

## Central locking

### Central locking, components

#### 1 - Door lock actuator, right front

◆ Removing and installing ⇒ [Page 57-30](#)

#### 2 - Door lock actuator, sliding door

◆ Removing and installing ⇒ [Page 57-30](#)

#### 3 - door lock actuator, tailgate

◆ Removing and installing ⇒ [Page 57-32](#)

#### 4 - Door lock actuator, left front

◆ Removing and installing ⇒ [Page 57-30](#)

#### 5 - Door lock actuator, rear

◆ Removing and installing ⇒ [Page 57-32](#)

#### 6 - Control module for central locking

◆ Remove instrument panel to access

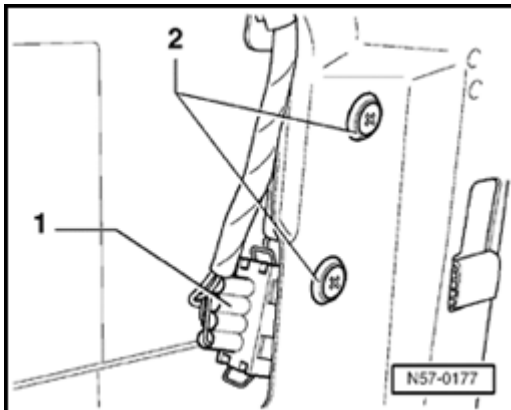


## Door lock actuator, removing and installing (front)

### Removing

- Remove door trim.

⇒ [Repair Manual, Body Interior, Repair Group 70](#)



A

- Disconnect multi-pin connector -1- from actuator.
- Remove screws -2-.
- Disconnect lock rod.
- Remove actuator.

### Installing

- Reinstall actuator in reverse sequence.

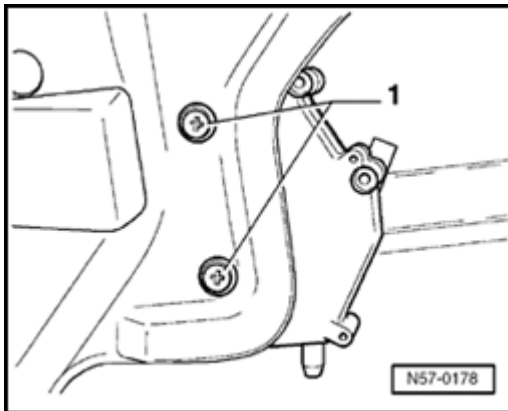


## Sliding door lock actuator, removing and installing

### Removing

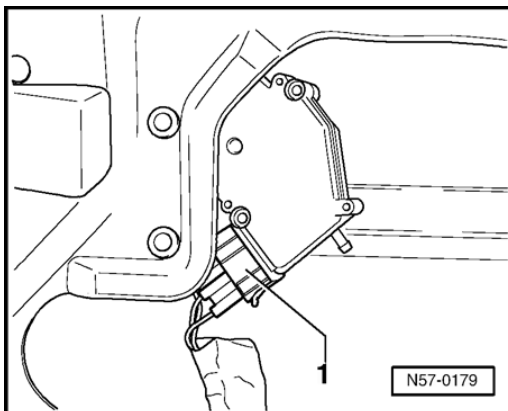
- Remove door trim.

⇒ [Repair Manual, Body Interior, Repair Group 70](#)



A

- Remove screws -1- and lay actuator aside.



A

- Disconnect multi-pin connector -1- from actuator.
- Disconnect lock rod.
- Remove actuator.

### Installing

- Reinstall actuator in reverse sequence.

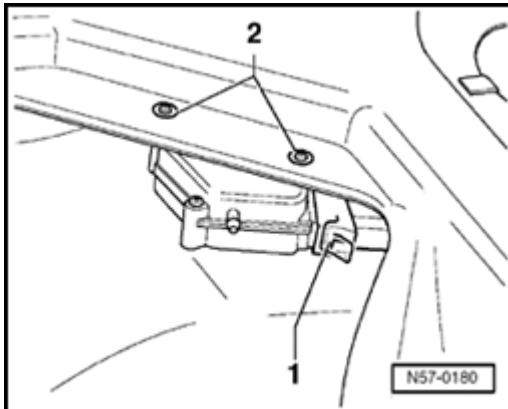


## Tailgate lock actuator, removing and installing

### Removing

- Remove tailgate trim.

