

Service Manual

01

Torque converter Transmission

RF80C-76F4

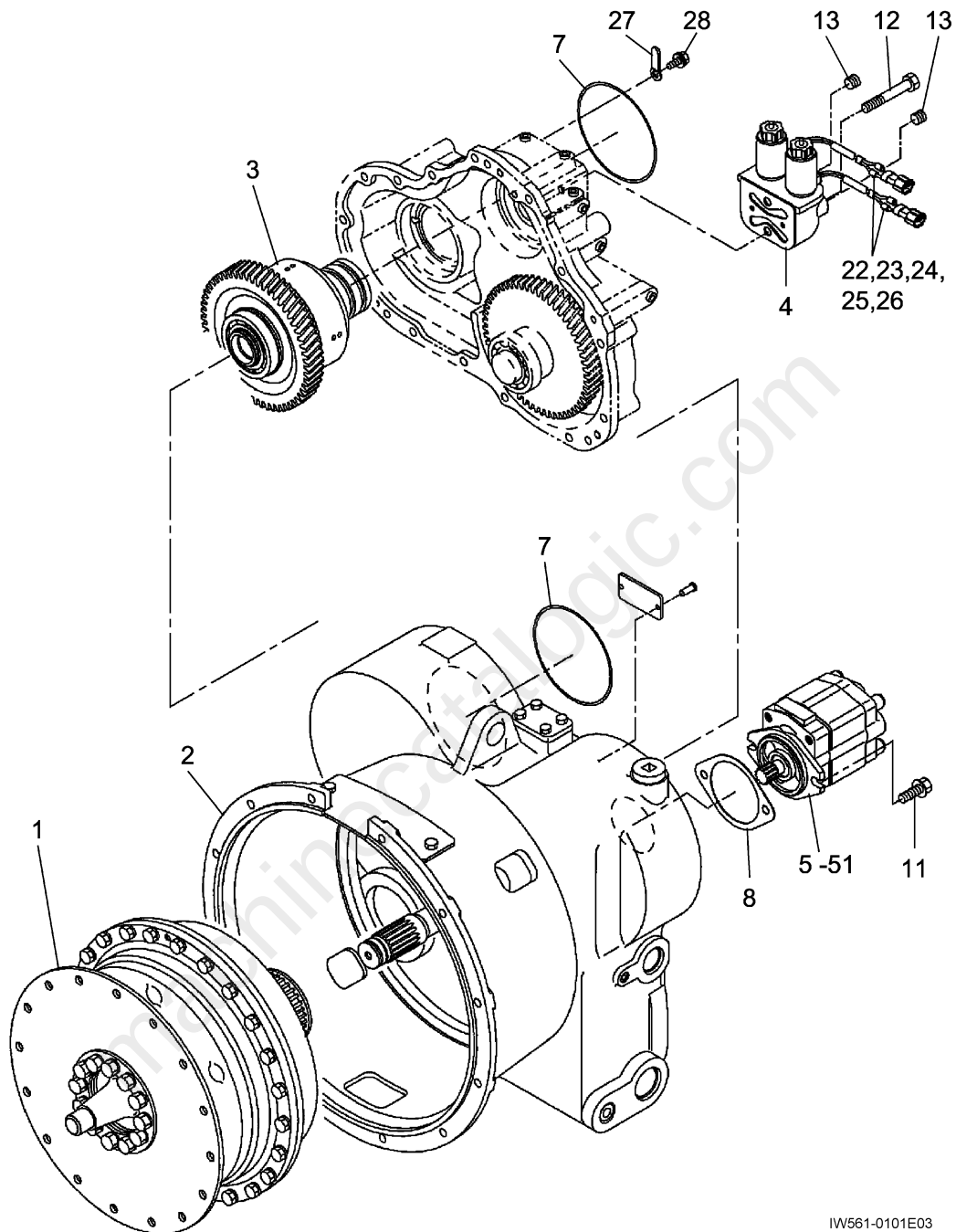
Model

RF80M-77J0



Structure

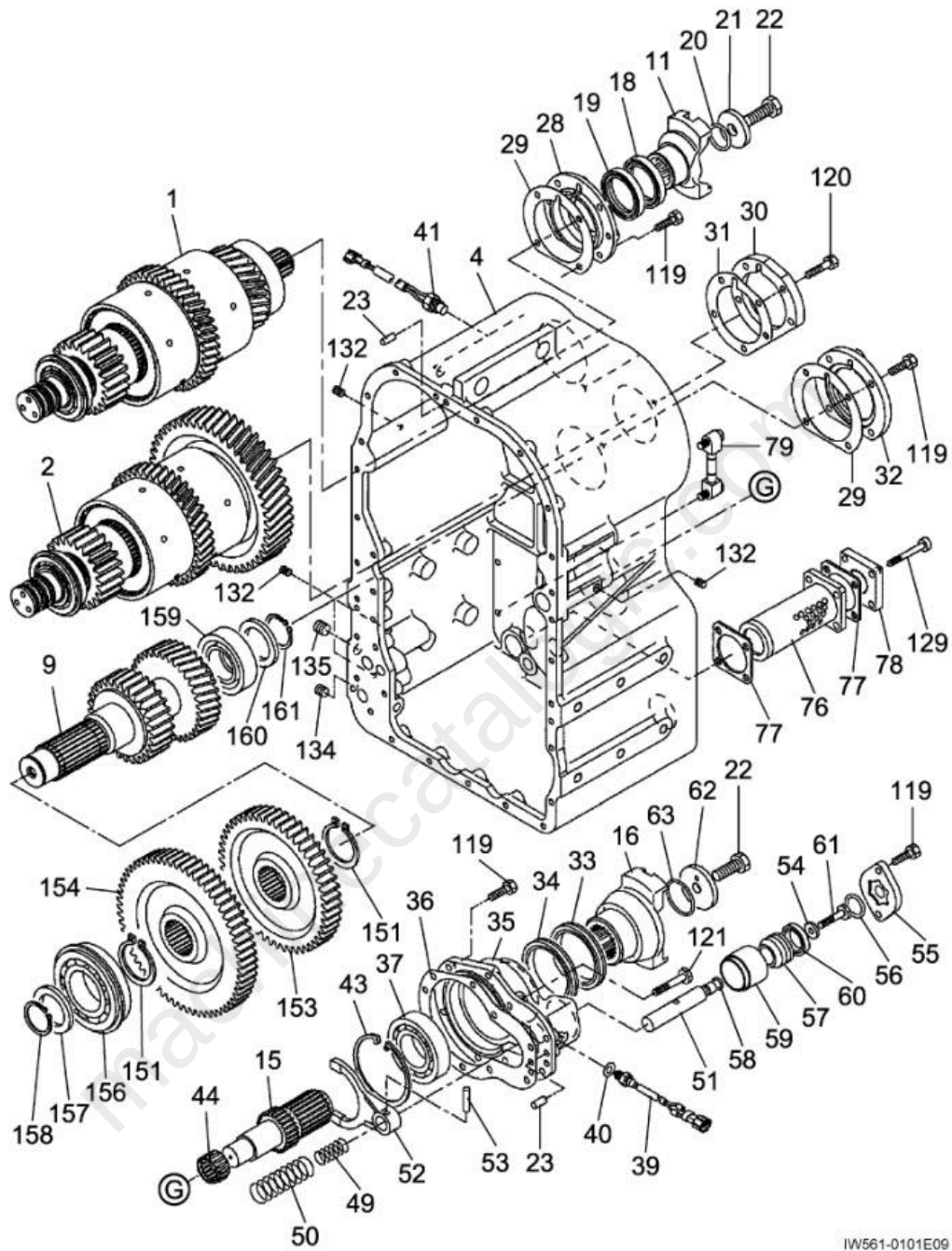
1.3 Torque converter exploded view



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- | | | | |
|---------------------------------------|---------------|-----------------|---------------|
| 1. Torque converter circuit | 6.--- | 11. Flange bolt | 24. Mark band |
