

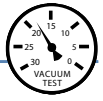
Toyota A750E/F, A760E/F/H, A761E



Zip Kit® A750E-A761E-ZIP  
Available for this unit.

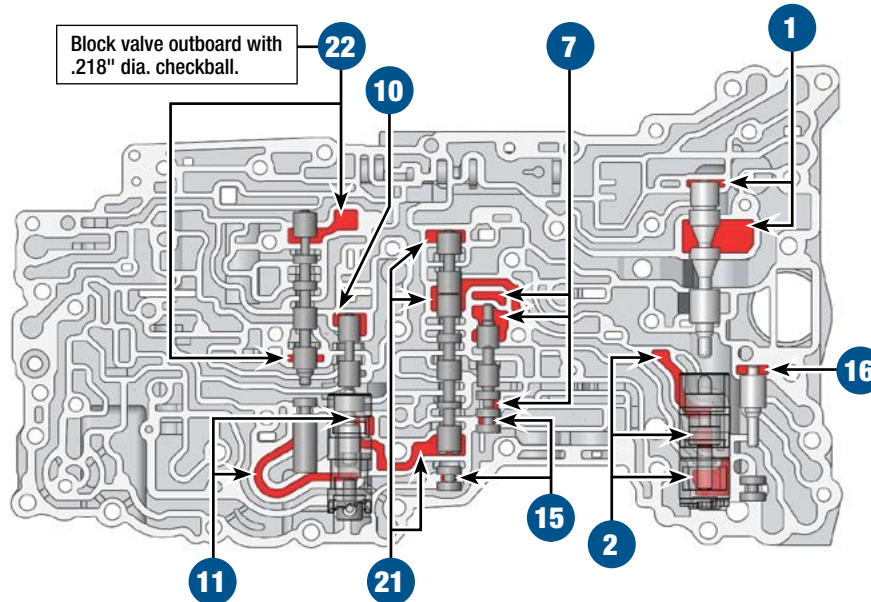
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## Critical Wear Areas & Vacuum Test Locations

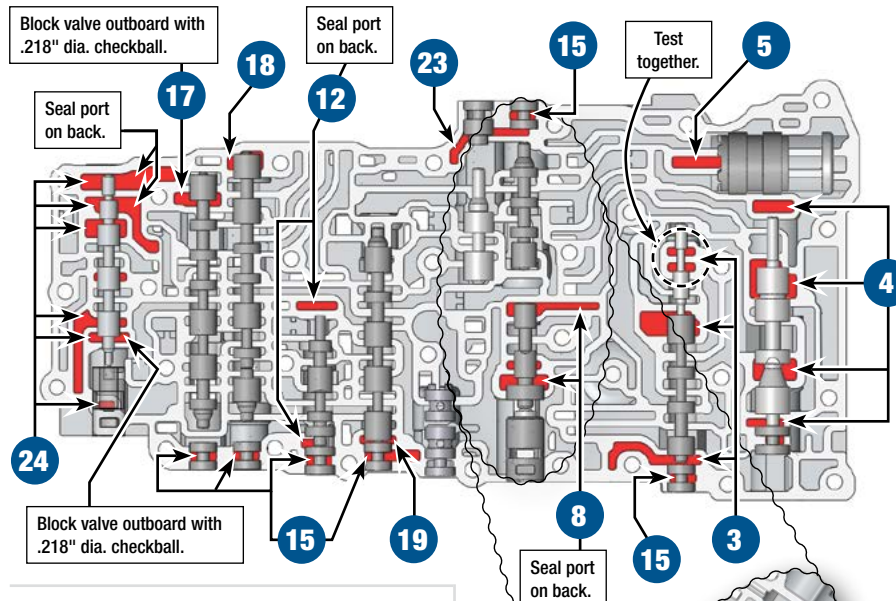


**NOTE:** OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear and Sonnax parts noted for replacement. For specific vacuum test information, refer to individual part instructions included in kits and available at [www.sonnax.com](http://www.sonnax.com).

