

# ADVANCED DIAGNOSTICS

Unlocking Technology

## VW / Audi Group

(Version 8.0)



SEAT



World Leaders In Automotive Key Programming Equipment

[www.advanced-diagnostics.com](http://www.advanced-diagnostics.com)





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# APPLICATIONS Have Moved to IQ - Online

# A



WWW.ADUSA.US

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/>

## VAG Software

ADS115

VW - Audi - Seat - Skoda

ADS146

Bentley - Porsche - VW - Seat - Skoda  
CAN BUS

ADS186

VAG 2012

# DIAGNOSTIC SOCKETS/PORTS

# B

## AUDI



A2



A4



A6



TT(8J)



COUPE



NEW A6



ALLROAD



A3



A8



Q7



Q5



A4 (8K)

# DIAGNOSTIC SOCKETS/PORTS

# B

## AUDI



R8



A3 8P



A5 8T

WWW.ADVANCED-DIAGNOSTICS.CO.UK

WWW.ADUSA.US

# DIAGNOSTIC SOCKETS/PORTS

# B

## SEAT



LEON



AROSA



TOLEDO (PRE CAN)



IBIZA



LEON 2007+



IBIZA 6J



ALTEA



ALHAMBRA 7M9

WWW.ADUSA.US

# DIAGNOSTIC SOCKETS/PORTS

# B

## SKODA



FELICIA



OCTAVIA



OCTAVIA



TOLEDO (CAN)



FABIA



ROOMSTER



FABIA (545)



OCTAVIA (1Z)

WWW.ADUSA.US

# DIAGNOSTIC SOCKETS/PORTS

# B

## VOLKSWAGEN



TOUAREG



TIGUAN



GOLF



PASSAT



PASSAT 2



POLO



SHARAN



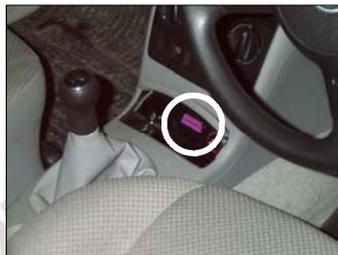
GOLF



BETLE



CARAVELLE



LUPO



POLO

# DIAGNOSTIC SOCKETS/PORTS

# B

## VOLKSWAGEN



POLO



LT



TOURAN



GOLF MK 5



CRAFTER



CADDY



PHAETON



PASSAT



CARAVELLE 7HM



SCIROCCO



POLO 9R



SHARAN 7M6

# DIAGNOSTIC SOCKETS/PORTS

# B

## VOLKSWAGEN



FOX 5Z



CRAFTER



AMOROK 2H



LUPO 6X1

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# GENERAL OPERATION

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.

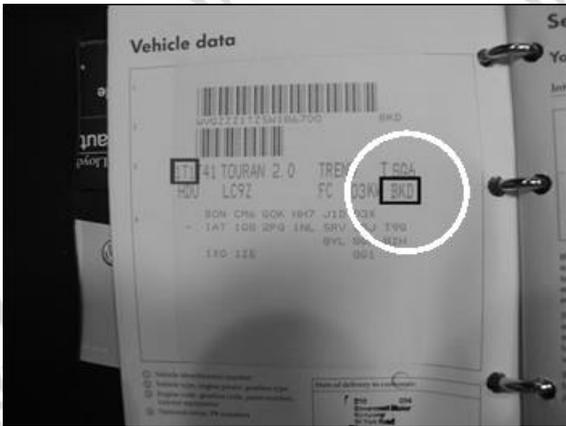
# GENERAL OPERATION

# C

## ENGINE CODE IDENTIFICATION (ENGINE)



## (SERVICE BOOK)



## (WHEEL WELL/BOOT)



# 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

#### PROGRAMMING KEYS

KEYS PROGRAMMED : 2  
TOTAL KEYS REQD : 1

X

✓

#### VEHICLE SELECTION

- + BEETLE
- + CADDY
- + EOS
- + FOX
- + GOL
- + GOLF/BORA/JETTA

#### DIAGNOSTIC MENU

- PROGRAM KEYS
- KEY COUNT

PLEASE PROGRAM  
ADDITIONAL KEYS  
IF NECESSARY

PRESS ENTER KEY

#### VEHICLE SELECTION

- + 6N
- + 9N

#### 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 SE-  
LECTED ON THE PREVIOUS  
SCREENS, 2 KEYS MUST  
NOW BE CYCLED IN.**

