



# Service Manual

## Chassis & Mast

## MC/FC

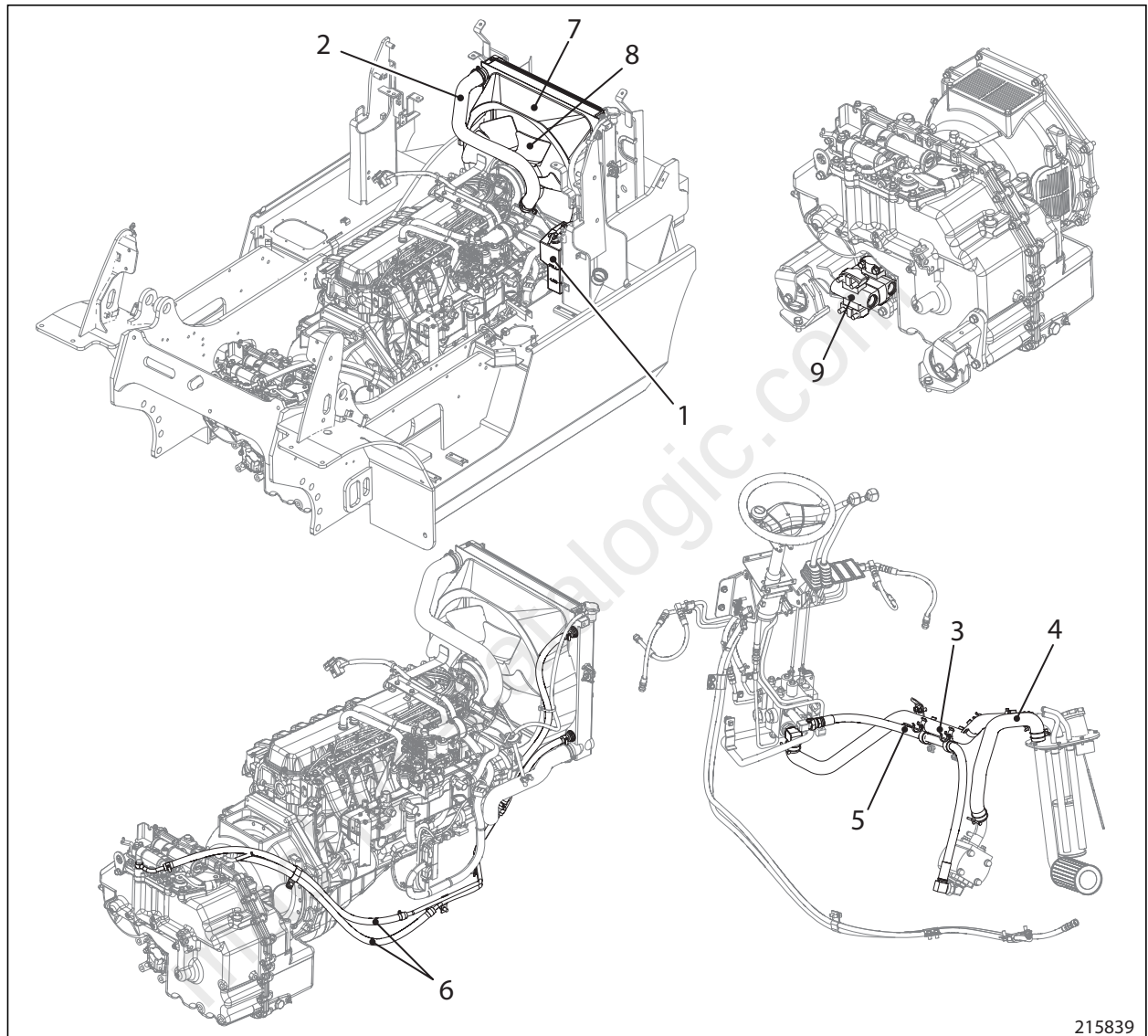
|        |                   |         |                   |
|--------|-------------------|---------|-------------------|
| FG40N  | CF40A-00011-99999 | FD40NB  | CF12D-00011-99999 |
| FG45N  | CF29E-50001-79999 | FD45NB  | CF19F-50001-79999 |
| FG50CN | CF29E-80001-99999 | FD50CNB | CF19F-80001-99999 |
| FG50N  | CF33D-50001-79999 | FD50NB  | CF28E-50001-79999 |
| FG55N  | CF33D-80001-99999 | FD55NB  | CF28E-80001-99999 |

