

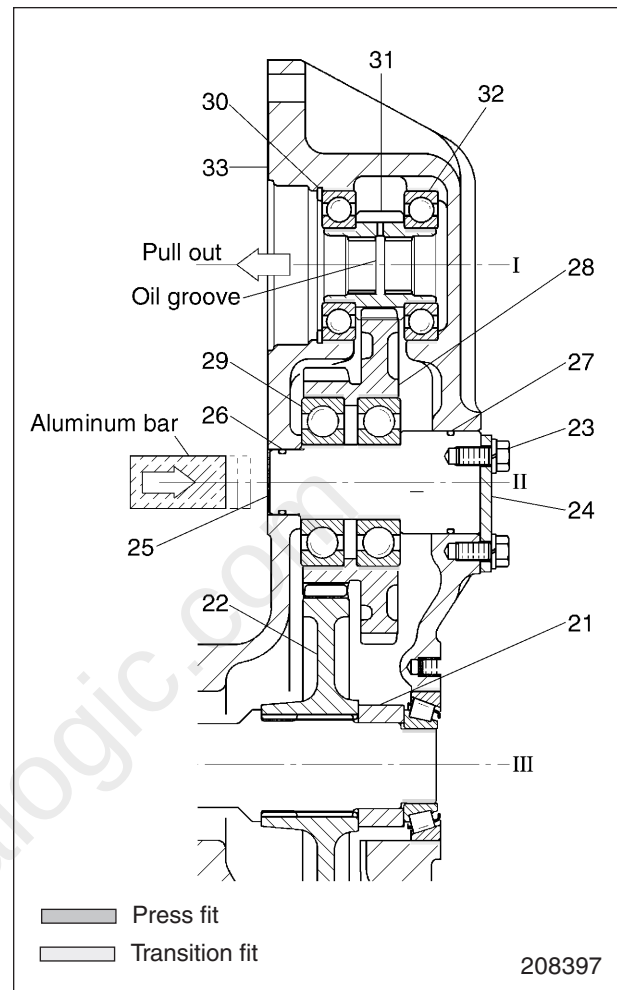


Service Manual

Chassis, Mast & Options

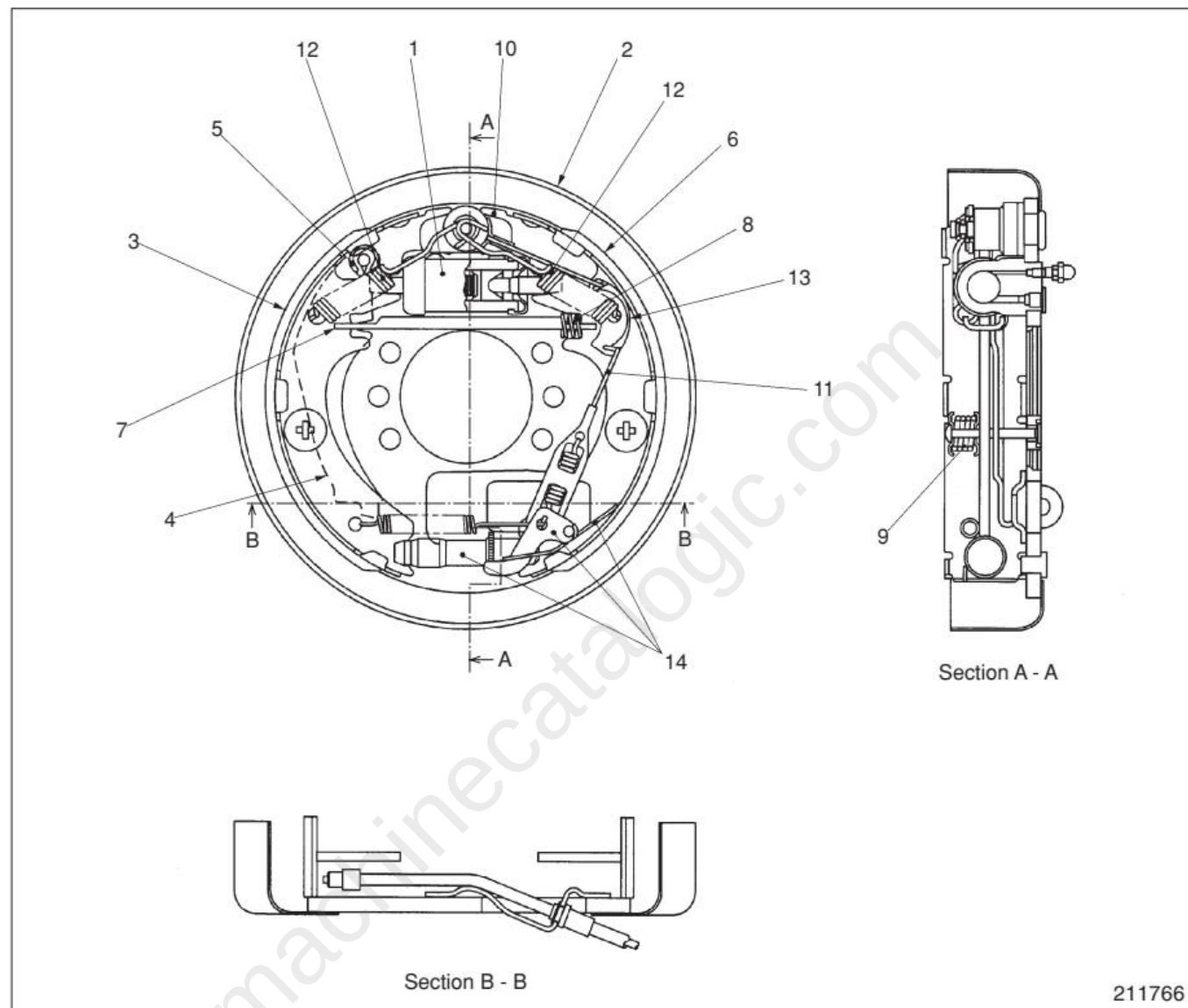
EP20K	ETB8B-00011-up
EP25K	ETB8B-50001-up
EP30K	ETB9B-00011-up
EP35K	ETB9B-50001-up

6. Remove the spacer 21, then remove the third gear 22. The third shaft 19 is fitted with the bearing inner race 20. The inner race 20 may be left fitted to the third shaft 19 if it is in a satisfactory condition for reuse. If it needs to be replaced, remove it using an appropriate puller.
7. Remove three bolts 23, then remove the lock plate 24. Apply an aluminum bar to the second shaft 25 from the drive motor fitted side, and hammer the bar lightly to force the second shaft 25 out of place with O-rings 26 and 27 fitted to it.
8. Remove the second gear 28 with the ball bearing 29 attached. The ball bearing 29 may be left fitted to the second gear 28 if it is in a satisfactory condition for reuse. If it needs to be replaced, remove it using an appropriate puller.
9. Remove the snap ring 30. Remove the input gear 31 fitted with the ball bearings 32 from the transfer case 33 using a slide hammer puller. The ball bearing 32 may be left fitted to the input gear 31 if it is in a satisfactory condition for reuse.



