

## DIAGNOSTIC TROUBLE CODE CHART

### HINT:

Parameters listed in the chart may not be exactly the same as your readings due to the type of instrument or other factors.

If a malfunction code is displayed during the DTC check in the check (test) mode, check the circuit for the codes listed in the table below. For details of each code, turn to the page referred to under the "See page" for the respective "DTC No." in the DTC chart.

DTC No. (See Page)	Detection Item	Trouble Area	*1 CHE ENG	Memory
12 (05-173)	ENGINE SPEED SENSOR CIRCUIT MALFUNCTION (TDC OR G1 CIRCUIT)	<ul style="list-style-type: none"> <li>• Open or short in camshaft position sensor circuit</li> <li>• Camshaft position sensor</li> <li>• Camshaft timing pulley</li> <li>• ECM</li> </ul>	○	○
13 (05-176)	ENGINE SPEED SENSOR CIRCUIT MALFUNCTION (NE CIRCUIT)	<ul style="list-style-type: none"> <li>• Open or short in crankshaft position sensor circuit</li> <li>• Crankshaft Position sensor</li> <li>• Crankshaft timing pulley</li> <li>• ECM</li> </ul>	○	○
15 (05-178)	THROTTLE CONTROL MOTOR CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short throttle control motor circuit</li> <li>• Throttle control motor</li> <li>• Throttle valve</li> <li>• ECM</li> </ul>	○	○
17 (05-181)	IC CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• ECM</li> </ul>	○	○
19 (1) (05-182)	ACCELERATOR PEDAL POSITION SENSOR CIRCUIT MALFUNCTION (OPEN/SHORT)	<ul style="list-style-type: none"> <li>• Open or short in accelerator pedal position sensor circuit</li> <li>• Accelerator pedal position sensor</li> <li>• ECM</li> </ul>	○	○
19 (2) (05-189)	ACCELERATOR PEDAL POSITION SENSOR CIRCUIT MALFUNCTION (IDL SWITCH/RANGE)	<ul style="list-style-type: none"> <li>• Open or short in accelerator pedal position sensor circuit</li> <li>• Accelerator pedal position sensor</li> <li>• ECM</li> </ul>	○	○
22 (05-192)	WATER TEMP. SENSOR CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in water temp. sensor circuit</li> <li>• Water temp. sensor</li> <li>• ECM</li> </ul>	○	○
24 (1) (05-197)	INTAKE AIR TEMP. SENSOR CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in intake air temp. sensor circuit</li> <li>• Intake air temp. sensor</li> <li>• ECM</li> </ul>	-	○
24 (2) (05-202)	ATMOSPHERIC TEMP. SENSOR CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in atmospheric temp. sensor circuit</li> <li>• Atmospheric air temp. sensor (built into air flow meter)</li> <li>• ECM</li> </ul>	-	○
31 (05-206)	AIR FLOW CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in air flow meter circuit</li> <li>• Air flow meter</li> <li>• ECM</li> </ul>	○	○
32 (05-212)	INJECTOR CORRECTION RESISTANCE MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in injector correction resistance circuit</li> <li>• Injector correction resistance</li> <li>• ECM</li> </ul>	-	○
34 (2) (05-213)	TURBOCHARGER SYSTEM MALFUNCTION	<ul style="list-style-type: none"> <li>• Turbocharger</li> <li>• EGR valve</li> <li>• Air flow meter</li> <li>• ECM</li> </ul>	○	○
34 (3) (05-213)	TURBOCHARGER STICK DETECTED (CLOSE)	<ul style="list-style-type: none"> <li>• Turbocharger</li> <li>• EGR valve</li> <li>• Air flow meter</li> <li>• ECM</li> </ul>	○	○
34 (4) (05-213)	TURBOCHARGER STICK DETECTED (OPEN)	<ul style="list-style-type: none"> <li>• Turbocharger</li> <li>• EGR valve</li> <li>• Air flow meter</li> <li>• ECM</li> </ul>	○	○

35 (05-221)	TURBO PRESSURE CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in turbo pressure sensor circuit</li> <li>• Turbo pressure sensor</li> <li>• Open or short in VSV turbo pressure sensor circuit</li> <li>• VSV for turbo pressure sensor</li> <li>• Vacuum hose disconnected or blocked</li> <li>• ECM</li> </ul>	○	○
39 (05-230)	FUEL TEMP. SENSOR CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in fuel temp. sensor circuit</li> <li>• Fuel pressure sensor</li> <li>• ECM</li> </ul>	○	○
42 (05-235)	VEHICLE SPEED SENSOR SIGNAL CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in vehicle speed sensor circuit</li> <li>• Vehicle speed sensor</li> <li>• Combination meter</li> <li>• ECM</li> </ul>	○	○
49 (05-238)	PRESSURE SENSOR CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in fuel pressure sensor circuit for common rail</li> <li>• Fuel pressure sensor for common rail</li> <li>• ECM</li> </ul>	○	○
51 (05-240)	Stop Light Switch Signal Circuit	<ul style="list-style-type: none"> <li>• Open or short in stop light switch signal circuit</li> <li>• Stop light switch</li> <li>• ECM</li> </ul>	–	○
71 (05-243)	EGR STEP MOTOR CIRCUIT MALFUNCTION (OPEN)	<ul style="list-style-type: none"> <li>• Step motor</li> <li>• Wire harness</li> <li>• ECM</li> </ul>	○	○
78 (1) (05-246)	FUEL PUMP CIRCUIT MALFUNCTION (FUEL LEAKAGE)	<ul style="list-style-type: none"> <li>• Open or short in EDU circuit</li> <li>• EDU</li> <li>• Open or short in injector circuit</li> <li>• Injector</li> <li>• Open or short in common rail pressure sensor circuit</li> <li>• Common rail pressure sensor</li> <li>• Fuel line between supply pump and common rail</li> <li>• Fuel line between common rail and injector</li> <li>• Pressure Limiter</li> <li>• ECM</li> </ul>	○	○
78 (2) (05-251)	FUEL PUMP CIRCUIT MALFUNCTION (OPEN CIRCUIT)	<ul style="list-style-type: none"> <li>• Open or short in SCV circuit</li> <li>• SCV</li> <li>• Supply pump</li> <li>• ECM</li> </ul>	○	○
78 (3) (05-251)	FUEL PUMP CIRCUIT MALFUNCTION (OVER FORCE FEED)	<ul style="list-style-type: none"> <li>• Open or short in SCV circuit</li> <li>• SCV</li> <li>• Supply pump</li> <li>• ECM</li> </ul>	○	○
89 (05-256)	ECU MALFUNCTION (ECU CIRCUIT)	<ul style="list-style-type: none"> <li>• ECM</li> </ul>	○	○
97 (05-257)	EDU CIRCUIT MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in EDU circuit</li> <li>• EDU</li> <li>• Open or short in SCV circuit</li> <li>• SCV</li> <li>• Injector</li> <li>• ECM</li> </ul>	○	○
99 *2	ENGINE IMMOBILIZER SYSTEM MALFUNCTION	<ul style="list-style-type: none"> <li>• Open or short in engine immobilizer system circuit</li> <li>• Trasponder key amplifier</li> <li>• Trasponder key computer</li> <li>• Trasponder key coil</li> <li>• ECM</li> </ul>	–	○

\*1: – Check engine warning light does not light up.

○ Check engine warning light lights up.

\*2: See [Page 05-699](#) Engine Immobilizer Section