

Omitec
OmiCheck
Climate Control

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Omitec Products

Omitec Products

Omitec are a world-leading manufacturer of a wide range of diagnostic products including:

- OmiCheck - A hand held reset tool available with Oil/Service, Airbag and Climate Control applications
- OmiScan - A hand held scan tool to read fault codes, live data and actuator testing. When used with a PC will interface with CAPS Technical Data
- OmiScope - A hand held 4-channel labscope, including autometers and multimeters. An Ignition Analyser option is also available giving access to full ignition diagnostics
- OmiTronic - A PC based Engine Analyser, including a 2-channel labscope
- OmiGas - A 4-Gas analyser, approved for MOT use
- OmiSmoke - A portable diesel smokemeter, approved for MOT use

Details on any of the above products are available from the address on the back cover.

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Safety Instructions

WARNING: Work on air conditioning systems must only be carried out by personnel familiar with both the vehicle system and test equipment.

WARNING: All operations must be carried out in a well ventilated area away from open flame and heat sources.

OmiCheck - Climate Control

Introduction

The OmiCheck Climate Control is a hand held fault code reader which when used in conjunction with the user manual will describe fault codes reported by the vehicles climate control, control module. The fault code reader can also be used to clear fault codes and check for reappearance of fault codes.



This manual will show you how to connect and use your OmiCheck Climate Control Tool and provide you with information on how to locate the diagnostic connector on a variety of different vehicles.

Application List

Audi

Model	Year	Adapter	Switch Position
80/Cabrio/Coupe/Quattro	94 - 96	OM97/15 or OM97/17	A1
100/A6	94 - 97	OM97/15 or OM97/17	A1
A3	96 - 03	OM97/15	A1
A4	95 - 03	OM97/15	A1
A6	97 - 03	OM97/15	A1

BMW

Model	Year	Adapter	Switch Position
3 Series (E36)	96 - 00	OM97/11 or OM97/15	A6
3 Series (E46)	98 - 01	OM97/11 or OM97/15	A6
5 Series (E39)	97 - 01	OM97/11 or OM97/15	A6
7 Series (E38)	95- 01	OM97/11 or OM97/15	A6

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Mercedes - Benz

Model	Year	Adapter	Switch Position
A Class (W168)	98 - 00	OM97/15 and OM162/12	C2
C class (W202)	95 - 00	OM97/15 and OM162/12	C2
CLK (W208)	98 - 00	OM97/15 and OM162/12	C2
E Class (W210)	95 - 00	OM97/15 and OM162/12	C2
S Class (W140)	95 - 99	OM97/15 and OM162/12	C2
S Class (W220)	99 - 00	OM97/15 and OM162/12	C2
SL Class (R129)	95 - 00	OM97/15 and OM162/12	C2
SLK (R170)	98 - 00	OM97/15 and OM162/12	C2

Seat

Model	Year	Adapter	Switch Position
Alhambra	95 - 97	OM97/15	A1
Ibiza/Cordoba	99 - 03	OM97/15	A1
Leon/Toledo	99 - 03	OM97/15	A1

OmiCheck - Climate Control**Skoda**

Model	Year	Adapter	Switch Position
Octavia	96 - 03	OM97/15	A1

GM (Vauxhall/Opel)

Model	Year	Adapter	Switch Position
Vectra	95 - 99	OM97/15	J2
Omega	94 - 99	OM97/15	J2
Omega	00 - 02	OM97/15	J2

Volkswagen

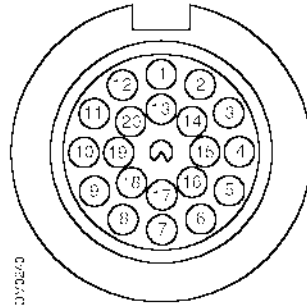
Model	Year	Adapter	Switch Position
Golf/Vento/Cabrio (petrol)	92 - 03	OM97/15	A1
Golf/Vento (diesel)	95 - 03	OM97/15	A1
Bora	98 - 03	OM97/15	A1
Passat	94 - 03	OM97/15	A1
Sharan	95 - 03	OM97/15	A1

OmiCheck - Climate Control

Diagnostic Connector Locations

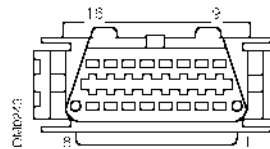
BMW

The BMW diagnostic connector is a 20 pin round connector (approximately 50 mm in diameter). The connector is located in the engine bay, normally along the bulkhead, but the exact location can vary.



