Technical Bulletin

Subject: Central Locking System

Group: 01

Number: 96–11

Model(s): Cabriolet

m.y. 97 ▶

Date: Nov. 29, 1996

The following Repair Manual pages are new and will be integrated with the next Repair Manual update.

Remote unit for central locking operation, coding and erasing

Memory addresses, coding

On vehicles with remote-control central locking, every new or non-encoded remote unit must first be re-coded for the central locking control module.

– Switch ignition on; leave key in ignition.

– Mechanically lock vehicle at left front door, using second key.

– On remote unit, press “Open” button once. A short horn signal will sound.

Note:

- *The “Open” button is pressed once for programming the first, or a single, remote unit.*
- *When programming additional remote units for the second, third or fourth memory addresses, press the “Open” button two, three or four times, in one-second intervals.*
- *Example: press the “Open” button once, wait 1 second, then press once again to program the second remote unit.*

– After 6 seconds, press “Open” button once to activate the coding process.

The remote unit will now be coded, and it can be used to unlock the central locking system.

– Switch ignition off.

Note:

The key must be removed from ignition before the remote unit can be used to lock the vehicle.

The coding process can be repeated up to 4 times for additional remote units. In between each remote unit coding, the ignition must be switched off.

Memory addresses, erasing

Note:

It is possible to erase the memory, e.g. if the customer has lost a remote unit. Proceed as follows.

– Switch ignition on with key.

– Mechanically lock vehicle at left front door, using second key.

– On remote unit, press “Open” button 5 times in one-second intervals. A short horn signal will sound.

– Then after 6 seconds, press “Open” button once to activate memory erasing process.

Memory is now erased, and the central locking system can no longer be operated by the remote unit.

– Switch ignition off.

As many as 4 new remote units can now be coded ⇒ page 1.

Central locking system, On Board Diagnostic (OBD)

General information

The new generation of central locking system has On Board Diagnostic (OBD) capabilities.

Troubleshooting is made easier using Diagnostic Trouble Code (DTC) memory, the output Diagnostic Test Mode (DTM), and “Read Measuring Value Block” function 08. The central locking system version can also be coded using the VAG 1551 Scan Tool (ST).

“Comfort opening” and “comfort closing” functions are possible with the new central locking system. Using the “comfort closing” function, you can close any open windows and the sunroof by holding the key in the “close” position until everything is closed.

To use the “comfort opening” function, hold the key in the “open” position until the windows open. “Comfort closing” cannot be used on the rear lid and luggage compartment locks.

The central locking system has two pneumatic circuits. The first circuit connects the driver’s door and the fuel tank flap. The second circuit connects the remaining locking locations.

With the safety central locking system, when first unlocking driver and passenger doors, only these and the first pneumatic circuit are opened. If the system receives another unlocking command within 5 seconds, the second pneumatic circuit will also be triggered and the entire vehicle will be unlocked.

If the rear lock is operated only once, the driver and passenger doors remain locked. After approx. 5 seconds the rear lid and/or luggage compartment flaps are re-locked automatically.

The interior lighting is brightened or dimmed within approx. 15 seconds. Luggage compartment illumination is controlled by the central locking pump using the rear lid or luggage compartment contact switches. When the rear lid is open, the illumination is switched off after a speed threshold is exceeded (approx. 5 km/h or 3 mph).

Remote-control system changes, m.y. 1997 ➤

- The radio-frequency operated receiver is now a part of the central locking/alarm system/interior light delay control module -V94-, integrated with the central locking pump. The separate central locking system control module for remote control operation is discontinued.

- The antenna of the radio-frequency operated remote control is integrated into the wiring harness.

If no door or lid is opened within 60 seconds after the central locking system is opened using a radio-frequency operated remote unit, the central locking system locks again.

If the anti-theft warning system is set, the central locking system can not be opened using the interior switch.

Confirmation can be set to trigger a short tone of the anti-theft warning system horn or brief operation of the 4-way flashers. The central locking can also be coded in such a way that there is no confirmation.

Confirmation of radio-frequency operated remote control can be displayed by triggering the 4-way flashers.

