

4WD CONTROL MODULE

id031800171000

Purpose, Function

- The 4WD CM calculates the optimal amount of torque distribution for the rear wheels and outputs a corresponding electric current to the electronic control coupling (4WD solenoid). This calculation is based on the accelerator pedal angle, four-wheel speed, engine speed, and other related input signals, matched with the vehicle driving and road surface conditions.

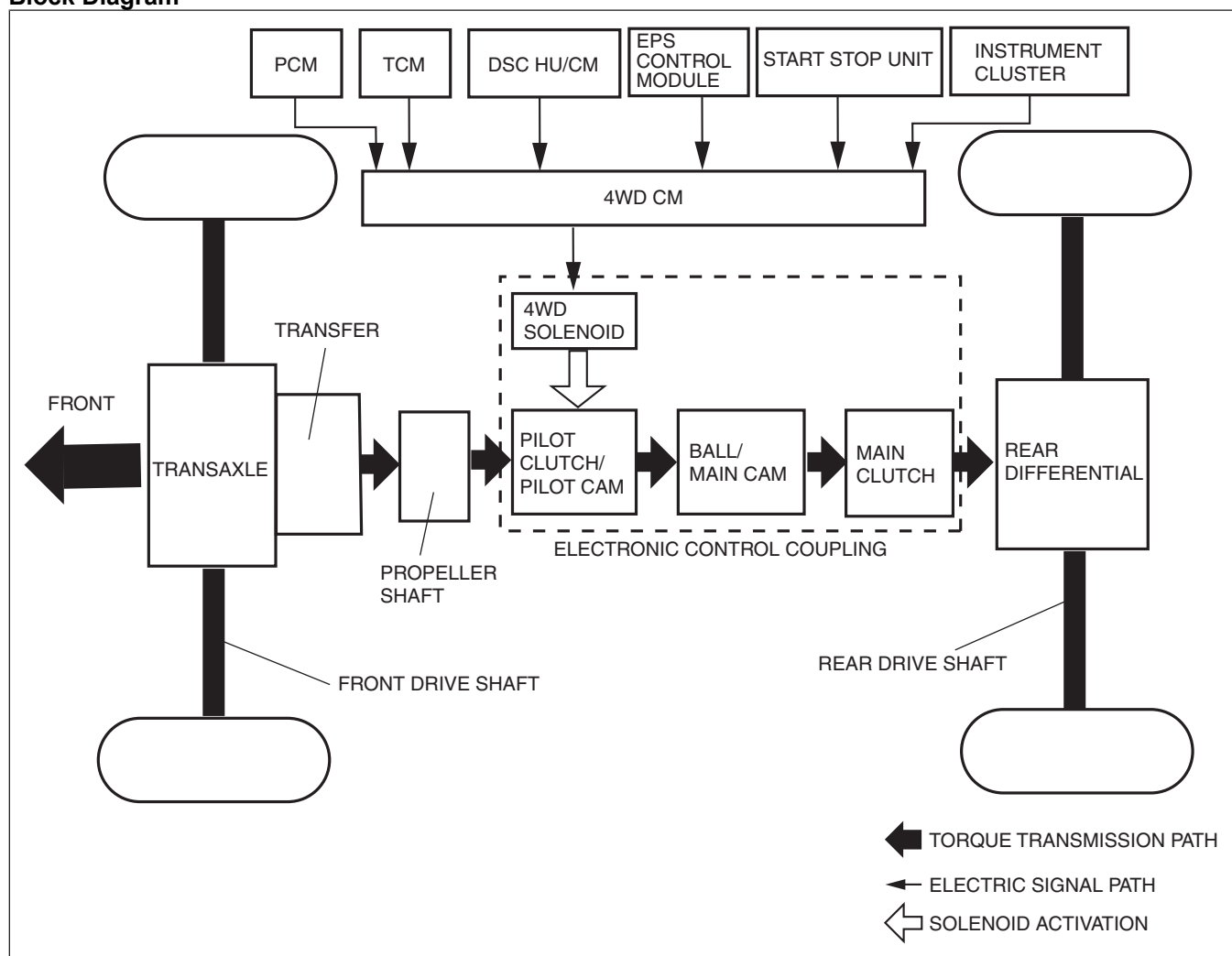
Function table

Function name	Contents
4WD system control function	<ul style="list-style-type: none"> Based on each input signal, the electronic control current sent to the electronic control coupling (4WD solenoid) is optimally controlled.
Diagnostic system	<ul style="list-style-type: none"> If the self-diagnostic system detects a malfunction, the 4WD warning light illuminates to alert the driver, and at the same time the system suspends control or performs other measures to prevent a loss of driving stability and protect the system. The detected malfunction is stored as a DTC in the 4WD CM.

Construction

- The 4WD CM is installed to the right of the dashboard. (Passenger side)

Block Diagram



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Fail-safe

DTC	Fail-safe
P164D:00	4WD operates by the specified data.
P182F:00	4WD protection condition (4WD control paused)
P187B:00	Control disabled.

DTC	Fail-safe
P1886:00	Control disabled.
P188A:00	4WD protection condition (4WD control paused)
U2100:00	4WD operates by the specified data.