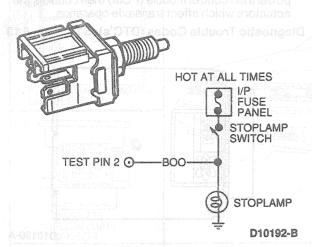
DESCRIPTION AND OPERATION (Continued)

 Brake On/Off (BOO) Switch 13480: Tells the PCM when the brakes are applied. The switch is closed when the brakes are applied and open when they are released.



Transmission Function:

Disengage torque converter clutch when brake is applied.

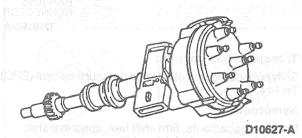
Symptoms:

Failed "ON"—torque converter clutch will not engage at less than one-third throttle.

Failed "OFF" or not connected—torque converter clutch will not disengage when brake is applied.

DTC: 536

 Profile Ignition Pulse (PIP): Tells the powertrain control module (PCM) the engine rpm and the crankshaft position. On gasoline engines, the Profile Ignition Pulse (PIP) signal is produced by a Hall-effect device in the distributor.



Transmission Function:

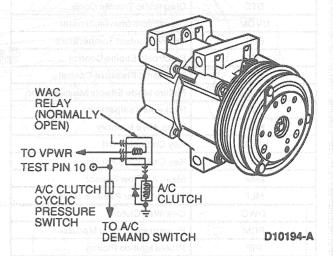
Uses rpm signal in the transmission strategy for torque converter clutch control.

Symptoms:

Engine malfunction, no torque converter clutch engagement.

DTC's: 211, 212, 213

Air Conditioning Clutch (ACC) 2884: The
electro-magnetic clutch is energized when the
clutch cycling pressure switch closes. The switch is
located on the suction accumulator / drier. The
closing of the switch completes the circuit to the
clutch and draws it into engagement with the
compressor driveshaft.



Transmission Function:

Adjust EPC pressure when A/C compressor clutch is engaged to compensate for additional load on the engine.

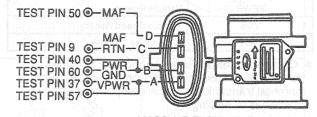
Symptoms:

Failed "ON"—EPC pressure slightly low with A/C OFF.

Failed "OFF"—EPC pressure slightly high with A/C ON.

DTC: 539

Mass Air Flow Sensor (MAF) 12B579: Directly
measures the mass of the air flowing into the
engine. The sensor output is a DC (analog) signal
ranging from about 0.5 volt to 5.0 volts used by the
PCM to calculate the injector pulse width for
stoichiometry.



MASS AIR FLOW (MAF) SENSOR VEHICLE HARNESS CONNECTOR

D10195-A

Transmission Function:

EPC pressure control, shift and torque converter clutch scheduling.