



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.

Upper Valve Body • 6F50 Shown

Direct Clutch Regulator Valve

- Burnt direct clutch
- 3rd & 5th Shift complaints
- Delayed Reverse
- 2-3 & 4-5 Shift flare

Replace with Sonnax Part No.

124740-26K (1.35 Ratio) Requires F-124740-TL26 & VB-FIX

124740-21K (1.83 Ratio) Requires F-124740-TL21 & VB-FIX

Pressure Regulator Valve

- High/Low line pressure
- Slipping/Burnt clutches
- Harsh/Soft shifts/apply
- Transmission overheat
- Low/No cooler/lube flow

Replace with Sonnax Part No.

124740-12K Requires F-124740-TL12 & VB-FIX

Intermediate Clutch Regulator & Gain Valve

- Burnt intermediate clutch
- 2nd & 6th Shift complaints
- 1-2 & 5-6 Shift flare

Replace with Sonnax Part No.

124740-17K Requires F-124740-TL17 & VB-FIX

Isolator Valve

- Low line pressure
- Slipping/Burnt clutches
- Soft shifts/apply

Replace with Sonnax Part Nos.

124740-16 (Spring Only)

124740-03K (Isolator Valve Kit)

TCC Regulator Apply Valve

- No TCC/slip, soft apply
- Harsh TCC apply

Replace with Sonnax Part No.

124740-24K Requires F-124740-TL24 & VB-FIX

TCC Control Valve

- Incorrect TCC apply/release
- Transmission overheat
- Low/No cooler/lube flow

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 complaints
- Delayed Reverse
- 3-4 Shift flare

Multiplex Manual Valve

- Various shift complaints
- Shift related trouble codes

Multiplex Shift Valve

- Various shift complaints
- Shift related trouble codes

O-Ringed End Plug Kit

- Burnt clutches/brakes
- Various shift complaints

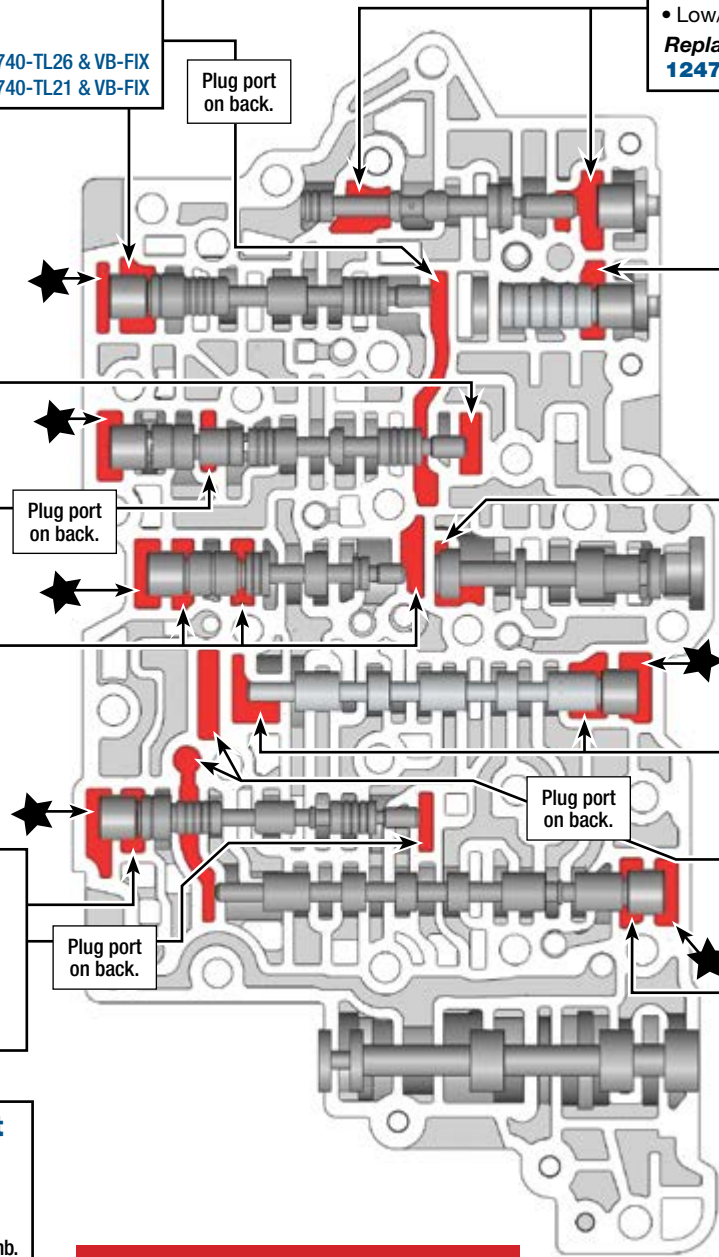
NOTE: Vacuum test end plugs at outboard port while sealing bore opening with thumb.

