

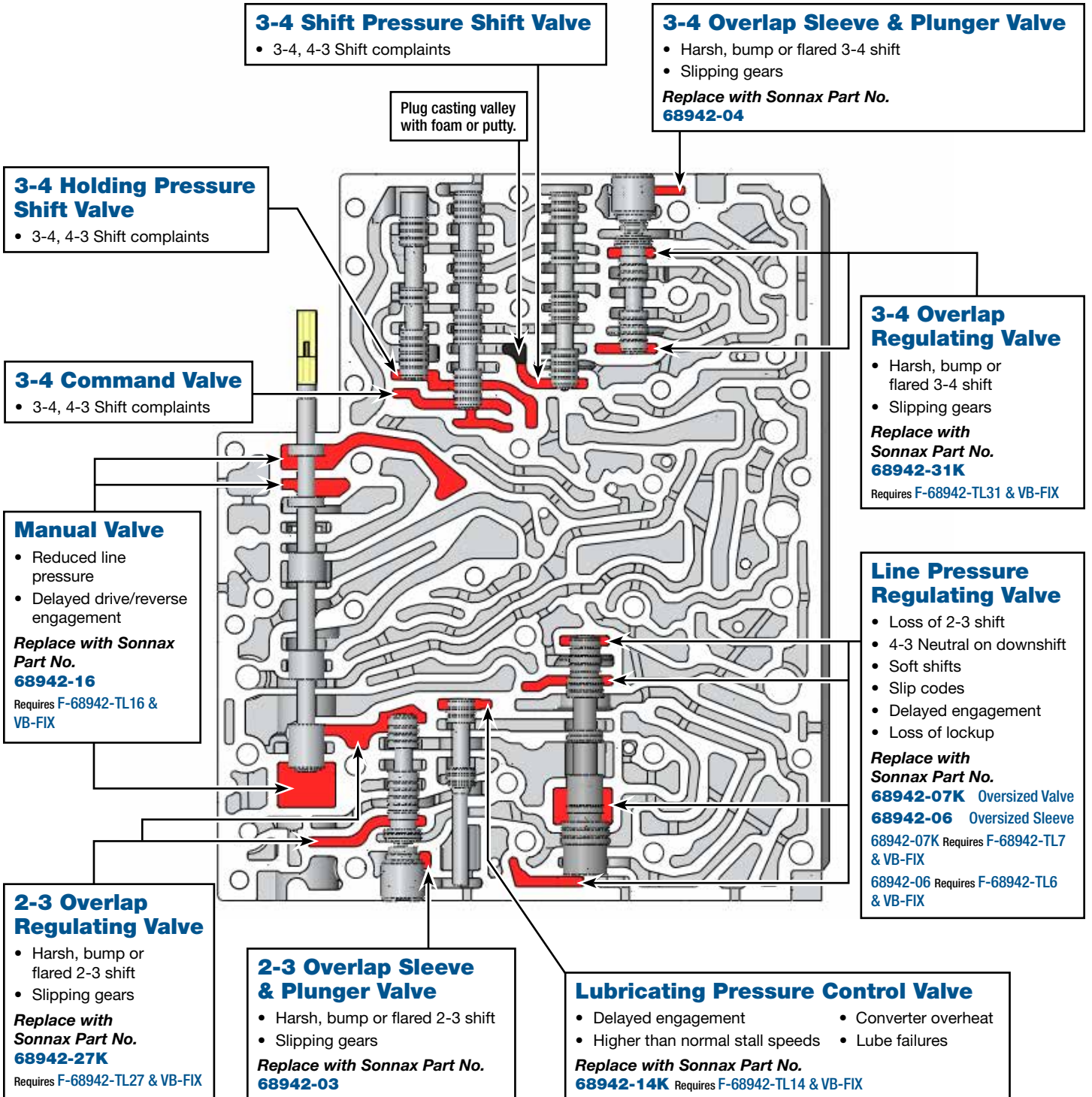
Critical Wear Areas & Vacuum Test Locations



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.

Upper Valve Body

Click on Sonnax part numbers to see more information.



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.

Lower Valve Body

Click on Sonnax part numbers to see more information.

