<u>Audi A8 1994 ≻</u>

Body Self-diagnosis

Edition 05.1998



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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 print out is not possible.

Test requirements:

- Supply voltage of vehicle electrical system OK
- Fuses OK.
- => "Current Flow Diagrams, Electrical Fault-finding and Fitting Locations" binder
- Earth connections on engine and gearbox OK.



- -> Release ashtray in centre console by pressing small lever -arrow-. Remove ashtray from centre console and remove cover for diagnostic connector.





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- -> 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 - Ra | pid data transfer 1) |
| 2 - Fi | ash code output 1) |

1) appears alternately

Note:

If the display remains blank:

- => Fault reader operating instructions
- Switch on the fault reader printer with the print key. The indicator lamp in the key must illuminate.
- Enter "1" to select "Rapid data transfer".

-> Indicated on display:

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

Notes:

 Address word 00 implements the automatic test sequence, i.e. the interrogation of the fault memory via rapid data transfer for all vehicle systems with a self-diagnosis capability.

Rapid data transfer HELP No reply from control unit

-> Indicated on display

- Print out possible cause of trouble by pressing HELP key.

Rapid data transfer HELP Communication problem

Perform fault finding in line with fault-finding instructions for diagnostic cable.

=> Current flow diagrams, Electrical Fault-finding and Fitting Locations binder.

| Rapid data transfer HELP K wire not switching to earth | Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted urless 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. |
| Rapid data transfer HELP K wire not switched to positive | |
| Rapid data transfer No signal from control unit | |

2 - Self-diagnosis of airbag system

2.1 - Self-diagnosis of airbag system

2.2 - General notes

Airbag III - CTU-Airbag-System ä approx. 11.94

(Central Triggering Unit)

The airbag system comprises: Driver's airbag, passenger's airbag, two front belt tensioners.

The self-diagnosis features the following functions:

- 01 Interrogating control unit version
- 02 Interrogate fault memory
- 03 Erase fault memory
- 06 End of output
- 07 Coding control unit

Airbag V - BTU-Airbag-System approxright.94/a 06,96t (Basic Triggering Unit) or in whole, is not

The airbag system comprises: The correctness of information in this document. Copyright by AUDI AG.

Driver's airbag, passenger's airbag, two front belt tensioners.

Additional self-diagnosis features:

- 02 Interrogate fault memory Further fault codes
- 08 Read measured value block, Measured value block 001

Airbag 7 - BTU-Airbag-System approx. 07.96 ä

(Basic Triggering Unit)

The airbag system comprises:

Driver's airbag, passenger's airbag, two front side airbags, two front belt tensioners, two rear side airbags, two rear belt tensioners, seat-occupied sensor passenger seat and rear bench seat as well as front belt fastened detector.

Additional self-diagnosis features:

- 02 Interrogate fault memory: Further fault codes
- 03 Perform final control diagnosis: Final control diagnosis enables checking of function of "crash signal"=> Page 22.
- O7 Coding control unit: Self-diagnosis can be used to deactivate/activate the passenger airbag => Page 24.
- 08 Read measured value block: Additional measured value blocks 002 ... 006
- 10 Adaption Self-diagnosis can be used to deactivate/activate the passenger airbag => Page 34.

Airbag 8 - BTU-Airbag-System (Basic Triggering Unit) introduced from 10.98.

The airbag system comprises:

Driver's airbag, passenger's airbag, two front side airbags, two front belt tensioners, two rear side airbags, two rear belt tensioners and three rear belt tensioners respectively, head airbag, key switch deactivation passenger airbag, seat-occupied sensor passenger seat and rear bench seat as well as front belt fastened detector.

In addition to using the airbag key switch it is also possible to block or activate the passenger airbag via the function "adaption" => Page $\frac{34}{2}$.

Additional self-diagnosis features:

- 02 Interrogate fault memory: Further fault codes
- 08 Read measured value block: Additional measured value blocks, 007, 008

In a crash situation the airbag control unit sends a "Crash signal" to the central locking control unit. This function is a passive safety feature. When the airbag and/or the belt tensioner is triggered it uses the central locking to release the door locks and blocks the interior switch. The "Crash-Signal" must be checked using final control diagnosis => Page 22.

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.

All airbag systems

Driver's airbag, passenger's airbag, front belt tensioners and, where applicable, rear side airbags and belt tensioners are triggered centrally by the control unit for airbag -J234 in a crash situation when the preset triggering criteria are exceeded.

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

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 ä10.98 in vehicles with airbag 8.

- If the warning lamp -K75 does not go out after approx. 4 seconds this indicates a problem with the supply voltage for the airbag control unit -J234. Interrogate fault memory => Page 6.
- 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 6.

When commissioning a new control unit it must be encoded => Page 24.

Important:

- Wiring must only be checked by visual inspection! by copyright. Copying for private or commercial purposes, in part or in whole, is not
- Never use electrical tests to check or measure continuity in the ignited circuits his document. Copyright by AUDI AG.
- Always switch off ignition before inspecting wiring!

| Fault reader V | A.G 1551 or vehicle system tester V.A.G 1552 | Ignition on, engine stopped | Page | | |
|----------------|--|-----------------------------|------|--|--|
| Address words | Address words | | | | |
| 00 | Automatic test sequence | yes | 2 | | |
| 15 | Airbag | yes | 5 | | |
| Functions | | | | | |
| 01 | Interrogating control unit version | yes | 39 | | |
| 02 | Interrogating fault memory | yes | 6 | | |
| 03 | Final control diagnosis | yes | 22 | | |
| 05 | Erase fault memory | yes | 7 | | |

Available functions

| 06 | End of output | yes | 7 |
|----|------------------------------|-----|----|
| 07 | Encoding control unit | yes | 24 |
| 08 | Reading measured value block | yes | 27 |
| 10 | Adaption | yes | 34 |

2.3 - Starting airbag system self-diagnosis

Preconditions:

- Fault reader V.A.G 1551 connected =>Page 1.
- Ignition on.
- Always check coding of airbag control unit
- Enter "15" for address word "Airbag" and confirm entry with Q key.

-> Indicated on display



- Wait until the next display appears.

-> The display on the fault reader V.A.G 1551 will show the control unit identification code (example).

| 4D0959655C | Airbag 7 | AUDI | |
|------------|-----------|------|--|
| D00 🗆 | | | |
| Code 00224 | WSC 12345 | | |
| | | | |

Note:

You may print out the control unit identification by pressing the PRINT key on the fault reader V.A.G 1551.

Control unit identification (example)

Note:

For vehicles with airbag 8 the display shows Airbag front + side or Airbag Front + head.

| - 4D0 959.655 | Part-No.; assignment => Parts List | |
|--|--|--|
| - Airbag III - Airbag V - Airbag 7 - Airbag Front+side or Fron +Head | CTU-Airbag (Central Trig- gering Unit) ä approx. 11.94 t BTU-Airbag (Basic Trig- gering Unit) approx. 11.94 ä 06.96 BTU-Airbag (Basic Trig- ted gering Unit) with side air- bag 07.96 ä BTU Airbag (Basic Trig- gering Unit) with side air- bag/and head airbag intro- duced as of 10.98. | by copyright. Copying for private or commercial purposes, in part or in whole, is not unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability spect to the correctness of information in this document. Copyright by AUDI AG. |
| - AUDI D00 | Control unit data status (software type) | |
| - Code 00127: | Control unit code | |

| - WSC 12345 | Workshop Code of V.A.G 1551 with which encoding |
|-------------|--|
| | was last performed |

Press ⇒key.

-> Display function selection:

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

Notes:

The control unit identification can be displayed again by entering function "01" for "Interrogating control unit ٠ version" and confirming with the Q key.

Rapid data transfer HELP No reply from control unit -> Indicated on display

Print out possible cause of trouble by pressing HELP key.

Rapid data transfer HELP wire not switched to positive

Perform fault finding in line with fault-finding instructions for diagnostic cable.

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

| Rapid data transfer HELP K wire not switching to earth | |
|---|---|
| Rapid data transfer No signal from control unit | Protected by copyright. Copying for private or commercial purposes, in part or in whole, is no permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liabilit with respect to the correctness of information in this document. Copyright by AUDI AG. |

2.4 - Interrogating fault memory

Notes:

Faults which occur only for a short time are indicated as "sporadic faults" with "/SP" on the right of the display.

- In order to eliminate such sporadically occurring faults the fault memory must be erased before repair.
- Starting airbag system self-diagnosis => Page 5.

| -> Indicated on display | | | |
|---|------|--|--|
| Rapid data transfer Select function XX | HELP | | |

Enter "02" for the function "Interrogate fault memory" and confirm entry with Q key.

-> Indicated on display No fault recognised!

Press ⇒key. _

or

-> Indicated on display X fault(s) detected

The stored faults are displayed and printed in sequence when the printer is switched on.

Note:

If the printer is switched off, press the \Rightarrow key to display the next fault.

- Press ⇒ after the last fault is displayed and printed.

-> Indicated on display

| Rapid data transf | er HE | LP |
|-------------------|-------|----|
| Select function X | Х | |

- Rectify printed faults according to fault table => Page 7, then erase fault memory and interrogate the fault memory again as a check.

2.5 - Erase fault memory

Prerequisite:

• Fault memory interrogated => Page 6.

-> Indicated on display

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

- Enter "05" for the function "Erase fault memory" and confirm entry with Q key.

| -> Indicated on display |
|---|
| Rapid data transfer Fault memory is erased |
| - Press ⇒key. |
| -> Display function (selection): |
| Rapid data transfer HELP Select function XX |
| End of output |
| |
| Rappided artes 한상과 STATE AV AUDI ACH由力DI AG does not guarantee or accept any lia Se 한성전: 또 문화하는 방술과 rxxxness of information in this document. Copyright by AUDI AG |
| |

- Enter "06" for "End output" function and confirm entry with Q key.

-> Indicated on display Rapid data transfer HELP Enter address word XX

- Switch off ignition and detach diagnostic connector.

2.6 - Fault table

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.

not

The fault memory records all static and sporadic faults.

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. If a fault is continually present the fault lamp for the airbag system lights up until the fault is rectified and the

- ٠ fault memory is erased. Before replacing a component shown as faulty, check wiring and connections to component as well as earth
- ٠ connections according to current flow diagram.

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|------------------------|---|---|--|
| 00532 | | | |
| Voltage supply too low | - Battery discharged/defec- tive permitted un - Short-circuit in vehicie respe electrical system | Airbag system does not congressed by AUDI AG. AUDI AG does not congress of information in this of a congress of information in this of a congress of information in this of a congress of a congres | Charge/replace battery Rectify short-circuit in vehicle electrical system Erase fault memory |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--|---|---|
| 00588 | | | |
| Airbag igniter, driver's side - N95 | | | |
| Resistance value too high | - Open circuit | Igniter for driver's airbag not triggered | - Rectify open circuit in wir- ing |
| | - Self-cancelling ring with coil connector and slip ring defective | | Check self-cancelling ring with coil connector and slip ring General Body Assem- bly, Interior; Repair group 69; Servicing airbag III and V; Removing and instal- ling self-cancelling ring with coil connector and slip ring Servicing airbag III and V; Removing and installing self-cancelling ring with coil connector and slip ring |
| | - Driver's airbag unit de- fective | | - Replace driver's airbag unit |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| | Continued < | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--------------------------|--|---------------------------|
| 00588 | (Fault 00588 continued) | | |
| Airbag igniter, driver's side - N95 | | | |
| Resistance value too low | - Line cross | Igniter for driver's airbag not triggered. | - Eliminate end of wiring |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---------------------|--|------------------|---|
| | - Self-cancelling ring with coil connector and slip ring defective | | Check self-cancelling ring with coil connector and slip ring General Body Assem- bly, Interior; Repair group 69; Servicing airbag III and V; Removing and in- stalling self-cancelling ring with coil connector and slip ring Servicing air- bag III and V; Removing and installing self-cancel- ling ring with coil connec- tor and slip ring |
| | - Driver's airbag unit de- fective | | - Replace driver's airbag unit |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| | Continued < | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|------------------------------------|---------------------------------------|---|-----------------------------------|
| 00588 | (Fault 00588 continued) | | |
| Airbag igniter, driver's side -N95 | | | |
| Short to positive | - Wiring damaged | Igniter for driver's air- bag not triggered | - Rectify wiring damage |
| | - Airbag control unit de- fective | | - Replace airbag control unit. |
| Short to earth | - Wiring damaged | Igniter for driver's air- bag not triggered | - Rectify wiring damage |
| | - Driver's airbag unit de- fective | | - Replace driver's airbag unit |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| | | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|---|---|--|
| 00589 Airbag Igniter 1 for passengersaut side -N131 with respect to the | t. Copying for private or commercial p norised by AUDI AG. AUDI AG does n correctness of information in this docu | urposes, in part or in whole, is not ot guarantee or accept any liability ment. Copyright by AUDI AG. | |
| Resistance value too high | - Open circuit | Igniter 1 for passeng- er's airbag not triggered | Rectify open circuit in wiring |
| | - Passenger's airbag unit defective | | - Replace passenger's airbag unit |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Resistance value too low | - Line cross | | - Eliminate end of wiring |
| | - Passenger's airbag unit defective | | - Replace passenger's airbag unit |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| | Continued • | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---------------------|--------------------------|------------------|--------------|
| 00589 | (Fault 00589 continued) | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--|--|--------------------------------------|
| Airbag igniter, passenger's side - N131 | | | |
| Short to positive | - Wiring damaged | Igniter for passeng- er's airbag not triggered | - Rectify wiring damage |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Short to earth | - Wiring damaged | Igniter for passeng- er's airbag not triggered | - Rectify wiring damage |
| | - Passenger's airbag unit defective | | - Replace passenger's airbag unit |
| | - Airbag control unit de- fective | | - Replace airbag control unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|--|--|--|
| 00591 | | | |
| Driver's side belt switch -E24 | Protected by copy permitted unless with respect to | right. Copying for private or commerci authorised by AUDI AG. AUDI AG doe the correctness of information in this o | al purposes, in part or in whole, is not s not guarantee or accept any liability ocument. Copyright by ALDI AG |
| Short to positive Short to earth Resistance value too high | - Lines damaged | Driver's airbag may al- ready be triggered at low speed | - Rectify wiring damage |
| Implausible switch set- ting | - Driver's belt buckle switch defective | | Replace driver's belt buckle switch |
| 00592 | | | |
| Passenger's side belt buckle switch -E25 | | | |
| Short to positive Short to earth Resistance value too high | - Lines damaged | Driver's airbag may al- ready be triggered at low speed | - Rectify wiring damage |
| Implausible switch set- ting | - Passenger's belt buck- le switch defective | | - Replace passenger's belt buckle switch |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|------------------------|--|--|--|
| 00594 | | | |
| Airbag igniter circuit | | | |
| Driver's airbag | | | |
| Short to positive | - Lines damaged | Igniter for driver's airbag not triggered. | - Rectify wiring damage |
| | - Airbag control unit defec- tive | | - Replace airbag control unit |
| Short to earth | - Wiring damaged | | - Rectify wiring damage |
| | - Self-cancelling ring with coil connector and slip ring defective | | Check self-cancelling ring with coil connector and slip ring General Body Assembly, Interior; Repair group 69; Servicing airbag III and V; Removing and installing self- cancelling ring with coil con- nector and slip ring Servicing airbag III and V; Removing and installing self-cancelling ring with coil connector and slip ring |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---------------------|---------------------------------------|------------------|--------------------------------|
| | - Driver's airbag unit defec- tive | | - Replace driver's airbag unit |
| | - Airbag control unit defec- tive | | - Replace airbag control unit |
| | Continued | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy | |
|---------------------|--|--|--|--|
| 00594 | (Fault 00594 continued) | | | |
| Passenger's airbag | | | | |
| Short to positive | - Lines damaged | Igniter for passenger's air- bag not triggered | - Rectify wiring damage | |
| | - Airbag control unit defective | | - Replace airbag control unit | |
| Short to earth | - Wiring damaged. | | - Rectify wiring damage | |
| | - Passenger's airbag unit de- fective | | - Replace passenger's air- bag unit | |
| | - Airbag control unit defective | | - Replace airbag control unit | |
| 00595 | | | | |
| Crash data stored | - Airbag triggering | Airbag system already trig- gered | Replace control unit, airbag units, belt tensioners and any damaged components | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--|---|--|
| 00654 Belt tensioner igniter, driver's side -N153 Resistance value too high | - Open circuit | No driver's belt tension- er function | - Rectify open circuit in wir- |
| | - Open connection in wiring to driver belt tensioner | | - Close connection |
| | - Igniter for driver's belt ten- sioner defective - Driver's belt tensioner triggered | | - Replace driver's belt ten- sioner |
| | - Airbag control unit defec- tive. | | - Replace airbag control unit |
| Resistance value too low | - Line cross | | - Eliminate end of wiring. |
| | - Igniter for driver's belt ten- sioner defective | | - Replace driver's belt ten- sioner |
| | - Airbag control unit defec- tive Continued ▼ | | - Replace airbag control unit |

