FORD 10R60, 10R80, 10R90; GM 10L60/80/90 (GEN. 1)



Critical Wear Areas & Vacuum Test Locations

Drop-In Zip Valve™ Parts Available

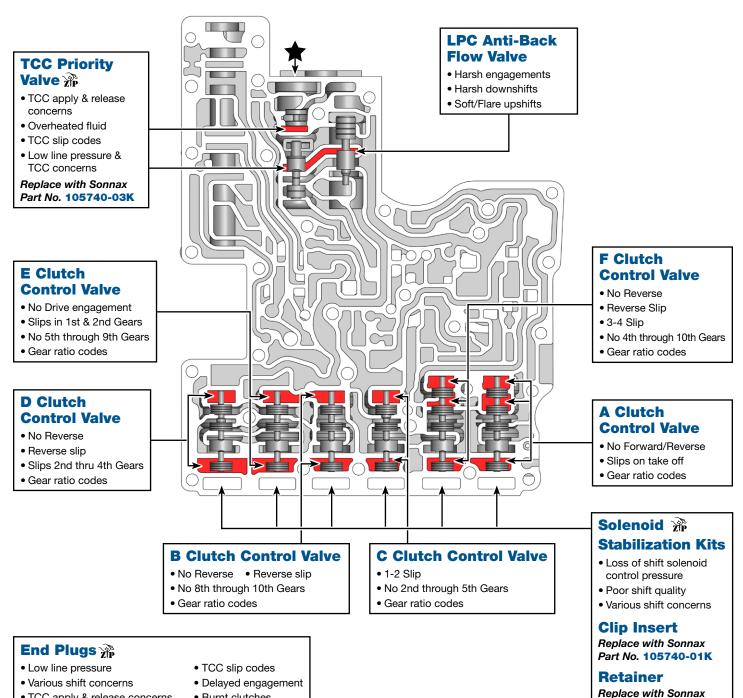
NOTE: OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear and Sonnax parts are noted for replacement.

Lower Valve Body • 10R80 Shown



For specific vacuum test information, refer to individual part instructions included in kits and available at www.sonnax.com.

Click on Sonnax part numbers to see more information.



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Burnt clutches

10L80-VacTestGuide 04-02-24

Part No. 105740-19K

Replace with Sonnax Part Nos. 105740-13K

TCC apply & release concerns

Overheated fluid



Critical Wear Areas & Vacuum Test Locations Zip Drop-In Zip Valle Parts Available





NOTE: OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear and Sonnax parts are noted for replacement.





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F Clutch Latch

- Delayed/Harsh Reverse
- No 4th through 10th Gears
- Gear ratio codes

B Clutch Latch

- Poor Reverse engagement
- No 8th through 10th Gears
- Gear ratio codes

C Clutch Latch

- 1-2 Slip
- No 2nd through 5th Gears
- Gear ratio codes

Bypass Valve

- Overheated fluid
- Lube failure
- · Low cooler flow
- Overheating
- Low pressure-to-balance pistons

Lube Control Valve

- Overheated fluid
- Lube failure
- Low cooler flow
- Overheating
- Low pressure-to-balance pistons

- **End Plugs** % • Low line pressure
- Various shift concerns
- TCC apply & release concerns
- Overheated fluid

Replace with Sonnax Part Nos. 105740-13K

★ = Two Locations (One in upper and one in lower valve body).

A Clutch Latch

- No Forward/Reverse
- Harsh engagements
- Gear ratio codes

Clutch Gain **Control Valve**

- 4/5 Harsh/Flare
- Harsh 6th to 4th gear downshifts/passing gear
- Passing gear flare back to 4th

TCC Regulator Valve

- TCC apply & release concerns
- Low TCC apply pressure in full lockup
- Converter shudder & TCC slip

Replace with Sonnax Part Nos. 105740-15K Fits Ford 10R60/80/90

105740-16K Fits GM 10L60/80/90 (Gen. 1)

105740-17K Fits GM 10L60/80/90 (Gen. 2) All Require F-105740-TL16 & VB-FIX

Main Pressure 2 **Regulator Valve**

- Low line pressure
- Various shift concerns
- Delayed engagement
- Poor shift quality
- Burnt clutches
- TCC apply & release concerns

Replace with Sonnax Part Nos. 105740-12K or 105740-20K

Requires F-105740-TL20 & VB-FIX

LPC Signal Damper Piston 🔊

- Harsh shifts
- High line pressure

Replace with Sonnax Part Nos. 105740-04K

NOTE: Keep hole on backside of valve body uncovered while testing.

TCC Signal Damper Piston 🦓

- Lube failures
- TCC apply & release concerns
- Overheated fluid
- Overheated converter
- Delayed engagement

Replace with Sonnax Part No. 105740-06K

NOTE: Keep hole on backside of valve body uncovered while testing.

• TCC slip codes

Burnt clutches

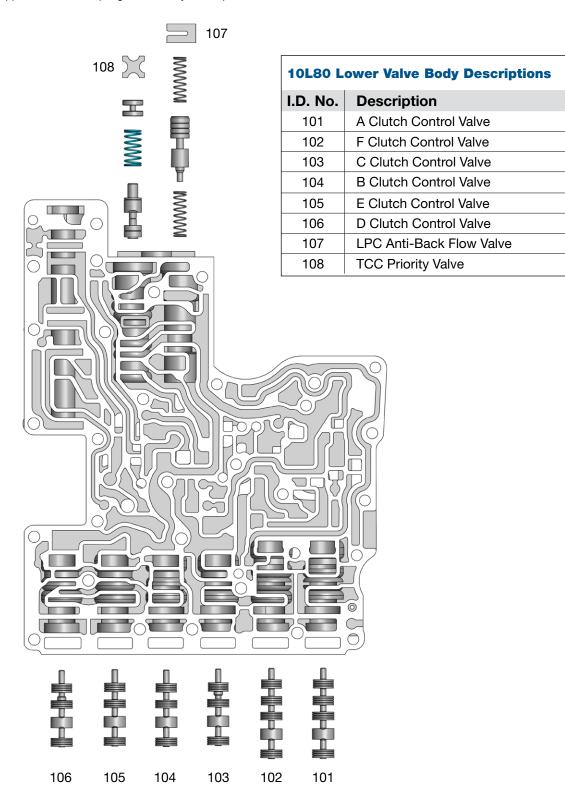
• Delayed engagement



OE Exploded View

Lower Valve Body • 10L80 (Gen. 1) Shown

NOTE: Depending upon vehicle application, the OE springs shown may not be present.





OE Exploded View

Upper Valve Body • 10L80 (Gen. 1) Shown

NOTE: Depending upon vehicle application, the OE springs shown may not be present.

