

## Audi A3 1997 ➤

### Body Self-diagnosis

Edition 04.1998



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Repair GroupsList of Workshop Manual Repair Groups

**Audi A3 1997 ➤**

**Body Self-diagnosis**

## Repair Group

01 - Self-diagnosis



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Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

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## 01 - Self-diagnosis

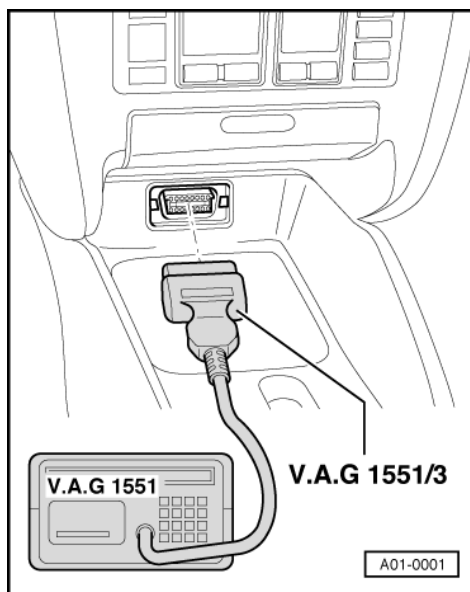
### 1 - Connecting fault reader V.A.G 1551

#### 1.1 - Connecting fault reader V.A.G 1551

**Note:**

*The vehicle system tester V.A.G 1552 can be used instead of the fault reader V.A.G 1551, however a printout is not possible.*

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#### Test conditions

- Battery voltage at least 11 V
  - Earth connections on engine and gearbox OK.
  - Fuse OK.
- Remove cover for diagnostic connector.  
- -> Connect fault reader V.A.G 1551 or vehicle system tester V.A.G 1552 with cable V.A.G 1551/3.

-> Indicated on display:

V.A.G SELF DIAGNOSIS      HELP  
1 - Rapid data transfer 1)  
2 - Flash code output 1)

1) appears alternately

-> If the display shows one of the messages, run through the fault finding procedure as described in the diagnosis management fault finding program.

Rapid data transfer      HELP  
No reply from control unit

=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder

Rapid data transfer      HELP  
Communication problem



Rapid data transfer      HELP  
K wire not switching to earth

Rapid data transfer      HELP  
K wire not switched to positive

**Note:**

*If the display remains blank:*

=> Fault reader operating instructions

- Switch on printer by pressing PRINT key (indicator lamp in key lights up).
- Press key 1 for "Rapid data transfer".

-> Indicated on display:

Rapid data transfer      HELP  
Enter address word XX

**Note:**

*Address word 00 is used to carry out the automatic test sequence, i.e. interrogation of the fault memory via rapid data transfer for all vehicle systems with self-diagnosis capability.*

## 2 - Self-diagnosis of airbag system BTU (Basic Triggering Unit) with and without side airbag

### 2.1 - Self-diagnosis of airbag system BTU (Basic Triggering Unit) with and without side airbag

#### 2.2 - General notes

**Vehicles ä 1998:**

The airbag system contains: Driver's airbag, passenger's airbag, and 2 front belt tensioners. In a crash situation, these are actuated centrally by the airbag control unit (J234) when certain specified triggering criteria are exceeded.

**Vehicles 1998 ä:**

The airbag system contains: Driver's airbag, passenger's airbag, two front seat belt tensioners, two side airbags at the front, and 2 rear belt tensioners. In a crash situation, these are actuated centrally by the airbag control unit (J234) when certain specified triggering criteria are exceeded.

Self-diagnosis can be used to block or activate the passenger's airbag => Page **25**.

**Vehicles as of production date CW 27.99**

The airbag system contains: Driver's airbag, passenger's airbag, two front seat belt tensioners, two side airbags at the front, and 2 rear belt tensioners. In a crash situation, these are actuated centrally by the airbag control unit (J234) when certain specified triggering criteria are exceeded.

In addition to using the airbag key switch it is also possible to block or activate the passenger airbag via the function "adaption" => Page **25**.

If an airbag and/or belt tensioner is triggered, the control unit will record the fault "Crash data stored".

In such cases the control unit for the airbag (J234) must be renewed after

- ◆ the 1st triggering of driver's or passenger's airbag,
- ◆ the 3rd triggering of the front belt tensioners and/or side airbags.

After the 3rd triggering it is not possible to erase the crash signal with the fault reader V.A.G 1551 up to CW 27.99 in vehicles with airbag 8.

#### All vehicles:

Independent from the nature and intensity of the accident, the airbag control unit sends a "Crash Signal" to the control unit for the central locking system. This function is a passive safety feature. If an airbag is triggered it releases the door locks and tailgate lock via the central locking system, disables the internal switch and shuts off the fuel supply. The interior light is also switched on. The "Crash-Signal" must be checked using final control diagnosis => Page 16 .

The control unit detects faults in the airbag system and stores them in a permanent memory.

After the ignition is switched on, the airbag warning lamp (K75) comes on for about 4 seconds and then goes out again. If it then flashes for a further 12 seconds this indicates that the passenger airbag is blocked.

- ◆ If the warning lamp (K75) does not go out after about 4 seconds, this means that there is a fault in the voltage supply for the airbag control unit (J234). Interrogate fault memory => Page 5 .
- ◆ If the warning lamp (K75) goes out and comes on again, this indicates either that the control unit has not been encoded, that the wrong control unit has been fitted, or that a fault has occurred. Interrogate fault memory => Page 5 .

**Important:**  
 Wiring must only be checked by visual inspection.  
 Never use electrical tests to check or measure continuity in the igniter circuits.  
 Always switch off ignition before inspecting wiring.

## 2.3 - Initiating self-diagnosis of airbag system

#### Test requirements:

- ◆ Voltage supply and fuses for the relevant systems OK.

=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder

- ◆ Connect fault reader V.A.G 1551

=> Page 1

- ◆ Switch ignition on.

#### Notes:

- ◆ Only short-term faults are shown as "sporadically occurring faults" and marked with "/SP" on the display.
  - ◆ In order to eliminate such sporadically occurring faults the fault memory must be erased before repair.
  - ◆ Additional operating instructions can be called up with the fault reader HELP key.
  - ◆ The → key is used for the continuation of the program sequence.
- Switch on printer with the Print key (indicator lamp in key lights up).
  - Press key 1 for "Rapid data transfer".

-> Indicated on display:

Rapid data transfer      HELP  
 Enter address word XX



### Address word for airbag system: 15

- Press keys -1- and -5-.

-> Indicated on display:

|                     |   |
|---------------------|---|
| Rapid data transfer | Q |
| 15 - Airbag         |   |

- Confirm input with Q key.

-> Indicated on display:

|                              |      |
|------------------------------|------|
| Rapid data transfer          | HELP |
| Tester sends address word 15 |      |

### Vehicles ä 1998 without side airbags:

-> After about 5 seconds, the following appears on the display:

|            |            |     |
|------------|------------|-----|
| 1J0909601A | Airbag VW3 | V01 |
| Code 00065 | WSC 06812  |     |

### Vehicles ä 1998 with side airbags and vehicles 1998 ä:

-> After approximately 5 seconds, the display will indicate the following, for example:

|            |           |          |
|------------|-----------|----------|
| 8L0959655F | Airbag 7  | AUDI D00 |
| Code 00104 | WSC 06812 |          |

### Vehicles as of production date CW 27.99:

|            |                     |      |
|------------|---------------------|------|
| 8L0959655J | Airbag front + side | 0004 |
| Code 01106 | WSC 06812           |      |

-> After approx. 5 seconds the display indicates:  
Airbag front + side or airbag front + head

### All vehicles:

- Continue through program procedure using the ⇒key.

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

### Note:

*A list of the possible functions is printed out after pressing the HELP key:*

### Self-diagnosis functions

The following functions are possible:

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01 - Interrogating control unit version => Page 15 .

02 - Interrogating fault memory => Page 5 .

03 - Final control diagnosis=> Page 16 .

05 - Erasing fault memory => Page 56 .

06 - End output => Page 57 .

07 - Coding control unit => Page 18 .

08 - Reading measured value block => Page 20 .

10 - Adaption=> Page 25 .

## 2.4 - Interrogating fault memory

### Note:

*The displayed fault information is not constantly updated but only when initiating self-diagnosis or with function 05 "Erase fault memory".*

- Switch on printer with the Print key (indicator lamp in key lights up).

### Performing function 02- "Interrogating fault memory"

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

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- Press keys -0- and -2-.

-> Indicated on display:

|                               |   |
|-------------------------------|---|
| Rapid data transfer           | Q |
| 02 - Interrogate fault memory |   |

- Confirm input with Q key.

-> The number of faults stored appears on the display.

|                    |
|--------------------|
| X fault recognised |
|--------------------|

-> If the message "No fault recognised" is displayed, the program returns to its start position when pressing the =>key.

|                     |
|---------------------|
| No fault recognised |
|---------------------|

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

If something else is displayed:

=> Fault reader operating instructions

- Erase fault memory (function 05)  
=> Page 56 .
- End output (function 06) => Page 57
- Unplug diagnostic connector.

## 2.5 - Fault table for BTU airbag system

### Notes:

- ♦ The following table lists all the faults, with the corresponding 5 digit code numbers, that can be detected by the airbag control unit -J234 and printed out by the V.A.G 1551. Fault codes appear only on print-out.
- ♦ If a fault is continually present the fault lamp for the airbag system lights up until the fault is rectified and the fault memory is erased.



- ♦ If a fault occurs only occasionally or if the fault memory is not erased after the fault remedy has been carried out, the fault will appear on the display as a "sporadically occurring fault" (SP). On the right side of the display of the V.A.G 1551 a "/SP" appears and the fault light remains on.
- ♦ If defective components were detected also check wiring to the components for short and open circuits in line with the current flow diagram.
- ♦ The 3-digit fault type number appearing next to the fault code is a data code which can be ignored.

| V.A.G 1551 print-out                                                      | Possible causes of fault                                                                                                                                                                          | Fault remedy                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00532<br>Voltage supply too low                                           | <ul style="list-style-type: none"> <li>- Battery discharged/defective</li> <li>- Short-circuit in vehicle electrical system</li> </ul>                                                            | <ul style="list-style-type: none"> <li>- Charge/replace battery.</li> <li>- Rectify short circuit in electrical system</li> </ul>                                                                                                                                                                                           |
| 00588<br>Igniter for airbag, driver's side -N95 resistance value too high | <ul style="list-style-type: none"> <li>- Open circuit</li> <li>- Coil spring defective</li> <li>- Driver's airbag unit defective</li> <li>- Control unit for airbag - J234 defective.</li> </ul>  | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>- Test coil spring</li> <li>- Replace airbag unit, driver's side</li> <li>- Replace control unit for airbag -J234.</li> </ul> |
| 00588<br>Igniter for airbag, driver's side -N95 resistance value too low  | <ul style="list-style-type: none"> <li>- Short circuit</li> <li>- Coil spring defective</li> <li>- Driver's airbag unit defective</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>- Test coil spring</li> <li>- Replace airbag unit, driver's side</li> <li>- Replace control unit for airbag -J234.</li> </ul> |

| V.A.G 1551 print-out                                              | Possible causes of fault                                                                                                                                           | Fault remedy                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00588<br>Igniter for airbag, driver's side -N95 short to positive | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Control unit for airbag - J234 defective.</li> </ul>                                           | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>- Replace control unit for airbag -J234.</li> </ul>                                               |
| 00588<br>Igniter for airbag, driver's side -N95 short to earth    | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Driver's airbag unit defective</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>- Replace airbag unit, driver's side</li> <li>- Replace control unit for airbag -J234.</li> </ul> |
| 00589                                                             |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                 |

|                                                                       |                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Igniter 1 for airbag, passenger's side -N131 resistance value too low | <ul style="list-style-type: none"> <li>- Short circuit</li> <li>- Side airbag unit, passenger's side defective</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace airbag unit, passenger's side</li> <li>Replace control unit for airbag -J234.</li> </ul> |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| V.A.G 1551 print-out                                                            | Possible causes of fault                                                                                                                                                         | Fault remedy                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00589<br>Igniter 1 for airbag, passenger's side -N131 resistance value too high | <ul style="list-style-type: none"> <li>- Open circuit</li> <li>- Side airbag unit, passenger's side defective</li> <li>- Control unit for airbag - J234 defective.</li> </ul>    | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace airbag unit, passenger's side</li> <li>Replace control unit for airbag -J234.</li> </ul> |
| 00589<br>Igniter 1 for airbag, passenger's side -N131 short to positive         | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Control unit for airbag - J234 defective.</li> </ul>                                                         | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace control unit for airbag -J234.</li> </ul>                                                |
| 00589<br>Igniter 1 for airbag, passenger's side -N131 short to earth            | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Side airbag unit, passenger's side defective</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace airbag unit, passenger's side</li> <li>Replace control unit for airbag -J234.</li> </ul> |
| 00594<br>Airbag ignition circuits; Short to positive                            | <ul style="list-style-type: none"> <li>- Wiring damaged</li> <li>- Control unit for airbag - J234 defective.</li> </ul>                                                          | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace control unit for airbag -J234.</li> </ul>                                                |

| V.A.G 1551 print-out                              | Possible causes of fault                                                                                                                                                                             | Fault remedy                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00594<br>Airbag ignition circuits; Short to earth | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Coil spring defective</li> <li>- Airbag, driver's side defective</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Testing coil spring</li> <li>Replace airbag unit, driver's side</li> <li>Replace control unit for airbag -J234.</li> </ul> |
| 00595                                             |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                          |



|                                                                                    |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crash data stored                                                                  | <ul style="list-style-type: none"><li>- Head-on collision</li><li>- Side impact</li></ul>                                                                                                                                   | <ul style="list-style-type: none"><li>- Replace control unit, airbag unit, belt tensioner unit and any damaged components.</li></ul>                                                                                                                                                                |
| 00654<br>Igniter for belt tensioner, driver's side -N152 resistance value too high | <ul style="list-style-type: none"><li>- Open circuit</li><li>- Open connection in wiring to driver belt tensioner</li><li>- Belt tensioner igniter defective.</li><li>- Control unit for airbag - J234 defective.</li></ul> | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br/>Close connection.<br/>Replace belt tensioner, driver's side<br/>Replace control unit for airbag -J234.</li></ul> |