| 2. Torque converter transmission assy | 7. O-ring | 12. Bolt | 25. Mark band |
| 3. Hydraulic clutch assy | 8. Gasket | 13. Plug | 26. Mark band |
| 4. Solenoid valve assy | 9. Name plate | 22. Mark band | 27. Clip |
| 5. Gear pump assy | 10. Rivet | 23. Mark band | 28. Bolt assy |

Structure

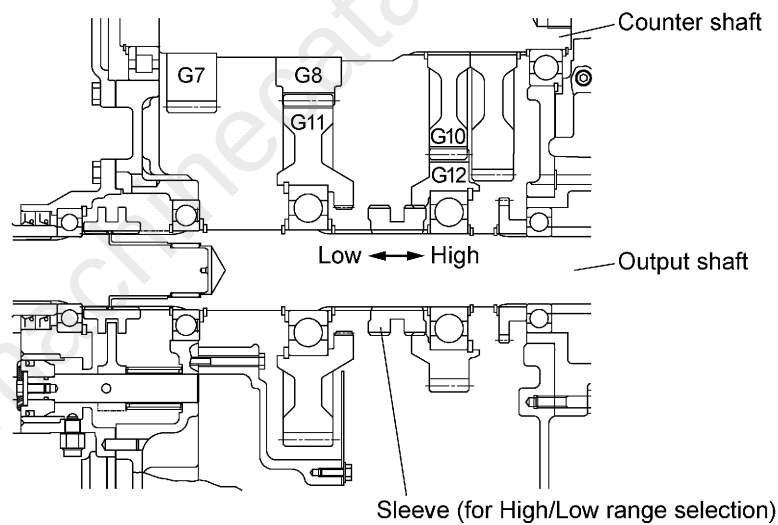
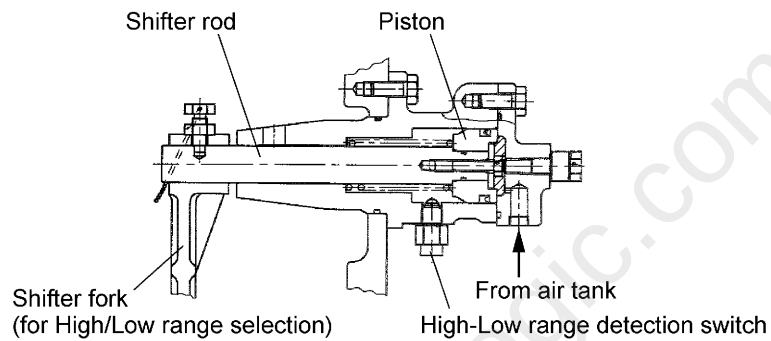


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Function

