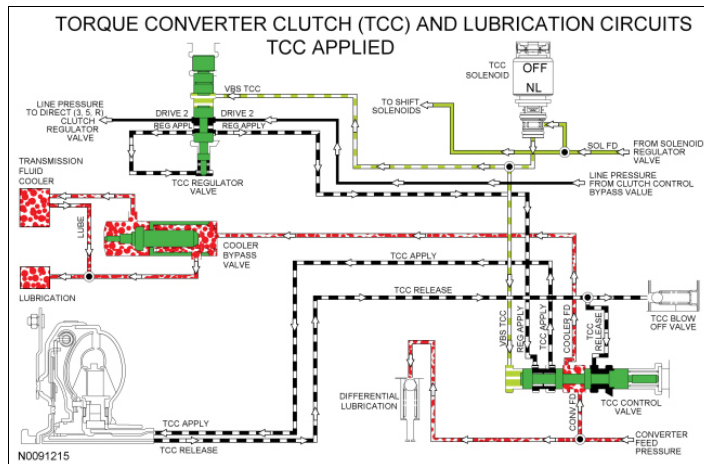


When the TCC clutch is applied, the TCC solenoid applies pressure to the TCC control and regulator valves to position the valves to apply the TCC clutch. Regulated line pressure is supplied to the TCC control valve through the REG APPLY circuit by the TCC regulator valve. The TCC control valve directs the regulated line pressure from the REG APPLY circuit to the TCC APPLY circuit to apply the TCC . The TCC control valve blocks the TCC RELEASE circuit to maintain pressure in the TCC APPLY circuit. The TCC control valve directs the CONV FD circuit to the COOLER FD circuit to allow the transmission fluid to flow through the thermal bypass valve or the transmission fluid cooler to the LUBE circuit to lubricate the transmission.

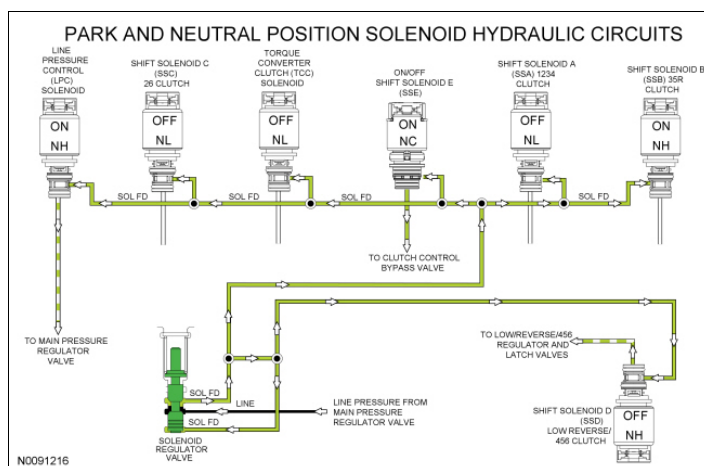


## Solenoid Hydraulic Circuits

Line pressure from the main pressure regulator valve is directed to the individual shift, TCC and LPC solenoids by the solenoid regulator valve through the SOL FD circuit. The solenoids, controlled by the PCM, direct the fluid to the valves that they control.

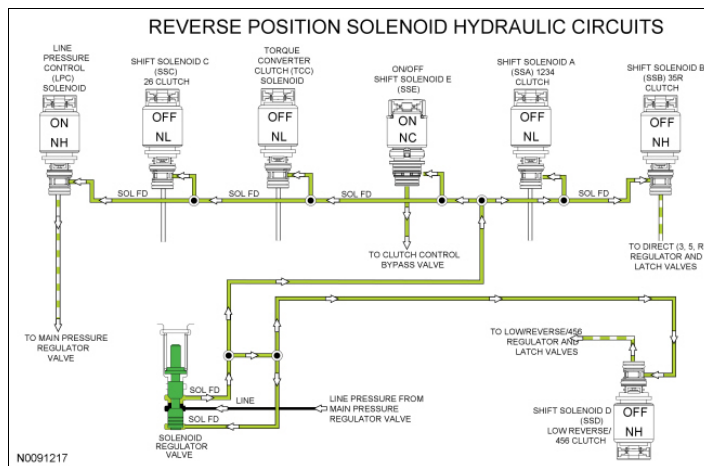
The LPC solenoid applies varying pressure to the main pressure regulator valve to control line pressure.

In the PARK and NEUTRAL positions, SSD applies varying pressure to the low reverse/456 regulator and latch valves through the VBS CBR1/456 hydraulic circuit to position the valves to apply the low/reverse clutch. ON/OFF SSE directs pressure to the clutch control bypass valve to position the valve to direct regulated line pressure from the low reverse/456 regulator valve to the low/reverse clutch.