Replace with Sonnax Part No.

124740-02K

NOTE: Several Locations = ★

Click on Sonnax part numbers to see more information.





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Lower Valve Body • 6F50 Shown

Click on Sonnax part numbers to see more information.

Direct Clutch Latch Valve

- Burnt Direct clutch
- Delayed Reverse
- 3rd & 5th Shift complaints
- 2-3 & 4-5 Shift flare

Replace with Sonnax Part No. 144740-23 Requires F-144740-TL22 & VB-FIX

AFL (Actuator Feed Limit) Valve

- Harsh shifts
- Low clutch pressure
- No/Slipping shifts
- Solenoid cores

Replace with Sonnax Part No. 124740-01 Requires F-104740-TL12 & VB-FIX

Forward Clutch Latch Valve

- Burnt forward clutch
- Delayed forward
- 1-2-3-4 Shift complaints

Replace with Sonnax Part No. 144740-23 Requires F-144740-TL22 & VB-FIX

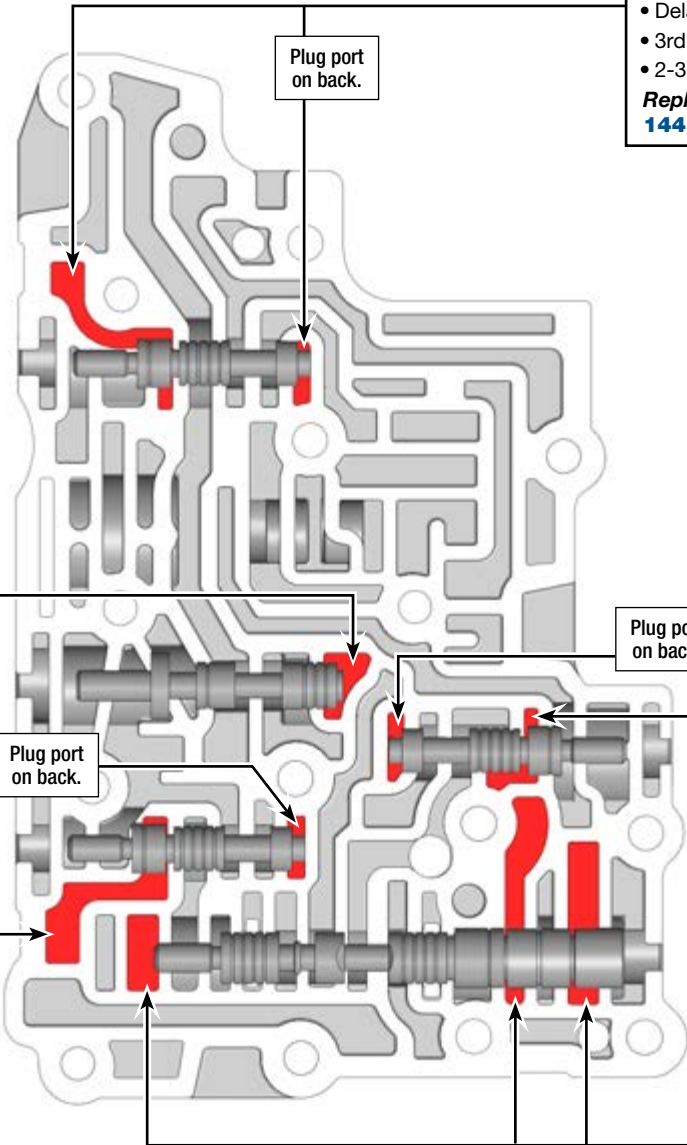
L/R Overdrive Clutch Latch Valve

- Burnt overdrive clutch
- 4-5-6 Shift complaints
- 3-4 Flare

Replace with Sonnax Part No. 144740-23 Requires F-144740-TL22 & VB-FIX

Forward Clutch Regulator Valve

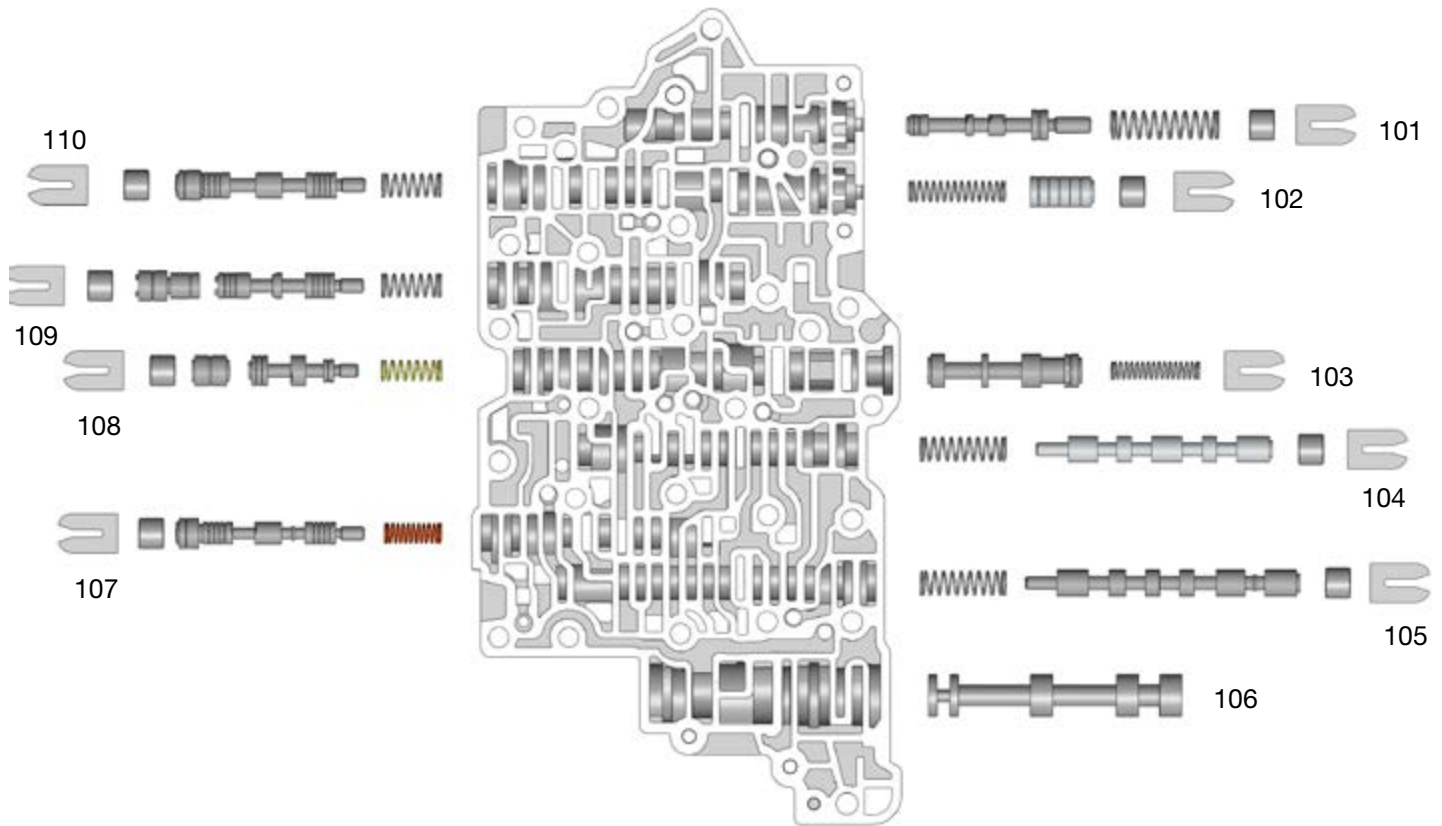
- Burnt forward clutch
- Delayed forward
- 1-2-3-4 Shift complaints





