SK DIAL BORE GAUGE

Thank you for purchasing the Dial Bore Gauge.
Please read this manual thoroughly before use for proper operation.

■ PART IDENTIFICATION

Gauge
Bezel
Pointer (0.01mm)
Gauge Face
Clamp Screw
Handle
Rev. Cntr. (2 rev. = 1mm)
Cap

Accessories

0.5mm Washer (WCDI-18 only)
Extension Rod
(WCDI-10)　(WCDI-18)
Spanner
(WCDI-10)　(WCDI-18)

※Spanners shown in drawing above vary slightly in appearance, but function will be same.

Shaft
Extension Rod
Measurement Head
Probe Tip
Length below Handle 50 mm
（WCDI-10）

Length below Handle 100 mm
Extension Rod
Measurement Head
Probe Tip
Guide
（WCDI-18）

■ SPECIFICATIONS ＊Including supplied Dial Gauge

Dial Gauge		WCDI-10	WCDI-18
Measuring Range	（mm）	6〜10	10〜18
Graduation	（mm）	0.01	0.01
＊Wide Range Accuracy	（μm）	12	12
＊Adjacent Error	（μm）	5	5
＊Repeat Accuracy	（μm）	3	3
Single Stroke Range	（mm）	0.7	0.9
Washer	（mm）		0.5
Weight	（g）	180	195

Extension Rods：
WCDI-10···6・6.5・7・7.5・8・8.5・9・9.5・10mm（9 Pieces）
WCDI-18···10・11・12・13・14・15・16・17・18mm（9 Pieces）

⚠ NOTICE

● This is a precision instrument, handle with care.
● Do not disassemble or modify.
● Keep instrument away from water and oil.
● Use only with supplied Extension Rods and Washer.
● Keep instrument away from direct sunlight and high temperatures such as in a car, or near a stove or heat source.
● After use, remove dust and cutting chips, and apply rust preventative oil to Extension Rods and Washer. When not in use store in supplied storage case.
● This product is for measuring inside diameter; use only as directed. Improper use may cause accident or injury.

■ ASSEMBLY

① Loosen the Clamp Screw and insert the Dial Gauge until the Pointer rotates 1/10 turn or more. Tighten the Clamp Screw to secure.

1/10 rotation or more

Insert

Clamp Screw
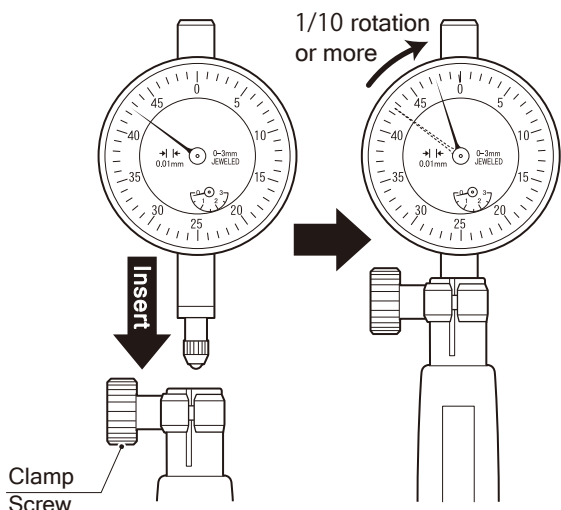
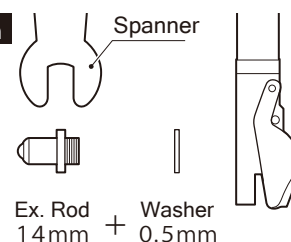② Select the Extension Rod or Washer (WCDI-18 only) for the dimension you want to measure.

Ex.） WCDI-10　Set to measure **8.5mm**

1. Loosen the Nut at the bottom of Measurement Head
2. Install the Extension Rod and secure.

Ex. Rod 8.5mm
Nut
Spanner
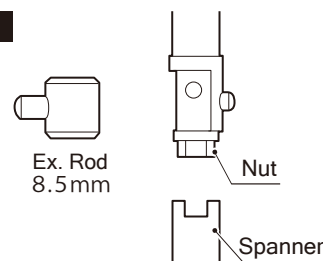
Ex.） WCDI-18 Set to measure **14.5mm**

Using Spanner, attach the Extension Rod and Washer to the Measurement Head

Spanner

Ex. Rod 14mm ＋ Washer 0.5mm

■ OPERATION

※ Before use, please make sure the Measurement Head is
not loose on the Handle. Tighten as necessary.

