

# TECHNET *TIMES*

VOL. 19, ISSUE 04

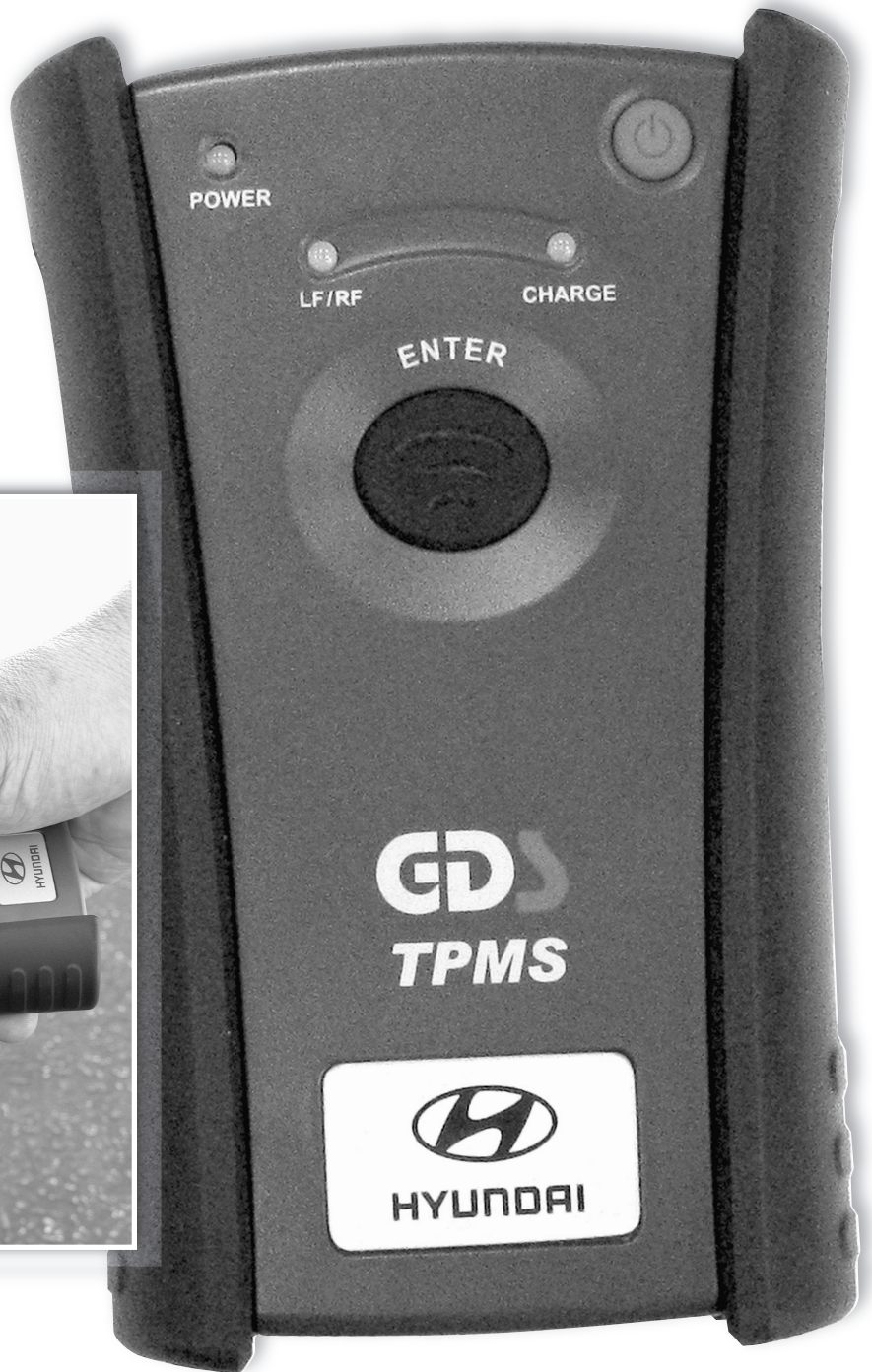


PUBLISHED BY THE NATIONAL SERVICE TECHNOLOGY DEPARTMENT

## Diagnostic Trouble Codes

NEW 7TH EDITION

**SPECIAL  
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Hyundai Diagnostic Trouble Code

This special issue of TechNet Times features a listing of general Diagnostic Trouble Codes and their explanation. Included in the back of the magazine is a special Hyundai Diagnostic Trouble Code section. Keep this issue on hand for a handy DTC reference guide. Don't forget to visit [www.hmaservice.com](http://www.hmaservice.com) for further Hyundai service information.

