



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

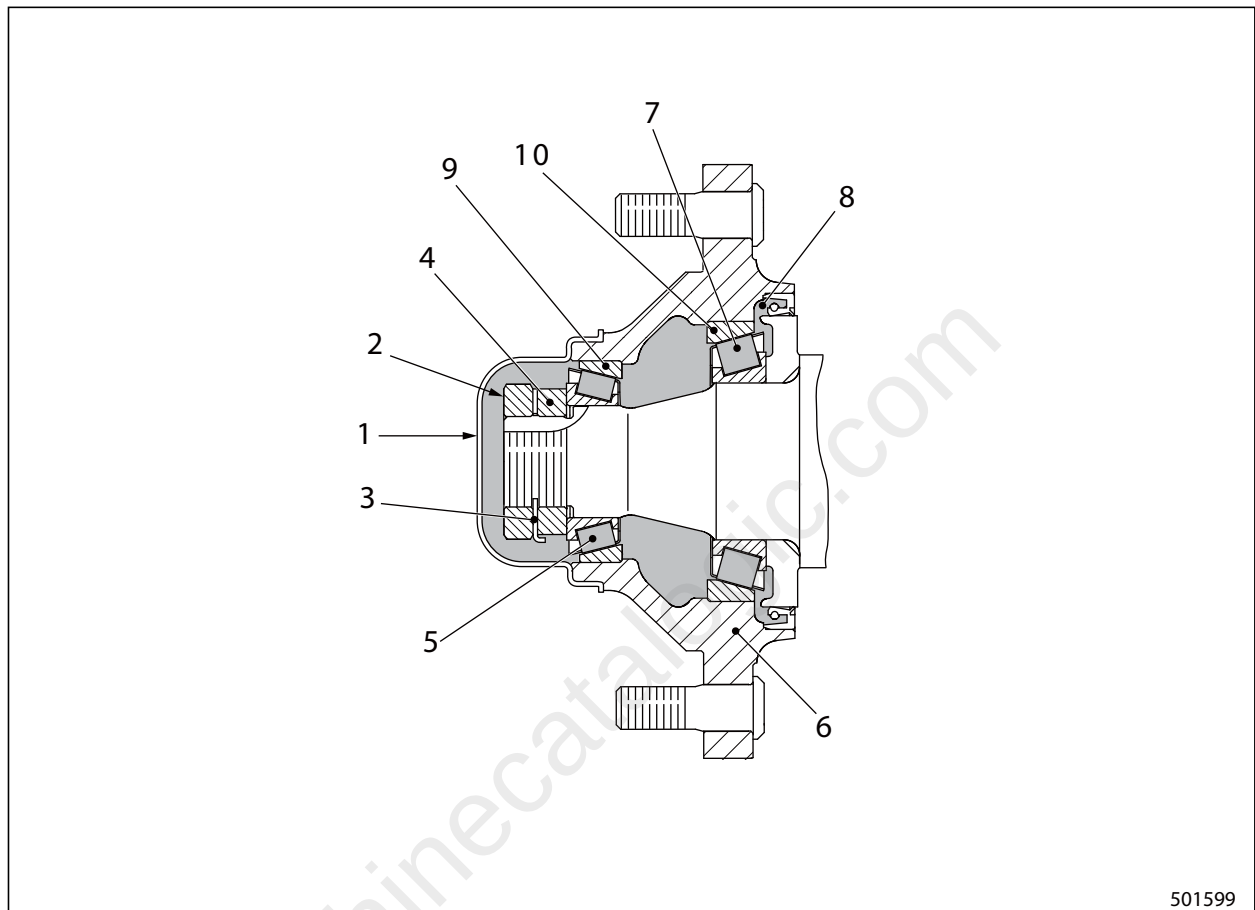
VCM signal allocation (CN1)

