

# Omitec

## **OmiCheck** **Airbag Tool**



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### Introduction

The OmiCheck is a hand held plug-in code reader that provides the technician with a tool that reads and clears any airbag related stored codes and resets the warning lamp.



The OmiCheck connects directly into the diagnostic socket and relays information via a clear LCD screen.

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

## Application List

Audi

Model	Year	System	Adapter	Switch Position
A2	01 - 02	N/A	OM97/15	A1
A3	96 - 02	N/A	OM97/15	A1
A4	95 - 02	N/A	OM97/15	A1
A6	91 - 96	N/A	OM97/17	N/A
A6	96 - 02	N/A	OM97/15	A1
A8	94 - 96	N/A	OM97/17	N/A
A8	96 - 02	N/A	OM97/15	A1
80	91 - 95	N/A	OM97/17	N/A
100	91 - 96	N/A	OM97/17	N/A

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### BMW

Model	Year	System	Adapter	Switch Position
3 Series (E30)	91 - 93	Driver Airbag (5WK4 060)	OM97/11	N/A
3 Series (E36)	91 - 93	Driver Airbag (5WK4 060)	OM97/11	N/A
5 Series (E34)	91 - 93	Driver Airbag (5WK4 060)	OM97/11	N/A
7 Series (E32)	91 - 93	Driver Airbag (5WK4 060)	OM97/11	N/A
3 Series (E36)	93 - 95	1 or 2 airbags (ZAE, BAE)	OM97/11	N/A
5 series (E34)	93 - 95	1 or 2 airbags (ZAE, BAE)	OM97/11	N/A
8 series (E31)	93 - 95	1 or 2 airbags (ZAE, BAE)	OM97/11	N/A
3 Series (E36)	95 - 99	4 or 6 airbags (ZAE2, MRS, MRS2)	OM97/11	N/A
3 Series (E46)	95 - 00	4 or 6 airbags (ZAE2, MRS, MRS2)	OM97/11 or OM97/15	A6
5 Series (E39)	95 - 99	4 or 6 airbags (ZAE2, MRS, MRS2)	OM97/11	N/A
5 Series (E39)	96 - 97	4 or 6 airbags (ZAE2, MRS, MRS2)	OM97/15	A6
7 Series (E38)	95 - 99	4 or 6 airbags (ZAE2, MRS, MRS2)	OM97/11	N/A
7 Series (E38)	99-02	4 or 6 airbags (ZAE2, MRS, MRS2)	OM97/15	A6
8 Series (E31)	95 - 99	4 or 6 airbags (ZAE2, MRS, MRS2)	OM97/11	N/A

## Citroen

Model	Year	System	Adapter	Switch Position
Berlingo	96 - 00	Airbag/ Seat Belt	OM97/20 or/15	K2
Relay	94 - 00	Airbag/ Seat Belt	OM97/20 or/15	K2
Saxo	96 - 00	Airbag/ Seat Belt	OM97/20 or/15	K2
Synergie	96 - 00	Airbag/ Seat Belt/ Side Airbags	OM97/20 or/15	K2
Xantia	96 - 00	Airbag/ Seat Belt/ Side Airbags	OM97/20 or/15	K2
Xsara	97 - 00	Airbag/ Seat Belt/ Side Airbags	OM97/20 or/15	K2
XM	96 - 98	Airbag/ Seat Belt	OM97/20 or/15	K2
ZX	95 - 98	Airbag/ Seat Belt	OM97/20 or/15	K2

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### GM (Vauxhall/Opel)

Model	Year	System	Adapter	Switch Position
Astra F	94 - 98	Airbag S	OM97/15	J7
Cavalier	93 - 95	Airbag S	OM97/15	J7
Corsa-B	94 - 99	Airbag S	OM97/15	J7
Omega-B	94 - 99	Airbag S	OM97/15	J7
Tigra	95 - 99	Airbag S	OM97/15	J7
Vectra-A	93 - 95	Airbag S	OM97/15	J7
Astra-G	98 - 02	Airbag SAB6	OM97/15	J7
Corsa-B	94 - 99	Airbag SAB6	OM97/15	J7
Omega-B	94 - 01	Airbag SAB6	OM97/15	J7
Vectra-B	95 - 99	Airbag SAB6	OM97/15	J7
Calibra	93 - 97	Airbag SDM (5V)	OM97/19	N/A
Frontera-A	97 - 98	Airbag SDM (5V)	OM97/19	N/A
Frontera-B	99 - 02	Airbag SDM (5V)	OM97/19	N/A
Monterey	97 - 98	Airbag SDM (5V)	OM97/19	N/A
Vectra-B	95 - 99	Airbag SAE4	OM97/15	J7
Vectra-B	95 - 99	Airbag	OM97/15	J7
Corsa-C	01 - 02	Airbag 20	OM97/15	F2
Combo	02 - 02	Airbag 20	OM97/15	F2



