



Service Manual

Chassis, Mast & Options

EP10KRT	ETB10-00011-up
EP12KRT	ETB10-20001-up
EP15KRT	ETB10-50001-up

Basic Check

Always following basic troubleshooting steps.

- Talk to the operator.
- Confirm his description of the problem with an operational check.
- Visually inspect cables, connectors, contactor tips, etc.
- Perform basic battery cables to frame resistance test. (at least 20 k ohm)
- Check battery condition.

Always check each option and write down the reading.

Testing Tools

- (a) Circuit tester
- (b) Clamp meter
- (c) IC tip
- (d) Digital console (Refer to Page 3-25.)

NOTE

The illustrations show digital circuit testers. In these testers, the positive (+) terminal is applied with positive charge, and the negative (-) terminal with negative charge. It should be noted that the terminals must be connected inversely when using an tester.

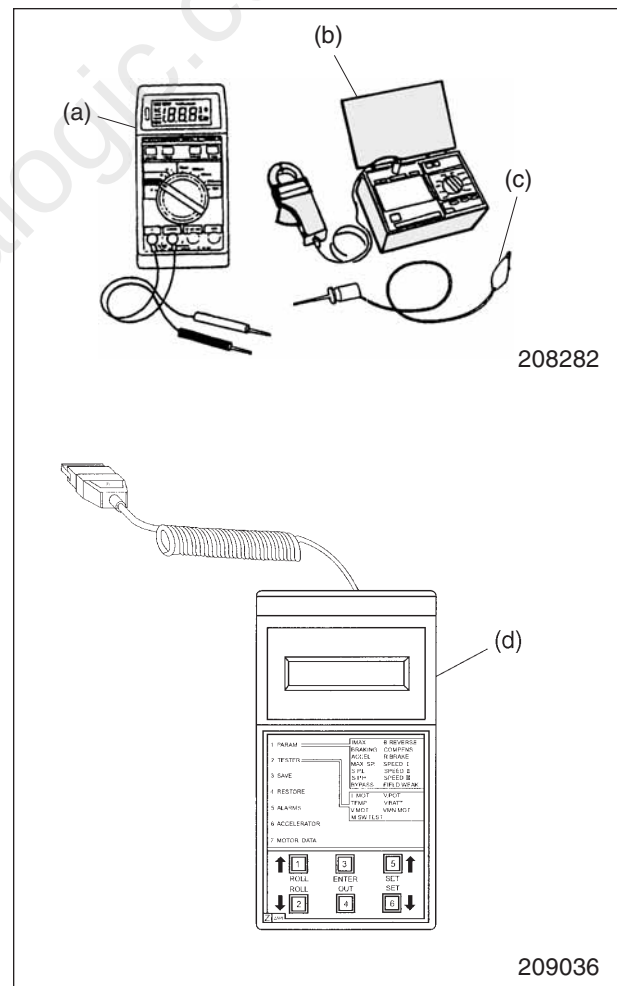
! WARNING

Disconnect the battery plug before inspecting or adjusting the controller.

Measurement of Logic Card Voltage

! WARNING

To prevent accidental movement of the vehicle, place wood blocks under the vehicle to lift the rear wheel off the ground. Do not stand close to the rear wheel.



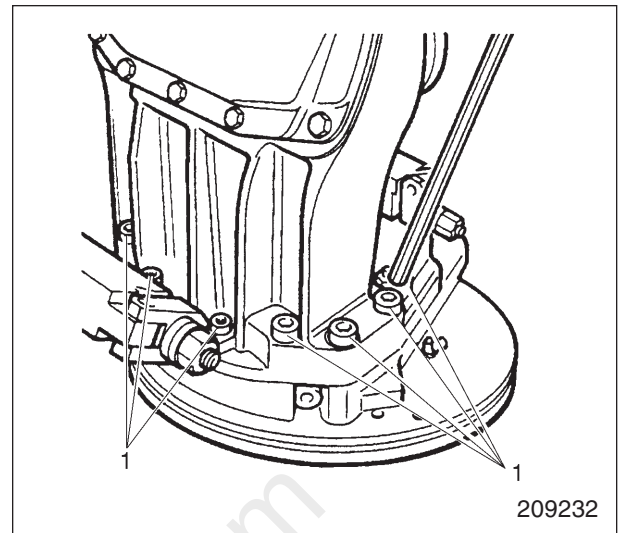
2. Remove housing top section

Loosen and remove the socket head bolts 1 on the bottom side of the rear axle housing as well as inside the housing top section.

