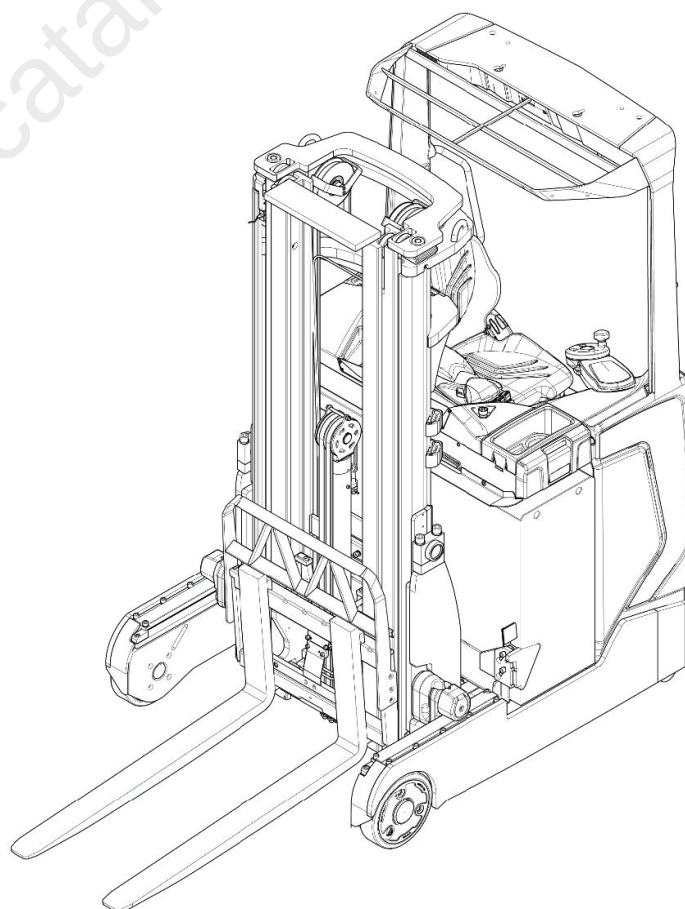


SERVICE MANUAL

**NR14N2S, NR14N2HS
NR16N2, NR16N2H, NR16N2S
NR16N2HS, NR16N2C, NR16N2HC
NR20N2H, NR20N2X
NR25N2X**



7.4 Charge the battery

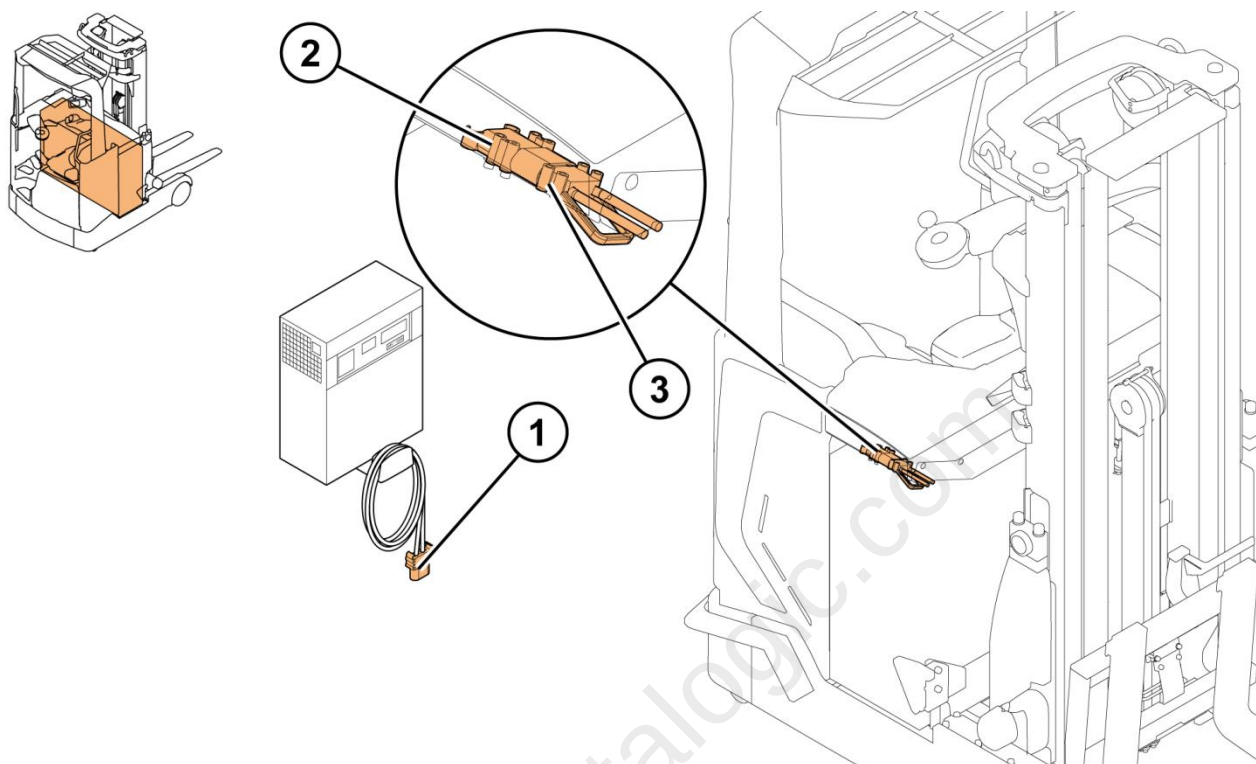


Figure 114. Connectors overview

- 1. Charger connector
- 2. Truck connector
- 3. Battery connector

CAUTION



Make sure that the charger is the appropriate model (correct battery type and voltage) and that the battery has sufficient ventilation.



