



- The rear bumper cover was damaged by a parking block, for example.
- The rear bumper cover was removed and installed.
- "No or incorrect basic setting/adaptation" is stored in the DTC memory.

Preparing for Calibration

1 - Calibration Tool - Spacing Laser - VAS6350/2-

- For distance measurement
- Usage information. Refer to the Calibration Tool - VAS6350- Owner's Manual.

2 - Calibration Unit - VAS6350A-

3 - Level

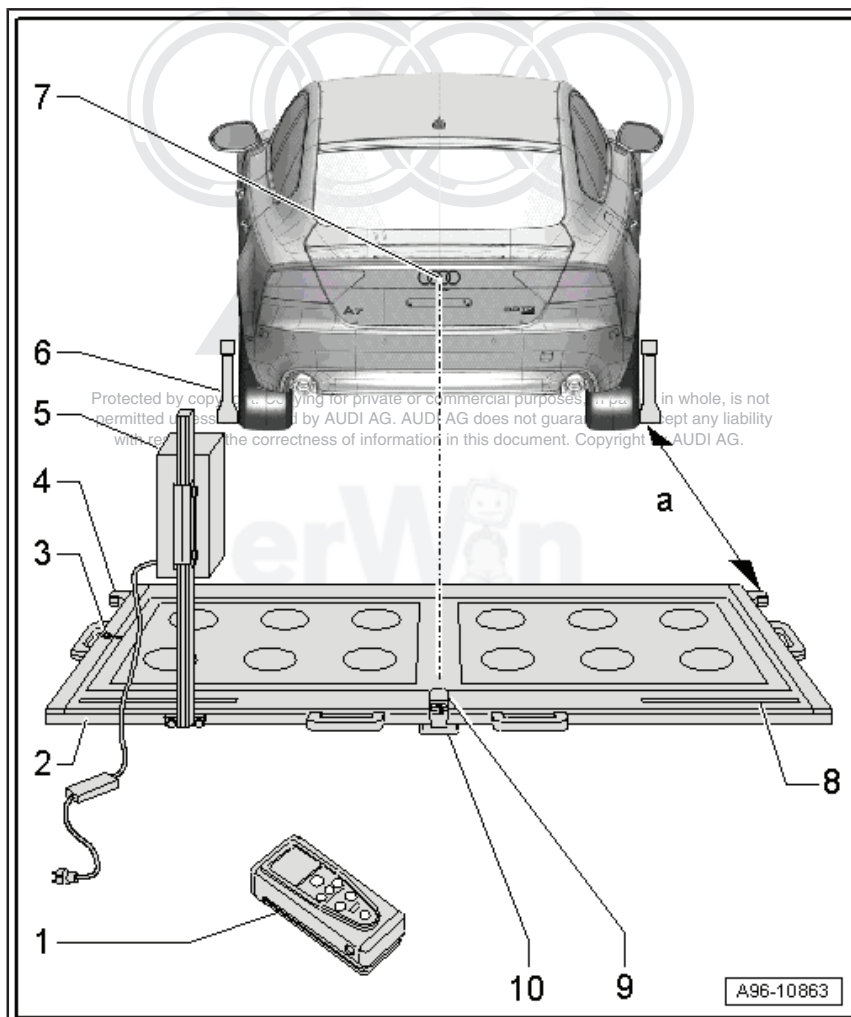
- On the Calibration Unit - VAS6350A-
- To check the horizontal position of the Calibration Unit - VAS6350A-

4 - Catch Bracket

- To mount the Calibration Tool - Spacing Laser - VAS6350/2- for the distance measurement
- Distance to the Calibration Tool - Wheel Center Mountings - VAS6350/1- on the rear wheels: dimension -a- = 1700 ± 2 mm

5 - Calibration Tool - Lane Change Calibration Tool - VAS6350/4-

- Is moved from one side of the measuring field to the other during calibration
- When installed correctly, the vehicle electrical system voltage line must be connected at lower left of the calibration device (as seen in direction of travel)



6 - Calibration Tool - Wheel Center Mountings - VAS6350/1-

- With wheel bolt adapter and measuring paddle

7 - Brand Emblem

- The laser point is aligned to the center of the brand emblem

8 - Measuring Scale

- For positioning the Calibration Tool - Lane Change Calibration Tool - VAS6350/4-

9 - Calibration Tool - Linear Laser - VAS6350/3-

- With "laser protective eyewear"
- On the Calibration Unit - VAS6350A-
- Switching on and off. Refer to Calibration Tool - VAS6350- Owner's Manual.



