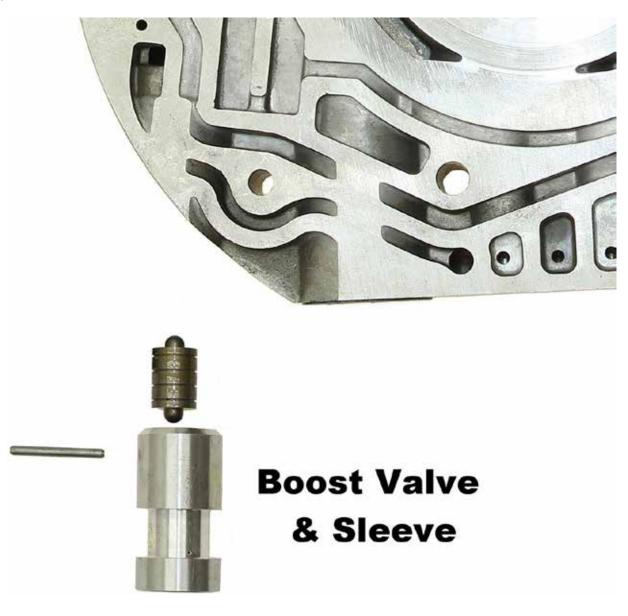


Transmission: 6L Series Subject: Low Line Rise in R, Delayed Reverse Engagement, Slipping, Burnt Clutches Application: GM Issue Date: June, 2015

6L Series

Low Line Rise in R, Delayed Reverse Engagement, Slipping

While working on a GM vehicle equipped with a 6L series transmission, you may encounter erratic or low line rise in reverse, delayed reverse engagement, slipping or burnt clutches. These concerns may be caused by a worn boost valve and sleeve located in the pump. Replacing the boost valve and sleeve may repair this concern.



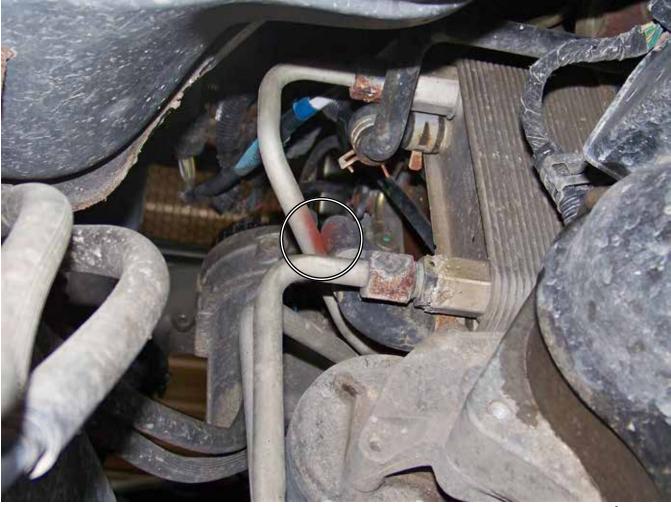


Transmission: 48RE Subject: Transmission Oil Cooler Line Leak Application: 05-06 Dodge Ram 2500-5500 Issue Date: June, 2015

48RE Transmission Oil Cooler Line Leak

While working on a 2005-2006 Dodge Ram R2500-R5500 equipped with a 5.9 D engine and a 48RE transmission, you may notice the transmission converter cooler hose (coolant) resting or rubbing on the transmission converter cooler line (hydraulic) (Figure 1). Allowing the converter cooler hose to rest or rub on the converter cooler line may cause a leak in the cooler line. It would be recommended to reposition the converter cooler hose away from the cooler line and insulate the cooler line to prevent further damage (Figure 2).

