

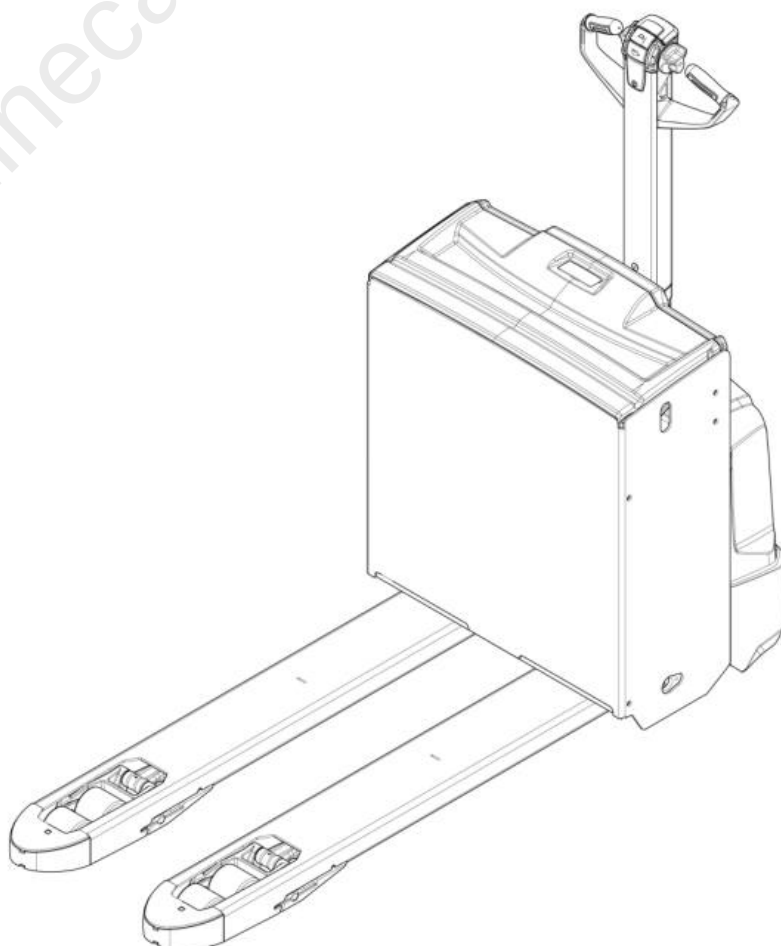


SERVICE MANUAL

PBP

PBP16N2/18N2/20N2/20N2E

618022



5.14 Ergo lift

5.14.1 Disassembly of the ergo lifting carriage

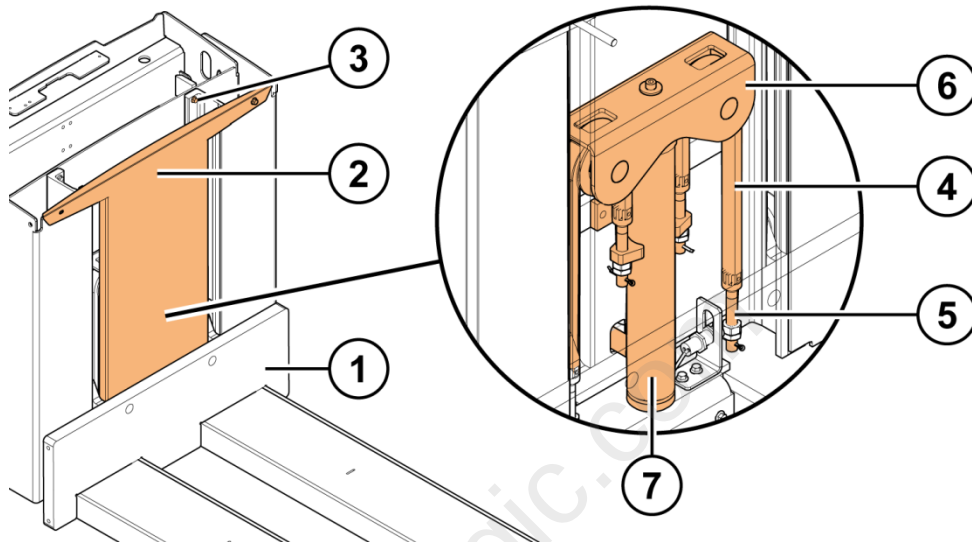


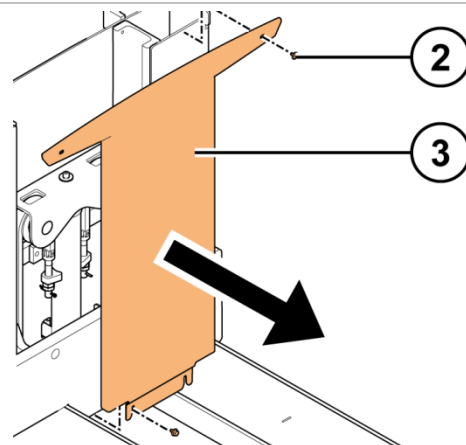
Figure 35. Disassembly of the ergo lifting carriage overview

- | | |
|--------------------------|-----------------|
| 1. Ergo lifting carriage | 5. Chain anchor |
| 2. Cover plate | 6. Chain yoke |
| 3. Limiter screw | 7. Cylinder |
| 4. Chain | |

1. Open the battery cover. For instructions, see section 5.4.3.

2. Remove the screws attaching the cover plate of the ergo lifting carriage to the truck.

3. Remove the cover plate.



9.3 Insulation resistance test

9.3.1 Test voltage

The insulation resistance of the truck and the traction battery is checked separately. The test voltage is greater than the nominal voltage but no more than 100 V or three times the nominal voltage:

NOMINAL VOLTAGE	TEST VOLTAGE
Up to 24 V	50 V
Over 36 V	100 V

9.3.2 Checking the insulation tester

Connect the test probe to the frame of the truck (for example, to a non-painted bolt or bracket) and the other test probe to another bolt or bracket. The tester should show a zero value.