GM

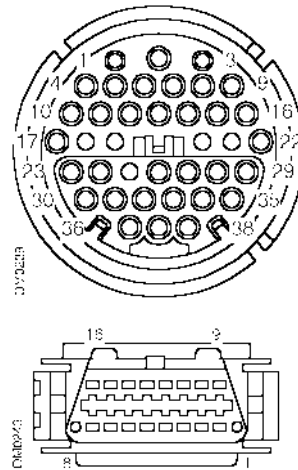
The diagnostic connector can be located in the passenger compartment fuse box or under a removable panel adjacent to the handbrake lever.



Mercedes-Benz

Mercedes-Benz vehicles generally use a circular 38 pin diagnostic connector. This connector can be located in the engine compartment, normally along the bulkhead.

The Mercedes uses the standard J1962/ OBD II diagnostic connector, located under the steering column.



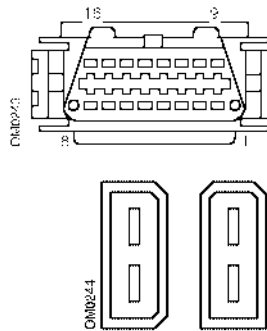
OmiCheck - Climate Control

VAG (Audi, Seat, Skoda and Volkswagen)

Volkswagen and Audi vehicles use two different types of diagnostic connector - The J1962/ OBD II multi-pin connector and the 2-pin ISO 9141 connector.

Most Volkswagen/ Audi vehicles use the J1962/ OBD II diagnostic socket. This is normally located in the centre console under a removable plastic cover, or in the drivers' footwell underneath the steering column.

Audi A6 and Audi 100 vehicles use the ISO 9141 connectors which are located in the engine compartment relay box.



Operating Instructions

Insert the application card into the slot in the bottom of the unit.

CAUTION: The application card is fragile and must be handled with care. Hold the card at the raised end and insert gold contact end first, with contacts facing upwards. Take care not to scratch the gold contacts.

NOTE: When correctly inserted, the end of the card will be flush with the unit casing, with the removal tape protruding. When first using a card, the unit will take approximately 30 seconds to initialise, during which time the message "UPDATING WAIT" will be displayed. Once the initialisation is completed, that card cannot be used in any other unit.

Connect the required diagnostic lead to the OmiCheck tool (refer to application list for lead selection). Connect the OmiCheck to the vehicle's diagnostic connector, with the ignition off.

NOTE: If using the switchable harness, the switches must be set as specified (see Application List).

Turn the ignition on, the OmiCheck will power up automatically and display a menu. Using the navigation keys select the required vehicle followed by the required function (see below) and press the 'continue' key.





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CAUTION: DO NOT remove the application card whilst the OmiCheck is in use. The card should remain in the unit until another application card is to be used, in which case the cards may be changed only when the unit is not connected to the vehicle. Remove the card by gently pulling the tape.

Choose the appropriate menu option from the following options;

BMW	Read DTC(s)
	Clear DTC(s)
GM	Read DTC(s)
	Clear DTC(s)
Mercedes	Read DTC(s)
	Clear DTC(s)
VAG	Read DTC(s)
	Clear DTC(s)

Navigate the menu by pressing:

-  to go up
-  to go down
-  to continue
-  to go back

Unit Care

NOTE: The application card is fragile. Take care when handling.

The card should be held at the raised end.

Care should be taken not to touch or scratch the gold contacts.

The card should be inserted with the gold contacts facing upwards and nearest the unit.

The card should be left inserted into the unit during operation, only remove when wishing to use another application.

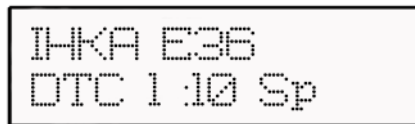
OmiCheck - Climate Control

Displaying Diagnostic Trouble Codes

A diagnostic trouble code will be displayed according to the Vehicle Manufacturer and System Type.

BMW

Diagnostic trouble codes are displayed as in the following example.



OM0266

The first line displays the system type, which can be used to reference the fault table in the manual.

