

Service Manual

New Generation AC Reach Truck

Developed and Collected By:

Done Information.

Date:

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Revision Level: 1

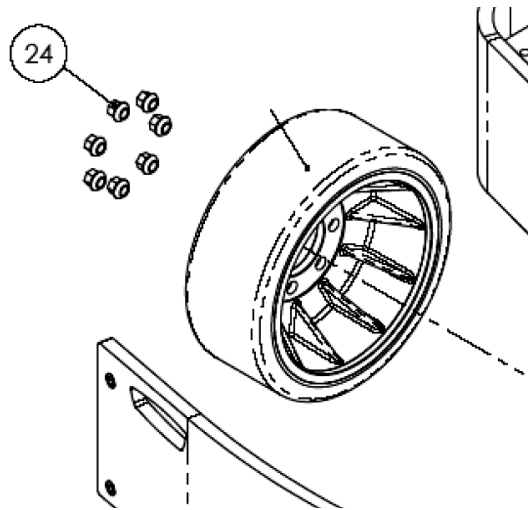


Figure: 3.4 Drive wheel nuts

The load wheels are located at the ends of the support legs. The main purpose of the load wheels is to support the weight of the mast and load. Depending on the truck model, there are either narrow or wide load wheels on each leg side.

Below is a figure portraying the construction of load wheels without the load wheel brakes:

LCD Heater ControlRange/value: **ON/OFF**

Display heater control enabled or disabled.

Sound EffectsRange/value: **ON/OFF**

Display sound effect enabled or disabled.

PreHeight SetupRange/value: **ON/OFF**

Pre-height selector setup enabled or disabled.

When disabled, programming the pre-height selector is not possible.

Performance SetupRange/value: **ON/OFF**

Performance setup enabled or disabled.

When disabled, adjusting the max. traction speed in the operator mode is not possible.

Battery Cell CheckRange/value: **ON/OFF**

Battery cell check enabled or disabled.

Height Multiplier**Default 3.75, do not change!**

Height multiplier converts mast encoder pulses to millimetres.

4.15.3 Truck Parameters**BDI Curve****0...9**

Battery discharge curve selection



Figure: 6.5 Spring positions

Use three temporary screws as table supports. Turn only two turns each. Glue the three air gap springs to their positions on the brake ring with Loctite 270.



Figure: 6.6 Wheel position over brake ring

Lower the wheel over the assembly slowly and parallel to the table.

The lowering function operates as follows:

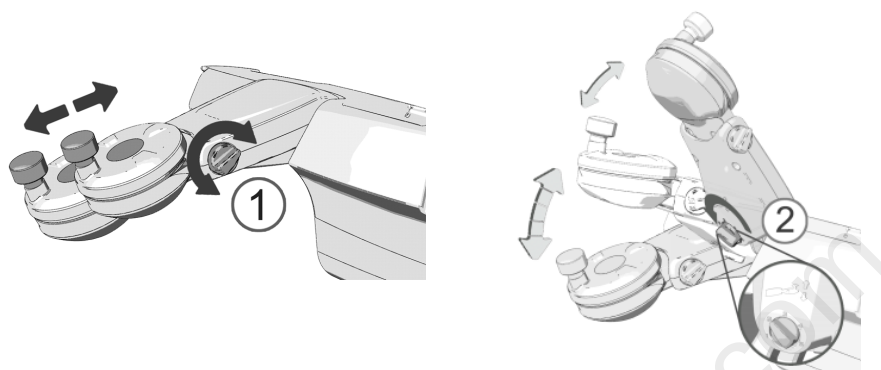
1. The operator requests lowering by moving the fingertip control towards the lowering position.
2. The voltage is supplied to the M1 valve coil by pulsing. As the conduction time of the voltage is prolonged, the valve coil voltage in the RIO1 board rises. At the same time, the pressure also rises in the lifting/lowering spool, and makes the spool move into lowering position.
3. Hydraulic fluid pressure is reduced on the left side of the proportional lowering valve, which causes the bottom envelope to return to the upper or open position.

NOTE There is still enough pressure available for the M1 valve to activate the lifting/lowering spool.

4. The hydraulic fluid returns to the tank at the requested rate, which is indicated by the position of the fingertip control.

activate/deactivate foot-operated driving direction change via the truck display.

2.3.6 Steering wheel

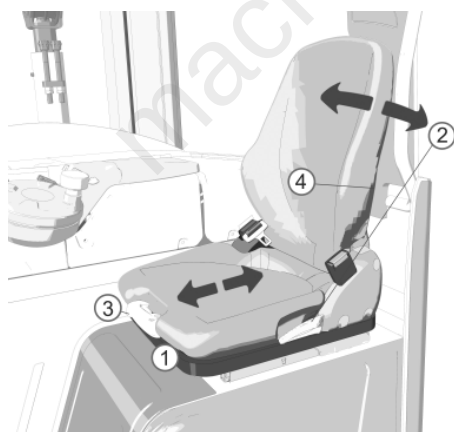


Steering wheel. The truck is equipped with an electronic steering system; refer to the User's manual for additional information (Chapter 5, "Electronic Steering System").

Length adjustment (1). Turn the adjustment knob anticlockwise to release the locking. Release the adjustment knob or turn it clockwise to lock the length adjustment. The adjustment is five-step.

Height adjustment (2). Raise the steering wheel higher by turning the adjustment knob to the left. Lower it by turning the knob to the right.

2.3.7 Seat



Seat MSG20 (mechanical suspension). You may adjust

- Seat suspension according to your weight (1).

Full Version Available

Caterpillar NR25NH Reach Truck Service and Schematic Manual (WHSM0013)

Caterpillar NR25NH Reach Truck service manual, covers mast, hydraulics, drive unit, wiring, and diagnostics in PDF. Instant PDF download.

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