Central locking system, On Board Diagnostic (OBD)

Test requirements

- Fuses OK (check using appropriate wiring diagram)
- VAG 1551 Scan Tool (ST) connected ⇒ page 41.

Notes:

- *If the display is blank, check voltage supply to VAG 1551 scan tool using the wiring diagram.*
- *Additional operating instructions can be obtained by using the HELP button on the Scan Tool.*
- *Press the → button to advance the program sequence.*
- *Incorrect input can be cancelled using the -C- button.*
- *"Automatic Test Sequence" address word 00 can be carried out in "Rapid data transfer" operating mode 1. In this program, DTC memory of all of the vehicle's control modules are automatically checked.*

– Switch printer on by pressing the Print button, indicator light in button lights up.

– Press button -1- for "Rapid data transfer" operating mode 1.

Rapid data transfer	HELP
Insert address word XX	

◄ Indicated on display

Address word 35: Central Locking

– Press buttons -3- and -5- to insert “Central Locking” address word 35.

Rapid data transfer Q

◄ Indicated on display

– Press -Q-button to confirm input.

8L0862257B CV-Pump, Alarm, RC D04 →
Coding 11932 WSC 06812

◄ Indicated on display (after approx. 5 sec.):

Example:

- ♦ 8L0862257B: Control module identification
- ♦ CV-Pump, Alarm, RC: Component designation
- ♦ D04: Software version
- ♦ Coding 11932: Control module coding
- ♦ WSC 06812: Dealership code

– Press → button to advance through program sequence.

Rapid data transfer HELP Control module does not answer	◄ If one of these messages is indicated on the display:
Rapid data transfer HELP Error in communication link	◄
Rapid data transfer HELP K wire not switching to Ground	◄
Rapid data transfer HELP K wire not switching to B+	◄ Troubleshooting wiring connections for Data Link Connector (DLC) ⇒ *Electrical Wiring Diagrams, Troubleshooting & Component Locations* binder
Rapid data transfer HELP Select function XX	◄ Indicated on display – Press HELP button to print out list of possible functions. – Press → button to advance program sequence.

Check DTC memory (function 02)

Note:

The malfunction information displayed is not updated continuously, only when On Board Diagnostic (OBD) program is initiated or with "Erase DTC memory" function 05.

– Press print button to switch printer on, indicator light in the button lights up.

Rapid data transfer HELP Select function XX	◄ Indicated on display

– Press buttons -0- and -2 to select "Check DTC Memory" function 02.

Rapid data transfer Q 02 – Check DTC memory	◄ Indicated on display

– Press -Q- button to confirm input.

X DTC recognized →	◄ Indicated on display (number of malfunctions stored)

The stored malfunctions are displayed in sequence and printed out.

– Go to the DTC table with malfunctions printed out and repair as needed ⇒ page 13.

No DTC recognized →

◄ If “No DTC recognized” the program goes back to the starting position after pressing the → button.

Rapid data transfer	HELP
Select function XX	

◄ Indicated on display

If something else is indicated on the display:
⇒ Operating instructions for scan tool

– Press buttons -0- and -6- to select “End Output” function 06 ⇒ page 27.

– Switch ignition off and disconnect scan tool from Data Link Connector (DLC).

Diagnostic Trouble Code (DTC) table for central locking

Notes:

- *All possible malfunctions recognized by the central locking control module and displayed on VAG 1551 Scan Tool (ST) are listed with a 5-digit DTC.*
- *The malfunction identifier only appears in the print-out.*
- *If switch or activating element malfunctions are stored, troubleshooting should always include checking read measuring value block ⇒ page 36.*
- *Before replacing components recognized with malfunctions, check all related wiring, harness connections and Ground (GND) connections according to the appropriate wiring diagram.*
- *After repairs, always check DTC memory again with VAG 1551 Scan Tool and erase.*
- *All static and sporadic malfunctions are stored in the DTC memory. A malfunction is immediately recognized as static when it is first occurs. If the malfunction is no longer present after that, it is stored as sporadic. "/SP" appears on the right side of the scan tool display.*
- *After switching the ignition on, all the malfunctions present are set as sporadic, and are only stored as static malfunctions if they are still present after the check.*
- *If a sporadic malfunction no longer occurs for 50 driving cycles, it is erased.*