The second line displays the current fault number, followed by the diagnostic trouble code and the fault status.

Example:

Fault Number 1

Diagnostic trouble code 10 which when referenced in the manual is:

- Fresh air flap motor

The status of the code is Sp which when referenced in the BMW status table is:

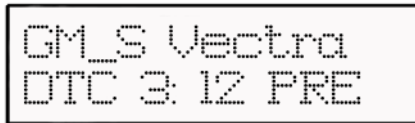
- Sporadic Fault.

If more than one fault is present faults can be viewed using the up/down arrow keys. To return to the BMW menu press the X key, pressing the X key again returns you to the main menu.

OmiCheck - Climate Control

GM

Diagnostic trouble codes are displayed as in the following example.



```
GM_S Vectra
DTC 3: 12 PRE
```

OM0269

The first line displays the system type, which can be used to reference the fault table in the manual.

The second line displays the current fault number, followed by the diagnostic trouble code and the fault status.

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Example:

Fault Number 3

Diagnostic trouble code 12 which when referenced in the manual is:

- AC footwell vent temperature sensor, left - voltage low

The status of the code is PRE which when referenced in the Vauxhall status table is:

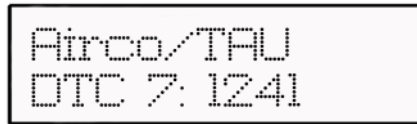
- Present

If more than one fault is present, faults can be viewed using the up/down arrow keys. To return to the VAG menu press the X key, pressing the X key again returns you to the main menu.

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Mercedes-Benz

Diagnostic trouble codes are displayed as in the following example.



OM0267

The first line displays the system type, which can be used to reference the fault table in the manual.

The second line displays the current fault number, followed by the diagnostic trouble code.

Example:

Fault Number 7

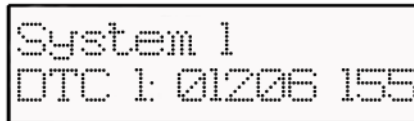
Diagnostic trouble code 1241 which when referenced in the manual is:

- Refrigerant Fill

If more than one fault is present faults can be viewed using the up/down arrow keys. To return to the Mercedes menu press the X key, pressing the X key again returns you to the main menu.

VAG (Audi, Seat, Skoda and Volkswagen)

Diagnostic trouble codes are displayed as in the following example.



```
System 1
DTC 1: 01206 155
```

OM0268

The first line displays the system type, which can be used to reference the fault table in the manual.

The second line displays the current fault number, followed by the diagnostic trouble code and the fault status.

Example:

Fault Number 1

Diagnostic trouble code 01206 which when referenced in the manual is:

- Ign.time period signal off.

The status of the code is 155 which when referenced in the VAG status table is:

- Implausible Signal /Sporadic Fault.

If more than one fault is present faults can be viewed using the up/down arrow keys. To return to the VAG menu press the X key, pressing the X key again returns you to the main menu.

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Clearing Diagnostic Trouble Codes

Diagnostic trouble codes can be cleared using the clear DTC option. When using the option you will be prompted to turn the ignition off and wait until prompted, before switching the ignition back on.

NOTE: After you have selected Clear DTC(s) verify that a Diagnostic trouble code has been cleared by selecting Read DTC(s) after the climate control system has been running. Reading trouble codes just after you have chose Clear DTC(s) without running the climate control system does not mean they are still not present in the system.

BMW Fault Codes

3 Series (E36)

1	Evaporator sensor
2	AUC sensor
3	Brightness
4	Inner temperature sensor
5	Clamp 30
6	Outside temperature sensor
7	Heat exchanger sensor, left
8	Heat exchanger sensor, right
0A	Water valve left
0B	Water valve, right
0C	DME-KO
0D	Rear window defogger relay
0E	Sensor blower
0F	DME-AC
10	Fresh air flap motor
11	Footwell flap motor
12	Air circulation flap motor
13	Ventilation flap motor

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14	Defrost flap motor
15	Vehicle speed signal
16	Engine speed signal
17	Clamp 58g
18	Push button array
19	Blower control voltage
1A	Controlling LED
1B	Controlling LCD
1C	Setting value Y, left
1D	Setting value Y, right
1E	Heat exchanger rated temperature, left
1F	Heat exchanger rated temperature, right

