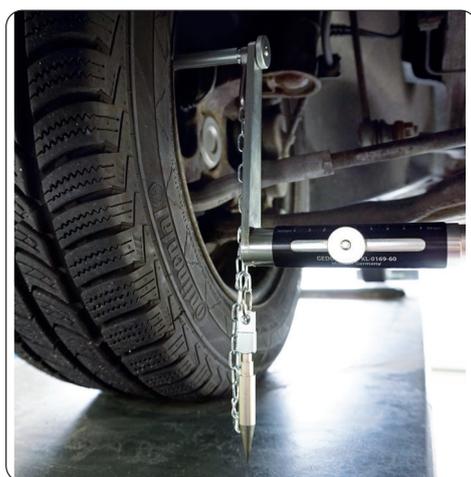




## KL-0169-60 / -61 Toe Measuring Gauge



**Product information** EN  
 ⚠ Read and understand before use!



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## Product description

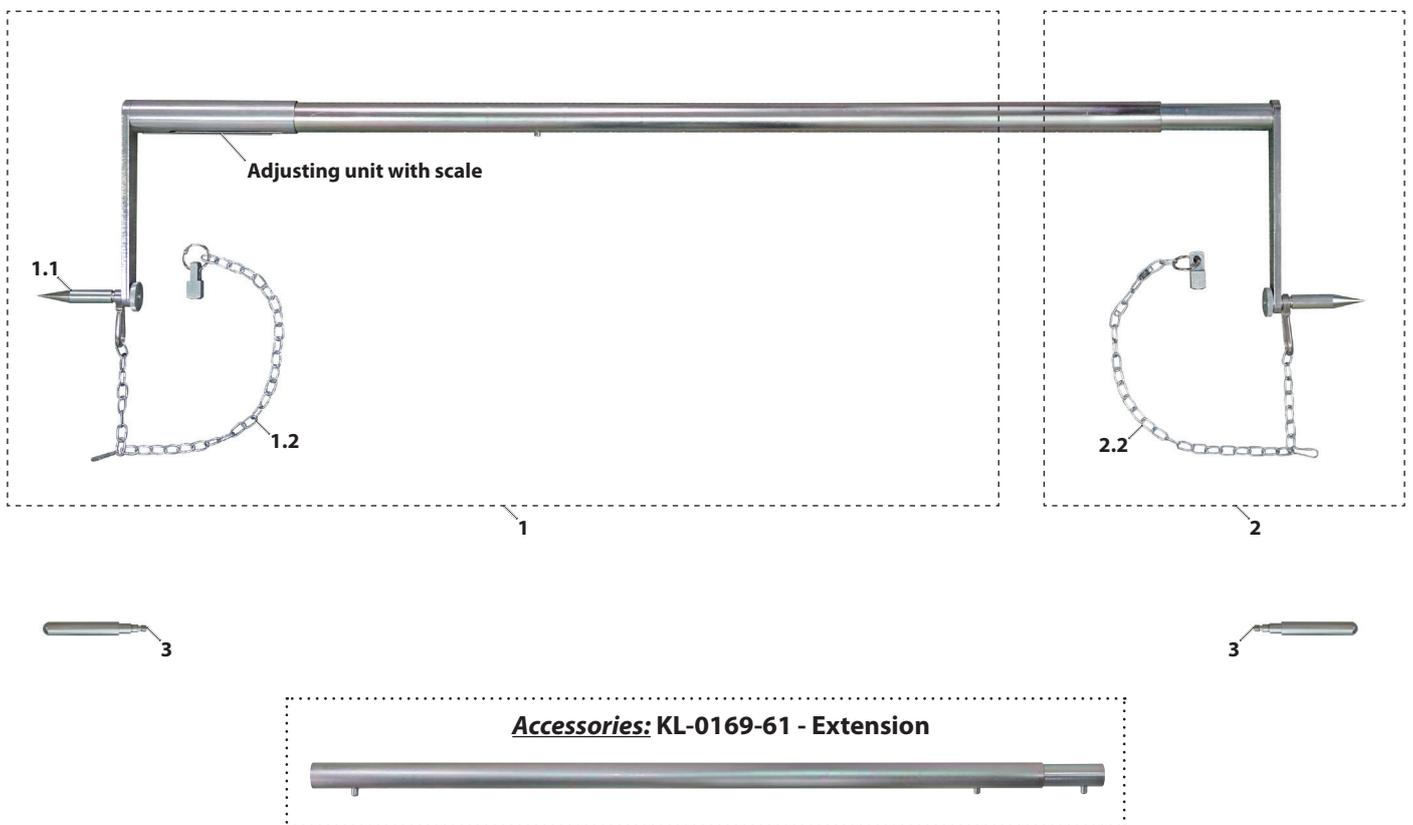
### KL-0169-60 - Toe measuring gauge

Universally suitable for cars, commercial vehicles, vans, and agricultural machinery, etc.

Enables quick and easy toe difference measurement on the inner rim flange or the tyre.

The measuring range is easily adjustable with the telescopic extension from 950 to a maximum of 1500mm, and, in combination with the extension **KL-0169-61 (accessory)** to max. 2150mm.

Easily legible toe difference scale from 0 to 40mm.



### Scope of delivery/spare parts:

KL-0169-60 - Toe measuring gauge			
Item	Part no.	Description	Qty
