

DTC	P0116/22	Water Temp. Circuit Range/Performance Problem
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CIRCUIT DESCRIPTION

Refer to DTC P0115/22 of Pub. No. RM588E on page DI-37.

DTC No.	DTC Detecting Condition	Trouble Area
P0116	<p>When the fluctuations in the engine coolant temperature are within 3 °C (37 °F) before and after the following conditions are met:</p> <p>19.IDL OFF time \geq 250 sec.</p> <p>20.Vehicle speed change of 28 km/h (17 mph) or more occurs 10 times or more.</p> <p>21.-40 °C (-40 °F) \leq Engine coolant temperature when the ignition switch is turned ON < 60 °C (140 °F)</p> <p>22.Intake air temperature after starting the engine \geq -6.7 °C (20 °F)</p>	<ul style="list-style-type: none"> • Water temp. sensor • Cooling system

INSPECTION PROCEDURE

HINT:

- If DTC P0115/22 and P0116/22 are output simultaneously, engine coolant temp. sensor circuit may be open. Perform troubleshooting of DTC P0115 first.
- Read freeze frame data using hand-held tester. 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	Are there any other codes (besides DTC P0116/22) being output?
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YES

Go to relevant DTC chart.

NO

2	Check thermostat (See Pub. No. RM588E on page CO-10).
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Replace thermostat.

OK

Replace water temp. sensor.