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.

Upper Valve Body • 6F50 Shown

Direct Clutch Regulator Valve
- 2-3 & 4-5 Flare
- Delayed Reverse
- Reverse slip
- 3-5 Reverse clutch burned
- Ratio Codes
- Bind-up
Replace with Sonnax Part No.
124740-25K (1.35 Ratio)
Requires F-124740-TL26 & VB-FIX
124740-21K (1.83 Ratio)
Requires F-124740-TL21 & VB-FIX

Intermediate Clutch Regulator & Gain Valve
- 1-2 & 5-6 Flare
- 2nd & 6th Slip
- No 2nd or 6th
- Ratio codes
- 2-6 Clutch burned
- Erratic shift timing
Replace with Sonnax Part No.
124740-17K
Requires F-124740-TL17 & VB-FIX

TCC Regulator Apply Valve
- Code P0741, 742
- TCC slip
- Harsh TCC apply
- Loss of fuel economy
- Low TCC apply pressure
- Overheated fluid & TCC lining
Replace with Sonnax Part No.
124740-14K
Requires F-124740-TL14 & VB-FIX

L/R Overdrive Clutch Regulator Valve
- Burnt L/R and/or Overdrive clutch
- 4-5-6 Shift concerns
- Delayed Reverse
- 3-4 Flare

Pressure Regulator Valve
- Erratic line pressure
- Poor shift quality
- Burnt clutches
- Low converter & lube flow
- Overheating
- TCC apply & release concerns
Replace with Sonnax Part No.
124740-12K
Requires F-124740-TL12 & VB-FIX

Isolator Valve
- Low line pressure
- No line rise
- Line pressure instability
- Burnt clutches
- Harsh shifts
- Shift concerns
Replace with Sonnax Part Nos.
124740-16
(Spring Only)
124740-03K (Isolator Valve Kit)

TCC Control Valve
- Excess TCC slip
- Overheating
- Low cooler flow
- TCC apply & release concerns
- Low converter & lube flow
- TCC apply codes
- TCC lining failure
Replace with Sonnax Part No.
124740-14K
Requires F-124740-TL14 & VB-FIX

Multiplex Manual Valve
- Various shift concerns
- Shift codes

Multiplex Shift Valve
- Various shift concerns
- Shift codes

O-Ringed End Plug Kit
- Pressure loss
- Shift concerns
- Burnt clutches
- TCC apply concerns
NOTE: Vacuum test end plugs at outboard port while sealing bore opening with thumb.
Replace with Sonnax Part No.
124740-02K
NOTE: Several Locations = ★

Click on Sonnax part numbers to see more information.
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.

Lower Valve Body • 6F50 Shown

Click on Sonnax part numbers to see more information.

AFL (Actuator Feed Limit) Valve
- Solenoid performance codes
- Wrong gear starts
- Clutch failure
Replace with Sonnax Part No. 124740-01
Requires F-104740-TL12 & VB-FIX

L/R Overdrive Clutch Latch Valve
- Shift quality is not load sensitive
- Harsh shifts • Slips & flares
- Delayed engagement
- Burnt clutches
- Slide shifts • Slip codes
Replace with Sonnax Part No. 144740-23
Requires F-144740-TL22 & VB-FIX

Direct Clutch Latch Valve
- Shift quality is not load sensitive
- Harsh shifts • Slips & flares
- Delayed engagement • Burnt clutches
- Slide shifts • Slip codes
Replace with Sonnax Part No. 144740-23
Requires F-144740-TL22 & VB-FIX

Forward Clutch Latch Valve
- Shift quality is not load sensitive
- Harsh shifts • Slips & flares
- Delayed engagement
- Burnt clutches
- Slide shifts • Slip codes
Replace with Sonnax Part No. 144740-23
Requires F-144740-TL22 & VB-FIX

Forward Clutch Regulator Valve
- Burnt Forward clutch
- Delayed Forward
- 1-2-3-4 Shift concerns
NOTE: Vacuum locations are the same regardless of OE end plug design and inclusion of short shuttle valve.

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**Upper Valve Body Descriptions**

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<th>I.D. No.</th>
<th>6F50 Description</th>
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<td>102</td>
<td>Isolator Valve</td>
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<td>103</td>
<td>TCC Control Valve</td>
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<td>104</td>
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<td>107</td>
<td>L/R Overdrive Clutch Regulator Valve</td>
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<td>108</td>
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<td>109</td>
<td>Intermediate Clutch Regulator &amp; Gain Valve</td>
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<tr>
<td>110</td>
<td>Direct Clutch Regulator Valve</td>
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Lower Valve Body Descriptions

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<th>I.D. No.</th>
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<tr>
<td>202</td>
<td>Forward Clutch Regulator Valve</td>
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<tr>
<td>203</td>
<td>L/R Overdrive Clutch Latch Valve</td>
</tr>
<tr>
<td>204</td>
<td>AFL (Actuator Feed Limit) Valve</td>
</tr>
<tr>
<td>205</td>
<td>Direct Clutch Latch Valve</td>
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</tbody>
</table>