

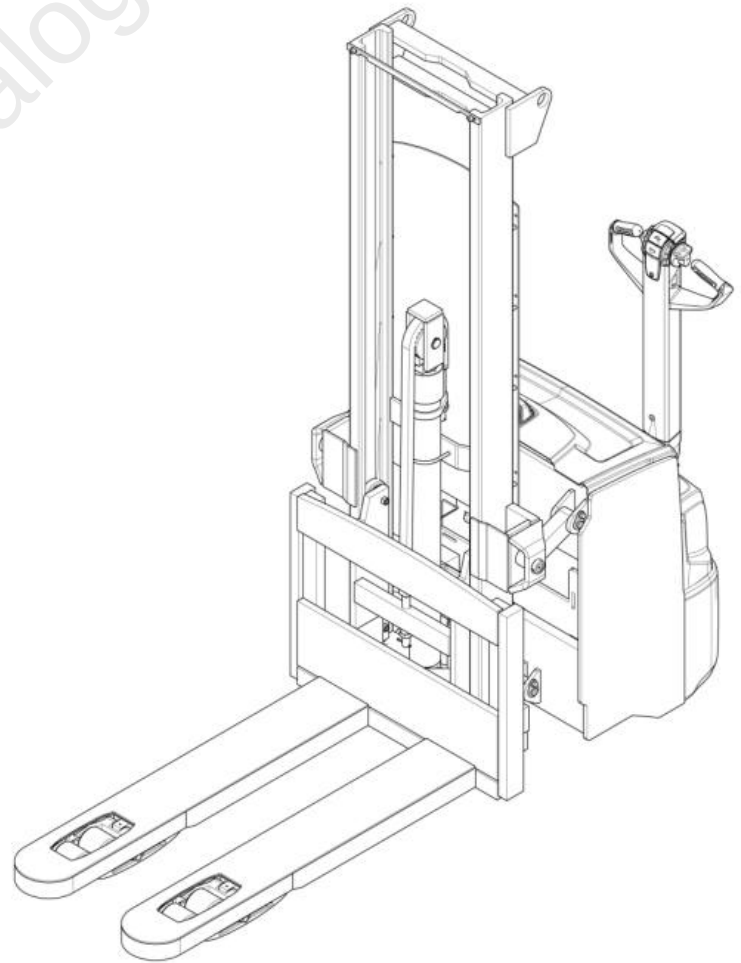
SERVICE MANUAL

NSP

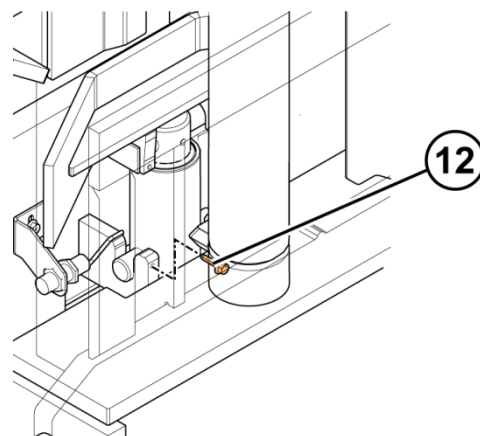
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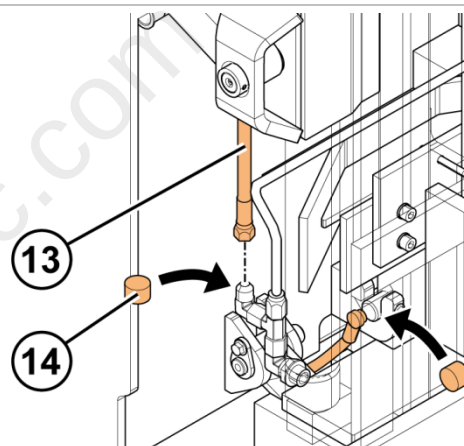
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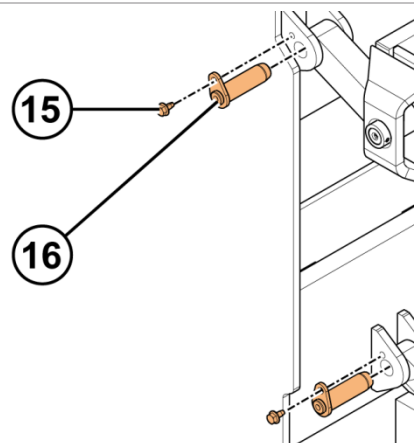
- 12.** Remove the screws of the initial lift cylinder.



