

Critical Wear Areas & Vacuum Test Locations Zip



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.

Valve Body • 4L60-E Shown

***NOTE:** Valve designs vary by year, however all port locations for vacuum testing are the same.

For specific instructions

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.

3-4 Shift Valve

- 2nd Gear starts 3rd Clutch failure
- Low AFL pressure 3-4 Concerns

Replace with Sonnax Part No. 77754-42K

Requires F-77754-TL42 & VB-FIX

4-3 Sequence Valve & 3-4 Relay Valve

- No 4th 2-4 Band burned
- Low 4th gear pressure

Replace with Sonnax Part Nos. 77964-04K Requires 77964-RM2 or 77964-14K Requires F-77964-TL14 & VB-FIX

End Plugs 🛣

- Loss of D3 oil No 4th
- Loss of 4th signal oil
- Drops out of 4th

Replace with Sonnax Part No. 77964-08K

NOTE: Check for visual wear on plugs.

TCC Regulator Valve*

- Code 894, 1870 Low line pressure
- Overheated converter 1-2 Harsh
- Low TCC apply pressure
- 3-4 Clutch burned

 Replace with Sonnax Part Nos.

 77754-03K
 Non EC3 '97-Earlier or

 77754-04K
 EC3 '98-Later or

 77754-ISO
 EC3 '98-Later or

Requires varying combinations of tools.**

Reverse Abuse Bore Plug

- Delayed Reverse
- 3-4 Clutch burned
- Burnt Low/Reverse clutch

Replace with Sonnax Part Nos. 77754-21 or 77754-58K

77754-58K Requires F-77754-TL58 & VB-FIX

3-2 Control Valve*

• 3-2 Concerns

NOTE: Some models (as shown) require spring removal to allow valve to be positioned at bottom of bore for testing.

Reverse Abuse Valve 38

- Delayed Reverse
- Low/Reverse clutch distress
- Damaged valve body casting

Replace with Sonnax Part Nos. 77754-35K or 77754-58K

77754-58K Requires F-77754-TL58 & VB-FIX

Forward Abuse Valve

- Delayed Forward
- Forward clutch distress
- Damaged valve body casting

Replace with Sonnax Part Nos. 77754-35K or 77754-58K

77754-58K Requires F-77754-TL58 & VB-FIX

NOTE: Check for visual bore wear.

Forward Abuse Bore Plug

- 3-4 Clutch burned
- Burnt Low/Reverse clutch
- 2-4 Band burned

Replace with Sonnax Part Nos. 77754-21 or 77754-58K 77754-58K Requires F-77754-TL58 & VB-FIX

Low Overrun Valve

- Burnt Low/Reverse clutch
- No Reverse No Manual 1st

Replace with Sonnax Part No. 77754-62K

Requires F-77754-TL62 & VB-FIX

1-2 Shift Valve

- Wrong gear starts
- Gear ratio codes

2-3 Shift & 2-3 Shuttle Valves

- Wrong gear starts
- Gear ratio codes

Actuator Feed Limit Valve

- Wrong gear starts Clutch failure
- Solenoid performance codes
- No 4th Harsh shifts 2nd Gear starts

Replace with Sonnax Part No.

77754-09K Requires 77754-TL

Accumulator Valve & Sleeve XP

- 1-2 Bang at light throttle
- Reduced 2-4 band life

Replace with Sonnax Part Nos. 77777L-K .330" Dia. or 77777M-K .341" Dia.

NOTE: Check for visual wear in sleeve.

