

DTC	P0128	Thermostat Malfunction
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CIRCUIT DESCRIPTION

If the water temperature doesn't get to 75°C (167°F) even after warming up, it is abnormal.

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 • 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-11)
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Replace thermostat.

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-13](#))

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Check and replace ECM. (See page [IN-28](#))