

## 940 Trouble Code Identification

Flash type	Fault location	Probable cause
111	No fault found	-
112	<u>Engine control module (ECM)</u>	<u>ECM</u>
113	Fuel trim (FT) - too weak/rich	Intake leak/blockage, excessive fuel in engine oil, fuel pressure, wiring, MAF sensor, HO2S
<b>1</b>		
113	Fuel trim (FT) - too weak	Intake leak, fuel pressure low, wiring, MAF sensor, HO2S
<b>2</b>		
121	<u>Mass air flow (MAF) sensor</u>	Wiring, MAF sensor
123	<u>Engine coolant temperature (ECT) sensor</u>	Wiring, ECT sensor
131	<u>Ignition control module (ICM) - engine RPM signal</u>	Wiring
<b>3</b>		
131	Engine speed (RPM) sensor - no signal	Wiring, air gap, RPM sensor
<b>4</b>		
132	<u>Engine control module (ECM) - supply voltage low/high</u>	Battery, alternator
133	<u>Throttle position (TP) switch - CTP contacts</u>	TP switch adjustment, accelerator cable adjustment, wiring, TP switch
142	<u>Ignition control module (ICM)</u>	<u>ICM</u>
143	<u>Knock sensor (KS) 1</u>	Wiring, KS
144	<u>Engine control module (ECM) - load signal</u>	Wiring, ECM
154	Exhaust gas recirculation (EGR) system - excessive flow detected	Wiring, EGR valve, EGR control module, engine coolant thermostat
212	<u>Heated oxygen sensor (HO2S)</u>	Wiring, heating inoperative, MAF sensor, HO2S
213	<u>Throttle position (TP) switch - WOT contacts</u>	TP switch adjustment, accelerator cable adjustment, wiring, TP switch
214	Engine speed (RPM) sensor - intermittent signal	Wiring, flywheel/drive plate damaged, air gap, RPM sensor
221	Fuel trim (FT), part load - too weak	Intake/exhaust leak, fuel pressure, wiring, MAF sensor, HO2S
223	<u>Idle air control (IAC) valve</u>	Wiring, IAC valve
224	<u>Engine coolant temperature (ECT) sensor</u>	Wiring, ECT sensor
231	Fuel trim (FT), part load - too weak/rich	Intake/exhaust leak, fuel pressure, excessive fuel in engine oil, injector(s), EVAP canister purge valve, wiring, MAF sensor, ECT sensor, HO2S
<b>1</b>		
231	Fuel trim (FT), part load - too rich	Fuel pressure high, excessive fuel in engine oil, injector(s), EVAP canister purge valve, wiring, MAF sensor, ECT sensor, HO2S
<b>2</b>		
232	Fuel trim (FT), idling - weak/rich	Intake/exhaust leak, fuel pressure, excessive fuel in engine oil, injector(s), EVAP canister purge valve, wiring, MAF sensor, ECT sensor, HO2S

234	<u>Throttle position (TP) switch - CTP contacts</u>	TP switch adjustment, accelerator cable adjustment, wiring, TP switch
241	Exhaust gas recirculation (EGR) system - insufficient flow detected	Hose leak/blockage, wiring, EGR valve, EGR control module, EGRT sensor, engine coolant thermostat
242	Turbocharger (TC) wastegate regulating valve	Wiring, TC wastegate regulating valve
311	<u>Vehicle speed sensor (VSS)</u>	Wiring, speedometer, VSS
312	<u>Ignition control module (ICM) - KS signal missing</u>	Wiring, ICM
314	Camshaft position (CMP) sensor - no/incorrect signal	Wiring, CMP sensor
322	<u>Mass air flow (MAF) sensor - no filament burn-off signal</u>	Wiring, ECM
324	Camshaft position (CMP) sensor - intermittent signal	Wiring, CMP sensor
342	AC compressor clutch cut-off relay	Wiring, AC compressor clutch cut-off relay
344	Exhaust gas temperature sensor	Wiring, EGRT sensor
411	<u>Throttle position (TP) sensor</u>	Wiring, TP sensor
413	Exhaust gas recirculation temperature (EGRT) sensor	Wiring, EGRT sensor
421	Manifold absolute pressure (MAP) sensor	Hose leak/blockage, TC, TC control module
422	Exhaust gas temperature sensor	Wiring, exhaust gas temperature sensor
<b>5</b>		
423	<u>Throttle position (TP) sensor</u>	Wiring, TP sensor
424	<u>Engine control module (ECM) - load signal</u>	Wiring, ECM if trouble code also stored in ICM
431	Engine coolant blower motor temperature sensor	Wiring, engine coolant blower motor temperature sensor
432	<u>Engine control module (ECM) - overheating</u>	Engine coolant blower motor, air supply blocked, module cooling fan
433	<u>Knock sensor (KS) 2</u>	Wiring, KS
512	Fuel trim (FT) - too rich	Intake blockage, excessive fuel in engine oil, fuel pressure high, wiring, MAF sensor, HO2S
513	<u>Engine control module (ECM) - overheating</u>	Engine coolant blower motor, air supply blocked, module cooling fan

**1** Bosch LH-Jetronic 2.4

**2** Bosch LH-Jetronic 3.2

**3** Engine control module (ECM).

**4** Ignition control module (ICM).

**5** Has no function on early models. Erase trouble code and check fuel system for trouble code 344.