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Applications are continually updated as vehicles are constantly added.

To ensure you have the very latest information, the applications list is available via Info Quest - an online portal containing vehicle technical data for key & remote programming for all manufacturers.

To view the latest vehicle applications please visit Info Quest at

http://iq.advanced-diagnostics.co.uk/

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<tr>
<td>ADS115</td>
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<tr>
<td>ADS146</td>
</tr>
<tr>
<td>ADS186</td>
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</table>
# Diagnostic Sockets/Ports

## Audi

<table>
<thead>
<tr>
<th>Model</th>
<th>Socket/Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2</td>
<td></td>
</tr>
<tr>
<td>A4</td>
<td></td>
</tr>
<tr>
<td>A6</td>
<td></td>
</tr>
<tr>
<td>TT(8J)</td>
<td></td>
</tr>
<tr>
<td>Coupe</td>
<td></td>
</tr>
<tr>
<td>NEW A6</td>
<td></td>
</tr>
<tr>
<td>Allroad</td>
<td></td>
</tr>
<tr>
<td>A3</td>
<td></td>
</tr>
<tr>
<td>A8</td>
<td></td>
</tr>
<tr>
<td>Q7</td>
<td></td>
</tr>
<tr>
<td>Q5</td>
<td></td>
</tr>
<tr>
<td>A4 (8K)</td>
<td></td>
</tr>
</tbody>
</table>
DIAGNOSTIC SOCKETS/PORTS

AUDI

R8

A3 8P

A5 8T
DIAGNOSTIC SOCKETS/PORTS

SEAT

LEON

AROSA

TOLEDO (PRE CAN)

IBIZA

LEON 2007+

IBIZA 6J

ALTEA

ALHAMBRA 7M9
## SKODA

<table>
<thead>
<tr>
<th>Car Model</th>
<th>Diagnostic Sockets/Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>Felicia</td>
<td>OCTAVIA</td>
</tr>
<tr>
<td>OCTAVIA</td>
<td>TOLEDO (CAN)</td>
</tr>
<tr>
<td>FABIA</td>
<td>ROOMSTER</td>
</tr>
<tr>
<td>FABIA (545)</td>
<td>OCTAVIA (1Z)</td>
</tr>
<tr>
<td>OCTAVIA</td>
<td></td>
</tr>
<tr>
<td>OCTAVIA</td>
<td></td>
</tr>
<tr>
<td>OCTAVIA</td>
<td></td>
</tr>
<tr>
<td>VOLKSWAGEN Models</td>
<td>Diagnostic Sockets/Ports</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>POLO</td>
<td>LT</td>
</tr>
<tr>
<td>TOURAN</td>
<td>GOLF MK 5</td>
</tr>
<tr>
<td>CRAFTER</td>
<td>CADDY</td>
</tr>
<tr>
<td>PHAETON</td>
<td>PASSAT</td>
</tr>
<tr>
<td>CARAVELLE 7HM</td>
<td>SCIROCCO</td>
</tr>
<tr>
<td>POLO 9R</td>
<td>SHARAN 7M6</td>
</tr>
</tbody>
</table>
# Diagnostic Sockets/Ports

## Volkswagen

<table>
<thead>
<tr>
<th>Model</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOX 5Z</td>
<td><img src="image" alt="FOX 5Z" /></td>
</tr>
<tr>
<td>CRAFTER</td>
<td><img src="image" alt="CRAFTER" /></td>
</tr>
<tr>
<td>AMOROK 2H</td>
<td><img src="image" alt="AMOROK 2H" /></td>
</tr>
<tr>
<td>LUPO 6X1</td>
<td><img src="image" alt="LUPO 6X1" /></td>
</tr>
</tbody>
</table>
VAG vehicles are fitted with 3 types of immobiliser system

**System 1**
Consists of a separate immobiliser ECU which controls the recognition of keys and the Engine Management ECU system.

