



Service Manual

Chassis & Mast

MC

FD70NM AF20D-40011-up

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1.4 Removing Pipes/Hoses, Oil Cooler, and Radiator

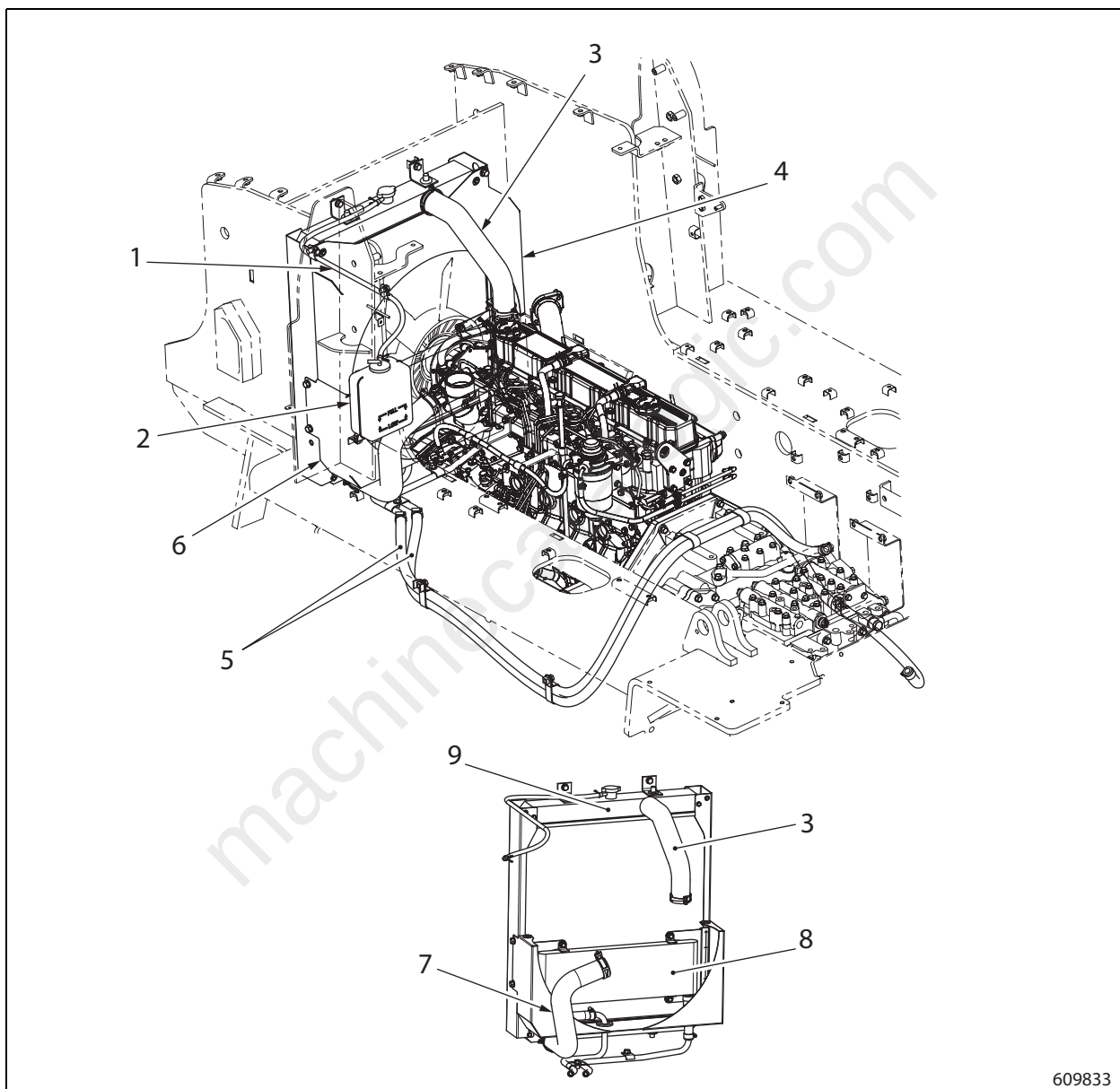
Preparation

⚠ CAUTION

- DO NOT open the drain cock when the coolant is hot.
- Antifreeze/coolant is poisonous. Keep it in the container for disposal. Ask a hazardous waste company for disposal.

Drain the coolant by loosening the drain cock at the bottom of the radiator.

Removal sequence



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- | | |
|--------------------------|--------------------------------|
| 1. Vent hose | 6. Lower cowl |
| 2. Reserve tank | 7. Radiator lower hose |
| 3. Radiator upper hose | 8. Torque converter oil cooler |
| 4. Upper cowl | 9. Radiator |
| 5. Torque converter hose | |

5. Removing Steering Valve

- (1) Remove the cover from the steering column.
- (2) Disconnect hoses (4 places) from the steering valve.
- (3) Remove bolts and remove the steering valve.