Output on printer of VAG 1551	Possible Malfunction Cause	Malfunction Elimination
01360 Open ATW switch ♦ Short circuit to Ground	♦ Short circuit to Ground (GND) in wiring connection [1)] ♦ Door contact switch–driver's side -F2- faulty	– Repair according to wiring diagram ⇒ *Electrical Wiring Diagrams, Trouble-shooting & Component Locations* binder – Check switch and replace if necessary
01361 Close ATW switch ♦ Short circuit to Ground	♦ Short circuit to Ground (GND) in wiring connection [1)] ♦ Door contact switch–passenger's side -F3- faulty	– Repair according to wiring diagram ⇒ *Electrical Wiring Diagrams, Trouble-shooting & Component Locations* binder – Check switch and replace if necessary

[1)] The malfunction is stored if there is Ground (GND) connection for longer than 1 min., e.g. because of incorrect operation of the central locking. Carry out malfunction repairs only when there are complaints, otherwise just erase the DTC memory ⇒ page 25.

Output on printer of VAG 1551	Possible Malfunction Cause	Malfunction Elimination
01362 Close Switch for Tail-gate–F124 ♦ Short circuit to Ground	♦ Short circuit to Ground (GND) in wiring connection [1)] ♦ Trunk lock alarm/central locking switch -F124- faulty	– Repair according to wiring diagram ⇒ *Electrical Wiring Diagrams, Trouble-shooting & Component Locations* binder – Check switch -F124- and replace if neces-sary
01363 Switch for CL; Drivers Door–F59 ♦ Incorrect signal	♦ This display can appear, depending on the system. There is no malfunction in the driver's door central locking system switch -F59-. [2)]	– Ignore malfunction display and erase DTC memory ⇒ page 25

[1)] The malfunction is stored if there is Ground (GND) connection for longer than 1 min., e.g. because of incorrect op-eration of the central locking. Carry out malfunction repairs only when there are complaints, otherwise just erase the DTC memory ⇒ page 25.

[2)] The malfunction is stored if the input status of the central locking pump has not changed before/after the closing/ opening of central locking system.

Output on printer of VAG 1551	Possible Malfunction Cause	Malfunction Elimination
01364 Switch for CL; Passenger's Door–F114 ♦ Incorrect signal	♦ This display can appear, depending on the system. There is no malfunction in the passenger's door central locking system switch -F114-. [1)]	– Ignore malfunction display and erase DTC memory ⇒ page 25

[1)] The malfunction is stored if the input status of the central locking pump has not changed before/after the closing/opening of central locking system.

Output on printer of VAG 1551	Possible Malfunction Cause	Malfunction Elimination
01365 Lock/Unlock Switch Button Int.		
♦ Short circuit to Ground	♦ Short circuit to Ground (GND) in wiring connection [1)]	– Repair according to wiring diagram ⇒ *Electrical Wiring Diagrams, Troubleshooting & Component Locations* binder
	♦ Switch for interior lock, driver side -E150- faulty	– Check switch -E150- and replace if necessary
♦ Short circuit to B+	♦ Short circuit in wiring connection	– Repair according to wiring diagram ⇒ *Electrical Wiring Diagrams, Troubleshooting & Component Locations* binder
	♦ Switch for interior lock, driver side -E150- faulty	– Check switch -E150- and replace if necessary

[1)] The malfunction is stored if there is Ground (GND) or positive (B+) connection for longer than 1 min., e.g. because of incorrect operation of the central locking. Carry out malfunction repairs only when there are complaints, otherwise just erase the DTC memory ⇒ page 25.

