

# Critical Wear Areas & Vacuum Test Locations

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

**ZIP KIT** ZF6-053-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.

## Lower Valve Body 053 Separator Plate Version



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.

**NOTE:** Insert internal end plugs with hole facing outboard.

Vacuum test these plugs at the retainer slot. This checks both diameters of the plug.

### Internal End Plugs

- Inconsistent shift quality

Replace with Sonnax Part No. **95740-30K**

### Solenoid Pressure Regulator Valve

- Flare/Harsh shifts
- Harsh upshifts/downshifts
- Gear ratio codes
- Solenoid performance codes
- Delayed Forward/Reverse
- Wrong gear starts

Replace with Sonnax Part Nos. **95740-17A** or **95740-17K** Requires F-95740-TL17 & VB-FIX

### Shift Valve 2

- No Forward
- Wrong gear starts

Replace with Sonnax Part No. **95740-04A**

### Clutch B Latch Valve

- Burnt B clutch
- 3rd or 5th Shift concerns

### Clutch A Latch Valve

- Burnt A clutch
- 4th or 5th Shift concerns

### Clutch B Control PR Valve

- Burnt B clutch
- 3rd or 5th Shift concerns

### Clutch A Control Pressure Regulator Valve

- 5-4 Flare/Neutral
- No 4-5
- VFS 1/A solenoid control code
- Delayed/Harsh Forward

Replace with Sonnax Part Nos. **95740-21K** or **95740-09K** Requires F-95740-TL8 & VB-FIX

### Clutch E Latch Valve

- 4th, 5th, 6th Gear shift concerns
- EDS 4 control code

### Clutch E Control Pressure Regulator Valve

- Bumpy 1-2 upshift
- EDS 4 control code
- 2-1 Downshift flare or Neutral
- VFS 1/A solenoid control code

### Bypass Clutch Control Regulator Valve

- TCC codes
- Excess TCC slip
- Cycling RPM
- Flare/Harsh shifts
- Low TCC release pressure
- Rough idle in Reverse
- Overheated converter

Replace with Sonnax Part No. **95740-13K** Requires F-95740-TL13 & VB-FIX

### Main Pressure Regulator Valve

- Broken parts due to excessive line pressure
- Erratic line pressure
- Harsh shifts
- High line pressure
- Soft/Flare shifts

Replace with Sonnax Part Nos. **95740-79** Pressure Regulator Sleeve Or **95740-78K** Oversized PR Valve Kit Requires F-95740-TL78 & VB-FIX

### Clutch D1 Brake Latch Valve

- 1st or 2nd Shift concerns
- EDS 6 codes
- Burnt D brake

### Shift Valve 1

- Reverse engagement concerns
- Wrong gear starts

Replace with Sonnax Part No. **95740-04A**

### Parking Lock Valve

- Park release and engagement concerns

### Lubrication Control Valve

- Planetary/Bushing/Lube failures
- Overheating
- Low converter pressure
- Bump/Flare shifts

Replace with Sonnax Part No. **95740-11K** Requires F-95740-TL11 & VB-FIX

### Converter Release Regulator Valve

- Excessive TCC slip RPM & related codes
- Harsh TCC apply & release
- Low TCC release pressure

Replace with Sonnax Part Nos. **95740-05A** or **95740-05K** Requires F-95740-TL5 & VB-FIX

Test 1: In Rest

Test 2: Test this port with valve in inverted position. Hold valve and spring in place with enclosed testing end plug.