### 1.8 Removing Pipes, Hoses, and Radiator (LPG Model)

#### Preparation

Loosen the drain cock at the bottom of the radiator to drain the coolant.

#### Removal sequence



215839

- |                                                        |                                                                                |
|--------------------------------------------------------|--------------------------------------------------------------------------------|
| 1. Reserve tank                                        | 6. Oil cooler hose (between radiator and transmission)                         |
| 2. Radiator hose (upper, lower)                        | 7. Shroud                                                                      |
| 3. Hydraulic hose (between tank and control valve)     | 8. Cooling fan                                                                 |
| 4. Hydraulic hose (between tank and oil pump)          | 9. Universal joint (between transmission and reduction/<br>differential gears) |
| 5. Hydraulic hose (between oil pump and control valve) |                                                                                |

#### Suggestions for Removal

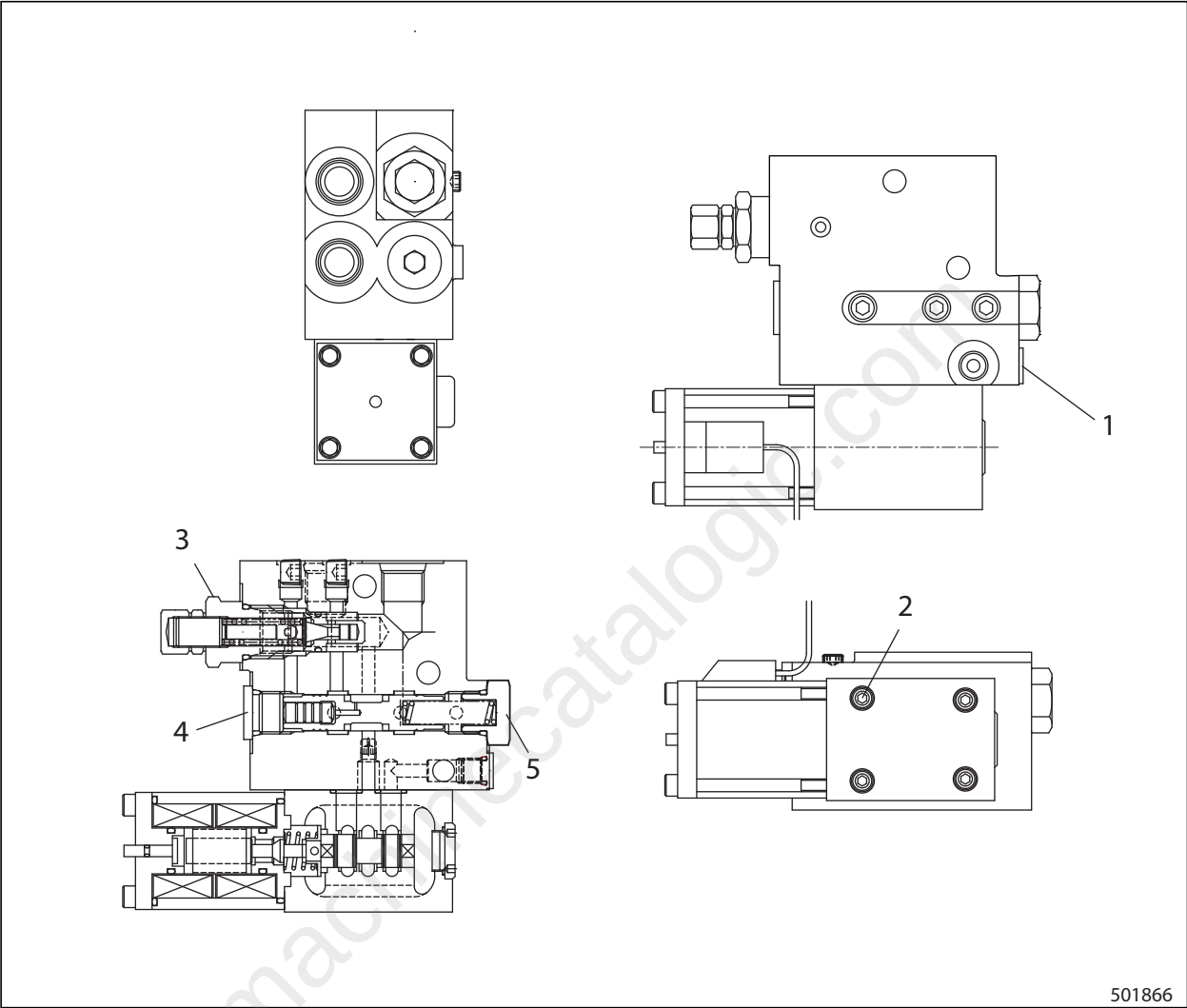
Disconnect the oil cooler hose from the transmission side and temporarily attach it onto the side wall of the frame.

