

GEN-TECH™

ELECTRONIC BORE GAUGE 1.4" ~ 6"

Model 94873

ASSEMBLY AND OPERATION INSTRUCTIONS



Due to continuing improvements, actual product may differ slightly from the product described herein.



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**TO PREVENT SERIOUS INJURY, READ AND UNDERSTAND
ALL WARNINGS AND INSTRUCTIONS BEFORE USE.**

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For technical questions or replacement parts, please call 1-800-444-3353.

SPECIFICATIONS

Gauge capacity	1.4~6" Inside Diameter
Anvils	1.4", 1.6", 1.8", 2.0", 2.2", 2.4", 2.6", 2.8", 3.0", 3.2", 3.4", 3.6", 3.8" and 4.0"* Includes .1", 0.05", 0.02" and 2" anvil extensions <small>*Not actual adapter lengths, but the lengths that the anvils make the device's measuring surfaces.</small>
Gauge Resolution	0.0005"/ 0.002 mm
Power Required	One Button Battery 3 VDC CR2032 (included with spare)
Probe Depth	6" (152mm)
Overall Length	13-1/2" (Gage Only: 1-1/2" X 2-1/2")

Save This Manual

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Write the product's serial number in the back of the manual near the assembly diagram, or write month and year of purchase if product has no number. Keep this manual and invoice in a safe and dry place for future reference.

WARNINGS AND SAFETY PRECAUTIONS

1. **Keep the work area well lit and uncluttered: dim and messy work areas invite possible injuries.**
2. **Keep tools clean.** The Electronic Bore Gauge should be kept free of any grease, dirt, or other contaminants that may foil an accurate reading. Use only clean, soft rags to wipe down the face of the tool.
3. **Store and use only in dry locations.**
4. **Wear ANSI-approved safety goggles during set up and use.**
5. **Check for any broken or damaged parts and any other conditions that may affect the Electronic Bore Gauge's operation.** Replace or repair damaged or worn parts immediately using only a qualified repair facility.
6. **Do not modify or force this product.** Use the tool for intended purposes only.
7. **Keep out of reach of children.** Contains small parts that can be choked on or swallowed.
8. **WARNING: The warnings, precautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur.** It must be understood by the operator that common sense and general caution are factors that cannot be built into this product but must be supplied by the operator.

UNPACKING

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

ASSEMBLY INSTRUCTIONS

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.



Figure 2A

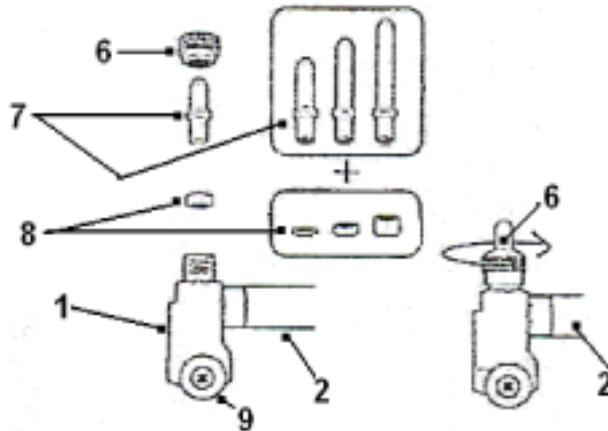
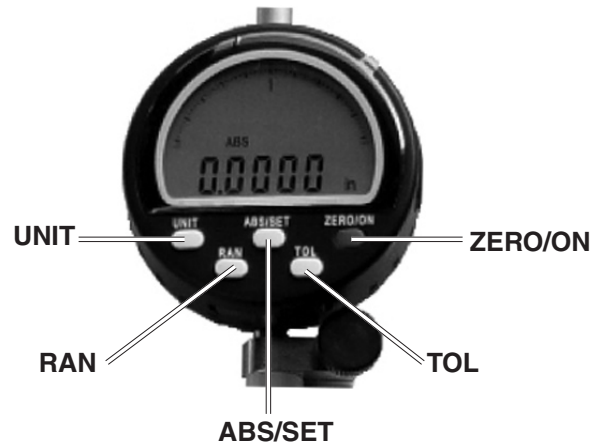


Figure 2B

1. Attach the Display (5) into the Grip (3). The face of the Display (5) turns 360°.
2. Lock the Display (5) in place with the Locking Screw (4). **(See Figure 2A).**
3. Select the Anvil, or combination of an Anvil (7) and Washers (8), as needed and install on Head (1). **(See Figure 2B)**
4. Tighten the Anvil Locking Nut (6) snugly. **(See Figure 2B)**

Note: Do not over tighten the Anvil Locking Nut (6).

