

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.

Middle Valve Body • UA80E Shown

Front Side



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.

Manual Valve • Low pressure

- Delayed engagement

TC Charge Limit Valve

- Low converter pressure
- Repeated converter failure
- Overheated fluid

Solenoid Modulator Valve

- Low solenoid feed pressure to SL & SLT solenoid
- Insufficient pressure rise
- Low TCC pressure

TCC Relay Valve

- Low TCC pressure
- TCC slip codes

C4 Relay Valve

- C4 Clutch burned
- 4th & 6th Gear shift concerns
- Poor shift quality

Replace with Sonnax Part No. 168740-02K

Sequence Valve

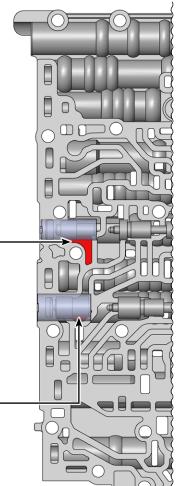
- · Wrong gear starts
- Gear ratio codes

C1 Relay Valve 🛣

- Delayed engagement
- C1 Clutch burned
- Poor shift quality

Replace with Sonnax Part No. 168740-01K

Back Side



Cooler Return Lube Flow Control Valve

- Inadequate lubrication
- Lube failures due to lack of cooler flow
- Overheated fluid

Replace with Sonnax Part No. 168740-08K

Requires F-168740-TL8 & VB-FIX

Pressure Regulator Valve

- Burnt clutches
- Low line pressure
- High line pressure
- Burnt transmission components

Replace with Sonnax Part No. 168740-06K

Requires F-168740-TL6 & VB-FIX

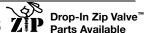
End Plugs 2

- Poor shift quality
- Pressure loss
- Various concerns depending on location of leaking end plug

Replace with Sonnax Part No. 168740-10K



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Rear Valve Body • UA80E Shown



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.

TCCRV & TCCV Damper Kit

- Lube failures Cooler drain back
- Overheated fluid/converter
- Delayed engagement

Replace with Sonnax Part No. 168740-11K

Solenoid Damper 🚠

- Poor shift quality Burnt clutches
- Delayed engagement
- Low line pressure
- TCC apply & release concerns
- Loss of shift solenoid control pressure

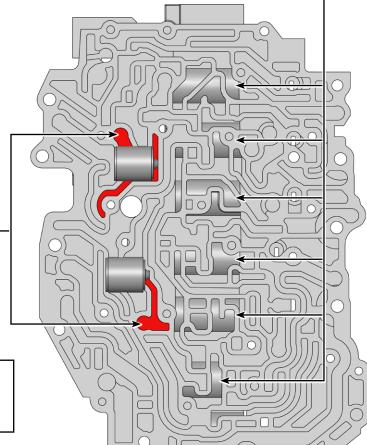
Replace with Sonnax Part No. 168740-12K

B2/C1 One Way Check Valve

- Forward slip
- No Forward
- B2/C1 clutch failure

NOTE: Only on Stop-Start models. Valve bodies without Stop-Start will have open bores here.

Solenoid Valve Body UA80 Shown



Forward/Reverse Accumulators

- Slips in Forward & Reverse Delayed engagement
- Poor shift quality Harsh engagement

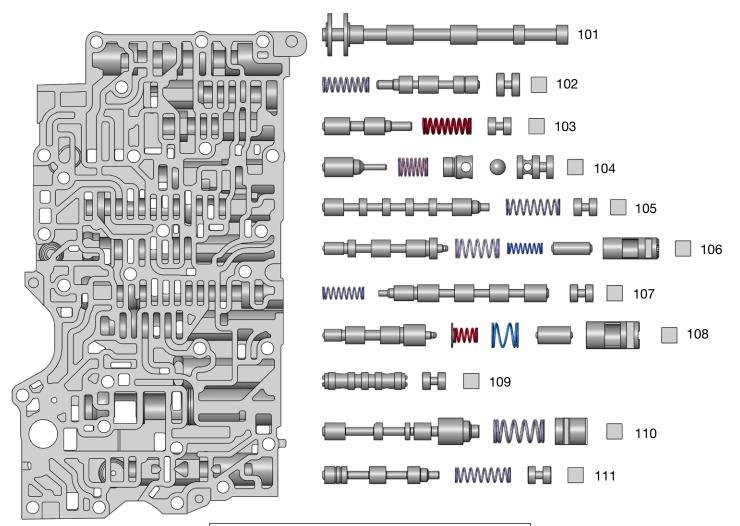
Replace with Sonnax Part No. 168740-05K



OE Exploded View

Middle Valve Body (Front Side) • UA80E Shown

NOTE: Depending upon vehicle application, the OE springs shown may not be present.



Middle Valve Body Descriptions		
I.D. No.	Description	
101	Manual Valve	
102	TC Charge Limit Valve	
103	Solenoid Modulator Valve	
104	SL4/SL3 Shuttle Ball	
105	TCC Relay Valve	
106	C4 Relay Valve	
107	Sequence Valve	
108	C1 Relay Valve	
109	4-Way Check Valve	
110	Pressure Regulator Valve	
111	Cooler Return Lube Flow Control Valve	



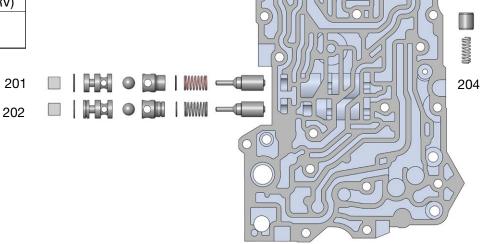
203

OE Exploded View

Rear Valve Body • UA80E Shown

NOTE: Depending upon vehicle application, the OE springs shown may not be present.

Rear Valve Body Descriptions			
I.D. No.	Description		
201	B2 One Way Check Valve		
202	C1 One Way Check Valve		
203	TCC Relief Valve (TCCRV)		
204	Transmission Cooler Check Valve (TCCV)		



Solenoid Valve Body • UA80E Shown

NOTE: Depending upon vehicle application, the OE springs shown may not be present.

Solenoid Valve Body Descriptions		
I.D. No.	Description	
301	SLU Solenoid	
302	SL5 Solenoid	
303	SL6 Solenoid	
304	SL4 Solenoid	
305	SL3 Solenoid	
306	SL1 Solenoid	
307	SL2 Solenoid	
308	SLT Solenoid	
309	SL Damper & Springs	
310	SLU Accumulator	
311	SL Accumulator	
312	Reverse Accumulator	
313	Forward Accumulator	
314	STL Accumulator	