PRESS ENTER KEY

#### SECURITY CODE

22BC

X

✓

#### VEHICLE SELECTION

#### IMMOBILISER

- REMOTE
- SRS AIRBAG
- AUTO.GEARBOX
- READ PIN CODE

#### PROGRAMMING KEYS

ACCESS GAINED

SWITCH IGNITION ON

PRESS ENTER KEY

#### ECU IDENTIFICATION

1H093267 B  
IMMO VWZ3Z0V  
4191855 V00

#### PROGRAMMING KEYS

KEYS PROGRAMMED : 2  
TOTAL KEYS REQD :

1	2	3	4	5
6	7	8	9	0

PRESS ENTER KEY

# SPECIAL FUNCTIONS

## VW/SEAT/SKODA/AUDI—SYSTEM 2

### PROGRAM KEYS

#### VEHICLE SELECTION

- + SSANGYONG
- + SAAB
- + SUZUKI
- + SUBARU
- + TOYOTA
- + VOLKSWAGEN

### PROGRAM KEYS

#### DIAGNOSTIC MENU

- ECU IDENTIFICATION
- FAULT CODES
- SPECIAL FUNCTIONS

### PROGRAM KEYS

#### SECURITY CODE

----

1	2	3	4	5
6	7	8	9	0

#### VEHICLE SELECTION

- + BEETLE
- + CADDY
- + EOS
- + FOX
- + GOL
- + GOLF/BORA/JETTA

#### DIAGNOSTIC MENU

- PROGRAM KEYS
- SECURITY INFO
- KEYS PROGRAMMED

#### SECURITY CODE

22BC

X	✓
---	---

#### VEHICLE SELECTION

- + 6N
- + 9N

#### SECURITY INFORMATION

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

#### PROGRAMMING KEYS

ACCESS GAINED

PRESS ENTER KEY

PRESS ENTER

#### VEHICLE SELECTION

##### IMMOBILISER

- REMOTE
- SRS AIRBAG
- AUTO.GEARBOX
- READ PIN CODE

**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

KEYS PROGRAMMED : 2  
 TOTAL KEYS REQD :

