

Gunson

FAULT CODE READER

OBD II

FOR PETROL ENGINES

PART NO 77004

HANDBOOK

CE

FAULT CODE READER FOR PETROL ENGINES with OBD I I

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I. Introduction

Modern vehicles have electronic control units (ECU) that are able to identify faults and record these in a memory. The system was first introduced on engine management control units with electronic fuel injection around 1986. It is now virtually universal to all PETROL engine vehicles. This is a great benefit to service personnel as it can considerably simplify vehicle repair. The vehicle faults are stored in the vehicle's ECU memory as **FAULT CODES**.

The system is so simple that retrieving vehicle fault codes does not require particular skill. However, in order to read these fault codes some equipment is necessary. A Code Reader is used to instruct the vehicle's ECU to download fault codes and present them to the user on a display. The Code Reader will activate that part of the On Board Diagnostic (OBD) programme which identifies the defective component and cause a code to be displayed

Prior to 1995 vehicle manufacturers used a connector type unique to their own cars (OBD I). For products in the Gunson range, specific to these vehicles contact our Technical Service Team on 01926 818181

Only recently have there been moves to a standard 16 pin socket as used in the late 1990's and compulsory with OBD II standard from year 2000 in Europe.

It is now mandatory for diesel and LPG engines to comply with this legislation and Gunson are currently developing a Fault Code Reader for these vehicles.

Before using this product (or carrying out any vehicle maintenance), the user is recommended to read the precautions section of this manual.

This equipment bears the "CE" mark indicating that it complies with European Directives including electromagnetic compatibility. This ensures that the equipment does not emit excessive interference and is not adversely affected by interference of a level defined by the regulations.

Diagnostic Socket

The socket will be located in the passenger compartment, with easy access from the drivers' seat. Normally this will be between the steering column and the vehicles' centreline.

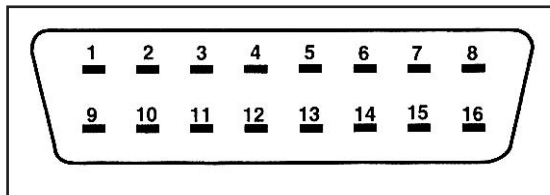
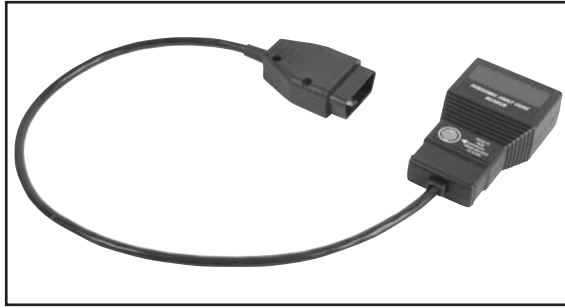


Diagram of Socket



Fault Code Reader

2. Instructions

1. Switch ignition on
2. The Display should read PCr
3. Press the button once to begin interrogating the ECU for any stored fault codes
4. The reading CODE will appear if there are any registered faults
5. The unit will then display P C or U followed by a 4 digit code
6. Record the code and press the button again to read the next code
7. Once all the stored codes have been recorded the Unit will display DONE
8. To clear the stored fault codes, press the button once again and hold to until all codes are

Five Digit Code	Code	Area of Malfunction
Letter Prefix	P*	Power train
First Number	0	Standard EOBD
Second Number	0	Standard Code
	1 or 2	Air/Fuel
	3	Ignition
	4	Emission Control
	5	Speed Control
	6	Trip Computer
	7 or 8	Transmission
Third/Forth Number		Specific Fault

cleared

NB: Any codes for emission related problems start with the P0100 code (ISO)

* Although the Fault Code Reader will read C and U Codes (Chassis and Network Communications Systems) most ECU are not yet developed to output this information

For example

A code reading P0216

P = Power train	0 = Standard EOBD	2 = Air/Fuel	16 = Injector/Injection Timing Control Circuit at fault
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Consultation with your workshop manual will help you identify the probable cause of the fault.

3. Common Terms

ECU **ELECTRONIC CONTROL UNIT** These units may control a separate function, for example fuel injection, ignition,

PTCU – POWER TRAIN CONTROL UNIT

OBD I **ON BOARD DIAGNOSTICS** These diagnostic systems was specific to individual manufacturers' and not consistent throughout the industry. Gunson has a range of connections which cover most popular manufacturers – prior to 1995 – Contact Gunson on 01926 818181 for more information

EOBD IIEUROPEAN ON BOARD DIAGNOSTICS – Mandatory for most vehicles with petrol engines produced after 1st January 2000. Vehicles already in production of that date were granted exemption until January 2001.

DTC **DIAGNOSTIC TROUBLE CODE**

CAN **CONTROL AREA NETWORK** (This product is not suitable for vehicles with CAN systems)

4. Precautions

Make sure the vehicle handbrake is firmly applied. Block the wheels as additional safeguard if the vehicle is on sloping ground.

Take care to avoid placing metal tools where they may cause an electrical short, such as near the vehicle battery, or where they may be dislodged by engine vibration.

Take care not to inhale exhaust gas. Never run the engine inside a garage or in a confined space. When running the engine, always ensure that there is adequate circulation of fresh air.

When carrying out tests on a motor vehicle, remember NEVER disconnect a battery terminal with the engine running since the alternator would then run at a damaging over-voltage.

Keep children and pets away from the vehicle while work is being carried out.

5. Fault Codes & Description

P0001	Fuel Volume Regulator Control Circuit/Open
P0002	Fuel Volume Regulator Control Circuit Range/Performance
P0003	Fuel Volume Regulator Control Circuit Low
P0004	Fuel Volume Regulator Control Circuit High
P0005	Fuel Shutoff Valve "A" Control Circuit/Open
P0006	Fuel Shutoff Valve "A" Control Circuit Low
P0007	Fuel Shutoff Valve "A" Control Circuit High
P0008	Engine Position System Performance Bank 1
P0009	Engine Position System Performance Bank 2
P0010	"A" Camshaft Position Actuator Circuit Bank 1
P0011	"A" Camshaft Position - Timing Over-Advanced or System Performance Bank 1
P0012	"A" Camshaft Position - Timing Over-Retarded Bank 1
P0013	"B" Camshaft Position - Actuator Circuit Bank 1
P0014	"B" Camshaft Position - Timing Over-Advanced or System Performance Bank 1
P0015	"B" Camshaft Position - Timing Over-Retarded Bank 1
P0016	Crankshaft Position –Camshaft Position Correlation Bank 1 Sensor A
P0017	Crankshaft Position –Camshaft Position Correlation Bank 1 Sensor B
P0018	Crankshaft Position –Camshaft Position Correlation Bank 2 Sensor A
P0019	Crankshaft Position –Camshaft Position Correlation Bank 2 Sensor B
P0020	"A" Camshaft Position Actuator Circuit Bank 2
P0021	"A" Camshaft Position - Timing Over-Advanced or System Performance Bank 2
P0022	"A" Camshaft Position - Timing Over-Retarded Bank 2
P0023	"B" Camshaft Position - Actuator Circuit Bank 2
P0024	"B" Camshaft Position - Timing Over-Advanced or System Performance Bank 2
P0025	"B" Camshaft Position - Timing Over-Retarded Bank 2
P0026	Intake Valve Control Solenoid Circuit Range/Performance Bank 1
P0027	Exhaust Valve Control Solenoid Circuit Range/Performance Bank 1
P0028	Intake Valve Control Solenoid Circuit Range/Performance Bank 2
P0029	Exhaust Valve Control Solenoid Circuit Range/Performance Bank 2
P0030	HO2S Heater Control Circuit Bank 1 Sensor 1
P0031	HO2S Heater Control Circuit Low Bank 1 Sensor 1
P0032	HO2S Heater Control Circuit High Bank 1 Sensor 1
P0033	Turbo Charger Bypass Valve Control Circuit
P0034	Turbo Charger Bypass Valve Control Circuit Low
P0035	Turbo Charger Bypass Valve Control Circuit High
P0036	HO2S Heater Control Circuit Bank 1 Sensor 2
P0037	HO2S Heater Control Circuit Low Bank 1 Sensor 2
P0038	HO2S Heater Control Circuit High Bank 1 Sensor 2
P0039	Turbo/Super Charger Bypass Valve Control Circuit Range/Performance
P0040	O2 Sensor Signals Swapped Bank 1 Sensor 1/ Bank 2 Sensor 1
P0041	O2 Sensor Signals Swapped Bank 1 Sensor 2/ Bank 2 Sensor 2
P0042	HO2S Heater Control Circuit Bank 1 Sensor 3
P0043	HO2S Heater Control Circuit Low Bank 1 Sensor 3
P0044	HO2S Heater Control Circuit High Bank 1 Sensor 3
P0045	Turbo/Super Charger Boost Control Solenoid Circuit/Open
P0046	Turbo/Super Charger Boost Control Solenoid Circuit Range/Performance
P0047	Turbo/Super Charger Boost Control Solenoid Circuit Low
P0048	Turbo/Super Charger Boost Control Solenoid Circuit High
P0049	Turbo/Super Charger Turbine Overspeed
P0050	HO2S Heater Control Circuit Bank 2 Sensor 1
P0051	HO2S Heater Control Circuit Low Bank 2 Sensor 1
P0052	HO2S Heater Control Circuit High Bank 2 Sensor 1

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P0053	HO2S Heater Resistance Bank 1 Sensor 1
P0054	HO2S Heater Resistance Bank 1 Sensor 2
P0055	HO2S Heater Resistance Bank 1 Sensor 3
P0056	HO2S Heater Control Circuit Bank 2 Sensor 2
P0057	HO2S Heater Control Circuit Low Bank 2 Sensor 2
P0058	HO2S Heater Control Circuit High Bank 2 Sensor 2
P0059	HO2S Heater Resistance Bank 2 Sensor 1
P0060	HO2S Heater Resistance Bank 2 Sensor 2
P0061	HO2S Heater Resistance Bank 2 Sensor 3
P0062	HO2S Heater Control Circuit Bank 2 Sensor 3
P0063	HO2S Heater Control Circuit Low Bank 2 Sensor 3
P0064	HO2S Heater Control Circuit High Bank 2 Sensor 3
P0065	Air Assisted Injector Control Range/Performance
P0066	Air Assisted Injector Control Circuit or Circuit Low
P0067	Air Assisted Injector Control Circuit High
P0068	MAP/MAF – Throttle Position Correlation
P0069	Manifold Absolute Pressure – Barometric Pressure Correlation
P0070	Ambient Air Temperature Sensor Circuit
P0071	Ambient Air Temperature Sensor Range/Performance
P0072	Ambient Air Temperature Sensor Circuit Low
P0073	Ambient Air Temperature Sensor Circuit High
P0074	Ambient Air Temperature Sensor Circuit Intermittent
P0075	Intake Valve Control Solenoid Circuit Bank 1
P0076	Intake Valve Control Solenoid Circuit Low Bank 1
P0077	Intake Valve Control Solenoid Circuit High Bank 1
P0078	Exhaust Valve Control Solenoid Circuit bank 1
P0079	Exhaust Valve Control Solenoid Circuit Low Bank 1
P0080	Exhaust Valve Control Solenoid Circuit High Bank 1
P0081	Intake Valve Control Solenoid Circuit Bank 2
P0082	Intake Valve Control Solenoid Circuit Low Bank 2
P0083	Intake Valve Control Solenoid Circuit High Bank 2
P0084	Exhaust Valve Control Solenoid Circuit Bank 2
P0085	Exhaust Valve Control Solenoid Circuit Low Bank 2
P0086	Exhaust Valve Control Solenoid Circuit High Bank 2
P0087	Fuel Rail/System Pressure - Too Low
P0088	Fuel Rail/System Pressure - Too High
P0089	Fuel Pressure Regulator 1 Performance
P0090	Fuel Pressure Regulator 1 Control Circuit
P0091	Fuel Pressure Regulator 1 Control Circuit Low
P0092	Fuel Pressure Regulator 1 Control Circuit High
P0093	Fuel System Leak Detected – Large Leak
P0094	Fuel System Leak Detected – Small Leak
P0095	Intake Air Temperature Sensor 2 Circuit
P0096	Intake Air Temperature Sensor 2 Circuit Range/Performance
P0097	Intake Air Temperature Sensor 2 Circuit Low
P0098	Intake Air Temperature Sensor 2 Circuit High
P0099	Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic
P0100	Mass or Volume Air Flow Circuit
P0101	Mass or Volume Air Flow Circuit Range/Performance
P0102	Mass or Volume Air Flow Circuit Low Input
P0103	Mass or Volume Air Flow Circuit High Input
P0104	Mass or Volume Air Flow Circuit Intermittent
P0105	Manifold Absolute Pressure/Barometric Pressure Circuit
P0106	Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance
P0107	Manifold Absolute Pressure/Barometric Pressure Circuit Low Input
P0108	Manifold Absolute Pressure/Barometric Pressure Circuit High Input

