

# Critical Wear Areas & Vacuum Test Locations

**ZIP** Drop-In Zip Valve™ Parts Available

**6F50-ZIP** Zip Kit® 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.

## Upper Valve Body • 6F50 Shown



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

Click on Sonnax part numbers to see more information.

**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 Nos.  
**124740-26K** (1.35 Ratio) Requires F-124740-TL26 & VB-FIX or  
**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 Nos.  
**124740-31K** or  
**124740-24K** Requires F-124740-TL24 & 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

**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 = ★

**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 or  
**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

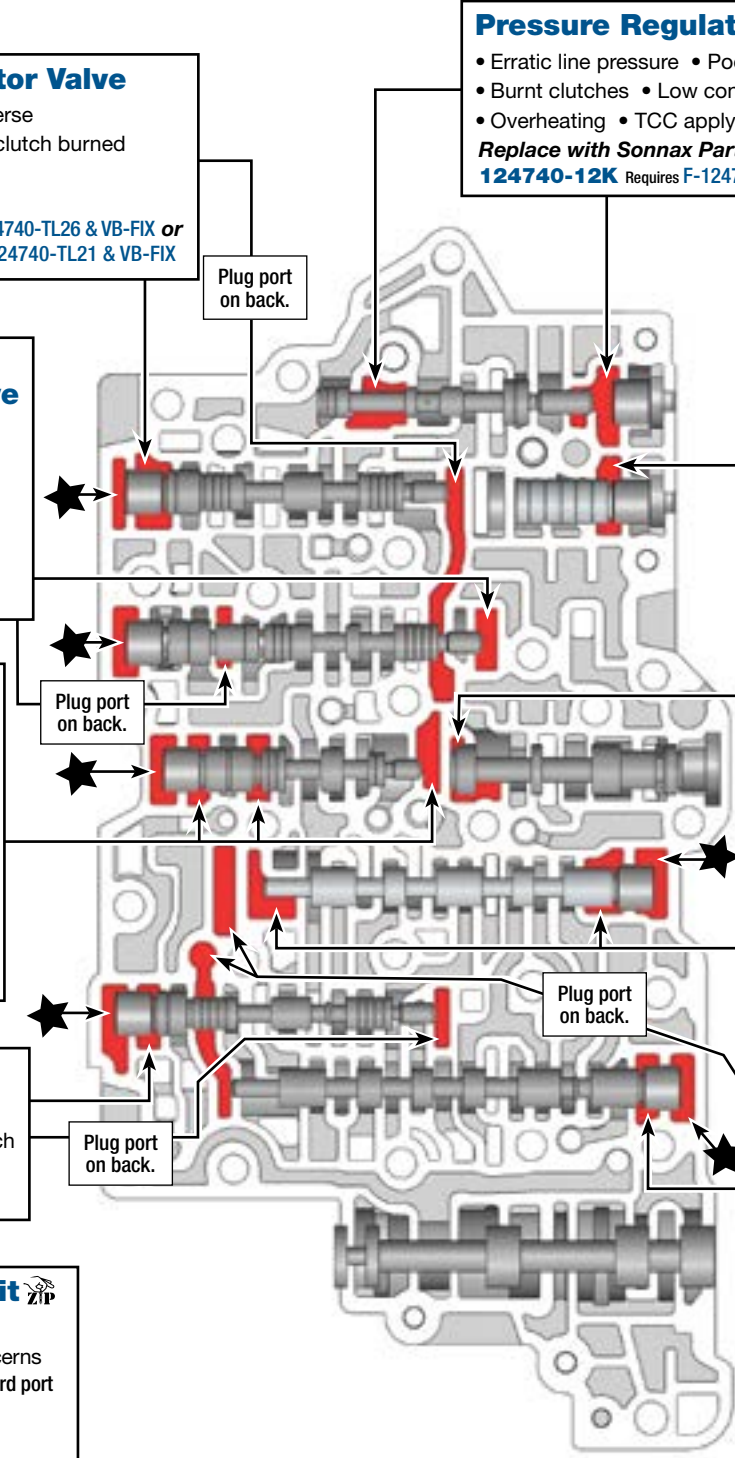
Replace with Sonnax Part No.  
**124740-14K**  
 Requires F-124740-TL14 & VB-FIX

