



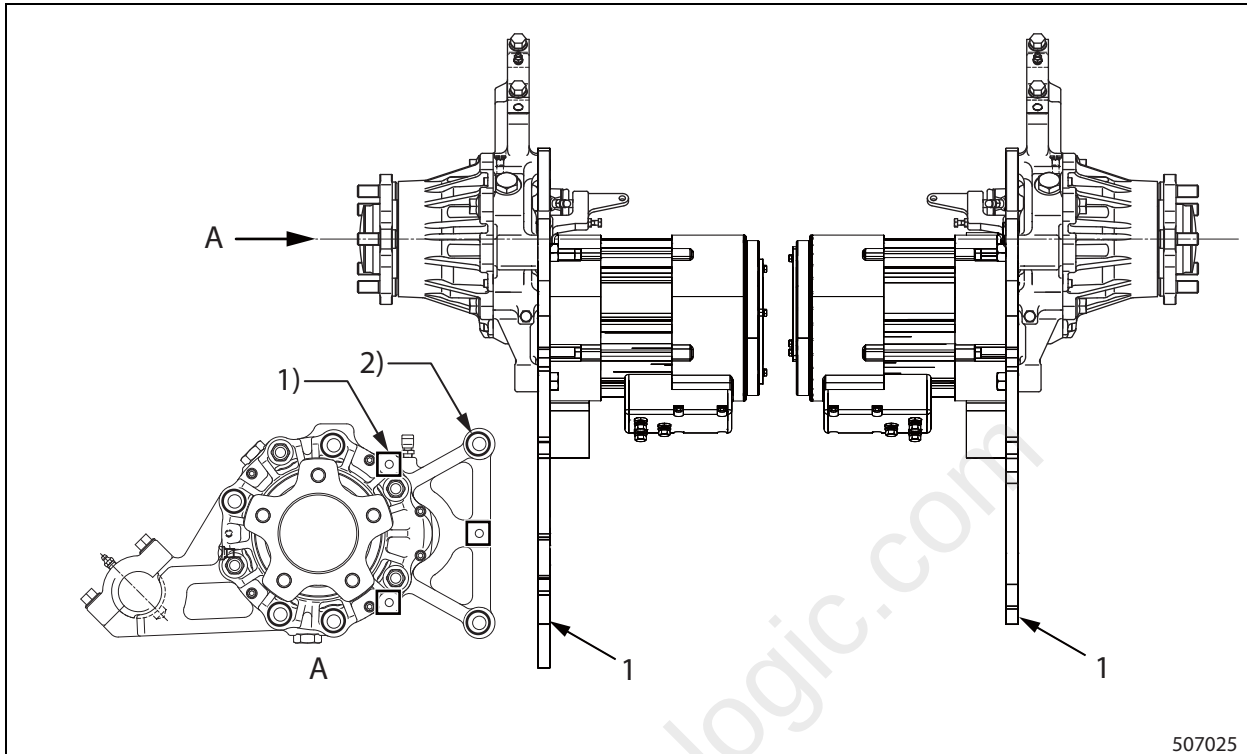
# Service Manual

## Chassis & Mast

FC/MC

|          |                                       |
|----------|---------------------------------------|
| FB13PNT  | EFB21-00011-01999 / EFB21-02001-49999 |
| FB15PNT  | EFB21-50011-51999 / EFB21-52001-99999 |
| FB16CPNT | EFB22-00011-01999 / EFB22-02001-49999 |
| FB18CPNT | EFB22-50011-51999 / EFB22-52001-99999 |
| FB16PNT  | EFB23-00011-01999 / EFB23-02001-49999 |
| FB18PNT  | EFB23-50011-51999 / EFB23-52001-99999 |
| FB20PNT  | EFB24-00011-01999 / EFB24-02001-99999 |

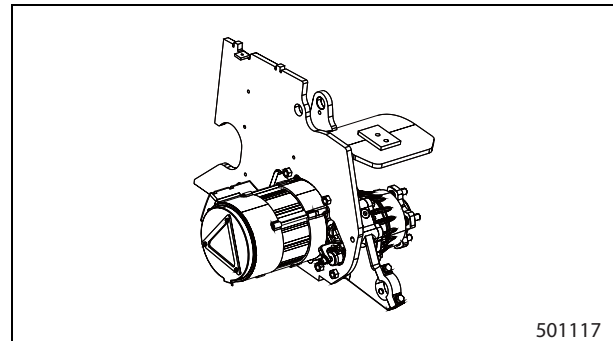
### 3. Removing Transfer Assemblies, Traction Motors