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P0109	Manifold Absolute Pressure/Barometric Pressure Circuit Intermittent
P0110	Intake Air Temperature Sensor I Circuit
P0111	Intake Air Temperature Sensor I Circuit Range/Performance
P0112	Intake Air Temperature Sensor I Circuit Low
P0113	Intake Air Temperature Sensor I Circuit High
P0114	Intake Air Temperature Sensor I Circuit Intermittent
P0115	Engine Coolant Temperature Circuit
P0116	Engine Coolant Temperature Circuit Range/Performance
P0117	Engine Coolant Temperature Circuit Low
P0118	Engine Coolant Temperature Circuit High
P0119	Engine Coolant Temperature Circuit Intermittent
P0120	Throttle/Pedal Position Sensor/Switch "A" Circuit
P0121	Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance
P0122	Throttle/Pedal Position Sensor/Switch "A" Circuit Low
P0123	Throttle/Pedal Position Sensor/Switch "A" Circuit High
P0124	Throttle/Pedal Position Sensor/Switch "A" Circuit Intermittent
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control
P0126	Insufficient Coolant Temperature for Stable Operation
P0127	Intake Air Temperature Too High
P0128	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)
P0129	Barometric Pressure Too Low
P0130	O2 Sensor Circuit Bank I Sensor I
P0131	O2 Sensor Circuit Low Voltage Bank I Sensor I
P0132	O2 Sensor Circuit High Voltage Bank I Sensor I
P0133	O2 Sensor Circuit Slow Response Bank I Sensor I
P0134	O2 Sensor Circuit No Activity Detected Bank I Sensor I
P0135	O2 Sensor Heater Circuit Bank I Sensor I
P0136	O2 Sensor Circuit Bank I Sensor 2
P0137	O2 Sensor Circuit Low Voltage Bank I Sensor 2
P0138	O2 Sensor Circuit High Voltage Bank I Sensor 2
P0139	O2 Sensor Circuit Slow Response Bank I Sensor 2
P0140	O2 Sensor Circuit No Activity Detected Bank I Sensor 2
P0141	O2 Sensor Heater Circuit Bank I Sensor 2
P0142	O2 Sensor Circuit Bank I Sensor 3
P0143	O2 Sensor Circuit Low Voltage Bank I Sensor 3
P0144	O2 Sensor Circuit High Voltage Bank I Sensor 3
P0145	O2 Sensor Circuit Slow Response Bank I Sensor 3
P0146	O2 Sensor Circuit No Activity Detected Bank I Sensor 3
P0147	O2 Sensor Heater Circuit Bank I Sensor 3
P0148	Fuel Delivery Error
P0149	Fuel Timing Error
P0150	O2 Sensor Circuit Bank 2 Sensor I
P0151	O2 Sensor Circuit Low Voltage Bank 2 Sensor I
P0152	O2 Sensor Circuit High Voltage Bank 2 Sensor I
P0153	O2 Sensor Circuit Slow Response Bank 2 Sensor I
P0154	O2 Sensor Circuit No Activity Detected Bank 2 Sensor I
P0155	O2 Sensor Heater Circuit Bank 2 Sensor I
P0156	O2 Sensor Circuit Bank 2 Sensor 2
P0157	O2 Sensor Circuit Low Voltage Bank 2 Sensor 2
P0158	O2 Sensor Circuit High Voltage Bank 2 Sensor 2
P0159	O2 Sensor Circuit Slow Response Bank 2 Sensor 2
P0160	O2 Sensor Circuit No Activity Detected Bank 2 Sensor 2
P0161	O2 Sensor Heater Circuit Bank 2 Sensor 2
P0162	O2 Sensor Circuit Bank 2 Sensor 3
P0163	O2 Sensor Circuit Low Voltage Bank 2 Sensor 3

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P0164	O2 Sensor Circuit High Voltage Bank 2 Sensor 3
P0165	O2 Sensor Circuit Slow Response Bank 2 Sensor 3
P0166	O2 Sensor Circuit No Activity Detected Bank 2 Sensor 3
P0167	O2 Sensor Heater Circuit Bank 2 Sensor 3
P0168	Fuel Temperature Too High
P0169	Incorrect Fuel Composition
P0170	Fuel Trim Bank 1
P0171	System Too Lean Bank 1
P0172	System Too Rich Bank 1
P0173	Fuel Trim Bank 2
P0174	System Too Lean Bank 2
P0175	System Too Rich Bank 2
P0176	Fuel Composition Sensor Circuit
P0177	Fuel Composition Sensor Circuit Range/Performance
P0178	Fuel Composition Sensor Circuit Low
P0179	Fuel Composition Sensor Circuit High
P0180	Fuel Temperature Sensor A Circuit
P0181	Fuel Temperature Sensor A Circuit Range/Performance
P0182	Fuel Temperature Sensor A Circuit Low
P0183	Fuel Temperature Sensor A Circuit High
P0184	Fuel Temperature Sensor A Circuit Intermittent
P0185	Fuel Temperature Sensor B Circuit
P0186	Fuel Temperature Sensor B Circuit Range/Performance
P0187	Fuel Temperature Sensor B Circuit Low
P0188	Fuel Temperature Sensor B Circuit High
P0189	Fuel Temperature Sensor B Circuit Intermittent
P0190	Fuel Rail Pressure Sensor Circuit
P0191	Fuel Rail Pressure Sensor Circuit Range/Performance
P0192	Fuel Rail Pressure Sensor Circuit Low
P0193	Fuel Rail Pressure Sensor Circuit High
P0194	Fuel Rail Pressure Sensor Circuit Intermittent
P0195	Engine Oil Temperature Sensor
P0196	Engine Oil Temperature Sensor Range/Performance
P0197	Engine Oil Temperature Sensor Low
P0198	Engine Oil Temperature Sensor High
P0199	Engine Oil Temperature Sensor Intermittent
P0200	Injector Circuit/Open
P0201	Injector Circuit/Open – Cylinder 1
P0202	Injector Circuit/Open – Cylinder 2
P0203	Injector Circuit/Open – Cylinder 3
P0204	Injector Circuit/Open – Cylinder 4
P0205	Injector Circuit/Open – Cylinder 5
P0206	Injector Circuit/Open – Cylinder 6
P0207	Injector Circuit/Open – Cylinder 7
P0208	Injector Circuit/Open – Cylinder 8
P0209	Injector Circuit/Open – Cylinder 9
P0210	Injector Circuit/Open – Cylinder 10
P0211	Injector Circuit/Open – Cylinder 11
P0212	Injector Circuit/Open – Cylinder 12
P0213	Cold Start Injector 1
P0214	Cold Start Injector 2
P0215	Engine Shutoff Solenoid
P0216	Injector/Injection Timing Control Circuit
P0217	Engine Coolant Over Temperature Condition
P0218	Transmission Fluid Over Temperature Condition
P0219	Engine Overspeed Condition

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P0220	Throttle/Pedal Position Sensor/Switch "B" Circuit
P0221	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance
P0222	Throttle/Pedal Position Sensor/Switch "B" Circuit Low
P0223	Throttle/Pedal Position Sensor/Switch "B" Circuit High
P0224	Throttle/Pedal Position Sensor/Switch "B" Circuit Intermittent
P0225	Throttle/Pedal Position Sensor/Switch "C" Circuit
P0226	Throttle/Pedal Position Sensor/Switch "C" Circuit Range/Performance
P0227	Throttle/Pedal Position Sensor/Switch "C" Circuit Low
P0228	Throttle/Pedal Position Sensor/Switch "C" Circuit High
P0229	Throttle/Pedal Position Sensor/Switch "C" Circuit Intermittent
P0230	Fuel Pump Primary Circuit
P0231	Fuel Pump Secondary Circuit Low
P0232	Fuel Pump Secondary Circuit High
P0233	Fuel Pump Secondary Circuit Intermittent
P0234	Turbo/Super Charger Overboost Condition
P0235	Turbo/Super Charger Boost Sensor "A" Circuit
P0236	Turbo/Super Charger Boost Sensor "A" Circuit Range/Performance
P0237	Turbo/Super Charger Boost Sensor "A" Circuit Low
P0238	Turbo/Super Charger Boost Sensor "A" Circuit High
P0239	Turbo/Super Charger Boost Sensor "B" Circuit
P0240	Turbo/Super Charger Boost Sensor "B" Circuit Range/Performance
P0241	Turbo/Super Charger Boost Sensor "B" Circuit Low
P0242	Turbo/Super Charger Boost Sensor "B" Circuit High
P0243	Turbo/Super Charger Wastegate Solenoid "A"
P0244	Turbo/Super Charger Wastegate Solenoid "A" Range/Performance
P0245	Turbo/Super Charger Wastegate Solenoid "A" Low
P0246	Turbo/Super Charger Wastegate Solenoid "A" High
P0247	Turbo/Super Charger Wastegate Solenoid "B"
P0248	Turbo/Super Charger Wastegate Solenoid "B" Range/Performance
P0249	Turbo/Super Charger Wastegate Solenoid "B" Low
P0250	Turbo/Super Charger Wastegate Solenoid "B" High
P0251	Injection Pump Fuel Metering Control "A" (Cam/Rotor/Injector)
P0252	Injection Pump Fuel Metering Control "A" Range/Performance (Cam/Rotor/Injector)
P0253	Injection Pump Fuel Metering Control "A" Low (Cam/Rotor/Injector)
P0254	Injection Pump Fuel Metering Control "A" High (Cam/Rotor/Injector)
P0255	Injection Pump Fuel Metering Control "A" Intermittent (Cam/Rotor/Injector)
P0256	Injection Pump Fuel Metering Control "B" (Cam/Rotor/Injector)
P0257	Injection Pump Fuel Metering Control "B" Range/Performance (Cam/Rotor/Injector)
P0258	Injection Pump Fuel Metering Control "B" Low (Cam/Rotor/Injector)
P0259	Injection Pump Fuel Metering Control "B" High (Cam/Rotor/Injector)
P0260	Injection Pump Fuel Metering Control "B" Intermittent (Cam/Rotor/Injector)
P0261	Cylinder 1 Injector Circuit Low
P0262	Cylinder 1 Injector Circuit High
P0263	Cylinder 1 Contribution/Balance
P0264	Cylinder 2 Injector Circuit Low
P0265	Cylinder 2 Injector Circuit High
P0266	Cylinder 2 Contribution/Balance
P0267	Cylinder 3 Injector Circuit Low
P0268	Cylinder 3 Injector Circuit High
P0269	Cylinder 3 Contribution/Balance
P0270	Cylinder 4 Injector Circuit Low
P0271	Cylinder 4 Injector Circuit High
P0272	Cylinder 4 Contribution/Balance
P0273	Cylinder 5 Injector Circuit Low
P0274	Cylinder 5 Injector Circuit High
P0275	Cylinder 5 Contribution/Balance