Shift Valve Pressure Regulating Valve

- Shift complaints, all forward gears
- Shift codes

Shift Pressure Regulating Valve

- Shift complaints, all forward gears
- Shift codes

1-2/4-5 Overlap Sleeve & Plunger Valve

- Harsh, bump or flared 1-2, 4-5 shifts
- Slipping gears

Replace with Sonnax Part No. 68942-02

1-2/4-5 Overlap Regulating Valve

- Harsh, bump or flared 1-2, 4-5 shifts
- Slipping gears

Replace with Sonnax Part No. 68942-19K
Requires F-68942-TL19 & VB-FIX

1-2/4-5 Shift Pressure Shift Valve

- 1-2, 2-1 Shift complaints
- 4-5, 5-4 Shift complaints

1-2/4-5 Holding Pressure Shift Valve

- 1-2, 2-1 Shift complaints
- 4-5, 5-4 Shift complaints

■ = Plug casting valley with foam or putty.

1-2/4-5 Command Valve

- 1-2, 2-1 Shift complaints
- 4-5, 5-4 Shift complaints

Control Valve Pressure Regulating Valve

- Delayed engagement
- Shift flares & codes
- Poor line rise
- Long shift duration

Replace with Sonnax Part No. 68942-17K (Early & Late)
Requires F-68942-TL14 & VB-FIX

B2 Shift Valve

- Burned B2 brake
- Slipping 1st, 2nd, 3rd gears

2-3 Holding Pressure Shift Valve

- 2-3, 3-2 Shift complaints

2-3 Command Valve

- 2-3, 3-2 Shift complaints

2-3 Shift Pressure Shift Valve

- 2-3, 3-2 Shift complaints

TCC Damper Valve (Late Only)

