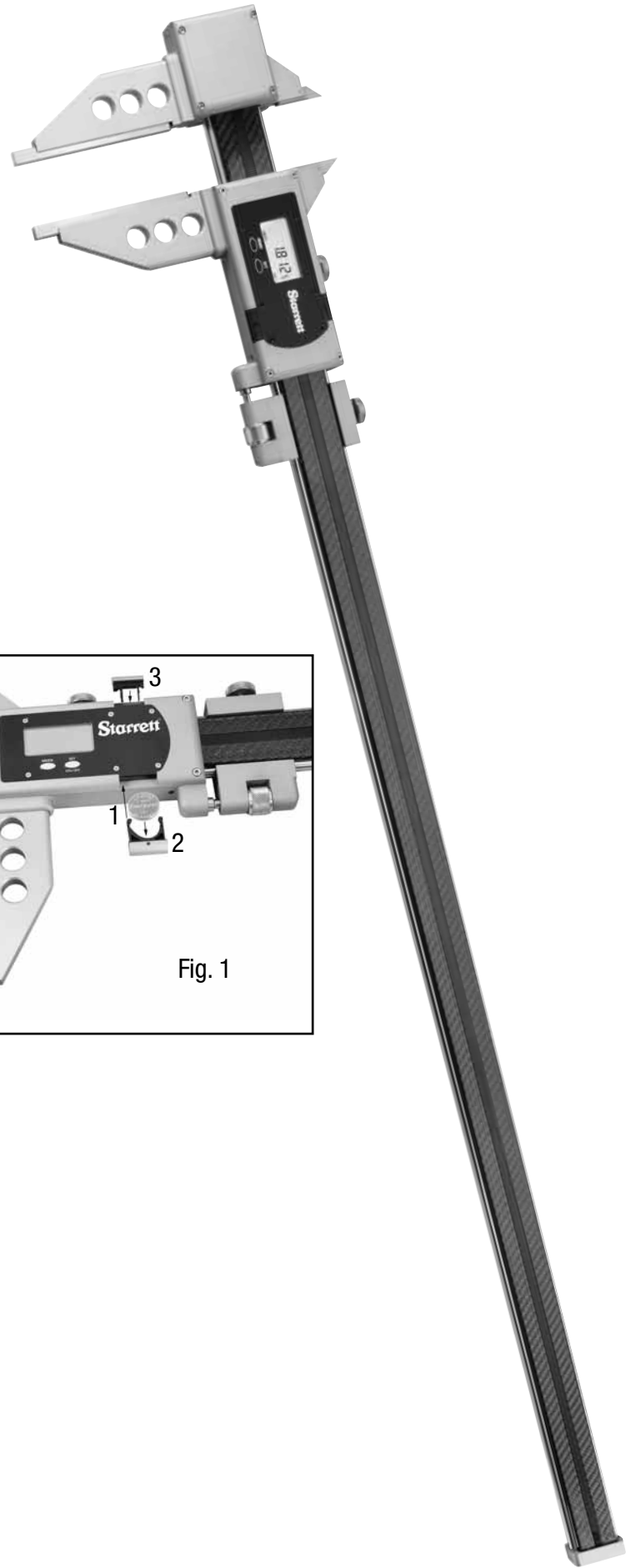


Starrett®

Light Weight Carbon Fiber Calipers No. 5001B Series User's Guide



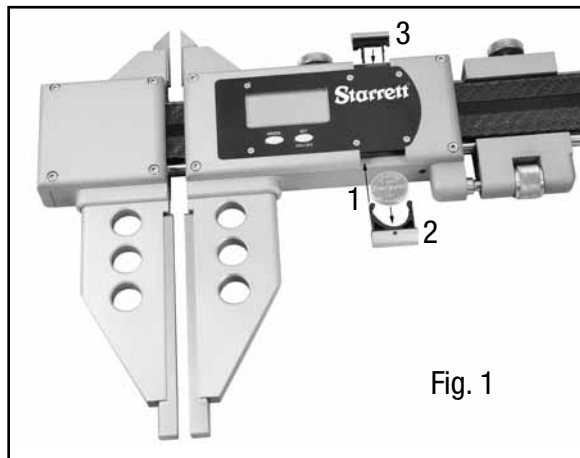
INTRODUCTION

This Starrett product is designed for ease of use and provides the ability to output measurements to a variety of peripherals, either through a traditional wire or by connecting to a Starrett DataSure® Wireless Data Collection System End Node.

Changing Battery

If a "B" is displayed on the left side of the display, the battery needs to be changed. Remove cartridge and replace with Lithium 3V CR2032 battery. Changing the battery will automatically reset the indicator to factory defaults.

