SHIFT PRESSURE CONTROL (DIRECT ELECTRIC SHIFT CONTROL) [FW6A-EL, FW6AX-EL]

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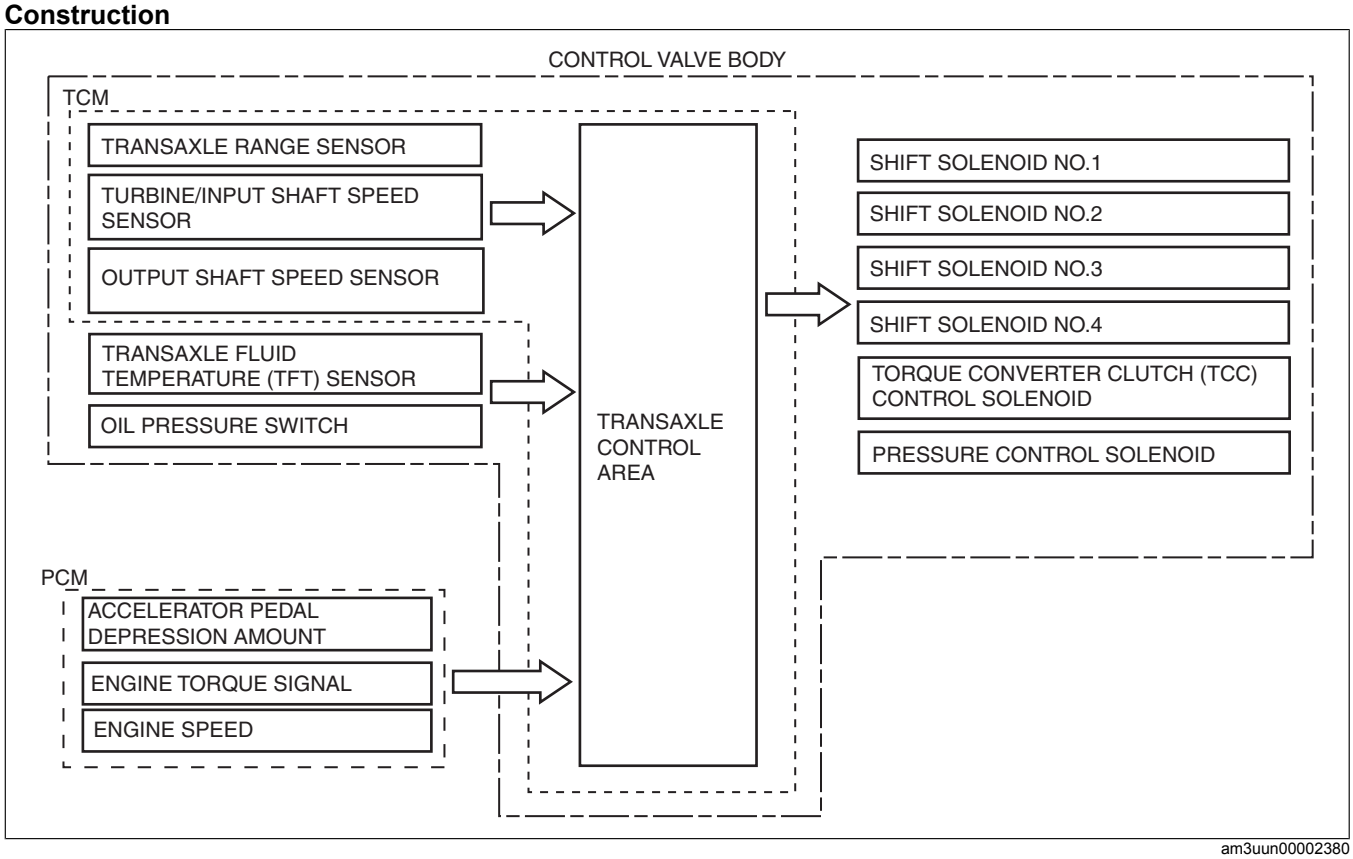
Outline

- The TCM drives shift solenoids No.1, 2, 3, 4, the pressure control solenoid, and the on/off solenoid based on inputs signals from each switch and sensor, and performs direct electronic control of the clutch engagement pressure. As a result, precise hydraulic pressure control of the clutch engagement, not possible using a conventional accumulator, is achieved.

Construction



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Operation

N to D, and N to R selected

- When N to D, and N to R are selected, the TCM drives the pressure control solenoid and shift solenoids No. 1 and 3 for optimum clutch engagement pressure control.

Shifting

- During shifting, the TCM drives shift solenoids No.1, 2, 3, and 4 to directly control the clutch engagement pressure for optimum clutch engagement pressure control.
- During each gear shift, the engagement side clutch pressure and release side clutch pressure are controlled simultaneously. As a result, the torque capacities of both clutches can be controlled in connection to each other when switching clutches, engine over-speed during shifting and interlock among clutches is prevented, and smooth and responsive shifting is achieved.