



Key Adaptation

SYSTEM OVERVIEWS





Adapting vehicle keys is an integral part of customer satisfaction. A failure to adapt all vehicle keys, when replacing certain components, will render those keys ineffective. As a result the car will need to be re-serviced, causing a decrease in customer satisfaction.

This module will guide you through the **Key Adaptation** procedure using **Vehicle Self-Diagnosis**.

Whenever possible, use **Guided Fault Finding** to perform **Immobilizer** procedures.

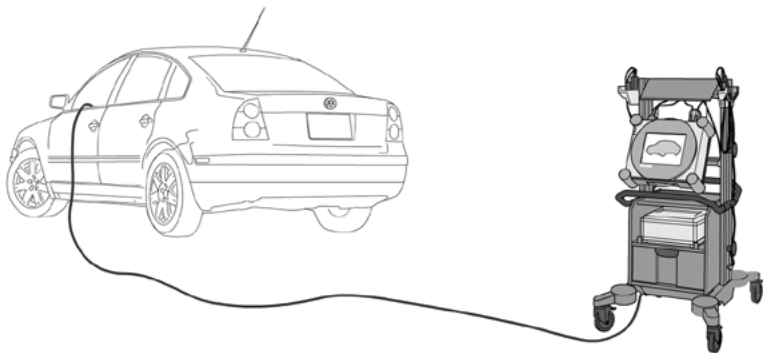


Whenever performing work on the **Immobilizer** system, make sure to obtain all of the keys from the customer.

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Once keys are collected,

- Connect the scan tool to the vehicle and turn the ignition to the ON position.





- Select either **Guided Fault Finding** or **Vehicle Self-Diagnosis**.

The procedure in this module will guide you through using **Vehicle Self-Diagnosis**.

VAS 5051



Vehicle Diagnostic, Testing and Information System
Version - USA/CDN - V03.10 02/11/2002



Vehicle Self-Diagnosis

Test Instruments

Guided Fault Finding

OBD

Applications

Administration

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Help



- Select **Address Word 17, Dash panel insert.**

Vehicle Self-Diagnosis	
Select vehicle system	
16 - Steering wheel electronics	
26 - Electronic roof controls	
36 - Seat adjustment - driver side	
46 - Convenience system central module	
56 - Radio	
66 - Seat/mirror adjustment	
76 - Parking aid	
1D - Driver identification	
07 - Display-/ control unit	
17 - Dash panel insert	
27 - Display-/ control unit, rear	
37 - Navigation	
47 - Sound system	
57 - TV-Tuner	
Test Instruments	Go To
	Print
	Help



After **Address Word 17** is selected, the menu **Select Diagnosis Function** will appear.

- Select **Enabling (pin)**.

Vehicle Self-Diagnosis	17 - Dash panel insert 3809209268 KOMBI+WEGFAHRSP VDO V01 Coding 7235 Dealership number 0
Select diagnosis function	
02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 06 - End output 07 - Code control unit 08 - Read data block 09 - Reading individual measuring value 10 - Adaption 11 - Log-in procedure Transmitting vehicle identification number	
Enabling (pin)	
Adaptation channel 50 (pin)	
◀	Test Instruments Go To Print Help

- Enter the **7-digit Immobilizer Personal Identification Number (PIN)** from the **Warranty Information Network (WIN)**.
- Follow the steps in the function test.

Remember, the **Vehicle Identification Number (VIN)** and the **Immobilizer Identification Number** are needed for the **WIN** system to issue the **7-digit PIN**.

Vehicle Self-Diagnosis	17 - Dash panel insert
Function Test	3B0920926B
Enabling (PIN)	KOMBI+WEGFAHRSP VDO V01 Coding 7235 Dealership number 0
Information	
The PIN serves for enabling the key adaptation or adaptation in the vehicle system.	
The individual system PIN which is transmitted for the immobilizer identification number is only valid for the day of inquiry.	
<input type="button" value="Done"/>	
<div><div></div><div>Test Instruments</div><div>Go To</div><div>Print</div><div>Help</div></div>	



- Using the keypad, enter the **7-digit PIN**.

Once the **PIN** is entered, the **5051** will display a confirmation screen.

Vehicle Self-Diagnosis				17 - Dash panel insert			
Function Test				3B0920926B			
Enabling (PIN)				KOMBI+WEGFAHRSP VDO V01			
				Coding 7235			
				Dealership number 0			
1	2	3	+	A	B	C	D
				E	F	G	H
4	5	6	-	I	J	K	L
				M	N	O	P
7	8	9	.	Q	R	S	T
				U	V	W	X
C	0	Q		Y	Z		
0123456							
◀		Test Instruments		Go To	Print	Help	▶



- Press “Q” to confirm.

