



MITSUBISHI
FORKLIFT TRUCKS

SERVICE MANUAL

FB16K	EFB6A-00001-up
FB18K	EFB6A-50001-up
FB20KC	EFB7A-00001-up

AC/MC
CHASSIS
MAST
OPTIONS

Problem: Left Drive Motor, Field Over-current

Indication: "29" display. Vehicle operation disabled.

(1) Situation

Indication: "29" display. Vehicle operation disabled.

(2) Cause

Faulty left motor field circuit, faulty logic card.

(3) Inspection

Disconnect battery plug.

Check H bridge card for abnormality.

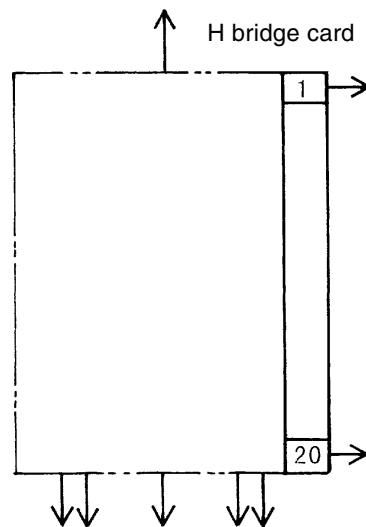
Acceptable

Unacceptable

(4) Check left motor field wiring for shorting.

