

Task: Transfer Flatrack Onto/From Palletized Load System (PLS) Trailer Using the Load Handling System (LHS)

Number: 551-721-1503

Effective Date: 2003-Mar-25

**Enlisted MOS:
88M Skill Level 1**

**STP:
STP 55-88M14-SM-TG**

Performance Steps

1. Position truck and trailer for loading/unloading operation.

WARNING: Prior to and during load or unload cycle, all personnel should stay clear of LHS and flatrack or serious injury or death could result. Trailer wheels must be chocked during transfer operations or serious injury or death could result. **CAUTION:** Ensure that trailer drawbar is down against the ground during transfer operation or damage to equipment may result.

- a. Ensure air lines and cables are properly stowed to prevent damage to equipment (TM 9-2330-385-14).
- b. Both the trailer bumper points must be under the truck bumper stop flange and at least one of the bumper points must contact the bumper stop. The trailer bumper point not contacting the truck bumper stop cannot exceed 0.5 inches (12.7 mm) or flatrack will miss main rail guides and equipment damage may result.

WARNING: When operating PLS truck with PLS trailer, the heaviest loaded flatrack must always be placed on the truck, otherwise adverse handling and/or braking may result, causing injury or death to personnel.

2. Load flatrack onto PLS trailer (automatic mode).

CAUTION: Engine speed must be at idle before using hydraulic selector switch or damage to equipment may result. Note: Do not move truck forward more than three inches (76.2 mm) to prevent flatrack from pulling away from stops. **WARNING:** Never drive with NO TRANS light illumination. An illuminated light means LHS is not fully stowed. The load could break loose causing serious injury or death to personnel. **CAUTION:** Engine speed must be at idle before using hydraulic selector switch or damage to equipment may result. Note: Hook arm does not need to be fully stowed if more transfer operations are going to be made.

- a. Hydraulic selector switch must be in OFF position before driving or hydraulic system can overheat causing damage to equipment.
- b. Refer to TM 9-2320-364-10, paragraph 2-26f (11) through (32), pages 2-220 to 2-224.

3. Unload flatrack from trailer (automatic mode).

CAUTION: Load must be evenly distributed on flatrack pallet. Uneven load distribution may cause LHS overload indicator to give false signals and cause LHS to operate incorrectly. Damage to equipment may result.

- a. There must be sufficient pressure in trailer air system to retract locks or damage to flatrack can occur while attempting to load flatrack or trailer. If not, use truck to charge trailer air system using trailer air charging hose. If air system cannot retract flatrack, use manual flatrack lock retract procedures.
- b. Ensure that trailer drawbar is down against the ground during transfer operation or damage to

- equipment may result.
- c. Ensure air lines and cables are properly stowed to prevent damage to equipment (TM 9-2330-385-14).
 - d. Ensure both flatrack locks are fully retracted or damage to equipment may result.

4. Load flatrack onto trailer (manual mode).

WARNING: Trailer wheels must be chocked during transfer operations. CAUTION: Ensure that trailer drawbar is down against the ground during transfer operations or damage to equipment may result.

- a. Ensure air lines and cables are properly stowed to prevent damage to equipment.
- b. Both of the trailer bumper points must be under the truck bumper stop flange and at least one of the bumper points must contact the bumper stop. The trailer bumper point not contacting the truck bumper stop cannot exceed 0.5 inches (12.7 mm) or flatrack will miss main rail guides and equipment damage may result.
- c. Engine speed must be at idle before using hydraulic selector switch or damage to equipment may result.

5. Unload flatrack from PLS trailer (manual mode).

CAUTION: There must be sufficient pressure in trailer air system to retract locks or damage to flatrack can occur while attempting to load flatrack or trailer. If not, use truck to charge trailer air system using trailer air charging hose. If air system cannot retract flatrack, use manual flatrack lock retract procedures.

- a. Ensure that air lines and cables are properly stowed to prevent damage to equipment.
- b. Ensure that trailer drawbar is down against the ground during transfer operations or damage to equipment may result.
- c. Ensure both flatrack locks are fully retracted or damage.

WARNING: Check for overhead power lines or other obstructions before attempting LHS operation. If LHS reaches a height of CAUTION, there must be sufficient pressure in trailer air system to retract locks or damage to flatrack can occur while attempting to load flatrack or trailer. If not, use truck to charge trailer air system using trailer air charging hose. If air system cannot retract flatrack, use manual flatrack lock retract procedures.

- d. Ensure that air lines and cables are properly stowed to prevent damage to equipment.
- e. Ensure that trailer drawbar is down against the ground during transfer operations or damage to equipment may result.
- f. Ensure both flatrack locks are fully retracted or damage.

WARNING: 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.

- g. 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.
- h. 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.

Evaluation Preparation: Setup: Position a PLS truck tractor with flatrack and PLS trailer on level, hard ground for operation. Provide hearing protection and guidance on what the soldier is required to do.

Brief Soldier: You are required to load then unload the PLS flatrack to and from the PLS trailer both in the automatic and manual modes.

Performance Measures

GO

NO GO

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:

Number	Required	Title
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Certifications Required: None.

Supporting Individual Tasks: None.

Supported Drills: None.