

Title: Gearbox accumulator pressure relief

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The addition of this throttle-sensitive, 1-2 accumulator pressure helps to better control the shift feel based upon the speed of the vehicle. So, a higher speed will result in greater back pressure ...

As hydraulic fluid enters the accumulator, it compresses the gas, increasing its pressure and reducing its volume. The amount of stored hydraulic fluid is the difference between the original ...

In a typical circuit using this type of accumulator, the maximum system pressure must be higher than working pressure to allow for this pressure drop. Some circuits cannot operate at these ...

Now comes the fun part: you can firm up the shifts in any automatic transmission that uses accumulators by either replacing the accumulator spring with a heavier or lighter one.

As pressure increases in the circuit, the accumulator piston is allowed to stroke downward in its bore. It absorbs some of the pressure from the circuit, softening and delaying the shift.

Hydraulic accumulator pressure can be adjusted by using a pressure relief valve. This valve allows excess pressure to be released from the accumulator, reducing the pressure to the desired level.

Learn how to identify letter codes on accumulator valves in 4L60 and 4L60-E transmissions to understand what amount of pressure results in the shift feel.

The addition of this throttle-sensitive, 1-2 accumulator ...

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