

The PCM receives information from a variety of sensor and switch inputs. Based on the strategy and calibration stored within the PCM, the PCM generates the appropriate output. The system is designed to minimize emissions and optimize fuel economy and driveability. The software strategy controls the basic operation of the engine, provides the OBD strategy, controls the MIL, communicates to the scan tool over the DLC, allows for flash EEPROM, provides idle air and fuel trim, and controls failure mode effects management (FMEM).

DESCRIPTION AND OPERATION > ELECTRONIC ENGINE CONTROLS - SYSTEM OPERATION AND COMPONENT DESCRIPTION > SYSTEM OPERATION

Refer to the ENGINE CONTROLS - DESCRIPTION & OPERATION (EXCEPT DIESEL & HYBRID) .

DIAGNOSIS AND TESTING > ELECTRONIC ENGINE CONTROLS > DTC CHART: POWERTRAIN CONTROL MODULE (PCM)

Diagnostics in this service information assume a certain skill level and knowledge of Ford-specific diagnostic practices. REFER to: Diagnostic Methods .

Powertrain Control Module (PCM) DTC Chart

DTC	Description	Action
P0128	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	REFER to: ENGINE COOLING - 3.7L Duratec (227kW/301PS).
P0217	Engine Coolant Overtemperature Condition	REFER to: ENGINE COOLING - 3.7L Duratec (227kW/301PS).
P0218	Transmission Fluid Temperature Sensor "A" Over Temperature Condition	REFER to: Diagnostic Trouble Code (DTC) Charts and Pinpoint Tests - 3.7L Duratec (227kW/301PS) .
P0461	Fuel Level Sensor A Circuit Range/Performance	First, Refer to ENGINE CONTROLS - INTRODUCTION (EXCEPT DIESEL & HYBRID) . If sent here from the ENGINE CONTROLS - INTRODUCTION (EXCEPT DIESEL & HYBRID) , REFER to: Instrumentation, Message Center and Warning Chimes .
P0462	Fuel Level Sensor A Circuit Low	First, Refer to ENGINE CONTROLS - INTRODUCTION (EXCEPT DIESEL & HYBRID) . If sent here from the ENGINE CONTROLS - INTRODUCTION (EXCEPT DIESEL & HYBRID) , REFER to: Instrumentation, Message Center and Warning Chimes .