To remove the cartridge, slide the battery carrier (2) in the direction of the arrow in Fig. 1. Remove the battery from the carrier and replace it with a fresh CR2032 battery. Then, slide the carrier back into the housing.



OPERATING INSTRUCTIONS

Button Functions

MODE and **SET** button operations are:
Press and Release and Press and Hold

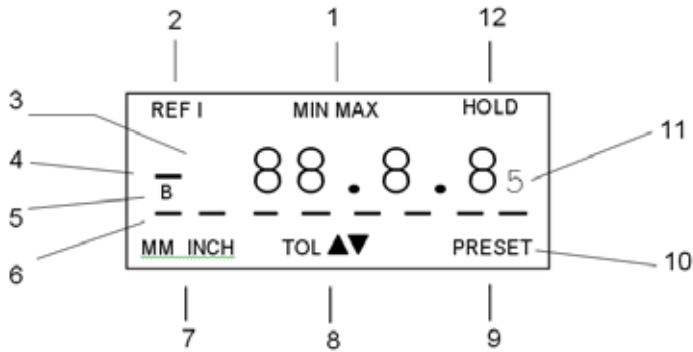
ON / OFF

To turn gage **ON**:
Press and Release ON/OFF

To turn gage **OFF**:
Press and Hold ON/OFF

(Note: When the tool is turned on it will remain in whichever mode it was in when it was turned off.)

LCD Display



1. Indicator of Min Max Mode
2. Indicator of Reference Mode
3. Measured value
4. Negative sign
5. Battery life warning display
6. Indicating cursor for Preset and Tolerance
7. Indicator of Measuring unit
8. Indicator of Tolerance Mode
9. Indicator of Preset Mode
10. Indicator of Set Mode
11. Indicator of Set Mode Display .0005" / .010mm

Measurements can be taken from: SET, REF I, REF II, MIN / MAX, and TOLERANCE Modes

Mode

There are 5 Modes available: SET, REF I & REF II, PRESET, MIN / MAX, and TOLERANCE.

To change between Modes:

Press and Hold **MODE**

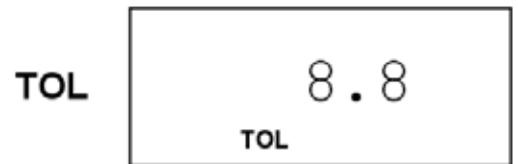
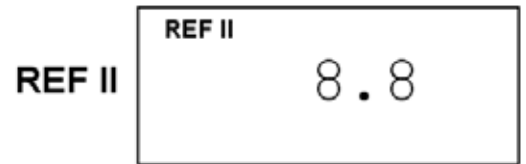
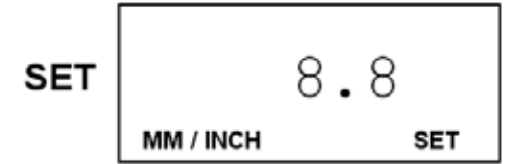
Set Mode

Set Mode can calibrate / zero the tool to a Preset Reference Value (see Reference Mode), and to change the units-of-measure.

Note: If measurements are to be taken from this mode, the Hold function is not available, and when the SET key (also used as ZERO and HOLD) is pressed, the

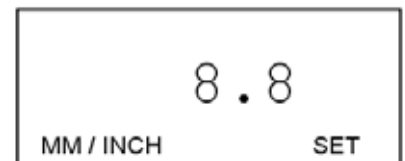
12. Hold indicator

Taking Measurements



display will be zeroed to the REF I or II preset value.

To enter the Set Mode:



Press and Hold **MODE** until **INCH/MM** and **SET** appears

To change between MM / INCH:
Press and Release **MODE**

To calibrate / zero the tool:

Press and Release **SET**

MEASUREMENTS CAN NOW BE TAKEN

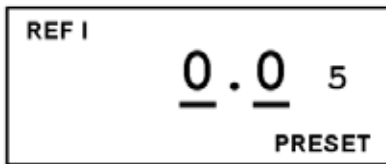
Reference Mode

REF I and REF II Modes will allow for two independent preset values to be set up.

(Ex. REF I = 0.0000 / Zero,
REF II = .74990 / Gage Master)

Entering a Preset Reference Value

Note: The tool needs to be in the correct REF Mode before the preset value of that REF can be entered.