### A750 Series • Lower Valve Body

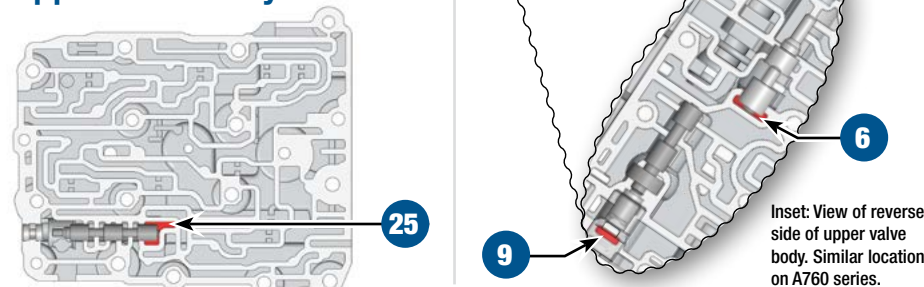


### Upper Valve Body



See page 3 for test area IDs, transmission symptoms and recommended repairs.

### Upper Valve Body No. 2

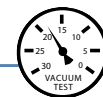


Toyota A750E/F, A760E/F/H, A761E

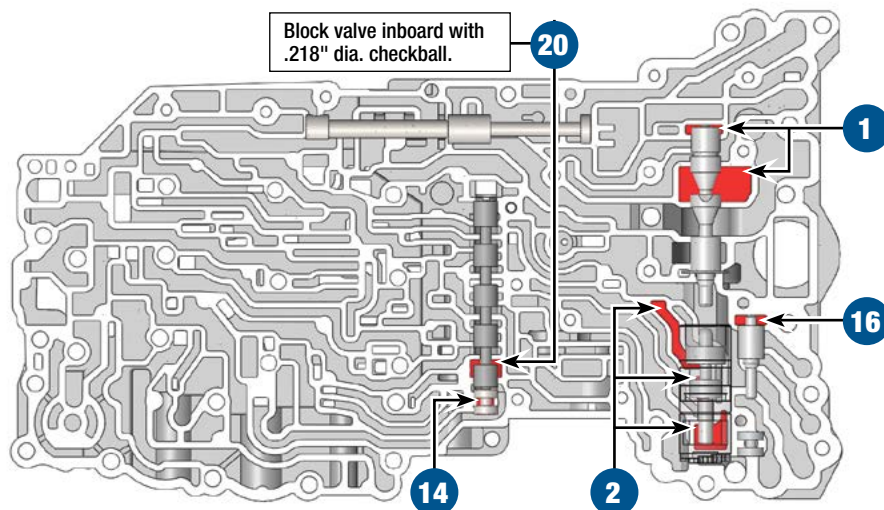
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## Critical Wear Areas & Vacuum Test Locations

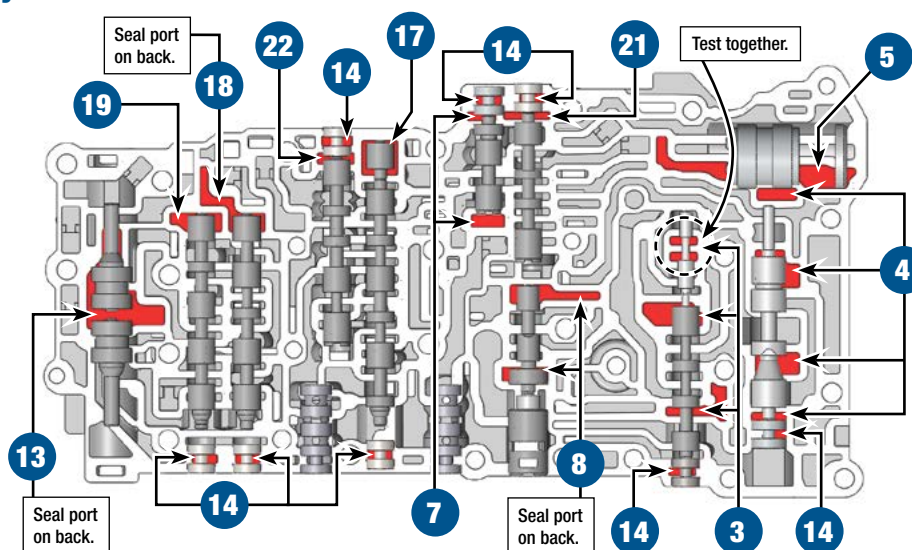
**NOTE:** OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear and Sonnax parts noted for replacement. For specific vacuum test information, refer to individual part instructions included in kits and available at [www.sonnax.com](http://www.sonnax.com).



