



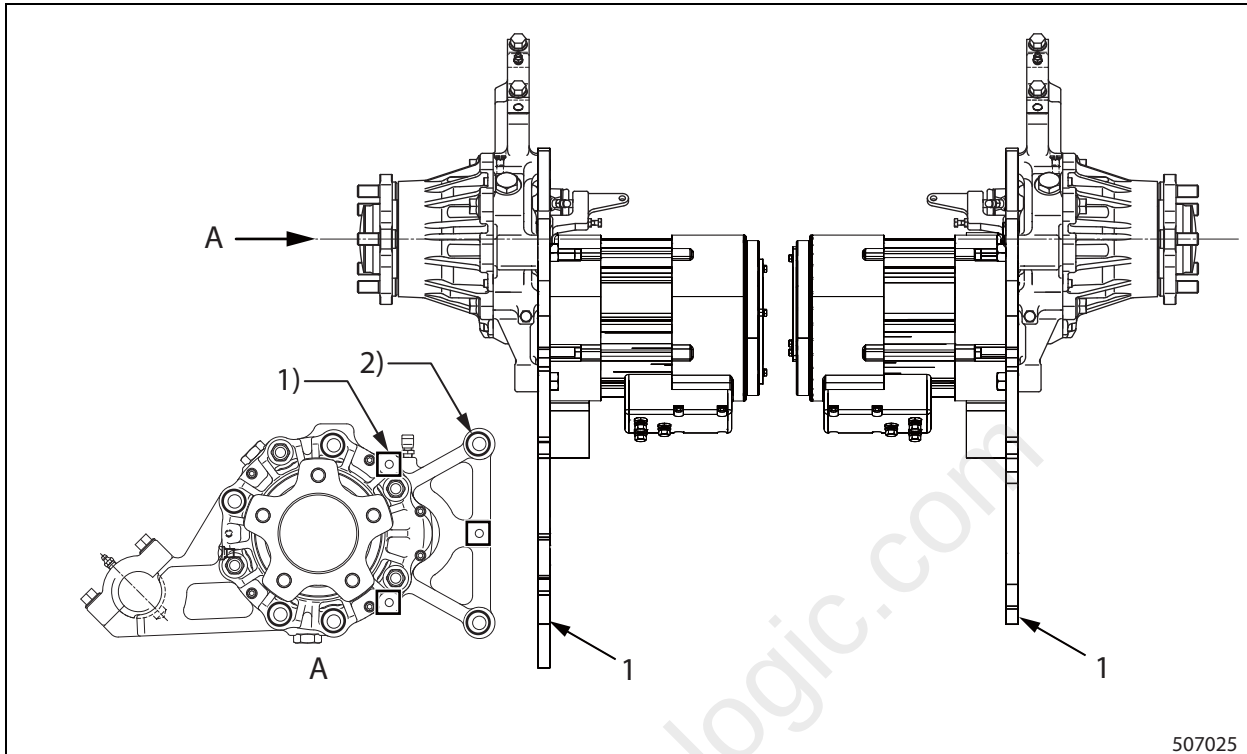
Service Manual

Chassis & Mast

FC/MC

EP13PNT	ETB21-00011-01999 / ETB21-02001-49999
EP15PNT	ETB21-50011-51999 / ETB21-52001-99999
EP16CPNT	ETB22-00011-01999 / ETB22-02001-49999
EP18CPNT	ETB22-50011-51999 / ETB22-52001-99999
EP16PNT	ETB23-00011-01999 / ETB23-02001-49999
EP18PNT	ETB23-50011-51999 / ETB23-52001-99999
EP20PNT	ETB24-00011-01999 / ETB24-02001-99999