## OBD-II trouble code table

- The following list covers all SAE defined standard P zero codes allocated at the time of publication.
- All OBD-II codes starting with P zero have standard meanings irrespective of vehicle make or model.
- Hyundai specific codes match shop manuals and Hyundai GDS at time of publication.

Trouble code	Fault location	Probable cause
P0000	No fault found	—
P0001	Fuel volume regulator control – circuit open	Wiring, regulator control solenoid
P0002	Fuel volume regulator control – circuit range/performance	Wiring, regulator control solenoid
P0003	Fuel volume regulator control – circuit low	Wiring short to ground, regulator control solenoid
P0004	Fuel volume regulator control – circuit high	Wiring open circuit/short to positive, regulator control solenoid
P0005	Fuel shut-off valve control – circuit open	Wiring open circuit, fuel shut-off valve
P0006	Fuel shut-off valve control – circuit low	Wiring short to ground, fuel shut-off valve
P0007	Fuel shut-off valve control – circuit high	Wiring short to positive, fuel shut-off valve
P0008	Engine position system, bank 1 – performance	Mechanical fault
P0009	Engine position system, bank 2 – performance	Mechanical fault
P0010	Camshaft position (CMP) actuator, intake/left/front, bank 1 – circuit malfunction	Wiring, CMP actuator, ECM
P0011	Camshaft position (CMP), intake/left/front, bank 1 – timing over-advanced/system performance	Valve timing, engine mechanical fault, CMP actuator
P0012	Camshaft position (CMP), intake/left/front, bank 1 – timing over-retarded	Valve timing, engine mechanical fault, CMP actuator
P0013	Camshaft position (CMP) actuator, intake/left/front, bank 1 – circuit malfunction	Wiring, CMP actuator, ECM
P0014	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 – timing over-advanced/system performance	Valve timing, engine mechanical fault, CMP actuator
P0015	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 – timing over-retarded	Valve timing, engine mechanical fault, CMP actuator
P0016	Crankshaft position/camshaft position, bank 1 sensor A – correlation	Wiring, CKP sensor, CMP sensor, mechanical fault
P0017	Crankshaft position/camshaft position, bank 1 sensor B – correlation	Wiring, CKP sensor, CMP sensor, mechanical fault
P0018	Crankshaft position/camshaft position, bank 2 sensor A – correlation	Wiring, CKP sensor, CMP sensor, mechanical fault
P0019	Crankshaft position/camshaft position, bank 2 sensor B – correlation	Wiring, CKP sensor, CMP sensor, mechanical fault
P0020	Camshaft position (CMP) actuator, intake/left/front, bank 2 – circuit malfunction	Wiring, CMP actuator, ECM
P0021	Camshaft position (CMP), intake/left/front, bank 2 – timing over-advanced/system performance	Valve timing, engine mechanical fault, CMP actuator
P0022	Camshaft position (CMP), intake/left/front, bank 2 – timing over-retarded	Valve timing, engine mechanical fault, CMP actuator
P0023	Camshaft position (CMP) actuator, exhaust/right/rear, bank 2 – circuit malfunction	Wiring, CMP actuator, ECM
P0024	Camshaft position (CMP), exhaust/right/rear, bank 2 – timing over-advanced/system performance	Valve timing, engine mechanical fault, CMP actuator
P0025	Camshaft position (CMP), exhaust/right/rear, bank 2 – timing over-retarded	Valve timing, engine mechanical fault, CMP actuator

