

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.

Valve Body - CFT30 Shown Here

Lube Regulator Valve

- Bearing failure
- Overheated fluid
- Planetary failure
- Poor lube oil control

Replace with Sonnax Part No. 33740-04K Requires F-33740-TL4 & VB-FIX

TCC Regulator Valve

- Bearing failure • Overheated fluid
- Planetary failure • Poor lube oil control

Replace with Sonnax Part No. 33740-03K
Requires F-33740-TL3 & VB-FIX

Accumulator Pistons

- Downshift clunk • Firm shifts
- Erratic EDS solenoid control and/or EDS codes

Replace with Sonnax Part No. 95740-15K See Channel Plate/Pg 6

Secondary Pulley Regulator Valve

- Low ratio slips in Forward and Reverse
- P0730 Gear ratio code
- P0845 Secondary pulley pressure sensor out of range

Line Pressure Regulator Valve

- Low/High line pressure
- P0730 Gear ratio code
- P0868 Transmission pressure low
- P0840 Main pressure sensor out of range
- P0961 PCA out of range/hydraulic system leak

Primary Pulley Switch Valve

- No high ratios
- No ratio changes
- P0730 Gear ratio code

Lockup Switch Valve

- TCC codes & apply concerns
 - Converter shudder & TCC slip
 - Overheated fluid & TCC lining
 - Loss of fuel economy
- NOTE:** TCC slip can cause a false P0715 speed sensor fault.

Solenoid Regulator Valve

- P0730 Gear ratio code
- P0845 Secondary pulley pressure sensor out of range
- P0868 Transmission pressure low
- P0840 Main pressure sensor out of range
- P0961 PCA out of range/hydraulic system leak

Lockup Apply Valve

- Converter shudder & TCC slip
 - Loss of fuel economy
 - Overheated fluid & TCC lining
 - TCC apply concerns & codes
- NOTE:** TCC slip can cause a false P0715 speed sensor fault.

Replace with Sonnax Part No. 33740-06
Requires F-33740-TL6 & VB-FIX

Primary Pulley Boost Valve

- No ratio change
 - Ratio codes or errors
 - No high ratios
 - Poor fuel economy
- Replace with Sonnax Part No. 33740-01K**

Forward & Reverse Engagement Latch Valve

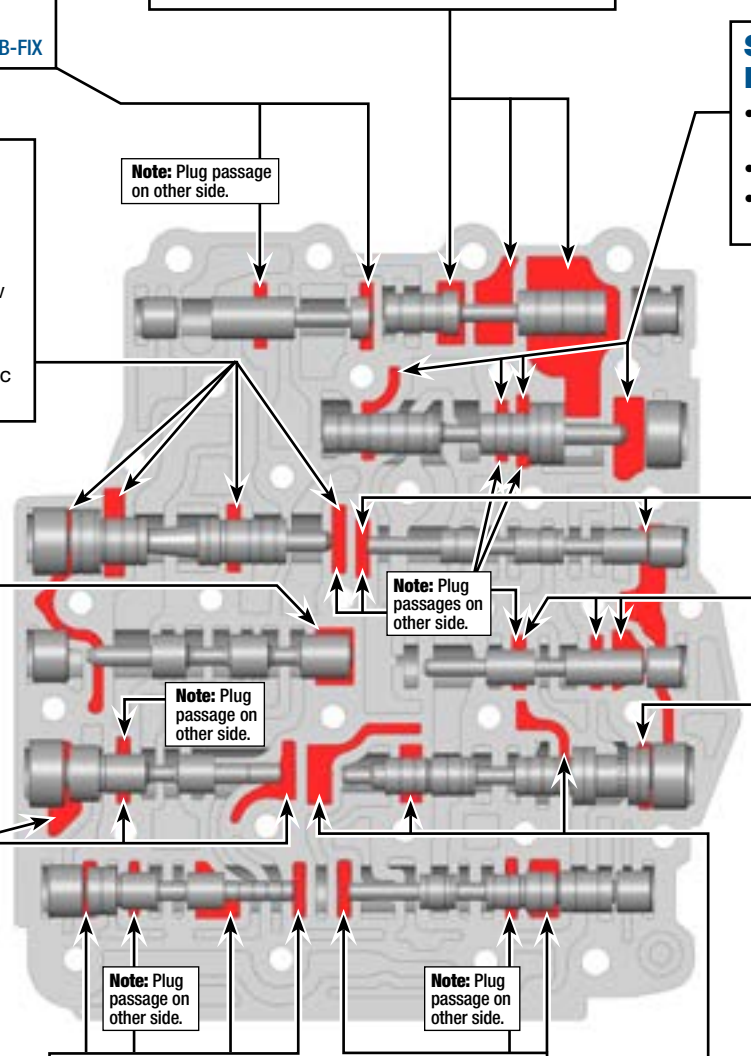
- Code P0811 • Delayed engagement
 - Forward or Reverse slip • Overheating
 - Burnt Forward or Reverse clutch
- Replace with Sonnax Part No. 33740-07K** Requires F-33740-TL7 & VB-FIX

