

## Diagnostic Trouble Code (DTC) Descriptions

4-Digit	Description	Pinpoint Test Step GO to Direction		
		KOEO	KOER	Continuous
P0046	Turbo/Super Charger Boost Control Solenoid Circuit Range/Performance	GO to Pinpoint Test AK.		
P0069	MAP/BARO Correlation	GO to Pinpoint Test AU.		
P0096	Intake Air Temperature Sensor 2 Circuit Range/Performance	GO to <b>G2</b> .		
P0097	Intake Air Temperature Sensor 2 Circuit Low Input	GO to <b>G6</b> .		
P0098	Intake Air Temperature Sensor 2 Circuit High Input	GO to <b>G8</b> .		
P0101	Mass or Volume Air Flow Circuit Range/Performance	GO to <b>J2</b> .		
P0103	Mass or Volume Air Flow Circuit High Input	GO to <b>J8</b> .		
P0107	Manifold Absolute Pressure/BARO Sensor Low Input	GO to <b>H2</b> .		
P0108	Manifold Absolute Pressure/BARO Sensor High Input	GO to <b>H6</b> .		
P0112	Intake Air Temperature Circuit Low Input	GO to <b>F2</b> .		
P0113	Intake Air Temperature Circuit High Input	GO to <b>F4</b> .		
P0117	Engine Coolant Temperature Circuit Low Input	GO to <b>K2</b> .		
P0118	Engine Coolant Temperature High Input	GO to <b>K4</b> .		
P0148	Fueling Error	GO to Pinpoint Test AT.		
P0196	Engine Oil Temperature Sensor Circuit Range/Performance	GO to <b>L2</b> .		
P0197	Engine Oil Temperature Sensor Circuit Low Input	GO to <b>L7</b> .		
P0198	Engine Oil Temperature Sensor Circuit High Input	GO to <b>L9</b> .		
P0219	Engine Overspeed Condition	a		
P0230	Fuel Pump Primary Circuit	GO to <b>M2</b> .		
P0231	Fuel Pump Secondary Circuit Low	GO to <b>M6</b> .		
P0232	Fuel Pump Secondary Circuit High	GO to <b>M10</b> .		
P0236	Turbo/Super Charger Boost Sensor A Circuit Range/Performance	GO to <b>E2</b> .		
P0237	Turbo/Super Charger Boost Sensor A Circuit Low	GO to <b>E6</b> .		
P0238	Turbo/Super Charger Boost Sensor A Circuit High	GO to <b>E10</b> .		
P0261	Cylinder #1 Injector Circuit Low	GO to <b>P1</b> .		
P0262	Cylinder #1 Injector Circuit High	GO to <b>P1</b> .		
P0263	Cylinder #1 Contribution/Balance	GO to <b>P1</b> .		
P0264	Cylinder #2 Injector Circuit Low	GO to <b>P1</b> .		
P0265	Cylinder #2 Injector Circuit High	GO to <b>P1</b> .		