**System 2**
The immobiliser is integrated within the vehicle dashboard.

The Immobiliser ECU enables up to 8 keys to be programmed and are recognised via the transponder aerial mounted around the Ignition lock.

If the keys are lost or a replacement Engine Management ECU is fitted then the transponder keys will need programming so that the ECU memory recognises the codes.

**PIN CODE**
Due to the difficulty in obtaining the pin codes from VW and AUDI dealers, software has been developed to assist extracting the pin code from the vehicle.

If you have purchased this software for your tester, then you have several methods of trying to extract the pin code. Pin code reading is a complex area and constantly being developed.

**SYSTEM IDENTIFICATION**
To identify the correct system, check to see whether the Dashboard has the following symbol when the ignition is on:

**SYSTEM 1** : DOES NOT HAVE THE SYMBOL

**SYSTEM 2** : IN MOST CASES DOES HAVE THIS SYMBOL

1. When reading Pin codes from vehicle memory, if loss of communications is experienced, try reading fault codes, then clearing fault codes then read the pin code.

2. If when programming keys, the tester displays the following

   **KEYS PROGRAMMED : 136**

   This means the incorrect PIN CODE has been entered.

   **KEYS PROGRAMMED : 0**

   This means that the PIN CODE has been entered incorrectly more than three times, and the system will need resetting By leaving the ignition ON for 35 minutes.

3. You cannot program a key immediately after reading a PIN, you must disconnect the tester and cycle the ignition.

4. Immobiliser warning light on all the time after key programming (engine starts and runs) - the number of keys selected to be programmed was not the number of keys that were ACTUALLY programmed.

5. Lost Keys - On certain models from the Golf Mk5 onwards, there is a 5 minute wait time before new keys can be coded. This was introduced by VW to combat the 'Gone in 60 seconds' scenario of stealing vehicles.

**EMERGENCY START**

a. Switch IGNITION ON and turn the clock set button to the right and at the same time press and hold the trip reset button for 1 second.

b. "0000" appears on the display, press the trip button to input the first digit of the pin code. Turn the clock set button to the right to move to the next digit. Repeat for all 4 digits.

c. Then with the correct pin code entered turn the clock set button to the right and press the trip reset button for 1 second.

d. The Immobiliser light will stay on, and the car can run for 45 minutes.
SPECIAL FUNCTIONS

VW/SEAT/SKODA/AUDI—SYSTEM 1

PROGRAM KEYS

VEHICLE SELECTION
- SSANGYONG
- SAAB
- SUZUKI
- SUBARU
- TOYOTA
- VOLKSWAGEN

PROGRAM KEYS

DIAGNOSTIC MENU

ECU IDENTIFICATION
FAULT CODES
SPECIAL FUNCTIONS

PROGRAM KEYS

KEY COUNT

PRESS ENTER KEY

SECURITY CODE

1 2 3 4 5
6 7 8 9 0

NOTE: ALL KEYS THAT REQUIRE PROGRAMMING MUST BE CYCLED IN AT THIS POINT.
SO IF 2 KEYS WERE SELECTED ON THE PREVIOUS SCREENS, 2 KEYS MUST NOW BE CYCLED IN.

PROGRAMMING KEYS

ACCESS GAINED

Www.Adusa.us
### SPECIAL FUNCTIONS

**VW/SEAT/SKODA/AUDI—SYSTEM 2**

<table>
<thead>
<tr>
<th>PROGRAM KEYS</th>
<th>PROGRAM KEYS</th>
<th>PROGRAM KEYS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VEHICLE SELECTION</strong></td>
<td><strong>DIAGNOSTIC MENU</strong></td>
<td><strong>SECURITY CODE</strong></td>
</tr>
</tbody>
</table>
| + SSANGYONG | + SECURITY INFO | -----
| + SAAB | + KEYS PROGRAMMED | 1 2 3 4 5 |
| + SUZUKI | + SECURITY INFORMATION | 6 7 8 9 0 |
| + SUBARU | + DASH LOCK TIME : 0s | |
| + TOYOTA | + ECU LOCK TIME : 0m | |
| + VOLKSWAGEN | + EMERG RELEASE : 0 | |
| | | 22BC |
| | | ☑ |