| V. | A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|----------|---|--|--|--|
| 00 |)654 | (Fault 00654 continued) ht. Copy | ing for private or commercial purposes, in p | art or in whole, is not |
| Be dr | elt tensioner igniter, iver's side -N153 | permitted unless authorised with respect to the correct | by AUDI AG. AUDI AG does not guarantee ness of information in this document. Copy | or accept any liability light by AUDI AG. |
| | Short to earth | - Wiring damaged | No driver's belt tensioner function | - Rectify wiring damage |
| | | - Igniter for driver's belt ten- sioner defective | | - Replace driver's belt ten- sioner |
| | | - Airbag control unit defective | | - Replace airbag control unit |
| | Short to positive | - Wiring damaged | | - Rectify wiring damage |

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| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---------------------|---------------------------------|------------------|-------------------------------|
| | - Airbag control unit defective | | - Replace airbag control unit |
| | | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|----------------------------------|---|---|---|
| 00655 Belt tensioner igniter, | | | |
| Resistance value too high | - Open circuit | No passenger's belt ten- sioner function | - Rectify open circuit in wir- ing |
| Protec | - Open connection in wir- ing to passenger's belt ten- sionervight. Copying for private or or | mmercial purposes, in part or in whole, is | - Close connection. |
| permi witi | ed unless authorsed by AUDI AG, AUDI religniter for passenger stion belt tensioner defective - Passenger's belt tension- er triggered | AG does not guarantee or accept any lia in this document. Copyright by AUDI AG | - Replace passenger's belt tensioner |
| | - Airbag control unit defec- tive | | - Replace airbag control unit |
| Resistance value too low | - Line cross | | - Eliminate end of wiring. |
| | - Igniter for passenger's belt tensioner defective | | - Replace passenger's belt tensioner |
| | - Airbag control unit defec- tive | | - Replace airbag control unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|---|--|---|
| 00655 | (Fault 00655 contin- ued) | | |
| Igniter for passenger's belt tensioner -N154 | | | |
| Short to earth | - Wiring damaged | No passenger's belt tensioner function | - Rectify wiring dam- age |
| | - Igniter for passenger's belt tensioner defective | | - Replace passenger's belt tensioner |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |
| Short to positive | - Wiring damaged | | - Rectify wiring dam- age |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|--------------------------------------|--|--------------------------------|
| 00656 | | | |
| Seat-occupied sensor, passeng- er's side -G128 | | | |
| Short to positive | - Wiring damaged | No seat-occupied sensor function | - Rectify wiring damage |
| | - Airbag control unit de- fective | | - Replace airbag control unit. |
| Short to earth Resistance value too high | - Wiring damaged | | - Rectify wiring damage |

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| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|---|------------------|---|
| Resistance value too low | - Seat-occupied sensor passenger's side defec- tive | | - Replace passenger's seat-occupied sensor |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Connected to reverse polarity Incorrectly connected | - Wiring connected with reverse polarity | | - Make proper connec- tion |
| | - Diode connected with reverse polarity | | - Replace passenger's seat-occupied sensor |

| V.A.G 1551 printout | | Possible causes of fault | Possible effects | Fault remedy |
|--|-------------------------------------|---|--|---|
| 01025 | | | | |
| Fault lamp actuation defective ä 07.96 | | | | |
| | Open circuit to earth | - Open circuit | Warning lamp for air- bag does not light | - Rectify open circuit in wiring |
| | Short to earth Short to positive | - Wiring damaged unless a with respect to t | ght. Copying for private or commercia uthorised by AUDI AG. AUDI AG does ne correctness of information in this d | purposes in part or in whole, is not The control of the control of |
| | | - Warning lamp defec- tive | | - Replace warning lamp |
| | | - Dash panel insert de- fective | | - Repair dash panel insert |
| | | - Airbag control unit de- fective | | - Replace airbag control unit |
| 01044 | | | | |
| Control ι | unit incorrectly encoded | - Control unit not coded according to vehicle configuration | Fault is stored in fault memory | - Check encoding =>Page 24 |

| V.A.G 1551 printout | | Possible causes of fault | Possible effects | Fault remedy |
|---|--------------------------------------|--|---|---|
| 01211 Rear belt tensioner ignit side -N196 Resistance va high Resistance va low | er, driver's alue too alue too | - Wiring damaged | No rear driver's side belt tensioner function | - Rectify wiring damage |
| Short to earth Open circuit | 1 | Igniter for rear driver's side belt tensioner de- fective Rear driver's side belt tensioner triggered | | - Replace rear driver's side belt tensioner |
| | | - Airbag control unit de- fective | | - Replace airbag control unit |
| Short to posit | ive | - Wiring damaged | | - Rectify wiring damage |
| | | - Airbag control unit de- fective | | - Replace airbag control unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--------------------------|------------------|--------------|
| 01212 | | | |
| Rear belt tensioner igniter, passeng- er's side -N197 | | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|--|--|--|
| Resistance value too high Resistance value too low | - Wiring damaged | No rear passenger's side belt tensioner function | - Rectify wiring damage |
| Short to earth Open circuit | Igniter for rear pas- senger's side belt ten- sioner defective Rear passenger's side belt tensioner triggered | | - Replace rear pas- senger's side belt ten- sioner |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |
| Short to positive | - Wiring damaged | | - Rectify wiring damage |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|---|---|---|
| 01215 Rear seat-occupied sensor, driver's side -G177 | (0 , 0) | | |
| Short to positive | - Wiring damaged | No rear driver's side seat-occupied sensor function | - Rectify wiring damage |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Short to earth Resistance value too high | - Wiring damaged | | - Rectify wiring damage |
| Resistance value too low Protected b permitted with res | - Rear driver's side seat- occupied sensor defection tive the correctness of information in | iercial purposes, in part or in whole, is i does not guarantee or accept any liab his document. Copyright by AUDI AG. | - Replace rear driver's side seat-occupied sen- sor |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Incorrectly connected (re- verse polarity) | - Wiring connected with reverse polarity | | - Make proper connection |
| | - Diode connected with reverse polarity | | - Replace rear driver's side seat-occupied sen- sor |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|--|--|---|
| 01216 | | | |
| Rear seat-occupied sensor, passenger's side -G178 | | | |
| Short to positive | - Wiring damaged | No rear passenger's side seat-occupied sen- sor function | - Rectify wiring damage |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Short to earth Resistance value too high | - Wiring damaged | | - Rectify wiring damage |
| Resistance value too low | - Rear passenger's side seat-occupied sensor defective | | - Replace rear passeng- er's side seat-occupied sensor |
| | - Airbag control unit de- fective | | - Replace airbag control unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|--|------------------|---|
| Incorrectly connected (reverse polarity) | - Wiring connected with reverse polarity | | - Make proper connec- tion |
| | - Diode connected with reverse polarity | | - Replace rear passeng- er's side seat-occupied sensor |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--|---|---|
| 01217 | | | |
| Igniter for front side airbag, driver's side -N199 | | | |
| Resistance value too high | - Open circuit | Igniter for front side airbag (driver's side) not triggered | - Rectify open circuit in wiring |
| | - Front side airbag unit (driver's side) defective | | - Replace front side air- bag unit (driver's side) |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Resistance value too low | - Line cross | | - Eliminate end of wir- ing. |
| | - Front side airbag unit (driver's side) defective | | - Replace front side air- bag unit (driver's side) |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| | Continued < | | |

| | V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|-----------------|---|---|---|--|
| | 01217 | (Fault 01217 contin- ued) | | |
| Protecte | Igniter for front side airbag, driver's sideopNg199opying for private or commercial purpose | s, in part or in whole, is not | | |
| permitt with | ed unless authorised by Short to Dositrives not guar respect to the correctness of information in this document. | an t Wiringe dam aged Copyright by AUDI AG: | Igniter for front side airbag (driver's side) not triggered | - Rectify wiring dam- age |
| | | - Airbag control unit de- fective | | - Replace airbag con- trol unit |
| | Short to earth | - Wiring damaged | | - Rectify wiring dam- age |
| | | - Front side airbag unit (driver's side) defective | | - Replace front side airbag unit (driver's side) |
| | | - Airbag control unit de- fective | | - Replace airbag con- trol unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--------------------------|--|----------------------------------|
| 01218 | | | |
| Igniter for front side airbag, passeng- er's side -N200 | | | |
| Resistance value too high | - Open circuit | Igniter for front side airbag (passenger's side) not triggered | - Rectify open circuit in wiring |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|-----------------------------|---|------------------|--|
| | - Front side airbag unit (passenger's side) de- fective | | - Replace front side air- bag unit (passenger's side) |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |
| Resistance value too low | - Line cross | | - Eliminate end of wir- ing |
| | - Front side airbag unit (passenger's side) de- fective | | - Replace front side air- bag unit (passenger's side) |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |
| | Continued < | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|---|---|---|
| 01218 | (Fault 01218 contin- ued) | | |
| Igniter for front side airbag, passenger's side -N200 | | | |
| Short to positive | - Wiring damaged | Igniter for front side airbag (driver's side) not triggered | - Rectify wiring dam- age |
| | - Airbag control unit defective | | - Replace airbag con- trol unit |
| Short to earth | - Wiring damaged | | - Rectify wiring dam- age |
| | - Front side airbag unit (passenger's side) de- fective | | - Replace front side airbag unit (passeng- er's side) |
| | - Airbag control unit defective | | - Replace airbag con- trol unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|---|--|--|
| 01219 | | | |
| Igniter for rear side airbag, driver's side -N201 | | | |
| Resistance value too high | - Open circuit | Igniter for rear side air- bag (driver's side) not triggered | - Rectify open circuit in wiring |
| | - Rear side airbag unit defective (driver's side) | | - Replace rear side air- bag unit (driver's side) |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Resistance value too low | - Line cross | | - Eliminate end of wiring |
| Protected by copyright. Copying for private or or permitted unless authorised by AUDI AG. AUI with respect to the correctness of information | Rear side airbag unit defective (driver's side) | ele, is not ny liability I AG. | - Replace rear side air- bag unit (driver's side) |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| | Continued < | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|---|--|--|
| 01219 | (Fault 01219 contin- ued) | | |
| Igniter for rear side airbag, driver's side -N201 | | | |
| Short to positive | - Wiring damaged | Igniter for rear side airbag (driver's side) not triggered | - Rectify wiring dam- age |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |
| Short to earth | - Wiring damaged | | - Rectify wiring dam- age |
| | - Rear side airbag unit (driver's side) defective | | - Replace rear side air- bag unit (driver's side) |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|--|--|---|
| 01220 | | | |
| Igniter for rear side airbag, passeng- er's side -N202 | | | |
| Resistance value too high | - Open circuit | Igniter for passeng- er's rear side airbag not triggered | - Rectify open circuit in wiring |
| | - Rear side airbag unit (passenger's side) de- fective | | - Replace rear side air- bag unit (passenger's side) |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |
| Resistance value too low | - Line cross | | - Eliminate end of wir- ing |
| Protected by copyright. Copying for private or commen permitted unless authorised by AUDI AG. AUDI AG do with respect to the correctness of information in this | Rear side airbag unit r (passenger's side) de ^{abi} fective | ot ity | - Replace rear side air- bag unit (passenger's side) |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |
| | Continued < | | |

