





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.

Lower Valve Body - Bottom Side • U250E Shown Here

Click on Sonnax part numbers to see more information.

4-5 Shift Valve

- Delayed 3rd gear
- Burned UD/C3 clutch
- Delayed or no 5th gear

B2 (Low/Reverse) Switch Valve

- Burned B2 brake
- Delayed reverse
- · Loss of engine braking in manual low

B2 (Low/Reverse) Apply Control Plunger

- Burned B2 brake
- Delayed reverse
- Loss of engine braking in manual low

Replace with Sonnax Part No. 27741-06K

B1 (2nd) Apply Control Plunger

- Burned B1 brake
- 2-3 or 4-3 Bind-up
- Harsh 1-4 shifts

Replace with Sonnax Part No. 27741-04K

NOTE: Seal port on opposite side when testing.

Boost Valve

- Insufficient line rise in drive ranges
- Soft shifts
- Higher than normal reverse pressure

Replace with Sonnax Part No. 27741-01K

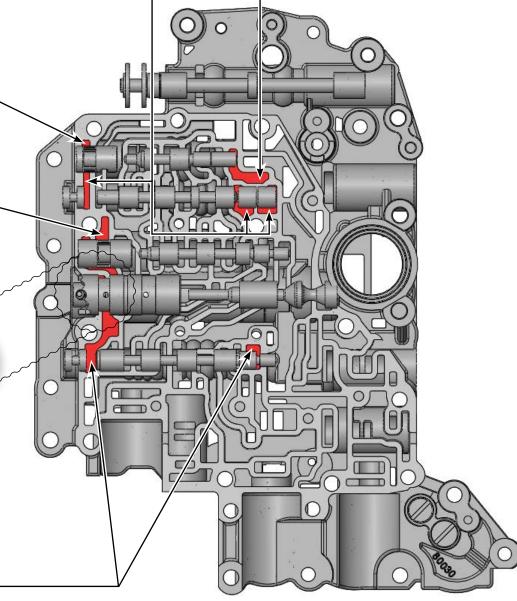
Clutch Apply Control Valve

- Shift flares & bind-ups
- Burned forward/C1 clutch, direct/C0 clutch & 2nd/B1 brake

Replace with Sonnax Part No.

27741-18K Requires F-27741-TL18 & VB-FIX

NOTE: Stroke valve to ensure it is not stuck.



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U151E-U250E-Vac-Locations 01-30-14

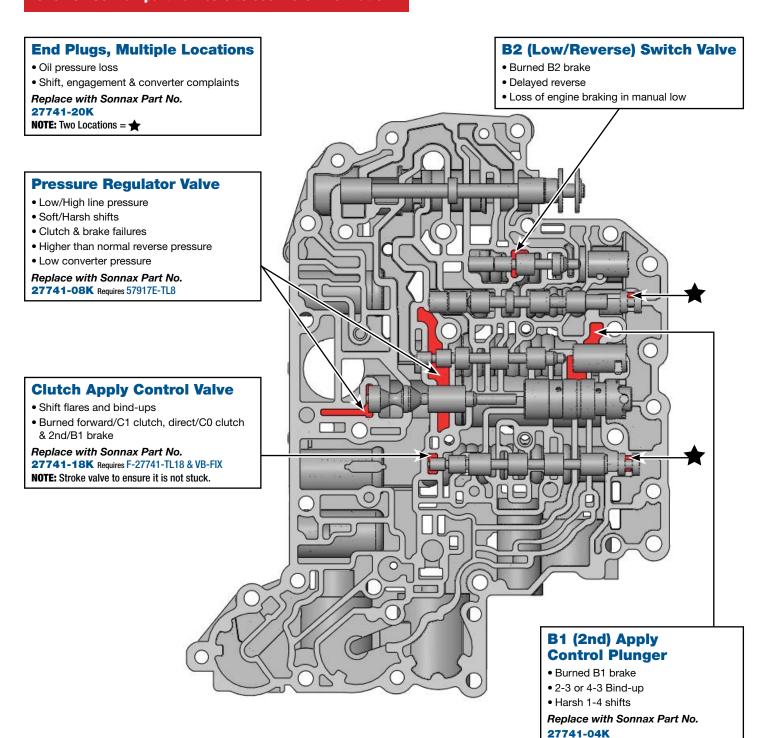




NOTE: OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear and Sonnax parts noted for replacement.

Lower Valve Body - Bottom Side • U250E Shown Here

Click on Sonnax part numbers to see more information.



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NOTE: Seal this port and test on opposite side.







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Upper Valve Body - Bottom Side • U250E Shown Here

Click on Sonnax part numbers to see more information.

Solenoid Modulator Valve

- Harsh/Flare upshifts
- TCC slip or RPM cycling
- Loss of cooler flow/ overheating

Replace with Sonnax Part No. 27741-13K

Requires F-27741-TL13 & VB-FIX

B2 (Low/Reverse) Control Valve

- Burned B2 brake
- Delayed reverse
- Delayed engagement in manual 1st

B3 Orifice Control Valve

- Burned UD/B3 brake
- Shift complaints

Replace with Sonnax Part No. 27741-16K

Requires F-15741-TI 18 & VB-FIX

NOTE: Stroke valve to ensure it is not stuck.