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| V.A.G 1551 print-out                                                              | Possible causes of fault                                                                                                                                                             | Fault remedy                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00654<br>Igniter for belt tensioner, driver's side -N153 resistance value too low | <ul style="list-style-type: none"><li>- Short circuit</li><li>- Igniter for belt tensioner, driver's side defective.</li><li>- Control unit for airbag - J234 defective.</li></ul>   | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br/>Replace belt tensioner, driver's side<br/>Replace control unit for airbag -J234.</li></ul> |
| 00654<br>Igniter for belt tensioner, driver's side -N153 short to positive        | <ul style="list-style-type: none"><li>- Wiring damaged.</li><li>- Control unit for airbag - J234 defective.</li></ul>                                                                | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br/>Replace control unit for airbag -J234.</li></ul>                                           |
| 00654<br>Igniter for belt tensioner, driver's side -N153 short to earth           | <ul style="list-style-type: none"><li>- Wiring damaged.</li><li>- Igniter for belt tensioner, driver's side defective.</li><li>- Control unit for airbag - J234 defective.</li></ul> | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br/>Replace belt tensioner, driver's side<br/>Replace control unit for airbag -J234.</li></ul> |

| V.A.G 1551 print-out                                                                  | Possible causes of fault                                                                                                                                                                                                              | Fault remedy                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00655<br>Igniter for belt tensioner, passenger's side -N154 resistance value too high | <ul style="list-style-type: none"><li>- Open circuit</li><li>- Open connection in line to belt tensioner, passenger's side.</li><li>- Belt tensioner igniter defective.</li><li>- Control unit for airbag - J234 defective.</li></ul> | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br/>Close connection.<br/>Replace belt tensioner, passenger's side.<br/>Replace control unit for airbag -J234.</li></ul> |
| 00655                                                                                 |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                         |

|                                                                                                   |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Igniter for belt tensioner, passenger's side -N154<br>resistance value too low                    | <ul style="list-style-type: none"> <li>- Short circuit</li> <li>- Igniter for belt tensioner, passenger's side defective.</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace belt tensioner, passenger's side.</li> <li>Replace control unit for airbag -J234.</li> </ul> |
| 00655<br>Igniter for belt tensioner, passenger's side -N154<br>short circuit to positive terminal | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Control unit for airbag - J234 defective.</li> </ul>                                                                  | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace control unit for airbag -J234.</li> </ul>                                                    |

| V.A.G 1551 print-out                                                                  | Possible causes of fault                                                                                                                                                                    | Fault remedy                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00655<br>Igniter for belt tensioner, passenger's side -N154<br>short circuit to earth | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Igniter for belt tensioner, passenger's side defective.</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace belt tensioner, passenger's side.</li> <li>Replace control unit for airbag -J234.</li> </ul> |
| 01044<br>Control unit incorrectly encoded                                             | Control unit not coded according to vehicle configuration.                                                                                                                                  | Encode control unit for airbag -J234 accordingly.                                                                                                                                                                                                                                             |

**Vehicles 1998 ã only:**

| V.A.G 1551 print-out                                                                        | Possible causes of fault                                                                                                                                                         | Fault remedy                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01211<br>Igniter for belt tensioner behind driver's seat -N196<br>resistance value too high | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Igniter for belt tensioner - N196 defective.</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace igniter for belt tensioner -N196.</li> <li>Replace control unit for airbag -J234.</li> </ul> |
| 01211<br>Igniter for belt tensioner behind driver's seat -N196<br>resistance value too low  | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Igniter for belt tensioner - N196 defective.</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace igniter for belt tensioner -N196.</li> <li>Replace control unit for airbag -J234.</li> </ul> |
| 01211                                                                                       |                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                               |



|                                                                                          |                                                                  |                                                                                                                                                                                |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Igniter for belt tensioner behind driver's seat -N196 short circuit to positive terminal | - Wiring damaged.<br>- Control unit for airbag - J234 defective. | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace control unit for airbag -J234. |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| V.A.G 1551 print-out                                                                        | Possible causes of fault                                                                                           | Fault remedy                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01211<br>Igniter for belt tensioner behind driver's seat -N196 short circuit to earth       | - Wiring damaged.<br>- Igniter for belt tensioner - N196 defective.<br>- Control unit for airbag - J234 defective. | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace igniter for belt tensioner -N196.<br>Replace control unit for airbag -J234. |
| 01211<br>Igniter for belt tensioner behind driver's seat -N196 open circuit                 | - Wiring damaged.<br>- Igniter for belt tensioner - N196 defective.<br>- Control unit for airbag - J234 defective. | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace igniter for belt tensioner -N196.<br>Replace control unit for airbag -J234. |
| 01212<br>Igniter for belt tensioner behind passenger's seat -N197 resistance value too high | - Wiring damaged.<br>- Igniter for belt tensioner - N197 defective.<br>- Control unit for airbag - J234 defective. | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace igniter for belt tensioner -N197.<br>Replace control unit for airbag -J234. |

| V.A.G 1551 print-out                                                                                | Possible causes of fault                                                                                           | Fault remedy                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01212<br>Igniter for belt tensioner behind passenger's seat -N197 resistance value too low          | - Wiring damaged.<br>- Igniter for belt tensioner - N197 defective.<br>- Control unit for airbag - J234 defective. | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace igniter for belt tensioner -N197.<br>Replace control unit for airbag -J234. |
| 01212<br>Igniter for belt tensioner behind passenger's seat -N197 short circuit to positive circuit | - Wiring damaged.<br>- Control unit for airbag - J234 defective.                                                   | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace control unit for airbag -J234.                                              |
| 01212                                                                                               |                                                                                                                    |                                                                                                                                                                                                                             |

|                                                                                 |                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Igniter for belt tensioner behind passenger's seat -N197 short circuit to earth | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Igniter for belt tensioner - N197 defective.</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram =&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace igniter for belt tensioner -N197.</li> <li>Replace control unit for airbag -J234.</li> </ul> |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| V.A.G 1551 print-out                                                            | Possible causes of fault                                                                                                                                                         | Fault remedy                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01212<br>Igniter for belt tensioner behind passenger's seat -N197 open circuit  | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Igniter for belt tensioner - N197 defective.</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram =&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace igniter for belt tensioner -N197.</li> <li>Replace control unit for airbag -J234.</li> </ul> |
| 01217<br>Igniter for side airbag, driver's side -N199 resistance value too high | <ul style="list-style-type: none"> <li>- Open circuit</li> <li>- Side airbag unit, driver's side defective.</li> <li>- Control unit for airbag - J234 defective.</li> </ul>      | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram =&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace side airbag driver's side.</li> <li>Replace control unit for airbag -J234.</li> </ul>        |
| 01217<br>Igniter for side airbag, driver's side -N199 resistance value too low  | <ul style="list-style-type: none"> <li>- Short circuit</li> <li>- Side airbag unit, driver's side defective.</li> <li>- Control unit for airbag - J234 defective.</li> </ul>     | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram =&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace side airbag driver's side.</li> <li>Replace control unit for airbag -J234.</li> </ul>        |

| V.A.G 1551 print-out                                                    | Possible causes of fault                                                                                                                                                       | Fault remedy                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01217<br>Igniter for side airbag, driver's side -N199 short to positive | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Control unit for airbag - J234 defective.</li> </ul>                                                       | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram =&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace control unit for airbag -J234.</li> </ul>                                             |
| 01217<br>Igniter for side airbag, driver's side -N199 short to earth    | <ul style="list-style-type: none"> <li>- Wiring damaged.</li> <li>- Side airbag unit, driver's side defective.</li> <li>- Control unit for airbag - J234 defective.</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram =&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Replace side airbag driver's side.</li> <li>Replace control unit for airbag -J234.</li> </ul> |



|                                                                              |                                                                                                                                                                            |                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01218<br>Igniter for passenger's side airbag -N200 resistance value too high | <ul style="list-style-type: none"><li>- Open circuit</li><li>- Side airbag unit, passenger's side defective.</li><li>- Control unit for airbag - J234 defective.</li></ul> | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li><li>Replace airbag unit, passenger's side.</li><li>Replace control unit for airbag -J234.</li></ul> |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| V.A.G 1551 print-out                                                                  | Possible causes of fault                                                                                                                                                      | Fault remedy                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01218<br>Igniter for passenger's side airbag -N200 resistance value too low           | <ul style="list-style-type: none"><li>- Short circuit</li><li>- Side airbag unit, passenger's side defective.</li><li>- Control unit for airbag - J234 defective.</li></ul>   | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li><li>Replace airbag unit, passenger's side.</li><li>Replace control unit for airbag -J234.</li></ul> |
| 01218<br>Igniter for passenger's side airbag -N200 short circuit to positive terminal | <ul style="list-style-type: none"><li>- Wiring damaged.</li><li>- Control unit for airbag - J234 defective.</li></ul>                                                         | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li><li>Replace control unit for airbag -J234.</li></ul>                                                |
| 01218<br>Igniter for passenger's side airbag -N200 short circuit to earth             | <ul style="list-style-type: none"><li>- Wiring damaged.</li><li>- Side airbag unit, passenger's side defective.</li><li>- Control unit for airbag - J234 defective.</li></ul> | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li><li>Replace airbag unit, passenger's side.</li><li>Replace control unit for airbag -J234.</li></ul> |

| V.A.G 1551 print-out                                                                             | Possible causes of fault                                                                                                                                                                                                  | Fault remedy                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01221<br>Crash sensor for driver's side airbag (lateral acceleration sensor) -G179 open circuit  | <ul style="list-style-type: none"><li>- Open circuit</li><li>- Connector in wiring to crash sensor driver's side is open.</li><li>- Crash sensor defective.</li><li>- Control unit for airbag - J234 defective.</li></ul> | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li><li>Close connection.</li><li>Replace crash sensor -G179.</li><li>Replace control unit for airbag -J234.</li></ul> |
| 01221<br>Crash sensor for driver's side airbag (lateral acceleration sensor) -G179 short circuit | <ul style="list-style-type: none"><li>- Short in wiring to positive or earth.</li><li>- Crash sensor defective.</li><li>- Control unit for airbag - J234 defective.</li></ul>                                             | <ul style="list-style-type: none"><li>- Fault finding according to current flow diagram<br/>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li><li>Replace crash sensor -G179.</li><li>Replace control unit for airbag -J234.</li></ul>                           |

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|                                                                                                    |                                                                                                    |                                                                         |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 01221<br>Crash sensor for driver's side airbag (lateral acceleration sensor) -G179 not authorised. | - Control unit for airbag - J234 wrongly encoded.<br>- Control unit and crash sensor do not match. | - Replace control unit for airbag -J234.<br>Replace crash sensor -G179. |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|

| V.A.G 1551 print-out                                                                                                                                                                                                                                                                                                                                                                                   | Possible causes of fault                                                                                                                                      | Fault remedy                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01222<br>Crash sensor, passenger's side airbag (lateral acceleration sensor) -G180 open circuit<br><br><small>Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright © Audi AG.</small> | - Open circuit<br>- Connector in wiring to crash sensor passenger's side is open.<br>- Crash sensor defective.<br>- Control unit for airbag - J234 defective. | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Close connection.<br>Replace crash sensor -G180.<br>Replace control unit for airbag -J234. |
| 01222<br>Crash sensor, passenger's side airbag (lateral acceleration sensor) -G180 short circuit                                                                                                                                                                                                                                                                                                       | - Short in wiring to positive or earth.<br>- Crash sensor defective.<br>- Control unit for airbag - J234 defective.                                           | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace crash sensor -G180.<br>Replace control unit for airbag -J234.                      |
| 01222<br>Crash sensor, passenger's side airbag (lateral acceleration sensor) -G180 not authorised                                                                                                                                                                                                                                                                                                      | - Control unit for airbag - J234 wrongly encoded.<br>- Control unit and crash sensor do not match.                                                            | - Replace control unit for airbag -J234.<br>Replace crash sensor -G180.                                                                                                                                                            |

**All vehicles:**

| V.A.G 1551 print-out                                                                 | Possible causes of fault                                                                         | Fault remedy                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01223<br>Signal: Open central locking system                                         | - Control unit for airbag -J234 defective.                                                       | - Replace control unit for airbag - J234.                                                                                                                                                                    |
| 01228<br>Key sw. Switch off airbag, BTU -E224.<br>Open circuit.<br>Short to positive | - Open circuit<br>- Key switch -E224 defective.<br>- Control unit for airbag -J234 defective.    | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace key switch -E224.<br>Replace control unit for airbag - J234. |
| 01228<br>Key sw. Switch off airbag, BTU -E224.<br>Short to earth                     | - Wiring damaged.<br>- Key switch -E224 defective.<br>- Control unit for airbag -J234 defective. | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace key switch -E224.<br>Replace control unit for airbag - J234. |

| V.A.G 1551 print-out | Possible causes of fault | Fault remedy |
|----------------------|--------------------------|--------------|
|----------------------|--------------------------|--------------|



|                                                                                           |                                                                                                                         |                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01280 1)<br>Passenger airbag deactivated                                                  | - Passenger's airbag has been deactivated via adaption.                                                                 | - Adapt control unit for airbag -J234 accordingly.                                                                                                                                                                          |
| 01578<br>Warning lamp for passenger's airbag -K 145 short circuit to positive terminal    | - Wiring damaged.<br>- Control unit for airbag - J234 defective.                                                        | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace control unit for airbag -J234.                                              |
| 01578<br>Warning lamp for passenger's airbag -K 145 open circuit / short circuit to earth | - Wiring damaged.<br>- Warning lamp for passenger airbag -K145 defective<br>- Control unit for airbag - J234 defective. | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Replace warning lamp for passenger airbag<br>Replace control unit for airbag -J234. |
| 01588<br>Head airbag igniter, driver's side -N251<br>Resistance value too high            | - Open circuit<br>- Head airbag driver's side defective.<br>- Airbag control unit defective.                            | - Rectify open circuit in wiring<br>Replace head airbag unit (driver's side).<br>Replace airbag control unit.                                                                                                               |

1) Only airbag 7 (07.96 ä) and airbag 8. Fault message is only stored with appropriate adaption "passenger's airbag blocked".

| V.A.G 1551 print-out                                                              | Possible causes of fault                                                                               | Fault remedy                                                                                                     |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 01588<br>Head airbag igniter, driver's side -N251<br>Resistance value too low     | - Short circuit<br>- Head airbag driver's side defective.<br>- Airbag control unit defective.          | - Rectify short circuit.<br>Replace head airbag unit (driver's side).<br>Replace airbag control unit.            |
| 01588<br>Head airbag igniter, driver's side -N251<br>Short circuit to positive    | - Wiring damaged.<br>- Airbag control unit defective.                                                  | - Rectify wiring damage<br>Replace airbag control unit.                                                          |
| 01588<br>Head airbag igniter, driver's side -N251<br>Short circuit to earth       | - Wiring damaged.<br>- Head airbag driver's side defective.<br>- Airbag control unit defective.        | - Rectify wiring damage<br>Replace head airbag unit (driver's side).<br>Replace airbag control unit.             |
| 01589<br>Head airbag igniter, passenger's side -N252<br>Resistance value too high | - Open circuit<br>- Head airbag unit (passenger's side) defective.<br>- Airbag control unit defective. | - Rectify open circuit in wiring<br>Replace head airbag unit (passenger's side).<br>Replace airbag control unit. |

| V.A.G 1551 print-out                                                             | Possible causes of fault                                                                                | Fault remedy                                                                                             |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 01589<br>Head airbag igniter, passenger's side -N252<br>Resistance value too low | - Short circuit<br>- Head airbag unit (passenger's side) defective.<br>- Airbag control unit defective. | - Rectify short circuit.<br>Replace head airbag unit (passenger's side).<br>Replace airbag control unit. |

|                                                                                   |                                                                                                           |                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 01589<br>Head airbag igniter, passenger's side -N252<br>Short circuit to positive | - Wiring damaged.<br>- Airbag control unit defective.                                                     | - Rectify wiring damage<br>Replace airbag control unit.                                                 |
| 01589<br>Head airbag igniter, passenger's side -N252<br>Short circuit to earth    | - Wiring damaged.<br>- Head airbag unit (passenger's side) defective.<br>- Airbag control unit defective. | - Rectify wiring damage<br>Replace head airbag unit (passenger's side).<br>Replace airbag control unit. |
| 65535 1)<br>Control unit defective                                                |                                                                                                           | - Replace control unit for airbag -J234.                                                                |

1) Fault message appears even when control unit has been triggered three times.