3. Removing Transfer Assemblies, Traction Motors

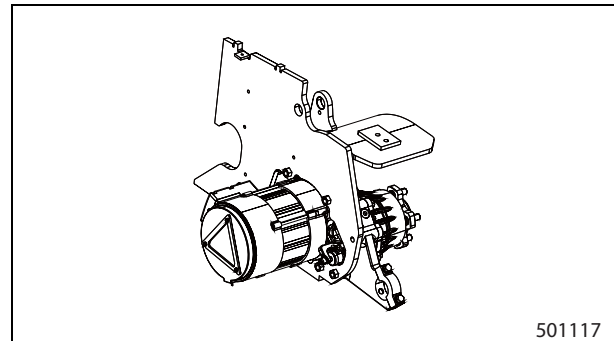


1. Frame

1) Motor mounting bolts, 3 places

2) Mounting bolt to the body, 6 places

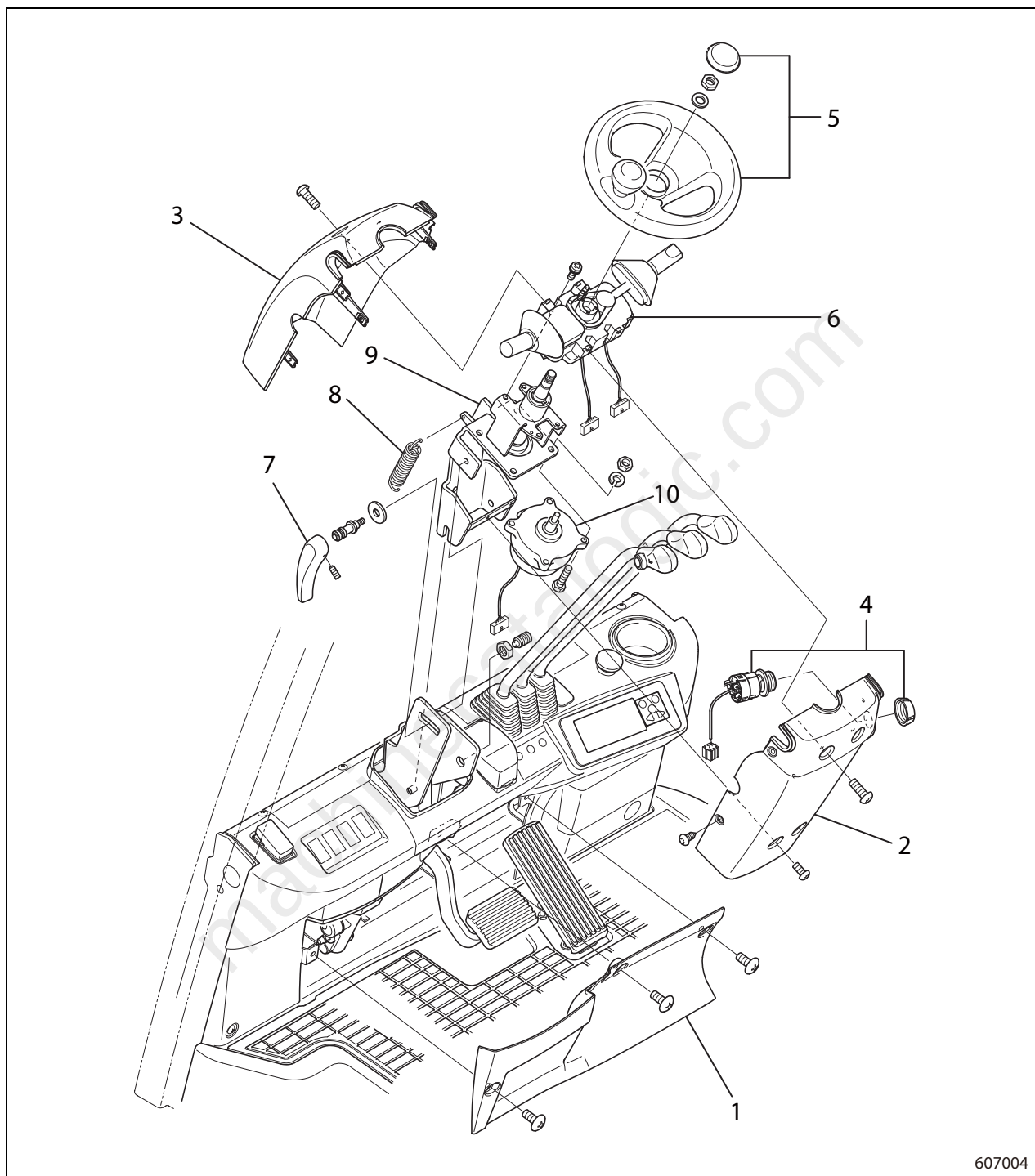
- (1) Remove the mast assembly. See "MAST AND FORKS".
- (2) Remove all the electric wirings, solenoid brake cable, and hydraulic lines connected to the motor and transfer.
- (3) Hitch a sling to lift the motor. Wind the sling to prevent it from falling.
- (4) Place a jack under the transfer, and support the transfer with the jack.
- (5) Loosen the bolts that secure the transfer to the frame, and slightly pull the transfer with the jack away from the frame.
After making sure that the transfer can be pulled out horizontally, remove the bolts that secure the transfer to the frame, and remove the transfer with the jack from the frame.



