DI9K6-05

DTC	P0128	Coolant Thermostat (Coolant Temperature	
		Below Thermostat Regulating Temperature)	

## CIRCUIT DESCRIPTION

HINT:

This is the throubleshooting procedure of thermostat.

If the engine coolant temperature does not reach 75°C (167°F)even after warming up, it is abnormal.

DTC No.	DTC Detection Condition	Trouble Area
P0128	Conditions (a), (b) and (c):	•Thermostat
	(a) Cold start	Cooling system
	(b) After engine is warmed up	Engine coolant temp. sensor
	(c) Engine coolant temp. < 75°C (167°F)	• 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.

1 Check thermostat (See page CO-11).

NG Replace thermostat (See page CO-9).

OK

2 Are there any other codes (besides DTC P0128) being output?

YES Go to relevant DTC chart (See page DI-16).

NO

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