**Mercedes - Benz**

Model	Year	System	Adapter	Switch Position
190E (201)	88 - 93	Slow Codes	OM97/12 or OM97/18	N/A
200E (124)	88 - 95	Slow Codes	OM97/12 or OM97/18	N/A
220E (124)	88 - 95	Slow Codes	OM97/12 or OM97/18	N/A
230E (124)	88 - 95	Slow Codes	OM97/12 or OM97/18	N/A
260E (124)	88 - 95	Slow Codes	OM97/12 or OM97/18	N/A
280E (124)	88 - 95	Slow Codes	OM97/12 or OM97/18	N/A
300E (124)	88 - 95	Slow Codes	OM97/12 or OM97/18	N/A
320E (124)	88 - 95	Slow Codes	OM97/12 or OM97/18	N/A
A Class (168)	98 - 02	Fast Codes	OM97/15	A11
C Class (202)	93 - 02	Fast Codes	OM97/15	A11
E Class (210)	95 - 02	Fast Codes	OM97/15	A11

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### Peugeot

Model	Year	System	Adapter	Switch Position
106	96 - 00	Airbag/ Seat Belt	OM97/20 or/15	K2
206	98 - 00	Airbag/ Seat Belt/ Side Airbags	OM97/20 or/15	K2
306	96 - 00	Airbag/ Seat Belt/ Side Airbags	OM97/20 or/15	K2
406	95 - 00	Airbag/ Seat Belt/ Side Airbags	OM97/20 or/15	K2
605	97 - 00	Airbag/ Seat Belt/ Side Airbags	OM97/20 or/15	K2
806	96 - 00	Airbag/ Seat Belt/ Side Airbags	OM97/20 or/15	K2
Boxer	94 - 00	Airbag/ Seat Belt	OM97/20 or/15	K2
Expert	97 - 00	Airbag/ Seat Belt	OM97/20 or/15	K2
Partner	96 - 00	Airbag/ Seat Belt	OM97/20 or/15	K2

### Seat

Model	Year	System	Adapter	Switch Position
Alhambra	96 - 02	N/A	OM97/15	A1
Arosa	97 - 02	N/A	OM97/15	A1
Cordoba	93 - 02	N/A	OM97/15	A1
Ibiza	93 - 02	N/A	OM97/15	A1
Inca	95 - 02	N/A	OM97/15	A1
Leon	00 - 02	N/A	OM97/15	A1
Toledo	94 - 02	N/A	OM97/15	A1

**Skoda**

Model	Year	System	Adapter	Switch Position
Fabia	00 - 02	N/A	OM97/15	A1
Felicia	95 - 02	N/A	OM97/15	A1
Octavia	96 - 02	N/A	OM97/15	A1

**Volkswagen**

Model	Year	System	Adapter	Switch Position
Beetle	99 - 02	N/A	OM97/15	A1
Bora	91 - 02	N/A	OM97/15	A1
Caddy	93 - 95	N/A	OM97/15	A1
Caravelle	93 - 95	N/A	OM97/15	A1
Classic	93 - 95	N/A	OM97/15	A1
Corrado	93 - 95	N/A	OM97/15	A1
Golf	91 - 02	N/A	OM97/15	A1
Jento	93 - 95	N/A	OM97/15	A1
Lupo	93 - 95	N/A	OM97/15	A1
Passat	98 - 02	N/A	OM97/15	A1
Polo	93 - 02	N/A	OM97/15	A1
Sharan	96 - 02	N/A	OM97/15	A1
Transporter	93 - 95	N/A	OM97/15	A1

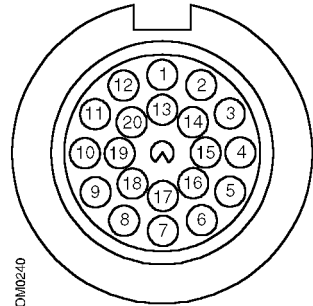
### Airbag Safety

- All work on vehicle restraint systems should be carried out by trained personnel. Do not install accessories in the area of the driver / passenger / side airbags.
- Observe component manufacturers instructions for safety, handling and installation.
- Explosive devices are subject to national laws and must be followed. This includes storage and transportation.
- Store removed explosive devices in a locked area away from other hazardous materials.
- Do not connect or disconnect any wiring with the ignition "ON". Switch ignition off and allow one minute for the system to discharge
- During welding operations disconnect the vehicle battery. Remove airbag components when welding close to them. Connect welding ground as near to the work zone as possible.
- Do not expose systems to temperatures above 80°C.
- Use only diagnostic testers to diagnose faults. Do not use multimeters or test lamps etc.
- To check the wiring with multimeters, disconnect all explosive devices.

## 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.



### Citroen

The J1962 16-pin diagnostic connector is located in the following positions:

Saxo (1997 on): Under dashboard - passenger side.

Berlingo: Under dashboard - driver's side.

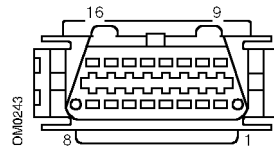
Xsara, Xantia: Fascia fuse box.

The 30-pin connector is located in the following positions:

Saxo (to 1997): Passenger side - below dash.

Berlingo, Synergie: Driver's side - below dashboard.

XM, Xantia (to 1997): Fascia fuse box.

