

- Thermostat housing
- Coolant pump
- Coolant flow restriction

Diagnostic Trouble Code (DTC) Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
P0217	Engine Coolant Overtemperature Condition	Sets in the PCM when an engine overheat condition was sensed by the CHT sensor or the ECT sensor.
P1299	Cylinder Head Overtemperature Protection Active	Sets in the PCM when an engine overheat condition was sensed by the CHT sensor or the ECT sensor. A failure mode effects strategy called fail-safe cooling was activated to cool the engine.

DIAGNOSIS AND TESTING > ENGINE COOLING > PINPOINT TESTS > PINPOINT TEST B : PINPOINT TEST > PINPOINT TEST B : PINPOINT TEST

B1 CARRY OUT INSPECTION AND VERIFICATION

Carry out the Inspection and Verification .

Are any concerns present?

Yes	REPAIR as needed.
No	GO to B2

B2 CHECK FOR PCM (POWERTRAIN CONTROL MODULE) DTCS

Ignition ON.

Using a scan tool, perform PCM self-test.

Is DTC P0217 and/or P1299 present?

Yes	GO to B4
No	Actual engine overheating has not been verified. CHECK the engine coolant temperature gauge operation. REFER to: Instrumentation, Message Center and Warning Chimes . If any other PCM DTCs are retrieved, REFER to: ELECTRONIC ENGINE CONTROLS - 2.3L ECOBOOST (231KW/314PS).