1	2	3	4	5
6	7	8	9	0

SWITCH IGNITION ON

PRESS ENTER KEY

#### SECURITY INFORMATION

IMMO STATUS  
 NO INFORMATION RECEIVED

PRESS ENTER

#### PROGRAMMING KEYS

KEYS PROGRAMMED : 2  
 TOTAL KEYS REQD : 1

X	✓
---	---

#### ECU IDENTIFICATION

1H093267 B  
 IMMO VWZ3Z0V  
 4191855 V00

PRESS ENTER KEY

#### DIAGNOSTIC MENU

- PROGRAM KEYS
- SECURITY INFO
- KEYS PROGRAMMED

PRESS ENTER KEY

PLEASE PROGRAM  
 ADDITIONAL KEYS  
 IF NECESSARY

PRESS ENTER KEY

# SPECIAL FUNCTIONS

## VOLKSWAGEN—TOUAREG

### ERASE KEYS

#### VEHICLE SELECTION

- + SSANGYONG
- + SAAB
- + SUZUKI
- + SUBARU
- + TOYOTA
- + VOLKSWAGEN**

### ERASE KEYS

#### ECU IDENTIFICATION

ID : 3D0 909 139B

PRESS ENTER KEY

### ERASE KEYS

#### SECURITY CODE

----

1	2	3	4	5
6	7	8	9	0

#### VEHICLE SELECTION

- + BEETLE
- + CADDY
- + EOS
- + FOX
- + GOL
- + TOUREG**

#### DIAGNOSTIC MENU

- ECU IDENTIFICATION
- FAULT CODES
- SPECIAL FUNCTIONS**

#### SECURITY CODE

0 1 2 3 4

**x**

**✓**

#### VEHICLE SELECTION

- + 7LA**

#### DIAGNOSTIC MENU

- ERASE KEYS
- KEY PROGRAMMING
- KEY INFORMATION**

#### PROGRAMMING KEYS

ACCESS GRANTED

PRESS ENTER KEY

PRESS ENTER KEY

#### VEHICLE SELECTION

- IMMOBILISER**
- READ PIN CODE

#### KEY INFORMATION

NUMBER OF KEYS : 1  
 61 16 25 00 BF 25 00 28  
 00 BF 08 0A 01 B6 38 34  
 0 03 00 00 E8 00 00 0E 2C

#### PLEASE WAIT

.....

PRESS ENTER KEY

#### VEHICLE SELECTION

- READ PIN EMS
- READ PIN EDC**

#### DIAGNOSTIC MENU

- ERASE KEYS**
- KEY PROGRAMMING
- KEY INFORMATION

#### ERASE KEYS

KEYS ERASED

PRESS ENTER KEY

PRESS ENTER KEY

PRESS AND HOLD BRAKE

ERASE KEYS  
 ARE YOU SURE

**x**

**✓**

PRESS ENTER KEY

# SPECIAL FUNCTIONS

## VOLKSWAGEN—TOUAREG

### PROGRAM KEYS

#### DIAGNOSTIC MENU

ERASE KEYS

KEY PROGRAMMING

KEY INFORMATION

PRESS ENTER KEY

REMOVE KEY

PRESS ENTER KEY

SECURITY CODE

-----

1	2	3	4	5
6	7	8	9	0

SECURITY CODE

0 1 2 3 4

X

✓

PROGRAM KEYS

TOTAL KEYS REQD : 1

X

✓

INSERT KEY

WAIT FOR  
DASHBOARD TO LIGHT

PRESS ENTER KEY

### PROGRAM KEYS

SECURITY ACCESS

ACCESS GRANTED

PLEASE WAIT  
.....

REMOVE KEY

PLEASE WAIT  
.....

INSERT KEY

TURN KEY TO START VEHICLE  
AND HOLD  
UNTIL STEERING UNLOCKS

PRESS ENTER KEY

### PROGRAM KEYS

REMOVE KEY

PRESS ENTER KEY

INSERT KEY

PRESS ENTER KEY

PLEASE WAIT

05 MINUTES

TIME ELAPSED : 0

PROGRAM KEYS

PROCEDURE COMPLETE

PRESS ENTER KEY

# SPECIAL FUNCTIONS

## PIN CODE READING EMS SYSTEMS

### PIN CODE READING

#### VEHICLE SELECTION

- + SSANGYONG
- + SAAB
- + SUZUKI
- + SUBARU
- + TOYOTA
- + VOLKSWAGEN

### PIN CODE READING

SWITCH IGNITION ON

PRESS ENTER KEY

### PIN CODE READING

**NOTE : THE PIN CODE READING IS NOW DONE BY IDENTIFYING THE ENGINE CODE.**

**EXAMPLES ARE SHOWN BELOW.**

#### VEHICLE SELECTION

- + BEETLE
- + CADDY
- + EOS
- + FOX
- + GOL
- + GOLF/BORA/JETTA

#### ECU IDENTIFICATION

+ ML906032 1.8L R4  
0010R4/5.VT  
ML906032  
1.8L VT

PRESS ENTER KEY

#### VEHICLE SELECTION

- + 6N
- + 9N

PRESS ENTER KEY

#### DIAGNOSTIC MENU

- ECU IDENTIFICATION
- FAULT CODES
- SPECIAL FUNCTIONS

PRESS ENTER KEY

#### VEHICLE SELECTION

- IMMOBILISER
- REMOTE
- AUTO.GEARBOX
- PIN CODE READING
- VAG SRS

#### VEHICLE SELECTION

READ PINCODE

#### VEHICLE SELECTION

- DASHBOARD
- PINCODE SYSTEM 1
- READ PIN EMS
- READ PIN CAN
- READ PIN EDC

#### READ PINCODE

PLEASE WAIT  
.....

