
Planned Maintenance & Adjustment Procedures

PMA 445
ST 245

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CLARK

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Inspect the load wheels for damage and wear.

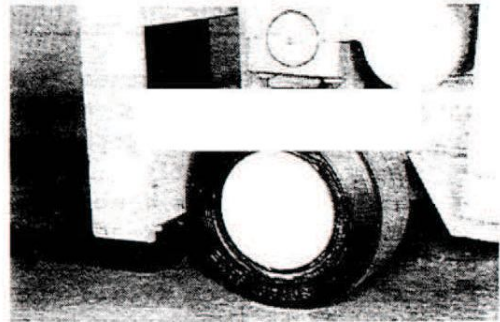


Fig. 22301

Inspect the drive wheel and tire for damage and wear.

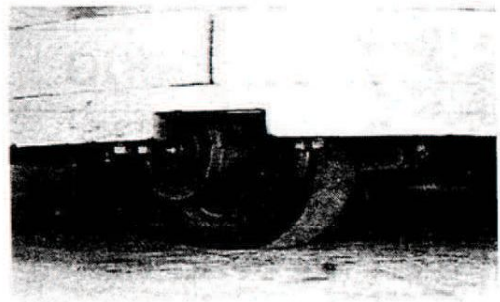


Fig. 22302

Make sure the lift chains have the same tension. Check the condition of the chains also.



Fig. 22303

On triple stage ("M" deck numbers) uprights and Hi-Lo ("H" deck numbers) uprights check the rear lift chains to make sure they have the same tension.



Fig. 22304

Make sure the carriage chain retainers and cotter pins are in position and not damaged.



Fig. 12632

Check the lift cylinder piston rods for damage. Also check the cylinder packings for leaks.

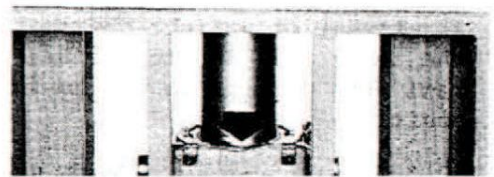


Fig. 12631

Inspect the lift cylinder chain anchors. Each anchor must be held by two nuts, with a cotter pin on the end.

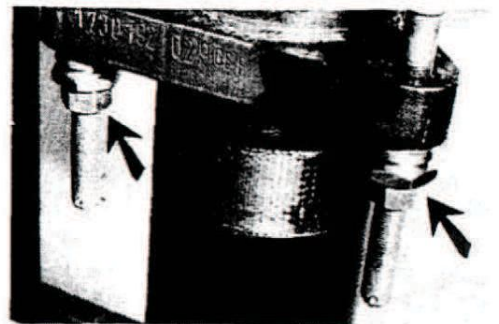


Fig. 19482

Check the forks for cracks, and wear. The height of the fork tips must not differ more than [6,5 mm] or .250 inch.

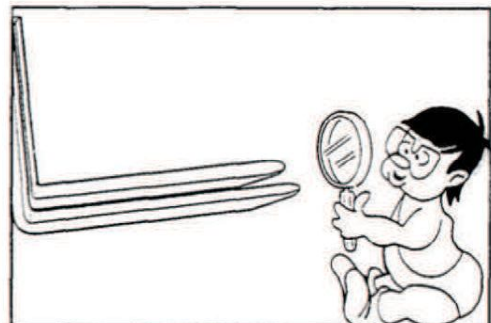


Fig. 17796

The locking tabs on the forks must move freely but lock the forks in position on the carriage. The forks must move in either direction without restriction.

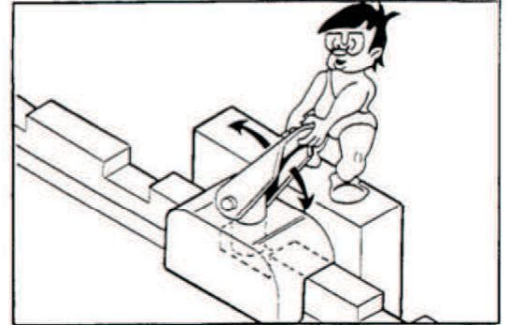


Fig. 17795

Inspect the load backrest. Make sure all bolts are tight.

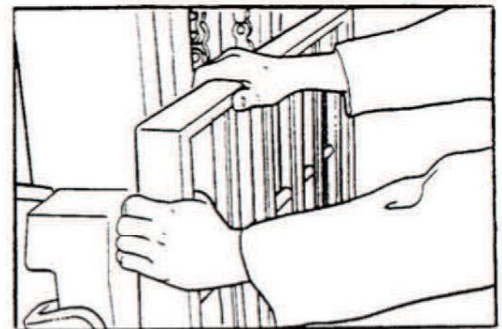


Fig. 17354

Make sure the fork stop pins, both top and bottom, are in position on the carriage.