### A760 Series • Lower Valve Body

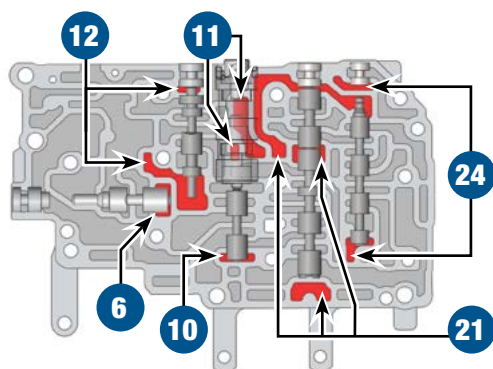


### Upper Valve Body

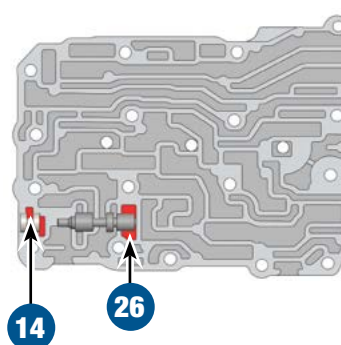


See page 3 for test area IDs, transmission symptoms and recommended repairs.

### Lower Valve Body No. 2



### Upper Valve Body No. 2



**Toyota A750E/F, A760E/F/H, A761E**



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**Click on Sonnax part numbers to see more information.**

### 1. Primary Regulator Valve

- Low/High line pressure • Clutch/Brake failure
- Soft/Harsh shifts • Low converter pressure

**Replace with Sonnax Part No. 147741-04K**

Requires F-147741-TL4 & VB-FIX

### 2. Boost Assembly

- Insufficient line rise • Soft/Harsh shifts
- High reverse pressure • Clutch/Brake failure

**Replace with Sonnax Part No. 147741-01K**

### 3. Lockup Relay Valve

- Converter apply/release complaints/codes
- Burned converter

**Replace with Sonnax Part No. 147741-07K**

Requires F-147741-TL7 & VB-FIX

### 4. Secondary Regulator Valve

- Converter apply/release complaints
- Harsh lockup • Lube-related failures

**Replace with Sonnax Part No. 147741-10K**

Requires F-147741-TL4 & VB-FIX

### 5. B1 Accumulator Piston

- 4-5 Shift complaints (A750 Series)
- 4-5, 5-6 Shift complaints (A760 Series)

**Replace with Sonnax Part No. 57917E-19K**

### 6. Solenoid Modulator Valve

- Solenoid codes • TCC slip/RPM cycling
- Shift complaints • Low cooler flow

**Replace with Sonnax Part No. 147741-05K**

Requires F-147741-TL5 & VB-FIX

### 7. Clutch Control Valve

- Harsh up/down shifts • Flare upshifts
- Gear ratio/solenoid codes

**Replace with Sonnax Part No.**

**147741-22K**

A750 Series

**147741-14K**

A760 Series

Requires F-147741-TL22 or F-147741-TL14 & VB-FIX

### 8. Lockup Control Valve

- Harsh downshifts • RPM surge on coast
- TCC apply/release complaints

**Replace with Sonnax Part No. 147741-16K**

Requires F-147741-TL16 & VB-FIX

### 9. Lockup Control Plunger Valve & Sleeve

- Harsh downshifts • RPM surge on coast
- TCC apply/release complaints

**Replace with Sonnax Part No. 147741-37K**

### 10. Accumulator Control Valve

- Shift complaints • Harsh shifts
- Shift codes

**Replace with Sonnax Part No. 147741-24K**

Requires 147741-TL24

### 11. Accumulator Control Plunger Valve & Sleeve

- Shift complaints • Harsh shifts
- Shift codes

**Replace with Sonnax Part No. 147741-35K**

### 12. Brake Control Valve

- Shift complaints • Harsh shifts
- Flares • Burnt brakes

**Replace with Sonnax Part No. 147741-28K**

Requires F-147741-TL28 & VB-FIX

### 13. B2 Accumulator Pistons

- Harsh/Slipping 5-6 shifts
- Harsh 3-2 downshifts

**Replace with Sonnax Part No. 147741-13**

### 14. & 15. End Plugs

Various complaints depending on locations of leaking end plug.

