



Service Manual

Chassis & Mast

MC

FG20S	CF54-10011-up
FG25S	CF54-50011-up
FG30S	CF55-10011-up

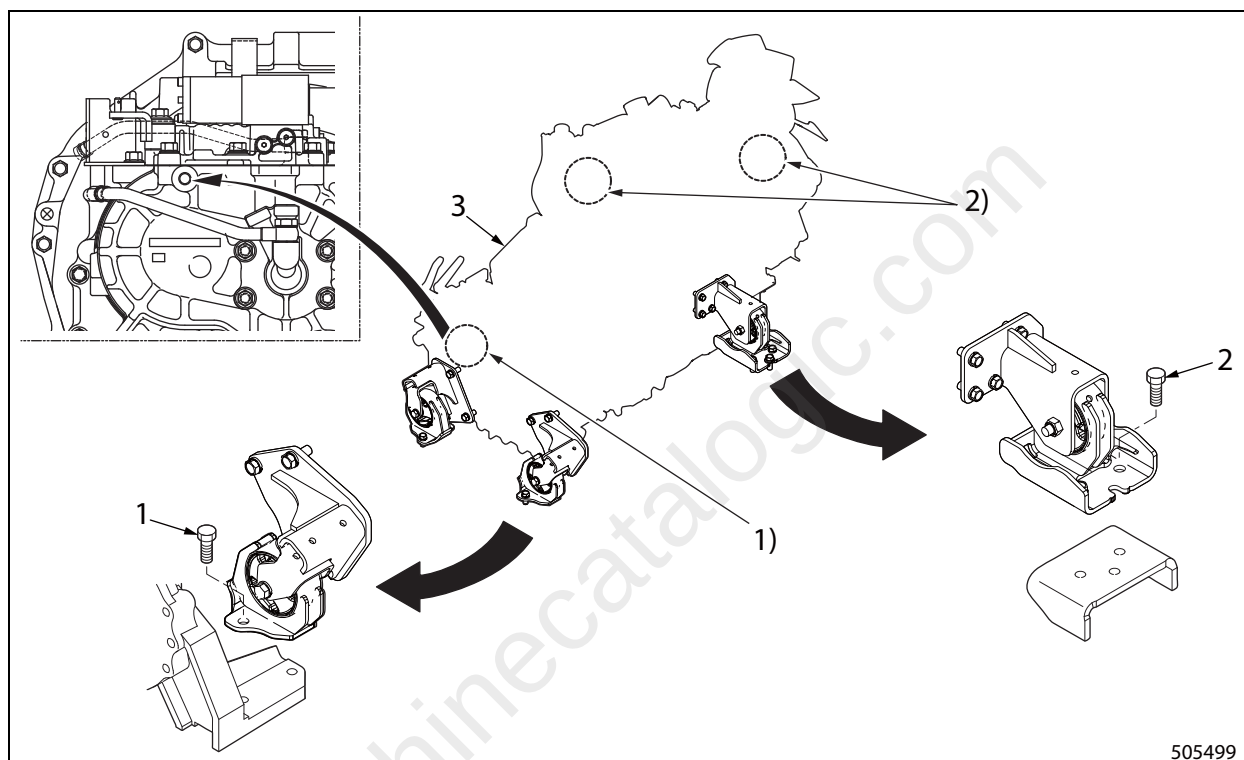
FD20HS	CF50-10011-up
FD25HS	CF50-50011-up
FD30HS	CF51-10011-up

1.9 Preparation for Removing Engine and Transmission Assembly

Lift the engine and transmission assembly with a hoist and slings.

Item	Weight
Engine and transmission assembly	Approx. 250 kg (551.2 lb.)