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P0276	Cylinder 6 Injector Circuit Low
P0277	Cylinder 6 Injector Circuit High
P0278	Cylinder 6 Contribution/Balance
P0279	Cylinder 7 Injector Circuit Low
P0280	Cylinder 7 Injector Circuit High
P0281	Cylinder 7 Contribution/Balance
P0282	Cylinder 8 Injector Circuit Low
P0283	Cylinder 8 Injector Circuit High
P0284	Cylinder 8 Contribution/Balance
P0285	Cylinder 9 Injector Circuit Low
P0286	Cylinder 9 Injector Circuit High
P0287	Cylinder 9 Contribution/Balance
P0288	Cylinder 10 Injector Circuit Low
P0289	Cylinder 10 Injector Circuit High
P0290	Cylinder 10 Contribution/Balance
P0291	Cylinder 11 Injector Circuit Low
P0292	Cylinder 11 Injector Circuit High
P0293	Cylinder 11 Contribution/Balance
P0294	Cylinder 12 Injector Circuit Low
P0295	Cylinder 12 Injector Circuit High
P0296	Cylinder 12 Contribution/Balance
P0297	Vehicle Overspeed Condition
P0298	Engine Oil Over Temperature
P0299	Turbo/Super Charger Underboost
P0300	Random/Multiple Cylinder Misfire Detected
P0301	Cylinder 1 Misfire Detected
P0302	Cylinder 2 Misfire Detected
P0303	Cylinder 3 Misfire Detected
P0304	Cylinder 4 Misfire Detected
P0305	Cylinder 5 Misfire Detected
P0306	Cylinder 6 Misfire Detected
P0307	Cylinder 7 Misfire Detected
P0308	Cylinder 8 Misfire Detected
P0309	Cylinder 9 Misfire Detected
P0310	Cylinder 10 Misfire Detected
P0311	Cylinder 11 Misfire Detected
P0312	Cylinder 12 Misfire Detected
P0313	Misfire Detected with Low Fuel
P0314	Single Cylinder Misfire (Cylinder not Specified)
P0315	Crankshaft Position System Variation Not Learned
P0316	Engine Misfire Detected on Startup (First 1000 Revolutions)
P0317	Rough Road Hardware Not Present
P0318	Rough Road Sensor "A" Signal Circuit
P0319	Rough Road Sensor "B"
P0320	Ignition/Distributor Engine Speed Input Circuit
P0321	Ignition/Distributor Engine Speed Input Circuit Range/Performance
P0322	Ignition/Distributor Engine Speed Input Circuit No Signal
P0323	Ignition/Distributor Engine Speed Input Circuit Intermittent
P0324	Knock Control System Error
P0325	Knock Sensor 1 Circuit Bank 1 or Single Sensor
P0326	Knock Sensor 1 Circuit Range/Performance Bank 1 or Single Sensor
P0327	Knock Sensor 1 Circuit Low Bank 1 or Single Sensor
P0328	Knock Sensor 1 Circuit High Bank 1 or Single Sensor
P0329	Knock Sensor 1 Circuit Input Intermittent Bank 1 or Single Sensor
P0330	Knock Sensor 2 Circuit Bank 2
P0331	Knock Sensor 2 Circuit Range/Performance Bank 2

P0332	Knock Sensor 2 Circuit Low Bank 2
P0333	Knock Sensor 2 Circuit High Bank 2
P0334	Knock Sensor 2 Circuit Input Intermittent Bank 2
P0335	Crankshaft Position Sensor "A" Circuit
P0336	Crankshaft Position Sensor "A" Circuit Range/Performance
P0337	Crankshaft Position Sensor "A" Circuit Low
P0338	Crankshaft Position Sensor "A" Circuit High
P0339	Crankshaft Position Sensor "A" Circuit Intermittent
P0340	Camshaft Position Sensor "A" Circuit Bank 1 or Single Sensor
P0341	Camshaft Position Sensor "A" Circuit Range/Performance Bank 1 or Single Sensor
P0342	Camshaft Position Sensor "A" Circuit Low Bank 1 or Single Sensor
P0343	Camshaft Position Sensor "A" Circuit High Bank 1 or Single Sensor
P0344	Camshaft Position Sensor "A" Circuit Intermittent Bank 1 or Single Sensor
P0345	Camshaft Position Sensor "A" Circuit Bank 2
P0346	Camshaft Position Sensor "A" Circuit Range/Performance Bank 2
P0347	Camshaft Position Sensor "A" Circuit Low Bank 2
P0348	Camshaft Position Sensor "A" Circuit High Bank 2
P0349	Camshaft Position Sensor "A" Circuit Intermittent Bank 2
P0350	Ignition Coil Primary/Secondary Circuit
P0351	Ignition Coil "A" Primary/Secondary Circuit
P0352	Ignition Coil "B" Primary/Secondary Circuit
P0353	Ignition Coil "C" Primary/Secondary Circuit
P0354	Ignition Coil "D" Primary/Secondary Circuit
P0355	Ignition Coil "E" Primary/Secondary Circuit
P0356	Ignition Coil "F" Primary/Secondary Circuit
P0357	Ignition Coil "G" Primary/Secondary Circuit
P0358	Ignition Coil "H" Primary/Secondary Circuit
P0359	Ignition Coil "I" Primary/Secondary Circuit
P0360	Ignition Coil "J" Primary/Secondary Circuit
P0361	Ignition Coil "K" Primary/Secondary Circuit
P0362	Ignition Coil "L" Primary/Secondary Circuit
P0363	Misfire Detected – Fueling Disabled
P0364	Reserved
P0365	Camshaft Position Sensor "B" Circuit Bank 1
P0366	Camshaft Position Sensor "B" Circuit Range/Performance Bank 1
P0367	Camshaft Position Sensor "B" Circuit Low Bank 1
P0368	Camshaft Position Sensor "B" Circuit High Bank 1
P0369	Camshaft Position Sensor "B" Circuit Intermittent Bank 1
P0370	Timing Reference High Resolution Signal "A"
P0371	Timing Reference High Resolution Signal "A" Too Many Pulses
P0372	Timing Reference High Resolution Signal "A" Too Few Pulses
P0373	Timing Reference High Resolution Signal "A" Intermittent/Erratic Pulses
P0374	Timing Reference High Resolution Signal "A" No Pulse
P0375	Timing Reference High Resolution Signal "B"
P0376	Timing Reference High Resolution Signal "B" Too Many Pulses
P0377	Timing Reference High Resolution Signal "B" Too Few Pulses
P0378	Timing Reference High Resolution Signal "B" Intermittent/Erratic Pulses
P0379	Timing Reference High Resolution Signal "B" No Pulses
P0380	Glow Plug/Heater Circuit "A"
P0381	Glow Plug/Heater Indicator Circuit
P0382	Glow Plug/Heater Circuit "B"
P0383-P0384	Reserved
P0385	Crankshaft Position Sensor "B" Circuit
P0386	Crankshaft Position Sensor "B" Circuit Range/Performance
P0387	Crankshaft Position Sensor "B" Circuit Low
P0388	Crankshaft Position Sensor "B" Circuit High

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P0389	Crankshaft Position Sensor "B" Circuit Intermittent
P0390	Camshaft Position Sensor "B" Circuit Bank 2
P0391	Camshaft Position Sensor "B" Circuit Range/Performance Bank 2
P0392	Camshaft Position Sensor "B" Circuit Low Bank 2
P0393	Camshaft Position Sensor "B" Circuit High Bank 2
P0394	Camshaft Position Sensor "B" Circuit Intermittent Bank 2
P0400	Exhaust Gas Recirculation Flow
P0401	Exhaust Gas Recirculation Flow Insufficient Detected
P0402	Exhaust Gas Recirculation Flow Excessive Detected
P0403	Exhaust Gas Recirculation Control Circuit
P0404	Exhaust Gas Recirculation Control Circuit Range/Performance
P0405	Exhaust Gas Recirculation Sensor "A" Circuit Low
P0406	Exhaust Gas Recirculation Sensor "A" Circuit High
P0407	Exhaust Gas Recirculation Sensor "B" Circuit Low
P0408	Exhaust Gas Recirculation Sensor "B" Circuit High
P0409	Exhaust Gas Recirculation Sensor "A" Circuit
P0410	Secondary Air Injection System
P0411	Secondary Air Injection System Incorrect Flow Detected
P0412	Secondary Air Injection System Switching Valve "A" Circuit
P0413	Secondary Air Injection System Switching Valve "A" Circuit Open
P0414	Secondary Air Injection System Switching Valve "A" Circuit Shorted
P0415	Secondary Air Injection System Switching Valve "B" Circuit
P0416	Secondary Air Injection System Switching Valve "B" Circuit Open
P0417	Secondary Air Injection System Switching Valve "B" Circuit Shorted
P0418	Secondary Air Injection System Control "A" Circuit
P0419	Secondary Air Injection System Control "B" Circuit
P0420	Catalyst System Efficiency Below Threshold Bank 1
P0421	Warm Up Catalyst Efficiency Below Threshold Bank 1
P0422	Main Catalyst Efficiency Below Threshold Bank 1
P0423	Heated Catalyst Efficiency Below Threshold Bank 1
P0424	Heated Catalyst Temperature Below Threshold Bank 1
P0425	Catalyst Temperature Sensor Bank 1
P0426	Catalyst Temperature Sensor Range/Performance Bank 1
P0427	Catalyst Temperature Sensor Low Bank 1
P0428	Catalyst Temperature Sensor High Bank 1
P0429	Catalyst Heater Control Circuit Bank 1
P0430	Catalyst System Efficiency Below Threshold Bank 2
P0431	Warm Up Catalyst Efficiency Below Threshold Bank 2
P0432	Main Catalyst Efficiency Below Threshold Bank 2
P0433	Heated Catalyst Efficiency Below Threshold Bank 2
P0434	Heated Catalyst Temperature Below Threshold Bank 2
P0435	Catalyst Temperature Sensor Bank 2
P0436	Catalyst Temperature Sensor Range/Performance Bank 2
P0437	Catalyst Temperature Sensor Low Bank 2
P0438	Catalyst Temperature Sensor High Bank 2
P0439	Catalyst Heater Control Circuit Bank 2
P0440	Evaporative Emission System
P0441	Evaporative Emission System Incorrect Purge Flow
P0442	Evaporative Emission System Leak Detected (small leak)
P0443	Evaporative Emission System Purge Control Valve Circuit
P0444	Evaporative Emission System Purge Control Valve Circuit Open
P0445	Evaporative Emission System Purge Control Valve Circuit Shorted
P0446	Evaporative Emission System Vent Control Circuit
P0447	Evaporative Emission System Vent Control Circuit Open
P0448	Evaporative Emission System Vent Control Circuit Shorted
P0449	Evaporative Emission System Vent Valve/Solenoid Circuit