**Multiplex Manual Valve**

- Various shift concerns
- Shift codes

**Multiplex Shift Valve**

- Various shift concerns
- Shift codes



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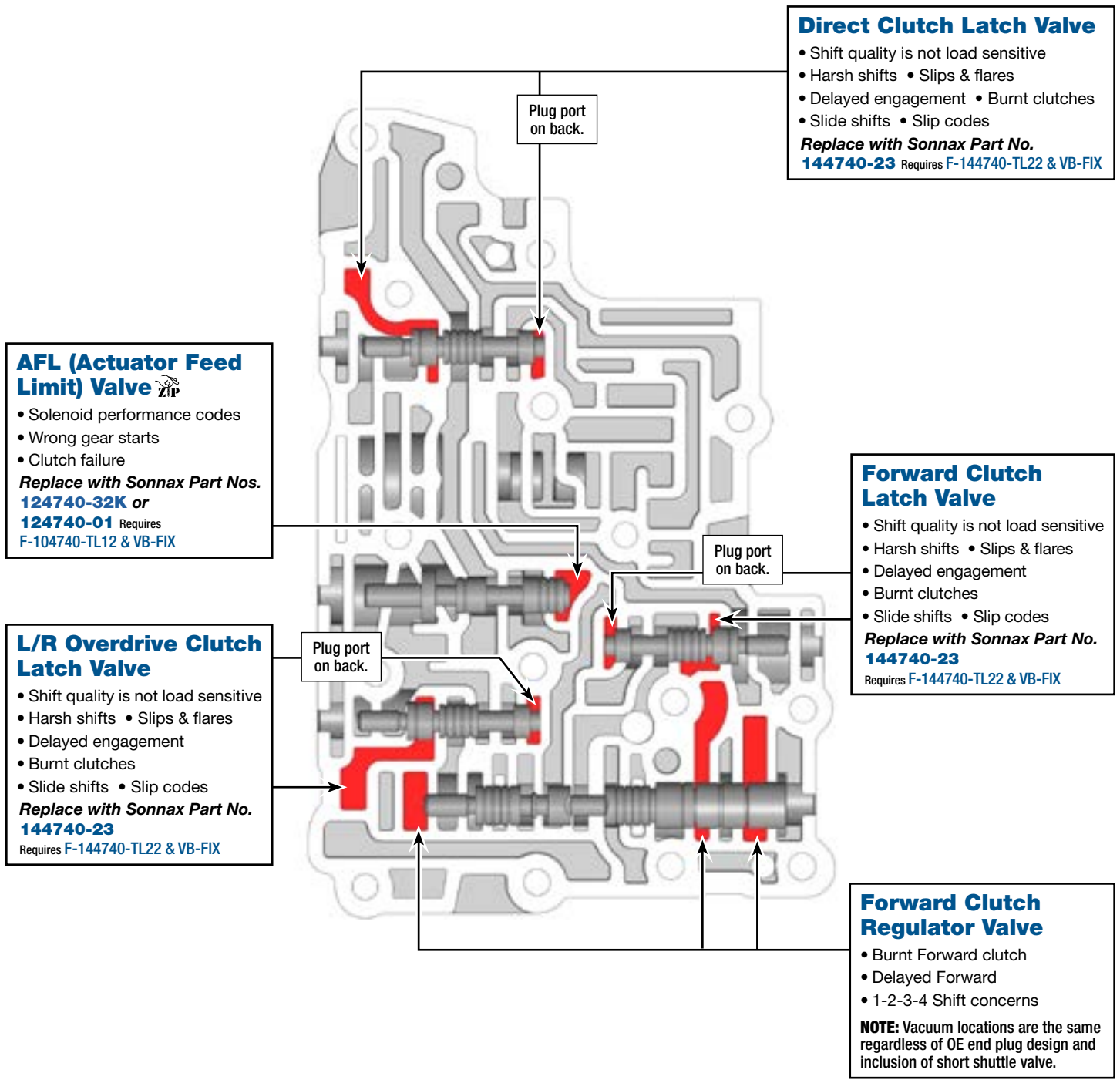
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## Lower Valve Body • 6F50 Shown