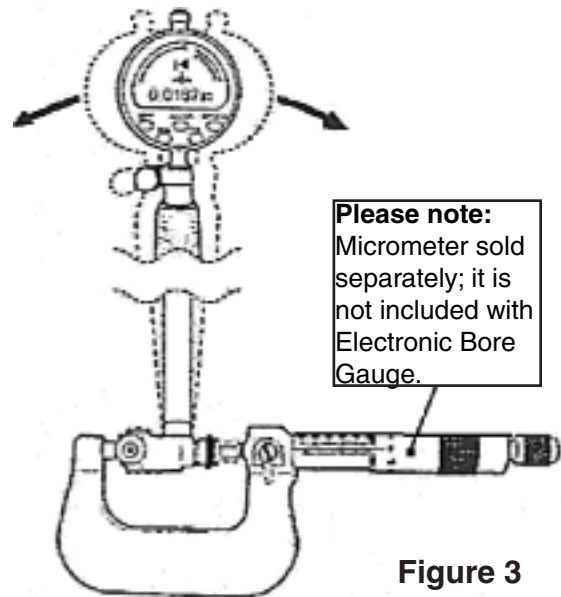
OPERATION INSTRUCTIONS



1. Press the ZERO/ON Button to turn on the Electronic Bore Gauge. When turning off, hold the ZERO/ON Button down until the tool shuts down.
2. Select INCH or METRIC modes by pressing the UNIT Button.
3. Use the ABS/SET button to set a specific measurement.
4. The RAN button will measure the minimum range of the bore being measured.
5. The TOL button will yield the tolerance range of the bore being measured.

Calibration Using a Micrometer, and Measuring a Bore:

1. Set the outside micrometer (not included) to the exact dimension to be measured. Tighten the Lock Nut located on the micrometer.
2. Place the Electronic Bore Gauge measuring contacts across the micrometer (not included). **(See Figure 3)**
3. Tap the RAN Button twice. Sweep the Electronic Bore Gauge back and forth in the micrometer (not included) to set the minimum data. **(See Figure 3)**
4. Remove the Electronic Bore Gauge and note the minimum data on the display.
5. Tap the RAN Button twice to zero the indicator.



6. Start measuring the work piece. Tap the RAN Button twice, note the display symbol. Sweep the Electronic Bore Gauge back and forth in the bore; note the minimum data on the display.
7. To calculate the dimension of the work piece: take the dimension of the outside micrometer and subtract the minimum data of the work piece and the minimum data of the micrometer.

For Common Usage:

1. Insert the Electronic Bore Gauge into the bore to be measured. Press the ZERO Button. This will initialize the standard mode. Gently sweep the Electronic Bore Gauge back and forth in the test bore to lock on to the diameter.
2. Remove and then insert the Electronic Bore Gauge into the next test bore. Follow the procedure in step #1 and repeat the measuring steps in this section.

PLEASE READ THE FOLLOWING CAREFULLY

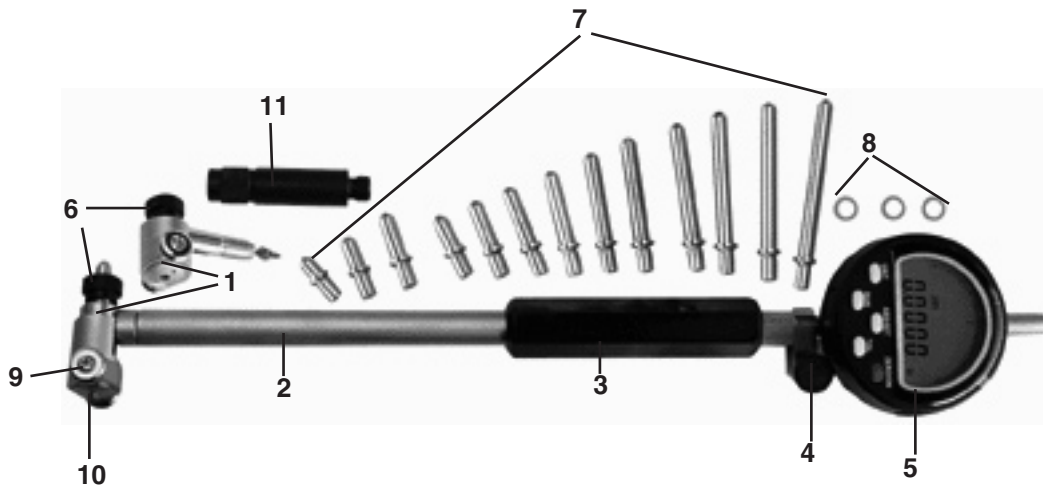
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PARTS LIST

Part	Description	Qty
1	Head	2
2	Shaft	1
3	Grip	1
4	Locking Screw	1
5	Display	1
6	Anvil Locking Nut	1

Part	Description	Qty
7	Anvils (various sizes)	14
8	Washers	3
9	Guide Device	1
10	Contact Point	1
11	Large Anvil Fitting	1

ASSEMBLY DIAGRAM



Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.