

Operating instructions

Electronic steering wheel balance Inclinometer

Item No. 913 009 097



(Translated from original operating instructions)

GEB 001 307

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Subject to technical modifications.

Version 1.0 / 2025

Figures: **HAWEKA GmbH** / 30938 Burgwedel

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1. User information



- Use this measuring device with care.
- Before working with the device, carefully and completely read the User Instructions.



- Protect the device from moisture.
- Care should be taken that the storage location is dry and dust-free.



- Used batteries have to be disposed of into special recycling containers.



- Magnetic fields can impact or destroy electronic devices.
- Keep the magnetic adapter away from all devices which may be damaged by magnetic fields.



Check the inclinometer before use!
(s. point 6.1 p. 6)

2. Product description

2.1 Intended use

The inclinometer, in connection with the inclinometer bracket, forms the electronic steering wheel balance and is only used for the recording of angle values in the horizontal plane. The electronic steering wheel balance is used for correct alignment of the steering wheel (the straight-ahead position) during a complete wheel alignment.

2.2 Technical data of the inclinometer

Measuring range:	+/- 45° to the horizontal
Accuracy:	0.1° in the range between 0° and +/- 45°
Reproducibility:	± 0.1°
Operating temperature range	0 °C – 50 °C
Electrical power supply:	3 x 1.5 Volt AA battery / 20 hr. service life during normal operation at approx. 50% display illumination
Bluetooth:	5.2 low energy connectivity
Weight:	550 grams (without adapter)

3. Description of device

ON/OFF button:

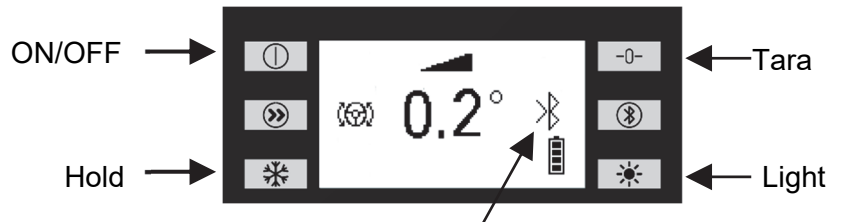
Keep the **ON/OFF button** pressed for approx. 2 seconds to switch on or off.



The inclinometer switches off automatically after 10 minutes of inactivity.

Steering wheel live measurement

As soon as the inclinometer is switched on, the **steering wheel live measurement** is active.



Bluetooth connection

The **Bluetooth symbol** is only shown in the display when a Bluetooth coupling was successful with another device (e.g. a wheel alignment system), and the measurement values are transferred every 5 sec. (Bluetooth device name: *Inclinometer*)

Hold button

Temporary “Freezing” of the display screen.

By pressing the **HOLD button**, the geometric angle is shown in the display.

The active hold status is displayed by a snowflake in the display.

The value remains in the display until the **HOLD button** is pressed again.

Tare button

The **Tare button** can be used to specify a reference angle. You can determine any angle from which you want to take a measurement as 0.0 reference angle.

Place the inclinometer on the reference surface, and then press the **Tare button** (the display shows **-0-** as a note).

The normal mode is restored by pressing the **Tare button** again.

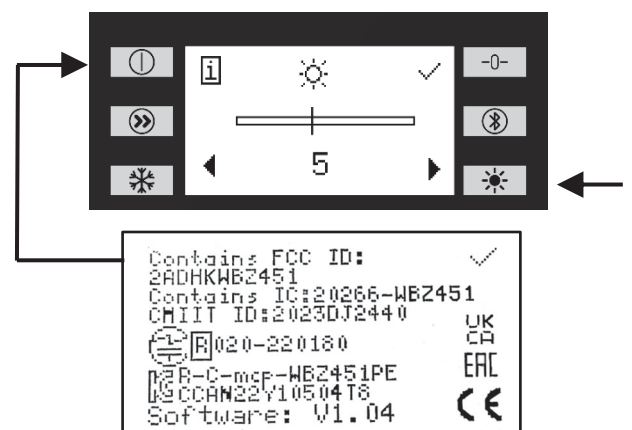
Light button

The display illumination is switched on and off with the **Light button**.

With a **long press of the Light button**, the brightness can be adjusted with the Hold and the Light button.

The setting is saved with the Tare button.

In this mode, information on the device compliance and software version can be requested by pressing the ON/OFF button.



4. The steering wheel balance

The inclinometer, in connection with the bracket, forms the electronic steering wheel balance.

Observe the correct order -> 1 -> 2 for mounting and dismounting.

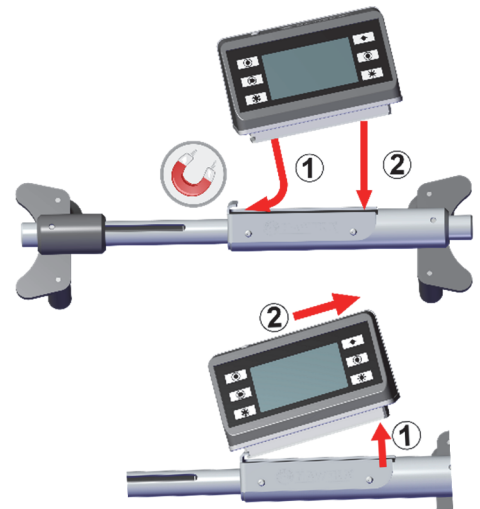
The steering wheel balance is used in the upper area of the steering wheel rim.