Pin No.	Circuit No. (Wire color)	MC	FC	Signal name
1	611	○	○	Mode selection switch
2	-	-	-	Oil temperature switch (Hydraulic oil, wet disc brake)
3	-	-	-	Lift operation switch
4	-	-	-	Tilt operation switch
5	615	-	○	Mast high switch (option)
6	616	○	○	Speed limit switch
7	617	○	○	Power/soft mode switch
8	618	○	○	Power/soft mode switch
9	619	○	○	Contact-type FC control 4V-5V switch
10	620	○	○	Parking brake pressure switch
11	621	○	○	T/M variable force solenoid
12	622	○	○	Illumination sensor signal (+)
13	623	○	○	Illumination sensor signal (-)
14	624	○	○	Oil pressure sensor power supply(+5V)
15	625	○	○	Oil pressure LIFT signal
16	-	-	-	AUX sensor signal
17	627	○	○	Oil pressure sensor GND
18	600	○	○	Power supply (+12V)
19	-	-	-	Steering sensor power supply(+12V)
20	-	-	-	Steering sensor GND
21	-	-	-	Steering sensor [angle 1]
22	-	-	-	Steering sensor [angle 2]
23	-	-	-	Steering sensor [neutral]
24	-	-	-	AUX out 1
25	960	○	○	Power supply GND
26	601	○	○	Power supply (+12V)
27	637	-	○	Tilt angle sensor power supply (+5V)
28	638	-	○	Tilt angle sensor signal
29	639	-	○	Tilt angle sensor GND
30	640	○	○	Unload solenoid output
31	641	○	○	Lift lock solenoid output
32	642	○	○	Unload/lift lock return
33	643	○	○	Warning alarm output
34	961	○	○	Power supply GND

3. Disassembling and Assembling Wheel Hub

3.1 Disassembling Wheel Hub

Disassembly sequence



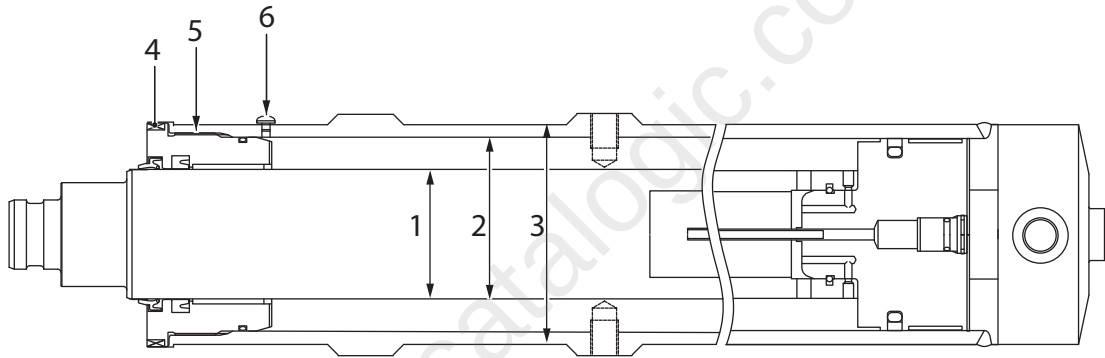
- | | |
|--|---|
| 1. Hub cap | 6. Hub (with tapered roller bearing) |
| 2. Locknut (hexagon nut) | 7. Tapered roller bearing (inner race) |
| 3. Lockplate | 8. Oil seal |
| 4. Locknut (hexagon nut) | 9. Tapered roller bearing (outer race) |
| 5. Tapered roller bearing (inner race) | 10. Tapered roller bearing (outer race) |

Suggestions for Disassembly

- (1) Remove the rear wheel beforehand.
- (2) Check the hub for looseness. If looseness is found, the bearing may be worn.
- (3) Do not remove the bearing if it is not damaged.
- (4) The inner and outer races of tapered roller bearing make a pair. Replace them as a set, if required.
- (5) Replace oil seals once they are removed. Do not reuse it.
- (6) Use the special tool to remove the bearing.

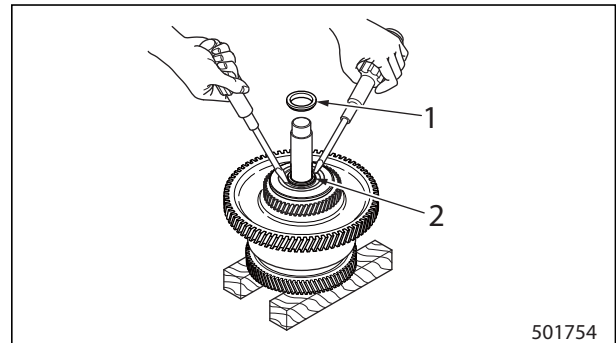
34.3 First Cylinder for Duplex and Triplex Masts

