



MITSUBISHI

FORKLIFT TRUCKS

SERVICE MANUAL

Chassis

FBC15

AFB1-50401

FBC20

AFB2-00203

AFB2A-00011 (FW)

FBC25

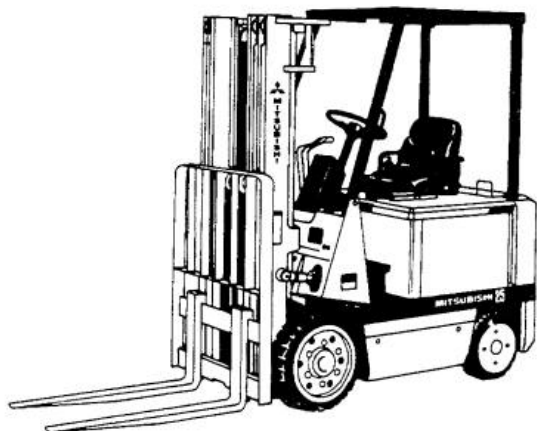
AFB2-50353

AFB2A-50005 (FW)

FBC30

AFB3-00067

AFB3A-00011 (FW)

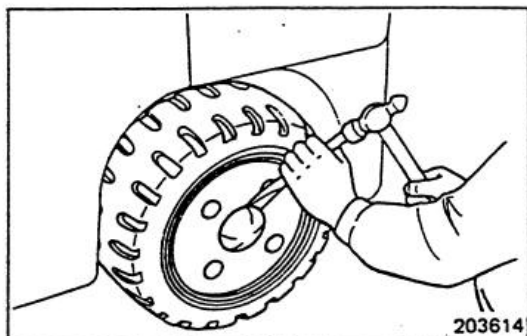


Quality Makes the Difference

Tips for removal

1 Cap removal

The cap is press fitted to the rim. Pry it off using a chisel and a hammer as shown. Discard the cap once removed and use a new cap when installing a replacement tire.



4 Rim and tire removal

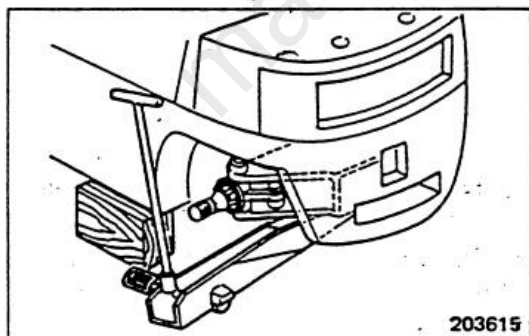
Remove the rim and tire assembly from the rear axle by wobbling it. Take care not to damage the oil seal fitted to the inner side of the rim. After removing the assembly, raise the counterweight to a position 400 to 500 mm (16 to 20 in.) from the floor.

7 Rear axle assembly removal

Support the rear axle at its center with a garage jack and remove the bolts securing the bearing support.

Weight of rear axle (without tires and rims)

FBC 15	60 kgs (132 lbs)
FBC 20-30	85 kgs (614.8 lbs)



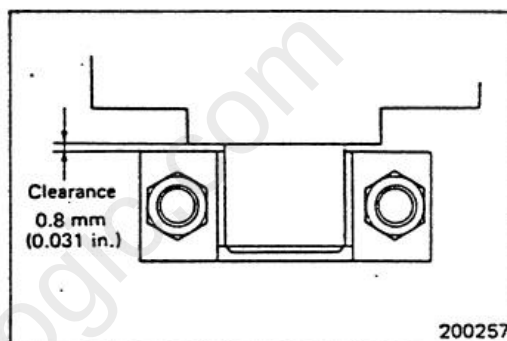
Installation

To install, follow the reverse of removal procedure and carefully proceed as follows:

(1) Bearing support clearance adjustment

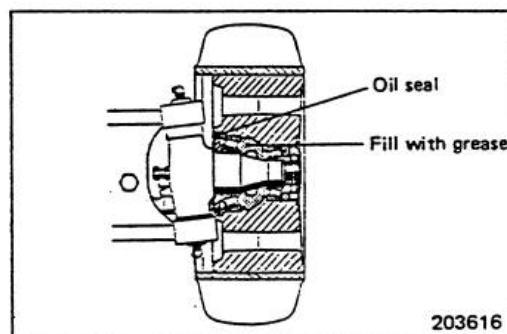
Make an adjustment by means of the thrust washer so that the total fore-aft clearance is 0.8 mm (0.031 in.). Tighten the bearing support bolts to the specified torque.

Tightening torque for bearing support bolts	14.8 kgf-m (107 lbf-ft)
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(2) Filling rim with grease

Fill the rim void with grease. Also fill the roller holder. Do not overfill the oil seal lip portion to prevent leakage.



(3) Preload adjustment and lock nut

Adjust the preload with the inside nut and, after tightening the outside (lock) nut to the sure that the preload is correct.

