

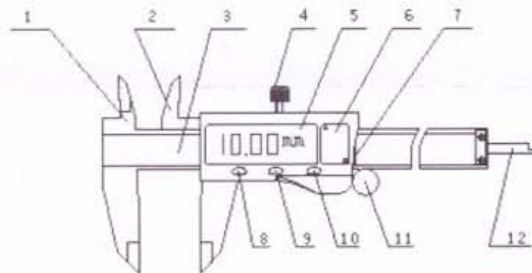


# FRACTIONAL ELECTRONIC DIGITAL CALIPER OPERATION INSTRUCTIONS

## 1: Caliper Illustration

### Three-key type caliper

- 1—Beam  
2—Slider  
3—Scale  
4—Locking Screw  
5—LCD Display  
6—Battery Lid  
7—Dust Keeper  
8—Power ON/Metric/Inch/Fraction Selection Button  
9—Power OFF Button 10—Zero Setting Button 11—Fine Adjusting Thumb Wheel 12—Depth Measuring Rod



## 2. MAIN SPECIFICATIONS AND FUNCTIONS

### 2.1 Measuring Range and Accuracy

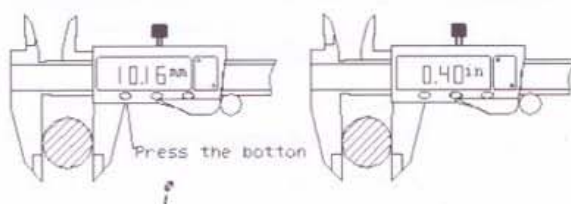
Measuring Range	Indication error
0—150mm / 6in	0—8in 0.001in 0—200mm 0.03mm
0—200mm / 8in	> 8—12in 0.0015in >200—300mm 0.04mm
0—300mm / 12in	

- 2.2 Reading Value 0.0005in; 0.01mm; 1/64"  
2.3 Repeatability 0.0005in; 0.01mm; 1/64"  
2.4 Max Measuring speed 60in/s; 1.5m/s  
2.5 Basic function Inside, Outside, Depth and Step measuring.  
2.6 Display LCD Display with minus sign "-", three digits and "mm", fractional and sign "in/FRAC" or five digits and sign "in".  
2.7 Power One battery 1.55V silver oxide (SR44W) for 12 month is using continuous.  
2.8 Operating temperature 0~+40℃  
2.9 Storage temperature -20~+70℃  
2.10 Maximum relative humidity 80%

## 3. MEASURING APPLICATION FIGURES

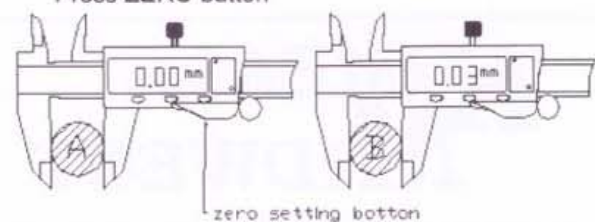
### 3.1 Metric/Inch/Fraction conversion

Press mm/inch/F button

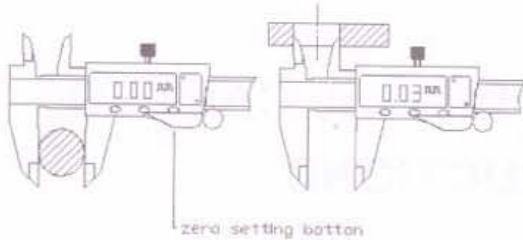


### 3.2 Comparison Measuring with Reference Size A

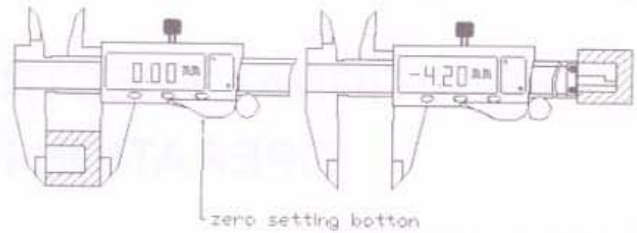
Press ZERO button



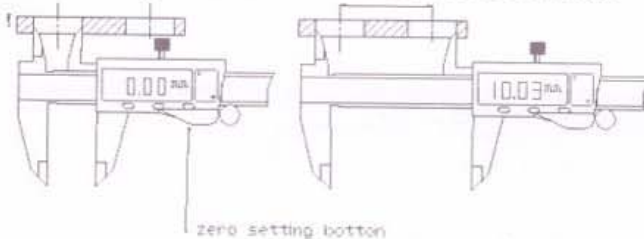
### 3.3 Comparison measuring between hole and axle



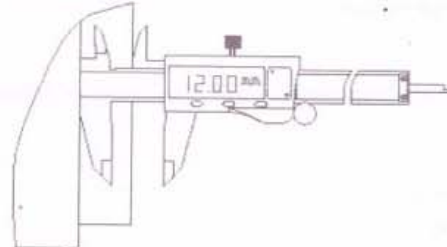
### 3.4 Measuring thickness of hole bottom



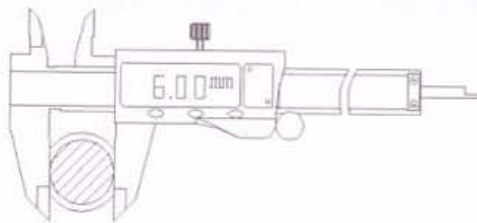
### 3.5 Measuring center distance between same size holes



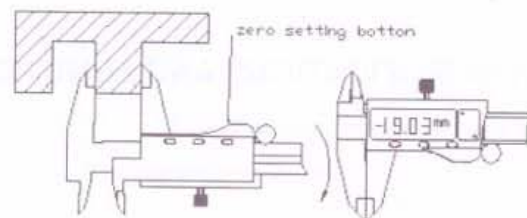
### 3.6 Measuring step



### 3.7 Measuring outside size of narrow groove



### 3.8 Measuring under the reading is very difficult



## 4. NOTICE

- 4.1 Keep body surface clean, prevent liquid material from getting into slider to damage electronics.
- 4.2 The surface of the calipers should be cleaned by mild solvent, and the body may be lubricated using a small amount of light oil, Acetone and alcohol must not be used.
- 4.3 In order to avoid damaging electronics, please don't remove interface lid when the output interface isn't used.

## 5. GENERAL TROUBLESHOOTING

Problem	Five digits jump once simultaneously on LCD screen per second	The display can not count, or the digits will not change.	LCD screen will not display.	When the caliper has been used for a long time, indication error is >0.1mm at full length.	Metric/inch selection button will not work.
Cause	Battery voltage is under 1.45V	Circuit fault error	1. Poor battery contact. 2. Battery voltage is under 1.1V	Dirty sensor.	Pressing the button too hard may have distorted the spring.
Solution	Remove the battery cover and replace the battery with a new one	Remove the battery and replace it after 30 seconds.	1. Remove the battery cover and check that the battery has good contact. 2. Replace the battery	Remove the electronic assembly. Clean sensor surface with a little mild solvent. Reinstall the electronic assembly.	Remove the cover to repair the key spring.

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