



Service Manual

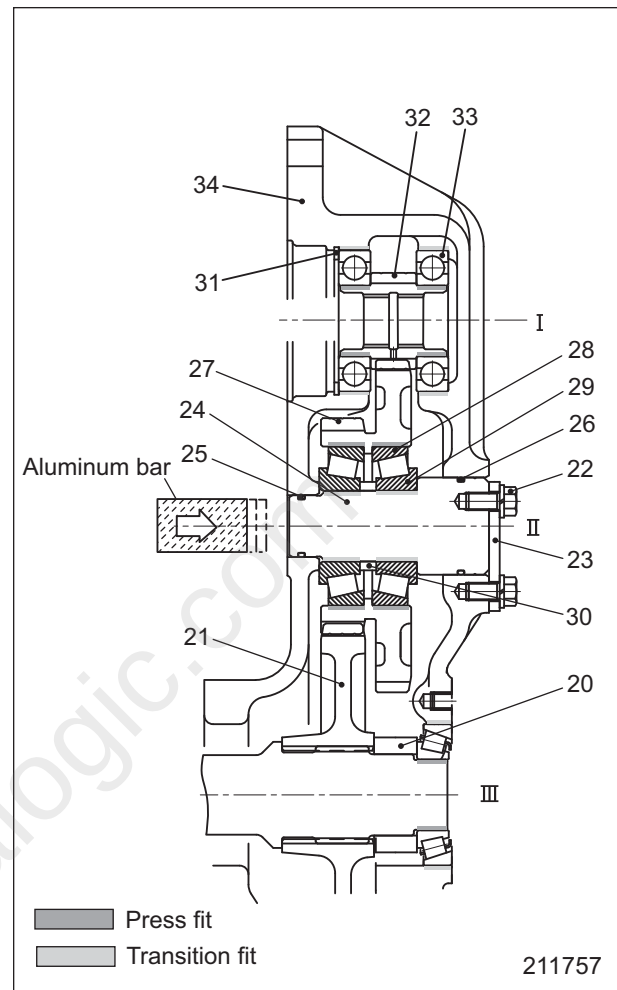
Chassis, Mast & Options

EP20K PAC	ETB8C-00011-up
EP25K PAC	ETB8C-50001-up
EP30K PAC	ETB9C-00011-up
EP35K PAC	ETB9C-50001-up

6. Remove the spacer 20, then remove the third gear 21. The third shaft 18 is fitted with the bearing inner race 19. The inner race 19 may be left fitted to the third shaft 18 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 22, then remove the lock plate 23. Apply an aluminum bar to the second shaft 24 from the traction fitted side and lightly strike it with a hammer to force the second shaft 24 out of place with O-rings 25 and 26 fitted to it.
8. Remove the second gear 27 with the bearing outer race 28 attached. The bearing outer race 28 may be left fitted to the second gear 27 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 31. Remove the input gear 32 fitted with the ball bearings 33 from the transfer case 34 using a slide hammer puller. The ball bearing 33 may be left fitted to the input gear 32 if it is in a satisfactory condition for reuse.