**14. Replace with Sonnax Part No. 147741-30K**

**15. Replace with Sonnax Part No. 147741-31K**

### 16. SLT Damper

- Harsh/Soft shifts
- Loss of pressure control

### 17. 1-2 Shift Valve

### 18. 2-3 Shift Valve

### 19. 3-4 Shift Valve

### 20. 4-5 Shift Valve

### 21. Clutch Apply Control Valve

### 22. Sequence Valve

### 23. Clutch Lock Valve

### 24. B1 Apply Control Valve & Assembly

### 25. Coast Brake Relay Valve

### 26. C3 Apply Relay Valve

- Related shift complaints
- Burnt clutches/brakes

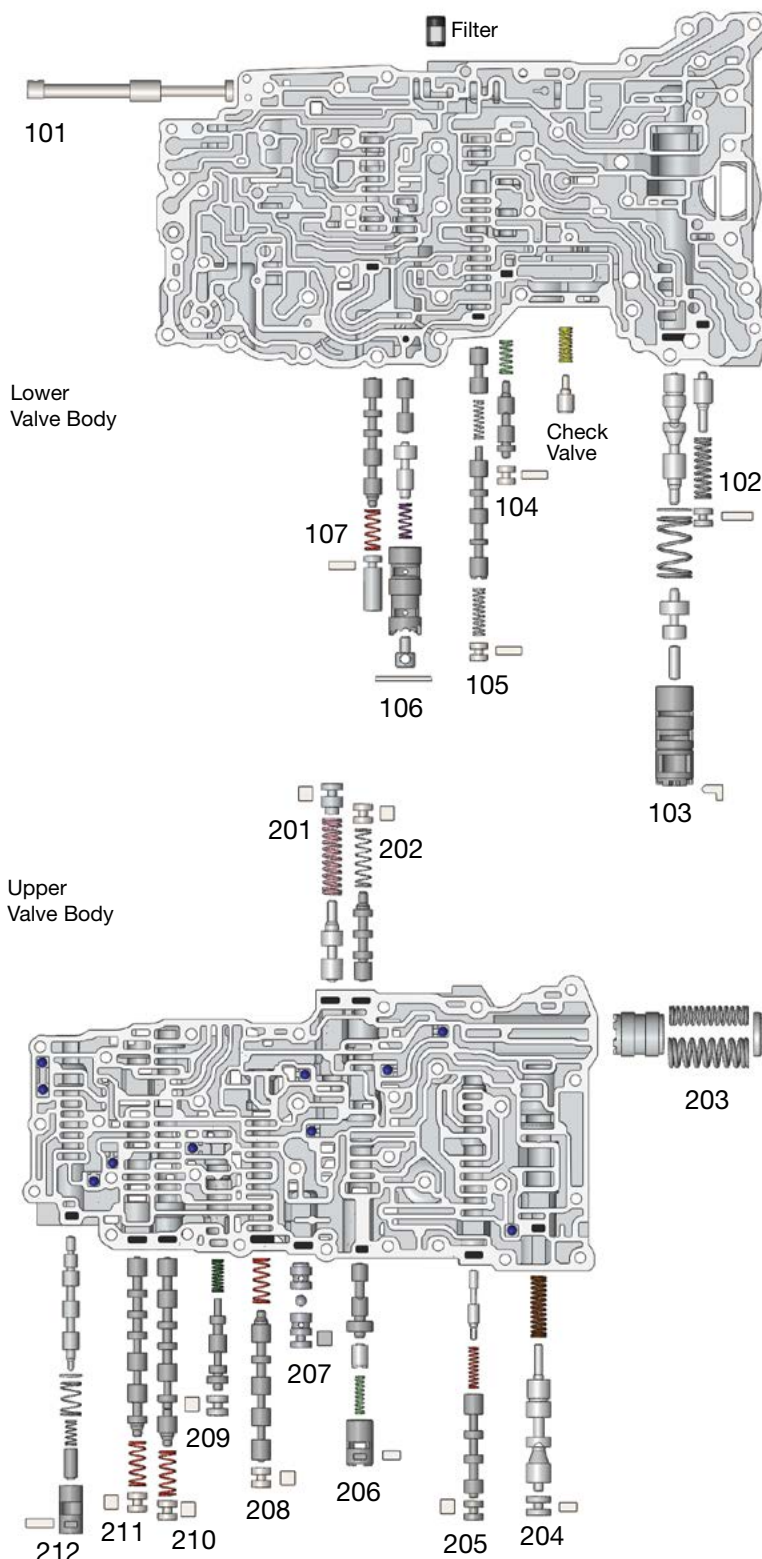
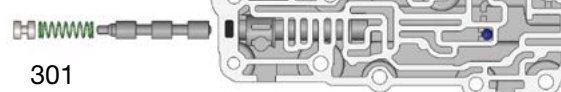