Use Test End Plug

# Critical Wear Areas & Vacuum Test Locations

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

**ZF6-053-ZIP**  
Zip Kit® Available

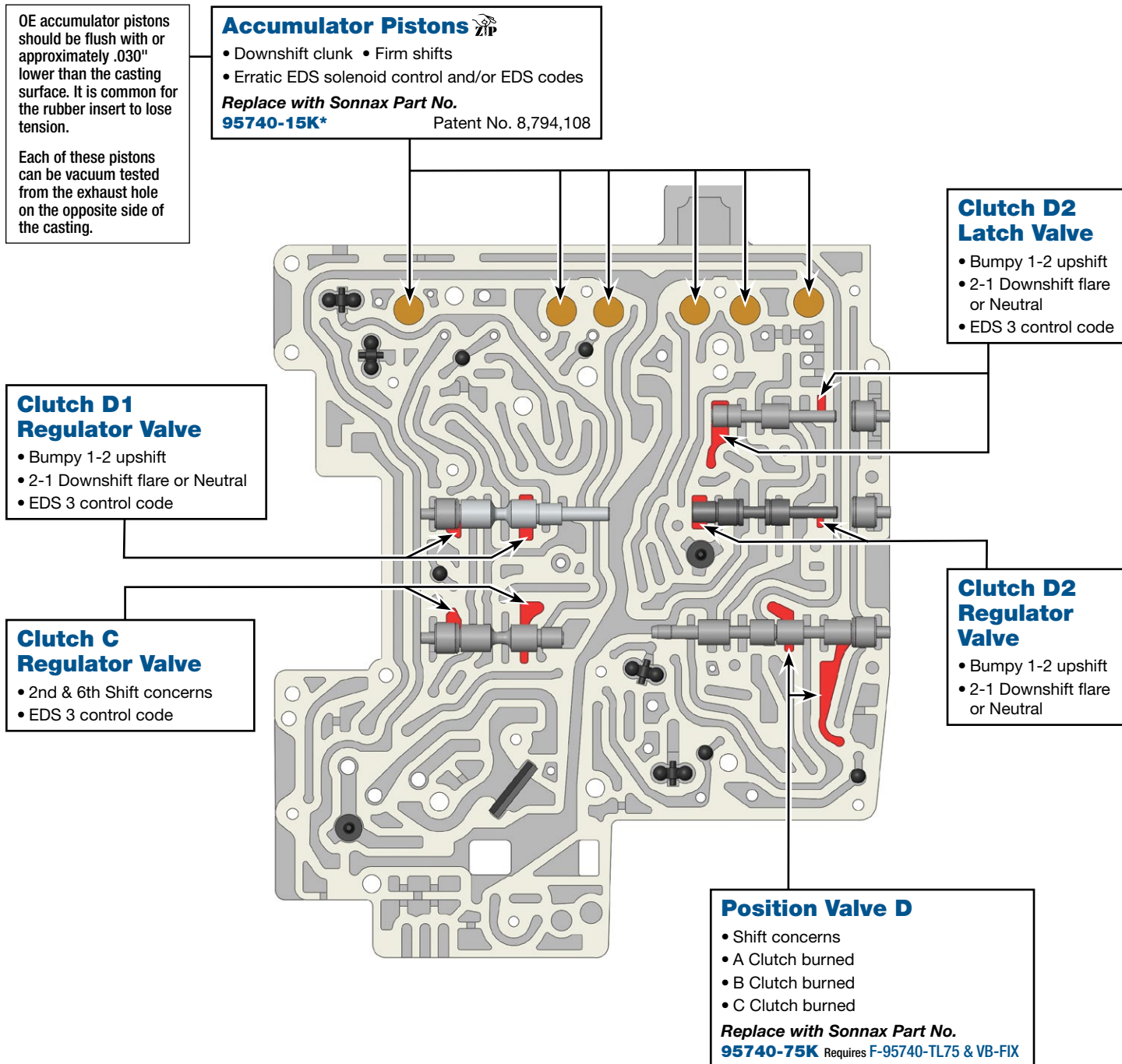
**NOTE:** OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear and Sonnax parts are noted for replacement.

## Upper Valve Body 053 Separator Plate Version



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.