**Note:**

*The fault "65535 Control unit defective" cannot be erased with fault reader V.A.G 1551!*

## 2.6 - Interrogating airbag control unit version

- Press keys -0- and -1-.

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-> Indicated on display:

|                                       |   |
|---------------------------------------|---|
| Rapid data transfer                   | Q |
| 01 - Interrogate control unit version |   |

- Confirm input with Q key.

### Vehicles ä 1998 without side airbags:

-> After about 5 seconds, the following appears on the display:

|            |            |     |
|------------|------------|-----|
| 1J0909601A | Airbag VW3 | V01 |
| Code 00065 | WSC 06812  |     |

### Explanation of the display

- ♦ 1J0909601A: Part number of airbag control unit

**Note:**

*The control units with part no. 1J0909601A are replaced as a substitute for part 8L0959655C.*

- ♦ Airbag VW3: Component designation for airbag BTU (Basic Triggering Unit)
- ♦ V01: Software version of control unit for airbag in Audi models
- ♦ Code 00065: Coding of airbag control unit. Coding table => Page 19
- ♦ WSC 06812: Workshop code

- The =>key is used to return to the basic function.

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

### Vehicles ä 1998 with side airbags and all vehicles as of MY 1998 up to production date CW 27. 99.

-> After about 5 seconds, the following appears on the display:

|            |           |          |
|------------|-----------|----------|
| 8L0959655F | Airbag 7  | AUDI D00 |
| Code 00104 | WSC 06812 |          |

**Explanation of the display**

- ♦ 8L0959655C: Part no. for control unit (front airbag)
- ♦ 8L0959655E: Part no. of airbag control unit (front and side airbags)
- ♦ 8L0959655F: Part no. of airbag control unit (front and side airbags)
- ♦ Airbag 7: Component designation for airbag BTU (Basic Triggering Unit)
- ♦ AUDI D00: Software version of control unit for Audi vehicles (control unit ident no. may also have four digits).
- ♦ Code 00104: Coding of airbag control unit. Coding table => Page 19
- ♦ WSC 06812: Workshop code

- The =>key is used to return to the basic function.

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

**Vehicles as of production date CW 27. 99.**

|            |                     |      |
|------------|---------------------|------|
| 8L0959655G | Airbag front + side | D004 |
| Code 01106 | WSC 06812           |      |

-> After about 5 seconds, the following appears on the display:

**Explanation of the display**

- ♦ 8L0959655G: Part no. of airbag control unit (front and side airbags)
- ♦ 8L0959655H: Part no. of airbag control unit (front and head airbags)

**Note:**

*For vehicles with airbag 8; the display shows Airbag front + side or Airbag Front + head instead of Airbag VW3 or Airbag 7.*

- ♦ D004: Software version of control unit for airbag in Audi models
- ♦ Code 01106: Coding of airbag control unit. Coding table => Page 19
- ♦ WSC 06812: Workshop code

- The =>key is used to return to the basic function.

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

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**2.7 - Final control diagnosis up to production date CW 27. 1999**

The final control diagnosis checks the function of the crash output. When the airbags are triggered, the central locking system switches immediately to UNLOCK and the internal central locking switch is disabled. The hazard warning lights and the interior lights are switched on.

**Note:**

- ♦ Before carrying out the final control diagnosis the central locking must be switched to "locked" (use internal switch).
- ♦ Switch interior light switch to position "door contact".
- ♦ After the Final Control Diagnosis has been completed, the central locking controls are not active until fault memory of CL control unit has been erased.

**Performing function "03 - final control diagnosis"**

-> Indicated on display

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

- Press keys 0 and 3 for the function "Final control diagnosis" and confirm entry with Q key.

-> Indicated on display

|                                     |
|-------------------------------------|
| Final control diagnosis             |
| Signal: Open central locking system |

Central locking must switch to "open".

The hazard warning lights and interior lights come on.

- Press the internal switch. The central locking system must not switch back to "lock".

#### Notes:

*After this step has been performed, fault code 01366 will be stored in the CL control unit.*

*After completing the final control diagnosis the fault memory of the CL control unit must be read and this fault must be erased => Page 30.*

-> Indicated on display

|                         |
|-------------------------|
| Final control diagnosis |
| End                     |

- Press =>key.

-> Indicated on display

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

## 2.8 - Final control diagnosis as from production date CW 27. 1999

The final control diagnosis checks the function of the crash output. When the airbags are triggered, the central locking system switches immediately to UNLOCK, the internal central locking switch is disabled, and the fuel supply is interrupted. The hazard warning lights and the interior lights are switched on.

#### Notes:

- ◆ Before carrying out the final control diagnosis the central locking must be switched to "locked" (use internal switch).
- ◆ Switch interior light switch to position "door contact".
- ◆ After the final control diagnosis has been completed, the central locking controls are not active until fault memory of CL control unit has been erased.

#### Performing function "03 - final control diagnosis"

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

- Press keys -0- and -3-.

-> Indicated on display:

|                              |   |
|------------------------------|---|
| Rapid data transfer          | Q |
| 03 - Final control diagnosis |   |

- Confirm input with Q key.

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-> Indicated on display:

Final control diagnosis  
Signal: Open central locking system

The engine must switch off.

Central locking must switch to "open".

The hazard warning lights and interior lights come on.

- Press the internal switch. The central locking system must not switch back to "lock".

**Notes:**

*After this step has been performed, fault code 01366 will be stored in the CL control unit.*

*After completing the final control diagnosis the fault memory of the CL control unit must be read and this fault must be erased => Page 30.*

*After this step has been performed, several faults will be stored in the fault memory of the engine control unit.*

*After completing the final control diagnosis the fault memory of the engine control unit must be read and this fault must be erased. Refer to the relevant engine section in the Workshop Manual in Repair group: 01 Self-diagnosis; erasing and interrogating fault memory.*

-> Indicated on display:

Final control diagnosis  
End

- Press =>key.

-> Indicated on display:

Rapid data transfer      HELP  
Select function XX

## 2.9 - Encoding airbag control unit

**Notes:**

- ♦ Control unit is not factory-coded.
- ♦ The airbag fault light always lights up when the control unit is not encoded.
- ♦ Encoding is carried out with fault reader V.A.G 1551.

If the appropriate encoding is not displayed at the V.A.G 1551 or the control unit has been replaced the encoding of the control unit is carried out as follows:

### Performing function "07 - Code control unit"

-> Indicated on display:

Rapid data transfer      HELP  
Select function XX

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- Press keys -0- and -7-.

-> Indicated on display:

Rapid data transfer      Q  
07 - Encoding control unit

- Confirm input with Q key.

-> Indicated on display:

Encoding control unit  
Enter code number XXXXX (0-32000)

- Enter encoding for airbag control unit via the keypad:

**Vehicles with control unit no. 1J0 909 601A:**

**Coding table for the airbag control unit**

| System version                                                            | Coding |
|---------------------------------------------------------------------------|--------|
| Driver and front passenger's airbag active<br>both belt tensioners active | 00065  |

**Vehicles up to production date CW 26. 1999:**

**Coding table for the airbag control unit**

| System version                                                                                       | Coding |
|------------------------------------------------------------------------------------------------------|--------|
| Vehicles with front airbags, front side airbags<br>and front belt tensioners                         | 00102  |
| Vehicles with front airbags, front side airbags,<br>front belt tensioners and 2 rear belt tensioners | 00104  |
| Vehicle with front airbags and front belt ten-<br>sioners                                            | 00002  |
| Vehicles with front airbags, front belt tension-<br>ers and 2 rear belt tensioners                   | 00004  |

**Vehicles as of production date CW 27. 1999:**

**Coding table for the airbag control unit**

| Airbag system                                                                                                                                                              | Code number |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Airbag 8 - vehicles with front airbags, front belt tensioner, two rear belt tensioners                                                                                     | 00004       |
| Airbag 8 - vehicles with front airbags, front side airbags, front belt tensioners,<br>two rear belt tensioners                                                             | 00104       |
| Airbag 8 - vehicles with front airbags, front belt tensioner, two rear belt tensioners,<br>key switch to switch off Airbag BTU                                             | 01004       |
| Airbag 8 - vehicles with front airbags, front side airbags, front belt tensioners,<br>two rear belt tensioners, key switch to switch off Airbag BTU                        | 01104       |
| Airbag 8 - vehicles with front airbags, front side airbags, front seat belt tensioners,<br>head airbag, two rear seat belt tensioners                                      | 00304       |
| Airbag 8 - vehicles with front airbags, front side airbags, front seat belt tensioners,<br>head airbag, two rear seat belt tensioners, key switch to switch off Airbag BTU | 01304       |

**All vehicles:**

-> Indicated on display (e.g. 00104):

Code control unit Q  
Enter code number 00104 (0-32000)

- Confirm input with Q key.

8L0959655G Airbag 7 AUDI D00  
Code 00102 WSC 06812

-> The display shows the control unit identification with the entered code



(e. g. 00104).

**Note:**

*Codes 00102 and 00104 for Airbag 7 can only be implemented with the control unit number "8L0959655E" or "8L0959655F".*

*Explanation of display => Page 15*

- Press =>key.

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

- Pressing keys -0- and -6- completes the function.

-> Indicated on display:

|                     |   |
|---------------------|---|
| Rapid data transfer | Q |
| 06 - End output     |   |

- Confirm input with Q key.

-> Indicated on display:

|                       |      |
|-----------------------|------|
| Rapid data transfer   | HELP |
| Enter address word XX |      |

## 2.10 - Reading measured value block

**Note:**

*The function "Read measured value block" reads the actual airbag system condition.*

### Performing function "08 - Read measured value block"

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

- Press keys -0- and -8-.

-> Indicated on display:

|                                |   |
|--------------------------------|---|
| Rapid data transfer            | Q |
| 08 - Read measured value block |   |

- Confirm input with Q key.

-> Indicated on display:

|                                |  |
|--------------------------------|--|
| Reading measured value block   |  |
| Enter display group number XXX |  |

- Enter display group number 001 and confirm input with Q key.

The measured value block which has been selected will appear in standard format. Evaluation up to production date CW 27.1999 => Page 23 .

## 2.11 - Summary of measured value blocks

Vehicles up to production date CW 27. 1999:

### Measured value block 001

| Indicated on display:                  | Display value | Designation                          |
|----------------------------------------|---------------|--------------------------------------|
| Read measured value block 1<br>1 2 3 4 | correct 1)    | 1 = Airbag, driver's side            |
|                                        | correct 1)    | 2 = Airbag, passenger's side         |
|                                        | correct 1)    | 3 = belt tensioner, driver's side    |
|                                        | correct 1)    | 4 = belt tensioner, passenger's side |

1) Example.

#### Table of readouts

|             |                     |
|-------------|---------------------|
| correct     | Resistance OK       |
| too low     | Resistance too low  |
| too high    | Resistance too high |
| to earth    | Short to earth      |
| to positive | Short to positive   |

Possible causes of fault and fault remedy => from page 5 .

### Measured value block 002

| Indicated on display:                | Display value | Designation                               |
|--------------------------------------|---------------|-------------------------------------------|
| Read measured value block 2<br>1 2 3 | correct 1)    | 1 = Rear belt tensioner, driver's side    |
|                                      | correct 1)    | 2 = Rear belt tensioner, passenger's side |
|                                      | correct 1)    | 3 = Rear belt tensioner, centre           |

1) Example.

#### Table of readouts

|             |                     |
|-------------|---------------------|
| correct     | Resistance OK       |
| too low     | Resistance too low  |
| too high 1) | Resistance too high |
| to earth    | Short to earth      |
| to positive | Short to positive   |

1) Display also possible if no belt tensioner is present.

Possible causes of fault and fault remedy => from page 5 .



## Measured value block 004

| Indicated on display:                | Display value | Designation                               |
|--------------------------------------|---------------|-------------------------------------------|
| Read measured value block 4<br>1 2 3 | Belt: yes 1)  | 1 = Rear seat belt check driver's side    |
|                                      | Belt: yes 1)  | 2 = Rear seat belt check passenger's side |
|                                      | Belt: yes 1)  | 3 = Rear seat belt check (centre)         |

1) Example.

## Table of readouts

|             |                     |
|-------------|---------------------|
| Belt: yes   |                     |
| Belt: no 2) |                     |
| correct     | Resistance OK       |
| too low     | Resistance too low  |
| too high    | Resistance too high |
| to earth    | Short to earth      |
| to positive | Short to positive   |

2) This readout will also appear if no belt interrogation is installed.

Possible causes of fault and fault remedy => from page 5.