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P0450	Evaporative Emission System Pressure Sensor/Switch
P0451	Evaporative Emission System Pressure Sensor/Switch Range/Performance
P0452	Evaporative Emission System Pressure Sensor/Switch Low
P0453	Evaporative Emission System Pressure Sensor/Switch High
P0454	Evaporative Emission System Pressure Sensor/Switch Intermittent
P0455	Evaporative Emission System Leak Detected (large leak)
P0456	Evaporative Emission System Leak Detected (very small leak)
P0457	Evaporative Emission System Leak Detected - fuel cap loose/off
P0458	Evaporative Emission System Purge Control Valve Circuit Low
P0459	Evaporative Emission System Purge Control Valve Circuit High
P0460	Fuel Level Sensor "A" Circuit
P0461	Fuel Level Sensor "A" Circuit Range/Performance
P0462	Fuel Level Sensor "A" Circuit Low
P0463	Fuel Level Sensor "A" Circuit High
P0464	Fuel Level Sensor "A" Circuit Intermittent
P0465	EVAP Purge Flow Sensor Circuit
P0466	EVAP Purge Flow Sensor Circuit Range/Performance
P0467	EVAP Purge Flow Sensor Circuit Low
P0468	EVAP Purge Flow Sensor Circuit High
P0469	EVAP Purge Flow Sensor Circuit Intermittent
P0470	Exhaust Pressure Sensor
P0471	Exhaust Pressure Sensor Range/Performance
P0472	Exhaust Pressure Sensor Low
P0473	Exhaust Pressure Sensor High
P0474	Exhaust Pressure Sensor Intermittent
P0475	Exhaust Pressure Control Valve
P0476	Exhaust Pressure Control Valve Range/Performance
P0477	Exhaust Pressure Control Valve Low
P0478	Exhaust Pressure Control Valve High
P0479	Exhaust Pressure Control Valve Intermittent
P0480	Fan 1 Control Circuit
P0481	Fan 2 Control Circuit
P0482	Fan 3 Control Circuit
P0483	Fan Rationality Check
P0484	Fan Circuit Over Current
P0485	Fan Power/Ground Circuit
P0486	Exhaust Gas Recirculation Sensor "B" Circuit
P0487	Exhaust Gas Recirculation Throttle Position Control Circuit
P0488	Exhaust Gas Recirculation Throttle Position Control Range/Performance
P0489	Exhaust Gas Recirculation Control Circuit Low
P0490	Exhaust Gas Recirculation Control Circuit High
P0491	Secondary Air Injection System Insufficient Flow Bank 1
P0492	Secondary Air Injection System Insufficient Flow Bank 2
P0493	Fan Overspeed
P0494	Fan Speed Low
P0495	Fan Speed High
P0496	Evaporative Emission System High Purge Flow
P0497	Evaporative Emission System Low Purge Flow
P0498	Evaporative Emission System Vent Valve Control Circuit Low
P0499	Evaporative Emission System Vent Valve Control Circuit High
P0500	Vehicle Speed Sensor "A"
P0501	Vehicle Speed Sensor "A" Range/Performance
P0502	Vehicle Speed Sensor "A" Circuit Low Input
P0503	Vehicle Speed Sensor "A" Intermittent/Erratic/High
P0504	Brake Switch "A"/"B" Correlation
P0505	Idle Air Control System

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P0506	Idle Air Control System RPM Lower Than Expected
P0507	Idle Air Control System RPM Higher Than Expected
P0508	Idle Air Control System Circuit Low
P0509	Idle Air Control System Circuit High
P0510	Closed Throttle Position Switch
P0511	Idle Air Control Circuit
P0512	Starter Request Circuit
P0513	Incorrect Immobilizer Key
P0514	Battery Temperature Sensor Circuit Range/Performance
P0515	Battery Temperature Sensor Circuit
P0516	Battery Temperature Sensor Circuit Low
P0517	Battery Temperature Sensor Circuit High
P0518	Idle Air Control Circuit Intermittent
P0519	Idle Air Control System Performance
P0520	Engine Oil Pressure Sensor/Switch Circuit
P0521	Engine Oil Pressure Sensor/Switch Range/Performance
P0522	Engine Oil Pressure Sensor/Switch Low Voltage
P0523	Engine Oil Pressure Sensor/Switch High Voltage
P0524	Engine Oil Pressure Too Low
P0525	Cruise Control Servo Control Circuit Range/Performance
P0526	Fan Speed Sensor Circuit
P0527	Fan Speed Sensor Circuit Range/Performance
P0528	Fan Speed Sensor Circuit No Signal
P0529	Fan Speed Sensor Circuit Intermittent
P0530	A/C Refrigerant Pressure Sensor "A" Circuit
P0531	A/C Refrigerant Pressure Sensor "A" Circuit Range/Performance
P0532	A/C Refrigerant Pressure Sensor "A" Circuit Low
P0533	A/C Refrigerant Pressure Sensor "A" Circuit High
P0534	Air Conditioner Refrigerant Charge Loss
P0535	A/C Evaporator Temperature Sensor Circuit
P0536	A/C Evaporator Temperature Sensor Circuit Range/Performance
P0537	A/C Evaporator Temperature Sensor Circuit Low
P0538	A/C Evaporator Temperature Sensor Circuit High
P0539	A/C Evaporator Temperature Sensor Circuit Intermittent
P0540	Intake Air Heater "A" Circuit
P0541	Intake Air Heater "A" Circuit Low
P0542	Intake Air Heater "A" Circuit High
P0543	Intake Air Heater "A" Circuit Open
P0544	Exhaust Gas Temperature Sensor Circuit Bank 1 Sensor 1
P0545	Exhaust Gas Temperature Sensor Circuit Low Bank 1 Sensor 1
P0546	Exhaust Gas Temperature Sensor Circuit High Bank 1 Sensor 1
P0547	Exhaust Gas Temperature Sensor Circuit Bank 2 Sensor 1
P0548	Exhaust Gas Temperature Sensor Circuit Low Bank 2 Sensor 1
P0549	Exhaust Gas Temperature Sensor Circuit High Bank 2 Sensor 1
P0550	Power Steering Pressure Sensor/Switch Circuit
P0551	Power Steering Pressure Sensor/Switch Circuit Range/Performance
P0552	Power Steering Pressure Sensor/Switch Circuit Low Input
P0553	Power Steering Pressure Sensor/Switch Circuit High Input
P0554	Power Steering Pressure Sensor/Switch Circuit Intermittent
P0555	Brake Booster Pressure Sensor Circuit
P0556	Brake Booster Pressure Sensor Circuit Range/Performance
P0557	Brake Booster Pressure Sensor Circuit Low Input
P0558	Brake Booster Pressure Sensor Circuit High Input
P0559	Brake Booster Pressure Sensor Circuit Intermittent
P0560	System Voltage
P0561	System Voltage Unstable

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P0562	System Voltage Low
P0563	System Voltage High
P0564	Cruise Control Multi-Function Input "A" Circuit
P0565	Cruise Control On Signal
P0566	Cruise Control Off Signal
P0567	Cruise Control Resume Signal
P0568	Cruise Control Set Signal
P0569	Cruise Control Coast Signal
P0570	Cruise Control Accelerate Signal
P0571	Brake Switch "A" Circuit
P0572	Brake Switch "A" Circuit Low
P0573	Brake Switch "A" Circuit High
P0574	Cruise Control System - Vehicle Speed Too High
P0575	Cruise Control Input Circuit
P0576	Cruise Control Input Circuit Low
P0577	Cruise Control Input Circuit High
P0578	Cruise Control Multi-Function Input "A" Circuit Stuck
P0579	Cruise Control Multi-Function Input "A" Circuit Range/Performance
P0580	Cruise Control Multi-Function Input "A" Circuit Low
P0581	Cruise Control Multi-Function Input "A" Circuit High
P0582	Cruise Control Vacuum Control Circuit/Open
P0583	Cruise Control Vacuum Control Circuit Low
P0584	Cruise Control Vacuum Control Circuit High
P0585	Cruise Control Multi-Function Input "A"/"B" Correlation
P0586	Cruise Control Vent Control Circuit/Open
P0587	Cruise Control Vent Control Circuit Low
P0588	Cruise Control Vent Control Circuit High
P0589	Cruise Control Multi-Function Input "B" Circuit
P0590	Cruise Control Multi-Function Input "B" Circuit Stuck
P0591	Cruise Control Multi-Function Input "B" Circuit Range/Performance
P0592	Cruise Control Multi-Function Input "B" Circuit Low
P0593	Cruise Control Multi-Function Input "B" Circuit High
P0594	Cruise Control Servo Control Circuit/Open
P0595	Cruise Control Servo Control Circuit Low
P0596	Cruise Control Servo Control Circuit High
P0597	Thermostat Heater Control Circuit/Open
P0598	Thermostat Heater Control Circuit Low
P0599	Thermostat Heater Control Circuit High
P0600	Serial Communication Link
P0601	Internal Control Module Memory Check Sum Error
P0602	Control Module Programming Error
P0603	Internal Control Module Keep Alive Memory (KAM) Error
P0604	Internal Control Module Random Access Memory (RAM) Error
P0605	Internal Control Module Read Only Memory (ROM) Error
P0606	ECM/PCM Processor
P0607	Control Module Performance
P0608	Control Module VSS Output "A"
P0609	Control Module VSS Output "B"
P0610	Control Module Vehicle Options Error
P0611	Fuel Injector Control Module Performance
P0612	Fuel Injector Control Module Relay Control
P0613	TCM Processor
P0614	ECM / TCM Incompatible
P0615	Starter Relay Circuit
P0616	Starter Relay Circuit Low
P0617	Starter Relay Circuit High

P0618	Alternative Fuel Control Module KAM Error
P0619	Alternative Fuel Control Module RAM/ROM Error
P0620	Generator Control Circuit
P0621	Generator Lamp/L Terminal Circuit
P0622	Generator Field/F Terminal Circuit
P0623	Generator Lamp Control Circuit
P0624	Fuel Cap Lamp Control Circuit
P0625	Generator Field/F Terminal Circuit Low
P0626	Generator Field/F Terminal Circuit High
P0627	Fuel Pump "A" Control Circuit /Open
P0628	Fuel Pump "A" Control Circuit Low
P0629	Fuel Pump "A" Control Circuit High
P0630	VIN Not Programmed or Incompatible – ECM/PCM
P0631	VIN Not Programmed or Incompatible – TCM
P0632	Odometer Not Programmed – ECM/PCM
P0633	Immobilizer Key Not Programmed – ECM/PCM
P0634	PCM/ECM/TCM Internal Temperature Too High
P0635	Power Steering Control Circuit
P0636	Power Steering Control Circuit Low
P0637	Power Steering Control Circuit High
P0638	Throttle Actuator Control Range/Performance Bank 1
P0639	Throttle Actuator Control Range/Performance Bank 2
P0640	Intake Air Heater Control Circuit
P0641	Sensor Reference Voltage "A" Circuit/Open
P0642	Sensor Reference Voltage "A" Circuit Low
P0643	Sensor Reference Voltage "A" Circuit High
P0644	Driver Display Serial Communication Circuit
P0645	A/C Clutch Relay Control Circuit
P0646	A/C Clutch Relay Control Circuit Low
P0647	A/C Clutch Relay Control Circuit High
P0648	Immobilizer Lamp Control Circuit
P0649	Speed Control Lamp Control Circuit
P0650	Malfunction Indicator Lamp (MIL) Control Circuit
P0651	Sensor Reference Voltage "B" Circuit/Open
P0652	Sensor Reference Voltage "B" Circuit Low
P0653	Sensor Reference Voltage "B" Circuit High
P0654	Engine RPM Output Circuit
P0655	Engine Hot Lamp Output Control Circuit
P0656	Fuel Level Output Circuit
P0657	Actuator Supply Voltage "A" Circuit/Open
P0658	Actuator Supply Voltage "A" Circuit Low
P0659	Actuator Supply Voltage "A" Circuit High
P0660	Intake Manifold Tuning Valve Cntrl Circuit/Open Bank 1
P0661	Intake Manifold Tuning Valve Cntrl Circuit Low Bank 1
P0662	Intake Manifold Tuning Valve Cntrl Circuit High Bank 1
P0663	Intake Manifold Tuning Valve Cntrl Circuit/Open Bank 2
P0664	Intake Manifold Tuning Valve Cntrl Circuit Low Bank 2
P0665	Intake Manifold Tuning Valve Cntrl Circuit High Bank 2
P0666	PCM/ECM/TCM Internal Temperature Sensor Circuit
P0667	PCM/ECM/TCM Internal Temperature Sensor Range/Performance
P0668	PCM/ECM/TCM Internal Temperature Sensor Circuit Low
P0669	PCM/ECM/TCM Internal Temperature Sensor Circuit High
P0670	Glow Plug Module Control Circuit
P0671	Cylinder 1 Glow Plug Circuit
P0672	Cylinder 2 Glow Plug Circuit
P0673	Cylinder 3 Glow Plug Circuit