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		KOEO	KOER	Continuous
P0266	Cylinder #2 Contribution/Balance		GO to <b>P1</b> .	
P0267	Cylinder #3 Injector Circuit Low		GO to <b>P1</b> .	
P0268	Cylinder #3 Injector Circuit High		GO to <b>P1</b> .	
P0269	Cylinder #3 Contribution/Balance		GO to <b>P1</b> .	
P0270	Cylinder #4 Injector Circuit Low		GO to <b>P1</b> .	
P0271	Cylinder #4 Injector Circuit High		GO to <b>P1</b> .	
P0272	Cylinder #4 Contribution/Balance		GO to <b>P1</b> .	
P0273	Cylinder #5 Injector Circuit Low		GO to <b>P1</b> .	
P0274	Cylinder #5 Injector Circuit High		GO to <b>P1</b> .	
P0275	Cylinder #5 Contribution/Balance		GO to <b>P1</b> .	
P0276	Cylinder #6 Injector Circuit Low		GO to <b>P1</b> .	
P0277	Cylinder #6 Injector Circuit High		GO to <b>P1</b> .	
P0278	Cylinder #6 Contribution/Balance		GO to <b>P1</b> .	
P0279	Cylinder #7 Injector Circuit Low		GO to <b>P1</b> .	
P0280	Cylinder #7 Injector Circuit High		GO to <b>P1</b> .	
P0281	Cylinder #7 Contribution/Balance		GO to <b>P1</b> .	
P0282	Cylinder #8 Injector Circuit Low		GO to <b>P1</b> .	
P0283	Cylinder #8 Injector Circuit High		GO to <b>P1</b> .	
P0284	Cylinder #8 Contribution/Balance		GO to <b>P1</b> .	
P0297	Vehicle Overspeed Condition		a	
P0298	Engine Oil Overtemperature Condition		GO to <b>L19</b> .	
P0299	Turbo/SuperCharger Under Boost		GO to Pinpoint Test KA.	
P0300	Random Misfire Detected		GO to Pinpoint Test AR.	
P0301	Cylinder #1 Misfire Detected		GO to <b>P7</b> .	
P0302	Cylinder #2 Misfire Detected		GO to <b>P7</b> .	
P0303	Cylinder #3 Misfire Detected		GO to <b>P7</b> .	
P0304	Cylinder #4 Misfire Detected		GO to <b>P7</b> .	
P0305	Cylinder #5 Misfire Detected		GO to <b>P7</b> .	
P0306	Cylinder #6 Misfire Detected		GO to <b>P7</b> .	
P0307	Cylinder #7 Misfire Detected		GO to <b>P7</b> .	
P0308	Cylinder #8 Misfire Detected		GO to <b>P7</b> .	
P0335	Crankshaft Position Sensor A Circuit		GO to Pinpoint Test D.	
P0336	Crankshaft Position Sensor A Circuit Range/Performance		GO to Pinpoint Test D.	
P0340	Camshaft Position Sensor A Circuit (Bank 1 or single sensor)		GO to Pinpoint Test V.	
P0341	Camshaft Position Sensor A Circuit Range/Performance (Bank 1 or single sensor)		GO to Pinpoint Test V.	
P0381	Glow Plug/Heater Indicator Circuit		d	

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## Diagnostic Trouble Code (DTC) Descriptions

4-Digit	Description	Pinpoint Test Step GO to Direction		
		KOEO	KOER	Continuous
P0401	Exhaust Gas Recirculation Flow Insufficient Detected	GO to <b>W2</b> .		
P0402	Exhaust Gas Recirculation Flow Excessive Detected	GO to <b>W2</b> .		
P0403	Exhaust Gas Recirculation Control Circuit	GO to <b>W4</b> .		
P0404	Exhaust Gas Recirculation Control Circuit Range/Performance	GO to <b>W9</b> .		
P0405	Exhaust Gas Recirculation Sensor A Circuit Low	GO to <b>W10</b> .		
P0406	Exhaust Gas Recirculation Sensor A Circuit High	GO to <b>W14</b> .		
P0407	Exhaust Gas Recirculation Sensor B Circuit Low	GO to Pinpoint Test AX.		
P0408	Exhaust Gas Recirculation Sensor B Circuit High	GO to Pinpoint Test AX.		
P0460	Fuel Level Sensor Circuit	d		
P0461	Fuel Level Sensor Circuit Range/Performance	d		
P0470	Exhaust Pressure Sensor	GO to <b>X2</b> .		
P0471	Exhaust Pressure Sensor Range/Performance	GO to <b>X6</b> .		
P0472	Exhaust Pressure Sensor Low Input	GO to <b>X10</b> .		
P0473	Exhaust Pressure Sensor High Input	GO to <b>X15</b> .		
P0478	Exhaust Pressure Control Valve High Input	GO to Pinpoint Test KA.		
P0480	Fan 1 Control Circuit	GO to Pinpoint Test AH.		
P0487	EGR Throttle Position Control Circuit	GO to Pinpoint Test AX.		
P0488	EGR Throttle Position Range/Performance	GO to Pinpoint Test AX.		
P0500	Vehicle Speed Sensor A	e		
P0528	Fan Speed Sensor Circuit No Signal	GO to Pinpoint Test AH.		
P0560	System Voltage	GO to Pinpoint Test A.		
P0562	System Voltage Low	GO to Pinpoint Test A.		
P0563	System Voltage High	GO to Pinpoint Test A.		
P0565	Cruise Control ON Signal	GO to Pinpoint Test Y.		
P0566	Cruise Control OFF Signal	GO to Pinpoint Test Y.		
P0567	Cruise Control RESUME Signal	GO to Pinpoint Test Y.		
P0568	Cruise Control SET Signal	GO to Pinpoint Test Y.		
P0569	Cruise Control COAST Signal	GO to Pinpoint Test Y.		
P0571	Brake Switch A Circuit	GO to Pinpoint Test AY.		
P0603	Powertrain Control Module Keep Alive Memory (KAM) Error	GO to Pinpoint Test Z.		
P0605	Powertrain Control Module Read Only Memory (ROM) Error	GO to Pinpoint Test AA.		
P0606	ECM/PCM Processor	b		
P0611	Fuel Injector Control Module Performance	REPLACE FICM.		