## Measured value block 005

| Indicated on display:                  | Display value | Designation                                         |
|----------------------------------------|---------------|-----------------------------------------------------|
| Read measured value block 5<br>1 2 3 4 | correct 1)    | 1 = igniter for front side airbag, driver' s side   |
|                                        | correct 1)    | 2 = igniter for front side airbag, passenger's side |
|                                        | correct 1)    | 3 = igniter for rear side airbag, driver' s side    |
|                                        | correct 1)    | 4 = igniter for rear side airbag, passenger's side  |

1) Example.

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## Table of readouts

|             |                     |
|-------------|---------------------|
| correct     | Resistance OK       |
| too low     | Resistance too low  |
| too high 2) | Resistance too high |
| to earth    | Short to earth      |
| to positive | Short to positive   |

2) This readout will also appear even if no rear side airbags are fitted.

Possible causes of fault and fault remedy => from page 5.

Vehicles as of production date CW 27. 1999:

### Measured value block 001

| Indicated on display:                  | Display value | Designation                          |
|----------------------------------------|---------------|--------------------------------------|
| Read measured value block 1<br>1 2 3 4 | correct 1)    | 1 = Airbag, driver's side            |
|                                        | correct 1)    | 2 = Airbag, passenger's side         |
|                                        | correct 1)    | 3 = belt tensioner, driver's side    |
|                                        | correct 1)    | 4 = belt tensioner, passenger's side |

1) Example.

### Table of readouts

|             |                     |
|-------------|---------------------|
| correct     | Resistance OK       |
| too low     | Resistance too low  |
| too high    | Resistance too high |
| to earth    | Short to earth      |
| to positive | Short to positive   |

Possible causes of fault and fault remedy => from page 5.

### Measured value block 002

| Indicated on display:                  | Display value | Designation                               |
|----------------------------------------|---------------|-------------------------------------------|
| Read measured value block 2<br>1 2 3 4 | correct 1)    | 1 = Rear belt tensioner, driver's side    |
|                                        | correct 1)    | 2 = Rear belt tensioner, passenger's side |
|                                        | correct 1)    | 3 = Rear belt tensioner, centre           |
|                                        | too high 1)   | 4 = Disregard display zone                |

1) Example.

### Table of readouts

|             |                     |
|-------------|---------------------|
| correct     | Resistance OK       |
| too low     | Resistance too low  |
| too high 2) | Resistance too high |
| to earth    | Short to earth      |
| to positive | Short to positive   |

2) Display also possible if no belt tensioner is present.

Possible causes of fault and fault remedy => from page 5.

### Measured value block 004

| Indicated on display:       | Display value | Designation                            |
|-----------------------------|---------------|----------------------------------------|
| Read measured value block 4 | Belt: yes 1)  | 1 = Rear seat belt check driver's side |



| Indicated on display: | Display value | Designation                               |
|-----------------------|---------------|-------------------------------------------|
| 1 2 3                 | Belt: yes 1)  | 2 = Rear seat belt check passenger's side |
|                       | Belt: yes 1)  | 3 = Rear seat belt check (centre)         |

1) Example.

#### Table of readouts

|             |                     |
|-------------|---------------------|
| Belt: yes   |                     |
| Belt: no    |                     |
| correct     | Resistance OK       |
| too low     | Resistance too low  |
| too high    | Resistance too high |
| to earth    | Short to earth      |
| to positive | Short to positive   |

Possible causes of fault and fault remedy => from page 5.

#### Measured value block 006

| Indicated on display:                  | Display value | Designation                                         |
|----------------------------------------|---------------|-----------------------------------------------------|
| Read measured value block 6<br>1 2 3 4 | correct 1)    | 1 = igniter for front side airbag, driver' s side   |
|                                        | correct 1)    | 2 = igniter for front side airbag, passenger's side |
|                                        | correct 1)    | 3 = igniter for rear side airbag, driver' s side    |
|                                        | correct 1)    | 4 = igniter for rear side airbag, passenger's side  |

1) Example.

#### Table of readouts

|             |                     |
|-------------|---------------------|
| correct     | Resistance OK       |
| too low     | Resistance too low  |
| too high 2) | Resistance too high |
| to earth    | Short to earth      |
| to positive | Short to positive   |

2) This readout will also appear even if no rear side airbags are fitted.

Possible causes of fault and fault remedy => from page 5.

#### Measured value block 008

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| Indicated on display:                  | Display value | Designation                                                |
|----------------------------------------|---------------|------------------------------------------------------------|
| Read measured value block 8<br>1 2 3 4 | correct 1)    | 1 = Igniter front side airbag, second stage, driver's side |
|                                        | correct 1)    | 2 = Igniter for airbag, second stage, passenger's side     |
|                                        | correct 1)    | 3 = igniter for rear head airbag, driver' s side           |

| Indicated on display: | Display value | Designation                                         |
|-----------------------|---------------|-----------------------------------------------------|
|                       | correct 1)    | 4 = igniter for rear head airbag, passenger' s side |

1) Example.

#### Table of readouts

|             |                     |
|-------------|---------------------|
| correct     | Resistance OK       |
| too low     | Resistance too low  |
| too high 2) | Resistance too high |
| to earth    | Short to earth      |
| to positive | Short to positive   |

2) This display is also possible if no second stage or head airbag is present.

Possible causes of fault and fault remedy => from page 5 .

## 2.12 - Adaption: Disabling and activating passenger airbag unit

With the function adaption the passenger airbag may be disabled and reactivated.

### Performing function "10 - Adaption"

-> Indicated on display:

Rapid data transfer      HELP  
Select function XX

- Press keys -1- and -0-.

-> Indicated on display:

Rapid data transfer      Q  
10 - Adaption

- Confirm input with Q key.

-> Indicated on display:

Adaption  
Feed in channel No.

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- Press keys -0- and -1-.

-> Indicated on display:

Adaption      Q  
Enter channel number 01

- Confirm input with Q key.

-> Indicated on display:

The display will show the current status of the passenger's airbag (e.g. blocked).

Channel 1      Adaption 1  
Pass.-airbag disabled WSC 06812

0 - Passenger airbag active



## 1 - Passenger airbag deactivated

- Press ➡key.

### Deactivating passenger's airbag

Order a label with the registration card according to the individual components catalogue.

-> Indicated on display:

Channel 0      Adaption 1  
Enter adaption value XXXXX

- Enter adaption value 00001.

-> Indicated on display:

Channel 1      Adaption 0      Q  
Enter adaption value 00001

- Confirm input with Q key.

-> Indicated on display:

Channel 1      Adaption 1      Q  
Pass.-airbag disabled      WSC 06812

- Confirm input with Q key.

-> Indicated on display:

Channel 1      Adaption 1      Q  
Store changed value?

- Confirm input with Q key.

-> Indicated on display:

Channel 1      Adaption 1  
Changed value is stored

- Press the ➡ key to terminate the adaption procedure.

-> Indicated on display:

Rapid data transfer      HELP  
Select function XX

- Switch ignition off.
- Unplug connectors for fault reader V.A.G 1551.
- Switch the ignition on.

***The warning lamp (K75) initially comes on for approx. 4 seconds and then flashes for a further 12 seconds. This indicates that the passenger airbag has been disabled. Customers should be made aware of the different warning lamp signal.***

- Attach sticker (passenger airbag not activated) to lid of glove compartment).

The registration card enclosed with the sticker must be completed after deactivating the passenger's side airbag unit and sent to the relevant sales centre or importer for registration. Disabling of the passenger airbag is to be confirmed by the workshop in the service schedule.

The second registration card must be carefully retained by the customer until the front passenger's module is reactivated (Vehicle wallet).

### Activating passenger's airbag

-> Indicated on display:

Channel 1      Adaption 1  
 Enter adaption value XXXXX

- Press key -0- five times.

-> Indicated on display:

Channel 1      Adaption 1      Q  
 Enter adaption value 00000

- Confirm input with Q key.

-> Indicated on display:

Channel 1      Adaption 0      Q  
 Pass. airbag activated      WSC 06812

- Confirm input with Q key.

-> Indicated on display:

Channel 1      Adaption 0      Q  
 Store changed value?

- Confirm input with Q key.

-> Indicated on display:

Channel 1      Adaption 0  
 Changed value is stored

- Press the ⇒ key to terminate the adaption procedure.

-> Indicated on display:

Rapid data transfer      HELP  
 Select function XX

- Remove label (passenger's airbag not functional) from lid of glove compartment.

The registration card supplied to the customer must be completed after activating the passenger's side airbag unit and sent to the relevant sales centre or importer for registration. Activation of the passenger airbag unit by the workshop must be confirmed in the service schedule.

## 3 - Self-diagnosis of central locking system

### 3.1 - Self-diagnosis of central locking system

### 3.2 - General notes

The new generation of central locking has self-diagnosis capability. Using the fault memory, the final control diagnosis and the measured value blocks simplifies fault finding. In addition, the V.A.G 1551 fault reader can be used to encode the associated central locking version.

The new central locking system always permits the "automatic open" or "automatic close" functions. The "automatic close" function permits all opened windows and an opened sliding roof to be closed by holding the key in the close position until everything is closed.

When using "automatic open" hold the key in the open position until the windows are open.

The "automatic close" function cannot be executed on the tailgate lock.



The central locking has two pneumatic circuits. In central locking not equipped with remote control only the tank flap is connected to the first circuit and if radio remote control is fitted the driver door and the tank flap are connected to the first circuit. The remaining locking positions are connected to the second circuit.

If security central locking is fitted, unlocking the driver or front passenger door once opens only this door and the first pneumatic circuit. If a further unlock command occurs within 5 seconds, the second pneumatic control circuit is also activated and the entire vehicle opened.

If the tailgate lock cylinder is actuated only once, all doors remain locked. The tailgate re-locks automatically after approx. 5 seconds.

The interior lighting is dimmed on or off within approx. 1.5 seconds.

The luggage compartment lighting is controlled by the central locking system pump via the tailgate contact switch. If the tailgate is open, the lighting is switched off after exceeding a speed threshold (approx. 5 km/h) or after 10 minutes.

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The new remote control system is now a radio remote control system. In vehicles with radio remote control, the receiver is integrated in the central locking pump. The antenna for the radio remote control is integrated in the wiring loom.

If radio remote control is fitted, the "Comfort open" function only affects the windows. Press and hold the "Open Switch" to use this feature.

The "Comfort close" function can be used for the windows and the sunroof. Press and hold the "Close Switch" to use this feature.

The central locking system re-locks automatically if the doors or tailgate/ boot lid are not opened within 60 seconds of opening the central locking.

The central locking cannot be opened using the interior switch if the anti-theft alarm system is armed.

Vehicles with anti-theft alarm systems are always equipped with an ultrasonic interior monitor. All that is required is appropriate encoding of the central locking system => Page 38.

It is possible to confirm that the anti-theft alarm system has been armed when locking the central locking. One form of confirmation may be a brief activation of the flashing telltale. The central locking can also be coded so that there is no confirmation.

Confirmation of the radio remote control can be indicated by flashing turn signal lamps.

### 3.3 - Initiating self-diagnosis of the central locking system

#### Test requirements:

- ♦ Voltage supply and fuses for the relevant systems OK.

=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder

- ♦ Connect fault reader V.A.G 1551  
=> Page 1.

#### Notes:

- ♦ If the display remains blank, check voltage supply to V.A.G 1551 according to current flow diagram.
  - ♦ Additional operating instructions can be called up with the fault reader HELP key.
  - ♦ The ➡ key is used for the continuation of the program sequence.
  - ♦ If an incorrect entry is made, press the C-key to escape.
- Switch on printer with the Print key (indicator lamp in key lights up).

- Press key 1 for "Rapid data transfer".

-> Indicated on display:

Rapid data transfer      HELP  
 Enter address word XX

#### Address word for the central locking: 35

- Press keys -3- and -5-.

-> Indicated on display:

Rapid data transfer      Q  
 35 - Central locking system

- Confirm input with Q key.

-> Indicated on display:

Rapid data transfer  
 Tester sends address word 35

#### Vehicles ä 1997:

-> After approx. 5 seconds the display indicates, for example:

8L0862257 CL Pump, ATW, Radio D03  
 Code 10056      WSC 06812

#### Vehicles 1998 ä:

-> After approx. 5 seconds the display indicates, for example:

8L0862257G CL Pump, ATW, Radio D04  
 Code 13130      WSC 06812

#### Vehicles 18.00 ä:

-> After approx. 5 seconds the display indicates, for example:

8D0862257 CL Pump, ATW, Radio D12  
 Code 15179      WSC 06812

#### All vehicles:

- Press =>key.

-> Indicated on display:

Rapid data transfer      HELP  
 Select function XX

#### Note:

Press HELP key to obtain a printout of available functions.

#### Self-diagnosis functions

The following functions are possible:

01 - Interrogating control unit version => Page 35 .

02 - Interrogating fault memory => Page 30 .  
5 fault memory code. Copyright for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

03 - Final control diagnosis=> Page 36 .



05 - Erasing fault memory => Page 56 .

06 - End output => Page 57 .

07 - Coding control unit => Page 38 .

08 - Read measured value block => Page 41 .

### 3.4 - Interrogating fault memory

#### Note:

*The displayed fault information is not constantly updated but only when initiating self-diagnosis or with function 05 "Erase fault memory".*

- Switch on printer with the Print key (indicator lamp in key lights up).

#### Performing function 02 - "Interrogating fault memory"

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-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

- Press keys -0- and -2-.

-> Indicated on display:

|                               |   |
|-------------------------------|---|
| Rapid data transfer           | Q |
| 02 - Interrogate fault memory |   |

- Confirm input with Q key.

-> The number of faults stored appears on the display.

|                    |
|--------------------|
| X fault recognised |
|--------------------|

The stored faults are displayed and printed out one after the other.

- Check printout against fault table and rectify all faults as necessary => Page 31 .

-> If the message "No fault recognised" is displayed, the program returns to its start position when pressing the =>key.

|                     |
|---------------------|
| No fault recognised |
|---------------------|

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

If something else is displayed:

=> Fault reader operating instructions

- Erase fault memory (function 05)  
=> Page 56 .
- End output (function 06) => Page 57
- Unplug diagnostic connector.