Output on printer of VAG 1551	Possible Malfunction Cause	Malfunction Elimination
01366 Opened Via Crash Signal	♦ Carry out output diagnostic test mode on airbag control module -J234- ♦ Airbag control module -J234- has triggered	– Erase DTC memory ⇒ page 25
01367 Switch on Via CL Pump	♦ Pressure in pneumatic lines too low ♦ Central locking-pump faulty	– Check pneumatic lines for leaks – Check central locking pump – Check all actuating components of central locking and replace if necessary
01368 Alarm Via Luggage Compartment Switch	♦ Anti-theft alarm activated by unauthorized opening of rear lid ♦ Trunk lid alarm switch -F123- is faulty	– Erase DTC memory ⇒ page 25 – Replace contact switch -F123-

Output on printer of VAG 1551	Possible Malfunction Cause	Malfunction Elimination
01369 Alarm Via Bonnet Switch	♦ Anti-theft alarm activated by unauthorized opening of engine hood ♦ Hood alarm switch -F120- is faulty	– Erase DTC memory ⇒ page 25 – Replace contact switch -F120-
01370 Alarm Via Interior Scanning	♦ Output test carried out on control module for ultra-sound sensors -J347- ♦ Anti-theft warning system triggered by triggering of ultrasonic interior monitoring ♦ Malfunction on ultrasonic interior monitor	– Erase DTC memory ⇒ page 25 – Erase DTC memory ⇒ page 25 – Repair using diagnosis of interior monitoring ⇒ Repair Manual, *Electrical Equipment*, Repair Group 96

Output on printer of VAG 1551	Possible Malfunction Cause	Malfunction Elimination
01371 Alarm Via Door Contact Switch Driv. Side	♦ Anti-theft alarm activated by unauthorized opening of driver's door ♦ Door contact switch–driver's side -F2- faulty	– Erase DTC memory ⇒ page 25 – Replace contact switch -F2-
01372 Alarm Via Door Contact Switch Rear PS	♦ Anti-theft warning system triggered by unauthorized opening of passenger's door and/or rear doors ♦ Door contact switches -F3-, -F10-, -F11- faulty	– Erase DTC memory ⇒ page 25 – Replace contact switches -F3-, -F10-, -F11-
01373 Alarm Via Radio Ground Terminal	♦ Anti-theft warning triggered by unauthorized removal of radio ♦ Interruption in Ground (GND) connection for anti-theft warning system	– Erase DTC memory ⇒ page 25 – Connect Ground (GND) connection

Output on printer of VAG 1551	Possible Malfunction Cause	Malfunction Elimination
01374 Alarm Via Terminal 15	♦ Anti-theft system triggered by unauthorized starting (short circuit) ♦ Short circuit between terminal 30 and terminal 15	– Erase DTC memory ⇒ page 25 – Repair according to wiring diagram ⇒ *Electrical Wiring Diagrams, Trouble-shooting & Component Locations* binder
01389 Tailgate Open Switch -F124- ♦ Short circuit to Ground	♦ Short circuit to Ground (GND) in the wiring connection ♦ Trunk lock alarm/central locking switch -F124- faulty	– Repair according to wiring diagram ⇒ *Electrical Wiring Diagrams, Trouble-shooting & Component Locations* binder – Check switch -F124- and replace if necessary

Output Diagnostic Test Mode (DTM) (function 03)

Notes:

- *Output diagnostic test mode can only be carried out with vehicle stopped and engine off.*
- *If a malfunction is found with output DTM, find the cause using troubleshooting procedures and repair.*

During output DTM, the following systems are activated in sequence:

- Anti-theft warning system, i.e. the 4-way flashers and the anti-theft warning horn are activated.
- Ultrasonic interior monitor (not applicable)
- Simulate crash signal, i.e. the interior light and the flasher system are activated.

Initiating output DTM

– Press buttons -0- and -3- to select “Output Diagnostic Test Mode” function 03.

Rapid data transfer Q
03 – Output Diagnostic Test Mode

◄ Indicated on display

– Press -Q- button to confirm input.

Output DTM for ultrasonic interior monitor starts.

Output Diagnostic Test Mode →
Create Active Alarm

◄ Indicated on display

The 4-way flashers and the anti-theft warning horn are triggered by the anti-theft warning system.

– Press → button and alarm is shut off.

Output Diagnostic Test Mode →
Next Final Ctrl: Operate →

◄ Indicated on display

– Press → button.