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## OE Exploded View

### A750 Valve Body

**NOTE:** Depending upon vehicle application, the OE springs shown may not be present.
Upper  
Valve Body  
No. 2

### A750 Series Valve Body Descriptions

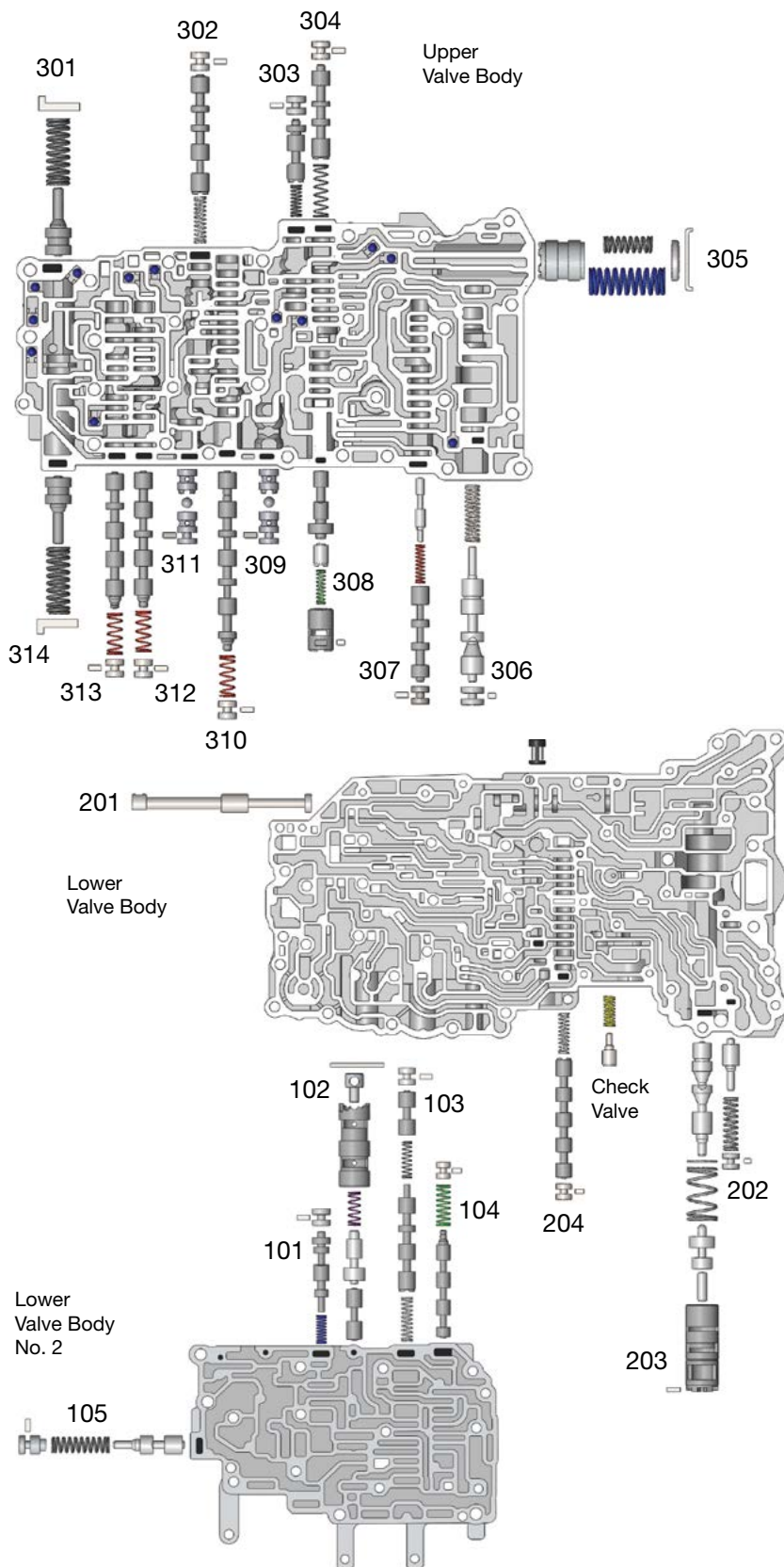
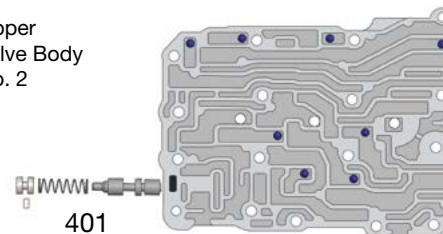
| I.D. No. | Description                                                                                     |
|----------|-------------------------------------------------------------------------------------------------|
| 101      | Manual Valve                                                                                    |
| 102      | SLT Damper                                                                                      |
| 103      | Primary Regulator Valve (inboard)<br>Boost Assembly (outboard)                                  |
| 104      | Clutch Control Valve                                                                            |
| 105      | Clutch Apply Control Valve                                                                      |
| 106      | Accumulator Control Valve (inboard)<br>Accumulator Control Plunger Valve<br>& Sleeve (outboard) |
| 107      | Sequence Valve                                                                                  |
| 201      | Solenoid Modulator Valve                                                                        |
| 202      | Clutch Lock Valve                                                                               |
| 203      | B1 Accumulator Piston                                                                           |
| 204      | Secondary Regulator Valve                                                                       |
| 205      | Lockup Relay Valve                                                                              |
| 206      | Lockup Control Valve (inboard)<br>Lockup Control Plunger Valve<br>& Sleeve (outboard)           |
| 207      | C3 Check Valve                                                                                  |
| 208      | 3-4 Shift Valve                                                                                 |
| 209      | Brake Control Valve                                                                             |
| 210      | 2-3 Shift Valve                                                                                 |
| 211      | 1-2 Shift Valve                                                                                 |
| 212      | B1 Apply Control Valve (inboard)<br>B1 Apply Control Plunger Valve &<br>Sleeve (outboard)       |
| 301      | Coast Brake Relay Valve                                                                         |