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3 Series (E46)

0	Ventilator flap motor
1	Defroster flap motor
2	Footwell flap motor
3	Left fresh air/Air circulation flap motor
4	Right fresh air/Air circulation flap motor
6	Pressure sensor, AUC supply
0B	Evaporator sensor
0D	Heat exchanger sensor
12	Inner temperature sensor
15	Rear window defogger relay
16	Additional heater, windshield defogger relay
17	Auxiliary water pump
18	Water pump
19	Blower control voltage
20	Sensor blower
21	Communication with the additional heater
22	AUC sensor
23	Pressure sensor
24	AUC heating

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25	Latent heat storage system, cut off valve
26	Latent heat storage system, shut off valve
27	Latent heat storage system, temperature sensor

OmiCheck - Climate Control**5 Series (E39)**

0	Ventilation flap motor
1	Air circulation flap motor
2	Footwell flap motor
3	Defroster flap motor
4	Rear compartment flap motor
5	Fresh air flap motor
6	Latent heat storage system, temperature sensor
7	Heat exchanger sensor, left
8	Heat exchanger sensor, right
9	Evaporator sensor
0A	AUC sensor
0B	Clamp 30
0D	Inner temperature sensor
0E	AUC heating
0F	Relay, auxiliary fan
10	Relay, washer jet heating
11	Relay, rear window defogger
12	AC compressor magnetic clutch
13	DME-KO

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14	DME-AC
15	Auxiliary water pump
16	Water valve, left
17	Water valve, right
18	Park heating locking valve, latent heat storage system cut-of valve
19	Park heating wake up line
1A	Blower control voltage
1B	Setting value Y, left
1C	Setting value Y, right
1D	Heat exchanger rated temperature, left
1E	Heat exchanger rated temperature, right
1F	Outside temperature
20	Vehicle speed
21	Coolant temperature
22	Engine speed
23	Clamp 58g
24	LCD back light
25	Latent heat storage system, shut-of f valve
26	Engine runs
27	Park ventilation on/off

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29	AUC sensor
2A	Sensor blower

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7 Series (E38)

0	Ventilation flap motor, left
1	Ventilation flap motor, right
2	Air circulation flap motor
3	Defroster flap motor
4	Footwell flap motor, left
5	Footwell flap motor, right
6	Stratification flap motor, left
7	Stratification flap motor, right
8	Rear compartment flap motor
10	Fresh air flap motor
12	Inner temperature sensor
0D	Evaporator sensor
0E	Left heat exchanger sensor
0F	Right heat exchanger sensor
14	Rear stratification potentiometer
15	Front stratification potentiometer
16	Right ventilation temperature sensor
17	Left ventilator temperature sensor
29	Relay auxiliary fan

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2A	Relay windshield fogger
2B	Relay rear window defogger
2C	AC compressor magnetic clutch
2D	Auxiliary water pump
2E	Water valve left
2F	Water valve right
30	Park heating locking valve
40	AUC sensor
42	Blower control voltage

OmiCheck - Climate Control

BMW Status Types

Status Displayed	Meaning
Sp	Sporadic Fault
Pr	Currently present
Im	Implausible value/invalid operating range
Op	Open circuit
Neg	Short circuit to negative
Pos	Short circuit to positive
Np	Currently not present

GM Fault Codes

Vectra B 1995-1999

Trouble Code	Fault Code
10	AC control module in-car temperature sensor - voltage low
11	AC control module, in-car temperature sensor - voltage high
12	AC footwell vent temperature sensor, left - voltage low
13	AC footwell vent temperature sensor, left - voltage high
14	AC sunlight sensor, right - voltage low
15	AC sunlight sensor, right - voltage high
16	AC/heater air direction motor II - voltage high
17	AC/heater air direction motor II - voltage low
18	AC/heater air mix flap motor - voltage high
19	AC/heater air mix flap motor - voltage low
20	AC/heater air direction motor I - voltage high
21	AC/heater air direction motor I - voltage low
22	AC/heater defrost flap motor - voltage high
23	AC/heater defrost flap motor - voltage low
24	AC/heater blower motor - voltage high
25	AC/heater blower motor - voltage low
26	AC control module - in-car temperature sensor blower