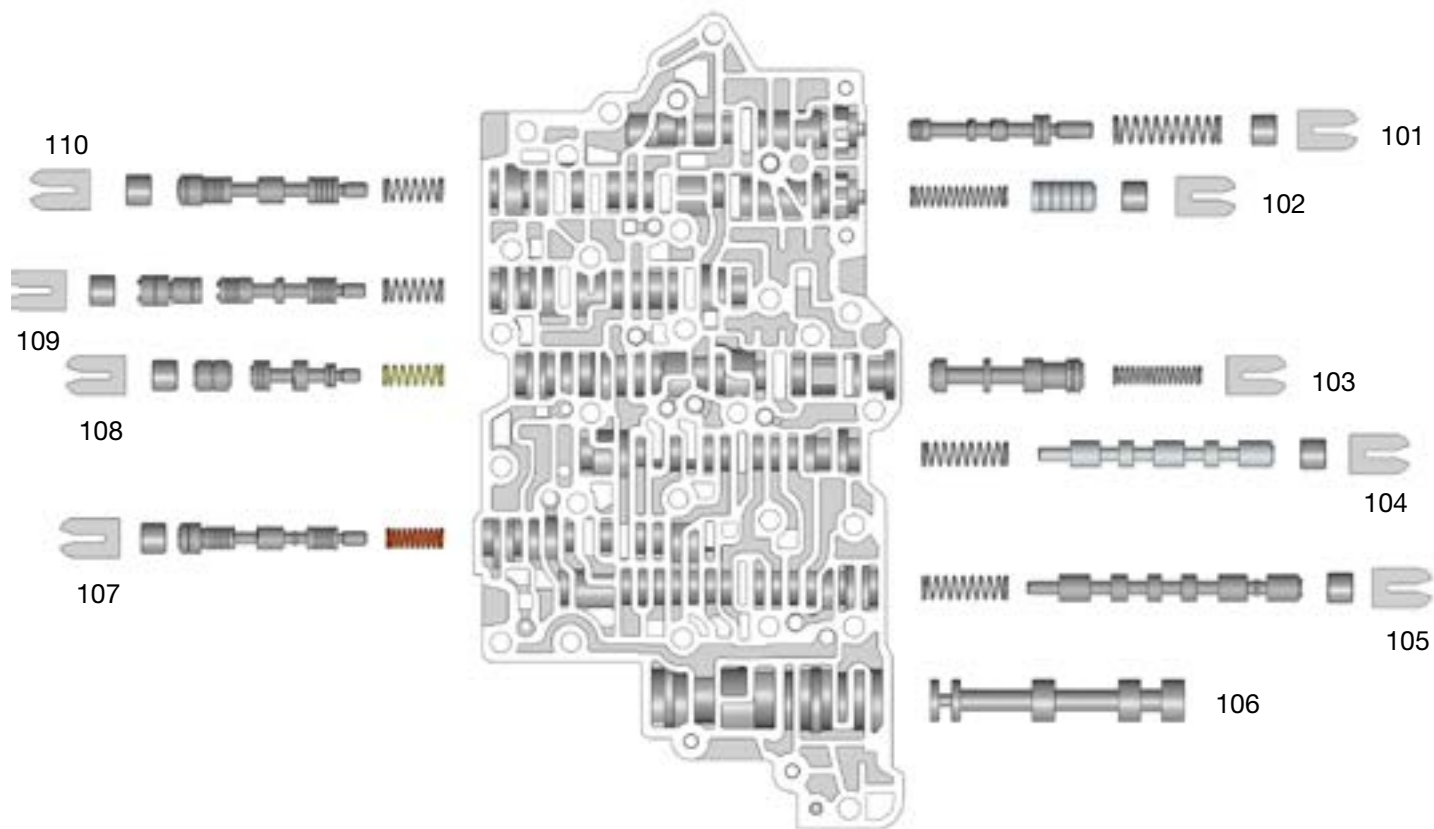
For specific vacuum test information, refer to individual part instructions included in kits and available at [www.sonnax.com](http://www.sonnax.com).

Click on Sonnax part numbers to see more information.