2.11 High/Low range selection

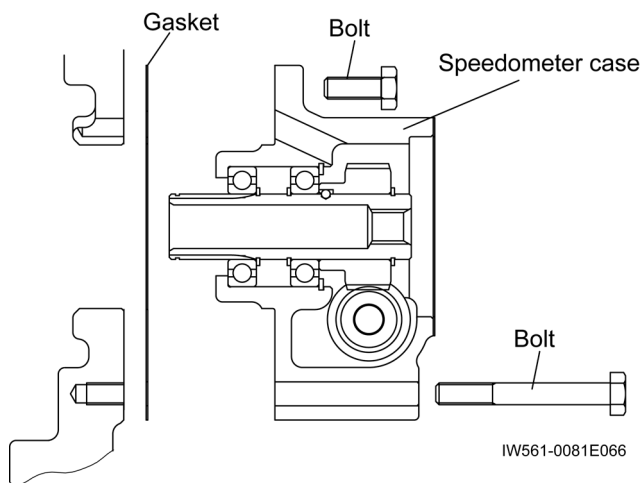
1. This selector is actuated by an air cylinder.
2. The pressurized air from the air tank pushes the piston and the shifter fork, mechanically connected to the piston, to move the sleeve (for High/Low range selection). This changes the drive mode from High range to Low range. A switch is provided to detect the Low range position.



