



MITSUBISHI
FORKLIFT TRUCKS

SERVICE MANUAL

FB20K

EFB8B-00011-up

FB25K

EFB8B-50001-up

machinecatalogic.com

FC/MC
CHASSIS
MAST

Problem: Pump Motor, Current Sensor Fault**Symptom:**

(1) Display = "34".

Drive and pump motor stop. Normal power steering operation.

Possible Cause:

(2) Wire break in pump T1P IGBT, faulty wire connection, drive card defect, pump CS current sensor failure, logic card defect.

Checks:

(3) Disconnect battery plug.

Check CS for abnormality.

- Unacceptable

Replace faulty component.

- Acceptable

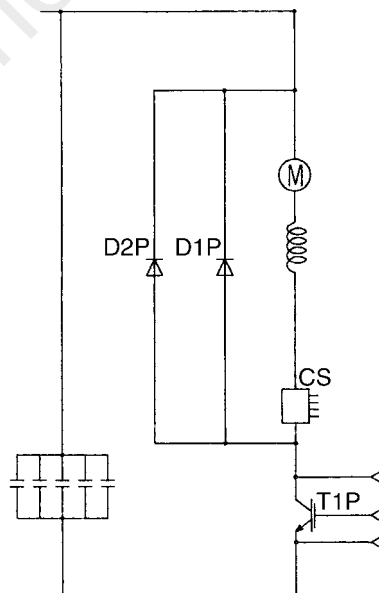
(4) Check IGBT and drive card for abnormality.

- Unacceptable

Replace faulty components.

- Acceptable

Replace logic card.



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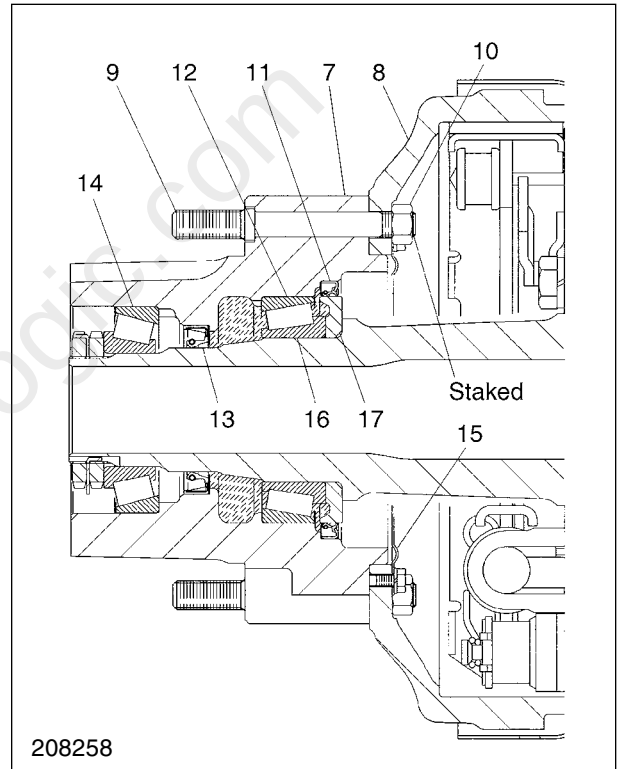
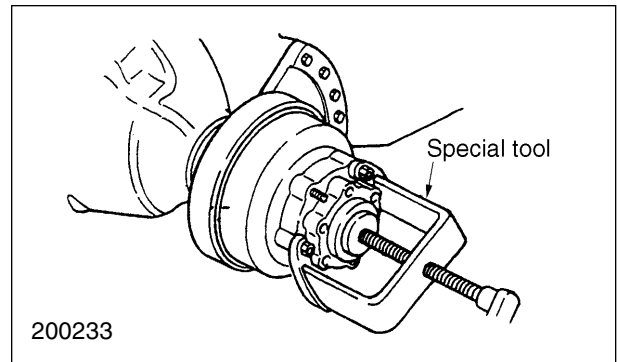
(5) Remove the hub and drum assembly.

The hub and drum assembly will be removed by pulling horizontally. If it cannot be pulled out, use the special tool as shown in the illustration at right.

Special tool needed

Hub puller	MH061017
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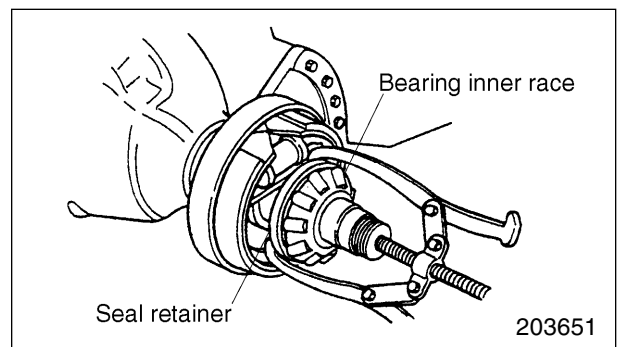
- Do not remove the following parts from the inside of the wheel hub 7 unless they are faulty. When removing them, use a puller.
 - Taper roller bearing outer race 12 and 14
 - Oil seal 11 and 13
- Normally, it is not necessary to separate the wheel hub 7 and the brake drum 8. To separate them, the nut 10 must be removed. (The nut 10 has been staked to the bolt 9 after assembly to prevent dropping off.)
- Remove the oil deflector 15 if necessary.



