

DTC	P0505/33	Idle Control System Malfunction
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CIRCUIT DESCRIPTION

The idle speed is controlled by the Electric Throttle Control System (ETCS).

ETCS is composed of the throttle motor to operate the throttle valve, the magnetic clutch to connect the throttle motor with the throttle valve, the throttle position sensor to detect the opening angle of the throttle valve, the accelerator pedal position sensor to detect the accelerator pedal position, the engine ECU to control the ETCS and the one valve type throttle body.

The engine ECU controls the throttle motor to make the throttle valve opening angle properly for the target idle speed.

DTC No.	DTC Detecting Condition	Trouble Area
P0505/33	Idle speed continues to vary greatly from target speed (2 trip detection logic)	<ul style="list-style-type: none"> • Air induction system • Electric throttle control system

INSPECTION PROCEDURE

HINT:

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 was ratio lean or rich, etc. at the time of the malfunction.

1	Are there any other codes (besides P0505/33) being output?
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YES

Go to relevant DTC chart ([See page DI-18](#)).

NO

2	Check air induction system (See Pub. No. RM630E on page FI –1).
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Repair or replace.

OK

Check electric throttle control system (See Pub. No. RM630E on page FI –40).