



Service Manual

Chassis & Mast

MC/FC

FG40N	CF40A-00011-99999
FG45N	CF29E-50001-79999
FG50CN	CF29E-80001-99999
FG50N	CF33D-50001-79999
FG55N	CF33D-80001-99999

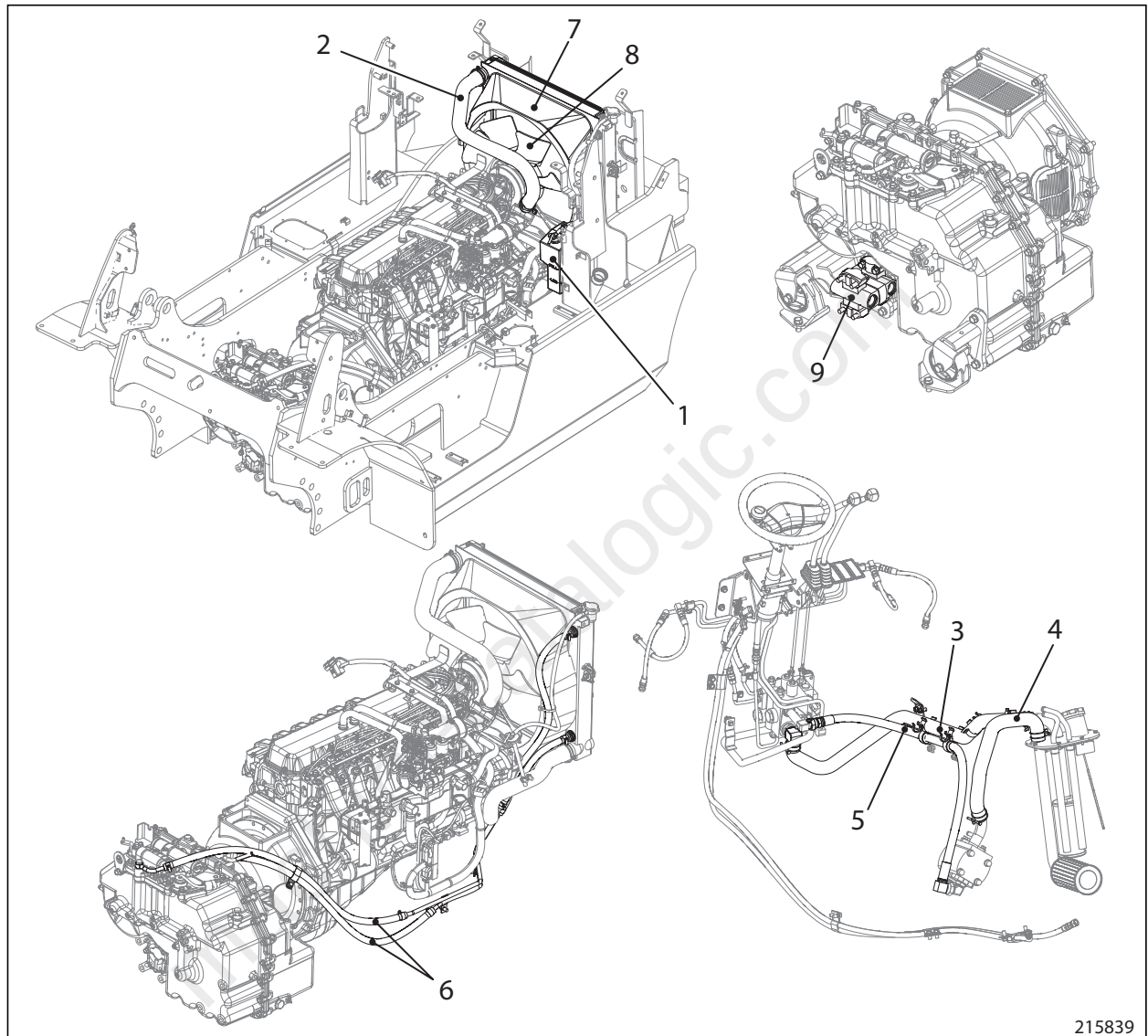
FD40NB	CF12D-00011-99999
FD45NB	CF19F-50001-79999
FD50CNB	CF19F-80001-99999
FD50NB	CF28E-50001-79999
FD55NB	CF28E-80001-99999

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



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- | | |
|--|--|
| 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/
differential gears) |
| 5. Hydraulic hose (between oil pump and control valve) | |