## OE Exploded View

### Upper Valve Body • 6F50 Shown

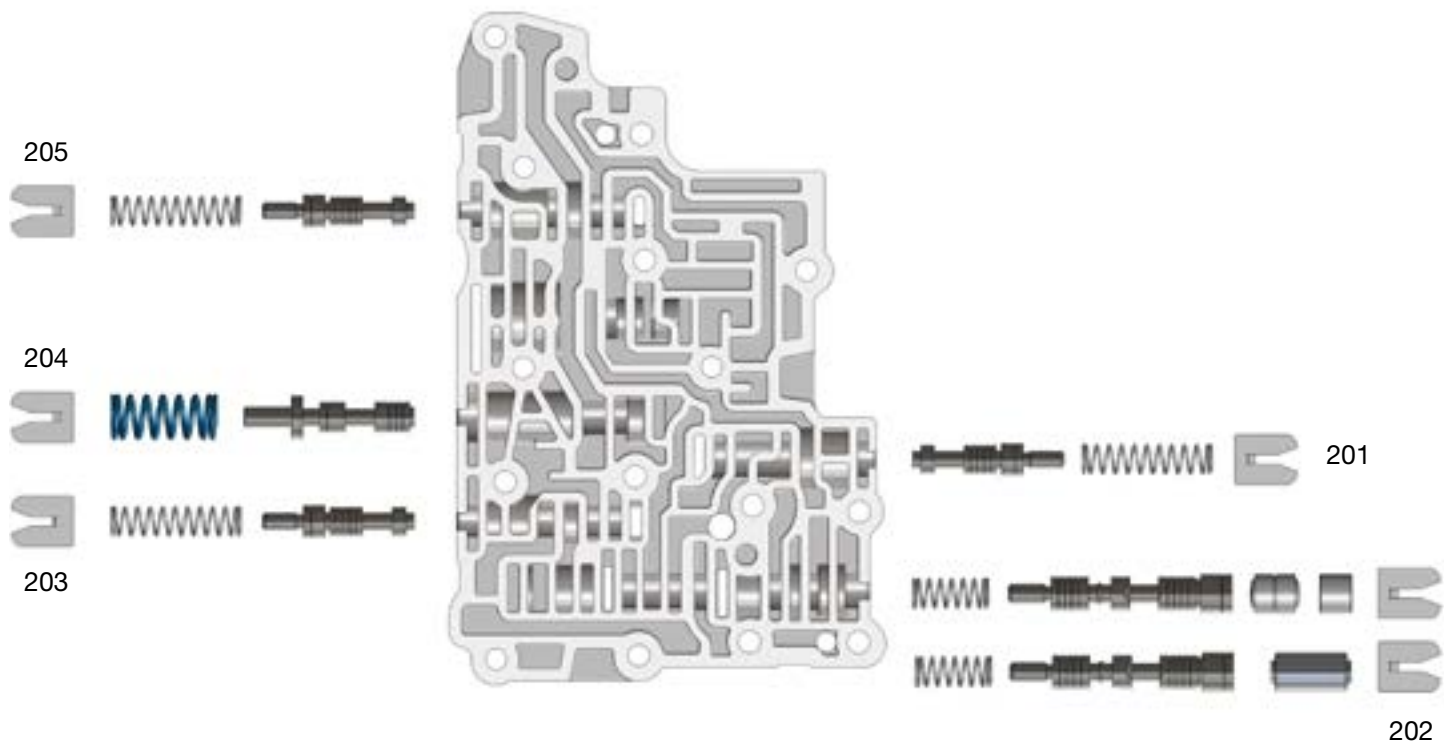


#### Upper Valve Body Descriptions

I.D. No.	6F50 Description
101	Pressure Regulator Valve
102	Isolator Valve
103	TCC Control Valve
104	Multiplex Manual Valve
105	Multiplex Shift Valve
106	Manual Valve
107	L/R Overdrive Clutch Regulator Valve
108	TCC Regulator Apply Valve
109	Intermediate Clutch Regulator & Gain Valve
110	Direct Clutch Regulator Valve

## OE Exploded View

### Lower Valve Body • 6F50 Shown



<b>Lower Valve Body Descriptions</b>	
<b>I.D. No.</b>	<b>6F50 Description</b>
201	Forward Clutch Latch Valve
202	Forward Clutch Regulator Valve
203	L/R Overdrive Clutch Latch Valve
204	AFL (Actuator Feed Limit) Valve
205	Direct Clutch Latch Valve