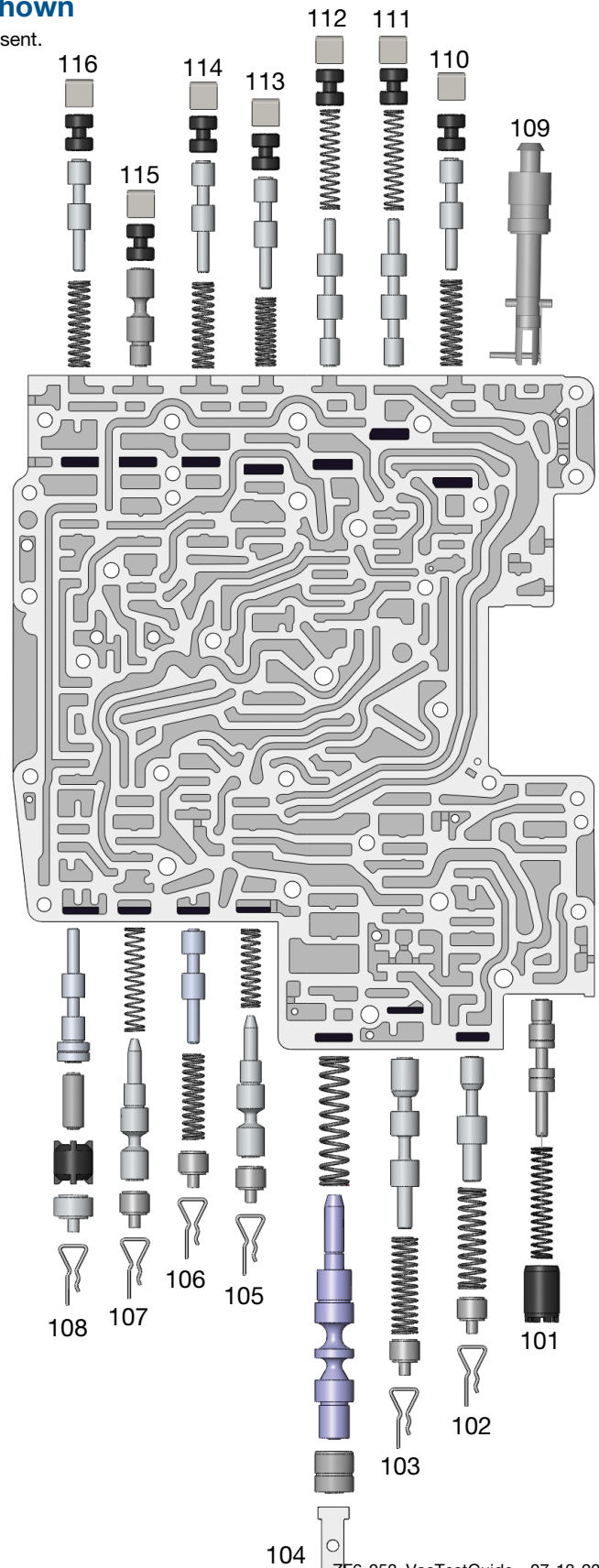
\*Part numbers with an asterisk (\*) are included in this Zip Kit. Other part numbers are available separately.