| V.A.G 1551 print | tout | Possible causes of fault | Possible effects | Fault remedy |
|--------------------------------|------------------------|--|---|--|
| 01220 | | (Fault 01220 contin- ued) | | |
| Igniter for rear signite -N202 | de airbag, passenger's | | | |
| | Short to positive | - Wiring damaged | Igniter for rear side airbag (passenger's side) not triggered | - Rectify wiring dam- age |
| | | - Airbag control unit defective | | - Replace airbag con- trol unit |
| | Short to earth | - Wiring damaged | | - Rectify wiring dam- age |
| | | - Rear side airbag unit (passenger's side) de- fective | | - Replace rear side airbag unit (passeng- er's side) |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---------------------|---|------------------|------------------------------------|
| | Airbag control unit defective | | - Replace airbag con- trol unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|---|---|-------------------------------------|
| 01221 | | | |
| Side airbag crash sensor, driver's side - G179 | | | |
| Open circuit | - Open circuit | No side airbag (driv- er's side) function | - Rectify open circuit in wiring |
| | - Open connector in wiring to driver's crash sensor | | - Close connection |
| | - Driver's crash sensor defective | | - Replace driver's crash sensor |
| | - Airbag control unit defective | | - Replace airbag con- trol unit |
| Short circuit | - Short in wiring to pos- itive or earth | | - Eliminate end of wir- ing. |
| | - Driver's crash sensor defective | | - Replace driver's crash sensor |
| | - Airbag control unit defective | | - Replace airbag con- trol unit |
| | Continued • | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--|--|---|
| 01221 | (Fault 01221 continued) | | |
| Side airbag crash sensor, driver's side -G179 | | | |
| Not authorised | - Crash sensor and air- bag control unit are not matched | No driver's side air- bag function | Replace airbag con- trol unit. Allocation Parts List Replace driver's crash sensor Allocation Parts List |
| Defective | - Crash sensor defec- tive | | - Replace driver's crash sensor |
| | | | - |

| V.A.G 1551 | printout | Possible causes of | Possible effects | Fault remedy |
|---------------------------|--|---|--|---------------------------------------|
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| 01222 | permitted unless authorised by AUDI AG. with respect to the correctness of inform | AUDI AG does not guarantee or a nation in this document. Copyright | cept any liability by AUDI AG. | |
| Side airbag side -G180 | crash sensor, passenger's | | | |
| | Open circuit | - Open circuit | No side airbag (pas- senger's side) func- tion | - Rectify open circuit in wiring |
| | | - Open connector in wiring to passenger's crash sensor | | - Close connection |
| | | - Passenger's crash sensor defective | | - Replace passenger's crash sensor |
| | | - Airbag control unit defective | | - Replace airbag con- trol unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---------------------|---|------------------|---------------------------------------|
| Short circuit | - Short in wiring to positive or earth | | - Eliminate end of wir- ing. |
| | - Passenger's crash sensor defective | | - Replace passenger's crash sensor |
| | - Airbag control unit defective | | - Replace airbag con- trol unit |
| | Continued • | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--|--|--|
| 01222 | (Fault 01222 contin- ued) | | |
| Side airbag crash sensor, passenger's side -G180 | | | |
| Not authorised | - Crash sensor and air- bag control unit are not matched | No side airbag (pas- senger's side) func- tion | Replace airbag con- trol unit. Allocation Parts List Replace passenger's crash sensor Alloca- tion Parts List |
| Defective | - Crash sensor defec- tive. | | - Replace passeng- er's crash sensor |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault reme- dy | |
|--|--|--|--|--|
| 01223 Signal: Open central locking system | - Control unit for Air- bag -J234 defective | Central locking does not unlock af- ter crash signal | - Replace airbag con- trol unit Al- location => Parts List | ht. Copying for private or commercial purposes, in part or in whole, thorised by AUDI AG. AUDI AG does not guarantee or accept any li e correctness of information in this document. Copyright by AUDI A |
| 01228 Key sw. Switch off airbag, pas- senger's side - F224 | | | | |
| Open cir- cuit / short to positive | - Open cir- cuit | Igniter for pas- senger's airbag not triggered | - Rectify open circuit in wiring | |
| | - Key switch - E224 de- fective | | - Replace key switch - E224 | |
| | - Control unit for Air- bag -J234 defective | | - Replace airbag con- trol unit. Al- location => Parts List | |
| Open cir- cuit, short to earth | - Open cir- cuit | | - Rectify open circuit in wiring | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault reme- dy | |
|------------------------|--|---------------------|--|--|
| | - Key switch - E224 de- fective | | - Replace key switch - E224 | |
| | - Control unit for Air- bag -J234 defective | | - Replace airbag con- trol unit. Al- location => Parts List | |

| V.A.G 1551 printout | | Possible causes of fault | Possible effects | Fault remedy |
|---------------------------------------|-------------|--|---|---|
| 01280 | | | | |
| Passenger's airbag de ted 1) | eactiva- | - Passenger's airbag has been deactivated via adaption | No passenger's airbag function | - Adapt airbag control unit accordingly => Page 34 |
| 01578 | | | | |
| Warning lamp for pasa airbag -K145 | senger's | | | |
| Short to positive | | - Wiring damaged Protected by copyright. Cop | Warning lamp for air- bag does not light a purposes | - Rectify wiring damage |
| | | - Control unit for Airbag | t by AUDI AG. AUDI AG does not guara ctness of information in this document. (| prese or accept any liability pReplace airbag control unit. |
| Open circuit/sho to earth | ort circuit | - Open circuit | | - Rectify open circuit in wiring |
| | | Warning lamp for pas- senger's airbag -K145 defective | | Replace warning lamp for passenger's airbag - K145 |
| | | - Control unit for Airbag - J234 defective | | - 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 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|---|--|--|
| 01588 | | | |
| Igniter for head airbag, driver's side -N251 | | | |
| Resistance value too high | - Open circuit | Igniter for driver's head airbag not triggered | Rectify open circuit in wiring |
| | - Head airbag (driver's side) defective | | - Replace head airbag unit (driver's side) |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| | Continued < | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--------------------------|--|---------------------------|
| 01588 | (Fault 01588 continued) | | |
| Igniter for head airbag, driver's side -N251 | | | |
| Resistance value too low | - Line cross | Igniter for driver's head airbag not trig- gered | - Eliminate end of wiring |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---------------------|---|--|---|
| | - Head airbag (driver's side) defective | | - Replace head airbag unit (driver's side) |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Short to positive | - Wiring damaged | Igniter for passenger's rear side airbag not trig- gered | - Rectify wiring damage |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Short to earth | - Wiring damaged | | - Rectify wiring damage |
| | - Head airbag (driver's side) defective | | - Replace head airbag unit (driver's side) |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| | | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|--|--|--|--|
| 01589 | | | |
| Igniter for head airbag, passeng- er's side -N252 | | | |
| Resistance value too high | - Open circuit | Igniter for passenger's head airbag not trig- gered | - Rectify open circuit in wiring |
| Protected by copyright. Co permitted unless authoris with respect to the con | Head airbag unit (pas senger's side) defective | eses, in part or in whole, is not uarantee or accept any liability nt. Copyright by AUDI AG. | - Replace head airbag unit (passenger's side) |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| Resistance value too low | - Line cross | | - Eliminate end of wiring |
| | - Head airbag unit (pas- senger's side) defective | | - Replace head airbag unit (passenger's side) |
| | - Airbag control unit de- fective | | - Replace airbag control unit |
| | Continued • | | |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|---|---|---|--|
| 01589 | (Fault 01589 contin- ued) | | |
| Igniter for head airbag, passenger's side -N252 | | | |
| Short to positive | - Wiring damaged | Igniter for passeng- er's head airbag not triggered | - Rectify wiring dam- age |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |
| Short to earth | - Wiring damaged | | - Rectify wiring dam- age |
| | - Head airbag unit (pas- senger's side) defec- tive | | - Replace head airbag unit (passenger's side) |
| | - Airbag control unit de- fective | | - Replace airbag con- trol unit |

| V.A.G 1551 printout | Possible causes of fault | Possible effects | Fault remedy |
|-----------------------------------|--------------------------------------|---|-------------------------------|
| 65535 1) | | | |
| Control unit defective | - Airbag control unit de- fective | Airbag system does not function | - Replace airbag control unit |
| Control unit incorrectly coded 2) | - Coding wrong | Airbag system does not function | - Check encoding =>Page 24 |

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

2) Display with fault code only with Airbag V (approx. 11.94 ä 06.96).

Note:

Fault 65535 - "Control unit defective" cannot be erased using the V.A.G 1551 fault reader.

2.7 - Final control diagnosis up to CW 18.99

The final control diagnosis checks the function of the crash output. When the airbag is activated the central locking is switched to "Open" at the same time.

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.
- Starting airbag system self-diagnosis => Page 5.



- 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 tos "lock". Copyright by AUDI AG.

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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 39.

| -> Indicated on display | | | |
|-------------------------|---------|-----------|--|
| Final End | control | diagnosis | |

- Press ⇒key.

| -> Indicated on display | | |
|---|------|--|
| Rapid data transfer Select function XX | HELP | |

2.8 - Final control diagnosis as of week 18.99

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 system must be switched to "close" (press the internal switch) and the motor started.
- Switch interior light switch to position "door contact".
- After the Final Control Diagnosis, the central locking controls are not active until the fault memory of CL control unit has been erased.

Performing function "03 - final control diagnosis"

| -> Indicated on display: | | | |
|--|-----------|------------------|-----------------|
| Rapid data transfer Select function XX | HELP | | |
| - Press keys -0- and -3 | | | |
| Rapid data transfer 03 - Final control diagno | Q osis | | |
| - Confirm input with Q ke | | a far a insta ar | in next ou in u |

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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 39.

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 ignition and injection in the Workshop Manual in Repair group: 01 Self-diagnosis; erasing and interrogating fault memory.

According to engine type, the fuel supply shuts off as of week 18.99 onwards.

If the engine does not start, check whether the fuel supply shut off in the engine has been activated.

=> Current flow diagrams binder

If the engine does not start and the fuel supply shut off in the engine has been activated, check wiring to the engine.

=> Current flow diagrams binder

| Final control diagnosis | -> Indicated on display: | | | |
|-------------------------|--------------------------|---------|-----------|--|
| End | Final End | control | diagnosis | |

- Press ⇒key.

| -> Indicated on display: | | |
|--------------------------|------|--|
| Rapid data transfer | HELP | |
| Select function XX | | |

2.9 - Encoding control unit

Notes:

- Control unit is not factory-coded.
- The airbag fault light always lights up when the control unit is not encoded.
- Starting airbag system self-diagnosis => Page 5.

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:

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|---|---|
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| Rapid data transfer Select function XX | with respect to the correctriess of information in this document. Copyright by AUDI AG. |

- Enter "07" for the function "Encode control unit" and confirm entry with Q key.

| -> Indicated on display | | | | |
|--|------------|-----------|--|--|
| Code control unit Enter code number | Q XXXXX | (0-32000) | | |

- Enter valid 5-digit control unit code in line with encoding table => Page 24.

Encoding table up to Model Year 2000

| Airbag system | Code number |
|--|-------------|
| Airbag III (ä approx. 11.94) | 00127 |
| Airbag V (approx. 11.94 ä 06.96) | 01022 |
| Airbag 7 (07.96 ä 06.97) | 00224 |
| Airbag 7 (07.97 ä 09.98) | 00225 |
| Airbag 8 (introduced as of 10.98) two rear belt tensioners | 00225 |
| Airbag 8 (introduced as of 10.98) three rear belt tensioners | 00227 |
| Airbag 8 (introduced as of 10.98) two rear belt tensioners key switch, switch off Airbag BTU | 01225 |

| Airbag system | Code number |
|---|-------------|
| Airbag 8 (introduced as of 10.98) three rear belt tensioners, key switch, switch off Airbag BTU | 01227 |
| Airbag 8 (introduced as of 10.98) head airbag, two rear belt tensioners, | 00425 |
| Airbag 8 (introduced as of 10.98) head airbag, three rear belt tensioners, | 00427 |
| Airbag 8 (introduced as of 10.98) head airbag, two rear belt tensioners, key switch, switch off Airbag BTU | 01425 |
| Airbag 8 (introduced as of 10.98) head airbag, three rear belt tensioners, key switch off Airbag BTeUr commercial purposes, in part or in whole, is not | 01427 |
| permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability | |

Encoding table as of Model Year 2001

| Airbag system | Code number |
|--|-------------|
| Airbag 8 two rear belt tensioners | 00215 |
| Airbag 8 three rear belt tensioners | 00217 |
| Airbag 8 two rear belt tensioners, key switch switch off Airbag BTU | 01215 |
| Airbag 8 three rear belt tensioners, key switch switch off Airbag BTU | 01217 |
| Airbag 8 head airbag, two rear belt tensioners | 00415 |
| Airbag 8 head airbag, three rear belt tensioners | 00417 |
| Airbag 8 head airbag, two rear belt tensioners, key switch switch off Airbag BTU | 01415 |
| Airbag 8 head airbag, three rear belt tensioners, key switch switch off Airbag BTU | 01417 |

-> If adjacent display appears (example):

Code control unit Q Enter code number 00224 (0-32000)

- Confirm entry with Q key.

-> The display on the fault reader V.A.G 1551 will show the control unit identification code (example).

| 4D0959655C | Airbag 7 | AUDI |
|------------|-----------|------|
| Code 00224 | WSC 12345 | |

Note:

For vehicles with airbag 8 the display shows Airbag Front + side or Airbag Front + head instead of Airbag III, Airbag V, Airbag 7.

- Press ⇒key.

| -> Display function selection: | | | |
|--------------------------------|---------|--|--|
| Rapid data transf | er HELP | | |
| Select function X | X | | |

Encoding control unit after deactivating rear side airbags

Control unit has to be re-encoded after deactivating rear side airbags:

=> General Body Assembly, Interior; Repair group 69; Rear side airbags - deactivation Rear side airbags - deactivation

- Starting airbag system self-diagnosis => Page 5.

-> Indicated on display Rapid data transfer HELP Select function XX - Enter "07" for the function "Encode control unit" and confirm entry with Q key.

| -> In | dicated c | on displa | ay | |
|-------|-----------|-----------|-----|--|
| Code | control | unit | . 0 | |

| code | contro | JI UNIL | Q | |
|-------|--------|---------|-------|-----------|
| Enter | code | number | XXXXX | (0-32000) |
| | | | | |

Airbag 7 (ä 10.98)

- Enter 5-digit control unit code in with table.

| Airbag system | Rear side airbags | Code number |
|-----------------------------|-------------------|-------------|
| Airbag 7 (07.96 ä 06.97) | deactivated | 00124 |
| Airbag 7 (07.97 ä) | deactivated | 00125 |

-> If adjacent display appears (example):

Code control unit Q Enter code number 00124 (0 - 32000)

Airbag 8 (introduced as of 10.98)

- With Airbag 8 (introduced as of 10.98) the coding changes from 2 to 1 and from 4 to 3 see coding table => Page 24
- Changing coding from 01425 to 01325 or 01225 to 01125 (examples).

-> If adjacent display appears (example):

| Code control unit | Q | | | |
|-------------------|-------|----|---|--------|
| Enter code number | 01325 | (0 | - | 32000) |

All

- Confirm entry with Q key.

| -> The display | on the fault i | reader V.A. | 1551 will show the control unit identification code (example) are a commercial purposes in part or in whole, is not |
|----------------|----------------|-------------|---|
| 4D0959655C | Airbag 7 | AUDI | with respect to the correctness of information in this document. Copyright by AUDI AG. |
| D00 🗆 | | | |
| Code 00124 | WSC 12345 | | |

- Press ⇒key.

