

SERVICE MANUAL

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

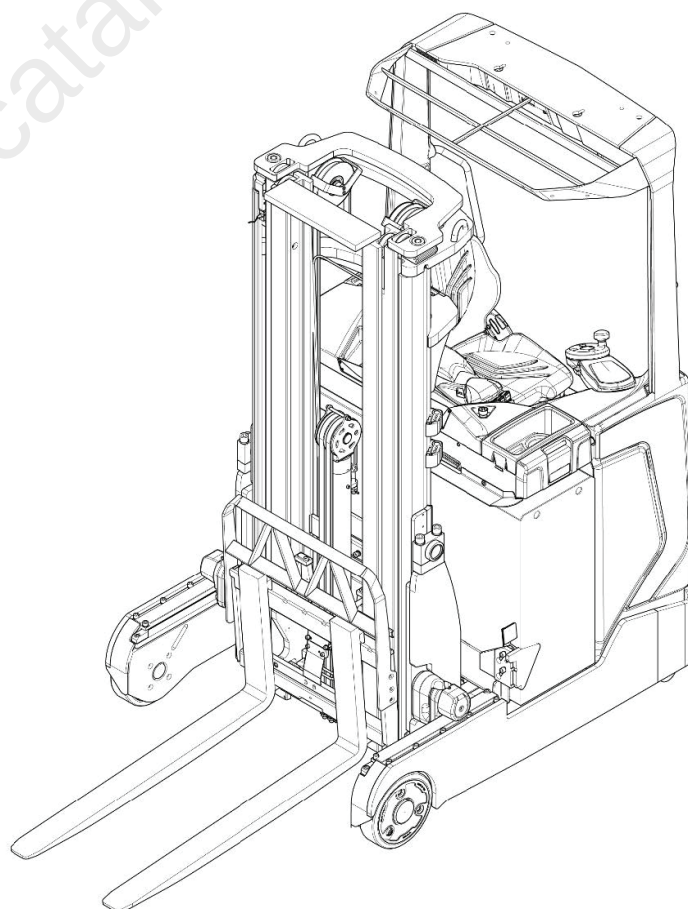


Table 5. Schematic diagram identifiers

IDENTIFIER	DESCRIPTION
S#	Switches and other state changing devices (for example, most sensors).
#F#	Fuse
J#	Reference. All references marked with an even "J" (for example J2) are positive (+). All references marked with an odd "J" (for example J3) are negative (-).
M#	Motor
V#	Diode
A#	Controllers and displays
K#	Contactors and relays
X#	Connector. Contact numbers are marked on individual wires.
XX#	Splice. Multiple wires are connected together at this point.

Figure 111 shows the reference to which Figure 110 referred.



Figure 111. Page 8, zone 16, wiring reference J14

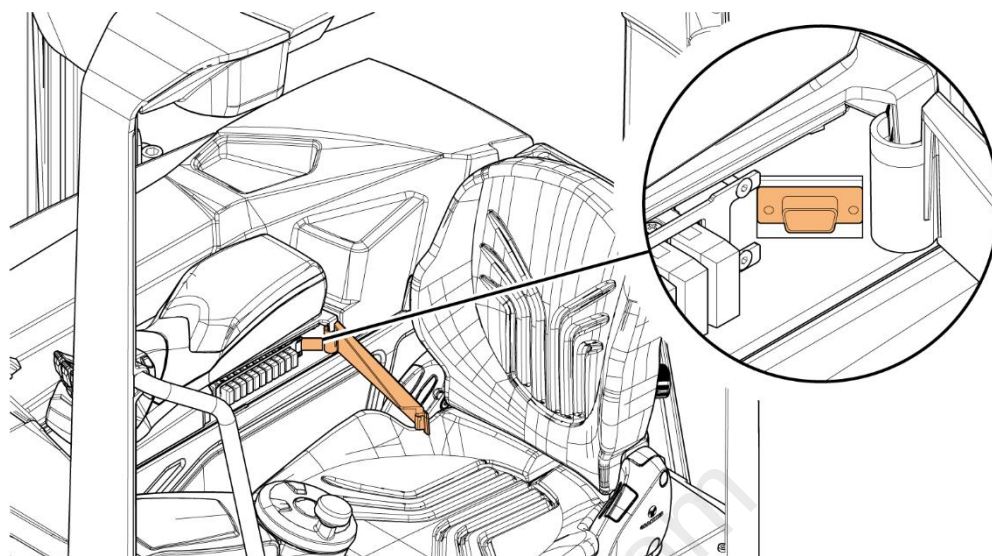
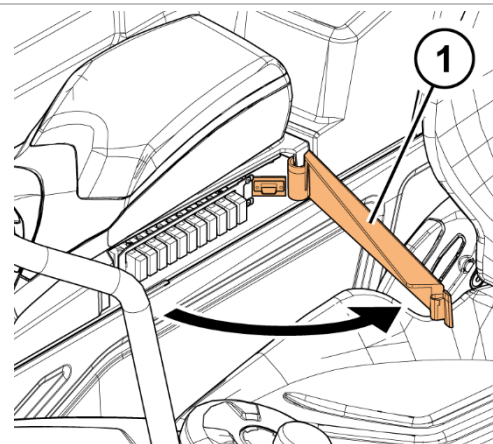


