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| 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 procedure 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 • 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.

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| 1 | INSPECT THERMOSTAT (See page 16-3) |
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NG

REPLACE THERMOSTAT (See page 16-9)

OK

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| 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 05-18)**

A

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| CHECK AND REPLACE ECM (See page 01-35) |
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