⇒ [Repair Manual, Body Interior, Repair Group 70](#)



A

- Disconnect connector -1- from actuator.
- Remove screws -2-.
- Disconnect connecting rod and remove actuator.

### Installing

- Reinstall actuator in reverse sequence.



## Double rear door lock actuator, removing and installing

### Removing

- Remove rear double door trim.

⇒ [Repair Manual, Body Interior, Repair Group 70](#)

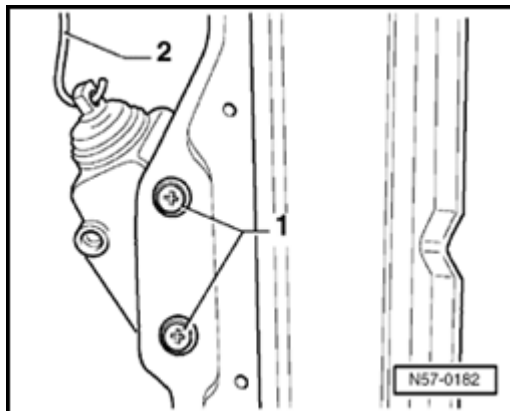
- Disconnect multi-pin connector from actuator.

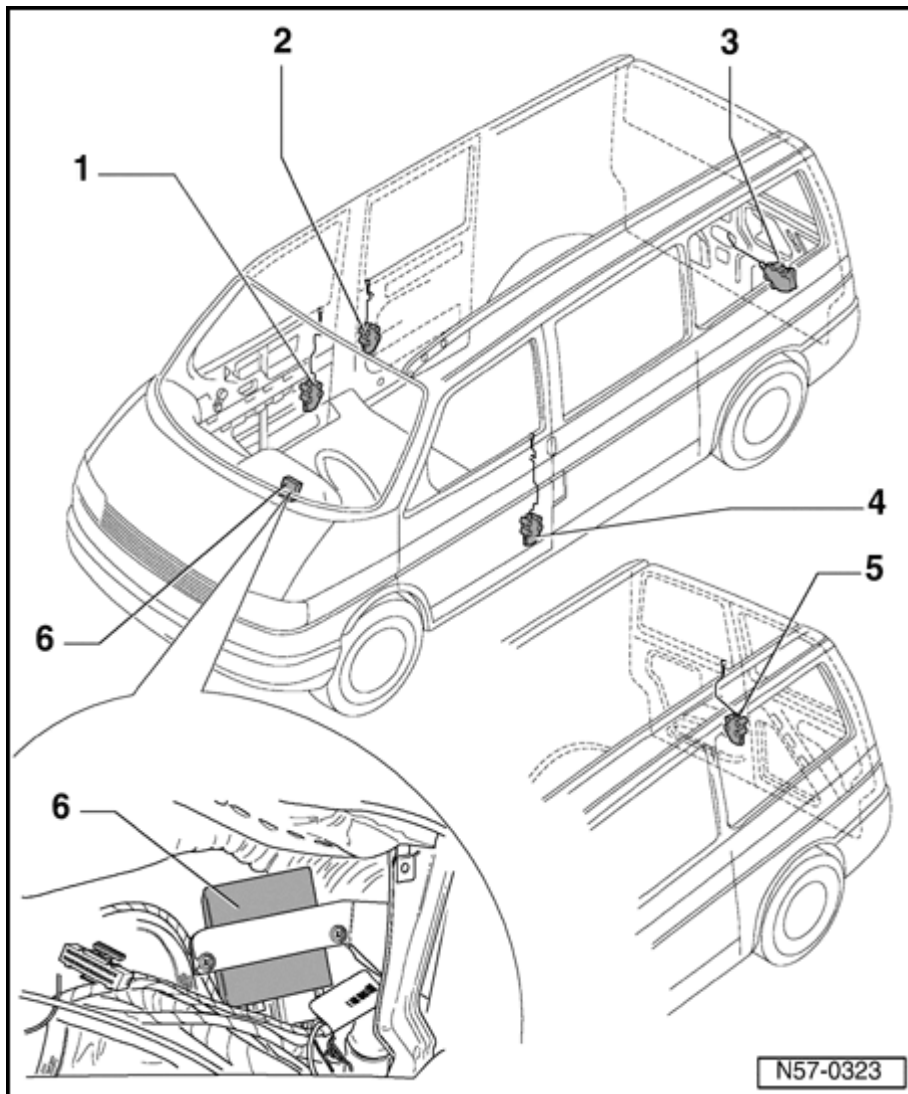