### 3.5 - Fault table for the central locking

#### Notes:

- ♦ The following table lists all the faults, with the corresponding 5-digit code numbers, that can be recognised by the central locking control unit and printed out by the V.A.G 1551.
- ♦ Fault codes appear only on print-out.
- ♦ Before replacing a component shown as faulty, check wiring and connections to component as well as earth connections according to current flow diagram.
- ♦ Once repairs have been completed, the fault memory is always to be interrogated again with fault reader V.A.G 1551 and erased. The vehicle is then to be relocked (with key or remote) and the fault memory is re-interrogated.
- ♦ All static and sporadic faults are stored in the fault memory:  
When a fault occurs it is immediately identified as a static fault. If fault does not occur again it is registered as a sporadic fault. "/SP" appears on the right of the display.
- ♦ When ignition is switched on, all existing faults are automatically reclassified as sporadic faults and will only register as static faults if they still occur after testing.
- ♦ Sporadic faults which no longer occur after 50 opening cycles are erased automatically.
- ♦ The 3-digit fault type number appearing next to the fault code is a data code which can be ignored.

| V.A.G 1551 print-out                      | Possible causes of fault                                                   | Fault remedy                                   |
|-------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|
| 00955<br>Key 1<br>Adaption limit exceeded | - Key not matched<br>- Key operated more than 200 times while out of range | - Perform key matching procedure<br>=> Page 44 |
| 00956<br>Key 2<br>Adaption limit exceeded | - Key not matched<br>- Key operated more than 200 times while out of range | - Perform key matching procedure<br>=> Page 44 |
| 00957<br>Key 3<br>Adaption limit exceeded | - Key not matched<br>- Key operated more than 200 times while out of range | - Perform key matching procedure<br>=> Page 44 |
| 00958<br>Key 4<br>Adaption limit exceeded | - Key not matched<br>- Key operated more than 200 times while out of range | - Perform key matching procedure<br>=> Page 44 |

| V.A.G 1551 print-out                              | Possible causes of fault                                               | Fault remedy                                                                                                                                                                                                                                                   |
|---------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00991<br>Interior lighting<br>Short to positive   | - Short in wiring or in connections                                    | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder                                                                                                                           |
| 01360<br>Open switch for ATW<br>Short to earth 1) | - Short to earth in the wiring.<br>- Door contact switch -F2 defective | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Check switch -F2 and replace, if necess.<br>=> General Body Assembly, Exterior; Repair group 57; Front door Front door |
| 01361                                             |                                                                        |                                                                                                                                                                                                                                                                |



|                                           |                                                                        |                                                                                                                                                                                                                                                                   |
|-------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Close switch for ATW<br>Short to earth 1) | - Short to earth in the wiring.<br>- Door contact switch -F2 defective | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Check switch -F2 and replace, if necessary.<br>=> General Body Assembly, Exterior; Repair group 57; Front door Front door |
|-------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1) The fault is stored, if earth is applied for more than 1 minute, e. g. resulting from incorrect operation of the central locking. Only perform the fault remedy procedure if there are malfunctions otherwise simply erase the fault memory =>Page 56 .

| V.A.G 1551 print-out                                                               | Possible causes of fault                                                             | Fault remedy                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01362<br>Close tailgate switch -F124<br>Short to earth 1)                          | - Short to earth in the wiring.<br>- Switch -F124 defective                          | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Check switch -F124 and replace, if necessary.<br>=> General Body Assembly, Exterior; Repair group 55; Boot lid Boot lid |
| 01363<br>Switch for CL, driver door -F59<br>Implausible signal                     | - This display can appear depending on the system.<br>Switch -F59 is not defective.  | - Ignore fault display and erase the fault memory => Page 56                                                                                                                                                                                                    |
| 01364<br>Central locking switch, front passenger door - F114<br>Implausible signal | - This display can appear depending on the system.<br>Switch -F114 is not defective. | - Ignore fault display and erase the fault memory => Page 56                                                                                                                                                                                                    |

1) The fault is stored, if earth is applied for more than 1 minute, e. g. resulting from incorrect operation of the central locking. Only perform the fault remedy procedure if there are malfunctions otherwise simply erase the fault memory =>Page 56 .

| V.A.G 1551 print-out                                                  | Possible causes of fault                                    | Fault remedy                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01365<br>Lock/unlock internal switch/lock switch<br>Short to earth 1) | - Short to earth in the wiring.<br>- Switch -E150 defective | - Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Check switch -E150 and replace, if necessary<br>=> General Body Assembly, Interior; Repair group 70; Front door trims (5 door); Removing central locking switch<br>Front door trims (5 door); Removing central locking switch |
| 01365                                                                 |                                                             |                                                                                                                                                                                                                                                                                                                                                                       |

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|                                                              |                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lock/unlock internal switch/lock switch<br>Short to positive | <ul style="list-style-type: none"> <li>- Short in the wiring</li> <li>- Switch -E150 defective</li> </ul> | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> <li>Check switch -E150 and replace, if necessary</li> <li>=&gt; General Body Assembly, Interior; Repair group 70; Front door trims (5 door); Removing central locking switch</li> <li>Front door trims (5 door); Removing central locking switch</li> </ul> |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1) The fault is stored, if earth is applied for more than 1 minute, e. g. resulting from incorrect operation of the central locking. Only perform the fault remedy procedure if there are malfunctions otherwise simply erase the fault memory =>Page 56 .

| V.A.G 1551 print-out                                                                  | Possible causes of fault                                                                                                                                                                                                                                                                                                        | Fault remedy                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01366<br>Opening via crash signal<br>Short to earth<br>Open circuit/short to positive | <ul style="list-style-type: none"> <li>- Final control diagnosis on airbag control unit -J234 or on control unit for central locking -J429 has been performed</li> <li>- Airbag control unit -J234 triggered</li> <li>- Short or open circuit in wiring between airbag control unit and central locking control unit</li> </ul> | <ul style="list-style-type: none"> <li>- Read fault memory of airbag control unit -J234</li> <li>Delete fault memory =&gt; Page 56</li> <li>Check wiring and connections between airbag control unit and central locking control unit according to current flow diagram and repair if necessary</li> <li>=&gt; Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder</li> </ul> |
| 01367<br>Switching off of central locking pump.                                       | <ul style="list-style-type: none"> <li>- Insufficient pressure in the pneumatic lines.</li> <li>- Central locking pump defective</li> </ul>                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>- Check pneumatic lines for leaks. Change central locking pump</li> <li>Check all control elements of central locking and replace, if necessary.</li> <li>=&gt; General Body Assembly, Exterior; Repair group 57; Central locking</li> <li>Central locking</li> </ul>                                                                                           |

| V.A.G 1551 print-out              | Possible causes of fault                                                                                                                                                                                            | Fault remedy                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01368<br>Alarm from boot switch   | <ul style="list-style-type: none"> <li>- ATW has triggered as a result of unauthorised opening of the tailgate.</li> <li>- Contact switch in tailgate/boot lid - F123 defective.</li> <li>- False alarm.</li> </ul> | <ul style="list-style-type: none"> <li>- Erase fault memory</li> <li>Check contact switch -F123 and replace if necessary.</li> <li>=&gt; General Body Assembly, Exterior; Repair group 55; Boot lid/tailgate; Removing and installing boot lid/tailgate lock</li> <li>Boot lid/tailgate; Removing and installing boot lid/tailgate lock</li> </ul> |
| 01369<br>Alarm from bonnet switch | <ul style="list-style-type: none"> <li>- ATW has triggered as a result of unauthorised opening of the bonnet</li> <li>- Switch bonnet lid -F120 defective.</li> <li>- False alarm.</li> </ul>                       | <ul style="list-style-type: none"> <li>- Erase fault memory</li> <li>Check contact switch -F120 and replace if necessary.</li> <li>=&gt; General Body Assembly, Exterior; Repair group 55; Bonnet</li> <li>Bonnet</li> </ul>                                                                                                                       |
| 01370                             |                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |



|                                               |                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm from interior monitor<br>Short to earth | <ul style="list-style-type: none"> <li>- ATW has triggered as a result of interior monitor signal</li> <li>- Control unit for ultrasonic sensors - J347 defective</li> <li>- Short circuit in wiring connection between control unit for ultrasonic sensors and CL control unit.</li> <li>- False alarm.</li> </ul> | <ul style="list-style-type: none"> <li>- Erase fault memory</li> </ul> Fault-finding after self-diagnosis ultrasonic interior monitor=> Page 46<br>Check wiring and connections between ultrasonic sensors control unit and central locking control unit according to current flow diagram and repair if necessary<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| V.A.G 1551 print-out                                                        | Possible causes of fault                                                                                                                                                                                                                 | Fault remedy                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01371<br>Alarm triggered by driver's door contact switch.                   | <ul style="list-style-type: none"> <li>- ATW has triggered as a result of unauthorised opening of driver's door.</li> <li>- Door contact switch -F2 defective</li> <li>- False alarm.</li> </ul>                                         | <ul style="list-style-type: none"> <li>- Erase fault memory</li> </ul> Check contact switch -F2 and replace if necessary.<br>=> General Body Assembly, Exterior; Repair group 57; Front door Front door               |
| 01372<br>Alarm triggered by rear door contact switch/ front passenger door. | <ul style="list-style-type: none"> <li>- ATW has triggered as a result of unauthorised opening of front passenger door and/ or rear doors</li> <li>- Door contact switches -F3, -F10, -F11 defective.</li> <li>- False alarm.</li> </ul> | <ul style="list-style-type: none"> <li>- Erase fault memory</li> </ul> Check and, if necessary, replace contact switches -F3, -F10, -F11<br>=> General Body Assembly, Exterior; Repair group 57; Front door Rear door |
| 01373<br>Alarm from radio earth contact                                     | <ul style="list-style-type: none"> <li>- ATW has triggered as a result of unauthorised removal of radio.</li> <li>- Earth connection for ATW is interrupted</li> <li>- False alarm.</li> </ul>                                           | <ul style="list-style-type: none"> <li>- Erase fault memory</li> </ul> Establish earth connection.                                                                                                                    |

| V.A.G 1551 print-out                                       | Possible causes of fault                                                                                                                                                                                                                                                          | Fault remedy                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01374<br>Alarm from terminal 15                            | <ul style="list-style-type: none"> <li>- ATW has triggered as a result of unauthorised starting (short-circuiting).</li> <li>- Short-circuit between terminals 30 and 15.</li> <li>- False alarm.</li> </ul>                                                                      | <ul style="list-style-type: none"> <li>- Erase fault memory</li> </ul> Fault finding according to current flow diagram<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder                                                                                                                                                                                                                                                  |
| 01389<br>Open switch for tailgate -F124.<br>Short to earth | <ul style="list-style-type: none"> <li>- Short to earth in the wiring.</li> <li>- Switch for tailgate -F124 defective.</li> </ul>                                                                                                                                                 | <ul style="list-style-type: none"> <li>- Fault finding according to current flow diagram</li> </ul> => Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Check and, if necessary, replace tailgate switch -F124 in tailgate lock<br>=> General Body Assembly, Exterior; Repair group 55; Boot lid/tailgate; Removing and installing boot lid/tailgate lock Boot lid/tailgate; Removing and installing boot lid/tailgate lock |
| 65535                                                      | Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG. |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                        |                                                |                                                                                                                                                                                                                                   |
|------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control unit defective | - Central locking control unit -J429 defective | - Replace central locking control unit - J429<br>=> General Body Assembly, Exterior; Repair group 57; Central locking; Removing and installing central locking pump Central locking; Removing and installing central locking pump |
|------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.6 - Interrogating control unit version

-> Indicated on display:

|                                           |      |
|-------------------------------------------|------|
| Rapid data transfer<br>Select function XX | HELP |
|-------------------------------------------|------|

- Press keys -0- and -1-.

-> Indicated on display:

|                                                              |   |
|--------------------------------------------------------------|---|
| Rapid data transfer<br>01 - Interrogate control unit version | Q |
|--------------------------------------------------------------|---|

- Confirm input with **Q key**

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**Vehicles ä 1997:**

-> Indicated on display:

|                                                           |
|-----------------------------------------------------------|
| 8L0862257 CL Pump, ATW, Radio Dxx<br>Code 10056 WSC 06812 |
|-----------------------------------------------------------|

#### Explanation of the display

- ◆ 8L0862257: Number of the central locking control unit (also refer to parts list)
- ◆ CL Pump, ATW, Radio: Component designation
- ◆ Dxx: Software version
- ◆ Code 10056: Coding => Page **38**
- ◆ WSC 06812: Workshop code

- Press =>key.

**Vehicles 1998 ä:**

-> Indicated on display:

|                                                            |
|------------------------------------------------------------|
| 8L0862257G CL Pump, ATW, Radio Dxx<br>Code 13130 WSC 06812 |
|------------------------------------------------------------|

#### Explanation of the display

- ◆ 8L0862257G: Number of the central locking control unit (also refer to parts list)
- ◆ CL Pump, ATW, Radio: Component designation
- ◆ Dxx: Software version
- ◆ Code 13130: Coding => Page **38**
- ◆ WSC 06812: Workshop code

- Press =>key.

**Vehicles 18.00 ä:**

-> Indicated on display:

|                                                           |
|-----------------------------------------------------------|
| 8D0862257 CL Pump, ATW, Radio Dxx<br>Code 15179 WSC 06812 |
|-----------------------------------------------------------|



### Explanation of the display

- ♦ 8D0862257: Number of the central locking control unit (also refer to parts list)
- ♦ CL Pump, ATW, Radio: Component designation
- ♦ Dxx: Software version
- ♦ Code 15179: Coding => Page 38
- ♦ WSC 06812: Workshop code

- Press =>key.

### All vehicles:

-> If the display shows one of the messages reproduced here, run through the fault-finding procedure as described in the Fault-Finding Program for diagnosis wiring.

Rapid data transfer      HELP  
No reply from control unit

=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder

Rapid data transfer      HELP  
Communication problem

Rapid data transfer      HELP  
K wire not switching to earth

Rapid data transfer      HELP  
K wire not switched to positive

-> Indicated on display:

Rapid data transfer      HELP  
Select function XX

## 3.7 - Final control diagnosis

### Notes:

- ♦ The final control diagnosis may only be performed with the vehicle stationary and the engine not running!
- ♦ Any faults identified by the final control diagnosis must be traced and rectified!

The final control diagnosis activates the following elements in sequence:

- ♦ Generates alarm trigger (the alarm is triggered in turn via the alarm horn and the hazard warning lights)
- ♦ Activates interior monitor (will also be activated if interior monitor not fitted)
- ♦ Simulates a crash signal (activation of hazard warning lights for checking crash signal).

### Performing function "03 - final control diagnosis"

- Press keys -0- and -3-.

-> Indicated on display:

Rapid data transfer      Q  
03 - Final control diagnosis

- Confirm input with Q key.

-> Indicated on display:

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Final control diagnosis  
 Cause alarm to trigger

The alarm is triggered in turn via the alarm horn and the hazard warning lights.

**Note:**

*If no ATW is fitted, the hazard warning lights only are actuated.*

- Press ⇒key.

