

Matching vehicle keys



Note

- ♦ If new or additional ignition keys are required, they must be matched to the immobilizer.
- ♦ All ignition keys, including those already authorised, must always be re-matched.
- ♦ It is particularly important to re-match all the remaining vehicle keys if any have been lost to ensure that the lost key is no longer authorized to start the vehicle.
- ♦ If it is not possible to match all keys, e.g. during a journey, customers must have this done at a later date at their local Audi dealership.
- ♦ The number of keys already matched is displayed after selecting function "10 - Adaption" in "Channel 21".

Procedure

- All ignition keys available. If there is no old ignition key available → **Chapter „Lost key procedure“**.
- Insert the first key in the ignition lock and switch on the ignition.
- Establish the immobilizer identification number by starting immobilizer self-diagnosis → **Chapter**.
- Obtain the 7-digit PIN from the applicable regional sales centre/importer on the basis of the 14-position immobilizer identification number.

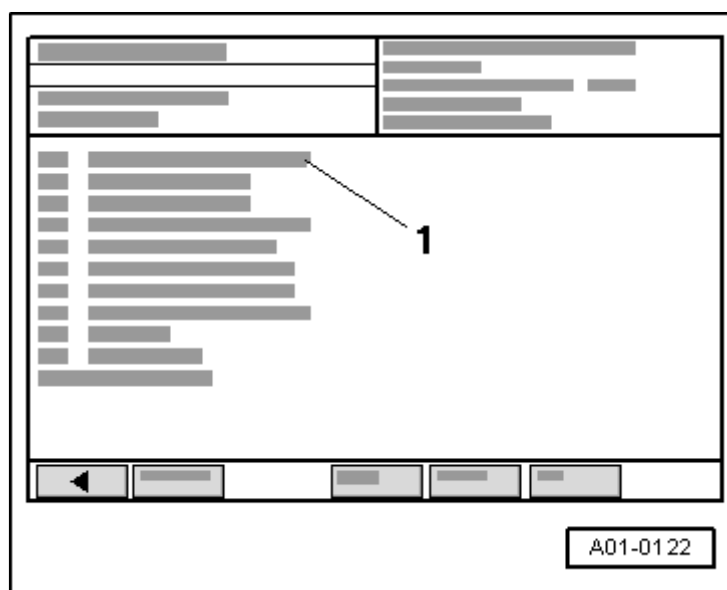


Note

The PIN is only valid for one day, after which a new number has to be requested. The PIN is of no use to the customer or other dealerships.

Display on -VAS 5051-:

- From list -1- select function "Enable (PIN)".



Display on -VAS 5051-

Vehicle self-diagnosis	17 - Dash panel insert 4B0919880
Function test	C5 INSTR. CLUSTER UN4 D15

Enabling (PIN)		Code 42 Workshop code 12345	
Information			
PIN is used to enable key matching or adaption in the vehicle system The PIN obtained for the immobilizer identification number is only valid on the day it is requested			Done
←	Test instruments	Skip	Print Help

– Touch the **Done** key.

Display on -VAS 5051-

Vehicle self-diagnosis	17 - Dash panel insert 4B0919880
Function test	C5 INSTR. CLUSTER UN4 D15
Enabling (PIN)	Code 42 Workshop code 12345
PIN entry	
Enter PIN provided using displayed keypad Confirm PIN entered with Continue key (→ key)	
Press here to display entry keypad	
←	Test instruments Skip Print Help →

– Touch key **Press here to display entry keypad**.

Display on -VAS 5051-

Vehicle self-diagnosis				17 - Dash panel insert 4B0919880			
Function test				C5 INSTR. CLUSTER UN4 D15			
Enabling (PIN)				Code 42 Workshop code 12345			
1	2	3	+	A	B	C	D
4	5	6	–	E	F	G	H
7	8	9	.	I	J	K	L
C	0	Q		M	N	O	P
				Q	R	S	T
				U	V	W	X
				Y	Z		

←	Test instruments		Skip	Print		Help	→
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– Use the keypad to enter the previously established 7-digit PIN.

– Touch key.