P0674	Cylinder 4 Glow Plug Circuit
P0675	Cylinder 5 Glow Plug Circuit
P0676	Cylinder 6 Glow Plug Circuit
P0677	Cylinder 7 Glow Plug Circuit
P0678	Cylinder 8 Glow Plug Circuit
P0679	Cylinder 9 Glow Plug Circuit
P0680	Cylinder 10 Glow Plug Circuit
P0681	Cylinder 11 Glow Plug Circuit
P0682	Cylinder 12 Glow Plug Circuit
P0683	Glow Plug Control Module to PCM Communication Circuit
P0684	Glow Plug Control Module to PCM Communication Circuit Range/Performance
P0685	ECM/PCM Power Relay Control Circuit /Open
P0686	ECM/PCM Power Relay Control Circuit Low
P0687	ECM/PCM Power Relay Control Circuit High
P0688	ECM/PCM Power Relay Sense Circuit /Open
P0689	ECM/PCM Power Relay Sense Circuit Low
P0690	ECM/PCM Power Relay Sense Circuit High
P0691	Fan 1 Control Circuit Low
P0692	Fan 1 Control Circuit High
P0693	Fan 2 Control Circuit Low
P0694	Fan 2 Control Circuit High
P0695	Fan 3 Control Circuit Low
P0696	Fan 3 Control Circuit High
P0697	Sensor Reference Voltage "C" Circuit/Open
P0698	Sensor Reference Voltage "C" Circuit Low
P0699	Sensor Reference Voltage "C" Circuit High
P0700	Transmission Control System (MIL Request)
P0701	Transmission Control System Range/Performance
P0702	Transmission Control System Electrical
P0703	Brake Switch "B" Circuit
P0704	Clutch Switch Input Circuit Malfunction
P0705	Transmission Range Sensor Circuit Malfunction (PRNDL Input)
P0706	Transmission Range Sensor Circuit Range/Performance
P0707	Transmission Range Sensor Circuit Low
P0708	Transmission Range Sensor Circuit High
P0709	Transmission Range Sensor Circuit Intermittent
P0710	Transmission Fluid Temperature Sensor "A" Circuit
P0711	Transmission Fluid Temperature Sensor "A" Circuit Range/Performance
P0712	Transmission Fluid Temperature Sensor "A" Circuit Low
P0713	Transmission Fluid Temperature Sensor "A" Circuit High
P0714	Transmission Fluid Temperature Sensor "A" Circuit Intermittent
P0715	Input/Turbine Speed Sensor "A" Circuit
P0716	Input/Turbine Speed Sensor "A" Circuit Range/Performance
P0717	Input/Turbine Speed Sensor "A" Circuit No Signal
P0718	Input/Turbine Speed Sensor "A" Circuit Intermittent
P0719	Brake Switch "B" Circuit Low
P0720	Output Speed Sensor Circuit
P0721	Output Speed Sensor Circuit Range/Performance
P0722	Output Speed Sensor Circuit No Signal
P0723	Output Speed Sensor Circuit Intermittent
P0724	Brake Switch "B" Circuit High
P0725	Engine Speed Input Circuit
P0726	Engine Speed Input Circuit Range/Performance
P0727	Engine Speed Input Circuit No Signal
P0728	Engine Speed Input Circuit Intermittent
P0729	Gear 6 Incorrect Ratio

P0730	Incorrect Gear Ratio
P0731	Gear 1 Incorrect Ratio
P0732	Gear 2 Incorrect Ratio
P0733	Gear 3 Incorrect Ratio
P0734	Gear 4 Incorrect Ratio
P0735	Gear 5 Incorrect Ratio
P0736	Reverse Incorrect Ratio
P0737	TCM Engine Speed Output Circuit
P0738	TCM Engine Speed Output Circuit Low
P0739	TCM Engine Speed Output Circuit High
P0740	Torque Converter Clutch Circuit/Open
P0741	Torque Converter Clutch Circuit Performance or Stuck Off
P0742	Torque Converter Clutch Circuit Stuck On
P0743	Torque Converter Clutch Circuit Electrical
P0744	Torque Converter Clutch Circuit Intermittent
P0745	Pressure Control Solenoid "A"
P0746	Pressure Control Solenoid "A" Performance or Stuck Off
P0747	Pressure Control Solenoid "A" Stuck On
P0748	Pressure Control Solenoid "A" Electrical
P0749	Pressure Control Solenoid "A" Intermittent
P0750	Shift Solenoid "A"
P0751	Shift Solenoid "A" Performance or Stuck Off
P0752	Shift Solenoid "A" Stuck On
P0753	Shift Solenoid "A" Electrical
P0754	Shift Solenoid "A" Intermittent
P0755	Shift Solenoid "B"
P0756	Shift Solenoid "B" Performance or Stuck Off
P0757	Shift Solenoid "B" Stuck On
P0758	Shift Solenoid "B" Electrical
P0759	Shift Solenoid "B" Intermittent
P0760	Shift Solenoid "C"
P0761	Shift Solenoid "C" Performance or Stuck Off
P0762	Shift Solenoid "C" Stuck On
P0763	Shift Solenoid "C" Electrical
P0764	Shift Solenoid "C" Intermittent
P0765	Shift Solenoid "D"
P0766	Shift Solenoid "D" Performance or Stuck Off
P0767	Shift Solenoid "D" Stuck On
P0768	Shift Solenoid "D" Electrical
P0769	Shift Solenoid "D" Intermittent
P0770	Shift Solenoid "E"
P0771	Shift Solenoid "E" Performance or Stuck Off
P0772	Shift Solenoid "E" Stuck On
P0773	Shift Solenoid "E" Electrical
P0774	Shift Solenoid "E" Intermittent
P0775	Pressure Control Solenoid "B"
P0776	Pressure Control Solenoid "B" Performance or Stuck off
P0777	Pressure Control Solenoid "B" Stuck On
P0778	Pressure Control Solenoid "B" Electrical
P0779	Pressure Control Solenoid "B" Intermittent
P0780	Shift Error
P0781	1-2 Shift
P0782	2-3 Shift
P0783	3-4 Shift
P0784	4-5 Shift
P0785	Shift/Timing Solenoid

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P0786	Shift/Timing Solenoid Range/Performance
P0787	Shift/Timing Solenoid Low
P0788	Shift/Timing Solenoid High
P0789	Shift/Timing Solenoid Intermittent
P0790	Normal/Performance Switch Circuit
P0791	Intermediate Shaft Speed Sensor "A" Circuit
P0792	Intermediate Shaft Speed Sensor "A" Circuit Range/Performance
P0793	Intermediate Shaft Speed Sensor "A" Circuit No Signal
P0794	Intermediate Shaft Speed Sensor "A" Circuit Intermittent
P0795	Pressure Control Solenoid "C"
P0796	Pressure Control Solenoid "C" Performance or Stuck off
P0797	Pressure Control Solenoid "C" Stuck On
P0798	Pressure Control Solenoid "C" Electrical
P0799	Pressure Control Solenoid "C" Intermittent
P0800	Transfer Case Control System (MIL Request)
P0801	Reverse Inhibit Control Circuit
P0802	Transmission Control System MIL Request Circuit/Open
P0803	1-4 Upshift (Skip Shift) Solenoid Control Circuit
P0804	1-4 Upshift (Skip Shift) Lamp Control Circuit
P0805	Clutch Position Sensor Circuit
P0806	Clutch Position Sensor Circuit Range/Performance
P0807	Clutch Position Sensor Circuit Low
P0808	Clutch Position Sensor Circuit High
P0809	Clutch Position Sensor Circuit Intermittent
P0810	Clutch Position Control Error
P0811	Excessive Clutch Slippage
P0812	Reverse Input Circuit
P0813	Reverse Output Circuit
P0814	Transmission Range Display Circuit
P0815	Upshift Switch Circuit
P0816	Downshift Switch Circuit
P0817	Starter Disable Circuit
P0818	Driveline Disconnect Switch Input Circuit
P0819	Up and Down Shift Switch to Transmission Range Correlation
P0820	Gear Lever X-Y Position Sensor Circuit
P0821	Gear Lever X Position Circuit
P0822	Gear Lever Y Position Circuit
P0823	Gear Lever X Position Circuit Intermittent
P0824	Gear Lever Y Position Circuit Intermittent
P0825	Gear Lever Push-Pull Switch (Shift Anticipate)
P0826	Up and Down Shift Switch Circuit
P0827	Up and Down Shift Switch Circuit Low
P0828	Up and Down Shift Switch Circuit High
P0829	5-6 Shift
P0830	Clutch Pedal Switch "A" Circuit
P0831	Clutch Pedal Switch "A" Circuit Low
P0832	Clutch Pedal Switch "A" Circuit High
P0833	Clutch Pedal Switch "B" Circuit
P0834	Clutch Pedal Switch "B" Circuit Low
P0835	Clutch Pedal Switch "B" Circuit High
P0836	Four Wheel Drive (4WD) Switch Circuit
P0837	Four Wheel Drive (4WD) Switch Circuit Range/Performance
P0838	Four Wheel Drive (4WD) Switch Circuit Low
P0839	Four Wheel Drive (4WD) Switch Circuit High
P0840	Transmission Fluid Pressure Sensor/Switch "A" Circuit
P0841	Transmission Fluid Pressure Sensor/Switch "A" Circuit Range/Performance

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P0842	Transmission Fluid Pressure Sensor/Switch "A" Circuit Low
P0843	Transmission Fluid Pressure Sensor/Switch "A" Circuit High
P0844	Transmission Fluid Pressure Sensor/Switch "A" Circuit Intermittent
P0845	Transmission Fluid Pressure Sensor/Switch "B" Circuit
P0846	Transmission Fluid Pressure Sensor/Switch "B" Circuit Range/Performance
P0847	Transmission Fluid Pressure Sensor/Switch "B" Circuit Low
P0848	Transmission Fluid Pressure Sensor/Switch "B" Circuit High
P0849	Transmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent
P0850	Park/Neutral Switch Input Circuit
P0851	Park/Neutral Switch Input Circuit Low
P0852	Park/Neutral Switch Input Circuit High
P0853	Drive Switch Input Circuit
P0854	Drive Switch Input Circuit Low
P0855	Drive Switch Input Circuit High
P0856	Traction Control Input Signal
P0857	Traction Control Input Signal Range/Performance
P0858	Traction Control Input Signal Low
P0859	Traction Control Input Signal High
P0860	Gear Shift Module Communication Circuit
P0861	Gear Shift Module Communication Circuit Low
P0862	Gear Shift Module Communication Circuit High
P0863	TCM Communication Circuit
P0864	TCM Communication Circuit Range/Performance
P0865	TCM Communication Circuit Low
P0866	TCM Communication Circuit High
P0867	Transmission Fluid Pressure
P0868	Transmission Fluid Pressure Low
P0869	Transmission Fluid Pressure High
P0870	Transmission Fluid Pressure Sensor/Switch "C" Circuit
P0871	Transmission Fluid Pressure Sensor/Switch "C" Circuit Range/Performance
P0872	Transmission Fluid Pressure Sensor/Switch "C" Circuit Low
P0873	Transmission Fluid Pressure Sensor/Switch "C" Circuit High
P0874	Transmission Fluid Pressure Sensor/Switch "C" Circuit Intermittent
P0875	Transmission Fluid Pressure Sensor/Switch "D" Circuit
P0876	Transmission Fluid Pressure Sensor/Switch "D" Circuit Range/Performance
P0877	Transmission Fluid Pressure Sensor/Switch "D" Circuit Low
P0878	Transmission Fluid Pressure Sensor/Switch "D" Circuit High
P0879	Transmission Fluid Pressure Sensor/Switch "D" Circuit Intermittent
P0880	TCM Power Input Signal
P0881	TCM Power Input Signal Range/Performance
P0882	TCM Power Input Signal Low
P0883	TCM Power Input Signal High
P0884	TCM Power Input Signal Intermittent
P0885	TCM Power Relay Control Circuit/Open
P0886	TCM Power Relay Control Circuit Low
P0887	TCM Power Relay Control Circuit High
P0888	TCM Power Relay Sense Circuit
P0889	TCM Power Relay Sense Circuit Range/Performance
P0890	TCM Power Relay Sense Circuit Low
P0891	TCM Power Relay Sense Circuit High
P0892	TCM Power Relay Sense Circuit Intermittent
P0893	Multiple Gears Engaged
P0894	Transmission Component Slipping
P0895	Shift Time Too Short
P0896	Shift Time Too Long
P0897	Transmission Fluid Deteriorated