-> Display function (selection):

Rapid data transfer HELP Select function XX

Encoding control unit after activating rear side airbags

Control unit has to be re-encoded after activating rear side airbags:

=> General Body Assembly, Interior; Repair group 69; Rear side airbags - deactivation Rear side airbags - deactivation

- Starting airbag system self-diagnosis => Page 5.

| -> Indicated on display | | |
|---|------|--|
| Rapid data transfer Select function XX | HELP | |

- Enter "07" for the function "Encode control unit" and confirm entry with Q key.
- -> Indicated on display

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

Airbag 7 (ä 10.98)

- Enter 5-digit control unit code in with table.

| Airbag system | Rear side airbags | Code number |
|-----------------------------|-------------------|-------------|
| Airbag 7 (07.96 ä 06.97) | activated | 00224 |
| Airbag 7 (07.97 ä) | activated | 00225 |

-> If adjacent display appears (example service by copyright. Copying for private or commercial purposes, in part or in whole, is not code control unit Q with espect to the correctness of information in this document. Copyright by AUDI AG. Enter code number 00224 (0-32000)

Airbag 8 (introduced as of 10.98)

- With Airbag 8 (introduced as of 10.98) the coding changes from 1 to 2 and from 3 to 4 see coding table =>
 Page 24
- Changing coding from 01325 to 01425 or 01225 to 01125 (examples).

-> If adjacent display appears (example):

| Code control unit | Q | | |
|-------------------|-------|------|--------|
| Enter code number | 01425 | (0 - | 32000) |

All

- Confirm entry with Q key.

-> The display on the fault reader V.A.G 1551 will show the control unit identification code (example).

| 4D0959655C | Airbag 7 | AUDI |
|------------|-----------|------|
| D00 🗆 | | |
| Code 00224 | WSC 12345 | |

- Press ⇒key.
- -> Display function (selection):

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

2.10 - Reading measured value block > 10.98

The current airbag system status can be ascertained using the "Read measured value block" function.

- Starting airbag system self-diagnosis => Page 5.



- Enter "08" to select the function "Reading measured value block" and confirm entry with Q key.

-> Indicated on display Reading measured value block Q Enter display group number XXX

- Enter desired display group number and confirm input with Q key.
 Airbag V (approx. 11.94 ä 06.96): 001 =>Page 28.
 Airbag 7 (07.96 ä): 001 ... 006 => Page 28 onwards _

-> Display for display group 001 (example):

| Read | meas | ured | value | block | 1 | |
|------|------|------|-------|-------|---|--|
| 1 | 2 | 3 | 4 | | | |

If specified values are attained in all display zones, press \Rightarrow key. -

Note:

Possible causes of fault and fault remedy => from page 7

-> Display function (selection): Rapid data transfer Select function XX HELP

Display group 001

| Airbag V (| (approx. 1 | 1.94 ä 06.96) |) | | |
|---|---|---------------|-------------------------|--|--|
| Read measured value block 1 \Rightarrow | | | ⇒ | ✓ Display (example) | |
| 1111 | 1111 | 1111 | 11111 blotected by c | copyright. Copying for private or commercial purposes, in part or in whole, is not | |
| | permitted unles Patssender's belt tensioner: Possible displays Hsoffest t with respect to ble correctness of information in this document. Copyright by AUDI AG. | | | | |
| | | | Driver's belt ten | sioner: Possible displays => Test table | |
| | | Passenger's | airbag: Possible | e displays => Test table | |
| | Driver's a | irbag: Possit | ole displays => Te | est table | |
| Airbag 7 (| 07.96 ä) | | | | |
| Read mea | asured val | ue block 1 | ⇒ | ✓ Display (example) | |
| correct | correct | correct | correct | | |
| | | | | Passenger's belt tensioner: Possible displays => Test ta- ble | |
| | Driver's belt tensioner: Possible displays => Test table | | | | |
| Passenger's airbag: Possible displays => Test table | | | | | |
| | Driver's a | irbag: Possit | ole displays => Te | est table | |
| | | | | | |

Test table, display group 001

| Airbag V (approx. 11.94 ä 06.96) | | Airbag 7 (07.96 ä): | |
|----------------------------------|-----------------------|---------------------|-----------------------|
| 1111 | = Resistance OK | correct | = Resistance OK |
| 0111 | = Resistance too high | too high | = Resistance too high |
| 1011 | = Resistance too low | too low | = Resistance too low |
| 1101 | = Short to earth | to earth | = Short to earth |
| 1110 | = Short to positive | to positive | = Short to positive |

Display group 002

| Read measured value block 2 ⇒ | | Display (example) | | |
|--|--|---------------------------------------|---|--|
| correct | correct | correct | - | |
| | | | | Display zone not used. |
| | Rear belt tensioner, centre: Possible displays => Test | | | ioner, centre: Possible displays => Test table |
| Rear belt tensioner, passenger's side: Possible displays => Test table | | | | |
| Rear belt tensioner, driver's side: Possible displays => Test table | | | | |
| | | | | |

Test table, display group 002

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

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

Display group 003

| Read mea | asured v | alue block 3 | ⇒ | ✓ Display (example) | | |
|---|---|--------------|-----------------------|--|--|--|
| correct | used | Belt: yes | Belt: yes | | | |
| | | | | Belt buckle switch, passenger's side: Possible displays => Test table | | |
| | | | Belt buckle switch, c | Iriver's side: Possible displays => Test table | | |
| | Seat-occupied sensor, passenger's side: Possible displays => Test table | | | | | |
| Power supply: Possible displays => Test table | | | | | | |
| | | | | | | |

| Test tab | le, display | group 003 | |
|----------|-------------|-----------|--|
| | | | |

| Display zone 1 | Display zone 2 | Display zones 3 and 4 | | |
|----------------|-------------------------------|-----------------------|-------------|-----------------------|
| correct | used | | Belt: yes | |
| too low | not used | Belt: no | | |
| | connected to reverse polarity | | not defined | |
| | too high | = Resistance too high | too high | = Resistance too high |
| | too low | = Resistance too low | too low | = Resistance too low |
| | to earth | = Short to earth | to earth | = Short to earth |
| | to positive | = Short to positive | to positive | = Short to positive |

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| Read mea | asured v | alue block 4 | | ⇒ | I → Display (example) |
|----------|----------|--------------|-----------|---|-----------------------|
| Belt: | yes | Belt: yes | Belt: yes | - | |
| | | | | | Display zone not used |

٦



Display group 005

| Read mea | asured value bl | ock 5 | ⇒ | I → Display (example) | | |
|---|--|--|--|--|--|--|
| correct | correct | correct | correct | | | |
| Protected by | copyright. Copying for | private or commercial purpos | ses in part or in whole is not | Igniter for front side airbag, passenger's side: Possible displays => Test table | | |
| permitted un with respe | ess authorised by AUI ct to the correctness o | DI AG. AUDI AG does not gua information in this documen | arigniterfortrearaside a t. Testatable ^{UDI AG.} | irbag, driver' s side: Possible displays => | | |
| | | Igniter for front side | e airbag, passenger's | side: Possible displays => Test table | | |
| Igniter for front side airbag, driver's side: Possible displays => Test table | | | | | | |
| | | | | | | |

Test table, display group 005

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

Display group 006

| Read measured value block 6 | | | ⇒ | ✓ Display (example) |
|-------------------------------------|---|-------------------|----------------|---|
| used used - | | | - | |
| | | | | Display zone not used. |
| | | | Display zone | not used |
| | | Rear seat-occupie | d sensor, pass | enger's side: Possible displays => Test table |
| Rear seat-occupied sensor, driver's | | | side: Possible | displays => Test table |
| · | • | · · · | | ••• |

Test table, display group 006

| used | | | | |
|-------------------------------|-------------------------------|--|--|--|
| not used | | | | |
| connected to reverse polarity | connected to reverse polarity | | | |
| too high | = Resistance too high | | | |
| too low | = Resistance too low | | | |

| to earth | = Short to earth |
|-------------|---------------------|
| to positive | = Short to positive |

2.11 - Read measured value block, Airbag 8 (merging from 10.98)

The current airbag system status can be ascertained using the "Read measured value block" function.

- Starting airbag system self-diagnosis => Page 5.

| -> Indicated on display | | | | |
|---|------|--|--|--|
| Rapid data transfer Select function XX | HELP | | | |

- Enter "08" to select the function "Reading measured value block" and confirm entry with Q key.

-> Indicated on display Reading measured value block Q Enter display group number XXX

 Enter desired display group number and confirm input with Q key.
 Airbag 8 (introduced as of 10.98): 001 ... 008 =>from Page 31

-> Display for display group 001 (example): Read measured value block 1

- If specified values are attained in all display zones, press ⇒key.

Note:

Possible causes of fault and fault remedy => from Page

-> Display function (selection):

Rapid data transfer HELP Select function XX

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2.12 - Airbag 8 (introduced as of 10.98)

Display group 001

| Read measured value block 1 \Rightarrow | | | ⇒ |]≺ Display (example) | | |
|---|---------|---------|-------------------|--|--|--|
| correct | correct | correct | correct | | | |
| | | | | Passenger's belt tensioner: Possible displays => Test ta- ble | | |
| | | | Driver's belt ten | isioner: Possible displays => Test table | | |
| Passenger's airbag: Possible displays => Test table | | | | | | |
| Driver's airbag: Possible displays => Test table | | | | | | |
| | | | | | | |

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Test table, display group 001

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

Display group 002

| Read measured value block 2 | | | ⇒ | ✓ Display (example) | |
|---|---------|--|--|---|--|
| correct | correct | correct | too high | | |
| | | | | Disregard display zone | |
| | | | Rear belt tensioner, centre: Possible displays => Test table | | |
| | | Rear belt tensioner, passenger's side: Possible displays => Test table | | | |
| Rear belt tensioner, driver's side: Possible displays => Test table | | | | | |
| | | | | | |

Test table, display group 002

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

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

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| Read measured value block 3 | | | ⇒ |] | |
|-----------------------------|---|-----------|-----------------------|--|--|
| correct | used | Belt: yes | Belt: yes | | |
| | | | | Belt buckle switch, passenger's side: Possible displays => Test table | |
| | | | Belt buckle switch, o | driver's side: Possible displays => Test table | |
| | Seat-occupied sensor, passenger's side: Possible displays => Test table | | | | |
| | Power supply: Possible displays => Test table | | | | |
| | | | | | |

Test table, display group 003

| Display zone 1 | Display zone 2 | | Display zones 3 and 4 | |
|----------------|-------------------------------|-----------------------|-----------------------|-----------------------|
| correct | used | | Belt: yes | |
| too low | not used | | Belt: no | |
| | connected to reverse polarity | | not defined | |
| | too high | = Resistance too high | too high | = Resistance too high |
| | too low | = Resistance too low | too low | = Resistance too low |
| | to earth | = Short to earth | to earth | = Short to earth |
| Display zone 1 | Display zone 2 | | Display zon | es 3 and 4 |
|----------------|----------------|---------------------|-------------|---------------------|
| | to positive | = Short to positive | to positive | = Short to positive |

Display group 004

| Read measured v | alue block 4 | | ⇒ |
|-----------------|--|---|---|
| Belt: yes | Belt: yes | Belt: yes | - |
| | | | Display zone not used |
| | | | Rear seat belt query centre: • Belt: yes • Belt: no |
| | | Rear seat belt que • Belt: yes • Belt: no | ery passenger's side: |
| | Rear seat belt qu • Belt: yes • Belt: no | ery, driver's side: | |

Test table, display group 004

| correct | = Resistance OK | |
|--|-----------------------|--|
| too high | = Resistance too high | |
| too dowed by copyright. Copying for private or commer Resistance too low ole, is not | | |
| to perification of the second se | | |
| to positive | = Short to positive | |

Display group 006

| Read measured value block 6 | | | ⇒ | I Isplay (example) |
|--|---------|---------|--|--|
| correct | correct | correct | correct | |
| | | | | Igniter for front side airbag, passenger's side: Possible displays => Test table |
| | | | Igniter for rear side ai Test table | irbag, driver' s side: Possible displays => |
| Igniter for front side airbag, passenger's side: Possible displays => Test table | | | | |
| Igniter for front side airbag, driver's side: Possible displays => Test table | | | | |
| | | | | |

Test table, display group 006

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

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Display group 007

| Read meas | sured value block | 7 | ⇒ | I Display (example) |
|--|-------------------|---|--------------|-----------------------|
| used | used | _ | - | |
| | | | | Display zone not used |
| | | | Display zone | not used |
| Rear seat-occupied sensor, passenger's side: Possible displays => Test table | | | | |
| Rear seat-occupied sensor, driver's side: Possible displays => Test table | | | | |
| | | | | |

Test table, display group 007

| used | |
|-------------------------------|-----------------------|
| Not used | |
| Connected to reverse polarity | |
| too high | = Resistance too high |
| too low | = Resistance too low |
| to earth | = Short to earth |
| to positive | = Short to positive |
| | |

Display group 008

| I | | | | | | |
|-----------------------------|---------|-----------------|---------------------------------------|------------------------------|--|--------|
| Read measured value block 8 | | ⇒ | Display (example) | | | |
| | correct | correct | correct | correct | | |
| | | | | | Igniter for head airbag, passenger's side Possible displays => Test table | |
| | | | | Igniter for head airbattable | g, driver's side: Possible displays => Test | |
| | | | Igniter for airbag, se | cond stage, passenge | er's side: Possible displays => Test table is | no |
| | | Igniter airbag, | second stage, driver | s side: Possible displ | aysb⊭SUTest tableG does not guarantee or accept any liab | oility |
| I | | | | | AC. | |

Test table, display group 008

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

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

2.13 - Adaption: Activate and deactivate passenger's airbag unit (vehicles 1997 only >)

With the function adaption the passenger's airbag may be disabled and reactivated from Airbag 7 onwards.

- Starting airbag system self-diagnosis => Page 5.

| - multated on display |
|-----------------------|
|-----------------------|

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

- Enter "10" to select the "Adaption" function and confirm with the Q key.

| Adaption Q | -> Indicated on dis | splay |
|---------------------|---------------------------------|-------|
| Feed in channel No. | Adaption Q Feed in channel N | No. |

- Enter "01" to select "adaptation channel 01" and confirm entry with Q key.

