

Airbag

Control Module Coding

Select 15 (Airbag)

Coding -> Function 07

NOTE: Due to the great number of possible configurations (dependent on what equipment is installed in the car, and what region the car is operated in), please contact us directly (include part number, component info and index).

CAN-Gateway

Control Module Coding

Select 19 (CAN-Gateway)

Coding -> Function 07

+00002 - ABS installed

+00004 - Airbags installed

Central Electronics

Control Module Coding

Select 09 (Central Electronics)

Coding -> Function 07

00001 - Daytime Running Lights on (Scandinavian Countries)

00002 - Daytime Running Lights on (USA and Canada)

00003 - Daytime Running Lights off (Rest of World)

NOTE: USA and Canada DRL setting provides low beam headlights on, but not the instrument panel lighting or any other exterior lights normally used during darkness.

Comfort System

Control Module Coding

Select 46 (Comfort System)

Coding -> Function 07

00032 - Low variant with basic door locking

00040 - Low variant with servo assisted door locking

Control Module Adaptation

Select 46 (Comfort System)

Adaptation -> Function 10

-> Channel 001 (Door Unlocking)

0 – All door unlocking

1 – Selective door unlocking

2 – Both doors same side unlocking

-> Channel 002 (Auto-Lock)

The doors will lock automatically when the vehicle reaches a speed of 15 km/h or 10 mph (0 = off/1 = on).

-> Channel 003 (Auto-Unlock)

The doors will unlock automatically when the key is removed from the ignition switch (0 = off/1 = on).

-> Channel 004 (Unlocking Message - Kessy)

Return message when unlocking via Access/Start Authorization (Kessy).

0 - No return message

1 - Beep

2 - Blink

3 - Beep & Blink

-> Channel 005 (Unlocking Message - Remote)

Return message when unlocking via remote control.

0 - No return message

1 - Beep

2 - Blink

3 - Beep & Blink

-> Channel 006 (Unlocking Message - Key)

Return message when unlocking via key switch.

0 - No return message

1 - Beep

2 - Blink

3 - Beep & Blink

-> Channel 007 (Locking Message - Kessy)

Return message when locking via Access/Start Authorization (Kessy).

- 0 - No return message
- 1 - Beep
- 2 - Blink
- 3 - Beep & Blink

-> Channel 008 (Locking Message - Remote)

Return message when locking via remote control.

- 0 - No return message
- 1 - Beep
- 2 - Blink
- 3 - Beep & Blink

-> Channel 009 (Locking Message - Key)

Return message when locking via key switch.

- 0 - No return message
- 1 - Beep
- 2 - Blink
- 3 - Beep & Blink

-> Channel 010 (Active Message - Anti-Theft)

Return message when anti theft warning system is active.

- 0 - No return message
- 1 - Beep
- 2 - Blink
- 3 - Beep & Blink

-> Channel 011 (Country Setting)

Country setting for alarm horn.

- 1 - Rest of Europe
- 2 - Germany
- 3 - Great Britain

-> Channel 025 (Comfort Function)

This function activates/deactivates the comfort function via remote (0 = off/1 = on).

-> Channel 026 (Anti-Theft Delay)

Deactivation of the anti theft warning delay, when opening drivers door, before the anti theft warning system is being activated (1 = off/0 = on).

Control Head

Control Module Coding

Select 07 (Control Head)

Coding -> Function 07

?00xxx: *Climate Control/Control Head (rear)*

- +1 - Climate Control
- +2 - Control Head (rear)
- +4 - Byte Coding valid

x00?xx: *Seat Memory/TPMS/Aux. Heating*

- +1 - Seat Memory
- +2 - Tire Pressure Monitoring
- +4 - Auxiliary Heating

x00x?x: *TV-Tuner/Telephone/Testmode*

- +1 - TV-Tuner
- +2 - Telephone/Telematics
- +4 - Testmode

x00xx?: *Navigation/Voice/CD-Changer*

- +1 - Navigation
- +2 - Voice Activation
- +4 - CD-Changer

Engine Electronics

Control Module Security Access

Select 01 (Engine Electronics)

Security Access -> Function 16

ACC = Adaptive Cruise Control

CCS = Cruise Control System

ACC-Activation Code: **13647**

CCS-Activation Code: **11463**

ACC/CCS-Deactivation Code: **16167**

Level Control System

Control Module Basic Setting

- [Suspension Level Control Calibration](#)

Control Module Coding

**Select 17 (Instrument Cluster)
Coding -> Function 07**

15500 - Rest of World
15501 - USA

Control Module Security Access

**Select 34 (Level Control System)
Security Access -> Function 16**

*NOTE: This procedure is used to deactivate/activate the level control system.
If the Transport Mode is active the system raises above the normal level and there will be no compensations of the car's heights.*

Transport Mode Activation Code: **10273**
Transport Mode Deactivation Code: **41172**

Parking Aid

Control Module Adaptation

**Select 76 (Parking Aid)
Adaptation -> Function 10**

-> Channel 001 (Front Buzzer Volume)
Adaptation of the warning buzzer volume.
Range: 0 - 100 %