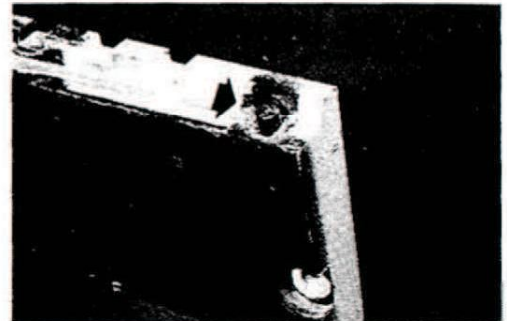


Fig. 19507

Check the anchors on the carriage for cracks and damage. Make sure both retaining nuts and cotter pin are in position.



Fig. 22305

Check the tilt cylinder piston rod for scratches or damage. Also check the packing glands for leaks, and the cylinder mounts for wear and damage.

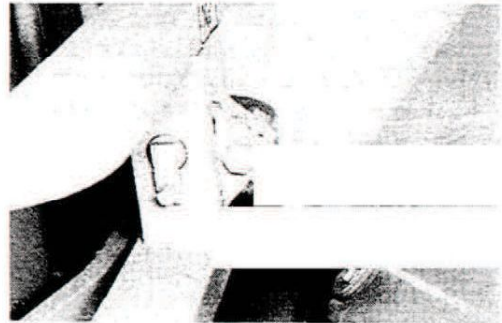


Fig. 22306

OPERATIONAL TESTS:

Connect the battery.

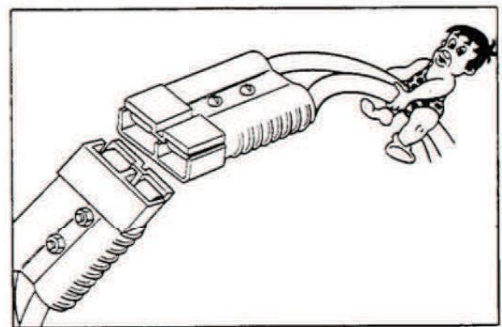


Fig. 17590

Make sure the directional control operates freely.

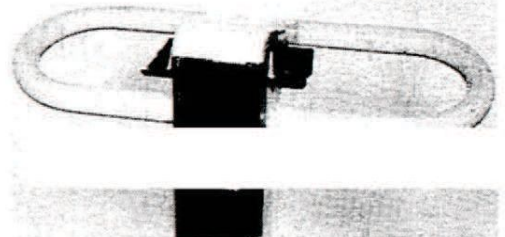


Fig. 22307

(OPTIONAL EQUIPMENT)

Turn the key switch to the "on" position and check the battery discharge indicator. The needle must be in the green area. If not, make a note on the PM check sheet.



Fig. 12989

(OPTIONAL EQUIPMENT)

With the key switch in the "on" position, check to make sure the hour meter is operating.



Fig. A1345

Turn the key switch to the "on" position and make sure the horn operates.



Fig. 22308

Move the steer handle from full left to full right. It must move smoothly. If you feel restriction to movement, this is an indication of bad thrust rollers and bearings. Make a note of this on the PM check sheet.



Fig. 22309

Drive the truck in forward direction, in creep speed. Check the brake operation. If the brake operation is acceptable, then drive the truck at high speed and listen for noises from the drive unit that do not seem normal.



Fig. 22310

Stop the truck. Drive the truck in reverse at high speed and again check for noise from the drive unit.

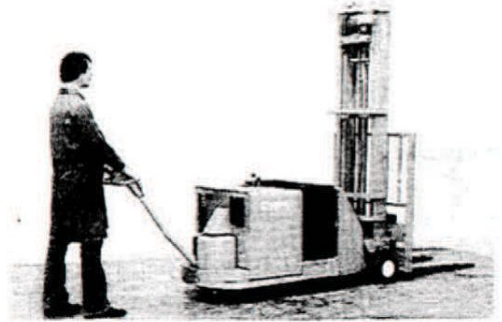


Fig. 22311

Check plugging operation:
Drive the truck in forward direction, at slow speed. Put the directional control in reverse. The truck must slow to a smooth stop and reverse its direction. Also, do the test at high speed. Repeat the procedure to check plugging in reverse direction.



Fig. 22310

Remove the battery from the truck.

