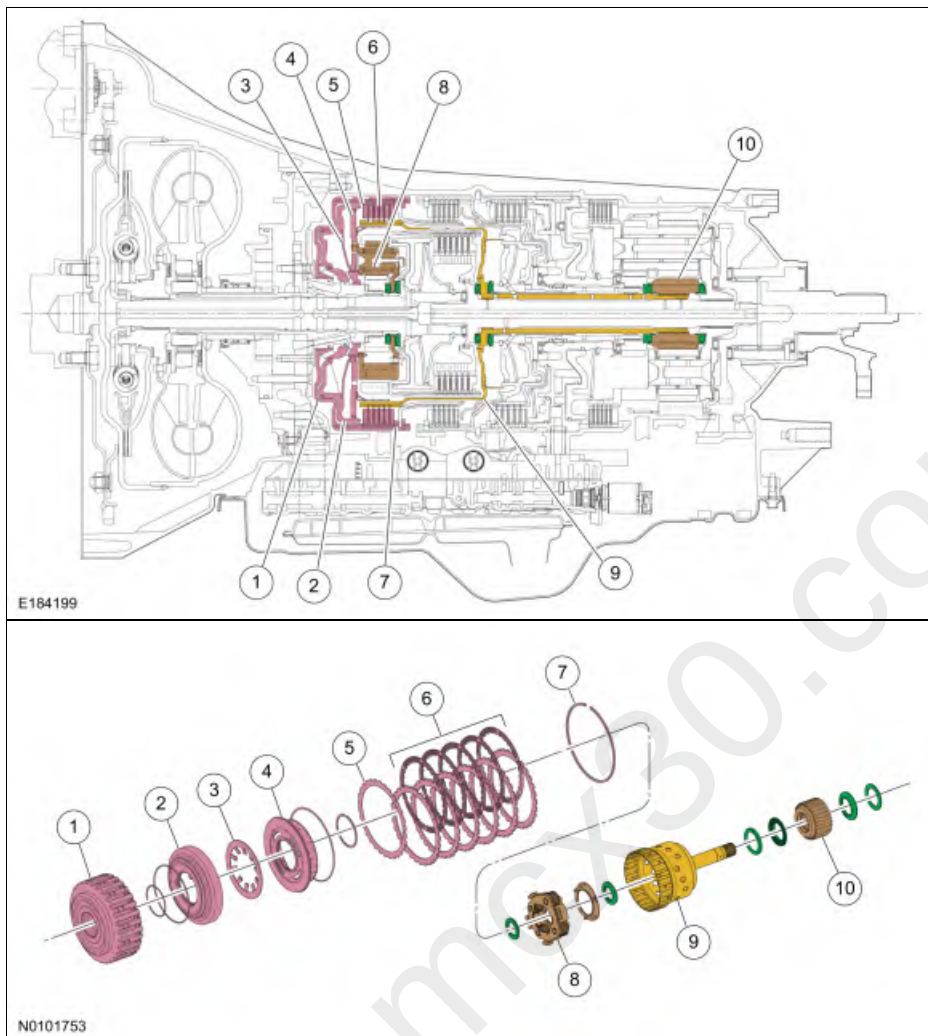


Forward Clutch Assembly

Forward Clutch Cutaway View



Item	Description
1	Forward clutch (A) cylinder
2	Forward clutch piston
3	Forward clutch piston return spring
4	Forward clutch balance piston
5	Forward clutch wave spring
6	Forward clutch assembly (quantity model dependent)
7	Forward clutch snap ring (selective)
8	Front planetary carrier assembly
9	Rear planetary No. 3 sun gear hub and shaft assembly
10	Rear planetary No. 3 sun gear

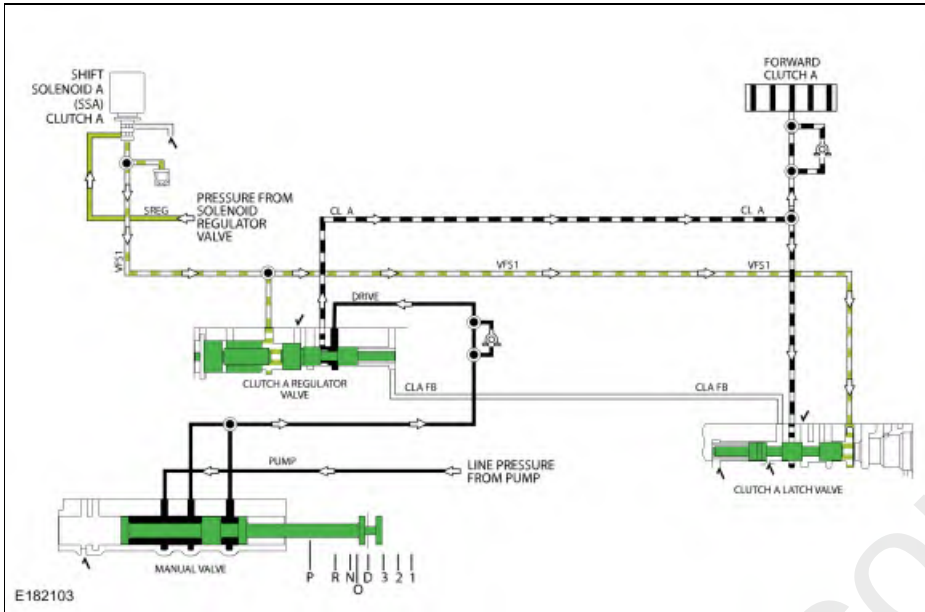
Forward Clutch Hydraulic Circuits

To apply the forward clutch, the manual valve must be in the DRIVE, 3, 2 or 1 position to provide line pressure to the clutch A regulator valve through the DRIVE circuit.

For the forward clutch to apply, SSA provides regulated solenoid pressure from the SREG circuit to the clutch A regulator and latch valves through the VFS1 circuit to position the valves.

The clutch A regulator valve provides regulated line pressure to the CL A circuit to apply the forward clutch.

Forward (1, 2, 3, 4) Clutch Hydraulic Circuits (Applied in 1st, 2nd, 3rd and 4th gear)



The forward clutch is released when the manual valve is in the NEUTRAL, REVERSE or PARK position or the when the manual valve is in the DRIVE position with the transmission in 5th or 6th gear.

To release the forward clutch, the SSA lowers pressure to the clutch A regulator and the clutch A latch valve. This blocks the regulated line pressure in the CL A circuit to release the forward clutch.

In 2nd, 3rd, 4th, 5th and 6th gear, the D2 Latch valve directs exhaust circuit pressure from the CL EXH circuit to the CL A circuit to fill the circuit and the forward clutch with fluid at low pressure, approximately 21 kPa (3 psi). This keeps air out of the Clutch A circuits resulting in smooth shifts when the clutch is applied during a downshift into 4th gear.

Forward Clutch Hydraulic Circuits Release In 5th And 6th Gear