Function is unknown or cannot be carried out at the moment	◄ Indicated on display – Press → button.
Output Diagnostic Test Mode → Next Final Ctrl: Operate →	◄ Indicated on display – Press → button.
Output Diagnostic Test Mode → Simulate Crash Signal	◄ Indicated on display The flasher system and the interior illumination are triggered. – Press → button.
Output Diagnostic Test Mode → END	◄ Indicated on display – Press → button to end output DTM. The VAG 1551 scan tool returns to “Select function” mode.
Rapid data transfer HELP Select function XX	◄ Indicated on display

Erase DTC Memory (function 05)

Note:

In "Erase DTC Memory" function 05, any malfunctions stored in DTC memory are automatically output. If DTC memory cannot be erased, check DTC memory again and repair malfunctions.

Requirements

- Check DTC memory ⇒ page 11.
- All malfunctions eliminated.

After checking DTC memory

Rapid data transfer HELP Select function XX	◄ Indicated on display – Press buttons -0- and -5- to select "Erase DTC Memory" function 05.
Rapid data transfer Q 05 – Erase DTC Memory	◄ Indicated on display – Press -Q- button to confirm input.
Rapid data transfer → DTC Memory is erased	◄ Indicated on display This means the DTC memory is erased. – Press → button.

Rapid data transfer HELP Select function XX	◄ Indicated on display (VAG 1551 scan tool returns to “Select function” mode)

Note:

Attention! DTC Memory is not erased	◄ *If either of these messages are indicated on the display, the test procedure is not complete.*
Rapid data transfer → DTC Memory is not interrogated	◄

– Follow the test sequence exactly.

– Check DTC memory first, and eliminate malfunctions as necessary. Then erase DTC memory.

End Output (function 06)

– Press buttons -0- and -6- to select “End Output” function 06.

Rapid data transfer Q 06 – End Output	◄ Indicated on display

– Press -Q- button to confirm input.

Rapid data transfer Help Insert address word XX	◄ Indicated on display

– Switch ignition off.

– Disconnect VAG 1551 scan tool from DLC.

Code Control Module (function 07)

The two central locking system variations can be coded according to the possible function/equipment variations.

Central locking system variations:

- Central locking with anti-theft warning system
- Central locking with radio-frequency operated remote control and anti-theft warning system

Notes:

- *Basic functions of the central locking system variations are listed in the standard coding table ⇒ page 29.*
- *If a customer requests a special, individual coding of the central locking system, use the questions ⇒ page 30 to determine the correct system coding.*

Standard coding table

Note:

Always check whether the ultrasonic interior monitor has On Board Diagnostic (OBD) capability (see footnote).

Vehicle type	Central locking variation	Standard coding
Audi Cabriolet	♦ Vehicles with central locking and anti-theft warning system	03228
	♦ Vehicles with central locking, anti-theft warning system and radio-frequency operated remote control	11932

Coding questions for individual central locking functions

Notes:

- *First determine which central locking version this vehicle has (e.g. what central locking and anti-theft warning system).*
- *Please make a copy of the applicable table for the current vehicle.*
- *Answer all questions in the table with "yes" or "no". In the last column, enter your copy of the number of answers.*
- *If in doubt, please ask the customer what central locking functions are desired.*
- *Please total all the results from top to bottom. The total gives the valid control module coding. Add the figures up again as a check.*
- *Examples of coding calculations ⇒ page 33.*

Table I: vehicles with central locking and anti-theft warning system

Vehicles with central locking and anti-theft warning system:	Answer		
1. Is the vehicle an Cabriolet?	No = 0	Yes = 16	16
2. Will the vehicle have a single door opening and a rear lid subsequent locking (safety central locking)?	No = 0	Yes = 4	
3. Will the power windows be shut off with driver's door open and ignition off (USA door locking logic)? (USA = yes)	No = 0	Yes = 2048	2048
4. Is an anti-theft warning system installed in the vehicle?	No = 0	Yes = 8	
5. Will the anti-theft warning system setting be confirmed triggering the 4-way flashers? [1)]	No = 0	Yes = 4096	
6. Will the anti-theft warning system setting be confirmed triggering the anti-theft warning horn? [1)]	No = 0	Yes = 1024	
7. Does the vehicle have ultrasonic interior monitor? (Cabriolet = no)	No = 128	Yes = 0	128
		Total (coding):	

[1)] Only one of questions 5 and 6 can be answered with "yes", but both can be answered with "no".