Forward & Reverse Engagement Valve

- Delayed engagement
- Harsh engagements
- P0811 Excessive Forward or Reverse slip

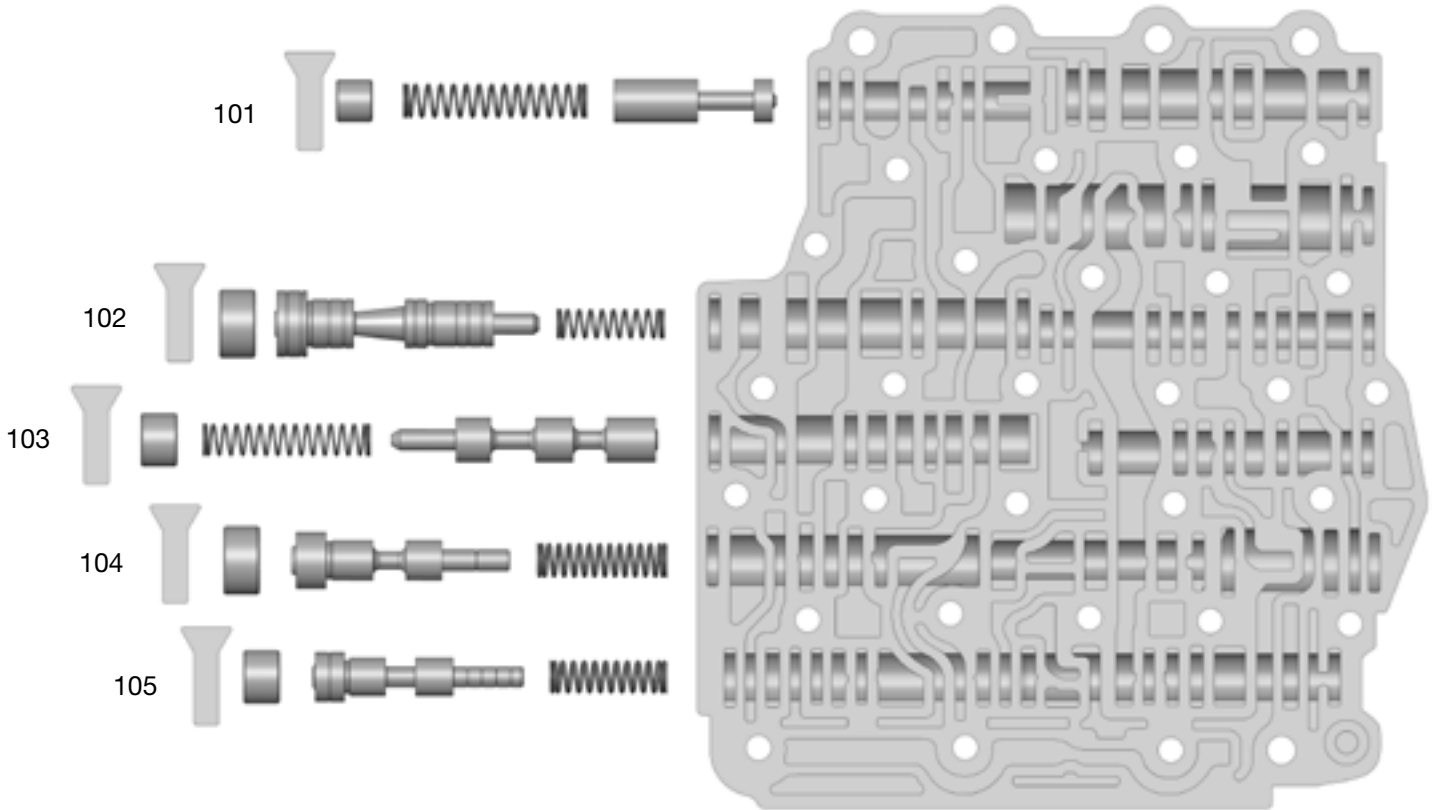
Primary Pulley Regulator Valve

- No high ratios
- No ratio change
- P0730 Gear ratio code



OE Exploded View