A

- Remove Phillips screws -1-.
- Disconnect connecting rod -2- and remove actuator.

### Installing

- Reinstall actuator in reverse sequence.





## Central Locking System (09.98 through 10.00)

For vehicles from 10.00

⇒ [Repair Manual, Body On Board Diagnostic \(OBD\), Repair Group 01](#)

### Assembly Overview

#### 1 - Front door lock actuator

◆ Removing and installing ⇒ [Page 57-30](#)

#### 2 - Sliding door lock actuator

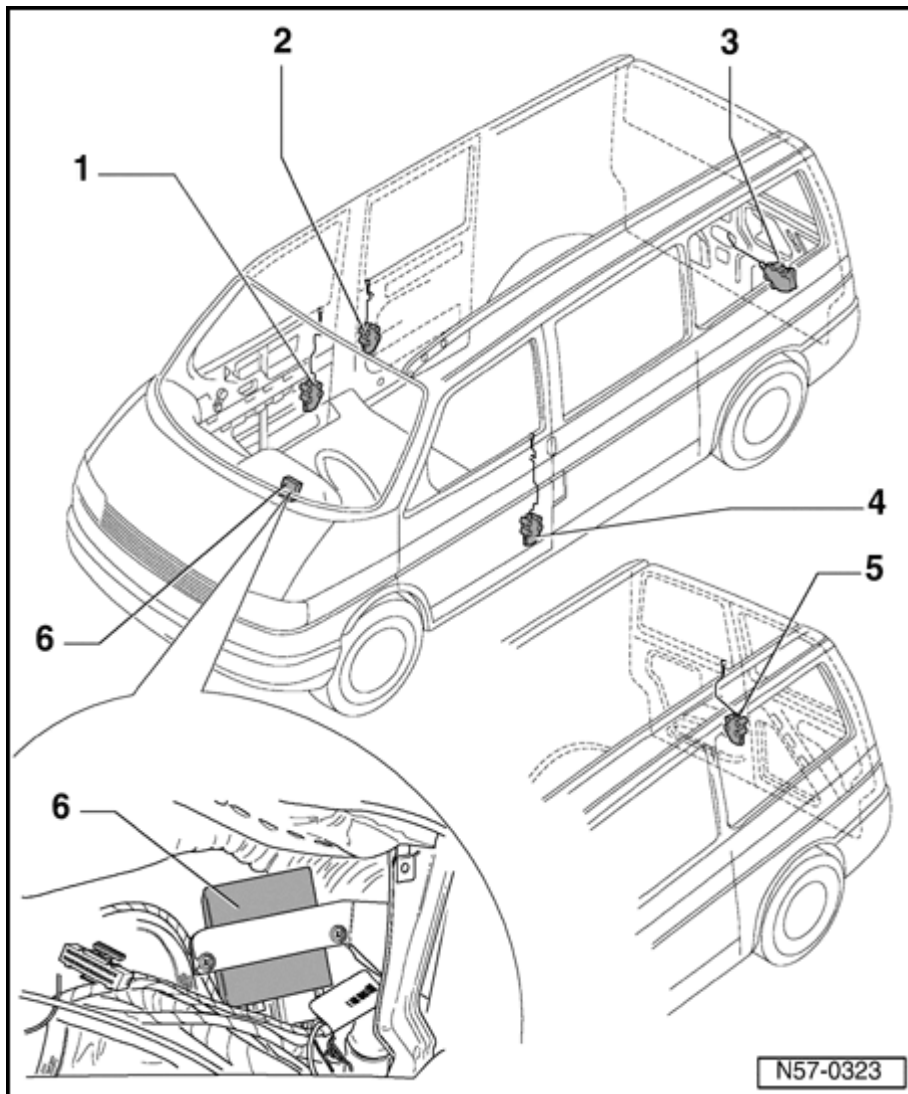
◆ Removing and installing ⇒ [Page 57-31](#)

