

# 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.

## 4R75E Valve Body

Click on Sonnax part numbers to see more information.

# **Main Pressure Regulator Valve**

- Poor shift quality Soft shifts Low line rise
- Erratic buzz Premature clutch/band failure
- Uncontrolled pressure in Reverse Low Reverse boost

#### Replace with Sonnax Part No.

76948-01 or 76948-16K (1991-1995)

76948-16K Requires F-76948-TL & VB-FIX

76948-09 or 76948-17K (1996-Later)

76948-17K Requires F-76948-TL & VB-FIX

### **Bypass Clutch Control Valve**

- Code 628, 741, 1741, 1744
- No lockup TCC slip
- Low cooler flow

Replace with Sonnax Part No. **76948-31** Requires 76948-TL6

## **Bypass Clutch Control Plunger Valve & Sleeve**

• Low Reverse boost • Reverse slip • No Reverse

• Delayed Reverse • Low line rise in Reverse

Replace with Sonnax Part No. 76948-02K\*

- Shudder Code 628 No lockup
- TCC apply & release concerns

NOTE: Fits all '91-later applications.

Delayed lockup

**Boost Valve** 

· Burnt Reverse clutch

Replace with Sonnax Part No. 76948-04K\*

### **Converter Pressure Limit Valve**

- · Low converter pressure
- Lube failures

### 2-3 Shift Valve

- · Erratic shift timing
- Oil leaks

#### **Manual Valve**

- · Delayed engagement
- Low line pressure
- Burnt bands/clutches

Replace with Sonnax Part No. 76948-46

# Test Together Center this valve land in the passage

### 2-3 Backout Valve

- No 2-3 2-3 Quality poor
- · Gear ratio codes

## **Overdrive Servo Regulator Valve**

- No 4th
- Burnt OD band
- 4-3 Neutral

#### **Overdrive Servo Regulator Valve** & Sleeve NOTE:

4-3 Neutral

'01-Later

• No 4th • Burnt OD band

Replace with Sonnax Part No. 76948-29K\*

#### 1-2 Shift Valve

- No 2nd
- Wrong gear starts
- · Gear ratio codes

## 3-4 Capacity **Modulator Valve**

- 3-4 Flare
- Slips in manual Low

#### 3-4 Shift Valve

- No 4th
- Gear ratio codes

## 2-3 Capacity **Modulator Valve**

• 2-3 Flare • No 3rd & 4th

**NOTE:** Not used in '01-Later

**Solenoid Regulator Valve** 

• Erratic shifts • 2-3 Neutral • Neutral after 4th • 3rd & Reverse only

• Loss of Forward under hard acceleration from a stop • No 2nd

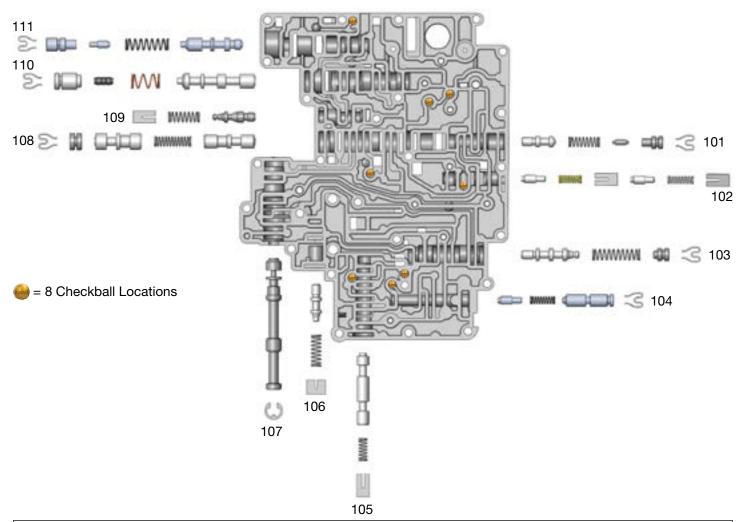
Replace with Sonnax Part Nos. 76948-14K Requires 76948-BST2 or 76948-47K Requires F-76948-TL47 & VB-FIX

as indicated.



# **OE Exploded View**

# **4R75E Valve Body**



Valve Body Descriptions	
I.D. No.	Description
101	Overdrive Servo Regulator Valve (Inboard), Overdrive Servo Regulator Valve & Sleeve (Outboard) '01-Later
102	3-4 Capacity Modulator Valve (Inboard), Low Servo Capacity Modulator Valve (Outboard)
103	3-4 Shift Valve
104	2-3 Capacity Modulator Valve
105	2-3 Backout Valve
106	Solenoid Regulator Valve
107	Manual Valve
108	1-2 Shift Valve (Inboard), 2-3 Shift Valve (Outboard)
109	Converter Pressure Limit Valve
110	Bypass Clutch Control Valve (Inboard), Bypass Clutch Control Plunger Valve & Sleeve (Outboard)
111	Main Pressure Regulator Valve (Inboard), Boost Valve & Sleeve (Outboard)