-> Indicated on display:

Final control diagnosis  
 initiate next final control: - press  
☐

- Press ⇒key.

-> Indicated on display:

Final control diagnosis  
 Activate interior monitor  
☐

The central locking control unit transmits a signal which activates the interior monitor (if fitted).

**Notes:**

- ◆ The system requires a waiting time of 30 sec after activation of interior monitor.
- ◆ On activation of alarm an entry is made in the fault memory of the central locking control unit "1370; Alarm from interior monitor" and in the ultrasonic sensors control unit "Alarm from sensor for ATW; front left, front right, rear left, rear right".
- ◆ The faults in the fault memory of the relevant control unit must be read out and erased.

- Press ⇒key.

-> Indicated on display:

Final control diagnosis  
 initiate next final control: - press  
☐

- Press ⇒key.

-> Indicated on display:

Final control diagnosis  
 Simulate crash signal

Switching on the hazard warning lights.

**Notes:**

- ◆ The fault "1366, Opened via crash signal" is stored in the fault memory for the central locking control unit.
- ◆ Final control diagnosis is to be repeated with airbag control unit. When final control diagnosis of airbag control unit has been carried out, the fault "01366 Opening via crash signal" is also stored in the central locking control unit.
- ◆ The fault must be called up in the fault memory for the central locking control system=> Page 56 .

- Press ⇒key.

-> Indicated on display:

Final control diagnosis  
 End

- Press ⇒key.



This returns testing unit to basic function mode.

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

### 3.8 - Encoding control unit

The four individual central locking versions can be encoded according to the available function/ equipment versions using the code.

Central locking versions:

- ♦ Only central locking
- ♦ Central locking with radio remote control
- ♦ Central locking with anti-theft alarm system
- ♦ Central locking with radio remote control and anti-theft alarm system

#### Notes:

- ♦ The basic functions of the central locking versions are listed in a standard coding table.
- ♦ Other encoding options are possible on request => Page 40 .

#### Performing function "07 - Code control unit"

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

- Press keys -0- and -7-.

-> Indicated on display:

|                            |   |
|----------------------------|---|
| Rapid data transfer        | Q |
| 07 - Encoding control unit |   |

- Confirm input with Q key.

-> Indicated on display:

|                        |           |
|------------------------|-----------|
| Encode control unit    |           |
| Enter code number XXXX | (0-32000) |

- Enter coding of the central locking control unit with keypad in line with table:

e. g.: 15179 (CL with ATW/radio) - vehicles 18.00 ä => Page 39 .

-> Indicated on display:

|                   |           |
|-------------------|-----------|
| Code control unit | Q         |
| Enter code 13130  | (0-32000) |

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- Confirm input with Q key.

|                                   |
|-----------------------------------|
| 8D0862257 CL Pump, ATW, Radio D12 |
| Code 15179 WSC 06812              |

-> The display shows the control unit identification (also refer to parts list) with the entered code.

#### Note:

Explanation of display =>Page 35 .

- Press =>key.

-> Indicated on display:

|                                                     |
|-----------------------------------------------------|
| Rapid data transfer      HELP<br>Select function XX |
|-----------------------------------------------------|

- Pressing keys -0- and -6- completes the function.

-> Indicated on display:

|                                               |
|-----------------------------------------------|
| Rapid data transfer      Q<br>06 - End output |
|-----------------------------------------------|

- Confirm input with Q key.

-> Indicated on display:

|                                                        |
|--------------------------------------------------------|
| Rapid data transfer      HELP<br>Enter address word XX |
|--------------------------------------------------------|

### 3.9 - Standard coding table for vehicles > 1997:

| Model   | Central locking version                                                           | Standard coding |
|---------|-----------------------------------------------------------------------------------|-----------------|
| Audi A3 | - Vehicles with central locking only                                              | 00000           |
|         | - Vehicles with central locking and anti-theft alarm system                       | 01288           |
|         | - Vehicles with central locking and radio remote control                          | 08768           |
|         | - Vehicles with central locking, anti-theft alarm system and radio remote control | 10056           |

### 3.10 - Standard coding table for vehicles 1998 > :

| Model   | Central locking version                                                           | Standard coding |
|---------|-----------------------------------------------------------------------------------|-----------------|
| Audi A3 | - Vehicles with central locking only                                              | 00000           |
|         | - Vehicles with central locking and anti-theft alarm system                       | 00266           |
|         | - Vehicles with central locking and radio remote control                          | 12864           |
|         | - Vehicles with central locking, anti-theft alarm system and radio remote control | 13130           |

### 3.11 - Standard coding table for vehicles 18.00 ä:

| Model   | Central locking version                                                           | Standard coding |
|---------|-----------------------------------------------------------------------------------|-----------------|
| Audi A3 | - Vehicles with central locking only                                              | 02049           |
|         | - Vehicles with central locking and anti-theft alarm system                       | 02315           |
|         | - Vehicles with central locking and radio remote control                          | 14913           |
|         | - Vehicles with central locking, anti-theft alarm system and radio remote control | 15179           |

**Notes:*****The coding for vehicles as of CW 18.00 includes:***

- Modified door and window lifter logic. As soon as the driver's door is opened when "terminal 15 off", no window lifters can be actuated.
- When unlocking the tailgate mechanically (via tailgate lock), the tailgate unlocks and opens. The tailgate can therefore be opened without actuating the soft touch function.

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**Code 13130 includes the following:**

|                                                              |         |
|--------------------------------------------------------------|---------|
| Radio remote control is activated                            | - 8192  |
| Comfort closing/locking via radio remote control             | - 64    |
| Hazard warning actuation on opening via radio remote control | - 4096  |
| Hazard warning actuation on closing via radio remote control | - 512   |
| Tailgate/boot lid logic (ATW)                                | - 256   |
| Anti-theft alarm (ATW) is activated                          | - 8     |
| Hazard warning actuation on activation of anti-theft alarm   | - 2     |
| Total:                                                       | - 13130 |

**Code 15179 includes the following:**

|                                                                                                             |         |
|-------------------------------------------------------------------------------------------------------------|---------|
| Radio remote control is activated                                                                           | 8192    |
| Comfort closing/locking via radio remote control                                                            | + 64    |
| Hazard warning actuation on opening via radio remote control                                                | + 4096  |
| Hazard warning actuation on closing via radio remote control                                                | + 512   |
| Window lifter logic, USA                                                                                    | + 2048  |
| Tailgate/boot lid logic (ATW)                                                                               | + 256   |
| Anti-theft alarm (ATW) is activated                                                                         | + 8     |
| Hazard warning actuation on activation of anti-theft alarm                                                  | + 2     |
| Tailgate release mechanism (when unlocking the tailgate via the lock the soft touch motor is also actuated) | + 1     |
| Total:                                                                                                      | - 15179 |

**All vehicles:**

In addition to the basic encoding customers can be offered the following extras:

In order to activate the following extras, the corresponding basic coding must be added to the following figure.

|                                                                 |                        |
|-----------------------------------------------------------------|------------------------|
| - Security central locking (SCL)                                | + 4                    |
| - Automatic locking of vehicle as of a speed of approx. 15 km/h | + 32<br>(with SCL +36) |

The value 4 should be added to the current code for SCL and the value 32 for speed-related locking.

e.g. CL pump with ATW/ radio and SCL (15179 + 4 = 15183).

**Note:**

*The function of the security central locking system (SCL) is as follows (for locked vehicle):*

*Once-only actuation of the CL system (with key or radio remote control system) releases the driver's door and filler neck compartment lid, whilst all other doors and the tailgate/boot lid remain locked.*

*Immediate renewed actuation of the CL system releases the remaining doors and the tailgate/boot.*

## 3.12 - Reading measured value block

**Note:**

*The function "Read measured value block" can be used to determine the current status of the system.*

### Performing function "08 - Read measured value block"

-> Indicated on display:

|                     |      |
|---------------------|------|
| Rapid data transfer | HELP |
| Select function XX  |      |

- Press keys -0- and -8-.

-> Indicated on display:

|                                |   |
|--------------------------------|---|
| Rapid data transfer            | Q |
| 08 - Read measured value block |   |

- Confirm input with Q key.

-> Indicated on display:

|                                |
|--------------------------------|
| Reading measured value block   |
| Enter display group number XXX |

- Enter display group number 001 and confirm input with Q key.

The measured value block which has been selected will appear in standard format.

## 3.13 - Measured value block overview

### Measured value block 001

| Read measured value block 1 |     |      | ⇒    | Indicated on display                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-----|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0100                        | 100 | 0000 | 0000 |                                                                                                                                                                                                                                                                                                                                  |
|                             |     |      | X    | <ul style="list-style-type: none"> <li>▪ Tailgate: 1 = opened, 0 = closed</li> <li>▪ Boot light: 1 = Light on, 0 = Light out</li> <li>▪ Tailgate release switch (A8 only):</li> <li>▪ 1 = actuated, 0 = not actuated</li> <li>▪ Tailgate release motor (A8 only):</li> <li>▪ 1 = motor running, 0 = motor not running</li> </ul> |
|                             |     |      | X    |                                                                                                                                                                                                                                                                                                                                  |
|                             |     |      | X    |                                                                                                                                                                                                                                                                                                                                  |
|                             |     |      | X    |                                                                                                                                                                                                                                                                                                                                  |



|   |                                                                               |                                                                                    |
|---|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|   | XX                                                                            | ▪ Switch for actuator element or interior switch on front passenger door:          |
|   | XX                                                                            | ▪ 00 = not actuated, 01 = lock, 10 = unlock, 11 = not permitted                    |
|   |                                                                               | ▪ Switch for actuator element or interior switch on driver's door:                 |
|   |                                                                               | ▪ 00 = not actuated, 01 = lock, 10 = unlock, 11 = not permitted                    |
| X | X                                                                             | ▪ Front passenger door and rear doors: 1 = open, 0 = closed (USA: only rear doors) |
| X | X                                                                             | ▪ Driver door: 1 = open, 0 = closed (USA: Driver and front passenger door)         |
| X | X                                                                             | ▪ Bonnet: 1 = open, 0 = closed                                                     |
| X | Key position in the lock cylinders                                            |                                                                                    |
| X | ▪ Unlock driver/ passenger door: 1 = key actuated, 0 = key in centre position |                                                                                    |
| X | ▪ Lock driver/ passenger door: 1 = key actuated, 0 = key in centre position   |                                                                                    |
| X | ▪ Unlock tailgate: 1 = key actuated, 0 = key in centre position               |                                                                                    |
|   | ▪ Lock tailgate: 1 = key actuated, 0 = key in centre position                 |                                                                                    |

## Measured value block 002

| Read measured value block 2 |      |     | ⇒             | ◀ Indicated on display                                                                      |
|-----------------------------|------|-----|---------------|---------------------------------------------------------------------------------------------|
| 0100                        | 1000 | 000 |               |                                                                                             |
|                             |      | X   | Radio removed | ▪ Terminal 15: 1 = Ignition on, 0 = Ignition off                                            |
|                             |      | X   |               | ▪ S-Contact: 1 = S -contact on, 0 = S- contact off                                          |
|                             |      | X   |               | ▪ Earth signal from radio: 1 = Radio installed, 0 =                                         |
|                             |      |     |               |                                                                                             |
| X                           | X    |     |               | ▪ "Open" radio remote control switch: 1 = actuated, 0 = not actuated                        |
| X                           | X    |     |               | ▪ Radio remote control switch "Close": 1 = actuated, 0 = not actuated                       |
| X                           | X    |     |               | ▪ Radio remote control switch for "Tailgate" open (only A8): 1 = actuated, 0 = not actuated |
| X                           | X    |     |               | ▪ Radio remote control switch for "Panic" (only USA): 1 = actuated, 0 = not actuated        |
| X                           | X    |     |               | ▪ Interior light control: 1 = Interior light on, 0 = Interior light off                     |
| X                           | X    |     |               | ▪ Control line for window lifter/sunroof:                                                   |
| X                           | X    |     |               | ▪ 1= terminal 87 (maintaining the supply voltage), 0 = earth                                |
| X                           | X    |     |               | ▪ "Comfort close" function: 1 = Comfort close actuated, 0 = not actuated                    |
|                             |      |     |               | ▪ "Comfort open" function: 1 = Comfort open actuated, 0 = not actuated                      |

## Measured value block 003

| Read measured value block 3 |      |   |      | ⇒                        | ◀ Indicated on display                                      |
|-----------------------------|------|---|------|--------------------------|-------------------------------------------------------------|
| 0                           | 0001 | 0 | 0000 |                          |                                                             |
|                             |      |   | X    | Disregard measured value | ▪ "Open" radio remote control switch: 1)                    |
|                             |      |   | X    |                          | ▪ 1 = actuated, 0 = not actuated                            |
|                             |      |   | X    |                          | ▪ Radio remote control switch "Close": 1)                   |
|                             |      |   | X    |                          | ▪ 1 = actuated, 0 = not actuated                            |
|                             |      |   |      |                          | ▪ Radio remote control switch for "Tailgate" open           |
|                             |      |   |      |                          | ▪ (only A8): 1)                                             |
|                             |      |   |      |                          | ▪ 1 = actuated, 0 = not actuated                            |
|                             |      |   |      |                          | ▪ Radio remote control switch for "Panic" (A8 USA only): 1) |
|                             |      |   |      |                          | ▪ 1 = actuated, 0 = not actuated                            |
|                             |      | X |      |                          |                                                             |

|   |   |                                                                                         |
|---|---|-----------------------------------------------------------------------------------------|
|   | X | ▪ Radio remote control key memory location 4 2): 1 = Address occupied, 0 = not occupied |
|   | X | ▪ Radio remote control key memory location 3 2): 1 = Address occupied, 0 = not occupied |
|   | X | ▪ Radio remote control key memory location 2 2): 1 = Address occupied, 0 = not occupied |
|   | X | ▪ Radio remote control key memory location 1 2): 1 = Address occupied, 0 = not occupied |
| X |   | ▪ Disregard measured value                                                              |

- 1) In addition, this measured value block displays non-matched radio remote control key, e. g., relating to the function check of the radio remote control key.
- 2) The corresponding key memory address for the radio remote control flashes if the radio remote control is actuated.