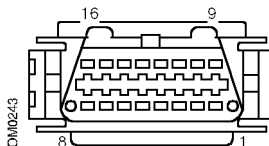


## OmiCheck - Airbag tool

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### 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

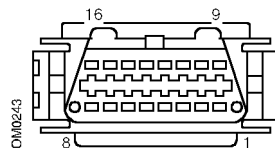
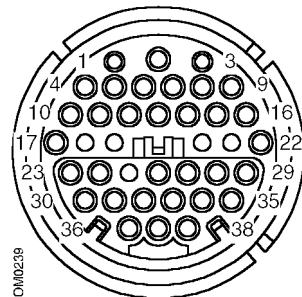
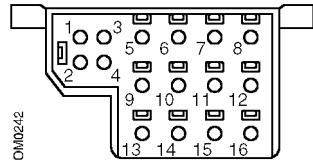
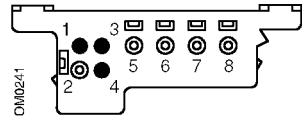
Mercedes-Benz vehicles generally use four styles of diagnostic connector:

- 8 pin - Use OM97/18 in Pin 6 of the vehicle connector.
- 16 pin - Use OM97/18 in Pin 6 of the vehicle connector.
- 38 pin - Use OM97/12

*These diagnostic sockets are usually located in the engine compartment near the bulkhead.*

- 16 pin (J1962) - Use OM97/15

*This diagnostic socket is usually located under the steering wheel.*



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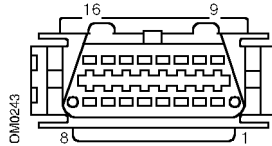
## Peugeot

The J1962 16-pin diagnostic connector is located in the following positions:

106 (1997 on): Under dashboard - passenger side.

206, 306, 806, Partner (1997 on): Under dashboard - driver's side.

406 (1997 on): Fascia fuse box.



The 30-pin connector is located in the following positions:

106 (to 1997): Passenger side - below dash.

806, Partner (to 1997): Driver's side - below dashboard.

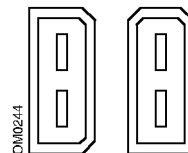
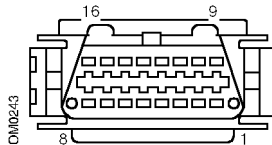
406 (to 1997), 605: Fascia fuse box.

## VAG

Volkswagen and Audi vehicles use two different types of diagnostic connector - The J1962/ OBD II multi-pin connector and the 2x2 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 and are located in the engine compartment relay box.





### Operating Instructions

1. Connect the diagnostic lead to the OmiCheck tool (refer to application list for lead selection).
2. Insert the Airbag application card into the OmiCheck unit.
3. Connect the OmiCheck to the vehicles diagnostic connector.
4. Turn the ignition on. The OmiCheck will power up automatically.
5. Select the vehicle make from the menu.
6. Choose the appropriate menu option from the following options;
  - Read DTCs
  - Clear DTCs
7. Navigate the menu by pressing;

↶ to go up

↷ to go down

✓ to continue

✕ to go back

### Viewing Diagnostic Trouble Codes

If any DTCs are found, then the numbers of faults are displayed, followed by the first fault code.

To view the next code press the down arrow ( ↷ ).

To view the previous code press the up arrow ( ↶ ).

To exit press ✕ .

### Unit Care

*CAUTION: 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.*

When using a card for the first time the unit will take approximately 30 seconds to initialise during this time you will see the message 'UPDATING WAIT...'

Once the card successfully updates your unit it cannot be used to update another unit.

## Fault Codes

### GM - Airbag Fault Codes

System:Airbag S, Airbag SAB6

- 4 Left Airbag Squib Circuit Malfunction
- 5 Right Airbag Squib Circuit Malfunction
- 6 Left Pretensioner Circuit Malfunction
- 7 Right Pretensioner Circuit Malfunction
- 8 Left Side Airbag Squib Circuit Signal Low
- 9 Right Side Airbag Squib Circuit Signal Low
- 13 Left Airbag Squib Circuit Signal Low
- 14 Left Pretensioner Circuit Signal Low
- 15 Left Airbag Squib Circuit Signal High
- 16 Left Pretensioner Circuit Signal High
- 21 Left Squib Circuit Short To Ground
- 22 Left Squib Circuit Short To Battery
- 23 Right Airbag Squib Circuit Signal Low
- 24 Right Pretensioner Circuit Signal Low
- 25 Right Airbag Squib Circuit Signal High
- 26 Right Pretensioner Circuit Signal High
- 31 Left Airbag Squib Circuit High Resistance
- 32 Left Airbag Squib Circuit Low Resistance
- 33 Right Airbag Squib Circuit High Resistance
- 34 Right Airbag Squib Circuit Low Resistance
- 35 Left Pretensioner Circuit High Resistance
- 36 Left Pretensioner Circuit Low Resistance
- 37 Right Pretensioner Circuit High Resistance
- 38 Right Pretensioner Circuit Low Resistance
- 43 Telltale Signal High
- 44 Telltale (Check light) Signal Low Or Open Circuit
- 48 Battery Voltage Low
- 49 Battery Voltage High