<b>1</b>	<b>KL-0169-601</b>	<b>Inner tube with adjusting unit</b>	<b>1</b>
1.1	KL-0169-6015	Thrust peak	1
1.2	KL-0169-6016	Levelling chain	1
<b>2</b>	<b>KL-0169-602</b>	<b>Outer tube with adjusting unit</b>	<b>1</b>
2.1	KL-0169-6015	Pressure peak	1
2.2	KL-0169-6016	Levelling chain	1
3	KL-0169-603	Thrust piece, round	2

### Specifications:

Track difference scale:..... 0 to 40mm

Measuring range: ..... 950 - 1500mm

Measuring range with **KL-0169-61**:..... 2150mm maximum

### Accessories:

#### KL-0169-61 - Extension

To extend the measuring range of the toe measuring gauge **KL-0169-60** from **1500mm** to a **maximum of 2150mm**.

**Fig. 1:** Mounting the thrust peaks or thrust pieces.

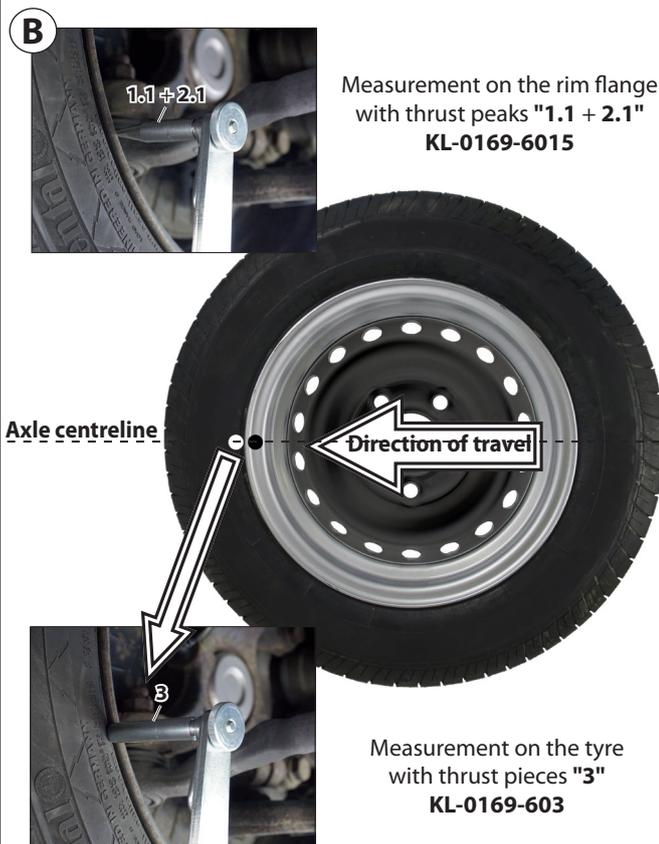
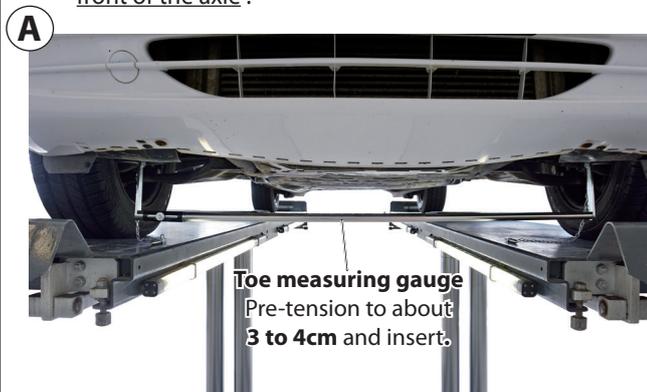
**A** When measuring on the **rim flange**, use thrust peaks - **KL-0169-6015**.