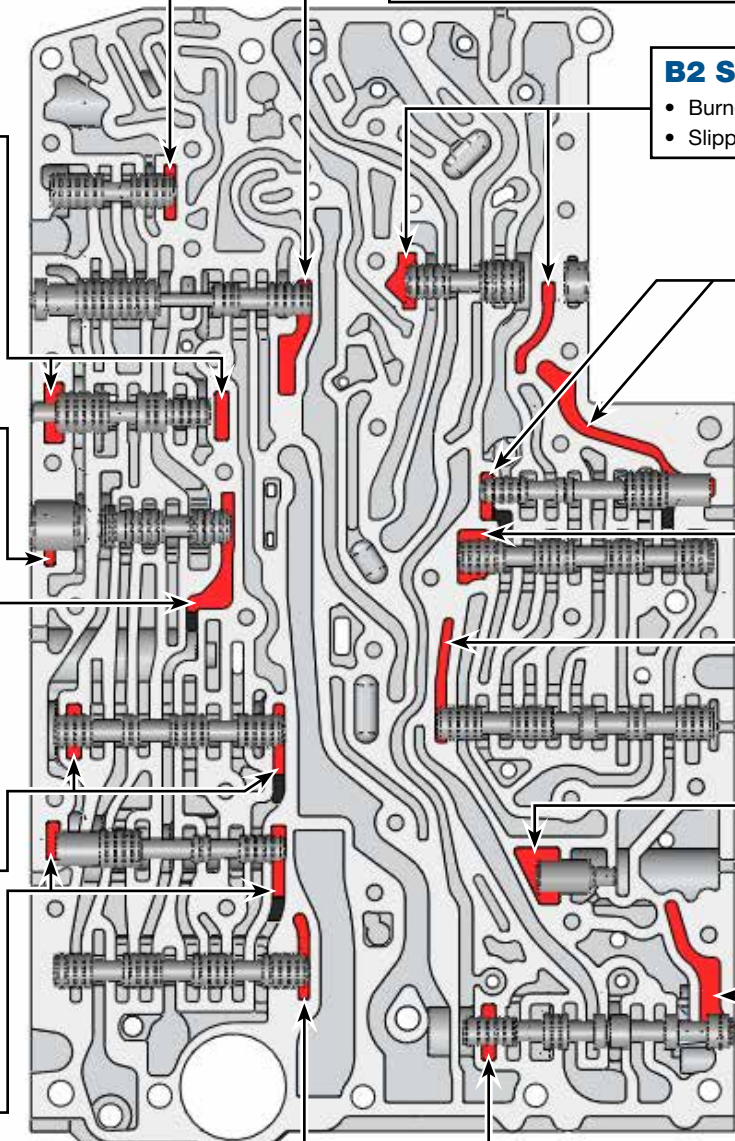
- Harsh lockup

Replace with Sonnax Part No. 68942-23K

TCC Lockup Regulating Valve

- Converter apply/release complaints
- Converter codes
- Lube failures

Replace with Sonnax Part No. 68942-10K Requires F-68942-TL10 & VB-FIX

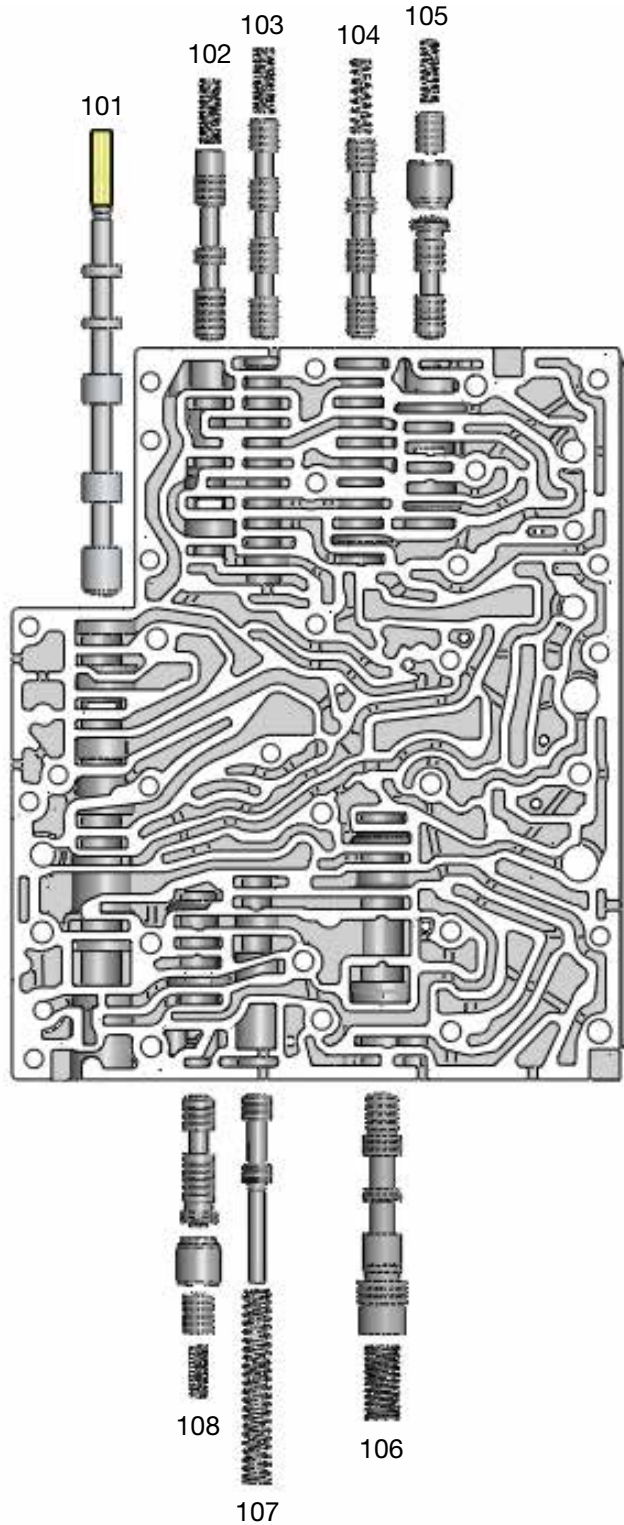


OE Exploded View

Upper Valve Body

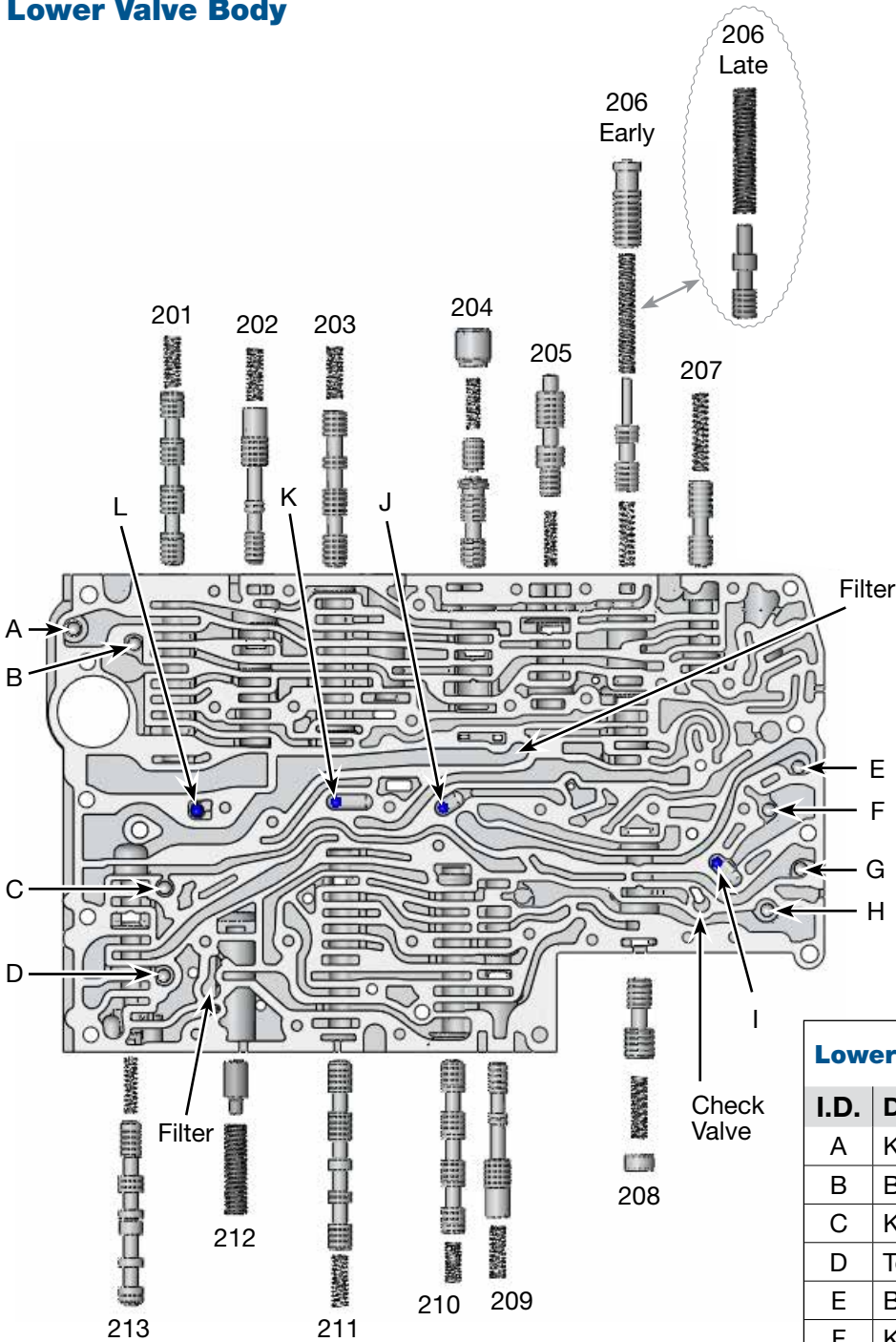
Upper Valve Body Descriptions

I.D. No.	Description
101	Selector Valve
102	3-4 Holding Pressure Shift Valve
103	3-4 Command Valve
104	3-4 Shift Pressure Shift Valve
105	3-4 Pressure Overlap Control Valve (Inboard) Sleeve & Piston (Outboard)
106	Working Pressure Control Valve
107	Lubricating Pressure Control Valve
108	2-3 Pressure Overlap Control Valve (Inboard) Sleeve & Piston (Outboard)



OE Exploded View

Lower Valve Body



Lower Valve Body Descriptions

I.D. No.	Description
201	1-2/4-5 Command Valve