## OmiCheck - Airbag tool

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- 51 ECU (Squib Code) Not Programmed
- 52 Control Unit (Squib Code) Not Programmed
- 53 Reprogram ECU (Squib Code)
- 55 Replace Electronic Control Unit (ECU)
- 56 Electronic Control Unit not Reusable
- 65 Right Airbag Activated
- 66 Left Airbag Activated
- 67 Pretensioning Devices Activated
- 68 Left Side Airbag Activated
- 69 Right Side Airbag Activated
- 71 Left Side Airbag Sensor Communication Circuit Malfunction
- 72 Left Side Airbag Sensor Circuit Malfunction
- 73 Left Side Airbag Sensor Signal High Or Circuit Open
- 74 Left Side Airbag Sensor Signal Low (Signal Lead)
- 75 Left Side Airbag Squib Circuit Signal Low
- 76 Left Side Airbag Squib Circuit Signal High
- 77 Left Side Airbag Squib Circuit High Resistance
- 78 Left Side Airbag Squib Circuit Low Resistance
- 81 Right Side Airbag Sensor Communication Circuit Malfunction
- 82 Right Side Airbag Sensor Circuit Malfunction
- 83 Right Side Airbag Sensor Signal High Or Circuit Open
- 84 Right Side Airbag Sensor Signal Low (Signal Lead)
- 85 Right Side Airbag Squib Circuit Signal Low
- 86 Right Side Airbag Squib Circuit Signal High
- 87 Right Side Airbag Squib Circuit High Resistance
- 88 Right Side Airbag Squib Circuit Low Resistance

### Airbag SAE4, Airbag

- 13 Left Airbag Squib Circuit Signal Low
- 14 Left Pretensioner Circuit Signal Low
- 15 Left Airbag Squib Circuit Signal High
- 16 Left Pretensioner Circuit Signal High
- 23 Right Airbag Squib Circuit Signal Low
- 24 Right Pretensioner Circuit Signal Low
- 25 Right Airbag Squib Circuit Signal High
- 26 Right Pretensioner Circuit Signal High
- 31 Left Airbag Squib Circuit High Resistance
- 32 Left Airbag Squib Circuit Low Resistance
- 33 Right Airbag Squib Circuit High Resistance
- 34 Right Airbag Squib Circuit Low Resistance
- 35 Left Pretensioner Circuit High Resistance
- 36 Left Pretensioner Circuit Low Resistance
- 37 Right Pretensioner Circuit High Resistance
- 38 Right Pretensioner Circuit Low Resistance
- 43 Telltale Signal High
- 44 Telltale Signal Low Or Circuit Open / Telltale Malfunction
- 48 System Voltage Signal Low
- 49 System Voltage Signal High
- 52 Control Unit (Squib Code) Not Programmed
- 53 Squib Circuit Code Mismatch
- 55 Replace Electronic Control Unit (ECU)
- 56 Pretensioning Devices Activated 3 Times
- 66 Squib Circuits Activated (Crash)
- 67 Pretensioning Devices Activated
- 78 Side Airbag Circuit Not Detected

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### Airbag SDM

- 15 Right Airbag Squib Circuit High Resistance
- 16 Right Airbag Squib Circuit Low Resistance
- 17 Right Airbag Squib Circuit Open
- 18 Right Airbag Squib Circuit Signal Low
- 19 Right Airbag Squib Circuit Signal High
- 21 Left Airbag Squib Circuit High Resistance
- 22 Left Airbag Squib Circuit Low Resistance
- 24 Left Airbag Squib Circuit Signal Low
- 25 Left Airbag Squib Circuit High Resistance
- 26 Left Airbag Squib Circuit Open
- 29 Right Pretensioner Circuit Signal Low
- 31 Right Pretensioner Circuit High Resistance
- 32 Right Pretensioner Circuit Low Resistance
- 33 Right Pretensioner Circuit Signal High
- 34 Right Pretensioner Circuit Open
- 37 Right Low Pressure Sensor Circuit Signal Low or Short Circuit
- 38 Right Low Pressure Sensor Circuit Signal High or Open Circuit
- 41 Left Pretensioner Circuit High Resistance
- 42 Left Pretensioner Circuit Low Resistance
- 44 Left Pretensioner Circuit Open
- 45 Left Pretensioner Circuit Signal Low
- 46 Left Pretensioner Circuit Signal High
- 51 Squib Circuits Activated (Crash)
- 53 Squib Circuits Activated With Malfunction
- 61 Telltale Malfunction
- 71 Replace Electronic Control Unit (ECU)

### Airbag 20

B0016 0	Passenger airbag squib circuit low resistance
B0016 2	Passenger airbag configuration mismatch
B0022 0	Driver airbag squib circuit low resistance
B0022 2	Driver airbag configuration mismatch
B0028 0	Passenger side airbag squib circuit low resistance
B0028 2	Passenger side airbag configuration mismatch
B0040 0	Drivers side airbag squib circuit low resistance
B0040 2	Drivers side airbag configuration mismatch
B0057 0	Passenger pretensioner circuit low resistance
B0057 2	Passenger pretensioner configuration mismatch
B0064 0	Driver pretensioner circuit low resistance
B0064 2	Driver pretensioner configuration mismatch
B0073 0	Driver curtain airbag low resistance
B0073 2	Driver curtain airbag configuration mismatch
B0086 0	Passenger curtain airbag low resistance
B0086 2	Passenger curtain airbag configuration mismatch
B1000 0	Replace electronic control unit (ECU)
B1000 3	ECU not stable
B1001 0	SOD configuration mismatch (seat occupied detection)