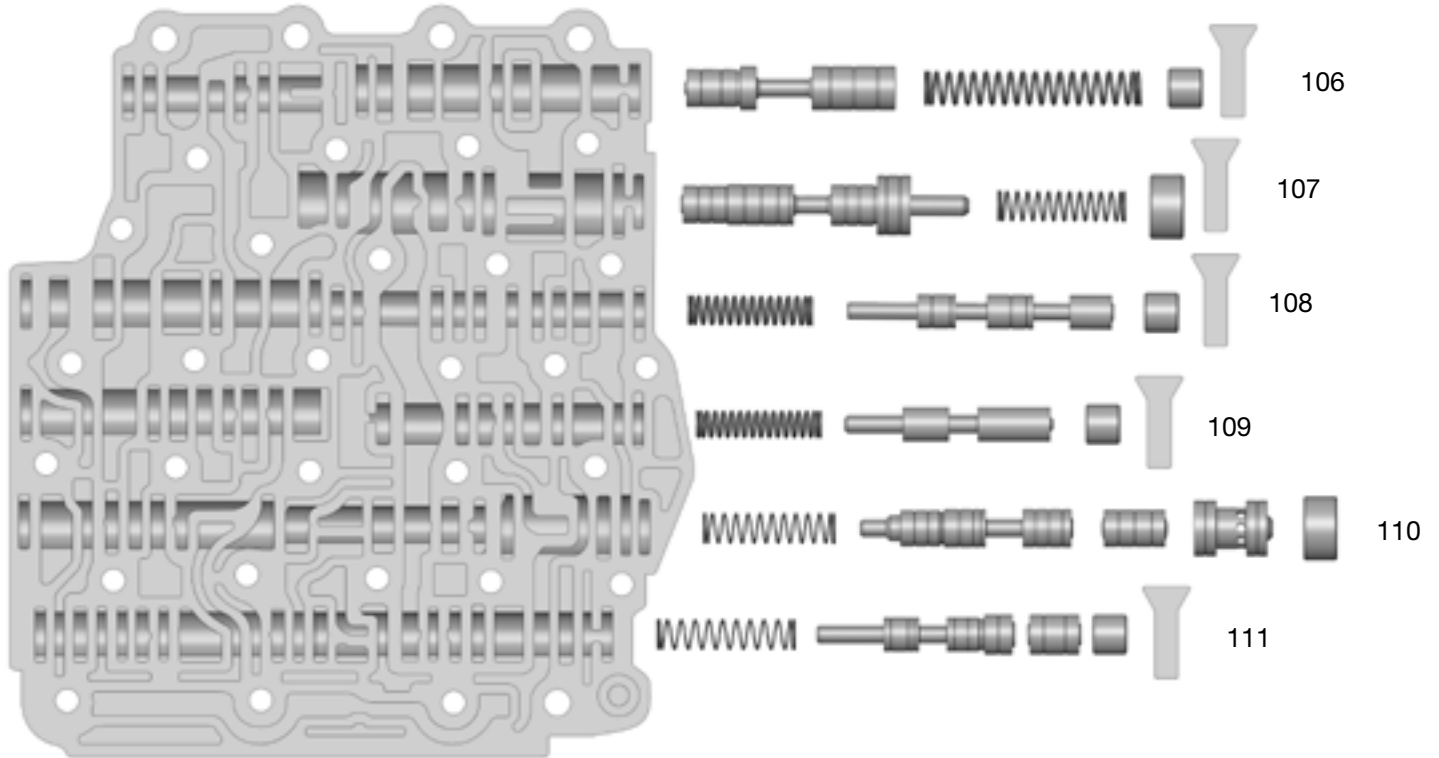
Valve Body • Left Side



Left Side Valve Body Descriptions	
I.D No.	Description
101	Lube Regulator Valve
102	Line Pressure Regulator Valve
103	Lockup Switch Valve
104	Lockup Apply Valve
105	Forward & Reverse Engagement Latch Valve