**B** When measuring on the **tyre**, use thrust pieces - **KL-0169-603**.



**Fig. 2:** Placing the toe measuring gauge between the wheels in front of the axle .



### ⚠ Regulations and tips

- When working with the toe measuring gauge, the vehicle **must be** parked safely on a level surface and be secured against rolling away.
- Before using, visually check that the tool is not damaged.
- Only the data specified by the vehicle manufacturer apply for any work on the vehicle.
- All given vehicle-specific data is subject to change.
- To ensure the gauge's ease of motion, always keep moving parts clean, especially the "adjusting unit with scale" and, if necessary, lubricate with molybdenum disulphide paste for example **KL-0014-0030** (Accessories / see catalogue)!

### Typical application

This typical application describes the track difference measurement on the inner rim flange or the tyre.

1. Park the vehicle safely on a level surface and secure it against rolling away. Set the front wheels to straight-ahead drive.

Make sure that the tyres are inflated evenly!

**Note:** For correct track measurement, axle parts and joints on the vehicle must not have any clearance.

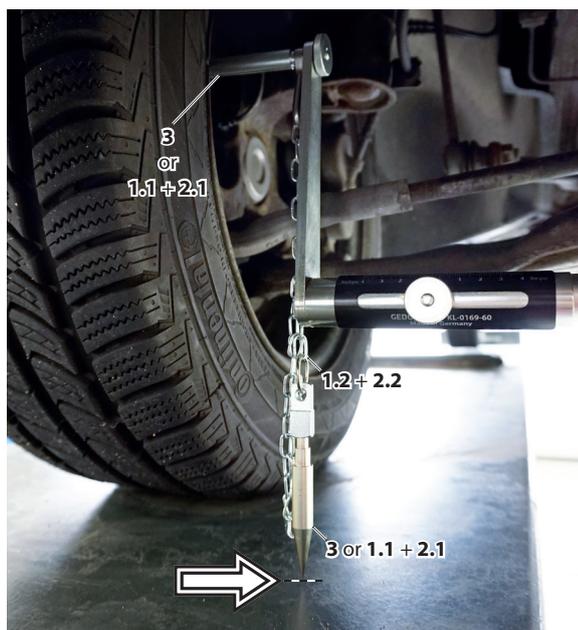
2. The track measurement with the toe measuring gauge can be carried out either on the **rim flange** or the **tyre**.

When measuring on the rim flange, take the thrust peaks "1.1 + 2.1" (**Fig. 1 A**) or, if measured on the tyre, select the thrust pieces "3" (**Fig. 1 B**), and mount them on the track measuring device.

