

DTC	P0128	Thermostat Malfunction
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CIRCUIT DESCRIPTION

This DTC is set when Engine Coolant Temperature (ETC) does not reach 75°C (167°F) despite sufficient engine warm-up time.

DTC No.	DTC Detecting Condition	Trouble Area
P0128	Condition (a), (b) or (c): (a) After starting engine at 20°C (68°F) (b) After engine is warmed up (c) THW < 75°C (167°F)	• Thermostat • Cooling system • Engine coolant temp. sensor • ECM

INSPECTION PROCEDURE

HINT:

Read freeze frame data using TOYOTA hand-held tester or OBD II scan tool. Because freeze frame records the engine conditions when the 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	Check thermostat (See page CO-12).
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NG	Replace thermostat.
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YES

2	Are there any other codes (besides DTC P0128) being output?
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YES	Go to relevant DTC chart (See page DI-15).
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Check and replace ECM (See page IN-34).
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