

DTC	P0604	Internal Control Module Random Access Memory (RAM) Error
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DESCRIPTION

The ECM continuously monitors its internal memory status. This self-check ensures that the ECM is functioning properly. It is diagnosed by internal "mirroring" of the main CPU and sub CPU to detect the Random Access Memory (RAM) errors. If outputs from these CPUs are different and deviate from the standards, the ECM will illuminate the MIL and set a DTC immediately.

DTC	DTC Setting Condition	Trouble Area
P0604	ECM RAM errors	ECM

MONITOR STRATEGY

Related DTC	P0604: ECM RAM error
Required sensors/Components	ECM
Frequency of Operation	Continuous
Duration	2 seconds
MIL Operation	Immediate
Sequence of Operation	None

TYPICAL ENABLING CONDITIONS

Monitor runs whenever the following DTCs are not present	None
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TYPICAL MALFUNCTION THRESHOLDS

Difference between main and sub CPU output	Larger than the specified range
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INSPECTION PROCEDURE

1	CHECK OTHER DTC OUTPUT (IN ADDITION TO DTC P0604)
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- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position.
- (c) Turn the tester on.
- (d) Clear the DTC (See page [ES-30](#)).
- (e) Turn the ignition switch off.
- (f) Disconnect the battery negative terminal and wait for 1 minute.
- (g) Connect the battery negative terminal.
- (h) Turn the ignition switch to the ON position.
- (i) Enter the following menus: DIAGNOSIS / ENHANCED II / DTC INFO / CURRENT CODES.
- (j) Read the DTCs.

Result

Display (DTC output)	Proceed to
P0604	A
No output DTC	B

