



Service Manual

Controller

FC/MC

EP13PNT ETB21-00011-01999 / ETB21-02001-49999

EP15PNT ETB21-50011-51999 / ETB21-52001-99999

EP16CPNT ETB22-00011-01999 / ETB22-02001-49999

EP18CPNT ETB22-50011-51999 / ETB22-52001-99999

EP16PNT ETB23-00011-01999 / ETB23-02001-49999

EP18PNT ETB23-50011-51999 / ETB23-52001-99999

EP20PNT ETB24-00011-01999 / ETB24-02001-99999

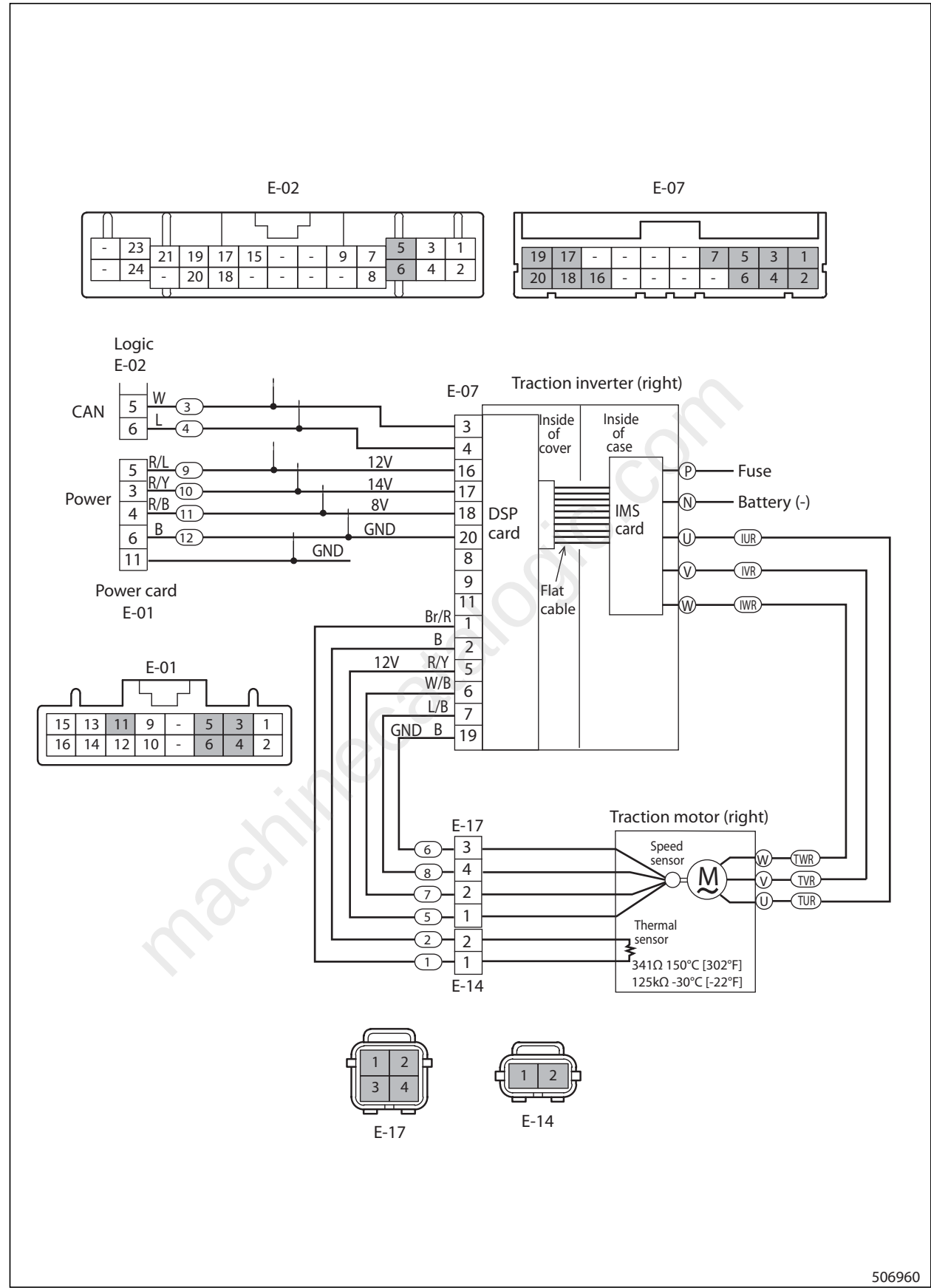
EP16CPN ETB27-00011-01999 / ETB27-02001-49999