Once the steering wheel balance is mounted and the inclinometer is switched on, the inclination of the steering wheel can be determined immediately.

Steering wheel live measurement



If a Bluetooth connection with a wheel alignment system is present, the Bluetooth symbol is shown in the display and the measurement values are transferred automatically to the system every 5 seconds.



5. Maintenance and care

The inclinometer is maintenance-free. If required, clean the device with a soft, lint-free cloth.



Do not use any solvents for cleaning the inclinometer!

5.1 Replacing the battery

The service life closely depends on the display illumination. During normal operation, the service life is approx. 20 hours at 50% display illumination.

100 %  → 0 %

3 commercially available 1.5 V type AA batteries are required. To replace them, open the housing cover at the rear of the device.



Used batteries should not be disposed of with the residual waste. They are to be disposed of into special recycling containers!



6. Calibration of the inclinometer

Press the Tare button and hold it for approx. 3 seconds until the calibration setting is shown in the display. Press the Tare button again to stop the calibration process. Calibration occurs in 4 steps.



1

Place the device on a clean, horizontal plane with a max. deviation up to 10°. The front of the device faces forward. Press the **Bluetooth button**.



wait for approx. 5 sec.



2

Rotate the device by 180°, so that you now see the rear of the device. Play close attention that the device is positioned in the same place! Press the **Bluetooth button**.



wait for approx. 5 sec.



3

Now place the device onto the short right side. The device faces forward. You look vertically onto the edge of the housing. Press the **Bluetooth button**.



wait for approx. 5 sec.



4

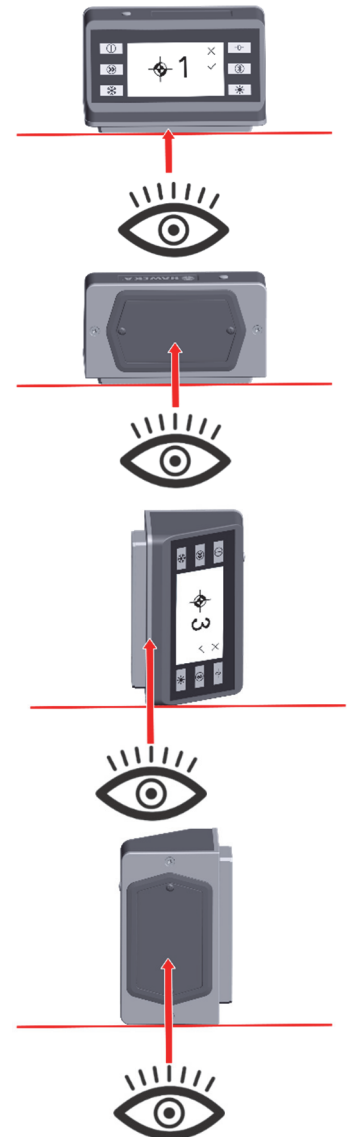
Rotate the device by 180° again, so that you now look vertically onto the rear of the device. Make sure the contact is in the same position. Press the **Bluetooth button**.



wait for approx. 5 sec.



Calibration is complete when there is an OK tick in the display. The device automatically switches back to the measurement recording.



6.1 Checking the inclinometer



The measuring accuracy must be checked once calibration is complete, but in any case if the device fell down or if a temperature difference since the last check is larger than 5 °C.

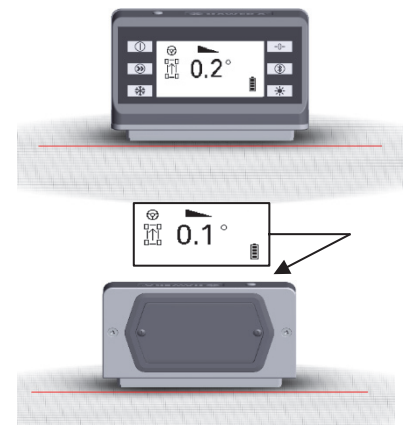
Place the device on a clean, horizontal plane, e.g. on a tabletop. Make a note of the value displayed.

Turn the device by 180°. Pay close attention that the device is positioned in the same place and make a note of the value.



If the measured values deviate by more than 0.2° from each other, repeat calibration.

If a deviation is found again that is too high, please contact your sales partner.



7. EU Declaration of Conformity

The manufacturer:

HAWEKA GmbH
Kokenhorststrasse 4
D-30938 Burgwedel

hereby declares that the below-mentioned product

Electronic steering wheel balance / inclinometer

complies with the following directives or standards and regulations of the European Union respectively.

RED Directive	2014/53/EU
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Battery Directive (EU BattVO)	2023/1542/EU

	Applicable European standards:
Standard for radio equipment	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.3.2 (2023-01)
Interference immunity and interference emission	DIN EN 55035:2018-04 DIN EN 55032:2022-08

Product modifications which affect the technical data provided in the Operating Instructions and the intended use invalidate this Declaration of Conformity!

Burgwedel, 14/02/2025



CEO
Dirk Warkotsch


(Signature)



HAWEKA GmbH

Kokenhorststr. 4 ♦ 30938 Burgwedel / Germany

☎ 05139-8996-0

www.haweke.com ♦ Info@haweke.com