**Technical Specifications**

- **Material:** Precision Ground stainless steel
- **Measuring Capacities:** Inside/Outside
- **Readout:** Large Liquid Crystal Display
- **Repeatability:** 0.01MM/0.0005”
- **Maximum Measuring Speed:** 1.5M/Sec., 60” Second
- **Battery:** SR44 1.55 Volt Silver Oxide (included)
- **Capacity:** 180 Mah
- **Working Temperature:** 5 degree C or 41 degree F-104 F
- **Accuracy:** +/- .001 or +/- .03mm

**Specific Specifications:**

- **93940**
  - Max Jaw Throat: 1-17/32”, 1-31/32”
  - Calipers Range: 0”~6” or 0~150mm

- **93941**
  - Max Jaw Throat: 2-17/32”
  - Calipers Range: 0”~8” or 0~200 mm

- **93942**
  - Max Jaw Throat: 0”~6” or 0~150mm
  - Calipers Range: 0~150mm

The Digital Caliper also has a interface port for hook up to your computer-(cord not included).
Safety Warnings and Precautions

WARNING: When using product, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

1. Keep work area clean. Cluttered areas invite injuries.
2. Observe work area conditions. Keep work area well lighted.
3. Store idle equipment. When not in use, the Caliper must be stored in a dry location. Always lock up products and keep out of reach of children.
4. Use the right product for the job. There are certain applications for which the Caliper was designed. Do not modify the Caliper and do not use the Caliper for a purpose for which it was not intended.
5. Check for damaged parts. Before using any product, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for any broken or damaged parts and any other conditions that may affect its operation. Replace or repair damaged or worn parts immediately.
6. Replacement parts and accessories. When servicing, use only identical replacement parts. Use of any other parts will void the warranty.
7. Do not operate product if under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the product.
8. Use eye protection. Always wear ANSI approved impact safety goggles when working with tools and equipment.

Warning: The warnings, cautions, 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 caution are factors which cannot be built into this product, but must be supplied by the operator.

Unpacking

When unpacking your Digital Caliper, check to make sure that the product is intact and undamaged. If any parts are missing or broken, please call HARBOR FREIGHT TOOLS at 1-800-444-3353.

Operation

Your Large LCD Digital Caliper requires no assembly. It is important that you read the entire manual to become familiar with the product BEFORE you use the Digital Caliper.

Do not bump or shock the tool when applying it to any work piece. Rough treatment may damage the highly sensitive mechanism.

Measuring the Outside of an Object

1. Loosen the Lock Screw (5) to allow the Caliper to slide. Push the “On/OFF” Button (see Figure 1) to “ON”. Use the Thumb Control (9) to separate the Jaws (13) of the Caliper.
2. Slide the object you wish to measure in-between the prongs on the Caliper or between the jaws on the Caliper-see Figure 1.

3. The LCD readout will provide you with a measurement of the space between the prongs or jaws as the object is measured.

4. Press the “Off button” to turn off when finished using.

**Zero Button**

1. Press the “Zero” button to set the readout to 0. You can use this function to establish a baseline when the jaws are positioned at any width. Take your first measurement. Push the “Zero” Button. Take your second measurement and note the difference.

**Inch/mm Switch**

1. To change the setting from inches to millimeters, press the ON/Inch/mm button. Each time the button is pushed the mode will change. Inches read to 3 decimal places, for example, 1.078” and mm will read to two decimal places.

The Large Digital Caliper can be used to take measurements in a number of different ways:

**Measuring the Inside of an Object**

1. Set the prongs on the Caliper inside of the object being measured. Make certain the Caliper readout is calibrated to “zero” while the prongs are closed. Spread the prongs apart until they are touching the surface of the object being measured. The LCD readout will show the measurement in either inches or mm.

2. Measurements can be taken from the Measuring Face (1) to the inside of the Prongs (2) following the steps outlined in #1-see Figure 1.
3. Use the inside of the Jaws (13) to measure the outside of an object—see Figure 2. Set the Jaws (13) on the Caliper around the object being measured. Make certain the Caliper readout is calibrated to “zero” while the Jaws (13) are closed. The LCD readout will show the measurement in either inches or mm.

**Replacing the Battery**

1. Remove the battery cover by gently sliding it off —see Figure 2.
2. Replace the battery with a Silver Oxide Battery, 1.55V, SR44. Insert it into the compartment so the positive and negative polarity match what is indicated.
3. Replace the battery cover. Dispose of the old battery in accordance with local ordinances for proper disposal.

**Figure 2**

![Battery Compartment](image)

**Maintenance**

1. Protect the Digital Caliper from rough use. It is susceptible to damage from being dropped, struck with a test piece, improperly mounted or other abuse. The precision movement is similar to a watch works, and should be treated accordingly.
2. Protect the Caliper from exposure to water or corrosive materials. It should be kept clean and dry. Occasional cleaning with a clean rag will extend its life and good appearance.
3. Lock it up and store in a dry location to inhibit rust. Keep out of the reach of children.

**Troubleshooting**

1. LCD flashes continuously: Battery charge is too low. Replace battery.
2. Display doesn’t change when Slider is moved: Circuit needs to be reset. Remove the battery, wait 30 seconds, replace battery and turn the Caliper “ON”.
3. LCD display does not show: Battery has poor connection or battery voltage is too low. Take battery out and adjust connections. Replace the battery as necessary.
**Parts List**

1. Measuring Face
2. Prongs
3. LCD
4. Inch/mm Button
5. Slider Lock Screw
6. Depth Measuring Blade
7. Beam
8. Scale
9. Thumb Roller
10. Battery Compartment
11. Zero Button
12. On/Off Button
13. Jaws

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**PLEASE READ THE FOLLOWING CAREFULLY**

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

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**CEN-TECH LIMITED 1 YEAR WARRANTY**

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of one year from the date of purchase. This warranty does not apply to damage due directly or indirectly to misuse, abuse, negligence or accidents; repairs or alterations outside our facilities; or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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