(To change See Reference Mode below)

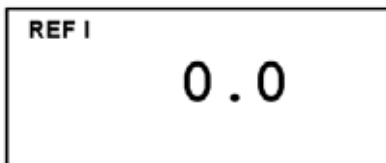
Press and Hold **MODE** until REF I or II and PRESET appears

To change digit value:
Press and Release **SET**

To move cursor to right:
Press and Release **MODE**

To store preset value:
Press and Hold **MODE**
until REF I or REF II appears

MEASUREMENTS CAN NOW BE TAKEN



Measuring in Reference Mode

To enter Reference Mode:
Press and Hold **MODE**
until REF I or REF II appears

To change between REF I and REF II:
Press and Release **MODE**

To save tool in this mode:
Press and Hold **MODE**
until REF I OR II appears

MEASUREMENTS CAN NOW BE TAKEN

RECALL PRESET REFERENCE VALUE

Used to calibrate the gage to a preset value, provided REF I or REF II preset values have been set (See Entering Preset Reference Values). **NOTE:** The recalled value depends on the REF MODE the tool is in.

Press and Hold **MODE** until INCH/MM and SET appears

Place the gage into the Gage Master
Press and Release **SET**

To go back to the Measurement Mode:
Press and Hold **MODE**
until REF I or II appears

MEASUREMENTS CAN NOW BE TAKEN

ZERO RECALL

Used to calibrate the gage to zero, provided REF I or REF II preset value has been set to .0000 / zero (see Entering Preset Reference Values). **NOTE:** The recalled value depends on the REF MODE the tool is in.

To zero the display in Set Mode:
Press and Release **SET**

To store Preset value:
Press and Hold **MODE**

MIN / MAX Mode

Used to display Min and Max measurement values on the gage

Note: Min and Max displayed values are based on the preset value of the REF Mode which the tool is in when entering the MIN / MAX Mode.

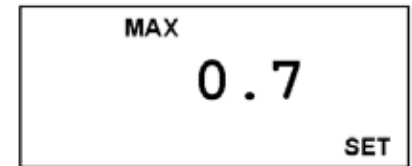


Measuring in MIN / MAX Mode

To enter MIN / MAX MODE:
Press and Hold **MODE** until MIN MAX and SET appears

MEASUREMENTS CAN NOW BE TAKEN

To view Min Reading:
Press and Release **MODE**



To clear previous measurement value:
Press and Release **SET**

To view Max Reading:
Press and Release **MODE**



To clear previous measurement value:
Press and Release **SET**

To zero display in MIN MAX MODE:
Press and Release **SET**

Tolerance Mode

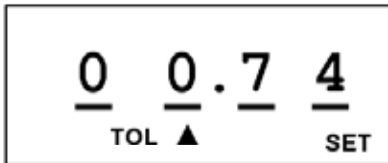
Used to set gage with upper and lower measurement tolerances.

Setting Tolerances

Press and Hold **MODE** until TOL appears



To preset lower tolerance value:



Press and Release **MODE**

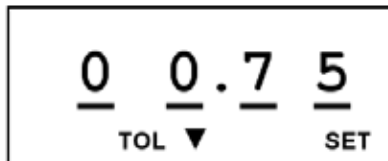
To change digit value:

Press and Release **SET**

To advance to next digit:

Press and Release **MODE**

To store lower value ▼ and



advance to upper tolerance:

Press and Hold **MODE** until TOL appears

To change digit value:

Press and Release **SET**

To advance to next digit:

Press and Release **MODE**

To store upper value and return to Tolerance Mode:

Press and Hold **MODE** until TOL appears

To exit Tolerance Setting Mode:

Press and Hold **MODE**

MEASUREMENTS CAN NOW BE TAKEN



Measuring in Tolerance Mode

To enter TOLERANCE MODE:

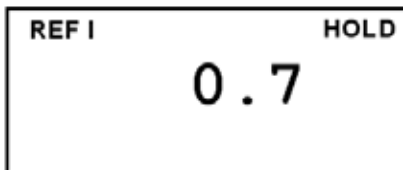
Press and Hold **MODE** until TOL appears

MEASUREMENTS CAN NOW BE TAKEN

Hold



Used to hold a measurement value on the



display.

Note: Hold function is not available when

in the Set Modes.

To Hold the reading:

Press and Release **SET**

To release Hold:

Press and Release **SET**

Data Transmission

This tool comes with an Opto-RS232 output port (Fig. 1 [3]) that allows data transmission thru a traditional wire to a variety of peripherals or by connecting to a Starrett DataSure® Wireless Data Collection System using a Cat.1500-3-1N end node.

The print command is controlled by the

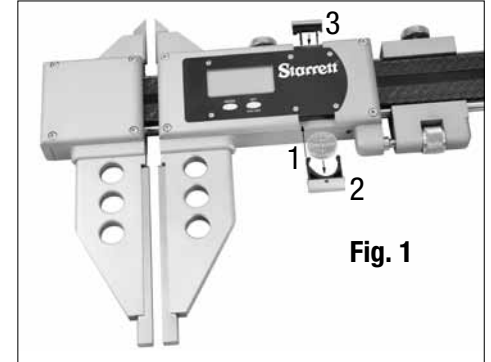


Fig. 1

Starrett®