#### VEHICLE SELECTION

- AAC
- AEE
- BXE
- BXD
- BYA

PRESS ENTER KEY

#### PINCODE

9997

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

PRESS ENTER KEY

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

# SPECIAL FUNCTIONS

## PIN CODE READING EDC SYSTEMS

### PIN CODE READING

#### VEHICLE SELECTION

- + SSANGYONG
- + SAAB
- + SUZUKI
- + SUBARU
- + TOYOTA
- + VOLKSWAGEN

### PIN CODE READING

SWITCH IGNITION ON

PRESS ENTER KEY

### PIN CODE READING

**NOTE : THE PIN CODE READING IS NOW DONE BY IDENTIFYING THE ENGINE CODE.**

**EXAMPLES ARE SHOWN BELOW.**

#### VEHICLE SELECTION

- + BEETLE
- + CADDY
- + EOS
- + FOX
- + GOL
- + GOLF/BORA/JETTA

#### ECU IDENTIFICATION

VAG EDC

PRESS ENTER KEY

#### VEHICLE SELECTION

- + 6N
- + 9N

PRESS ENTER KEY

#### DIAGNOSTIC MENU

- ECU IDENTIFICATION
- SPECIAL FUNCTIONS

PRESS ENTER KEY

#### VEHICLE SELECTION

- IMMOBILISER
- REMOTE
- AUTO.GEARBOX
- PIN CODE READING
- VAG SRS

#### VEHICLE SELECTION

READ PINCODE

#### VEHICLE SELECTION

- DASHBOARD
- PINCODE SYSTEM 1
- READ PIN EMS
- READ PIN CAN
- READ PIN EDC

#### READ PINCODE

PLEASE WAIT

.....

#### VEHICLE SELECTION

- AAC
- AEE
- BXE
- BXD
- BYA

PRESS ENTER KEY

#### PINCODE

PIN CODE 9997

AD900 PRO PRECODING

2A 3C 4F 54 66 88 12 36

PRESS ENTER KEY

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

# SPECIAL FUNCTIONS

## 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.

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

### AD900 PRO PRECODE

INSERT KEY INTO  
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.

# 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

SWITCH IGNITION ON

PRESS ENTER KEY

### ECU IDENTIFICATION

DETECTING VEHICLE MODEL  
PLEASE WAIT  
\*\*\*\*\*

### ECU IDENTIFICATION

VIN:WV WZZZ1KZAW203885  
GOLF / SAGITAR (1K)  
PROTOCOL: CAN UDS

IS THE CODE CORRECT



### SYSTEM SELECTION

- + IMMOBILISER
- + REMOTE

### ECU IDENTIFICATION

VIN:WV WZZZ1KZAW203885  
PART:WVWZZZ1KZAW202  
ID:5K0 953 236 2  
TYPE:IMMO 28

PRESS ENTER KEY

### DIAGNOSTIC MENU

- ECU IDENTIFICATION
- SPECIAL FUNCTIONS

### DIAGNOSTIC MENU

- PROGRAM KEYS
- KEY INFORMATION

### KEY INFORMATION

MODE:06  
TOTAL KEYS REQD: 03  
KEYS PROGRAMMED:03  
IGN. KEY ID: 6C 0A 8F 9F  
KEY # 01 ID: 6C 0A 8F 49  
KEY # 02 ID: 10 98 E0 AB  
KEY # 03 ID: 10 98 E0 AB

PRESS ENTER KEY

### DIAGNOSTIC MENU

- PROGRAM KEYS
- KEY INFORMATION

### WARNING

NEW KEYS MUST  
CONTAIN VIRGIN  
MEGAMOS ID48 TRANSPONDERS

PRESS ENTER KEY

### NOTE

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

PRESS ENTER KEY

### PROGRAM KEYS

DO YOU WANT TO  
ERASE KEYS?



