

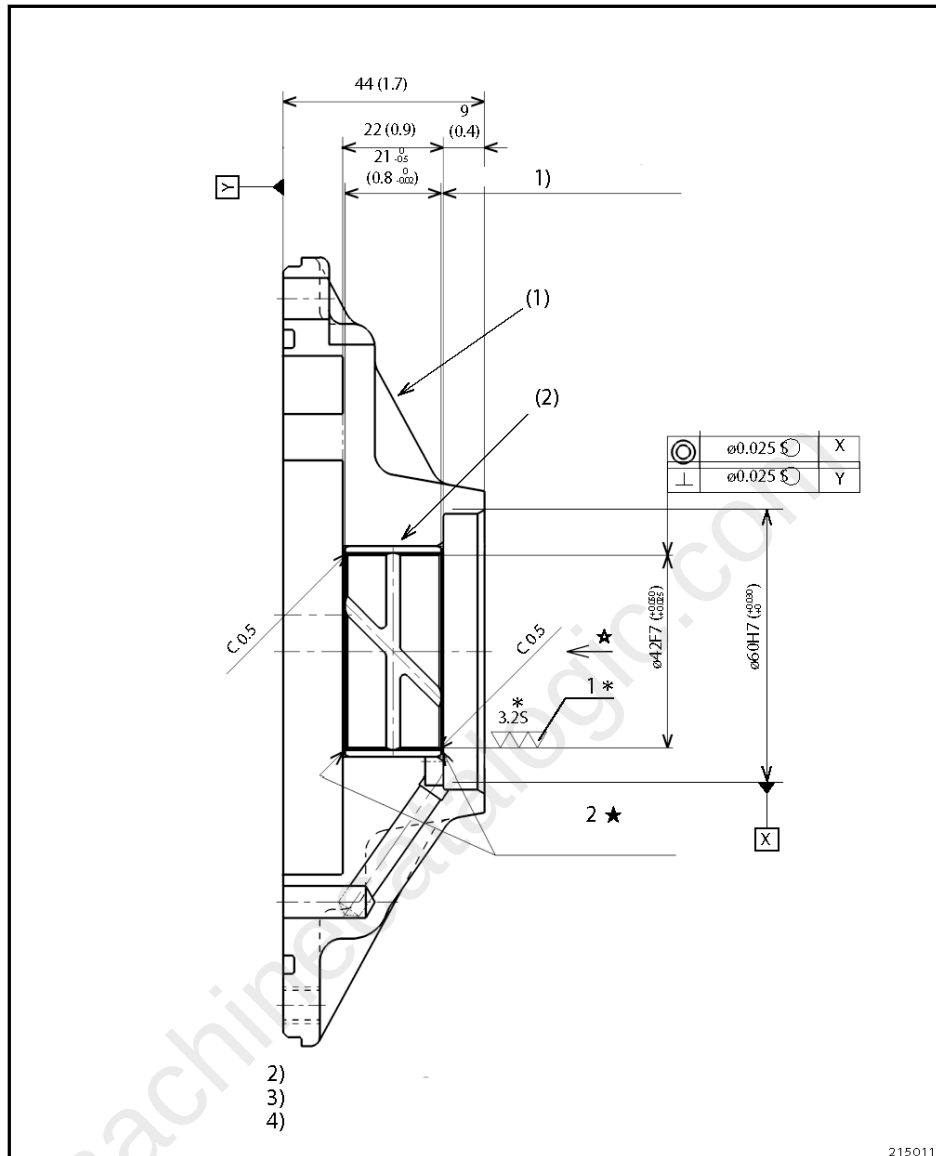


Service Manual

Chassis & Mast

MC/FC

2P3000	AT34-30121-49999	GP15NM	AT34-T0100-T9999
2P3500	AT34-30121-49999	GP18NM	AT34-W0100-W9999
2PC4000	AT34-80121-99999	GP20CNM	AT34-P0100-P9999
2P4000	AT35-30121-49999	GP20NM	AT17D-P0100-P9999
2P5000	AT35-30121-49999	GP25NM	AT17D-T0100-T9999
2P5500	AT36-30121-49999	GP25NM-HP	AT35-T0100-T9999
2P6000	AT13F-30121-49999	GP30NM	AT13F-P0100-P9999
2P6500	AT13F-80121-99999	GP35NM	AT13F-T0100-T9999
2P7000	AT13F-80121-99999		
2PD4000	AT18C-30121-49999		
2PD5000	AT18C-30121-49999		
2PD5500	AT37-30121-49999		
2PD6000	AT14E-30121-49999		
2PD6500	AT14E-80121-99999		
2PD7000	AT14E-80121-99999		