OE Exploded View

Upper Valve Body • 6F50 Shown



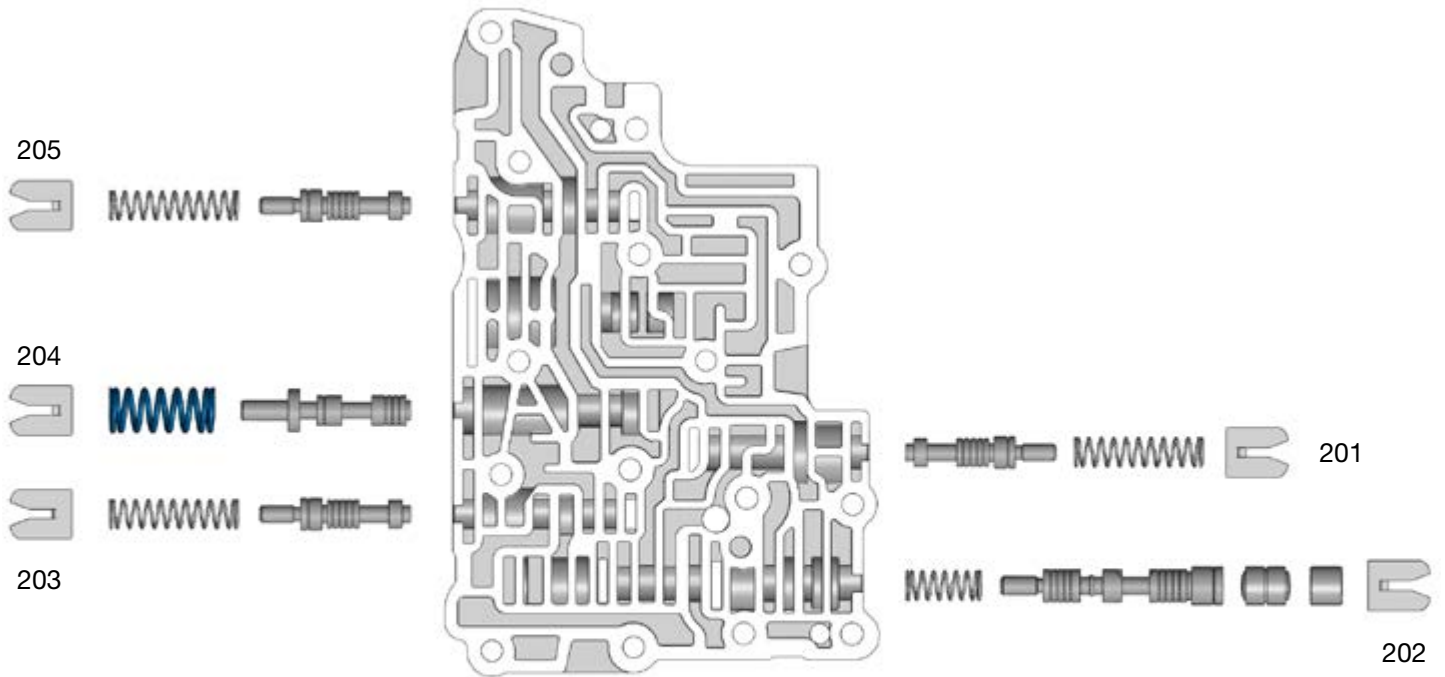
Upper Valve Body Descriptions

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



Lower Valve Body Descriptions	
I.D. No.	6F50 Description
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