OE Exploded View

Valve Body • Right Side

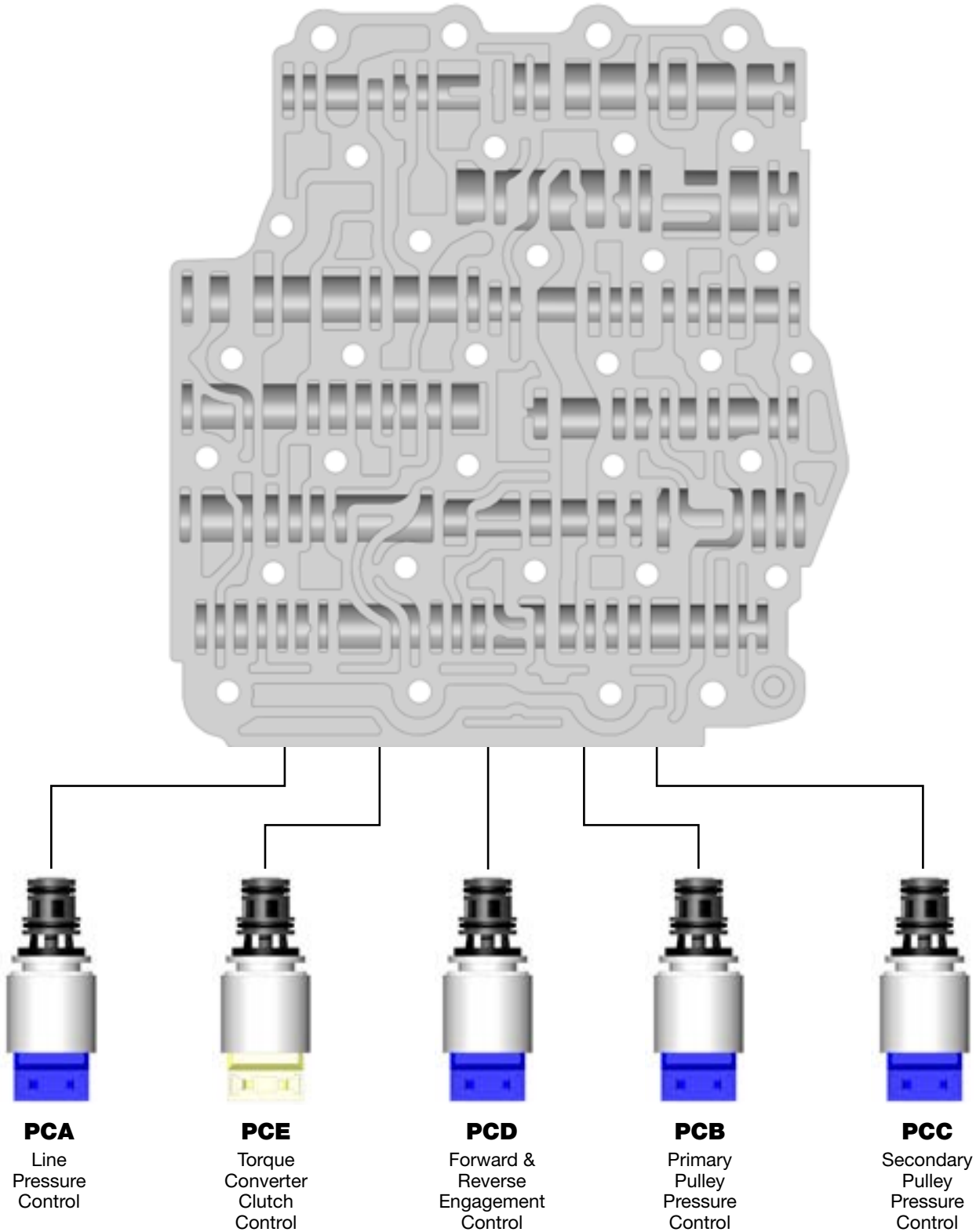


Right Side Valve Body Descriptions

I.D No.	Description
106	TCC Regulator Valve
107	Secondary Pulley Regulator Valve
108	Primary Pulley Switch Valve
109	Solenoid Regulator Valve
110	Primary Pulley Regulator Valve (inboard) Boost Valve Assembly (outboard)
111	Forward & Reverse Engagement Valve

