

Starrett 3753A-6/150

Starrett 3753A-6/150 Electronic Depth Gage Instruction Manual

Model: 3753A-6/150 | Brand: Starrett

INTRODUCTION

This manual provides essential instructions for the proper use and maintenance of your Starrett 3753A-6/150 Electronic Depth Gage. This precision instrument is designed for accurately measuring the depth of steps, grooves, or slots. It features a measurement range of 0 to 6 inches (0 to 150mm) with a resolution of 0.0005 inches (0.01mm) and an accuracy of +/- 0.001 inches (0.03mm).

The electronic depth gage is constructed with a hardened stainless steel body and slide for durability, ensuring long-lasting performance in various industrial, machining, and mechanical engineering applications. The clear LCD screen displays measurements in both inches and metric units.



Image: The Starrett 3753A-6/150 Electronic Depth Gage stored in its protective case, ready for use.

SAFETY INFORMATION

- Always handle the depth gage with care to maintain its precision.
- Avoid dropping the instrument or subjecting it to impact.
- Keep the depth gage clean and free from debris, especially the measuring surfaces.
- Store the instrument in its protective case when not in use to prevent damage.

SETUP

1. Unpacking and Inspection

Carefully remove the depth gage from its packaging. Inspect the instrument for any signs of damage that may have occurred during shipping. Ensure all components, including the main unit and any included accessories, are present.

2. Battery Installation

The Starrett 3753A-6/150 requires one CR2032 lithium battery for operation. If the display does not illuminate or shows a low battery indicator, replace the battery:

1. Locate the battery compartment cover, typically on the back of the electronic display unit.
2. Use a small screwdriver or coin to open the cover.
3. Remove the old battery (if present) and insert a new CR2032 battery with the positive (+) side facing up.
4. Securely close the battery compartment cover.

Note: Larger bases and additional batteries are sold separately and may require specific installation procedures not covered here.

OPERATING INSTRUCTIONS

The Starrett 3753A-6/150 Electronic Depth Gage is designed for straightforward operation. Follow these steps for accurate measurements:

1. Power On/Off

- Press the **ON/OFF** button to turn the unit on or off.
- The LCD display will illuminate, showing the current measurement.

2. Selecting Measurement Units (Inches/Metric)

- Press the **IN/MM** button to toggle between inch and millimeter display modes.
- The selected unit will be indicated on the LCD.

3. Zeroing the Gage

Before taking a measurement, it is crucial to zero the gage on a flat, stable reference surface:

1. Place the base of the depth gage firmly on a flat, clean reference surface.
2. Ensure the measuring rod is fully retracted or at the desired starting point.
3. Press the **ZERO** button. The display will show "0.0000" (or "0.00" in metric), indicating the gage is now zeroed at this position.



Image: A hand holding the Starrett Electronic Depth Gage, demonstrating how to measure a step on a workpiece. The base rests on the top surface, and the rod extends into the step.

4. Taking a Measurement

1. After zeroing, place the base of the depth gage firmly on the top surface of the feature you wish to measure.
2. Extend the measuring rod into the depth of the feature. Use the **fine adjustment thumb roll** for precise positioning.
3. Once the rod reaches the bottom of the feature, read the measurement directly from the LCD display.
4. To hold the reading on the display, press the **HOLD** button (if available on your model). Press again to release.
5. The **LOCK** mechanism can be used to secure the slide in position for consistent measurements or transfer.



Image: A close-up view of the Starrett Electronic Depth Gage's digital display, showing a precise measurement in inches during operation.



Image: The Starrett Electronic Depth Gage in use, demonstrating its versatility in measuring various depths on a complex component, with the digital readout clearly visible.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Starrett Electronic Depth Gage:

- **Cleaning:** After each use, wipe down the gage with a clean, soft, lint-free cloth. For stubborn grime, a small amount of isopropyl alcohol can be used, but avoid excessive moisture. Do not use harsh solvents or abrasive cleaners.
- **Storage:** Always store the depth gage in its original protective case when not in use. This protects it from dust, moisture, and physical damage.
- **Battery Replacement:** Replace the CR2032 battery as soon as the low battery indicator appears or the display becomes dim to ensure continuous accurate operation.
- **Calibration:** For critical applications, periodic calibration by a qualified technician is recommended to maintain certified accuracy.
- **Avoid Extreme Conditions:** Do not expose the gage to extreme temperatures, high humidity, or direct sunlight for prolonged periods.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Low or dead battery.	Replace the CR2032 battery.
Inaccurate readings.	Gage not properly zeroed; dirt/debris on measuring surfaces; damaged measuring surfaces.	Ensure proper zeroing on a clean, flat surface. Clean measuring surfaces. If surfaces are damaged, contact Starrett service.
Buttons unresponsive.	Low battery; internal electronic issue.	Replace battery. If problem persists, contact Starrett service.

SPECIFICATIONS

Feature	Detail
Model Number	3753A-6/150
Brand	Starrett
Measurement Range	0-6 inches (0-150mm)
Resolution	0.0005 inches (0.01mm)
Accuracy	+/- 0.001 inches (0.03mm)
Base Length	3-15/16 inches (99mm)
Material	Hardened Stainless Steel
Battery Type	CR2032 Lithium
Product Dimensions	Approximately 1 x 1 x 1 inches (packaging dimensions, actual tool dimensions vary)
Item Weight	Approximately 1 pound

WARRANTY AND SUPPORT

Starrett products are manufactured to high standards of quality and precision. For warranty information, technical support, or service inquiries, please contact Starrett directly.

The L.S. Starrett Company, founded in 1880, is headquartered in Athol, MA, USA, and is a global manufacturer of precision measuring tools.

For further assistance, please refer to the official Starrett website or contact their customer service department.