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27	AC control module - control panel fault
28	Engine coolant heater regulator valve - voltage low
29	Engine coolant heater regulator valve - voltage high
30	AC/heater regulator recirculation flap solenoid - voltage high
31	AC/heater regulator recirculation flap solenoid - voltage low
32	AC/heater blower motor

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Omega B Petrol/Diesel 1994-1999

Trouble Code	Fault Code
10	AC control module in-car temperature sensor - voltage low
11	AC control module, in-car temperature sensor - voltage high
12	Heater output temperature sensor, left - voltage low
13	Heater output temperature sensor, left - voltage high
14	Heater output temperature sensor, right - voltage low
15	Heater output temperature sensor, right - voltage high
16	AC/heater air intake flap motor - voltage low
17	AC/heater air intake flap motor - voltage high
18	AC/heater air mix flap motor I - voltage low
19	AC/heater air mix flap motor I - voltage high
20	AC/heater air mix flap motor II - voltage low
21	AC/heater air mix flap motor II - voltage high
22	AC/heater air direction motor - voltage low
23	AC/heater air direction motor - voltage high
24	AC/heater defrost flap motor - voltage low
25	AC/heater defrost flap motor - voltage high
26	AC/heater blower motor - voltage low
27	AC/heater blower motor - voltage high

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28	AC/heater recirculation flap solenoid - voltage low
29	AC/heater recirculation flap solenoid - voltage high
30	Engine coolant heater regulator valve - voltage low
31	Engine coolant heater regulator valve - voltage high
32	AC/heater blower motor
51	AC control module
52	Variant coding not programmed
55	AC control module
169	Outside air temperature sensor - voltage low
171	Outside air temperature sensor - voltage high

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Omega B 2000-2003 Omega 2.2, 2.6, 3.2, 2.2td, 2.5td

Trouble Code	Fault Code
10	In-car temperature sensor - voltage low
11	In-car temperature sensor - voltage high
12	Blower motor voltage high.
16	AC/heater air facia flap motor - voltage low
17	AC/heater air facia flap motor - voltage high
18	AC/heater air mix flap motor, left - voltage low
19	AC/heater air mix flap motor, left - voltage high
20	AC/heater air mix flap motor, right - voltage low
21	AC/heater air mix flap motor, right - voltage high
22	AC/heater footwell flap motor - voltage low
23	AC/heater footwell flap motor - voltage high
24	AC/heater defrost flap motor - voltage low
25	AC/heater defrost flap motor - voltage high
26	AC/heater blower motor - voltage low
27	AC/heater blower motor - voltage high
28	AC/heater recirculation flap solenoid - voltage low
29	AC/heater recirculation flap solenoid - voltage high
30	Engine coolant heater regulator valve - voltage low

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31	Engine coolant heater regulator valve - voltage high
32	AC sunlight sensor, left solar cell - low input
33	AC sunlight sensor, left solar cell - high input
34	AC sunlight sensor, right solar cell - low input
35	AC sunlight sensor, right solar cell - high input
36	AC footwell vent temperature sensor, left - low input
37	AC footwell vent temperature sensor, left - high input
38	AC footwell vent temperature sensor, right - low input
39	AC footwell vent temperature sensor, right - high input
40	AC fascia vent temperature sensor, left - low input
41	AC fascia vent temperature sensor, left - high input
42	AC fascia vent temperature sensor, right - low input
43	AC fascia vent temperature sensor, right - high input
44	Heated rear window relay/door mirror heater relay - low input
45	Heated rear window relay/door mirror heater relay - high input
46	Heated rear window relay/door mirror heater relay - feedback, low input
47	AC/heater function control panel - defective switch
48	AC/heater function control panel - defective temperature control knob
49	AC control module - multi-plug disconnected
51	AC control module - EEPROM defective

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52	AC control module - variant coding not programmed
55	AC control module - AC - heater function control panel defective
56	Heater intake air purity sensor - open circuit
57	Heater intake air purity sensor defective
58	Engine RPM signal - open circuit
59	Engine RPM signal - high input
169	Outside air temperature - voltage low
171	Outside air temperature - voltage high

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GM Status Codes

The following are displayed indicating the status of the fault.