Display on -VAS 5051-

Vehicle self-diagnosis	17 - Dash panel insert 4B0919880									
Function test	C5 INSTR. CLUSTER UN4 D15									
Enabling (PIN)	Code 42 Workshop code 12345									
PIN entry										
Entered PIN XXXXXXXX correct?			<input type="button" value="Yes"/>							
			<input type="button" value="No"/>							
<table border="1"> <tr> <td>←</td> <td>Test instruments</td> <td></td> <td>Skip</td> <td>Print</td> <td></td> <td>Help</td> </tr> </table>				←	Test instruments		Skip	Print		Help
←	Test instruments		Skip	Print		Help				

– Check entry and then touch key.

– Incorrect PIN entry can be corrected by touching key.

Display on -VAS 5051-

Vehicle self-diagnosis	17 - Dash panel insert 4B0919880									
Function test	C5 INSTR. CLUSTER UN4 D15									
Enabling (PIN)	Code 42 Workshop code 12345									
PIN transfer										
PIN valid			<input type="button" value="Done"/>							
Key matching/adaption can be implemented										
<table border="1"> <tr> <td>←</td> <td>Test instruments</td> <td></td> <td>Skip</td> <td>Print</td> <td></td> <td>Help</td> </tr> </table>				←	Test instruments		Skip	Print		Help
←	Test instruments		Skip	Print		Help				

– Touch the key.

When this display appears, the immobilizer warning lamp -K117- in the instrument cluster lights up and the immobilizer is disarmed.



Note

- ♦ Observe the instructions given on the display if a fault message appears.
- ♦ 3 attempts at entering a correct PIN are immediately possible. The next 3 attempts are only possible after at least 10 minutes.

To do so, the ignition must be left switched on and function "06 - End of output" must be selected from list -1- to exit from self-diagnosis.

- ♦ The waiting time is doubled up to a maximum of 255 minutes after every 3 further incorrect entries.



Once immobilizer has been disarmed:

Display on -VAS 5051-:

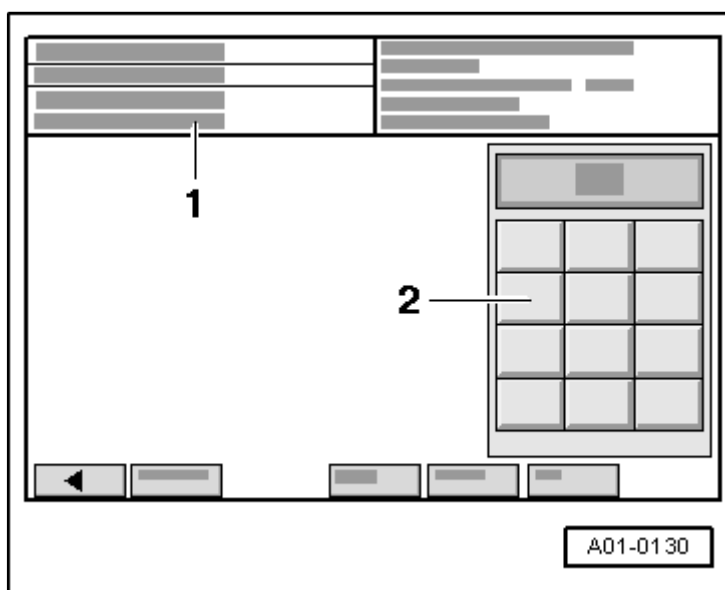
- From list -1- select function "10 - Adaption".



Display on -VAS 5051-:

1 - Enter channel number

- On keypad -2-, touch keys **21** for "Adaption channel 21" and confirm the entry by touching the **Q** key.

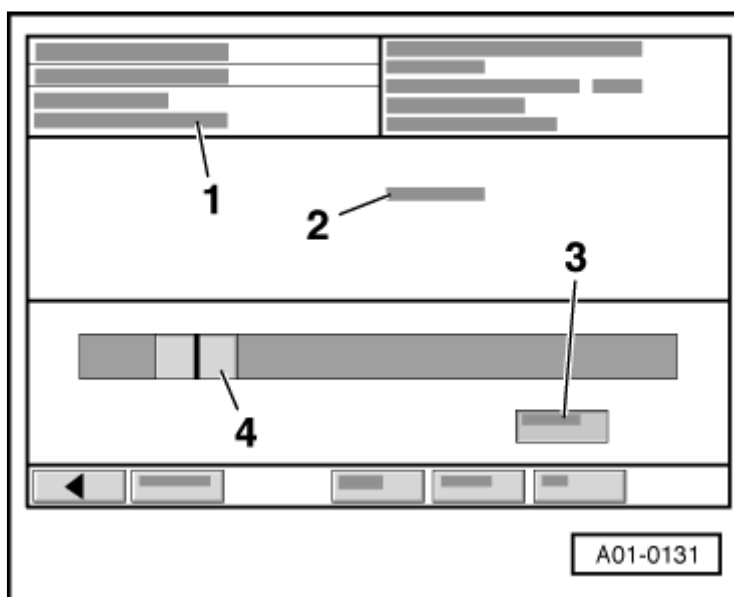


Display on -VAS 5051-:

1 - Channel 21 reading and testing

2 - New number of keys:

4 - Bar set to current adaption value, e.g. "2". The display shows the number of ignition keys (in this case "2") matched to the system.



Display on -VAS 5051-:

– Enter the number of keys to be matched.

Example: 4 keys including the one in the ignition lock



Note

A maximum of 8 keys can be matched.

– Move the bar -5- to the right or touch the panel to the right of the bar until the bar is positioned under the number "4" (example).



Note

It is also possible to touch the **keypad** key - Item 3-, then the key **4** and confirm the entry by touching the **Q** key.

– Touch the **Save** key -4-.

Display on -VAS 5051-:

1 - Channel 21 reading and testing

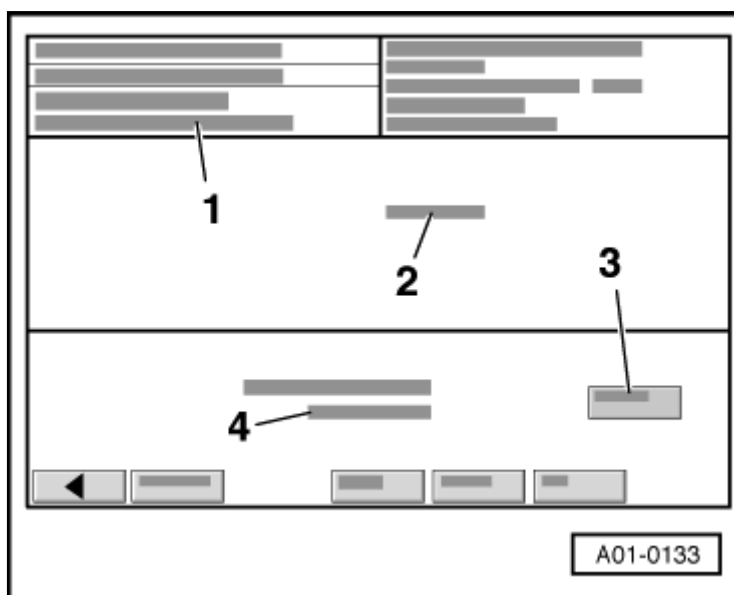
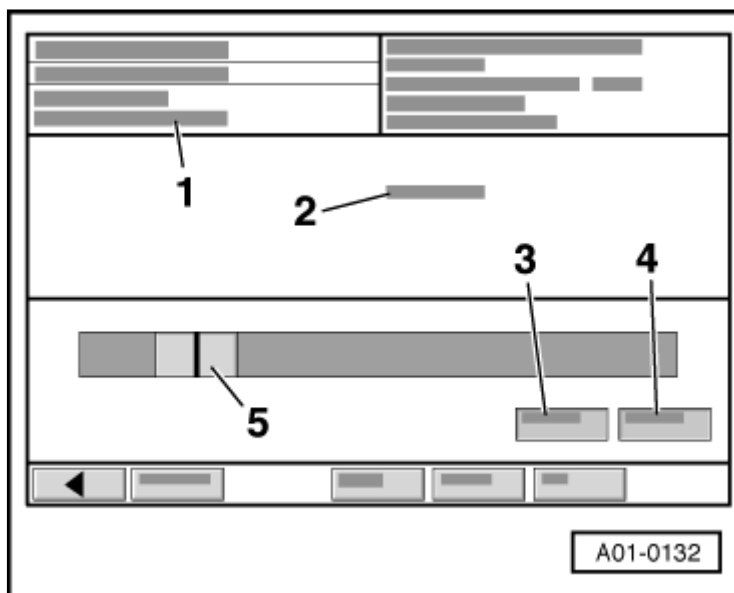
2 - New number of keys:

4 - Original value "2" new value "4" (example)

– Confirm the new adaption value by touching the **Accept** key -3-.