Table II: vehicles with central locking and anti-theft warning system

Vehicles with central locking, radio-frequency operated remote control and anti-theft warning system:	Answer		
1. Is the vehicle an Cabriolet?	No = 0	Yes = 16	16
2. Will the vehicle have a single door opening and a rear lid subsequent locking (safety central locking)?	No = 0	Yes = 4	
3. Will the power windows be shut off with driver's door open and ignition off (USA door locking logic)? (USA = yes)	No = 0	Yes = 2048	2048
4. Will the anti-theft warning system be activated?	No = 0	Yes = 8	
5. Will the anti-theft warning system setting be confirmed triggering the 4-way flashers? [1)]	No = 0	Yes = 4096	
6. Will the anti-theft warning system setting be confirmed triggering the anti-theft warning horn? [1)]	No = 0	Yes = 1024	
7. Does the vehicle have ultrasonic interior monitor? (Cabriolet = no)	No = 128	Yes = 0	128
8. Will the radio-frequency operated remote control be activated?	No = 0	Yes = 8192	
9. Will the locking/unlocking of central locking system be confirmed with remote control by triggering 4-way flashers?	No = 0	Yes = 512	
10. Will a single door opening and the rear lid subsequent locking (safety central locking) also be possible with the radio-frequency operated remote control?	No = 16384	Yes = 0	
		Total (coding):	

[1)] Only one of questions 5 and 6 can be answered with "yes", but both can be answered with "no".

Example of a special central locking coding

This is a case of an Cabriolet with central locking and anti-theft warning system. A safety central locking system is desired and setting the anti-theft warning system will be confirmed by triggering the 4-way flashers.

Vehicles with central locking and anti-theft warning system:	Answer		
1. Is the vehicle an Cabriolet?	No = 0	Yes = 16	Yes = 16
2. Will the vehicle have a single door opening and a rear lid subsequent locking (safety central locking)?	No = 0	Yes = 4	Yes = 4
3. Will the power windows be shut off with driver's door open and ignition "off" (USA door locking logic)? (USA = yes)	No = 0	Yes = 2048	Yes = 2048
4. Will the anti-theft warning system be activated?	No = 0	Yes = 8	Yes = 8
5. Will setting the anti-theft warning system setting be confirmed by triggering the 4-way flashers? [1)]	No = 0	Yes = 4096	Yes = 4096
6. Will setting the anti-theft warning system setting be confirmed by triggering the anti-theft warning horn? [1)]	No = 0	Yes = 1024	No = 0
7. Does vehicle have ultrasonic interior monitor? (Cabriolet = no)	No = 128	Yes = 0	No = 128
		Total (coding):	6300

[1)] Only one of questions 5 and 6 can be answered with "yes", but both can be answered with "no".

Initiating central locking system coding

Rapid data transfer HELP
Select function XX

◄ Indicated on display

– Press buttons -0- and -7- to select “Code Control Module” function 07.

– Press -Q- button to confirm input.

Code control module
Enter code number XXXXX (0–32000)

◄ Indicated on display

– Enter a valid 5-digit code using buttons (for example 03228).

Note:

Determine the valid coding for the current central locking pump using the standard coding table ⇒ page 29 or the answers for individual coding ⇒ page 30.

Code control module Q
Input code number 03228 (0–32000)

◄ – Indicated on display

– Press -Q- button to confirm input.

8L0862257A CV-Pump, Alarm →
Coding 03228 WSC 06812

◄ Indicated on display

– End coding procedure by pressing the → button.

Rapid data transfer	HELP
Select function XX	

Indicated on display

– Press buttons -0- and -6- to select “End Output” function 06.

Rapid data transfer	Q
06 – End Output	

Indicated on display

– Press -Q- button to confirm input.

Note:

“Read Measuring Value Block” function 08 can be used to check the central locking pump coding in display group 004 ⇒ page 40.

Read Measuring Value Block (function 08)

Initiating read measuring value block

Rapid data transfer	Help
Select function XX	

◄ Indicated on display

– Press buttons -0- and -8- to select “Read Measured Value Block” function 08.

