

# **Critical Wear Areas & Vacuum Test Locations**



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 and solenoids are not shown for visual clarity. Low vacuum reading indicates wear.

## 4L60-E - Valve Body

Click on Sonnax part numbers to see more information.

### 3-4 Shift Valve

- 2nd Gear starts
- 3rd Clutch failure
- 3-4 Shift complaints
- Loss of AFL pressure

Replace with Sonnax Part No. 77754-42K

Requires F-77754-TL42 & VB-FIX

## 3-2 Control Valve\* Manual Valve\*

## Reverse Abuse **Bore Plug**

- Delayed reverse
- 3-2 Downshift tie-up

Replace with Sonnax Part No. 77754-21

• Burned reverse input clutch

77754-35K

Replace with Sonnax Part No.

NOTE: Check for visual bore wear.

### **4-3 Sequence Valve End Plugs**

- No 4th gear
- Low 4th gear pressure
- Burned 2-4 band

Replace with Sonnax Part No. 77964-04K Requires 77964-RM2

- No 4th gear
- Converter issues
- Loss of manual 3rd
- Burned overrun clutch

Replace with Sonnax Part No. 77964-08K

NOTE: Check for visual wear on plugs.

## TCC Regulator Valve\*

- 1870 Slip code
- Low TCC apply pressure
- Overheated converter
- Harsh 1-2 shifts
- Burned 3-4 clutch

Replace with Sonnax Part No. **77754-03K** Non EC3 '97-Earlier EC3 '98-Later 77754-04K 77754-ISO

Requires varying combinations of tools\*

- Burned 3-4 clutch

### **Reverse Abuse Valve**

- Delayed reverse

Replace with Sonnax Part No.

### Forward Abuse **Valve**

77754-35K

# **Actuator Feed Limit Valve**

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

Replace with Sonnax Part No. 77754-09K Requires 77754-TL

# **Forward Abuse Bore Plug**

- Delayed Reverse
- Burned low/reverse clutch

Replace with Sonnax Part No. 77754-21

# **Accumulator Valve**

- 1-2 Bang shift
- Shortened 2-4 band life

Replace with Sonnax Part No. 77777L-K 77777M.K

NOTE: Check for visual wear in sleeve.

\*Tool Combinations Required for TCC Regulator Valve: F-77754-TL4, F-77754-SERV, 77754-R2, 77754-SERV. & VB-FIX depending on particular valve body;

SEE INSTRUCTIONS TO DETERMINE

\*NOTE: 1995 4L60-E valve bodies have a different manual valve, 3-2 control valve and TCC regulator valve. 2006-Later valve bodies have a different TCC regulator valve. However, all port locations for vacuum testing are the same.

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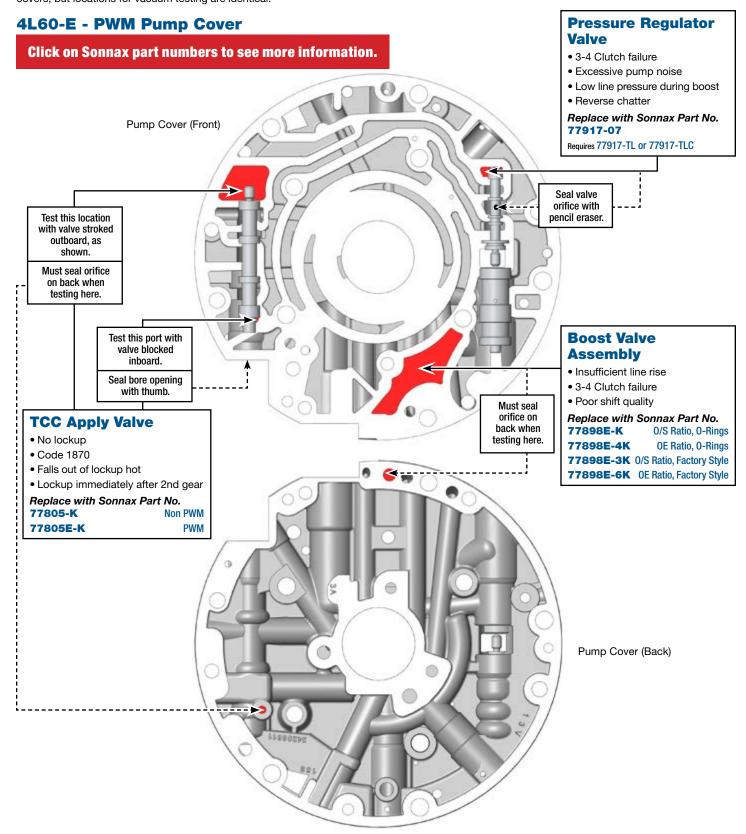
4L60-E\_VacTestLocations 11-20-14



# **Critical Wear Areas & Vacuum Test Locations**



**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. Worm tracks will vary slightly on non-PWM pump covers, but locations for vacuum testing are identical.



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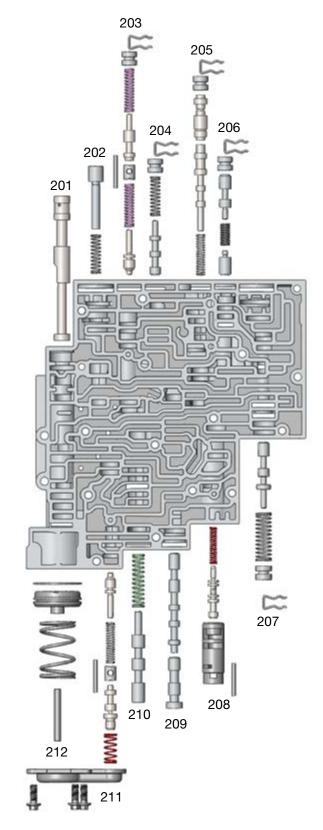


# **OE Exploded View**

NOTE: Solenoids not shown.

# 4L60-E • Valve Body Shown Here

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.

# 4L60-E • PWM Pump Cover Shown Here

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