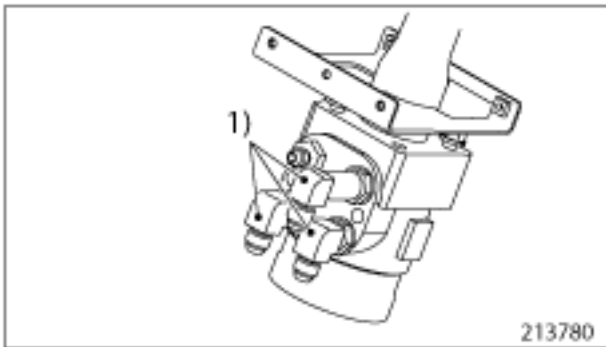
UNIT: MM (IN.)

- (1) PUMP BODY
 - (2) BUSHING
 - 1 BUFFING
 - 2 SYMBOL (SEE NOTE (2))
- 1) POSITION OF BUSHING = 0 TO 1.0 MM (0 TO 0.04 IN.)
 - 2) AFTER PRESSING (2) BUSHING, THE DIMENSION OF * MARK MUST BE MACHINED (BUFFING).
 - 3) (2) BUSHING MUST NOT PROTRUDE ON BOTH ENDS OF MARK.
 - 4) PRESS (2) BUSHING FROM THE DIRECTION OF * MARK.

10.2.3.2 INSTALLATION

To install the steering valve, follow the removal sequence in reverse, while following the instructions below:

- (1) Apply grease on the serrated area on the lower part of the steering shaft.
- (2) Tighten the mounting bolt to the specified torque.
- (3) Be careful about the orientation when installing the elbow on the steering valve. Tighten it to the specified torque.

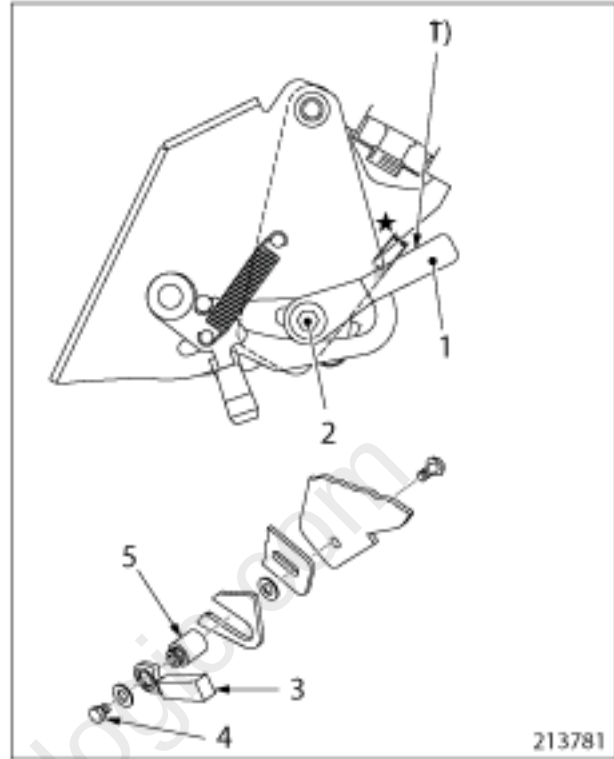


- 1) FACE THE ELBOW RIGHT DOWNWARD TO INSTALL.
TIGHTENING TORQUE OF NUT:
34 TO 39 N·M (3.47 TO 3.98 KGF·M) [25.1 TO 28.8 LBF·FT]

10.2.4 TILT LOCK LEVER

10.2.4.1 DISASSEMBLY

- (1) Put alignment marks on the tilt lock lever and the nut (B) for proper installation at assembly.
- (2) Remove the bolt (A) and then, remove the tilt lock lever.



- 1) TOP FACE OF LEVER
1. TILT LOCK LEVER
2. LEVER MOUNTING BOLT
3. TILT LOCK LEVER
4. BOLT (A)
5. NUT (B)

10.2.4.2 ASSEMBLY

If the alignment marks have disappeared, or the lever is being replaced with a new lever, install the lever by seeing the following steps: (The illustration shows the relation of the parts when the tilt position is in the NEUTRAL and the column lock lever is locked.)