1.10 Removal Sequence of Engine and Transmission Assembly



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- | | |
|-------------------------------------|--|
| 1. Transmission mounting bolt | 1) Chain shackle for transmission lifting (screw size: M12 x 1.75) |
| 2. Engine mounting bolt | 2) Sling plates for engine lifting. (Engine parts) |
| 3. Engine and transmission assembly | |

1.11 Suggestions for Removing Engine and Transmission Assembly

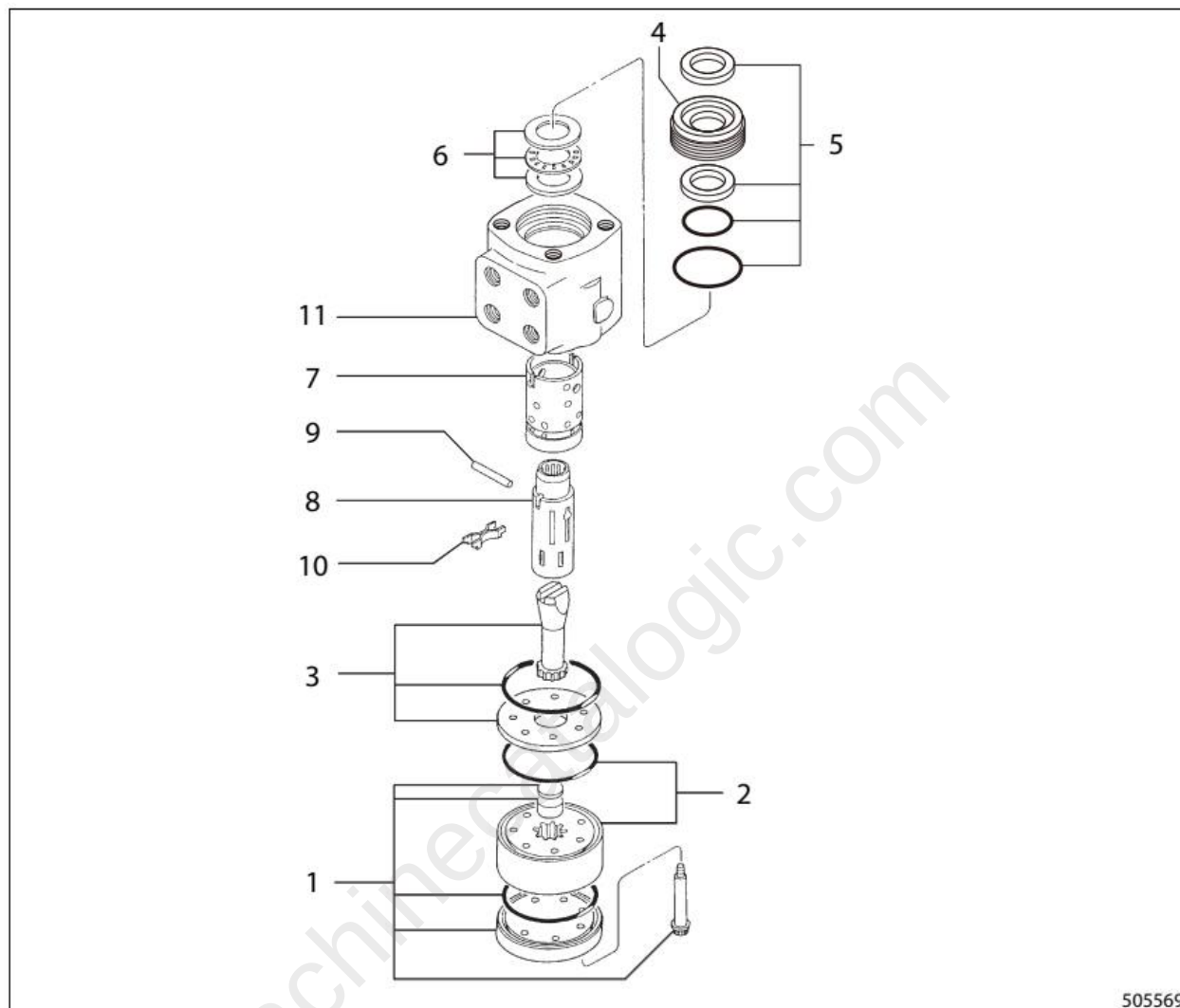
- (1) To remove mounting bolts, lift the engine and transmission assembly high enough to lighten the weight from the mount cushions. Remove the engine mounting bolts of engine mounting.
- (2) Hitch slings to the three hooks, slowly lift the engine and transmission assembly by moving it backwards while maintaining its balance.