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P0898	Transmission Control System MIL Request Circuit Low
P0899	Transmission Control System MIL Request Circuit High
P0900	Clutch Actuator Circuit/Open
P0901	Clutch Actuator Circuit Range/Performance
P0902	Clutch Actuator Circuit Low
P0903	Clutch Actuator Circuit High
P0904	Gate Select Position Circuit
P0905	Gate Select Position Circuit Range/Performance
P0906	Gate Select Position Circuit Low
P0907	Gate Select Position Circuit High
P0908	Gate Select Position Circuit Intermittent
P0909	Gate Select Control Error
P0910	Gate Select Actuator Circuit/Open
P0911	Gate Select Actuator Circuit Range/Performance
P0912	Gate Select Actuator Circuit Low
P0913	Gate Select Actuator Circuit High
P0914	Gear Shift Position Circuit
P0915	Gear Shift Position Circuit Range/Performance
P0916	Gear Shift Position Circuit Low
P0917	Gear Shift Position Circuit High
P0918	Gear Shift Position Circuit Intermittent
P0919	Gear Shift Position Control Error
P0920	Gear Shift Forward Actuator Circuit/Open
P0921	Gear Shift Forward Actuator Circuit Range/Performance
P0922	Gear Shift Forward Actuator Circuit Low
P0923	Gear Shift Forward Actuator Circuit High
P0924	Gear Shift Reverse Actuator Circuit/Open
P0925	Gear Shift Reverse Actuator Circuit Range/Performance
P0926	Gear Shift Reverse Actuator Circuit Low
P0927	Gear Shift Reverse Actuator Circuit High
P0928	Gear Shift Lock Solenoid Control Circuit/Open
P0929	Gear Shift Lock Solenoid Control Circuit Range/Performance
P0930	Gear Shift Lock Solenoid Control Circuit Low
P0931	Gear Shift Lock Solenoid Control Circuit High
P0932	Hydraulic Pressure Sensor Circuit
P0933	Hydraulic Pressure Sensor Range/Performance
P0934	Hydraulic Pressure Sensor Circuit Low
P0935	Hydraulic Pressure Sensor Circuit High
P0936	Hydraulic Pressure Sensor Circuit Intermittent
P0937	Hydraulic Oil Temperature Sensor Circuit
P0938	Hydraulic Oil Temperature Sensor Range/Performance
P0939	Hydraulic Oil Temperature Sensor Circuit Low
P0940	Hydraulic Oil Temperature Sensor Circuit High
P0941	Hydraulic Oil Temperature Sensor Circuit Intermittent
P0942	Hydraulic Pressure Unit
P0943	Hydraulic Pressure Unit Cycling Period Too Short
P0944	Hydraulic Pressure Unit Loss of Pressure
P0945	Hydraulic Pump Relay Circuit/Open
P0946	Hydraulic Pump Relay Circuit Range/Performance
P0947	Hydraulic Pump Relay Circuit Low
P0948	Hydraulic Pump Relay Circuit High
P0949	Auto Shift Manual Adaptive Learning Not Complete
P0950	Auto Shift Manual Control Circuit
P0951	Auto Shift Manual Control Circuit Range/Performance
P0952	Auto Shift Manual Control Circuit Low
P0953	Auto Shift Manual Control Circuit High

Gunson Fault Code Reader

P0954	Auto Shift Manual Control Circuit Intermittent
P0955	Auto Shift Manual Mode Circuit
P0956	Auto Shift Manual Mode Circuit Range/Performance
P0957	Auto Shift Manual Mode Circuit Low
P0958	Auto Shift Manual Mode Circuit High
P0959	Auto Shift Manual Mode Circuit Intermittent
P0960	Pressure Control Solenoid "A" Control Circuit/Open
P0961	Pressure Control Solenoid "A" Control Circuit Range/Performance
P0962	Pressure Control Solenoid "A" Control Circuit Low
P0963	Pressure Control Solenoid "A" Control Circuit High
P0964	Pressure Control Solenoid "B" Control Circuit/Open
P0965	Pressure Control Solenoid "B" Control Circuit Range/Performance
P0966	Pressure Control Solenoid "B" Control Circuit Low
P0967	Pressure Control Solenoid "B" Control Circuit High
P0968	Pressure Control Solenoid "C" Control Circuit/Open
P0969	Pressure Control Solenoid "C" Control Circuit Range/Performance
P0970	Pressure Control Solenoid "C" Control Circuit Low
P0971	Pressure Control Solenoid "C" Control Circuit High
P0972	Shift Solenoid "A" Control Circuit Range/Performance
P0973	Shift Solenoid "A" Control Circuit Low
P0974	Shift Solenoid "A" Control Circuit High
P0975	Shift Solenoid "B" Control Circuit Range/Performance
P0976	Shift Solenoid "B" Control Circuit Low
P0977	Shift Solenoid "B" Control Circuit High
P0978	Shift Solenoid "C" Control Circuit Range/Performance
P0979	Shift Solenoid "C" Control Circuit Low
P0980	Shift Solenoid "C" Control Circuit High
P0981	Shift Solenoid "D" Control Circuit Range/Performance
P0982	Shift Solenoid "D" Control Circuit Low
P0983	Shift Solenoid "D" Control Circuit High
P0984	Shift Solenoid "E" Control Circuit Range/Performance
P0985	Shift Solenoid "E" Control Circuit Low
P0986	Shift Solenoid "E" Control Circuit High
P0987	Transmission Fluid Pressure Sensor/Switch "E" Circuit
P0988	Transmission Fluid Pressure Sensor/Switch "E" Circuit Range/Performance
P0989	Transmission Fluid Pressure Sensor/Switch "E" Circuit Low
P0990	Transmission Fluid Pressure Sensor/Switch "E" Circuit High
P0991	Transmission Fluid Pressure Sensor/Switch "E" Circuit Intermittent
P0992	Transmission Fluid Pressure Sensor/Switch "F" Circuit
P0993	Transmission Fluid Pressure Sensor/Switch "F" Circuit Range/Performance
P0994	Transmission Fluid Pressure Sensor/Switch "F" Circuit Low
P0995	Transmission Fluid Pressure Sensor/Switch "F" Circuit High
P0996	Transmission Fluid Pressure Sensor/Switch "F" Circuit Intermittent
P0997	Shift Solenoid "F" Control Circuit Range/Performance
P0998	Shift Solenoid "F" Control Circuit Low
P0999	Shift Solenoid "F" Control Circuit High

6. Vehicle application list

Alfa Romeo

Model	Engine	Code	Age
145	1.6 T Spark	All	2001-
145	1.8 16v T Spark	All	2001-
145	2.0 Cloverleaf	All	2001-
146	1.6 T Spark	All	2001-
146	1.8 T Spark 16v	All	2001-
147	1.6 T Spark	All	2001-
147	2.0 T Spark	All	2001-
156	1.6 T Spark	All	2001-
156	1.8 T Spark	All	2001-
156	2.0 T Spark	All	2001-
156	2.5 V6 24v	All	2001-
166	2.0 T Spark 16v	All	2001-
166	2.5 V6 24v	All	2001-
166	3.0 V6 24v	All	2001-
GTV	2.0 T Spark	All	2001-
GTV	3.0 V6 6-Speed	All	2001-
GTV	Spider	All	2001-
Sportwagon	1.6 T Spark	All	2001-
Sportwagon	1.8 T Spark	All	2001-
Sportwagon	2.0 T Spark	All	2001-
Sportwagon	2.5 V6 24v	All	2001-

Audi

Model	Engine	Code	Age
A2	1.4 SE	All	2001-
A3	1.6i	All	2001-
A3	1.8	All	2001-
A3	1.8 T Quattro Sport	All	2001-
A3	1.8 T Sport	All	2001-
A3	1.8i	All	2001-
A3	1.8i 5V	All	2001-
A3	S3 Quattro	All	2001-
A4	1.8 T Sport	All	2001-
A4	1.8i	All	2001-
A4	1.8 T Quattro Sport	All	2001-
A4	1.9 Tdi	All	2001-
A4	2.4 SE	All	2001-
A4	2.8 Quattro	All	2001-
A4 Avant	1.6	All	2001-
A4 Avant	1.8 SE	All	2001-
A4 Avant	1.8 T Sport	All	2001-
A4 Avant	1.8 T Quattro	All	2001-
A4 Avant	2.4 SE	All	2001-
A4 Avant	2.8 Quattro	All	2001-
A4 Avant	RS4 Quattro	All	2001-
A4 Avant	S4 Quattro	All	2001-
A4	S4 Quattro	All	2001-

A6	1.8T SE Quattro	All	2001-
A6	2.0i	All	2001-
A6	2.4	All	2001-
A6	2.4 SE Quattro	All	2001-
A6	2.6i	All	2001-
A6	2.7T Quattro Sport	All	2001-
A6	2.8 Quattro Sport	All	2001-
A6	4.2 Quattro Sport	All	2001-
A6 Avant	1.8T	All	2001-
A6 Avant	1.8T Quattro	All	2001-
A6 Avant	2.4 SE	All	2001-
A6 Avant	2.4 SE Quattro	All	2001-
A6 Avant	2.7T Quattro	All	2001-
A6 Avant	2.8 Quattro	All	2001-
A6 Avant	4.2 Quattro	All	2001-
A6 Avant	S6 Quattro	All	2001-
A6	S6 Quattro	All	2001-
A8	2.8 sport	All	2001-
A8	2.8i	All	2001-
A8	3.7 Quattro	All	2001-
A8	3.7 Quattro Sport	All	2001-
A8	4.2 Quattro	All	2001-
A8	4.2 Quattro Sport	All	2001-
A8	S8 Quattro	All	2001-
Allroad	2.7T Quattro	All	2001-
Cabriolet	1.8 Final Edition	All	2001-
Cabriolet	2.6 Final Edition	All	2001-
Cabriolet	2.8 Final Edition	All	2001-
TT Quattro	1.8T coupe	All	2001-
TT Quattro	1.8T roadster	All	2001-

BMW

Model	Engine	Code	Age
3 Series	316i Compact	All	2001-
3 Series	316i SE	All	2001-
3 Series	316i SE Compact	All	2001-
3 Series	316i Sport Compact	All	2001-
3 Series	318Ci Coupe	All	2001-
3 Series	318i	All	2001-
3 Series	318i SE	All	2001-
3 Series	318ti Compact	All	2001-
3 Series	318ti SE Compact	All	2001-
3 Series	318ti Sport Compact	All	2001-
3 Series	320Ci Convertible	All	2001-
3 Series	320Ci Coupe	All	2001-
3 Series	320i SE	All	2001-
3 Series	323i Compact	All	2001-
3 Series	325Ci Convertible	All	2001-
3 Series	325Ci Coupe	All	2001-
3 Series	325Ci Sport Conv	All	2001-
3 Series	325Ci Sport Coupe	All	2001-
3 Series	325i SE	All	2001-
3 Series	325i Sport	All	2001-
3 Series	330Ci Convertible	All	2001-
3 Series	330Ci Coupe	All	2001-
3 Series	330Ci Sport Conv	All	2001-
3 Series	330Ci Sport Coupe	All	2001-