#### SECURITY INFORMATION

- **DASH LOCK TIME**: 0s
- **ECU LOCK TIME**: 0m
- **EMERG RELEASE**: 0
- **TRANS RECOGN**: 0

**NOTE:** THE DASH LOCK AND ECU LOCK TIMES SHOULD BE AT ZERO. IF THEY ARE NOT, LEAVE IGNITION ON UNTIL ZERO IS DISPLAYED, THEN PROGRAM THE KEYS.

### PROGRAMMING KEYS

**ACCESS GAINED**

<table>
<thead>
<tr>
<th>KEYS PROGRAMMED</th>
<th>TOTAL KEYS REGQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**IMMO STATUS**

- **NO INFORMATION RECEIVED**

**PLEASE PROGRAM ADDITIONAL KEYS IF NECESSARY**

**ECU IDENTIFICATION**

- 1H093267 B
- IMMO WWZ3Z0V
- 4191855 V00

**PROGRAM KEYS**

- **PROGRAM KEYS**
- **SECURITY INFO**
- **KEYS PROGRAMMED**

**PRESS ENTER KEY**
SPECIAL FUNCTIONS

PIN CODE READING EMS SYSTEMS

PIN CODE READING

VEHICLE SELECTION
- SSANGYONG
- SAAB
- SUZUKI
- SUBARU
- TOYOTA
- VOLKSWAGEN

PIN CODE READING

VEHICLE SELECTION
- BEETLE
- CADDY
- EOS
- FOX
- GOL
- GOLF/BORA/JETTA

PIN CODE READING

ECU IDENTIFICATION
- ML906032 1.8L R4
- 0010R4/5 VT
- ML906032 1.8L VT

PIN CODE READING

DIAGNOSTIC MENU
ECU IDENTIFICATION
- FAULT CODES
- SPECIAL FUNCTIONS

NOTE: THE PIN CODE READING IS NOW DONE BY IDENTIFYING THE ENGINE CODE. EXAMPLES ARE SHOWN BELOW.

PIN CODE READING

PRESS ENTER KEY

VEHICLE SELECTION
- 6N
- 9N

PRESS ENTER KEY

VEHICLE SELECTION
IMMOBILISER
REMOTE
AUTO.GEARBOX
PIN CODE READING
VAG SRS

VEHICLE SELECTION
DASHBOARD
PINCODE SYSTEM 1
READ PIN EMS
READ PIN CAN
READ PIN EDC

READ PINCODE
PLEASE WAIT

NOTE: FOR INFORMATION ABOUT PRECODING TRANSPONDERS USING THE AD900 PRO PLEASE PROCEED TO THE NEXT SECTION.

