



Service Manual

Chassis & Mast

MC

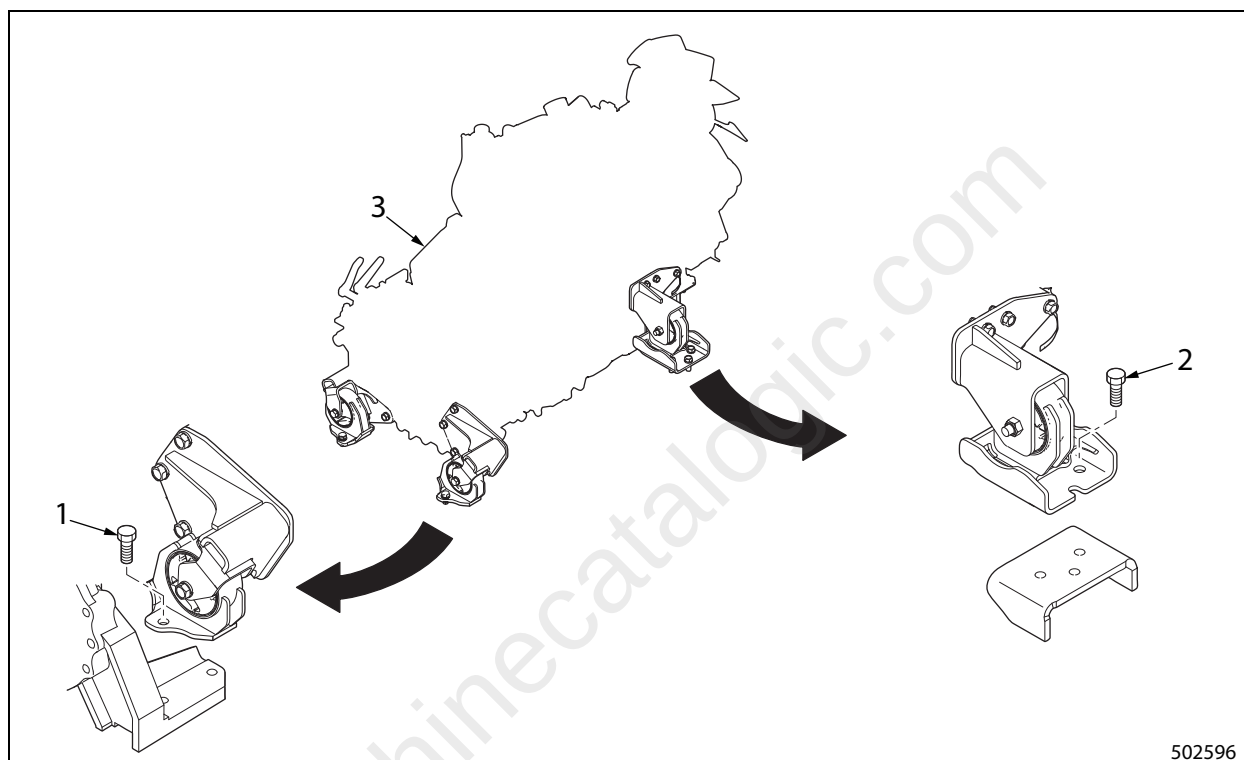
FG15N	CF25C-55001-up	FGE15N	CF34-00001-up	FD15N	CF16D-54001-up
FG15ZN	CF34-52001-up	FGE18N	CF34-40001-up	FD18N	CF16D-74001-up
FG18N	CF25C-75001-up	FGE20CN	CF34-30001-up	FD20CN	CF16D-24001-up
FG18ZN	CF34-72001-up	FGE20N	CF17D-20001-up	FD20N	CF18C-20001-up
FG20CN	CF34-22001-up	FGE25N	CF17D-70001-up	FD25N	CF18C-70001-up
FG20N	CF17D-10001-up	FGE20ZN	CF35-20001-up	FD30N	CF14E-10001-up
FG20ZN	CF35-10001-up	FGE25ZN	CF35-70001-up	FD35N	CF14E-80001-up
FG25N	CF17D-60001-up	FGE30N	CF13F-10001-up		
FG25ZN	CF35-60001-up	FGE35N	CF13F-80001-up		
FG30N	CF13F-40001-up				
FG35N	CF13F-60001-up				

1.15 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.)