5.2 Assembling Parking Brake

Assembly sequence

For assembly, follow the disassembly sequence in reverse and observe the instructions below:

- (1) Tighten each part to the specified torques as shown.



| Ref. | Tightening torque                                           |
|------|-------------------------------------------------------------|
| 1    | 6.0 to 8.0 N·m (0.61 to 0.82 kgf·m) [4.43 to 5.90 lbf·ft]   |
| 2    | 6.0 to 8.0 N·m (0.61 to 0.82 kgf·m) [4.43 to 5.90 lbf·ft]   |
| 3    | 34.3 to 39.2 N·m (3.5 to 4.0 kgf·m) [25.30 to 28.91 lbf·ft] |
| 4    | 24.5 ± 2.5 N·m (2.50 ± 0.25 kgf·m) [18.07 ± 1.84 lbf·ft]    |
| 5    | 24.5 ± 2.5 N·m (2.50 ± 0.25 kgf·m) [18.07 ± 1.84 lbf·ft]    |

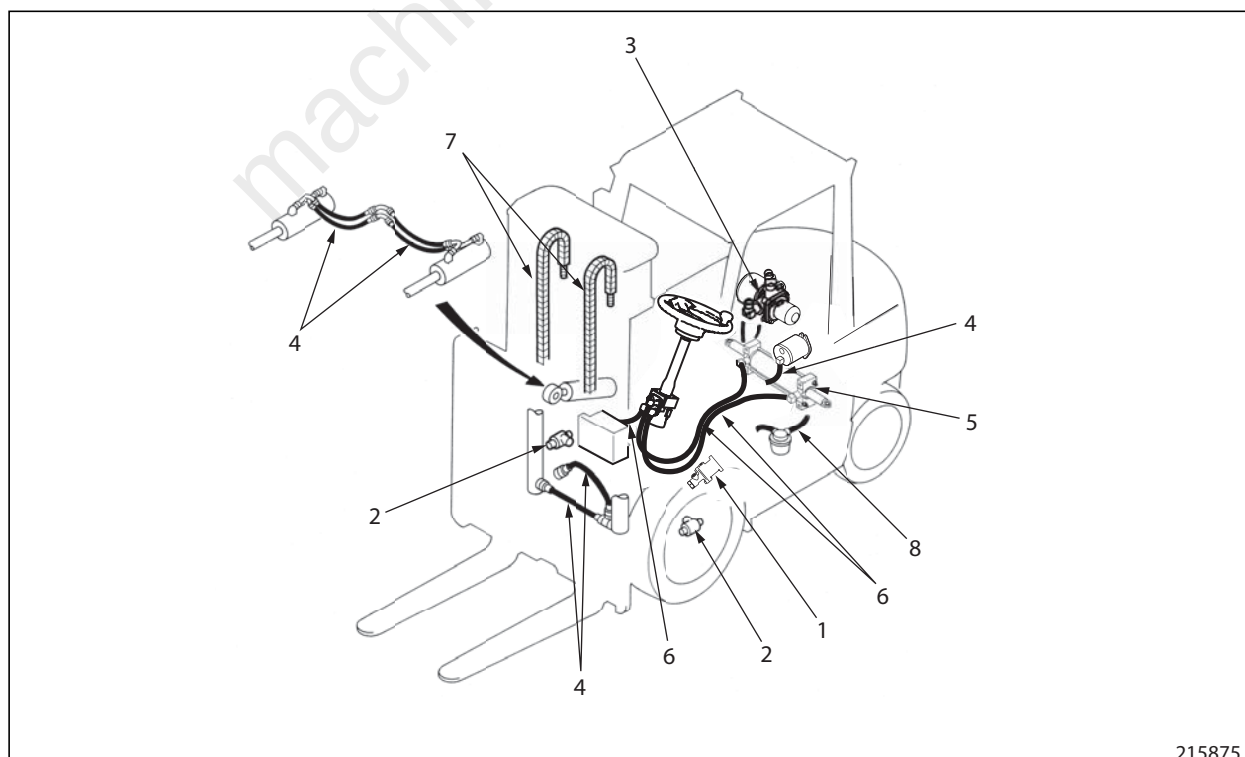
### 3. Periodic Inspection Parts

The important parts (marked with \*) and elements for safe operation listed below must be replaced at every designated replacement period.

#### 3.1 Periodic Replacement Parts

| No. | Periodic Replacement Parts             | Replacement period |                    |                         | Remark                      |
|-----|----------------------------------------|--------------------|--------------------|-------------------------|-----------------------------|
|     |                                        | Yearly<br>(year)   | Monthly<br>(month) | Service hours<br>(hour) |                             |
| 1   | *Brake valve rubber parts and hoses    | 1                  |                    | 2000                    |                             |
| 2   | *Rubber parts for brake wheel cylinder | 1                  |                    | 2000                    |                             |
| 3   | *LPG repair kit (LPG model only)       |                    | 30                 | 6000                    |                             |