### GAINING ACCESS

\*\*\*\*\*

### PROGRAM KEYS

SWITCH IGNITION OFF  
REMOVE KEY

PRESS ENTER KEY

### PROGRAM KEYS

INSERT KEY TO PROGRAM  
SWITCH IGNITION ON

PRESS ENTER KEY

# SPECIAL FUNCTIONS

## VAG 2013 - ADS219 - VDO

### PROGRAM KEYS CONTIN

### PROGRAM REMOTES

THE PROGRAMMED KEY SHOULD BE DISPLAYED IN THE CLUSTER

1 - 1

WHEN AN ADDITIONAL KEY IS PROGRAMMED THE CLUSTER WILL DISPLAY

2 - 2

**SYSTEM SELECTION**

+ IMMOBILISER

+ REMOTE

**ERASE REMOTES**

PLEASE WAIT

\*\*\*\*\*

**PROGRAM KEYS**

DO YOU WANT TO PROGRAM MORE KEYS

PLEASE WAIT

TRYING TO COMMUNICATE

WWW.ADUSA.US

**PROGRAM REMOTE**

PRESS UNLOCK BUTTON

PRESS ENTER KEY

**PROGRAM KEYS**

SWITCH IGNITION OFF

REMOVE KEY

PRESS ENTER KEY

**ECU IDENTIFICATION**

ID: 1K5 937 086

PRESS ENTER KEY

**PROGRAM REMOTE**

DO YOU WANT TO PROGRAM MORE REMOTES

**PROGRAM KEYS**

INSERT KEY TO PROGRAM

SWITCH IGNITION ON

PRESS ENTER KEY

**DIAGNOSTIC MENU**

ECU IDENTIFICATION

SPECIAL FUNCTIONS

**PROGRAM REMOTE**

PROCEDURE COMPLETE

PRESS ENTER KEY

**PROGRAM KEYS**

DO YOU WANT TO PROGRAM MORE KEYS

**DIAGNOSTIC MENU**

PROGRAM REMOTES

WWW.ADUSA.US

REPEAT THE PROCEDURE FOR ADDITIONAL REMOTES

CYCLE REMOTES AFTER PROGRAMMING

**PROGRAM KEYS**

PROCEDURE COMPLETE

PRESS ENTER KEY

**PROGRAM REMOTES**

DO YOU WANT TO ERASE REMOTES

# SPECIAL FUNCTIONS

## VAG 2013 - ADS219 - MARELLI

### 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

**SYSTEM SELECTION**

+ IMMOBILISER

+ REMOTE

**WARNING**

NEW KEYS MUST CONTAIN VIRGIN MEGAMOS ID48 TRANSPONDERS

PRESS ENTER KEY

**VEHICLE SELECTION**

+ SSANGYONG

+ SAAB

+ SUZUKI

+ SUBARU

+ TOYOTA

+ VOLKSWAGEN

**ECU IDENTIFICATION**

VIN: WV WZZZAAZED016803

PART:WVWZZZAAZED016

ID:ISO 920 960N 1

TYPE:IMMO 68

PRESS ENTER KEY

**NOTE**

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

PRESS ENTER KEY

**VEHICLE SELECTION**

+ AUTO DETECT

+ BY SYSTEM

+ BY VEHICLE

**DIAGNOSTIC MENU**

ECU IDENTIFICATION

**SPECIAL FUNCTIONS**

**PROGRAM KEYS**

DO YOU WANT TO ERASE KEYS?