- (1) Tighten the nut B to the tightening torque of 11 to 15 N·m (1.1 to 1.5 kgf·m) [8.1 to 11.1 lbf·ft]. (This represents a lever-locked condition.)
- (2) Select the optimal position for the tilt lock lever in a locked condition, and fit the tilt lock lever into the serrated section of nut B. The optimal position is where the star-marked notch section of the bracket intersects with the top face of the lever.

5.3.2 How to adjust the screen contrast

Turn the key switch to the ON position. Screen contrast can be adjusted while the engine is running.

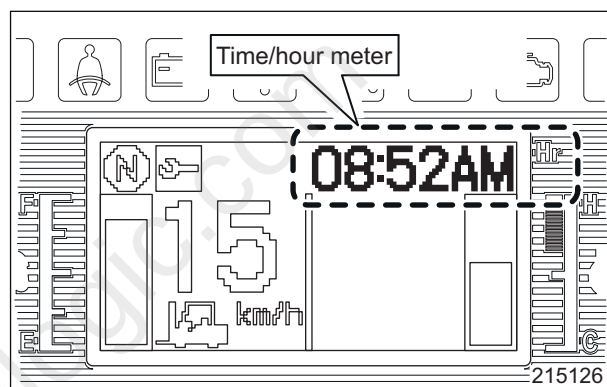
Button	Press	Display
△	Short	Light → Dark
▽		Dark → Light

Note: The screen becomes dark when the temperature inside the instrument panel (ambient temperature) is high, and the screen becomes light when the temperature is low.

5.3.3 How to display the clock time

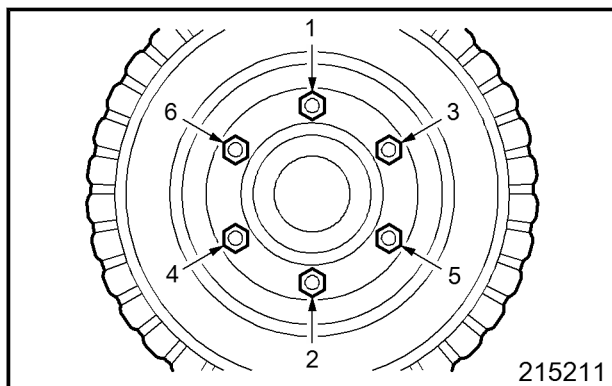
Turn the key switch to the ON position. This operation is available while the engine is running. With a short press of  button, the display changes between the hour meter and the clock time.

Button	Press	Display
	Short	Hour meter ↔ clock



Tightening torque	1 ton class	2 to 3 ton class
Wheel nuts	141.2 to 172.6 (14.398 to 17.6) [104.14 to 127.3]	210.1 to 256.7 (21.424 to 26.176) [154.959 to 189.329]

Unit: N·m (kgf·m) [lbf·ft]



8.2.1.3 REMOVAL OF AXLE ASSEMBLY

Sequence

- (1) Wheel nut (6 places)
- (2) Rear wheel
- (3) Hose or pipe
- (4) Bolt
- (5) Rear axle (with cylinder)
- (6) Bushing support

Suggestions for Removal

- (1) See the description of "Removal of rear wheels, Page 8-6" to remove the rear wheels.
- (2) Raise the lift truck with a jack and support the bottom of both sides of the frame with jack stands. (Approximately 500 mm (19.7 in.) is enough for the distance between the bottom of the frame and the ground.)
- (3) Disconnect the hose or pipe **3** from the cylinder elbow (2 places). Disconnect the tire sensor harness from the connector.

- (4) Place a garage jack under the axle to support the axle.
- (5) Remove rear axle mounting bolts.
- (6) Lower the garage jack and pull out the rear axle (with cylinder) from the lift truck.

Inspections after Disassembly

- (1) Bushing support
- (2) Replace, if it is damaged or worn.
- (3) Place the mating surface downward to replace.
- (4) Apply a sufficient amount of grease to assemble.

8.2.1.4 INSTALLING AXLE ASSEMBLY

To install, follow the removal sequence in reverse. Also follow the instructions listed below:

- (1) Adjust the total play (front and rear) to be 0.8 mm (0.031 in.) or less.

CAUTION

Place the shims equally.

- (2) Apply grease (AUTOLEX A or equivalent) through grease nipple.
- (3) Tighten bolts **4** to the specified torque.

Full Version Available

Caterpillar GP30NM Forklift Service Manual (99719-8M110)

Caterpillar GP30NM Forklift service manual, covers hydraulics, mast, drive unit, wiring, and engine service data in PDF. Instant PDF download.

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