#### 3 - Rear lid door lock actuator

◆ Removing and installing ⇒ [Page 57-32](#)

#### 4 - Front door lock actuator

◆ Removing and installing ⇒ [Page 57-30](#)



### 5 - Double back door lock actuator

- ◆ Removing and installing, ⇒ [Page 57-33](#)

### 6 - Central control module

- ◆ Only on vehicles with radio frequency remote control central locking
- ◆ To remove, first remove instrument panel trim



## Central locking system with radio frequency remote control functions (05.98 through 10.00)

For vehicles from 10.00

⇒ [Repair Manual, Body On Board Diagnostic \(OBD\), Repair Group 01](#)

Vehicles with radio frequency remote control can be unlocked or locked without direct activation of the door locks. The radio frequency remote control also activates/deactivates the anti-theft warning system. The following information describes the additional functions not found in central locking systems without radio frequency remote control.

The transmitter unit with batteries is located in the handle of the vehicle key. The Central Locking System Control Module -J276- is located behind the instrument cluster.

The effective range of radio frequency remote control is 6 - 15 m (20 - 50 ft.). The range depends on various factors (atmospheric conditions, metallic materials in the area of the vehicle, condition of the batteries in the key).

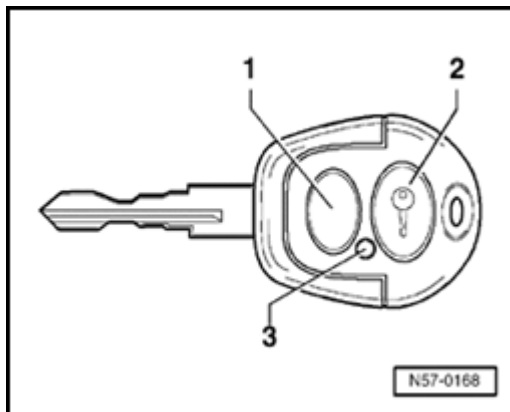
The vehicle will not unlock if the battery is already considerably discharged. The vehicle cannot be locked with the radio frequency remote control and the corresponding key cannot be synchronized.





### To unlock vehicle:

- Point key toward vehicle within the effective range and briefly press unlock button -1-. Opening of vehicle and anti-theft warning system (if equipped) deactivation are indicated by emergency flashers lighting up twice.



### A To lock vehicle:

- Press briefly on lock button -2-. Opening of vehicle and anti-theft warning system (if equipped) deactivation is indicated by emergency flashers lighting up twice.

If lock button -2- is pressed for at least one second, anti-theft warning system is activated at same time.

Locking of vehicle and activation of anti-theft warning system will be displayed by emergency flashers lighting up one time.

When lock button -2- or unlock button -1- is pressed, indicator light -3- in key blinks. If this light does not blink, batteries in the key may be discharged. If necessary, replace batteries.

No synchronizing is required after changing batteries.

Each time locks are unlocked or locked using the radio frequency remote control, system code is changed.

If lock and/or unlock buttons are operated more than 50 times outside system receiving range, system will not react until button -1- or -2- is pressed quickly two times.