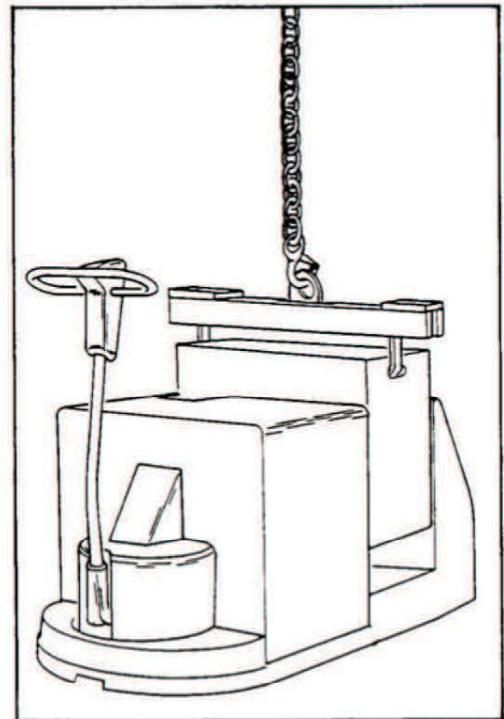


Fig. 23843

Put the battery on a pallet near the truck.
It is necessary to have the battery near
the truck to do the electrical tests.

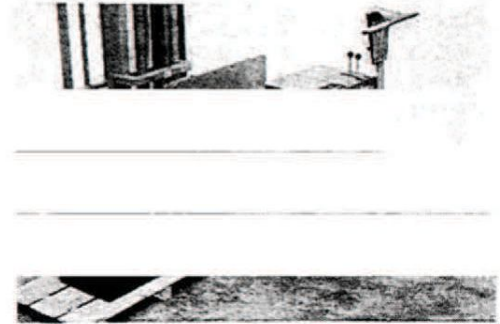


Fig. 23256

Remove the sheet metal from the truck.

NOTE

The plug (at arrow) must be removed
to get access to the nut at that side
of the sheet metal. Use a long ex-
tension.

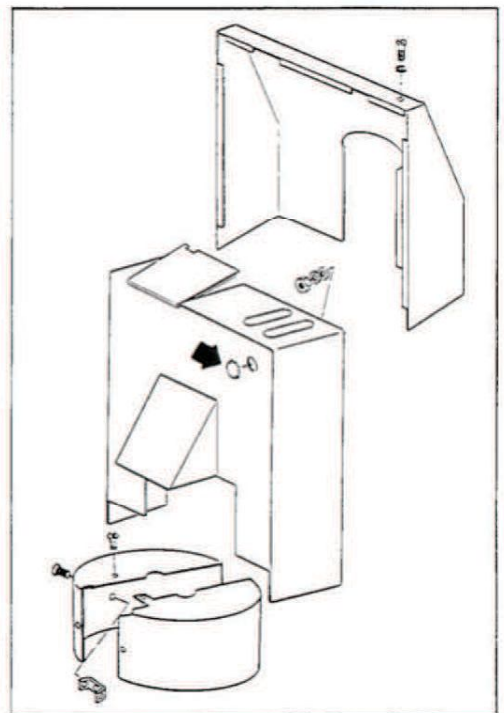


Fig. 23837

Check the brake components to make sure the
switch, bracket, and brake linkage are not
damaged.



Fig. 22312

Do the following steps to check the operation of the brake switch.

*Make sure the key switch is in the "off" position.

1. Rotate the brake drum by hand.
2. Slowly raise the steer control handle to the full up position.
3. The brake switch must actuate just before the brake shoes make contact with the brake drum.

Repeat steps 1-3 and check for correct operation with the handle in the full down position.

Put the steer control handle in the full up and full down position and check to make sure the:

1. brake applies in each position.
2. brake switch releases in each position.

(OPTIONAL EQUIPMENT)

Do a Battery Load Test:

1. Connect the battery.

2. Turn the key switch to the "on" position.



Fig. 22313

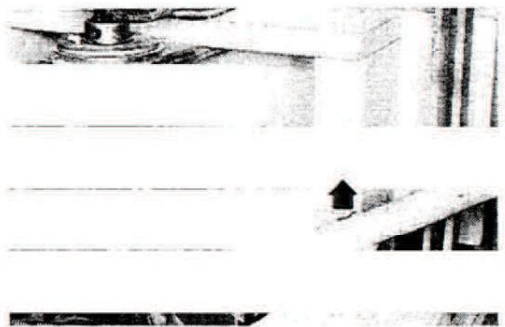


Fig. 22411

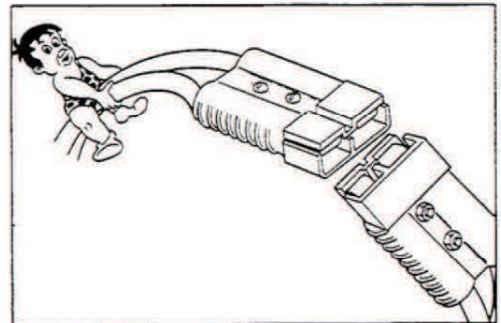


Fig. 17590



Fig. 22308