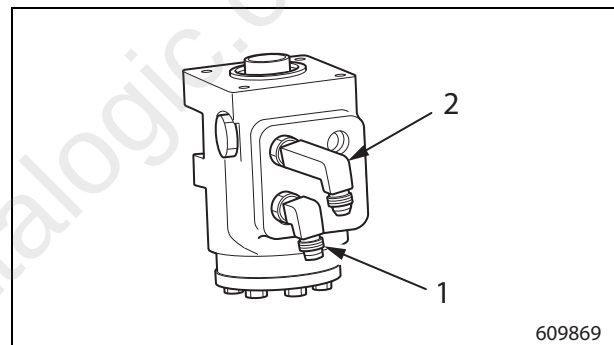
6. Installing Steering Valve

To install follow the removal sequence in reverse and also follow the instructions below:

- Apply grease on the serrated portion at the lower part of the steering shaft.
- To install hoses on the steering valve, remove the steering valve.
- Tighten the mounting bolts to the specified torque.
- When installing hoses on the steering valve, pay attention to the orientation.

Special tool	Part number
Hose remover	91K67-00400

- (1) Install P port connector and O-ring.
- (2) Install T port connector and O-ring.

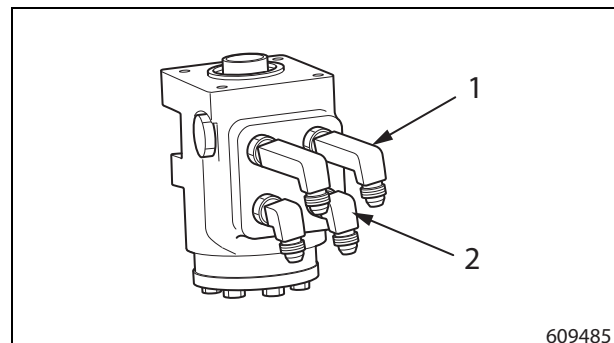


1. P port connector

2. T port connector

Item	Tightening torque
P port connector	63 to 77 N·m (6.42 to 7.85 kgf·m) [46.47 to 56.79 lbf·ft]
T port connector	63 to 77 N·m (6.42 to 7.85 kgf·m) [46.47 to 56.79 lbf·ft]

- (3) Install L and R port connectors and O-rings.



1. L port connector

2. R port connector

Item	Tightening torque
L port connector	63 to 77 N·m (6.42 to 7.85 kgf·m) [46.47 to 56.79 lbf·ft]
R port connector	63 to 77 N·m (6.42 to 7.85 kgf·m) [46.47 to 56.79 lbf·ft]

Without spring washer										
Nominal size mm (in.)	Pitch mm (in.)	 500247			 500248			 500249		
		N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
10 (0.39)	1.5 (0.06)	39.2	4.0	28.9	51.0	5.2	37.6	79.4	8.1	58.6
12 (0.47)	1.75 (0.07)	69.6	7.1	51.4	90.2	9.2	66.5	135.3	13.8	99.8
14 (0.55)	2 (0.08)	112.8	11.5	83.2	146.1	14.9	107.8	215.7	22.0	159.1
16 (0.63)	2 (0.08)	172.6	17.6	127.3	224.6	22.9	165.6	323.6	33.0	238.7
18 (0.71)	2.5 (0.10)	239.3	24.4	176.5	311.9	31.8	230.0	451.1	46.0	332.7
20 (0.79)	2.5 (0.10)	336.4	34.3	248.1	437.4	44.6	322.6	630.6	64.3	465.1
22 (0.87)	2.5 (0.10)	392.3	40.0	289.3	587.4	59.9	433.3	842.4	85.9	621.3
24 (0.95)	3 (0.12)	578.6	59.0	426.7	753.2	76.8	555.5	1088.5	111.0	802.9
27 (1.06)	3 (0.12)	852.2	86.9	628.5	1108.2	113.0	817.3	1588.7	162.0	1771.7
30 (1.18)	3.5 (0.14)	1140.5	116.3	841.2	1481.8	151.1	1092.9	2168.3	221.1	1599.2
33 (1.30)	3.5 (0.14)	1563.2	159.4	1153.0	2031.9	207.2	1498.7	2915.5	297.3	2150.4
36 (1.42)	4 (0.16)	1972.1	201.1	1454.6	2564.4	261.5	1891.4	3765.8	384.0	2777.5
39 (1.54)	4 (0.16)	2610.5	266.2	1925.4	3393.1	3469.0	2502.6	4845.5	494.1	3573.8
42 (16.5)	4.5 (0.18)	3241.1	330.5	2390.5	4212.9	429.6	3107.3	6044.8	616.4	4458.4



Full Version Available

Mitsubishi FD70NM Forklift Service Manual (99709-7C100)

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