NOTE: Make sure that you guide the battery connector cables so that they do not get stuck between the battery and the instrument panel! See Section 7.7.1.

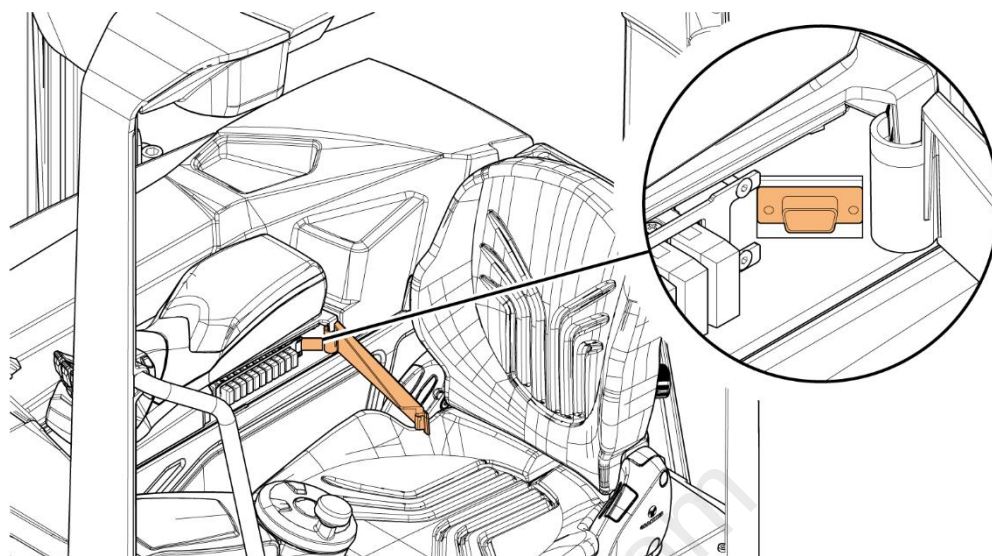
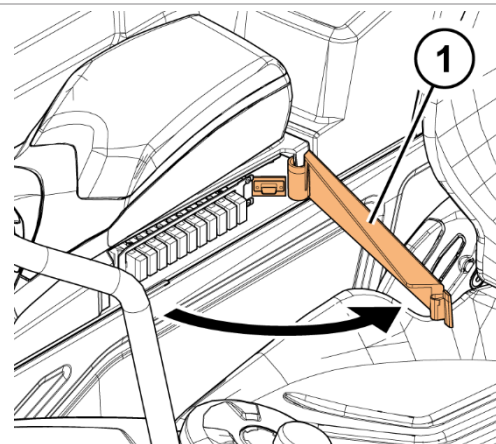


Figure 161. Location of the service socket

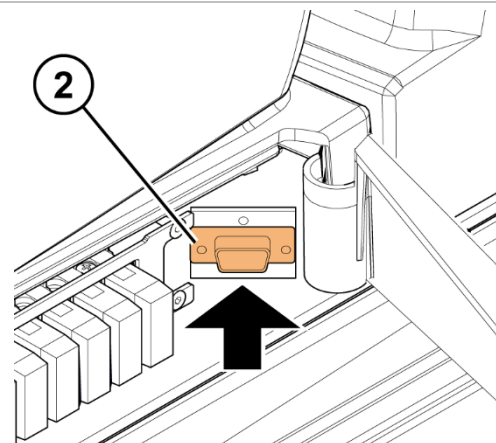
11.1.1 Connect TruckTool to the service socket

The service socket is behind the fuse cover. You must open the cover before you can connect TruckTool to it.