1.16 Removal Sequence of Engine and Transmission Assembly



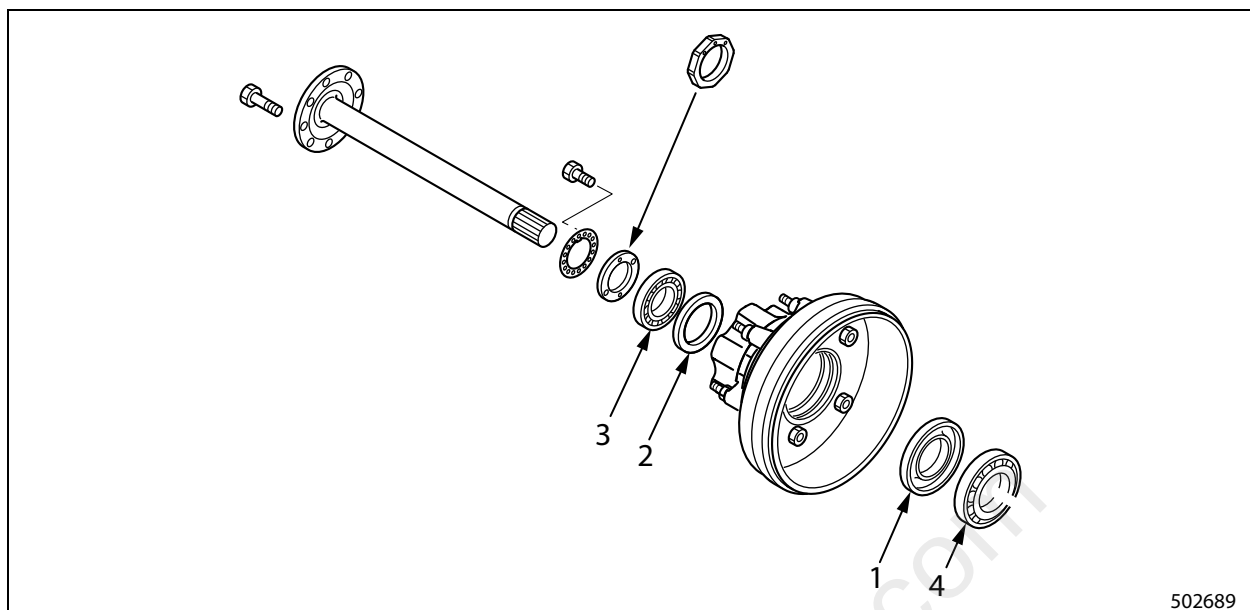
1. Transmission mounting bolt
2. Engine mounting bolt
3. Engine and transmission assembly

1.17 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 and clutch oil.
- Only one drain plug is provided on the powershift transmission.



502689

- | | |
|----------------------------|--|
| 1. Oil seal
2. Oil seal | 3. Tapered roller bearing
4. Tapered roller bearing |
|----------------------------|--|

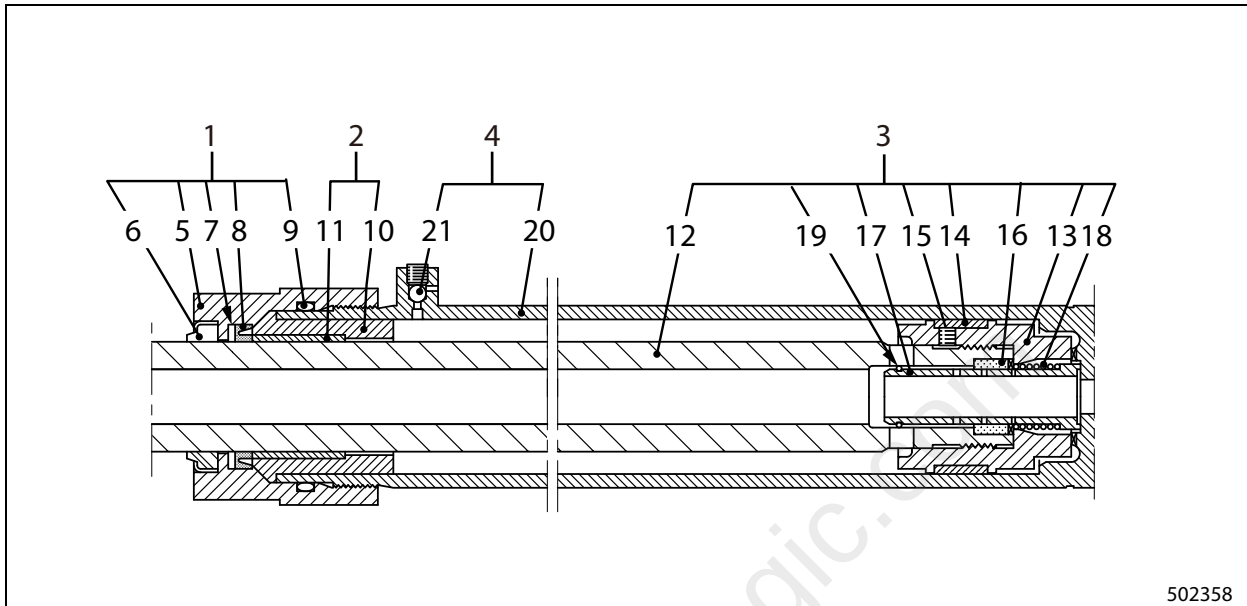
Special tool (Installer)		Truck classifications	
		1 ton class	2, 3 ton classes
1	Oil seal	91A68-00500	
2	Oil seal	91B68-00900	91E68-00700
3	Tapered roller bearing		91E68-00900
4	Tapered roller bearing		91E68-00800