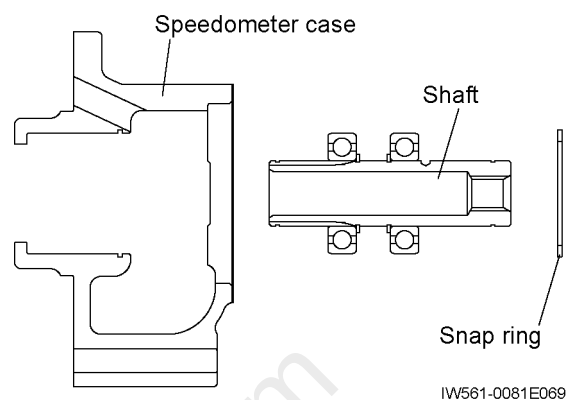
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Disassembly

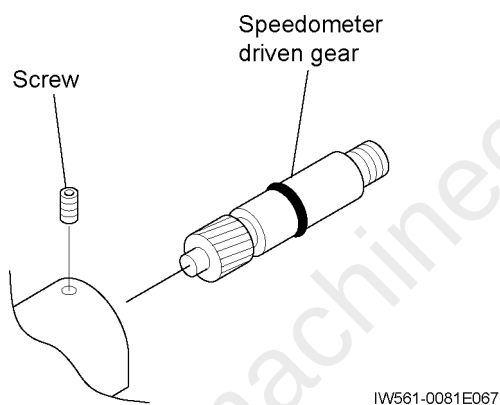
18. Remove bolts(M10, 5pcs.), and remove speedometer with shaft assy from housing cover, and remove gasket.



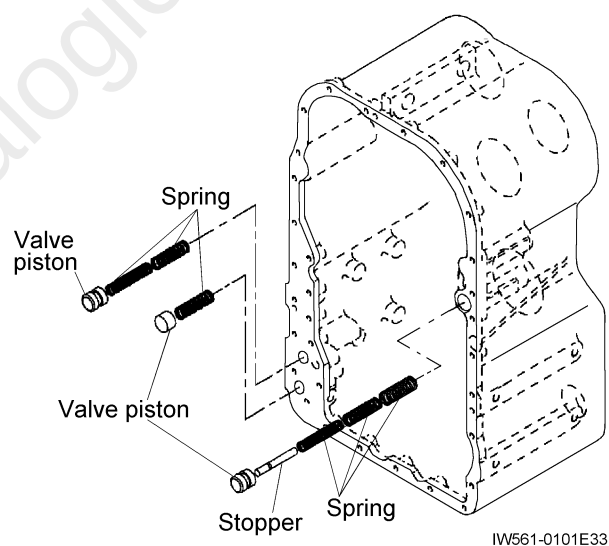
21. Remove snap ring, and pull out shaft from speedometer.



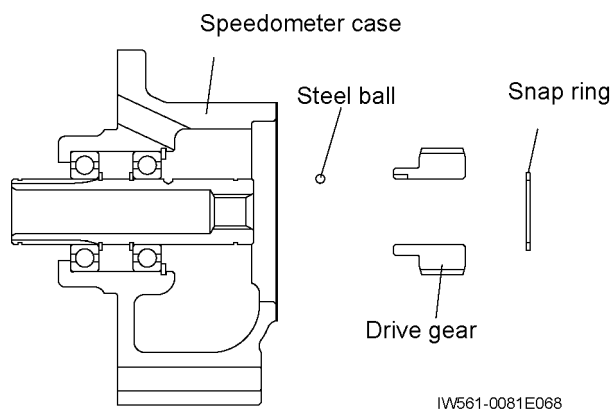
19. Remove screw (M8), and pull out speedometer driven gear.