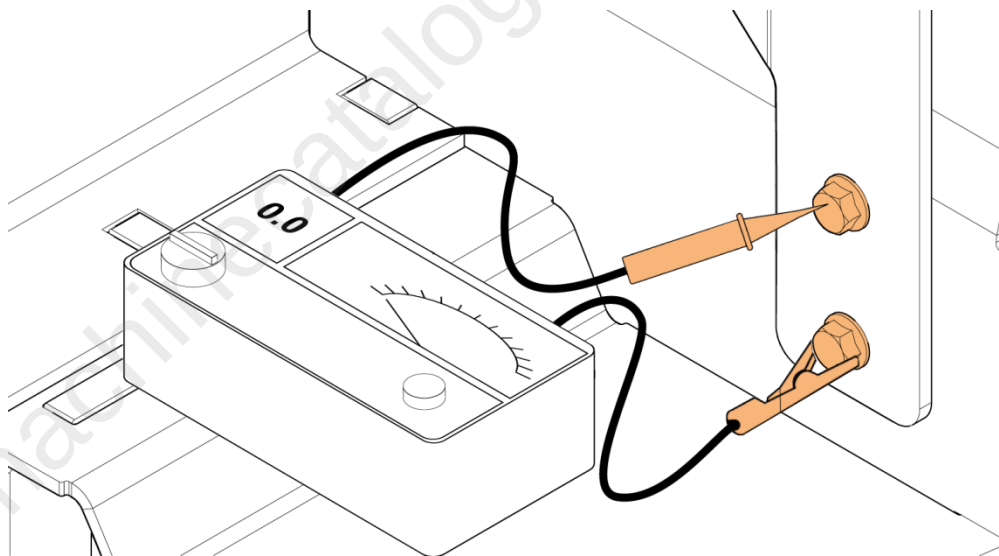


Figure 78. Checking the insulation tester

9.3.3 Measuring the insulation resistance

The test is performed with the battery disconnected from the truck. All the electrical components must be in place.

1. Release the emergency stop and turn the key switch to the ON position.
2. Connect the test probe to the frame of the truck (for example, to a non-painted bolt or bracket) and the other test probe to the plus terminal of the battery connector.
3. Read the resistance value.
4. Measure and read the minus terminal of the battery connector in the same way.

14.3 Maintenance check list

Legend: C = Check, R = Repair, Clean or Change, G = Grease

	BEFORE DAILY USE (USER)	MONTHLY (OWNER)	600 h OR ONCE A YEAR (SERVICE)	1,200 h OR EVERY SECOND YEAR (SERVICE)
Drive unit				
Transmission leakage check	C	C	C	C
Steering bearing			C	C
Fastening of the gearbox			C	C
Hydraulics				
Leakage check		C	C	C
Cleaning the oil filter				R
Hydraulic oil change				R
Oil level		C	C	C
Hose and cylinder		C	C	C
Operation of the hydraulics	C	C	C	C
Pressure relief valves			C	C
Linkage				
Bearings			C	C
Linkage			C	C
Wheels				
Traction wheel	C	C	C	C
Traction wheel has to be replaced when its diameter reaches 218 mm			C	C
Load wheels	C	C	C	C
Castor wheel suspension			C	C
Battery				
Battery water level	C	C	C	C
Battery cable and connector	C	C	C	C
Battery automatic watering system		C	C	C

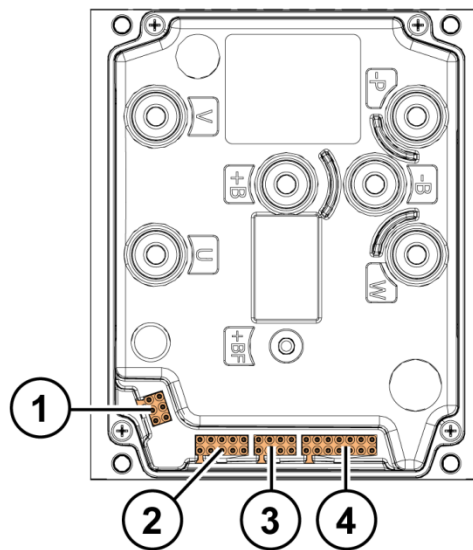


Figure 58. Traction controller connectors

- | | |
|---------------------------|---------------------------|
| 1. CND external connector | 3. CNB external connector |
| 2. CNC external connector | 4. CNA external connector |

The traction controller uses four connectors:

- CNA 14 poles connector, spare part: RL450937
- CNB 8 poles connector, spare part: RL450935
- CNC 10 poles connector, spare part: RL450936
- CND 6 poles connector, spare part: RL450661

Contact 0.2 – 0.8 mm² for CNA, CNB, CNC and CND connectors, Spare part: RL450666

8.2.3.1 CNA external connector

CONNECTION	DESCRIPTION
A2 EV3 (XA1 A/2) (Ergo valve Y2 option)	Output of the protected ON/OFF electrovalve driver; 1.5 A maximum continuous current (driving to -Batt). Built-in freewheeling diode to B2. This output is activated when the LIFT function (input A5) is requested.

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Mitsubishi PBP20N2E Pallet Truck Service Manual (618022)

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