

DTC	P0128	COOLANT THERMOSTAT (COOLANT TEMPERATURE BELOW THERMOSTAT REGULATING TEMPERATURE)
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CIRCUIT DESCRIPTION

If the engine coolant temperature does not reach 75°C (167°F) even after warming up, it is abnormal.

HINT:

This is the purpose of the "thermostat".

DTC No.	DTC Detection Condition	Trouble Area
P0128	Condition (a), (b) and (c): (a) Cold start (b) After engine is warmed up (c) Engine coolant temp. < 75°C (167°F)	<ul style="list-style-type: none"> • Thermostat (water inlet) • Cooling system • Engine coolant temperature sensor • ECM

INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand-held tester or the OBD II scan tool, as freeze frame data records the engine conditions when a malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

1	INSPECT WATER INLET(THERMOSTAT) (See page 16-3)
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REPLACE WATER INLET (THERMOSTAT)
(See page 16-10)

OK

2	CHECK OTHER DTC OUTPUT(BESIDES DTC P0128)
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(a) Read the DTC using the hand-held tester or the OBD II scan tool.

Result:

Display (DTC output)	Proceed to
Only P0128 is output	A
P0128 and other DTCs are output	B

HINT:

If any other codes besides P0128 is output, perform the troubleshoot on that DTC before.

B

GO TO RELEVANT DTC CHART
(See page 05-17)

A

CHECK AND REPLACE ECM (See page 01-35)
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