#### DESCRIPTION

#### CONSTRUCTION

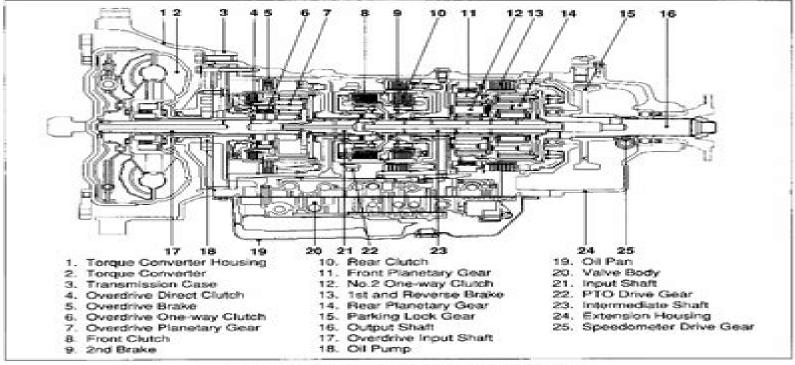


Figure 1. Construction of Automatic Transmission

The 450-43LE type automatic transmission is a four-speed automatic gear shift that is controlled electronically by the Transmission Control Module (TCM).

The TCM provides smooth and powerful driving performance by automatically selecting the optimum transmission characteristics and gear positions according to the accelerator (throttle) position, vehicle speed, and other conditions.

In an event of a malfunction of the vehicle speed sensor, throttle position sensor, solenoid or other components, it shifts to fail-safe control mode to maintain the drivability. In an event of a malfunction of the vehicle speed sensor, throttle position sensor, solenoid, engine rpm signal, etc., the

TCM's self-diagnosis function allows faster troubleshooting to enhance the vehicle's serviceability.

The automatic transmission consists of the torque converter, oil pump, gear train, and valve bodies.

The torque converter is of the 3-element, 1-stage, and 2-phase type with a built-in lock-up clutch.

The gear train consists of 3 sets of multiple-plate clutches, 3 sets of multiple-plate brakes, 2 one-way clutches, and 3 sets of planetary gear each consisting of a sun gear, a pinion gear, and a ring gear.

# <u>Isuzu Npr Nqr Automatic Transmission Shop Manual</u>

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