MITSUBISHI FORKLIFT TRUCKS

Service Manual

Chassis & Mast

LC/FC

FD100NM1	AF15E-20011-39999
FD120NM1	AF15E-20011-39999
FD135NM1	AF15E-20011-39999
FD150ANM1	AF24C-20011-39999

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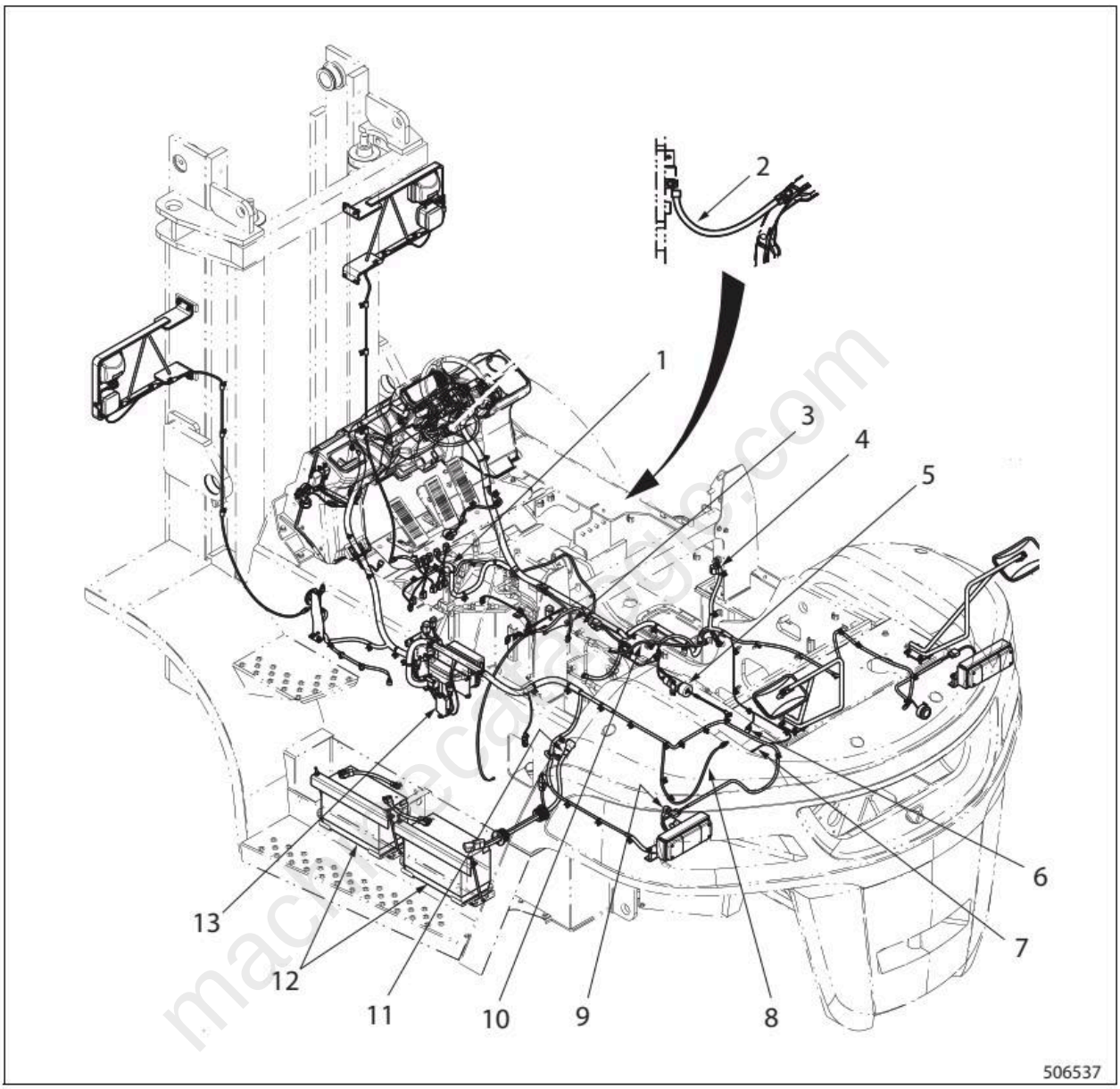
For use with 6D16-TL Diesel Engine Service Manual

99799-77100

4.3 Removing Harnesses

Remove connectors and terminals.