Suggestions for Removal

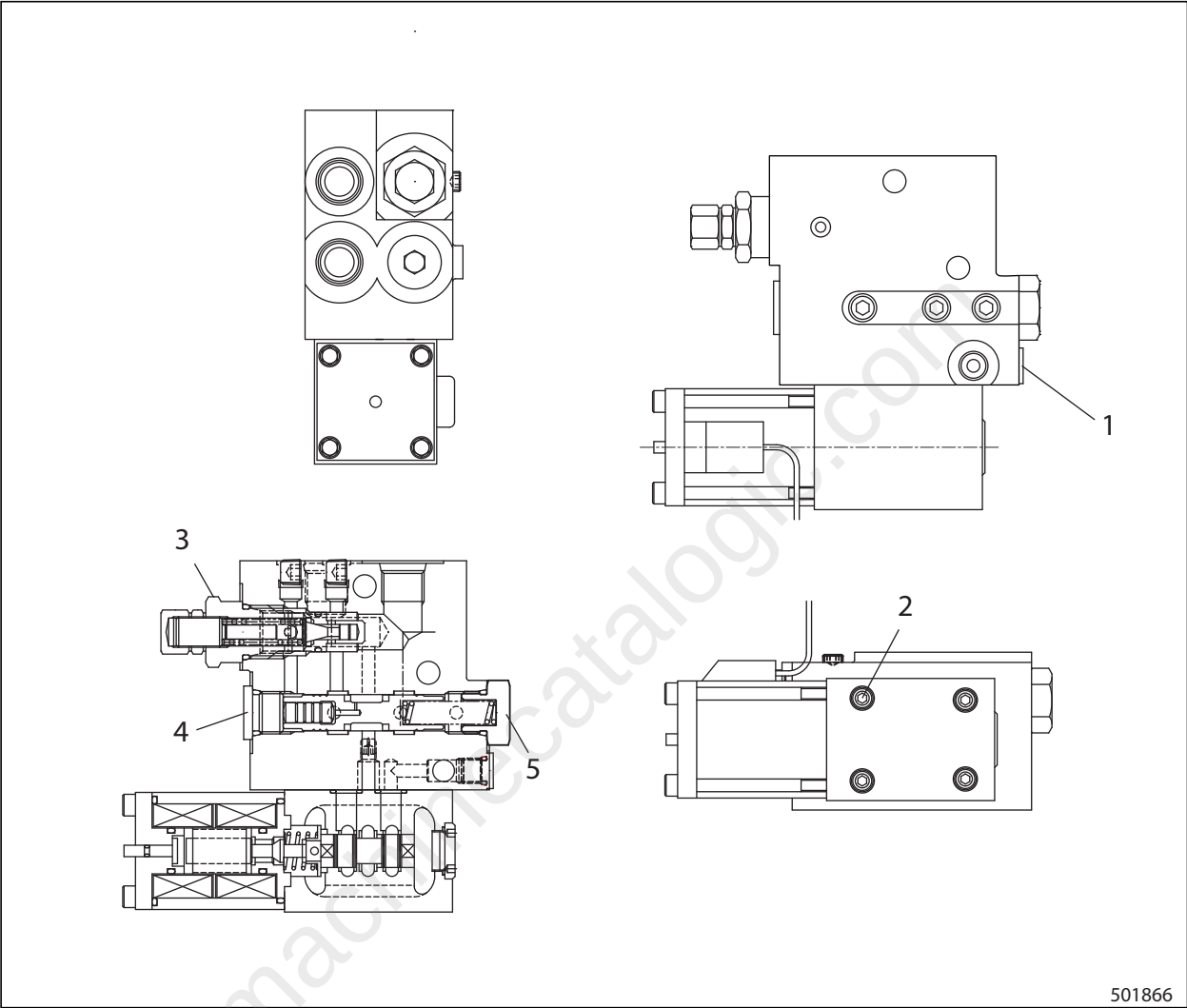
Disconnect the oil cooler hose from the transmission side and temporarily attach it onto the side wall of the frame.

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.



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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]