Thank you Jeff Funk of Specialty Transmission in Brighton, IL for providing this information



48RE Transmission Oil Cooler Line Leak





Figure 2

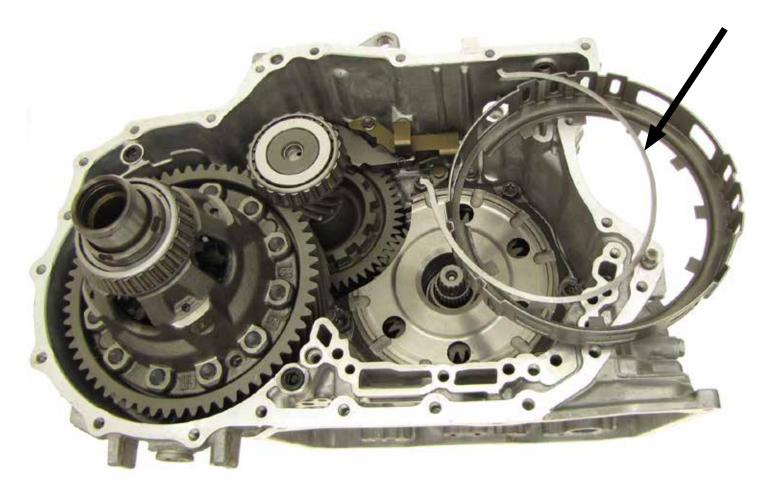


Transmission: 09G Subject: Missing B1 Clutch Housing Retaining Snap Ring Application: VW Issue Date: June, 2015

09G Missing B1 Clutch Housing Retaining Snap Ring

In the past there have been a number of inquiries concerning a missing B1 clutch housing retaining snap ring in various Volkswagen models equipped with the 09G transaxle. We have seen a number of these vehicles in shops where upon disassembly there is no B1 clutch housing retaining snap ring.

Upon closer inspection of the B1 clutch housing setup, the technician will notice the snap ring does not effectively retain the B1 clutch housing in the transmission, and is not necessary for normal operation. A good rule of thumb is to reuse the snap ring if it was installed in the transmission and found during disassembly and to leave it out if there was no snap ring installed. Refer to the figure below for identification and location of the B1 clutch housing retaining snap ring.





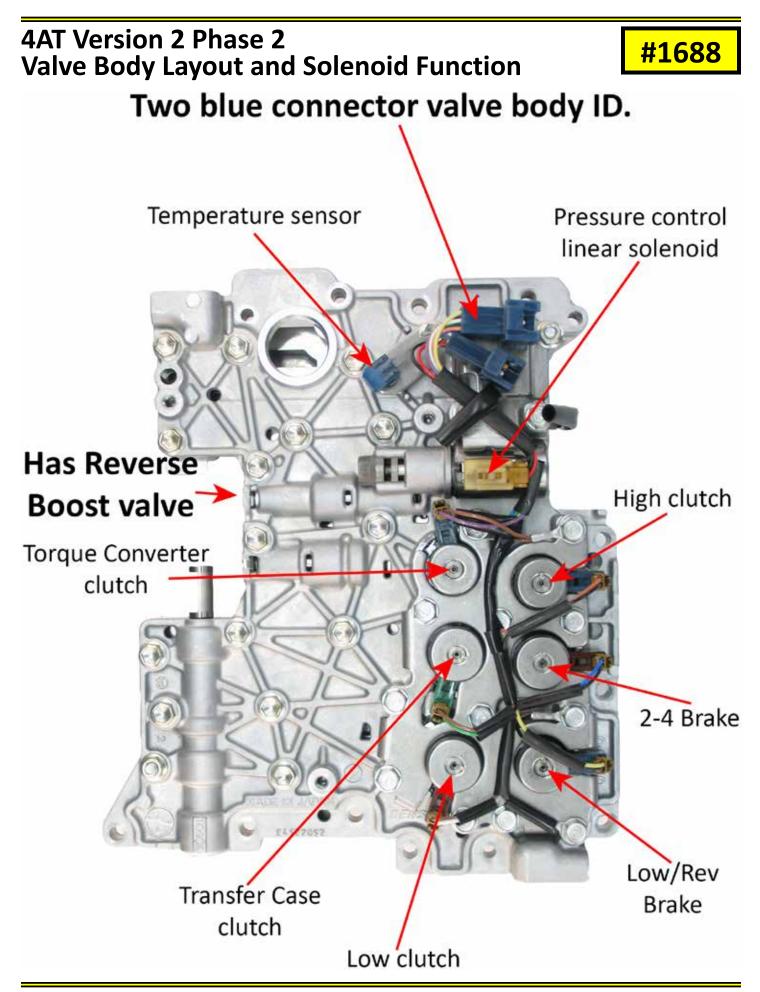
Transmission: 4AT Version 2 Phase 2 Subject: Valve Body Layout and Solenoid Function w/ 2 Blue Connectors Application: Subaru Issue Date: June, 2015