3 Series	330i	All	2000-
3 Series	330i SE	All	2001-
3 Series	330i Sport	All	2001-
3 Series	M3 3.2	All	2000-
3 Series	M3 3.2	All	2001-
5 Series	520i	All	2001-
5 Series	525i	All	2001-
5 Series	530i	All	2001-
5 Series	535i	All	2001-
5 Series	540i	All	2001-
5 Series	M5		1999
5 Series	M5	All	2001-
7 Series	735i	All	2001-
7 Series	740iL	All	2001-
7 Series	750i	All	2001-
7 Series	750i (E38)	All	2001-
7 Series	750iL	All	2001-
X5	3.0i	All	2001-
X5	4.4i	All	2001-
Z3	1.8i	All	2001-
Z3	2.2i	All	2001-
Z3	3.0i	All	2001-
Z3	M	All	2001-
Z3	M Coupe	All	2001-
Z8		All	2001-

Chrysler

Model	Engine	Code	Age
Neon	2.0	All	2001-
Neon	2.0 SE		1995
PT Cruiser		All	2001-
Voyager	2.0 LE	All	2001-
Voyager	2.0 SE	All	2001-
Voyager	3.3 LE	All	2001-
Voyager Grand	3.3 LE	All	2001-
Voyager Grand	3.3 LX	All	2001-

Citroen

Model	Engine	Code	Age
Berlingo	1.4i Forte	All	2001-
Berlingo	1.8i Forte	All	2001-
Saxo	1.0 First	All	2001-
Saxo	1.1	All	2001-
Saxo	1.4	All	2001-
Saxo	1.6i	All	2001-
Synergie	2.0i 16v	All	2001-
Xantia	1.8i 16v	All	2001-
Xsara	1.4i	All	2001-
Xsara	1.6i 16v	All	2001-

Xsara	2.0 16v	All	2001-
Daewoo			
Model	Engine	Code	Age
Korando	2.3	All	2001-
Lanos	1.4 SE	All	2001-
Lanos	1.4s	All	2001-
Lanos	1.6 SX	All	2001-
Leganza	2.0CDX	All	2001-
Leganza	2.0CDX-E	All	2001-
Leganza	2.0SX	All	2001-
Matiz	SE	All	2001-
Matiz	SE+	All	2001-
Musso	2.3	All	2001-
Nubira	1.6 SE	All	2001-
Nubira	2.0 CDX	All	2001-
Nubira Estate	1.6 SE	All	2001-
Nubira Estate	2.0 CDX	All	2001-
Tacuma	1.8SE	All	2001-
Tacuma	2.0CDX	All	2001-

Fiat

Model	Engine	Code	Age
Barchetta		All	2001-
Brava	100 16v	All	2001-
Brava	80 16v SX	All	2001-
Bravo	2.0 20v	All	2001-
Marea	100 16v	All	2001-
Marea	150 20v	All	2001-
Marea Weekend	100 16v	All	2001-
Marea Weekend	150 20v	All	2001-
Multipla	100 16v	All	2001-
Punto	1.2 16v	All	2001-
Punto	1.2		2000
Punto	1.2	All	2001-
Punto	1.8 16v HGT	All	2001-
Punto	GT	All	2001-
Punto	SX		2000
Seicento		All	2001-
Ulysse	2.0	All	2001-

Ford

Model	Engine	Code	Age
Cougar	2.0i 16v	All	2001-
Cougar	2.5 V6 X	All	2001-
Cougar	2.5i V6	All	2001-

Explorer	XLT	All	2001-
Fiesta	1.25 LX	All	2001-
Fiesta	1.25 Zetec	All	2001-
Fiesta	1.3 Encore	All	2001-
Fiesta	1.3 Finesse	All	2001-
Fiesta	1.4	All	2001-
Fiesta	1.6 Zetec	All	2001-
Focus	1.6 Ghia	All	2001-
Focus	1.6 LX	All	2001-
Focus	1.6i Zetec	All	2001-
Focus	1.8 Endur	All	2001-
Focus	1.8 Ghia	All	2001-
Focus	1.8 LX	All	2001-
Focus	1.8 TDCi Ghia	All	2001-
Focus	1.8 Zetec	All	2001-
Focus	1.8i	EYDB	2001-
Focus	2.0 Ghia	All	2001-
Focus	2.0i Zetec	All	2001-
Galaxy	2.3i 16v Ghia	All	2001-
Galaxy	2.3i 16v LX	All	2001-
Galaxy	2.3i 16v Zetec	All	2001-
Galaxy	2.8i V6 Ghia	All	2001-
Ka	All	All	2001-
Mondeo	1.8i 16v Zetec	All	2001-
Mondeo	2.0i 16v Ghia	All	2001-
Mondeo	2.0i 16v Ghia X	All	2001-
Mondeo	2.0i 16v LX	All	2001-
Mondeo	2.0i 16v Zetec	All	2001-
Mondeo	2.5 Duratec	All	All
Mondeo	2.5i V6 24v Ghia	All	2001-
Mondeo	2.5i V6 24v Zetec	All	2001-
Puma	1.6	All	2001-
Puma	1.7	All	2001-
Honda			
Model	Engine	Code	Age
Accord	1.8i Vetec	All	2001-
Accord	2.0i Vetec	All	2001-
Accord	2.3i Type V	All	2001-
Accord	Type R	All	2001-
Accord	Coupe 2.0i ES	All	2001-
Accord	Coupe 3.0i V6	All	2001-
Civic	1.4i	All	2001-
Civic	1.6i	All	2001-
CR-V	All	All	2001-
HR-V	All	All	2001-
Integra	Type R	All	2001-
Legend	3.5 V6	All	2001-

Logo	1.3i SE	All	2001-
NSX	Coupe	All	2001-
NSX	Coupe F-Matic	All	2001-
NSX	Open top	All	2001-
NSX	Open top F-Matic	All	2001-
S 2000	2.0i	All	2001-
Hyundai			
Model	Engine	Code	Age
Accent	1.3 Gsi	All	2001-
Accent	1.3i	All	2001-
Accent	1.3i	All	99-
Accent	1.5	All	2001-
Amica		All	2001-
Coupe	1.6 SE	All	2001-
Coupe	1.6i	All	2001-
Coupe	2.0 SE	All	2001-
Lantra	1.6 GSi	All	2001-
Lantra	1.6 Si	All	2001-
Lantra	2.0 CDX	All	2001-
Sonata	2.0 CDX	All	2001-
Sonata	2.0 GSi	All	2001-
Sonata	2.5 V6	All	2001-
Trajjet	2.0 Gsi	All	2001-
Trajjet	2.7 V6	All	2001-
Jaguar			
Model	Engine	Code	Age
Daimler	Super V8	All	2001-
Daimler	V8	All	2001-
S-Type	3.0 V6 SE	All	2001-
S-Type	4.0 V8	All	2001-
S-Type	V6	All	2000
S-Type	V6	All	2001-
X-Type	All	All	2001-
XJ6	3.2 Exec	All	2001-
XJ6	3.2 Sport	All	2001-
XJ6	4.0 XJ8	All	2001-
XJ Sovereign	4.0	All	2001-
XJR	4.0 Supercharged	All	2001-
XK8	Convertible	All	2001-
XK8	Coupe	All	2001-
XKR	Coupe	All	2001-

Jeep

Model	Engine	Code	Age
Cherokee	2.5	All	2001-
Cherokee	4.0	All	2001-
Grand Cherokee	4.0 Limited	All	2001-
Grand Cherokee	4.7 V8 Limited	All	2001-
Wrangler	2.5 Sport	All	2001-
Wrangler	4.0	All	2001-

Kia

Model	Engine	Code	Age
Carens		All	2001-
Clarus	1.8	All	2001-
Clarus	2.0	All	2001-
Mentor II	1.5	All	2001-
Sedona	2.5 V6	All	2001-
Shuma	1.5	All	2001-
Shuma	1.8	All	2001-
Sportage	2.0	All	2001-

Landrover

Model	Engine	Code	Age
Defender	110 Country SW	All	2001-
Defender	90 Country SW	All	2001-
Discovery	V8i	All	2001-
Freelander	GS	All	2001-
Freelander	S	All	2001-
Freelander	ES	All	2001-
Freelander	V6i ES	All	2001-
Freelander	V6i GS	All	2001-
Range Rover	4.0 Country	All	2001-
Range Rover	4.0 HSE	All	2001-
Range Rove	4.6 Vogue	All	2001-

Lexus

Model	Engine	Code	Age
GS 300		All	2001-
GS 400		All	2001-
IS 200		All	2001-
LS 430		All	2001-

RX 300		All	2001-
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Mazda

Model	Engine	Code	Age
323	1.3	All	2001-
323	1.5	All	2001-
323	1.8	All	2001-
626	1.8	All	2001-
626	2.0	All	2001-
Demio	1.3	All	2001-
Demio	1.5	All	2001-
MX 5	1.6i	All	2001-
MX 5	1.8i	All	2001-
MX 5	1.8i S	All	2001-
Xedos 9	2.3	All	2001-

Mercedes

Model	Engine	Code	Age
A-Class	140	All	2001-
A-Class	160	All	2001-
A-Class	190	All	2001-
C-Class	C180	All	2001-
C-Class	C200 Kompressor	All	2001-
C-Class	C240	All	2001-
C-Class	C320	All	2001-
CL 500		All	2001-
CL 55 AMG		All	2001-
CL 600		All	2001-
CLK	200K	All	2001-
CLK	230K	All	2001-
CLK	320K	All	2001-
CLK	430	All	2001-
CLK	55 AMG	All	2001-
E-Class	200K	All	2001-
E-Class	240	All	2001-
E-Class	280	All	2001-
E-Class	320	All	2001-

Mercedes Cont'd

Model	Engine	Code	Age
E-Class	430	All	2001-
E-Class	E55 AMG	All	2001-
M-Class	ML 320	All	2001-
M-Class	ML 430	All	2001-
S-Class	280	All	2001-

S-Class	320	All	2001-
S-Class	320 Cdi	All	2001-
S-Class	320 Limousine	All	2001-
S-Class	430	All	2001-
S-Class	430 limousine	All	2001-
S-Class	500	All	2001-
S-Class	500 Limousine	All	2001-
S-Class	600 Limousine	All	2001-
S-Class	S55 AMG	All	2001-

SL	280	All	2001-
SL	320	All	2001-
SL	500	All	2001-
SL	600	All	2001-

SLK	200 Kompressor	All	2001-
SLK	230 Kompressor	All	2001-
SLK	320	All	2001-

V-Class	230 Ambiente	All	2001-
V-Class	230 Trend	All	2001-
V-Class	280 Ambiente	All	2001-

Mitsubishi

Model	Engine	Code	Age
Airtrek	All	All	2001-
Carisma	1.6i	All	2001-
Colt	1.3	All	2001-
Colt	1.6	All	2001-
Galant	2.0	All	2001-
Galant	2.5 V6	All	2001-
Shogun Pinin	1.8i	All	2001-
Shogun Pinin	2.0	All	2001-
Shogun Spt	3.0 V6	All	2001-
Space Star	1.3i	All	2001-