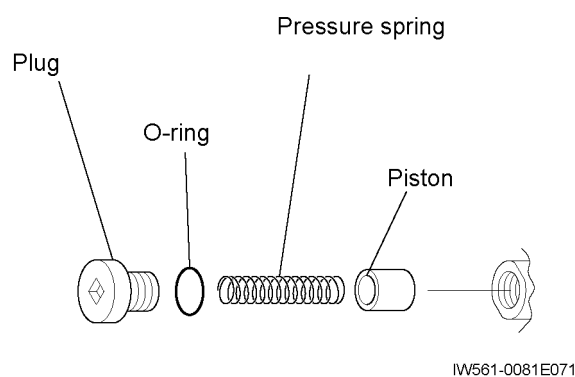
22. Pull out valve pistons, springs and stoppers from housing.



20. Remove snap ring, and take out drive gear and steel ball.



23. Remove plug with O-ring from front housing, and remove pressure spring and piston.



Reassembly

[NOTICE]

- ◆ Perform reassembly operations in the reverse order of disassembly while paying attention to the following notes.

1. Torque converter

1. Wash disassembled parts in clean oil and remove foreign material from them. Especially carefully clean oil grooves and oil passages. But it is not necessary to wash O-rings, D-shaped rings, oil seals, disks and gaskets.
2. Replace O-rings, D-shaped rings, oil seals and gaskets with new ones.
3. Tighten bolts to the specified torque. (See Tightening Torque Table.)
4. Wind sealing tape on threads before screwing taper pipe threaded parts. Be careful not to allow any fragments of sealing tape to enter hydraulic circuits.
5. Degrease threads before applying threadlockers to them. Be careful not to allow residual locking compound to enter hydraulic circuits.
6. When installing an oil seal, pack the space between lips with Albania Grease No. 2 or No. 3 to approx. one-third to a half of the space volume.
7. Adjust shim thickness at the turbine shaft end to keep a clearance of 0 - 0.2 mm(0-0.008 in).
8. At the end of reassembly operation, make sure that all sliding parts can move smoothly.

2. Transmission

1. Wash disassembled parts in clean oil and remove foreign material from them. Especially carefully clean oil grooves and oil passages. But it is not necessary to wash O-rings, D-shaped rings, oil seals, disks and gaskets.
2. Replace O-rings, D-shaped rings, oil seals and gaskets with new ones.
3. Wash parts (spools and pistons) of the main pressure regulating valve, torque converter inlet relief valve, the lubricating oil flow control valve and control valve that are built in the converter housing, and apply genuine oil to them before installing them.
4. Tighten bolts to the specified torque. (See Tightening Torque Table.)
5. Wind sealing tape on threads before screwing taper pipe threaded parts. Be careful not to allow any fragments of sealing tape to enter hydraulic circuits.
6. Degrease threads before applying threadlockers to them. Be careful not to allow residual locking compound to enter hydraulic circuits.
7. When installing an oil seal, pack the space between lips with Albania Grease No. 2 or No. 3 to approx. one-third to a half of the space volume. Pack the space between oil seals in tandem at the output flange with the grease to approx. one-third of the volume.
8. Before installing O-rings and U-shaped gaskets, apply thin coat of grease (Albania No. 2) to them to prevent any cuts and nicks.
9. At the end of reassembly operation, make sure that all sliding parts can move smoothly.

Full Version Available

Tadano RF80C-76F4 and RF80M-77J0 Transmission Service Manual

Tadano RF80C-76F4, RF80M-77J0 transmission service manual with troubleshooting, disassembly, reassembly and test procedures. Instant PDF download.

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