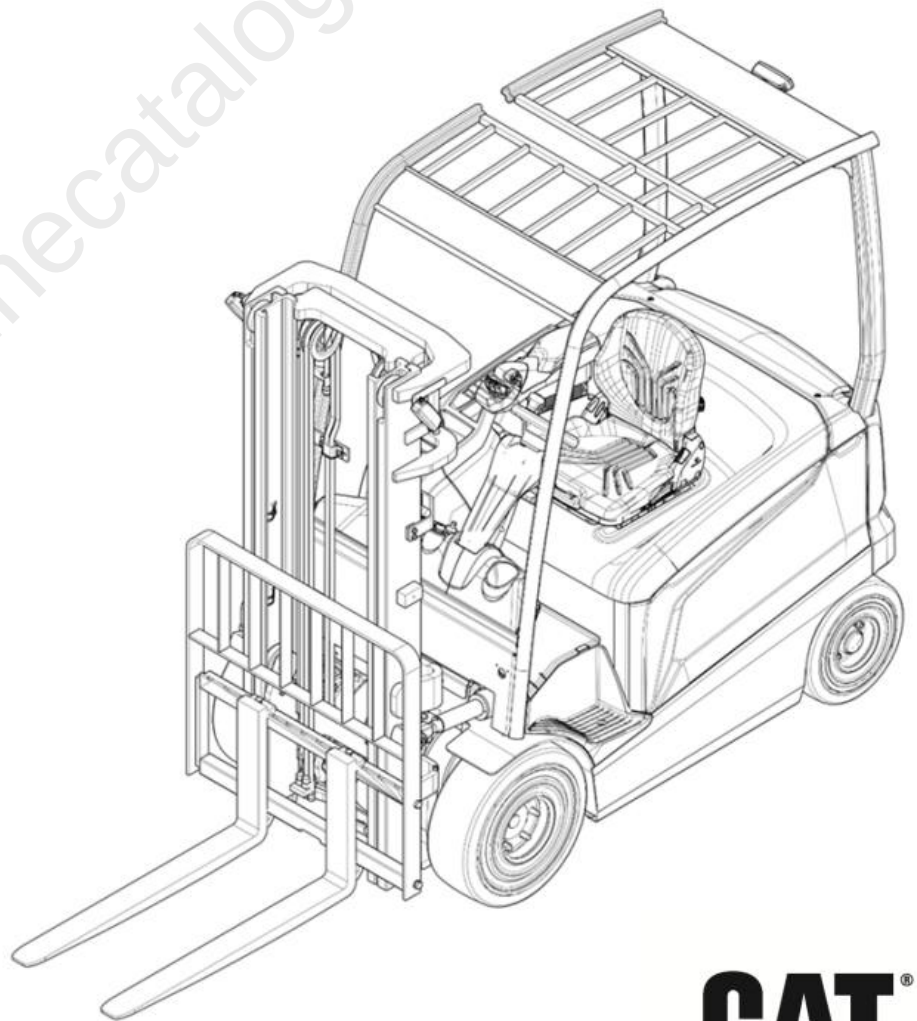


# SERVICE MANUAL

EP25(C)N

EP30(C)N

EP35N



### 5.15.14 Tilt cylinders

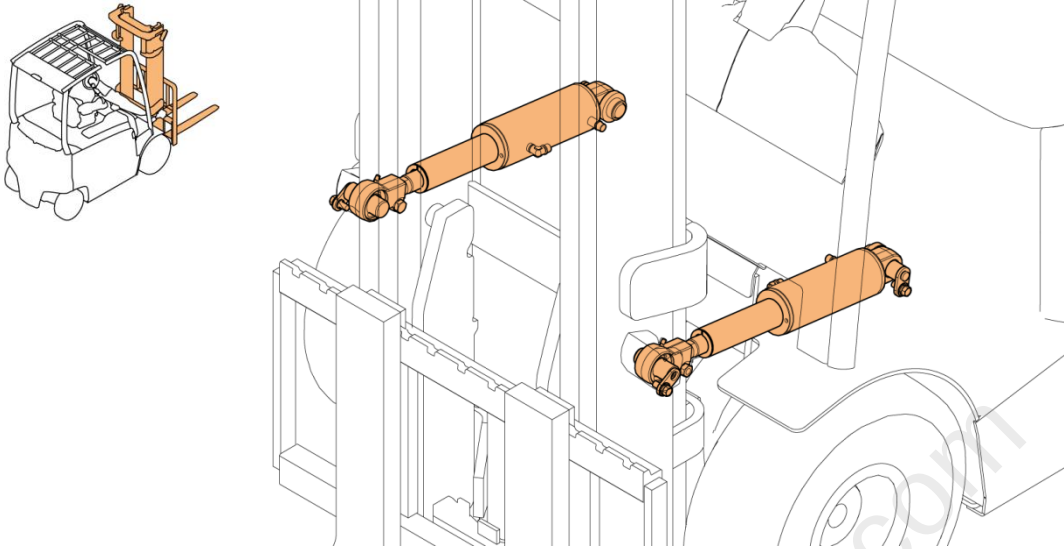
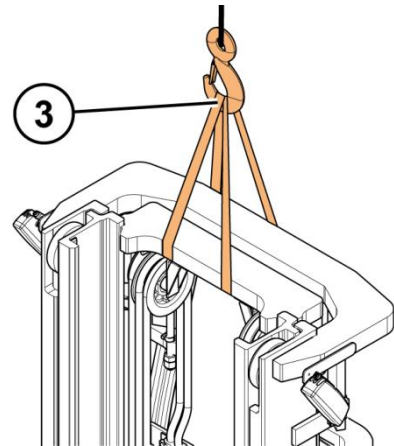


Figure 123. Tilt cylinders overview

#### 5.15.14.1 Remove the tilt cylinders

1. Remove the pedal plate, see section 5.6.2.
2. Remove the step cover, see section 5.6.9.

3. Attach a lifting device to the mast and tighten the chains or ropes.  
NOTE: Make sure that you use applicable lifting devices and follow the safety instructions given by the lifting device manufacturer.



## 10.6 Hydraulic valve unit with manual levers

### CAUTION



When working on the hydraulic valves and connectors, avoid getting any dirt into the connectors or valves. Dirt in the hydraulic system often causes problems in the functionality of the truck.