Note:

- With the engine and transmission assembly suspended, drain the transmission oil.
- Only one drain plug is provided on the powershift transmission.

10. Disassembling Steering Valve

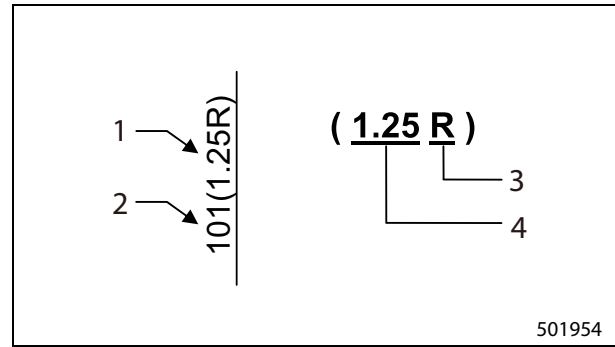
10.1 Disassembly Sequence



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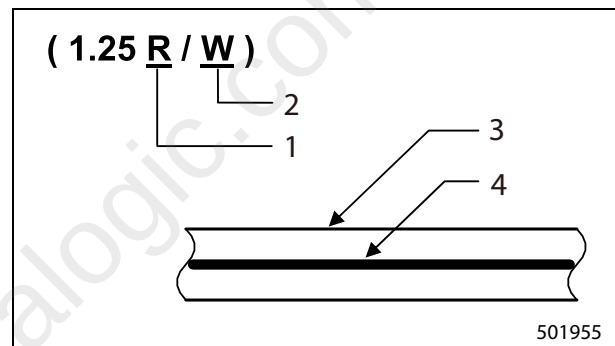
2.3 Connecting Lines

- (1) There are two thicknesses of the line which connect between elements in the circuit diagram. Each line is used as follows:
 - Thick line: Connecting lines for the electric wires size of 20 mm^2 (0.78 in^2) or above.
 - Thin line: All other connecting lines except the above.
- (2) Connecting lines are represented by the circuit number, wire diameter and wire color. For the connecting lines of 0.5 mm^2 (0.02 in^2) wire size, the wire diameter is omitted.



1. Wire diameter, wire color
2. Circuit number
3. Wire color
4. Wire diameter

- (3) Here are two types of wires: the one having only one color and the one having a colored stripe (combination of two colors).



1. Base color
2. Stripe color
3. Base color
4. Stripe color

Color codes

Symbol	Color	Symbol	Color	Symbol	Color
B	Black	Br	Brown	P	Pink
W	White	L	Blue	Sb	Sky blue
R	Red	Lg	Light green	V	Purple
G	Green	O	Orange		
Y	Yellow	Gr	Gray		

7.2 Suggestions for Disassembly

- (1) Remove the rear wheels beforehand.
- (2) Check the hub for looseness. If there is looseness, 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. They must be replaced as a set.
- (5) Replace oil seals once they are removed. Do not reuse it.
- (6) Remove tapered roller bearing (inner race) 7.

8. Inspection and Repair After Disassembling Wheel Hub Section

- (1) Bearing:
Replace if damage, seizure, peeling, rotational failure, or unusual noise is found.
- (2) Hub:
Replace if cracks are found by dye check.
- (3) Oil seal:
Replace if damaged or worn.

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Full Version Available

Mitsubishi FG20S Forklift Service Manual (99729-10100)

Mitsubishi FG20S forklift service manual PDF, covers engine, hydraulics, mast, transmission, and wiring for shop repair. Instant PDF download.

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