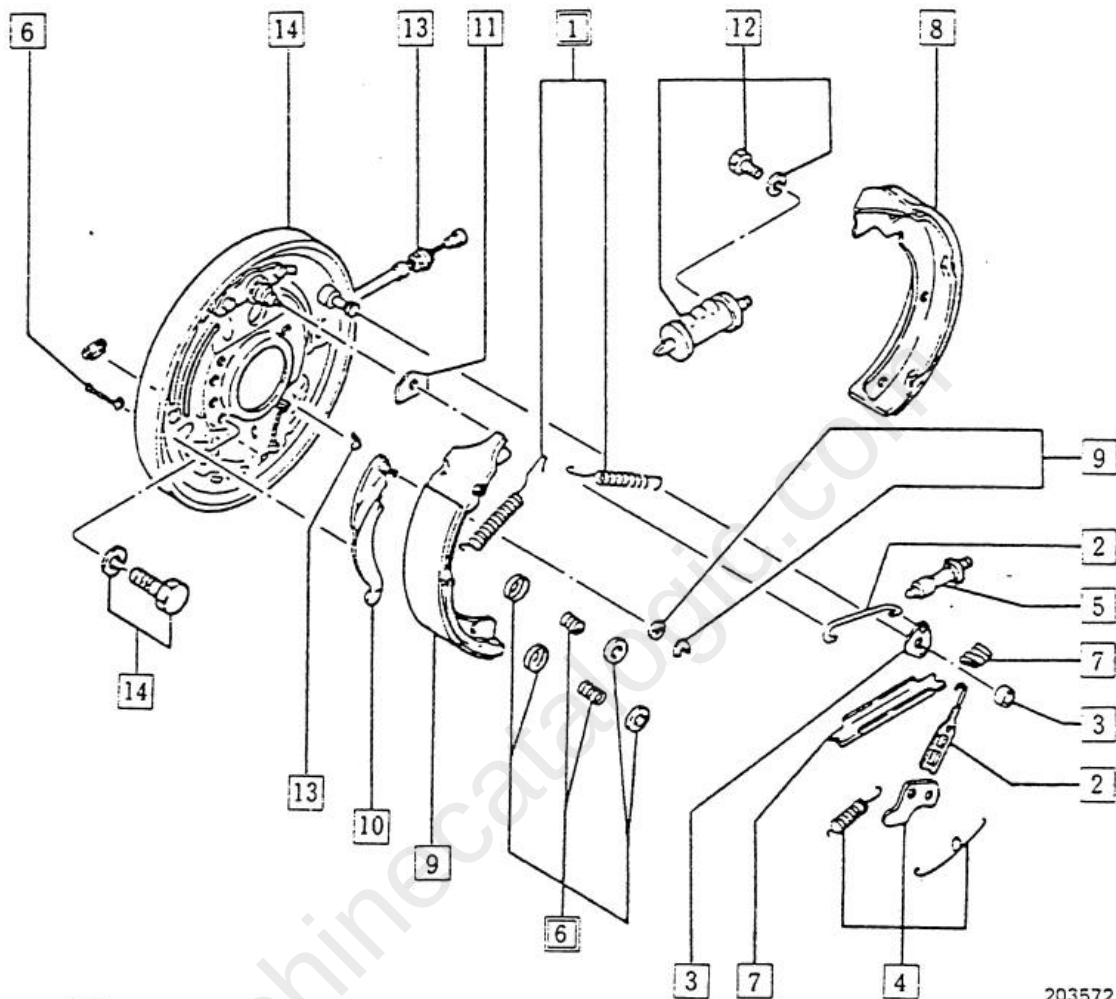
If the hub bearings have long been in service, it is advisable to aim at a value of preload in lower half of the specified range.

Preload for hub bearing	5 – 50 kgf-cm (0.4 – 3.6 lbf-ft)
Tightening torque for lock nut	16 kgf-m (115.7 lbf-ft)

TROUBLESHOOTING

Complaint	Possible cause		Remedy
Truck wanders	If steering gear is defective	a) Steering lock nut loose	Retighten.
		b) Spring weakened	Replace.
		c) Improper backlash	Readjust.
	Pipe or tube flattened, or restriction in oil line		Clean or replace.
Vibration or noise	a) Steering lock nut loose		Retighten.
	b) Air entrapped		Bleed.
	c) Power cylinder and socket end loose in installation		Repair or replace.
	d) Steering motor loose.		Retighten.
	e) Pump motor coupling is damaged		Disassemble check and replace.
Excessive steering wheel play	a) Backlash between ball screw and sector shaft out of adjustment.		Readjust .
	b) Sector shaft loose in installation		Replace.
	c) Drag link ball stud loose in socket		Repair or replace.
	d) Power cylinder securing bolts loose		Retighten.
	e) Air entrapped		Bleed.
Steering Motor Over Heats	a) No steering flow because of: clogged check valve		Clean or replace.
	b) Flattened or restricted oil line		Disassemble and check or replace.
	c) Worn or damaged : pump pump/motor coupling		Change oil.
	d) Oil viscosity incorrect		Check working conditions. Operator may be holding against relief valve for long periods of time.
	e) Overload		

Disassembly (FBC20, 25, 30)



203572

- 1** Spring
- 2** Link
- 3** Lever, retainer
- 4** Spring, lever
- 5** Screw
- 6** Cup, spring
- 7** Strut, spring
- 8** Shoe and lining (secondary)

- 9** Washer, retainer, shoe and lining (primary)
- 10** Lever
- 11** Plate
- 12** Wheel cylinder, bolt, washer
- 13** Parking brake cable, ring
- 14** Plate

Preparatory steps

1. Remove the front wheel.
2. Remove the wheel hub and brake drum.
3. Separate the parking brake lever and cable at the bottom of wheel brake.
4. Disconnect the brake pipe from the wheel brake assembly.

Tips for disassembly

For disassembly of **1** and **6**, refer to Disassembly (1 ton models). For inspection after disassembly, follow the procedure for 1 ton models.

Full Version Available

Mitsubishi FBC20 Forklift Service Manual (99719-74100)

Mitsubishi FBC20 Forklift service manual, covers traction motor, hydraulics, brakes, and wiring schematics. Downloadable PDF format.

VIEW THE FULL MANUAL

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