1. Open the fuse cover.



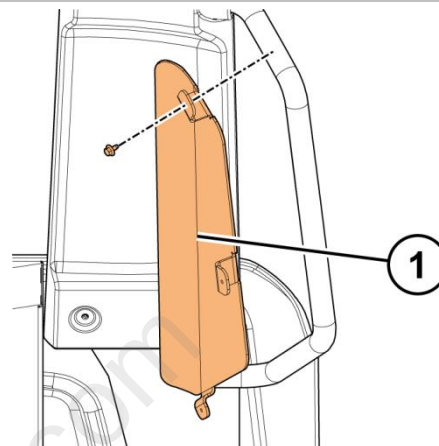
2. Connect TruckTool to the service socket.



The plate protects the operator from impacts in narrow and tight areas.

15.16.1 Install the left shoulder protection plate

1. Install the left shoulder protection plate to the left side of the operator compartment with screws.



15.17 Fire extinguisher

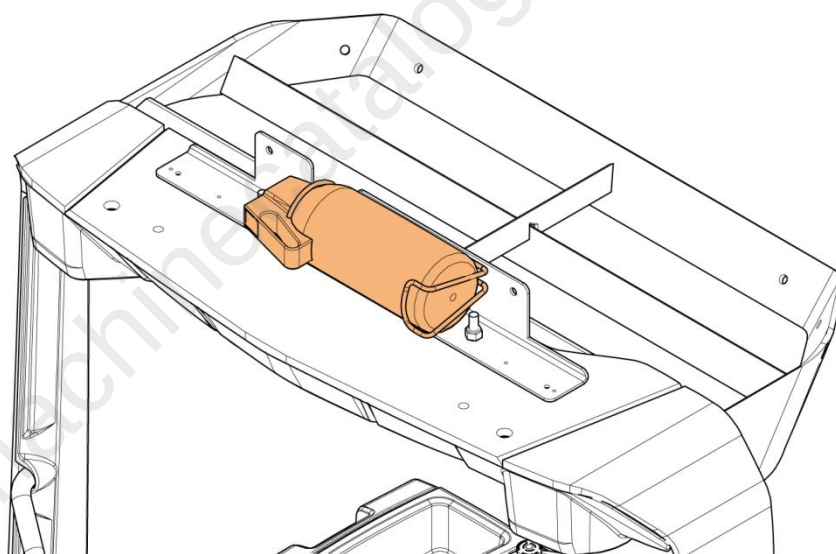


Figure 185. Fire extinguisher overview

In case of a fire in the truck, the fire extinguisher can be used as a preliminary means of putting out the fire.



NOTE: With this option, the height of the overhead guard increases by 100 mm.