Accumulator Control Valve

- Shift complaints
- Burned clutches/brakes

C0 (Direct) Control Valve

- Burned C0 clutch
- Slipping/Flares in 3rd, 4th & 5th

C0 (Direct) Accumulator Piston

- Burned C0 clutch
- Slipping/Flares in 3rd, 4th & 5th

Replace with Sonnax Part No. **57917E-19K**

B1 (2nd) Accumulator Piston

- Burned B1 brake
- Slipping/Flares in 2nd, 4th & 5th

Replace with Sonnax Part No. **57917E-19K**

End Plugs, Multiple Locations

- Oil pressure loss
- Shift, engagement & converter complaints

Replace with Sonnax Part No. 27741-20K

NOTE: Eight locations = ★

Lockup Relay Valve

- TCC apply/release problems
- Converter codes
- Burnt converters/overheating

B1 (2nd) Control Valve

- Burned B1 brake
- Slipping/Flares in 2nd, 4th & 5th

Secondary Pressure Regulator Valve

- Harsh lockup
- Converter apply/release complaints
- Burnt converters

Replace with Sonnax Part No. 57917E-16K Requires F-57917E-TL16 & VB-FIX

C1 (Forward) Control Valve

- Burned C1 clutch
- Delayed engagements
- Slipping/Flares in 1st, 2nd & 3rd

NOTE: Seal these ports and test on opposite side.

C1 (Forward) Accumulator Piston

- Burned C1 clutch
- Delayed engagements
- Slipping/Flares in 1st, 2nd & 3rd

Replace with Sonnax Part No. **57917E-19K**



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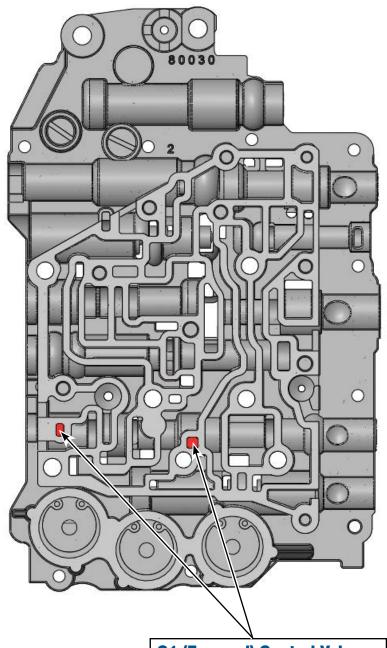
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Upper Valve Body - Top Side • U250E Shown Here



C1 (Forward) Control Valve

- Burned C1 clutch
- Delayed engagements
- Slipping/Flares in 1st, 2nd and 3rd

NOTE: Seal ports on opposite side when testing.

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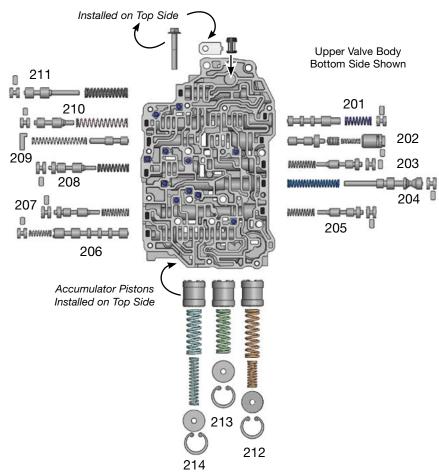
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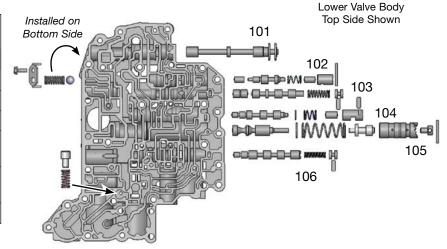
OE Exploded View

Upper & Lower Valve Body • U250E Shown Here

Upper Valve Body Descriptions		
I.D. No.	Description	
201	Lockup Relay Valve	
202	Lockup Control Valve & Plunger Valve Assembly	
203	B1 Control Valve	
204	Secondary Regulator Valve	
205	C1 Control Valve	
206	Solenoid Relay Valve	
207	C0 Control Valve	
208	Accumulator Control Valve	
209	B3 Orifice Control Valve	
210	B2 Control Valve	
211	Solenoid Modulator Valve	
212	C0 Accumulator Piston	
213	B1 Accumulator Piston	
214	C1 Accumulator Piston	



Lower Valve Body Descriptions		
I.D. No.	Description	
101	Manual Valve	
102	B2 Switch Valve & Plunger Valve	
103	4-5 Shift Valve	
104	B1 Switch Valve & Plunger Valve Assembly	
105	Main Pressure Regulator Valve & Boost Valve Assembly	
106	Clutch Apply Control Valve	



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