1. Control valve (FC)
2. Battery cable
3. Power train
4. Rear tower (RH)
5. Engine stop solenoid
6. Oil bypass alarm switch
7. Oil pressure switch
8. Engine thermo unit
9. Alternator
10. Glow plug
11. Starter
12. Battery
13. Engine stop timer

Suggestions for removal

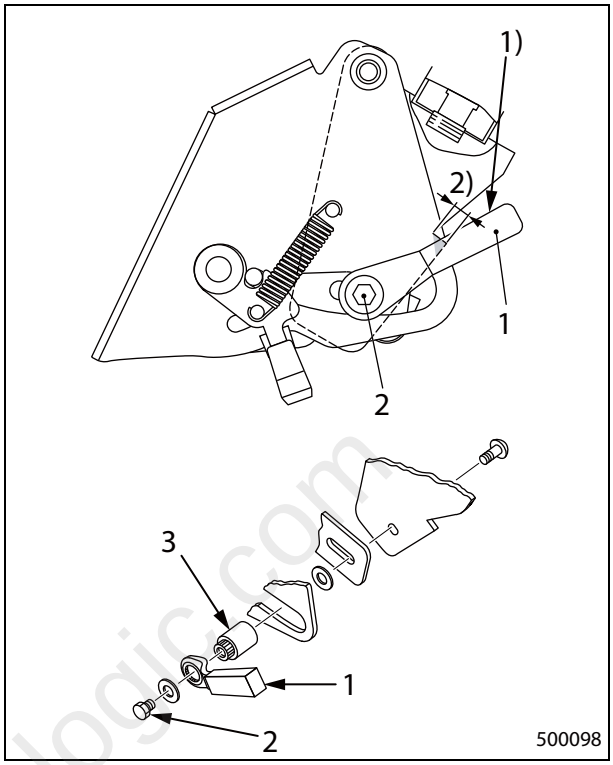
(1) Tack the disconnected harnesses to the main harness or the frame to prevent damage to them.

(2) If other wires are stressed when removing the engine and transmission as one unit, see "3. ELECTRICAL SYSTEM" to disconnect the related wiring.

4.7 Assembling Tilt Lock Lever

If the matchmarks which were made earlier, have disappeared, or when the lever is replaced with a new one, install the lever as instructed below.
(The illustration on the right shows the relation of the parts when the tilt position is in NEUTRAL and the column lock lever is locked.)

(1) Tighten nut **3** to the tightening torque of 11 to 15 N·m (1.1 to 1.5 kgf·m) [8.11 to 11.06 lbf·ft]. (This is a lever locked state).
(2) Select the optimal locked position for the tilt lock lever **1** and fit the tilt lock lever **1** into the serration of nut **3**. The optimal position is within the range which formed by the intersection of the notched section **2)** of the bracket and the upper aspect of the lever.
(3) Tighten bolt **2**.
(4) Loosen the tilt lock lever **1**, and make sure that the bracket slides in the entire tilting range without interfering with other parts.



1. Tilt lock lever
2. Lever mounting bolt
3. Nut

1) Lever aspect

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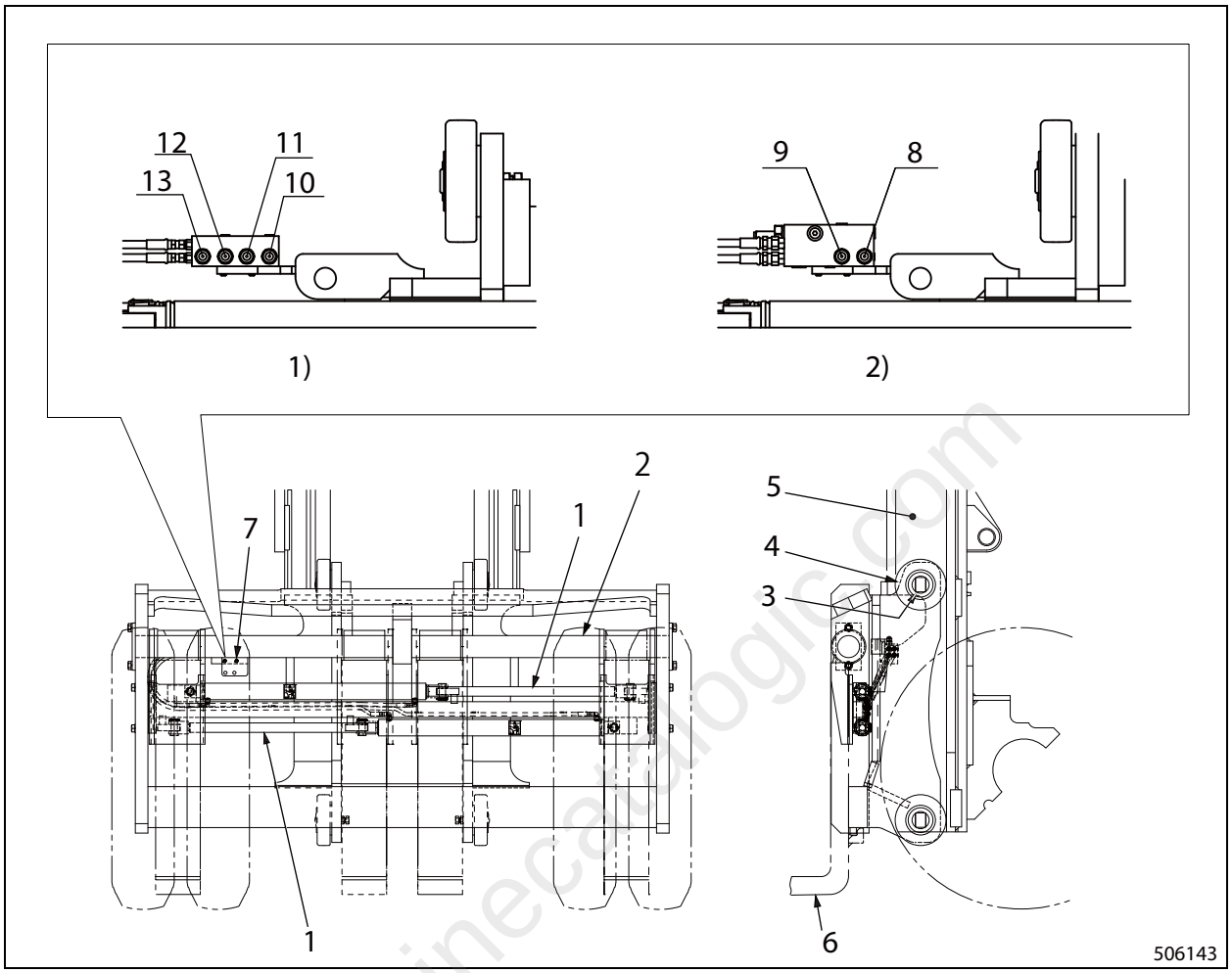
3. Structure



