

Idle Speed Control System

Co005-01

ISC (Idle Speed Control) System Monitor Description

MONITOR SUMMARY

Engine that use an ISC valve:

The idle speeds are determined depending on the volume of air that passes through the ISC valve. When the volume is large, the idle speed is higher. When the volume is small, the idle speed is lower. The ISC valve controls the volume of air that bypasses the throttle valve. The engine control module (ECM) sends duty signals to the ISC valve and drives the ISC valve stepper motor to determine the volume of air that bypasses the throttle valve.

If the actual idle speed does not reach the target speed, the ECM interprets this as a malfunction of the ISC valve and sets a DTC.

If the rate of duty signal input to the ISC valve is 0 or 100 %, the ECM interprets this as an open/short circuit in the ISC valve and sets a DTC.

Engine that do not use an ISC valve:

The idle speeds are determined by the volume of air that passes through the throttle valve. When the volume is large, the idle speed is higher. When the volume is small, the idle speed is lower. The electrical throttle control system (ETCS) controls the opening angle of the throttle valve and the volume of air that passes through the throttle valve is determined by the throttle opening angle.

If the actual idle speed does not reach the target speed, the ECM interprets this as a malfunction of the ISC function and sets a DTC.

RELATED DTC

Previous code:

Related DTCs	P0505	- ISC system malfunction - ISC valve circuit is open/shorted
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Extended code:

Related DTCs	P0505	ISC system malfunction
	P0511	ISC valve circuit is open/shorted

MODEL YEAR CHART

Model Year	See Page
1996 to 2004	Co-3