

Model D4099 Digital Angle Finder Instruction Sheet



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Specifications

Angle Range.....	180° to -180°
Resolution.....	0.1°
Repeatability	±0.1°
Size	2" x 13/16" x 9"

Basic Controls (see Figure 2)

- A. **Quadrant:** This indicates which angle range quadrant the blade is in.
- B. **ON/OFF Button:** Turns the digital display **ON** and **OFF**. The display will automatically shut off after 5 minutes of non-use.
- C. **Hold Button:** Freeze the digital display.
- D. **Zero/ABS Button:** Toggles the digital display between the "ABS" (absolute) mode and the incremental mode.

Press and hold the Zero/ABS button for more than five seconds to set a new zero point, making the current blade location absolute zero.

Operation

Being able to zero the display is useful when setting up machinery because you can use any angle as a starting point to indicate how much you have moved a component during adjustments without adding or subtracting angles from each other.

For example, if you need to drill holes at a 15° angle: 1) Set the blade to 90° and place it on the drill press table, 2) press the Zero/ABS button to zero the display, 3) rotate the blade until the digital display reads 15°, then 4) rotate the table until the drill press spindle is parallel with the finder blade.

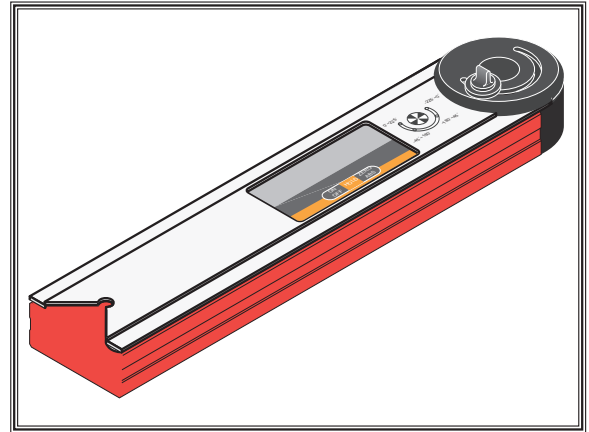


Figure 1. Model D4099 Digital Angle Finder.

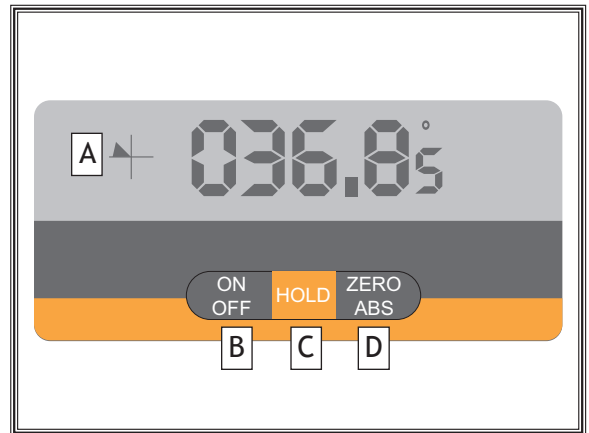


Figure 2. Display and controls.

NOTICE

To ensure accurate results, calibrate the digital angle finder as instructed on the next page before putting it into regular operation.

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Calibration

The digital angle finder is easily calibrated by setting it on a known flat surface with the blade positioned parallel to the beam. Use the Zero/ABS button to toggle the display to the ABS mode, then press and hold this button for more than 5 seconds. After performing this task, the display will show numbers getting larger when the blade is rotated clockwise.

Orientation

When the blade is rotated counterclockwise past zero, the orientation of the numbers will be upside down when the display is in the ABS mode. Switching to the incremental mode causes the display to read right side up regardless of the direction the blade is rotated.

Angle Range Selection

The digital angle finder can be set to 4 different ranges of angles (see Figure 3). The label on the blade assumes the finder is correctly calibrated as described above.

Refer to the table below for the blade range of motion when the lock knob is secured in one of the four positions illustrated on the label or in Figure 3.

Range	From	To
0°~225°	0° Parallel to Beam	Clockwise 225°
-45°~180°	Counterclockwise 45°	Clockwise 180°
-180°~45°	Counterclockwise 180°	Clockwise 45°
-225°~0°	Counterclockwise -225°	Clockwise to 0°

Note: Rotate the blade to one extreme or the other before removing the lock knob.

Battery Change

Battery Type Required CR2032

To change the battery, rotate the round cover on the back of the angle finder counterclockwise. Pry the battery out and replace, as shown in Figure 4.

Note: Removing the battery resets the calibration of the display. After replacing the battery, re-calibrate the angle finder to ensure accurate results.

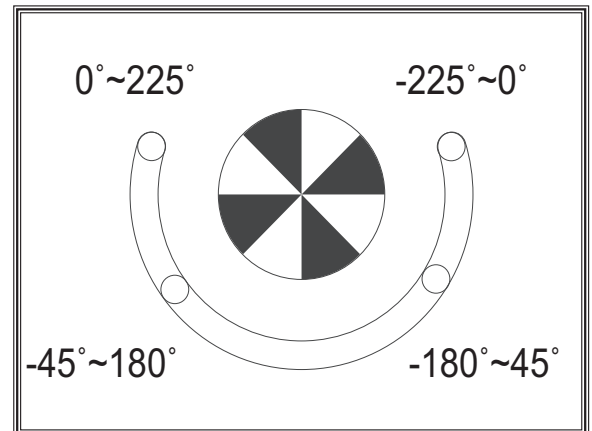


Figure 3. Each small circle on the quadrant label represents a location the lock knob can be installed.

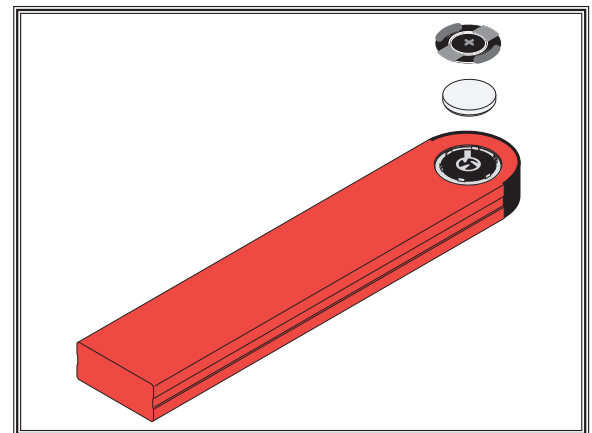


Figure 4. Changing the battery.