Reassembly

2 ton class and 2.5 ton class



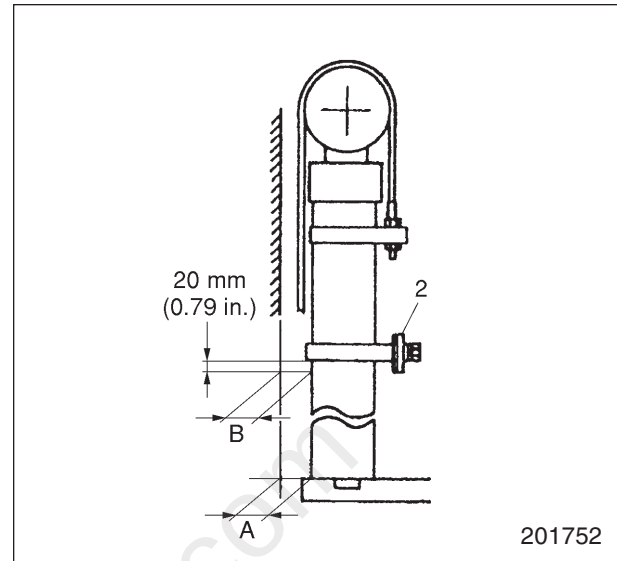
Sequence

- | | |
|-------------------------------|---|
| 1 Wheel cylinder | 9 Hold-down spring, Cup, Pin |
| 2 Backing plate | 10 Shoe guide plate |
| 3 Shoe and lining (primary) | 11 Fitting cable |
| 4 Parking brake lever | 12 Return spring |
| 5 Retainer, Washer | 13 Cable guide |
| 6 Shoe and lining (secondary) | 14 Adjusting lever, Adjusting screw, Adjusting spring |
| 7 Strut | |
| 8 Anti-rattle spring | |

3. Installing first lift cylinder

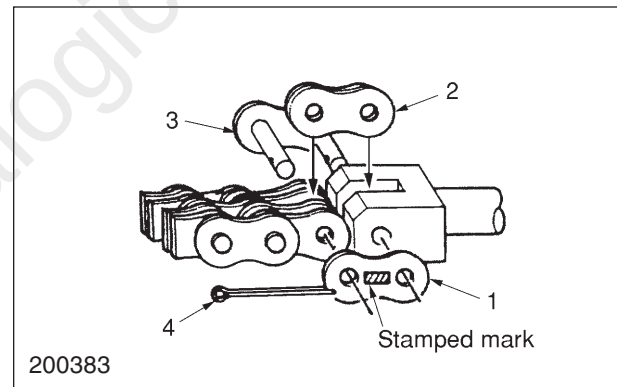
The first lift cylinder must be installed parallel to the mast when the lift cylinder rod is contracted.

Make sure the cylinder does not tilt forward. Using shims 2, adjust the backward inclination so that clearance at section B is 0 to +0.5 mm (0 to +0.02 in.) larger than clearance at section A.



4. Precaution for installation of chain anchor kit

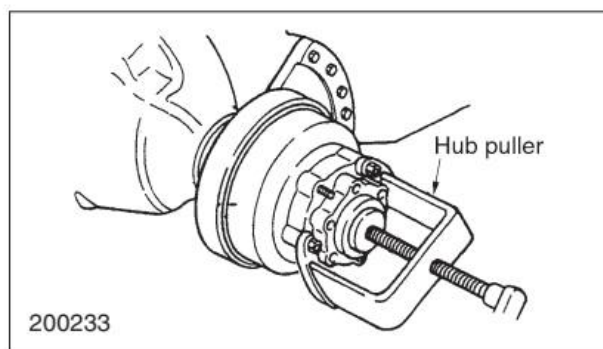
Be careful not to confuse the center plate with the link plate.



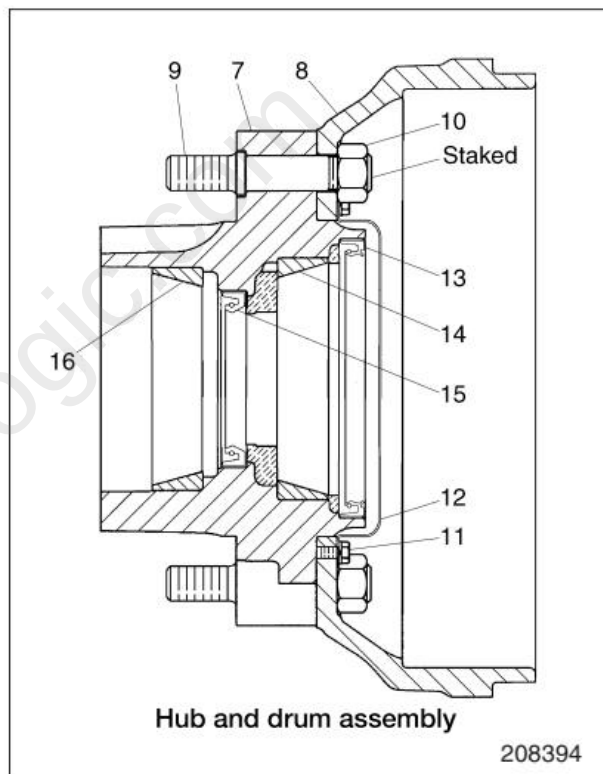
- 1 Link plate (stamped mark on surface)
- 2 Center plate (no stamped mark)
- 3 Link
- 4 Split pin

(4) 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 hub puller as shown in the illustration at right.