**Tool Combinations Required for TCC Regulator Valve: F-77754-TL4, 77754-R2, 77754-SERV. & VB-FIX

depending on particular valve body; SEE INSTRUCTIONS TO DETERMINE

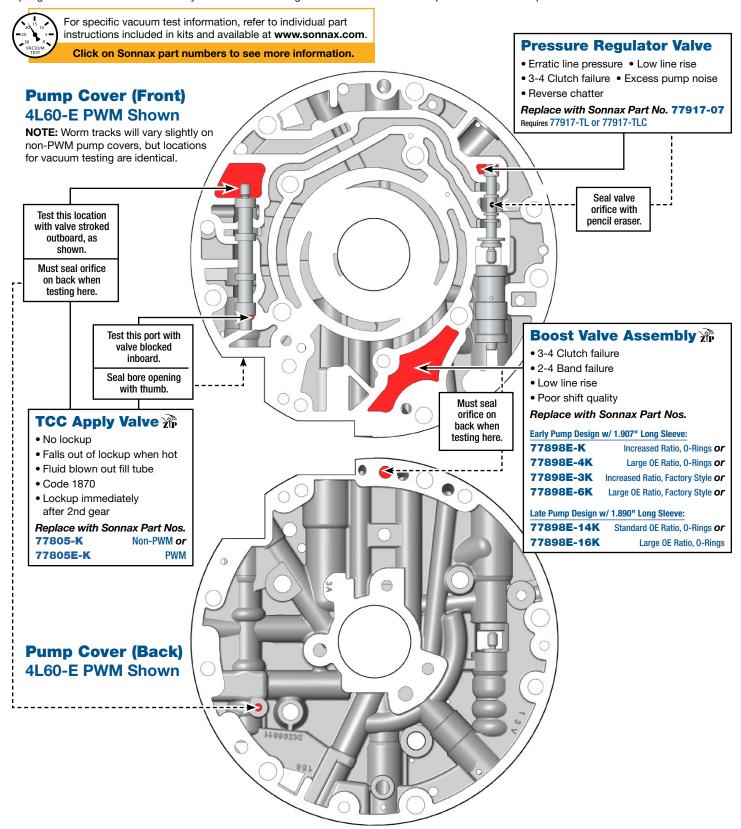
4L60-E_VacTestGuide 03-18-24



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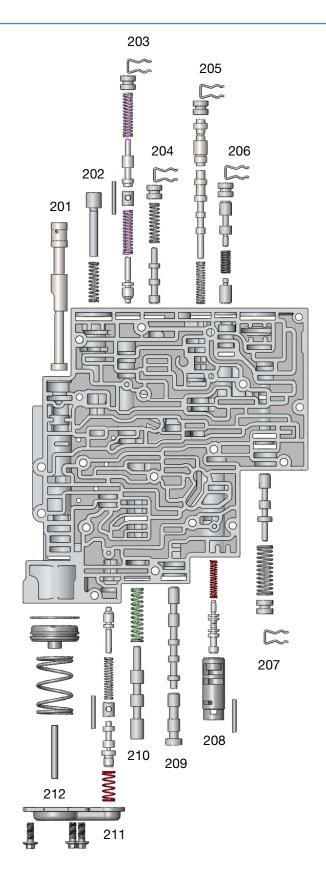


OE Exploded View

NOTE: Solenoids not shown.

Valve Body • 4L60-E Shown

Valve Body Descriptions		
I.D. No.	Description	
201	Manual Valve	
202	3-2 Control Valve	
203	Reverse Abuse Valve (Inboard), 3-2 Downshift Valve (Outboard)	
204	3-4 Shift Valve	
205	4-3 Sequence Valve (Inboard), 3-4 Relay Valve (Outboard)	
206	TCC Regulator Valve	
207	Actuator Feed Limit Valve	
208	Accumulator Valve & Sleeve	
209	2-3 Shift Valve (Inboard), 2-3 Shuttle Valve (Outboard)	
210	1-2 Shift Valve	
211	Forward Abuse Valve (Inboard), Low Overrun Valve (Outboard)	
212	Forward Accumulator Piston	



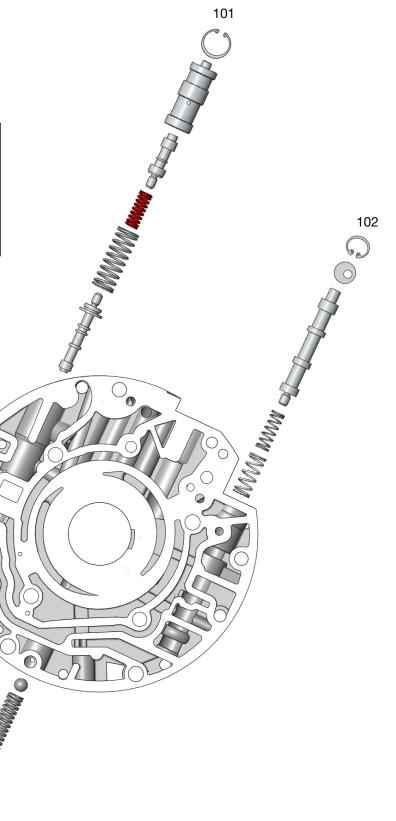


OE Exploded View

NOTE: Worm tracks will vary on non-PWM pump covers.

Pump Cover • 4L60-E PWM Shown

PWM Pump Cover Descriptions		
I.D. No.	Description	
101	Pressure Regulator Valve & Boost Valve Assembly	
102	TCC Apply Valve	
103	Pressure Relief Ball & Spring	



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