SWITCH IGNITION ON

PRESS ENTER KEY

**DIAGNOSTIC MENU**

PROGRAM KEYS

**KEY INFORMATION**

**PROGRAM KEYS**

ACCESS GAINED

**ECU IDENTIFICATION**

DETECTING VEHICLE MODEL

PLEASE WAIT

\*\*\*\*\*

**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

PRESS ENTER KEY

SWITCH IGNITION OFF

REMOVE KEY

PRESS ENTER KEY

**ECU IDENTIFICATION**

VIN:WV WZZZAAZED016803

UPI (AA)

PROTOCOL: CAN UDS

IS THE CODE CORRECT

**DIAGNOSTIC MENU**

PROGRAM KEYS

KEY INFORMATION

**PROGRAM KEYS**

INSERT KEY TO PROGRAM

SWITCH IGNITION ON

PRESS ENTER KEY

# SPECIAL FUNCTIONS

## VAG 2013 - ADS219 - MARELLI

### PROGRAM KEYS CONTIN



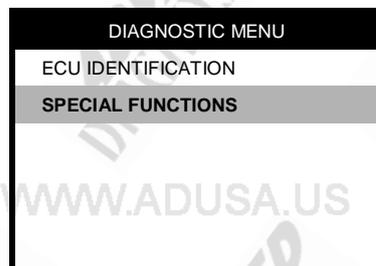
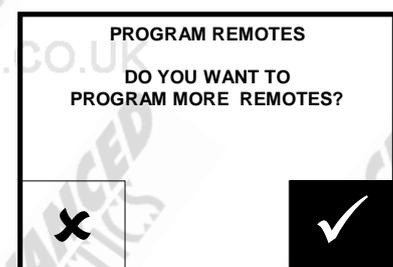
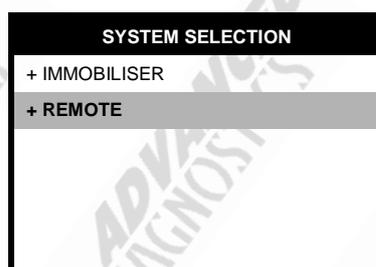
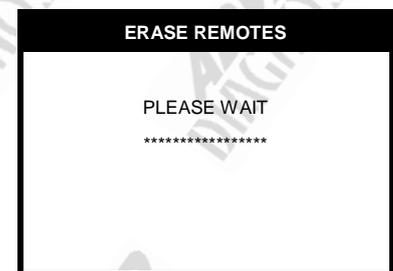
THE PROGRAMMED KEY SHOULD BE DISPLAYED IN THE CLUSTER

1 - 1

WHEN AN ADDITIONAL KEY IS PROGRAMMED THE CLUSTER WILL DISPLAY

2 - 2

### PROGRAM REMOTES



REPEAT THE PROCEDURE FOR ADDITIONAL REMOTES

CYCLE REMOTES AFTER PROGRAMMING

# REMOTE PROGRAMMING



## 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

# IGNITION BYPASS INFORMATION

# F

## 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)

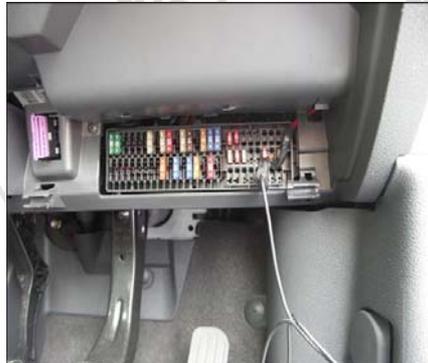


## Operation

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)



FUSE 11

## VW GOLF (1K)



FUSE 6

# IGNITION BYPASS INFORMATION

# F

VW GOLF (5M)



FUSE 11

VW GOLF (5K)



FUSE 6

6VW EOS (1F)



FUSE 6

# IGNITION BYPASS INFORMATION

# F

## VW PASSAT (3B)



FUSE 31

## VW PASSAT (3C)



FUSE 1

## VW TOUAREG (7L) DIESEL



FUSE 26

# IGNITION BYPASS INFORMATION

# F

VW TOUAREG (7L) PETROL



ADVANCED-DIAGNOSTICS.CO.UK

FUSE 26 & 36

WWW.ADUSA.US

WWW.ADVANCED-DIAGNOSTICS.CO.UK

WWW.ADUSA.US

# IGNITION BYPASS INFORMATION

# F

## VW TIGUAN (5N)



FUSE 25

## VW POLO (9N)



FUSE 14

## VW JETTA (1K)



FUSE 4

WWW.ADVANCED-DIAGNOSTICS.CO.UK

# IGNITION BYPASS INFORMATION

# F

VW LT 35 (2D)