## Radio frequency remote control, synchronizing (vehicles from 10.00)

For vehicles up to 10.00

⇒ [Repair Manual, Body On Board Diagnostic \(OBD\), Repair Group 01](#)

It is necessary to synchronize the radio frequency remote control key if:

- ◆ New additional keys (maximum 4 keys) are obtained for the vehicle and/or defective keys are replaced.
- ◆ Central Locking System Control Module (remote control) -J276- is replaced.

or:

- ◆ Complete locking system was replaced.

Adaptation of new keys to anti-theft immobilizer is always performed first.

⇒ [Repair Manual, Electrical Equipment On Board Diagnostic \(OBD\) from August 1998, Repair Group 01.](#)

Successful synchronizing of a key erases previous synchronizing (code) of other keys.

Therefore, entire set of keys (maximum 4 keys)

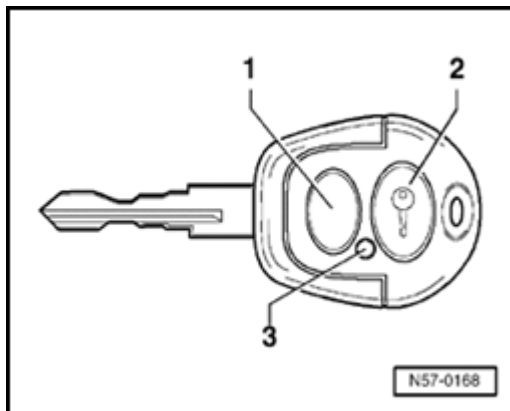
have to be re-synchronized, immediately, one after another.

**Note:**

*During synchronizing, no other vehicle with radio frequency remote control may be within an area of 20 m (50 ft.). If this condition is not observed, it is possible synchronizing will be influenced by an outside vehicle.*

- Switch ignition on for maximum 3 seconds with master key only.
- Switch ignition off and pull out key.

Synchronizing of key must now take place within 20 seconds.

**A**

- While holding lock button -2-, press unlock button -1- three times.
- Release lock button -2-. Indicator light -3- in key blinks five times.

If control module has accepted synchronizing of the key, the vehicle locks and unlocks once and emergency flasher system is activated accordingly.



Any additional keys must be synchronized within next 20 seconds after new key is completed To synchronize additional keys, (maximum 3 more) hold lock button -2- and press button -1- 3 times.

If control module has accepted synchronizing of the key, vehicle locks and unlocks once and emergency flasher system is activated accordingly.

Synchronizing process ends if 20 second time limit has been exceeded or ignition was switched off for at least 5 seconds. If all 4 keys were synchronized, th synchronizing process automatically ends.



## Adaptation of ignition keys with radio-frequency remote control from 05.00

### Note:

- ◆ *If new or additional ignition keys are required, they must be adapted to the electronic controls of the anti-theft immobilizer and the radio-frequency remote control.*
- ◆ *Generally, all ignition keys, including existing keys, must be re-adapted.*
- ◆ *The number of adapted keys is indicated after selecting the adaptation function.*
- ◆ *Adaptation can be interrupted using the "C" button of the VAG1551 scan tool.*

### **WARNING!**

***The Work Shop Code (WSC) of the VAG1551 is stored in the electronic controls of the anti-theft immobilizer during adaptation of ignition keys.***



## Requirements

- ◆ All ignition keys available. If there are no old ignition keys available, see "Procedure for lost key",

⇒ [\*Repair Manual, Electrical Equipment On Board Diagnostic \(OBD\) from August 1998, On Board Diagnostic \(OBD\) of anti-theft immobilizer.\*](#)

- ◆ Key chain with concealed secret number is available; if not, see "Determining secret number",

⇒ [\*Repair Manual, Electrical Equipment On Board Diagnostic \(OBD\) from August 1998, On Board Diagnostic \(OBD\) of anti-theft immobilizer.\*](#)

- Insert mechanically appropriate ignition key into ignition lock.