10 - Plastic Foot

- ❑ Quantity: 3
- ❑ Can be adjusted when setting the horizontal position of the Calibration Unit - VAS6350A-

Preliminary Work

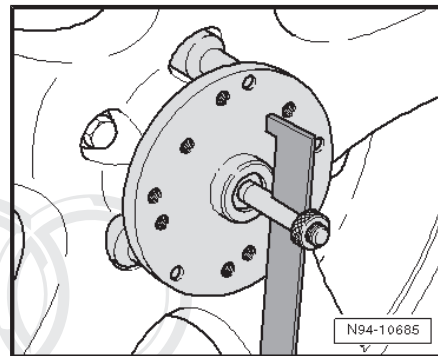
- Move the vehicle onto a solid, flat surface.
- Apply the parking brake - the vehicle must not move during the measurement.
- Place the front wheels in a straight-ahead position - steering wheel in 0 position.
- Connect the Vehicle Diagnostic Tester.



Note

If a malfunction message appears in the display, refer to the Vehicle Diagnostic Tester Operating Instructions.

- Switch the ignition on.
- Remove the label with the metal foil from the bumper cover, if necessary.
- Secure three suitable wheel bolt adapters for the wheel bolts on each -VAS6350/1- .
- Insert the measuring paddle at both -VAS6350/1- and secure with the locking nut.
- Place the -VAS6350/1- onto the wheel bolts on both rear wheels.
- The wheel center mounting rotation center must be in the wheel rotation center.

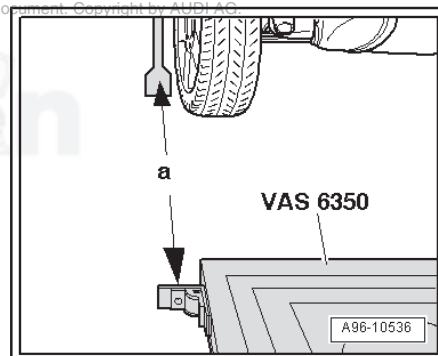


Note

Place the -VAS6350/1- on the wheels so that the "anti-theft wheel bolts" are not connected to the wheel center mounting.

- Adjust the measuring paddle with aid of lock nuts so that they move freely just above the floor.
- The measuring paddles must move easily.
- The measuring paddles must be vertical.
- Position the -VAS6350A- at distance -a- to the rear wheels.
- Dimension -a- = 1,700 mm

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- Switch on the -VAS6350/2A- with the  button.

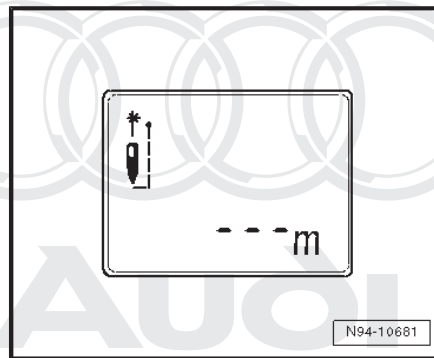
Display on the -VAS6350/2A- :

- “- - - m”



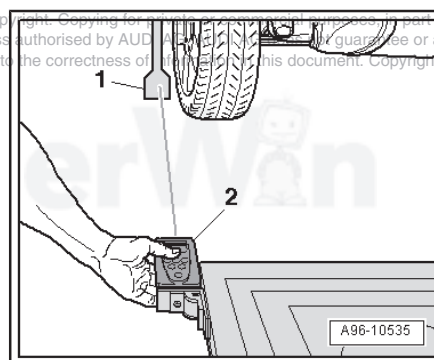
Note

The laser is switched on at same time.



- For distance measurement, hold the -VAS6350/2- -item 2- flush to the left catch bracket as shown.
- The Calibration Tool - Spacing Laser -VAS6350/2A- must lie firmly against the catch bracket.
- Make sure the “laser beam” for the distance measurement contacts the enlarged lower part on the paddle -1-.

If this is not the case, the measure paddle height must be corrected using locking nuts on -VAS6350/1- .





- Briefly press the **[ON]** button for distance measurement.

Display on the -VAS6350/2A- :

- “1,700 m” (specified value: 1700 ± 2 mm).
- Repeat the measuring procedure from the right stop bracket to the right rear wheel.
- The distance value must be the same on both sides.

If both measured values are not the same, adjust the -VAS6350A- accordingly.

Calibrating Procedure

The Vehicle Diagnostic Tester is connected.

- Select the **[Diagnostic]** mode and start the diagnosis.
- Select the **[Test plan]** tab.
- Select the **[Select individual test]** button and select the following tree structure consecutively:
 - ◆ Body
 - ◆ Electrical system
 - ◆ 01 - OBD-capable systems
 - ◆ 3C - Lane Change Assistance Control Module - J769
 - ◆ 3C - Lane change assistance control module, functions
 - ◆ 3C - Calibration

From here, the Vehicle Diagnostic Tester advances the calibration procedure forward.