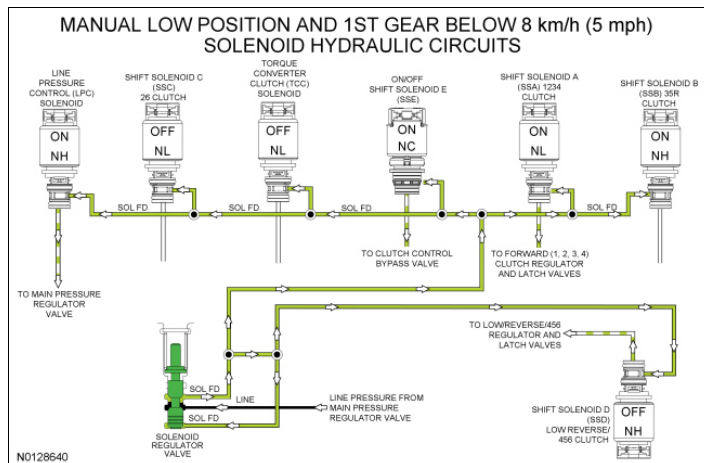
In the REVERSE position, SSD applies varying pressure to the low reverse/456 regulator and latch valves through the VBS CBR1/456 hydraulic circuit to position the valves to apply the low/reverse clutch. ON/OFF SSE directs pressure to the clutch control bypass valve to position the valve to direct regulated line pressure from the low reverse/456 regulator valve to the low/reverse clutch. The clutch control bypass valve also directs line pressure from the REVERSE circuit to the 35R regulator valve through the C35R FD and DRIVE

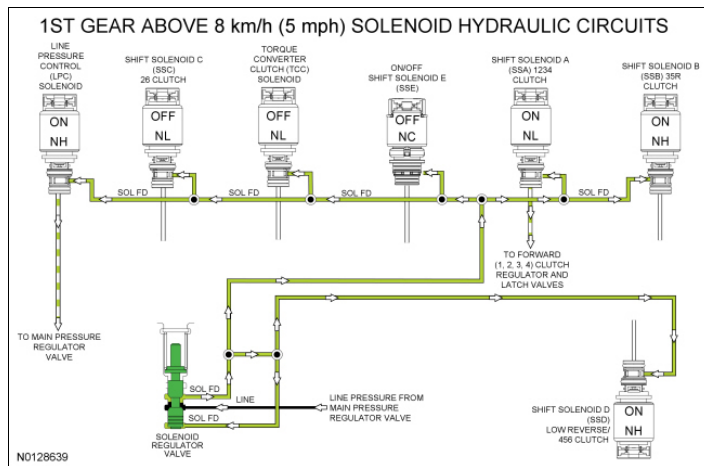
2/C35R FD circuits. SSB directs varying pressure to the 35R regulator and latch valves through the VBS C35R hydraulic circuit to apply the direct (3, 5, R) clutch.



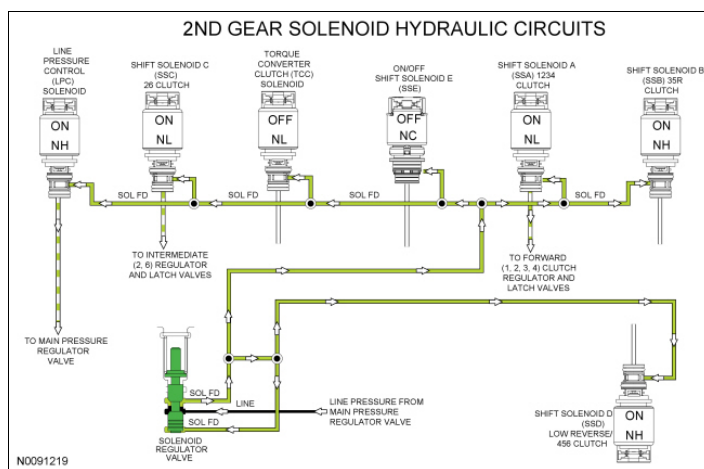
In 1st gear, SSA applies varying pressure to the 1234 clutch regulator and latch valves through the VBS C1234 hydraulic circuit to apply the forward (1, 2, 3, 4) clutch.

When vehicle speed is below 8 km/h (5 mph), or the selector lever is in the manual low position, SSD applies varying pressure to the low reverse/456 regulator and latch valves through the VBS CBR1/456 hydraulic circuit to position the valves to apply the low/reverse clutch. ON/OFF SSE directs pressure to the clutch control bypass valve to position the valve to direct regulated line pressure from the low reverse/456 regulator valve to the low/reverse clutch. As vehicle speed increases above 8 km/h (5 mph) in 1st gear, SSD removes pressure from the low reverse/456 regulator and latch valves and SSE removes pressure from the clutch control bypass valve to release the low/reverse clutch.