-> Channel 002 (Rear Buzzer Volume)
Adaptation of the warning buzzer volume.
Range: 0 - 100 %

-> Channel 003 (Shut-off speed)
Adaptation of the parking aid shut-off speed.
Range: 1 - 15
Standard value: 14

-> Channel 004 (Offset distance)
Additional distance (in cm) to be added to rear measurements to allow for the presence of a trailer hitch.
Range: 1 - 30 cm

Roof Electronics

Control Module Coding

Select 6E (Roof Electronics)

Coding -> Function 07

- +00000 - Double glazed glass (Standard)
- +00001 - Automatic Daytime Running Lights
- +00002 - Inside rear view mirror with position memory
- +00004 - Passenger Cabin Alarm monitoring
- +00008 - Electric Sunroof
- +00016 - Electric Sunroof with solar panels
- +00024 - Thermal protection glass
- +00032 - Full roof (i.e. no sunroof)

Steering Wheel Electronics

Control Module Coding

Select 16 (Steering Wheel Electronics)

Coding -> Function 07

ADR - Automatic Distance Regulation

CCS - Cruise Control System

00?xx: *Heated Steering Wheel*

- 0** - Heated Steering Wheel not installed
- 1** - Heated Steering Wheel installed
- 2** - Heated Steering Wheel installed (via MFS Button)

00x?x: *Multifunction Steering Wheel*

- 0** - Steering Wheel without Multifunction
- 1** - Multifunction Steering Wheel (High) with 6 Buttons (CCS)
- 2** - Multifunction Steering Wheel (High) with 6 Buttons (CCS & ADR)
- 3** - Multifunction Steering Wheel (Low) with 4 Buttons (CCS)

00xx?: *Steering Column Adjustment*

- 1** - Steering Column Adjustment not installed
- 2** - Steering Column Adjustment installed

Tire Pressure Monitoring

Control Module Coding

Select **65** (Tire Pressure Monitoring)

Coding -> Function **07**

?xxxx: Manufacturer

1 - Volkswagen

x?xxx: Factory Test Time

0 - Standard

xx?xx: Monitoring

2 - 5 wheels (with spare tire)

3 - 4 wheels (without spare tire)

xxx?x: Engine Type

0 - V6

3 - W8

4 - V10 TDI

8 - W12

xxxx?: Specified Pressure

4 - Standard

Suspension Level Control Calibration

Updated 16 Jan 2007

Ross-Tech is not responsible for any damage or problems that may result from following these instructions. They are to be used at your own risk. As always, you should refer to a [Factory Repair Manual](#) for your vehicle!

This procedure details how to lower/raise the zero position for the Level Control module in VW Phaeton (3D), VW Touareg (7L), Audi A6 (4F), Audi A8 (4E) and Audi Q7 (4L) vehicles.

This procedure does not apply to the *old* Audi A6 (C5 platform, 4B chassis) Allroad. For that vehicle, there is a [different procedure](#).

There are certain test conditions that must be met before doing this procedure:

- Transmission in park/neutral.

- Start the vehicle, keep the engine running and do not switch off the ignition.
- Doors have to stay closed, otherwise the system is not ready.

The default values:

Audi A6 (4F) (PR-1BK): 386 mm (front) and 384 mm (rear)
Audi A6 (4F) Allroad (PR-1BY): 388 mm (front) and 380 mm (rear)

Audi A8 (4E) standard suspension (PR-1BK): 416 mm (front) and 398 mm (rear)
Audi A8/S8 (4E) sport suspension (PR-2MA/2MB): 396 mm (front) and 378 mm (rear)

Audi Q7 (4L): 449 mm (front) and 465 mm (rear)

VW Phaeton (3D) RoW (Rest of World): 407 mm (front) and 401 mm (rear)
VW Phaeton (3D) NAR (North American Region): 417 mm (front) and 411 mm (rear)

VW Touareg (7L) standard: 497 mm (front) and 502 mm (rear)
VW Touareg (7L) offroad: 488 mm (front) and 498 mm (rear)

North American Phaeton owners: Please read a [very detailed alternate procedure here](#)

[Select]
[34 - Level Control]



[Security Access - 16]
 Enter 31564

[Do It!]

VAG-COM: Open Controller

VAG-COM
Open Controller

Comm Status
IC=1 TE=0 RE=0
Protocol: KWP2089 -

Controller Info

VAG Number: **7L6 907 553 B** Component: **LUFTFDR.-CDC- 3C1P1 3650**

Soft. Coding: **0025520** Shop #: **Imp: 123 WSC 12345**

Extra:

Extra: **Geraet 58363**

VAG-Com: Security Access

Most Controllers only allow one access attempt. If an incorrect access key is entered, you will have to leave the ignition ON for at least ten minutes before trying again. Refer to Service Manual for a valid access key.

Enter security access key (0 - 99999):

[Adaption - 10]

Channel 01 (front left)

[Read]

Wait until the car goes into 2 different levels.