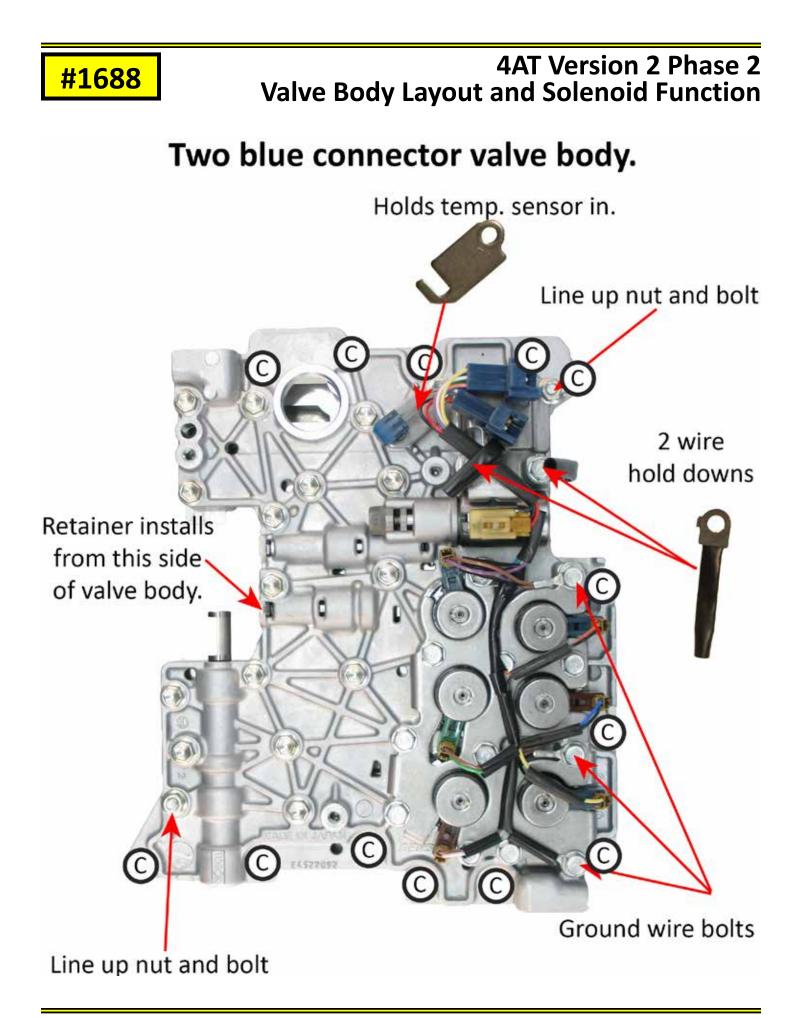
4AT Version 2 Phase 2 Valve Body Layout and Solenoid Function