PINCODE
9997
AD900 PRO PRECODING
2A 3C 4F 54 66 88 XX

PRESS ENTER KEY

PRESS ENTER KEY

PRESS ENTER KEY
### PIN CODE READING EDC SYSTEMS

#### PIN CODE READING

**Vehicle Selection**
- SsangYong
- Saab
- Suzuki
- Subaru
- Toyota
- Volkswagen

- Beetle
- Caddy
- EOS
- Fox
- Golf
- Golf/Bora/Jetta

**Vehicle Selection**
- 6N
- 9N

**Vehicle Selection**
- Immobiliser
- Remote
- Auto.Gearbox
- PIN CODE READING
- VAG SRS

**Vehicle Selection**
- Dashboard
- PIN Code System 1
- Read Pin EMS
- Read Pin CAN
- Read Pin EDC

**PIN CODE READING**

**Pin Code Reading**

- Switch Ignition On
- Press Enter Key

**ECU Identification**

- VAG EDC
- Press Enter Key

**Diagnostic Menu**

- ECU Identification
- Special Functions
- Press Enter Key

**Vehicle Selection**

**Read Pin Code**

**Please Wait**

**Pin Code**

- Pin Code 9997
- AD900 Pro PreCoding
- 2A 3C 4F 54 66 88 12 36

**Press Enter Key**

---

**Note:** The pin code reading is now done by identifying the engine code. Examples are shown below.

**Note:** For information about pre-coding transponders using the AD900 PRO please proceed to the next section.
PRECODING TRANSPONDERS

AD900 PRO PRECODE

READ PINCODE
PIN CODE 99976
AD900 PRO PRECODING
2A 3C 4F 54 66 88 12 36
UNKNOWN 7th BYTE USE AD900 TO
CALCULATE
SWITCH IGNITION OFF
SWITCH AD100PRO OFF
PRESS ENTER KEY

USE THE INFORMATION
PROVIDED TO PRE-CODE
THE TRANSPONDER USING
THE AD900PRO

IF PROMPTED BY THE
DISPLAY SCREEN THAT
THERE ARE TWO
UNKNOWN LAST DIGITS
USE THE AD100PRO IN
CONJUNCTION WITH
AD900PRO TO
CALCULATE

VEHICLE SELECTION
IMMOBILISER
REMOTE
AUTO.GEARBOX
PIN CODE READING
VAG SRS

DIAGNOSTIC MENU
ECU IDENTIFICATION
SPECIAL FUNCTIONS
PRESS ENTER KEY

DIAGNOSTIC MENU
PROGRAM KEYS
PROGRAM REMOTES
KEY STATUS
PRESS ENTER KEY

AD900 PRO PRECODE

KEY STATUS
CORRECT TRANSPONDER: YES OR NO
NUMBER OF KEYS: 2
KEY PROGRAMMED: YES OR NO
TRANSPONDER LOCKED: YES OR NO
PRESS ENTER KEY

NOTE: CORRECT
TRANSPONDER IS THE
REQUIRED SETTING THAT
NEEDS TO BE CHECKED.
LEAVE THE TOOL
CONNECTED ON THIS
SCREEN.

SWITCH AD900 PRO ON
AND SELECT
SPECIAL FUNCTIONS,
THEN SELECT PRECODING
THEN SELECT
VW, AUDI, SEAT OR SKODA

INSERT CORRECT BLANK
TRANSPONDER INTO
AD900 PRO.
ENTER THE 8 BYTES OF
DATA INTO THE AD900
PRO.
PRESS NEXT ON THE
AD900 PRO, AND IT WILL
NOW WRITE THAT CODE
TO THE TRANSPONDER.
IF WRITING IS SUCCESSFUL
REMOVE TRANSPONDER
AND PLACE INTO THE NEW
KEY AND PROGRAM KEY.

SWITCH AD900 PRO
IGNITION, BUT DO NOT
TURN IGNITION ON.
CHECK THE CORRECT
TRANSPONDER STATUS
FOR ANY CHANGE FROM
NO TO YES.

IF CORRECT
TRANSPONDER IS YES
THEN PROCEED TO
PROGRAM THIS KEY AS
NORMAL.
IF NO THEN CONTINUE

REMOVE TRANSPONDER
AND PLACE BACK INTO THE
AD900 PRO.
PRESS THE NEXT BUTTON
AND THE AD900 PRO WILL
INCREMENT THE CODE TO
THE NEXT VALUE.

INSERT TRANSPONDER
INTO THE KEY AND REPEAT
THE AUTHENTICATION
CHECK UNTIL YOU HAVE A
YES ON THE KEY
INFORMATION SCREEN.

IF DISPLAY MOVES ONTO
'CONTINUE SCANNING
SCREEN' THIS INDICATES
THAT PRECODING DATA IS
INCOMPLETE. REMOVE THE
TRANSPONDER AND PLACE
INTO THE NEW KEY.

