

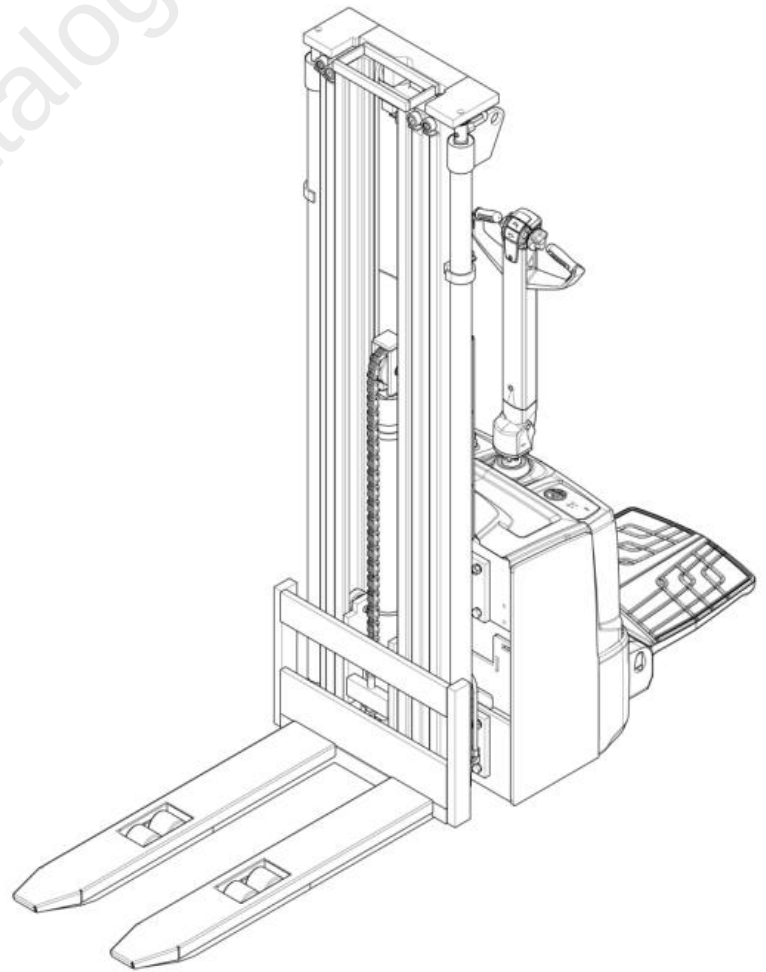
SERVICE MANUAL

NSP

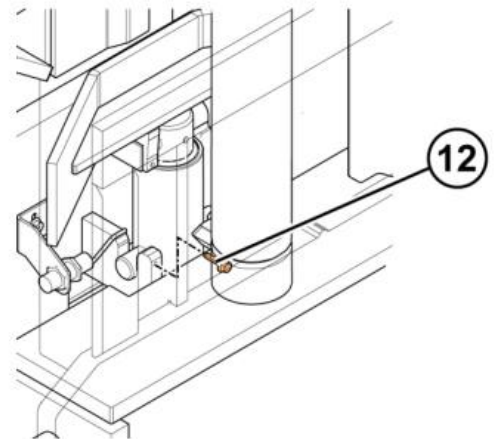
10N2R/12N2R/12N2IR/

14N2R/14N2IR/

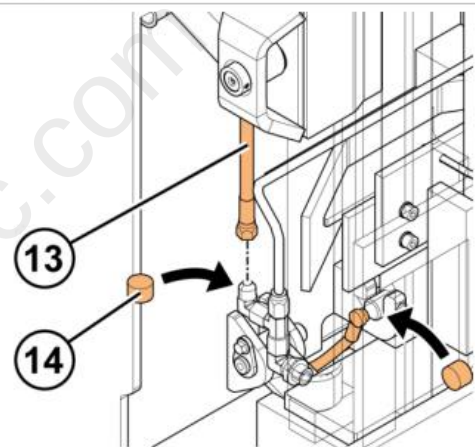
16N2R/16N2IR/16N2SR



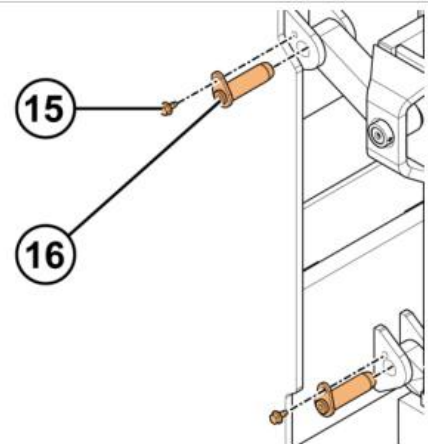
- 12.** Remove the screws of the initial lift cylinder.