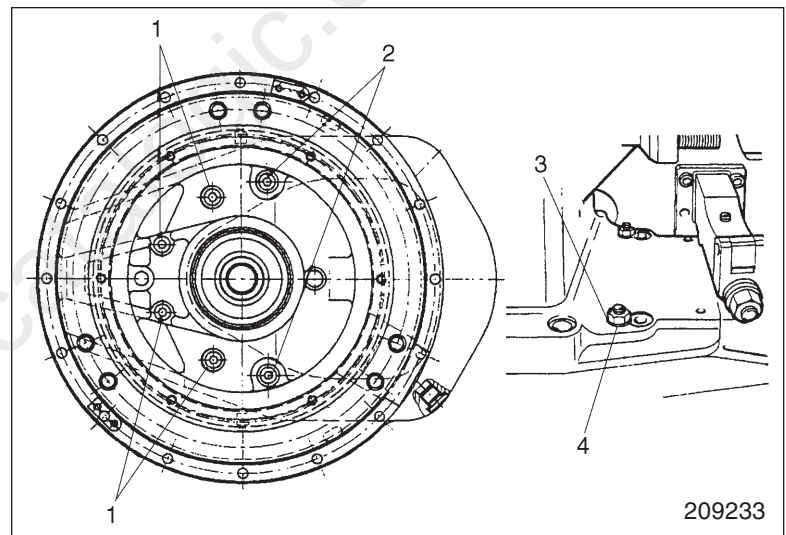
5xM8x35

2xM8x50

8xM10x45



This rear axle version has the housing top section additionally fastened to the axle housing by means of two socket head bolts 2, hexagon nuts 3 and washers 4.

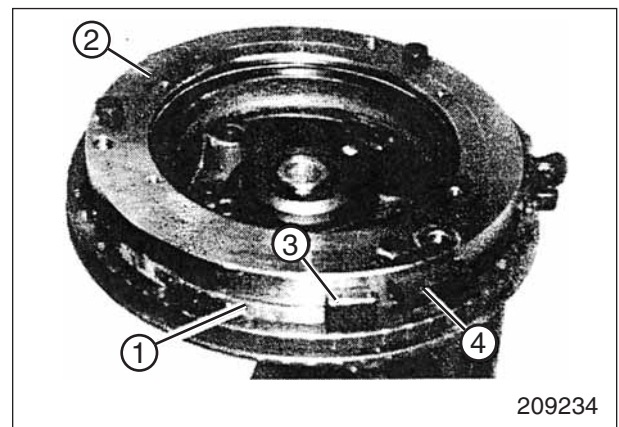


For motor fixing the centering ring 2 is bolted onto the pivoting bearing 1.

Two final stops 3 on the chain tread and the lock plate 4 connected with the centering ring are required for the steering lock.

NOTE

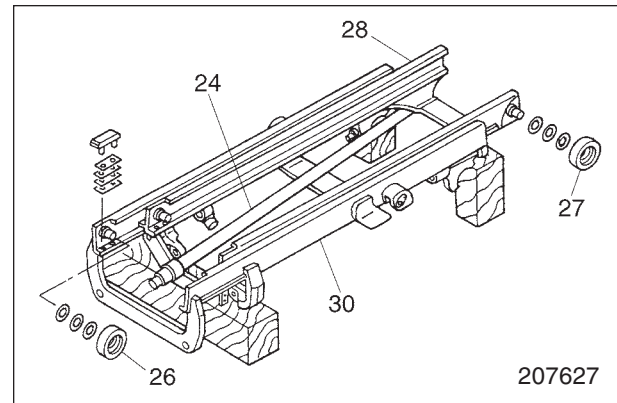
Only in case of damage, does the lock plate and the two final stops have to be removed and replaced.



MAST AND FORK

4. Removing main rollers 26, 27 from middle mast 28 and outer mast 30

Remove the bolts that are holding second lift cylinders 24. Place the cylinder rod ends on the outer mast. Lower middle mast 28 until main rollers 26, 27 can be removed. Then, remove the main rollers.



Full Version Available

Caterpillar EP12KRT Forklift Service Manual (99759-65110)

Caterpillar EP12KRT forklift service manual, covers electrical systems, hydraulics, mast, drive unit, and diagnostics. Searchable PDF download.

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