IF DISPLAY MOVES ONTO
'CONTINUE SCANNING
SCREEN' THIS INDICATES
THAT PRECODING DATA IS
INCOMPLETE. REMOVE THE
TRANSPONDER AND PLACE
INTO THE NEW KEY.
SPECIAL FUNCTIONS

VAG 2013 - ADS219 - VDO

PROGRAM KEYS

A WORKING KEY IS REQUIRED FOR MOST VEHICLES WITH VDO CLUSTERS.
ERASE KEYS WHEN YOU HAVE A WORKING KEY BUT THE OTHER KEYS HAVE BEEN LOST

VEHICLE SELECTION
+ SSANGYONG
+ SAAB
+ SUZUKI
+ SUBARU
+ TOYOTA
+ VOLKSWAGEN

VEHICLE SELECTION
+ AUTO DETECT
+ BY SYSTEM
+ BY VEHICLE

ECU IDENTIFICATION

VIN: WV WZZZ1KZAW203885
PART: WV WZZZ1KZAW202
ID: 5K0 953 236 2
TYPE: IMMO 28

SYSTEM SELECTION

+ IMMOBILISER
+ REMOTE

WARNING

NEW KEYS MUST CONTAIN VIRGIN MEGAMOS ID48 TRANSPONDERS

NOTE

DASH PANEL WILL SWITCH ON / OFF DURING KEY PROGRAMMING. DASH PANEL WILL BE RESET AFTER PROCEDURE IS COMPLETE

PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?

\[ \PageIndex \]

GAINING ACCESS

..................

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

WARNING

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SWITCH IGNITION ON

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PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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GAINING ACCESS

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PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?

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GAINING ACCESS

..................

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?

\[ \PageIndex \]

GAINING ACCESS

..................

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?

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GAINING ACCESS

..................

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?

\[ \PageIndex \]

GAINING ACCESS

..................

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?

\[ \PageIndex \]

GAINING ACCESS

..................

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?

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GAINING ACCESS

..................

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?

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GAINING ACCESS

..................

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?

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GAINING ACCESS

..................

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

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PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?

\[ \PageIndex \]

GAINING ACCESS

..................

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY

PROGRAM KEYS

SWITCH IGNITION ON

WARNING

NEW KEYS MUST CONTAIN VIRGIN MEGAMOS ID48 TRANSPONDERS

NOTE

DASH PANEL WILL SWITCH ON / OFF DURING KEY PROGRAMMING. DASH PANEL WILL BE RESET AFTER PROCEDURE IS COMPLETE

PROGRAM KEYS

DO YOU WANT TO ERASE KEYS?
THE PROGRAMMED KEY SHOULD BE DISPLAYED IN THE CLUSTER
1-1
WHEN AN ADDITIONAL KEY IS PROGRAMMED THE CLUSTER WILL DISPLAY
2 - 2

DO YOU WANT TO PROGRAM MORE KEYS

PROGRAM KEYS

SWITCH IGNITION OFF
REMOVE KEY
PRESS ENTER KEY

PROGRAM KEYS

INSERT KEY TO PROGRAM
SWITCH IGNITION ON
PRESS ENTER KEY

DO YOU WANT TO PROGRAM MORE KEYS

PROGRAM KEYS

PRESS ENTER KEY

PROGRAM REMOTE

PRESS UNLOCK BUTTON
PRESS ENTER KEY

DO YOU WANT TO PROGRAM MORE REMOTES

PROGRAM REMOTE

PRESS ENTER KEY

DO YOU WANT TO ERASE REMOTES

PROGRAM REMOTE

PRESS ENTER KEY

REPEAT THE PROCEDURE FOR ADDITIONAL REMOTES
CYCLE REMOTES AFTER PROGRAMMING
NO WORKING KEY IS REQUIRED FOR MOST VEHICLES WITH MARELLI CLUSTERS. ERASE KEYS WHEN YOU HAVE A WORKING KEY BUT THE OTHER KEYS HAVE BEEN LOST.