3. Removal of seal retainer and bearing inner race

Do not remove the retainer 17 and the bearing inner race 16 left on the axle housing unless they are faulty.

If they are to be replaced, remove them together using a puller.



4. Removal of front axle support and/or front axle housing

These parts cannot be removed without dismounting the power train assembly from the vehicle body. Refer to "GROUP 5 POWER TRAIN" for the procedure.

Key Points for Reassembly

Spool

- (1) Install O-ring on cap screw 7 (5 Hex), insert the spring guide section in the spring, then tighten the cap screw on spool 8.

Unit: N·m (kgf·m) [lbf·ft]

Tightening torque	12 to 14 (1.2 to 1.4) [8.76 to 10.2]
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- (2) Install O-ring on plug 11, and screw the plug into inlet housing by rotating two to three full turns.
- (3) Slowly insert the above spool assembly from the opposite side. Make sure the spool assembly slides smoothly before it contacts plug 9. Install the spool assembly into inlet housing, and make sure it slides smoothly.
- (4) Tighten plug 10 (27 Hex) and plug 11 (27 Hex).

Unit: N·m (kgf·m) [lbf·ft]

Tightening torque	71 ± 2 (7.1 ± 0.2) [51.8 ± 1.5]
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Main Relief Valve

Refer to the “Main Relief Valve Service Procedures” on page 12-53.

Pilot Relief Valve

Install spring 3 and pilot poppet 2 on plug 4, and insert the plug into inlet housing and tighten.

Unit: N·m (kgf·m) [lbf·ft]

Tightening torque	23 ± 1 (2.3 ± 0.1) [16.8 ± 0.73]
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NOTE

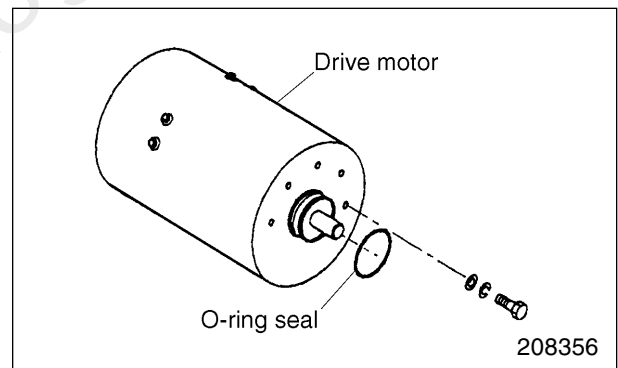
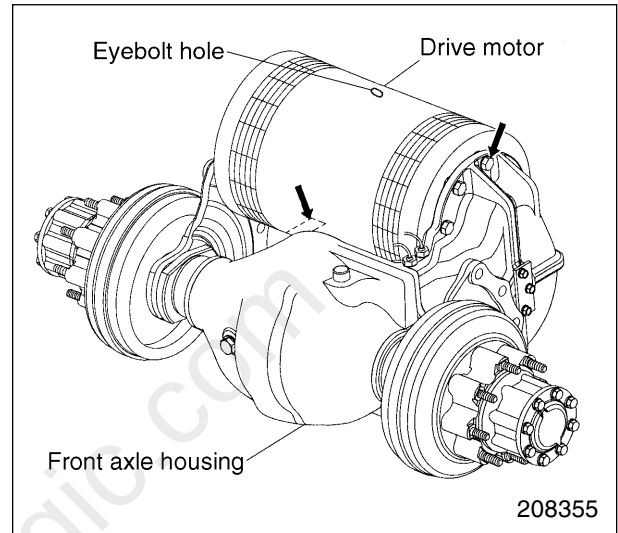
If adjuster kit 1 (17 Hex) was loosened, after installation on the vehicle, adjust the set screw (6 Hex) using a pressure gauge. After adjustment, tighten the hexagon nut (17 Hex) to lock in position.

Procedures and Key Points for Removal and Installation

Drive Motors

Removal

1. Remove the power train assembly.
(Refer to the “GROUP 5 POWER TRAIN”.)
2. Install lifting eye bolts (M12-1.75P) to the motor. Fasten the sling to the eyebolts and lift the motor to such an extent that the sling is strained.
3. Remove one bolt that holds the motor bracket to the drive motor body.
4. Remove five bolts that secure the drive motor to the transfer gear case.
5. Hoist the drive motor. The motor weighs approximately 115 kg (253 lb).



Installation

Follow the removal sequence in reverse.

Full Version Available

Mitsubishi FB20K Forklift Service Manual (99759-53100)

Mitsubishi FB20K forklift service manual, covers hydraulics, traction motor, wiring, and shop diagnostics in searchable PDF. Instant PDF download.

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