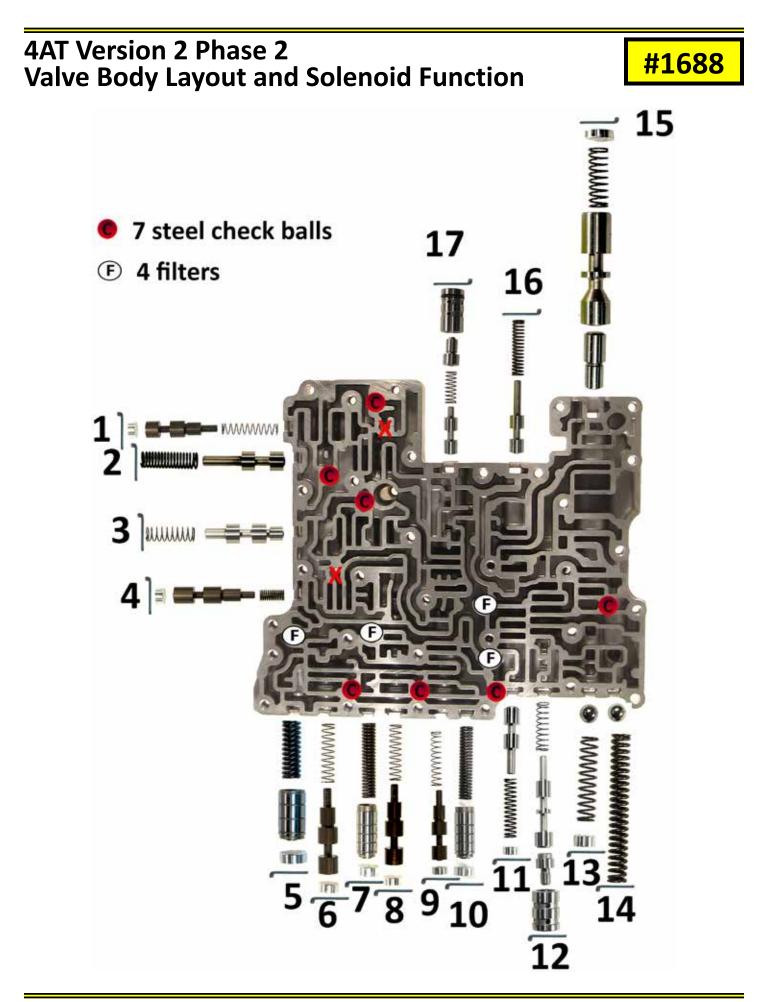
This bulletin applies to the following vehicles: 2004 and later Forester Turbo, 2005 and later Forester Non-Turbo, 2005 and later Legacy/Outback, 2006 and later Impreza Turbo and the 2005 and later Impreza Non-Turbo.

Subaru has a few different valve body configurations. The 4AT Version 2 Phase 2 has six solenoids in group and one linear pressure control solenoid that are separate. Many people refer to them as a "six pack" style.

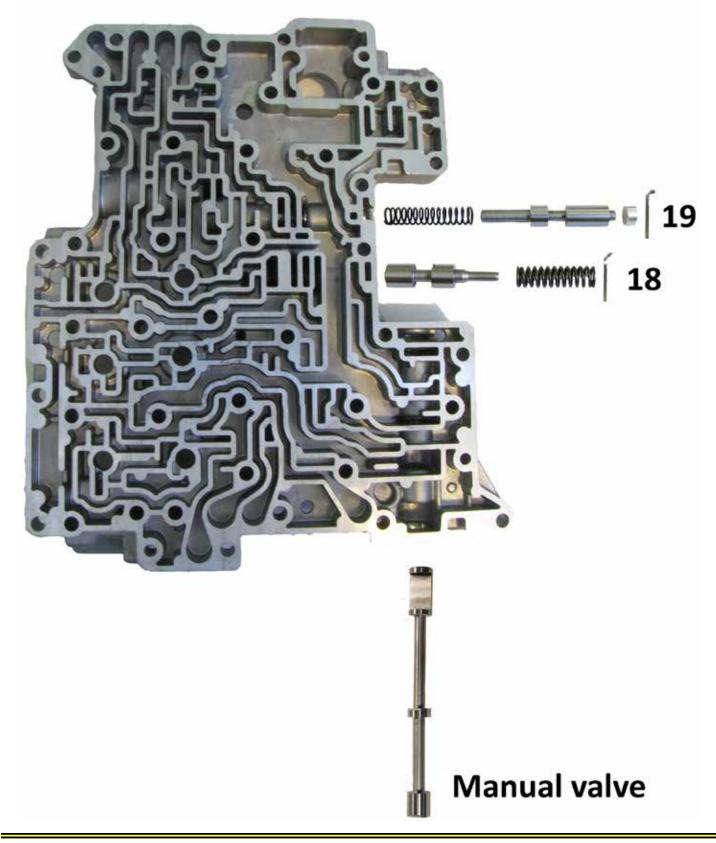
The first step is to ID the valve body by the solenoid main connector. There are three different styles of connectors: single black, 2 blue and 2 red. Special Thanks to Perfection Plus Transmission Parts.