B	Body Code
C	Chassis
P	Power Train
U	Communications
INV	Invalid
NOT	Not Present
INT	Intermittent
PRE	Present
e.g.	DTC 1 : B00222 NOT

### BMW - Airbag Fault Codes

#### ZAE & BAE Fault Codes

1	Internal ECU fault
2	Firing circuit, driver's airbag
3	Firing circuit, belt tensioner, driver's side
4	Firing circuit, belt tensioner, passenger's side
5	Firing circuit, passenger's airbag
6	Internal ECU fault
7	Internal ECU fault
12	Internal ECU fault
13	Internal ECU fault
14	Internal ECU fault
15	Internal ECU fault
16	Internal ECU fault
17	Supply voltage
18	Internal ECU fault
19	Warning lamp
20	Seat occupancy detector, passenger
21	Pressure sensor, driver
22	Pressure sensor, passenger
23	Internal ECU fault
24	Seat belt lock, driver
25	Seat belt lock, passenger
48	Internal ECU fault
49	Internal ECU fault
50	Internal ECU fault
51	Internal ECU fault
52	Internal ECU fault
53	Internal ECU fault
54	Internal ECU fault
55	Internal ECU fault



56	Internal ECU fault
57	Internal ECU fault
58	Internal ECU fault
59	Internal ECU fault
60	Internal ECU fault
61	Internal ECU fault
62	Internal ECU fault
63	Internal ECU fault
65	Internal ECU fault
67	Internal ECU fault
68	Internal ECU fault
69	Internal ECU fault
70	Internal ECU fault
71	Internal ECU fault
72	Internal ECU fault
73	Short circuit between the squibs
76	Internal ECU fault
77	Internal ECU fault

### ZAE II Fault Codes

1	Internal ECU fault
2	Failure warning lamp
3	Voltage supply under voltage
4	Ignition circuit for driver airbag
5	Firing circuit, belt tensioner, driver's side
6	Firing circuit, belt tensioner, passenger's side
7	Ignition circuit for passenger airbag
16	Seat belt - buckle switch, driver
17	Seat belt - buckle switch, passenger
24	Seat occupation recognition sensor, passenger
25	Seat occupation recognition sensor, passenger
26	Seat occupation recognition sensor, passenger

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### MRS Fault Codes

1	Internal ECU fault
2	Failure warning lamp
3	Voltage supply
4	Firing circuit for driver airbag
5	Firing circuit, belt tensioner, driver side
6	Firing circuit, belt tensioner, passenger side
7	Firing circuit for passenger airbag
8	Firing circuit, side airbag, left side
9	Firing circuit, side airbag, right side
16	Seat belt buckle switch, driver
17	Seat belt buckle switch, passenger
18	Satellite, left sensor (for side Airbag). Data line to satellite
19	Satellite, left sensor (for side airbag), transmitting incorrect data
20	Satellite, left sensor (for side airbag), transmitting incorrect data
21	Satellite, right sensor (for side airbag). Data line to satellite
22	Satellite, right sensor (for side airbag), transmitting incorrect data
23	Satellite, right sensor (for side airbag), transmitting incorrect data
24	Seat - occupation recognition passenger (showing fault type)
25	Seat - occupation recognition passenger (showing number of times the fault occurred)
26	Seat - occupation recognition passenger, (with encoding data that does not match the vehicle equipment)
32	Satellite, left sensor (for side airbag), comms fault or open circuit
33	Satellite, right sensor (for side airbag), comms fault or open circuit

**MRS II Fault Codes**

1	Control ECU fault
2	Failure warning lamp
3	Supply voltage low
4	Driver's airbag
5	Belt tensioner driver's side
6	Belt tensioner passenger's side
7	Passenger airbag
8	Side airbag, front left (Thorax)
9	Side airbag, front right (Thorax)
10	Side airbag, rear left (Thorax)
11	Side airbag, rear right (Thorax)
12	Side airbag, head, front left (ITS)
13	Side airbag, head, front right (ITS)
14	Battery disconnection
15	Passenger airbag, stage 2 / Firing box, belt tensioner rear
16	Seat belt buckle switch, driver
17	Seat belt buckle switch, passenger
18	Sensor, side airbag, left, data line
19	Sensor, side airbag, left, parameter fault
20	Sensor, side airbag, left, data fault
21	Sensor, side airbag, right, data line
22	Sensor, side airbag, right, parameter fault
23	Sensor, side airbag, right, data fault
24	Seat occupancy detector, passenger
26	Seat occupancy detector, passenger: Coding data
28	Child seat detector
29	Child seat detector: Coding data
31	Child seat detector: Hardware
32	Sensor, side airbag, left, Line fault
33	Sensor, side airbag, right, Line fault
53	Sensor, side airbag, left: Coding data
54	Sensor, side airbag, right: Coding data