Displayed	Meaning
INV	Invalid
NOT	Not present
INT	Intermittent
PRE	Present

Mercedes-Benz Fault Reference Body Codes

B1000	HRA Headlamp range adjustment: Supply voltage of the control unit is too low (under voltage)
B1004	LCP Lower Control Panel: Control unit does not match vehicle type
B1026	CAN communication
B1056	Automatic Air Conditioning: Problem in CAN communication with control unit DCM-RL
B1201	Electric seat adjustment front left: Hall sensor front height M27m3
B1213	If seat memory installed: ext left rear-view mirror voltage faulty
B1214	If seat memory installed: ext right rear-view mirror voltage faulty
B1226	In-car temperature sensor (B10/4)
B1227	Outside temperature indicator temp sensor (014)
B1228	Heater core temperature (B10/1)
B1229	Heater core temperature (B10/1)
B1230	Evaporator temperature sensor (B10/6)
B1231	ECT sensor (B11/4)
B1232	Refrigerant pressure sensor (B12)
B1233	Refrigerant temperature sensor (B12/1)
B1234	Sun sensor (B32)

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B1235	Emissions sensor (B31)
B1241	Refrigerant Fill
B1246	PTS Parktronic: A42b1 (left outer sensor, front bumper) The plug connection has poor contact or is loose, or the sensor or cable is faulty
B1310	Left/Window airbag sensor is defective
B1315	Problem in Front passenger child seat recognition
B1416	Coolant circulation pump (M13)
B1417	Left-side water valve (Y21y1)
B1418	Right-side water valve (Y21y2)
B1419	Electromagnetic clutch (A9k1)
B1420	Idle speed increase
B1421	Pulse module (N05)
B1422	Series interface (K1) connection to instrument cluster (A1)
B1423	Switchover valve block (Y11)
B1424	Activated charcoal filler actuator (A32m2) open
B1425	Activated charcoal filler actuator (A32m2) closed
B1432	Maximum heat
B1451	Diverter flap (Y11/3)
B1452	Blend Air Flap (Y11/3)
B1453	Fresh/recirculated airflap (Y11/3) (long stroke)
B1454	Fresh/recirculated airflap (Y11/3) (short stroke)

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B1455	Defroster outlet flap (Y11/3) (long stroke)
B1456	Defroster outlet flap (Y11/3) (short stroke)
B1457	Footwell flap (Y11/3) (long stroke)
B1458	Footwell flap (Y11/3) (short flap)
B1459	Serial interface (K2) connection to instrument cluster (A1)
B1462	Wide open throttle (WOT) position signal diesel engines
B1476	Airbag malfunction indicator and warning lamp is defective
B1481	HRA: Part E2m1 (Right headlamp range adjustment motor) has short to ground
B1489	HRA: Part E2m1 (Right headlamp range adjustment motor) has open or short to positive
B1492	HRA: Part E1m1 (Left headlamp range adjustment motor) has short to positive
B1617	Part E19/1 (Left license plate lamp) is defective
B1618	Part E19/2 (Right license plate lamp) is defective
B1628	Part E2e5 (Turn signal lamp) in module E2 (Right front headlamp unit) is defective
B1703	Intermittent No Start in AAM Immobiliser Module
B1729	PSE Pneumatic system door lock Control Module A37
B1736	Navigation system's CD Player: Check General CD, Check CD data block, Flimsy CD data
B1768	Faulty open data flap limit switch (0025) Front flap

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B1773	HRA: Zero position programming has not yet been carried out or is not possible
B1850	Electric seat adjustment front right: CAN communication interrupted with DCM

VAG (Audi, Seat, Skoda and Volkswagen) Fault Codes

Fault Codes

DTC	Fault
00000	No faults present on system.
00281	Road speed sender-G68.
00522	Coolant temperature sender-G62.
00529	Speed information missing.
00532	Supply voltage.
00538	Reference voltage.
00600	Potentiometer in,V68-G92.
00601	Potentiometer in,V70-G112.
00602	Potentiometer in,V85-G114.
00603	Defroster flap motor in footwell-V85.
00604	Potentiometer in V71-G113.
00605	Two-way valve fresh/recirc.air flap-N63.
00624	Air conditioner compressor cut-in.
00625	Speed signal.
00630	Air conditioning switched on.
00657	Positioning motor for centre outlets-V102.
00658	Operating unit.