| 4   | *High pressure hoses                   | 1                  |                    | 2000                    |                             |
| 5   | *Rubber parts for power cylinder       | 2                  |                    | 4000                    |                             |
| 6   | *Power steering hoses                  | 2                  |                    | 4000                    |                             |
| 7   | *Lift chains                           | 2                  |                    | 4000                    |                             |
| 8   | *Fuel hoses                            | 2                  |                    | 4000                    |                             |
| 9   | Engine oil filter element              |                    | 3                  | 500                     | Also 1 month after delivery |
| 10  | Fuel filter elements                   |                    | 6                  | 1000                    | Also 1 month after delivery |
| 11  | Hydraulic tank return filter           |                    | 6                  | 1000                    | Also 1 month after delivery |
| 12  | Air cleaner element                    |                    | 6                  | 1000                    | Clean every 2 weeks         |
| 13  | Engine coolant                         | 1                  |                    | 2000                    |                             |
| 14  | *LPG fuel filter (LPG model only)      | 1                  |                    | 2000                    |                             |

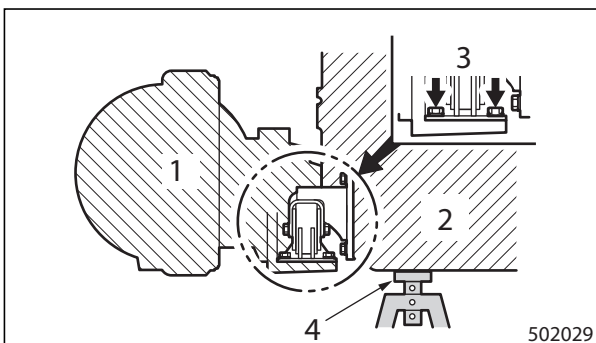
Note: (\*) indicates important security parts.