1. Fork positioner cylinders
2. Fork guide bar
3. Side roller
4. Main roller
5. Mast
6. Forks
7. Piping
8. Forks outward
9. Forks inward
10. Left fork outward
11. Left fork inward
1. Right fork outward
12. Right fork inward
1) Piping for simultaneous fork positioner
2) Piping for individual fork positioner

- The fork positioner is an attachment that enables the outside fork spread to be adjusted stepless from the minimum position to the maximum position.
- The spread of the forks must be changed depending on the sizes of loads to ensure the stability of load.
- The hydraulic fork positioner can smoothly adjust the fork position using hydraulic cylinders.
- The fork positioner must be adjusted before picking up a load, as it cannot be adjusted while carrying the load on the fork.
- The fork positioner cylinder is mounted between the fork bracket and the lift bracket, and the extending and retracting movements of the cylinder slide the fork blades sideways.
- The right and left blades are independently adjustable.
  In the case of the simultaneous move type, one attachment lever operates the right and left blades simultaneously. In the case of the independent move type, two attachment levers operate the right and left blades independently.

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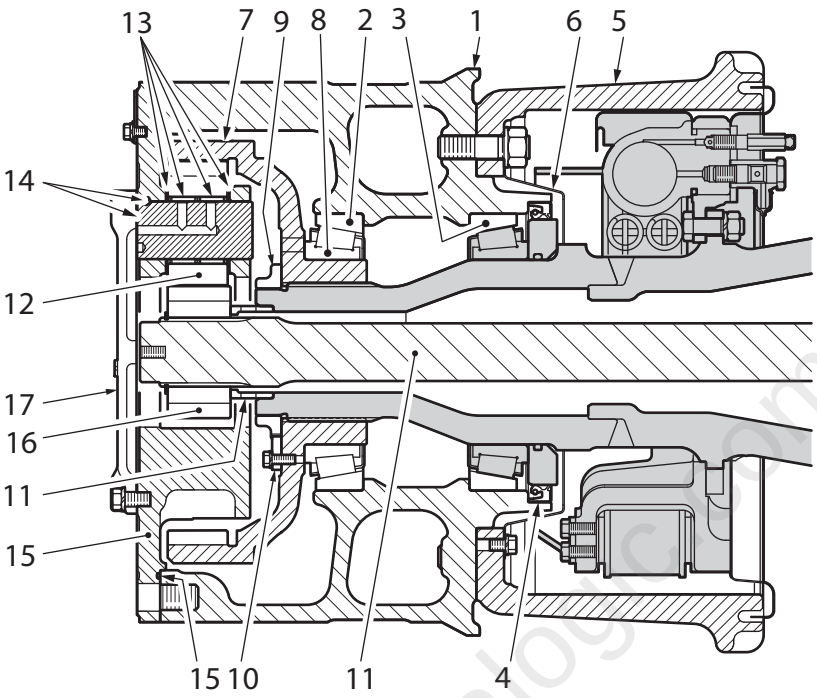
10.3 Assembly Sequence of Hub Reduction



1. Front wheel hub
2. Tapered roller bearing (Outer race)
3. Tapered roller bearing (Outer race)
4. Oil seal
5. Brake hub
6. Oil deflector
7. Ring gear
8. Tapered roller bearing (Inner race)
9. Nut
10. Lockplate
11. Axle shaft, Sleeve
12. Planetary gear
13. Roller bearing, Thrust washer
14. Planetary pin, Steel ball
15. Planetary carrier, O-ring
16. Sun gear
17. Planetary gear cover, Gasket

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