Critical Wear Areas & Vacuum Test Locations Zip



Drop-In Zip Valve™ **Parts 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

NOTE: Worm tracks vary depending upon model year, but vacuum test locations are all the same.



Overdrive 4-5-6 Clutch

Regulator Valve

• Burnt Overdrive (4-5-6) clutch • 4th. 5th and/or 6th Gear concerns

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.

Intermediate 2-6 Clutch

- Burnt Intermediate (2-6) clutch
- 1-2 Shift concerns

Regulator Valve

• 5-6 Shift concerns

Forward 1-2-3-4 Clutch **Regulator Valve**

- Delayed Forward No Forward
- Gear ratio & solenoid codes Failsafe mode
- Slipping gears Burnt Forward clutch
- Overheated fluid

Direct 3-5-R Clutch Regulator Valve

- Delayed Reverse 2-3, 4-5 Flare Bind-up
- Ratio codes (between flare & slip)
- 3rd, 5th, Reverse slip Direct clutch burned

Replace with Sonnax Part No.

126740-11K Requires F-126740-TL11 & VB-FIX

Low/Reverse Clutch Regulator Valve

- Low line pressure
- Burnt Low/Reverse clutch
- Delayed Reverse

Replace with Sonnax Part No.

126740-27K Requires F-126740-TL27 & VB-FIX

End Plugs 🛣

- Flare shifts Harsh shifts Soft shifts
- Pressure loss Burnt clutches

NOTE: Check visually for end plug deterioration or bore wear.

Replace with Sonnax Part No.

126740-09K NOTE: Several Locations =

TCC Apply Regulator Valve • TCC Codes, cycling, slip • No lockup

- Overheated fluid Loss of fuel economy
- Low cooler & lube pressure

Replace with Sonnax Part No.

126740-15K Requires F-126740-TL15 and VB-FIX

TCC Charge Control Valve

- Low/High converter apply pressure
- TCC failure

TCC Apply Boost Valve

- TCC Codes, cycling, slip No lockup
- Overheated fluid Loss of fuel economy
- Low cooler & lube pressure

Replace with Sonnax Part No. 126740-03K

sonnax Drop-In Zip Valve™

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Parts Available



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Lower Valve Body



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.

(Outboard) Valve

Excess heat

Replace with Sonnax Part No. 126740-26K

Cooler Bypass

Valve End Plug

Transmission overheat

Converter Limit (Inboard) Valve 🛣

- Excess TCC slip TCC Codes
- TCC apply & release concerns
- Lube failures Reduced clutch life
- Low converter & lube flow

Replace with Sonnax Part No. 126740-25K

TCC Charge Limit Valve

- Engine stall TCC codes
- No TCC release TCC lining failure

Replace with Sonnax Part No. 126740-01K

Requires F-126740-TL & VB-FIX

Internal O-Ringed End Plug Kit 🛣

- Flare/Harsh/Soft Shifts
- Pressure loss Burnt clutches

NOTE: Check visually for end plug deterioration or bore wear.

Replace with Sonnax Part No. 126740-05K

NOTE: Several Locations =



Overdrive 4-5-6 **Clutch Latch Valve**

- Burnt Overdrive (4-5-6) clutch
- 4th, 5th, 6th Gear concerns

Intermediate 2-6 **Clutch Latch Valve**

- Burnt Intermediate (2-6) clutch
- 1-2, 5-6 Shift concerns

Forward 1-2-3-4 Clutch **Latch Valve**

- Shift quality is not load sensitive
- Delayed engagement Harsh shifts
- Gear ratio & solenoid codes
- Burnt Forward clutch Overheated fluid

Replace with Sonnax Part No. **126740-06K** Requires F-126740-TL6 & VB-FIX

Direct 3-5-R **Clutch Latch Valve**

- Burnt Direct (3-5-R) clutch
- 3rd, 5th, Reverse shift concerns

Low/Reverse **Clutch Latch Valve**

- Burnt Low/Reverse clutch
- Delayed Reverse

NOTE: See details on page 1.

Line Pressure Control (LPC) Valve

- Poor shift quality Burnt clutches
- TCC apply & release concerns
- Erratic line pressure Overheating
- I ow converter & lube flow

Replace with Sonnax Part No. 126740-08K Requires F-126740-TL8 & VB-FIX

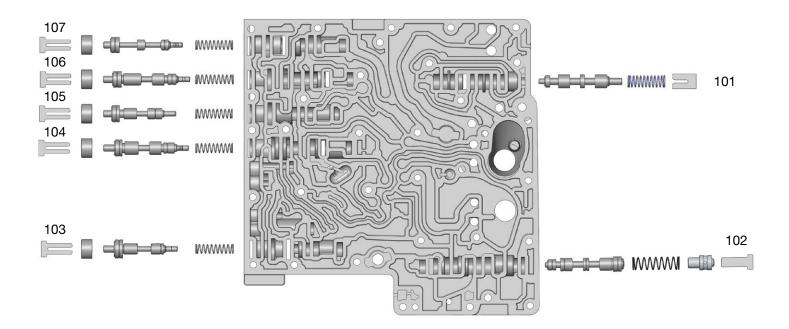
Solenoid Feed Pressure **Regulator Valve**

- Solenoid codes
- Ratio codes
- Shift concerns



OE Exploded View

Upper Valve Body

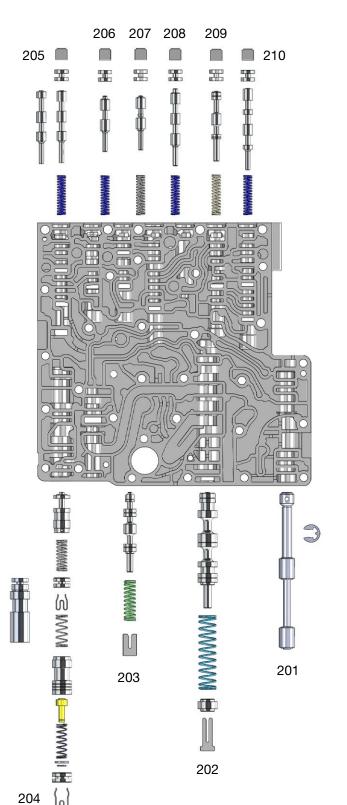


Upper Valve Body Descriptions	
I.D. No.	Description
101	TCC Charge Control Valve
102	TCC Apply Regulator Valve
103	Low/Reverse Clutch Regulator Valve
104	Direct 3-5-R Clutch Regulator Valve
105	Forward 1-2-3-4 Clutch Regulator Valve
106	Intermediate 2-6 Clutch Regulator Valve
107	Overdrive 4-5-6 Clutch Regulator Valve



OE Exploded View

Lower Valve Body



Lower Valve Body Descriptions	
Description	
Manual Valve	
Line Pressure Control (LPC) Valve	
TCC Charge Limit Valve	
Converter Limit (Inboard)	
Cooler Bypass (Outboard, 2011-2016)	
Cooler Bypass Blocker Valve (2017-later)	
Overdrive 4-5-6 Clutch Latch Valve	
Intermediate 2-6 Clutch Latch Valve	
Forward 1-2-3-4 Clutch Latch Valve	
Direct 3-5-R Clutch Latch Valve	
Solenoid Feed Pressure Regulator Valve	
Low/Reverse Clutch Latch Valve	