1. Frame

- 1) Motor mounting bolts, 3 places
- 2) Mounting bolt to the body, 6 places

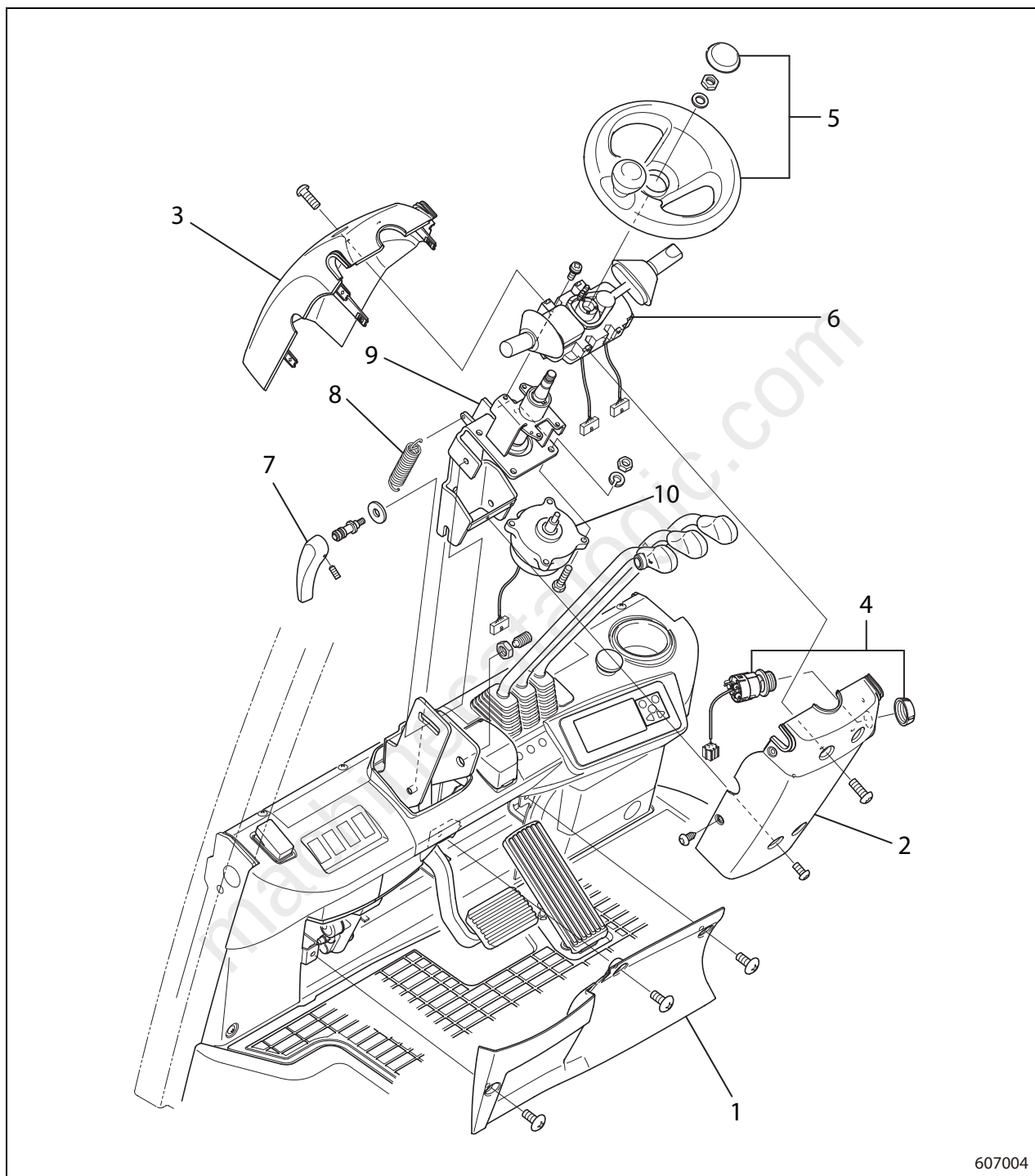
- (1) Remove the mast assembly. See "MAST AND FORKS".
- (2) Remove all the electric wirings, solenoid brake cable, and hydraulic lines connected to the motor and transfer.
- (3) Hitch a sling to lift the motor. Wind the sling to prevent it from falling.
- (4) Place a jack under the transfer, and support 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