Item	Value
Total weight of transfer, Traction motor	115 kg (253.5 lb)

3. Removing Steering Linkage Assembly

3.1 Removal Sequence



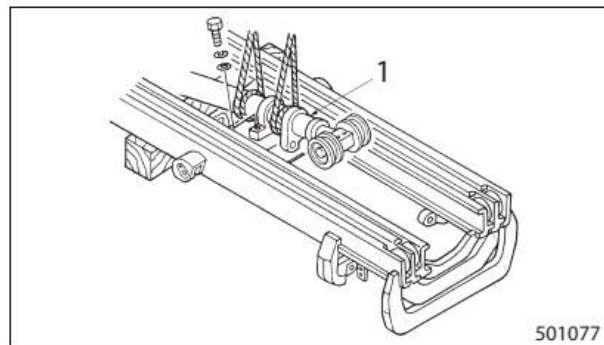
607004

- | | |
|----------------------------|-----------------------------|
| 1. Kick panel | 6. Combination switch |
| 2. Column panel (1) | 7. Handle |
| 3. Column panel (2) | 8. Spring |
| 4. Key switch | 9. Steering column assembly |
| 5. Steering wheel assembly | 10. Steering unit |

9.2 Suggestions for Disassembly

Removing first lift cylinder

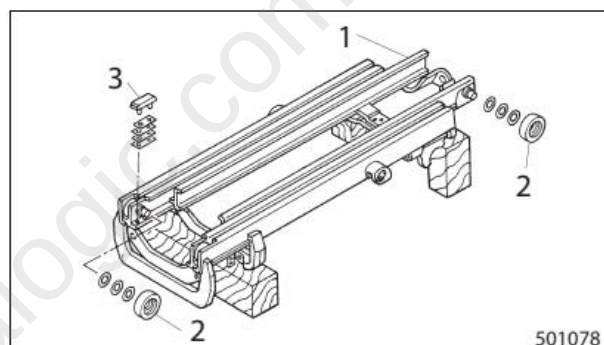
- (1) Remove retaining bolts from the first lift cylinder.
- (2) Hitch slings on lift cylinder, and slowly remove the cylinder.
Use two slings. Wind or tie slings securely to prevent from slipping.



1. First lift cylinder

Removing inner mast and main rollers

Lower the inner mast so that the main rollers can be removed. Remove main rollers and mast strips.

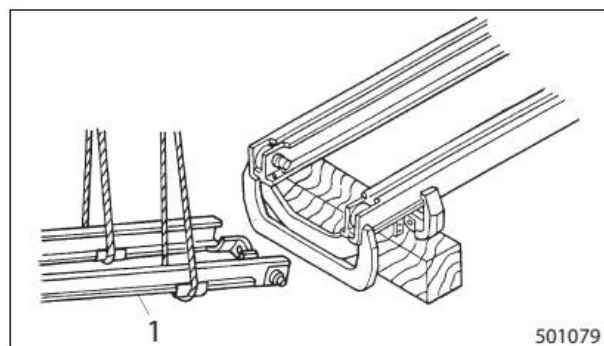


1. Inner mast
2. Main roller

3. Mast strip

Removing inner mast

Using slings, lift and remove the inner mast, steering it to pass over the roller shaft sections of the middle mast.



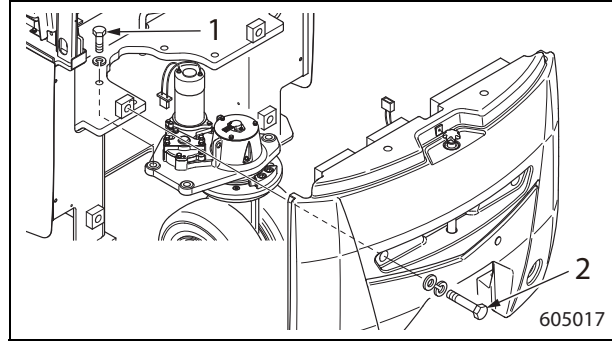
1. Inner mast

5. Installing Rear Axle

Installation

Follow the removal sequence in reverse.
During installation, conduct the following.

- Tighten the rear axle assembly mounting bolts to the specified torque.
- Tighten the counterweight mounting bolts to the specified torque.



Item		Bolt tightening torque
1	Rear axle assembly mounting bolts	162 to 198 N·m (17 to 21 kgf·m) [119.5 to 146 lbf·ft]
2	Counterweight mounting bolts	320 N·m (32.63 kgf·m) [236 lbf·ft]

Full Version Available

Caterpillar EP20PNT Forklift Service Manual (99759-6N120)

Caterpillar EP20PNT forklift service manual, covers drive, hydraulics, wiring, mast, and diagnostics. Searchable PDF download.

[VIEW THE FULL MANUAL](https://machinecatalogic.com/caterpillar-ep20pnt-forklift-service-manual-99759-6n120/)

<https://machinecatalogic.com/caterpillar-ep20pnt-forklift-service-manual-99759-6n120/>