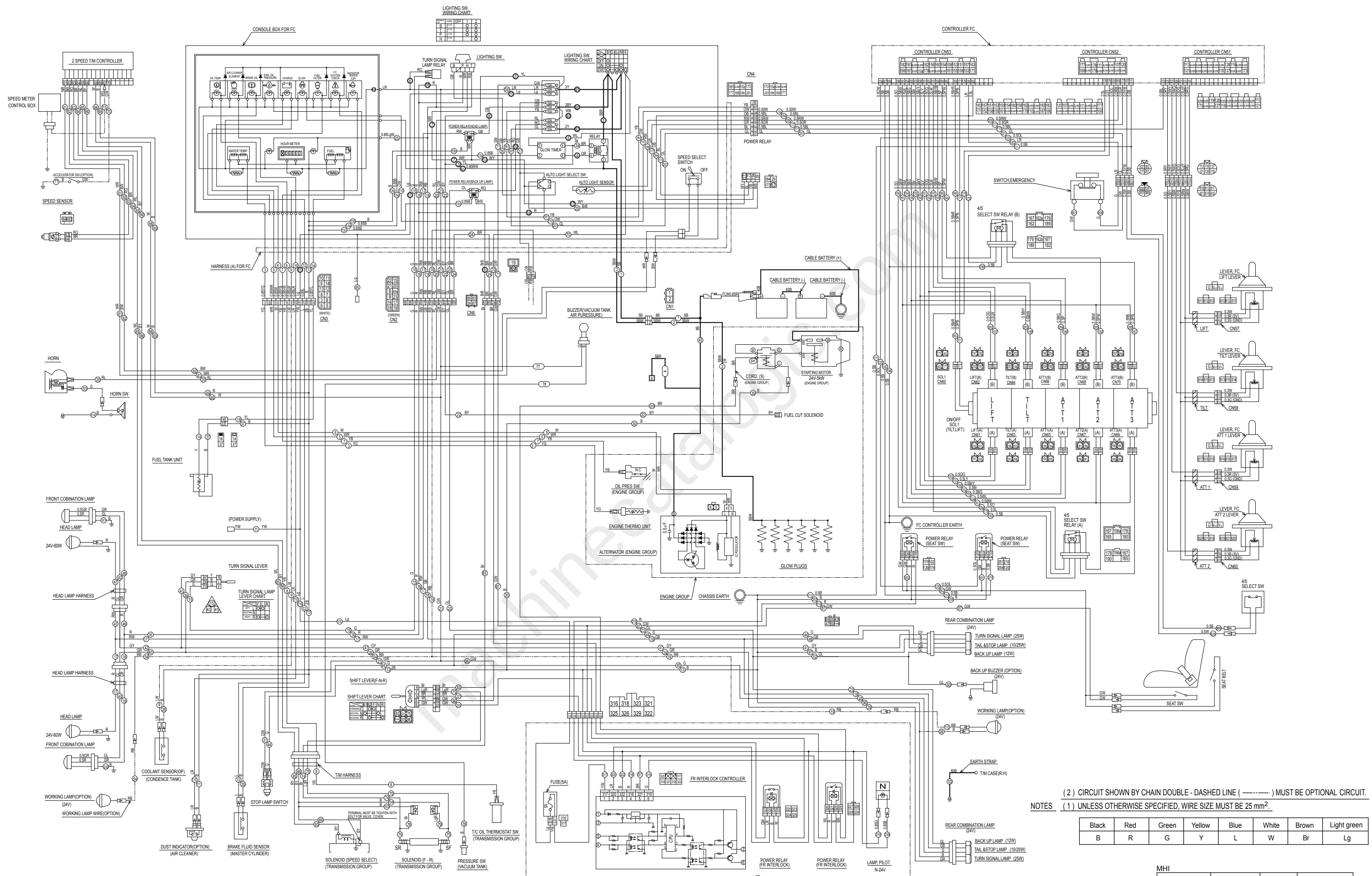




Service Manual

Chassis, Mast & Options

FD60	F20C-20001-up
FD70	F20C-70001-up



MHI			
Schematic No.	User for	Truck No.	Serial No.
ES009-57100	99709-57100	FD60	F20C-20001-up
		FD70	F20C-70001-up