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4-Digit	Description	Pinpoint Test Step GO to Direction		
		KOEO	KOER	Continuous
P0620	Generator 1 Control Circuit	g		
P0623	Generator Lamp Control Circuit	g		
P0645	A/C Clutch Relay Control Circuit	GO to Pinpoint Test AV.		
P0649	Cruise Control Lamp Control Circuit	d		
P0670	Glow Plug Module Control Circuit	GO to Pinpoint Test AF.		
P0671	Cylinder 1 Glow Plug Circuit	GO to Pinpoint Test AF.		
P0672	Cylinder 2 Glow Plug Circuit	GO to Pinpoint Test AF.		
P0673	Cylinder 3 Glow Plug Circuit	GO to Pinpoint Test AF.		
P0674	Cylinder 4 Glow Plug Circuit	GO to Pinpoint Test AF.		
P0675	Cylinder 5 Glow Plug Circuit	GO to Pinpoint Test AF.		
P0676	Cylinder 6 Glow Plug Circuit	GO to Pinpoint Test AF.		
P0677	Cylinder 7 Glow Plug Circuit	GO to Pinpoint Test AF.		
P0678	Cylinder 8 Glow Plug Circuit	GO to Pinpoint Test AF.		
P0683	Glow Plug Control Module to PCM Communication Circuit	GO to Pinpoint Test AF.		
P0700	Transmission Control System (MIL Request)	h		
P0703	Brake Switch B Input Circuit	GO to Pinpoint Test AI.		
P0704	Clutch Switch Input Circuit	GO to Pinpoint Test C.		
P1000	OBD Systems Readiness Test Not Complete	GO to Pinpoint Test AC.		
P1001	KOER Not Able To Complete, KOER Aborted	a		
P1102	Mass Air Flow Sensor In Range But Lower Than Expected	GO to Pinpoint Test J.		
P1139	Water in Fuel Indicator Circuit	d		
P1148	Generator 2 Control Circuit	g		
P1149	Generator 2 Control Circuit High	g		
P1184	Engine Oil Temperature Sensor Out Of Self Test Range	GO to <b>L13</b> .		
P1260	Theft Detected, Vehicle Immobilized	j		
P1334	EGR Throttle Position Sensor Minimum Stop Performance	GO to Pinpoint Test AX.		
P1335	EGR Position Sensor Minimum Stop Performance	GO to Pinpoint Test W.		
P1378	FICM Supply Voltage Circuit Low	GO to <b>S2</b> .		
P1379	FICM Supply Voltage Circuit High	GO to <b>S7</b> .		
P1408	Exhaust Gas Recirculation Flow Out Of Self Test Range	c		
P1464	A/C Demand Out Of Self Test Range	GO to Pinpoint Test AM.		
P1501	Vehicle Speed Sensor Out Of Self Test Range	e		
P1502	Invalid Test — Auxiliary Power Control Module Functioning	GO to Pinpoint Test AE.		

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## Diagnostic Trouble Code (DTC) Descriptions

