

## Manual Transmission and Clutch

The transmission and clutch system consist of the following:

- Manual transmission
  - T5OD is used with the 4.0L engine.
  - TR3650 is used with the 4.6L engine.
  - TR6060 is used with the 5.4L engine.
- Clutch disc
- Clutch pressure plate
- Clutch release hub and bearing
- Clutch hydraulic system
- Pilot bearing
- Flywheel

Power is delivered from the engine flywheel to the transmission. The power is transmitted through a driver-operated clutch, which allows for engagement and disengagement of the engine to the transmission.

The transmission input shaft receives the power when the clutch is engaged. The transmission then uses a system of gears to change the speed and torque relationship between the engine crankshaft and the transmission output shaft.

The purpose of the clutch is to connect and disconnect a manually operated transmission, and the remainder of the driveline system, from the engine. This allows starting and stopping the vehicle, shifting and changing speeds that correspond to the engine speed through gear changes.

The clutch with the 4.0L or 4.6L engine is a single-plate, dry-friction disc with a diaphragm-style spring pressure plate. The 5.4L clutch is a dual disc clutch and pressure plate that is serviced as an assembly.

The manual transmission has a tag to identify assemblies for repair purposes. Refer to [Section 308-03A](#), [Section 308-03B](#) or [Section 308-03C](#) for the transmission tag information.

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