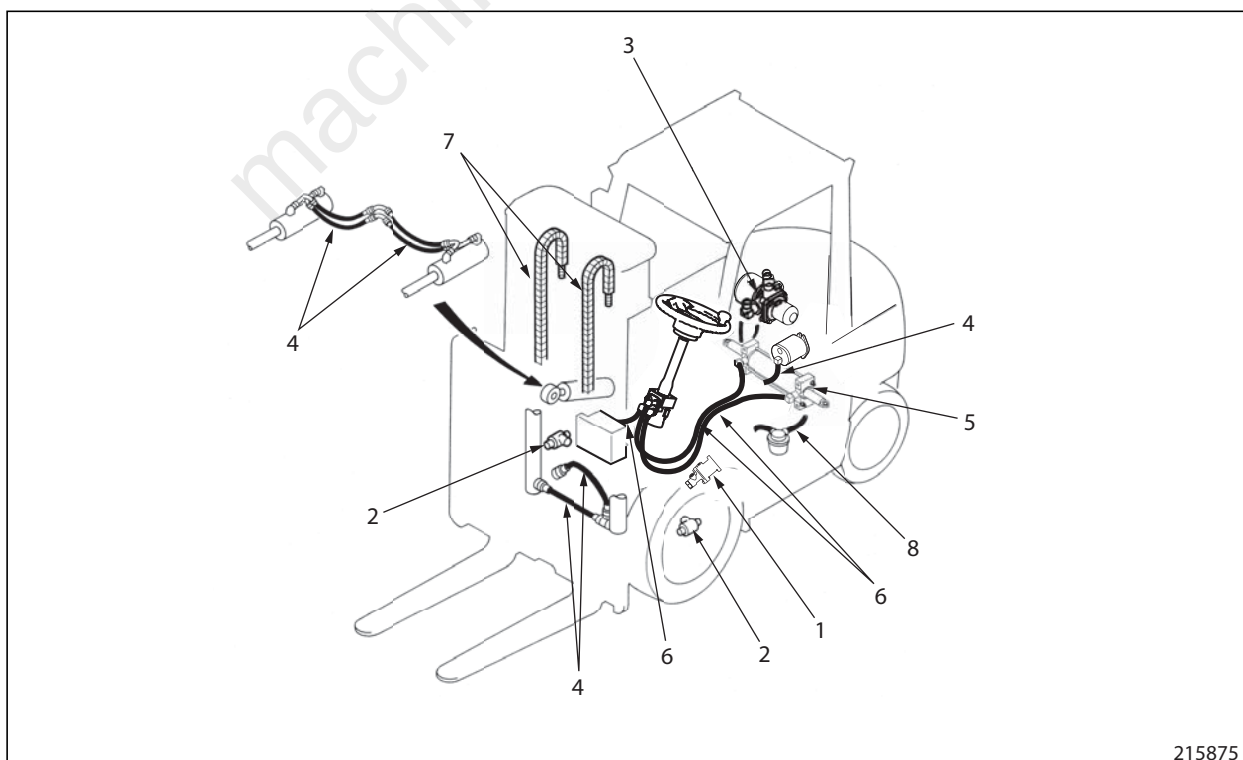
3. Periodic Inspection Parts

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 (year)	Monthly (month)	Service hours (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	

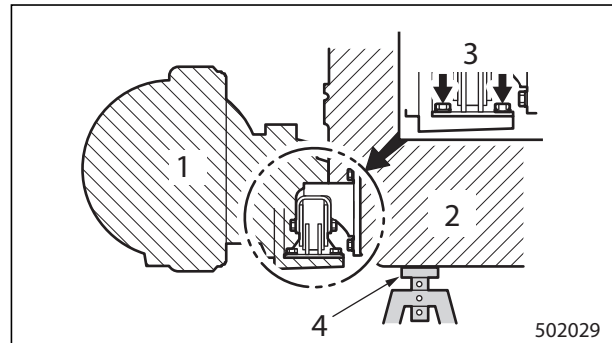
Note: (*) indicates important security parts.



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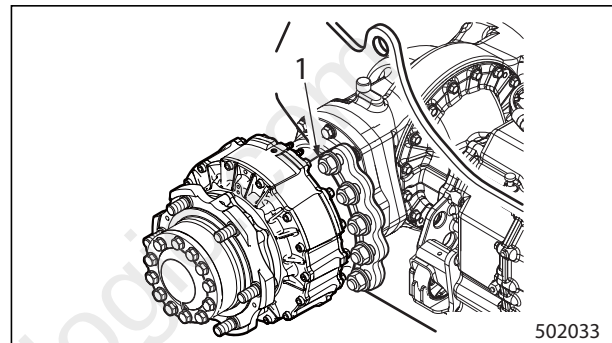
(4) Front axle assembly:

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



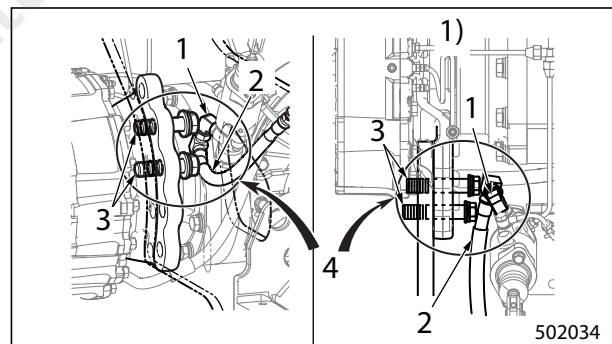
- 1. Front axle
- 2. Transmission
- 3. Connecting bolt
- 4. Place jack stand.

- 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 FG50CN Forklift Service Manual (99739-5B110)

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