Matching is then implemented.


- The matching time per key must not exceed 30 seconds. Otherwise the immobilizer warning lamp -K117- in the instrument cluster starts to flash and the whole enabling procedure (PIN) must be repeated.

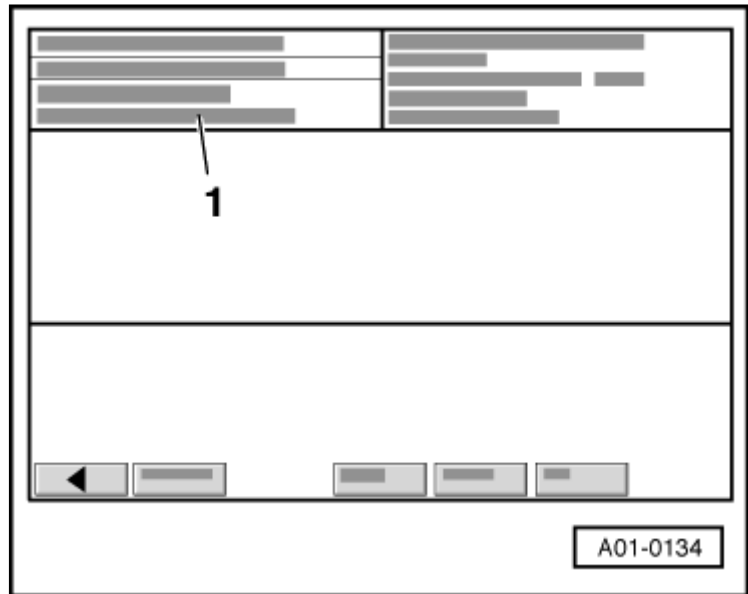


Display on -VAS 5051- following successful adaption:

1 - Channel 21 value "4" stored

The immobilizer warning lamp -K117- in the instrument cluster goes out; the key in the ignition lock has been matched.

- Terminate function "10 - Adaption" by touching  key.



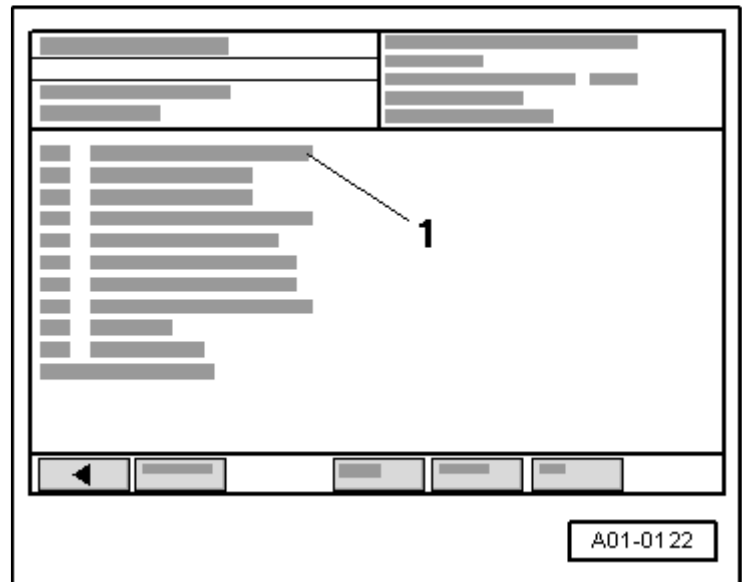
Display on -VAS 5051-:

- From list -1-, select function "06 - End of output".
- Switch off ignition.
- Insert the next key in the ignition lock and switch on the ignition.
- Repeat the procedure until all keys have been matched.

The vehicle key matching procedure matches the fixed code of the key concerned (transponder) to the immobilizer.

- Interrogate the fault memory on completion of key matching → **Chapter**.

If no fault has been stored, the "Key matching" function has been successfully completed.



Ignition key matching is terminated automatically under the following conditions:

- ♦ On reaching the number of keys to be matched.
- ♦ If the ignition is switched on again with an already matched key and left switched on for more than 1 second (fault is stored).
- ♦ If the permitted matching time of 30 seconds per key after switching on the ignition is exceeded (fault is stored).
- ♦ If a fault is stored during the key matching procedure.