

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

> [KAISAL](#) /

> [KAISAL Digital Wheel Alignment Camber Gauge \(Model CN29\) Instruction Manual](#)

KAISAL CN29

KAISAL Digital Wheel Alignment Camber Gauge (Model CN29) Instruction Manual

1. INTRODUCTION

The KAISAL Digital Wheel Alignment Camber Gauge, Model CN29, is a precision tool designed for measuring the camber and caster angles of vehicle wheels or brake discs. Proper wheel alignment is crucial for reducing tire wear, improving vehicle handling, and ensuring driving safety. This device assists in restoring the strut to its original camber position after suspension work or checking camber changes before reinstallation. Its wide measurement range and digital display provide accurate and easy-to-read results.



Image 1.1: Overview of the Digital Caster Camber Gauge highlighting its key features.

2. PRODUCT FEATURES

- **Professional Digital Caster Camber Gauge:** Measures camber and caster angles to maintain correct wheel alignment.

- **Easy-to-read Digital LCD Display:** Equipped with a clear digital display and backlight for visibility in various lighting conditions.
- **Wide Range Measurement:** Offers an ultra-wide measuring angle range from -90 to +90 degrees, suitable for various vehicles.
- **Powerful Magnetic Base:** Features a strong magnet for secure attachment to magnetic surfaces, ensuring stability during measurements.
- **Positioning Bubble Design:** An integrated bubble level assists in precise positioning for accurate test results.
- **"Zero" Reset Key:** Allows for easy resetting of the measurement to zero, enabling relative measurements.
- **Data Record Function:** Retains the last reference value upon power cycling, preventing data loss.
- **Durable Construction:** Made from high-density aluminum, providing wear-resistant and drop-resistant properties for extended service life.

3. SETUP AND COMPONENTS

3.1 Components Overview



Image 3.1: Labeled diagram of the digital camber gauge components.

The gauge features a digital display, ON/OFF switch, ZERO reset key, positioning bubble, and a magnetic base. The display indicates battery status, measured value, decimal point, and tilt direction (inward/outward).

3.2 Battery Installation

The device requires batteries for operation. To install or replace batteries:

1. Locate the battery compartment cover on the back of the unit.
2. Slide or unclip the cover to open.
3. Insert the required batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

3.3 Initial Power On and Zeroing

Before taking any measurements, the gauge must be properly zeroed on a flat, level surface.

1. Place the gauge on a perfectly flat and stable surface.
2. Press the "ON/OFF" button to power on the device.
3. Once the display stabilizes, press the "ZERO" key to reset the reading to 0.00. This establishes your reference point.



Image 3.2: Digital display and control buttons, illustrating the zeroing function.

4. OPERATING INSTRUCTIONS

Follow these steps for accurate wheel alignment measurements:

1. **Identify Adjustment Need:** Use the camber gauge to determine which tire's camber angle requires adjustment.
2. **Prepare Vehicle:** Ensure the vehicle is on a level surface. If necessary, remove the tire to access the brake disc or other magnetic surface for attachment.
3. **Attach Gauge:** Securely attach the magnetic base of the camber gauge to the brake disc or a suitable magnetic surface on the wheel hub.
4. **Positioning:** Adjust the gauge until the positioning bubble is centered. This ensures the gauge is level and provides an accurate reading relative to the vehicle's vertical axis.
5. **Power On and Zero:** Press the "ON/OFF" button to turn on the device. After the number on the interface stabilizes, press the "ZERO" button to reset the measurement.
6. **Read Measurement:** The digital display will show the current camber angle. The display also features a backlight for use in dimly lit areas.
7. **Adjust Camber:** If adjustment is needed, replace the bolt on the shock absorber of the original car with an eccentric bolt. Adjust this eccentric bolt to achieve the desired camber angle.
8. **Tighten and Re-measure:** Tighten the eccentric nut with a torque wrench to secure the adjustment. Re-measure the camber angle to confirm accuracy.
9. **Install Tire:** Install the tire and correct any other angles as needed.



Image 4.1: Visual guide for the operating procedure and device dimensions.



Image 4.2: Illustration of the reset key and data record feature.

4.1 Wide Application

The KAISAL Digital Camber Gauge is suitable for wheel alignment across a broad range of vehicles, including cars, motorcycles, trucks, and vans.



Image 4.3: Examples of vehicle types compatible with the camber gauge.

5. MAINTENANCE

To ensure the longevity and accuracy of your KAISAL Digital Wheel Alignment Camber Gauge, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth after each use. Avoid using abrasive cleaners or solvents that could damage the display or housing.
- **Storage:** Store the gauge in a clean, dry environment, away from extreme temperatures and direct sunlight. Keep it in its original packaging or a protective case when not in use.
- **Battery Care:** Remove batteries if the device will not be used for an extended period to prevent leakage and damage.
- **Handle with Care:** Although the gauge is designed to be wear-resistant and drop-resistant, avoid unnecessary impacts or drops to maintain its calibration and functionality.

6. TROUBLESHOOTING

If you encounter issues with your digital camber gauge, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display does not turn on	Dead or incorrectly installed batteries	Check battery polarity. Replace batteries if necessary.

Problem	Possible Cause	Solution
Inaccurate or inconsistent readings	<ul style="list-style-type: none"> • Gauge not properly zeroed • Unstable attachment to surface • Surface not level • Gauge damaged 	<ul style="list-style-type: none"> • Re-zero the gauge on a known flat, level surface. • Ensure the magnetic base is securely attached. • Verify the vehicle and measurement surface are level. • If issues persist, the gauge may require professional calibration or replacement.
Display is dim or flickering	Low battery power	Replace batteries.

7. SPECIFICATIONS

Specification	Detail
Brand	KAISAL
Model Number	CN29
Measuring Range	-90° to +90°
Item Weight	5.9 ounces
Package Dimensions	4.8 x 2.83 x 2.44 inches
Material	High-density aluminum
Display Type	Digital LCD with backlight
Features	Magnetic base, Positioning bubble, Zero reset, Data record

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your KAISAL Digital Wheel Alignment Camber Gauge (Model CN29), please refer to the documentation included with your purchase or contact KAISAL customer service directly. Details for contacting support are typically available on the manufacturer's website or product packaging.