-> Indicated on display:

```
The display shows the current status of the passenger's airbag (e.g deactivated)
Channel 1 Adaption 1
```

- 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

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-> Indicated on display:



- Confirm input with Q key.

-> Indicated on display:

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

- Press the \Rightarrow key to terminate the adaption procedure.

-> Indicated on display:

| Rapid data | transfer | HELP |
|--------------|----------|------|
| Select funct | tion XX | |

- Switch ignition off.
- Unplug connectors for fault reader V.A.G 1551.
- Switch the ignition on.
- The airbag warning lamp -K75 initially lights up for approx. 4 seconds and then flashes for a further approx. 15 seconds. This indicates that the passenger airbag has been disabled. Customers are to be informed of this modification to the warning lamp actuation. The fault "01280" "Passenger's airbag deactivated" is stored when the passenger's airbag is deactivated.
- ٠



-> Attach sticker (passenger's airbag deactivated) to mirror trim on passenger door.

The registration card enclosed with the sticker must be completed after deactivating the passenger 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:

| Channe | el 1 | Adaptio | on 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 Store changed | Adaption value? | 0 | Q |

Confirm input with Q key.

-> Indicated on display:

| Channel | 1 | Ada | aption | 0 |
|---------|-------|-----|--------|---|
| Changed | value | is | stored | d |

Press the \Rightarrow key to terminate the adaption procedure.

-> Indicated on display:



-> Remove the "passenger's airbag deactivated" sticker from the mirror trim on the passenger door.

The registration card supplied to the customer must be completed after activating the passenger 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 - Central locking system self-diagnosis 07.96 ä

3.1 - Central locking system self-diagnosis 07.96 ä

General notes

- The central locking system with radio remote control (07.96 ▸) features self-diagnosis capabilities. Using the fault memory, the final control diagnosis and the measured value blocks simplifies fault finding.
- The central locking has two pneumatic circuits. Driver's door and filler neck compartment lid are connected to the first circuit. The remaining locking positions are connected to the second circuit.
- With the high-security central locking system with customer encoding option, once-only unlocking unlocks the driver's door and the filler neck compartment lid by way of the first pneumatic circuit. If a further unlock command is given immediately, the second pneumatic control circuit is also actuated and the entire vehicle opened.
- If the tailgate lock cylinder is actuated only once, all doors remain locked. The tailgate/boot lid re-lock 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 by way of the tailgate/ boot lid contact switch. If the tailgate/boot is unlocked, the lighting is switched off after exceeding a speed threshold of approx.5, km/hoor after 10 minutes at purposes, in part or in whole, is no
- The remote control system 07.96 I takes the form of a radio remote control system. The receiver is an integral part of the central locking system pump, the aerial an integral part of the wiring harness. 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 monitoring system. 06.97 with self-diagnosis by means of flash code output via LED in switch for rear fog light; 07.97 ▶ with self-diagnosis by means of fault reader V.A.G 1551.
- If requested by customers, certain central locking system functions can be activated/deactivated by way of encoding: Vehicles > 06.97 => Page 49.

3.2 - 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
- Fault reader V.A.G 1551 connected =>Page 1.

-> Indicated on display

| Rapid data trans | sfer | HELP |
|------------------|------|------|
| Select function | XX | |

- Enter "35" for address word "Central locking" and confirm entry with Q key.

-> Indicated on display



- Wait until the next display appears.

-> The display on the fault reader V.A.G 1551 will show the control unit identification code (example).

| 8L0862257 | CL-Pump, anti-theft alarm, |
|------------|----------------------------|
| remote | Dxx |
| Code 10184 | WSC 12345 |
| | |

Note:

You may print out the control unit identification by pressing the PRINT key on the fault reader V.A.G 1551.

Control unit identification (example)

| - 8L0 862 | .257 | Part-No.; assignment => Parts List |
|-------------------|---------------|--|
| - CL Pum - Dxx | p, ATW, Radio | Component designation Control unit data status (soft- ware type) |
| - Code 10 |)184: | Control unit code Codes: e.gvehicles ä 06.97 =>Page 47. |
| - WSC 12 | 345 | Workshop Code of V.A.G 1551 with which encoding was last performed |

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- Press ⇒key.

| -> Display function (selection): | | | |
|--|--------|--|--|
| Rapid data transfe Select function XX | r HELP | | |

Note:

The control unit identification can be displayed again by entering function "01" for "Interrogating control unit version" and confirming with the Q key.

Available functions

| Fault reader V.A.G 1551 and vehicle system tester V.A.G 1552, | Page | |
|---|-------------------------|------------------|
| Address words | | |
| 00 Automatic test sequence | 2 | |
| 35 Central locking | 38 | |
| Functions | | |
| 01 Interrogating control unit version | 39 | |
| 02 Interrogating fault memory | 39 | |
| 03 Final control diagnosis | 45 | |
| 05 Erase fault memory | 40 | |
| 06 End of output | 40 | |
| 07 Encoding control unit | 47 | |
| 08 Reading measured value block vate or co | mmercial propries, in p | art or in whole, |
| with respect to the correctness of information | in this document. Copyr | ight by AUDI A |

3.3 - 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".

- Starting central locking system self-diagnosis => Page 38.

-> Indicated on display

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

- Enter "02" for the function "Interrogate fault memory" and confirm entry with Q key.

-> Indicated on display
No fault recognised!

- Press ⇒key.

or

-> Indicated on display X fault(s) detected

The stored faults are displayed and printed in sequence when the printer is switched on.

Note:

If the printer is switched off, press the \Rightarrow key to display the next fault.

- Press ⇒after the last fault is displayed and printed.

| -> Display fu | unction (sel | ection): |
|---------------|--------------|----------|
| Rapid data | transfer | HELP |
| Select func | tion XX | |

- Rectify printed faults according to fault table => Page 41, then erase fault memory and interrogate the fault memory again as a check.

3.4 - Erase fault memory

Prerequisite:

• Fault memory interrogated => Page 39.

-> Indicated on display

| Rapid data transfer H Select function XX | IELP |
|---|------|
|---|------|

- Enter "05" for the function "Erase fault memory" and confirm entry with Q key.

| -> Indicated on displa | y |
|---|---|
| Rapid data transfer Fault memory is eras | ed |
| Press ⇒ key. Display function (set | election): |
| Rapid data transfer 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. |

Notes:

| -> Indicated on display | | | | | |
|-------------------------|---------|-----|-----|------|--------------|
| Import | tant: | hag | not | heen | interrogated |
| Fault | шешот у | nas | noc | Deen | Interrogated |

or

| -> | | | | | |
|-------|---------|-------|-----|------|--------------|
| Rapid | data ti | ransi | fer | | |
| Fault | memory | has | not | been | interrogated |

Procedure has not been correctly followed.

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.

End of output

-> Indicated on display Rapid data transfer HELP Select function XX

- Enter "06" for "End output" function and confirm entry with Q key.

-> Indicated on display

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

- Detach diagnostic connectors.

3.5 - Fault table

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. The fault memory records all static and sporadic faults.
- 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 the 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.
- If faults relating to switches or actuator elements are saved, always extend the fault finding procedure by monitoring the measured value blocks => Page 50
- 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 reinterrogated.

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|------------------------------|--|--|
| 00955 | | |
| Key 1 | | |
| Adaption limit exceeded | - Key not matched - Key operated more than 200 times while out of range | - Re-match key =>Page <mark>54</mark> . |
| 00956 | | |
| Key 2 | | |
| Adaption limit exceeded | - Key not matched - Key operated more than 200 times while out of range | - Re-match key =>Page <mark>54</mark> . |
| 00957 | | |
| Key 3 | | |
| Adaption limit exceeded | - Key not matched - Key operated more than 200 times while out of range | - Re-match key ≌⊃Page <mark>54</mark> . |

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| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|--|---|---|
| 00958 | | |
| Key 4 | | |
| Adaption limit exceeded | - Key not matched - Key operated more than 200 times while out of range | - Re-match key =>Page <mark>54</mark> . |
| 00991 | | |
| Interior lighting Short to positive | - Short in wiring or in connections | Fault finding according to current flow diagram Current Flow Diagrams, Electrical Fault-finding and Fitting Locations bind- er |

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|------------------------------|---------------------------------|---|
| 01360 | | |
| Open switch for ATW | | |
| Short to earth 1) | - Short to earth in the wiring. | - Fault finding according to current flow di- |
| | | agram |
| | | => Current Flow Diagrams, Electrical |
| | | Fault-Infulling and Fitting Locations binder |

| | - Door contact switch -F2 defective | Check switches and repl., if necess. Seneral Body Assembly, Exterior; Repair group 57; Front door; Removing and installing front door lock with operating elements Front door; Removing and installing front door lock with operating elements |
|----------------------|-------------------------------------|---|
| 01361 | | |
| Close switch for ATW | | |
| Short to earth 1) | - Short to earth in the wiring. | Fault finding according to current flow diagram Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder |
| | - Door contact switch -F3 defective | Check switches and repl., if necess. Seneral Body Assembly, Exterior; Repair group 57; Front door; Removing and installing front door lock with operating elements Front door; Removing and installing front door lock with operating elements |

1) The fault is stored, if earth is applied for more than 1 min., e. g. result. from incorr. operat. of the central locking. Only perform the fault remedy proced. if there are malfunct. otherw. simply erase the fault mem. => Page 45.

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|---|---|---|
| 01362 | | |
| Close tailgate switch -F124 | | |
| Short to earth 1) | - Short to earth in the wiring. | Fault finding according to cur- rent flow diagram Current Flow Diagrams, Elec- trical Fault-finding and Fitting Lo- cations binder |
| | - Switch -F124 defective | - Check switches and repl., if nec- ess. |
| 01363 | | |
| Switch for Gligtdriven door + F59 commercial p | purposes, in part or in whole, is not | |
| permitted unless authorised by AUDI AG, AUDI AG does n with respect to Implausible Signat ion in this doc | ument. This display, can appear de- pending on the system. There is no defect on switch -F59. | - Ignore fault display and erase the fault memory => Page 45 |
| 01364 | | |
| Switch for CL, front passenger door -F1 | 14 | |
| Implausible signal | - This display can appear de- pending on the system. There is no defect on switch -F114 | - Ignore fault display and erase the fault memory => Page 45 |

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 45.

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|---|---------------------------------|---|
| 01365 | | |
| Lock/unlock internal switch/lock switch | | |
| Short to earth 1) | - Short to earth in the wiring. | Fault finding according to current flow diagram Current Flow Diagrams, Electrical Fault-finding and Fitting Locations bind- er |

| | - Switch -F150 defective | Check switches and repl., if necess. => Electrical System; Repair group 96; Repairing switch; Removing and instal- ling switch for high security central lock- ing. Repairing switch; Removing and installing switch for high security central locking. |
|-------------------|--------------------------|---|
| Short to positive | - Short in the wiring | Fault finding according to current flow diagram Current Flow Diagrams, Electrical Fault-finding and Fitting Locations bind- er |
| | - Switch -F150 defective | Check switches and repl., if necess. Electrical System; Repair group 96; Repairing switch; Removing and instal- ling switch for high security central lock- ing. Repairing switch; Removing and installing switch for high security central locking. |

1) The fault is stored, if earth is applied for more than 1 min., e. g. result. from incorr. operat. of the central locking. Only perform the fault remedy proced. if there are malfunct. otherw. simply erase the fault mem. => Page 45.

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|--|--|--|
| 01366 | | |
| Opening via crash signal Short to earth Open circuit/short to positive | Final control diagnosis on airbag control unit -J234 or on control unit for central locking - J429 has been performed Airbag control unit -J234 triggered Short or open circuit in wiring be- tween airbag control unit and central locking control unit | Read fault memory of airbag control unit -J234 Delete fault memory => Page 45 Check wiring and connections be- tween airbag control unit and central locking control unit according to cur- rent flow diagram and repair if nec- essary Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder |
| 01367 | | |
| Switching off central locking pump | - Insufficient pressure in the pneu- matic lines. | Check pneumatic lines for leaks Check all control elements of central locking and replace, if necessary => General Body Assembly, Exterior; Repair group 57; Central locking Central locking |
| | - Central locking pump defective | Replace CL- Pump Seneral Body Assembly, Exterior; Repair group 57; Central locking Central locking |

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|------------------------------|--|---|
| 01368 | | |
| Alarm from boot switch | - ATW has triggered as a result of un- authorised opening of the tailgate. | - Delete fault memory => Page 45 |
| | Contact switch in boot lid -F123 defective Protected by copyright. Copying for private or comm permitted unless authorised by AUDI AG. AUDI AG with respect to the correctness of information in | - Replace switch => Electrical System; Repair group 96; Repairing switch; Removing and instal- ling tailgate contact switch Repairing switch; Removing and installing tailgate contact switch by AUDLAG. |
| 01369 | | |

| Alarm from bonnet switch | - ATW has triggered as a result of un- authorised opening of the bonnet | - Delete fault memory => Page 45 |
|--------------------------|--|---|
| | - Contact switch bonnet lid -F120 de- fective. | Replace switch Electrical System; Repair group 96; Repairing switch; Removing and instal- ling bonnet contact switch Repairing switch; Removing and installing bonnet contact switch |

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|--|--|--|
| 01370 | | |
| Alarm from interior monitor Short to earth Protected by copyright. Copying permitted unless authorised by with respect to the correctnes | ATW has triggered as a result of interior monitor Final control diagnosis on central locking control unit or functional test on interior part or monitor has been performed. Short circuit in wiring connection between control unit for ultrasonic sensors and CL control unit. False alarm. Control unit for ultrasonic sensors -J347 defective | Delete fault memory => Page 62. Check wiring and connections between ultrasonic sensors control unit and central locking control unit according to cur- rent flow diagram and repair if necessary => Current Flow Diagrams, Electrical Fault-finding and Fit- ting Locations binder |
| 01371 Alarm triggered by driver's door contact switch | - ATW has triggered as a re- sult of unauthorised opening of driver's door. | - Delete fault memory => Page 45 |
| | - Door contact switch -F2 de- fective | Check switches and replace, if necessary General Body Assembly, Exterior; Repair group 57; Front door; Removing and in- stalling front door lock with op- erating elements Front door; Removing and installing front door lock with operating ele- ments |

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|--|---|--|
| 01372 | | |
| Alarm triggered by rear door contact switch/ front passenger door. | - ATW has triggered as a re- sult of unauthorised opening of rear doors and/or passen- ger door. | - Delete fault memory => Page <mark>45</mark> |
| | - Door contact switches -F3, - F10, -F11 defective. | Check switches and re- place, if necessary Seneral Body Assembly, Exterior; Repair group 57; Front door Rear door |
| 01373 | | |
| Alarm triggered by earth contact Radio | - ATW has triggered as a re- sult of unauthorised removal of radio. | - Delete fault memory => Page <mark>45</mark> |
| | - Earth connection for ATW is interrupted | - Establish earth connection. |

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|--|--|---|
| 01374 Alarm from terminal 15 | - ATW has triggered as a result of un- authorised starting (short-circuiting) | - Delete fault memory => Page 45 |
| | - Short-circuit between terminals 30 and 15. | Fault finding according to current flow diagram Current Flow Diagrams, Electrical Fault-finding and Fitting Locations bind- er |
| 01389 | | |
| Open switch for tailgate -F124 Short to earth | - Short to earth in the wiring. | Fault finding according to current flow diagram Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder |
| | - Switch -F124 defective | Check switches and replace, if necessary Seneral Body Assembly, Exterior; Repair group 55; Boot lid Boot lid |
| 65535 Control unit defective | Control locking control unit 1/20 do | Popl control lock control unit 1/20 |
| | fective | => General Body Assembly, Exterior; Repair group 57; Central locking Cen- tral locking |

3.6 - Final control diagnosis

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- 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:

| 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.



- Press ⇒key.

-> Indicated on display: Final control diagnosis Activate interior monitor

The central locking control unit transmits a signal to activate the interior monitor.

- The ATW horn is activated briefly for confirmation.
- Warning lamp in rear fog light switch is actuated

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. | |
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| Final control dpagnites usless authorised by AUDI AG. AUDI Simulate crash signalspect to the correctness of information | AG does not guarantee or accept any liability in this document. Copyright by AUDI AG. |

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 40.
- Press ⇒key.

-> Indicated on display:

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

- Press ⇒key.

This returns testing unit to basic function mode.

-> Indicated on display:

| Select function XX | ata transfer HELP | |
|--------------------|-------------------|--|
|--------------------|-------------------|--|

3.7 - Encoding control unit

A standard code for which the control unit is encoded at the factory is provided for the basic function of the central locking system and anti-theft alarm.

- Standard coding for vehicles ä 06.97 =>Page 47.
- Standard coding for vehicles 07.97 ä =>Page 47.
 Standard coding for vehicles 18.00 ä
- Standard coding for vehicles 18.00 å =>Page 48.

If requested by customers, certain central locking system functions can be activated/deactivated by way of encoding:

- Encoding options for vehicles ä 06.97
 =>Page 48.
- Encoding options for vehicles 07.97 ä =>Page 49.
- Encoding options for vehicles 18.00 ä =>Page 49.

3.8 - Standard coding for vehicles > 06.97

Standard code = 10184

| The standard code is the sum total of the fo lowing: | - |
|---|--|
| - Radio remote control is activated | + 8192 |
| - Horn sounds on activation of anti-theft alarr | n + 1024 |
| - Hazard warning lights flash on closing/lock ing via radio remote control the correctness of inform | er con 5 ne2ial p AUDI AG does n ation in this doci |
| - Tailgate/boot lid logic (ATW) | + 256 |
| - Dynamic actuation of interior scanning system | s- + 128 |
| - Comfort closing/locking via radio remote control | + 64 |
| - Anti-theft alarm (ATW) is activated | + 8 |
| Total (Code): | = 10184 |

3.9 - Standard coding for vehicles 07.97 ä

Standard code = 13130

| The standard code is the sum total of the fol- lowing: | • |
|--|--------|
| - Radio remote control is activated | + 8192 |
| - Hazard warning lights flash on opening/un- locking via radio remote control | + 4096 |

| The standard code is the sum total of the fol- lowing: | | |
|--|---|-------|
| - Hazard warning lights flash on closing/lock- ing via radio remote control | + | 512 |
| - Tailgate/boot lid logic (ATW) | + | 256 |
| Comfort closing/locking via radio remote control | + | 64 |
| - Anti-theft alarm (ATW) is activated | + | 8 |
| - Hazard warning lights flash on activating an- ti-theft alarm | + | 2 |
| Total (Code): | = | 13130 |

3.10 - Standard coding for vehicles 18.00 ä

Standard code = 15178

| The standard code is the sum total of the fol- lowing: | |
|---|---------|
| - Radio remote control is activated | + 8192 |
| - Hazard warning lights flash on opening/un- locking via radio remote control | + 4096 |
| Hazard warning lights flash on closing/lock- ing via radio remote control | + 512 |
| - Window lifter logic, USA | + 2048 |
| - Tailgate/boot lid logic (ATW) | + 256 |
| Comfort closing/locking via radio remote control | + 64 |
| - Anti-theft alarm (ATW) is activated | + 8 |
| - Hazard warning lights flash on activating an- ti-theft alarm | + 2 |
| Total (Code): | = 15178 |

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The coding for vehicles as of CW 18/00 also contains modified door or winder lifter logic. As soon as the driver's door is opened when "terminal 15 off", no window lifters can be actuated.

Coding options for vehicles ä 06.97

| High security central locking | Coding |
|--|--------|
| - Individual door unlocking and tailgate/boot lid relocking with radio remote control (SCL) | |
| (Standard code + 4) | 10188 |
| Automatic locking | Coding |
| - Automatic locking as of approx. 15 km/h | |
| (Standard code +32) | 10216 |
| High security central locking and automatic locking | Coding |
| Individual door unlocking and tailgate/boot lid relocking with radio remote control (SCL) Automatic locking as of approx. 15 km/h | |

| (Standard code +4+32) | 10220 |
|---|--------|
| No sounding of horn | Coding |
| - No sounding of horn on anti-theft alarm acti- vation | |
| (Standard code -1024) | 9160 |

Coding options for vehicles 07.97 ä

| High security central locking | Coding | |
|---|----------------------------|---|
| - Individual door unlocking and tailgate/boot lid relocking with radio remote control (SCL) | | |
| (Standard code + 4) | 13134 | |
| Automatic locking | Coding | |
| - Automatic locking as of approx. 15 km/h | | |
| (Standard code +32) | 13162 | |
| High security central locking and automatic locking | Coding | |
| - Individual door unlocking and tailgate/boot lid relocking with radio remote control (SCL) - Automatic locking as of approx. 15 km/hate or Automatic locking as of approx. 15 km/hate or Automatic locking as of approx. | commercial DI AG does I | purposes, in part or in whole, is no ot guarantee or accept any liabilit |
| with (Standard code=+4+32) nation | 13166 | ument. Copyright by AUDI AG. |

Coding options for vehicles 18.00 ä

| | - |
|--|--------|
| High security central locking | Coding |
| - Individual door unlocking and tailgate/boot lid relocking with radio remote control (SCL) | |
| (Standard code + 4) | 15182 |
| | |
| Automatic locking | Coding |
| - Automatic locking as of approx. 15 km/h | |
| (Standard code +32) | 15210 |
| High security central locking and automatic | Codina |
| locking | |
| Individual door unlocking and tailgate/boot lid relocking with radio remote control (SCL) Automatic locking as of approx. 15 km/h | |
| (Standard code +4+32) | 15214 |

Starting central locking system self-diagnosis => Page 38. -

-> Indicated on display

| Rapid d | lata trans | sfer | HELP |
|---------|------------|------|------|
| Select | function | XX | |

- Enter "07" for the function "Encode control unit" and confirm entry with Q key.

-> Indicated on display Code control unit Q Enter code number XXXXX (0 - 32000)

- Enter 5-digit control unit code in with table. Fill empty spaces with 0 (Example: 13166). Standard coding or coding options; Coding control unit => Page 47.

-> If adjacent display appears (example):

Audi A8 1994 ≻ Audi Body Self-diagnosis - Edition 05.1998

| Code control unit Q Enter code number 13166 (0 - 32000) |
|---|
| - Confirm entry with Q key. |
| -> The display on the fault reader V.A.G 1551 will show the control unit identification code (example). |
| 8L0862257E CL-Pump D04 Code 13166 WSC 12345 |
| - Press ⇒key. |
| -> Display function selection: |
| Rapid data transfer HELP Select function XX |
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3.11 - Reading measured value block

The current central locking system status can be ascertained using the "Read measured value block" function.

- Starting central locking system self-diagnosis => Page 38.

| -> Indicated on display | |
|---|------|
| Rapid data transfer Select function XX | HELP |

- Enter "08" to select the function "Reading measured value block" and confirm entry with Q key.



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

-> Display for display group 001 (example): Read measured value block 1 1 2 3 4

- If specified values are attained in all display zones, press ⇒key.

| -> Display function (| selection): |
|---|-------------|
| Rapid data transfer Select function XX | HELP |

3.12 - Measured value block overview

Display group 001

| Read measured value block | k 1 | | | | | | | ⇒ | ✓ Display (exam- |
|---------------------------|------------|---|---|---|------|---|---|---|--|
| 0100 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ple) |

| X X X X X X Boot lid: 1 = opened, 0 = closed Boot light: 1 = Light out Tailgate/boot lid Tailgate/boot lid Tailgate/boot lid Light out Tailgate/boot lid unlocking switch: • 1 = actuated, 0 x X X X Switch for actuator element or interior switch on front passenger door: • 00 = Not actuated, 01 = Lock, 10 = Unlock, 11 = Not witted Switch for actuated, 01 = Lock, 10 = Unlock, 11 = Not permitted Switch for actuated, 01 = Lock, 10 = Unlock, 11 = Not x X Front passenger door: and rear doors: 1 = open, 0 = closed (USA: only rear doors) Driver door: 1 = open, 0 = closed USA: Driver and front passenger door: * Unlock driver/ passenger door: 1 = key actuated, 0 = key in centre position • Lock driver/ passenger door: 1 = key actuated, 0 = key in centre position * Unlock driver/ passenger door: 1 = key actuated, 0 = key in centre position • Lock tailgate/boot lid: 1 = key actuated, 0 = key in centre position | | | | | | | | 1 | | | | | |
|--|---|------------------------------|----------|------------|--------|---------|-----------|--|--|--|---|---|--|
| X X X Front passenger door and rear doors: 1 = open, 0 = closed (USA: only rear doors) Driver door: 1 = open, 0 = closed (USA: Driver and front passenger door) Bonnet: 1 = open, 0 = closed X X Key position in the lock cylinders • Unlock driver/ passenger door: 1 = key actuated, 0 = key in centre position • Lock driver/ passenger door: 1 = key actuated, 0 = key in centre position • Unlock tailgate/boot lid: 1 = key actuated, 0 = key in centre position • Lock tailgate/boot lid: 1 = key actuated, 0 = key in centre position | | | | Х | x | x | x | Switch for passeng • 00 = N permitter Switch for door: • 00 = N permitter | or act er do ot act d or act d ot act d | X tuator bor: tuated uator tuated | X eleme d, 01 = eleme d, 01 = | X ent or inter Lock, 10 ent or inter Lock, 10 | Boot lid: 1 = opened, 0 = closed Boot light: 1 = Light on, 0 = Light out Tailgate/boot lid unlocking switch: • 1 = actuated, 0 = not actuated Tailgate/boot lid unlocking motor: • 1 = Engine run- ning, 0 = Engine not running rior switch on front = Unlock, 11 = Not ior switch on driver = Unlock, 11 = Not |
| Driver door: 1 = open, 0 = closed (USA: Driver and front passenger door) Bonnet: 1 = open, 0 = closed X X X X Key position in the lock cylinders • Unlock driver/ passenger door: 1 = key actuated, 0 = key in centre position • Lock driver/ passenger door: 1 = key actuated, 0 = key in centre position • Unlock tailgate/boot lid: 1 = key actuated, 0 = key in centre position • Lock tailgate/boot lid: 1 = key actuated, 0 = key in centre position | | x x | Х | Front pa | issen | ger do | por and r | ear doors | : 1 = | open, | 0 = cl | osed (US | A: only rear doors) |
| X X X X • Unlock driver/ passenger door: 1 = key actuated, 0 = key in centre position • Lock driver/ passenger door: 1 = key actuated, 0 = key in centre position • Unlock tailgate/boot lid: 1 = key actuated, 0 = key in centre position • Lock tailgate/boot lid: 1 = key actuated, 0 = key in centre position | | | | Driver d | oor: 1 | 1 = op | en, 0 = 0 | closed (U | SA: E | Driver | and fr | ont passe | enger door) |
| X X X X Key position in the lock cylinders Unlock driver/ passenger door: 1 = key actuated, 0 = key in centre position Lock driver/ passenger door: 1 = key actuated, 0 = key in centre position Unlock tailgate/boot lid: 1 = key actuated, 0 = key in centre position Lock tailgate/boot lid: 1 = key actuated, 0 = key in centre position | | | | Bonnet: | 1 = C | ppen, | U = CIOSO | ea | | | | | |
| Lock driver/ passenger door: 1 = key actuated, 0 = key in centre position Unlock tailgate/boot lid: 1 = key actuated, 0 = key in centre position Lock tailgate/boot lid: 1 = key actuated, 0 = key in centre position | | Key posi | tion in | the lock | cylin | ders | | octuated (| ע – ר | ovin | ontro | nosition | |
| Unlock tailgate/boot lid: 1 = key actuated, 0 = key in centre position Lock tailgate/boot lid: 1 = key actuated, 0 = key in centre position | | Lock d | river/ r | assende | er doo | or: 1 = | key act | uated, 0 = | = kev | in ce | ntre p | osition | |
| LOCK tallgate/boot lid: 1 = key actuated, U = key in centre position | | Unlock | tailga | te/boot li | d: 1 = | = key | actuated | l, 0 = key | in cé | ntre p | ositio | n | |
| | L | LOCK tag | aligate | boot lid: | 1 = k | key ac | tuated, (| J = key in | cent | re pos | Sition | | |

Display group 002

| - | | | | | | | | |
|----------|---|--|--------------------------------------|---|--|---|---|--|
| Read mea | asured | l valı | ne p | lock | 2 | | | ⇒ |
| 0100 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | | | | | x | x | x | Terminal 15: 1 = Ignition on, 0 = Ignition off S-contact 1: 1 = S -contact on, 0 = S- contact off Earth signal from radio: 1 = Radio installed, 0 = Radio removed |
| | X | х | Х | Х | Protected by copyring performance Radio reminaction Radio reminactuated Radio reminactuated Radio reminactuated | ote co ote co | ontrol ontrol | switch for "Panic" (only USA): 1 = actuated, 0 = not |
| XXXX | Interi Contr • 1= "Corr "Corr | or lig rol li Terr nfort nfort | ght o ne f nina clos ope | contr or wi al 87 se" fu en" fu | ol: 1 = Interi ndow lifter/s (maintaining unction: 1 = 0 unction: 1 = 0 | or ligh unroc the s Comfo Comfo | nt on, of: supply ort clo ort ope | 0 = Interior light off voltage), 0 = Earth se actuated, 0 = not actuated en actuated, 0 = not actuated |
| | | | | | | | | |

Display group 003

| Read measured value | e block 3 | | | | ⇒ | ✓ Display (ex- ample) |
|---------------------|--|--|-------------------------|--|--|--|
| 0 0 0 1 1 | 0 | 0 | 0 | 0 | 0 | |
| | | X | x | X | X | Radio remote control button "open/unlock" 2): • 1 = actuated, 0 = not actuated Radio remote control button "close/lock" 2): • 1 = actuated, 0 = not actuated Radio remote control button "unlock tailgate/ boot lid" 2): • 1 = actuated, 0 = not actuated Radio remote control button "Panic" (USA on- ly) 2): • 1 = actuated, 0 = not actuated |
| | X | Disregard | meas | ured v | /alue | |
| XXXX | Radio remote control key r pied Radio remote control key r pied Radio remote control key r pied Radio remote control key r | memory loc memory loc memory loc | ation ation ation | 4 1): 1 3 1): 1 2 1): 1 1 1): 1 | 1 = Addre 1 = Addre 1 = Addre 1 = Addre | ss occupied, $0 = \text{not occu-}$ ss occupied, $0 = \text{not occu-}$ ss occupied, $0 = \text{not occu-}$ |
| | pied | | auon | i i). | i – Audre | |
| X Disregard me | asured value | | | | | |

1) The corresponding key memory address for the radio remote control flashes if the radio remote control is actuated.

2) In addition, this measured value block does not display matched radio remote control key, e.g., relating to the function check of the radio remote control key.

Display group 004 (vehicles up to software version D04)



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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.

Display group 004 (vehicles as of software version D05)

| F | Re | ac | d n | ne | ası | ure | ed v | /alı | Je | bloc | k 4 | | | | | | | | | | ⇒ | ✓ Dis- play (exam- plo) |
|---|----|----|-----|----|-----|-----|------|------|----|------|-----|--|---|---|---|---|--|---|---|---|---|---|
| | 1 | 0 | 1 | | | | 1 | | | 0 | 1 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | pie) |



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.

3.13 - 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.

=> 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 52.

| -> | Indicat | ted | on | dis | olav | y: | |
|----|---------|-----|----|-----|------|----|--|
| | | | | | | | |

| Read | measu | red | value | block | 3 |
|------|-------|-----|-------|-------|------|
| | 0 | 000 | 1 | 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) of information in this document. Copyright by AUDI AG.



Notes:

- Repeat adaption 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 54.

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 - Servicing ultrasonic interior scanning system > 06.97

4.1 - Servicing ultrasonic interior scanning system > 06.97

General notes

- The ultrasonic interior scanning system supplements the anti-theft alarm and detects unauthorised entry into the vehicle by way of the side windows and causes the anti-theft alarm to be triggered.
- The vehicle doors are still scanned by way of door contact switches.
- The interior scanning system control unit has a fault memory, but it is not possible to perform self-diagnosis with the fault reader V.A.G 1551.
- If required the interior scanning system 07.95

 can be deactivated by way of a momentary contact switch
 Owner's manual. Deactivation is cancelled automatically on next locking operation.

Function

The ultrasonic interior scanning system 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 interior scanning system control unit actuates the warning lamp in the rear fog light switch. This warning lamp can be used for diagnosing the interior monitor => Page 57.

4.2 - 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 rear fog light switch starts to flash slowly every 2 seconds (f = 0.5 Hz).
- Move your hand through the open window and near to the sensor.
- Alarm is triggered if interior scanning system 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 leff, front right, rear left, rear right".
- Unlockevehicle, and thus deactivate alarm. Copyright by AUDI AG.

- The faults in the fault memory of the relevant control unit must be read out and erased.

4.3 - Interior scanning system diagnosis

Notes:

- The system performs a self-test and passenger compartment adaption during the first 30 seconds after locking and closing all doors and bonnet/tailgate/boot lid. ٠
- The warning lamp in the rear fog light switch lights for approx. 3 seconds after deactivating the interior scanning system 07.95 with the mountaint contact switch in the B-pillar trim.
- Close all vehicle doors and tailgate/boot orrectness of information in this document. Copyright by AUDI AG. Lock vehicle thus activating anti-theft alarm and interior monitor
- -
- Check indication given by warning lamp at rear fog light switch.
- Evaluating indication given by warning lamp on the basis of the diagnosis table => Page 57.

4.4 - Diagnosis table

| Warning lamp indication | Effect/diagnosis | Possible causes of fault | Fault remedy |
|--|--|---|--------------------------------|
| Warning lamp flashes quickly for approx. 2 sec- onds (f = 3.33 Hz) Warning lamp flashes quickly for approx. 28 sec- onds (f = 2.0 Hz) Warning lamp then starts to flash slowly (f = 0.5 Hz) | Self-test OK | | |
| - Warning lamp lights up for approx. 3 seconds | Confirmation of deactiva- tion with momentary contact switch | | |
| Warning lamp flashes quickly for approx. 2 sec- onds (f = 3.33 Hz) Warning lamp lights up for approx. 28 seconds Warning lamp then starts to flash slowly (f = 0.5 Hz) | Self-test not OK | Sensors defective Control unit defective | - Replace sensor => Page 59 |

| Warning lamp indication | Effect/diagnosis | Possible causes of fault | Fault remedy |
|--|---|---|--------------------------------|
| Warning lamp lights up for approx. 2 seconds Warning lamp flashes quickly for approx. 28 sec- onds (f = 2.0 Hz) Warning lamp then starts to flash slowly (f = 0.5 Hz) | All faults rectified | | |
| - Warning lamp lights up for approx. 30 seconds - Warning lamp then starts to flash slowly - (f = 0.5 Hz) | Fault already displayed but not yet rectified | Sensors defective Control unit defective | - Replace sensor => Page 59 |

🕦 Audi A8 1994 ≻ Audi Body Self-diagnosis - Edition 05.1998

| Warning lamp indication | Effect/diagnosis | Possible causes of fault | Fault remedy |
|--|----------------------------|--|--------------------------------------|
| Warning lamp flashes quickly for approx. 2 sec- onds (f = 3.33 Hz) Warning lamp then starts to flash slowly (f = 0.5 Hz) | Control unit not activated | Control unit defective | - Replace control unit => Page 59 |

| Warning lamp indication | Effect/diagnosis | Possible causes of fault | Fault remedy |
|---|---|--|--|
| Warning lamp flashes to Co quickly for approximation approximation onds (f = 3.33 Hz) Warning lamp then starts to flash slowly (f = 0.5 Hz) Warning lamp flashes quickly for approx. 28 sec- onds (f = 2.0 Hz) Warning lamp then starts to flash slowly (f = 0.5 Hz) | o•i•Delayed control∘unitrac⊷ tivation ^{AG.} AUDI AG does not guara tetness of information in this document. • System fully functional | • Door or bonnet/tailgate not closed until after lock- ing | - Close all doors or bonnet/ tailgate/boot lid before locking. |
| Warning lamp flashes quickly for approx. 2 sec- onds (f = 3.33 Hz) Warning lamp does not flash/light up Warning lamp then starts to flash slowly (f = 0.5 Hz) | Interior scanning sys- tem deactivated | Once-only system deac- tivation | - Lock vehicle again. |

4.5 - Fault remedy

Note:

07.95 >: Deactivation with the momentary contact switch is not an integral part of the self-test. In the event of deactivation problems/errors, check momentary contact switch and wiring => Page 61.

Perform servicing work in the stated sequence if faults occur in the ultrasonic interior scanning system: -

Sensor check

- Removing sensors => Page 59.
- Check sensors for visible defects (e.g. connections). Try replacing sensors with new ones, but do not fit B-pillar trim.
- Carry out diagnosis => Page 56.

Diagnosis and functional test OK:

- Check sensors removed.
 - Re-install first old sensor.
 - Carry out diagnosis => Page 56.
 - Re-install second old sensor.
 - Carry out diagnosis => Page 56.
- Replace defective sensor(s) as indicated by checks.
- _ Removing and installing lower B-pillar trim

Diagnosis and functional test not OK:

Replace control unit

Replace control unit => Page 59.

- Carry out diagnosis => Page 56.

Diagnosis and functional test not OK:

Checking wiring

- Check the wiring connections.

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

- Assignment of connector at control unit => Page 60.
- Assignment of connector at sensor => Page 60.
- Rectify any open/short circuit as necessary. Carry out diagnosis => Page 56.

4.6 - Removing and installing ultrasonic sensors for interior scanning system

Removing



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- -> The two sensor units are located at the top of the left and right B pillar trim.
- Removing B-pillar trim.

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

- Screw out bolt -arrow-.
- Detach connector -1- at sensor unit -2-.

Installing

Install in reverse order.

4.7 - Removing and installing control unit for interior scanning system





-> The control unit for the interior scanning system -1- is located at the rear left of the luggage compartment beneath the pump for the central locking system -2-.

- Remove rear left luggage compartment trim.
- Screw out the 2 nuts -arrows-.
- Detach connector at control unit. _

Installing

Install in reverse order.

Assignment of connector at control unit





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- Control unit removed
 - -> Power supply, terminal 30 ä 06.95: Vacant 1 -
 - 2 -
 - 07.95 ä: Earth terminal 31
 - 3 -Activation/Deactivation of CL pump
 - 4 -Fan low
 - 5 -Power supply left sensor
 - 6 -Earth left sensor
 - 7 -Analogue signal, left sensor
 - 8 -40 kHz-Clock pulse, left sensor
 - ä 06.95: Vacant 9 -
 - 07.95 ä: Deactivation switch
 - 10 -Warning lamp output
 - Earth, terminal 31 11 -
 - 12 not used
 - 13 -Input, door contacts
 - 14 -Fan high
 - 15 -Power supply right sensor
 - 16 -Earth right sensor
 - 17 -Analogue signal, right sensor
 - 40 kHz-Clock pulse, right sensor 18 -
 - 19 not used
 - 20 -Alarm output to CL pump

Assignment of connector at sensor



- Sensor unit removed
 - 1 -> 40 kHz-clock pulse
 - 2 Supply voltage 3 - Earth
 - 4 Analogue signal





- Removing driver's B-pillar trim

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

- Press momentary contact switch -1- out of B-pillar trim and check in line with current flow diagram.

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

- Check wiring to control unit -5-.
 - 2 Cable tie
 - 3 Connector
 - 4 Earth wire

5 - Ultrasonic interior scanning system self-diagnosis 07.97 ä

5.1 - Ultrasonic interior scanning system self-diagnosis 07.97 ä

General notes

function

- The ultrasonic interior scanning system supplements the anti-theft alarm and detects unauthorised entry into the vehicle by way of the side windows and causes the anti-theft alarm to be triggered.
- If required, the interior scanning system can be deactivated by way of a momentary contact switch => Owner's manual. Deactivation is cancelled automatically on next locking operation.
- Fault remedy and work on components of interior scanning system => from Page 58 mmercial purposes, in part or in whole, is not

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The ultrasonic interior scanning system 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 anti-theft alarm control unit.

The interior scanning system control unit actuates the warning lamp in the rear fog light switch.

The ultrasonic interior scanning system 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.

5.2 - Initiating self-diagnosis of the interior monitor

Preconditions:

- Fault reader V.A.G 1551 connected =>Page 1.
- Anti-theft alarm not activated.

-> Indicated on display

| inaloatoa on a | | |
|------------------|------|------|
| Rapid data trans | sfer | HELP |
| Select function | XX | |

- Enter "45" for address word "Interior scanning system" and confirm entry with Q key.

-> Indicated on display

Rapid data transfer Tester sends address word 45

- Wait until the next display appears.

Option without head airbag system

-> The display on the fault reader V.A.G 1551 will show the control unit identification code (example).



Option with head airbag system

-> The display on the fault reader V.A.G 1551 will show the control unit identification code (example).

| 4D0951177B I | nterior | monitoring | Dxx |
|--------------|---------|------------|-----|
| Code 00001: | WSC | 12345 | |

Note:

You may print out the control unit identification by pressing the PRINT key on the fault reader V.A.G 1551.

Control unit identification (example)

| - 8L0 951 173 - 4D0 951 177B | Part-No.; assignment => Parts List |
|---------------------------------|--|
| - Interior- - monitoring. | Component designation |
| - Dxx | Control unit data status (software type) |
| - Code 00101 - Code 00001 | Control unit code Coding => Page 71 |
| - WSC 12345 | Workshop Code of V.A.G 1551 with which encoding was last performed |

- Press ⇒key.

| -> Display function selection: | | | |
|--------------------------------|-------------------|------|--|
| Rapid data t Select funct | ransfer ion XX | HELP | |

Note:

The control unit identification can be displayed again by entering function "01" for "Interrogating control unit version" and confirming with the Q key.

Available functions

| Fault reader V.A.G 1551 and vehicle system tester V.A.G 1552 | |
|--|----|
| Address words | |
| 00 Automatic test sequence | 2 |
| 45 Interior monitor | 62 |
| Functions | |
| 01 Interrogating control unit version | 63 |
| 02 Interrogating fault memory | 64 |
| 03 Final control diagnosis | 68 |
| 05 Erase fault memory | 64 |
| 06 End of output | 65 |
| 07 Encoding control unit | 71 |
| 08 Reading measured value block | 72 |
| 10 Adaption | 73 |

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5.3 - 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".

- Starting interior scanning system self-diagnosis => Page 62.

| -> Indicated on display | |
|---|------|
| Rapid data transfer Select function XX | HELP |

- Enter "02" for the function "Interrogate fault memory" and confirm entry with Q key.

| -> | Indicated on display |
|----|--|
| No | fault recognised! |
| - | permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability Press \Rightarrow key . |
| or | |

-> Indicated on display X fault(s) detected

The stored faults are displayed and printed in sequence when the printer is switched on.

Note:

If the printer is switched off, press the \Rightarrow -key to display the next fault.

- Press ⇒after the last fault is displayed and printed.

-> Display function selection):

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

- Rectify printed faults according to fault table => Page 65, then erase fault memory and interrogate the fault memory again as a check.

5.4 - Erase fault memory

Prerequisite:

• Fault memory interrogated => Page 39.

```
-> Indicated on display
Rapid data transfer HELP
Select function XX
```

- Enter "05" for the function "Erase fault memory" and confirm entry with Q key.

-> Indicated on display

| Rapid | data transfer |
|-------|------------------|
| Fault | memory is erased |

- Press ⇒key.

| -> Display function selection): |
|--|
| Rapid data transfer HELP Select function XX |
| Notes: |
| -> Indicated on display |
| Important: Fault memory has not been interrogated |
| |
| or |
| |
| -> |
| Rapid data transfer Fault memory has but been interrogated |
| 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. Procedure has not been correctly followed. |
| - Interrogate fault memory. |

Rectify fault, if necessary, then interrogate fault memory.

End of output

| -> Indicated on display | | | |
|---|------|--|--|
| Rapid data transfer Select function XX | HELP | | |

Enter "06" for "End output" function and confirm entry with Q key.

-> Indicated on display

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

Detach diagnostic connectors.

5.5 - Fault table

Notes:

- The following table lists all the faults, with the corresponding 5 digit code numbers, that can be recognised by the immobilizer control unit -J347- and printed out by the V.A.G 1551. Fault codes appear only on printout.
- The fault memory records all static and sporadic faults. 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.
- 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.

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|------------------------------|--------------------------|--------------|
| 01349 | | |

| Alarm triggered by sensor for anti-theft alarm front 1) | Alarm triggered following attempted forced entry, via the front windows, into the interior of the vehicle or fol- lowing a functional test. False alarm. | - Erase fault memory Performing functional test =>Page 73. |
|---|---|---|
| 01350 Alarm triggered by sensor for ATW rear 1) Protected by copyright. Copying for private or commercial purposes. | - Alarm triggered following attempted forced entry, via the rear windows, into the interior of the vehicle or fol- lowing a functional test. | - Erase fault memory Performing functional test =>Page 73 . |

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1)

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|-------------------------------------|---|--|
| 01377 | | |
| Ultrasonic sensor 1 for ATW -G170 | | |
| Short to positive | Short circuit in wiring or in connections between ultrasonic sensor 1 for ATW -G170 and the ultrasonic sensors control unit - J347 Ultrasonic sensor 1 for ATW -G170 defective | Check and, if necessary, repair wiring and connections according to the current flow diagram. Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder Check and if necessary replace ultrasonic sensor 1 for ATW -G170 General Body Assembly, Interior; Repair group 70; Trim Panels; Removing and installing B-pillar trim Trim Panels; 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 Ultrasonic sensor 1 for ATW -G170 defective | Check and, if necessary, repair wiring and connections according to the current flow diagram. Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder Check and if necessary replace ultrasonic sensor 1 for ATW -G170 |
| Implausible signal | - Faults on activation of ultrasonic interior scanning system. | - Performing functional test =>Page 56 . |

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|---------------------------------------|---|---|
| 01378 | | |
| Ultrasonic sensor right for ATW -G171 | | |
| Short to positive | Short circuit in wiring or in connections between ultrasonic sensor right for ATW -G171 and the ultrasonic sensors control unit - J347 Ultrasonic sensor right for ATW -G171 defective | Check and, if necessary, repair wiring and connections according to the current flow diagram. Current Flow Diagrams, Electri- cal Fault-finding and Fitting Loca- tions binder Check and if necessary replace ul- trasonic sensor right for ATW - G171 General Body Assembly, Interi- or; Repair group 70; Trim Panels; Removing and installing B-pillar trim Trim Panels; Removing and in- stalling 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 - Ultrasonic sensor right for ATW -G171 defective | Check and, if necessary, repair wiring and connections according to the current flow diagram. Current Flow Diagrams, Electri- cal Fault-finding and Fitting Loca- tions binder Check and if necessary replace ul- trasonic sensor right for ATW - G171 General Body Assembly, Interi- or; Repair group 70; Trim Panels; Removing and installing B-pillar trim Trim Panels; Removing and in- stalling B-pillar trim |
|-------------------------------------|--|---|
| Implausible signal | - Faults on activation of ultrasonic interior scanning system. | - Performing functional test =>Page 56. |

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|--|---|---|
| 01379 | | |
| Switch for interior monitor -E183 | Wiring defect between switch for interior monitor -E183 and the ultrasonic sensors control unit -J347 Switch for interior monitor - E183 defective | Check and, if necessary, repair wiring and connections accord- ing to the current flow diagram. Current Flow Diagrams, Electrical Fault-finding and Fit- ting Locations binder |
| Short to earth 1) | | Replace switch for interior monitor -E183 Electrical System; Repair group 96; Servicing switch Serv- icing switch |
| 01380 | | |
| Alarm triggered by sensor for ATW rear left | Alarm triggered by attempted forced entry at rear left window or following a functional test False alarm. | Erase fault memory Performing functional test Page 73. |
| 01381 | | |
| Alarm triggered by sensor for ATW rear right | Alarm triggered by attempted forced entry at rear right win- dow or following a functional test False alarm. | Erase fault memory Performing functional test Page 73. |

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

| Output on printer V.A.G 1551 | Possible causes of fault | Fault remedy |
|--|--|---|
| 01382 Alarm triggered by sensor for ATW front left | - Alarm triggered by attempted forced entry at front left win- dow or following a functional test - False alarm. | - Erase fault memory Performing functional test =>Page <mark>73</mark> . |
| 01383 Prote Alarm triggered by sensor for ATW front right | cted by copyright. Copying for private or comm "Alarm triggered by attempted forced entry at front right win- dow or following a functional test - False alarm. | ercial purposes, in part or in whole, is not CETASE Fault memory liability Scoumer Copyright & August Performing functional test =>Page 73. |
| 65535 | | |

| Control unit defective | - Control unit for ultrasonic sensors -J347 defective | - Replace control unit for ultra- sonic sensors -J347 |
|------------------------|---|--|
|------------------------|---|--|

5.6 - Final control diagnosis (vehicles without head airbag)

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 components in the stated sequence:

| Actuation sequence | |
|--|---|
| 1 Warning lamp in rear fog light switch | |
| 2 Cause alarm to trigger (no function) | |
| 3 Power supply lead to ultrasonic sensorsht. Copying for pri | vate or commercial purposes, in part or in whole, is no |
| 3 Clock signal lead to ultrasonic sensor suthorised by AUDI | AG. AUDI AG does not guarantee or accept any liabilit |

Note:

An "ATW alarm" cannot be triggered through this final control diagnosis. To trigger an "anti-theft alarm", use the central locking control unit => Page 56 to carry out the final control diagnosis.

- Starting interior scanning system self-diagnosis => Page 62.

| -> Indicated on display | |
|---|------|
| Rapid data transfer Select function XX | HELP |

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



Warning lamp in rear fog light switch is actuated

- Press ⇒key.

-> Indicated on display

| Final | control diagnosis |
|-------|-------------------|
| Cause | alarm to trigger |

The control unit transmits an alarm signal to anti-theft alarm control unit (no function)

- Press ⇒key.

| -> Indicated on display | |
|-------------------------|-------------------|
| Final | control diagnosis |
| Power | supply lead |

Control units transmits constant voltage of 8 V; checking wiring =>Page 69.

- Press ⇒key.
- -> Indicated on display
| Final | control diagnosis | |
|-------|-------------------|--|
| Clock | signal lead | |

Control units transmits constant voltage of 5 V; checking wiring =>Page 70.

- Press ⇒key.

-> Indicated on display

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

- Press ⇒key.

| -> Display function (selection): | | | |
|----------------------------------|-------------------|------|--|
| Rapid data t Select funct | ransfer ion XX | HELP | |

Checking power supply lead





V.A.G 1526 A

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Test sequence

- Remove the two ultrasonic sensors => Page 59.
- Detach connectors.
- Perform final control diagnosis => Page 68 and select control element test "Power supply lead".

-> Indicated on display:

| Final | control diagnosis |
|-------|-------------------|
| Power | supply lead |

- Connect multimeter for voltage measurement between contacts 2 (positive) and 3 (earth).
 Specified value: 8 V
- Terminate final control diagnosis.
- Re-install ultrasonic sensors.

Checking clock signal lead

Special tools, testers and auxiliary equipment required





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Test sequence

- Remove the two ultrasonic sensors => Page 59.
- Detach connectors.
- Perform final control diagnosis => Page 68 and select control element test "clock signal lead".

-> Indicated on display:

| Final | control | diagnosis |
|-------|----------|-----------|
| Clock | signal 1 | lead |

- Connect multimeter for voltage measurement between contacts 1 (positive) and 3 (earth).
 Specified value: 5 V
- Terminate final control diagnosis, interrogate fault memory => Page 64.
- Re-install ultrasonic sensors.

5.7 - Final control diagnosis (vehicles with head airbag)

The final control diagnosis activates the following elements in sequence:

Triggering of anti-theft alarm (no function)

Note:

An "anti-theft alarm" cannot be triggered through this final control diagnosis. To trigger a "anti-theft alarm", use the central locking control unit => Page 56 to carry out the final control diagnosis.

5.8 - Encoding the control unit (vehicles without head airbag)

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.

- Starting interior scanning system self-diagnosis => Page 62.

| -> Indicated on display | | | |
|------------------------------|--------------------|------|--|
| Rapid data t Select funct | ransfer tion XX | HELP | |

- Enter "07" for the function "Encode control unit" and confirm entry with Q key.

| -> Ir | ndio | cat | ed on display | |
|--------------|----------|------------|--|--|
| Code Ente | c r (| ont cod | rol unit Q e number XXXXX (0-32000) | |
| - E | Ent | er | 5-digit control unit code in with table. | |
| | Cod | de | Meaning | |
| 00 | | | Filling characters, no assignment | |
| | 1 | | Audi A8 | |
| | | 0 | Static activation mode | |
| | | | 1 Saloon | |
| -> Ir | ndio | cat | ed on display | |

 Code control unit
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- Confirm entry with Q key.

| -> The display on the fault reader | V.A.G 155 | 1 will show the control | unit identification | code (example). |
|---|-----------|-------------------------|---------------------|-----------------|
| 8L0951173 Interior monitor Code 00101: WSC 12345 | D00 | | | |

- Press ⇒key.

| -> Display function (selection): | | | |
|---|------|--|--|
| Rapid data transfer Select function XX | HELP | | |

5.9 - Encoding the control unit (vehicles with head airbag)

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.

- Starting interior scanning system self-diagnosis => Page 62.
- -> Indicated on display

| Rapid o | lata | trans | sfer | HELP |
|---------|------|-------|------|------|
| Select | func | tion | XX | |

- Enter "07" for the function "Encode control unit" and confirm entry with Q key.

| -> | Indicated | on | dis | pla | y |
|----|-----------|----|-----|-----|---|
| | | | | | |

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

- Enter 5-digit control unit code in with table.

| Code | | | Meaning | | |
|------|---------------------|--|---------|-----------------------------------|--|
| 00 | | | | Filling characters, no assignment | |
| | 0 | | | Audi A8 | |
| | 0 Static activation | | | Static activation mode | |
| | , | | 1 | Saloon | |
| | | | | | |

-> Indicated on display

| Code control unit | Q | | | |
|-------------------|-------|-----|---|--------|
| Enter code number | 00101 | (0 | - | 32000) |

- Confirm entry with Q key.

-> The display on the fault reader V.A.G 1551 will show the control unit identification code (example).

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|------------|----------|-------------------------------------|---|
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- Press ⇒key.

Rapid data transfer HELP Select function XX

5.10 - Reading measured value block

- Starting interior scanning system self-diagnosis => Page 62.

-> Indicated on display

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

- Enter "08" to select the function "Reading measured value block" and confirm entry with Q key.

-> Indicated on display



- Enter "001" for "display group number 001" and confirm entry with Q key.

-> Display for display group 001:

| Read | meas | ured | value | block | 1 | |
|------|------|------|-------|-------|---|--|
| 1 | 2 | 3 | 4 | | | |

- If specified values are attained in all display zones, press ⇒key.
- -> Display function (selection):

Rapid data transfer HELP Select function XX

5.11 - Measured value block overview

Display group 001 (Option without head airbag system)

| Read measured valu | ue block 1 | | ⇒ | ✓ Display (example) | |
|--------------------|---|---------------|---------------|---|--|
| 0 1 0 1 | 100 % | - | - | | |
| | | | | Display zone not used. | |
| | l L | | Display zon | e not used. | |
| | S | Sensitivity o | f sensors: 50 | 0 100 % =>"Adaption", Page 73 | |
| | Sensitivity of sensors: 50 100 % => Adaption", Page 73 Switch settings Interior scanning switch: 1 = pressed, 0 = not pressed Driver's door contact switch: 1 = Driver's door open; 0 = driver's door closed Anti-theft alarm 1 = activated; 0 = not activated Shattered glass sensors: Display is always 1 1) | | | | |

Contact for shattered glass sensors is connected to earth on Audi A8, as no shattered glass sensors are 1) fitted.

Display group 001 (Option with head airbag system)

| Read measured value | | ⇒ | I Jisplay (example) | | |
|---------------------|---|---|------------------------|------------------------|--|
| 0 0 0 1 | 100 % | - | - | | |
| | | | | Display zone not used. | |
| | | | Display zone not used. | | |
| | Sensitivity of sensors: 50 100 % =>"Adaption", Page 73 | | | | |
| X X X X 3 | Switch settings • 1. Position: not used • 2. Position: not used • 3. Position: not used • 4. Position: Communication wire status (1 = wire OK, 0 = wire not OK) | | | | |
| | | | | | |

5.12 - 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. ٠
- Starting interior scanning system self-diagnosis => Page 62.

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- Enter "10" to select the "Adaption" function and confirm with the Q key.

| -> | Indicated | on | dis | play | y |
|----|-----------|----|-----|------|---|
| | | | | | |

| Adapt | cior | ı Q | |
|-------|------|---------|-----|
| Feed | in | channel | No. |

- Enter "01" to select "adaptation channel 01" and confirm entry with Q key.

-> Indicated on display: The sensitivity level of the sensors is displayed: e.g. 100 %

Channel 1 Adaption 100 Sensitivity in %

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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 | Q | | | | | |
| Enter adaption value XXXXX | | | | | | |

- Enter desired 5-digit adaption value e.g. 75 % = 00075

| -> Indicated on display | | | | | | |
|----------------------------|---|--|--|--|--|--|
| Channel 1 Adaption 100 | Q | | | | | |
| Enter adaption value 00075 | | | | | | |

- Confirm entry with Q key.
- -> Indicated on display

| Channel 1 Adaption 75 Q Sensitivity in % |
|---|
|---|

- Confirm entry with Q key.
- -> Indicated on display

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

- Confirm entry with Q key.

-> Indicated on display

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

- Terminate passenger's airbag activation in "Adaption channel 01" by pressing \Rightarrow .

-> Display function (selection):

| Rapid data | transfe | C HE | LP |
|------------|----------|------|----|
| Select fun | ction XX | | |