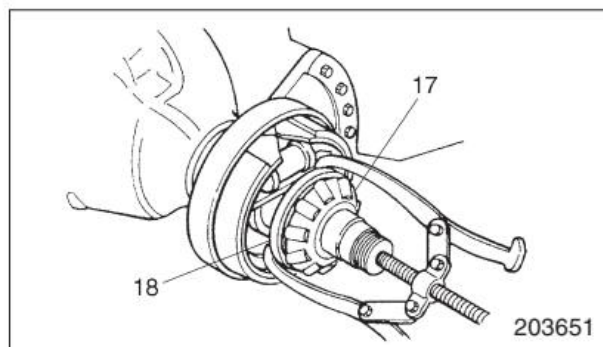
- Remove the oil deflector 12 if necessary.
- Do not remove the following parts from the inside of the wheel hub 7 unless they are faulty. When removing them, use a puller.
 - Taper roller bearing outer race 14 and 16
 - Oil seal 13 and 15
- Normally, it is not necessary to separate the wheel hub 7 and 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.)



3. Removal of seal retainer and bearing inner race

Do not remove the retainer 18 and the bearing inner race 17 left on the axle housing unless they are faulty.

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



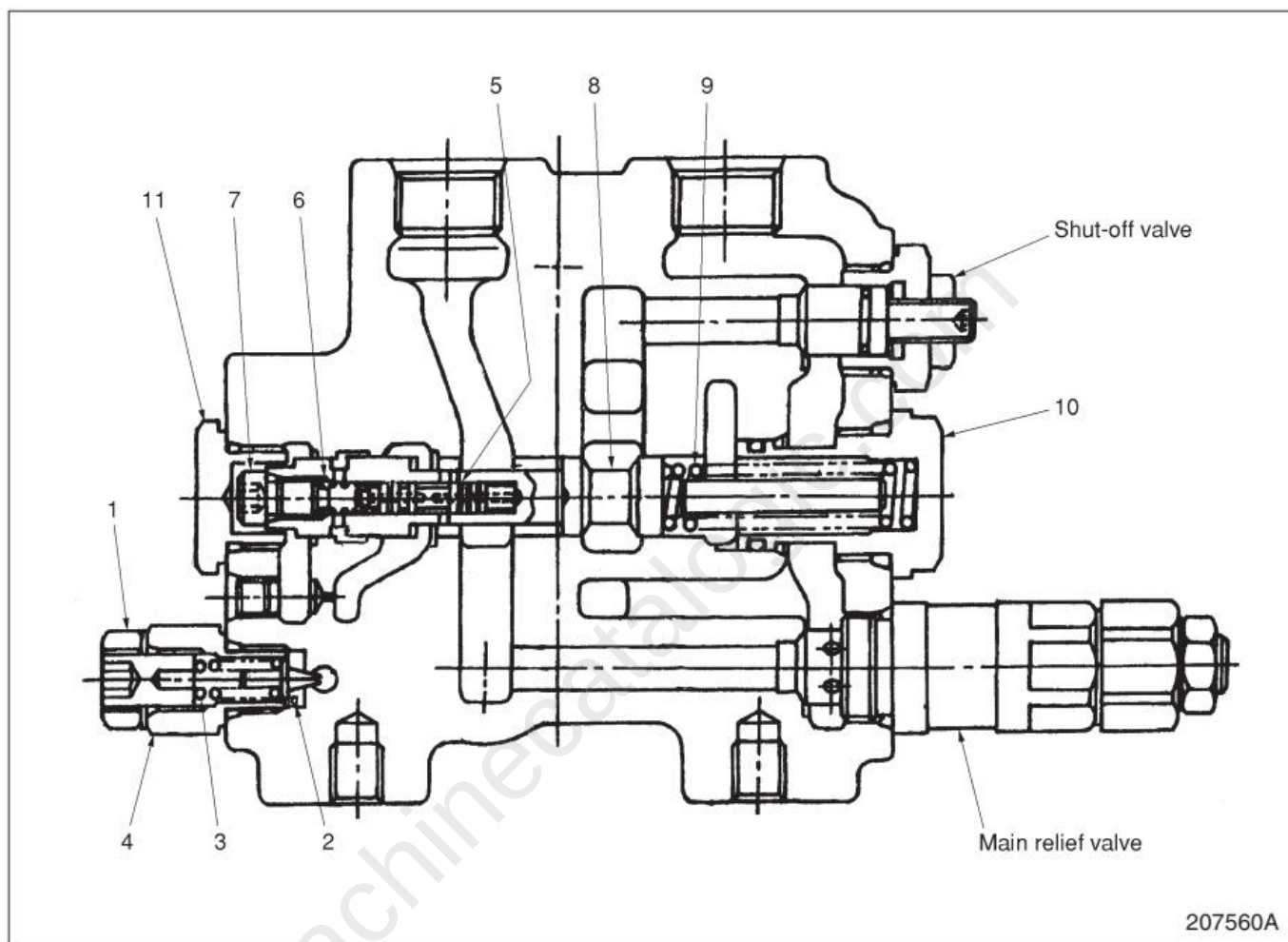
4. Removal of front axle support and/or front axle housing

