# sonnax

## Critical Wear Areas & Vacuum Test Locations Zip



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

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.

## **Main Control Valve Body - Front** 6F35, Gen. 1 Shown



For specific vacuum test information, refer to individual part instructions included in kits and available at www.sonnax.com.

Click on Sonnax part numbers to see more information.

#### Control Pressure Regulator Valve 🛣 \*Note: Plug bore opening with thumb Direct (3-5-R) Clutch • Bump/Flare/Harsh/Erratic Shifts • Burnt clutches when vacuum testing end plug ports. **Regulator Valve** Overheated fluid Replace with Sonnax Part No.144740-04K • Burnt 3-5 Reverse clutch Plug port Plug port on back Delayed Reverse on back • 3rd & 5th Shift concerns Intermediate (2-6) • 2-3 & 4-5 Flare **Clutch Regulator Valve** Burnt 2-6 clutch • 2nd & 6th Shift concerns Forward (1-2-3-4) • 1-2 & 5-6 Flare **Clutch Regulator Valve** • Burnt 1-2-3-4 clutch Delayed Forward Test Generation 1: Invert OE dampener • 1-2-3-4 Shift concerns piston and test off center of the rubber tip. TCC Regulator Valve 🛣 Forward (1-2-3-4) **Clutch Latch Valve** • Code P0741, 742 • No lockup • TCC slip Harsh TCC apply Loss of fuel economy • Slips & flares • Slip codes Replace with Sonnax Part Nos. Delayed engagement 144740-36K or • Shift quality is not load sensitive 144740-19K Requires F-144740-TL19 & VB-FIX • Harsh/Slide shifts • Burnt clutches Replace with Sonnax Part No. 144740-21 Requires F-144740-TL21 & VB-FIX **Clutch Select Valve** Various shift concerns Shift codes Note: Plug casting valley with foam, putty or appropriately sized 0-ring coated in assembly lube to isolate circuit. Note: Plug casting valley with foam, putty or appropriately sized 0-ring coated Low Reverse/Overdrive (4-5-6) in assembly lube to isolate circuit. **Clutch Regulator Valve** • 3-4 Flare • Delayed Reverse • 4th Slip • Burnt Low/Reverse clutch • OD clutch burned • 4-5-6 Slip End Plugs 🛣 Replace with Sonnax Part No. 144740-43K Requires F-144740-TL43 & VB-FIX Shift concerns

Gen. 1 Only

#### **Solenoid Pressure** Regulator Valve

- Harsh/Flare shifts No 4th, 5th or 6th
- Low clutch oil pressure

Replace with Sonnax Part Nos. 144740-37K or

144740A-01 Requires 144740-TL

- Burnt clutches
- Pressure loss
- TCC apply concerns

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

Replace with Sonnax Part No. 144740-03K



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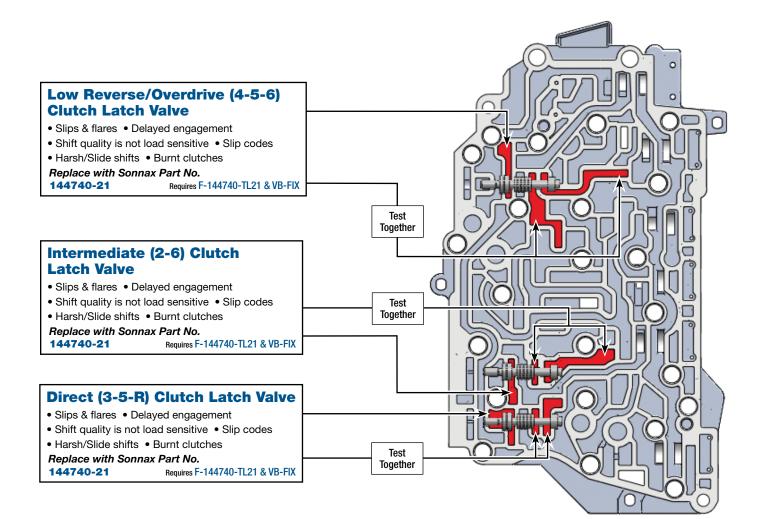
**NOTE:** OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear and Sonnax parts are noted for replacement.