3.2.2 Inspection and Repair

(1) Cylinder body

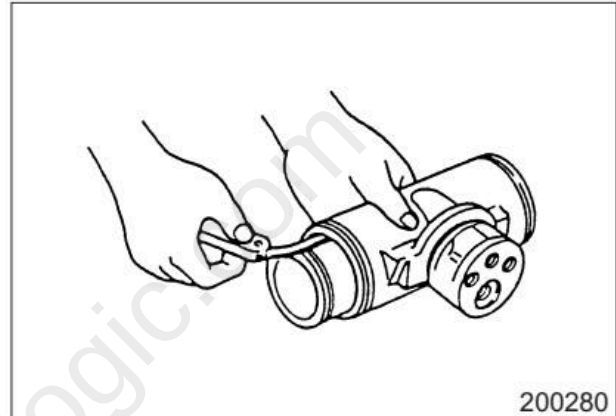
- (a) Check the bore of the cylinder body for rust, corrosion, and scoring.
- (b) Check the bleeder screw and oil pipe screw connections for damage.

(2) Piston

- (a) Check the sliding surfaces of the piston for rust or scoring.
- (b) Insert the piston into the cylinder body and measure the clearance between them.

If this clearance exceeds the service limit, replace the wheel cylinder assembly as a whole.

Clearance between cylinder body and piston	Standard value	0.020 to 0.105 mm (0.00079 to 0.00413 in.)
	Repair or service limit	0.15 mm (0.0059 in.)



(3) Piston cup

Check each cup for expansion or damage, and replace whichever has any defect, however minor.

Interference between piston cup and cylinder body	Standard value	1.85 mm (0.0728 in.)
	Repair or service limit	0.65 mm (0.0256 in.)

(4) Boot

Replace the boot if it has become hard or has otherwise aged and deteriorated. Replace it once per year.

3.2.3 Reassembly

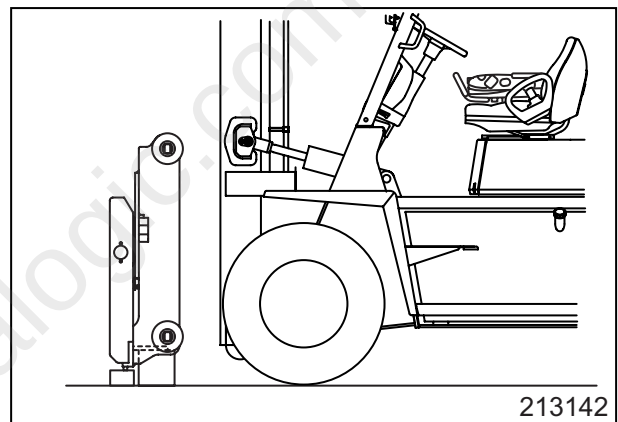
Reassembly should be performed in the sequence reverse to that of disassembly, but the following precautions must be observed.

- (1) Apply an even coat of brake fluid to the cylinder bore and piston cups.
- (2) Be careful not to damage the lips of the piston cups.
- (3) Also make sure the cups are correctly aligned.

- (4) Removing lift bracket
- (a) Remove the split pins from the lift chain, and remove the anchor nut and lock nut.
- (b) Remove the lift bracket with the following procedure.
- Bind the ends of the two lift chains with a rope, etc. Leave an extra 3 m (10 ft) length at the ends of the rope.
 - Bind the four hoses in the same manner with a rope, leaving an extra 3 m (10 ft) length at the ends of the rope.
 - Start the engine and raise the inner mast up to a position where the main rollers of the lift bracket come off. At this point, pull the lift chains and hoses taut by drawing the attached rope downward to prevent them from coming off from the chain wheels or hose reels.
 - When the inner masts reach to the position where the main rollers of the lift bracket can be removed, reverse the truck, and separate the lift bracket from the truck.



When the masts are rising, never touch any control levers except the lift lever.



4.2 Inspection and Repair

4.2.1 Lift bracket

- (1) Check the main rollers and side rollers for sticking, wear or cracks.
- (2) Check the welded part of the lift bracket for cracks.
- (3) Check the guide bars whether they are bent or deformed.