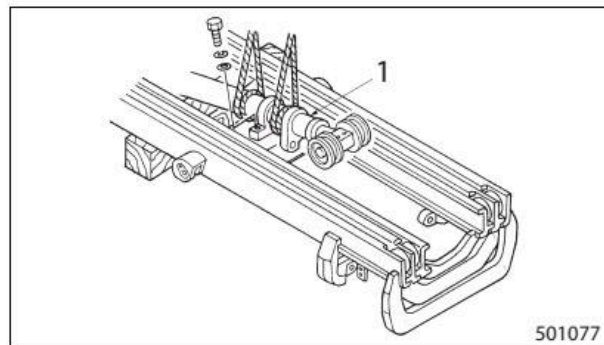
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- |                            |                             |
|----------------------------|-----------------------------|
| 1. Kick panel              | 6. Combination switch       |
| 2. Column panel (1)        | 7. Handle                   |
| 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

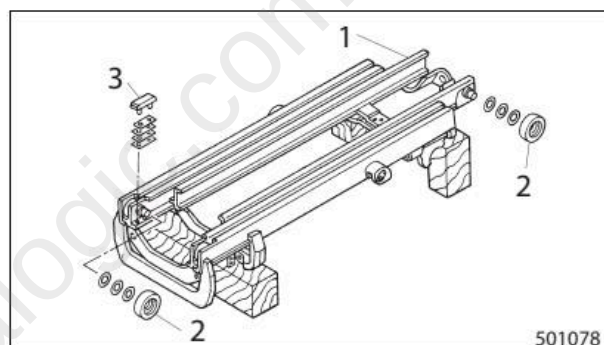
- (1) Remove retaining bolts from the first lift cylinder.
- (2) Hitch slings on lift cylinder, and slowly remove the cylinder.  
Use two slings. Wind or tie slings securely to prevent from slipping.



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.

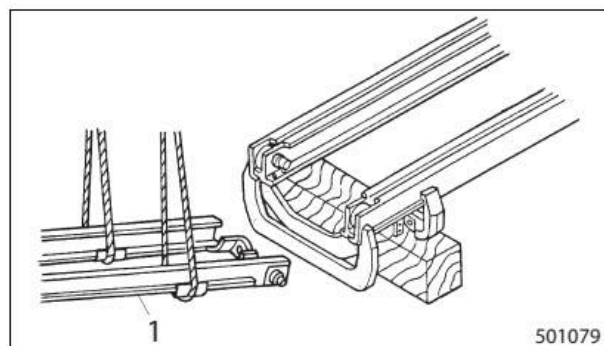


1. Inner mast  
2. Main roller

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

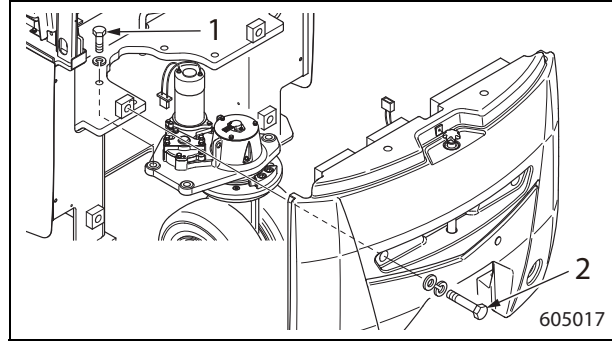
## 5. Installing Rear Axle

### 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<br>(17 to 21 kgf·m)<br>[119.5 to 146 lbf·ft] |
| 2    | Counterweight mounting bolts      | 320 N·m<br>(32.63 kgf·m)<br>[236 lbf·ft]                    |

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