# OE Exploded View

## Lower Valve Body • 053 Separator Plate Version Shown

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

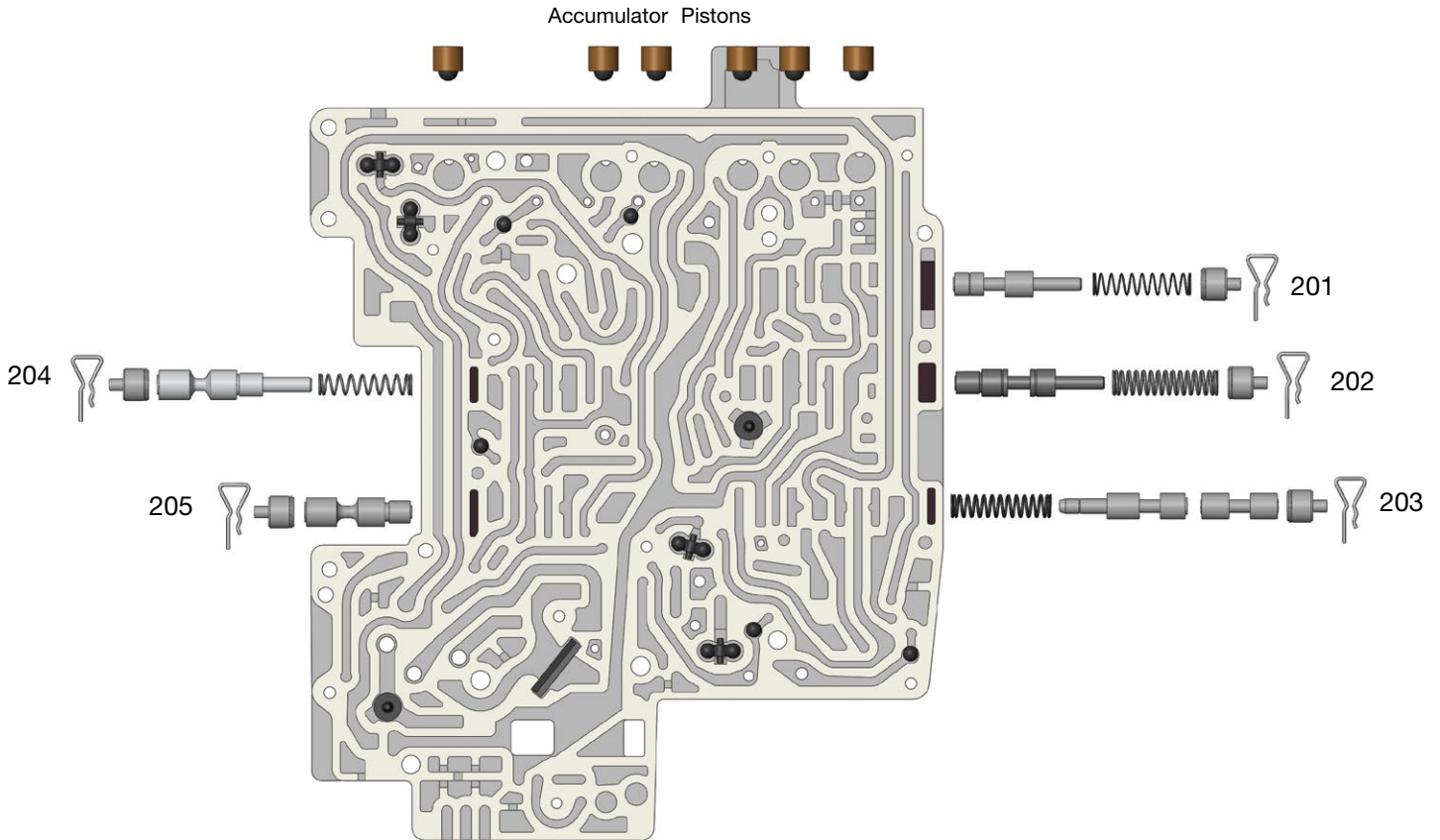
Lower Valve Body Descriptions	
I.D No.	Description
101	Parking Lock Valve
102	Lubrication Control Valve
103	Converter Release Regulator Valve
104	Main Pressure Regulator Valve
105	Bypass Clutch Control Regulator Valve
106	Clutch E Latch Valve
107	Clutch E Control Pressure Regulator Valve
108	Clutch A Control Pressure Regulator Valve
109	Park Lock Cylinder
110	Clutch D1 Brake Latch Valve
111	Shift Valve 2
112	Shift Valve 1
113	Solenoid Pressure Regulator Valve
114	Clutch B Latch Valve
115	Clutch B Control Pressure Regulator Valve
116	Clutch A Latch Valve



## OE Exploded View

### Upper Valve Body • 053 Separator Plate Version Shown

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



#### Upper Valve Body Descriptions

I.D. No.	Description
201	Clutch D2 Latch Valve
202	Clutch D2 Regulator Valve
203	Position Valve D
204	Clutch D1 Regulator Valve
205	Clutch C Regulator Valve