## OBD-II trouble code table

Trouble code	Fault location	Probable cause
P0026	Intake valve control solenoid circuit, bank 1 – range/performance	Wiring, intake valve control solenoid
P0027	Exhaust valve control solenoid circuit, bank 1 – range/performance	Wiring, exhaust valve control solenoid
P0028	Intake valve control solenoid circuit, bank 2 – range/performance	Wiring, intake valve control solenoid
P0029	Exhaust valve control solenoid circuit, bank 2 – range/performance	Wiring, exhaust valve control solenoid
P0030	Heated oxygen sensor (HO2S) 1, bank 1, heater control – circuit malfunction	Wiring, HO2S, ECM
P0031	Heated oxygen sensor (HO2S) 1, bank 1, heater control – circuit low	Wiring short to ground, HO2S, ECM
P0032	Heated oxygen sensor (HO2S) 1, bank 1, heater control – circuit high	Wiring short to positive, HO2S, ECM
P0033	Turbocharger (TC) wastegate regulating valve – circuit malfunction	Wiring, TC wastegate regulating valve, ECM
P0034	Turbocharger (TC) wastegate regulating valve – circuit low	Wiring short to ground, TC wastegate regulating valve, ECM
P0035	Turbocharger (TC) wastegate regulating valve – circuit high	Wiring short to positive, TC wastegate regulating valve, ECM
P0036	Heated oxygen sensor (HO2S) 2, bank 1, heater control – circuit malfunction	Wiring, HO2S, ECM
P0037	Heated oxygen sensor (HO2S) 2, bank 1, heater control – circuit low	Wiring short to ground, HO2S, ECM
P0038	Heated oxygen sensor (HO2S) 2, bank 1, heater control – circuit high	Wiring short to positive, HO2S, ECM
P0039	Turbo/super charger bypass valve, control circuit– range/performance	Wiring, bypass valve
P0040	Oxygen sensor signals swapped, bank 1 sensor 1/bank 2 sensor 1	Wiring
P0041	Oxygen sensor signals swapped, bank 1 sensor 2/bank 2 sensor 2	Wiring
P0042	Heated oxygen sensor (HO2S) 3, bank 1, heater control – circuit malfunction	Wiring, HO2S, ECM
P0043	Heated oxygen sensor (HO2S) 3, bank 1, heater control – circuit low	Wiring short to ground, HO2S, ECM
P0044	Heated oxygen sensor (HO2S) 3, bank 1, heater control – circuit high	Wiring short to positive, HO2S, ECM
P0045	Turbo/super charger boost control solenoid – circuit open	Wiring, boost control solenoid
P0046	Turbo/super charger boost control solenoid – circuit range/performance	Wiring, boost control solenoid, mechanical fault
P0047	Turbo/super charger boost control solenoid – circuit low	Wiring short to ground, boost control solenoid
P0048	Turbo/super charger boost control solenoid – circuit high	Wiring short to positive, boost control solenoid
P0049	Turbo/super charger turbine – over-speed	Mechanical fault
P0050	Heated oxygen sensor (HO2S) 1, bank 2, heater control – circuit malfunction	Wiring, HO2S, ECM
P0051	Heated oxygen sensor (HO2S) 1, bank 2, heater control – circuit low	Wiring short to ground, HO2S, ECM
P0052	Heated oxygen sensor (HO2S) 1, bank 2, heater control – circuit high	Wiring short to positive, HO2S, ECM
P0053	Heated oxygen sensor (HO2S), bank 1, sensor 1 – heater resistance	Wiring, HO2S
P0054	Heated oxygen sensor (HO2S), bank 1, sensor 2 – heater resistance	Wiring, HO2S
P0055	Heated oxygen sensor (HO2S), bank 1, sensor 3 – heater resistance	Wiring, HO2S
P0056	Heated oxygen sensor (HO2S) 2, bank 2, heater control – circuit malfunction	Wiring, HO2S, ECM
P0057	Heated oxygen sensor (HO2S) 2, bank 2, heater control – heater circuit low	Wiring short to ground, HO2S, ECM
P0058	Heated oxygen sensor (HO2S) 2, bank 2, heater control – circuit high	Wiring short to positive, HO2S, ECM
P0059	Heated oxygen sensor (HO2S), bank 2, sensor 1 – heater resistance	Wiring, HO2S
P0060	Heated oxygen sensor (HO2S), bank 2, sensor 2 – heater resistance	Wiring, HO2S
P0061	Heated oxygen sensor (HO2S), bank 2, sensor 3 – heater resistance	Wiring, HO2S