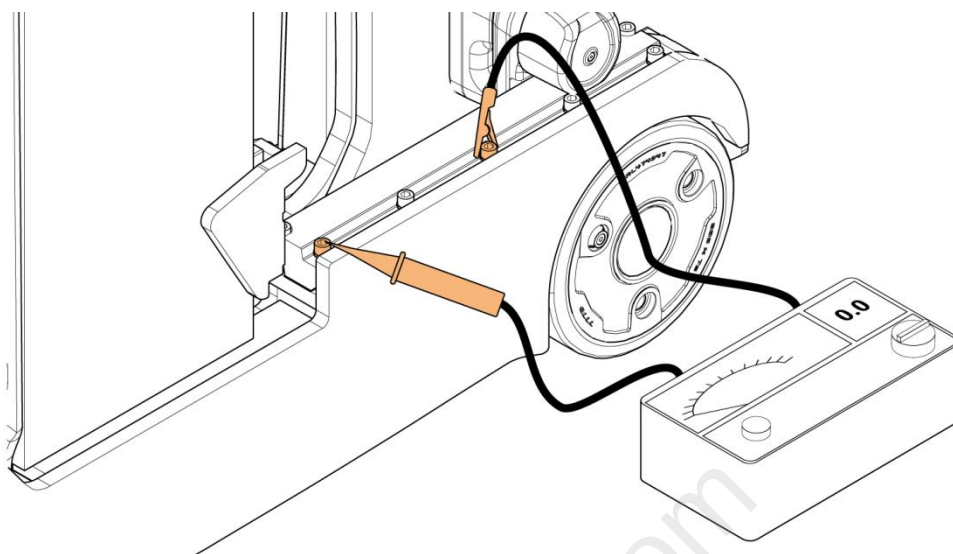


Figure 150. Insulation tester check

9.2.3 Measure 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 positive terminal of the battery connector.
3. Read the resistance value.
4. Measure and read the negative terminal of the battery connector in the same way.

9.2.3.1 Insulation resistance of the truck

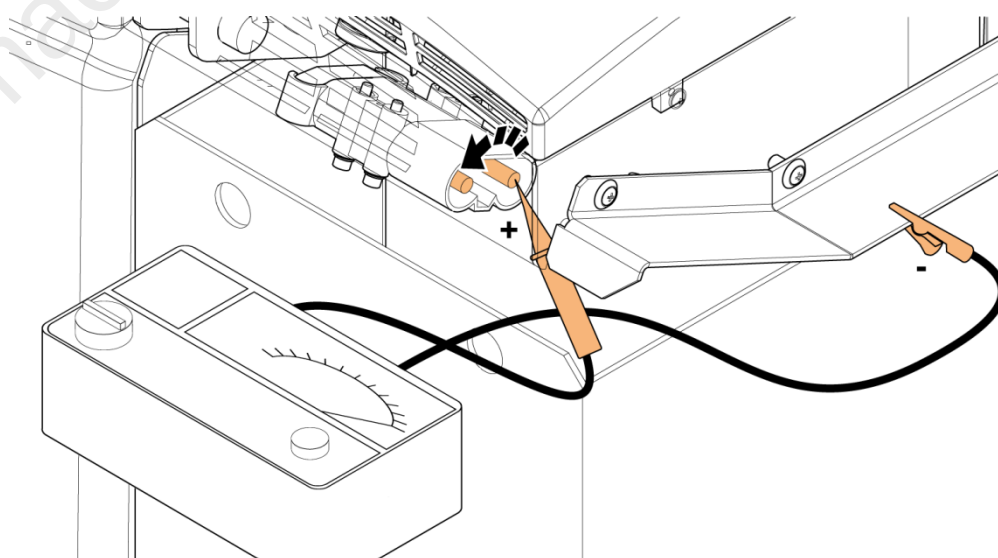


Figure 151. Measure the insulation resistance of the truck

CODE	TRUCKTOOL DESCRIPTION	DISPLAY DESCRIPTION	MESSAGE TYPE
8A235	CNA4 open	Internal alarm Call Service	Alarm
	The XA1A/4 input is open, and the emergency input parameter is set to Present (it must always be Absent). This alarm occurs when there are incorrect parameters in the controller. NOTE: During resistance measurements, make sure that the battery connector is disconnected, and that the voltage at the measured circuit is 0 V. • Read the alarm status from each controller. Try to make an overall picture of the root cause for the event code(s). • Make sure that the battery is not damaged. Measure the battery voltage when idle, and during full speed lift. The battery voltage must stay over 38 V. • Make sure that the fuses are not damaged. • Make sure that the truck frame is isolated from the battery positive and negative. Measure this from both sides of the drive contactor. Make sure that there is no short-circuit or low resistance between the positive and negative from the terminals of any controller (B+ and B- terminals). • Make sure that the wiring harness is not damaged. Make sure that the related connections do not have loose pins etc. • Set the truck back to the default settings. Run the truck model configuration wizard. • If the default settings are not a solution to the problem, flash the controller and run the wizards again. • If the flashing does not help, replace the current controller with another controller. NOTE: If the controller replacement does not help, install the original controller back to the truck. • If the controller replacement does not help, evaluate the possible root causes for the alarm again. Also, see if there are other alarm messages active in the system. • Clear the online error codes in TruckTool. Set the power of the truck OFF and ON again: other error codes can show up during start-up.		

Full Version Available

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