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› [Neoteck](#) /

› [Neoteck 1 inch Digital Indicator and 0.03 Inch Dial Test Indicator with Magnetic Base User Manual](#)

Neoteck B0DJQPMST8

Neoteck Digital Indicator and Dial Test Indicator with Magnetic Base User Manual

Model: B0DJQPMST8

INTRODUCTION

Thank you for choosing the Neoteck Digital Indicator and Dial Test Indicator set. This manual provides essential information for the safe and effective operation, setup, and maintenance of your precision measuring instruments. Please read this manual thoroughly before use and retain it for future reference.

SAFETY INFORMATION

- Always handle the instruments with care to avoid damage to precision components.
- Keep the instruments clean and free from dust, oil, and other contaminants.
- Do not expose the digital indicator to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping or subjecting the instruments to strong impacts.
- Ensure the magnetic base is securely attached to a ferromagnetic surface before mounting any indicator.
- When replacing batteries, use the correct type and observe polarity.

PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x Digital Dial Indicator (0-25.4 mm / 0-1 inch)
- 1 x Rear Cover for Digital Indicator
- 2 x 1.5V LR44 Batteries (one pre-installed, one spare)
- 1 x 0-0.03" Dial Test Indicator
- 1 x Magnetic Base Holder
- 1 x Plastic Storage Case
- 2 x Steel Dovetail Clamps

- 1 x Instruction Manual (this document)

Storage Case & Batteries Included



2*Batteries

For Longer Using time



Storage Case

For Well Protecting & Easy Carrying

Image: The Neotek Digital Indicator, spare batteries, and the protective storage case included in the package.

PRODUCT OVERVIEW

Digital Indicator Components

- **Display:** Large LCD for clear measurement readings.
- **Inch/mm Button:** Toggles between imperial (inches) and metric (millimeters) units.
- **OFF/ON Button:** Powers the device on or off.
- **ZERO Button:** Resets the display to zero at any position.
- **Spindle:** The movable rod that contacts the workpiece.
- **Contact Point:** The tip of the spindle, typically M2.5 screw thread for interchangeability.
- **Battery Compartment:** Located on the rear, for LR44 battery.



Convenient Ports, Easy to Use

LR44 Battery Compartment,
Easy to Replace Battery.



M2.5 Screw Thread Contact Point

Durable and Sensitive to Test.



Units Conversion

Convenient to Read.



Multiple Usages

Rear Cover Attached
Hole Diameter: 6.5mm.

Image: Detailed view of the digital indicator showing the LR44 battery compartment, M2.5 screw thread contact point, and unit conversion display.

Magnetic Base and Holder Components

- **Magnetic Base:** Features two solid magnet surfaces with an ON/OFF control switch.
- **ON/OFF Control:** Lever to activate or deactivate the magnetic force.
- **Adjustable Holder Arm:** Flexible, sturdy, and precise rotary joint for positioning the indicator.
- **Fine-Tuning Knob:** For precise adjustments of the indicator's position.
- **Clamping Mechanism:** Designed to securely hold digital or dial indicators with a 3/8 inch (9.52mm) clamping diameter.

Flexible, Sturdy, Precise Rotary Joint, can Adjust Any Direction and Position



360° Swivel Joint

Fine-Tuning Knob



Image: The magnetic base showing the ON/OFF control lever and illustrating its strong magnetic pull.

