted MOS: 88M   Skill Level 1

STP: STP 55-88M14-SM-TG

Performance Steps

1. Position PLS tractor for loading operation.
   WARNING: Check for overhead power lines or other obstructions before attempting LHS operation. LHS reaches a height of 17 feet two inches (5.22m) with ISO container. Serious injury or death could result from contact with electrical power lines.
   a. Check ground conditions for firmness and extreme sideways inclination before picking up or off-loading a flatrack. Any ground instability beneath road wheels could cause serious injury or death to personnel.
   b. Prior to and during any load or unload cycle, all personnel should stay clear of LHS and flatrack or serious injury or death could result to personnel.
   CAUTION: Engine speed must be at idle before using hydraulic selector switch, or damage to equipment may result.

2. Load flatrack onto tractor.
   CAUTION: Do not use Reverse (R) to back up truck while hook arm is attached to flatrack or damage to LHS will occur. WARNING: When loading or unloading flatracks on uneven ground (side slope or downgrades up to 10 degrees), it may be necessary to apply truck service brakes to prevent truck roll away or severe injury or death could result. CAUTION: If LHS overload lamp illuminates but loading operation continues, operator is cautioned that LHS is nearing maximum capacity. In this situation operator should determine if payload is evenly distributed on flatrack or if flatrack load exceeds 16.5 tons (14,983 kg). If any of these conditions exist, operator must redistribute or reduce the payload or damage to equipment may occur.
   a. Load must be evenly distributed on the pallet. Uneven load distribution may cause LHS Overload indicator to give false signals and cause LHS to operate incorrectly. Damage to equipment may occur.
   b. If LHS overload lamp illuminates and normal operation has stopped, return load to original position and redistribute or reduce payload weight or equipment damage may occur.
   c. Ensure that parking brake is not applied before starting load sequence or damage to equipment may occur.
   WARNING: Ensure that flatrack runners contact LHS rear rollers correctly. Failure to contact flatrack runners correctly could result in serious injury to personnel and damage to equipment. Overload warning light may illuminate when lifting flatrack from unusual conditions. CAUTION: Reduce engine speed to idle before flatrack main rails contact rear rollers or damage to flatrack may result. Engine speed must be at idle before using hydraulic selector switch, or damage to equipment may result. Hydraulic selector switch must be in OFF position before driving or hydraulic system could overheat.

3. Off-load flatrack from tractor.
CAUTION: Engine idle speed must be at idle before using hydraulic selector switch, or damage to equipment may result. CAUTION: Ensure parking brake is not applies during unload sequence or damage to equipment may result. WARNING: When loading or unloading flatracks on uneven ground (side slope or down grades up to 10 degrees), it may be necessary to apply truck service brakes to prevent truck roll away or severe injury or death could result.

a. Check for overhead power lines or other obstructions before attempting LHS operation. LHS reaches a height of 17 feet, two inches (5.22 m) with ISO container. Serious injury or death could result from contact with electrical power lines.

b. Check ground conditions for firmness and extreme sideways inclination before picking-up or off-loading a flatrack. Any ground instability beneath road wheels could cause serious injury or death to personnel.

c. Prior to and during any load or unload cycle, all personnel should stay clear of LHS and flatrack or serious injury or death could result to personnel.

CAUTION: Check ground conditions where flatrack will be placed can support the flatrack weight or damage to flatrack or LHS may result.

d. Ensure rail transport locking pins are disengaged before unloading flatrack. Rail transport locking pins are used for rail transport only. Failure to comply may result in damage to equipment. Loading and unloading times are controlled by engine speed. Engine speed can be increased to approximately 1500 rpm to reduce loading and unloading times.

CAUTION: Once the truck's rear suspension has been relieved of a flatrack load, do not continue in UNLOAD position as possibility or jacking up rear end with hook arm may occur and damage to equipment may result. If flatrack is extremely light or empty, it may be necessary to place transmission range selector to Drive (D) to allow truck to move our from under flatrack. CAUTION: Never drive with NO TRANS light illuminated.

**Evaluation Preparation:** Setup: Place a PLS Truck with flatrack (loaded or unloaded) on level ground with room to maneuver the vehicle as needed for the operation. Include all vehicle BII, hearing protection, and provide guidance to the soldier.

Brief Soldier: You are required to load and then off-load the flatrack (loaded or unloaded) onto/from the PLS truck in the automatic mode. You are to follow all steps identified in the reference -10 series TM. All steps are to be performed without injury to personnel or damage to equipment. You are to start the operation with the flatrack on the ground.

**Performance Measures**

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GO   NO GO
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**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If any performance measure is failed, tell the soldier what was done wrong and how to do it correctly.

**References:**

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**Certifications Required:** None.

**Supporting Individual Tasks:** None.
Supported Drills: None.