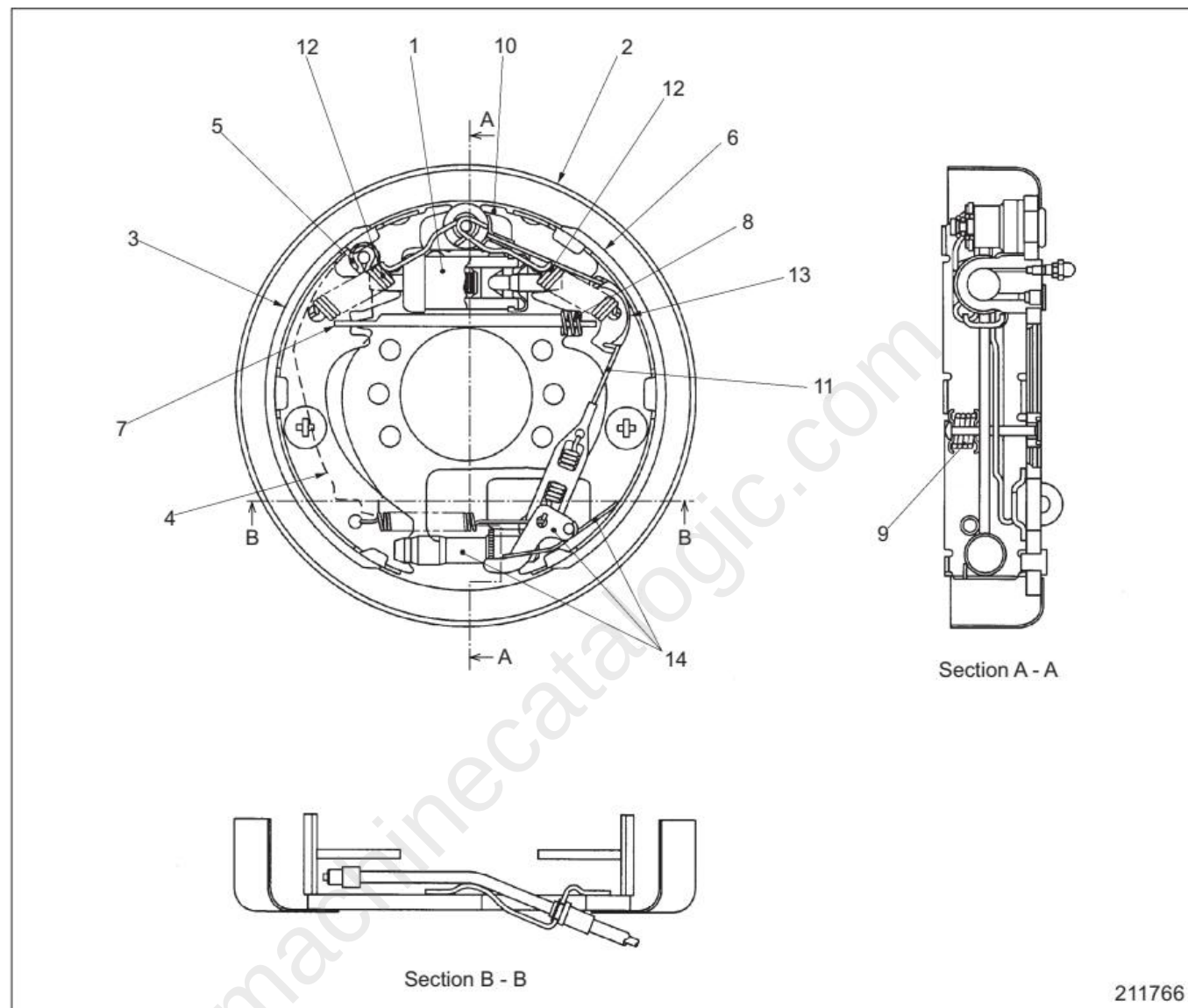
NOTE

The bearing outer race 28, bearing inner race 29 and spacer 30 are adjusted in their combination. Never change their combination.



Reassembly

2 ton class and 2.5 ton class



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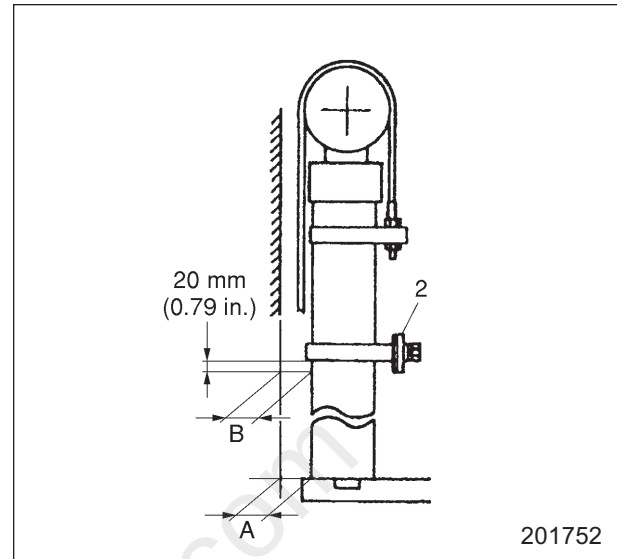
Sequence

- | | |
|-------------------------------|---|
| 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

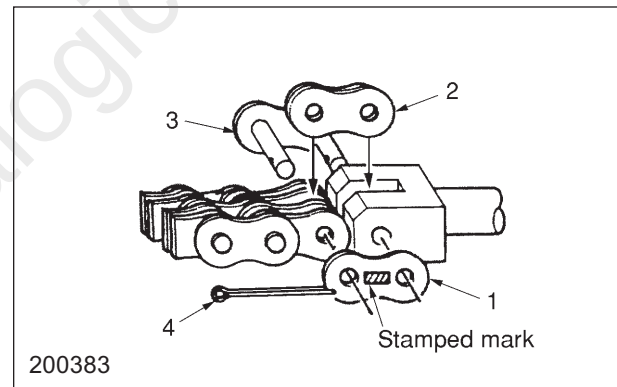
The first lift cylinder must be installed parallel to the mast when the lift cylinder rod is contracted.