#### Measured value block 004 (vehicles up to software version D04)

| Read measured value block 4 |      |      |   | ⇒    | ▪ Indicated on display                                                                                                                                       |
|-----------------------------|------|------|---|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 101                         | 0101 | 1000 |   | 1000 |                                                                                                                                                              |
|                             |      |      | X |      | ▪ Anti-theft alarm system activated: 0 = No, 1 = Yes                                                                                                         |
|                             |      |      | X |      | ▪ Security CL activated: 0 = No, 1 = Yes                                                                                                                     |
|                             |      |      | X |      | ▪ Ignore measured value (display always 0)                                                                                                                   |
|                             |      |      | X |      | ▪ Vehicle with Swiss registration: 0 = No, 1 = Yes                                                                                                           |
|                             |      | X    |   |      | ▪ Anti-theft alarm system activated: 0 = No, 1 = Yes                                                                                                         |
|                             |      | X    |   |      | ▪ Interior monitor is equipped with self-diagnosis features: 0 = Yes, 1 = No                                                                                 |
|                             |      | X    |   |      | ▪ Ignore measured value (display always 0)                                                                                                                   |
|                             |      | X    |   |      | ▪ Vehicle is a Convertible: 0 = No, 1 = Yes                                                                                                                  |
|                             | X    |      |   |      | ▪ USA-door logic 1) activated: 0 = No, 1 = yes                                                                                                               |
|                             | X    |      |   |      | ▪ Confirming the anti-theft alarm system using hazard warning system: 0 = No, 1 = Yes                                                                        |
|                             | X    |      |   |      | ▪ Confirming the anti-theft alarm using the ATW horn 2): 0 = No, 1 = Yes                                                                                     |
|                             | X    |      |   |      | ▪ Confirming the radio remote control using the hazard warning system: 0 = No, 1 = Yes                                                                       |
| X                           |      |      |   |      | ▪ Radio remote control activated: 0 = No, 1 = Yes                                                                                                            |
| X                           |      |      |   |      | ▪ For security central locking, select central locking function if operating via remote, otherwise select security central locking function: 0 = No, 1 = Yes |
| X                           |      |      |   |      | ▪ Comfort closing/opening also possible using the radio remote control: 0 = No, 1 = Yes                                                                      |

- 1) All window lifters are thereby disabled when the ignition is off and the driver door is simultaneously open.
- 2) No longer permissible under German law.

#### Measured value block 004 (vehicles as of software version D05)

| Read measured value block 4                                                                                                                                                                                                                                                       |      |      |  | ⇒    | ▪ Indicated on display |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|------|------------------------|
| 101                                                                                                                                                                                                                                                                               | 0101 | 1000 |  | 1001 |                        |
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|             |                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                  | X<br>X<br>X<br>X | <ul style="list-style-type: none"><li>▪ Anti-theft alarm system activated: 0 = No, 1 = Yes</li><li>▪ Security CL activated: 0 = No, 1 = Yes</li><li>▪ Confirming the anti-theft alarm using the hazard warning lights:<ul style="list-style-type: none"><li>▪ 0 = No, 1 = Yes</li></ul></li><li>▪ Open tailgate, rear lock cylinder: 0 = No, 1 = Yes</li></ul>                                                                                                                                        |
|             |                  | X<br>X<br>X<br>X | <ul style="list-style-type: none"><li>▪ Anti-theft alarm system activated: 0 = No, 1 = Yes</li><li>▪ Interior monitor is equipped with self-diagnosis feat.: 0 = Yes, 1 = No</li><li>▪ Locking the vehicle using speed: 0 = No, 1 = Yes</li><li>▪ Vehicle is a Convertible: 0 = No, 1 = Yes</li></ul>                                                                                                                                                                                                 |
|             | X<br>X<br>X<br>X |                  | <ul style="list-style-type: none"><li>▪ USA-door logic 1) activated: 0 = No, 1 = yes</li><li>▪ Confirm. the radio remote control key "unlock" using the hazard warning lights:<ul style="list-style-type: none"><li>▪ 0 = No, 1 = Yes</li></ul></li><li>▪ Confirming the anti-theft alarm using the ATW horn 2): 0 = No, 1 = Yes</li><li>▪ Confirming the radio remote control key "lock" using the hazard warning lights:<ul style="list-style-type: none"><li>▪ 0 = No, 1 = Yes</li></ul></li></ul> |
| X<br>X<br>X |                  |                  | <ul style="list-style-type: none"><li>▪ Radio remote control activated: 0 = No, 1 = Yes</li><li>▪ For security central locking, select central locking function if operating via remote, otherwise select security central locking function: 0 = No, 1 = Yes</li><li>▪ Comfort closing/opening also possible using the radio remote control: 0 = No, 1 = Yes</li></ul>                                                                                                                                |

- 1) All window lifters are thereby disabled when the ignition is off and the driver door is simultaneously open.
- 2) No longer permissible under German law.

### 3.14 - Matching or deleting vehicle key for radio remote control

The vehicle is supplied with two remote keys.

You must match radio remote control ignition keys which are new or have not yet been matched using the central locking control unit -J429.

The vehicle keys must also be adapted to immobiliser control electronics.

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=> Electrical System; Repair group 01; Immobiliser Self-diagnosis - Fixed code Immobiliser Self-diagnosis - Fixed code

If a fault from 00955 to 00958 is displayed, the remote keys must be rematched.

#### Matching procedure for new remote keys

- Switch on the ignition (using additional key).
- Check how many keys have already been matched in measured value block 003 => Page 42 .

-> Indicated on display:

|                                        |   |
|----------------------------------------|---|
| Read measured value block              | 3 |
| <input type="checkbox"/> 0 0001 0 0000 |   |

Display zone 2 shows how many remote keys have been matched and in which memory positions (1x in position 1 in example shown).

- Lock vehicle from outside with the key to be adapted by way of the driver's lock door.
- Within 5 seconds press "unlock" key of remote key until next memory position is reached (2x in example).

Each time the button is pressed the hazard lights will flash to confirm.

- Wait 5 seconds.
- Now press the "unlock" key again to confirm the matching process.

This vehicle key is now saved and the central locking must unlock.

- Switch off ignition and remove ignition key.
- Check function of new remote key.
- Check display zone 2 measured value block 003. It must now contain an additional "1" (in example: 0011).

-> Display zone 2 shows how many radio remote control keys have been matched and in which memory positions (2x in positions 2 and 1 in example shown).

|      |                |       |      |
|------|----------------|-------|------|
| Read | measured value | block | 3    |
| 0    | 0011           | 0     | 0000 |

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#### **Notes:**

- ◆ Repeat matching process for any further keys. Ignition must always be switched off following storage.
- ◆ Make sure new keys are always matched to vacant memory positions. If use is made of occupied memory positions (can be seen from "1") the radio key already matched for this memory position will no longer function.

#### **Re-matching procedure for existing remote keys**

##### **Note:**

*This procedure must be performed after changing the batteries in remote keys, or if the fault reader displays fault codes 00955 to 00958.*

- Press key on remote key.

If vehicle is neither locked nor unlocked:

- Lock and unlock vehicle within 30 seconds by way of driver's door lock.
- Then check function of re-matched remote key.

If vehicle is still not locked or unlocked, key must be re-matched. Match remote key =>Page 44 .

#### **Procedure for erasing memory positions**

##### **Note:**

*It is possible to erase all of the memory addresses, e. g., if the customer has misplaced a radio remote control key. Please proceed as follows:*

- Switch on the ignition using a key.
- Then mechanically lock the central locking from outside using a key.
- Press "open/unlock" button on radio remote control key five times at 1 second intervals.

Each time the button is pressed the hazard lights will flash to confirm.

- Then press the "Open" remote control switch after 6 seconds to confirm this erasing procedure once again.

The central locking is now not permitted to unlock the vehicle via the radio remote control.

- Switch off ignition and remove ignition key.



- Memory positions are erased; it must not be possible to unlock central locking system by pressing "remote opening" button.

You can now match up to four keys.

## 4 - Ultrasonic interior monitor self-diagnosis

### 4.1 - Ultrasonic interior monitor self-diagnosis

#### 4.2 - General notes

The ultrasonic interior monitor is only available in combination with the anti-theft alarm system (ATW).

The addition of an ultrasonic interior monitor increases the level of protection offered by the ATW.

The interior monitor will set off the ATW alarm if an attempt is made to enter the vehicle.

#### Function

The ultrasonic interior monitor consists of:

- ♦ Control unit for ultrasonic sensors -J347
- ♦ Ultrasonic sensor left for ATW -G170
- ♦ Ultrasonic sensor right for ATW -G171
- ♦ Switch for interior monitor -E183

The ultrasonic sensors in the upper part of the left and right B-pillar trim scanning the side windows and transmit scanning signals to the ultrasonic sensors control unit.

If the scanning signal changes, the ultrasonic sensors control unit triggers the alarm via the central locking control unit.

The control unit for the interior monitor actuates the warning lamps next to the door locking knobs. These warning lamps permit additional interior monitor diagnosis.

The interior monitor switch is used to switch off the interior monitor manually when locking the vehicle.

=> Operating instructions

The ultrasonic interior monitor features a comprehensive self-diagnosis. If malfunctions occur in system components, fault codes are stored in fault memory of control unit. These can then be identified using fault reader V.A.G 1551 or vehicle systems tester V.A.G 1552.

#### 4.3 - Initiating self-diagnosis of the interior monitor

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#### Test requirements:

- ♦ Check fuse using current flow diagram.
- ♦ Connect fault reader V.A.G 1551  
=> Page 1.
- ♦ Anti-theft alarm not activated.

#### Notes:

- ♦ If the display remains blank, check voltage supply to V.A.G 1551 according to current flow diagram.
- ♦ Additional operating instructions can be called up with the fault reader HELP key.

- ◆ The ⇒ key is used for the continuation of the program sequence.
- ◆ If an incorrect entry is made, press the C key to escape.
- Switch ignition on.
- Switch on printer with the Print key (indicator lamp in key lights up).
- Press key 1 for "Rapid data transfer" mode.

-> Indicated on display:

Rapid data transfer      HELP  
 Enter address word XX

**Address word for interior monitor: 45**

- Press keys -4- and -5-.

-> Indicated on display:

Rapid data transfer      Q  
 45 - Interior monitor

- Confirm input with Q key.

-> After approx. 5 seconds the display indicates, for example:

8L0951173 Interior monitor      D00  
 Code 00001      WSC 06812

- Press ⇒key.

**Note:**

*Press HELP key to obtain a printout of available functions.*

**Self-diagnosis functions**

The following functions are possible:

- 01 - Interrogating control unit version => Page 50 .
- 02 - Interrogating fault memory => Page 47 .
- 03 - Final control diagnosis=> Page 51 .
- 05 - Erasing fault memory => Page 56 .
- 06 - End output => Page 57 .
- 07 - Coding control unit => Page 53 .
- 08 - Read measured value block => Page 54 .
- 10 - Adaption=> Page 55 .

## 4.4 - Interrogating fault memory

**Note:**

*The displayed fault information is not constantly updated but only when initiating self-diagnosis or with function 05 "Erase fault memory".*

- Switch on printer with the Print key (indicator lamp in key lights up).



## Performing function 02- "Interrogating fault memory"

-> Indicated on display:

Rapid data transfer      HELP  
Select function XX

- Press keys -0- and -2-.

-> Indicated on display:

Rapid data transfer      Q  
02 - Interrogate fault memory

- Confirm input with Q key.

-> The number of faults stored appears on the display.

X fault recognised

The stored faults are displayed and printed out one after the other.

- Check printout against fault table and rectify all faults as necessary => Page 48 .

-> If the message "No fault recognised" is displayed, the program returns to its start position when pressing the =>key.

No fault recognised

-> Indicated on display:

Rapid data transfer      HELP  
Select function XX

If something else is displayed:

=> Fault reader operating instructions

- Erase fault memory (function 05)  
=> Page 56 .
- End output (function 06) => Page 57
- Switch off ignition and detach diagnostic connector.

## 4.5 - Fault table for interior monitor:

### Notes:

- ♦ The following table lists all the faults with the corresponding 5-digit code numbers, that can be recognised by the ultrasonic sensors and printed out by the V.A.G 1551.
- ♦ Fault codes appear only on print-out.
- ♦ Before replacing a component shown as faulty, check wiring and connections to component as well as earth connections according to current flow diagram.
- ♦ After carrying out repairs activate and deactivate system once. Then interrogate fault memory again with fault reader V.A.G 1551 and erase memory.
- ♦ All static and sporadic faults are stored in the fault memory:  
When a fault occurs it is immediately identified as a static fault. If fault does not occur again it is registered as a sporadic fault. "/SP" appears on the right of the display.
- ♦ All faults present are set to sporadic after activation and are only stored as being static if they are still present on completion of checking.
- ♦ Sporadic faults which no longer occur after 50 activation cycles are erased automatically.
- ♦ The 3-digit fault type number appearing next to the fault code is a data code which can be ignored.

| V.A.G 1551 print-out | Possible causes of fault | Fault remedy |
|----------------------|--------------------------|--------------|
| 01377                |                          |              |

|                                                        |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ultrasonic sensor 1 for ATW -G170<br>Short to positive | - Short circuit in wiring or in connections between ultrasonic sensor 1 for ATW -G170 and the ultrasonic sensors control unit - J347<br>- Ultrasonic sensor 1 for ATW - G170 defective | - Check and, if necessary, repair wiring and connections according to the current flow diagram.<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Check and if necessary replace ultrasonic sensor 1 for ATW -G170<br>=> General Body Assembly, Interior; Repair group 70; Trims; Removing and installing B-pillar trim Trims; Removing and installing B-pillar trim |
| Open circuit/short circuit to earth                    | - Open circuit in wiring between ultrasonic sensor 1 for ATW -G170 and the ultrasonic sensors control unit -J347<br>- Ultrasonic sensor 1 for ATW - G170 defective                     | - Check and, if necessary, repair wiring and connections according to the current flow diagram.<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Check and if necessary replace ultrasonic sensor 1 for ATW -G170<br>=> General Body Assembly, Interior; Repair group 70; Trims; Removing and installing B-pillar trim Trims; Removing and installing B-pillar trim |
| Implausible signal                                     | - Faults on activation of ultrasonic interior monitor.                                                                                                                                 | - Performing functional test =>Page 51 .                                                                                                                                                                                                                                                                                                                                                                 |