- 13.** Disconnect the hydraulic hose.
14. Plug the hydraulic connector on the mast unit side to prevent oil leakage.



- 15.** Remove the bolts attaching the top and bottom initial lift leverages to the truck frame.
16. Remove the top and bottom initial leverage shafts.



8.2.4 Contactors and relays

Type	Main / drive contactor
Coil type	24 Vdc continuous duty coil
Electrical wiring	Coil: quick connect terminals 6.3 x 0.8 mm Power contacts: M8 ring terminals
Contact rating	Resistive load: 125/150 A @ 60 Vdc max Overload: 205/225 A / UL 508 Inductive load: 100 A @ 96 Vdc max
Switching output	NO
Spare part	RL490525

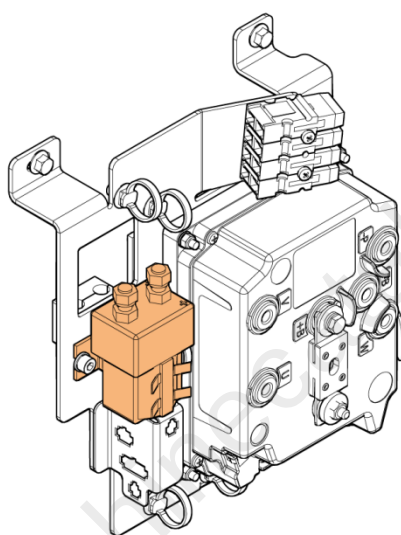
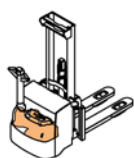


Figure 96. Contactor

A contactor is an electrically-controlled switch used for switching a power circuit, similar to a relay, except with higher current ratings. A contactor is controlled by a circuit, which has a much lower power level than the switched circuit.

Contactor functionality check:

1. Measure the resistance between the coil A1 – A2 terminals.
The resistance value should be $\sim 55 \Omega$.
If the resistance value is $\sim 0 \Omega$ or $\sim \infty \Omega$, replace the contactor.
2. Measure the resistance between the main switching contacts 1-2.
The resistance value should be $\sim \infty \Omega$.
If the value does not match the above, replace the contactor.

CODE	TRUCKTOOL AND DISPLAY DESCRIPTION		
189	Battery lock not closed BATTERY LOCK	(Alarm)	
	This alarm indicates that the battery lock is not closed. In such a case, check the battery lock state from the tester menu. If the lock is stated to be open while the battery is mechanically locked, check the battery lock sensor operation and wiring.		
190	Motor braking error BRK TIMEOUT	(Alarm)	Stored
	One possible cause for this alarm is too steep braking ramp (parameter). Try to lower the braking ramps from the parameters. Also braking at a slope when the truck is loaded can cause this error.		
192	Waiting for EPS EPS RELAY OPEN	(Alarm)	Stored
	This alarm indicates that there is some problem in the steering and the steering has frozen.		
193	Sideguard inputs illegal state SIDEGUARD INPUTS	(Alarm)	
	This alarm is caused by an invalid combination of side guard inputs. If both the side guards are in the correct position (both open or both closed), check from the tester menu if the logic inputs are the same. Check the correct positioning and operation of the side guard sensors. Also check the wiring of the sensors.		
194	Platform inputs illegal state PLATFORM INPUTS	(Alarm)	Stored
	This alarm is caused by an invalid combination of operator's platform inputs. When the operator's platform is either down with a driver standing on it or up, check from the tester menu that the logic inputs are correct. Check the correct positioning and operation of the platform sensors. Also check the sensor wiring.		
195	Platform inputs inactive WAITING DRIVER	(Warning)	
	This is a general warning indicating only that the truck is waiting for an operator.		
196	Invalid motor resistance MISMATCHED RM	(Alarm)	Stored
	This alarm occurs if the motor resistance is different than the value of the parameter MOTOR RESIST. In such a case, teach the new motor resistance value by setting the parameter MOTOR RESIST to 0 and saving the value while holding the tiller arm in the drive position. Restart the truck after the main contactor is opened. The new settings are active after the restart.		

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Caterpillar NSP14N2 Stacker Service and Operator Manual (616838)

Caterpillar NSP14N2 service manual, covers mast, hydraulics, drive unit, wiring, and diagnostics in PDF. Instant PDF download.

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