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00710	Defrost flap control motor-V107.
00727	Potentiometer in V107-G135.
00734	Potentiometer in centre vent-G142.
00756	Left vent temperature sender-G150.
00757	Right vent temperature sender-G151.
00766	Front vent temperature sender-G152.
00779	Ambient temperature sensor-G17.
00785	Dash panel temperature sender-G56.
00786	Roof temperature sender-G86.
00787	Fresh air intake temperature sender-G89.
00788	Footwell 2-way valve defrost flap-N118.
00799	Air conditioning comp. load signal.
00790	Fresh/ recirculating air flap.
00791	Evaporator temperature switch-E33.
00792	Air conditioner pressure switch-F129.
00796	Blower for temperature sender-V42.
00797	Sunlight penetration photo sender-G107.
00799	Coolant temperature sender-G110.
00800	Temperature sensor blower-G109.
00801	High pressure switch magnetic coupling-F118.
00802	Air conditioner low pressure switch-F73.

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01013	Air conditioning comp. load signal.
01029	Air conditioner,relay-J32.
01044	Control unit incorrectly coded.
01086	Speedometer sender-G22.
01087	Basic setting not carried out.
01184	Rear air outlet temperature sender-G174.
01185	Rear fresh air,blower-V80.
01186	Rear air,distribution servo motor-V136.
01187	Rear temp. flap servo motor-V137.
01188	Magnetic coupling CU - electrical operation.
01189	Posit.motor for air distri.front-V145.
01205	Climatronic relay-J254.
01206	Ign.time period signal off.
01229	Humidity sender for A/C system-G260.
01230	Air vent temp. sender L foot well-G26.
01231	Air vent temp. sender R foot well-G262.
01232	A/C compressor regulator valve-N280.
01270	A/C magnetic,coupling-N25.
01271	Motor for temperature flap-V68.
01272	Motor for central flap-V70.
01273	Fresh air lower-V2.

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01274	Motor for air flow flap-V71.
01296	Centre vent temp.sender-G191.
01297	Footwell vent temp.sender-G192.
01320	Control unit for Climatronic.
01582	Signal for coolant temp.
01809	Positioning motor for temp.flap l-V158.
01810	Positioning motor for temp.flap r-V159.
01841	Potentiometer in V158-G220.
01842	Potentiometer in V159-G221.
16915	Air conditioner compressor load signal Implausible signal.
16916	A/C pressure sensor Signal too low.
16917	A/C pressure sensor Signal too high.
17029	Air conditioning input/output.
17975	Load signal from A/C compressor No signal.
18043	Data bus drive No message from air condition CU.
18049	Please interrogate air condition CU fault memory.
18064	Air conditioning input/output Short to earth.
18065	Air conditioning input/output Short to positive.

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VAG fault code status list

01	Signal at positive
129	Signal at positive - Sporadic Fault
02	Signal at earth
130	Signal at earth - Sporadic Fault
03	No Signal
131	No Signal - Sporadic Fault
04	Mechanical Fault
132	Mechanical Fault - Sporadic Fault
05	Input Open
133	Input Open - Sporadic Fault
06	Signal too great
134	Signal too great - Sporadic Fault
07	Signal too small
135	Signal too small - Sporadic Fault
08	Regulating Limit exceeded
136	Regulating Limit exceeded - Sporadic Fault
09	Adaption limit exceeded
137	Adaption limit exceeded - Sporadic Fault
10	Adaption limit not reached

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138	Adaption limit not reached - Sporadic Fault
11	Regulation limit not reached
139	Regulation limit not reached - Sporadic Fault
12	Adaption limit (mul) exceeded
140	Adaption limit (mul) exceeded - Sporadic Fault
13	Adaption limit (mul) not reached
141	Adaption limit (mul) not reached - Sporadic Fault
14	Adaption limit (add) exceeded
142	Adaption limit (add) exceeded - Sporadic Fault
15	Adaption limit (add) not reached
143	Adaption limit (add) not reached - Sporadic Fault
16	Signal outside tolerance
144	Signal outside tolerance - Sporadic Fault
17	Regulating difference
145	Regulating difference - Sporadic Fault
18	Upper stop valve
146	Upper stop valve Sporadic Fault
19	Lower stop valve
147	Lower stop valve - Sporadic Fault
20	Fault in basic setting
148	Fault in basic setting - Sporadic Fault