FUSE 2

VW CADDY (2K)



FUSE 11

VW TRANSPORTER (7H)

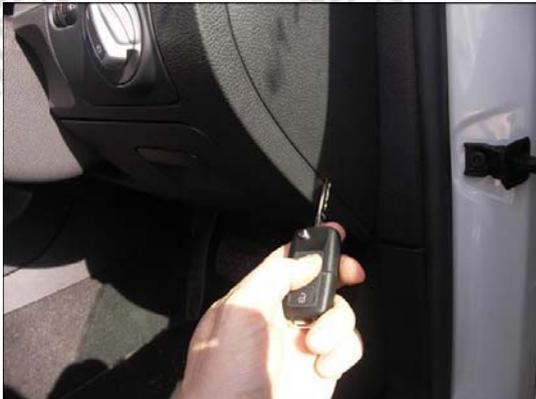


FUSE 20

# IGNITION BYPASS INFORMATION

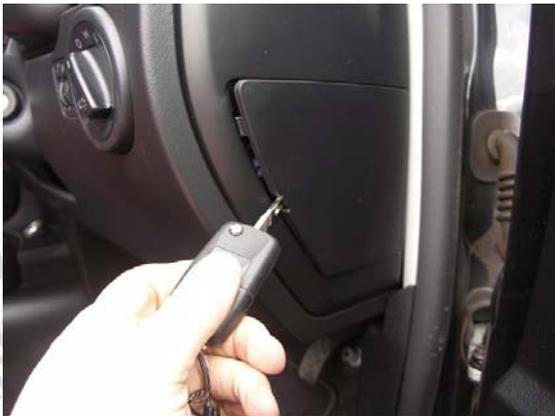
# F

VW SCIROCO (13)



FUSE 6

VW BEETLE (1Y)



FUSE 9

VW SHARAN (7M6)



FUSE 1

# IGNITION BYPASS INFORMATION

# F

VW FOX (5Z)



FUSE 30

VW SHARAN (7N1)



FUSE 16

VW POLO (6R)



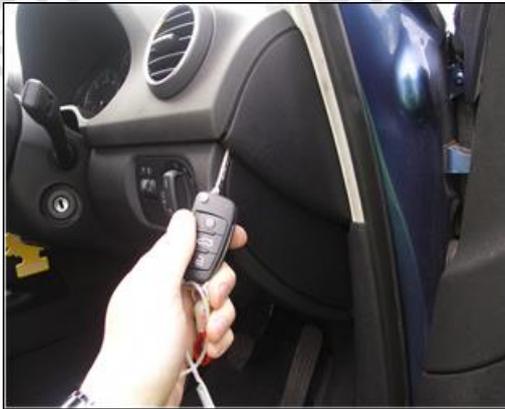
FUSE 2

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# IGNITION BYPASS INFORMATION



AUDI A3 (8P)



FUSE 1

AUDI A4 (8E)



FUSE 43

AUDI A6 (4F)



FUSE 7

# IGNITION BYPASS INFORMATION

# F

AUDI Q5 (8R) - FUSE 16



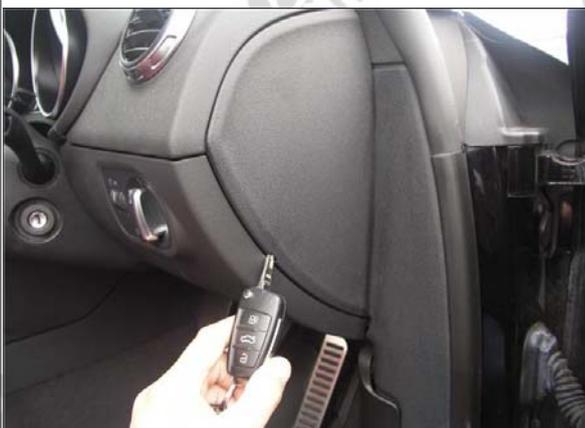
AUDI Q7 (4L)