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| V.A.G 1551 print-out                                                | Possible causes of fault                                                                                                                                                                      | Fault remedy                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01378<br>Ultrasonic sensor right for ATW -G171<br>Short to positive | - Short circuit in wiring or in connections between ultrasonic sensor right for ATW -G171 and the ultrasonic sensors control unit - J347<br>- Ultrasonic sensor right for ATW -G171 defective | - Check and, if necessary, repair wiring and connections according to the current flow diagram.<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Check and if necessary replace ultrasonic sensor right for ATW - G171<br>=> General Body Assembly, Interior; Repair group 70; Trims; Removing and installing B-pillar trim Trims; Removing and installing B-pillar trim |
| Open circuit/short circuit to earth                                 | - Open circuit in wiring between ultrasonic sensor right for ATW - G171 and the ultrasonic sensors control unit -J347<br>- Ultrasonic sensor right for ATW -G171 defective                    | - Check and, if necessary, repair wiring and connections according to the current flow diagram.<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>Check and if necessary replace ultrasonic sensor right for ATW - G171<br>=> General Body Assembly, Interior; Repair group 70; Trims; Removing and installing B-pillar trim Trims; Removing and installing B-pillar trim |
| Implausible signal                                                  | - Faults on activation of ultrasonic interior monitor.                                                                                                                                        | - Performing functional test =>Page 51 .                                                                                                                                                                                                                                                                                                                                                                      |



| V.A.G 1551 print-out                                                | Possible causes of fault                                                                                                                                  | Fault remedy                                                                                                                                                                                                                      |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01379<br>Switch for interior monitor -E183<br><br>Short to earth 1) | - Wiring defect between switch for interior monitor -E183 and the ultrasonic sensors control unit -J347<br>- Switch for interior monitor - E183 defective | - Check and, if necessary, repair wiring and connections according to the current flow diagram.<br>=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder<br>- Replace switch for interior monitor -E183 |
| 01380<br>Alarm triggered by sensor for ATW rear left                | - Alarm triggered by attempted forced entry at rear left window or following a functional test<br>- False alarm.                                          | - Erasing fault memory<br>Performing functional test<br>=>Page 55 .                                                                                                                                                               |
| 01381<br>Alarm triggered by sensor for ATW rear right               | - Alarm triggered by attempted forced entry at rear right window or following a functional test<br>- False alarm.                                         | - Erasing fault memory<br>Performing functional test<br>=>Page 55 .                                                                                                                                                               |

1) Fault is set if earth is applied for more than 1 minute.

| V.A.G 1551 print-out                                   | Possible causes of fault                                                                                           | Fault remedy                                                        |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 01382<br>Alarm triggered by sensor for ATW front left  | - Alarm triggered by attempted forced entry at front left window or following a functional test<br>- False alarm.  | - Erasing fault memory<br>Performing functional test<br>=>Page 55 . |
| 01383<br>Alarm triggered by sensor for ATW front right | - Alarm triggered by attempted forced entry at front right window or following a functional test<br>- False alarm. | - Erasing fault memory<br>Performing functional test<br>=>Page 55 . |
| 65535<br>Control unit defective                        | - Control unit for ultrasonic sensors -J347 defective                                                              | - Replace control unit for ultrasonic sensors -J347                 |

## 4.6 - Interrogating control unit version

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- Press keys -0- and -1-.

-> Indicated on display:

Rapid data transfer Q  
01- Interrogate control unit version

- Confirm input with Q key.

-> Indicated on display:

8L0951173 Interior monitor Dxx  
Code 00001 WSC 06812

## Explanation of the display

- ◆ 8L0951173: Number of the control unit (also refer to parts list)
- ◆ Interior monitor sys: Component designation and version
- ◆ Dxx: Software version
- ◆ Code 00001: Coding => Page 53
- ◆ WSC 06812: Workshop code

- The →key is used to return to the basic function.

-> Indicated on display:

|                                                     |
|-----------------------------------------------------|
| Rapid data transfer      HELP<br>Select function XX |
|-----------------------------------------------------|

## 4.7 - Functional test of interior monitor

- Open side window approx. 10 cm.
- Switch off ignition and remove ignition key.
- Close all doors.
- Lock vehicle thus activating anti-theft alarm and interior monitor.
- Wait 30 seconds until warning lamp in door starts to flash slowly every 2 seconds ( $f = 0.5 \text{ Hz}$ ).
- Move your hand through the open window and near to the sensor.
- Alarm is triggered if interior monitor is functioning properly. An entry is made in the fault memory of the central locking control unit "1370; Alarm from interior monitor" and in the ultrasonic sensors control unit "Alarm from sensor for ATW; front left, front right, rear left, rear right".
- Unlock vehicle and thus deactivate alarm.
- The faults in the fault memory of the relevant control unit must be read out and erased.

## 4.8 - Final control diagnosis

### Notes:

- ◆ The final control diagnosis may only be performed with the vehicle stationary and the engine not running!
- ◆ Any faults identified by the final control diagnosis must be traced and rectified!

The final control diagnosis activates the following elements in sequence:

- ◆ Actuation of warning lamps next to door locking knob at driver's/passenger door
- ◆ Triggering of anti-theft alarm (no function)
- ◆ Actuation of power supply lead to ultrasonic sensors.
- ◆ Actuation of clock signal lead to ultrasonic sensors.

### Note:

*An "ATW alarm" cannot be triggered through this final control diagnosis. To trigger an "ATW alarm" carry out final control diagnosis via central locking control unit=> Page 51.*

### Performing function "03 - final control diagnosis"

- Press keys -0- and -3-.

-> Indicated on display:

|                                                            |
|------------------------------------------------------------|
| Rapid data transfer      Q<br>03 - Final control diagnosis |
|------------------------------------------------------------|

- Confirm input with Q key.

-> Indicated on display:



Final control diagnosis  
Warning lamp for alarm system -K95

Actuation of warning lamps next to door locking knob at driver's/passenger door

- Press ⇒key.

-> Indicated on display:

Final control diagnosis  
Cause alarm to trigger

Cause alarm to trigger (no function)

- Press ⇒key.

-> Indicated on display:

Final control diagnosis  
Power supply lead

Control unit transmits constant voltage of 8 V for checking wiring =>Page 52 .

- Press ⇒key.

-> Indicated on display:

Final control diagnosis  
Clock signal lead

Control unit transmits constant voltage of 5 V for checking wiring =>Page 53 .

- Press ⇒key.

-> Indicated on display:

Final control diagnosis  
End

- Press ⇒key.

This returns testing unit to basic function mode.

-> Indicated on display:

Rapid data transfer      HELP  
Select function XX

### Checking power supply lead

- Remove the two ultrasonic sensors.

=> General Body Assembly, Interior; Repair group 70; Trims; Removing and installing B-pillar trim Trims Removing and installing B-pillar trim

- Detach electrical connectors.
- Perform final control diagnosis => Page 51 and select control element test "Power supply lead".

-> Indicated on display:

Final control diagnosis  
Power supply lead

- Use hand-held multimeter V.A.G 1526 to measure voltage at wiring-harness connector between contact 2 (voltage supply) and contact 3 (earth).

Specified value: 8 V



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- Terminate final control diagnosis.
- Re-install ultrasonic sensors.

#### Checking clock signal lead

- Remove the two ultrasonic sensors.

=> General Body Assembly, Interior; Repair group 70; Trims; Removing and installing B-pillar trim Trims Removing and installing B-pillar trim

- Detach electrical connectors.
- Perform final control diagnosis => Page 51 and select control element test "Clock signal lead".

-> Indicated on display:

Final control diagnosis  
Clock signal lead

- Use hand-held multimeter V.A.G 1526 to measure voltage at wiring-harness connector between contact 1 (clock signal) and contact 3 (earth).

Specified value: 5 V

- Terminate final control diagnosis.
- Re-install ultrasonic sensors.
- Erase fault memory (function 05)  
=> Page 56.
- End output (function 06) => Page 57

## 4.9 - Encoding control unit

This function permits encoding of the interior monitor as follows:

- ◆ Model: Audi A3
- ◆ Activation mode of ATW: static
- ◆ Body version: Saloon

#### Notes:

- ◆ The coding sets the universal control unit for ultrasonic sensors -J347 according to the requirements of the particular model version and anti-theft alarm system.
- ◆ The coding table only lists the coding combinations possible for the Audi A3.

#### Performing function "07 - Code control unit"

-> Indicated on display:

Rapid data transfer      HELP  
Select function XX

- Press keys -0- and -7-.

-> Indicated on display:

Rapid data transfer      Q  
07 - Encoding control unit

- Confirm input with Q key.

-> Indicated on display:

Encoding control unit  
Enter code number XXXXX      (0-32000)

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- Enter code number:

Code00001

00 Filler positions, no significance

0 Audi A3

0 Static activation mode

1 Saloon

Code control unit Q  
Enter code number 00001 (0-32000)

- > Indicated on display:
- Confirm input with Q key.

-> Indicated on display, e.g.:

8L0951173 Interior monitor D00  
Code 00001 WSC 06812

- Press => key to end coding procedure.

-> Indicated on display:

Rapid data transfer HELP  
Select function XX

- Pressing keys -0- and -6- completes the function.

-> Indicated on display:

Rapid data transfer Q  
06 - End output

- Confirm input with Q key.



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## 4.10 - Reading measured value block

### Performing function "08 - Read measured value block"

-> Indicated on display:

Rapid data transfer HELP  
Select function XX

- Press keys -0- and -8-.

-> Indicated on display:

Rapid data transfer Q  
08 - Read measured value block

- Confirm input with Q key.

-> Indicated on display:

Reading measured value block  
Enter display group number XXX

- Enter display group number 001 and confirm input with Q key.

The measured value block which has been selected will appear in standard format. Evaluation => Page 55

## 4.11 - Measured value block overview

### Measured value block 001

|                             |                                                                                                  |   |                                   |
|-----------------------------|--------------------------------------------------------------------------------------------------|---|-----------------------------------|
| Read measured value block 1 |                                                                                                  | ⇒ | Indicated on display              |
| 0000                        | 100%                                                                                             |   |                                   |
|                             |                                                                                                  |   | Vacant measured value block       |
|                             |                                                                                                  |   | Vacant measured value block       |
|                             |                                                                                                  |   | Sensitivity of sensors 1)         |
|                             |                                                                                                  |   | ▪ Display in percent 50 ... 100 % |
| X                           | Switch settings                                                                                  |   |                                   |
| X                           | ▪ 1st Position: Switch for interior monitor 2) (pressed = 1, not pressed = 0)                    |   |                                   |
| X                           | ▪ 2nd Position: Contact switch, driver's door (driver's door open = 1, driver's door closed = 0) |   |                                   |
| X                           | ▪ 3rd Position: Anti-theft alarm (active = 1, not active = 0)                                    |   |                                   |
|                             | ▪ 4th Position: Shattered glass sensors 3)(1 = shattered glass detected, 0 = windows OK)         |   |                                   |

- 1) See function "Adaption" => Page 55 .
- 2) Prerequisite: Driver's door must be open.
- 3) Not A3, therefore always = 0

## 4.12 - Adaption

The adaption function makes it possible to implement and store the following modification:

- ♦ Setting of ultrasonic sensors can be adjusted such that they react less sensitively.

### Performing adaption (function 10)

-> Indicated on display:

|                                           |                                                                                                                                                                                                                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rapid data transfer<br>Select function XX | HELP Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG. |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- Press keys -1- and -0-.

-> Indicated on display:

|                                      |   |
|--------------------------------------|---|
| Rapid data transfer<br>10 - Adaption | Q |
|--------------------------------------|---|

- Confirm input with Q key.

-> Indicated on display:

|                                 |
|---------------------------------|
| Adaption<br>Feed in channel No. |
|---------------------------------|

- Press keys -0- and -1-.

-> Indicated on display:

|                                |   |
|--------------------------------|---|
| Adaption<br>Channel display 10 | Q |
|--------------------------------|---|

- Confirm input with Q key.



-> Indicated on display:

The sensitivity level of the sensors is displayed: e.g. 100 %

|                  |          |         |
|------------------|----------|---------|
| Channel 1        | Adaption | 100     |
| Sensitivity in % |          | (-1 3-L |

**Note:**

The maximum ultrasonic sensor setting made at the factory is 100 % and can be reduced to 50 %.

- Press =>key.

-> Indicated on display:

|                            |          |     |
|----------------------------|----------|-----|
| Channel 1                  | Adaption | 100 |
| Enter adaption value XXXXX |          |     |

- Enter sensitivity value,  
e.g. 75 % = 00075

-> Indicated on display:

|                      |              |       |
|----------------------|--------------|-------|
| Channel 1            | Adaption 100 | Q     |
| Enter adaption value |              | 00075 |

- Confirm input with Q key.

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-> Indicated on display:

|                  |             |         |
|------------------|-------------|---------|
| Channel 1        | Adaption 75 | Q       |
| Sensitivity in % |             | (-1 3-L |

- Confirm input with Q key.

-> Indicated on display:

|                      |             |   |
|----------------------|-------------|---|
| Channel 1            | Adaption 75 | Q |
| Store changed value? |             |   |

- Confirm input with Q key.

-> Indicated on display:

|                         |          |    |
|-------------------------|----------|----|
| Channel 1               | Adaption | 75 |
| Changed value is stored |          |    |

- Terminate adaption of sensitivity with the =>key.

-> Indicated on display:

|                       |  |      |
|-----------------------|--|------|
| Rapid data transfer   |  | HELP |
| Enter address word XX |  |      |

## 4.13 - Erasing fault memory

**Note:**

If it is not possible to erase fault memory, interrogate it once again and rectify faults.

**Preconditions:**

- ♦ Fault memory interrogated.
- ♦ All faults rectified.

After fault memory has been successfully interrogated:

### Performing function "05 - Erase fault memory"

-> Indicated on display:

Rapid data transfer      HELP  
 Select function XX

- Press keys -0- and -5-.

-> Indicated on display:

Rapid data transfer      Q  
 05 - Erase fault memory

- Confirm input with Q key.

-> Indicated on display:

Rapid data transfer  
 Fault memory is erased

The fault memory is now erased.

- Press =>key.

-> Indicated on display:

Rapid data transfer      HELP  
 Select function XX

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Warning!  
 Fault memory has not been interrogated

-> The appearance of this message on the display indicates an error in the test sequence.

Warning!  
 Fault memory has not been interrogated

-> The appearance of this message on the display indicates an error in the test sequence.

*Observe test sequence exactly: First interrogate fault memory, if necessary rectify faults, then erase.*

*Erase according to fault memory; exit output with 0; deactivate and reactivate ignition; interrogate fault memory again.*

## 4.14 - End of output

### Perform function "06 - Terminate output"

-> Indicated on display:

Rapid data transfer      HELP  
 Select function XX

- Press keys -0- and -6-.

-> Indicated on display:

Rapid data transfer      Q  
 06 - End output

- Confirm input with Q key.



-> Indicated on display:

|                       |      |
|-----------------------|------|
| Rapid data transfer   | HELP |
| Enter address word XX |      |

- Switch off ignition.
- Disconnect connectors to fault reader V.A.G 1551.



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