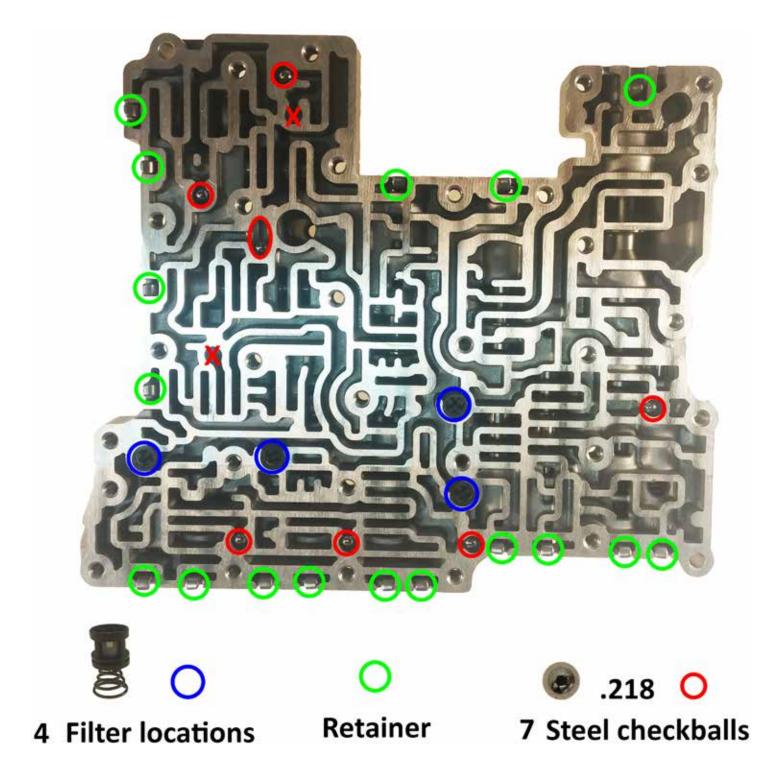


4AT Version 2 Phase 2 Valve Body Layout and Solenoid Function 2 Blue connector lower valve body.

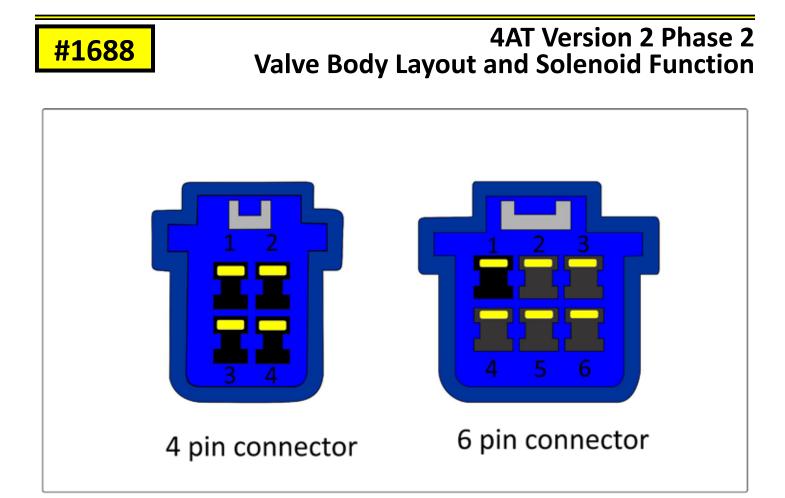


Bore # **Valve Function Free Length Outside Diameter** Wire Size 1 Low/Reverse 1.548" 0.329" 0.021" 1.45" 0.36" 2 Low/2-4 0.045" 0.031" 3 Low/Reverse 1.258" 0.354" **Transfer Clutch** 0.601" 0.304" 0.026" 4 5 Low Accumulator 1.142" 0.062" 0.338" 6 1.35" 0.328" 0.021" Low Clutch 1.645" 0.321" 0.052" 7 2-4 Accumulator 8 2-4 Brake 1.276" 0.326" 0.021" 9 1.55" 0.329" 0.021" **High Clutch High Accumulator** 10 1.648" 0.322" 0.052" 0.331" 0.034" 1.425" 11 Lock-up Lock-up 12 1.194" 0.354" 0.031" 1.514" 0.354" 0.039" 13 Lube limit (.343 ball) 14 2.693" 0.374" 0.061" Line limit (.343 ball) 15 **Pressure Reulator** 1.364" 0.431" 0.046" 16 TCC/Lube 1.665" 0.352" 0.052" 17 2-4 Brake 1.027" 0.35" 0.031" 18 Pilot 1.154" 0.353" 0.045" 19 **Reverse boost** 1.884" 0.36" 0.041"