Vehicle Self-Diagnosis				17 - Dash panel insert			
Function Test				3B0920926B			
Enabling (PIN)				KOMBI+WEGFAHRSP VDO V01			
				Coding 7235			
				Dealership number 0			
1	2	3	+	A	B	C	D
				E	F	G	H
4	5	6	-	I	J	K	L
				M	N	O	P
7	8	9	.	Q	R	S	T
				U	V	W	X
C	0	Q		Y	Z		
0123456							
◀		Test Instruments		Go To	Print	Help	▶



If the **PIN** begins with a "0", the "0" will not appear on the confirmation screen.

Vehicle Self-Diagnosis	17 - Dash panel insert
Function Test	3B0920926B
Enabling (PIN)	KOMBI+WEGFAHRSP VDD V01 Coding 7235 Dealership number 0

Input of PIN

Is the entered PIN 123456 correct?



The **VAS 5051** will return to **Address Word 17**.

- Select **Function 10, Adaptation**.

Vehicle Self-Diagnosis	17 - Dash panel insert 3809209268 KOMBI+WEGFAHRSP VDO V01 Coding 7235 Dealership number 0
Select diagnosis function	
02 - Interrogate fault memory	
03 - Final control diagnosis	
04 - Basic settings	
05 - Erase fault memory	
06 - End output	
07 - Code control unit	
08 - Read data block	
09 - Reading individual measuring value	
10 - Adaption	
11 - Log-in procedure	
Transmitting vehicle identification number	
Enabling (pin)	
Adaptation channel 50 (pin)	
	Test Instruments
	Go To
	Print
	Help



A keypad will appear.

- Enter “21” for **Channel 21** and press “Q”

Vehicle Self-Diagnosis	17 - Dash panel insert
10 - Adaption	3B0920926B
Enter channel number	KOMBI+WEGFAHRSP VDO V01
max. input value = 99	Coding 7235
	Dealership number 0

21

1	2	3
4	5	6
7	8	9
C	0	Q

◀

Go To

Print

Help



Using the slide bar on the screen,

- Enter the total amount of keys to be adapted to the vehicle.

Vehicle Self-Diagnosis	17 - Dash panel insert
10 - Adaptation	3B0920926B
Read and test	KOMBI+WEGFAHRSP VDO V01
channel 21	Coding 7235
	Dealership number 0

old No.
of keys:
3

0
3
8

Keyboard



- Press “**Save**” to save the adjusted value.

Vehicle Self-Diagnosis	17 - Dash panel insert
10 - Adaptation	3B0920926B
Read and test	KOMBI+WEGFAHRSP VDO V01
channel 21	Coding 7235
	Dealership number 0

new No.
of keys:
3

0
3
8

Keyboard
Save

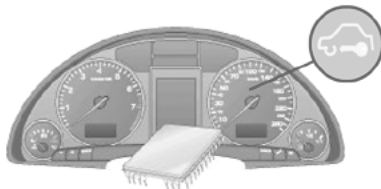


- Press “**Accept**” to verify the adjusted value.

Vehicle Self-Diagnosis	17 - Dash panel insert
10 - Adaptation	3B0920926B
Read and test	KOMBI+WEGFAHRSP VDO V01
channel 21	Coding 7235
	Dealership number 0
<p>new No. of keys: 3</p>	
Original value 3	Accept
New value 3	

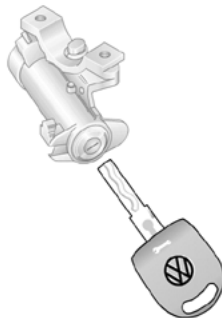
- Turn the ignition to the OFF position and remove the first key from the lock assembly.

The key in the ignition is adapted to the **Immobilizer** system.



- Insert the next key into the ignition cylinder and turn it to the ON position.
- Leave it in this position until the **Immobilizer** lamp goes off.

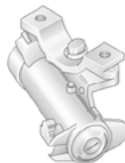
The second key is now adapted.



- Insert the next key into the ignition cylinder and turn it to the ON position.
- Leave it in this position until the **Immobilizer** lamp goes off.

The second key is now adapted.

Repeat this step with all of the other keys until all are adapted. Remove the last key from the ignition cylinder when done.

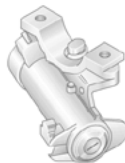


- Insert the next key into the ignition cylinder and turn it to the ON position.
- Leave it in this position until the **Immobilizer** lamp goes off.

The second key is now adapted.

Repeat this step with all of the other keys until all are adapted. Remove the last key from the ignition cylinder when done.

Only 30 seconds are given to complete this procedure for all keys.





Each key should be checked to verify that it will start the vehicle.

Wait two minutes before checking if the key will start the vehicle. Also, wait two minutes between checking each key.