PROGRAM KEYS

NO WORKING KEY IS REQUIRED FOR MOST VEHICLES WITH MARELLI CLUSTERS. ERASE KEYS WHEN YOU HAVE A WORKING KEY BUT THE OTHER KEYS HAVE BEEN LOST.

VEHICLE SELECTION
+ SSANGYONG
+ SAAB
+ SUZUKI
+ SUBARU
+ TOYOTA
+ VOLKSWAGEN

VEHICLE SELECTION
+ AUTO DETECT
+ BY SYSTEM
+ BY VEHICLE

ECU IDENTIFICATION

VIN: WV WZZZAZED016803
PART:WVWZZZAZED016
ID:ISO 920 960N 1
TYPE:IMMO 68

IS THE CODE CORRECT
 

KEY INFORMATION

MODE:06
TOTAL KEYS REQD: 03
KEYS PROGRAMMED:03
IGN. KEY ID: F3 0A 8F 9F
KEY # 01 ID: F3 0A 8F 49
KEY # 02 ID: 38 98 E0 AB
KEY # 03 ID: FE 98 E0 AB

WARNING
NEW KEYS MUST CONTAIN VIRGIN MEGAMOS ID48 TRANSPONDERS

NOTE
DASH PANEL WILL SWITCH ON / OFF DURING KEY PROGRAMMING. DASH PANEL WILL BE RESET AFTER PROCEDURE IS COMPLETE

SWITCH IGNITION ON
PRESS ENTER KEY

ACCESS GAINED

SWITCH IGNITION OFF
REMOVE KEY
PRESS ENTER KEY

INSERT KEY TO PROGRAM
SWITCH IGNITION ON
PRESS ENTER KEY
PROGRAM KEYS

DO YOU WANT TO PROGRAM MORE KEYS?

 ✔

THE PROGRAMMED KEY SHOULD BE DISPLAYED IN THE CLUSTER

1-1

WHEN AN ADDITIONAL KEY IS PROGRAMMED THE CLUSTER WILL DISPLAY

2 - 2

PROGRAM KEYS

ACCESS GAINED

PRESS ENTER KEY

PROGRAM KEYS

PRESS ENTER KEY

PROGRAM REMOTE

PRESS UNLOCK BUTTON

PRESS ENTER KEY

PROGRAM REMOTES

DO YOU WANT TO ERASE REMOTES?

 ✔

ERASE REMOTES

PLEASE WAIT

*************

PROGRAM REMOTE

PRESS UNLOCK BUTTON

PRESS ENTER KEY

PROGRAM REMOTES

DO YOU WANT TO PROGRAM MORE REMOTES?

 ✔

PROGRAM REMOTE

PRESS UNLOCK BUTTON

PRESS ENTER KEY

PROGRAM REMOTE

PRESS UNLOCK BUTTON

PRESS ENTER KEY

PROGRAM REMOTE

PRESS UNLOCK BUTTON

PRESS ENTER KEY

THE PROGRAMMED KEY SHOULD BE DISPLAYED IN THE CLUSTER

1-1

WHEN AN ADDITIONAL KEY IS PROGRAMMED THE CLUSTER WILL DISPLAY

2 - 2

REPEAT THE PROCEDURE FOR ADDITIONAL REMOTES

CYCLE REMOTES AFTER PROGRAMMING

THEORY OF OPERATION

The Marelli immobiliser system is designed to prevent unauthorized access to vehicles by preventing the operation of the engine after the removal of the key. The system utilizes a combination of electronic components and hardware to ensure that only authorized keys can be used to start the vehicle. When a key is inserted into the ignition, the system verifies the key's authenticity by comparing it with the programmed data stored in the vehicle's electronic control unit (ECU). If the key is valid, the ECU authorizes the ignition to start the engine. If the key is not recognized, the system will disable the ignition and prevent the vehicle from starting.

