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[Suspension Level Control Calibration](#)

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]

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**

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

Extra:
Extra: **Geraet 58363**

Basic Functions
These are "Safe"

Advanced Functions
Refer to Service Manual !

Close Controller, Go Back - 06

[Security Access - 16]

Enter 31564

[Do It!]

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**

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):

Do it! Cancel

[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: 01 Up Dn Read Stored Value: 497

New Value: 497 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: 01 Up Dn Read Stored Value: 497

New Value: 497 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]

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/Left** Enter: **1000**
Bin. Bits

Channel Number: **01** Up Dn Read Stored Value: **497**

New Value: **497** Up Dn Test Test Value:

Save

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: **02** Up Dn Read Stored Value: **497**

New Value: **497** Up Dn Test Test Value:

Save

Done, Go Back

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]

The screenshot shows the VAG-COM: Open Controller software interface. The main window has a title bar "VAG-COM: Open Controller". Below the title bar, there is a "Comm Status" section with "IC=1 TE=0 RE=0" and "Protocol: KWP2089". To the right of this is the "VAG-COM Open Controller" logo. Below the status section is the "Controller Info" section with "VAG Number: 7L6 907 553 B" and "Component: LUFTFDR.-CDC- 3C1P1 3650". The "VAG-COM: Adaptation" window is open, showing a table with columns "Value", "Wheel: R/Left", "Enter", and "1100". Below the table, there are fields for "Channel Number: 03", "New Value: 502", "Stored Value: 502", and "Test Value:". There are also buttons for "Up", "Dn", "Read", "Test", "Save", and "Done, Go Back".

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]

The screenshot shows the VAG-COM: Open Controller software interface, similar to the previous one, but with the "Channel Number" set to 04. The "Wheel" is now "R/Right". The "Value" field is still 502, and the "Stored Value" is still 502. The "Test Value" field is empty. The "Done, Go Back" button is at the bottom.

Channel 05 (confirmation)

[Read]

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

[Test]

[Save]

The screenshot shows two overlapping windows from the VAG-COM software. The top window, titled "VAG-COM: Open Controller", displays communication status (IC=1, TE=0, RE=0, Protocol: KWP2089) and controller information (VAG Number: 7L6 907 553 B, Component: LUFTFDR.-CDC- 3C1P1 3650). The bottom window, titled "VAG-COM: Adaptation", shows a table with columns "Value", "Valid", and "N/A". Below the table, there are input fields for "Channel Number" (05) and "New Value" (1), along with buttons for "Up", "Dn", "Read", "Test", "Save", and "Done, Go Back". The "Stored Value" is 0 and the "Test Value" is 1.

Value	Valid	N/A

Channel Number: 05 Up Dn Read Stored Value: 0

New Value: 1 Up Dn Test Test Value: 1

Save

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.

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