Figure 161. Location of the service socket

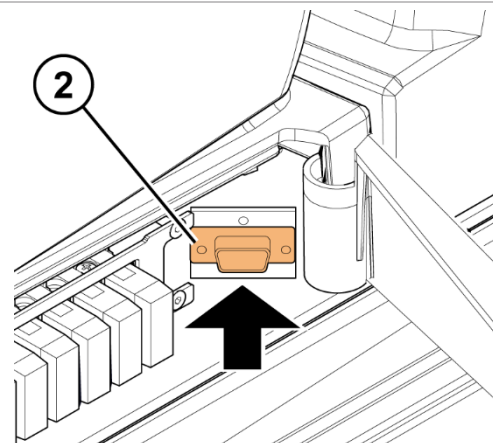
11.1.1 Connect TruckTool to the service socket

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.



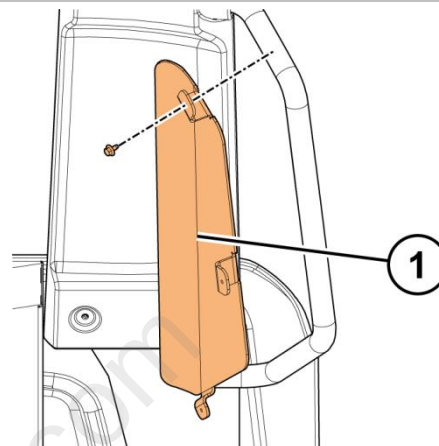
2. Connect TruckTool to the service socket.



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

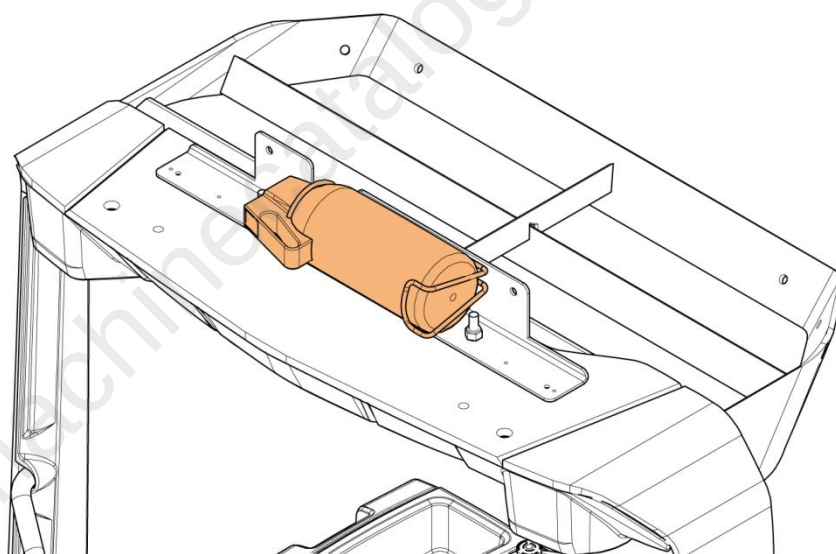


Figure 185. Fire extinguisher overview

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.

8.3.9.1 CNA external connector

CONNECTION	DESCRIPTION
A3 CHA (XA3A/3) (encoder channel A)	A channel of the steering motor encoder.
A4 CHB (XA3A/4) (encoder channel B)	B channel of the steering motor encoder.
A5 GND (XA3A/5) (encoder GND)	Ground for the steering motor encoder.
A6 PTHM (XA3A/6) (temperature sensor input)	Input for the motor temperature sensor.
A7 GND (XA3A/7) (temperature sensor GND)	Ground for the motor temperature sensor.
A8 GND (XA3A/8) (QL channel GND)	Ground for the steering wheel QL channel.
A9 PCOIL (XA3A/9) (brake supply)	Brake supply (single safety contact).
A11 SW1 (XA3A/11) (reference sensor 90 degrees)	Steering reference sensor 90 degree switch.
A12 SW2 (XA3A/12) (reference sensor 0 degrees)	Steering reference sensor 0 degree switch.
A15 KEY-IN (XA3A/15) (key)	Key line supply for EPS.
A16 VCC2 (XA3A/16) (encoder supply)	Supply for the motor encoder.
A17 QL (XA3A/17) (QL channel)	Steering wheel QL channel.
A19 GND (XA3A/19) (GND)	Ground for the steering wheel DL channel.
A20 DL (XA3A/20) (DL channel)	Steering wheel DL channel.
A22 CANH (XA3A/22) (CANH)	High signal of CAN bus.
A23 CANL (XA3A/23) (CANL)	Low signal of CAN bus.

Full Version Available

Caterpillar NR20N2X Reach Truck Service and Operator Manual (622076-EN-C)

Caterpillar NR20N2X Reach Truck service manual, covers mast, hydraulics, drive, wiring, and diagnostics. Searchable PDF download.

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