These parts cannot be removed without dismounting the power train assembly from the vehicle body. Refer to "GROUP 3 POWER TRAIN" for the procedure.

Reassembly

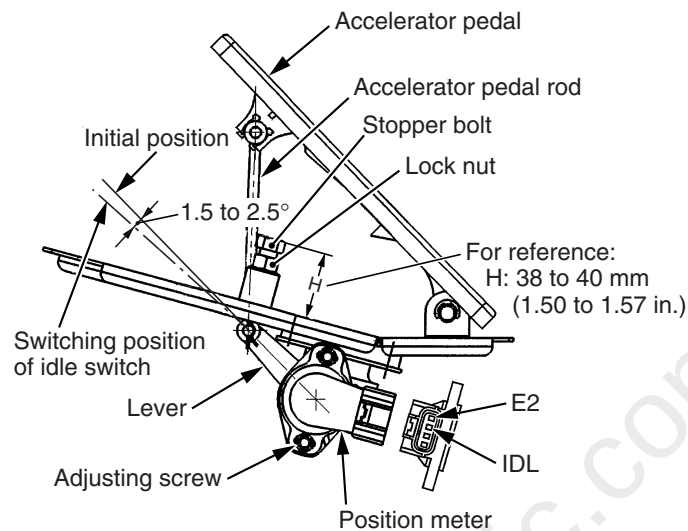
Reassembly of Sections

Reassembly of Inlet Section Assembly

**Sequence**

- | | | | |
|---|----------------------|----|-------------------|
| 1 | Adjuster kit, O-ring | 7 | Cap screw, O-ring |
| 2 | Pilot poppet | 8 | Spool |
| 3 | Spring | 9 | Spring |
| 4 | Plug, O-ring | 10 | Plug, O-ring |
| 5 | Valve | 11 | Plug, O-ring |
| 6 | Spring | | |