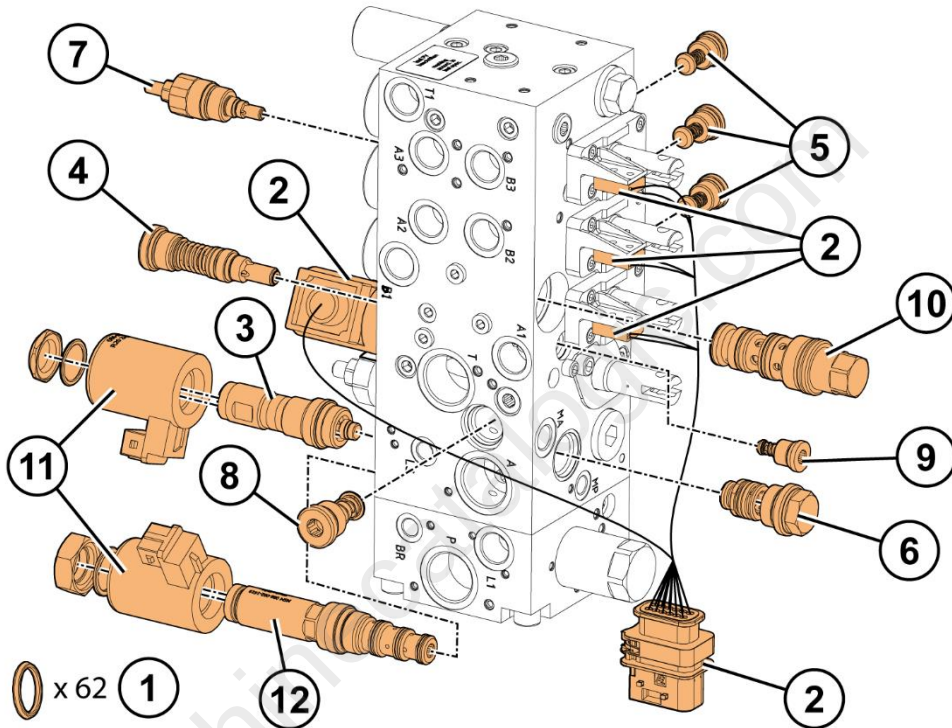
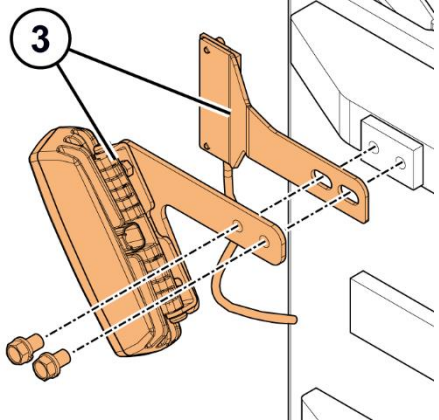
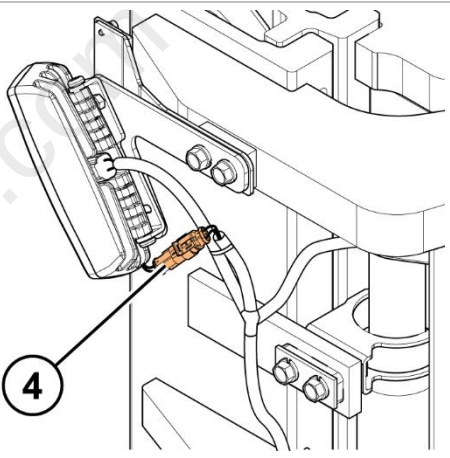
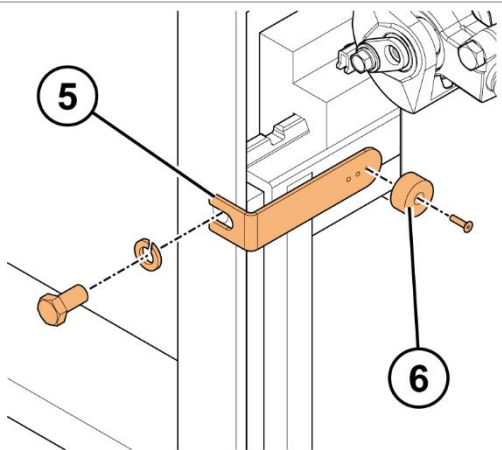


Figure 214. Spare parts of the hydraulic valve unit with manual levers overview

- |                                 |                              |
|---------------------------------|------------------------------|
| 1. Seal kit                     | 7. Pressure relief valve NG4 |
| 2. Wiring harness 4-axis        | 8. Check valve NG12          |
| 3. Electric piloted check valve | 9. Check valve               |
| 4. Backpressure valve           | 10. Brake valve              |
| 5. Check valve cpl.             | 11. Solenoid coil 80 V DC    |
| 6. Check valve assembly         | 12. 4/2 directional valve    |

|                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>3.</b> Install the mast height sensor and the working light to the mast with 2 screws.</p>                                                                                                      |  A technical diagram showing an orange mast height sensor and working light assembly being mounted to a vertical mast. Two screws are shown being inserted into the back of the sensor unit. A callout circle with the number 3 points to the sensor unit.                             |
| <p><b>4.</b> Connect the sensor connector.</p>                                                                                                                                                        |  A technical diagram showing the sensor connector being plugged into the back of the sensor unit. A callout circle with the number 4 points to the connector.                                                                                                                         |
| <p><b>5.</b> Install the counterpart of the mast height sensor to the lifting carriage with a screw.</p> <p><b>6.</b> Install the magnetic part of the sensor to the mounting plate with a screw.</p> |  A technical diagram showing two steps of installation. Step 5 shows a screw being used to attach a bracket to a lifting carriage. Step 6 shows a screw being used to attach a magnetic part to a mounting plate. Callout circles with numbers 5 and 6 point to the respective parts. |

## Full Version Available

### Caterpillar EP35N Forklift Service, Operator and Schematic Manual (624632-EN-B.1)

Caterpillar EP35N Forklift service manual, covers electric drive, hydraulics, mast, wiring, and schematics. Instant PDF download.

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