EP18CPN ETB27-50011-51999 / ETB27-52001-99999

EP16PN ETB28-00011-01999 / ETB28-02001-49999

EP18PN ETB28-50011-51999 / ETB28-52001-99999

EP20PN ETB29-00011-01999 / ETB29-02001-99999



8. Removing Pump Motor

8.1 Suggestions for Removal

⚠ CAUTION

- Record places of the harness connections before removal.
- Turn the key switch to the off position and operate hydraulic levers a few times to release high pressure in the hydraulic piping before disconnecting hydraulic hoses or pipes.
- When disconnecting hydraulic pipes, cap them to prevent dust from entering into hydraulic components and pipes.

(1) Remove the floor plates.

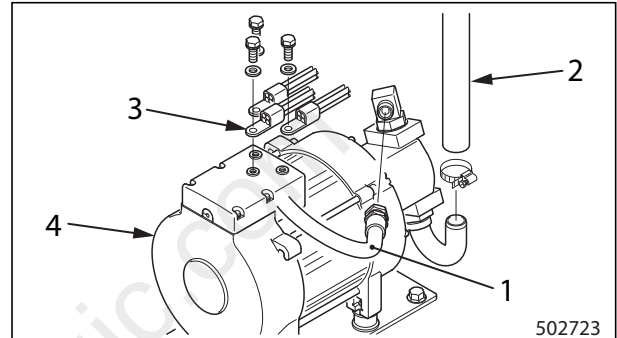
(2) Disconnect following hoses from the gear pump.

- High-pressure hose (from the control valve)
- Low-pressure hose (from the hydraulic tank)

Note: Prepare a drip pan to catch remaining oil inside the hoses.

Plug the hose openings to prevent from leaking.

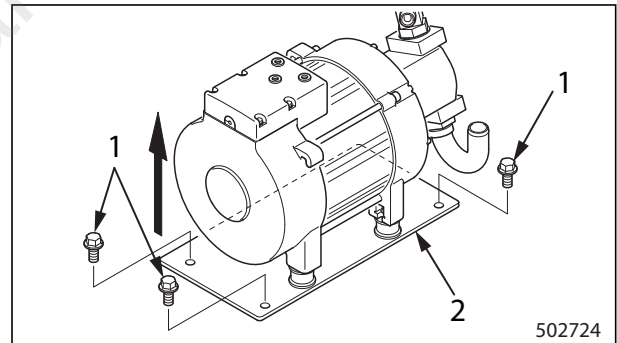
(3) Disconnect lead wires of the pump motor.



1. High-pressure hose
2. Low-pressure hose

3. Lead wires
4. Pump motor

(4) Remove flange bolt for the motor bracket, and hoist the pump motor with the motor bracket.



1. Flange bolt

2. Motor bracket

Tightening torque for flange bolt

38.6 to 47.2 N·m (4.0 to 4.8 kgf·m) [28.5 to 34.8 lbf·ft]

Full Version Available

Caterpillar EP18PNT Forklift Service and Operator Manual (99759-6P110)

Caterpillar EP18PNT forklift service manual, covers hydraulics, mast, wiring, drive unit, and electric systems. Searchable PDF download.

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