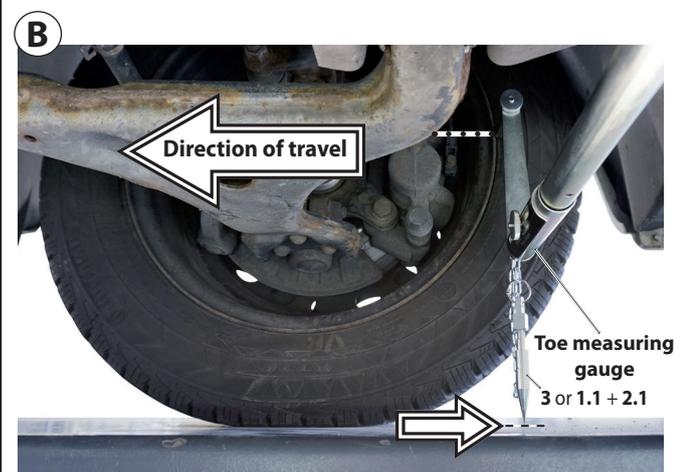
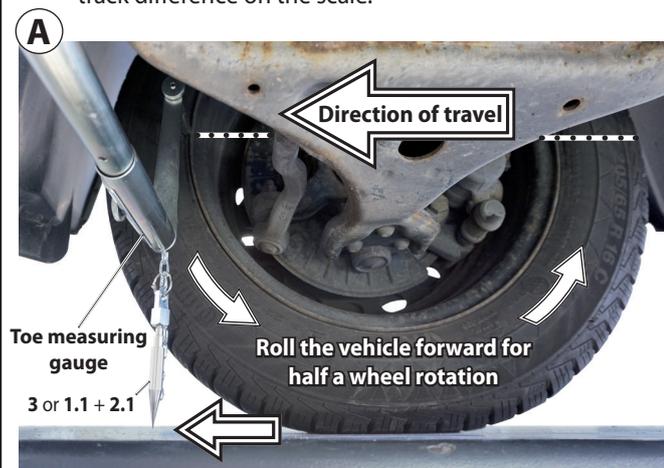
3. Adjust the required length on the toe measuring gauge so that it can be placed between the wheels with a **pre-tension of about 3 to 4cm**.

4. Place the toe measuring gauge in driving direction between the wheels in **front of the axle**. (**Fig. 2 A + B**)  
Make sure that the gauge is positioned approximately in the middle of the axle, depending on the space available. (**Fig. 2 B**)

**Fig. 3:** Adjust the height of the chains and set scale to "0".



**Fig. 4:** Roll the vehicle forward half a wheel rotation and read the track difference on the scale.



5. Screw the unused thrust peaks "1.1 + 2.1" or thrust pieces "3" to the levelling chains "1.2 + 2.2" on the right and left of the toe measuring gauge. (Fig. 3)

6. Adjust the levelling chains "1.2 + 2.2" on the toe measuring gauge so that the mounted thrust peaks "1.1 + 2.1" or thrust pieces "3" just touch the ground. (Fig. 3)

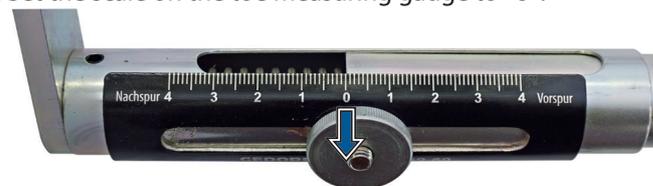
**Note:** This must be done to determine the measuring height on the wheel in front of the axle (Fig. 4 A). After the vehicle has been rolled half a wheel rotation forwards, take up this measuring height again behind the axle (Fig. 4 B).

### CAUTION

The toe measuring gauge can be damaged and this in turn can lead to incorrect measurements on the vehicle.

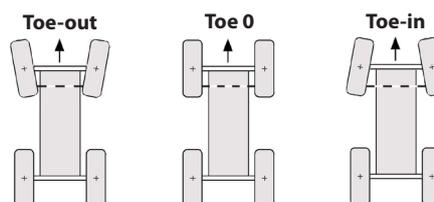
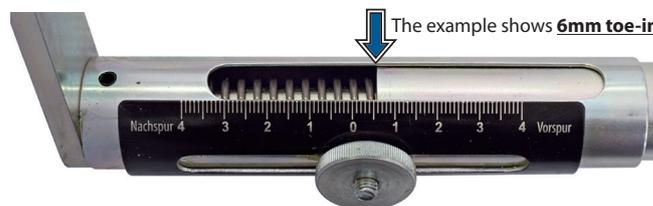
- To ensure the gauge's ease of motion, **always** keep moving parts clean, especially the "adjusting unit with scale" and, if necessary, lubricate with molybdenum disulphide paste for example **KL-0014-0030** (Accessories / see catalogue)!
- Position the gauge between the wheels with a **pre-tension of about 3 to 4cm!**

7. Set the scale on the toe measuring gauge to "0".



8. Carefully roll the vehicle half a wheel turn (180°) forwards until the thrust peaks "1.1 + 2.1" or thrust pieces "3" screwed onto the levelling chains "1.2 + 2.2" just touch the ground again behind the axle. (Fig. 4 A + B)

9. Read the track difference on the scale.



10. Carry out adjustment work according to the manufacturer's instructions.