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## OE Exploded View

### A760 Valve Body

**NOTE:** Depending upon vehicle application, the OE springs shown may not be present.
Upper  
Valve Body  
No. 2

401

### A760 Series Valve Body Descriptions

| I.D. No. | Description                                                                                  |
|----------|----------------------------------------------------------------------------------------------|
| 101      | Brake Control Valve                                                                          |
| 102      | Accumulator Control Valve (inboard)<br>Accumulator Control Plunger Valve & Sleeve (outboard) |
| 103      | SL1 Relay Valve                                                                              |
| 104      | B1 Apply Relay Valve                                                                         |
| 105      | Solenoid Modulator Valve                                                                     |
| 201      | Manual Valve                                                                                 |
| 202      | SLT Damper                                                                                   |
| 203      | Primary Regulator Valve (inboard)<br>Boost Valve Assembly (outboard)                         |
| 204      | 4-5 Shift Valve                                                                              |
| 301      | B2 Accumulator Piston                                                                        |
| 302      | Reverse Sequence Valve                                                                       |
| 303      | Clutch Control Valve                                                                         |
| 304      | Clutch Apply Relay Valve                                                                     |
| 305      | B1 Accumulator Piston                                                                        |
| 306      | Secondary Regulator Valve                                                                    |
| 307      | Lockup Relay Valve                                                                           |
| 308      | Lockup Control Valve (inboard)<br>Lockup Control Plunger Valve & Sleeve (outboard)           |
| 309      | C3 Check Valve                                                                               |
| 310      | 1-2 Shift Valve                                                                              |
| 311      | B4 Check Valve                                                                               |
| 312      | 2-3 Shift Valve                                                                              |
| 313      | 3-4 Shift Valve                                                                              |
| 314      | B2 Accumulator Piston                                                                        |
| 401      | C3 Apply Relay Valve                                                                         |