## OmiCheck - Airbag tool

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### 5WK4 060 Fault Codes

- 1 Crash sensor closed once
  - 2 Crash sensor closed more than once
  - 5 Crash sensor closed permanently
  - 13 Two firing circuits short-circuited
  - 19 Crash-sensor supply wire, left, open circuit
  - 20 Crash-sensor supply wire, right, short circuit
  - 27 One firing circuit, short circuit to positive
  - 33 One firing circuit, short circuit to earth
  - 42 Resistance in the driver's airbag firing circuit too low
  - 43 Resistance in firing circuit II (seat-belt tensioner or passenger's airbag) too low
  - 44 Resistance in firing circuit III (passenger's airbag or equivalent resistance) too low
  - 45 Resistance in the driver's airbag firing circuit too high
  - 46 Resistance in firing circuit II (seat-belt tensioner or passenger's airbag) too high
  - 47 Resistance in firing circuit III (passenger's airbag or equivalent resistance) too high
  - 49 Airbag warning light
  - 50 Diagnostic unit faulty
- Note: Any unknown fault was reported as 'Internal fault in the diagnostic unit'*

## **Citroen and Peugeot- Airbag Fault Codes**

Available Fault Codes:

0000	No fault found
1522	Permanent fault. Seat belt triggers 1 or 2. Short circuit to positive.
1523	Permanent fault. Seat belt triggers 1 or 2. Short circuit to earth.
1524	Permanent fault. Seat belt triggers 1. Open circuit.
1525	Permanent fault. Seat belt trigger 1. Open circuit.
152C	Permanent fault. Seat belt trigger 2. Open circuit.
152D	Permanent fault. Seat belt trigger 1. Short circuit.
150B	Permanent fault. Drivers module trigger. Short circuit to earth.
150D	Permanent fault. Drivers module trigger. Short circuit.
150C	Permanent fault. Drivers module trigger. Open circuit.
150A	Permanent fault. Drivers module trigger. Short circuit to positive.
1512	Permanent fault. Passenger module trigger 1 or 2. Short circuit to positive.
1513	Permanent fault. Passenger module trigger 1 or 2. Short circuit to earth.
1514	Permanent fault. Passenger module trigger 1. Open circuit.
1515	Permanent fault. Passenger module trigger 1. Short circuit.
151C	Permanent fault. Passenger module trigger 2. Open circuit.
151D	Permanent fault. Passenger module trigger 2. Short circuit.
1C2C	Permanent fault. Control Unit.
1C2B	Permanent fault. Control Unit.
1C2A	Permanent fault. Control Unit.
1C29	Permanent fault. Control Unit.
1C31	Permanent fault. Control Unit.
1C32	Permanent fault. Control Unit.
1C33	Permanent fault. Control Unit.
1C21	Permanent fault. Control Unit.
1C22	Permanent fault. Control Unit.

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1C23	Permanent fault. Control Unit.
1C24	Permanent fault. Control Unit.
1C39	Permanent fault. Control Unit.
1C3A	Permanent fault. Control Unit.
2C31	Intermittent fault. Control Unit.
2C32	Intermittent fault. Control Unit.
2C33	Intermittent fault. Control Unit.
1C41	Permanent fault. Control Unit.
2C41	Intermittent fault. Control Unit.
2C3A	Intermittent fault. Control Unit.
2C39	Intermittent fault. Control Unit.
2C1C	Intermittent fault. Control Unit.
2C1B	Intermittent fault. Control Unit.
2C1A	Intermittent fault. Control Unit.
2C19	Intermittent fault. Control Unit.
2C11	Intermittent fault. Control Unit.
2C0D	Intermittent fault. Control Unit.
2C0C	Intermittent fault. Control Unit.
2C0D	Intermittent fault. Control Unit.
2C0C	Intermittent fault. Control Unit.
2C0B	Intermittent fault. Control Unit.
2C0A	Intermittent fault. Control Unit.
2C09	Intermittent fault. Control Unit.
1C0B	Permanent fault. Control Unit.
1C0A	Permanent fault. Control Unit.
1C09	Permanent fault. Control Unit.
1C0C	Permanent fault. Control Unit.
1C0D	Permanent fault. Control Unit.
1C11	Permanent fault. Control Unit.
1C19	Permanent fault. Control Unit.
1C1A	Permanent fault. Control Unit.

