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Adoric KC24

Adoric 0-6" Digital Caliper Instruction Manual

Model: KC24

Introduction

The Adoric 0-6" Digital Caliper is a versatile electronic measuring tool designed for precise measurements in various applications. This caliper features a large LCD screen for easy reading, an auto-off function to conserve battery life, and the ability to convert between inch and millimeter units with a single button. It is ideal for household tasks, DIY projects, and other applications requiring accurate dimensional measurements.

Product Overview

Familiarize yourself with the components of your digital caliper:

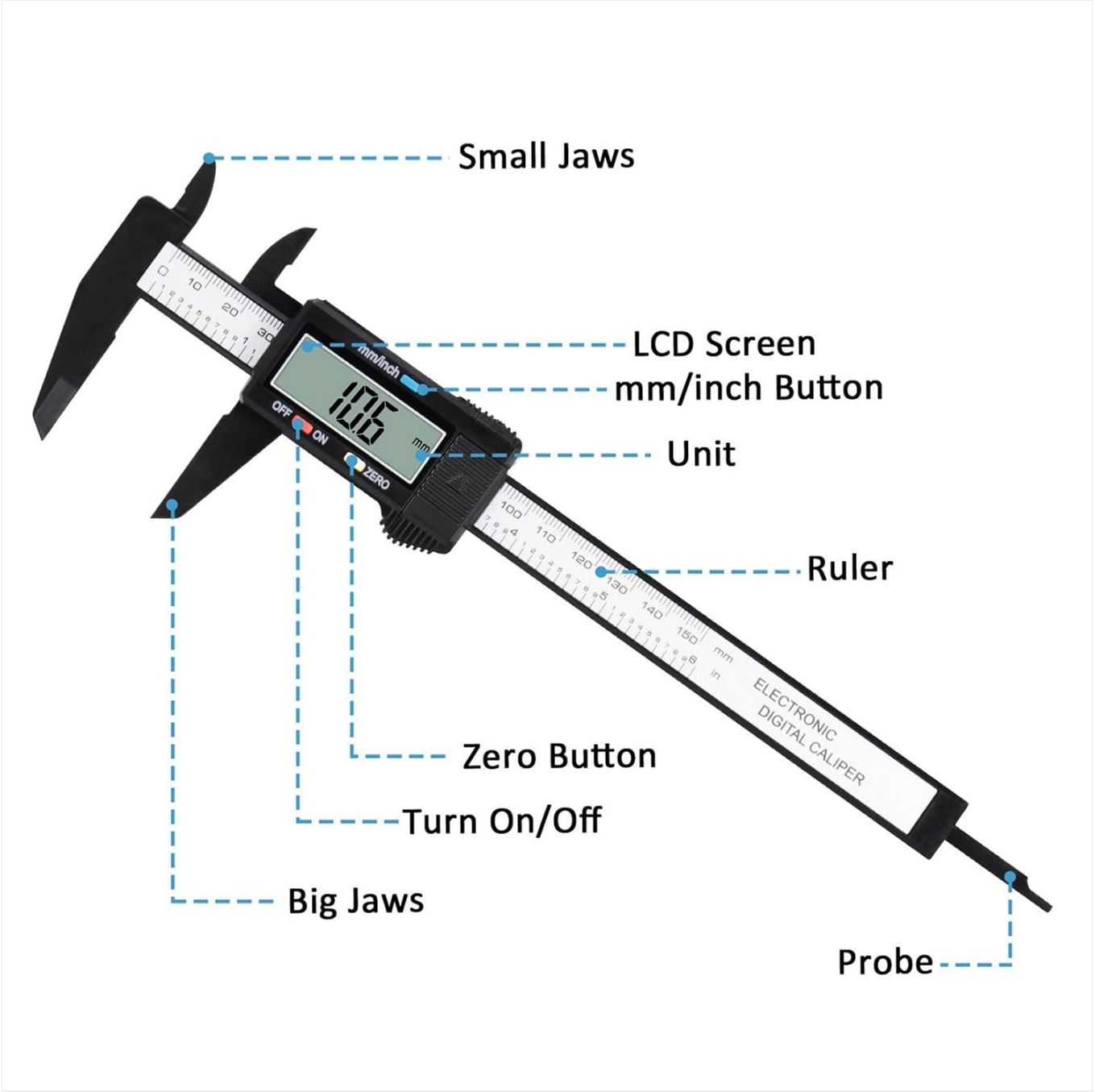

Figure 1: Digital Caliper Components. This image displays the main parts of the digital caliper, including the small jaws, large jaws, LCD screen, mm/inch button, unit display, ruler, zero button, on/off button, and depth measuring probe.