4-Digit	Description	Pinpoint Test Step GO to Direction		
		KOEO	KOER	Continuous
P1531	Invalid Test — Accelerator Pedal Movement	REPEAT the self-test.		
P1536	Parking Brake Switch Circuit	GO to Pinpoint Test I.		
P1635	Tire/Axle Out Of Acceptable Range	c		
P1639	Vehicle ID Block Corrupted, Not Programmed	c		
P1703	Brake Switch Out Of Self Test Range	GO to Pinpoint Test AI.		
P1705	Transmission Range Circuit Not Indicating Park/Neutral During Self Test	GO to Pinpoint Test AL.		
P1725	Insufficient Engine Speed Increase During Self-Test	m		
P1726	Insufficient Engine Speed Decrease During Self-Test	m		
P2122	Throttle/Pedal Position Sensor/Switch D Circuit Low Input	GO to <a href="#">AG2</a> .		
P2123	Throttle/Pedal Position Sensor/Switch D Circuit High Input	GO to <a href="#">AG8</a> .		
P2127	Throttle/Pedal Position Sensor/Switch E Circuit Low Input	GO to <a href="#">AG2</a> .		
P2128	Throttle/Pedal Position Sensor/Switch E Circuit High Input	GO to <a href="#">AG8</a> .		
P2132	Throttle/Pedal Position Sensor/Switch F Circuit Low Input	GO to <a href="#">AG2</a> .		
P2133	Throttle/Pedal Position Sensor/Switch F Circuit High Input	GO to <a href="#">AG8</a> .		
P2138	Throttle/Pedal Position Sensor/Switch D/E Voltage Correlation	GO to <a href="#">AG13</a> .		
P2139	Throttle/Pedal Position Sensor/Switch D/F Voltage Correlation	GO to <a href="#">AG13</a> .		
P2140	Throttle/Pedal Position Sensor/Switch E/F Voltage Correlation	GO to <a href="#">AG13</a> .		
P2199	Intake Air Temperature 1/2 Correlation	GO to Pinpoint Test AW.		
P2262	Turbo/Super Charger Boost Pressure Not Detected — Mechanical	GO to Pinpoint Test KA.		
P2263	Turbo/Super Charger System Performance	GO to Pinpoint Test KA.		
P2269	Water in Fuel Condition	GO to Pinpoint Test O.		
P2284	Injector Control Pressure Sensor Circuit Range/Performance	GO to Pinpoint Test AO.		
P2285	Injector Control Pressure Sensor Circuit Low	GO to <a href="#">Q2</a> .		
P2286	Injector Control Pressure Sensor Circuit High	GO to <a href="#">Q6</a> .		
P2288	Injector Control Pressure Too High	GO to Pinpoint Test AO.		
P2289	Injector Control Pressure Too High — Engine Off	GO to Pinpoint Test AP.		
P2290	Injector Control Pressure Too Low	GO to <a href="#">AO9</a> .		
P2291	Injector Control Pressure Too Low — Engine Cranking	GO to Pinpoint Test AQ.		

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## Diagnostic Trouble Code (DTC) Descriptions

4-Digit	Description	Pinpoint Test Step GO to Direction		
		KOEO	KOER	Continuous
P2552	FICMM Circuit — Throttle/Fuel Inhibit Circuit	GO to Pinpoint Test AT.		
P2614	Camshaft Position Output Circuit	GO to Pinpoint Test V.		
P2617	Crankshaft Position Output Circuit	GO to Pinpoint Test D.		
P2623	Injector Control Pressure Regulator Circuit	GO to Pinpoint Test R.		
U0101	Lost Communication with TCM	REPLACE PCM.		
U0105	Lost Communication with FICM	GO to Pinpoint Test AS.		
U0155	Lost Communication with Instrument Cluster	i		
U0306	Software Incompatibility with Fuel Injector Control Module	i		
B1213	Less than two keys programmed to the system	j		
B1342	ECU damaged (EEPROM in PCM not working, replace PCM)	j		
B1600	PATS Ignition Key Transponder Signal Is Not Received	j		
B1601	PATS Received Incorrect Key-Code From Ignition Key Transponder	j		
B1602	PATS Received Invalid Format Of Key-Code From Ignition Key Transponder	j		
B1681	PATS Transceiver Module Signal Is Not Received	j		
B2103	Antenna Not Connected	j		
B2431	Transponder Programming Failed	j		
P1610	Interactive Reprogramming Code — Replace PCM module	REFLASH the module.		
P1611	Interactive Reprogramming Code — Diagnose Further	REFLASH the module.		
P1615	Interactive Reprogramming Code — Flash Erase Error	REFLASH the module.		
P1616	Interactive Reprogramming Code — Flash Erase Error, Low Voltage	REFLASH the module.		
P1617	Interactive Reprogramming Code — Block Programming Error	REFLASH the module.		
P1618	Interactive Reprogramming Code — Block Programming Error, Low Voltage	REFLASH the module.		
	Malfunction Indicator	f		

- a Rerun Self-Test, refer to Symptom Quick Test for further diagnostic information.
- d Refer to the Workshop Manual Section 413 for diagnostic procedures.
- e Vehicle speed information is provided by the anti-lock brake system. Refer to the Workshop Manual Section 206 for diagnostic procedures.
- b Clear the DTCs. Repeat the self-test. If the DTC is retrieved again, install a new PCM.
- g Refer to the Workshop Manual Section 414 for diagnostic procedures.
- h Refer to the Workshop Manual Section 307 for diagnostic procedures.
- j Refer to the Workshop Manual Section 419 for diagnostic procedures.
- c Refer to Section 2, Flash Electrically Erasable Programmable Read Only Memory — Flash EEPROM
- m If the Glow Plug Monitor Self-Test aborts and this DTC is present, repeat the Glow Plug Monitor Self-Test.
- l Refer to the Workshop Manual Section 418 for diagnostic procedures.