A Variety of Clamping Methods

To meet the needs of different angles

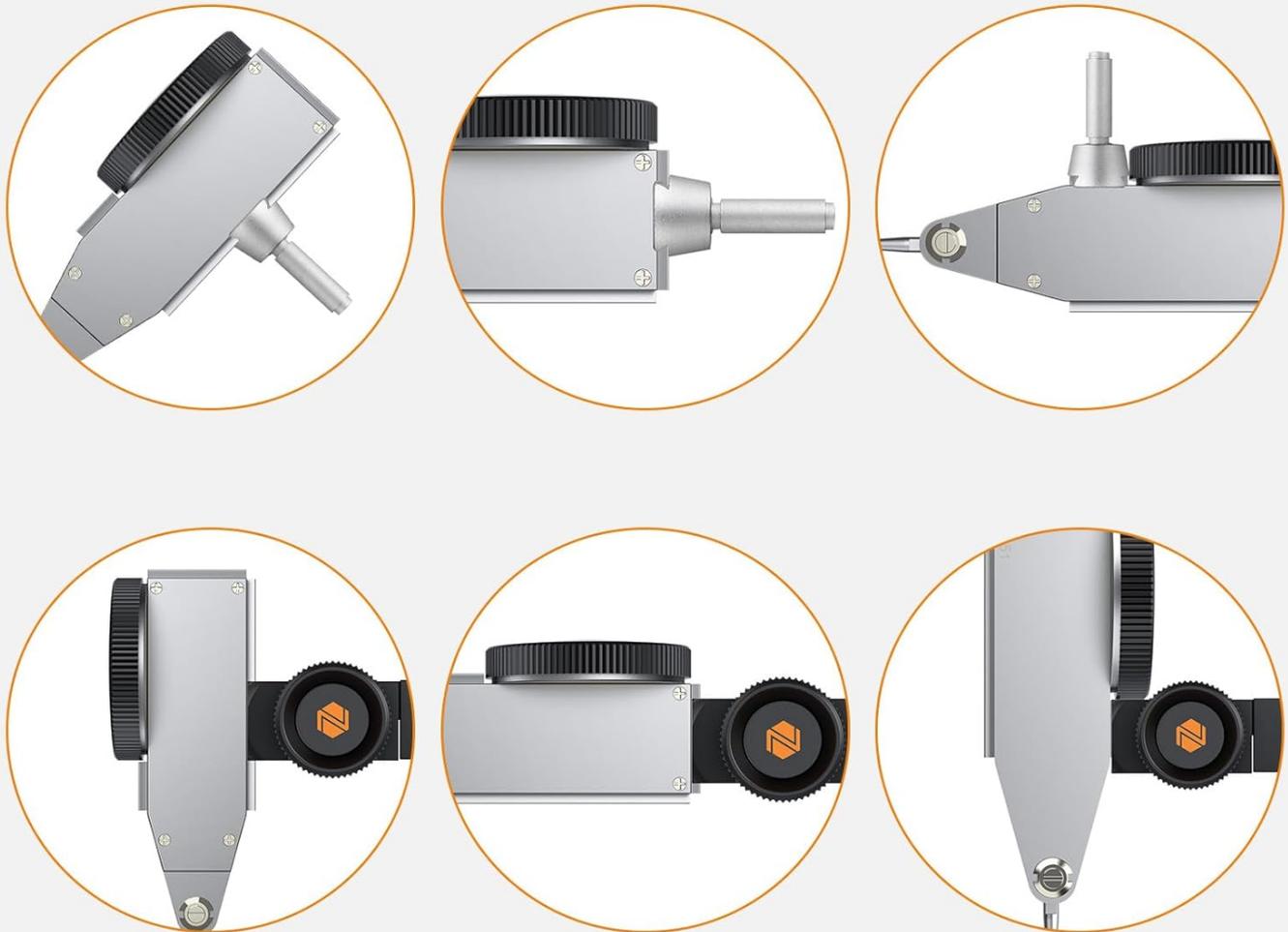


Image: The adjustable holder arm of the magnetic base, detailing its dimensions and the 3/8 inch clamping diameter.

SETUP

1. Installing/Replacing Digital Indicator Battery

1. Locate the battery compartment on the rear of the digital indicator.
2. Gently slide open the battery cover.
3. Insert one LR44 1.5V battery, ensuring the correct polarity (+/-).
4. Close the battery cover securely.

2. Attaching Indicator to Magnetic Base

1. Ensure the magnetic base's ON/OFF switch is in the 'OFF' position.
2. Loosen the clamping screw on the adjustable holder arm.

3. Insert the stem of either the digital indicator or the dial test indicator into the clamp. The clamping diameter is 3/8 inch (9.52mm).
4. Tighten the clamping screw to secure the indicator firmly.
5. For the dial test indicator, use the provided steel dovetail clamps if necessary for alternative mounting angles.

