**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 and Sonnax parts noted for replacement. For specific vacuum test information, refer to individual part instructions included in kits and available at [www.sonnax.com](http://www.sonnax.com).

**A750 Series • Lower Valve Body**

- Block valve outboard with .218" dia. checkball.
- Seal port on back.
- Test together.

**Upper Valve Body**

- Block valve outboard with .218" dia. checkball.
- Seal port on back.

**Upper Valve Body No. 2**

- Block valve outboard with .218" dia. checkball.

Inset: View of reverse side of upper valve body. Similar location on A760 series.

See page 3 for test area IDs, transmission symptoms and recommended repairs.
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 and Sonnax parts noted for replacement. For specific vacuum test information, refer to individual part instructions included in kits and available at www.sonnax.com.

A760 Series • Lower Valve Body

Upper Valve Body

Lower Valve Body No. 2

Upper Valve Body No. 2
1. Primary Regulator Valve
   - Low/High line pressure
   - Clutch/Brake failure
   - Soft/Harsh shifts
   - Low converter pressure
   Replace with Sonnax Part No. 147741-04K
   Requires F-147741-TL4 & VB-FIX

2. Boost Assembly
   - Insufficient line rise
   - Soft/Harsh shifts
   - High reverse pressure
   - Clutch/Brake failure
   Replace with Sonnax Part No. 147741-01K

3. Lockup Relay Valve
   - Converter apply/release complaints/codes
   - Burned converter
   Replace with Sonnax Part No. 147741-07K
   Requires F-147741-TL7 & VB-FIX

4. Secondary Regulator Valve
   - Converter apply/release complaints
   - Harsh lockup
   - Lube-related failures
   Replace with Sonnax Part No. 147741-10K
   Requires F-147741-TL4 & VB-FIX

5. B1 Accumulator Piston
   - 4-5 Shift complaints (A750 Series)
   - 4-5, 5-6 Shift complaints (A760 Series)
   Replace with Sonnax Part No. 57917E-19K

6. Solenoid Modulator Valve
   - Solenoid codes
   - TCC slip/RPM cycling
   - Shift complaints
   - Low cooler flow
   Replace with Sonnax Part No. 147741-05K
   Requires F-147741-TL5 & VB-FIX

7. Clutch Control Valve
   - Harsh up/down shifts
   - Flare upshifts
   - Gear ratio/solenoid codes
   Replace with Sonnax Part No. 147741-22K
   A750 Series
   147741-14K
   A760 Series
   Requires F-147741-TL22 or F-147741-TL14 & VB-FIX

8. Lockup Control Valve
   - Harsh downshifts
   - RPM surge on coast
   - TCC apply/release complaints
   Replace with Sonnax Part No. 147741-16K
   Requires F-147741-TL16 & VB-FIX

9. Lockup Control Plunger Valve & Sleeve
   - Harsh downshifts
   - RPM surge on coast
   - TCC apply/release complaints
   Replace with Sonnax Part No. 147741-37K

10. Accumulator Control Valve
    - Shift complaints
    - Harsh shifts
    - Shift codes
    Replace with Sonnax Part No. 147741-24K
    Requires 147741-TL24

11. Accumulator Control Plunger Valve & Sleeve
    - Shift complaints
    - Harsh shifts
    - Shift codes
    Replace with Sonnax Part No. 147741-35K

12. Brake Control Valve
    - Shift complaints
    - Harsh shifts
    - Flares
    - Burnt brakes
    Replace with Sonnax Part No. 147741-28K
    Requires F-147741-TL28 & VB-FIX

13. B2 Accumulator Pistons
    - Harsh/Slipping 5-6 shifts
    - Harsh 3-2 downshifts
    Replace with Sonnax Part No. 147741-13

14. & 15. End Plugs
    Various complaints depending on locations of leaking end plug.
    14. Replace with Sonnax Part No. 147741-30K
    15. Replace with Sonnax Part No. 147741-31K

16. SLT Damper
    - Harsh/Soft shifts
    - Loss of pressure control

17. 1-2 Shift Valve

18. 2-3 Shift Valve

19. 3-4 Shift Valve

20. 4-5 Shift Valve

21. Clutch Apply Control Valve

22. Sequence Valve

23. Clutch Lock Valve

24. B1 Apply Control Valve & Assembly

25. Coast Brake Relay Valve

26. C3 Apply Relay Valve
    - Related shift complaints
    - Burnt clutches/brakes
OE Exploded View

A750 Valve Body

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

A750 Series Valve Body Descriptions

<table>
<thead>
<tr>
<th>I.D. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Manual Valve</td>
</tr>
<tr>
<td>102</td>
<td>SLT Damper</td>
</tr>
<tr>
<td>103</td>
<td>Primary Regulator Valve (inboard) Boost Assembly (outboard)</td>
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<tr>
<td>104</td>
<td>Clutch Control Valve</td>
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<tr>
<td>105</td>
<td>Clutch Apply Control Valve</td>
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<tr>
<td>106</td>
<td>Accumulator Control Valve (inboard) Accumulator Control Plunger Valve &amp; Sleeve (outboard)</td>
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<tr>
<td>107</td>
<td>Sequence Valve</td>
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<tr>
<td>201</td>
<td>Solenoid Modulator Valve</td>
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<td>202</td>
<td>Clutch Lock Valve</td>
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<tr>
<td>203</td>
<td>B1 Accumulator Piston</td>
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<tr>
<td>204</td>
<td>Secondary Regulator Valve</td>
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<tr>
<td>205</td>
<td>Lockup Relay Valve</td>
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<tr>
<td>206</td>
<td>Lockup Control Valve (inboard) Lockup Control Plunger Valve &amp; Sleeve (outboard)</td>
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<tr>
<td>207</td>
<td>C3 Check Valve</td>
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<tr>
<td>208</td>
<td>3-4 Shift Valve</td>
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<td>209</td>
<td>Brake Control Valve</td>
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<td>210</td>
<td>2-3 Shift Valve</td>
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<td>211</td>
<td>1-2 Shift Valve</td>
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<td>212</td>
<td>B1 Apply Control Valve (inboard) B1 Apply Control Plunger Valve &amp; Sleeve (outboard)</td>
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<tr>
<td>301</td>
<td>Coast Brake Relay Valve</td>
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</table>
OE Exploded View

A760 Valve Body

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

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<td>Accumulator Control Valve (inboard) Accumulator Control Plunger Valve &amp; Sleeve (outboard)</td>
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<td>103</td>
<td>SL1 Relay Valve</td>
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<td>104</td>
<td>B1 Apply Relay Valve</td>
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<td>201</td>
<td>Manual Valve</td>
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<td>SLT Damper</td>
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<td>203</td>
<td>Primary Regulator Valve (inboard) Boost Valve Assembly (outboard)</td>
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<td>204</td>
<td>4-5 Shift Valve</td>
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<td>B2 Accumulator Piston</td>
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<td>Reverse Sequence Valve</td>
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<td>C3 Check Valve</td>
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