DTC

ENGINE COOLANT TEMP. CIRCUIT RANGE/PERFORMANCE PROBLEM

CIRCUIT DESCRIPTION

Refer to DTC P0115 on page 05-34.

P0116

DTC No.	DTC Detecting Condition	Trouble Area
P0116	When engine starts, water temp. is $-7^{\circ}C (20^{\circ}F)$ or less. And, 20 min. or more after engine starts, engine coolant temp. sen- sor value is 20°C (68°F) or less (2 trip detection logic)	 Cooling system Engine coolant temp. sensor Thermostat
	When the engine starts, water temp. is between $-7^{\circ}C$ (20°F) and 10°C (50°F). And, 5 min. or more after the engine starts, the engine coolant temp. sensor value is 20°C (68°F) or less (2 trip detection logic)	

INSPECTION PROCEDURE

HINT:

- If DTCs P0110, P0115, P0116, P0120 and P0121 are output simultaneously, engine coolant temperature sensor circuit may be open. Perform the troubleshooting of DTC P0115 first.
- Read freeze frame data using the hand-held tester or OBD scan tool, as freeze frame data 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 READ OUTPUT DTC(BESIDES P0116)

Result:

