

Workshop Manual FABIA 2000 ≻

Body Work Edition 08.99



The Workshop Manual is intended only for use within the Organisation Škoda. It is not permitted to pass it on to other persons.

List of Supplements to Workshop Manual FABIA 2000 ►

Body Work Edition 08.99

Supple- ment	Edition	Subject	Article Number
	08.99	Basic Edition	S00.5319.00.20
1	11.99	Supplement to Basic Edition	S00.5319.01.20
2	12.99	Self-diagnosis for convenience system	S00.5319.02.20
3	03.00	Final diagnosis for airbag	S00.5319.03.20
4	06.00	Supplement to Rep Gr. 50 - 70	S00.5319.04.20
5	07.00	Supplement to Rep Gr. 01 - 74	S00.5319.05.20
6	11.00	Supplement to Rep Gr. 01 - 70	S00.5319.06.20
7	04.01	Supplement to Rep Gr. 01 - 74	S00.5319.07.20
8	08.01	Supplement to Rep Gr. 01 and 64	S00.5319.08.20
9	02.02	Fabia Praktik	S00.5319.09.20
10	03.02	Supplement to Rep Gr. 70 and 72	S00.5319.10.20
11	07.02	Supplement to Rep Gr. 01 - 70	S00.5319.11.20
12	05.03	Supplement to Rep Gr. 70	S00.5319.12.20
13	10.03	Supplement to Rep Gr. 01 - 70	S00.5319.13.20
14	04.04	Supplement to Rep Gr. 01, 57, 58 and 69	S00.5319.14.20
15	01.05	Self-diagnosis for convenience system with LIN databus cable and Supplement to Rep Gr. 55, 57, 58, 63, 68, 69 and 70	S00.5319.15.20

Table of Contents

00 -	Technical Data			
	Technical Data	00-1	page	1
	- Vehicle identification data	00-1	page	1
01 –	Self-diagnosis			
	Self-diagnosis for convenience system	01-1	page	1
	- Notes concerning self-diagnosis for convenience system	01-1	page	1
	- Types and description of convenience system	01-1	page	1
	- Overview of the selectable functions of the diagnosis for the convenience system	01-1	page	3
	- Connect vehicle system tester -V.A.G 1552-	01-1	page	4
	- Interrogating control unit version	01-1	page	5
	- Interrogating fault memory	01-1	page	6
	- Actuator diagnosis	01-1	page	6
	- Erasing fault memory	01-1	page	7
	- Ending output	01-1	page	8
	- Coding control unit	01-1	page	8
	Self-diagnosis for convenience system with CAN databus cable	01-2	page	1
	 Overview of the selectable functions of the self diagnosis for convenience system with CAN 		1-5-	
	databus cable	01-2	page	1
	- Overview of the control units for convenience system with CAN databus cable	01-2	page	1
	- Coding control unit with CAN databus cable	01-2	page	3
	- Fault table Convenience system with CAN databus cable	01-2	page	4
	- Reading measured value block for convenience system with CAN databus cable	01-2	page	15
	- Test table for convenience system with CAN databus cable	01-2	page	16
	Self-diagnosis for convenience system with LIN databus cable	01-3	page	1
	- Overview of the selectable functions of the self-diagnosis for convenience system with LIN databus cable	01-3	nade	1
	- Overview of the control units for convenience system with LIN databus cable	01-3	page	1
	- Coding control unit with LIN databus coding	01-3	page	2
	- Fault table of control unit for convenience system with LIN databus cable	01-3	page	2
	- Fault table of LIN databus/control units for window control in the individual doors	01-3	page	7
	Reading measured value block with LIN databus cable	01-3	page	10
	- Test table with LIN databus cable	01-3	page	10
	Adapting the convenience system (for all convenience system types)	01.4	page	. 0
	- Adjustment	01-4	page	1
	Calf diagnasis for Airbag System I	01-4	page	1
	Self-diagnosis for Airbag System I	01-5	page	1
	- Function of the airbag system	01-5	page	1
	- Connect vehicle system tester - V.A.G 1552- and select address word "Airbag"	01-5	page	د ۸
	- Overview of selectable functions	01-5	page	4
	- Interrogating control unit version	01-5	page	5
	- Interrogating raut memory	01-5	page	6
	- Actuator uragriosis		page	ט ד
	- Erabing lauit memory		page	/ 0
	- Enaling output	01-5 01 E	page	ŏ о
		01-5	page	0 1
	Self-diagnosis for airbag system II	01-0	paye	1

	- Fault table	01-6	page	2
	- Reading measured value block	01-6	page	6
	- Test table	01-6	page	7
	- Parts inspection with test box -VAS 5056	01-6	page	13
	Deactivating and activating airbag units (adaptation)	01-7	page	1
	- Deactivating and activating passenger-side airbag units (adaptation)	01-7	page	1
50 -	- Front body			
	Front body	50-1	page	1
	- Removing and installing lock carrier with component parts	50-1	page	1
	Front wing	50-2	page	1
	- Removing and installing the front wing	50-2	page	1
55 -	- Bonnet, tailgate			
	Front bonnet	55-1	page	1
	- Summary of front bonnet components	55-1	page	1
	- Summary of radiator grill components	55-1	page	2
	- Disassembling and assembling radiator grill	55-1	page	2
	- Adjusting front bonnet	55-1	page	3
	Tailgate	55-2	page	1
	- Removing the pressurized gas strut	55-2	page	1
	- Degassing the pressurized gas strut	55-2	page	1
	- Summary of components of tailgate lock	55-2	page	2
	- Summary of components of remote release	55-2	page	3
	- Removing and installing luggage compartment lid hinges (Sedan)	55-2	page	3
	- Adjusting luggage compartment lid	55-2	page	4
	Fuel-tank lid unit	55-3	page	1
	- Summary of components of the fuel-tank lid unit	55-3	page	1
57 -	 Front doors/door internal parts/central locking 			
	Front door	57-1	page	1
	- Summary of components	57-1	page	1
	- Removing and installing the door	57-1	page	2
	- Door adjustment	57-1	page	2
	- Removing and installing assembly carrier	57-1	page	2
	- Removing and installing door window	57-1	page	4
	- Removing and installing window lifter motor	57-1	page	4
	- Summary of components of door handle and door lock	57-1	page	5
	- Removing and installing the lock cylinder housing	57-1	page	5
	- Removing and installing the door handle	57-1	page	6
	- Removing and installing the door lock	57-1	page	7
	- Removing and installing the locking button for locking rod	57-1	page	9
	- Summary of components of front door seals	57-1	page	10
	- Central locking system	57-1	page	10
58 -	- Rear doors/door internal parts			
	Rear door	58-1	page	1
	- Summary of components	58-1	page	1
	- Removing and installing the door	58-1	page	2

	- Door adjustment	58-1	page	2
	- Summary of components of door handle and door lock	58-1	page	3
	- Removing and installing the door handle	58-1	page	3
	- Removing and installing the door lock	58-1	page	5
	- Removing and installing assembly carrier	58-1	page	6
	- Removing and installing door window	58-1	page	7
	- Summary of components of door seals	58-1	page	8
	Rear door (Praktik)	58-2	page	1
	- Rear door	58-2	page	1
	- Removing and installing the door lock	58-2	page	2
60 –	Sliding/tilting roof			
	Sliding/tilting roof with glass panel	60-1	page	1
	- Summary of components of sliding/tilting roof with glass panel	60-1	page	1
	- Removing and installing the glass roof	60-1	page	1
	- Removing and installing sun screen	60-1	page	6
	- Removing and installing E-drive	60-1	page	6
	- Setting E-drive (0 position)	60-1	page	7
	- Adapting drive	60-1	page	8
	- Inspecting parellel run	60-1	page	8
	- Setting parallel run	60-1	page	8
	- Removing and installing assembly unit	60-1	page	9
	- Cleaning the water drain hoses	60-1	page	9
63 –	Bumpers			
	Front bumper	63-1	page	1
	- Summary of components on the front bumper	63-1	page	1
	- Summary of components on the front bumper (RS)	63-1	page	2
	- Removing and installing the bumper bracket	63-1	page	3
	Rear bumper	63-2	page	1
	- Summary of components of rear bumper	63-2	page	1
	- Removing and installing the bumper bracket	63-2	page	2
	- Removing and installing rear apron (RS)	63-2	page	2
64 –	Glazing		1 0	
	Glued windows	64-1	page	1
	- Removing and installing glued windows	64-1	page	1
	- Removing and installing side window (Combi)	64-1	page	7
	- Prepare new windscreen for fitting	64-1	page	8
	- Prepare flange for fitting	64-1	page	9
	- Glueing	64-1	page	10
	- Waiting time	64-1	page	11
	- Eliminating paint damage	64-1	page	11
	- Remove glue and clean	64-1	page	11
66 –	Exterior equipment	•	1 230	•
		66 1	0000	4
	- Demoving and installing the front wheelbourse liner	00-1 66 1	page	ן א
	- Removing and installing the rear wheelbouse liner	00-1 66 1	page	1
	- ולפוווטאווא מווט וווזנמווווא נוופ ופמו אוופפוווטטצפ ווופו	00-1	page	I

	Rear-view mirror	66-2	page	1
	- Summary of components of rear-view mirror	66-2	page	1
	Water box cover	66-3	page	1
	- Removing and installing water box cover	66-3	page	1
	Roof drip moulding	66-4	page	1
	- Removing and installing roof drip moulding	66-4	page	1
	Protective strips	66-5	page	1
	- Removing and installing protective side strips	66-5	page	1
	Trailer coupling	66-6	page	1
	- Summary of components trailer coupling	66-6	page	1
	Roof railing (Combi)	66-7	page	1
	- Removing and installing the roof rack	66-7	page	1
	Rear spoiler	66-8	page	1
	- Summary of the components - for the complete rear spoiler (Combi)	66-8	page	1
	- Removing and installing rear spoiler completely (Combi)	66-8	page	1
	- Summary of the components - for the complete rear spoiler (RS)	66-8	page	1
	- Removing and installing rear spoiler completely (RS)	66-8	page	2
	Decorative strips (Combi)	66-9	page	1
	- Removing and installing decorative strips	66-9	page	1
68 –	Interior equipment			
	Interior rear-view mirror	68-1	page	1
	- Removing interior rear-view mirror	68-1	page	1
	- Installing rear-view mirror	68-1	page	1
	- Repair method with glass-metal adhesive	68-1	page	1
	Covers, storage areas and trim panels	68-2	page	1
	- Summary of components of centre console	68-2	page	1
	- Removing and installing the front can holder	68-2	page	2
	- Removing and installing the sun visor	68-2	page	2
	- Removing and installing the centre sun visor	68-2	page	2
	- Removing and installing the storage area (Praktik)	68-2	page	2
	- Removing and installing the moulded headliner (Praktik)	68-2	page	3
	Recessed handle	68-3	page	1
	- Removing and installing recessed handle	68-3	page	1
	Partition panel and protective grating (Praktik)	68-4	page	1
	- Summary of components for the partition panel	68-4	page	1
	- Removing and installing the protective grating for the tailgate	68-4	page	1
	Floor partition (Praktik)	68-5	page	1
	- Removing and installing the front floor partition	68-5	page	1
	- Removing and installing the rear floor partition	68-5	page	1
	Front entrance plates (RS)	68-6	page	1
	- Removing and installing the front entrance plates	68-6	page	1
69 –	Occupant protection			
	Seat belts	69-1	page	1
	- Safety instructions for work on seat belt tensioners	69-1	page	1
	- Summary of components of front seat belts	69-1	page	2

	- Removing and installing the rear seat belts	69-1	page	3
	- Summary of components - middle three-point seat belt at the rear	69-1	page	4
	Inspecting seat belts	69-2	page	1
	- Checks	69-2	page	1
	Airbag	69-3	page	1
	- Airbag system	69-3	page	1
	- Safety precautions when working on the airbag system	69-3	page	1
	- Replacing parts of the airbag system	69-3	page	3
	- Removing and installing driver airbag unit	69-3	page	4
	- Summary of components of four-armed steering wheel	69-3	page	5
	- Summary of components of three-armed steering wheel	69-3	page	6
	- Removing and installing restoring ring with slip ring	69-3	page	6
	- Removing and installing passenger airbag unit	69-3	page	7
	- Removing and installing a side airbag crash sensor	69-3	page	8
	- Removing and installing side airbag units	69-3	page	8
	- Removing and installing airbag control unit -J234	69-3	page	10
	- Removing and installing the front passenger airbag switch	69-3	page	10
	Removal of pyrotechnic parts before scrapping the vehicle	69-4	page	1
	- Disposal of the airbag units before scrapping the vehicle	69-4	page	1
70 –	Trim panel/insulation			
	Dash nanel	70-1	nade	1
	- Removing and installing the dash panel	70-1	nage	1
	- Removing and installing the central tube/dash panel	70-1	nade	4
	- Removing and installing the convenience system central control unit	70-1	nade	- 5
	Door trim panels	70-7	page	1
	- Summary of components of front door trim panels	70-2	page	1
	- Removing and installing the front door trim panel	70-2	page	1
	- Summary of components of rear door trim panels	70-2	page	י ז
	- Removing and installing the rear door trim panel	70-2	page	⊿
	- Removing and installing the rear door trim panel (Praktik)	70-2	page	-
	Diller and side trim panels	70-2	page	-
	Pinar and side trim panels	70-3	page	1
	- Removing and installing top till panel of pillar A	70-3	page	1
	- Removing and installing bottom till parter of pillar A	10-3	page	ן ר
	- Summary or components or time panels or pillar B	70-3	page	2
	- Removing and installing bottom trim panel of pillar B	70-3	page	2
	- Removing and installing top till panel of pillar C	70-3	page	ა ა
	- Removing and installing bottom trim panel of pillar C (Eshia Cambi)	70-3	page	J ⊿
	- Removing and installing top trim panel of pillar C (Fabla Combi)	70-3	page	4
	- Removing and installing top third pare plate (notebback)	10-3	page	ວ ເ
	- Nemoving and installing the base plate (HOLCHDACK)	10-3	page	с С
	- Summary or components or entrance plate	10-3	page	0 7
	- Removing and installing the tangate/luggage compartment cover (Praktik)	10-3	page	1
	Door trim panels in the luggage compartment	70-4	page	1
	- Summary of components of luggage compartment cover	/0-4	page	1
	- Summary of components of side trim panel of luggage compartment	70-4	page	2
	- Removing and installing bases for luggage compartment floor	/0-4	page	3

	- Summary of components of rear cargo opening cover	70-4	page	4
	- Summary of components of trim panels of tailgate	70-4	page	5
	- Removing and installing holder for luggage compartment cover (estate car)	70-4	page	6
	- Removing and installing the side luggage compartment trim panel (estate car)	70-4	page	6
	- Removing and installing the bonnet at the rear (Praktik)	70-4	page	7
	- Removing and installing the bonnet at the rear (Praktik)	70-4	page	7
	- Removing and installing the finishing strip	70-4	page	8
	Moulded headliner	70-5	page	1
	- Removing and installing moulded headliner	70-5	page	1
	- Removing and installing the moulded headliner (Praktik)	70-5	page	2
	- Summary of components of the moulded headliner noise insulation panels (Fabia Combi)	70-5	page	4
72 -	· Seat racks			
	Front seats	72-1	page	1
	- Removing and installing the front seats	72-1	page	1
	- Removing and installing the grip for the seat height adjuster	72-1	page	2
	- Removing and installing the backrest rack for the seat rack	72-1	page	2
	- Removing and installing seat height adjusting elements	72-1	page	4
	Rear seats	72-2	page	1
	- Removing and installing seat bench and backrest	72-2	page	1
	- Removing and installing the rear armrests	72-2	page	2
74 -	· Seat Upholstery, Covers			
	Front seat upholstery and covers	74-1	page	1
	- Assembly overview of covers and upholstery for front seats	74-1	page	1
	- Assembly overview of covers and upholstery for backrests	74-1	page	2
	Rear seat upholstery and covers	74-2	page	1
	- Assembly overview of covers and upholstery for rear seats	74-2	page	1
	- Assembly overview of covers and upholstery for rear backrest	74-2	page	2

Technical Data 00

00-1 **Technical Data**

Vehicle identification data

Vehicle identification number

The vehicle identification number (chassis number) is attached to the right suspension dome.



8

7

9

S02-0328

2

1

3

4

5

TMB MB4 67 8Y3 123456

6

The vehicle identification number (chassis number) can also be found bottom left of the front window corner.

- 1 Manufacturer's world code
- 2 Model and version
- 3 Engine type
- 4 Airbag system
- 5 Vehicle type
- 6 Internal code
- 7 Model year
- 8 Manufacturing plant
- 9 Body number



Note

Detailed information on the meaning of individual signs \Rightarrow Inspection and Maintenance, Chap. 02-1.

Type plate

The type plate -arrow- is attached to the left wheel house.



Vehicle data sticker

The vehicle data sticker is located at the rear left on the floor of the luggage compartment.

FAHRZGIDENT-NR. VEHICLE-IDENT-NO. TYP/TYPE	SORT.NR.			
TYP/TYPE	FAHRZGIDENT-N VEHICLE-IDENT-N	а. c.		
MOTORKB./GETR.KB ENG.CODE/TRANS.CODE	TYP/TYPE			
MOTORKB/GETR.KB ENG.CODE/TRANS.CODE				
MOTORKB./GETR.KB ENG.CODE/TRANS.CODE LACKNR./INNENAUSST. PAINT NO./INTERIOR M-AUSST./ OPTIONS				ī
M-AUSST./ OPTIONS	MOTORKB./GETR. ENG.CODE/TRANS LACKNR./INNENAL	(B .CODE		
OFTIONS	M-AUSST./		 	
	OPTIONS			

01 – Self-diagnosis

01-1 Self-diagnosis for convenience system

Notes concerning self-diagnosis for convenience system

The central control unit for convenience system -J393- is located above the accelerator pedal in the dash panel. It is clipped into the bracket on the heating housing. The diagnostic connector is located behind the storage tray under the light switch.

Removing and installing the control unit for convenience system \Rightarrow Chap. 70-1.

Initiate self-diagnosis at the start of fault finding and interrogate the fault memory with diagnostic device -V.A.G 1552- or -V.A.G 1551- or -VAS 5052-.

Note

- The description which follows relates to the vehicle system tester -V.A.G 1552- using program card -6.0-(and higher version).
- The use of fault read-out scan tool -V.A.G 1551- with program card -9.0- (and later version) is almost identical except for specific deviations (e.g. other display, possibility of using a printer etc.).
- To end the output or to switch to another address select function 06 "End output".

When replacing the central control unit for the convenience system or the alarm system with an independent power supply disconnect the power supply for at least 30 sec. in order to allow the alarm to be adapted. If necessary, disconnect the communication cable.

The convenience system can be adapted to the customer wish \Rightarrow Chapter 01-4.

Types and description of convenience system

Two different systems of databus cables are used in the convenience system:

- for vehicles manufactured until 07.2004 the CAN databus cable
- for vehicles manufactured as of 08.2004 the LIN databus cable

The difference is the operation of the window control, the fault tables, the measured value blocks and the coding of the control unit. In case of repairs or self-diagnosis of the convenience system first the system of the communication cable must be defined. This is detected by means of the connection of the diagnostic device and by entry of the address word 46 "Central module convenience system" \Rightarrow 01-1 page 4.

Convenience system with CAN databus cable

The convenience system comprises the electric equipment in the doors:

- electrical central locking system with SAFE function
- power-window lifter with jamming protection
- electrically adjustable and heated exterior mirror

It also comprises other systems in the vehicle:

- Cut-off delay for interior lamp
- Monitoring and disconnection of all interior and luggage compartment lights as a battery discharge protection
- Sliding roof closing function via outside closing command
- Radio control for anti-theft alarm system and central locking
- the optical Safe function indicator (is a LED mounted in the door equipment of the driver's door)

The system comprises the control unit for convenience system and control units in the individual doors whose communication between each other is performed via the CAN databus cable. The communication between the central control unit for convenience system and other electrical systems in the vehicle is performed via the CAN databus cable.

The control unit for convenience system detects faults in the convenience system (including faults at control units in the individual doors) and stores them in a permanent memory.

The displayed fault messages refer to a fault table including indications on the possible causes as well as targeted repairs.

Faults due to a temporary line interruption or loose contact are also stored. These faults are displayed as sporadic faults "SP".

Convenience system with LIN databus cable

The convenience system comprises the electric equipment in the doors:

- electrical central locking system with SAFE function
- power-window lifter with jamming protection

It also comprises other systems in the vehicle:

- Sliding roof closing function via outside closing command
- Radio control for anti-theft alarm system and central locking
- the optical Safe function indicator (is a LED mounted in the door equipment of the driver's door)

The system comprises the control unit for convenience system. Its communication with other electrical systems in the vehicle is performed via the CAN databus cable.

Control units are also located in the individual doors, which however only operate the window lifters. Their communication is performed via the LIN databus cable.

The LIN databus cable is not self-diagnostic with any diagnostic device. This cable consists of an independent electrical circuit, which has no connection to other electrical systems in the vehicle.

The control unit for convenience system detects faults in the convenience system (including faults in the individual doors relating to the lock) and stores them in a permanent memory. The faults relating to the window control can be stored in the fault memory of the convenience system.

If the window control is restricted or fully non-operational, proceed according to "functionality of individual windows" \Rightarrow Chap. 01-3, Fault table LIN databus/control units for window control in the individual doors. This table is used for the diagnosis of faults from the LIN databus.

Overview of the selectable functions of the diagnosis for the convenience system

Оре	ration	Page
01	Interrogating control unit version	\Rightarrow 01-1 page 5
02	Interrogating fault memory	\Rightarrow 01-1 page 6
03	Actuator diagnosis	\Rightarrow 01-1 page 6
05	Erasing fault memory	\Rightarrow 01-1 page 7
06	Ending output	\Rightarrow 01-1 page 8
07	Coding control unit	\Rightarrow 01-1 page 8
08	Reading measured val- ue block	⇒ Chap. 01-2, ⇒ Chap. 01-3
10	Adjustment	\Rightarrow Chapter 01-4

Connect vehicle system tester -V.A.G 1552-

Special tools, test and measuring equipment and auxiliary items required

- Vehicle system tester -V.A.G 1552-
- Diagnostic cable -V.A.G 1551/3, 3A, 3B, 3C-

Test conditions

- All fuses must be OK in compliance with the current flow diagram.
- Battery voltage at least 9 V.

Procedure

- Open the storage tray -1- under the light switch -arrow-.
- Switch off ignition and connect vehicle system tester
 -V.A.G 1552-.
- Switch on ignition.

Readout on display:

Select address word 46 "Central module convenience system".

Readout on display:

- Confirm the entry with key \bigcirc .

Readout on display:

i Note

- One of the following four displays will appear in the event of a communication set-up failure between vehicle system tester -V.A.G 1552- and the control unit.
- Press (HELP) key to display the possible fault causes.

The ignition must be on!

Malfunctions occurred at the start of or during the program (external sources of interference).

- Check connection of the vehicle system tester -V.A.G 1552-.
- After removing the possible fault causes re-enter address word 46 "Central module convenience system" and confirm entry with Q.

Read-out on display after entering address word "46":

The display shows the control unit identification number, e.g.:

- Press \rightarrow key.



Vehicle system test 46 Central module convenience system

Vehicle system test Tester sends address word 46



Coding 00259

WSCXXXXX

0



0

 \rightarrow



- Press \rightarrow key.

Readout on display:

- Ending output \Rightarrow 01-1 page 8.

Interrogating fault memory

- Connecting vehicle system tester -V.A.G 1552- and selecting the address word for the convenience system \Rightarrow 01-1 page 4.

Readout on display:

Select function 02.

Readout on display:

- Confirm the entry with key Q.

The number of faults stored appears on the display.

Press key \rightarrow to display the stored faults consecutively.

Cause and elimination:

Convenience system with CAN databus cable \Rightarrow Chap. 01-2.

Convenience system with LIN databus cable \Rightarrow Chap. 01-3.



- If a fault is detected:
- 1. Remove fault.
- 2. Erase fault memory (Function 05).
- 3. Perform a functional test of the convenience system.
- 4. Interrogate fault memory (Function 02) again.

If "No fault detected" the program returns to its initial position after key (\rightarrow) is pressed.

Readout on display:

If anything else appears on the display: \Rightarrow Operating instructions of the vehicle system tester.

- Ending output \Rightarrow 01-1 page 8.
- Switch off ignition and switch off vehicle system tester.

Actuator diagnosis

 Connecting vehicle system tester -V.A.G 1552- and selecting the address word for the convenience system ⇒ 01-1 page 4.

Readout on display:



Vehicle system test HELP Select function XX

Vehicle system test 02 - Interrogating fault memory

X faults detected

No fault detected! \rightarrow

Vehicle system test Select function XX HELP



- Ending output \Rightarrow 01-1 page 8.

Erasing fault memory

Conditions:

- Fault memory was interrogated.
- Fault was eliminated.
- Functional test was performed.
- Connecting vehicle system tester -V.A.G 1552- and selecting the address word for the convenience system \Rightarrow 01-1 page 4.

Readout on display:

- Enter function 05.

Vehicle system test Select function XX HELP

01

¹⁾ Not fitted on FABIA.

²⁾ Only on vehicles equipped with sliding roof.

³⁾ Only on vehicles with remote control or alarm function.

Readout on display:

- Press \rightarrow key.

Readout on display:

Confirm the entry with key Q.

Note

- If the following message is displayed the test sequence is incorrect:
- Carefully follow the test sequence step by step: First interrogate the fault memory and then erase.

Ending output

Readout on display:

- Enter function 06.

Readout on display:

- Confirm the entry with key \bigcirc .
- Switch off ignition.
- Disconnect vehicle system tester -V.A.G 1552- from the connector.

Coding control unit

 Connecting vehicle system tester -V.A.G 1552- and selecting the address word for the convenience system ⇒ 01-1 page 4.

Readout on display:

Enter function 07.

Readout on display:

Confirm the entry with key Q.

Readout on display:

- Enter code number following table:

Table of codes for vehicles with CAN databus cable

Vehicle equipment	Code number indi- vidual door open- ing	Code number over- all door opening
Central locking without power-window lifter	00018	00019
Central locking with 2 power-window lifters	00066	00067
Central locking with 4 power-window lifters	00258	00259



Caution! Fault memory was not interrogated

- Vehicle system test Select function XX
- Vehicle system test Q 06 End output

 Vehicle system test HELP Select function XX
 Vehicle system test Q 07 Coding control unit
 Coding control unit Enter code number XXXXX (0-32767)

Table of codes for vehicles with LIN databus cable

Vehicle equipment	Code number indi- vidual door open- ing	Code number over- all door opening
Central locking without power-window lifter	00018	00019

- Confirm the entry with key Q.

The control unit identification number, the control unit code number and the workshop code are displayed.

If the control unit rejects an entered code number the fol- lowing message will be displayed:

In this case the control unit was not coded with the data required for the vehicle. Check whether the right control unit was fitted on the vehicle (compare part number and character index), or whether possibly a wrong code was entered.

- Repeat coding.

If the control unit cannot be coded (correct control unit, correct code number) the control unit is defective.

End funtion:

- Press \rightarrow key.

Readout on display:

- Enter function 06.
- Readout on display:
- Confirm the entry with key Q.

6Q09959433 OM convenience unit. 0002 Coding 00259 WSC xxxxx

Fault Coding XXXXX not accepted

Vehicle system test HELP
 Select function XX
 Vehicle system test Q
 06 End output

 \rightarrow

01-2 Self-diagnosis for convenience system with CAN databus cable

Overview of the selectable functions of the self diagnosis for convenience system with CAN databus cable

Оре	ration	Page
01	Interrogating control unit version	\Rightarrow Chap. 01-1,
02	Interrogating fault memory	\Rightarrow Chapter 01-1
03	Actuator diagnosis	\Rightarrow Chapter 01-1
05	Erasing fault memory	\Rightarrow Chapter 01-1
06	Ending output	\Rightarrow Chapter 01-1
07	Coding control unit	\Rightarrow Chap. 01-1 \Rightarrow 01-2 page 3
08	Reading measured val- ue block	\Rightarrow 01-2 page 15
10	Adjustment	\Rightarrow Chapter 01-4

Overview of the control units for convenience system with CAN databus cable

Control unit part No. ¹⁾		Program	Control unit function
Central control unit for conven- ience system	Door control unit	number	
6Q0959433A 01 6Q0959433H 35	-	0002	Control unit without power-window lifter, without radio control and without alarm function LHD
6Q0959433C 02 6Q0959433E 3A	-	0002	Control unit without power-window lifter, with radio con- trol without alarm function LHD
6Q0959433C OK	-	0002	Control unit without power-window lifter, with radio con- trol and alarm function (with interior monitoring) without alarm system with independent power supply LHD
6Q0959433C 03 6Q0959433E 2P	-	0002	Control unit without power-window lifter, with radio con- trol and alarm function (with interior monitoring) and alarm system with independent power supply LHD
6Q0959433A 04 6Q0959433H 2Q	6Q1959 801 04/2Q 6Q1959 802 04/2Q	0002 TFK 0001	Control unit with 2 power-window lifters, without radio control and alarm function LHD
6Q0959433C 06 6Q0959433E 2S	6Q1959801 06/2S 6Q1959802 06/2S	0002 TFK 0001	Control unit with 2 power-window lifters, with radio con- trol and without alarm function LHD
6Q0959433C 08 6Q0959433E 2U	6Q1959801 08/2U 6Q1959802 08/2U	0002 TFK 0001	Control unit with 2 power-window lifters, with radio con- trol and alarm function (with interior monitoring) and alarm system with independent power supply LHD

Control unit part No. ¹⁾		Program	Control unit function	
Central control unit for conven- ience system	Door control unit	number		
6Q0959433C OL 6Q0959433E OL	6Q1959801 OL 6Q1959802 OL	0002 TFK 0001	Control unit with 2 power-window lifters, with radio con- trol and alarm function (with interior monitoring) without alarm system with independent power supply LHD	
6Q0959433A 05 6Q0959433H 2R	6Q1959801 05/2R 6Q1959802 05/2R 6Q1959811 05 6Q1959812 05	0002 TFK 0001	Control unit with 4 power-window lifters, without radio control and alarm function LHD	
6Q0959433C 07 6Q0959433E 2T	6Q1959801 07 6Q1959802 07/2T 6Q1959811 07/2T 6Q1959812 07	0002 TFK 0001	Control unit with 4 power-window lifters, with radio con- trol and without alarm function LHD	
6Q0959433C 09 6Q0959433E 2V	6Q1959801 09/2V 6Q1959802 09/2V 6Q1959811 09/2V 6Q1959812 09/2V	0002 TFK 0001	Control unit with 4 power-window lifters, with radio con- trol and alarm function (with interior monitoring) and alarm system with independent power supply LHD	
6Q0959433C OM 6Q0959433E OM	6Q1959801 OM 6Q1959 02 OM 6Q1959811 OM 6Q1959812 OM	0002 TFK 0001	Control unit with 4 power-window lifters, with radio con- trol and alarm function (with interior monitoring) without alarm system with independent power supply LHD	
6Q0959433A 0A 6Q0959433H 2E	-	0002	Control unit without power-window lifter, without radio control and without alarm function RHD	
6Q0959433C 0B 6Q0959433E 2X 6Q0959433F 2X	-	0002	Control unit without power-window lifter, with radio con- trol and without alarm function RHD	
6Q0959433C 0C 6Q0959433E 2Y	-	0002	Control unit without power-window lifter, with radio con- trol and alarm function (with interior monitoring) and alarm system with independent power supply RHD	
6Q0959433A 0D 6Q0959433H 2Z	6Q1959801 0D/2Z 6Q1959802 0D/2Z	0002 TFK 0001	Control unit with 2 power-window lifters, without radio control and alarm function RHD	
6Q0959433C 0F 6Q0959433E 31 6Q0959433F 31	6Q1959801 0F/31 6Q0959802 0F/31	0002 TFK 0001	Control unit with 2 power-window lifters with radio con- trol and without alarm function RHD	
6Q0959433C 0H 6Q0959433H 33	6Q1959801 0H/33 6Q0959802 0H/33	0002 TFK 0001	Control unit with 2 power-window lifters, with radio con- trol and alarm function (with interior monitoring) and alarm system with independent power supply RHD	
6Q0959433A 0E 6Q0959433H 30	6Q1959801 0E30 6Q1959802 0E/30 6Q1959811 0E/30 6Q1959 812 0E/30	0002 TFK 0001	Control unit with 4 power-window lifters, without radio control and alarm function RHD	
6Q0959433C 0G 6Q0959433E 32 6Q0959433F 32	6Q1959801 0G/32 6Q1959802 0G/32 6Q1959811 0G/32 6Q1959812 0G/32	0002 TFK 0001	Control unit with 4 power-window lifters with radio con- trol and without alarm function RHD	

Control unit part No. ¹⁾		Program	Control unit function	
Central control unit for conven- ience system	Door control unit	number		
6Q0959433C 0J 6Q0959433E 34	6Q1959801 0J/34 6Q1959802 0J/34 6Q1959811 0J/34 6Q1959812 0J/34	0002 TFK 0001	Control unit with 4 power-window lifters, with radio con- trol and alarm function (with interior monitoring) and alarm system with independent power supply RHD	
6Q0959433C 0N 6Q0959433G 3B	6Q1959801 09/3B 6Q1959802 09/3B 6Q1959811 09/3B 6Q1959812 09/3B	0002 TFK 0001	Control unit with 2 power-window lifters, without radio control and alarm function LHD	
6Q0959433G 36	6Q1959801 36 6Q1959802 36	0002 TFK 0001	Control unit with 2 power-window lifters, without radio control and alarm function RHD	
6Q0959433 F 37		0002 TFK 0001	Control unit without power-window lifter, with 315 MHz radio control and alarm function (with interior monitor- ing) and alarm system with independent power supply RHD	
6Q0959433F 38	6Q1959801 38 6Q1959802 38	0002 TFK 0001	Control unit with 2 power-window lifters, with 315 MHz radio control and alarm function (with interior monitor- ing) and alarm system with independent power supply RHD	
6Q0959433F 39	6Q1959801 39 6Q1959802 39 6Q1959811 39 6Q1959812 39	0002 TFK 0001	Control unit with 4 power-window lifters, with 315 MHz radio control and alarm function (with interior monitor- ing) and alarm system with independent power supply RHD	

¹⁾ Current control unit version \Rightarrow electronic catalogue of original parts

Coding control unit with CAN databus cable

- Connecting vehicle system tester -V.A.G 1552- and selecting function 07 "code control unit". ⇒ Chap. 01-1.
- Enter code number following table:

Vehicle equipment	Code number indi- vidual door open- ing	Code number over- all door opening
Central locking without power-window lifter	00018	00019
Central locking with 2 power-window lifters	00066	00067
Central locking with 4 power-window lifters	00258	00259

Fault table Convenience system with CAN databus cable

i) Note

- Below is a list of all possible faults detected by the central control unit for convenience system -J393- and displayed on -V.A.G 1552 -, arranged according to their 5-digit fault code.
- SAE code, may be displayed on the right next to the fault number (e.g. 4214), ignore.
- If "Info in literature" appears in the display of the vehicle system tester, look for the text required in the fault table under the fault code.
- After repair always interrogate the fault memory using vehicle system tester -V.A.G 1552- and erase the memory.
- If parts are output as faulty: First check all cables and connectors to these components as well as the earth connections according to the Current Flow Diagram. Then check whether all plug connections are properly plugged into the relay plate. Replace the component only if this test does not reveal any fault. This applies in particular if faults are shown as "sporadic" (SP).

Display on V.A.G	6. 1552	Possible cause of fault	Rectifying fault
65535 no fault detect- ed		If after repair "No fault detected" is dis ed.	splayed, the self-diagnosis is complet-
00849 S contact on ig-	undefined switch status	 Terminal 15 O.K., S contact de- fective 	 Reading measured value block ⇒ 01-2 page 16
switch D -D-		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
00912 Switch for FL window lifter -E40-	Implausible signal	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 Switch for FL window lifter -E40- defective at central switch 	 Replace central switch for win- dow lifter
		 Switch for FL window lifter -E40- loose at central switch 	 Check switch FL fastening
			 Reading measured value block ⇒ 01-2 page 16
00913 Switch for FR window lifter, driver's side -E81-	Implausible signal	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 Switch for FR window lifter -E81- defective at central switch 	 Replace central switch for win- dow lifter
		Switch for FR window lifter -E81-	 Check switch FR fastening
		loose at central switch	- Reading measured value block \Rightarrow 01-2 page 16

Display on V.A.G. 1552		Possible cause of fault	Rectifying fault
00914 Switch for RL window lifter,	Implausible signal	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
-E53-		 Switch for RL window lifter -E53- defective at central switch 	 Replace central switch for win- dow lifter
		Switch for RL window lifter -E53-	 Check switch RL fastening
		loose at central switch	- Reading measured value block \Rightarrow 01-2 page 16
00915 Switch for RR window lifter,	Implausible signal	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
-E55-		 Switch for RR window lifter -E55- defective at central switch 	 Replace central switch for win- dow lifter
		Switch for RR window lifter -E55-	 Check switch RR fastening
		loose at central switch	- Reading measured value block \Rightarrow 01-2 page 16
00928 Locking unit for	Implausible signal	Locking unit defective	- Reading measured value block \Rightarrow 01-2 page 16
-F220-			 Replace locking unit
		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 No supply voltage for CL on driv- er's door 	 Check supply voltage
		 Resistance in the mechanism of the locking unit and control ele- ments 	 Check mechanism and ensure smooth operation
	wrong equipment	• other locking unit type fitted ¹⁾	 Replace locking unit
00929 Locking unit for	Implausible signal	 Locking unit defective 	 Reading measured value block ⇒ 01-2 page 16
senger's side			 Replace locking unit
-F221-		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 No supply voltage for CL on pas- senger's door 	 Check supply voltage
		 Resistance in the mechanism of the locking unit and control ele- ments 	 Check mechanism and ensure smooth operation
	wrong equipment	 other locking unit type fitted ¹⁾ 	 Replace locking unit

Display on V.A.G. 1552		Possible cause of fault		Rectifying fault	
00930 Locking unit for	Implausible signal	Locking unit defective	_	Reading measured value block \Rightarrow 01-2 page 16	
RL CL -F222-			_	Replace locking unit	
		 Cables or plug connections de- fective 	_	Check wiring and plug connec- tions according to the current flow diagram	
		 No supply voltage for CL on rear left door 	_	Check supply voltage	
		 Resistance in the mechanism of the locking unit and control ele- ments 	_	Check mechanism and ensure smooth operation	
	wrong equipment	• other locking unit type fitted ¹⁾	—	Replace locking unit	
00931 Locking unit for	Implausible signal	Locking unit defective	_	Reading measured value block \Rightarrow 01-2 page 16	
GL II -F223-			—	Replace locking unit	
		 Cables or plug connections de- fective 	_	Check wiring and plug connec- tions according to the current flow diagram	
		 No supply voltage for CL on rear right door 	_	Check supply voltage	
		 Resistance in the mechanism of the locking unit and control ele- ments 	_	Check mechanism and ensure smooth operation	
	wrong equipment	other locking unit type fitted ¹⁾	_	Replace locking unit	
00932 Window lifter	No setting or incor- rect setting	 missing or incorrectly set window lifter mechanism 	_	Initialisation for automatic lift/low- er lift mechanism	
side -V147-		 Window lifter motor driver's side -V147- defective 	_	Replace window lifter motor driv- er's side -V147-	
		 Cables or plug connections de- fective 	_	Check wiring and plug connec- tions according to the current flow diagram	
		 No supply voltage for CL on driv- er's door 	_	Check supply voltage	
		 Resistance in window lifter mechanism²⁾ 	_	Check mechanism and ensure smooth operation	
00933 Window lifter motor passen- ger's side -\/148-	No setting or incor- rect setting	 missing or incorrectly set window lifter mechanism 	_	Initialisation for automatic lift/low- er lift mechanism	
		 Window lifter motor passenger's side -V148- defective 	_	Replace window lifter motor pas- senger's side -V148-	
		 Cables or plug connections de- fective 	_	Check wiring and plug connec- tions according to the current flow diagram	
		 No supply voltage for CL on pas- senger's door 	-	Check supply voltage	
		 Resistance in window lifter mechanism²⁾ 	_	Check mechanism and ensure smooth operation	

Display on V.A.C	6. 1552	Possible cause of fault	Rectifying fault
00934 Window lifter	No setting or incor- rect setting	 missing or incorrectly set window lifter mechanism 	 Initialisation for automatic lift/low- er lift mechanism
motor rl -V26-		 Window lifter motor RL -V26- de- fective 	 Replace window lifter motor RL -V26-
		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 No supply voltage for CL on rear left door 	 Check supply voltage
		 Resistance in window lifter mechanism²⁾ 	 Check mechanism and ensure smooth operation
00935 Window lifter	No setting or incor- rect setting	 missing or incorrectly set window lifter mechanism 	 Initialisation for automatic lift/low- er lift mechanism
motor RR -V27-		 Window lifter motor RR -V27- defective 	 Replace window lifter motor RR -V27-
		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 No supply voltage for CL on rear right door 	 Check supply voltage
		 Resistance in window lifter mechanism²⁾ 	 Check mechanism and ensure smooth operation
00936 Window lifter	Implausible signal	 Window lifter switch passen- ger's side -E107- defective 	 Replace window lifter switch pas- senger's side -E107-
ger's side -E107-		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		Window lifter switch passen-	 Check switch fastening
		ger a side -E 107- 100se	- Reading measured value block \Rightarrow 01-2 page 16
00937 Window lifter		 Window lifter switch RL -E52- defective 	 Replace window lifter motor RL -E52-
SWITCH RL -E52-	•	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		Window lifter switch RL -E52-	 Check switch fastening
		loose	- Reading measured value block \Rightarrow 01-2 page 16
00938 Window lifter		 Window lifter switch RR -E54- defective 	 Replace window lifter switch RR -E54-
Switch KR -E54-		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 Window lifter switch RR -E54- loose 	 Check switch fastening
		10036	- Reading measured value block \Rightarrow 01-2 page 16

Display on V.A.G. 1552		Possible cause of fault		Rectifying fault	
00939 Replace mirror adjustment mo-		٠	Replace mirror adjustment motor driver's side -V149- defective	_	Replace mirror adjustment motor Replace driver's side -V149-
tor driver's side -V149-		•	Cables or plug connections de- fective	-	Check wiring and plug connec- tions according to the current flow diagram
		•	No supply voltage on driver's door	-	Check supply voltage
00940 Mirror adjust- ment motor pas-		•	Replace mirror adjustment motor passenger's side -V150- defective	-	Replace mirror adjustment motor passenger's side -V150-
senger's side -V150-		•	Cables or plug connections de- fective	-	Check wiring and plug connec- tions according to the current flow diagram
		٠	No supply voltage on passen- ger's door		Check supply voltage
00948 Close sliding roof signal	Short circuit to pos- itive	٠	Cables or plug connections de- fective	_	Check wiring and plug connec- tions according to the current flow
loor orginal		•	Sliding roof switch defective	_	Replace sliding roof switch
		٠	Sliding roof motor defective	_	Replace sliding roof motor
00949 Motor for CL	undefined switch status	٠	Motor for CL tailgate defective	-	Replace motor for CL tailgate
tailgate -V53-, LOCK		٠	Cables or plug connections de- fective	_	Check wiring and plug connec- tions according to the current flow diagram
		•	Resistance in lock control mechanism	_	Check lock control mechanism and ensure smooth operation
00950 Motor for CL	undefined switch status	٠	Motor for CL tailgate defective	I	Replace motor for CL tailgate
tailgate -V53-, UNLOCK		•	Cables or plug connections de- fective		Check wiring and plug connec- tions according to the current flow diagram
		٠	Resistance in lock control mechanism	_	Check lock control mechanism and ensure smooth operation
00955 Key 1	Adaptation thresh- old (mul) exceeded	٠	Key not adapted	_	Reading measured value block \Rightarrow 01-2 page 16
		٠	Key was operated over 200 times outside the reception range		Perform adaptation \Rightarrow Chap. 01-4
00956 Key 2	Adaptation thresh- old (mul) exceeded	•	Key not adapted	_	Reading measured value block \Rightarrow 01-2 page 16
		٠	Key was operated over 200 times outside the reception range	_	Perform adaptation \Rightarrow Chap. 01-4
00957 Key 3	Adaptation thresh- old (mul) exceeded	٠	Key not adapted	-	Reading measured value block \Rightarrow 01-2 page 16
		٠	Key was operated over 200 times outside the reception range	-	Perform adaptation \Rightarrow Chap. 01-4

Display on V.A.G	i. 1552	Possible cause of fault	Rectifying fault	
00958 Key 4	Adaptation thresh- old (mul) exceeded	 Key not adapted 	- Reading measured value block \Rightarrow 01-2 page 16	
		 Key was operated over 200 times outside the reception range 	- Perform adaptation \Rightarrow Chap. 01-4	
01030 Lock the CL key	Short circuit to earth	 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-2 page 16	
driver's side		Lock cylinder defective	 Replace lock cylinder 	
		Lock cylinder loose	 Check lock cylinder installation 	
01031 Unlock the CL	Short circuit to earth	 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-2 page 16	
the driver's side		Lock cylinder defective	 Replace lock cylinder 	
		Lock cylinder loose	 Check lock cylinder installation 	
01032 Lock the CL key	Short circuit to earth	 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-2 page 16	
passenger's		Lock cylinder defective	 Replace lock cylinder 	
side		Lock cylinder loose	 Check lock cylinder installation 	
01033 Unlock the CL	Short circuit to earth	 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-2 page 16	
the passenger's		Lock cylinder defective	 Replace lock cylinder 	
side		Lock cylinder loose	 Check lock cylinder installation 	
01034 Window lifter:		 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-2 page 16	
Activation of thermo fuse, driver's side		 Window lifter mechanism loose or stiff 	 Check window lifter mechanism 	
		• Resistance in window lifter motor	 Check window lifter motor 	
		 Resistance in the window run during lifting and lowering of door window 	 Eliminate obstacle 	
01035 Window lifter:		 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-2 page 16	
Activation of thermo fuse, front passen-		 Window lifter mechanism loose or stiff 	 Check window lifter mechanism 	
ger's side		• Resistance in window lifter motor	 Check window lifter motor 	
		 Resistance in the window run during lifting and lowering of door window 	 Eliminate obstacle 	
01036 Window lifter:		 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-2 page 16	
thermo fuse, RL		 Window lifter mechanism loose or stiff 	 Check window lifter mechanism 	
		• Resistance in window lifter motor	 Check window lifter motor 	
		 Resistance in the window run during lifting and lowering of door window 	 Eliminate obstacle 	

Display on V.A.G. 1552		Possible cause of fault	Rectifying fault	
01037 Window lifter:		 Cables or plug connections de- fective 	 Reading measured value block ⇒ 01-2 page 16 	
thermo fuse, RR		 Window lifter mechanism loose or stiff 	 Check window lifter mechanism 	
		Resistance in window lifter motor	 Check window lifter motor 	
		 Resistance in the window run during lifting and lowering of door window 	 Eliminate obstacle 	
01038 Central lokking		 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-2 page 16	
inernio luse		 Resistance in door lock 	 Check door lock 	
01044 Control unit		 another control unit used 	 Replace control unit 	
wrongly coded		 Control unit wrongly coded 	 Check control unit coding 	
01134 Alarm horn -H12-	undefined switch status	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram 	
	defective	 Alarm horn defective 	 Replace alarm horn 	
	No communication	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram 	
	internal power sup- ply	 Alarm system with independent supply defective 	 Check alarm system with inde- pendent supply, if necessary re- place 	
01135 Sensors for inte- rior monitoring	Open circuit	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram 	
	defective	 Sensors for interior monitoring defective 	 Replace sensors for interior moni- toring 	
		 Sensors for interior monitoring not fitted 	 Check the connection of sensors 	
01179 Key program-		 The key adaptation was not car- ried out correctly 	- Adapt key again \Rightarrow Chap. 01-4	
ming, wrong			- Reading measured value block \Rightarrow 01-2 page 16	
01312 Databus drive	please read out fault memory	 No communication between units No speed signal or Gateway 	 Read fault memory of the central control unit ⇒ Electrical System RepGr. 90 	
01322	No communication	No communication between	 Read fault memory of the central 	
Control unit for		units	control unit \Rightarrow Electrical System	
unit	please read out fault memory		керыг. 90	

Display on V.A.C	G. 1552	Possible cause of fault	Rectifying fault
01330	defective	Control unit -J393- defective	 Replace control unit -J393-
unit for conven- ience system -J393-			 If the communication cable be- tween the units or control unit is O.K.:
			 Erasing fault memory
			 Perform a functional test
	Voltage supply too high	 Voltage supply N.O.K. Voltage supply must be within 	 Check cables, plug connections and fuses in accordance with the current flow diagram
		range 6.318V	 Checking voltage supply
	Voltage supply too	 Battery discharged or defective 	 Replace battery or charge battery
lc	low	 Voltage regulator or AC genera- tor defective 	 Check voltage regulator or AC generator ⇒ Electrical System Rep Gr. 90
01331	defective	 Control unit -J386- defective 	 Replace control unit -J386-
Door control unit driver's side -J386-	No communication	 Communication cable between the control units or control unit defective 	 Check communication cable be- tween control units in accord- ance with the current flow diagram, or replace control units
			 If the communication cable be- tween the units or control unit is O.K.:
			 Erasing fault memory
			 Perform a functional test
			- Reading measured value block \Rightarrow 01-2 page 16
	Voltage supply too high	 Voltage supply N.O.K. Voltage supply must be within warse 6.2 + 10V/ 	 Check cables, plug connections and fuses in accordance with the current flow diagram
			 Check voltage supply on driver's door
	Voltage supply too	 Battery discharged or defective 	 Replace battery or charge battery
		 Voltage regulator or AC genera- tor defective 	 Check voltage regulator or AC generator ⇒ Electrical System Rep Gr. 90

Display on V.A.G. 1552		Possible cause of fault	Rectifying fault
01332 Door control unit passenger's side -J387-	defective	Control unit -J387- defective	 Replace control unit -J387-
	No communication	Communication cable between the control units or control unit defective	 Check communication cable be- tween control units in accord- ance with the current flow diagram, or replace control units
			 If the communication cable be- tween the units or control unit is O.K.:
			 Erasing fault memory
			 Perform a functional test
			- Reading measured value block \Rightarrow 01-2 page 16
	Voltage supply too high	 Voltage supply N.O.K. Voltage supply must be within range 6.318V 	 Check cables, plug connections and fuses in accordance with the current flow diagram
			 Check voltage supply on passen- ger's door
	Voltage supply too low	 Battery discharged or defective 	 Replace battery or charge battery
		 Voltage regulator or AC genera- tor defective 	 Check voltage regulator or AC generator ⇒ Electrical System Rep Gr. 90
01333 Deer control unit	defective	 Control unit -J388- defective 	 Replace control unit -J388-
Door control unit RL -J388-	No communication	 Communication cable between the control units or control unit defective 	 Check communication cable be- tween control units in accord- ance with the current flow diagram, or replace control units
			 If the communication cable be- tween the units or control unit is O.K.:
			 Erasing fault memory
			 Perform a functional test
			- Reading measured value block \Rightarrow 01-2 page 16
	Voltage supply too high	 Voltage supply N.O.K. Voltage supply must be within range 6.318V 	 Check cables, plug connections and fuses in accordance with the current flow diagram
			 Check voltage supply door RL
	Voltage supply too low	 Battery discharged or defective 	 Replace battery or charge battery
		 Voltage regulator or AC genera- tor defective 	 Check voltage regulator or AC generator ⇒ Electrical System Rep Gr. 90

Display on V.A.G. 1552		Possible cause of fault	Rectifying fault
01334 Door control unit RR -J389-	defective	Control unit -J389- defective	- Replace control unit -J389-
	No communication	 Communication cable between the control units or control unit defective 	 Check communication cable be- tween control units in accord- ance with the current flow diagram, or replace control units
			 If the communication cable be- tween the units or control unit is O.K.:
			 Erasing fault memory
			- Reading measured value block \Rightarrow 01-2 page 16
	Voltage supply too high	 Voltage supply N.O.K. 	- Check cables, plug connections
		 Voltage supply must be within 	current flow diagram
		range "6.318V"	 Check voltage supply door RR
	Voltage supply too low	 Battery defective or discharged 	- Replace battery or charge battery
		 Voltage regulator or AC genera- tor defective 	 Check voltage regulator or AC generator ⇒ Electrical System Rep Gr. 90
01336	defective	Data bus cable defective	 Replace cable harness
Group conven- ience data bus		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		CU defective	 Replace the CU blocking the data bus for convenience functions
			 Disconnect all doors and re-con- nect in sequence. While doing so observe measured value block
		 No communication between units 	 Check central control unit
	in single-filament operation	 Data bus defective (data bus in emergency operation) 	- Reading measured value block \Rightarrow 01-2 page 16
			 Check wiring and plug connec- tions according to the current flow diagram
01337 Inside door han- dle lighting	Short circuit to pos- itive	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram
		 Inside door handle lights defec- tive 	- Replace inside door handle lights
			- Reading measured value block \Rightarrow 01-2 page 16
01338 Signal: doors not closed	Short circuit to pos- itive	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram
			- Reading measured value block \Rightarrow 01-2 page 16
		 Outlet CU for convenience sys- tem defective 	 Replace control unit for conven- ience system

Display on V.A.G. 1552		Possible cause of fault	Rectifying fault
01340 Mirror adjust- ment switch	Implausible signal	 Mirror adjustment switch defec- tive 	 Replace switch
		 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram
		 Mirror adjustment switch loose 	 Check switch fastening
			 Reading measured value block ⇒ 01-2 page 16
01358 Switch for inside locking, driver's	Implausible signal	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram
Side -E 150-		 Switch -E150- defective 	 Replace switch
		 Switch -E150- loose 	 Check switch fastening
			- Reading measured value block \Rightarrow 01-2 page 16
01359 Switch for inside locking, passen- ger's side -E198-	Implausible signal	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram
		 Switch -E198- defective 	 Replace switch
		 Switch -E198- loose 	 Check switch fastening
			- Reading measured value block \Rightarrow 01-2 page 16
01362 Switch for tail- gate: sclose -F124- ³⁾	Short circuit to earth	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 Resistance in lock control mech- anism or lock cylinder 	 Check lock control mechanism and ensure smooth operation
			 Replace lock cylinder
		 Switch for tailgate -F124- defec- tive 	 Replace switch for tailgate -F124-
		 Switch for tailgate -F124- loose 	 Check switch fastening -F124-
			- Reading measured value block \Rightarrow 01-2 page 16
01389 Open switch for tailgate -F124- ³⁾	Implausible signal	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
	Short circuit to earth	 Resistance in lock control mech- anism or lock cylinder 	 Check lock control mechanism and ensure smooth operation
			 Replace lock cylinder
		 Switch for tailgate -F124 - defective 	 Replace switch for tailgate -F124-
		 Switch for tailgate -F124 - loose 	 Check switch fastening -F124-
			- Reading measured value block \Rightarrow 01-2 page 16

 $^{1)}\,$ A different Safe function is used in countries with special regulations.

²⁾ and check the motion of the door window in the window run.

³⁾ Not fitted on FABIA.
Reading measured value block for convenience system with CAN databus cable

The measured value block is subdivided into 15 display groups. Each display group is subdivided into max. 4 display fields.

Readout on display:

- Enter function 08.

Readout on display:

- Confirm the entry with key Q.

Readout on display:

Readout on display:

The breakdown of the display contents in the individual display fields is available in the test table. Test table \Rightarrow 01-2 page 16

To switch to another display field: Press \bigcirc or \bigcirc .

End measured value block test:

- Press C key.

Readout on display:

i Note

- After ending the function "Reading measured value block" interrogate the fault memory ⇒ Chap. 01-1.
- If the CAN databus is defective, the text "CU does not answer" will be displayed instead of "Read measured value block".

HELP

Q

Reading measured value block Enter display group number	xxx	->

Read measured value block

Reading	measured	value	block	1	->
1	2		3	4	



Vehicle system test

Vehicle system test

80

Select function XX

HELP

Test table for convenience system with CAN databus cable

Display group 001

Display field	Readout on dis- play	Denomination	Rectifying fault
1	autom. closing man. closing man. opening autom. opening not activated	Central switch for window lifter: switch for window lifter DS	 Visual inspection of the cable guide. Check window lifter switch for correct fitting and tightness. Check the correct fitting and tightness of
2	yes no	WL thermo fuse DS ¹⁾	the plug connections of the relevant cir- cuit while observing the display. If the
3	on off pot fitted	Child safety catch switch	display content does not change during activation, rectify fault or replace the rel- evant component.
	not med		 Erase fault memory.
			 Perform a functional test.
			 Interrogate the fault memory again.
			 Only operational with the ignition switched on.

¹⁾ yes- thermo fuse active (system disconnected), no- thermo fuse not active (system in operation)

Display group number 002

Display field	Readout on display	Denomination	Rectifying fault
1	autom. closing man. closing man. opening autom. opening not activated	Central switch for window lifter: switch for window lifter FPS	 Visual inspection of the cable guide. Check window lifter switch for correct fitting and tightness. Check the correct fitting and tightness of
2	man. closing man. opening not activated not fitted	Central switch for window lifter: switch for window lifter RR	the plug connections of the relevant cir- cuit while observing the display. If the display content does not change during activation, rectify fault or replace the rele-
3	man. closing not activated man. opening not fitted	Central switch for window lifter: switch for window lifter RL	 Vant component. Erase fault memory. Perform a functional test. Interrogate the fault memory again.

Display field	Readout on display	Denomination	Rectifying fault
1	pos. X+ pos. X- pos. Y+ pos. Y- not activated implausible	Mirror adjustment switch	 Visual inspection of the cable guide. Check mirror adjustment switch for correct fitting and tightness. Check the correct fitting and tightness of the plug connections of the relevant cir-
2	left right not activated implausible	Mirror selection switch	cuit while observing the display. If the dis- play content does not change during activation, rectify fault or replace the rele- vant component.
3	released engaged not fitted	Mirror ratchet control DS ¹⁾	 Erase fault memory. Perform a functional test.
4	on off	Mirror heating	 Interrogate the fault memory again.

¹⁾ Not fitted on FABIA.

Display group number 004

Display field	Readout on display	Denomination	Rectifying fault
1	man. closing man. opening not activated implausible	Window lifter switch: door FPS	 Visual inspection of the cable guide. Check window lifter switch for correct fit- ting and tightness.
2	yes no	WL thermo fuse PS ¹⁾	 Check the correct fitting and tightness of the plug connections of the relevant cir- cutation of the displayed for the displa
3	released engaged not fitted	Mirror ratchet control PS ²⁾	cuit while observing the display. If the display content does not change during activation, rectify fault or replace the relevant component.
			 Erase fault memory.
			 Perform a functional test.
			 Interrogate the fault memory again.

yes- thermo fuse active (system disconnected), no- thermo fuse not active (system in operation)
 Not fitted on FABIA.

Display field	Readout on display	Denomination	Rectifying fault
1	man. closing man. opening not activated implausible not fitted	Window lifter switch: door RL	 Visual inspection of the cable guide. Check window lifter switch for correct fitting and tightness. Check the correct fitting and tightness of
2	yes no not fitted	WL thermo fuse RL ¹⁾	the plug connections of the relevant cir- cuit while observing the display. If the dis- play content does not change during
3	man. closing man. opening not activated implausible not fitted	Window lifter switch: door RR	 activation, rectify fault or replace the relevant component. Erase fault memory. Perform a functional test.
4	yes no not fitted	WL thermo fuse RR ¹⁾	 Interrogate the fault memory again.

¹⁾ yes- thermo fuse active (system disconnected), no- thermo fuse not active (system in operation)

Display group number 006

Display field	Readout on display	Denomination	Rectifying fault
1	xx.x V	Onboard voltage, term. 30	 Visual inspection of the cable guide.
2	term. 15 on term. 15 off no contact	Ignition, term. 15	 Check the correct fitting and tightness of the plug connections of the relevant cir- cuit while observing the display. If the dis-
3	activated deactivated no contact	S contact	play content does not change during activation, rectify fault or replace the rele- vant component.
4	0- 225 km/h (after 2	current speed	 Erase fault memory.
	km/n) no measured value		 Perform a functional test.
	no contact		 Interrogate the fault memory again.

Display field	Readout on display	Denomination	Rectifying fault
1	open closed not activated.	Key switch DS	 Visual inspection of the cable guide. Check lock cylinder for correct fitting and tightness
2	open closed not activated.	Key switch PS	 Check the correct fitting and tightness of the plug connections of the relevant cir-
3	locking unlocking not activated implausible	Lock/Unlock button DS	cuit while observing the display. If the dis- play content does not change during activation, rectify fault or replace the rele- vant component.
4	locking unlocking not activated implausible	Lock/Unlock button DS ¹⁾	 Erase fault memory. Perform a functional test. Interrogate the fault memory again.

¹⁾ Not fitted on FABIA.

Display group number 008

Display field	Readout on display	Denomination	Rectifying fault
1	not fitted open closed no contact	Engine hood contact	 Visual inspection of the cable guide. Check switch for correct fitting and tightness.
2	locking unlocking not activated implausible	Key switch tailgate	 Check the correct fitting and tightness of the plug connections of the relevant cir- cuit while observing the display. If the dis- play content does not change during
3	open closed no contact	Tailgate contact switch	 activation, rectify fault or replace the relevant component. Erase fault memory. Perform a functional test. Interrogate the fault memory again.
4	yes no	Central locking thermo fuse ¹⁾	

¹⁾ yes- thermo fuse active (system disconnected), no- thermo fuse not active (system in operation).

Display field	Readout on display	Denomination	Rectifying fault
1	unlock lock safe not fitted	CL acknowledgement: door DS	 Visual inspection of the cable guide. Check the correct fitting and tightness of the plug connections of the relevant cir- cuit while observing the display. If the display
2	unlock lock safe not fitted	CL acknowledgement: door PS	play content does not change during activation, rectify fault or replace the rele- vant component.
3	unlock lock safe not fitted	CL acknowledgement: door RL	 Erase fault memory. Perform a functional test. Interrogate the fault memory again.
4	unlock lock safe not fitted	CL acknowledgement: door RR	

Display group 010

Display field	Readout on display	Denomination	Rectifying fault
1	Door open door closed	Rotary latch switch: DS	 Visual inspection of the cable guide. Check rotary latch switch for correct fit.
2	Door open door closed	Rotary latch switch: FPS	ting and tightness.
3	Door open door closed not fitted	Rotary latch switch: RL	the plug connections of the relevant cir- cuit while observing the display. If the dis- play content does not change during
4	Door open door closed not fitted	Rotary latch switch: RR	activation, rectify fault or replace the rele- vant component. – Erase fault memory.
			 Perform a functional test.
			 Interrogate the fault memory again.

Display field	Readout on display	Denomination	Rectifying fault
1	yes no not fitted no contact	Immobilizer key detection	 Visual inspection of the cable guide. Check electronic immobiliser ⇒ Electrical System Rep Gr. 90. Re-initialise radio control via function 10 "Adaptation" ⇒ Chap. 01-4.
2	activated deactivated not fitted	Automatic lock/unlock switch (>15 km/h) ¹⁾	 Check switch for correct fitting and tight- ness.
3	on off	Sliding/tilting roof closed	 Check the correct fitting and tightness of the plug connections of the relevant cir- cuit while observing the display. If the dis-
4	Two-wire single wire	Bus status	play content does not change during activation, rectify fault or replace the rele- vant component.
			 Erase fault memory.
			 Perform a functional test.
			 Interrogate the fault memory again.

¹⁾ Not fitted on FABIA.

Display group number 012

Display field	Readout on display	Denomination	Rectifying fault
1	D door 0/1	Driver's door equipment	 These display fields only indicate what
2	P door 0/1	Passenger's door equipment	the relevant vehicle equipment looks like.
3	Door RL 0/1	Equipment door RL	- Here you can check, e.g. which control
4	Door RR 0/1	Equipment door RR	which are activated or blocked.

Display field	Readout on display	Denomination	Rectifying fault
1	O.K. N.O.K. no measured value	Fixed code known ¹⁾	If "N.O.K." – Key code is outside of reception range.
2	O.K. N.O.K. no measured value	Code in reception range ¹⁾	(Adaptation) \Rightarrow Chap. 01-4 .
3	O.K. N.O.K. no measured value	Algorithm ¹⁾	 Battery in key discharged, replace bat- tery.
4	04	Key number (key having just been activated) ¹⁾	 Remote control defective, replace remote control.
			 When activating a key initialised by radio control, the position in which the key was initialised is displayed here. If the tester displays "0", even though a radio control button was pressed, the key must be reinitialised via function "10" Adaptation ⇒ Chap. 01-4.

 $^{1)}\,$ Only on vehicles with remote control and alarm function \Rightarrow Chap. 01-1.

Display group number 014

Display field	Readout on display	Denomination	Rectifying fault
1	00001)	Remote control key buttons ²⁾ unlocking locking HDF Panic ³⁾	 If "N.O.K." Key code is outside of reception range. Re-initialise radio control via function "10" (Adaptation) ⇒ Chap. 01-4.
2	yes no not fitted	sensor for interior monitoring ²⁾	If "no measured value" — Battery in key discharged, replace bat-
3	on off not fitted	IRUE cut-off ²⁾⁴⁾	 tery. Remote control defective, replace remote control.

¹⁾ 0=not activated, 1=activated

 $^{\mbox{\tiny 2)}}$ Only on vehicles with remote control and alarm function.

³⁾ HDF - Tailgate remote unlocking button, panic-alarm by remote control; not fitted on FABIA.

⁴⁾ Not fitted on FABIA.

Display field	Readout on display	Denomination	Rectifying fault
1	Display 165535	last alarm source ¹⁾	Only the last 4 activation zones of the anti- theft alarm system are displayed!
2	Display 165535	penultimate alarm source ¹⁾	e.g. "32" - engine hood contact switch \Rightarrow 01-2 page 23.
3	Display 165535	3. last alarm source ¹⁾	
4	Display 165535	4. last alarm source ¹⁾	

 $^{1)}\,$ Only on vehicles with remote control and alarm function \Rightarrow Chap. 01-1.

Possible alarm sources

Alarm sources	Alarm code
Rotary latch switch DD	1
Rotary latch switch PD	2
Rotary latch switch RL	4
Rotary latch switch RR	8
5. Tailgate contact switch	16
Read immobiliser	17
Interruption of the contact with the alarm system with independent power supply	18
Engine hood contact switch	32
Ignition, term. 15	64
Interior monitoring	128
No alarm	255

01-3 Self-diagnosis for convenience system with LIN databus cable

Overview of the selectable functions of the self-diagnosis for convenience system with LIN databus cable

Operation		Page
01	Interrogating control unit version	\Rightarrow Chap. 01-1 \Rightarrow 01-3 page 1
02	Interrogating fault memory	\Rightarrow Chapter 01-1
03	Actuator diagnosis	\Rightarrow Chapter 01-1
05	Erasing fault memory	\Rightarrow Chapter 01-1
06	Ending output	\Rightarrow Chapter 01-1
07	Coding control unit	\Rightarrow Chap. 01-1 \Rightarrow 01-3 page 2
08	Reading measured val- ue block	\Rightarrow 01-3 page 10
10	Adjustment	\Rightarrow Chapter 01-4

Overview of the control units for convenience system with LIN databus cable

Control unit for convenie	ence system	Control unit function
Control unit part No. ¹⁾	Program number	
6Q0959433H 35	0002	Control unit without radio control and alarm function LHD
6Q0959433E 3A	0002	Control unit with radio control and without alarm function LHD
6Q0959433E 2P	0002	Control unit with radio control and alarm function (with interior monitoring) and alarm system with independent power supply LHD
6Q0959433H 2W	0002	Control unit without radio control and alarm function RHD
6Q0959433E 2X 6Q0959433F 2X	0002	Control unit with radio control and without alarm function RHD
6Q0959433E 2Y	0002	Control unit with radio control and alarm function (with interior monitoring) and alarm system with independent power supply RHD
6Q0959433F 37	0002	Control unit with radio control (315 MHz) and alarm function (with interior monitoring) and alarm system with independent power supply RHD

¹⁾ Current control unit version \Rightarrow electronic catalogue of original parts

Coding control unit with LIN databus coding

- Connect vehicle system tester -V.A.G 1552- and enter function 07 "coding control unit" \Rightarrow Chapter 01-1.
- Enter code number following table:

Vehicle equipment	Code number indi- vidual door open- ing	Code number over- all door opening
Central locking system	00018	00019

Fault table of control unit for convenience system with LIN databus cable

i Note

- Below is a list of all possible faults detected by the central control unit for convenience system -J393- and displayed on -V.A.G 1552 -, arranged according to their 5-digit fault code.
- SAE code, may be displayed on the right next to the fault number (e.g. 4214), ignore.
- If "Info in literature" appears in the display of the vehicle system tester, look for the text required in the fault table under the fault code.
- After repair always interrogate the fault memory using vehicle system tester -V.A.G 1552- and erase the memory.
- If parts are output as faulty: First check all cables and connectors to these components as well as the earth connections according to the Current Flow Diagram. Then check whether all plug connections are properly plugged into the relay plate. Replace the component only if this test does not reveal any fault. This applies in particular if faults are shown as "sporadic" (SP).

Display on V.A.G. 1552		Possible cause of fault	Rectifying fault
65535 no fault detect- ed		If after repair "No fault detected" is displayed, the self-diagnosis is completed.	
00849 S contact on ig-	undefined switch status	 Terminal 15 O.K., S contact de- fective 	- Reading measured value block \Rightarrow 01-3 page 10
switch D -D-		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram

Display on V.A.G	6 . 1552	Possible cause of fault	Rectifying fault
00928 Locking unit for	Implausible signal	Locking unit defective	 Reading measured value block ⇒ 01-3 page 10
-F220-			 Replace locking unit
		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 No supply voltage for CL on driv- er's door 	 Check supply voltage
		 Resistance in the mechanism of the locking unit and control ele- ments 	 Check mechanism and ensure smooth operation
	wrong equipment	 other locking unit type fitted ¹⁾ 	 Replace locking unit
00929 Locking unit for	Implausible signal	Locking unit defective	- Reading measured value block \Rightarrow 01-3 page 10
Senger's side			 Replace locking unit
-F221-		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 No supply voltage for CL on pas- senger's door 	 Check supply voltage
		 Resistance in the mechanism of the locking unit and control ele- ments 	 Check mechanism and ensure smooth operation
	wrong equipment	 other locking unit type fitted ¹⁾ 	 Replace locking unit
00930 Locking unit for	Implausible signal	Locking unit defective	 Reading measured value block ⇒ 01-3 page 10
RL CL -F222-			 Replace locking unit
		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 No supply voltage for CL on rear left door 	 Check supply voltage
		 Resistance in the mechanism of the locking unit and control ele- ments 	 Check mechanism and ensure smooth operation
	wrong equipment	 other locking unit type fitted ¹⁾ 	 Replace locking unit
00931 Locking unit for	Implausible signal	 Locking unit defective 	 Reading measured value block ⇒ 01-3 page 10
CL ff -F223-			 Replace locking unit
		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 No supply voltage for CL on rear right door 	 Check supply voltage
		 Resistance in the mechanism of the locking unit and control ele- ments 	 Check mechanism and ensure smooth operation
	wrong equipment	 other locking unit type fitted ¹⁾ 	 Replace locking unit

Display on V.A.C	6 . 1552	Possible cause of fault	Rectifying fault
00948 Close sliding roof signal	Short circuit to pos- itive	 Cables or plug connections defective Sliding roof switch defective 	 Check wiring and plug connec- tions according to the current flow diagram
		Sliding roof motor defective	Replace sliding roof switch Replace sliding roof mater
00949 Motor for Cl	undefined switch	Motor for CL tailgate defective	 Replace sliding root motor Replace motor for CL tailgate
tailgate -V53-, LOCK		 Cables or plug connections defective 	 Check wiring and plug connec- tions according to the current flow diagram
		 Resistance in lock control mech- anism 	 Check lock control mechanism and ensure smooth operation
00950 Motor for CL	undefined switch status	Motor for CL tailgate defective	 Replace motor for CL tailgate
taligate -V53-, UNLOCK		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		 Resistance in lock control mech- anism 	 Check lock control mechanism and ensure smooth operation
00955 Key 1	Adaptation thresh- old (mul) exceeded	 Key not adapted 	- Reading measured value block \Rightarrow 01-3 page 10
		 Key was operated over 200 times outside the reception range 	- Perform adaptation \Rightarrow Chap. 01-4
00956 Key 2	Adaptation thresh- old (mul) exceeded	 Key not adapted 	 Reading measured value block ⇒ 01-3 page 10
		 Key was operated over 200 times outside the reception range 	- Perform adaptation \Rightarrow Chap. 01-4
00957 Key 3	Adaptation thresh- old (mul) exceeded	 Key not adapted 	- Reading measured value block \Rightarrow 01-3 page 10
		 Key was operated over 200 times outside the reception range 	- Perform adaptation \Rightarrow Chap. 01-4
00958 Key 4	Adaptation thresh- old (mul) exceeded	 Key not adapted 	- Reading measured value block \Rightarrow 01-3 page 10
		 Key was operated over 200 times outside the reception range 	- Perform adaptation \Rightarrow Chap. 01-4
01030 Lock the CL key	Short circuit to earth	 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-3 page 10
driver's side		 Lock cylinder defective 	 Replace lock cylinder
		Lock cylinder loose	 Check lock cylinder installation
01031 Unlock the CL	Short circuit to earth	 Cables or plug connections de- fective 	⇒ 01-3 page 10
the driver's side		 Lock cylinder defective 	 Replace lock cylinder
		 Lock cylinder loose 	 Check lock cylinder installation

Display on V.A.G	6. 1552	Possible cause of fault	Rectifying fault
01032 Lock the CL key	Short circuit to earth	 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-3 page 10
switch on the passenger's		Lock cylinder defective	 Replace lock cylinder
side		Lock cylinder loose	 Check lock cylinder installation
01033 Unlock the CL	Short circuit to earth	 Cables or plug connections de- fective 	\Rightarrow 01-3 page 10
key switch on the passenger's		 Lock cylinder defective 	 Replace lock cylinder
side		 Lock cylinder loose 	 Check lock cylinder installation
01038 Central locking		 Cables or plug connections de- fective 	 Reading measured value block ⇒ 01-3 page 10
thermo fuse		 Resistance in door lock 	 Check door lock
01044		 another control unit used 	 Replace control unit
wrongly coded		 Control unit wrongly coded 	 Check control unit coding
01134 Alarm horn -H12-	undefined switch status	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
	defective	 Alarm horn defective 	 Replace alarm horn
	No communication	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
	internal power sup- ply	 Alarm system with independent supply defective 	 Check alarm system with inde- pendent supply, if necessary re- place
01135 Sensors for inte- rior monitoring	Open circuit	 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
	defective	 Sensors for interior monitoring defective 	 Replace sensors for interior moni- toring
		 Sensors for interior monitoring not fitted 	 Check the connection of sensors
01179 Key program-		 The key adaptation was not car- ried out correctly 	- Adapt key again \Rightarrow Chap. 01-4
ming, wrong			- Reading measured value block \Rightarrow 01-3 page 10
01312 Databus drive	please read out fault memory	 No communication between units 	 Read fault memory of the central control unit ⇒ Electrical System Rep -Gr. 90
01222	No communication	No speed signal or Gateway	
Control unit for	NO COMMUNICATION	units	- Read fault memory of the central control unit \Rightarrow Electrical System
unit	please read out fault memory		керGr. 90

Display on V.A.C	G. 1552	Possible cause of fault	Rectifying fault
01330	defective	Control unit -J393- defective	 Replace control unit -J393-
Central control unit for conven- ience system -J393-			 If the communication cable be- tween the units or control unit is O.K.:
			 Erasing fault memory
			 Perform a functional test
	Voltage supply too high	 Voltage supply N.O.K. Voltage supply must be within 	 Reading measured value block ⇒ 01-3 page 10
		range 6.318V	 Check cables, plug connections and fuses in accordance with the current flow diagram
			 Checking voltage supply
	Voltage supply too	 Battery discharged or defective 	 Replace battery or charge battery
	low	 Voltage regulator or AC genera- tor defective 	 Check voltage regulator or AC generator ⇒ Electrical System Rep Gr. 90
01336 Croup conven	defective	 Data bus cable defective 	 Replace cable harness
ience data bus		 Cables or plug connections de- fective 	 Check wiring and plug connec- tions according to the current flow diagram
		CU defective	 Replace the CU blocking the data bus for convenience functions
			 Disconnect all doors and re-con- nect in sequence. While doing so observe measured value block
		 No communication between units 	 Check central control unit
	in single-filament operation	 Data bus defective (data bus in emergency operation) 	 Reading measured value block ⇒ 01-3 page 10
			 Check wiring and plug connec- tions according to the current flow diagram
01337 Inside door han- dle lighting	Short circuit to pos- itive	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram
		Inside door handle lights defec-	 Replace inside door handle lights
		live	- Reading measured value block \Rightarrow 01-3 page 10
01338 Signal: doors not closed	Short circuit to pos- itive	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram
			 Reading measured value block ⇒ 01-3 page 10
		Outlet CU for convenience sys- tem defective	 Replace control unit for conven- ience system

Display on V.A.G	G. 1552	Possible cause of fault	Re	ctifying fault
01358 Switch for inside locking, driver's	Implausible signal	 Cables or plug connections de- fective 	—	Check cables, plug connections and fuses in accordance with the current flow diagram
SIDE -E 150-		 Switch -E150- defective 	-	Replace switch
		 Switch -E150- loose 	-	Check switch fastening
			-	Reading measured value block \Rightarrow 01-3 page 10
01359 Switch for inside locking, passen-	Implausible signal	 Cables or plug connections de- fective 	_	Check cables, plug connections and fuses in accordance with the current flow diagram
-E198-		 Switch -E198- defective 	-	Replace switch
		 Switch -E198- loose 	-	Check switch fastening
			-	Reading measured value block \Rightarrow 01-3 page 10
01362 Switch for tail- gate: sclose	Short circuit to earth	 Cables or plug connections de- fective 		Check wiring and plug connec- tions according to the current flow diagram
-F124- ² /		 Resistance in lock control mech- anism or lock cylinder 	-	Check lock control mechanism and ensure smooth operation
			-	Replace lock cylinder
		 Switch for tailgate -F124- defec- tive 	-	Replace switch for tailgate -F124-
		 Switch for tailgate -F124- loose 	-	Check switch fastening -F124-
			-	Reading measured value block \Rightarrow 01-3 page 10
01389 Open switch for tailgate -F124- ²⁾	Implausible signal	 Cables or plug connections de- fective 	_	Check wiring and plug connec- tions according to the current flow diagram
	Short circuit to earth	Resistance in lock control mech- anism or lock cylinder	-	Check lock control mechanism and ensure smooth operation
			-	Replace lock cylinder
		 Switch for tailgate -F124- defec- tive 	-	Replace switch for tailgate -F124-
		 Switch for tailgate -F124- loose 	-	Check switch fastening -F124-
			-	Reading measured value block \Rightarrow 01-3 page 10

¹⁾ A different Safe function is used in countries with special regulations.

²⁾ Not fitted on FABIA.

Fault table of LIN databus/control units for window control in the individual doors

The table is used for determining faults of LIN databus (interruption or short circuit), if the window control is restricted or fully non-operational.

Possible faults in the system of the window control with LIN databus cable:

In the convenience sytem with LIN databus cable (window control) 5 fault conditions must be distinguished:

- Short circuit of LIN databus to earth or positive
- No communication from control unit for window control/driver door (problems with transmission or reception wiring or databus interruption between CU for window control/driver door and CU for window control/ other doors).
- No communication from control unit for window control/front passenger door (problems with transmission or reception wiring or databus interruption between CU for window control/front passenger and CU for window control/other doors).
- No communication from control unit for window control/door RL (problems with transmission or reception wiring or databus interruption between CU for window control/door RL and CU for window control/other doors).
- No communication from control unit for window control/door RR (problems with transmission or reception wiring or databus interruption between CU for window control/door RR and CU for window control/other doors).

In case of fault finding (window control restricted or fully non-operational) it is required:

- To disconnect battery for more than 30 seconds.
- To deactivate child safety locks (must be inactive).
- To close front doors (door contact switch in position disconnected).
- To switch on ignition.
- To initialise all windows (if possible).

i Note

- If the battery is disconnected and reconnected, carry out additional operations ⇒ Electrical System; Rep. Gr. 27.
- All the possible faults which can occur during the communication among the control units for window control in the individual doors are listed below.

Conditions of control units for window control, door:				Possible cause of fault	Rectifying fault
Driver's side	Front pas- senger	Rear left	Rear right		
Limited function	Emergency operation function	Emergency operation function	Emergency operation function	 Short circuit of LIN da- tabus to earth or posi- tive 	 Check wiring and plug connections for short circuit according to the current flow diagram
Full func- tion	Emergency operation function	Emergency operation function	Emergency operation function	 No communication from CU for window control/driver door 	 Check wiring and plug connections for inter- ruption according to the current flow dia- gram
					 Replace CU for win- dow control/driver door
Full func- tion	Emergency operation function	Full function	Full function	 No communication from CU for window control/front passen- ger door 	 Check wiring and plug connections for inter- ruption according to the current flow dia- gram
					 Replace CU for win- dow control/front pas- senger door
Full func- tion	Full function	Emergency operation function	Full function	 No communication from CU for window control/rl door 	 Check wiring and plug connections for inter- ruption according to the current flow dia- gram
					 Replace CU for win- dow control/rl door
Full func- tion	Full function	Full function	Emergency operation function	 No communication from CU for window control/rr door 	 Check wiring and plug connections for interruption according to the current flow diagram Replace CU for window control/rr door

- Full function: The control unit performs all operations of window control completely.
- Limited function: The control unit performs all operations of the window control except automatic lift/lower lift mechanism.
- Emergency operation function: If there is no communication between the control unit and other control units, the window control only functions by means of a button on the relevant door without jamming protection. After 10 minutes the control unit switches over to "No operation".
- No operation: The control unit without operation and without communication with other control units. By resetting the control unit for more than 30 seconds, the control unit switches over to "emergency operation function".

Resetting of the relevant door control unit is performed by disconnecting the plug connection at the relevant control unit for more than 30 seconds (voltage interruption).

Resetting of all door control units is performed by disconnecting the vehicle battery for more than 30 seconds.



If the battery is disconnected and reconnected, carry out additional operations \Rightarrow Electrical System; Rep. Gr. 27.

Vehicle system test

Vehicle system test

Vehicle system test

Select function XX

Read measured value block

Reading measured value block

Reading measured value block

2

Enter display group number

08

1

Select function XX

HELP

Q

->

1

4

HELP

->

XXX

3

Reading measured value block with LIN

The measured value block is subdivided into 15 display groups. Each display group is subdivided into max. 4 dis-

Readout on display:

01

Enter function 08.

Readout on display:

- Confirm the entry with key [Q].

Readout on display:

- Select desired display group number and confirm entry with Q.

Readout on display:

The breakdown of the display contents in the individual display fields is available in the test table. Test table.

To switch to another display field: Press (\uparrow) or (\downarrow) .

End measured value block test:

- Press C key.

Readout on display:

Note

- After ending the function "Reading measured value block" interrogate the fault memory \Rightarrow Chap. 01-1.
- If the CAN databus is defective, the text "CU does not answer" will be displayed instead of "Read measured value block".

Test table with LIN databus cable

Display group 001

Display field	Readout on dis- play	Denomination	Rectifying fault
1	not fitted ¹⁾	Central switch for window lifter: switch for window lifter DS	 Check window lifter switch for correct fit- ting and tightness.
2	not fitted ¹⁾	WL thermo fuse DS	- Check relevant plug connections for cor-
3	not fitted ¹⁾	Child safety catch switch	rect fitting and tightness.
			 Check relevant cables according to valid current flow diagram ⇒ Current Flow Di- agrams, Electrical Fault Finding and Fit- ting Locations.
			 Perform a functional test.

¹⁾ Ignore.

Display field	Readout on display	Denomination	Rectifying fault
1	not fitted ¹⁾	Central switch for window lifter: switch for window lifter FPS	 Check window lifter switch for correct fit- ting and tightness.
2	not fitted ¹⁾	Central switch for window lifter: switch for window lifter RR	 Check relevant plug connections for correct fitting and tightness.
3	not fitted ¹⁾	Central switch for window lifter: switch for window lifter RL	 Check relevant cables according to valid current flow diagram ⇒ Current Flow Di- agrams, Electrical Fault Finding and Fit- ting Locations.
			 Perform a functional test.

¹⁾ Ignore.

Display group number 003

Display field	Readout on display	Denomination	Rectifying fault
1	not fitted ¹⁾	Mirror adjustment switch	 Check mirror adjustment switch for cor-
2	not fitted ¹⁾	Mirror selection switch	rect fitting and tightness.
3	not fitted ¹⁾	Mirror ratchet control DS	 Check relevant plug connections for cor- rect fitting and tightness
4	not fitted ¹⁾	Mirror heating	 Check relevant cables according to valid current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations. Perform a functional test.

¹⁾ Ignore.

Display group number 004

Display field	Readout on display	Denomination	Rectifying fault
1	not fitted ¹⁾	Window lifter switch: door FPS	 Check window lifter switch for correct fit- ting and tightness.
2	not fitted ¹⁾	WL thermo fuse PS	 Check relevant plug connections for cor-
3	not fitted ¹⁾	Mirror ratchet control PS	rect fitting and tightness.
			 Check relevant cables according to valid current flow diagram ⇒ Current Flow Di- agrams, Electrical Fault Finding and Fit- ting Locations.
			 Perform a functional test.

¹⁾ Ignore.

Display field	Readout on display	Denomination	Rectifying fault
1	not fitted ¹⁾	Window lifter switch: door RL	 Check window lifter switch for correct fit- ting and tightness.
2	not fitted ¹⁾	WL thermo fuse RL	- Check relevant plug connections for cor-
3	not fitted ¹⁾	Window lifter switch:	rect fitting and tightness.
			 Check relevant cables according to valid
4	not fitted ¹⁾	WL thermo fuse RR	current flow diagram \Rightarrow Current Flow Diagrams, Electrical Fault Finding and Fitting Locations.
			 Perform a functional test.

¹⁾ Ignore.

Display group number 006

Display field	Readout on display	Denomination	Rectifying fault
1	xx.x V	Onboard voltage, term. 30	 Visual inspection of the cable guide
2	term. 15 on term. 15 off no contact	Ignition, term. 15	 Check the correct fitting and tightness of the plug connections of the relevant cir- cuit while observing the display. If the dis-
3	activated deactivated no contact	S contact	play content does not change during activation, rectify fault or replace the rele- vant component.
4	0- 225 km/h (after 2 km/h) no measured value no contact	current speed	 Check relevant cables according to valid current flow diagram ⇒ Current Flow Di- agrams, Electrical Fault Finding and Fit- ting Locations.
			 Erase fault memory.
			 Perform a functional test.
			 Interrogate the fault memory again.

Display field	Readout on display	Denomination	Rectifying fault
1	open closed not activated.	Key switch DS	 Test wiring and plug connections accord- ing to current flow diagram.
2	open closed not activated.	Key switch PS	 Check lock cylinder for correct fitting and tightness. Check the correct fitting and tightness of
3	locking unlocking not activated implausible	Lock/Unlock button DS	the plug connections of the relevant cir- cuit while observing the display. If the dis- play content does not change during activation, rectify fault or replace the rele- vant component.
4	locking unlocking not activated implausible	Lock/Unlock button DS ¹⁾	 Erase fault memory. Perform a functional test. Interrogate the fault memory again.

¹⁾ Not fitted on FABIA.

Display group number 008

Display field	Readout on display	Denomination	Rectifying fault
1	not fitted	Engine hood contact	 Visual inspection of the cable guide
	open closed no contact		 Check switch for correct fitting and tight- ness.
2	locking unlocking not activated implausible	Key switch tailgate	 Check the correct fitting and tightness of the plug connections of the relevant cir- cuit while observing the display. If the dis- play content does not change during activation rectify fault or replace the relevant
3 0	open	Tailgate contact switch	vant component.
	no contact		 Check relevant cables according to valid current flow diagram ⇒ Current Flow Di- agrams, Electrical Fault Finding and Fit- ting Locations.
			 Erase fault memory.
			 Perform a functional test.
			 Interrogate the fault memory again.
4	yes no	Central locking thermo fuse ¹⁾	

¹⁾ yes- thermo fuse active (system disconnected), no- thermo fuse not active (system in operation).

Display field	Readout on display	Denomination	Rectifying fault
1	unlock lock safe not fitted	CL acknowledgement: door DS	 Visual inspection of the cable guide Check the correct fitting and tightness of the plug connections of the relevant cir- guit while chapting the diaplay. If the diaplay
2	unlock lock safe not fitted	CL acknowledgement: door PS	play content does not change during activation, rectify fault or replace the rele- vant component.
3	unlock lock safe not fitted	CL acknowledgement: door RL	 Check relevant cables according to valid current flow diagram ⇒ Current Flow Di- agrams, Electrical Fault Finding and Fit- ting Locations.
4	unlock lock safe not fitted	CL acknowledgement: door RR	 Erase fault memory. Perform a functional test. Interrogate the fault memory again.

Display group 010

Display field	Readout on display	Denomination	Rectifying fault
1	Door open door closed	Rotary latch switch: DS	 Visual inspection of the cable guide. Check retary latch switch for correct fit.
2	Door open door closed	Rotary latch switch: FPS	ting and tightness.
3	Door open door closed not fitted	Rotary latch switch: RL	 Check the correct fitting and tightness of the plug connections of the relevant cir- cuit while observing the display. If the dis- play content does not change during
4	Door open door closed	Rotary latch switch: RR	activation, rectify fault or replace the relevant component.
no	not fitted	-	 Check relevant cables according to valid current flow diagram ⇒ Current Flow Di- agrams, Electrical Fault Finding and Fit- ting Locations.
			 Erase fault memory.
			 Perform a functional test.
			 Interrogate the fault memory again.

Display field	Readout on display	Denomination	Rectifying fault
1	yes no	Immobilizer key detection	 Test wiring and plug connections accord- ing to current flow diagram.
	no contact		− Check electronic immobiliser ⇒ Electrical System Rep Gr. 90.
			 Re-initialise radio control via function 10 "Adaptation" ⇒ Chap. 01-4.
2	activated deactivated	Automatic lock/unlock switch (>15 km/h) ¹⁾	 Check switch for correct fitting and tight- ness.
3	on off	Sliding/tilting roof closed	- Check the correct fitting and tightness of
			cuit while observing the display. If the dis-
4	Two-wire single wire	Bus status	play content does not change during activation, rectify fault or replace the relevant component.
			 Check relevant cables according to valid current flow diagram ⇒ Current Flow Di- agrams, Electrical Fault Finding and Fit- ting Locations.
			 Erase fault memory.
			 Perform a functional test.
			 Interrogate the fault memory again.

¹⁾ Not fitted on FABIA.

Display group number 012

Display field	Readout on display	Denomination	Rectifying fault
1 to 4	No display ¹⁾		

¹⁾ Ignore.

Display **Readout on display** Denomination **Rectifying fault** field 1 If "N.O.K." O.K. Fixed code known ¹⁾ N.O.K. Key code is outside of reception range. no measured value Re-initialise radio control via function "10" 2 O.K. Code in reception range¹⁾ (Adaptation) \Rightarrow Chap. 01-4. N.O.K. no measured value If "no measured value" 3 O.K. Algorithm 1) - Battery in key discharged, replace bat-N.O.K. tery. no measured value Remote control defective, replace remote 4 0...4 Key number (key having just control. been activated)1) When activating a key initialised by radio control, the position in which the key was initialised is displayed here. If the tester displays "0", even though a radio control button was pressed, the key must be reinitialised via function "10" Adaptation \Rightarrow Chap. 01-4.

Display group number 013

 $^{1)}\,$ Only for vehicles with remote control and alarm function \Rightarrow 01-3 page 1

Display group number 014

Display field	Readout on display	Denomination	Rectifying fault
1	0000 ¹⁾	Remote control key buttons ²⁾ unlocking locking HDF Panic ³⁾	 If "N.O.K." Key code is outside of reception range. Re-initialise radio control via function "10" (Adaptation) ⇒ Chap. 01-4.
2	yes no not fitted	sensor for interior monitoring ²⁾	If "no measured value" — Battery in key discharged, replace bat-
3	on off not fitted	IRUE cut-off ²⁾⁴⁾	 tery. Remote control defective, replace remote control.
4	not fitted		

1) 0=not activated, 1=activated

 $^{2)}~$ Only for vehicles with remote control and alarm function \Rightarrow 01-3 page 1

³⁾ HDF - Tailgate remote unlocking button, panic-alarm by remote control; not fitted on FABIA.

4) Not fitted on FABIA

Display group number 015

Only for vehicles with remote control and alarm function $\Rightarrow 01-3$ page 1

On other vehicles the following is displayed on the display of the diagnostic device: Function unknown or cannot be carried out at the moment \rightarrow

Display field	Readout on display	Denomination	Rectifying fault
1	165535	Last alarm source	Only the last 4 activation zones of the anti-
2	165535	Penultimate alarm source	theft alarm system are displayed!
3	165535	3. last alarm source	\Rightarrow 01-3 page 17.
4	165535	4. last alarm source	

Possible alarm sources

Alarm sources	Alarm code
Rotary latch switch DD	1
Rotary latch switch PD	2
Rotary latch switch RL	4
Rotary latch switch RR	8
5. Tailgate contact switch	16
Read immobiliser	17
Interruption of the contact with the alarm system with independent power supply	18
Engine hood contact switch	32
Ignition, term. 15	64
Interior monitoring	128
No alarm	255

01-4 Adapting the convenience system (for all convenience system types)

Adjustment

Chan- nel numbe r	Operation	Page
00	Erasing initialised ignition keys with radio control	\Rightarrow 01-4 page 1
01	Adaptation of ignition keys with radio control, initialising new key	\Rightarrow 01-4 page 1
03	Auto-Lock: The vehicle is locked when a speed of 15 km/h is reached (activating or deactivating function)	\Rightarrow 01-4 page 3
04	Auto- Unlock: The vehicle is unlocked when the ignition key is removed from the ig- nition lock (activating or deactivating function)	\Rightarrow 01-4 page 3
05	The activation or deactivation of the interior monitoring is locked by pressing twice	\Rightarrow 01-4 page 4
06	Unlocking is confirmed by a horn tone	\Rightarrow 01-4 page 4
07	Locking is confirmed by a horn tone	\Rightarrow 01-4 page 4
08	Unlocking is confirmed by the indicator lights flashing	\Rightarrow 01-4 page 5
09	Locking is confirmed by the indicator lights flashing	\Rightarrow 01-4 page 5
10	Country specific setting for alarm activation with independent power supply	\Rightarrow 01-4 page 5

Adaptation of ignition keys with radio control

Perform a new key adaptation if the remote control has been pressed 200 times outside the reception range, or if a new key is added to the key set.

- 1. using an adapted ignition key
- 2. using vehicle system tester -V. A. G. 1552-

Adaptation using an initialised (adapted) ignition key

- Insert the mechanically operational (adapted) ignition key in the ignition lock.
- Switch on ignition.
- Lock the vehicle mechanically using the new key (to be initialised) and briefly press the radio buttons.
- Press the radio button on the key once again after an interval of more than one second (end key initialisation).
- The required adaptation process is confirmed by a brief horn tone.

Adaptation of ignition keys with vehicle system tester V.A.G. 1552 (erase new key and initialise)

i

Note

- Only on control units with radio control receiver ⇒ Chapter 01-1.
- The adaptation can be interrupted with key C of -V.A.G 1552-.

Always adapt all ignition keys, i.e. also the available ignition keys.

If new or additionally made ignition keys are required they must be adapted to the control electronics of the immobilizer \Rightarrow Rep. Gr. 96; Electrical System.

- Connect vehicle system tester -V.A.G 1552- with cable -V.A.G 1551/3- ⇒ Chap. 01-1.
- Insert the mechanically operational ignition key in the ignition lock.
- Select function 10 "Adaptation" and channel number 00.

Readout on display:

Confirm the entry with key Q.

Readout on display:

- Press \rightarrow key.

Readout on display:

Select function 10 "Adaptation" and channel number 01.

Readout on display:

The top line shows how many keys need to be initialised. Select number of the keys using keys (\uparrow) and (\downarrow) (maximum number of adapted keys is 8).

- Confirm the entry with key Q.

Readout on display: Number of radio control keys to be initialised.

- Confirm the entry with key Q.

Readout on display:

Confirm the entry with key Q.

Readout on display:

- Press a button once on each of the radio control keys to be initialised.
- Press \rightarrow key.
- Switch off ignition.

Adaptation			Q
Erase initi	alisation values?		
Adaptation			\rightarrow
Initialisat	ion values erased		
Vehicle sys	stem test		HELP
Select fund	tion XX		
Channel 1	Adaptation 1		\rightarrow
Кеу	1		- 1-↓
Channel 1	adjustment	3	Q
Keys	3		
Channel 1	adjustment	3	Q

Adaptation 3

Channel 1

Changed values are stored

 \rightarrow

All keys must be initialised during a single initialisation process.

When adapting all keys never exceed the 30 second limit.

The ignition key adaptation is automatically terminated if:

- The number of keys to be adapted has been reached.
- A button on a radio control key to be initialised has been pressed more than once.
- The allowed adaptation time of 30 seconds after switching on the ignition with the 2nd key has been exceeded (fault is stored).
- Select function 02 "Interrogate fault memory". The key adaptation has been successfully completed if no fault was stored.
- Perform a functional test of all radio control keys.

Auto-Lock: The vehicle is locked when a speed of 15 km/h is reached (activating or deactivating function)

Select function 10 "Adaptation" and channel number 03.

Readout on display:

- Select adaptation value with keys \bigcirc and \bigcirc .

Readout on display:

- Confirm the entry with key Q.

Readout on display:

- Confirm the entry with key Q.

Readout on display:

- Press \rightarrow key.

Readout on display:

Auto- Unlock: The vehicle is unlocked when the ignition key is removed from the ignition lock (activating or deactivating function)

Select function 10 "Adaptation" and channel number 04.

Readout on display:

- Select adaptation value with keys \bigcirc and \bigcirc .

Readout on display:

Confirm the entry with Q.

Readout on display:

Channel 3 Auto-Lock	Adaptation 0 off	-↑-↓-	\rightarrow
Channel 3 Auto-Lock	adjustment on	1 -↑-↓-	Q
Channel 3 Store chan	adjustment ged value?	1	Q
Channel 3 Changed va	Adaptation 1 lue stored		\rightarrow
Vehicle sy Select fun	stem test ction XX		HELP





01

 Confirm the entry with key [Q]. 	1		
Readout on display:		Channel 7 Adaptation 1 Changed value stored	\rightarrow
- Press \rightarrow key.			
Readout on display:		Vehicle system test Select function XX	HELP
Unlocking is confirmed by the indicator lights			

Channel 8

Channel 8

Channel 8

Channel 8

Channel 9

Channel 9

Channel 9

Channel 9

Store changed value?

Changed value stored

Vehicle system test

unlocked Flashing off

unlocked Flashing on

Store changed value?

Changed value stored

Vehicle system test

Select function XX

Select function XX

Flashing

Flashing on

locked

locked

Adaptation 0

off

adjustment

adjustment

Adaptation 1

Adaptation 0

adjustment

adjustment

Adaptation 1

Unlocking is confirmed by the indicator lights flashing

Select function 10 "Adaptation" and channel number 08.

Readout on display:

- Select adaptation value with keys (\uparrow) and (\downarrow) .

Readout on display:

- Confirm the entry with key Q.

Readout on display:

- Confirm the entry with key Q.

Readout on display:

- Press \rightarrow key.

Readout on display:

Locking is confirmed by the indicator lights flashing

Select function 10 "Adaptation" and channel number 09.

Readout on display:

- Select adaptation value with keys \bigcirc and \bigcirc .

Readout on display:

- Confirm the entry with key Q.

Readout on display:

- Confirm the entry with key Q.

Readout on display:

- Press \rightarrow key.

Readout on display:

Country specific setting for alarm activation with independent power supply

Select function 10 "Adaptation" and channel number 10.

Readout on display:

- Select adaptation value with keys (\uparrow) and (\downarrow) .

Readout on display:

►	Channel	10	Adaptation	n 1	→
	Setting	Alarm	horn rest of	Europe	-↑-↓-
►	Channel Setting	10 Alarm	adjustment horn Germany	2	Q -↑-↓-

01

-↑-↓-

Q

Q

-↑-↓-

 \rightarrow

HELP

-↑-↓-

-↑-↓-

 \rightarrow

HELP

Q

Q

1

1

1

1

Readout on display:

- Confirm the entry with key \bigcirc .

Readout on display:

- Confirm the entry with key \bigcirc .

Readout on display:

```
- Press \rightarrow key.
```

Readout on display:



01-5 Self-diagnosis for Airbag System I

Function of the airbag system

The airbag System comprises:

- Airbag control unit
- Sensors for side impact
- Driver airbag
- Front passenger airbag
- Driver and front passenger side airbags
- Belt tensioners for driver and front passenger
- Key switch for the front passenger seat airbag (special accessory for vehicles of model year 03) ➤

Depending on the vehicle equipment and control unit used \Rightarrow 01-5 page 5 the vehicles may be fitted with:

- electronically activated belt tensioners¹)
- mechanically activated belt tensioners²⁾

If programmed values are exceeded the airbag CU -J234- activates the release of the airbag units and belt tensioners.

The operation of the airbag units can be activated or blocked via the self-diagnosis \Rightarrow Chapter 01-7.

The switching on and off operations are undertaken by means of the key switch for the front passenger airbag if the vehicle is fitted with such a key switch.

If the airbag units on the front passenger side are deactivated, faults relating to airbag deactivation are stored in the fault memory and, after the airbag units are subsequently re-activated, the faults are automatically erased from the fault memory (only for vehicles which do not have a key switch for the front passenger airbags).

When igniting the driver and front passenger front airbags with belt tensioners the fault "crash data stored" is entered in the fault memory and the control unit must be replaced with a new original part.

If the control unit detects a side impact it ignites the side airbag unit and the belt tensioner on the impact side. The fault "crash data side airbag DS stored" or "crash data side airbag FPS stored" is entered in the fault memory. These data can be erased 3x at the most, after which the control unit must be replaced with a new original part.

If the vehicle is equipped with mechanical belt tensioners, these belt tensioners are ignited independently of the signal from the airbag CU -J234-.

Code the new CU when it is first put into service \Rightarrow 01-5 page 8.

¹⁾ Inspected by self-diagnosis; ignited by the airbag control unit -J234-.

²⁾ Not inspected by self-diagnosis; ignited independently of the airbag control unit -J234-.

If airbag units or belt tensioners are ignited, the airbag CU sends a crash signal to the electrical system control unit. When the airbag unit is released:

- all doors are unlocked
- the interior lighting is switched on
- the hazard warning system is activated
- the fuel pump is deactivated
- the electrical steering force assistance is switched off

Check the control unit signal using actuator diagnosis \Rightarrow 01-5 page 6.

The control unit of airbag -J234- is located in the front section of the centre console.

The control unit -J234- detects faults and malfunctions in the airbag system and stores them in the fault memory.

Faults due to a temporary line interruption or loose contact are also stored. These faults are displayed as sporadic faults "SP".

After the ignition is switched on, the airbag warning light -K75- comes on for about 4 seconds. If the warning light then flashes for a further 12 seconds this indicates that the front passenger airbag unit has been electronically blocked (only for vehicles which do not have a key switch for the front passenger airbag).

- If warning lamp -K75- does not go out after 4 seconds there is a fault. Interrogate the fault memory ⇒ 01-5 page 6. Erase fault memory after fault elimination ⇒ 01-5 page 7.
- If the warning lamp -K75- remains lit the airbag control unit -J234- is not coded. The airbag control unit -J234must be coded ⇒ 01-5 page 8.

Initiate self-diagnosis at the start of fault finding and interrogate the fault memory using the diagnostic device -V.A.G 1552-, -V.A.G 1551- or -VAS 5051-.

Faults in other control units may be stored (e.g. disconnected plug connections) during testing and fitting. This is why the fault memories of all control units must be interrogated and then erased.

Therefore it is necessary to:

- Enter address word 00 "Automatic Test Sequence".
 Vehicle system tester -V.A.G 1552- checks the fault memory of all vehicle systems.
- If the corresponding CU responds with its identification number, the number of faults and type or "No fault recognized" appears in the display.
- Eliminate possible faults and erase fault memory.

The following is displayed after completion of the test se quence: Vehicle system test Enter address word XX HELP
i Note

- The description which follows relates to the vehicle system tester -V.A.G 1552- using program card -6.0-(and higher version).
- The use of the device -VAS 5052- or -V.A.G 1551with program card -9.0- (and later version) is almost identical except for specific deviations (e.g. other display, possibility of using a printer).

Anger!

Perform a visual inspection of the cable guides only!

Do not perform any electrical continuity test or measurement on the ignition circuits!

Only check the cable guides with the ignition off!

Connect vehicle system tester -V.A.G 1552- and select address word "Airbag"

Special tools, test and measuring equipment and auxiliary items required

- Vehicle system tester -V.A.G 1552-
- Diagnostic cable -V.A.G 1551/3, 3A, 3B oder 3C-

Test preconditions for self-diagnosis

- All fuses must be OK in compliance with the current flow diagram.
- Battery voltage at least 9.0 volts

Procedure

- Open the storage tray -1- under the light switch -arrow-.
- Connect vehicle system tester -V.A.G 1552- with appropriate cable to the diagnostics connector.
- Switch on ignition.

Readout on display:

Note

If there is no display \Rightarrow Operating instructions of the vehicle system tester

- Enter address word 15 "Airbag".

Readout on display:

- Confirm the entry with key Q.

Readout on display:





Tester sends address word 15

i Note

- One of the following four displays will appear in the event of a communication set-up failure between vehicle system tester -V.A.G 1552- and the control unit.
- Press (HELP) key to display the possible fault causes.

Readout on display:

Readout on display:

Readout on display:

Readout on display:

i Note

- Possible fault causes in previous fault messages could be:
- Malfunctions occurred at the start of or during the program (external sources of interference).
- Interference in the wiring to the vehicle system tester, malfunctions in the vehicle system tester or faults in the vehicle communication wires.
- Serious faults in the relevant vehicle system, e.g. control unit destroyed.
- Inspect the connection of the vehicle system tester -V.A.G 1552-, also check the communication cable and the relevant vehicle system ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations.
- After removing the possible fault cause re-enter address word 15 for "Airbag" and confirm entry with key (Q).

Read-out on	display afte	er entering	address	word	15	"Air-
bag", e.g.:		-				

```
- Press \rightarrow key.
```

Readout on display:

Overview of selectable functions

Operation	Page
01 - Interrogating control unit ver-	\Rightarrow 01-5 page 5
02 - Interrogating fault memory	\Rightarrow 01-5 page 6
03 - Actuator diagnosis	\Rightarrow 01-5 page 6
05 - Erasing fault memory	\Rightarrow 01-5 page 7
06 - End output	\Rightarrow 01-5 page 8
07 - Code control unit	\Rightarrow 01-5 page 8
08 - Read measured value block	\Rightarrow Chapter 01-6
10 - Adaptation	\Rightarrow Chapter 01-7



Coding 12338	WSC XXXXX

02 AIRBAG VW5

0003 \rightarrow

6Q0909605 H

Vehicle system test	HELP
Select function XX	

Interrogating control unit version

 Connect vehicle system tester -V.A.G 1552- and select address word 15 "Airbag".

Readout on display:

- Select function 01 and confirm entry with Q.

Readout on display, e.g.:

- 6Q0909605 H = Part No. of the control unit ⇒ 01-5 page 5, overview of the airbag system control units
- 02 = Vehicle equipment-Version number
- AIRBAG VW5 = System denomination
- 0003 = Program status number (version)
- Coding 12338 = Code number
- WSC XXXXX = Workshop code
- − Press \rightarrow and end output \Rightarrow 01-5 page 8.

Overview of the airbag system control units

Vehicle equipment	Parts No. ¹⁾	Vehicle equipment- Version number
Driver airbag	6Q0 909 605 H ²⁾	01
belt tensioner (electrically ignited) side airbads	6Q0 909 605 H ³⁾	07
	1C0 909 605 H ⁴⁾	07
	1C0 909 605 K ⁵⁾	04
Driver and front passenger airbag	6Q0 909 605 H ²⁾	02
belt tensioner (electrically ignited) side airbads	6Q0 909 605 H ³⁾	08
	1C0 909 605 H ⁴⁾	08
	1C0 909 605 K ⁵⁾	05
Driver airbag	6Q0 909 605 H ²⁾	03
belt tensioner (electrically ignited)	6Q0 909 605 H ³⁾	09
	1C0 909 605 H ⁴⁾	09
	1C0 909 605 K ⁵⁾	06
Driver and front passenger airbag	6Q0 909 605 H ²⁾	04
belt tensioner (electrically ignited)	6Q0 909 605 H ³⁾	0A
	1C0 909 605 H ⁴⁾	0A
	1C0 909 605 K ⁵⁾	07
Driver airbag	6Q0 909 601 C ³⁾	01
belt tensioner (mechanically ignited)	1C0 909 601 C ⁴⁾	01
	1C0 909 601 A ⁵⁾	0T
Driver and front passenger airbag	6Q0 909 601 C ³⁾	02
belt tensioner (mechanically ignited)	1C0 909 601 C ⁴⁾	02
	1C0 909 601 A ⁵⁾	11
Crash sensor side airbag	6Q0 909 606	08

Vehicle system test Select function XX		HELP
6Q0909605 H Coding 12338	02 AIRBAG VW5	0003 \rightarrow WSC XXXXX

Vehicle equipment	Parts No. ¹⁾	Vehicle equipment- Version number
Driver and front passenger airbag belt tensioner (mechanically ignited) switch for front passenger airbags	1C0 909 601 A ⁵⁾	0S
Driver and front passenger airbag belt tensioner (mechanically ignited) side airbags switch for front passenger airbags	1C0 909 605 K ⁵⁾	01
Driver and front passenger airbag belt tensioner (electrically ignited) switch for front passenger airbags	1C0 909 605 K ⁵⁾	02

¹⁾ Current control unit version \Rightarrow electronic catalogue of original parts

²⁾ Valid for vehicles > 11.00

³⁾ Valid for vehicles 12.00 ➤ 02.01

⁴⁾ Valid for vehicles 03.01 \succ 07.02

⁵⁾ Valid for vehicles 08.02 \succ

Interrogating fault memory

Connect vehicle system tester -V.A.G 1552- and select address word 15 "Airbag" ⇒ 01-5 page 3.

Readout on display:

Select function 02 and confirm entry with Q.

The number of faults stored appears on the display.

Press key (\rightarrow) to display the stored faults consecutively.

- Rectify the faults by referring to the fault table \Rightarrow Chapter 01-6.

Note

- If anything else appears on the display ⇒ Operating instructions for vehicle system tester.
- If a fault is detected:
- ♦ 1. Remove fault
- 2. Erase fault memory (Function 05)
- 3. Interrogate fault memory (Function 02) again

If "No fault detected" is displayed, no fault was entered in the fault memory.

- Press \rightarrow key.

Readout on display:

- Ending output \Rightarrow 01-5 page 8.
- Switch off ignition and switch off vehicle system tester.

Actuator diagnosis

The "Crash data" are checked with the final control diagnosis for airbag system.



X faults detected

No fault detected!

Vehicle system test

Select function XX

 \rightarrow

 \rightarrow

HELP

If airbag units or belt tensioners are ignited, the airbag CU sends a crash signal to the electrical system control unit. When the airbag unit is released:

- all doors are unlocked
- the interior lighting is switched on
- the hazard warning system is activated
- the fuel pump is deactivated

The following conditions must be fulfilled to initiate the final control diagnosis:

- Vehicle locked
- Interior lighting switch must be on door contact position
- Hazard warning system deactivated
- Start engine

Readout on display:

- Enter function 03.
- Confirm the entry with key Q.

Readout on display:

- Confirm the entry with key Q.

Readout on display:

The airbag control unit -J234- sends a "crash signal" to the electrical system control unit. Once the signal has been sent:

- the engine stalls
- all doors are unlocked by central locking
- Interior lighting is activated
- The hazard warning system is activated

Readout on display:

- − Press \rightarrow and end output \Rightarrow 01-5 page 8.
- After completion of the "final control diagnosis" select address word 00 "automatic test sequence" and interrogate fault memory of all the control units and then erase (as faults may be stored during the test sequence)

Erasing fault memory

Conditions:

- Fault was eliminated.
- Fault memory was interrogated \Rightarrow 01-5 page 6.

Readout on display:

- Enter function 05.

Readout on display:

- Confirm the entry with key Q.



Actuator diagnosis END

Crash signal



 \rightarrow

 \rightarrow

 \rightarrow

Q

HELP

HELP

Q

(0 - 32767)

Vehicle system test

Vehicle system test

Select function XX

Vehicle system test

Vehicle system test

Vehicle system test

Select function XX

Vehicle system test

Coding control unit

Coding control unit

Enter code number XXXXX

Enter address word XX

06 End output

Caution!

The fault memory is erased

Fault memory was not interrogated



- Confirm the entry with key Q.

Readout on display:

confirm with Q.

Vehicle equipment	Parts No.	Control unit code number
Driver airbag	6Q0 909 605 H 01 ¹⁾	12337
side airbads	6Q0 909 605 H 07 ²⁾	12343
	1C0 909 605 H 07 ³⁾	12343
	1C0 909 605 K 04 ⁴⁾	12340

Readout on display:

- Press (\rightarrow) and end output \Rightarrow 01-5 page 8.

Note

01

- If the following message is displayed the test sequence is incorrect:
- Carefully follow the test sequence step by step: First interrogate the fault memory and then erase.

Ending output

Readout on display:

Enter function 06.

Readout on display:

Confirm the entry with key Q.

Readout on display:

- Switch off ignition.
- Disconnect plug connection from vehicle system tester -V.A.G 1552-.

Coding airbag control unit

Note

Coding is necessary if a new airbag control unit is used.

Conditions:

- Warning lamp for airbag -K75- flashes continuously.
- Airbag control unit -J234- was replaced. •

Readout on display:

Enter function 07.

Readout on display:

Enter code number in accordance with the table and

Vehicle equipment	Parts No.	Control unit code number
Driver and front passenger airbag	6Q0 909 605 H 02 ¹⁾	12338
belt tensioner (electrically ignited)	6Q0 909 605 H 08 ²⁾	12344
	1C0 909 605 H 08 ³⁾	12344
	1C0 909 605 K 05 ⁴⁾	12341
Driver airbag	6Q0 909 605 H 03 ¹⁾	12339
belt tensioner (electrically ignited)	6Q0 909 605 H 09 ²⁾	12345
	1C0 909 605 H 09 ³⁾	12345
	1C0 909 605 K 06 ⁴⁾	12342
Driver and front passenger airbag	6Q0 909 605 H 04 ¹⁾	12340
belt tensioner (electrically ignited)	6Q0 909 605 H 0A ²⁾	12353
	1C0 909 605 H 0A ³⁾	12353
	1C0 909 605 K 07 ⁴⁾	12343
Driver airbag	6Q0 909 601 C 01 ²⁾	12337
belt tensioner (mechanically ignited)	1C0 909 601 C 01 ³⁾	12337
	1C0 909 601 A 0T ⁴⁾	12372
Driver and front passenger airbag	6Q0 909 601 C 02 ²⁾	12338
belt tensioner (mechanically ignited)	1C0 909 601 C 02 ³⁾	12338
	1C0 909 601 A 11 ⁴⁾	12593
Driver and front passenger airbag belt tensioner (mechanically ignited) switch for front passenger airbags	1C0 909 601 A 0S ⁴⁾	12371
Driver and front passenger airbag belt tensioner (mechanically ignited) side airbags switch for front passenger airbags	1C0 909 605 K 01 ⁴⁾	12337
Driver and front passenger airbag belt tensioner (electrically ignited) switch for front passenger airbags	1C0 909 605 K 02 ⁴⁾	12338

¹⁾ Valid for vehicles > 11.00

²⁾ Valid for vehicles 12.00 \succ 02.01

³⁾ Valid for vehicles 03.01 \succ 07.02

⁴⁾ Valid for vehicles 08.02 ►

If the following message is displayed, the coding is done:

The control unit identification number, the control unit code number and the workshop code are displayed.

- Press \rightarrow key.

Readout on display:

- Ending output \Rightarrow 01-5 page 8.
- If the following message is displayed after entering the code number, the coding is incorrect:

In this case the control unit was not coded with the data required for the vehicle. Check whether the right control unit was fitted on the vehicle (compare part number and

6Q0909605 н	02 AIRBAG VW5	0003 \rightarrow	
Coding 12338		WSC XXXXX	

Vehicle system test Select function XX HELP

 \rightarrow

Fault Coding XXXXX not accepted character index), or whether possibly a wrong code was entered.

- Repeat coding.

If the control unit cannot be coded (correct control unit, correct code number) the control unit is defective.

Replace the control unit with a new original part and repeat coding.

01-6 Self-diagnosis for airbag system II

Check correct fitting and tightness of the wiring and plug connections with the ignition off (also possibly disconnect the plug connections).

Before disconnecting the airbag plug connections the mechanic must "electrically discharge himself"!

Do not perform any continuity tests or other measurements on the ignition circuits with the airbags and belt tensioners connected! Perform a visual inspection of the cable guides only!

Do not perform any electrical continuity tests or other measurements on the connectors for airbag or belt tensioner!

For rectifying faults or determining the cause of the fault, always end self-diagnosis and then restart it again before separating and re-connecting the individual airbag components!

Only the front passenger airbags can be locked \Rightarrow Chapter 01-7. Locking of the other airbag units and the belt tightener must only be undertaken in exceptional circumstances and then only by written permission of the PST department (Czech Republic) or the importer.

When checking the electrical wiring loom for airbag system for short-circuit or open circuit the airbag or belt tensioner plug connections must be separated and switch off the ignition and disconnect the battery to check the airbag control unit.

When removing and installing seat belts observe the safety instructions for work on belt tensioners \Rightarrow Chapter 69-1!

When removing and installing the airbag units observe the safety instructions for work on airbag units \Rightarrow Chapter 69-3!

If the battery earth strap is disconnected and connected, carry out additional operations ⇒ Electrical System; Rep. Gr. 27.

Special tools, test and measuring equipment and auxiliary items required

- Vehicle system tester -V.A.G 1552-
- Diagnostic cable -V.A.G 1551/3, 3A, 3B, oder 3C-
- Multimeter, e.g.-V.A.G 1715-
- Test box -VAS 5056- with adapter cable

Fault table

i Note

- All the faults which can be detected by the control unit -J234- and displayed on the vehicle system tester -V.A.G 1552-, are listed in the table according to the 5-digit fault code.
- SAE code, may be displayed on the right next to the fault number (e.g. 4214), ignore.
- If "Info in literature" appears in the display of the vehicle system tester, look for the text required in the fault table under the fault code.
- After repair always interrogate the fault memory using vehicle system tester -V.A.G 1552- and erase the memory.
- If parts are output as faulty: First check all cables and connectors to these components as well as the earth connections according to the Current Flow Diagram. Replace the component only if this test does not reveal any fault. This applies particularly if the fault is shown as sporadic (SP).

Readout on -V.A.G 1552 -		Possible cause of fault	Rectifying fault	
00000 no fault detected		If after repair "No fault detected" is displayed, the self-diagnosis is completed.		
00532 Supply voltage	Signal too high	 Supply voltage not o.k. Supply voltage must be in the region 7.821.1V 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 	
			 Checking voltage supply 	
		 Voltage regulator or AC genera- tor defective 	 Check voltage regulator or AC generator ⇒ Electrical System; Rep. Gr. 27 	
	Signal too low	Battery discharged or defective	 Replace battery or charge bat- tery 	
		 Voltage regulator or AC genera- tor defective 	 Check voltage regulator or AC generator ⇒ Electrical System; Rep. Gr. 27 	
00588 Ignition device for	Short circuit to positive	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the 	
airbag (driver's side) -N95-	Short circuit to earth		current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations	
	Resistance too	Driver-side airbag igniter -N95-	 Replace airbag unit driver side 	
	Resistance too		- Reading measured value block \Rightarrow 01-6 page 6	

Readout on -V.A.G 1552 -		Possible cause of fault	Rectifying fault		
00589 Ignition device 1 for airbag (front passenger side) -N131-	Short circuit to positive Short circuit to earth	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
	Resistance too great	 Ignition device for airbag front passenger side defective 	 Replace airbag unit front pas- senger side 		
	Resistance too small		- Reading measured value block \Rightarrow 01-6 page 6		
00591 Safety belt switch	Resistance too small	• Switch in belt buckle on the driv- er's side defective	- Replace the belt buckle on the driver's side \Rightarrow Chapter 69-1.		
side -E24-	Resistance too great	 Cables or plug connections defective Fault in the dash panel insert 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
			 — Replace dash panel insert ⇒ Electrical System; Rep. Gr. 90 		
00592 Safety belt switch	Resistance too small	 Belt buckle on the passenger side defective 	- Replace the belt buckle on the passenger side \Rightarrow Chapter 69-1.		
on the passenger side -E25-	Resistance too great	 Cables or plug connections defective Fault in the dash panel insert 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
			 — Replace dash panel insert ⇒ Electrical System; Rep. Gr. 90 		
00594 Airbag ignition cir- cuits	Short circuit	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
			- Reading measured value block \Rightarrow 01-6 page 6		
00595 Crash data stored		 Airbag units and belt tensioner ignited 	 Erasing fault memory 		
		ignited	 Replace airbag control unit -J234- 		
			 Replace airbag unit and all dam- aged components 		
00654 Ignition device	Short circuit to positive	 Cables or plug connections de- fective 	- Reading measured value block \Rightarrow 01-6 page 6		
(driver's side) -N153- ¹⁾	Short circuit to earth		 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
	Resistance too great	 Ignition device belt tensioner driver's side -N153- defective 	 Replace seat belt with belt ten- sioner on driver's side 		
	Resistance too small				

Readout on -V.A.G	6 1552 -	Possible cause of fault	Rectifying fault		
00655 Belt tensioner ig-	Short circuit to positive	Cables or plug connections de- fective	- Reading measured value block \Rightarrow 01-6 page 6		
niter (front pas- senger side) -N154- ¹⁾	Short circuit to earth		 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
	Resistance too great	 Ignition device belt tensioner front passenger's side -N154- defective 	 Replace seat belt with belt ten- sioner front passenger's side 		
	small				
01025 Fault lamp con- trol defective		 Fault lamp defective 	 Replace dash panel insert ⇒ Electrical System; Rep. Gr. 90 		
		 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
		 Airbag control unit -J234- defec- tive 	 Replace airbag control unit -J234- 		
01044 Control unit wrongly coded		 Missing or incorrect coding of the airbag control unit -J234- 	- Code control unit \Rightarrow Chapter 01- 5		
01214 Crash data belt		 Belt tensioner activated after crash 	 Replace seat belts with belt ten- sioners 		
			 Erasing fault memory 		
01217 Ignition device	Short circuit to positive	Cables or plug connections de- fective	 Check cables, plug connections and fuses in accordance with the 		
er's side -N199-	Short circuit to earth		current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations		
	Resistance too great	 Ignition device side airbag driv- er's side -N199- defective 	 Replace side airbag unit drivers' side 		
	Resistance too small		- Reading measured value block \Rightarrow 01-6 page 6		
01218 Ignition device	Short circuit to positive	Cables or plug connections de- fective	 Check cables, plug connections and fuses in accordance with the 		
side airbag front passenger side -N200-	Short circuit to earth		current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations		
	Resistance too great	Ignition device side airbag front passenger's side -N200- defec-	 Replace side airbag unit front passenger' side 		
	Resistance too small	ave	- Reading measured value block \Rightarrow 01-6 page 6		

Readout on -V.A.C	3 1552 -	Possible cause of fault	Rectifying fault		
01221 Crash sensor side airbag driver's sideG179-	undefined switch status Implausible signal Short circuit to positive Short circuit to	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
	defective	 Crash sensor side airbag driv- er's side -G179- defective 	 Replace crash sensor side air- bag driver's side -G179- 		
01222 Crash sen. Side airbag front pas- senger's side -G180-	undefined switch status Implausible signal Short circuit to positive	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
	Short circuit to earth defective	 Crash sensor side airbag front passenger's side -G180- defec- tive 	 Crash sensor side airbag front passenger's side -G180- defec- tive 		
01224 Control unit not suited to vehicle		 wrong control unit used 	 Fit control unit in compliance with electronic catalogue of origi- nal parts 		
01226 Crash data side airbag FPS stored		 Side airbag driver's side ignited 	 Erasing fault memory ²⁾ Replace airbag unit and all damaged components Replace³⁾ CU 		
01227 Crash data side airbag FPS stored		 Side airbag front passenger's side ignited 	 Erasing fault memory ²⁾ Replace airbag unit and all damaged components Replace³⁾ CU 		
01228 Hexagon head cap scr. Airbag deactivation, FPS -E224-	Open circuit Short circuit undefined switch	 Cables or plug connections defective 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
01280 Airbag front pas- senger side deac- tivated	status	 Airbag front passenger side de- activated 	 Blocking and activating airbag units ⇒ Chapter 01-7 		
01281 Airbag driver's side deactivated		 Airbag driver side deactivated 	 Blocking and activating airbag units ⇒ Chapter 01-7 		
01284 Side airbag driv- er's side deacti- vated		 Side airbag driver's side deacti- vated 	 Blocking and activating airbag units ⇒ Chapter 01-7 		

Readout on -V.A.G	6 1552 -	Possible cause of fault	Rectifying fault		
01285 Side airbag front passenger's side deactivated		 Side airbag front passenger's side deactivated 	 Blocking and activating airbag units ⇒ Chapter 01-7 		
01286 Belt tensioner driver's side deac- tivated		 Belt tensioner driver's side deac- tivated 	 Blocking and activating airbag units ⇒ Chapter 01-7 		
01287 Belt tensioner front passenger's side deactivated		 Belt tensioner front passenger's side deactivated 	 Blocking and activating airbag units ⇒ Chapter 01-7 		
01299 Data bus diagnos- tic interface -J533-	No communication	 Fault in CAN databus cables Electrical system control unit - J519- incorrect or defective 	 Test CAN databus lines ⇒ Electrical System; Rep. Gr. 90 Read out Gateway fault memory ⇒ Electrical System; Rep. Gr. 90 		
	No setting or in- correct setting				
01312 Data BUS drive	defective	 Cables or plug connections defective CAN databus using control units defective 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
01317 Control unit in dash panel insert -J258-	No communication	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
01578 Warning light for airbag off on the front passenger side -K145-	Open circuit	 Cables or plug connections de- fective 	 Check cables, plug connections and fuses in accordance with the current flow diagram ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		
	Short circuit to positive				
65535 136 ⁴⁾ no fault detected		If after repair "No fault detected" is di pleted.	splayed, the self-diagnosis is com-		
65535 000 ⁴⁾ Control unit defec- tive		 Cables or plug connections defective Control unit defective 	 Check wiring and plug connections ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations 		

¹⁾ Only applies for vehicles with electric belt tensioners.

²⁾ Erase fault memory (control unit may be used 3x at the most).

³⁾ The fault memory cannot be erased anymore (warning lamp -K75- flashes constantly).

⁴⁾ Index which shows the type of fault.

Reading measured value block

The measured value block is subdivided into 10 display groups. Each display group is subdivided into max. 4 display fields.

Readout on display:

- Enter function 08.

Readout on display:

- Confirm the entry with key Q.

Readout on display:

Select desired display group number for the measured value block and confirm entry with Q.

Readout on display:

The breakdown of the display contents in the individual display fields is available in the test table \Rightarrow 01-6 page 7.

End measured value block test:

- Press C key.

Readout on display:



- Interrogate the fault memory after ending the function "Reading measured value block" ⇒ Chapter 01-05.
- If the data bus drive (CAN BUS) is defective, the text "CU does not answer" will be displayed instead of "Read measured value block".

Test table

Display group 001

Reading measured value block 1 \rightarrow		⇐ Readout on display				
Text	Text	Text	Text			
1	2	3	4	\Leftarrow Display field	Specification	Analysis
				Ignition device for belt ten- sioner front passenger's side -N154- ¹⁾	correct	⇒ 01-6 page 8
			Ignition device for belt tensioner driver's side -N153-1)		correct	⇒ 01-6 page 8
Passenger-side front airbag			g igniter -N131-	correct	⇒ 01-6 page 8	
Driver-side front airbag igniter -N95-					correct	⇒ 01-6 page 8

¹⁾ Only applies for vehicles with electric belt tensioners.

Vehicle system test Select function XX	HELP
Vehicle system test 08 Read measured value block	Q
Read measured value block Enter display group number	Q xxx
Read measured value block 1 1 2 3	→ 4

Vehicle system test Select function XX HELP

Display field	Denomination	Readout on display	Rectifying fault
1	Driver-side front airbag igniter -N95-	correct	No fault.
		too small	 Visual inspection of the cable guide.
			 Check the correct fitting and tightness of the plug connections of the relevant circuit and again check on the display. If the display content changes to "correct", erase fault memory.
			 Disconnect the plug connection of the ignition device from the air- bag.
			If the display read-out changes to "too great":
			 Replace the airbag unit.
			If the display read-out stays on "too small":
			 Disconnect the plug connection from the restoring ring with slip ring.
			If the display read-out changes to "too great":
			 Replace restoring ring with slip ring.
			If the display read-out stays on "too small":
			 Check cables of cable harness for short circuit or open circuit, or replace cable harness.
		too great	 Disconnect the plug connection of the ignition device from the air- bag.
			- Fit the plug connection of the airbag igniter into the plug connection of the test box -VAS 5056- \Rightarrow 01-6 page 14.
			If the display read-out changes to "correct":
			 Replace the airbag unit.
			If the display read-out stays on "too great":
			 Disconnect the plug connection of the restoring ring with slip ring from the cable harness.
			 Connect adapter cable of test box -VAS 5056- to wiring loom of driver-side igniter in place of the contact ring with slip ring ⇒ 01-6 page 14.
			If the display read-out changes to "correct":
			 Replace restoring ring with slip ring.
			If the display read-out stays on "too great":
			 Press button on test box -VAS 5056
			If the display read-out stays on "too great":
			 Check cables of cable harness for short circuit or open circuit, or replace cable harness.

Display field	Denomination	Readout on display	Rectifying fault
2	Passenger-side front airbag ignit- er -N131-	correct	No fault.
		too small	 Visual inspection of the cable guide.
			 Check the correct fitting and tightness of the plug connections of the relevant circuit and again check on the display. If the display content changes to "correct", erase fault memory.
			 Separate plug connection from the airbag unit front passenger side from the cable harness.
			If the display read-out changes to "too great":
			 Replace the front passenger's airbag unit.
			If the display read-out stays on "too small":
			 Check cables of cable harness for short circuit or open circuit, or replace cable harness.
		too great	- Connect test box -VAS 5056- to wiring loom of passenger-side ignition circuit \Rightarrow 01-6 page 14.
			 Press button on test box -VAS 5056
			If the display read-out changes to "too small":
			 Replace the front passenger's airbag unit.
			If the display read-out stays on "too great":
			 Check cables of cable harness for short circuit or open circuit, or replace cable harness.
3	Ignition device for	too great	 Visual inspection of the cable guide.
	driver's side -N153-	too smail	 Check the correct fitting and tightness of the plug connections of the relevant circuit and again check on the display. If the display content changes to "correct", erase fault memory.
4	Ignition device for	too great	 Replace belt tensioner driver's side or front passenger side.
	front passenger's side -N154-	IOU SMAII	 Replace damaged airbag units or belt tensioners.

Display group number 003

Reading me	Reading measured value block 3 \rightarrow		\leftarrow Readout on display			
Text	Text	Text	Text			
1	2	3	4	\Leftarrow Display field	Specification	Analysis
				Switch for belt tensioner front passenger's side ¹⁾	activated deactivated not fitted	Ignore
			Switch for be	elt tensioner driver's side ¹⁾	activated deactivated not fitted	Ignore
		Sender for se	eat occupatior	n front passenger ¹⁾	activated deactivated not fitted	Ignore
	Voltage sup	oply			correct	⇒ 01-6 page 10

¹⁾ Not fitted on FABIA vehicles.

Display field	Denomination	Readout on display	Rectifying fault
1	Voltage supply	correct	No fault.
		too small too great	 Onboard voltage must be in the range 916 volts. Checking the onboard voltage of the vehicle ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations. Test alternator ⇒ Electrical System; Rep. Gr. 27. Check cables of cable harness for short circuit or open circuit, or replace cable harness ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations. Check the plug connections of the cable harness for correct fit and tightness ⇒ Current Flow Diagrams, Electrical Fault Finding and Fitting Locations.

Display group number 005

Reading measured value block 5 $\qquad \rightarrow$		\leftarrow Readout on display				
Text	Text	Text	Text			
1	2	3	4	\Leftarrow Display field	Specification	Analysis
				Ignition device for side air- bag rear passenger side ¹⁾	correct too small too great not fitted	Ignore
			Ignition devid er's side ¹⁾	ce for side airbag rear driv-	correct too small too great not fitted	Ignore
		Ignition devic -N200-	e for side airb	bag front passenger side	correct	⇒01-6 page 11
Ignition device for side airbag driver's si			ide -N199-	correct	⇒01-6 page 11	

¹⁾ Not fitted on FABIA vehicles.

Display field	Denomination	Readout on display	Rectifying fault
1	Ignition device for side airbag driv- er's side -N199-	correct	No fault.
		too small	 Visual inspection of the cable guide.
		too great not fitted	 Check the correct fitting and tightness of the plug connections of the relevant circuit and again check on the display. If the display content changes to "correct", erase fault memory.
			 Replace defective wiring or plug connections.
			 Replace defective side airbag unit drivers' side.
2	Ignition device for side airbag front passenger side -N200-	correct	No fault.
		too small too great not fitted	 Visual inspection of the cable guide.
			 Check the correct fitting and tightness of the plug connections of the relevant circuit and again check on the display. If the display content changes to "correct", erase fault memory.
			 Replace defective wiring or plug connections.
			 Replace defective side airbag unit front passenger's side.

Display group 010

Reading measured value block 10 $\qquad \rightarrow$			\leftarrow Readout on display			
Text	Text	Text				
1	2	3	4	\leftarrow Display field	Specification	Analysis
			Switch for th	e front passenger airbag -	on	⇒01-6
			condition of	the switch	off	page 12
		Switch for the front passenger airbag - switch off the			on	⇒01-6
		front passenger side airbag			off	page 12
Switch for the front passenger airbag - s				witch off the front passen-	on	⇒01-6
	ger front air	bag			off	page 12

Display field	Denomination	Readout on display	Rectifying fault
1	Switch for the front passenger airbag - switch off the front passen- ger front airbag	on off	No fault.
		too small too great not fitted	 Visual inspection of the cable guide. Check the correct fitting and tightness of the plug connections of the relevant circuit and again check on the display. If the display content changes to "On" or "Off", erase fault memory.
			If the display content does not change:
			- Replace defective wiring or plug connections.
			 Replace the defective switch for the front passenger airbag or the front airbag unit on the front passenger side.

Display field	Denomination	Readout on display	Rectifying fault
2	Switch for the front passenger airbag - switch off the front passen- ger side airbag	on off	No fault.
		too small	 Visual inspection of the cable guide.
		not fitted	 Check the correct fitting and tightness of the plug connections of the relevant circuit and again check on the display. If the display content changes to "On" or "Off", erase fault memory.
			If the display content does not change:
			 Replace defective wiring or plug connections.
			 Replace the defective switch for the front passenger airbag or the side airbag unit on the front passenger side.
3	Switch for the front passenger airbag - condition of the switch	on off	No fault.
		too small too great not fitted	 Visual inspection of the cable guide.
			 Check the correct fitting and tightness of the plug connections of the relevant circuit and again check on the display. If the display content changes to "On" or "Off", erase fault memory.
			If the display content does not change:
			 Replace defective wiring or plug connections.
			 Replace the defective switch for the front passenger airbag.

Parts inspection with test box -VAS 5056-

With test box -VAS 5056- and the corresponding adapter cable it is possible to inspect the individual components of the airbag system and thereby determine which components are indeed defective.

i Note

- Observe safety instructions for working with airbag units ⇒ 01-6 page 1 and also ⇒ Chapter 69-3.
- It is also possible to check the cable harness and plug connections in the airbag system without test box
 -VAS 5056-, in which case you must:
- Disconnect battery. If the battery earth strap is disconnected and connected, carry out additional operations
 ⇒ Electrical System; Rep. Gr. 27.
- Unplug the relevant airbag unit or belt tensioner.
- Unplug the cable harness of the airbag system from the airbag control unit -J234-.
- Check cable for open circuit or short-circuit, and possibly eliminate faults or replace cable harness.
- If no fault is found in the cable, replace the relevant airbag unit or belt tensioner.

- The cause of the display readout "too small" may be the incorrect function of the "short-circuit bridge" in the plug connection of the connected airbag unit.
- The cause of the display readout "too large" may be an incorrect plug connection, e.g., "contact resistance" in the plug connection of the connected airbag unit.

Connecting test box -VAS 5056- to front airbag driver's side

- Removing front airbag on the driver's side \Rightarrow Chapter 69-3.
- Removing the bottom trim panel for steering column control ⇒ Chapter 70-1.
- Connect the ignition plug for the airbag unit -1- to the test box plug -VAS 5056-.
- Disconnect the plug connection from the restoring ring with slip ring.
- Connect plug connection -3- of the adapter cable -4of the test box -VAS 5056- to the cable harness of the ignition circuit on the driver's side.
- Insert the plug connection of the airbag ignition device on the driver's side in the test box plug connection -VAS 5056-
- 2 Key
- 3 Plug connection of adapter cable -4- for connecting the plug connection from the restoring ring with the slip ring.
- 4 Adapter cable of test box -VAS 5056-

Connecting test box -VAS 5056- to front airbag passenger side

- Remove the glove compartment \Rightarrow Chapter 70-1.
- Disconnect the plug connection of the airbag unit on the front passenger's side.
- Connect plug connection -1- of the adapter cable -4of the test box -VAS 5056- to the cable harness of the ignition circuit on the front passenger's side.



- 1 Plug connection of the ignition circuit on the front passenger's side
- 2 Key
- 3 Test box -VAS 5056-
- 4 Adapter cable of test box -VAS 5056-



Edition 01.05

01-7 Deactivating and activating airbag units (adaptation)

The control unit for the airbag allows locking (deactivation) of all airbag units and the electronically actuated belt tightener.

Blocking passenger airbag units \Rightarrow 01-7 page 1.

Locking of the other airbag units and the belt tightener must only be undertaken in exceptional circumstances and then only by written permission of the PST department (Czech Republic) or the importer.

Deactivating and activating passengerside airbag units (adaptation)

It is then necessary to deactivate the front airbag unit if it is intended to use a child seat on the front passenger seat in which the child faces with its back to the direction of travel.

In certain countries, national legislation requires also deactivating the side airbags.

In certain countries, national legislation necessitates deactivating the front, if necessary the side airbags, no matter which type of child seat is used.

The front passenger airbag must be activated again as soon as the child seat is no longer required.

Deactivation of the passenger-side airbag units must comply with the legal requirements and regulations of the country concerned!

Pay attention to safety precautions regarding repairs to airbag system \Rightarrow Chapter 69-3!

For vehicles without a switch for airbags

Blocking is undertaken using the diagnostic device -V.A.G 1552- or -V.A.G 1551- or -VAS 5051-.

It is necessary to complete the "registration card for airbag systems/belt tensioner" each time the passengerside airbag unit is deactivated (switched off) and each time it is re-activated. The original document remains in the Service Department, the 1st copy is sent to the ŠKO-DA Service Department (Czech Republic) or to the Importer for registration (other countries), while the 2nd copy is handed over to the customer (inserted into Service Book).

The blocking and activation of the airbag unit on the front passenger's side must also be recorded in the Service Schedule.

The specified stickers must be affixed on the dash panel in the front passenter area above the "AIRBAG" logo during the entire period that the passenger-side airbag units are deactivated. These stickers are intended to draw the attention of the occupants to the fact that the passengerside airbag units have been deactivated.

For vehicles with a switch for airbags

For vehicles MY 03 \succ , which are fitted with the key switch for airbags, the switching on and off of the front airbag or also the side airbag on the front passenger side is performed by means of the key switch in the glove compartment. The driver can only operate the key switch with the ignition key when the ignition is switched off. Switching off the front and also possibly the side airbag on the front passenger side (if installed in the vehicle) is signalised by a warning lamp in the middle part of the dash panel.

Switching off of the airbags using the key switch does not have to be registered or entered into the service schedule.

Blocking and activating airbag units on the front passenger side (for vehicles without a switch for airbags)

Blocking is undertaken using the vehicle system tester -V.A.G 1552- in the function mode 10 "Adaptation" using the corresponding channels.

Channel number	Area to be adapted
01	Passenger-side front air- bag
03	Passenger side side airbag

After the front passenger side airbag units have been disabled, the warning light -K75- comes on at first for about 4 seconds after the ignition is switched on, and then flashes for about 12 seconds. This indicates that an ignition circuit is deactivated.

If the airbag units are deactivated, faults relating to airbag deactivation are stored in the fault memory and, after the airbag units are subsequently re-activated, the faults in the fault memory are automatically erased.

Deactivating front passenger airbags

Special tools, test and measuring equipment and auxiliary items required

- Cleaner part no. -D 009 401 04-
- Insulating tape
- Sticker "Front passenger airbag deactivated" S00.5800.31.xx
- Sticker "Front passenger side airbag deactivated" S00.5800.37.xx (only for Czech Republic)
- Connect vehicle system tester and select address word 15 "Airbag" ⇒ Chapter 01-5.

The airbag warning light (K75) comes on.

Readout on display:

Vehicle system test Select function XX Q

 Enter function 10 and continue with channel number 01. Channel 1 Adaptation 0 \rightarrow Readout on display: -↑-↓-FP airbag activated WSC XXXXX Select adaptation value "1" with keys (\uparrow) and (\downarrow) . Channel 1 adjustment 1 Q Readout on display: -↑-↓-FP airbag deactiv. WSC XXXXX - Confirm the entry with key Q. Channel 1 adjustment 1 Q Readout on display: Store changed value? - Confirm the entry with key Q. Channel 1 Adaptation 1 → Readout on display: Changed value stored - Press \rightarrow key. Vehicle system test Q Readout on display: Select function XX For the Czech Republic Enter function 10 and continue with channel number 03. Channel 3 Adaptation 0 Readout on display: -↑-↓-FP airbag activated WSC XXXXX Select adaptation value "1" with keys (\uparrow) and (\downarrow) . Channel 3 adjustment 1 0 Readout on display: WSC XXXXX -↑-↓-FP airbag deactiv. - Confirm the entry with key Q. adjustment Channel 3 1 0 Readout on display: Store changed value? - Confirm the entry with key Q. Adaptation 1 Channel 3 \rightarrow Readout on display: Changed value stored - Press \rightarrow key. Continued for all countries Vehicle system test Q Readout on display: Select function XX Enter function 06. Vehicle system test Q Readout on display: 06 End output - Confirm the entry with key Q. The airbag warning light (K75) goes out. Switch off ignition. Switch on ignition. HELP Vehicle system test Readout on display: Enter address word XX - Enter address word 15 ",Airbag" \Rightarrow Chapter 01-5. 0 Vehicle system test Readout on display: Select function XX - Enter function 02 "Interrogate fault memory" \Rightarrow Chapter 01-5. Check deactivation of airbag units: Passenger-side front airbag is switched off see fault No.

01280

01

Front passenger-side airbag is switched off see fault No. 01285

- If other faults appear in the display, they should be rectified according to the fault table \Rightarrow Chapter 01-6.

For the Czech Republic

- Separate plug connection for side airbag unit below front passenger seat.
- Attach plug connection for side airbag unit to the seat with adhesive tape.

Continued for all countries

- Remove the glove compartment \Rightarrow Chapter 70-1.
- Separate plug connection for front airbag unit.
- Attach plug connection for front airbag unit to the dash panel holder with adhesive tape.
- Install the glove compartment \Rightarrow Chapter 70-1.
- Clean surface for sticker with cleaner D 009 401 04 on airbag cover on front passenger side next to the "Airbag" logo.
- Stick on sticker "Front passenger airbag deactivated".

For the Czech Republic

 Affix sticker "Front passenger side airbag deactivated" next to the sticker "Front passenger airbag deactivated".

Continued for all countries

After the passenger-side airbag units have been deactivated, the warning light -K75- comes on at first for about 4 seconds after the ignition is switched on, and then flashes for about 12 seconds. This indicates that an ignition circuit is deactivated.

After the passenger-side airbag units have been deactivated (switched off), it is then necessary to complete the "registration card for airbag system/belt tensioners". The original document remains in the Service Department, the 1st copy is sent to the ŠKODA Service Department (Czech Republic) or to the Importer for registration (other countries), while the 2nd copy is handed over to the customer (inserted into Service Book).

The blocking of the airbag units on the front passenger's side must also be recorded in the Service Schedule.

Each desired airbag unit or safety belt can be blocked for the airbag system control unit. If there is an incorrect channel input 03 instead of 01, other areas are blokked and the error will only be determined by the vehicle system tester, not indicated by the warning light!

Activating front passenger airbag

For the Czech Republic

 Fit together plug connection for side airbag unit below front passenger seat.

Continued for all countries

- Remove the glove compartment \Rightarrow Chapter 70-1.
- Connect plug connection for front airbag unit.
- Install the glove compartment \Rightarrow Chapter 70-1.
- Connect vehicle system tester and select address word 15 "Airbag" ⇒ Chapter 01-5.

The airbag warning light -K75- comes on.

Readout on display:

Enter function 10 and continue with channel number 01.

Readout on display:

Select adaptation value "0" with keys (\uparrow) and (\downarrow) .

Readout on display:

- Confirm the entry with key Q.

Readout on display:

- Confirm the entry with key Q.

Readout on display:

- Press \rightarrow key.

Readout on display:

For the Czech Republic

Enter function 10 and continue with channel number 03.

Readout on display:

Select adaptation value "0" with keys (1) and \bigcirc .

Readout on display:

- Confirm the entry with key Q.

Readout on display:

- Confirm the entry with key Q.

Readout on display:

- Press \rightarrow key.

Continued for all countries

- Enter function 06.

Readout on display:

- Switch off ignition.

Vehicle system test Q Select function XX Channel 1 Adaptation 1 -↑-↓-FP airbag deactiv. WSC XXXXX adjustment ٥ Channel 1 0 FP airbag activated WSC XXXXX -↑-↓-Channel 1 adjustment 1 0 Store changed value? Channel 1 Adaptation 1 \rightarrow Changed value stored Vehicle system test Q

Select function XX



- Switch on ignition.

The airbag warning light -K75- comes on at first for about 4 seconds after switching on the ignition and must then go out. This indicates that the airbag unit on the front passenger side is activated and no fault is stored in the fault memory of the airbag system.

If the airbag warning light -K75- does not go out:

- Enter address word 15 "Airbag" \Rightarrow Chapter 01-5.
- − Enter function 02 "Interrogate fault memory" \Rightarrow Chapter 01-5.
- If faults appear in the display, they should be rectified according to the fault table \Rightarrow Chapter 01-6.

If the airbag warning light -K75- goes out:

- Switching off the vehicle system tester.
- Remove sticker "Front passenger airbag deactivated" from the dash panel and destroy it.

For the Czech Republic

 Remove sticker "Front passenger side airbag deactivated" from the dash panel and destroy it.

Continued for all countries

After the passenger-side airbag units have been activated (switched on), it is then necessary to complete the "registration card for airbag system/belt tensioners". The original document remains in the Service Department, the 1st copy is sent to the ŠKODA Service Department (Czech Republic) or to the Importer for registration (other countries), while the 2nd copy is handed over to the customer (inserted into Service Book).

The activation of the airbag units on the front passenger's side must also be recorded in the Service Schedule.

50 – Front body

50-1 Front body

Removing and installing lock carrier with component parts

1 - Lock carrier with attached parts

□ removing:

- − Detach Bowden wire \Rightarrow item 5 on the lock.
- Separate the electrical plug connections in the headlamp housing.
- Removing front bumper.
- Release screws \Rightarrow item 8 and remove bumper brackets \Rightarrow item 7.
- Loosen the radiator and condenser ⇒ item 4 from the lock carrier ⇒ item 1 by releasing the screws ⇒ item 6.

Secure the radiator and condenser in the engine compartment \Rightarrow Heating, Air conditioning.

Note

- Do not suspend the condenser to the wires.
- Do not fold the condenser wires.
- □ Installing:
- Centre the lock carrier with component parts on the frame side rails and between the wings.
- Readjust the headlights.
- 2 30 Nm
- 3 5 Nm
- 4 Radiator and condenser
- 5 Bowden wire
- 6 50 Nm
- 7 Bumper bracket
- 8 35 Nm



50-2 Front wing

Removing and installing the front wing

- 1 8 Nm
- 2 8 Nm
- 3 Wing
 - □ Removing:
 - Removing front bumper \Rightarrow Chap. 63-1.
 - Removing wheelhouse liner \Rightarrow Chap. 66-1.
 - Removing turn signal lamp
 ⇒ Electrical System;
 Rep. Gr. 94.
 - Release screws -1-.
 - Release screws -2- and remove wing.
 - □ Installing:

The installation occurs in reverse order.

Before screwing on the wing insert a galvanized washer under the screws at the impact points in the wheelhouse zone and pillar A, e.g. -AKL 381 035 50-.

4 - Turn signal lamp



55 – Bonnet, tailgate

55-1 Front bonnet

Summary of front bonnet components

1 - Front bonnet

- □ removing:
- Release screws \Rightarrow item 12 and remove bonnet.

Installing:
 Installation is carried out in the reverse order.

adjust \Rightarrow 55-1 page 3

2 - Radiator grill

- □ removing:
- Release screws \Rightarrow item 15 and \Rightarrow item 16.
- Unclip tension rod \Rightarrow item 4.
- □ Installing:

Installation is carried out in the reverse order.

- 3 3 Nm
- 4 Tension rod
- 5 Adjusting buffer
 - The height of the bonnet relatively to the wings can be adjusted by unscrewing or tightening the adjusting buffer.
- 6 Crutch
- 7 Retaining clip
- 8 Mounting bracket for crutch
- 9 Protective rubber covering for crutch
- 10 10 Nm
- 11 Bonnet hinge
- 12 22 Nm
- 13 Cooling-water tank seal

□ The sealing joint must be positioned in the middle of the wing -arrow-

14 - The protective film

 $\hfill\square$ serves as a support for the adjusting buffer \Rightarrow item 5

- 15 3 Nm
- 16 Screw



55

Summary of radiator grill components

- 1 Grid
- 2 Radiator grill frame
- 3 Trim strip
- 4 Bracket
- 5 Front bonnet
- 6 3 Nm
- 7 Radiator grill
 - □ removing:
 - Release screws \Rightarrow item 6 and remove radiator grill.
 - Disassemble ⇒ 55-1
 page 2 radiator grill in individual parts -1-, -2- and -3-
 - □ Installing:

the installation occurs in reverse order.

After installation radiator grill must be flush with the front bonnet



Disassembling and assembling radiator grill

Removing

- Radiator grill removed from vehicle
- Bore out rivets -arrows- and remove shield -1-.


- Release the bottom catch pegs of the trim strip with screwdriver in -direction of arrow A-.
- Release the top catch pegs of the trim strip with screwdriver in -direction of arrow B- and remove.



55

- Release the catch pegs -arrows- of the grid with screwdriver in -direction of arrow A- und remove grid from radiator grill frame.

Installing

Installation is carried out in the reverse order. Pay attention to the following.



Note

The individual parts of the radiator grill must be locked into one another. Rivet on shield to radiator grill (rivet with 4x10 mm - use drift).

Adjusting front bonnet

- The tailgate can be adjusted by means of the oval holes on the hinge.
- The height of the bonnet relatively to the wings can be adjusted with the adjusting buffers \Rightarrow item 5 in 55-1 page 1.
- After carrying out removal and installation or adjustment work, perform corrosion protection measures at the screws and hinge.

55-2 Tailgate

Removing the pressurized gas strut

- Open tailgate and support.
- Use a screwdriver to raise the locking element -2- and pull the gas strut off the angle bracket with ball stud -1-.

Note

- If the pressurized gas struts are to be re-used, do not remove the release pin fully from the ball socket -2-, otherwise it will be damaged.
- Prior to disposal degas the pressurized gas strut ⇒ 55-2 page 1.
- 1 Combination ball stud, 20 Nm
- 2 Ball socket
- 3 Pressurized gas strut
- 4 Screw
- 5 Angle bracket with ball stud

Degassing the pressurized gas strut

 Clamp the pressurized gas strut in the section -a = 50 mm- in the vice.

Grip this section only; otherwise, there is an accident risk!

 Saw open the strut cylinder in the first third of the total length of the cylinder, starting from the piston side edge.



- Wear safety goggles during the sawing procedure.
- Cover the sawn section with a cloth.
- Oil and cloth are disposed of in accordance with waste disposal requirements.



55



Summary of components of tailgate lock

1 - Grip strip

- □ Removing:
- Unclip trim panel of tailgate \Rightarrow Chap. 70-4.
- Remove the protective foil.
- Separate the electrical plug connection.
- Release the nuts \Rightarrow item 2.
- Take off grip strip.

□ Installing:

Installation is carried out in the reverse order.

2 - 10 Nm

3 - 22 Nm

4 - Securing nipple

□ when removing the Bowden cable, remove \Rightarrow item 7

5 - Latch striker

adjust with aid of oval holes

6 - Nut

is used for adjusting Bowden cable

7 - Bowden wire

 for remote release of tailgate from driver seat

8 - 22 Nm

9 - Lock

10 - Plug connection

for luggage compartment lighting



Summary of components of remote release

- 1 Remote release
 - □ for tailgate and fuel-tank lid
 - □ for removing, take off entrance strip \Rightarrow Chap. 68-4
- 2 10 Nm
- 3 Riveted nuts
- 4 Nut
- 5 Bowden wire for tailgate
 □ suspended in remote release
 ⇒ item 1
- 6 Bowden wire for fuel-tank lid
 □ suspended in remote release ⇒ item 1
- 7 Retaining clip



Removing and installing luggage compartment lid hinges (Sedan)

Removing



A second mechanic is required for removing and installing the luggage compartment lid hinges.

- Open luggage compartment lid and support it.
- Remove pressurized gas struts -2- \Rightarrow 55-2 page 1.
- Take off retaining clip together with wiring loom -1-(only at left holder).
- Unscrew fixing screws of hinge -3- (8 Nm) and place tailgate down.
- Remove bolts -4- (20 Nm) and take off hinges.

Installing

Installation is carried out in the reverse order.

Adjusting luggage compartment lid

- The tailgate can be adjusted by means of the oval holes in the hinges.
- After carrying out removal and installation or adjustment work, perform corrosion protection measures at the screws and hinges.



55-3 Fuel-tank lid unit

Summary of components of the fuel-tank lid unit

1 - Fuel-tank lid unit

- comprises the fuel-tank cap and rubber part
- □ Removing:
- Unscrew the fuel-tank cap.
- Activate the remote release to draw back the release rod.
- Release screw \Rightarrow item 2.
- Remove the rubber part from the fuel-tank filler tube and swivel out the fuel-tank lid unit from the side section.
- Installing:
- Fit the fuel-tank lid unit (rubber part folded back) hinge side first.
- Screw down the fuel-tank lid unit and mounting part ⇒ item 3.
- Screw down the fuel-tank cap.



For emergency opening pull the Bowden wire \Rightarrow item 6.

2 - 1.5 Nm

- 3 Mounting part
 - $\label{eq:section} \begin{gathered} \square & \text{is inserted in the side section} \\ \Rightarrow \text{item 8} \end{gathered}$
 - □ Removing:
 - Removing the fuel-tank lid unit \Rightarrow item 1.
 - Pull out the mounting part.
 - □ Installing:

The installation occurs in reverse order.

- 4 Drain hose
- 5 Seal
- 6 Bowden wire
- 7 Fuel-tank filler tube
- 8 Side section



Front doors/door internal parts/central locking 57

Front door 57-1

Summary of components



- 1 Door
- \Rightarrow 57-1 page 2 2 - Door handle
 - removing and installing \Rightarrow 57-1 page 6
- 3 Lock cylinder housing \Box removing \Rightarrow 57-1 page 5
- 4 Cap
- 5 20 Nm
- 6 Door trim panel removing and installing \Rightarrow Chapter 70-2
- 7 Securing knob removing and installing
- \Rightarrow 57-1 page 9 8 - Securing rod
- 9 Boot
- 10 20 Nm
- 11 Latch striker
- 12 Door lock removing and installing \Rightarrow 57-1 page 7
- 13 Bowden wire
- 14 Inside door control
- 15 72 Nm
- 16 30 Nm
- 17 Bottom door hinge
- 18 72 Nm
- 19 Hinge bolt
- 20 Window crank
 - \Box removing and installing \Rightarrow Chapter 70-2
- 21 7 Nm
 - for door arrester
- 22 30 Nm
- 23 Door arrester
 - □ removing:
 - Remove door trim panel from the bottom of pillar A.
 - Release screws \Rightarrow item 21 and \Rightarrow item 22.
 - Push door arrester inwards and remove from pillar A.
 - Installing:
 - Installation is carried out in the reverse order.
- 24 Top door hinge

Removing and installing the door

Removing

- Separate boot -3- from pillar A and disconnect the electrical plug connections.
- Release nuts -1- of hinge bolts -2-. Tightening torque: 30 Nm.
- Release screw -4- from the door arrester. Tightening torque: 30 Nm.
- Lift door out of the hinge bolts.

Installing

Installation is carried out in the reverse order.

Door adjustment

To correctly adjust the door release the door hinges on the pillars and door. Other adjusting measures, e.g. aligning the doors towards the top are ineffective. The door will drop again at the following overpressures.

- Release screws until the door can be shifted.
- The doors are correctly adjusted if they are at an overall equal distance from the door frame all round in the closed condition.

Removing and installing assembly carrier

i) Note

The assembly carrier is removed together with the door lock and window lifter.

Removing

- Remove door trim panel at front \Rightarrow Chapter 70-2.
- Removing the lock cylinder housing \Rightarrow 57-1 page 5.
- Release caps of holes -1-.
- Lower the door window until the fixing screws -2- of the door window can be reached.
- Release fixing screws.

Note

If this operation cannot be performed due to a failure at the power-window lifter, unscrew the power-window motor and then push the window down.

- Push door window upwards and secure (e.g. with adhesive tape).
- Separate the electrical plug connections.
- Release the cable harness from the assembly carrier and pull out the cable ducts.





On vehicles with convenience system disconnect the plug connection from the complete door lock.

For vehicles ➤ 11.03

- Release screws -arrows-. Release the assembly car- I rier from the door, raise and remove the door towards the hinge side from the door.

For vehicles 12.03 ►

 Bore out rivet heads -arrows-. Release the assembly carrier from the door, raise and remove the door towards the hinge side from the door.

1 Note

- After drilling open the rivets of the assembly carrier ٠ carefully remove the remaining rivets inside the doors, in order to avoid corrosion and noises.
- An den beschädigten Stellen Korrosionsschutz durchführen.



Installing

- Position the assembly carrier in the door.
- Attach wiring loom to assembly carrier and plug in all the plug connections.

For vehicles ➤ 11.03

- Insert all screws. First tighten screws -1- and -2-. Tightening torque 8 Nm.
- The remaining screws may be tightened in random sequence.

For vehicles 12.03 ►

- For hole -1- start riveting from the center pin.



When installing the assembly carrier use original replacement parts only (tear rivets).

For all vehicles



- Installing the lock cylinder housing \Rightarrow 57-1 page 6.
- Lower the door window until screws -4- are located behind holes -5-.
- Push door window -3- in the window run -arrow- and tighten the clamping jaws with screws -4- (10 Nm).

Further installation occurs in reverse order.

Removing and installing door window

Removing

- Remove assembly carrier \Rightarrow 57-1 page 2.
- Release inside window weatherseal from the flange.
- Remove window pane from the door.

Installing

Installation is carried out in the reverse order.

Removing and installing window lifter motor

i Note

Removing and installing the window lifter motor is identical for the front and rear door.

Removing

- Remove door trim panel at front \Rightarrow Chapter 70-2.
- Disconnect plug connection from window lifter motor.
- Remove fixing screws -arrows- for window lifter motor.

Installing

- Insert window lifter motor on flange.
- Tighten (3 Nm) fixing screws for window lifter motor.
- Mount the plug connection for window lifter motor.
- Installing door trim panel \Rightarrow Chapter 70-2.
- Switch ignition on and off.
- Switch on ignition again.
- Raise window to the top up to the stop and activate the window lifter switch for approx. a further 3 seconds. This completes the basic setting and simultaneously activates the automatic depth run function.



Summary of components of door handle and door lock

1 - Door lock

- the door lock can only be removed together with the assembly carrier
- □ removing and installing \Rightarrow 57-1 page 7

2 - Control cable

serves to release the lock

3 - Mounting bracket

screwed and riveted to the door lock

4 - Clamp

- □ removing:
- Door handle, lock cylinder housing and assembly carrier have been removed.
- Remove screw ⇒ item 5, push the clamp slightly back and remove from door.
- Installing:
- Installation is carried out in the reverse order.

5 - 5 Nm

- 6 Door handle with base
- 7 Cap
- **8 Lock cylinder housing** \Box removing \Rightarrow 57-1 page 5
- 9 Base
- 10 Screw
 - □ Releasing this screw unlocks



the catch of the lock cylinder housing \Rightarrow item 8 and the lock cylinder housing can then be removed from the clamp \Rightarrow item 4.

2 3

4

- Do not tighten screw without the lock cylinder housing being in position. The catch could fall inside the door.
- 11 3 Nm
 - ☐ for models 09.00 ➤

Removing and installing the lock cylinder housing

Removing

Release caps -1-.



57

5

 Pull and hold door handle -1-. Loosen screw -3- by about 3 turns. The lock cylinder housing is detached.

i Note

If the screw is unscrewed too far the catch may separate from the bracket and fall inside the door.

For models 09.00 ≻

- Remove locking screw \Rightarrow item 11 in 57-1 page 5.

Continued for all vehicles

 Pull out the lock cylinder housing with cap -2- from the clamp of the door handle at a right angle to the door.

Installing

Installation is carried out in the reverse order.



The new key has to be adapted after installing the new spare part \Rightarrow Rep. Gr. 96; Electrical System and \Rightarrow Chapter 01-4 page 1.

Removing and installing the door handle

Removing

- Removing the lock cylinder housing \Rightarrow 57-1 page 5.
- Unclip clip -1- from the door handle.
- Swivel door handle out of the door.

Installing

- Swivel door handle into the door.
- Hang assembly device -T10118- in the spring fixed -arrow A- to the door lock and hang the spring in the lock lever -arrow B-.







 Draw clip -1- in the plate opening and allow to clip into I door handle -2-.

Note

During assembly keep the door handle -2- pressed against the door panel.

Installing the lock cylinder housing \Rightarrow 57-1 page 5.



Note

Perform a functional check because the door cannot be opened if the adjustment is not accurate and the Bowden wire is not clipped on correctly.

Removing and installing the door lock

The door lock can only be removed together with the assembly carrier.

Removing

- Removing the lock cylinder housing \Rightarrow 57-1 page 5.
- Unclip clip -1- from the door handle -2-.
- Remove assembly carrier \Rightarrow 57-1 page 2.

- Separate boot -1- from pillar A and disconnect the electrical plug connections located behind it.







- Release screws -1- (20 Nm).
- Loosen cable harness and remove from door.



 Unclip catch peg -1- from holder -2- using a screwdriv- ► er and remove door lock -3- from its holder.



- Unclip securing rod -1-. To do so turn the door lock in the direction of the arrow.
- Unclip control cable -2-.
- Rotate the control cable nipple 90° and remove from lug.



Installing

- Pull out the control lever -1- in the direction of the arrow.
- Using a screwdriver tension the spring fitted to the door lock -2- in the direction of the arrow and hook the lock lever to the spring.

i Note

The lock is blocked once the control lever is hooked on. This prevents the Bowden cable from being "incorrectly" clipped at a later stage.

Further installation occurs in reverse order.

i Note

Perform a functional check because the door cannot be opened if the adjustment is not accurate and the Bowden wire is not clipped on correctly.

Removing and installing the locking button for locking rod

The locking knobs must be removed and installed as described below.

Failing to comply with these instructions may cause the locking rods to loosen or the support may become damaged.

Removing

- Turn the locking button 180° to the left.
- Remove the locking button from the top.

Installing

- Insert the locking button with the marking (dot on top side) on the locking rod into the vehicle.
- Press the locking button down onto the locking rod until the spline is at the level of the door trim panel.
- Subsequently, turn the locking button 180° to the left.

The locking button may project about 0 to 2 mm above door trim panel in the locked position.



Summary of components of front door seals

- 1 Outside window run
- 2 Outside channel seal
- 3 Clip
 inserted in the ouside door seal
- 4 Outside door seal
- 5 Front door
- 6 Inside channel seal
- 7 Inside window run
- 8 Inside door seal
 - The joining point must be approx. 300 mm -A- from the door bottom
 - □ fit the seal starting in the top radius of the door opening
- 9 Top door seal
 - □ adhesive



Central locking system



Note

The control motors of the front and rear doors central locking are component parts of the door locks and cannot be replaced individually.

- − Removing and installing door lock \Rightarrow 57-1 page 7, or \Rightarrow Chapter 58-1.
- After replacing the door lock with central locking motor, interrogate the fault memory and erase
 ⇒ Chapter 01-1, Self-Diagnosis for Convenience System I.

58 – Rear doors/door internal parts

58-1 Rear door

Summary of components

1 - Door

- □ removing and installing \Rightarrow 58-1 page 2
- 2 Door handle
- 3 Housing
 - $\label{eq:removing} \square \mbox{ removing} \Rightarrow 58-1 \mbox{ page 3,} \\ \mbox{ removing door handle}$
- 4 20 Nm
- 5 Door trim panel
- 6 Securing knob
 □ removing and installing
 ⇒ Chapter 57-1
- 7 Securing rod
- 8 Elbow lever
- 9 Securing rod
- 10 20 Nm
- 11 Latch striker
- 12 Door lock
 - $\square removing and installing$ $<math>\Rightarrow 58-1 page 5$
- 13 Bowden wire
- 14 Inside door control
- 15 72 Nm
- 16 Hinge bolt
- 17 Bottom door hinge
- 18 72 Nm
- 19 Door arrester
- 20 30 Nm
 - for door arrester
- 21 Window crank
 - $\hfill \hfill \hfill$
- 22 30 Nm
- 23 Top door hinge
 - □ hinge divided in two parts



Removing and installing the door

Removing

- Disconnect multiple-plug connection under the rubber sleeve of pillar B.
- Unscrew nuts \Rightarrow item 22 in 58-1 page 1 of the hinge bolts.

Tightening torque: 30 Nm.

- Release screw \Rightarrow item 20 in 58-1 page 1 on the door arrester.

Tightening torque: 30 Nm.

- Lift door out of the hinge bolts.

Installing

Installation is carried out in the reverse order.

Door adjustment

To correctly adjust the door release the door hinges on the pillars and door. Other adjusting measures, e.g. aligning the doors towards the top are ineffective. The door will drop again at the following overpressures.

- Release screws until the door can be shifted.
- The doors are correctly adjusted if they are at an overall equal distance from the door frame all round in the closed condition.

Summary of components of door handle and door lock

1 - Door lock

- the door lock can only be removed together with the assembly carrier
- □ removing and installing \Rightarrow 58-1 page 5

2 - Control cable

□ serves to release the lock

3 - Mounting bracket

screwed and riveted to the door lock

4 - Clamp

- □ removing
- Door handle, lock cylinder housing and assembly carrier have been removed.
- Remove screw ⇒ item 5, push the clamp slightly back and remove from door.
- □ Installing:
- Installation is carried out in the reverse order.

5 - 5 Nm

6 - Door handle

- □ removing and installing \Rightarrow 58-1 page 3
- 7 Cap

8 - Housing

- □ removing \Rightarrow 58-1 page 3, removing door handle
- 9 Base

10 - Screw

- □ Loosening this screw releases the catch on the lock cylinder housing \Rightarrow item 8, and it can then be taken out of the clamp \Rightarrow item 4.
- □ The screw should not be released without the lock cylinder housing in place. The catch ring could fall inside the door.

Removing and installing the door handle

Removing

- Remove door seal -1- around the door handle.
- Pull and hold the door handle -2- in the direction of the arrow. Loosen the screw -4- by approximately 3 turns using a screwdriver. The housing is detached.



If the screw is unscrewed too far the catch ring may separate from the bracket and fall inside the door.

 Pull out housing -3- from the clamp of the door handle at a right angle to the door.





- Unclip clip -1- from the door handle.
- Swivel door handle out of the door.



Installing

- Swivel door handle into the door.
- Hang assembly device -T10118- in the spring fixed -arrow A- to the door lock and hang the spring in the lock lever -arrow B-.

 Draw clip -1- in the plate opening and clip into door handle -2-.

i Note

During assembly keep the door handle -2- pressed against the door panel.

Install the housing in the same way as you installed the locking cylinder housing \Rightarrow Chapter 57-1.

• It is absolutely necessary to perform a functional check because the door cannot be opened if the adjustment is not accurate and if the Bowden wire is not clipped on correctly.



Removing and installing the door lock

The window lifter, door lock and loudspeaker are fitted to the assembly carrier.

The door lock can only be removed together with the assembly carrier.

The assembly carrier can only be removed if the door window is detached from the window lifter. To this end lower the door window down to the mounting hole in the assembly carrier and remove the straddling dowel.

One must first determine the exact cause of the fault should it be impossible to lower the door window using power-window control.

To do so use vehicle system tester -V.A.G 1552- to interrogate the fault memory of the convenience system (address word 46) \Rightarrow Chapter 01-1.

In the event of an electrical fault, first correct that fault.

Should it appear that the window lifter motor is the cause of the fault, unscrew it from the assembly carrier.

Removing

- Removing the door handle \Rightarrow 58-1 page 3.
- Unscrew bolts -1-.
- Remove assembly carrier \Rightarrow 58-1 page 6 and take out together with the door lock.
- Remove door lock from assembly carrier.

Installing

- Pull out the control lever -1- in the direction of the arrow.
- Using a screwdriver tension the spring fitted to the door lock -2- in the direction of the arrow and hook the lock lever to the spring.



Note

The lock is blocked once the control lever is hooked on. This prevents the Bowden cable from being "incorrectly" clipped at a later stage.

- Further installation occurs in reverse order.



Note

Perform a functional check because the door cannot be opened if the adjustment is not accurate and the Bowden wire is not clipped on correctly.





Removing and installing assembly carrier

Removing

i 1

Note

- The assembly carrier is removed together with the door lock.
- Removing and installing window lifter motor ⇒ Chapter 57-1.
- Removing rear door trim panel \Rightarrow Chapter 70-2.
- Removing the door handle \Rightarrow 58-1 page 3.
- Release cap -1-.
- Lower door window until adjusting pin -2- and straddling dowel -3- can be reached in the window lifter opening.

i Note

If this operation cannot be performed due to a failure at the power-window lifter, unscrew the power-window motor and then push the window down.

- Screw an M5 screw (approximately 70 mm long) into the adjusting pin -2- and remove from straddling dowel -3-.
- Now screw an M8 screw (approximately 80 mm long) into the straddling dowel -3-.

i Note

Do not use excessive force when screwing the screw into the straddling dowel as it may fall into the door.

- Withdraw the straddling dowel from the window lifter guide and hence from the door window pane.
- Push the door window up and secure with adhesive tape.

For vehicles ► 11.03

Release screws -arrows-.

For vehicles 12.03 ►

- Bore out rivet heads -arrows-.



- After drilling open the rivets of the assembly carrier carefully remove the remaining rivets inside the doors, in order to avoid corrosion and noises.
- Carry out protection against corrosion on both damaged points.

For all vehicles

- Separate the electrical plug connections.





- Subsequently release the wiring loom from the inside panel of the door and remove ducts.
- Disconnect the plug connection from the complete door lock (on vehicles with convenience system).
- Separate the assembly carrier from the door, at the top, lift and remove towards the hinge.

Installing

- Position the assembly carrier in the door.
- Attach wiring loom to assembly carrier and plug in all the plug connections.

For vehicles ➤ 11.03

- Insert all screws. First tighten screws -1- and -2-. Tightening torque 8 Nm.
- Tighten the remaining screws.

For vehicles 12.03 ►

- For hole -1- start riveting from the center pin.

Note

When installing the assembly carrier use original replacement parts only (tear rivets).

For all vehicles

- Installing the door handle \Rightarrow 58-1 page 4.
- Lower window in the slot of the window lifter guide.
- Insert the straddling dowel and adjusting pin in the window.

Note

When securing the window pane in the power-window lift er observe the fitting position of the straddling dowel -1and the straddle pin -3-. The straddling dowel -1- and the straddle pin -3- must be on the same line with the lug -2-.

- Gently tap by hand the top of the pane to lock the pane into the window lifter.
- Install rear door trim panel \Rightarrow Chapter 70-2.

i Note

Perform a functional check because the door cannot be opened if the adjustment is not accurate and the Bowden wire is not clipped on correctly.

Removing and installing door window

Removing

- Remove assembly carrier \Rightarrow 58-1 page 6.
- Lower window.
- Remove inside window run seal from frame.





- Carefully remove window.

Installing

- Insert window in frame.
- Pull seal onto the flange.
- Insert window into the seal slots and fix in place with adhesive tape.
- Install assembly carrier \Rightarrow 58-1 page 6.

Summary of components of door seals

1 - Top door seal

- □ adhesive
- 2 Inside door seal
 - The joining point must be approx. 300 mm -A- from the door bottom
- 3 complete fixed window pane
- 4 Rear door
- 5 Outside door seal
 - □ secured with clips
- 6 Door seal
- secured with clips
- 7 Inside channel seal
- 8 Outside channel seal
- 9 Inside window run
- 10 Rear door window
- 11 Outside window run



58-2 Rear door (Praktik)

Rear door Summary of components

i Note

- The door at the rear on the left must not be opened in some countries due to legal requirements (the lock remains permanently in the locked position).
- The door trim panel will be destroyed if the locked door at the rear on the left is opened.

1 - Fixed window pane

- □ removing:
- Removing cover \Rightarrow item 12.
- Remove the outer \Rightarrow item 2 channel seal.
- Remove the inner \Rightarrow item 6 channel seal.
- Release screw \Rightarrow item 5.
- Remove the window pane.

Installing:
 Installation is carried out in the reverse order.

2 - Outside channel seal

3 - Door

- □ removing and installing ⇒ Chapter 58-1
- 4 Inside window run
- 5 3.5 Nm
- 6 Inside channel seal
- 7 Engine-gearbox assembly carrier

□ removing:

- Remove door trim panel \Rightarrow Chapter 70-2.
- Unclip securing rod.
- Release screws \Rightarrow item 8.
- Remove the assembly carrier.
- □ Installing:

Installation is carried out in the reverse order.

- 8 8 Nm
- 9 8 Nm
- 10 Holding bracket for the cover
- 11 Fit retainer
- 12 Cover
 - □ removing:
 - Remove assembly carrier \Rightarrow item 7.
 - Release screw \Rightarrow item 9.
 - Remove the holding bracket \Rightarrow item 10 with stop \Rightarrow item 11 and let the cover lower downwards.
 - Remove the cover.



Installing:

Installation is carried out in the reverse order.

Removing and installing the door lock

Removing

- Remove assembly carrier \Rightarrow item 7 in 58-2 page 1.
- Remove the door grip \Rightarrow Chapter 58-1.
- Release screws -1- (20 Nm).
- Remove the door lock.

Installing

Installation is carried out in the reverse order.



Sliding/tilting roof 60

Sliding/tilting roof with glass panel **60-1**

Summary of components of sliding/tilting roof with glass panel

- 1 Glass panel for sliding/tilting roof (single-layer safety glass)
- 2 Gasket
- 3 Sun screen
- 4 Guard top
- 5 Guard bottom
- 6 Rain groove
 - □ remove together with sliding block guide \Rightarrow item 20
- 7 Cap
 - stick on with glue -AKL 450 005 05-
- 8 Screw

9 - Assembly unit

- □ U-frame (with guiding groove), for the guiding groove use spray -G 052 778- otherwise the correct functions are not guaranteed
- 10 Guide part
- 11 Spring
- 12 E-drive
 - Check setting for the E-drive (0 position) \Rightarrow 60-1 page 7
- 13 Screw
- 14 Interior lamp
- 15 Preselection control
- 16 E-drive cover □ Key for emergency activation is fixed to the cover
- 17 Cover
- 18 Draft deflector
- 19 4.5 Nm
- 20 Sliding-block guide
- 21 Sliding block with control cable
- 22 Bracket

Removing and installing the glass roof

Removing

Slide sun screen backwards.



1

2

3

4

5

6

8

- Tilt sliding/tilting roof.
- Unclip bottom trim strip -1- and pull forwards away from the roof frame.
- Unclip top trim strip -2- at front and middle and unhook at rear.

- Release screws -1-.
- Remove glass roof from the top.

Installing

Glass roof must be fitted in the "0" position \Rightarrow 60-1 page 7.



- The sliding-block guide bolt axis must be flush with the marking on the sliding-block guide -arrow-.
- If the "sliding-block guide axis" is not flush with the sliding-block guide then parallel running must be adjusted for \Rightarrow 60-1 page 8.



60

 Insert glass panel for sliding/tilting roof from the top and slightly tighten the fixing screws -1-.

i Note

Adjust the pane height before tightening up the fixing screws.



- Setting the glass roof height \Rightarrow 60-1 page 3.
- Tighten glass roof screws -1-. Tightening torque -4.5
 Nm.



- Hook on top trim strip -2- at rear and middle and clip on at front.
- Slide the bottom trim strip -1- towards -direction of arrow- the rear and hook on in front area.

Glass roof pane for sliding/tilting roof (height adjustment)

• The glass roof pane setting must be correct.



- Tilt sliding/tilting roof.
- Slide sun screen backwards.
- Unclip bottom trim strip -1- at rear -arrow- and pull for- ▶ wards away from the roof frame.
- Unclip top trim strip -2- at front and middle and unhook at rear.



Release screws -1-.

- Close sliding/tilting roof, open and close again (this sequence must be respected to obtain a correct setting).
- Set the glass panel height at front and rear on both sides:

Front roof pane adjustment:

- -a = 0...1 mm lower than the roof
- -Arrow- = direction of travel



Rear roof panel adjustment:

-b- = 0...1 mm higher than roof

-Arrow- = direction of travel

- Tighten glass panel screws. Tightening torque 4.5 Nm.
- Adjust the left and right side symmetrically.



Inspect the height adjustment by opening and closing the sliding/tilting roof.

- Tilt sliding/tilting roof.
- Hook on top trim strip -2- at rear and middle and clip
 on at front.
- Slide the bottom trim strip -1- towards -direction of arrow- the rear and hook on in front area.





Replacing the glass roof pane seal

- Remove glass panel for sliding/tilting roof \Rightarrow 60-1 page 1.
- Remove seal -1- from glass roof pane -2-.
- Press new seal into glass roof pane.

i Note

For easier mounting coat seal with lubricant (e.g. soap water).



Removing and installing sun screen

Removing

- Remove glass panel for sliding/tilting roof \Rightarrow 60-1 page 1.
- For easier mounting slide sun screen slightly backwards.
- Lever off front and rear slide with a screwdriver -arrow-.
- Remove sun screen -1- from the top.

Installing

Installation is carried out in the reverse order.

Removing and installing E-drive

🚺 Note

The E-drive can only be removed and installed when the sliding/tilting roof closed.

Removing

- Using a wedge -3409- remove the E-drive cover -1-.
- Disconnect the plug connection of the E-drive.
- Remove the automatic preselection mechanism \Rightarrow 60-1 page 7.
- Release screws -arrows- and remove drive.

Installing

- Installation is carried out in the reverse order.

i Note

- Always replace the drive screws with new ones (3.5 Nm).
- Adapt drive \Rightarrow 60-1 page 8.







Removing automatic preselection mechanism

- Using a wedge -3409- remove the E-drive cover -1-.

- Remove light covering -1- in -direction of arrow-.



- Remove screws -arrows- and remove lamp with con- I trol.
- Disconnect the control plug connection and remove control from lamp.

Installing

- Installation is carried out in the reverse order.

Setting E-drive (0 position)

 Setting of the "0 position" may be necessary if the drive was not removed in the "0 position" or if the sliding/tilting roof was opened or closed using the emergency operation mechanism.

Drive removed and wiring connected.

- Turn the rotary switch of the automatic preselection mechanism to select "roof tilted".
- Turn the rotary switch of the automatic preselection mechanism to "roof closed".
- Turn the rotary switch of the automatic preselection mechanism to "roof opened".



II.

nm

3409

S60-0054

- Turn the rotary switch of the automatic preselection mechanism to "roof closed".
- In "0 position" install the drive with the sliding/tilting roof closed.

"0 position" is marked in the window -arrow A- by the re- ► cess on the drive pinion -arrow B-.

Adapting drive

Switch on ignition.

For vehicles of model year 03 ►



- Using a wedge -3409- remove the E-drive cover -1-.
- Pull out the plug for the E-driver at the roof opening.
- Plug in the plug for the E-drive.

For all vehicles

- Close sliding/tilting roof.
- Press automatic preselection mechanism in position "roof closed" for at least 3 seconds; the basic setting of the drive is performed.

Inspecting parellel run

- Remove glass panel for sliding/tilting roof \Rightarrow 60-1 page 1.

The sliding-block guide bolt axis must be flush with the marking on the sliding-block guide -arrow-.

Setting parallel run

- Half open glass panel for sliding/tilting roof.
- Remove E-drive \Rightarrow 60-1 page 6.
- Manually slide glass panel for sliding/tilting roof backwards up to the stop.
- Installing E-drive \Rightarrow 60-1 page 6.




Removing and installing assembly unit

Note

Two mechanics are required to remove and install the assembly unit.

Removing

- Remove the automatic preselection mechanism \Rightarrow 60-1 page 7.
- Removing moulded headliner \Rightarrow Chapter 70-5.
- Pull off water drain hoses -arrows- from assembly unit
 -1-.

i Note

The E-drive -3- need not be removed from the assembly unit -1-.

 Screw out screws -2- and remove assembly unit from the vehicle.

Installing

- Insert assembly unit -1- in the roof.
- Align the assembly unit -1- in the roof frame and secure with screws -2-, whereby the tightening sequence for the screws should be observed. Tightening torque: 8 Nm.
- When tightening the screws -2- of the E-drive -3- proceed towards rear.
- Fitting water drain hoses -arrows-.
- Installing moulded headliner \Rightarrow Chapter 70-5.
- Installing E-drive \Rightarrow 60-1 page 6.
- Install the automatic preselection mechanism \Rightarrow 60-1 page 7.

Cleaning the water drain hoses





Front water drain hoses

The front water drain hoses -1- run in the A pillars and terminate between the door and pillar A. Clean from top end of the water drain hose.

- 1 Front water drain hoses
- 2 Water drain valve



For cleaning use a 2300 mm long speedometer Bowden wire as a tool.



Rear water drain hoses

The rear water drain hoses -1- run in the C pillars and terminate at the side behind the bumper. Clean from the bottom hose end. The hoses must not be removed.

- 1 Water drain hoses
- 2 Water drain valve

Note

For cleaning use a 2300 mm long speedometer Bowden wire as a tool.



63 – Bumpers

63-1 Front bumper

Summary of components on the front bumper

1 - Nut

2 - Guide part

- supports the bumper corner on the left and right
- □ removing:
- Removing the bumper \Rightarrow item 5.
- Release screws \Rightarrow item 3.
- Remove guide part.
- Installing:

Installation is carried out in the reverse order.

- 3 1.5 Nm
- 4 1.5 Nm
- 5 Bumpers
 - □ removing:
 - Remove the cover cap for the headlight cleaning system (if applicable)
 ⇒ Electrical System; Rep. Gr. 92.
 - Loosen the holding clamp for the headlight cleaning system (if applicable)
 ⇒ Electrical System; Rep. Gr. 92.
 - Remove the expanding rivers \Rightarrow item 6.
 - Remove screws \Rightarrow item 4 and \Rightarrow item 7.
 - Remove the bumper from the guide parts \Rightarrow item 2.
 - Separate the electrical plug connections for fog headlights (if applicable).
 - Take off front bumper.

□ Installing:

Installation is carried out in the reverse order.

- 6 Body-bound rivet
- 7 5 Nm



Summary of components on the front bumper (RS)

1 - Nut

- 2 Guide part
 - supports the bumper corner on the left and right
 - **u** removing:
 - Removing the bumper \Rightarrow item 5.
 - Release screws \Rightarrow item 3.
 - Remove guide part.
 - Installing:

Installation is carried out in the reverse order.

- 3 1.5 Nm
- 4 1.5 Nm
- 5 Bumpers
 - **u** removing:
 - Remove the cover cap for the headlight cleaning system ⇒ Electrical System; Rep. Gr. 92.
 - Loosen the holding clamp for the headlight cleaning system ⇒ Electrical System; Rep. Gr. 92.
 - Remove the expanding rivers \Rightarrow item 6.
 - − Remove screws \Rightarrow item 4, \Rightarrow item 7 and \Rightarrow item 7.
 - Remove the bumper from the guide parts \Rightarrow item 2 and take off.
 - Separate plug connections for fog lights.
 - Take off front bumper.
 - Installing:
 - Installation is carried out in the reverse order.

6 - Body-bound rivet

- 7 5 Nm
- 8 1.5 Nm



Removing and installing the bumper bracket

Removing

- Removing the bumper \Rightarrow 63-1 page 1.
- Release (30 Nm) screws -2- and remove bumper bracket -1-.

Installing

Installation is carried out in the reverse order.



63-2 Rear bumper

Summary of components of rear bumper

- 1 Nut
- 2 5 Nm
- 3 Bumpers
 - □ removing:
 - Remove trim panel on the right and left \Rightarrow Chap. 70-4.
 - Removing rear lights
 ⇒ Electrical System;
 Rep. Gr. 94.
 - Release screws ⇒ item 2 and ⇒ item 6. Remove bumper from guide parts ⇒ item 5 and mounting strip ⇒ item 8.

□ Installing:

Installation is carried out in the reverse order.

i Note

The dirt pans \Rightarrow item 4 are removed together with the bumper.

- 4 Dirt pan
- 5 Guide part
 - supports the bumper corner on the left and right
 - **u** removing:
 - Removing the bumper \Rightarrow item 3.
 - Release screws \Rightarrow item 7.
 - Pull off guide part.
 - Installing:

Installation is carried out in the reverse order.

- 6 1.5 Nm
- 7 5 Nm
- 8 Mounting strip



Removing and installing the bumper bracket

Removing

- Removing the bumper \Rightarrow 63-2 page 1.
- Release (30 Nm) screws -3- and remove bumper bracket -4-.
- Unscrew the nuts -2- and remove mounting strip -1-.

Installing

Installation is carried out in the reverse order.

Removing and installing rear apron (RS)

Special tools, test and measuring equipment and auxiliary items required

- Adhesive cement -HHA 381 013-
- Cleaning solution -HHA 381 011-

Removing

- Remove the rear bumper \Rightarrow 63-2 page 1.
- Cut off apron from rear bumper (cut through the glue sealing mass).

Installing

🚺 Note

Before the glueing procedure, both sides of the apron must be painted.

- Clean the seating surfaces of the apron and rear bumper with cleaning solution -HHA 381 011- while observing the instructions issued by the manufacturer.
- Apply adhesive cement -1- to the marked surfaces of the apron.

On the bottom side of the rear apron, the gaps -a- (approx. 20 mm) must remain for possible water drain.

- Align rear apron in the middle towards the rear bumper and clip the clips onto the apron in the openings in the bumper.
- Secure position of the rear apron with adhesive tape.
- Clean any dirt present using a cleaning solution.
- Install the rear bumper \Rightarrow 63-2 page 1.

Note

- The glue sealing mass must dry for 24 hours. Do not drive the vehicle in this time.
- Do not drive into the carwash within 48 hours after sticking on the rear apron.
- Carry out glueing procedure at ambient temperature of 10 - 30 °C.





64 – Glazing

64-1 Glued windows

Removing and installing glued windows

Special tools, test and measuring equipment and auxiliary items required

- Cutting tool, e.g. -V.A.G 1351- or -DGE 100- and -TWH 200- manufactured by the company Equalizer.
- Power knife e.g. -V.A.G 1561A- and matching blades or power knife -EET 409- manufactured by the company Equalizer.
- Spooler e.g. -V.A.G 1654- and cutting wire.
- Double nipple -V.A.G 1344 or tool manufactured by the company Equalizer -ESM 911 -.
- Pneumatic cartridge press, for example the one manufactured by the company Equalizer (Powerline).
- Cartridge heating box e.g. -V.A.G 1939-.
- Compressed air pistol for 2K window pane glue e. g. -VAS 5237 -.

Adhesive mate- rials	Spare part No.	Purpose, application range	Denomination, man- ufacturer, comment
2K Window glue set (PUR)	-DA 004 600 A2- 1)	Strong glueing of the windscreen, rear and side windows. Glue sealing mass hardens fast so the work must be done swiftly and skillfully.	Caution: Comply with the manufacturer's handling instructions.
1K Window glue (PUR)	-DH 009 100- ¹⁾²⁾	Strong glueing of the windscreen, rear and side windows	300 ml filling
1K Window glue (PUR)	-DH 009 100 03- 1)2)3)	Strong glueing of the windscreen, rear and side windows	110 ml small filling
Activator	-AMV 181 800 0 2-	Activates the previously sectioned original layer.	
Applicator	-D 009 500 25-	Apply primer and activator.	Order volume 25 piec- es
Primer for win- dows and painted surfaces.	-D 009 200 02-	Priming the windows. Must be applied to window. Is applied to paint before applying glue and sealant (PUR).	
Cleaning solution	-D 009 401 04-	For cleaning all surfaces to which primer or glue is applied.	
Glue remover	-D002 000 10-	Removes glue residues	Must not be used on glued surfaces before glueing.

¹⁾ Respect hardening time.

²⁾ According to manufacturer's instructions heat up with cartridge heater e.g. -V.A.G 1939-.

³⁾ Small cartridge 110 ml for sealing work, or if 300 ml cartridge is not adequate.

Summary of components windscreen

1 - PUR - glue sealing material

2 - Sealing section

□ is part of the windscreen

3 - Windscreen

 $\label{eq:resonance} \begin{array}{l} \square & \text{Removing and installing} \\ & \text{windscreen} \Rightarrow 64\text{-1 page 3} \end{array}$

4 - Eccentric

Given the for adjusting the position of the window pane

5 - Water box cover

□ removing and installing ⇒ Chapter 66-3



Removing windscreen

- Removing front side roof drip moulding -5- ⇒ Chap.
 66-4.
- Unscrew wiper arms -2-. Tightening torque of the nuts: 20 Nm.
- Removing water box cover -1- \Rightarrow Chapter 66-3.
- Removing interior rear-view mirror -3- ⇒ Chapter 68-1.
- Removing trim panel of pillar A \Rightarrow Chapter 70-3.
- Removing sun visors -4- \Rightarrow Chapter 68-2.
- Cover the painted surfaces along the window with textile adhesive tape.
- Cut through the PUR glue sealing mass using special tools.

Cut out the window in compliance with the operating instruction of the relevant tool.

Wear protective goggles and gloves when cutting hardened PUR glue.

 Remove windscreen with the aid of double suction cups e.g. -V.A.G. 1344- or those manufactured by the company Equalizer - ESM-911-.

Installing windscreen

Prepare new windscreen for fitting \Rightarrow 64-1 page 8.

Prepare flange for fitting \Rightarrow 64-1 page 9.

Waiting time \Rightarrow 64-1 page 11.



Summary of components of rear window

1 - PUR - glue sealing material

- 2 Rear window
- 3 Stop
 - □ install for window



Removing undamaged window

- Remove the centre high-mounted brake light
 ⇒ Electrical System; Rep. Gr. 94.
- Disconnect the plug connections of the heated rear window and press the contact tabs onto the window.
- Continue in the same way as for removing rear window of the Fabia Sedan \Rightarrow 64-1 page 5.

Removing damaged window



- Protect vehicle interior from glass splinters.
- Separate rear window heater.
- Remove glass residue up to the glue sealing material.

- Cover the painted surfaces along the window with textile adhesive tape.
- Cut back glue sealing material to a thickness of about 1 mm.

Installing rear window

Prepare new windscreen for fitting \Rightarrow 64-1 page 8.

Prepare flange for fitting \Rightarrow 64-1 page 9.

 $\text{Glue} \Rightarrow 64\text{-1 page 10}$

Waiting time \Rightarrow 64-1 page 11.

Assembly overview of rear window (Sedan)

- 1 PUR glue sealing material
- 2 Rear window
 - respect dimensions: a = 3.7 ± 1 mm
- 3 Stop
 - □ install for window



Removing undamaged window

Note

A second person is required to remove the window.

- Remove base plate \Rightarrow Chapter 70-3.

- Remove cover of centre high-mounted brake light.
- Disconnect the plug connections of the heated rear window and press the contact tabs onto the window.
- Cover the painted surfaces along the window with textile adhesive tape.

Wear protective gloves and goggles when cutting hardened PUR glue.

- Pierce glue sealing material with piercing needle.
- Draw cutting cord through the needle and insert the cutting cord holders.
- Cut out rear window with cutting cord along the circumference of the window.
- Remove window with the aid of double suction cups e.g. -V.A.G 1344-.

Removing damaged window

- Removal is performed in the same way as for the damaged rear window \Rightarrow 64-1 page 4.

Installing rear window

- Install in the same way as for rear window \Rightarrow 64-1 page 5.



Removing and installing side window (Combi)

Assembly overview of side window (Combi)

- 1 Side window
- 2 Sealing profile (part of the pre-layering put on by the manufacturer)
- 3 Trim strip
 - affixed to the sealing profile -2-
 - removing and installing ⇒ Chapter 66-9
- 4 PUR glue sealing material



Removing undamaged window

- Removing trim panel of pillar $C \Rightarrow$ Chapter 70-3.
- Removing trim panel of pillar $D \Rightarrow$ Chapter 70-3.
- Continue in the same way as for removing rear window of the (Fabia Sedan) \Rightarrow 64-1 page 5.

Removing damaged window

- Removal is performed in the same way as for the damaged rear window \Rightarrow 64-1 page 4.

Installing side window

Prepare new windscreen for fitting \Rightarrow 64-1 page 8.

Prepare flange for fitting \Rightarrow 64-1 page 9.

Waiting time \Rightarrow 64-1 page 11.

- 64
- Stick on side window.

Stick on side strip:

Cover the adherend of the strip with glazing/primer
 D 009 200 02- and after drying apply adhesive to the strip and stick on strip.

Observe waiting time \Rightarrow 64-1 page 11.

Prepare new windscreen for fitting

Windscreen

New windscreens are supplied with the sealing section.

1 - Applied bead

- □ Applying bead \Rightarrow 64-1 page 10
- respect dimensions: a = 8
 mm, b = 12 mm
- 2 Sealing section with spacer catches
 - Wipe bead application surface with a dry, non-fluffy cloth





Rear window

- 1 Rear window
 - stops for fitting the window have been fitted all around
- 2 Applied bead
 - □ Applying bead \Rightarrow 64-1 page 10
 - respect dimensions: a = 8 mm, b = 12 mm
- 3 Fit stops
 - install for window



Prepare flange for fitting

- Cut back hardened PUR with a knife e.g.
 -V.A.G 1561/8- to an approx. 1 mm thickness.
- Apply a thin coat of activator to the cut back glue layer.
- Allow activator to work in for at least 10 minutes.

i Note

- The remainder of the hardened glue sealing compound serves as a base for newly applied glue sealing compound. Keep the surfaces to be glued clean and free from grease.
- The activator must not come into contact with paintwork, otherwise the paint will be damaged.
- If the flange was only partly replaced or if the paintwork was damaged clean this area again after painting and treat with primer.



Glueing

- After completing the preparations cut the nozzle for applying the glue into shape as shown in the figure.
- Dimension -a- 12 mm.
- Bead width 8 mm.
- Application direction -arrow-.

Note

- The bead cross section is dependent on the cross sectional area of the nozzle and the application speed.
- When using a 1 component glue -DH 009 100- or -DH 009 100 03- preheat the glue cartridges for 20 minutes with cartridge heater e.g. -V.A.G 1939-.
- Use disposable gloves when working with glues and adhesive materials.

Comply with the manufacturer's handling instructions.

Apply the glue on the sealing section -1- perpendicu larly to the window surface and all around it.

Note

- Apply glue at a temperature of 10 to 30°C.
- Open all vehicle windows before fitting the window into the frame.
- Insert window pane into the frame with the aid of double suction cups (e.g. -V.A.G 1344-), centre and press onto the spacer plates.

Fit the window immediately as otherwise the adhesive properties of the glue decrease considerably.

- Insert window in frame using positioning wedges (applies for the windscreen).
- Fix the window during hardening process with adhesive tape.
- If the glue was applied too thickly and is expressed up to the heating filaments of the rear window heating, it must be eliminated.





Waiting time



- Waiting time: From fitting of the window until the vehicle is put into service.
- The vehicle must stand on a flat surface during the waiting period at an ambient temperature above 15°C.
- A higher temperature and a greater relative humidity shorten the waiting time for the glue to harden.

Window type	Vehicle	Glue	Waiting time
Windscreen	with airbag	-DH 009 100-	16 hours
		-DA 004 600 A2-	3 hours
	without airbag	-DH 009 100-	4 hours
		-DA 004 600 A2-	3 hours
Side windows		-DH 009 100-	4 hours
		-DA 004 600 A2-	3 hours
Rear window		-DH 009 100-	4 hours
		-DA 004 600 A2-	3 hours

The vehicle is only safe for driving after the waiting time has expired.

Eliminating paint damage

The paint structure must be restored in accordance with the instructions in the "Paint Repairs" handbook and if necessary anti-corrosion measures must be carried out according to the applicable repair technology of Škoda.

In the event of paint damage in a non-visible area apply the following repair method:

Cover twice (wet on wet) with paint primer
 D 009 200 02-. Time required for taking effect approx. 10 minutes.

Remove glue and clean

It is recommended to use glue remover
 D 002 000 10-. Observe the safety instructions during use.

When cleaning the vehicle interior do not press against the freshly glued window.

 Clean the paint surfaces with a dry cloth. Remove the glue residue with glue remover -D 002 000 10-. 64

 Clean plastic coverings: Allow glue sealing material to harden (approx 1 hour) and then pull off.

Exterior equipment 66

Wheelhouse liner 66-1

Removing and installing the front wheelhouse liner

Removing

- Unscrew wheel, Mu = 120 Nm.
- Release screws -2-.
- Remove wheelhouse liner -1-.



Note

For vehicles with engine identification characters ATD and AUN: When removing the wheelhouse liner the wheelhouse noise insulation panel -3- may fall out. It must be re-inserted, if necessary replace.

Installing

The installation occurs in reverse order.

Removing and installing the rear wheelhouse liner

Removing

- Unscrew wheel, Mu = 120 Nm.
- Release screws -2-.
- Remove wheelhouse liner -1-.

Installing

The installation occurs in reverse order.



S66-0078

2

66-2 Rear-view mirror

Summary of components of rear-view mirror

- 1 Damping
- 2 10 Nm
- 3 Cover
- 4 Clip
- 5 Mirror adjustment
- 6 Nut
- 7 Electrical plug connection for electric mirror adjustment
- 8 Control cablesa for manual mirror adjustment
- 9 Mirror housing
- 10 Mirror glass
 - Clippen on for both versions (manual and electric adjustment)
 - □ Removing:
 - Disconnect electric plug connection for electric mirror heating (if available).
 - First push out mirror glass at the bottom then at the top (special tool -MP 8-506- otherwise -MP 8-602/1-). Protect mirror housing for damage).
 - □ Installing:

The installation occurs in reverse order.



Make sure you only press the center of the glass - protective gloves and safety goggles must be worn.

11 - Wiring loom

□ only for electrically adjustable outside mirror.



66-3 Water box cover

Removing and installing water box cover

- 1 Plug
 - replace
- 2 Water box cover
 Clipped into windscreen sealing section -3-
- 3 Windscreen sealing section
- 4 Windscreen
- 5 Gasket
 - when glueing use e.g. contact glue



Removing

- Slightly release plugs -1- and cover the overall space with textile adhesive tape to prevent possible damage to the water box cover.
- Remove plug with pliers.
- Removing windsccreen wipers \Rightarrow Electrical System; Rep. Gr. 92.
- Unclip water box cover -2- from the windscreen sealing section. Pay attention to the seal -5-.
- Pull off the windscreen washer hoses.
- Disconnect the plug connection of the heated windscreen wiper washer system.

Installing

The installation occurs in reverse order.

66-4 Roof drip moulding

Removing and installing roof drip moulding

- 1 Roof drip moulding
- 2 Fixing element of a roof rack
- 3 10 Nm
- 4 Cap
 - covers the roof rack holes
- 5 Roof drip moulding holder



Removing

 Lever off roof drip moulding -1- from the roof section with -3409- (plastic wedge).

Installing

 Align roof drip moulding and press into roof section using the palms of the hand.

66-5 **Protective strips**

Removing and installing protective side strips

- 1 Front door protective stripadhesive
- 2 Rear door protective stripadhesive



Removing

- Heat adhesive protective side strip with a hot air blower for plastic (e.g. -V.A.G 1416-) and pull off strip.

Installing

- Clean the adherend on the outer panel with petrol, treat with a silicone remover and wipe dry.
- Mark out the position of the protective side strips on the vehicle.

a = 150 mm

b = 175 mm

Note

If there are other protective side strips on the body, align the protective side strips to be replaced on these.

 Remove protective film, position the protective side strip and press on with force (before pressing on check whether the position of the protective side strip has changed). The temperature of the outer panel and the protective side strips must be of approx. 20° C.

66-6 Trailer coupling

Summary of components trailer coupling

1 - Trailer coupling frame

- Removing:
- Remove trailer arm -4-.
- Insert dummy plug -5-.
- Removing rear bumper \Rightarrow Chap. 63-2.
- Remove plug connection -8-.
- Remove screws -2-.
- Remove trailer coupling frame from vehicle.
- The installation occurs in reverse order.
- 2 70 Nm

3 - Protective cap

- 4 Trailer arm
 - Removing:
 - Push control lever down 90 °.
 - Open lock on control lever.
 - Remove trailer arm and put control lever back to initial position.
 - Installing:
 - The installation occurs in reverse order.

5 - Dummy plug

- Insert in trailer arm hole.
- 6 2.5 Nm
- 7 Base
- 8 Plug connection
 - Removing:
 - Release screws -6-.
 - Disconnect electrical installation.
 - Installing:
 - The installation occurs in reverse order.

Note

Use the plug connection and electrical installation type recommended in the country specific instructions.

- 9 Gasket
- 10 Bracket



66-7 Roof railing (Combi)

Removing and installing the roof rack

Removing

- Removing moulded headliner \Rightarrow Chap. 70-5.
- Unscrew bottom fixing nuts -3- (6 Nm) and remove roof rack -1-.

The roof rack can also be removed without removing the moulded headliner:

i Note

If this removal procedure is adopted, it is likely that the end protective caps of the roof railing -4- will be damaged.

- Lever off the screw caps/roof rack at centre and end.
- Unscrew top fixing nuts -2- (6 Nm) from the roof rack -1-.
- Remove roof rack -1-.

Installing

Installation is carried out in the reverse order.

Maintain installation position of seal -5-.

Dimension of holes for roof railing

Position holes for roof railing in longitudinal axis.

a = 229.7 mm (from corner of roof edge)

- $b=72.5\pm0.2\ mm$
- $c = 567 \pm 0.5 \text{ mm}$
- $d=530\pm0.5~mm$
- $e=85\pm0.2\ mm$



66-8 Rear spoiler

Summary of the components - for the complete rear spoiler (Combi)

- 1 Rear spoiler
- 2 3. Brake light
- 3 Glue sealing mass

Removing and installing rear spoiler completely (Combi)

Special tools, test and measuring equipment and auxiliary items required

- Cutting wire with holder (e.g. -V.A.G 1351-)
- Glue sealing mass -HHA 381 013-
- Cleaning solution -D 009 401 04-

Removing the spoiler

- Cut off the spoiler from the tailgate (cut through the glue sealing mass).
- Remove the spoiler.



Do not damage the painted surfaces.

Installing the spoiler

- Clean the body and seating area for the spoiler with cleaning solution -D 009 401 04- while observing the instructions issued by the manufacturer.
- Spread the glue sealing mass -1- onto the marked spoiler surface.
- Centre the spoiler on the tailgate.
- Press the spoiler onto the tailgate.
- Secure the correct location of the spoiler using adhesive tape.
- Remove any dirt present using a cleaner.

i Note

- The glue sealing mass must dry for 2 hours. Do not drive the vehicle in this time.
- Do not drive into the carwash within 24 hours of gluing on the spoiler.

Summary of the components - for the complete rear spoiler (RS)

- 1 Rear spoiler
- 2 3. Brake light





3 - Glue sealing mass

Removing and installing rear spoiler completely (RS)

Special tools, test and measuring equipment and auxiliary items required

- Cutting wire with holder (e.g. -V.A.G 1351-)
- Glue sealing mass -HHA 381 013-
- Cleaning solution -D 009 401 04-

Removing the spoiler

- Cut off the spoiler from the tailgate (cut through the glue sealing mass).
- Remove the spoiler.



Do not damage the painted surfaces.

Installing the spoiler

- Clean the body and seating area for the spoiler with cleaning solution -D 009 401 04- while observing the instructions issued by the manufacturer.
- Spread the glue sealing mass -1- onto the marked spoiler surface.
- Centre the spoiler on the tailgate.
- Press the spoiler onto the tailgate.
- Secure the correct location of the spoiler using adhesive tape.
- Remove any dirt present using a cleaning solution.

i Note

- The glue sealing mass must dry for 24 hours. Do not drive the vehicle in this time.
- Glue at ambient temperature 10 30 °C.


66-9 Decorative strips (Combi)

Removing and installing decorative strips

Special tools, test and measuring equipment and auxiliary items required

- + Hot air pistol, e.g. -HLG 600 -
- Technical petrol
- Degreased white spirit solution
- Doubled-side adhesive tape such as that available from the company 3M; width = 8 mm, thickness = 0.8 ± 0.1 mm

Removing

- Warm up the decorative strip using the hot air pistol. Air temperature max. 100°C.
- Carefully remove the decorative strip.

Installing

- Clean off adhesive residue -3- from the sealing profile
 -2- and decorative strip -1- with technical petrol.
- Clean the sealing profile -2- and decorative strip -1- with degreased white spirit solution.
- Glue on the sealing profile -2- using doubled-sided adhesive tape -3-.
- Remove the protective foil from the adhesive tape -3-.
- Glue the decorative strip -1- onto the side window sealing profile -2-.

Note

The temperature of the decorative strip and sealing profile should be about $20^\circ C$.



68 - Interior equipment

68-1 Interior rear-view mirror

Removing interior rear-view mirror

 Dislodge the interior rear-view mirror -1- from the retaining plate by pressing it down -arrow- obliquely (clamping springs in mirror base plate).



Installing rear-view mirror

 During mounting position the mirror -1- at an angle of 60...90° relatively to its final position and rotate -arrow- until the catch spring locks.

Repair method with glass-metal adhesive

Special tools, test and measuring equipment and auxiliary items required

- Glass-metal adhesive set -D 000 703 A1-
- 1 Glass scraper
- 2 Blade
- Remove retaining plate from mirror base plate.
- Remove PUR adhesive from retaining plate with a wire brush.
- Grind down the three distance knobs on the adherend. To do so place abrasive paper (grain 360/400) on a flat surface.
- The ground surfaces must be clean and without trace of grease.
- Scrape the PUR adhesive and primer down to the ceramic layer on the windscreen using the glass scraper.
- Clean the adherend with cleaning solution
 -D 009 401 04-.





Do not damage the ceramic layer. Scratches remain visible.

 Cut out a piece of nylon to the exact dimension of the mirror base plate.



It is recommended to wear a rubber glove.

- Apply a liberal coat of adhesive uniformly to the mirror base plate.
- Position the piece of nylon on the mirror base plate.
- Continue applying adhesive by dabbing the tube against the piece of nylon.

Once the piece of nylon is positioned on the adhesive you only have 30 seconds to press it on the windscreen.

- Press the mirror base plate steadily onto the windscreen for 15 seconds (do not use force).
- Remove excess adhesive with a cloth.



Mount the interior rear-view mirror after 15 minutes.

68-2 Covers, storage areas and trim panels

Summary of components of centre console

- 1 Clip
- 2 Front centre console

 - □ must be removed together with centre console ⇒ item 10
- 3 2 Nm
- 4 Screw
 - □ for front ashtray
- 5 front ashtray element
- 6 Front ashtray with gearshift lever cover
- 7 Gearshift lever knob
- 8 Cover for gearshift

9 - Cover

- L take off when removing the centre console

10 - Centre console

- □ removing:
- Removing rear ashtray
 ⇒ item 12 and releasing screws ⇒ item 11.
- Removing cover \Rightarrow item 9.
- Remove cover ⇒ item 8 and gearshift lever knob
 ⇒ item 7 from the centre console.
- Remove the front ⇒ item 5 ashtray element, release the screw ⇒ item 4 and remove the front ashtray with gearshift lever cover ⇒ item 5.
- Release screws \Rightarrow item 3.
- Removing the clips \Rightarrow item 1.
- Remove the centre console together with the front centre console ⇒ item 2 and separate from each other obliquely.
- Installing:
- Installation is carried out in the reverse order.
- 11 2 Nm
- 12 Rear ashtray



Removing and installing the front can holder

Removing

- Open can holder -3-.
- Remove trim -1- -arrow-.
- Unscrew bolts -2-.
- Pull out can holder -3- from centre section of dashboard.

Installing

Installation is carried out in the reverse order.



Removing and installing the sun visor

Removing

- Unhook sun visor -1- from its retainer -4-.
- Release cap -3-.
- Release screw -2-.
- Unhook sun visor -1- from the retainer and remove.
- Release cap -6-.
- Release screws -5- and remove retainer -4-.

Installing

Installation is carried out in the reverse order.

Removing and installing the centre sun visor

Removing

 Lower centre sun visor by hand -arrow A- and remove -arrow B-.

Installing

Installation is carried out in the reverse order.

Removing and installing the storage area (Praktik)

Removing

- Removing moulded headliner \Rightarrow Chapter 70-5.





- Release screws -1- (1.5 Nm).
- Take out the storage area -2-.

Installing

Installation is carried out in the reverse order.

Removing and installing the moulded headliner (Praktik)

Removing

- Remove the moulded headliner
- − Pull out the storage area in the -direction of the arrow-.

Installing





68-3 Recessed handle

Removing and installing recessed handle

Removing

- Fold down recessed handle -1-.
- Lever off caps -2- with a narrow screwdriver and open.
- Release the screws -3- (1.5 Nm) and remove the recessed handle -1-.

Installing



Partition panel and protective grating (Praktik) **68-4**

Summary of components for the partition panel

1 - 10 Nm

2 - Partition panel

- □ removing:
- Removing the floor plate at the front \Rightarrow Chapter 68-6.
- Release screws \Rightarrow item 3.
- Release screws \Rightarrow item 1.
- Remove the partition panel to the rear.
- □ Installing:



Note

A plastic plate should be used under the supports at the top when installing the separating panel in order to avoid damaging the moulded headliner. Installation is carried out in the reverse order.

3 - 20 Nm



Removing and installing the protective grating for the tailgate

Removing

- Release screws -1- (6 Nm).
- Remove tailgate -2-.

Installing



68-5 Floor partition (Praktik)

Removing and installing the front floor partition

Removing

- Remove rear floor partition \Rightarrow 68-5 page 1.
- Remove securing eyes -1- (17 Nm).
- Take out the plate -2-.

Installing

Installation is carried out in the reverse order.

Removing and installing the rear floor partition

Removing

- Unlock the floor.
- Press the press safety catch -2- on both sides of the I floor using a screwdriver on the -direction of the arrow-.
- Remove the floor -1- upwards.

Installing



68-6 Front entrance plates (RS)

Removing and installing the front entrance plates

- 1 Connection of interior trim
- 2 Entrance plate
- 3 The protective film
- 4 Adhesive tapes

Special tools, test and measuring equipment and auxiliary items required

- Hot air pistol (e.g. -V.A.G 1416 -)
- Cleaning solution (e.g. -D 009 401 04-)

Removing

- Heat entrance plate to around 100 °C with hot air pistol.
- Separate entrance plate from door bottom.

Installing

- Clean the contact surface of the door bottom with cleaning solution -D 009 401 04-.
- Remove protective films from adhesive tapes.
- Position the front edge of the plate to the connection
 -1- of the interior trim (tolerance ± 2 mm) and stick the entrance plate onto the door bottom.



69 – Occupant protection

69-1 Seat belts

Safety instructions for work on seat belt tensioners

- All inspection, removal and installation and repair work must only be carried out by properly qualified personnel.
- Belt tensioner units must not be opened or repaired. Only use original new parts (risk of injury).
- Seat belt tensioner units that have been subject to serious impacts or which have been dropped onto the ground must not be fitted in vehicles.
- Seat belt tensioner units which are mechanically damaged (dents, cracks) should always be replaced with original new parts.
- Storage and transport must comply with the legislation on explosive and hazardous materials.
- The non-ignited belt tensioners must be sent to a specialist company or to the importer for disposal in compliance with the instructions of PST and environmental protection regulations. The specified transportation packaging should be used for this purpose.
- Ignited seat belt tensioners may be disposed of as general waste.
- The belt tightener units should be installed immediately after being removed from their transport packaging.
- Do not use electric or impact screw drivers to remove or install the seat belt tensioners.
- Place the seat belt tensioner unit back in the transport packaging if the work is interrupted.
- It is not permitted to leave the seat belt tensioner unit unattended.
- The seat belt tensioner unit must not be treated with grease, cleaning agents or similar products, and it must not be exposed to temperatures above 100°C, not even for short periods.
- The pyrotechnic propellant has a life of 15 years. After this period has elapsed, the seat belt tensioner and seat belt must be replaced with a new original part.
- Both seat belt tensioners together with the seat belts (the seat belts no longer retract) are to be replaced with new original parts following an accident in which the seat belt tensioners were deployed.
- Before disposing of vehicles with non-ignited seat belt tensioners, first remove the seat belt tensioners and send them to a specialist company or to the importer for disposal in compliance with the instructions of PST and environmental protection regulations.
- Remove the seat belt tensioner units before starting repair work.

Summary of components of front seat belts

- 1 Belt height adjustment
- 2 23 Nm
- 3 Top deflection fitting
- 4 35 Nm
- 5 Cap
- 6 The belt guide
- 7 1.5 Nm

8 - Front seat belt buckle

- **u** removing:
- Removing seat plastic housing \Rightarrow Chap. 72-1.
- Disconnect the plug connection of the seat belt signalling underneath seat.
- Release plug connection of the electric belt buckle signalling line.
- Unscrew belt buckle fixing screw.
- □ Installing:

Installation is carried out in the reverse order.

Tightening torque of the belt buckle fixing screw 35 Nm.

- 9 35 Nm
- 10 35 Nm
- 11 Deflection fitting below
- 12 Inertia reel with seat belt tensioner
 - before removing first remove bottom trim panel B pillar and entrance plate
 - The retaining lug determines the position of the inertia reel
 - D mechanically ignited belt tensioner
 - electrically ignited belt tensioner



Removing and installing the rear seat belts

- 1 Deflection fitting below
- 2 35 Nm
- 3 Inertia reel
 - □ The retaining lugs determine the position of the inertia reel
 - □ removing:
 - Lift the rear seat bench and fold back.
 - Unlock the the rear seat bench and fold forward.
 - Removing support of the luggage compartment cover ⇒ Chap. 70-4.
 - Removing side trim panels in the luggage compartment ⇒ Chap. 70-4.
 - Removing screw \Rightarrow item 2 and inertia reel \Rightarrow item 3.
 - Removing top deflection fitting \Rightarrow item 4 and bottom deflection fitting \Rightarrow item 1.
 - □ Installing: Installation is carried out in the reverse order.
- 4 Top deflection fitting
- 5 35 Nm
- 6 Cap
- 7 Belt buckle
- 8 35 Nm



Summary of components - middle three- ► point seat belt at the rear

i Note

- Arrow = direction of travel.
- Check seat belts \Rightarrow Chapter 69-2
- 1 Right rear panel
- 2 Vehicle floor
- 3 35 Nm
- 4 Left belt buckle
- 5 Middle belt buckle
- 6 Bottom seat belt fitting
- 7 Right belt buckle
- 8 35 Nm
- 9 Inertia reel/middle belt

removing:

- Remove the bottom seat belt fitting -6-.
- Remove belt guide, partially also the upholstery and the backrest upholstery so far that the inertia reel can be removed \Rightarrow Chapter 74-2.
- Remove nut -8-.
- Remove the belt from the right rear panel -1-.

Installing:



69-2 Inspecting seat belts

The seat belt system must be inspected after every accident! If one of the inspection points reveals any damage inform the customer that the seat belts must be replaced.

Inspection points:

- Check seat belt
- Check inertia reel (locking rate)
- Seat belt buckle Visual inspection
- Seat belt buckle Operating test
- Check deflection fitting and buckle latch
- Check fixing parts and fixing points
- Check lap belt inertia reel



Make a special note should the customer refuse to have a damaged seat belt replaced.

Checks

Check seat belt

- Completely unreel the seat belt from the inertia reel or from the lap belt adjusting strip.
- Check seat belt for:
- Soiling, if necessary wash with a mild detergent.
- Torn fraying on the edge of the belt.
- Cuts, tears or chafing spots.
- Cigarette burn stains or holes etc.

If a vehicle involved in an accident displays any of the above damage, the seat belt and buckle must be completely replaced with a new original part.

Checking inertia reel (locking rate)

The inertia reel has two locking functions.

 The first locking function is activated when the belt is drawn rapidly out of the inertia reel (belt withdrawal acceleration).

Test

Withdraw the seat belt from the inertia reel with a forceful sudden motion.

- No locking effect replace seat belt together with buckle with a new original part.
- First check whether the withdrawal and retracting of the belt is smooth or whether the position of the inertia reel has changed.
- The second locking function is activated by a change in the vehicle's motion (vehicle-dependent locking function).

Test

- Put on seat belt.
- Accelerate to 20 km/h and perform a full brake with the brake pedal.
- Replace the seat belt and buckle with a new original part if the locking device does not lock the belt during braking.

For safety reasons carry out this road test on a section with no traffic so as not to endanger other road users.

Seat belt buckle - Visual inspection

- Check belt buckle for fractures and flaking.
- In the event of damage replace seat belt together with buckle with a new original part.

Seat belt buckle - Operating test

Check seat belt buckle:

- Insert buckle latch in the belt buckle until a click is heard. Check the locking of the lock mechanism by forcefully tugging at the seat belt.
- Replace the seat belt and buckle with a new orginal part even if the buckle latch fails to lock in the buckle only once out of at least five tests.

Check release:

- Release seat belt by pressing the seat belt buckle button.
- If the belt is loose the latch must eject independently from the belt buckle.
- Test at least 5 times. Replace the seat belt and buckle with a new original part if the buckle latch fails to eject just once.

Never use lubricants to eliminate noises or to smoothen the operation of the buttons on seat buckles.

Check deflection fitting and buckle latch

When the belt system is burdened (seat belt attached in an accident) plastic-coated fittings will display fine parallel score marks. (Normal wear and tear due to frequent use is recognisable by a stripe-free smooth abrasion).

- Check plastic for deformation, flaking and cracking.
- In the event of scoring and/or damage replace seat belt and buckle with a new original part.

Check fixing parts and fixing points

- Buckle flanges deformed (extended)
- Height adjuster does not work
- Fixing points (seat, pillar, vehicle floor) warped or thread damaged
- If the parts are damaged replace seat belt and buckle with a new original part.
- Replace fixing points with a new original part.

i Note

In the event of damage not resulting from an accident, e.g. wear and tear, it is only necessary to replace the damaged part with a new original part.

69-3 Airbag

Airbag system



Self-diagnosis for airbag system \Rightarrow Chapter 01-5.

- 1 Airbag warning lamp -K75-
- 2 Passenger airbag unit
 - **a** removing \Rightarrow 69-3 page 7
 - □ blocking and activating function (adaptation) ⇒ Chapter 01-7
- 3 Switch for the front passenger airbags
 - the switch for the front passenger airbags is located in the glove compartment
 - **\Box** removing \Rightarrow 69-3 page 10

4 - Driver side airbag unit

- The passenger's side airbag unit is fitted in the passenger seat backrest
- **a** removing \Rightarrow 69-3 page 8
- ❑ blocking and activating function (adaptation) ⇒ Chapter 01-7
- 5 Driver airbag unit

□ removing and installing \Rightarrow 69-3 page 4

- 6 Airbag system control unit -J234-
 - □ on the tunnel in the front part of the centre console
 □ removing ⇒ 69-3 page 10
- 7 Diagnostic connector
 - at the side left behind the storage tray
- 8 Crash sensor side airbag
 - driver and passenger B-cross member \Box removing \Rightarrow 69-3 page 8

Safety precautions when working on the airbag system

DANGER!

The pyrotechnic propellant of the airbag units contains toxic substances. There is a risk of explosion if the airbag unit is improperly handled!



- Inspection, removal and installation and repair work must only be carried out by properly qualified personnel.
- Inspections of the airbag system must only be performed with the test and measurement equipment provided as otherwise there is a risk of the airbag unit being activated.
- Only operations described in this Workshop Manual may be carried out. It is absolutely prohibited to disassemble the airbag units.
- Faulty parts must be replaced with new original parts.
- Before carrying out any work on the airbag system disconnect the earth strap of the battery. After disconnecting the battery it is essential to wait one minute. The ignition must be switched on when connecting the airbag system to a power source and no person should be present inside the vehicle.
- The mechanic should electrically discharge himself before picking up (touching) the airbag unit. This is done by touching an earthed metal part, such as e.g. a water pipe, heating pipe or a metal bracket.
- The airbag units should be installed immediately after being removed from the transportation packaging.
- If work is interrupted, place the airbag unit back in the transportation packaging.
- It is not permitted to leave the airbag unit unattended.
- When removed, airbag units should be stored so that the padded side is facing upwards.
- The airbag units must not be treated with grease, cleaning agents or similar products, and must not be exposed to temperatures above 100 °C, not even for short periods.
- Airbag units that have been dropped on a hard surface, or which are otherwise damaged, must not be fitted.
- Defective airbag units of the airbag system which have not been ignited must be returned for disposal to a specialist company or to the importer in accordance with the instructions of PST and environmental protection regulations. The specified transportation packaging should be used for this purpose.
- The pyrotechnic propellant and the airbag control unit have a life of 15 years. After this period has elapsed, the airbag units and control units must be replaced with new original parts.
- Dispose of the airbag units before scrapping the vehicle \Rightarrow Chapter 69-4.
- Storage and transport must comply with the legislation on explosive and hazardous materials.
- Only use original seat upholstery approved for side airbags.
- The use of commercially available protective seat covers is prohibited as this impairs the operation of the side airbags.

- Replace all harpoon clips with new original parts.
- In the event of damage to the upholstery tears, burn holes etc. - in the area of the side airbag always replace the upholstery with a new original part for safety reasons.

Replacing parts of the airbag system

Registering parts of the airbag system

If a part of the airbag system is to be replaced using original parts the self-adhesive labels with the number should be removed, placed on registration card no. 000 010 100 A and sent in for registration to the customer service network (domestic) or the importer (in the case of other countries):

- Central control unit for the airbag system
- Driver airbag unit
- Passenger airbag unit
- The side airbag unit on the driver's side with seat cover
- The side airbag unit on the front seat passenger's side with seat cover
- Crash sensor side airbag on the driver's side.
- Crash sensor side airbag on the front passenger's side

Accident with deployment of airbag

The following parts should always be replaced with new original parts:

- Control unit¹⁾
- Driver airbag unit²⁾
- Passenger airbag unit²⁾
- Driver side airbag unit²⁾
- Passenger side airbag unit²⁾
- Restoring ring with slip ring³⁾
- Driver seat belt tensioner with seat belt²⁾
- Passenger seat belt tensioner with seat belt²⁾

If necessary (visual inspection) replace all damaged parts with new original parts.

The new control unit should be newly coded after the old one is replaced \Rightarrow Chapter 01-5.

Accident without deployment of airbag unit

 If the airbag warning light -K75- does not signal any fault and if no parts of the airbag system are damaged there is no need to replace any parts of the airbag system. Pay special attention to examining the seat belts.

¹⁾ If the side airbag unit has ignited the unit may again be used - up to three times.

²⁾ In the event of ignition.

³⁾ Ignition of driver's airbag unit.

Removing and installing driver airbag unit

Safety measures should be observed when handling airbag units \Rightarrow 69-3 page 1.

i Note

After connecting the battery earth strap, a few additional operations are necessary \Rightarrow Electrical System; Rep. Gr. 27.

Removing

- Turn steering wheel until one of the holes -arrows A is located at the top.
- Using a small screwdriver, unhook the spring -arrow
 B- from the rear of the steering wheel (through the hole).
- Repeat process for the second spring.
- Carefully remove airbag unit from the steering wheel and fold back.
- Disconnect connector -arrow- from the airbag unit.
- Lay aside the airbag unit in such a way that the impact absorber points upwards.

Installing

- Installation is carried out in the reverse order.
- Switch on ignition.
- Connect earth cable of the battery.

Nobody should be in the vehicle when the battery is being connected.





Summary of components of four-armed steering wheel

1 - Steering wheel

- □ removing:
- Removing the driver's airbag unit \Rightarrow 69-3 page 4.
- Turn the steering wheel to centre position (wheels in straightahead position).
- Release screws ⇒ item 2 and mark the opposite position of the steering wheel and shaft with a line, then remove the steering wheel from the steering column.
- □ Installing:
- Installation is carried out in the reverse order.
- 2 55 Nm
 - can be used up to five times, then replace with new original part.
 - mark with a dot after each mounting
- 3 5 Nm
- 4 Airbag unit
- 5 Connector
- 6 Fixing plate



Summary of components of three-armed steering wheel

1 - Steering wheel

- □ removing:
- Removing the driver's airbag unit ⇒ 69-3 page 4, or horn unit for vehicles without airbag.
- Turn the steering wheel to centre position (wheels in straightahead position).
- Release screws ⇒ item 2 and mark the opposite position of the steering wheel and shaft with a line, then remove the steering wheel from the steering column.
- □ Installing:
- Installation is carried out in the reverse order.

2 - 55 Nm

- can be used up to five times, then replace with new original part.
- mark with a dot after each mounting
- 3 5 Nm
- 4 Airbag unit
- 5 Fixing plate
- 6 Connector



Removing and installing restoring ring with slip ring

Removing

- Driver airbag unit and steering wheel removed.
- Remove covering for steering column pillar \Rightarrow Chapter 70-1.
- Unplug connector -1-.
- Release catch hooks -arrow- and remove restoring ring with slip ring from the steering-column control.



i Note

- The restoring ring with slip ring must be removed and installed when the steering wheel is in centre position (wheel in straightahead position).
- Restoring ring with slip ring are secured by a clip in the centre position when supplied as a replacement part. Remove this clip just before installing the parts.
- If it is intended to re-install the restoring ring with slip ring, fix in centre position with adhesive tape.

() Caution!

Do not turn the restoring ring. There is a risk of the restoring ring fracturing while driving.

Installing

Installation is carried out in the reverse order.

Removing and installing passenger airbag unit

Safety measures should be observed when handling airbag units \Rightarrow 69-3 page 1.

After connecting the battery earth strap, a few additional operations are necessary \Rightarrow Electrical System; Rep. Gr. 27.

Removing

- Disconnect earth strap of the battery.
- Remove the glove compartment \Rightarrow Chapter 70-1.
- Disconnect airbag unit connector.
- Unscrew bolts -2-.
- Remove airbag unit -1- from the dash panel.

Installing

i Note

secure using a securing screw -Loctite 275-.

- Install airbag unit on dash panel holder.

Tightening torque: 10 Nm.

- Connect the airbag unit connector.
- Install glove compartment \Rightarrow Chapter 70-1.
- Switch on ignition.
- Connect earth cable of the battery.



WARNING!

 Nobody should be in the vehicle when the battery is being connected.

Removing and installing a side airbag crash sensor

Safety measures should be observed when handling airbag units \Rightarrow 69-3 page 1.

After connecting the battery earth strap, a few additional operations are necessary \Rightarrow Electrical System; Rep. Gr. 27.

Removing

- Removing front seat \Rightarrow Chapter 72-1.
- Remove the entrance plate \Rightarrow Chapter 70-3.
- Roll up carpet at the front of the B-crossmember.
- Unplug connector -1-.
- Remove screws -3- of crash sensor -2-. Tightening torque = 9 Nm.

Installing

Installation is carried out in the reverse order.

- Switch off the ignition before attaching the battery.

Nobody should be in the vehicle when the battery is being connected.

Removing and installing side airbag units



Safety measures should be observed when handling airbag units \Rightarrow 69-3 page 1.

After connecting the battery earth strap, a few additional operations are necessary \Rightarrow Electrical System; Rep. Gr. 27.

Removing:

- Removing front seat from vehicle \Rightarrow Chapter 72-1.
- Removing seat backrest \Rightarrow Chapter 72-1.



- Loosen the backrest upholstery in the area of the airbag unit \Rightarrow Chapter 74-1.
- Remove cable strap -5- for electrical airbag cable -4-.
- Release screws -2- and remove airbag unit -3- from backrest rack -1-.



Secure electrical wiring -1- of the airbag unit to the rack -3- using clip -2-, while clipping the cable flush with the coloured section.

- Insert new airbag unit in the backrest rack.

- Tighten screws -3- of the airbag unit. Tightening

Note

Installing

the screw below -3-.

torque: 7 Nm.

To avoid damaging the electrical wiring of the airbag unit during mounting it is drawn together with adhesive tape. This tape must only be removed after the backrest and seat have been fitted.

- Installing backrest upholstery \Rightarrow Chapter 74-1.
- Mouting backrest and seat \Rightarrow Chapter 72-1.
- Fitting seat in vehicle \Rightarrow Chapter 72-1.
- Switch off the ignition before attaching the battery.



Nobody should be in the vehicle when the battery is being connected.

Removing and installing airbag control unit -J234-

- 1 8 Nm
- 2 control units plug
- 3 control unit



After connecting the battery earth strap, a few additional operations are necessary \Rightarrow Electrical System; Rep. Gr. 27.

Removing:

- Disconnect earth strap of the battery.
- Remove right footwell covering on driver's side.
- Removing centre console at front \Rightarrow Chapter 68-2.
- If necessary, cut the carpet and insulation mattings around the control unit.
- Unlock the connector lock -2- and remove the connector.
- Release nuts -1-.
- Remove control unit -3-.

Installing:

- Installation is carried out in the reverse order.

Nobody should be in the vehicle when the battery is being connected.



Note

When replacing the control unit repeat coding \Rightarrow Chapter 01-5.

Removing and installing the front passenger airbag switch



Safety measures should be observed when handling airbag units \Rightarrow 69-3 page 1.



Removing:

- Disconnect earth strap of the battery.
- Turn the switch with the ignition key into the middle position and pull out the front passenger airbag switch -arrow- carefully.
- Disconnect the plug connection of the front passenger airbag switch.

Installing

Installation is carried out in the reverse order.

- Switch off the ignition before attaching the battery.

Nobody should be in the vehicle when the battery is being connected.



After connecting the battery earth strap, a few additional operations are necessary \Rightarrow Electrical System; Rep. Gr. 27.


69-4 Removal of pyrotechnic parts before scrapping the vehicle

Parts of the airbag unit and the belt tensioner must be disposed of safely according to accident prevention regulations to protect against undesirable explosion (unintentional ignition). It is essential to observe this condition since incorrect or unintentional ignition (e.g. scrapping using a flame cutter) can lead to injury.

Disposal of the airbag units before scrapping the vehicle

Special tools, test and measuring equipment and auxiliary items required

- Ignition system -V.A.G 1821-
- Cable connector from the set -V.A.G 1594-
- Connecting cable -V.A.S 5232-
- Connecting cable -V.A.S 5094-

The airbag units should be ignited within the vehicle with the doors closed.

All people should be at least 10 metres away from the vehicle when the voltage is applied and the airbags are triggered.

Igniting the side airbag on the driver's side

- Removing airbag unit \Rightarrow Chapter 69-3.
- Disconnect the plug connector -arrow- from the airbag unit.
- Connect the connecting cable -V.A.S 5094- onto the airbag.
- Reinstall the airbag. The connecting cable lies between the airbag unit and the steering wheel.
- Connect up the ignition system -V.A.G 1821- using the cable connector on the connecting cable.
- Lay the ignition system through the gap in the door and connect to the external battery.
- Ignite the airbag unit and dispose of it as scrap.

Igniting the side airbag on the front seat passenger's side

- Remove the glove compartment \Rightarrow Chapter 70-1.
- Disconnect airbag unit connector.
- Connect the connecting cable -V.A.S 5232- onto plug connector of the airbag.
- Connect up the ignition system -V.A.G 1821 using the cable connector on the connecting cable.





- Lay the ignition system through the gap in the door and connect to the external battery.
- Ignite the airbag unit and dispose of it as scrap.

Ignite the side airbag units

- Pull out the plug connector for the airbag unit under the seat \Rightarrow Chapter 69-3.
- Connect the connecting cable -V.A.S 5232- onto plug connector of the airbag.
- Connect up the ignition system -V.A.G 1821 using the cable connector on the connecting cable.
- Lay the ignition system through the gap in the door and connect to the external battery.
- Ignite the airbag unit and dispose of it as scrap.

Disposing of the belt tensioner

Belt tensioners not be disposed of in the usual way for other scrap but must be sent to a specialist company or to the importer for disposal in compliance with instructions from PST and environmental protection regulations. This also applies to ignited belt tensioners (one cannot determine with absolute certainty that all 3 pyrotechnic charges on the belt tensioners will be ingnited).

70 – Trim panel/insulation

70-1 Dash panel

Removing and installing the dash panel

Removing dash panel

Disconnect earth strap from the battery before commencing work on the electrical system.

- Remove steering wheel \Rightarrow Chapter 69-3.
- Removing dash panel insert ⇒ Electrical System; Rep. Gr. 90.
- Release screws -arrows-.
- Release fixing screws -arrows- of the bottom trim panel for steering column pillar -1-.
- Remove top and bottom steering column trim panel.
- Removing restoring ring with slip ring \Rightarrow Chapter 69-3.
- Remove steering-column control ⇒ Electrical System; Rep. Gr. 94.





- Pull off cover -1- from dash panel -2-.
- Removing the left cover is identical to right cover -1-.



70

- Removing light switch ⇒ Electrical System; Rep. Gr. 96.
- Release fuse box from the dash panel.
- Unclip diagnostic connection from glove compartment
 on driver's side -1-.
- Unscrew bolts -3-.
- Remove bottom dash panel -2-.

- Release screws -2-.

For vehicles of model year $03 \succ$ (with switch for the front passenger airbags)

🚺 Note

Apply the safety precautions when carrying out repairs to the airbag system \Rightarrow Chapter 69-3.

 Disconnect the plug connection of the front passenger airbag switch.

For all vehicles

- Disconnect plug connection for the glove compartment lighting.
- Remove glove compartment on front passenger's side
 -3- from the dash panel -1-.
- Removing radio or radio-positioning system
 ⇒ Electrical System; Rep. Gr. 91.
- Removing switch -arrows- ⇒ Electrical System; Rep. Gr. 96.
- Remove covers -2- or cup holder \Rightarrow Chapter 68-2.
- Lever off inner part of centre console -1-.





- Pull off trim for heater control -3-.
- Release screws -4-.
- Release heater control -2- from dash panel -1-.



 Unscrew screws -arrows- and release the centre part ► of the dash panel -1-.



- Remove screws -arrows- and remove holder -1-.
- Remove warning light switch \Rightarrow Electrical System; Rep. Gr. 96.



S70-0220

- Screw out screws -arrows- (tightening torque 2 Nm).
- Pull off dash panel -1- from cross member -2- and remove from the vehicle.

Installing dash panel

Installation is carried out in the reverse order.

i Note

If the airbag warning light -K75- signals a fault after assembly, erase the fault memory with fault reader - V.A.G 1551- and interrogate again \Rightarrow Chapter 01-5.

For vehicles of model year $03 \succ$ (with switch for the front passenger airbags)

- Switch off the ignition before attaching the battery.

Nobody should be in the vehicle when the battery is being connected.

) Note

If the battery earth strap is disconnected and connected, carry out a few additional operations \Rightarrow Electrical System; Rep. Gr. 27.

Removing and installing the central tube/dash panel

Removing the central tube/dash panel

i Note

The work sequence may differ slightly on individual models depending on the equipment version.

- Removing dash panel \Rightarrow 70-1 page 1.
- Removing window blower and dash panel vents in centre, on driver's and front passenger's side
 ⇒ Heating and Air Conditioning; Rep. Gr. 80.
- Removing the footwell vent ⇒ Heating and Air Conditioning; Rep. Gr. 80.
- Release all necessary earth connections and all wiring loom retaining clips.
- Remove relay holder ⇒ Electrical System; Rep. Gr. 97.
- Remove fixing screws for heater module carrier -arrows- (12 Nm).





- Remove screws -arrows- for dash panel support (4 Nm).
- Removing the fixing screws for the steering column on the central tube of the dash panel ⇒ Running Gear; Rep. Gr. 48.



 Remove fixing screws for central tube/dash panel -ar rows- (12 Nm).

Installing the central tube/dash panel

Installation is carried out in the reverse order.

Removing and installing the convenience system central control unit

Removing



Note

The convenience system central control unit is located below the dash panel (in area above accelerator pedal) in the bracket at the dash panel support.

- Remove the glove compartment on the driver's side \Rightarrow 70-1 page 1.
- Removing the footwell vent \Rightarrow Heating and Air Conditioning; Rep. Gr. 80.
- Disconnect the control unit plug for convenience system.
- Remove the control unit for convenience system from the holder towards the front and downwards.

Installing





70-2 Door trim panels

Summary of components of front door trim panels

- 1 Door
- 2 Plastic spreading nut
- 3 Recessed handle cover
- 4 Recessed handle
- 5 Door trim panel
 - removing and installing $<math display="block"> \Rightarrow 70-2 \text{ page 1}$
- 6 4 Nm
- 7 Screw
- 8 Window crank
- 9 Base for window crank
- 10 Cover
- 11 Screw
- 12 Trim
- 13 Plastic spreading nut
- 14 Clip



WARNING!

Before working on the electrical system: Disconnect earth strap of the battery.

Removing and installing the front door trim panel

Special tools, test and measuring equipment and auxiliary items required

• The recessed handle removal tool -V 19L 193-

Removing

 Place the removal tool -V 19L 193- in the opening of the lower part of the recessed handle -arrow A- in such a way that the retaining lug of the removal tool tangibly interlocks with the recessed handle cover.

 Pull out the removal tool -V 19L 193- from the door trim panel -arrow B- and release the recessed handle cover -1- upwards.



 Slide recessed handle -1- cover forward -arrow- and lift off from door handle -2-.



- Slide spacer ring -3- of the window crank towards -ar- row A-.
- Remove window crank -1- from window lifter -2-, -arrow B-.



- Unclip trim -1-.
- Release screws -arrows-.
- Unclip door trim panel -2- at the sides.
- Unhook the activation control cable of the door opener.
- Disconnect plug connection for clearance light -3-.
- Remove door trim panel -2-.

Installing

Installation is carried out in the reverse order.



Summary of components of rear door trim panels

- 1 Door
- 2 Recessed handle cover
- 3 Recessed handle
- 4 Clip
- 5 4 Nm
- 6 Window crank
- 7 Door trim panel
 □ removing and installing ⇒ 70-2 page 4
- 8 Cover
- 9 Screw
- 10 Trim
- 11 Adjusting nut



Removing and installing the rear door trim panel

Removing

- Place the removal tool -V 19L 193- in the opening of the lower part of the recessed handle -arrow A- in such a way that the retaining lug of the removal tool tangibly interlocks with the recessed handle cover.
- Pull out the removal tool -V 19L 193- from the door trim panel -arrow B- and release the recessed handle cover -1- upwards.
- Unclip trim -1-.
- Release screws -arrows-.
- Unclip door trim panel -2- at the sides.
- Unhook the activation control cable of the door opener.
- Remove the door trim panel -2- and unplug the relevant plug connections.

Installing

Installation is carried out in the reverse order.

Removing and installing the rear door trim panel (Praktik)

Special tools, test and measuring equipment and auxiliary items required

• The door trim panel removal tool -MP 8-602/1-

Removing

 Unclip the door trim panel -3- at the sides using door ► trim panel removal tool -MP 8-602/1- -2-.



Do not damage the painted surfaces.

Remove door trim panel -3-.

Installing

- Insert clips -2- into the door trim panel -3-.
- Apply adjusting washers -4- toi clips -2-.
- Fix the door trim panel -3- to the door -1-.







70-3 Pillar and side trim panels

Removing and installing top trim panel of pillar A

Removing

- Pull off door seal -3- from pillar side A.
- Pull off top trim panel -1- from pillar A.

Installing

Installation is carried out in the reverse order.

 When fitting the trim panel replace clips -2- in the top trim panel of pillar A, or replace with new ones.

Removing and installing bottom trim panel of pillar A

Removing

Only applies for removing and installing bottom left trim panel of pillar A:

- Remove engine bonnet release lever.

Applies for left and right side

- Pull off bottom trim panel -1- of pillar A.

Installing

Installation is carried out in the reverse order.

 Before installing the trim panel, replace clips -2- in bottom pillar trim panel A -1- or fit new clips.



1

2

70

Summary of components of trim panels of pillar B

1 - Top trim panel

- **u** removing:
- Removing seat belt deflection \Rightarrow Chap. 69-1.
- Remove top trim panel starting from the top of pillar B.
- Installing:
- When fitting the trim panel replace clips ⇒ item 3 in the trim panel of pillar B or replace with new ones.

2 - Bottom trim panel

3 - Clips

4 - Door seal

after removing and installing the trim panels, place the seal in the correct position



Removing and installing bottom trim panel of pillar B

Removing

• Top trim panel of pillar B removed

- Pull off top part of bottom trim panel -1- in direction of the tailgate.
- Insert a long screwdriver into the retaining clips and release the clips -Arrow A-.
- Grab the trim panel -1- at the loose part and loosen bottom part of trim panel by pulling upwards -Arrow B-(if necessary slacken with screwdriver).

Installing

- Recondition the clips \Rightarrow item 3 in 70-3 page 2 in the trim panel of pillar B or replace with new ones.
- Press trim panel -1- with clips into pillar B.
- Place door seal into the correct position.

Removing and installing top trim panel of pillar C



Note

The procedure for removing and installing the top trim panel of pillar C on Fabia Saloon is similar.

Removing

- Removing seat belt deflection \Rightarrow Chap. 69-1.
- Remove top trim panel starting from the top of pillar C.

Installing

Installation is carried out in the reverse order.

- When fitting the trim panel replace clips -2- in the trim panel of pillar C or replace with new ones.

Removing and installing bottom trim panel of pillar C



Note

The procedure for removing and installing the bottom trim panel of pillar C on Fabia Saloon is similar.





Removing

70

- Unscrew nuts -2-.
- Swivel out the bottom of trim panel C -1- from the luggage compartment cover support.

Installing

Installation is carried out in the reverse order.

Removing and installing top trim panel of pillar C (Fabia Combi)

Removing

- Partly release the fixing nuts at the bottom of the trim panel of pillar C \Rightarrow 70-3 page 3 and loosen trim panel.
- Unscrew fixing screw -arrow- and pull off trim panel from the top of pillar C.

Installing

Installation is carried out in the reverse order.

 When fitting the trim panel replace clips in the trim panel of pillar C or replace with new ones.



S70-0239

Removing and installing top trim panel of pillar D

Removing

- Release the fixing screw -arrow- of the top trim panel
 of pillar D.
- Pull off top trim panel from pillar D.

Installing

 When fitting the trim panel replace clips in the trim panel of pillar D or replace with new ones.

Installation is carried out in the reverse order.

Removing and installing the base plate (notchback)

Removing

- Pull out seat bench and tilt forward.
- Remove bolt from fitting at bottom of seat belt \Rightarrow Chap. 69-1.
- Fold the rear seats forwards.
- Remove top \Rightarrow 70-3 page 3 and bottom \Rightarrow 70-3 page 3 trim panel of pillar C.
- Unscrew the two screws -2- (1.5 Nm) attaching the base plate -3-.
- Run seat belt through the opening in the base plate.
- Take off door seal in the area of the base plate.
- Separate plug connections for rear speakers and take out base plate.

Installing

Installation is carried out in the reverse order.



S70-0243

Summary of components of entrance plate

1 - Entrance plate

- **u** removing:
- Remove bottom trim panel of pillar A \Rightarrow Chapter 70-3.
- Remove bottom trim panel of pillar $B \Rightarrow$ Chapter 70-3.
- Release entrance plate with clips \Rightarrow item 2 and \Rightarrow item 3 pull out upwards.
- □ Installing:



Rework the new spare part for the vehicles Fabia Praktik according to \Rightarrow Fig. 1 in 70-3 page 6

- Insert clips ⇒ item 2 and ⇒ item 3 into the entrance plate.
- Press the entrance plate with clips onto the holder.
- 2 Clip
- 3 Plastic clip
- 4 Door seal
- 5 Carpet



Fig. 1: Rework entrance plate for the Fabia Praktik

 Separate the stay from the entrance plate before installing the new spare part -arrow-.



Removing and installing the tailgate/luggage compartment cover (Praktik)

Removing

- Release screws -1- (5 Nm).
- Remove cover -2-.

Installing



70-4 Door trim panels in the luggage compartment

Summary of components of luggage compartment cover

- 1 Screw
- 2 Support for luggage compartment cover
 - □ removing:
 - Release screws \Rightarrow item 1.
 - Pull off support from the top of trim panel of pillar C.

□ Installing:

- 3 Insert nut
- 4 Bracket



Summary of components of side trim panel of luggage compartment

1 - Side luggage compartment cover

- □ removing:
- Release seat bench and backrest and fold forward.
- Remove luggage compartment side trim panel with retaining clips ⇒ item 2 from body flange ⇒ item 3.
- Installing:
- Draw securing eyes
 ⇒ item 4 and backrest latch
 ⇒ item 5 through the relevant openings -arrows- in the luggage compartment side trim panel.
- Attach luggage compartment side trim panel with retaining clips ⇒ item 2 to body flange ⇒ item 3.
- 2 Retaining clip
- 3 Body flange
- 4 Securing eyes for the net.
- 5 Backrest latch



Removing and installing bases for luggage compartment floor

Removing

- Fold seat bench and backrests at the rear forwards \Rightarrow Chapter 72-2.
- Pull out the base for the luggage compartment floor
 -1- towards the top.

Installing



Summary of components of rear cargo opening cover

1 - Cargo opening cover right

- Left cargo opening cover is a mirror image
- **u** removing:
- Remove centre cargo opening cover \Rightarrow item 4.
- Separate right cargo opening cover from clips \Rightarrow item 2.
- Installing:
- Before installing the trim panel check the clips \Rightarrow item 2 and if necessary replace.

2 - Clip

3 - Nut

- 4 Centre cargo opening cover
 - **u** removing:
 - Release the screws \Rightarrow item 6.
 - Release the nuts \Rightarrow item 5.
 - □ Installing:
 - Installation is carried out in the reverse order.
- 5 Nut
- 6 Screw



Summary of components of trim panels of tailgate

- 1 Tailgate
- 2 Insert nut
- 3 Opening for pull loop
- 4 Trim panel of tailgate
 - □ removing:
 - Pull off trim panel of tailgate.
 - □ Installing:
 - Correctly insert retaining clips.
 - Insert tailgate trim panel in left \Rightarrow item 8 and right \Rightarrow item 10 trim panel.
 - Clip trim panel into tailgate.

5 - Screw

6 - Pull loop

- $\label{eq:must} \begin{array}{l} \square & \mbox{must be pulled through open-} \\ & \mbox{ing} \Rightarrow \mbox{item 3 when installing} \\ & \mbox{trim panel} \Rightarrow \mbox{item 4} \end{array}$
- 7 Buffer

8 - Trim panel right

- □ removing:
- remove trim panel in the middle \Rightarrow item 9.
- Pull off trim panel.
- □ Installing:
- Correctly insert retaining clips.
- Clip right trim panel into tailgate.
- replace if damaged
- 9 Centre trim panel
 - □ removing:
 - Pull off trim panel.
 - Installing:
 - Correctly insert retaining clips.
 - Clip centre trim panel into tailgate.
 - replace if damaged

10 - Trim panel left

- □ removing:
- remove trim panel in the middle \Rightarrow item 9.
- Pull off trim panel.
- □ Installing:
- Correctly insert retaining clips.
- Clip left trim panel into tailgate.
- replace if damaged



Removing and installing holder for luggage compartment cover (estate car)

Removing

- Unclip belt from holder for luggage compartment cover -1-.
- Release screws -arrows-.
- Unclip and pull off the light -2-.
- Disconnect plug connections of loudspeakers possibly fitted at rear.
- Pull out the holder for luggage compartment cover -1-.

Installing

 Before installing check and if necessary replace the clips of the holder for the luggage compartment cover.

Installation is carried out in the reverse order.

Removing and installing the side luggage compartment trim panel (estate car)

Removing

- Release seat bench and backrest and fold forward.
- Unclip and pull off the 12 V plug socket -3-.
- Screw off the nuts -1- (1.5 Nm).
- Release the side luggage compartment trim panel from the top section of the holder for the luggage compartment cover and release from the securing eyes and remove the side luggage compartment trim panel -2-.

Installing





Removing and installing the bonnet at the rear (Praktik)

Removing

- Release screws -1- (5 Nm).
- Take out the trim panel -2-.

Installing

Installation is carried out in the reverse order.

Removing and installing the bonnet at the rear (Praktik)

Removing

- Release screws -2- (5 Nm).
- Remove the trim panel -1-.





Installing

- Glue on the trim panels of the sound proofing -1- on the tailgate.
- Glue on the trim panels of the sound proofing -2- on the inner side of the tailgate.
- Run retaining strap -3- through the opening in the tailgate trim panel.
- Screw on the bonnet.



Removing and installing the finishing strip

Removing

- Release screws -2- (1.5 Nm).
- Remove the strip -1-.

Installing



70-5 Moulded headliner

Removing and installing moulded headliner

Removing

- First check whether a radio set with anti-theft coding has been fitted. If this is the case obtain coding.
- Disconnect earth strap of the battery.

For vehicles with sliding roof

- Remove E-drive cover -1- with assembly tool -3409-.
- Remove light covering -1- in -direction of arrow-.





- Remove screws -arrows- and remove the lamp with rotary switch.
- Disconnect plug connection from rotary switch and remove rotary switch from the lamp.
- Place the lamp to the side.

Continued for all vehicles



- Removing top trim panel of pillar $B \Rightarrow$ Chap. 70-3.
- Removing trim panel of pillar A \Rightarrow Chapter 70-3.
- Removing top trim panel of pillar C \Rightarrow Chap. 70-3.
- Pull off the trim of the sliding roof opening (only for vehicles with a sliding roof).
- Removing recessed handles \Rightarrow Chap. 68-3.
- Loosen the cover strip -3- downwards and pull away from roof frame.
- Remove sun visors \Rightarrow Chap. 68-2.
- Remove plugs -4- with special tool -MP 8-602/1-.
- With the assistance of a second mechanic (risk of fracture) lower the moulded headliner -2- and remove from vehicle.

Note

The procedure for removing and installing the moulded headliner on Fabia Combi is similar.

Installing

Note

- Before fitting the cover strip -3- pay attention to the correct fitting position of the clips -6- .
- A spacer -1- is stuck to the front side of the moulded headliner (on vehicles without tilting roof).
- Pay attention to the correct fit of the seal -5-.

Removing and installing the moulded headliner (Praktik)

Removing

- Removing moulded headliner storage area ⇒ Chapter 68-2.
- Remove interior lighting ⇒ Electrical System; Rep. Gr. 96.
- Remove sun visors \Rightarrow Chap. 68-2.
- Removing recessed handle on front passenger side \Rightarrow Chap. 68-3.
- Remove the top trim panels of pillars A ⇒ Chapter 70-3.
- Removing top trim panels of pillars $B \Rightarrow$ Chap. 70-3.
- Remove rear interior lighting -1- using assembly tool
 -2- -3409-.
- Removing the finishing strip \Rightarrow Chapter 70-4.
- Remove the partition panel \Rightarrow Chapter 68-4.





- Release screws -arrows- (1.5 Nm).



 With the assistance of a second mechanic (risk of fracture) lower the moulded headliner -1- and remove from vehicle.

Installing

Summary of components of the moulded headliner noise insulation panels (Fabia Combi)

- 1 Roof
- 2 Noise insulation panel
 - adhesive
- 3 Moulded headliner



72 – Seat racks

72-1 Front seats

Removing and installing the front seats

Removing



- The seat is removed together with the guide rails.
- Additional operations should be carried out after the battery earth strap has been disconnected and connected ⇒ Electrical System; Rep. Gr. 27.

Vehicles with side airbags or seat heating

When manipulating a seat fitted with a side airbag observe the safety instructions \Rightarrow Chapter 69-3.

- Disconnect earth strap of the battery.
- Disconnect the plug connection for seat heating (if ap- ▶ plicable) -arrow A-, side airbag -arrow B- and seat belt buckle signalling -arrow C- beneath the seat.

All vehicles

- Slide seat backwards.
- Screw out securing screws -1- (24 Nm).
- Slide seat forwards.



- Release fixing screws at rear -2- (24 Nm).
- Remove seat from vehicle.

Installing

Installation is carried out in the reverse order.

Vehicles with side airbags

- Switch off the ignition before attaching the battery.

Nobody should be in the vehicle when the battery is being connected.

Removing and installing the grip for the seat height adjuster

Removing

- Remove caps -3-.
- Release screws -2- (5.5 Nm).
- Remove seat height adjustment handle -1-.

Installing

Installation is carried out in the reverse order.

Removing and installing the backrest rack for the seat rack

Removing

- Remove front seat \Rightarrow 72-1 page 1.
- Remove seat height adjustment handle ⇒ 72-1 page 2.
- Remove adjusting knob -1-.
- Release screws -2-, caps -3-, -5- and glove compartment from seat rack.

Vehicles with side airbags or seat heating







- Disconnect the plug connections for seat heating (if applicable) -3- and -4- and for side airbag -2- underneath the seat from the plug connection.
- Disconnect the plug connection (if applicable) on the heating control.
- Loosen and cut through the terminals of the electric cable -1- underneath seat.



 Loosen and cut through the terminals of the electric cable for backrest heating and airbag unit -1- and -2at the side of the seat.

i Note

For the terminal -1- observe mounting position -arrow-.

All vehicles



- − Release screws -1- on both sides of the seat (18 Nm).
- Remove backrest rack from seat rack.

Installing

- Installation is carried out in the reverse order.



Note

Observe the mounting position of the terminals of the electric wiring.

Vehicles with side airbags

- Switch off the ignition before attaching the battery.



Nobody should be in the vehicle when the battery is being connected.

When manipulating a seat fitted with a side airbag observe the safety instructions \Rightarrow Chapter 69-3.

Removing and installing seat height adjusting elements

Removing

- Remove front seat \Rightarrow 72-1 page 1.
- Put seat in top position.
- Remove seat height adjustment handle \Rightarrow 72-1 page 2.
- Remove adjusting knob -1-.
- Release screws -2-, caps -3-, -6- and glove compartment -5- from seat rack.
- Remove springs -4-.
- Release (10 Nm) screws -arrows- and pull out seat height adjusting elements -1-.

Installing




72-2 Rear seats

Removing and installing seat bench and backrest

Removing seat

- Pull seat forwards and fold open -arrows-.
- Push out hooks -1- from lugs -2- and remove seat
 from vehicle.

Installing seat

Installation is carried out in the reverse order.





Removing backrest

- Unlock both backrest parts and fold over.
- On the right outer side of the backrest press in the catch hook -1- with a screwdriver and pull out backrest parts -2- from the clip -3- towards the top.
- Remove the inside parts of the backrests -2- from the centre clip -4- under the cap -5-.



Removing and installing the rear armrests

Removing

 Tilt forward the backrest -1-, unlock the cover -2- and ▶ unhook out of the clips -arrows-.

Installing

Installation is carried out in the reverse order.



74 – Seat Upholstery, Covers

74-1 Front seat upholstery and covers

Assembly overview of covers and upholstery for front seats

Special tools, test and measuring equipment and auxiliary items required

- Upholstery retaining clip pliers, e.g. -V.A.G 1634-
- Upholstery reamer, e.g. -V.A.G 1636-

1 - Cover

- □ removing:
- Removing backrest \Rightarrow Chapter 72-1.
- Remove clamping section
 -4- from seat rack -5-.
- Cut through upholstery retaining clips -3-.
- Remove cover from seat rack.
- Let the installation occurs in reverse order.

2 - Plastic cord

- □ sewn to cover
- with holes for inserting retaining clips -3-
- 3 Upholstery retaining clip
- 4 Clamping section
- 5 Seat rack
- 6 Upholstery wire
 - fixed to seat foam padding

7 - Seat foam padding

- □ removing:
- Removing backrest \Rightarrow Chapter 72-1.
- Remove clamping section
 -4- from seat rack -5-.
- Cut through upholstery retaining clips -3-.
- Pull off the cover -1- from the seat rack.
- Remove foam padding.
- □ the installation occurs in reverse order.



Assembly overview of covers and upholstery for backrests

Vehicles with side airbag and seat heating

i Note

Two mechanics are required to fit the cover.

Observe the safety instructions for working with airbags \Rightarrow Chapter 69-3.

Only use the recommended cover with a sewn on identification label for installation purposes.

When installing observe the position of the coverthe identification label must be on the side of the airbag unit.

1 - Headrest guides

- **u** removing:
- When removing press safety catch -arrow A-, e.g. with a specially adapted screwdriver and remove the guides.
- Let the installation occurs in reverse order.
- 2 Backrest rack
- 3 Longitudinal wire of the backrest rack
- 4 Transverse wire of the backrest rack
- 5 Airbag unit
 - □ removing and installing ⇒ Chapter 69-3
- 6 El. wire of airbag unit
 - □ removing and installing ⇒ Chapter 69-3
- 7 Terminal el. wire airbag
 - □ removing and installing ⇒ Chapter 69-3
- 8 Foam padding wire of backrest rack

9 - Retaining clips

- when installing cut through with pliers
- □ to install use upholstery pliers, e.g. -V.A.G 1634-
- 10 El. wire of the heating element
- 11 Heating element
- 12 Cover
 - removing:
 - Remove headrest guides -1-.
 - Fully unhook clamping section -14- at the bottom cover side.



- Remove cover up to approx. $1/_4$.
- Remove dummy plugs from the holes in the bottom section of the backrest and unhook the longitudinal wires of the backrest rack -3-.
- Cut through upholstery retaining clips -9-.
- Draw the heating cable through the cover.
- Unhook tensioning elastics.
- Roll up cover.
- Section the second row of retaining clips -9-.
- Unhook the transverse wire of the backrest rack -4- at the rear of the backrest side.
- Section the longitudinal wire retaining clips of the backrest.
- Unhook the longitudinal wire of the backrest at rear and pull through to the front.
- Roll up cover and section the longitudinal wire retaining clips.
- Remove cover from backrest.

13 - Plastic cord

- □ sewn with cover -12-
- □ with holes for retaining clips -9-
- 14 Clamping section of cover

15 - Upholstery

□ remove from backrest rack

74-2 Rear seat upholstery and covers

Assembly overview of covers and upholstery for rear seats

1 - Cover

- □ removing:
- Unhook clamping section -3from wire frame -7-.
- Section upholstery retaining clips -5- and remove cover from upholstery -6-.

2 - Plastic cord

- sewn to cover -1-
- with holes for inserting retaining clips -5-
- 3 Clamping section
- 4 Wire
 - □ sewn onto foam padding -6-
- 5 Retaining clips
- 6 Foam upholstery
- 7 Rack
- 8 Hook
 - □ for seat bench attachment



Assembly overview of covers and upholstery for rear backrest

- 1 Headrest
- 2 Tension spindle
- 3 Guide
 - press catch peg with a screwdriver and remove guide
- 4 Sealing sleeve
- 5 Guide
- 6 Foam upholstery

remove from rear

- 7 Wire
 - □ sewn into upholstery
- 8 Cover
 - the cover is attached by clamping section -10- at the rear and to the foam upholstery -6- by clips -12-.

9 - Rear panel

- 10 Clamping section
- 11 Plastic cord
 - □ sewn to cover -8-
 - with holes for inserting retaining clips -12-
- 12 Retaining clip