A Variety of Clamping Methods

To meet the needs of different angles

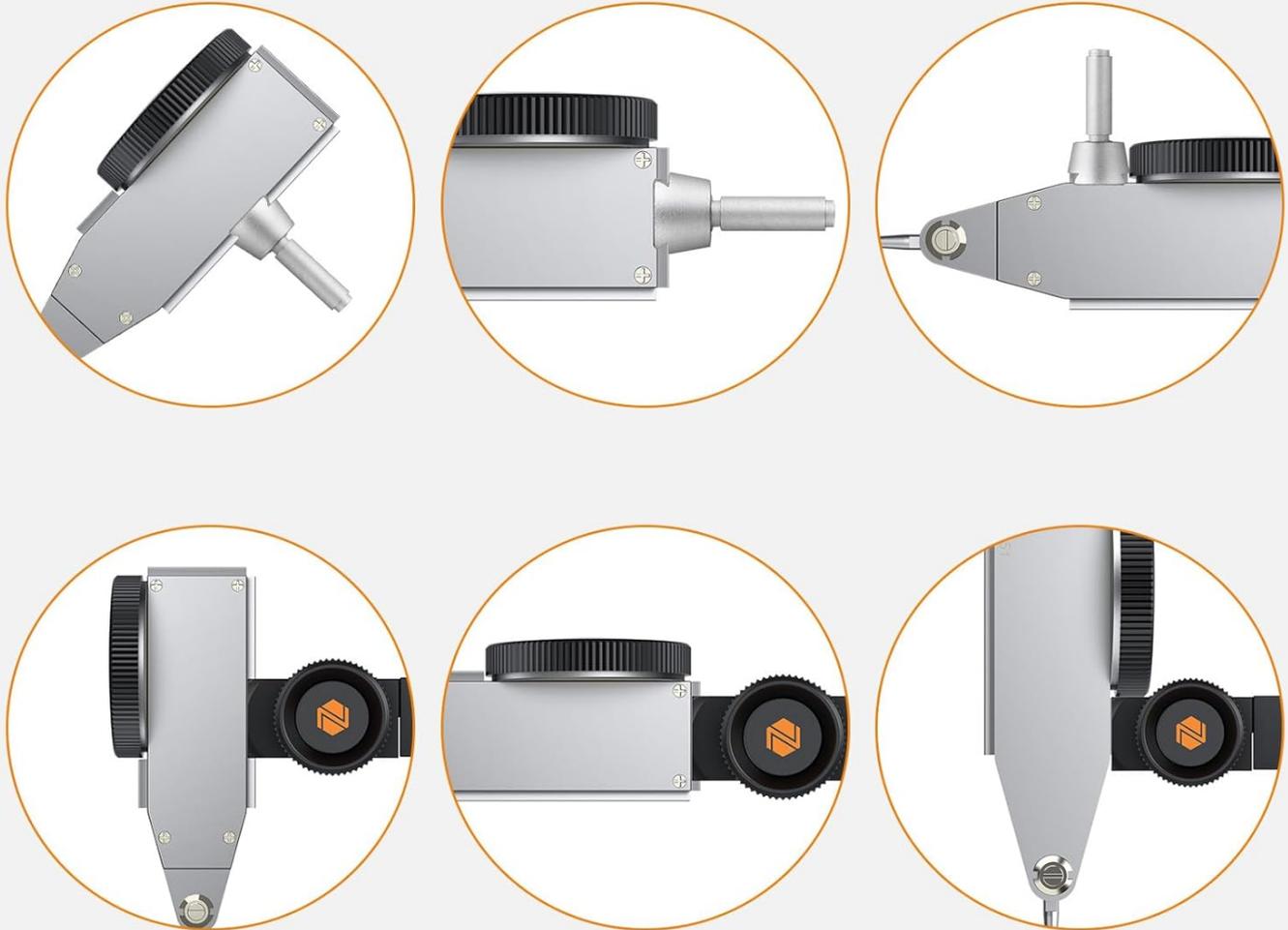


Image: The clamping mechanism of the magnetic base, illustrating the 3/8 inch diameter for indicator stems.

3. Securing the Magnetic Base

1. Place the magnetic base on a clean, flat ferromagnetic surface.
2. Move the ON/OFF control switch to the 'ON' position to activate the magnetic force. Ensure the base is firmly attached before proceeding.
3. Adjust the flexible arm using the rotary joints and fine-tuning knob to position the indicator as required for your measurement.

Two Magnet Surfaces with ON/OFF Control Provides 90lbs/40kg Max Pull

(30MM and up thickness Required for 90lbs pull)



Image: The magnetic base with its ON/OFF switch in the 'ON' position, demonstrating its secure attachment capability.

OPERATING INSTRUCTIONS

Using the Digital Indicator

1. **Power On:** Press the **OFF/ON** button to turn on the digital indicator.
2. **Unit Conversion:** Press the **Inch/mm** button to switch between inches and millimeters as needed.
3. **Zero Setting:** Bring the contact point into initial contact with the reference surface or workpiece. Press the **ZERO** button to set the display to zero. This establishes your reference point for relative measurements.
4. **Taking Measurements:** Move the indicator's contact point along the surface to be measured. The display will show the displacement from the zero point.
5. **Power Off:** Press the **OFF/ON** button again to turn off the indicator. Note: The digital indicator does not remember the zero setting position after auto-off or manual power-off.



Convenient Ports, Easy to Use

LR44 Battery Compartment,
Easy to Replace Battery.



M2.5 Screw Thread Contact Point

Durable and Sensitive to Test.



Units Conversion

Convenient to Read.



Multiple Usages

Rear Cover Attached
Hole Diameter: 6.5mm.

Image: The digital indicator display demonstrating unit conversion between inches and millimeters, and the zero setting function.