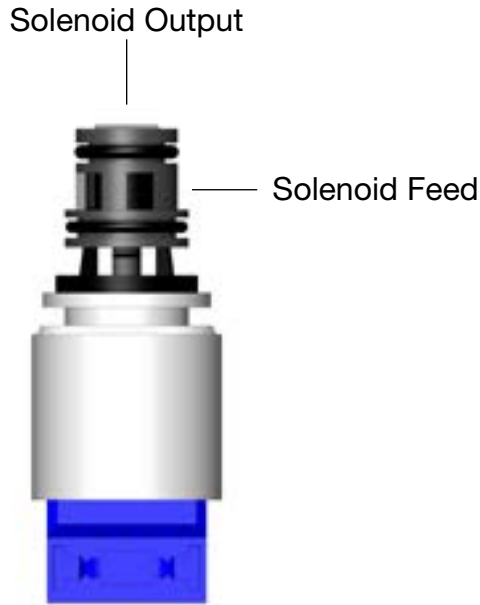
OE Exploded View

Valve Body • Solenoid Locations & Identification

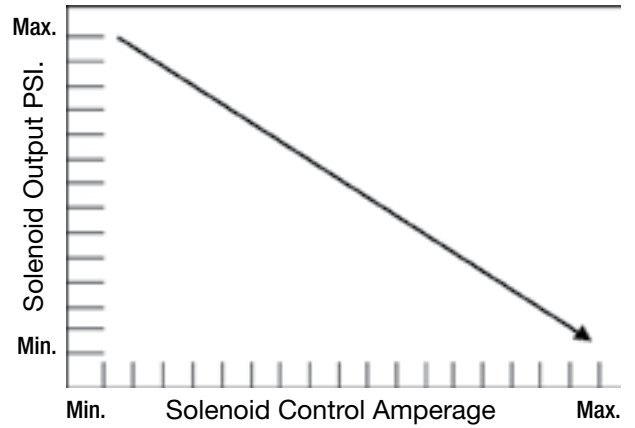


OE Solenoids

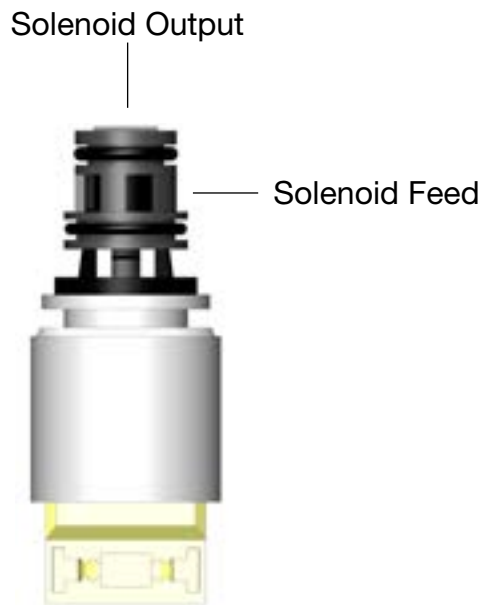
PCA, PCB, PCC & PCD are Normally High PWM Solenoids