The immobiliser system is typically activated when the key is removed from the ignition, which acts as a signal to the ECU to de-authorize the key. This feature helps prevent theft by limiting the duration of time that unauthorized keys can be used to operate the vehicle. If a key is lost or stolen, it can be programmed to be non-functional, thereby ensuring the security of the vehicle.
Remote Control Programming (1997 ON)

Procedure
1. Switch Ignition ON and leave the key in the ignition.
2. Mechanically lock the vehicle using the drivers door using a second key.
3. Using the remote control press the unlock button once, and the horn will sound once.
4. Wait 6 seconds and press the unlock button once to activate the coding procedure. The remote control will now be programmed.

NOTE: When performing programming on additional remotes the procedure is the same, except you press the unlock button 2, 3 or 4 times for the different remote.

For example: If programming 2 remotes press the unlock button twice with a 1 second interval between each press, repeat for 3 and 4 remotes.

5. Switch Ignition OFF.
6. Remove key from ignition and check for operation.
7. The coding procedure can be repeated up to 4 times for additional remotes.
8. The ignition must be switched OFF between programming each remote control.

Remote Control Erasing (1997 ON)

Procedure
1. Switch Ignition ON and leave the key in the ignition.
2. Mechanically lock the vehicle using the Drivers door using a second key.
3. Press the remote control lock button 5 times in 1 second intervals. A short horn will sound or indicators will flash.
4. Wait 6 seconds and press the unlock button once to activate memory erase.
5. Switch ignition OFF, all remotes are now erased.

Remote Control Synchronisation (VAG CAN Vehicles)

Procedure
1. Open the car using the drivers door.
2. Press the remote control unlock button once.
3. Put the key into the ignition and switch on.
4. Switch ignition off and remove the key.
5. Press a button on the remote control.
6. Procedure Complete.
General

ADC187 is a cable designed specifically for use on VAG vehicles. It is used for performing a “force ignition” operation – this means turning ON the ignition electronically, rather than using an ignition key or start button. This is usually required when we need to read a PIN before programming a key but the vehicle does not allow the ignition to be turned ON using an un-programmed key. Another use for the ADC187 is to enable you to turn the ignition ON before cutting a mechanical key – this may be necessary to electronically check the mechanical key number or as a test to make sure you can read the PIN before cutting a (possibly expensive) transponder key. The principle of operation for ADC187 is to put a battery feed to the ignition system of the vehicle prior to the process of PIN reading, it is however NOT required when programming a key. If you leave the ADC187 connected whilst performing key programming you run the risk of damaging the vehicles immobiliser system, or not being able to program more than one key (because you cannot turn the ignition OFF with the ADC187 connected).

Operation

First gain access to the vehicle battery (usually under the bonnet on VAG vehicles) and connect the red battery clip to the positive terminal of the battery: Once you have connected the battery positive clip you will need to gain access to the vehicles fuse box. This may be the under bonnet fuse box, or one of the fuse boxes inside the vehicle.

WARNING: Be very careful not to touch any of the fuse link tips onto the vehicle bodywork – this will blow the inline fuse and will mean that the cable will not work.