Accelerator Control



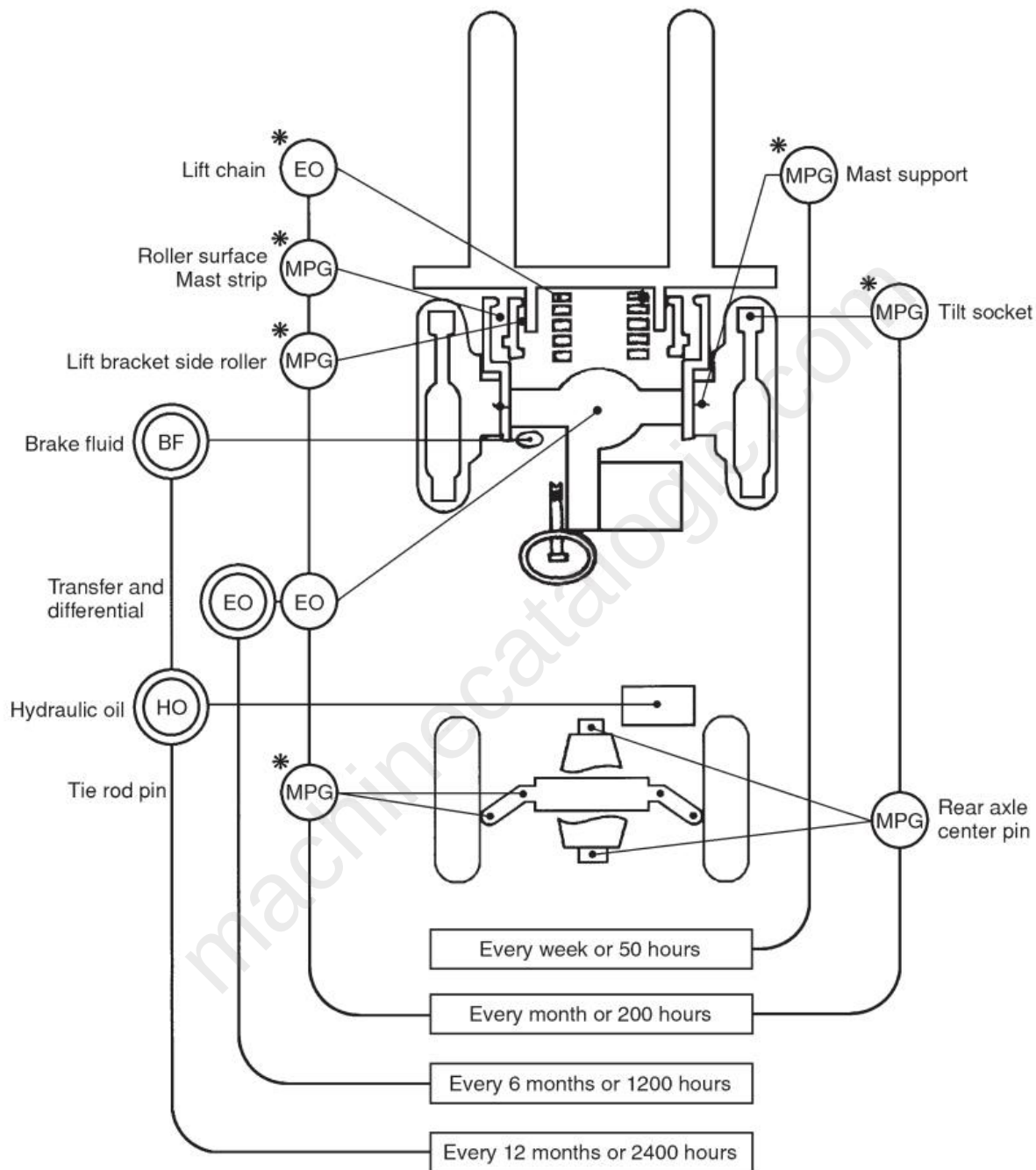
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Adjustment Procedures

1. Disconnect the battery plug.
2. Install the position meter by loosely mounting the adjusting screws.
3. Connect the accelerator pedal rod to the lever.
4. Check that there is no continuity between the E2 and IDL terminals.
5. Move the lever 1.5 to 2.5° from the initial position.
6. Check that there is continuity between the E2 and IDL terminals (the idle switch in the position meter is ON), then finally tighten the adjusting screws of the position meter.
7. Make sure the stopper bolt height H is approximately 38 to 40 mm (1.50 to 1.57 in.). Depress the accelerator pedal until it comes in contact with the stopper bolt. Adjust the height H of the stopper bolt until letter "15" flashes on the I/O diagnosis display.

Lubricating Standards

Lubrication Chart



○: Inspection, replenishment
 ⊙: Replacement
 *: Parts located on both sides of vehicle

MPG: Multipurpose grease
 BF: Brake fluid
 HO: Hydraulic oil
 EO: Engine oil

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Full Version Available

Caterpillar EP25K Forklift Service Manual (99759-6D100)

Caterpillar EP25K forklift service manual, covers wiring, hydraulics, drive unit, mast, and service data in PDF. Instant PDF download.

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