Nissan

Model	Engine	Code	Age
Almera	1.5	All	2000
Almera	1.8	All	2001-
Almera Tino	2.0	All	2001-
Micra	1.0	All	2001-
Micra	1.4	All	2001-
Patrol	GR	All	2001-
Primera	1.6i	All	2001-
Primera	1.8i	All	2001-
Primera	2.0i	All	2001-
QX	2.0 V6	All	2001-
Serena	1.6	All	2001-

Serena	2.0	All	2001-
Skyline	GTR	All	2001-
Terrano	II 2.4i S	All	2001-

OBDII

Model	Engine	Code	Age
All Models	All Variants	All	All

Peugeot

Model	Engine	Code	Age
106	1.1i	All	2001-
106	1.4	All	2001-
106	1.6 16v GTi	All	2001-
206	1.1	All	2001-
206	1.4	All	2001-
206	1.6	All	2001-
206	2.0	All	2001-
206	GTi	10LH02	99/00
306	1.4	All	2001-
306	1.6	All	2001-
306	1.8 16V	All	2001-
306	2.0	All	2001-
406	1.8	All	2001-
406	2.0	All	2001-
406	2.2 16v SRI	All	2001-
406	3.0 V6	All	2001-
406 Coupe	2.0	All	2001-
406 Coupe	3.0 V6	All	2001-
607	2.2	All	2001-
607	3.0 V6	All	2001-
806	2.0 GLX	All	2001-

Renault

Model	Engine	Code	Age
Clio	1.2i (B/C57R)	All	2001-
Clio	1.4 16v	All	2001-
Clio	1.6 16v	All	2001-
Clio	2.0 16v Sport 172	All	2001-
Clio	Sport 3.0	All	2001-
Espace	2.0i TXE (J116)	All	2001-
Espace	2.2i & 4x4	All	2001-
Espace	3.0 V6 RXE	All	2001-
Espace Grand	2.0 16v RT	All	2001-
Espace Grand	3.0 V6 RX	All	2001-
Kangoo	1.4	All	2001-

Laguna	1.8i 16v	All	2001-
Laguna	2.0i 16v	All	2001-
Laguna	3.0i V6	All	2001-
Megane	1.4i	All	2001-
Megane	1.6i	All	2001-
Megane	1.8 16v	All	2001-
Megane	2.0i 16v	All	2001-
Megane Cab	1.6 16v	All	2001-
Megane Cab	2.0 16v	All	2001-
Megane Classic	1.4 16v	All	2001-
Megane Classic	1.6 16v	All	2001-
Megane Classic	1.8 16v	All	2001-
Megane Coupe	1.4i 16v	All	2001-
Megane Coupe	1.6 16V	All	2001-
Megane Coupe	2.0 ide 16v	All	2001-
Scenic	1.4i 16v	All	2001-
Scenic	1.6i 16v	All	2001-
Scenic	1.8 16v	All	2001-
Scenic	2.0i 16v	All	2001-

Rover

Model	Engine	Code	Age
25	1.4i 16v	All	2001-
25	1.6 i 16v	All	2001-
25	1.8 VVC GTi	All	2001-
25	1.8i 16v	All	2001-
45	1.4i 16v	All	2001-
45	1.6i 16v	All	2001-
45	1.8	All	2001-
45	1.8i 16v	All	2001-
45	2.0 V6	All	2001-
75	1.8	All	2001-
75	2.0 V6	All	2001-
75	2.5 V6	All	2001-

Saab

Model	Engine	Code	Age
9-3	2.0 Aero	All	2001-
9-3	2.0 T S	All	2001-
9-3	2.0 HOT	All	2001-
9-3	2.0t	All	2001-
9-3	2.3 Viggen	All	2001-
9-3 Convertible	2.0 Aero	All	2001-
9-3 Convertible	2.0 T SE	All	2001-
9-3 Convertible	2.0HOT SE	All	2001-
9-3 Convertible	2.0t	All	2001-
9-3 Convertible	2.3 Viggen	All	2001-
9-5	2.0t	All	2001-
9-5	2.3 HOT Aero	All	2001-
9-5	2.3t	All	2001-
9-5	3.0t V6	All	2001-
9-5	3.0t V6 Griffin	All	2001-

Seat

Model	Engine	Code	Age
Alhambra	1.8 20v T SE	All	2001-
Alhambra	1.8i	All	2001-
Alhambra	2.0 S	All	2001-
Alhambra	2.8 V6 24v Sport	All	2001-
Arosa	1.0i	All	2001-
Arosa	1.4 16v Sport	All	2001-
Cordoba	1.6 S	All	2001-
Ibiza	1.4i	All	2001-
Ibiza	1.6 Sport	All	2001-
Ibiza	1.6i	All	2001-
Ibiza	1.8 20v T Cupra	All	2001-
Leon	1.4 16v S	All	2001-
Leon	1.6	All	2001-
Leon	1.8 20v SE	All	2001-
Leon	1.8 20vT	All	2001-
Toledo	2.3 V5	All	2001-

Skoda

Model	Engine	Code	Age
Fabia	1.4 16v	All	2001-
Fabia	1.4	All	2001-
Fabia	2.0 Elegance	All	2001-
Felicia	1.3	All	2001-
Octavia	1.4 16v	All	2001-
Octavia	1.6	All	2001-
Octavia	1.8 20v	All	2001-
Octavia	2.0	All	2001-

Subaru

Model	Engine	Code	Age
Forester	2.0	All	2001-
Forester	2.0 S Turbo	All	2001-
Forester	GLS	All	2001-
Impreza	1.6 TS Sports Wag	All	2001-
Impreza	2.0	All	2001-
Impreza	2.0 WRX	All	2001-
Justy	1.3 GX	All	2001-
Lancaster	All	All	2001-
Legacy	2.0	All	2001-
Legacy	2.5	All	2001-
Legacy Outback		All	2001-

Suzuki

Model	Engine	Code	Age
Alto	1.0 GL	All	2001-
Baleno	1.8 16v GSR	All	2001-
Grand Vitara 2.0		All	2001-
Grand Vitara 2.5 V6		All	2001-
Grand Vitara GV200		All	2001-
Ignis	1.3 2WD	All	2001-
Ignis	1.3 4WD	All	2001-
Jimny	JLX	All	2001-
Swift	1.0	All	2001-
Swift	1.3	All	2001-
Vitara	1.6 8v	All	2001-
Wagon R	1.3	All	2001-
Wagon R	1300		2000

Toyota

Model	Engine	Code	Age
Avensis	1.6 VVT-i	All	2001-
Avensis	1.8 VVT-i	All	2001-
Avensis	2.0 VVT-i	All	2001-
Avensis Vermont	1.6 VVT	All	2001-
Avensis Vermont	1.8 VVT	All	2001-
Camry	2.2i 16V	All	2001-
Camry	3.0i V6	All	2001-
Celica	1.8 VVT-i	All	2001-
Celica	1.8 VVT-i 190	All	2001-
Corolla	1.4 GS VVTi		2000
Corolla	1.4 VVT-i	All	2001-
Corolla	1.6 VVT-i	All	2001-
Land Cruiser 4.7		All	2001-
Land Cruiser V6		All	2001-
MR-2	1.8 VVT-i	All	2001-
Picnic		All	2001-
Previa	2.4	All	2001-
Rav-4	1.8	All	2001-
Rav-4	2.0	All	2001-
Yaris	1.0 16v	All	2001-
Yaris	1.0 VVTi		99-2000
Yaris	1.3 16v	All	2001-
Yaris Versio	1.3 VVTi		2000
Yaris Versio	1.3 VVTi	All	2001-
Vauxhall			

Model	Engine	Code	Age
Agila	1.0 12v	All	2001-
Agila	1.2 16v	All	2001-
Astra	1.4 SPI	All	2001-
Astra	1.6 SPI	All	2001-
Astra	1.6i 16v	All	2001-
Astra	1.6i	All	2001-
Astra	1.8i 16v	All	2001-
Astra	2.2 Sri	All	2001-
Astra Coupe	1.8i 16v	All	2001-
Astra Coupe	2.0i 16v Turbo	All	2001-
Astra Coupe	2.2i 16v Bertone	All	2001-

Corsa-B	1.2i	Z12XE	2001
Corsa-B	1.2i 16v	All	2001-
Corsa-B	1.4i 16v	All	2001-
Corsa-B	1.4i MPI	All	2001-
Corsa-B	1.6i MPI	All	2001-
Corsa-B	1.8i 16v	All	2001-

Frontera	2.2 i	All	2001-
Frontera	3.2 V6	All	2001-

Omega	2.0i 16v	All	2001-
Omega	2.2i 16v	All	2001-
Omega	2.5i V6	All	2001-
Omega	2.6i V6 MV6	All	2001-
Omega	3.0i V6 MV6	All	2001-

Tigra	1.6i	All	2001-
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Zafira	1.6 16v	All	2001-
Zafira	1.8 16v	All	2001

Volkswagen

Model	Engine	Code	Age
Beetle	1.6	All	2001-
Beetle	2.0	All	2000-

Bora	1.6	All	2001-
Bora	2.0	APK	1999
Bora	2.0	AQY	2000
Bora	2.0	All	2001-
Bora	2.3 V5	All	2001-
Bora	2.8 V6 4Motion	All	2001-
Bora	V5		2000

Calif/Transp	2.5		2000
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Golf	2.0		2000
Golf	1.4	All	2001-
Golf	1.6	All	2001-
Golf	1.8T Gti	All	2001-
Golf	2.0 Gti	All	2001-
Golf	V5	All	2001-
Golf	V6 4Motion	All	2001-
Golf Cabriol	1.6 SE	All	2001-
Golf Cabriol	1.8 S	All	2001-

Golf Cabriol 2.0		All	2001-
Golf/Vento 2.8		AUE	2000-01
Lupo 1.0i		All	2001-
Lupo 1.4		All	2001-
Lupo Gti 1.6v		All	2001-
Multivan 2.5		AVT	2000
Passat 1.8i		All	2001-
Passat 2.0		All	2001-
Passat 2.3 V5		All	2001-
Passat 2.8 V6 4Motion		All	2001-
Passat 2.8i VR6		All	2001-
Polo 1.4		AUD	2000
Polo 1.4 1.6v		All	2001-
Polo 1.4i		AKP	2000
Polo 1.4i		All	2001-
Polo 1.4i		AUA	2000
Polo 1.4i		AUB	2000
Polo 1.6 Gti		All	2001-
Polo Saloon 1.4		All	2001-
Polo Saloon 1.6		All	2001-
Sharan 1.8T		All	2001-
Sharan 2.0		All	2001-
Sharan 2.8 V6		All	2001-
Sharan 2.8 V6 4Mot		All	2001-

Volvo

Model	Engine	Code	Age
C70	2.0 T	All	2001-
C70	2.4 T	All	2001-
C70	T5	All	2001-
XC	2.4 T	All	2001-
S40	1.8i	All	2001
S40	2.0i	All	2001-
S40	2.0T		1998
S40	2.0 T	All	2001-
S40	T4	All	2001-
S60	2.0 T	All	2001-
S60	2.4 T	All	2001-
S60	T5	All	2001-
S80	2.4	All	2001-
S80	2.9	All	2001-
S80	T6	All	2001-
V40	1.8i	All	2001-
V40	2.0	All	2001-
V40	2.0 T	All	2001-
V40	2.0T		1998
V40	T4	All	2001-
V70	2.4	All	2001-
V70	2.4 T	All	2001-
V70	T5	All	2001-

E & O E – Errors and omissions excepted

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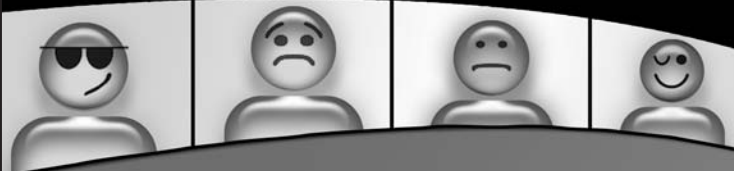
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