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21	Front Pressure build-up time too long
149	Front Pressure build-up time too long - Sporadic Fault
22	Front pressure reducing time too long
150	Front pressure reducing time too long - Sporadic Fault
23	Rear pressure build-up time too long
151	Rear pressure build-up time too long - Sporadic Fault
24	Rear pressure reducing time too long
152	Rear pressure reducing time too long - Sporadic Fault
25	Undefined switch condition
153	Undefined switch condition - Sporadic Fault
26	Output Open
154	Output Open - Sporadic Fault
27	Implausible Signal
155	Implausible Signal - Sporadic Fault
28	Short Circuit to positive
156	Short Circuit to positive - Sporadic Fault
26	Short circuit to earth
157	Short circuit to earth - Sporadic Fault
30	Open/short circuit to positive
158	Open/short circuit to positive - Sporadic Fault
31	Open/short circuit to earth

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159	Open/short circuit to earth - Sporadic Fault
32	Value of resistance too great
160	Value of resistance too great - Sporadic Fault
33	Value of resistance too small
161	Value of resistance too small - Sporadic Fault
34	No fault type identified
162	No fault type identified - Sporadic Fault
35	
163	Sporadic Fault
36	Open circuit
164	Open circuit - Sporadic Fault
37	Defective
165	Defective - Sporadic Fault
38	Output does not switch/short to positive
166	Output does not switch/short to positive - Sporadic Fault
39	Output does not switch/short to earth
167	Output does not switch/short to earth - Sporadic Fault
40	Short circuit to another valve
168	Short circuit to another valve - Sporadic Fault
41	Blocked or without voltage
169	Blocked or without voltage - Sporadic Fault

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42	Speed difference too great
170	Speed difference too great - Sporadic Fault
43	Closed
171	Closed - Sporadic Fault
44	Short circuit
172	Short circuit - Sporadic Fault
45	Connector
173	Connector - Sporadic Fault
46	Leaking
174	Leaking - Sporadic Fault
47	Wrong Connection
175	Wrong Connection - Sporadic Fault
48	Power supply
176	Power supply - Sporadic Fault
49	No Communication
177	No Communication - Sporadic Fault
50	Position early not reached
178	Position early not reached - Sporadic Fault
51	Position late not reached
179	Position late not reached - Sporadic Fault
52	Power supply too large

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180	Power supply too large - Sporadic Fault
53	Power supply too small
181	Power supply too small - Sporadic Fault
54	Wrong equipment
182	Wrong equipment - Sporadic Fault
55	Adaption not in emergency mode
183	Adaption not in emergency mode - Sporadic Fault
56	Electrical fault in current circuit
184	Electrical fault in current circuit - Sporadic Fault
57	Does not lock
185	Does not lock - Sporadic Fault
58	Does not unlock
186	Does not unlock - Sporadic Fault
59	Deadlock does not engage
187	Deadlock does not engage - Sporadic Fault
60	Deadlock does not disengage
188	Deadlock does not disengage - Sporadic Fault
61	Not or incorrect setting
189	Not or incorrect setting - Sporadic Fault
62	Temp. switch-off
190	Temp. switch-off - Sporadic Fault

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63	Spec. Value not reached
191	Spec. Value not reached - Sporadic Fault
64	Cy1
192	Cy1 - Sporadic Fault
65	Cy1
193	Cy1 - Sporadic Fault
66	Cy1
194	Cy1 - Sporadic Fault
67	Cy1
195	Cy1 - Sporadic Fault
68	Cy1
196	Cy1 - Sporadic Fault
69	CY1
197	CY1 - Sporadic Fault
70	CY1
198	CY1 - Sporadic Fault
71	CY1
199	CY1 - Sporadic Fault
72	Terminal 30 is missing
200	Terminal 30 is missing - Sporadic Fault
73	Internal voltage supply

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201	Internal voltage supply - Sporadic Fault
74	Missing message
202	Missing message - Sporadic Fault
75	Interrogate Fault memory
203	Interrogate Fault memory - Sporadic Fault
76	In one-wire operating mode
204	In one-wire operating mode - Sporadic Fault
77	Cannot be check at present
205	Cannot be check at present - Sporadic Fault
78	Not authorized
206	Not authorized - Sporadic Fault
79	Compensation not carried out
207	Compensation not carried out - Sporadic Fault



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