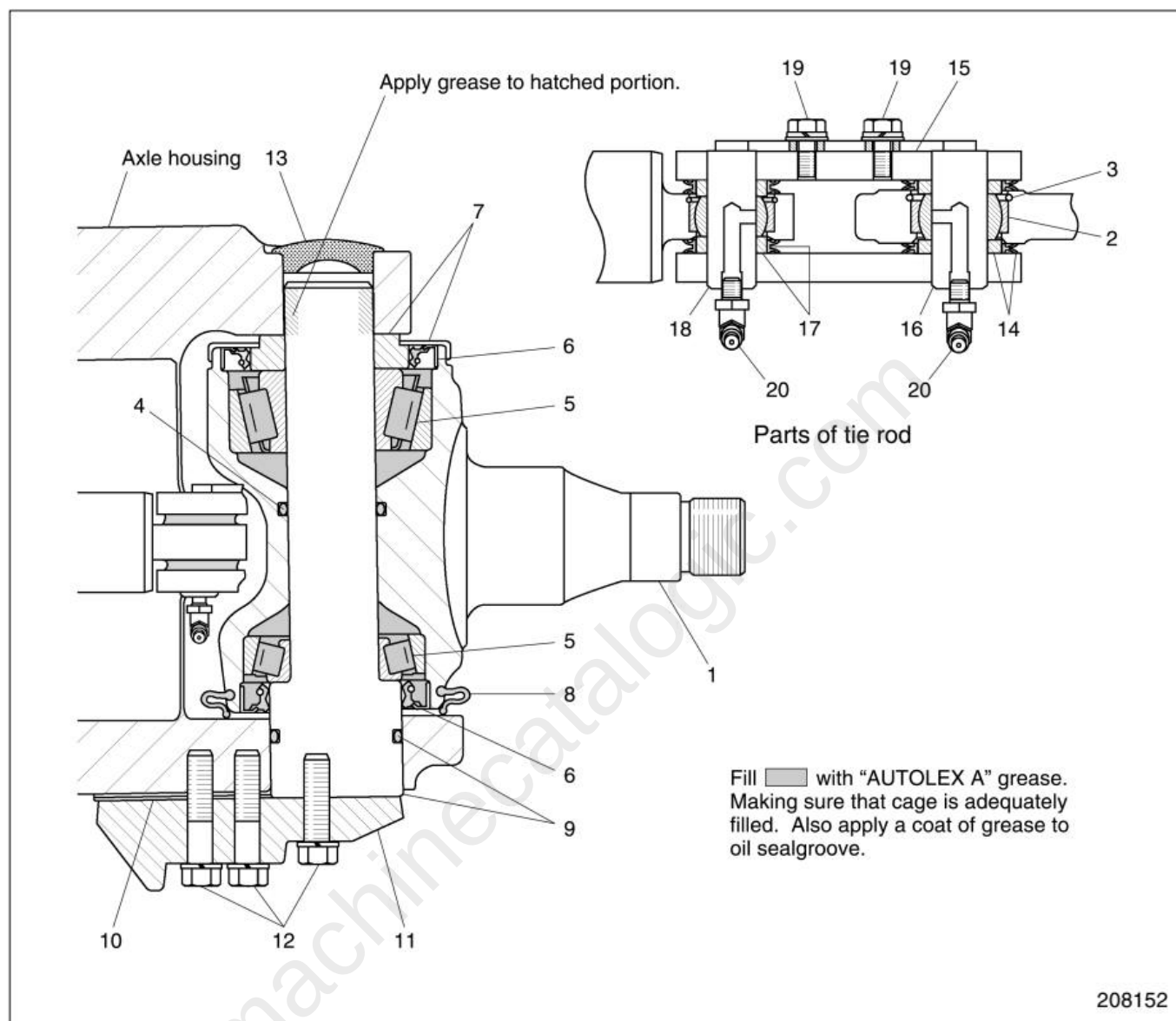
Shorted wire

No shorted wire

(7) Replace H bridge card.**(5) Correct or replace left motor field wiring.****(6) Replace logic card.**

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2. Assembling Knuckle and King Pin



Sequence

Assemble parts, knuckle 1 through boot 8, and insert this sub-assembly into the rear axle housing.

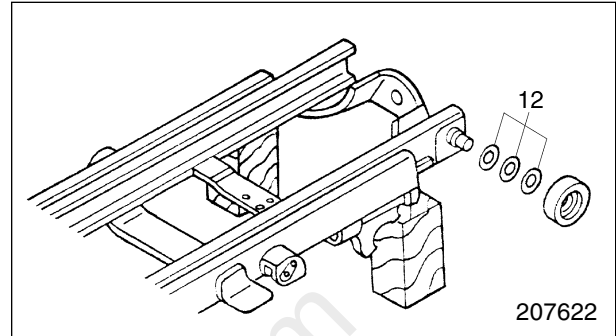
- | | |
|-------------------------------------|---|
| 1 Knuckle (with bearing outer race) | 10 Shims |
| 2 Spherical bearing | 11 King pin plate |
| 3 Ring | 12 Bolt, Spring washer |
| 4 O-ring | 13 Cap |
| 5 Bearing (inner race) | 14 Retainer, Dust seal (knuckle side) |
| 6 Oil seal | 15 Tie rod |
| 7 Retainer and cover as a unit | 16 Pin (knuckle side) |
| 8 Boot | 17 Retainer, Dust seal (steering cylinder side) |
| 9 King pin and O-ring | 18 Pin (cylinder side) |
| | 19 Spacer, Plain washer, Lock washer, Bolt |
| | 20 Grease nipple |

Reassembly

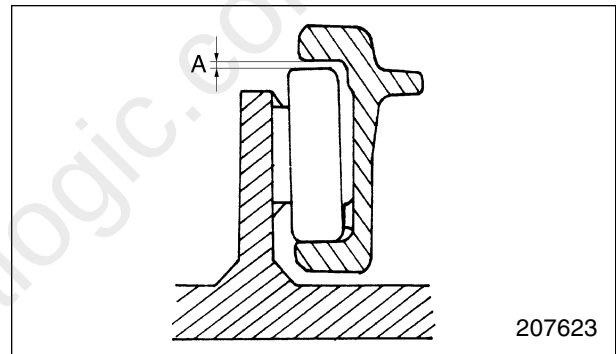
To reinstall, follow the removal sequence in reverse, and service as follows.

1. Main rollers

- (1) Adjust the right and left clearances by increasing or decreasing the thickness of shims 12.

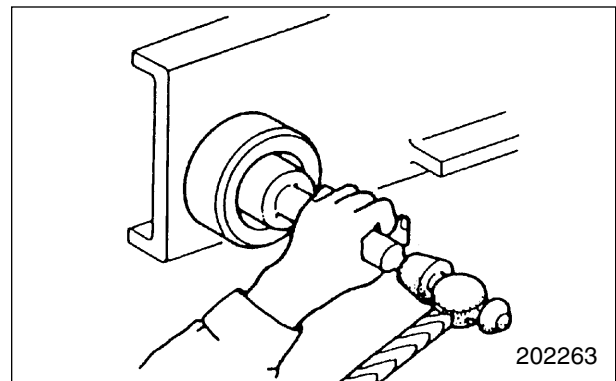


- (2) When replacing lift bracket main rollers, make sure clearance **A** between each roller and mast surface is 1 mm (0.04 in.) or less.