202	1-2/4-5 Holding Pressure Shift Valve
203	1-2/4-5 Shift Pressure Shift Valve
204	1-2/4-5 Pressure Overlap Control Valve (Inboard) Sleeve & Piston (Outboard)
205	Shift Pressure Control Valve
206	Regulating Valve Pressure Control Valve(s) (Early & Late)
207	Shift Valve Pressure Control Valve
208	B2 Shift Valve
209	2-3 Holding Pressure Shift Valve
210	2-3 Command Valve
211	2-3 Shift Pressure Shift Valve
212	TCC Damper Valve (Late only)
213	TC Lockup Clutch Control Valve

Lower Valve Body Checkball Locations

I.D.	Description	Material
A	K1 Clutch Exhaust	Steel
B	B1 Clutch Exhaust	Steel
C	K2 Clutch Exhaust	Steel
D	Torque Converter Clutch	Steel
E	B2 Clutch Exhaust	Steel
F	K3 Clutch Exhaust	Steel
G	B2 Clutch Counter Exhaust	Steel
H	B3 Clutch Exhaust	Steel
I	K3 Shuttle Ball	Plastic
J	3-4 Shift Group Shuttle Ball	Plastic
K	Pressure Reducing Shuttle Ball	Plastic
L	Modulator Pressure Shuttle Ball	Plastic