Rapid data transfer	Q
08 – Read measured value block	

◄ Indicated on display

– Press -Q- button to confirm input.

Read measured value block	Help
Input display group number XXX	

◄ Indicated on display

– Input display group number (for example 001) by pressing the buttons and confirm by pressing the -Q- button.

The selected display group is displayed in standardized form.

Read measuring value block 01 →				◀ Indicated on display
0 1 0 0	1 0 0	0 0 0 0	0 0 0 0	
			X	• Rear lid: 1 = open, 0 = closed
			X	• Luggage compartment light: 1 = light on, 0 = light off
			X	• Switch for rear lid unlocking (not applicable): 1 = activated, 0 = not activated
			X	• Motor for rear lid unlocking (not applicable): 1 = motor running, 0 = motor not running
		XX		• Actuator switch and/or interior switch on passenger's door: 00 = not activated, 01 = locking, 10 = unlocking, 11 = not permitted
		XX		• Actuator switch and/or interior switch on driver's door: 00 = not activated, 01 = locking, 10 = unlocking, 11 = not permitted
	X			• Passenger's and back door: 1 = open, 0 = closed (USA: back doors only)
	X			• Driver's door: 1 = open, 0 = closed (USA: driver's and passenger's doors)
	X			• Engine hood: 1 = open, 0 = closed
	Key position in the lock cylinders			
X				• Driver's/passenger's door, unlocking: 1 = key operated, 0 = key in center position
X				• Driver's/passenger's door, locking: 1 = key operated, 0 = key in center position
X				• Rear lid, unlocking: 1 = key operated, 0 = key in center position
X				• Rear lid, locking; 1 = key operated, 0 = key in center position

Read measuring value block 02 →

0 1 0 0 0 1 0 0 0 0 0

◀ Indicated on display

		X • Terminal 15: 1 = ignition on, 0 = ignition off
		X • S-Contact: 1 = S-Contact on, 0 = S-Contact off
		X • Ground signal from radio: 1 = radio installed, 0 = radio removed
	X	• Radio-frequency operated remote unit “Open” button: 1 = activated, 0 = not activated
	X	• Radio-frequency operated remote unit “Close” button: 1 = activated, 0 = not activated
	X	• Radio-frequency operated remote unit “Rear lid” open button: 1 = activated, 0 = not activated (not applicable)
	X	• Radio-frequency operated remote unit “Panic” button (USA only): 1 = activated, 0 = not activated
X		• Interior light control: 1 = interior light on, 0 = interior light off
X		• Control wire for power window/sunroof: 1 = terminal 87 (holding the voltage supply), 0 = ground
X		• “Comfort closing”: 1 = comfort closing activated, 0 = not activated
X		• “Comfort opening” function: 1 = comfort opening activated, 0 = not activated

Display group 003

Read measuring value block 03 →				◀ Indicated on display
0	0 0 0 1	0	0 0 0 0	
			X	• Radio-frequency operated remote unit "Open" button [2]: 1 = activated, 0 = not activated
			X	• Radio-frequency operated remote unit "Close" button [2]: 1 = activated, 0 = not activated
			X	• Radio-frequency operated remote unit "Rear lid" button [2]: (not applicable) 1 = activated, 0 = not activated
			X	• Radio-frequency operated remote unit "Panic" button [2]: (USA only) 1 = activated, 0 = not activated
		X		• Not applicable: 0 = relay open
	X			• Radio-frequency operated remote control memory address 4 [1]: 1 = location assigned, 0 = not assigned
	X			• Radio-frequency operated remote control memory address 3 [1]: 1 = location assigned, 0 = not assigned
	X			• Radio-frequency operated remote control memory address 2 [1]: 1 = location assigned, 0 = not assigned
	X			• Radio-frequency operated remote control memory address 1 [1]: 1 = location assigned, 0 = not assigned
X	• Disregard			