# Hyundai Diagnostic Trouble Code

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Trouble code	Fault location	Probable cause
P0062	Heated oxygen sensor (HO2S) 3, bank 2, heater control – circuit malfunction	Wiring, HO2S, ECM
P0063	Heated oxygen sensor (HO2S) 3, bank 2, heater control – circuit low	Wiring short to ground, HO2S, ECM
P0064	Heated oxygen sensor (HO2S) 3, bank 2, heater control – circuit high	Wiring short to positive, HO2S, ECM
P0065	Air assisted injector – range/performance problem	Air assisted injector
P0066	Air assisted injector – circuit malfunction/circuit low	Wiring short to ground, air assisted injector, ECM
P0067	Air assisted injector – circuit high	Wiring short to positive, air assisted injector, ECM
P0068	Manifold pressure (MAP) sensor/Mass air flow (MAF) sensor – throttle position correlation	Wiring, MAP sensor, MAF sensor, mechanical fault
P0069	Manifold pressure (MAP) sensor – barometric pressure correlation	MAF sensor, mechanical fault
P0070	Outside air temperature sensor – circuit malfunction	Wiring, outside air temperature sensor, ECM
P0071	Outside air temperature sensor – range/performance problem	Outside air temperature sensor
P0072	Outside air temperature sensor – low input	Wiring, short to ground, outside air temperature sensor, ECM
P0073	Outside air temperature sensor – high input	Wiring, short to positive, outside air temperature sensor, ECM
P0074	Outside air temperature sensor – circuit intermittent	Wiring, poor connection, outside air temperature sensor, ECM
P0075	Intake valve control solenoid, bank 1 – circuit malfunction	Wiring, intake valve control solenoid, ECM
P0076	Intake valve control solenoid, bank 1 – circuit low	Wiring short to ground, intake valve control solenoid, ECM
P0077	Intake valve control solenoid, bank 1 – circuit high	Wiring short to positive, intake valve control solenoid, ECM
P0078	Exhaust valve control solenoid, bank 1 – circuit malfunction	Wiring, exhaust valve control solenoid, ECM
P0079	Exhaust valve control solenoid, bank 1 – circuit low	Wiring short to ground, exhaust valve control solenoid, ECM
P0080	Exhaust valve control solenoid, bank 1 – circuit high	Wiring short to positive, exhaust valve control solenoid, ECM
P0081	Intake valve control solenoid, bank 2 – circuit malfunction	Wiring, intake valve control solenoid, ECM
P0082	Intake valve control solenoid, bank 2 – circuit low	Wiring short to ground, intake valve control solenoid, ECM
P0083	Intake valve control solenoid, bank 2 – circuit high	Wiring short to positive, intake valve control solenoid, ECM
P0084	Exhaust valve control solenoid, bank 2 – circuit malfunction	Wiring, exhaust valve control solenoid, ECM
P0085	Exhaust valve control solenoid, bank 2 – circuit low	Wiring short to ground, exhaust valve control solenoid, ECM
P0086	Exhaust valve control solenoid, bank 2 – circuit high	Wiring short to positive, exhaust valve control solenoid, ECM
P0087	Fuel rail/system pressure – too low	Fuel pump, fuel pressure regulator, fuel supply pipe blockage, mechanical fault
P0088	Fuel rail/system pressure – too high	Fuel pump, fuel pressure regulator, fuel return pipe blockage, mechanical fault
P0089	Fuel pressure regulator – performance problem	Fuel pressure regulator, mechanical fault
P0090	Fuel metering solenoid – open circuit	Wiring open circuit, fuel metering solenoid, ECM
P0091	Fuel metering solenoid – short to ground	Wiring short to ground, fuel metering solenoid, ECM
P0092	Fuel metering solenoid – short to positive	Wiring short to positive, fuel metering solenoid, ECM
P0093	Fuel system leak detected – large leak	Wiring, fuel pressure sensor, mechanical fault
P0094	Fuel system leak detected – small leak	Wiring, fuel pressure sensor, mechanical fault
P0095	Intake air temperature (IAT) sensor 2 – circuit malfunction	Wiring, poor connection, IAT sensor, ECM
P0096	Intake air temperature (IAT) sensor 2 – circuit range/performance	Wiring, poor connection, IAT sensor, ECM

TechNet Times Special Edition: **OBD-II Trouble Codes**

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