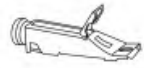


Diagnosis and Testing

Engine Cooling

Special Tool(s)

 E144764	3-Way HD Antifreeze Coolant Test Kit 328-2050-62291 or equivalent
 E144765	Coolant/Battery Refractometer ROB75240 or equivalent
 E144766	Radiator Tester 014-R1072 or equivalent
 E145674	UView® Combustion Leak Tester UVU560000-R

DTC Chart

WARNING: Before beginning any service procedure in this section, refer to Safety Warnings in section 100-00 General Information. Failure to follow this instruction may result in serious personal injury.

NOTICE: Use the correct coolant. Do not mix coolant types. Mixing coolant types may degrade the coolant corrosion protection and may damage the engine or cooling system. For the correct coolant specified for this vehicle, refer to Specifications.

REFER to: Engine Cooling System Health and Safety Precautions (100-00 General Information, Description and Operation).

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: Diagnostic Methods (100-00 General Information, Description and Operation).

Powertrain Control Module DTC Chart

DTC	Description	Action
P0125	Insufficient Coolant Temp For Closed Loop Fuel Control	GO to Pinpoint Test C
P0128	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	GO to Pinpoint Test C
P0217	Engine Coolant Overtemperature Condition	GO to Pinpoint Test B
P0480	Fan 1 Control Circuit	Refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P0481	Fan 2 Control Circuit	Refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P1285	Cylinder Head Overtemperature Condition	Refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P1299	Cylinder Head Overtemperature Protection Active	GO to Pinpoint Test B