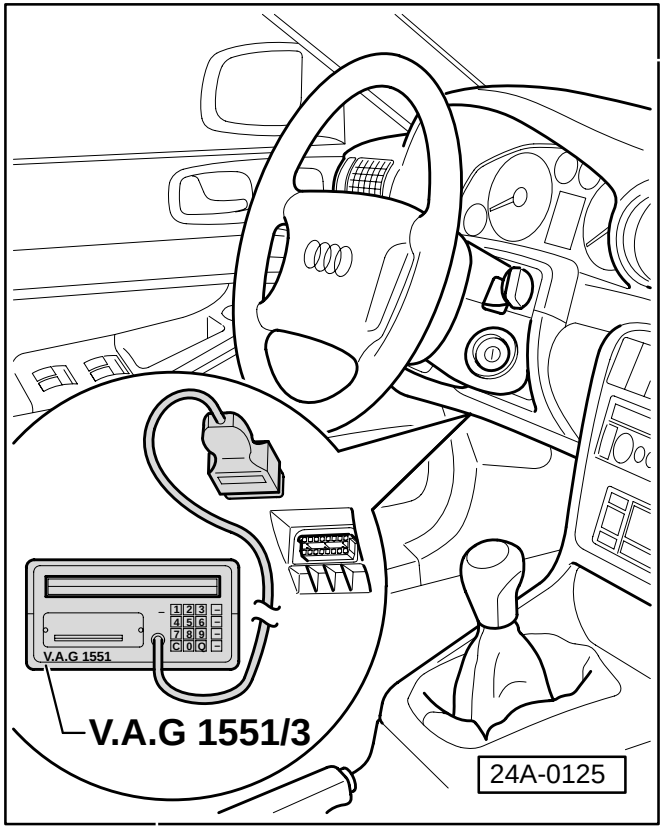
[1] If you operate radio-frequency operated remote unit, corresponding remote control memory address blinks.

[2] This display group also shows un-coded radio-frequency operated remote units (e.g. for a check of the remote unit).

Read measuring value block 04 →				◀ Indicated on display
0 1 0	1 0 0 1	0 0 0 0	0 0 0 0	
			X	• Anti-theft warning system activated: 0 = no, 1 = yes
			X	• Safety central locking activated: 0 = no, 1 = yes
			X	• Disregard: Coding always 0
			X	• Disregard: Coding always 0
		X		• Disregard: Coding always 0
		X		• Disregard: Coding always 1
		X		• Disregard: Coding always 0
		X		• Vehicle is a Cabrio: 0 = no, 1 = yes
	X			• USA door logic coding [1]: 0 = no, 1 = yes
	X			• Confirmation of the anti-theft warning system by way of the 4-way flashers: 0 = no, 1 = yes
	X			• Confirmation of anti-theft warning system by way of anti-theft warning horn: 0 = no, 1 = yes
	X			• Confirmation of the radio-frequency operated remote control by way of the 4-way flashers: 0 = no, 1 = yes
X				• Radio-frequency operated remote control activated: 0 = no, 1 = yes
X				• Operation of safety central locking also possible with radio-frequency operated remote control: 1 = no, 0 = yes
X				• Disregard: Coding always 0

[1] Power window operation is disabled with ignition switched off and driver's door open

VAG 1551 Scan Tool (ST), connecting



Note:

VAG 1552 can be used instead of VAG 1551. However no print-out can be made with VAG 1552.

Test conditions

- Battery voltage (B+) at least 11 volts
- Ground (GND) connections on engine and transmission OK
- Fuse OK

◄ – Connect VAG 1551 (VAG 1552) scan tool to 16-pin Data Link Connector (DLC) to the left of steering column using adapter cable VAG 1551/3.

V.A.G. On Board Diagnostic	HELP
1-Rapid data transfer	
2-Blink code output	

◄ Indicated on display [1)]

[1)] Both operating modes are displayed alternately.

Note:

If display is blank, check voltage supply according to ⇒ "Electrical Wiring Diagrams, Troubleshooting & Component Locations" *binder.*

– Switch ignition on.

– Press PRINT button to turn printer on (indicator light in button lights up).

– Press button -1- for “Rapid data transfer” operating mode 1.

Rapid data transfer	HELP
Insert address word XX	

◄ – Indicated on display

Note:

After inserting “Automatic Test Sequence” address word 00 and confirming with the -Q- button, VAG 1551 carries out a test sequence automatically (checking DTC memory for all systems with rapid data transfer) and switches on the printer.