- Apply sealant (ThreeBond 1184) to the flange surfaces of the axle shaft.

Note: DO NOT apply grease or oil to outer peripheral portion of oil seal when installing.

17. Lift cylinders, Removing (Second Cylinder for Duplex Mast)

17.1 Disassembly Sequence



502358

- | | |
|------------------------------|-------------------|
| 1. Holder subassembly | 12. Rod |
| 2. Head subassembly | 13. Piston |
| 3. Piston rod subassembly | 14. Slide ring |
| 4. Cylinder tube subassembly | 15. Set screw |
| 5. Holder | 16. Check valve |
| 6. Wiper ring | 17. Cushion spool |
| 7. Back-up ring | 18. Spring |
| 8. U-ring | 19. Snapring |
| 9. O-ring | 20. Tube assembly |
| 10. Head | 21. Plug |
| 11. Bushing | |

17.2 Suggestions for Disassembly

Removing piston

Be careful not to damage the piston seals and cylinder bore surface when pulling out the piston from the cylinder.

18. Lift Cylinder (Second for Duplex Mast), Inspecting

Cylinder tube

- Check the bore surface for excessive wear, scratches and rust.
- Check welds for cracks or dents.

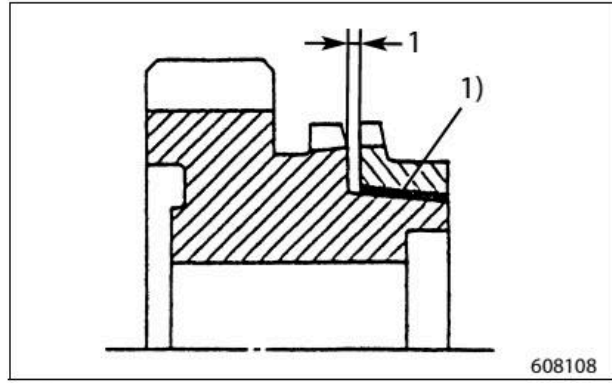
Piston rod

- Check rod deflection.
- Check the rod surface for scratches, rust or wear.

Rings, packings and threaded portions

- Check seal lips for damage, wear, or deterioration.
- Check threaded portions for damage.

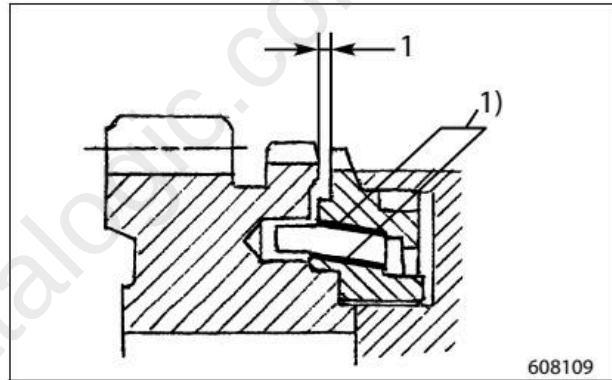
- (2) Check cones for wear or damage.
- (3) Measure the axial clearance between the gear and synchronizer ring.



H-L

1. Clearance (H-L)

1) Cone



F-R

1. Clearance (F-R)

1) Cone

Item		Ref.	Standard	Limit
Axial clearance between gear and ring	H-L	1	1.75 mm (0.0689 in.)	0 mm (0.00 in.)
	F-R	2	1.85 mm (0.0728 in.)	0.25 mm (0.0098 in.)

Full Version Available

Mitsubishi FG18N Forklift Service Manual (99719-1F120)

Mitsubishi FG18N forklift service manual PDF, covers engine, hydraulics, drive train, and wiring schematics. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/mitsubishi-fg18n-forklift-service-manual-99719-1f120/>