- **Big Jaws:** Used for external measurements.
- **Small Jaws:** Used for internal measurements.
- **Probe:** Used for depth measurements.
- **Ruler:** Provides a linear scale for reference.
- **LCD Screen:** Displays measurement readings.
- **mm/inch Button:** Toggles between millimeter and inch units.
- **Zero Button:** Resets the display to zero at any point.
- **ON/OFF Button:** Manually turns the caliper on or off.

Setup

Battery Installation

The digital caliper requires one LR44 button cell battery. A battery is typically pre-installed, but you may need to activate it or replace it.

1. Locate the battery compartment on the back of the caliper.
2. If a battery is already installed, gently pull out the white insulation film to activate the battery.
3. If replacing the battery, unscrew the battery cover using a small screwdriver.
4. Insert a new LR44 battery with the positive (+) side facing up.
5. Replace the battery cover and secure it with the screw.



Figure 2: Battery Compartment. The image shows the location of the battery compartment and the screw used to secure it.



Figure 3: Removing Insulation Film. This image highlights the white insulation film that needs to be removed before initial use to activate the battery.

Operating Instructions

Power On/Off

- The caliper will automatically turn on when the sliding jaw is moved.
- Press the **ON/OFF** button to manually turn the unit on or off.
- The caliper will automatically shut down after 5 minutes of inactivity to save battery life.

Zero Setting

The zero setting function allows for differential measurements or setting a new reference point.

1. Close the jaws completely or position them at your desired reference point.
2. Press the **ZERO** button. The display will reset to 0.00.
3. You can now take measurements relative to this new zero point.

Unit Conversion

Easily switch between metric and imperial units.

1. With the caliper powered on, press the**mm/inch** button.
2. The display will switch between millimeters (mm) and inches (in).



Figure 4: Unit Conversion. This image demonstrates switching the display between millimeters and inches.

Measurement Modes

The Adoric Digital Caliper supports four distinct measurement modes:

- **External Measurement:** Use the large jaws to measure the outer dimensions of an object.
- **Internal Measurement:** Use the small jaws to measure the inner dimensions of an object.
- **Depth Measurement:** Use the depth probe to measure the depth of holes or steps.
- **Step Measurement:** Use the step feature to measure the height difference between two surfaces.



Figure 5: Four Measurement Modes. This composite image illustrates how to perform external, internal, depth, and step measurements.



Figure 6: Accurate Measuring. The caliper is shown accurately measuring a small object, demonstrating its precision.

Maintenance

- **Cleaning:** Wipe the caliper with a clean, dry cloth after each use. Avoid using solvents or harsh chemicals, as these can damage the plastic components and electronic display.
- **Storage:** Store the caliper in a dry, clean environment, away from direct sunlight and extreme temperatures. Keep the jaws closed to protect them from damage.
- **Battery Replacement:** Replace the LR44 battery when the display becomes dim or erratic. Refer to the "Battery Installation" section for instructions.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Display is blank or dim	Low or dead battery; Insulation film not removed.	Replace the LR44 battery; Remove the white insulation film.
Inaccurate readings	Jaws not fully closed before zeroing; Debris on measuring surfaces; Caliper not held correctly.	Ensure jaws are clean and closed, then press ZERO; Clean measuring surfaces; Hold the caliper firmly and squarely to the object.
Buttons (mm/inch, ZERO) unresponsive	Low battery; Internal electronic issue.	Replace the battery; If the issue persists, contact customer support.
Caliper turns on/off unexpectedly	Loose battery connection; Environmental interference.	Check battery seating; Move to a different environment away from strong electromagnetic fields.

Specifications

Feature	Detail
Brand	Adoric
Model	KC24
Material	Plastic
Measurement Range	0-6 inches / 0-150 mm
Resolution	0.01 inches / 0.1 mm
Accuracy	±0.01 inches / ±0.2 mm
Product Dimensions (L x W)	9.45" x 3.07"
Item Weight	0.07 Kilograms
Battery Type	1 x LR44 (button cell)
Measuring Modes	External, Internal, Depth, Step
Features	Large LCD screen, Auto-Off, Zero Setting, Inch/mm Conversion

Warranty & Support

For warranty information or technical support, please refer to the product packaging or contact Adoric customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

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