Using the Dial Test Indicator

1. **Mounting:** Secure the dial test indicator to the magnetic base using the clamping mechanism.
2. **Positioning:** Adjust the flexible arm to bring the contact point of the dial test indicator into contact with the workpiece.
3. **Setting Zero:** Rotate the outer bezel of the dial to align the '0' mark with the needle. This sets your reference point.
4. **Taking Measurements:** Move the indicator along the surface. The needle will show the deviation from the zero point.

Accurate Dial Test Indicator Set (0-0.03"/0.0005")



Image: The dial test indicator in various measurement scenarios, highlighting the ability to turn the dial to adjust the scale for zeroing.

Applications

The Neoteck Digital Indicator and Dial Test Indicator are versatile tools suitable for various precision measurement tasks, including:

- Machine setup (e.g., CNC Lathes)
- Measuring runout and flatness
- Aligning components (e.g., 3D printer beds, table saw blades)
- General dimensional inspection

0-1"/0-25.4mm Digital Indicator - 0.0005"/0.01mm

Professional Tool for Mechanical and Industrial Measuring

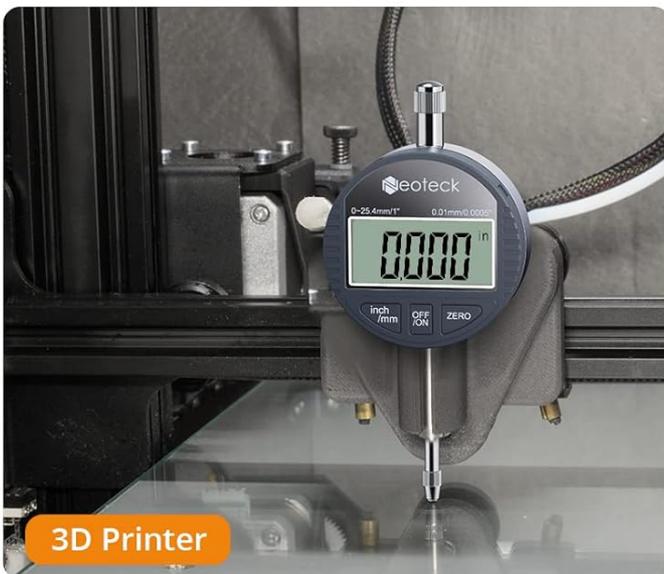


Image: Examples of the digital indicator being used in practical applications such as on a CNC Lathe, a 3D printer, and a table saw for precise measurements.

MAINTENANCE

Cleaning

- Wipe the instruments with a soft, dry, lint-free cloth after each use.
- For stubborn dirt, use a cloth lightly dampened with isopropyl alcohol. Avoid harsh chemicals or abrasive cleaners.
- Ensure no liquid enters the electronic components of the digital indicator.

Storage

- Store the instruments in their protective plastic case when not in use.
- Keep them in a dry environment, away from direct sunlight and extreme temperatures.
- Ensure the magnetic base is in the 'OFF' position during storage to prevent accidental attraction to other metal

objects.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Digital indicator display is blank or flickering.	Low or dead battery; incorrect battery installation.	Replace the LR44 battery, ensuring correct polarity.
Inaccurate or inconsistent readings from digital indicator.	Dirty contact point or spindle; instrument not zeroed correctly; environmental factors (temperature changes).	Clean the contact point and spindle. Re-zero the instrument. Allow instrument to acclimate to ambient temperature.
Magnetic base not holding securely.	ON/OFF switch in 'OFF' position; dirty base surface; non-ferromagnetic surface; thin metal surface.	Ensure switch is 'ON'. Clean base and mounting surface. Use on a ferromagnetic surface at least 30mm thick for maximum pull.
Indicator wobbles on the magnetic base arm.	Clamping screw not tightened sufficiently.	Tighten the clamping screw on the adjustable holder arm.

SPECIFICATIONS

Digital Indicator

- **Measuring Range:** 0 - 25.4 mm (0 - 1 inch)
- **Resolution:** 0.01 mm (0.0005 inch)
- **Battery Type:** 1 x LR44 1.5V (included)
- **Contact Point Thread:** M2.5

Dial Test Indicator

- **Measuring Range:** 0 - 0.03 inch
- **Resolution:** 0.0005 inch

Magnetic Base Holder

- **Maximum Tensile Force:** 90 lbs (40 kg) (Requires metal working surface/surface with thickness of 30mm and above for max pull)
- **Lower Arm Dimensions:** 2.6 inches (6.6 cm)
- **Upper Arm Dimensions:** 2.7 inches (7 cm)
- **Total Height (approx.):** 5.7 inches (13.6 cm)
- **Clamping Diameter:** 3/8 inch (9.52 mm)

WARRANTY AND SUPPORT

Neoteck products are manufactured to high-quality standards. For any questions, technical support, or warranty inquiries,

please contact Neoteck customer service through the retailer where the product was purchased or visit the official Neoteck website for contact information.