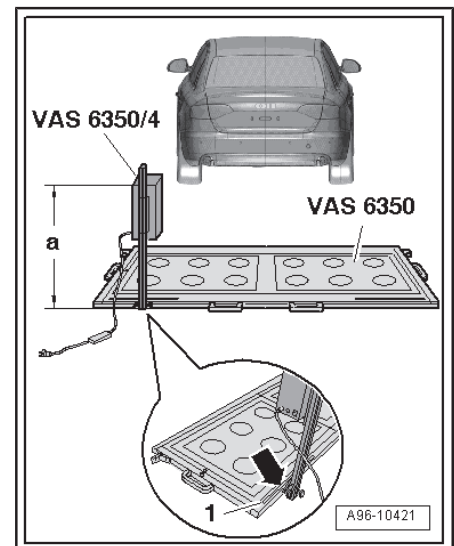
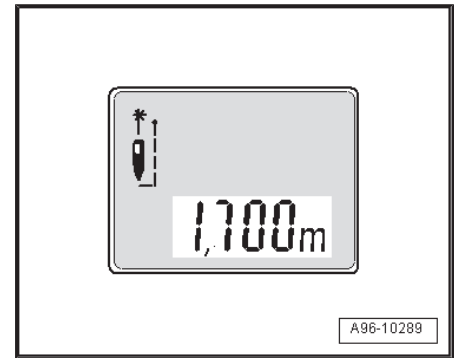
Note

- ◆ *The following information clarifies which version of the lane change assistance is installed (for example SWA1.7).*
- ◆ *This information for adjusting the calibration device is important for later steps in the procedure to avoid malfunctions.*

- Secure the -VAS6350/4- to the -VAS6350A- mount on the rear left.

When installed correctly, the vehicle electrical system voltage wire must be connected at the bottom left of the calibration device (as seen in direction of travel).

Dimension -a- is measured from the upper edge of the calibration device to the floor.



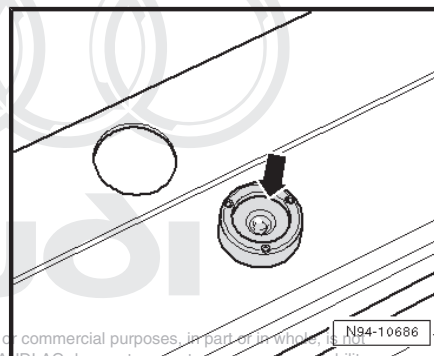


Model		A7 Sportback (2K1/2K2)	A7 Sportback S line (2K7/2K8) S7 Sportback (2K3/2K4)	RS 7 Sportback (VJ3/ VJ4)
Adjustment dimension height in mm dimension -a-	SWA 1.5	830	830	830
	SWA 1.7	830	830	830
	SWA 2.0	801	796	837

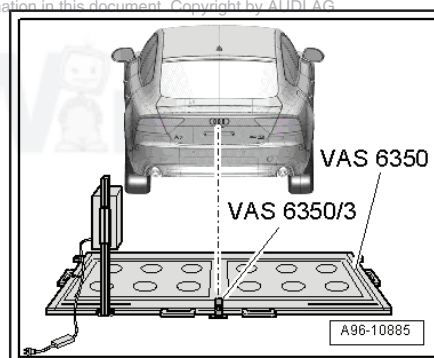
- The indicator on the base of the -VAS6350/4- must align with adjustment dimension on the measuring scale -1- on measuring field -arrow-.

Model		A7 Sportback (2K1/2K2)	A7 Sportback S line (2K7/2K8) S7 Sportback (2K3/2K4)	RS 7 Sportback (VJ3/ VJ4)
Left adjustment dimension read in mm on the measuring scale-1-	SWA 1.5	790	790	790
	SWA 1.7	790	790	790
	SWA 2.0	679	753	626

- Connect the -VAS6350/4- to the vehicle electrical system voltage.
- Bring the -VAS6350A- into a horizontal position by turning the plastic feet.
- Observe the bubble level (sight glass) on the -VAS6350A- -arrow-.



- Turn on the -VAS6350/3A- on the -VAS6350A- .
- Wear "laser protective eyewear".
- Align the -VAS6350A- so that the -VAS6350/3- strikes the center of the brand emblem on the rear lid.