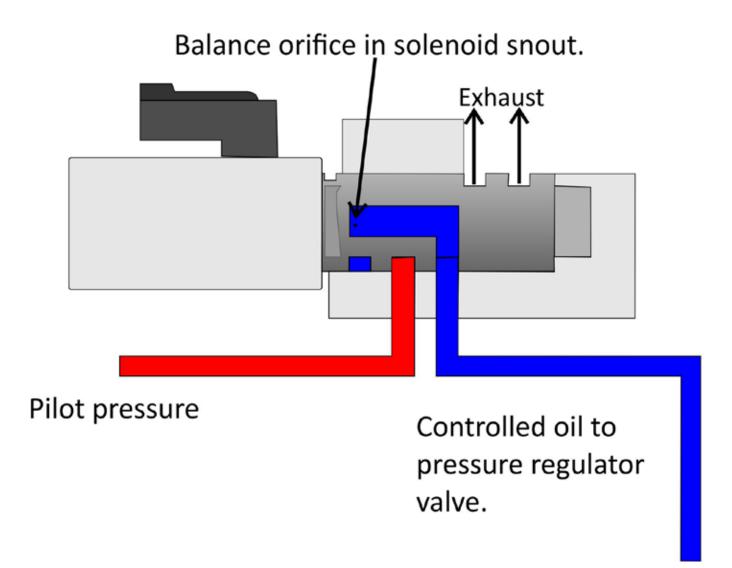
Temp. Sensor Line Pressure TCC solenoid \odot High Clutch solenoid Transfer Clutch solenoid 2-4 Brake solenoid \bigcirc 0 • Low clutch solenoid Low/Reverse solenoid \bigcirc

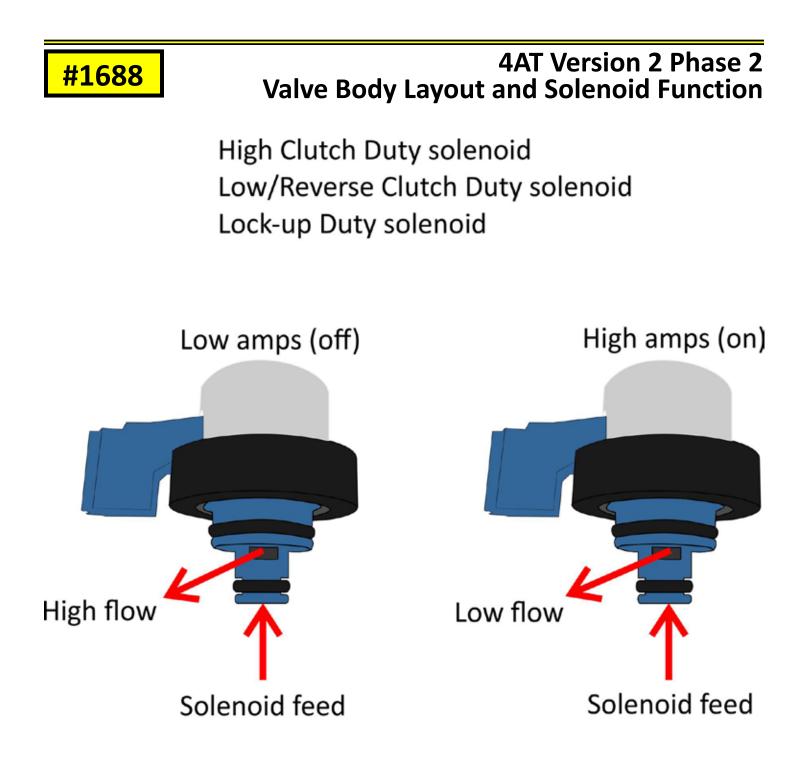


Solenoid/sensor	Connector	Pins	Ohm's
Temp. sensor	4 pin connector	2 & 4	4.3 @ 70F
Pressure control	4 pin connector	1&3	4-8 Ohm's
High clutch	6 pin connector	1 & ground	2-6 Ohm's
Low clutch	6 pin connector	2 & ground	2-6 Ohm's
Low/Rev clutch	6 pin connector	3 & ground	2-6 Ohm's
2-4 Brake	6 pin connector	4 & ground	2-6 Ohm's
Transfer clutch	6 pin connector	5 & ground	2-6 Ohm;s
TCC clutch	6 pin connector	6 & ground	2-6 Ohm's

The Pressure Control Linear solenoid controls oil flow and pressure to the spring side of the Pressure Regulator valve to provide line raise.

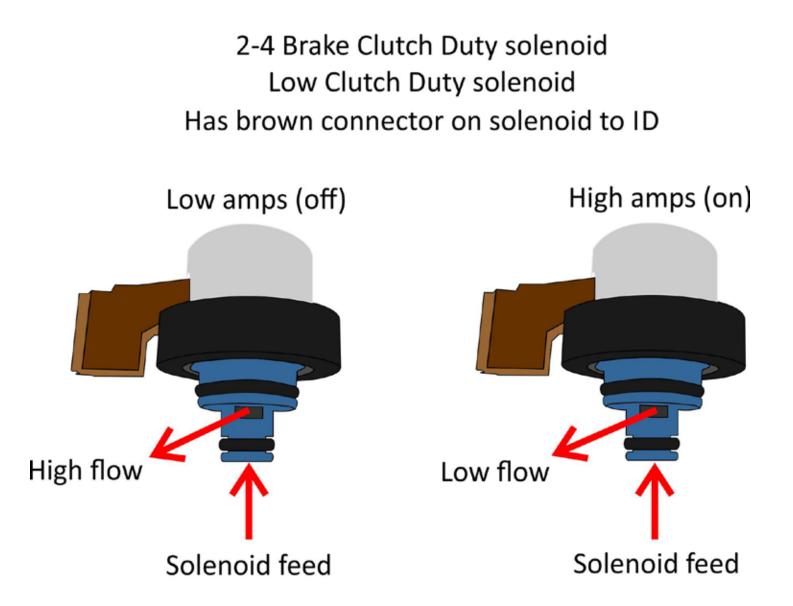
The Pressure Control Linear solenoid has 4-8 Ohm's.





These solenoids are high side driven and the ground side is connected to a bolt on the valve body.

Solenoid has 2-6 Ohm's

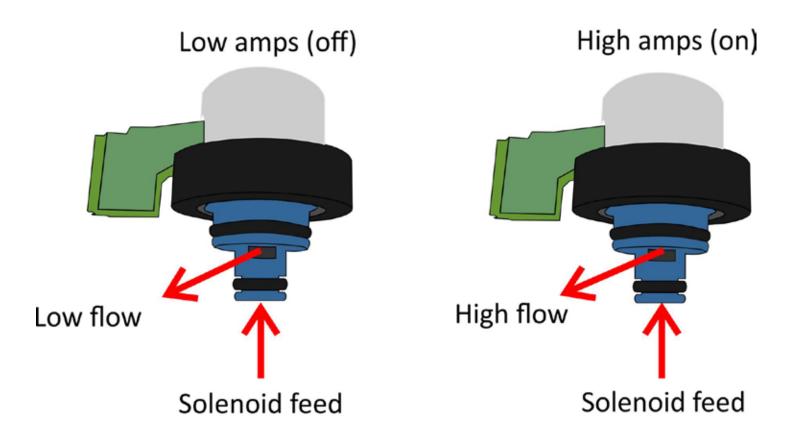


These solenoids are high side driven and the ground side is connected to a bolt on the valve body.

Solenoid has 2-6 Ohm's



Transfer Case Clutch solenoid Has green connector on solenoid to ID.



These solenoids are high side driven and the ground side is connected to a bolt on the valve body.

Solenoid has 2-6 Ohm's



Transmission: 6L Series Subject: Erratic Line Pressure, Slipping, Burnt Clutches, Overheating Concerns Application: GM Issue Date: June, 2015

6L Series Erratic Line Pressure, Silpping, Burnt Clutches, Overheating

While working on a G.M. vehicle equipped with a 6L series transmission, you may encounter erratic line pressure, slipping, burnt clutches transmission overheating concerns. These concerns may be caused by a worn pressure regulator valve and bore located in the pump. Replacing the pressure regulator valve located to repair this concern.