4.2.2 Fork

- (1) Check the fork for bend, misalignment of tips, and cracks.

4.2.3 Hose

- (1) Replace the hoses every two years.

(3) Suggestion for reassembly

- (a) When any of the hub drum assembly parts has been replaced, reassemble the hub drum assembly. Align the extension valve grooves in the brake drum and front wheel hub.

When installing the oil deflector, do not forget to apply gasket adhesive to the mating surfaces.

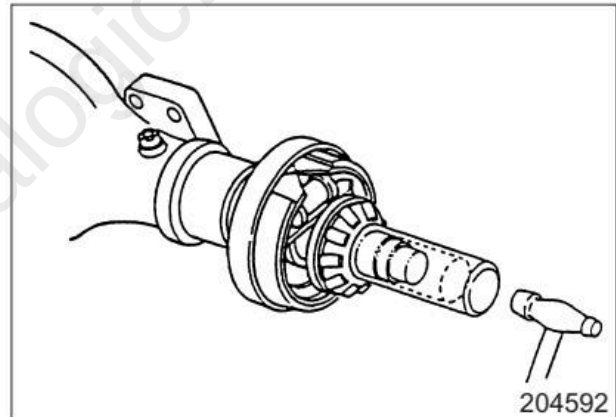
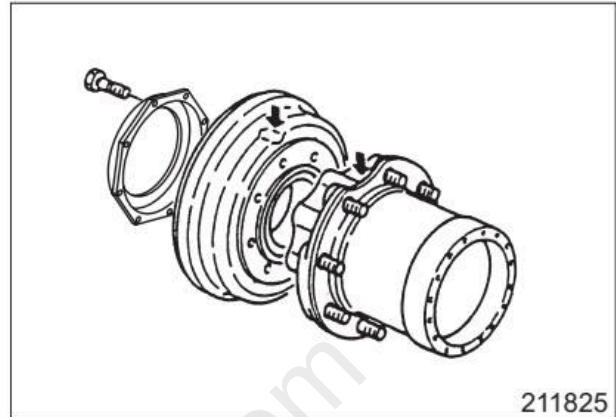
Tightening torque of brake drum nut	$245 \pm 24.5 \text{ N}\cdot\text{m}$ $(25.0 \pm 2.5 \text{ kgf}\cdot\text{m})$ $[181 \pm 18.1 \text{ lbf}\cdot\text{ft}]$
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NOTE

Replace all oil seals that have been installed in the front axle housing with new ones.

- (b) Reassembling tapered roller bearing (inner race)

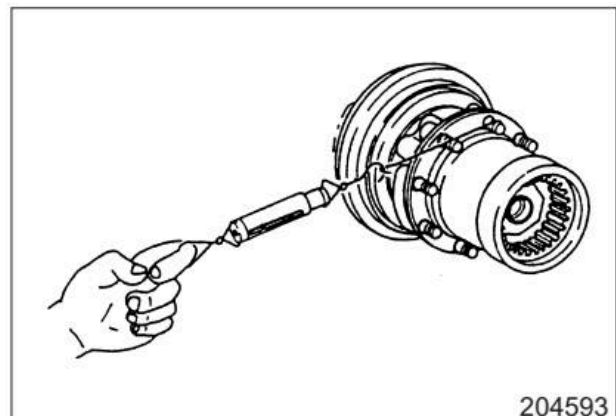
Using an installer, replace the tapered roller bearing inner race in position together with the seal retainer.



- (c) Wheel hub bearing preload adjustment

Hook a spring scale to one of the hub bolts and measure the preload. Adjust the preload by means of the nut that holds the ring gear. However, it is advisable to aim at a value of preload in the lower tolerance limit, if the bearings have long been in service.

Preload of hub bearing (force applied to the hub bolt in the tangential direction)	$147 \text{ to } 167 \text{ N}$ $(15 \text{ to } 17 \text{ kgf})$ $[33 \text{ to } 38 \text{ lbf}]$
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Mitsubishi FD70 Forklift Service Manual (99709-57100)

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