Ref.	Item		Truck class	
			4.0 to 4.5 ton	5.0C to 5.5 ton
1	Rod outside diameter	Standard value	70 mm (2.76 in.)	75 mm (2.95 in.)
2	Cylinder inside diameter	Standard value	100 mm (3.94 in.)	110 mm (4.33 in.)
3	Cylinder outside diameter	Standard value	115 mm (4.53 in.)	127 mm (5.00 in.)
4	Cylinder head thread size	Standard value	M105 x 2	M115 x 2
5	Cylinder head	Tightening torque	647 ± 150 N·m (65.97 ± 15.30 kgf·m) [477.20 ± 110.63 lbf·ft]	834 ± 191 N·m (85.0 ± 19.48 kgf·m) [615.13 ± 149.87 lbf·ft]
6	Plug	Tightening torque	3.92 ± 0.98 N·m (0.40 ± 0.10 kgf·m) [2.89 ± 0.72 lbf·ft]	3.92 ± 0.78 N·m (0.40 ± 0.08 kgf·m) [2.89 ± 0.58 lbf·ft]



506792

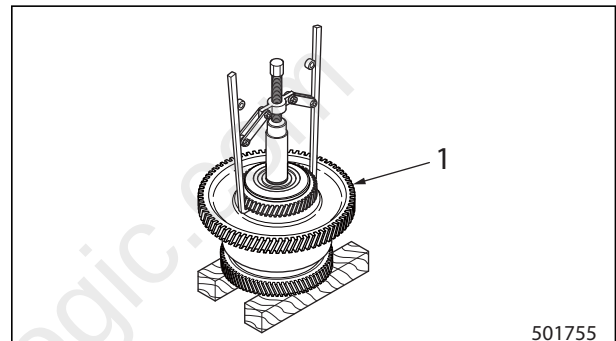
- (4) Remove the spacer from the shaft using two flathead screwdrivers.
- (5) Remove the snapping.



1. Spacer

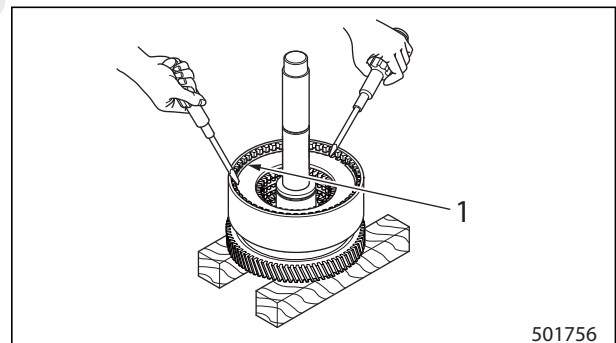
2. Snapping

- (6) Remove F2 clutch gear from clutch drum using the puller (special tool).



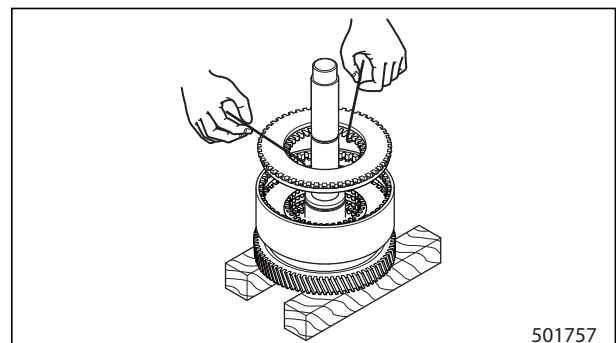
1. F2 clutch gear

- (7) Remove the bearing by tapping with a round bar.
- (8) Remove the snapping from clutch drum using two flathead screwdrivers.



1. Snapping

- (9) Using a wire with a shaped hook at the end, remove the pressure plate, mating plate, and friction plate from clutch drum.



501757

Full Version Available

Mitsubishi FD50NB Forklift Service Manual (99739-5B110)

Mitsubishi FD50NB forklift service manual PDF, covers engine, hydraulics, drive train, and wiring for CF28E-50001-79999. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/mitsubishi-fd50nb-forklift-service-manual-99739-5b110/>