VW TOURAN (1T)

VW GOLF (1K)
IGNITION BYPASS INFORMATION

**VW PASSAT (3B)**

**FUSE 31**

**VW PASSAT (3C)**

**FUSE 1**

**VW TOUAREG (7L) DIESEL**

**FUSE 26**

Touareg Diesel - insert into fuse 26
IGNITION BYPASS INFORMATION

VW TOUAREG (7L) PETROL

Fuse 26 & 36
IGNITION BYPASS INFORMATION

VW TIGUAN (5N)

FUSE 25

VW POLO (9N)

FUSE 14

VW JETTA (1K)

FUSE 4
IGNITION BYPASS INFORMATION

VW LT 35 (2D)

FUSE 2

VW CADDY (2K)

FUSE 11

VW TRANSPORTER (7H)

FUSE 20
IGNITION BYPASS INFORMATION

VW SCIRROCO (13)

FUSE 6

VW BEETLE (1Y)

FUSE 9

VW SHARAN (7M6)

FUSE 1
IGNITION BYPASS INFORMATION

VW FOX (5Z)

FUSE 30

VW SHARAN (7N1)

FUSE 16

VW POLO (6R)

FUSE 2
IGNITION BYPASS INFORMATION

AUDI A3 (8P)

FUSE 1

AUDI A4 (8E)

FUSE 43

AUDI A6 (4F)

FUSE 7
IGNITION BYPASS INFORMATION

AUDI Q5 (8R) - FUSE 16

AUDI Q7 (4L)

FUSE 5 IN BLACK FUSE HOLDER

AUDI TT (8J)

FUSE 12
IGNITION BYPASS INFORMATION

AUDI A4 (8K)

FUSE 15 & 16
IGNITION BYPASS INFORMATION

SEAT LEON (1P)

FUSE 6

SEAT ALTEA (5P)

FUSE 9

SEAT ALHAMBRA (7N)

FUSE 1
IGNITION BYPASS INFORMATION

SEAT IBIZA (6L)

FUSE 17

SKODA FABIA (6Y)

FUSE 7

SKODA OCTAVIA (1Z)

FUSE 1
IGNITION BYPASS INFORMATION

SKODA ROOMSTER (5J)

FUSE 10

SKODA FABIA (545)

FUSE 14
IGNITION BYPASS INFORMATION

PORSCHE CAYENNE (9PA)
FUSE 26 & 36

BENTLEY CONTINENTAL (3W3)
FUSE 54
VEHICLE IDENTIFICATION LABELS

UNDER THE REAR SEAT
AUDI A4 (8ED ESTATE)

REAR SIDE PANEL
SEAT ALHAMBRA (7M)
VW SHARAN (7M)

ABOVE FUSE PANEL
VW CADDY (2K)
VEHICLE IDENTIFICATION LABELS

**DIAGNOSTIC SOCKET COVER**
VW CRAFTER (2F)

**FUSE BOX COVER**
VW LT (2D)

**REAR COMPARTMENT**
MOST MODELS FOR VW, AUDI, SEAT AND SKODA ARE FOUND IN THIS LOCATION.
VEHICLE IDENTIFICATION LABELS

ABOVE PEDALS
VW TRANSPORTER (7H)

UNDER DRIVERS SEAT
VW TRANSPORTER (7H)
VEHICLE IDENTIFICATION LABELS

SAMPLE LABEL

SERVICE BOOK LOCATION
**TIPS & HINTS**

**PRECAUTIONS**

**IMPORTANT:** PLEASE ENSURE ALL PRECAUTIONS ARE OBSERVED AS INDICATED AT THE FRONT OF THE OPERATING MANUAL.

**IN PARTICULAR:** For vehicles fitted with STOP/START technology, the battery leads must not be shorted together when the battery is disconnected as this can lead to damage to the car and potential personal injury.
AD900Pro
Transponder Cloning

The most advanced key transponder cloning tool in the market - that reads, writes, copies, a wide range of automotive transponders worldwide. Complimenting the AD100Pro / MVPPro.

AD600
Code Wizard Pro
PINCODE Generator

AD600 is a software program that supports various vehicle manufacturers and provides the ability to generate immobiliser PINCODES, mechanical key codes including dealer tool security codes.

AD35
Remote Control Tester

AD35 is an innovative remote control tester developed to assist with the diagnosis of all types of (IR) Infra Red & (RF) Radio Frequency remote controls for all makes & models.

www.advanced-diagnostics.com