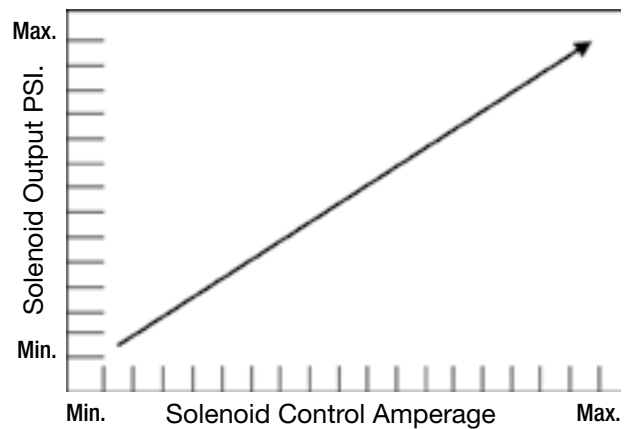
Resistance Value
is 5–6 Ohms



Torque Converter Clutch Solenoid is a Normally Low PWM Solenoid

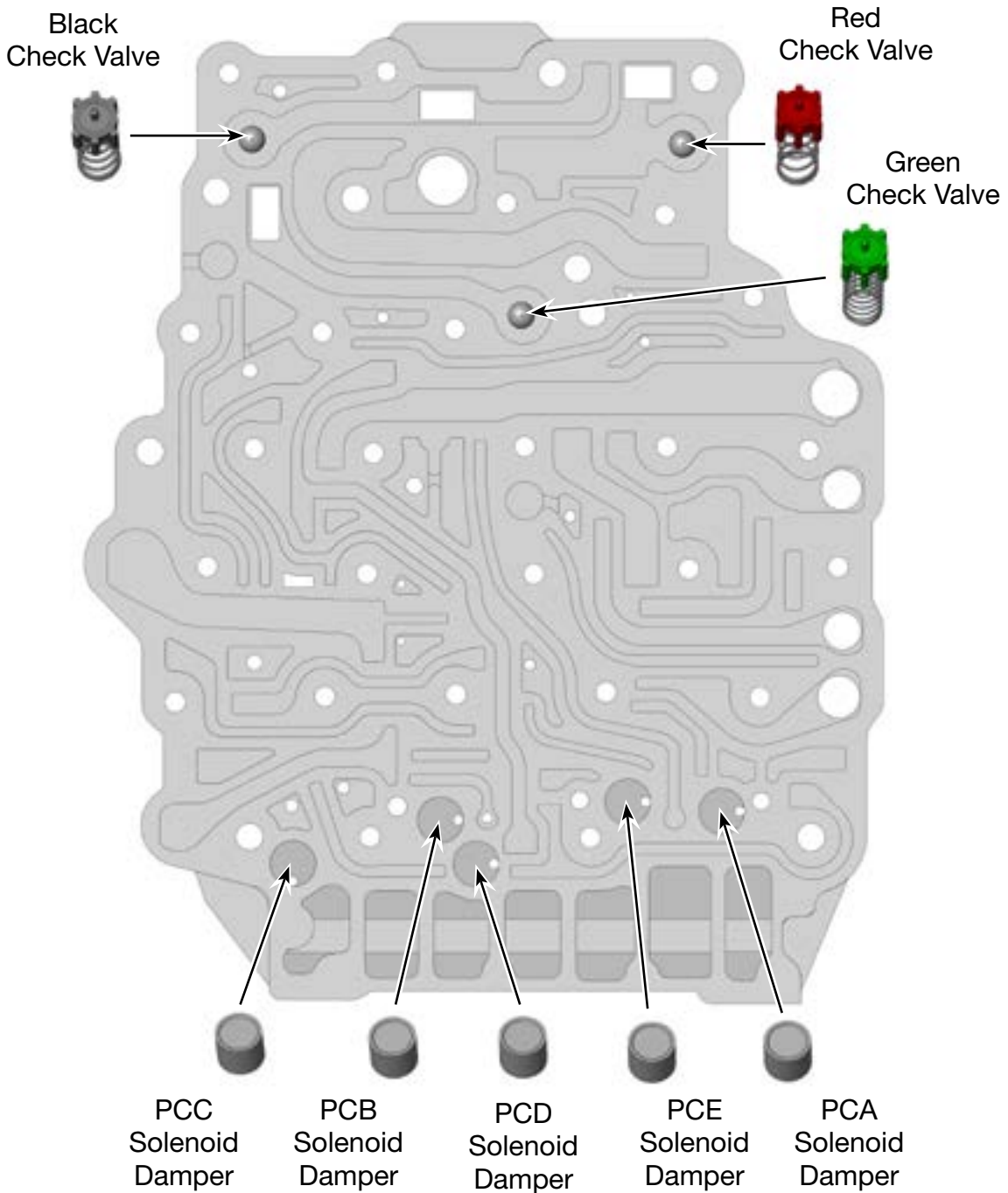


Resistance Value
is 5–6 Ohms



OE Exploded View

Channel Plate • Check Valves & Dampers



OE Spring Specifications

Main Valve Body & Channel Plate

Main Valve Body	CFT30 Spring Specifications						
Valve Name	OD	FL	Wire	Total Coils	Ends*	Color	Wind
Lube Regulator Valve	0.381	2.015	0.035	16.5	C & G	na	Right
Line Pressure Regulator	0.330	1.180	0.030	11.5	C & G	na	Right
Lockup Switch Valve	0.358	1.838	0.027	16.5	C & G	na	Right
Lockup Apply Valve	0.378	1.422	0.039	14.5	C & G	na	Right
Forward and Reverse Engagement Latch Valve	0.365	1.280	0.043	12.5	C & G	na	Right
Torque Converter Regulator Valve	0.402	2.560	0.039	19.5	C & G	na	Right
Secondary Pulley Regulator Valve	0.358	1.500	0.026	14.5	C & G	na	Right
Primary Pulley Switch Valve	0.350	1.462	0.042	15.5	C & G	na	Right
Solenoid Regulator Valve	0.322	1.470	0.043	16.5	C & G	na	Right
Primary Pulley Regulator Valve	0.358	1.548	0.022	13.5	C & G	na	Right
Forward and Reverse Engagement Valve	0.360	1.620	0.023	12.5	C & G	na	Right

Channel Plate	CFT30 Spring Specifications						
Valve name	OD	FL	Wire	Total Coils	Ends*	Color	Wind
Red Check Valve	0.413	0.930	0.031	7	C & G & T	na	Right
Green Check Valve	0.396	1.046	0.023	11.5	C & G & T	na	Right
Black Check Valve	0.428	0.930	0.035	7	C & G & T	na	Right

*KEY: C = Cut; G = Ground; T = Tapered.