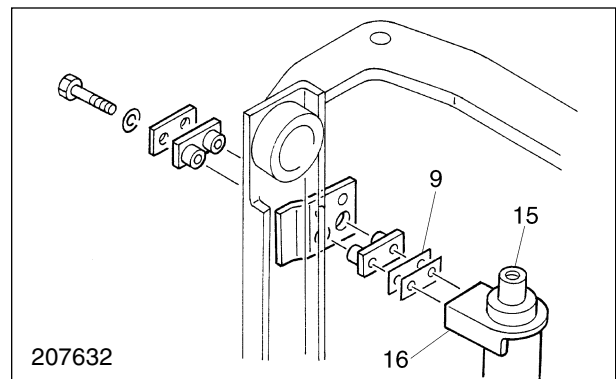
- (3) To install main rollers on shafts, use a driving tool. Be careful not to accidentally strike the outer roller surface with the driving tool.

The side of the roller with larger chamfered area must face toward the outside.



2. Installing second lift cylinders

When installing second lift cylinders 15, make sure the cylinders are parallel to the mast to prevent torsional stress on the lift cylinders when the mast is positioned at the bottom. Adjust the installation positions of lift cylinder brackets 16 with shims 9.



Procedures and Key Points for Removal and Installation

Drive Motors

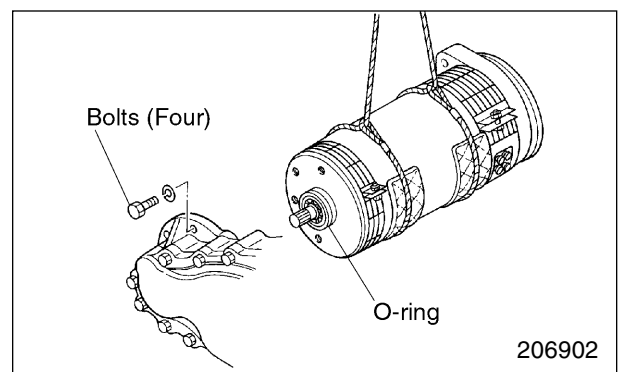
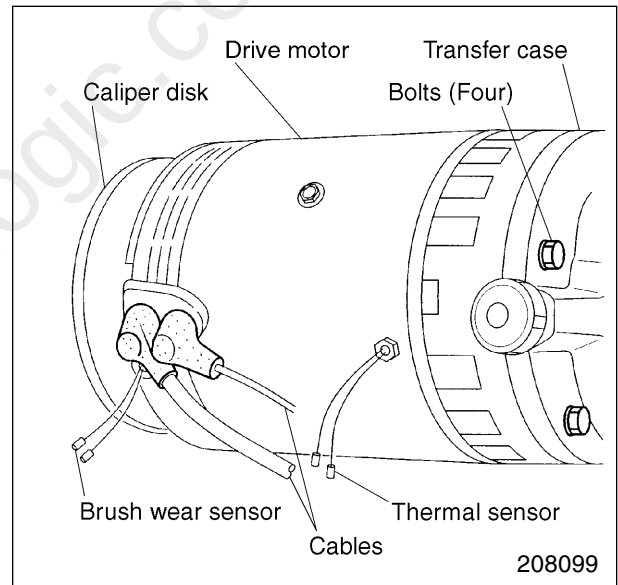
Removal

1. Remove the canopy.
2. Remove the battery.
(Refer to POWER TRAIN section.)
3. Remove the step and the floor plate.
(Refer to POWER TRAIN section.)
4. Remove the brake components.
(Refer to POWER TRAIN section.)
5. First, remove the right drive motor. Then remove the left drive motor.
 - (1) Put marks on the terminal for correct installation at assembly.
 - (2) Disconnect the harnesses of the motor thermal sensor and brush wear sensor.
 - (3) Disconnect the drive motor cables.
 - (4) Remove the brake caliper.
 - (5) Using a crane, lift the drive motor to suspend it.

NOTE

Position the hook above the gravitational center of the drive motor.

- (6) Remove the four bolts that secure the drive motor on the transfer case.
- (7) Separate the drive motor from the transfer case, and lift up the drive motor.



Installation

Follow the removal sequence in reverse.

Full Version Available

Mitsubishi FB20KC Forklift Service Manual (99759-52100)

Mitsubishi FB20KC forklift service manual, electric truck wiring, hydraulics, and drive diagnostics in searchable PDF. Instant PDF download.

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