Solenoid Valve Body • 6F35, Gen. 1 Shown



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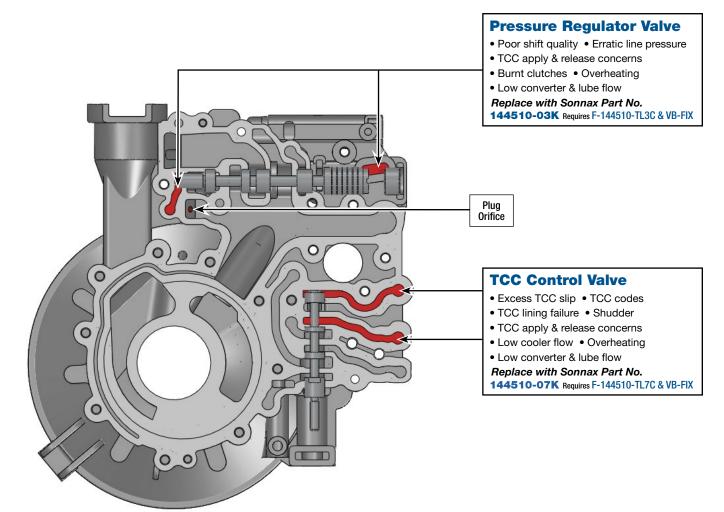
**NOTE:** OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear and Sonnax parts are noted for replacement.

Pump Body • 6F35, Gen. 1 Shown



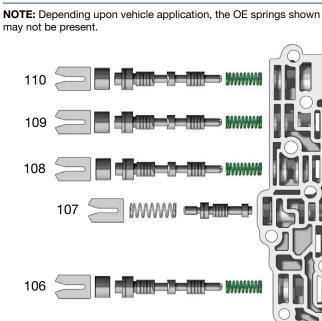
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Click on Sonnax part numbers to see more information.



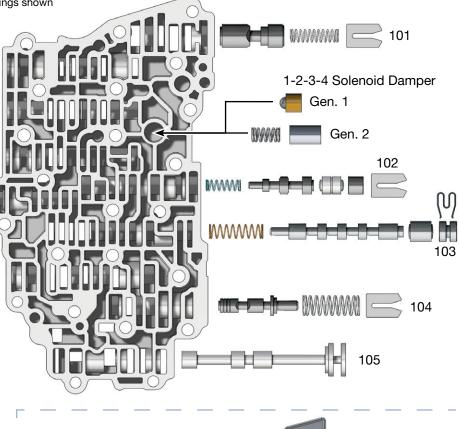


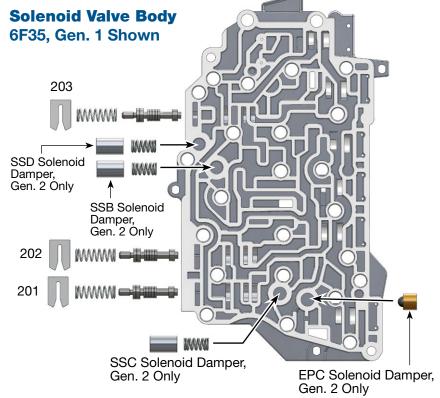
#### Main Control Valve Body • 6F35, Gen. 1 Shown



Main Control Valve Body	
I.D. No.	Description
101	Control Pressure Regulator Valve
102	TCC Regulator Valve
103	Clutch Bypass Valve
104	Solenoid Pressure Regulator Valve
105	Manual Valve
106	Low Reverse/Overdrive (4-5-6) Clutch Regulator Valve
107	FWD (1-2-3-4) Clutch Latch Valve
108	FWD (1-2-3-4) Clutch Reg. Valve
109	Intermediate (2-6) Clutch Reg. Valve
110	Direct (3-5-R) Clutch Reg. Valve

Solenoid Valve Body	
I.D. No.	Description
201	Direct (3-5-R) Clutch Latch Valve
202	Intermediate (2-6) Clutch Latch Valve
203	Low Reverse/Overdrive (4-5-6) Clutch Latch Valve







## **OE Exploded View**

### Pump Body • 6F35, Gen. 1 Shown

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