250C	Intermittent fault. Drivers module trigger. Open circuit.
250D	Intermittent fault. Drivers module trigger. Short circuit.
250B	Intermittent fault. Drivers module trigger. Short circuit to earth.
250A	Intermittent fault. Drivers module trigger. Short circuit to positive.
2512	Intermittent fault. Passenger module trigger 1 or 2. Short circuit to positive.
2513	Intermittent fault. Passenger module trigger 1 or 2. Short circuit to earth.
2514	Intermittent fault. Passenger module trigger 1. Open circuit.
2515	Intermittent fault. Passenger module trigger 1. Short circuit.
2524	Intermittent fault. Seat belt trigger 1. Open circuit.
2525	Intermittent fault. Seat belt trigger 1. Short circuit.
251C	Intermittent fault. Passenger module trigger 2. Open circuit.
251D	Intermittent fault. Passenger module trigger 2. Short circuit.
2522	Intermittent fault. Seat belt trigger 1 or 2. Short circuit to positive.
2523	Intermittent fault. Seat belt trigger 1 or 2. Short circuit to earth.
252C	Intermittent fault. Seat belt trigger 2. Open circuit.
252D	Intermittent fault. Seat belt trigger 2. Short circuit.
160D	Permanent fault. Warning lamp(). Airbag(). Short circuit to positive.
160C	Permanent fault. Warning lamp (). Airbag(). Short circuit, open or short circuit to earth.
160F	Continuous operation control indicator light.
2CA1	Intermittent fault. Control Unit.
2C1F	Intermittent fault. Control Unit.
2C36	Intermittent fault. Control Unit.
2C18	Intermittent fault. Control Unit.
2C20	Intermittent fault. Control Unit.
2C37	Intermittent fault. Control Unit.
2C38	Intermittent fault. Control Unit.
2C30	Intermittent fault. Control Unit.
2C1D	Intermittent fault. Control Unit.
2C34	Intermittent fault. Control Unit.
2C1E	Intermittent fault. Control Unit.
2C35	Intermittent fault. Control Unit.

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2C21	Intermittent fault. Supply voltage.
2C22	Intermittent fault. Supply voltage.
2C23	Intermittent fault. Supply voltage.
2C24	Intermittent fault. Supply voltage.
2C25	Intermittent fault. Supply voltage.
2C26	Intermittent fault. Supply voltage.
2C27	Intermittent fault. Supply voltage.
2C28	Intermittent fault. Control Unit (energy reserve).
2C29	Intermittent fault. Control Unit (energy reserve).
2C2A	Intermittent fault. Control Unit (energy reserve).
2C2B	Intermittent fault. Control Unit (energy reserve).
2C2C	Intermittent fault. Control Unit (energy reserve).
2C2D	Intermittent fault. Control Unit (energy reserve).
2C2E	Intermittent fault. Control Unit (energy reserve).
2C2F	Intermittent fault. Control Unit (energy reserve).
2108	Intermittent fault. Supply voltage.



## Mercedes-Benz - Airbag Fault Codes

### Blink Codes (Slow Codes)

- |    |                                     |
|----|-------------------------------------|
| 1  | No fault detected in system         |
| 2  | Airbag control module               |
| 3  | Driver airbag                       |
| 4  | Front passenger airbag              |
| 5  | Driver seat belt buckle             |
| 6  | Front passenger seat belt buckle    |
| 7  | Front passenger airbag resistor     |
| 8  | Voltage supply                      |
| 9  | Warning lamp defective              |
| 10 | Airbag control module was activated |

### SRS without Side Airbags

- |    |   |
|----|---|
| 1  | SRS control module (N2/2)   |
| 2  | Driver airbag squib (R12/3)   |
| 3  | Left front ETR squib (R12/1)  |
| 4  | Right front ETR squib (R12/2)   |
| 5  | Front passenger airbag squib  |
| 17 | Voltage supply 15R (low voltage)  |
| 19 | SRS malfunction indicator lamp (A1e15)  |
| 20 | Front passenger seat occupation signal  |
| 24 | Driver seat belt buckle switch (Airbag/ETR) (S68/3)   |
| 25 | Front passenger seat belt buckle switch (Airbag/ETR) (S68/ETR).<br>Squib circuit short circuit (in series). |

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### SRS with Side Airbags

- 1 SRS control module (N2/2)
- 2 SRS malfunction indicator lamp (A1e15)
- 3 Voltage supply circuit 15R (low voltage)
- 4 Driver airbag squib (R12/3)
- 5 Left front ETR squib (R12/1)
- 6 Right front ETR squib (R12/2)
- 7 Front passenger airbag squib
- 8 Left side airbag squib (R12/9)
- 9 Right side airbag (R12/10)
- 16 Driver seat belt buckle switch (Airbag/ETR) (S68/3)
- 17 Front passenger seat belt buckle switch (Airbag/ETR) (S68/4)
- 18 Left side airbag (A53) harness fault
- 19 Left side airbag (A53) sensor defective
- 20 Left side airbag (A53) sensor defective
- 21 Right side airbag (A54) harness fault
- 22 Right side airbag (A54) sensor defective
- 23 Right side airbag (A54) sensor defective
- 24 Front passenger seat occupation signal
- 25 Front passenger seat occupation signal
- 26 Coded version not correct with ECU
- 27 Front passenger seat occupation recognition signal open/short circuit
- 28 Front passenger seat occupation recognition unit (B48) or improperly positioned child seat or electromagnetic interference near seat
- 31 Front passenger seat occupation recognition unit (B48) faulty
- 32 Left side airbag (A53) sensor communication interference
- 33 Right side airbag (A54) sensor communication interference
- 34 Digital crash output, harness faulty (ARTHUR)
- 35 Analogue crash output, harness faulty
- 36 Automatic child seat recognition warning lamp

## **VAG - Airbag Fault Codes**

The faults are displayed as six digit fault codes. The first four digits represent the fault and the last two digits show the status, from the lists below it can be seen that the Gas pressure sender driver side (02FB) no signal, constantly (03).

