FORD 5R55W/S

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.

Click on Sonnax part numbers to see more information.

Pressure Regulator Valve
- Delayed engagement • Soft shifts
- Low line rise • Erratic buzz
- Uncontrolled/High pressure in Reverse
Install Sonnax Part No. 56947J-09K Requires 56947J-TL9

VFS1 Modulator Control Valve
- Flare shifts • Low line pressure
- Pressure control out-of-range codes
Replace with Sonnax Part No. 56947J-19K Requires F-56947J-TL19 & VB-FIX

Boost Valve Assembly
- Poor line rise
- Slipping upshifts
- Burnt clutches & bands

Converter Feed Limit Valve
- No lockup • Delayed engagement
- Codes 731 to 741 • Overheating
- Front lube failure
Replace with Sonnax Part No. 56947J-61K
Requires F-56947J-TL61 & VB-FIX

Reverse Servo Control Valve
- No/Delayed Reverse
- Burnt Low/Reverse band

Reverse Engagement Valve
- Delayed/No Reverse
- Slipping gears
- Direct clutch burned
Replace with Sonnax Part No. 56947J-20K Requires F-27741-TL13 & VB-FIX

Reverse Modulator Valve
- Delayed Reverse • No 4th or 5th
- Direct clutch burned
Replace with Sonnax Part No. 56947J-20K Requires F-27741-TL13 & VB-FIX

Direct Clutch Control Valve
- Delayed Reverse • No 4th or 5th
- Direct clutch burned

Intermediate Servo Release Valve
- Burnt Intermediate band

VFS2 Modulator Control Valve
- Flare shifts • Low line pressure
- Pressure control out-of-range codes
Replace with Sonnax Part No. 56947J-19K Requires F-56947J-TL19 & VB-FIX

Coast Clutch Control Valve
- Burnt Coast clutch

TCC Control Valve
- Code P0741 • Excess TCC slip • TCC lining failure
- Overheated converter • Low cooler flow
- Damaged valve body casting
Replace with Sonnax Part No. 56947J-05K Requires F-56947J-TL2 & VB-FIX

Converter Clutch Back Pressure Valve
- Excess TCC slip • Converter codes
- Burned converter

Plug casting valley with foam, putty or appropriately sized O-ring coated in assembly lube to isolate circuits.

Solenoid Feed Limit Valve
- No lockup • Overheating
- Delayed engagement
- Codes 731 to 741
- Front lube failure
Replace with Sonnax Part No. 56947J-61K
Requires F-56947J-TL61 & VB-FIX

VFS1 Port
- Low line pressure
- Slipping shifts
NOTE: Check for wear on end plugs.

Intermediate Servo Select Valve
- Burnt Intermediate band
- Burnt Direct clutch

Forward Engagement Valve
- Delayed Forward • Loss of Forward
- Slipping gears • Burnt Forward clutch
Replace with Sonnax Part No. 56947J-26K
Requires F-27741-TL13 & VB-FIX

Overdrive Servo Control Valve
- Burnt Overdrive Band

TCC Modulator Valve
- Code P0741 • Excess TCC slip • Code 1783
- High line pressure • Overheated transmission
Replace with Sonnax Part No. 56947J-15K
Requires F-56947J-TL15 & VB-FIX

TCC Modulator Sleeve & Plunger Assembly
- Slip codes • Overheated fluid
- High TCC slip PRM at increased load m
Replace with Sonnax Part No. 56947J-01K
OE Ratio
56947J-03K Increased Ratio

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Test these together.

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**Lower Valve Body Descriptions**

<table>
<thead>
<tr>
<th>I.D. No.</th>
<th>Description</th>
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| 101      | TCC Control Valve (inboard)  
           | Fluid Cooler Bypass & Thermo Valve (outboard) |
| 102      | Converter Clutch Back Pressure Valve (inboard)  
           | Coast Clutch Control Valve (outboard) |
| 103      | VFS2 Modulator Control Valve |
| 104      | Intermediate Servo Release Valve |
| 105      | Direct Clutch Control Valve |
| 106      | Reverse Modulator Valve |
| 107      | Reverse Engagement Valve |
| 108      | VFS1 Modulator Control Valve |
| 109      | Main Regulator Valve (inboard)  
           | Boost Valve & Sleeve (outboard) |
| 110      | Solenoid Feed Limit Valve (inboard)  
           | Converter Feed Limit Valve (outboard) |
| 111      | Manual Valve |
| 112      | Rear Servo Control Valve |
| 113      | Intermediate Servo Select Valve |
| 114      | Forward Engagement Control Valve |
| 115      | Overdrive Servo Control Valve |
| 116      | TCC Modulator Valve (inboard)  
           | TCC Plunger Valve & Sleeve (outboard) |