DTC		Engine Coolant Temperature Circuit Range/ Performance Problem
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DTC		Insufficient Coolant Temperature for Closed Loop Fuel Control
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CIRCUIT DESCRIPTION

Refer to DTC P0115 on page DI-38.

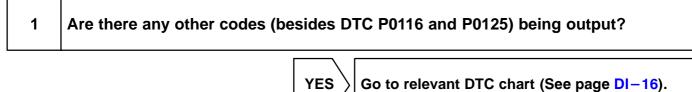
DTC No.	DTC Detection Condition	Trouble Area	
P0116	 When THW 2 35°C (95°F) and 60°C (140°F), THA ≥ -6.7°C (19.4°F) when starting engine, conditions (a) and (b) continue (2 trip detection logic) (a) Vehicle speed is changing (Not stable) (b) Water temp. change is lower than 3°C (5.4°F) from water temp. since when starting engine 		
	In case that reading value of water temp. sensor will not change more than $1^{\circ}C$ ($1.8^{\circ}F$) even after repeating 6 trips (detection logic) of adjusting speed pattern with THW more than $60^{\circ}C$ ($140^{\circ}F$) when starting engine	• Cooling system • Engine coolant temp. sensor	
P0125	If THW < -6.7° C (19.4°F) or THA < -6.7° C (19.4°F) 20 min. or more after starting engine, engine coolant temp. sensor value is 15°C (59°F) or less (2 trip detection logic)		
	If THW $\bigcup -6.7^{\circ}C$ (19.4°F) and THA $\ge -6.7^{\circ}C$ (19.4°F) and 10°C (50°F) at engine start, 5 min. or more after starting en- gine, engine coolant temp. sensor value is 30°C (86°F) or less (2 trip detection logic)		
	If THW $\geq 10^{\circ}$ C (50°F) and THA $\geq 10^{\circ}$ C (50°F) at engine start, 2 min. or more after starting engine, engine coolant temp. sensor value is 20°C (68°F) or less (2 trip detection logic)		

INSPECTION PROCEDURE

HINT:

NO

- If DTCs P0115 and P0116 are output simultaneously, engine coolant temp. sensor circuit may be open. Perform troubleshooting of DTC P0115 first.
- 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.



2003 TOYOTA TACOMA (RM1002U)

2	Check thermostat (See page CO–11).	
	NG Replace thermostat (See page CO–9).	
ОК		
Replace engine coolant temperature sensor.		