See also the reset tables for status.

02 14	Supply voltage
02 22	Data cable defective
02 24	Voltage supply for fault memory
02 4C	Airbag igniter-driver side-N95
02 4D	Igniter 1 for airbag-passenger side-N131
02 4E	Igniter 2 for airbag-passenger side-N132
02 4F	Belt switch-driver side-E24
02 50	Belt switch-passenger side-E25
02 51	Seat contact switch-passenger seat-F151
02 52	Airbag ignition circuit
02 53	Crash data stored
02 69	Airbag delay sender left-G104
02 6A	Airbag delay sender right-G105
02 71	Speed signal
02 8E	Belt tensioner igniter (D. side)-N153
02 8F	Belt tensioner igniter (P. side)-N154
02 90	Seat occupied sensor-G128
02 27	Positioning m. for centre outlets-V102
02 27	Operating unit
02 22	Self test
02 E6	Main vehicle battery venting system
02 E7	Battery ventilation sender-G146
02 E9	Insulation monitoring

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02 EA	Main vehicle battery cell failure
02 EB	Front battery temperature sender-G52
02 EC	Rear battery temperature sender-G53
02 EE	Fault lamp
02 EF	Main vehicle battery charge state display
02 F2	Overheating warning lamp
02 F9	Fault stored in engine control unit
02 FB	Gas pressure sender (driver's side)-G147
02 FC	Gas pressure sender (passenger side)-G148
03 2B	System not ready for interrogation
03 38	TCS warning lamp-K86
03 51	S Contact on ignition starter switch
03 B1	Crash sensor-G190
04 01	Fault warning lamp, activation defective
04 14	Control unit incorrectly coded
04 BB	Rear belt tensioner igniter, driver's side-N196
04 BC	Rear belt tensioner igniter, passenger's side.-N197
04 BD	Rear belt tensioner igniter, centre-N198
04 BF	Seat occupied sensor, driver's side rear-G177
04 C0	Seat occupied sensor, passenger's side rear-G178
04 C1	Side airbag igniter, driver's side-N199
04 C2	Side airbag igniter, passenger's side-N200
04 C3	Rear airbag igniter, driver's side-N201
04 C4	Rear airbag igniter, passenger's side-N202
04 C5	Crash sensor side airbag driver's side-G179
04 C6	Crash sensor side airbag passenger's. side-G180
04 C7	Signal open central locking
04 C8	Control unit does not match vehicle
04 CA	Crash data side airbag DS stored
04 CB	Crash data side airbag PS stored
04 CC	Airbag switch-off switch, passenger's side-E224

05 00	Airbag passenger's side switched off
05 29	Control unit for Airbag-J234
06 2A	Passengers side airbag deactivate warning lamp-K145
06 2B	Seat occupied sender, passenger's side-G128
06 2C	Child seat occupied send., passenger's side-G211
06 2D	Wrong component recognised
06 2E	Signal for coolant temp
06 33	Igniter 2 for Airbag driver's side-N250
06 34	Igniter for head Airbag driver's side-N251
06 35	Igniter for Airbag passenger's side-N252
06 36	Igniter for interruption battery-N253
06 37	Warning lamp f.Airbag out, driver's side-K144
06 46	Battery monitoring signal
06 48	Warning lamp test

**VAG System 1 Code Status**

Present	Intermittent	Description
01	81	Signal at positive
02	82	Signal at earth
03	83	No signal
04	84	Mechanical fault
05	85	Input open
06	86	Signal too great
07	87	Signal too small
08	88	Regulating limit exceeded
0B	8B	Regulating limit not reached
10	90	Signal outside tolerance
11	91	Regulating difference
12	92	Upper stop value
13	93	Lower stop value
14	94	Fault in basic setting
19	99	Undefined switch condition
1A	9A	Output open
1B	9B	Faulty signal
1C	9C	Short circuit to positive
1D	9D	Short circuit to earth
1E	9E	Open / Short circuit to positive
1F	9F	Open / Short circuit to earth
20	A0	Resistance value too great

Present	Intermittent	Description
21	A1	Resistance value too small
22	A2	No fault type identified
23	A3	(3 spaces)
24	A4	Open circuit
25	A5	Defective
26	A6	Output does not switch / short to positive
27	A7	Output does not switch / short to negative
29	A9	Blocked or no voltage
2B	AB	Closed
2C	AC	Short circuit
2D	AD	Connector
2E	AE	Leaking
C0		Cannot be checked at present
C1		Not authorized

### VAG Keyword 2000 Status Codes

00	No status
01	Upper limit exceeded
02	Lower limit not reached
03	Mechanical fault
04	No signal/no communication
05	No or incorrect basic settings/adaptation
06	Short to positive
07	Short to earth
08	Implausible signal
09	Open/short circuit to earth
0A	Open/short circuit to positive
0B	Open circuit
0C	Fault in electrical circuit
0D	Read fault memory
0E	Defective
0F	Cannot be tested at present

Sporadic will be denoted by 'SP' on the display.

The fault will be displayed on one line as follows:

DTC 1 : 02FB0B SP

Gas Pressure sender driver side - G147 Open circuit sporadic.





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