4L60E/65E/70E

SUDDEN LOSS OF LINE PRESSURE

COMPLAINT: A GM vehicle equipped with a 4L60E transmission has an after overhaul complaint of a sudden severe slip condition in all gear range positions. A line pressure check reveals little or no line rise with below minimum pressure readings.

CAUSE: The transmission rebuilder did not fully seat the pressure regulator valve retaining snap ring into the groove in the valve bore. On the road test, the snap ring was ejected which allowed the line boost sleeve to back out of its bore and exhaust a large volume of fluid creating the sudden loss of line pressure, refer to figure 1.

CORRECTION: Secure the pump cover when installing the pressure regulator valve assembly and make certain to push the boost sleeve past the retaining snap ring groove to ensure the snap ring is fully seated into the groove, refer to figure 2.
Test it a few times by pushing down on the valve assembly and then letting it snap back up to the retaining snap ring to guarantee it will remain seated.

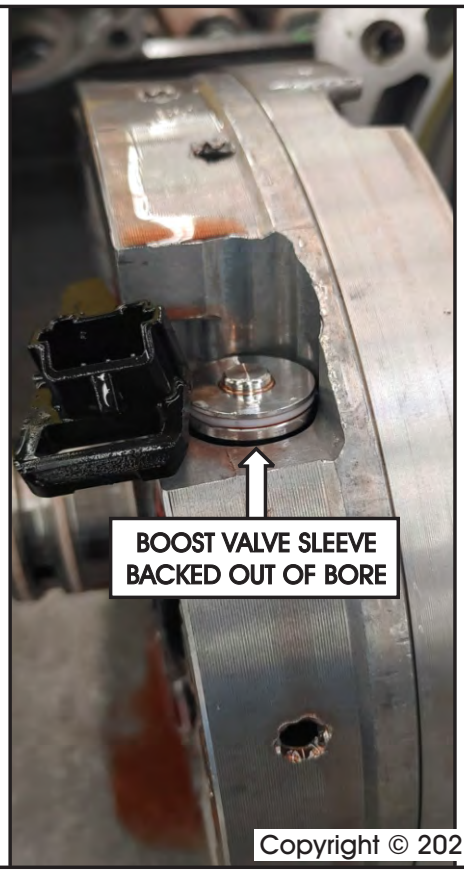

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Figure 1

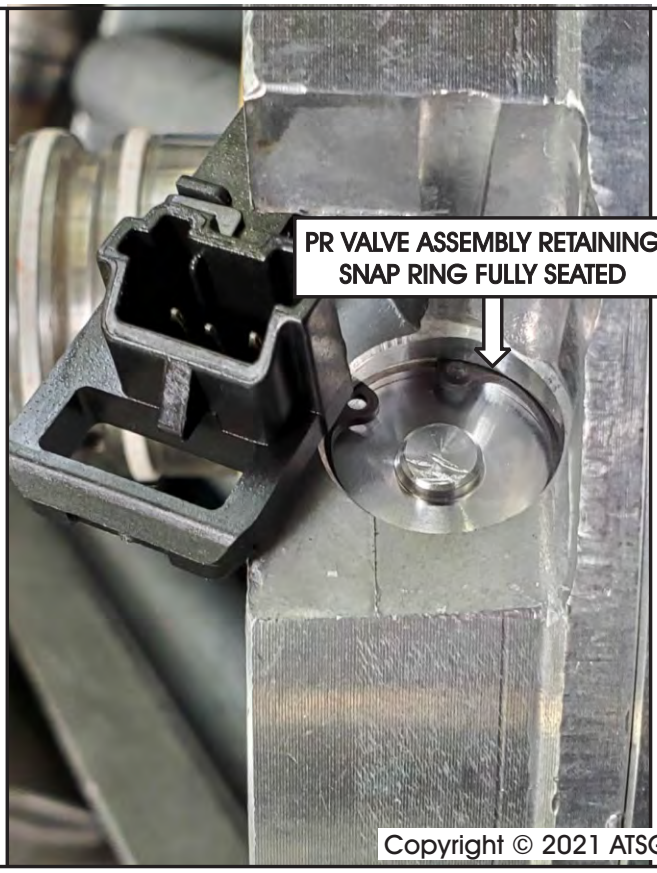

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Figure 2