DI2SE-04

DTC	P1125/89*	Throttle Control Motor Circuit Malfunction
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*: ETCS trouble code No. is 21.

CIRCUIT DESCRIPTION

Throttle motor is operated by the engine ECU and it opens and closes the throttle valve.

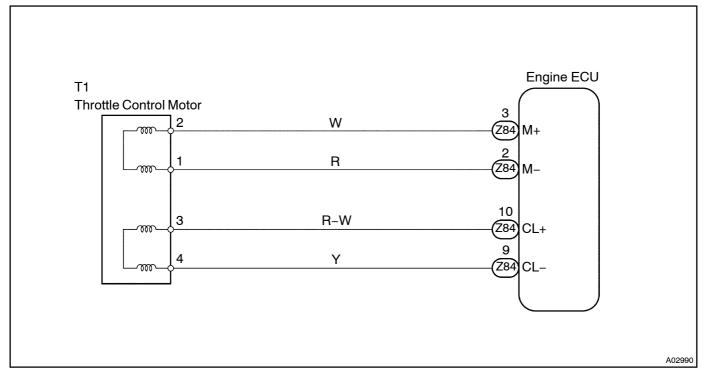
The opening angle of the throttle valve is detected by the throttle position sensor which is mounted on the throttle body and it provides feedback to the engine ECU to control the throttle motor in order to the throttle valve opening angle properly in response to driving condition.

If this DTC is stored, the engine ECU shuts down the power for the throttle motor and the magnetic clutch, and the throttle valve is fully closed by the return spring.

However, the opening angle of the throttle valve can be controlled by the accelerator pedal through the throttle cable.

DTC No.	DTC Detecting Condition	Trouble Area	
P1125/89*	Condition (a) and (b) continues for 0.5 seconds: (a) Throttle control motor output duty ≧ 80 % (b) Throttle control motor current < 0.5 A	Open or short in throttle control motor circuit	
	Throttle control motor current \geq 16 A	Throttle control motor Engine ECU	
	Under condition continue for 0.6 seconds: Throttle control motor current \geq 7 A		

WIRING DIAGRAM



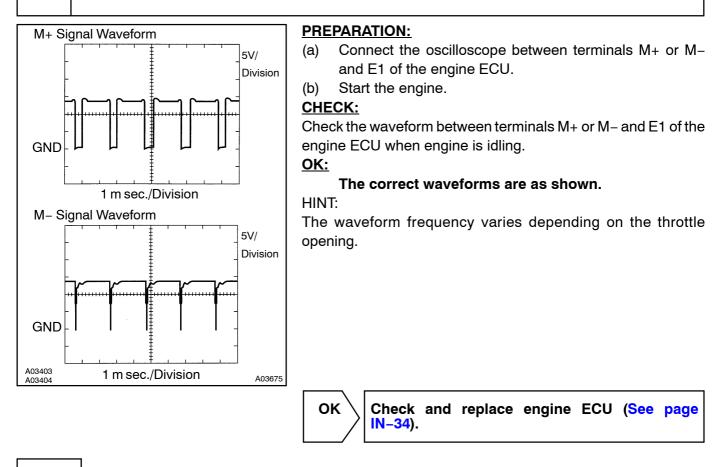
INSPECTION PROCEDURE

HINT:

1

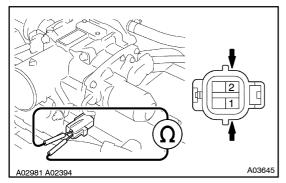
Read freeze frame data using hand-held tester. Because freeze frame records the engine conditions when the malfunction is detected, when troubleshooting it is useful for determining whether the vehicle was running or stopped, the engine warmed up or not, the air-fuel ratio lean or rich, etc. at the time of the malfunction.

Check throttle control motor circuit.



NG





PREPARATION:

Disconnect the throttle control motor and magnetic clutch connector.

CHECK:

Measure resistance between terminals 1 and 2 of the throttle control motor and magnetic clutch.

<u>OK:</u>

Resistance: 0.3 ~ 100 Ω at 20°C (68°F)



Replace throttle control motor (See page FI-37).

ОК

3	Check for open and short in harness and connector between throttle control mo- tor and engine ECU (See page IN–34).		
	NG Repair or replace.		
ОК			
Cheo IN-3	ck and replace engine ECU (<mark>See page</mark> 4).		