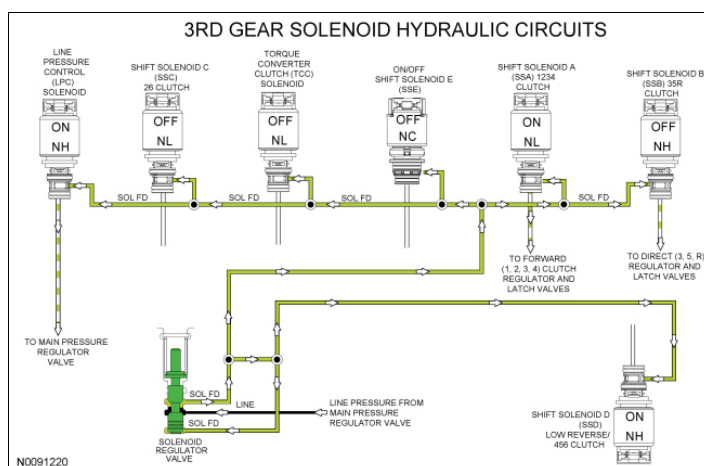




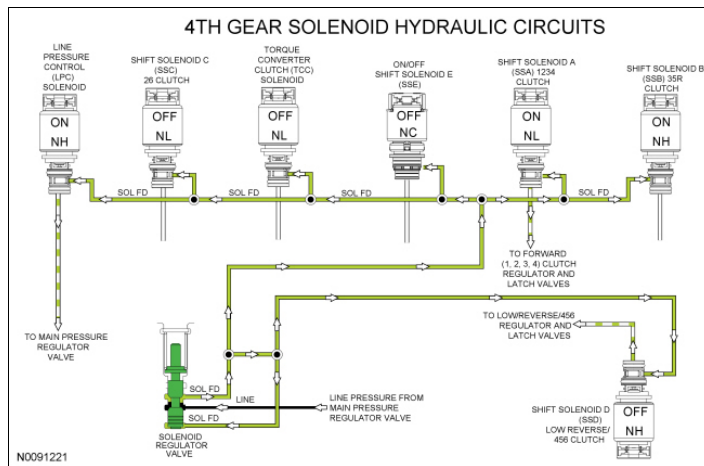
In 2nd gear, the forward (1, 2, 3, 4) clutch remains applied. SSC applies varying pressure to the 26 regulator and latch valves through the VBS CB26 hydraulic circuit to apply the intermediate (2, 6) clutch.



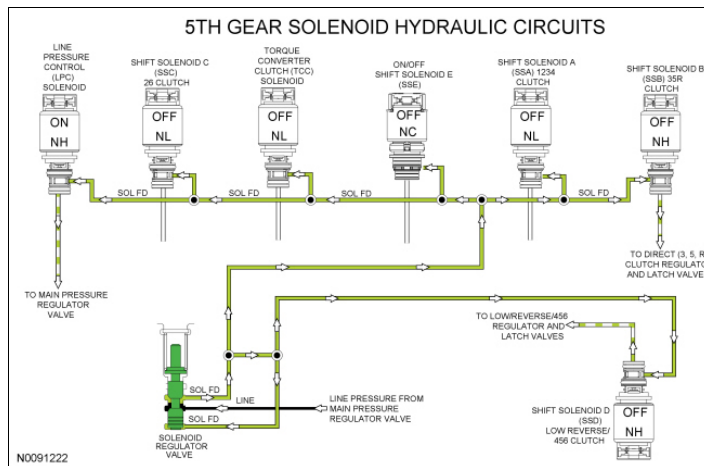
In 3rd gear, the forward (1, 2, 3, 4) clutch remains applied. SSC releases pressure to the 26 regulator and latch valves to release the intermediate (2, 6) clutch. SSB directs pressure to the 35R regulator and latch valves through the VBS CB26 hydraulic circuit to apply the direct (3, 5, R) clutch.



In 4th gear, the forward (1, 2, 3, 4) clutch remains applied. SSB releases pressure to the 35R regulator and latch valves. SSD directs pressure to the low reverse/456 regulator and latch valves through the VBS CBR1/456 hydraulic circuit. With SSE released, the clutch control bypass valve directs the regulated line pressure from the low reverse/456 regulator valve to the O/D (4, 5, 6) clutch to apply the clutch.



In 5th gear, the O/D (4, 5, 6) clutch remains applied. SSA releases pressure to the 1234 regulator and latch valves to release the forward (1, 2, 3, 4) clutch. SSB directs pressure to the 35R regulator and latch valves through the VBS C35R hydraulic circuit to apply the direct (3, 5, R) clutch.



In 6th gear, the O/D (4, 5, 6) clutch remains applied. SSB releases pressure to the 35R regulator and latch valves. SSC applies varying pressure to the 26 clutch regulator and latch valves through the VBS CB26 hydraulic circuit to apply the intermediate (2, 6) clutch.

The TCC can be applied in 4th, 5th or 6th gear. To apply the TCC, the TCC solenoid applies pressure to the TCC regulator valve and the TCC control valve to position the valves to apply the clutch.