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

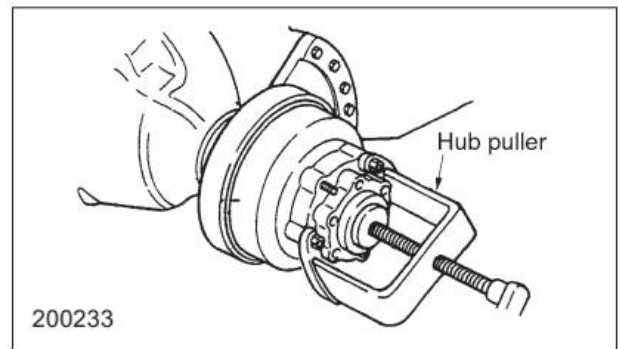
Be careful not to confuse the center plate with the link plate.



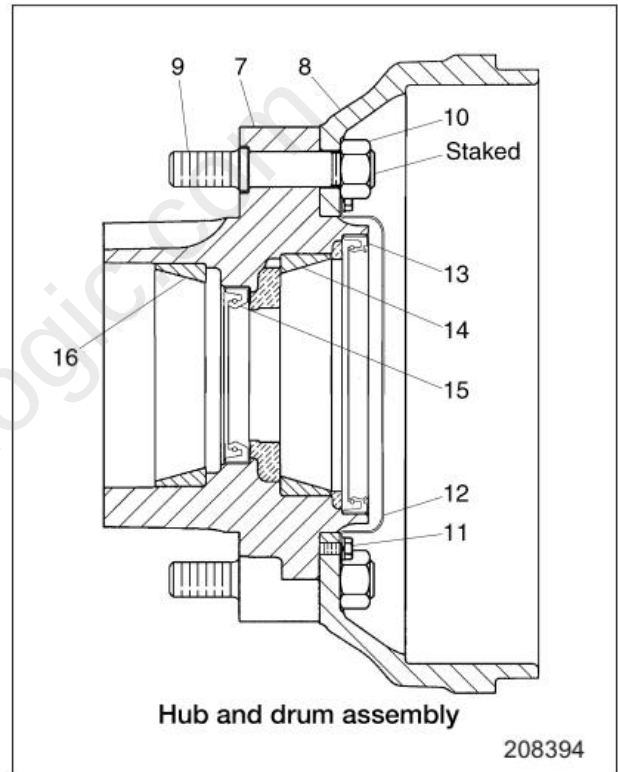
- 1 Link plate (stamped mark on surface)
- 2 Center plate (no stamped mark)
- 3 Link
- 4 Split pin

(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.



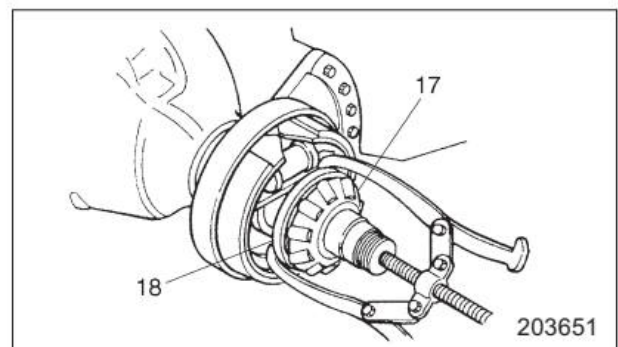
- Remove the oil deflector 12 if necessary.
- Do not remove the following parts from the inside of the wheel hub 7 unless they are faulty. When removing them, use a puller.
 - Taper roller bearing outer race 14 and 16
 - Oil seal 13 and 15
- Normally, it is not necessary to separate the wheel hub 7 and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

Full Version Available

Caterpillar EP35K PAC Forklift Service Manual (99759-6A110)

Caterpillar EP35K PAC forklift service manual, covers hydraulics, mast, wiring, drive systems, and service data. Searchable PDF download.

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