215875

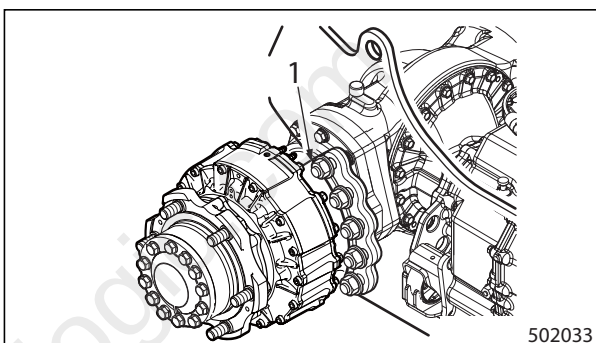
(4) Front axle assembly:

- Place the jack stands under the transmission to prevent it from falling down.
- Remove the connecting bolts between the transmission and the front axle.



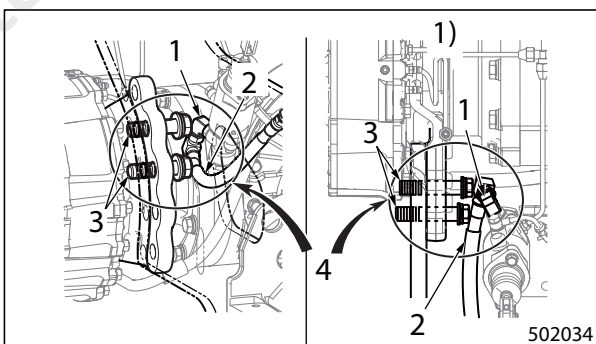
1. Front axle  
2. Transmission  
3. Connecting bolt  
4. Place jack stand.

- Remove mounting nuts from each side of the axle support, then remove the front axle assembly.



1. Mounting nut

Note: The two bolts (the illustration on the right) are contacting with brake hose and connector. Displace the brake hose and connector, and remove the bolts.



1. Connector  
2. Brake hose  
3. Bolt  
4. Bolt contact portion  
1) Top view

## 8.4 Installation

For installation, follow the removal sequence in reverse.

## 8.5 Suggestions for Installation

- Bleeding air from the brake circuit  
Before installing the mast assembly, bleed air out of the brake circuit. See "9. BRAKE SYSTEM".

| Item                                                 | Tightening torque                                               |
|------------------------------------------------------|-----------------------------------------------------------------|
| Input flange side mounting bolt                      | 54.0 to 63.8 N·m (5.51 to 6.51 kgf·m) [39.828 to 47.056 lbf·ft] |
| Connecting bolts between transmission and front axle | 59.8 ± 5.98 N·m (6.10 ± 0.60 kgf·m) [44.106 ± 4.41 lbf·ft]      |
| Axle support mounting nuts                           | 694 ± 69.4 N·m (70.8 ± 7.07 kgf·m) [511.87 ± 51.18 lbf·ft]      |

## Full Version Available

### Mitsubishi FG50N Forklift Service Manual (99739-5B110)

Mitsubishi FG50N forklift service manual PDF, covers LPG engine, hydraulics, drive train, and wiring for shop repairs. Instant PDF download.

**VIEW THE FULL MANUAL**

<https://machinecatalogic.com/mitsubishi-fg50n-forklift-service-manual-99739-5b110/>