VAG-COM: Open Controller

Comm Status
IC=1 TE=0 RE=0
Protocol: KWP2089 /

VAG-COM

Open Controller

Controller Info
VAG Number: **7L6 907 553 B** Component: **LUFTFDR.-CDC- 3C1P1 3650**

VAG-COM: Adaptation

Wait - **Low Level** **Start driving**

Channel Number: Up Dn Read Stored Value:

New Value: Up Dn Test Test Value:

Save

Done, Go Back

VAG-COM: Open Controller

Comm Status
IC=1 TE=0 RE=0
Protocol: KWP2089 -

VAG-COM

Open Controller

Controller Info
VAG Number: **7L6 907 553 B** Component: **LUFTFDR.-CDC- 3C1P1 3650**

VAG-COM: Adaptation

Wait - **Normal Level** **Start driving**

Channel Number: Up Dn Read Stored Value:

New Value: Up Dn Test Test Value:

Save

Done, Go Back

Measure the heights from wheel center to the lower edge of the fender (see [comments](#)).
Enter "new value" in Millimeters into Channel 01.

[Test]
[Save]

The screenshot shows the VAG-COM: Open Controller interface. At the top, it displays 'Comm Status' with 'IC=1 TE=0 RE=0' and 'Protocol: KWP2089 -'. The 'VAG-COM Open Controller' logo is prominent. Below, 'Controller Info' shows 'VAG Number: 7L6 907 553 B' and 'Component: LUFTFDR.-CDC- 3C1P1 3650'. The main section is titled 'VAG-COM: Adaptation' and features a 'Value' field set to '1000' (Bin. Bits) and 'Wheel: F/Left'. The 'Channel Number' is '01', and the 'New Value' is '497'. The 'Stored Value' is '497'. Navigation buttons include 'Up', 'Dn', 'Read', 'Test', 'Save', and 'Done, Go Back'.

Channel 02 (front right)

[Read]

Measure the heights from wheel center to the lower edge of the fender (see [comments](#)).
Enter "new value" in Millimeters into Channel 02.

[Test]
[Save]

VAG-COM: Open Controller

Comm Status
 IC=1 TE=0 RE=0
 Protocol: KWP2089 |

VAG-COM
 Open Controller

Controller Info
 VAG Number: **7L6 907 553 B** Component: **LUFTFDR.-CDC- 3C1P1 3650**

VAG-COM: Adaptation

Value **Wheel: F/Right** **Enter** **1000**
 Bin. Bits

Channel Number: Stored Value:

New Value: Test Value:

Channel 03 (rear left)

[Read]

Measure the heights from wheel center to the lower edge of the fender (see [comments](#)).
 Enter "new value" in Millimeters into Channel 03.

[Test]

[Save]

VAG-GSM VAG-COM: Open Controller

Comm Status
 IC=1 TE=0 RE=0
 Protocol: KWP2089 \

VAG-COM
 Open Controller

Controller Info
 VAG Number: **7L6 907 553 B** Component: **LUFTFDR.-CDC- 3C1P1 3650**

VAG-COM: Adaptation

Value	Wheel: R/Left	Enter	1100 Bin. Bits
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Channel Number: Stored Value:

New Value: Test Value:

Channel 04 (rear right)

[Read]

Measure the heights from wheel center to the lower edge of the fender (see [comments](#)).
 Enter "new value" in Millimeters into Channel 04.

[Test]

[Save]

VAG-COM: Open Controller

Comm Status
IC=1 TE=0 RE=0
Protocol: KWP2089 |

VAG-COM

Open Controller

Controller Info
VAG Number: **7L6 907 553 B** Component: **LUFTFDR.-CDC- 3C1P1 3650**

VAG-COM: Adaptation

Value **Wheel: R/Right** **Enter** **1110**
Bin. Bits

Channel Number: Stored Value:

New Value: Test Value:

Channel 05 (confirmation)

[Read]

If all measured values are correct, enter "new value" of 1.

[Test]

[Save]

VAG-COM: Open Controller

Comm Status
IC=1 TE=0 RE=0
Protocol: KWP2089 ✓

VAG-COM
Open Controller

Controller Info
VAG Number: **7L6 907 553 B** Component: **LUFTFDR.-CDC- 3C1P1 3650**

VAG-COM: Adaptation

Value	Valid	N/A	N/A
Channel Number: <input type="text" value="05"/>	<input type="button" value="Up"/> <input type="button" value="Dn"/>	<input type="button" value="Read"/>	Stored Value: <input type="text" value="0"/>
New Value: <input type="text" value="1"/>	<input type="button" value="Up"/> <input type="button" value="Dn"/>	<input type="button" value="Test"/>	Test Value: <input type="text" value="1"/>
<input type="button" value="Save"/>			
<input type="button" value="Done, Go Back"/>			

Click the **[Done, Go Back]** button and you're all set.

Check for fault codes, if all procedures went fine there should be none.

Comments:

The height of each wheel is measured between the center of the wheel (the space in between the V and the W) and the lower edge of the fender. All measurements have to be done in Millimeters (mm).



If a Channel is not accepting a value, put the "new value" in again and click **[Test]** and **[Save]** again instead of starting the whole process from the beginning.

In some cases the controller says "invalid value", start "rocking" the car a little bit, this should solve problem.