- Connect Scan Tool (ST)

⇒ [\*Repair Manual, Body On Board Diagnostic \(OBD\), Repair Group 01; On Board Diagnostic\*](#)

- Initiate On Board Diagnostic (OBD)

⇒ [\*Repair Manual, Body On Board Diagnostic \(OBD\), Repair Group 01; Initiating On Board Diagnostic \(OBD\) for central locking system with radio-frequency remote control\*](#)

Rapid data transfer  
Select function XX

HELP



The adaptation shown here is just an example.

Indicated on display:

- Press buttons -1- and -0- to select "Adaptation", function 10.





Rapid data transfer 10 - Adaptation	Q	⏪	Indicated on display:  - Press -Q- button to confirm input.
Adaptation Enter channel number XX		⏪	Indicated on display:  - Press buttons -0- and -0- to erase all keys via channel number 00. - Press -Q- button to confirm input.
Adaptation Erase adaptation values ?	Q	⏪	Indicated on display:  - Press -Q- button to confirm input.
Adaptation Adaptation values have been erased	→	⏪	Indicated on display:  - Press → button.
Rapid data transfer Select function XX	HELP	⏪	Indicated on display:  - Press buttons -1- and -0- to select "Adaptation", function 10.
Rapid data transfer 10 - Adaptation	Q	⏪	Indicated on display:  - Press -Q- button to confirm input.



<p>Adaptation Enter channel number XX</p>	<p>←</p>	<p>Indicated on display:  - Press buttons -0- and -1-. All keys are adapted via channel number 01.</p>
<p>Adaptation Enter channel number 01</p>	<p>Q</p>	<p>← Indicated on display:  - Press -Q- button to confirm input.</p>
<p>Channel 1.....adaptation 1 Key</p>	<p>→ 1 &lt;-1 3-&gt;</p>	<p>← Indicated on display:  The upper line indicates how many keys are supposed to be adapted (standard = 1). Select key number using buttons "1" and "3".  - Press -Q- button to confirm input.</p>
<p>Channel 1.....adaptation 1 Enter adaptation value XXXXX</p>	<p>→</p>	<p>← Indicated on display:  - Press the -0- button four times and then the total number of keys to be adapted, including any keys that are present (e.g. 00003), max. 4 keys possible.  - Press -Q- button to confirm input.</p>
<p>Channel 1 adaptation 3 Key 3 &lt;-1 3-&gt;</p>	<p>Q</p>	<p>← Indicated on display: Number of radio-frequency keys to be adapted.  - Press -Q- button to confirm input.</p>
<p>Channel 1 adaptation 3 Store modified value?</p>	<p>Q</p>	<p>← Indicated on display:  - Press -Q- button to confirm input.</p>



Channel 1 adaptation 3



Indicated on display:

Modified value has been stored

- Press → button.

Rapid data transfer

HELP



Indicated on display:

Select function XX

- Operate the button on each key being adapted for at least 1 second (in the above example, for 3 keys).
- Switch ignition off and remove ignition key.
- Perform function test of the (e.g. 3) radio-frequency keys.

**Note:**

*All 3 keys (see example) can be adapted in one adaptation procedure.*

*The adaptation of all keys (pressing button) must not exceed 15 seconds.*

*A successful adaptation can be recognized via "Read measuring value block" -function 08, display group number 003. When radio-frequency key(s) is/are operated, the first two measured values must indicate the status OK. At the same time, the position number of the key must be indicated in the last measured value (first, second, third, fourth key).*

*If the radio-frequency remote control key is operated repeatedly, the third indication -no measured value- switches to "OK".*

⇒ [Repair Manual, Body On Board Diagnostic \(OBD\), Repair Group 01; Initiating On Board Diagnostic \(OBD\) for central locking system with radio-frequency remote control](#)



Adaptation of ignition keys is automatically terminated if:

- ◆ The number of keys to be adapted has been reached.
- ◆ A button of one of the keys being adapted is operated repeatedly.
- ◆ The allotted adaptation time of 15 seconds is exceeded (a DTC is stored).

- Select "Check DTC memory", function 02. If there are no DTCs stored, the key adaptation was completed successfully.