FUSE 5 IN BLACK FUSE HOLDER

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AUDI TT (8J)



FUSE 12

# IGNITION BYPASS INFORMATION

# F

AUDI A4 (8K)



FUSE 15 &16

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[WWW.ADVANCED-DIAGNOSTICS.CO.UK](http://WWW.ADVANCED-DIAGNOSTICS.CO.UK)

[WWW.ADUSA.US](http://WWW.ADUSA.US)

# IGNITION BYPASS INFORMATION



## SEAT LEON (1P)



FUSE 6

WWW.ADUSA.US

## SEAT ALTEA (5P)



FUSE 9

DIAGNOSTICS.CO.UK

## SEAT ALHAMBRA (7N)



FUSE 1

# IGNITION BYPASS INFORMATION

# F

## 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

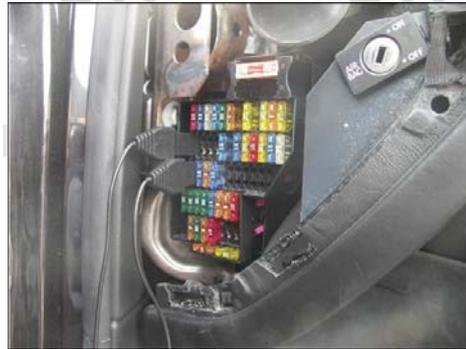
[WWW.ADVANCED-DIAGNOSTICS.CO.UK](http://WWW.ADVANCED-DIAGNOSTICS.CO.UK)

[WWW.ADUSA.US](http://WWW.ADUSA.US)

# IGNITION BYPASS INFORMATION

# F

## PORSCHE CAYENNE (9PA)



FUSE 26 & 36

## BENTLEY CONTINENTAL (3W3)



FUSE 54



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# VEHICLE IDENTIFICATION LABELS

# F



## UNDER THE REAR SEAT

AUDI A4 (8ED ESTATE)

ADVANCED DIAGNOSTICS.CO.UK



## REAR SIDE PANEL

SEAT ALHAMBRA (7M)  
VW SHARAN (7M)

ADVANCED DIAGNOSTICS.CO.UK



## ABOVE FUSE PANEL

VW CADDY (2K)

ADVANCED DIAGNOSTICS.CO.UK

# VEHICLE IDENTIFICATION LABELS

# F



## 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

# F



## ABOVE PEDALS

VW TRANSPORTER (7H)

AGNOSTICS.CO.UK



## UNDER DRIVERS SEAT

VW TRANSPORTER (7H)

AGNOSTICS.CO.UK

WWW.ADUSA.US

# VEHICLE IDENTIFICATION LABELS

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3237976 210 210

FAHRZG.-IDENT-NR.  
VEHICLE-IDENT-NR.

WV1ZZZ 2F Z 97003519

TYP/TYPE

2FL 1B5

CRAFTER 35 EKA

LR 80 TDI 6SG

MOTORKB./GETR.KB.  
ENG.CODE/TRANS.CODE

BJK- HQT

LACKNR./INNENAUSST.  
PAINTNO./INTERIOR

R90200000000 BY

AUSST./OPTIONS

BON CM1 GOK HR2 J1D D5L V0A

1AT 1G2 1MM 1NB 5RQ 5SJ 0E2

7WZ 8YC 8GG 8ZE 1P5 3R0

1BA 7GQ

SAMPLE LABEL

Vehicle data

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**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.

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[WWW.ADUSA.US](http://WWW.ADUSA.US)



## AD900Pro

Transponder Cloning

The most advanced key transponder cloning tool in the market - that reads, writes, copies, a wide range of automotive transponders world-wide. 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.