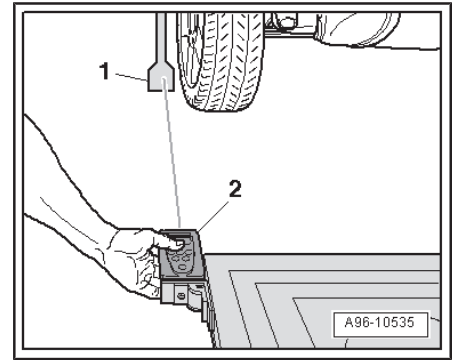


- Check the distance on the left and right sides between the catch brackets of the -VAS6350A- and the measuring paddles -1- on wheel mountings again.
- Specified value: 1700 ± 2 mm

Calibration Procedure

The following should not occur during the calibration procedure:

- No metal reflectors may be located within a 2 m radius of the calibration device (meaning tool carts, metal cabinets).
- Vehicle doors must not be opened or closed.
- **People must not sit in the vehicle.**
- People must not go between the vehicle and the -VAS6350/4-.



Procedure

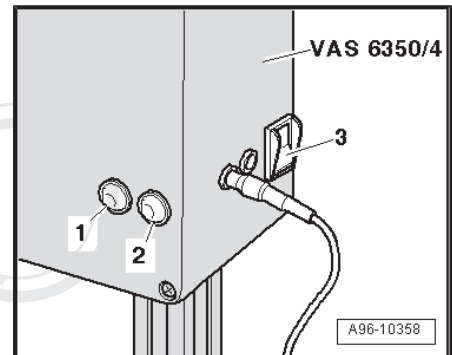
- Turn on the -VAS6350/4- at the power switch -3-.
- The green LED -1- must turn on.



Note

If the red LED -2- comes on: Check the -VAS6350/4-.

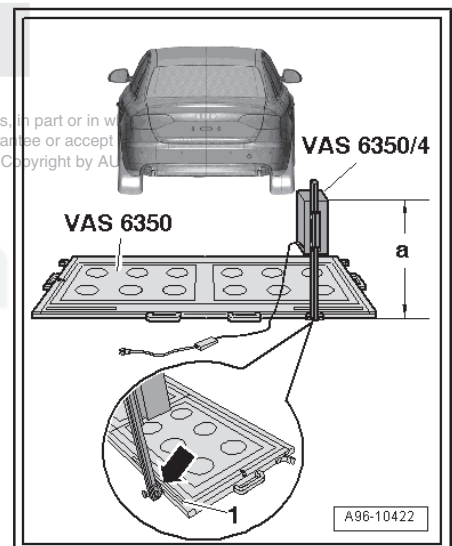
- Follow the instructions in the vehicle diagnostic tester display.



During the program sequence, there is a prompt to switch the -VAS6350/4- from the left to the right side of the -VAS6350-.

- Turn off the -VAS6350/4- and reposition the calibration tool.
- When installed correctly, the vehicle electrical system voltage wire must be connected at the bottom left of the calibration device (as seen in direction of travel).

Dimension -a- is measured from the upper edge of the calibration device to the floor.



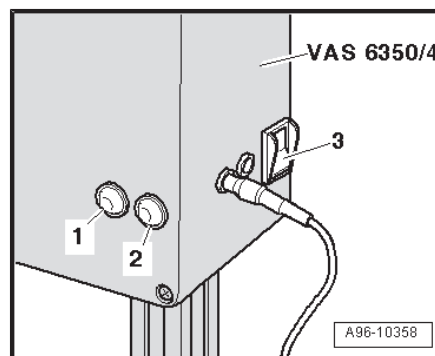
Model		A7 Sportback (2K1/2K2)	A7 Sportback S line (2K7/2K8) S7 Sportback (2K3/2K4)	RS 7 Sportback (VJ3/ VJ4)
Adjustment dimension height in mm dimension -a-	SWA 1.5	830	830	830
	SWA 1.7	830	830	830
	SWA 2.0	801	796	837

- The indicator on the base of the -VAS6350/4- must align with adjustment dimension on the measuring scale -1- on measuring field -arrow-.



Model		A7 Sportback (2K1/2K2)	A7 Sportback S line (2K7/2K8) S7 Sportback (2K3/2K4)	RS 7 Sportback (VJ3/ VJ4)
Right adjustment di- mension read in mm on the measuring scale-1-	SWA 1.5	790	790	790
	SWA 1.7	790	790	790
	SWA 2.0	679	753	626

- Turn on the -VAS6350/4- at the power switch -3-.
- The green LED -1- must turn on.
- Follow the instructions in the vehicle diagnostic tester display.
- After calibrating the lane change assistance successfully, end "calibration", switch off the ignition and disconnect the diagnostic connector.



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