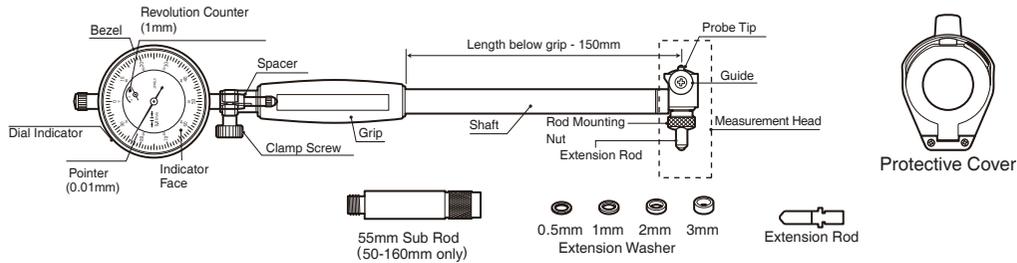


PART IDENTIFICATION



SPECIFICATIONS

Measuring Range (mm)	35~50	50~100	50~160
Graduation (mm)	0.01		
* Wide Range Accuracy (μm)	15	18	18
* Adjacent Error (μm)	5	6	6
* Repeat Accuracy (μm)	3		
Single Probe Measuring Range (mm)	1.2	1.6	1.6
Extension Washer	0.5, 1, 2, 3 mm (One each)		
Weight (kg)	1.05	1.1	1.15

NOTICE

1. This is a precision instrument, do not drop, disassemble, modify, or mishandle.
2. Keep instrument away from liquids.
3. Use only with provided extension rod, washers, and sub rod.
4. Keep instrument away from direct sunlight or high temperatures.
5. After use, remove dust and debris, apply light oil to lubricate mechanism at joint between Measurement Head and Shaft, and apply rust preventative oil to bare metal components.
6. When not in use store in original case.
7. This product is for measuring inside diameters, use only as directed. Improper use may cause damage or personal injury.

ASSEMBLY

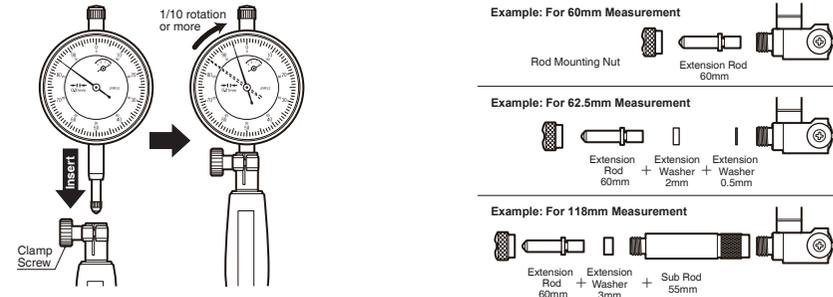
1. Remove the two screws that hold protective cover in place. To reattach the protective cover, please refer to the section: "Attaching the Protective Cover"
2. Loosen the clamp screw and insert the dial indicator until the pointer rotates 1/10 of a turn or more. Tighten the clamp screw to secure.
3. Choose combinations of rods, washers, and sub rods (50-160mm only) applicable for desired measurement range.

WARNING

All safety information must be read and understood by the operator.

Remove the rod mounting nut and install the selected rod, washers and sub rods. Then, replace the mounting nut to secure to body.

NOTE: When selecting washers, attempt to use the least number of washers possible.



OPERATION

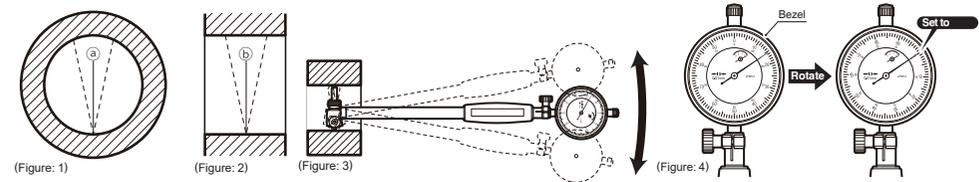
Before use, ensure the measurement head is secure. Tighten as necessary.

ZERO POINT ADJUSTMENT

1. In the cross section perpendicular to the axis of the ring gauge, position the gauge along diameter \textcircled{a} (Figure: 1). This is the maximum distance, and at this point the dial indicator will read the minimum value. The gauge head will automatically sit in this position when inserted.
2. In the cross section parallel to the axis of the ring gauge through diameter \textcircled{a} , position the indicator to minimize the distance \textcircled{b} (Figure: 2). In this position the dial indicator will read the maximum value.
3. This position must be manually achieved by moving the indicator and noting the position where the pointer shows the maximum value. (Figure: 3)
4. The reading obtained at step 3 is the zero-point. Rotate the bezel of the gauge until the pointer is at the zero point of the indicator face. (Figure: 4).

MEASUREMENT

Insert the measurement head of the bore gauge into the object to measure. As in step 3 of "Zero-Point Adjustment" above, pivot the gauge while checking the pointer to determine the diameter \textcircled{c} where the indicator will show the maximum value to determine the reading.



ATTACHING THE PROTECTIVE COVER

1. Loosen the clamp screw, remove clamp and spacer from shaft. (Figure: 5)
2. Follow the "Assembly" procedure to mount the indicator and secure with the clamp.
3. Mount the protective cover to the indicator and attach with the 2 mounting screws. (Figure: 6)