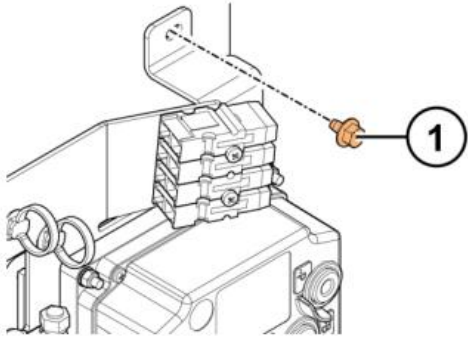
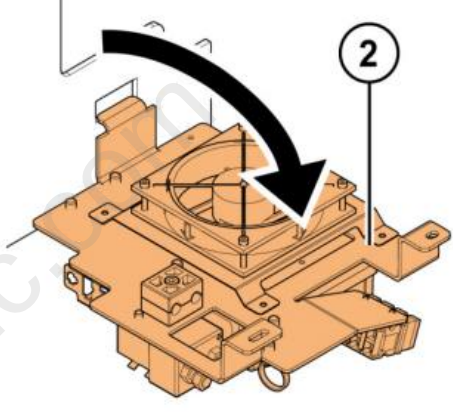
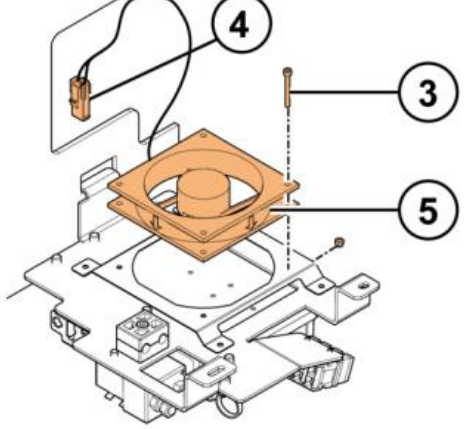


- 13.** Disconnect the hydraulic hose.
14. Plug the hydraulic connector on the mast unit side to prevent oil leakage.



- 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.



1. Remove the two 10 mm bolts from the electric panel.	 A line drawing of the electric panel assembly. A bolt is shown being removed from the top of the panel, indicated by a dashed line and a circled number 1.
2. Turn the electric panel to the side to access the controller fan.	 A line drawing of the electric panel assembly. A large curved arrow indicates the panel is being turned to the side, as indicated by a circled number 2.
3. Remove the controller fan fixing screws. 4. Disconnect the controller fan connector. 5. Remove the controller fan.	 A line drawing of the electric panel assembly with the fan removed. The fan is shown being lifted out of the panel, indicated by a dashed line and a circled number 5. The fan connector is shown being disconnected from the panel, indicated by a dashed line and a circled number 4. The fan fixing screws are shown being removed from the panel, indicated by a dashed line and a circled number 3.

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 SIDEWARD 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.		

IDENTIFIER	DESCRIPTION
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 85 shows the reference to which Figure 84 referred.

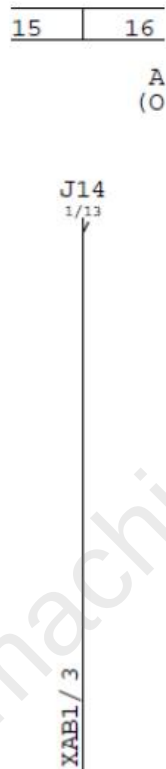


Figure 85. Page 8, zone 16, wiring reference J14

Once again, note the numbers below the wiring reference J14. These numbers (1/13) direct you back to the page (and zone) shown in Figure 84.

INPUTS & OUTPUTS	4 / 9	REV H
	3-7109	

Figure 86. Page numbers (4/9), circuit diagram number (3-7109) and revision letter (H)

Full Version Available

Caterpillar NSP14N2IR Stacker Service and Operator Manual (616843)

Caterpillar NSP14N2IR Stacker service manual, covers mast, hydraulics, drive, wiring, and diagnostics. Searchable PDF download.

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