- Press buttons -0- and -6- to end output.

Rapid data transfer Q06 End Output



Indicated on display:

- Press -Q- button to confirm input.

Rapid data transfer HELPEnter address word XX



Indicated on display:

- Switch off ignition.

- Disconnect harness connectors for the VAG1551 scan tool.



## Adapting a new, additional key from 05.00

### Using VAG1551 Scan Tool (ST)

- Connect Scan Tool (ST)

⇒ [Repair Manual, Body On Board Diagnostic; Repair Group 01; On Board Diagnostic](#)

- Initiate On Board Diagnostic (OBD)

⇒ [Repair Manual, Body On Board Diagnostic \(OBD\), Repair Group 01; Initiating On Board Diagnostic \(OBD\) for central locking system with radio-frequency remote control](#)

Rapid data transfer  
Select function XX

HELP



Indicated on display:

- Press buttons -1- and -0- to select "Adaptation", function 10.

Rapid data transfer  
10 - Adaptation

Q



Indicated on display:

- Press -Q- button to confirm input.

Adaptation  
Enter channel number XX



Indicated on display:

- Press buttons -0- and -1-.

Adaptation  
Enter channel number 01

Q



Indicated on display:

- Press -Q- button to confirm input.



Channel 1.....adaptation 1	→	↖	Indicated on display:
Key	1 <-1 3->		The upper line indicates how many keys are supposed to be adapted (1).
			- Press → button.
Channel 1.....adaptation 1	Q	↖	Indicated on display:
Enter adaptation value XXXXX			- Press the -0- button four times and then the -1- button.
			- Press -Q- button to confirm input.
Channel 1 adaptation 1	Q	↖	Indicated on display: Number of radio-frequency keys to be adapted.
Key 1 <-1 3->			- Press -Q- button to confirm input.
Channel 1 adaptation 1	Q	↖	Indicated on display:
Store modified value?			- Press -Q- button to confirm input.
Channel 1 adaptation 1	→	↖	Indicated on display:
Modified value has been stored			- Press → button.
Rapid data transfer	HELP	↖	Indicated on display:
Select function XX			- Press one button on the radio-frequency key for at least 1 second within the next 15 seconds.
			- Switch ignition off and remove ignition key.
			- Perform function test of the radio-frequency key.

**Note:**

*Initialization is complete when the time of 15 seconds has been exceeded, no free key positions are available or the key has been adapted successfully.*

**Without VAG1551 Scan Tool (ST)**

- Insert mechanically appropriate (old) ignition key into ignition lock.
  
- Switch on ignition.
  
- Switch ignition off within 5 seconds.
  
- Switch ignition on again within 5 seconds.
  
- Using the new key (being adapted), mechanically lock the vehicle within 15 seconds (i.e. driver-side door) or lock it via the internal locking switch and then operate the radio-frequency button on the key.
  
- After a pause of more than one second (but within 30 seconds), operate the radio-frequency button on the key a second time.
  
- The adaptation procedure has been completed and is confirmed when the vehicle blinks twice.

**Note:**

*This adaptation fills the next free key position, i.e. the fourth in this example.*





## **Synchronization of ignition keys with radio-frequency remote control from 05.00**

Synchronization is necessary when the vehicle does not open or close when radio-frequency button is operated or when the relevant malfunction is indicated in the Read measuring value block function. It is possible that the key code and control module code no longer match. This can occur if the send button on the key is operated frequently outside the operational range of the system.

The vehicle key(s) must be resynchronized if this occurs. The synchronization procedure must not last longer than 15 seconds.

- Insert key into ignition lock.
  
- Switch on ignition.
  
- Switch ignition off within 5 seconds.
  
- Switch ignition on again within 5 seconds.
  
- Using the new key (being adapted), mechanically lock the vehicle within 15 seconds (i.e. driver-side door) or lock it via the internal locking switch and then operate the radio-frequency button on the key.

- After a pause of more than one second (but within 30 seconds), operate the radio-frequency button on the key a second time.