SETTING THE 0-POINT

① Prepare a Ring Gauge to use as a reference standard
for setting the zero-point. Insert the Measurement Head
into the ring gauge.

② In the direction perpendicular to the Ring Gauge axis,
position the Bore Gauge to measure diameter ⓐ shown in
the cross section (Figure 1). This is the maximum
distance, and the Dial Gauge will show the minimum
reading. The Guide moves to automatically position the
Gauge Head at this diameter when inserted.

※ WCDI-10 does not have a guide on the
Measurement Head, so please position at minimum
value manually.

③ In the cross section shown in Figure 2, parallel the Ring
Gauge axis though diameter ⓐ, position the Bore Gauge
to minimize the distance ⓑ. In this position the Dial Gauge
will read the maximum value.
This position is determined by manually moving the gauge
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 Gauge Face. (Figure 4)

MEASUREMENT

Insert the Measurement Head of the Bore Gauge into the
object to be measured. As in step ③ of "Setting the 0-
Point" above, pivot the gauge while checking the pointer
to determine the diameter ⓑ where the indicator will
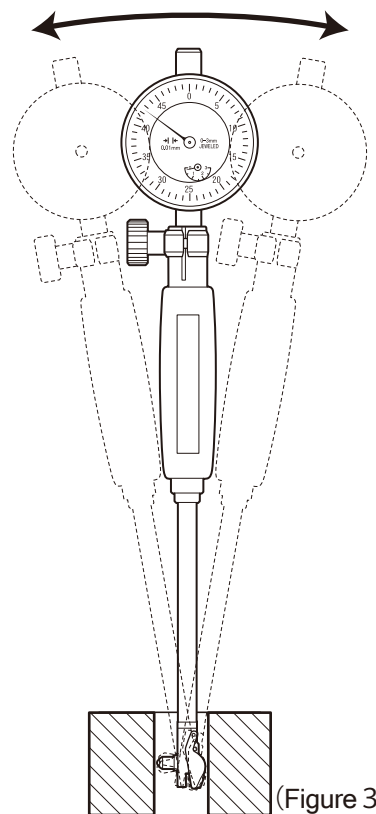show the maximum value to determine the measurement
reading.

This measurement will be the difference in diameter
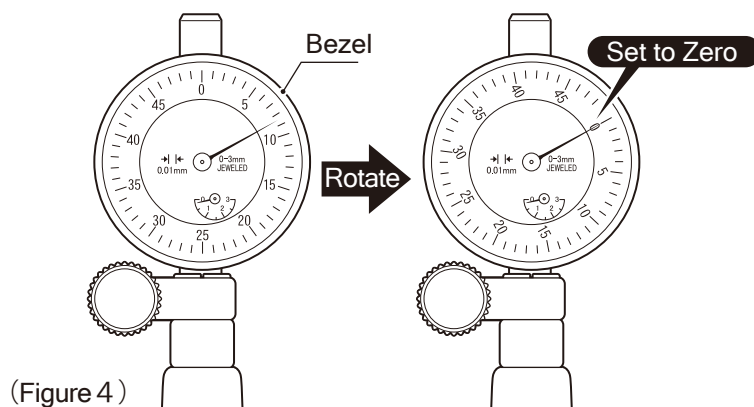between the part, and the reference Ring Gauge.
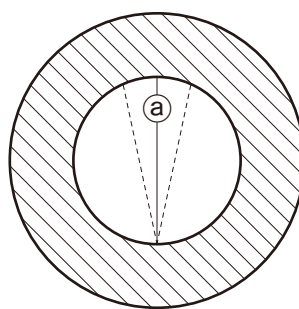
（Figure 1 ）

（Figure 2 ）

（Figure 3 ）

Bezel

Set to Zero

Rotate
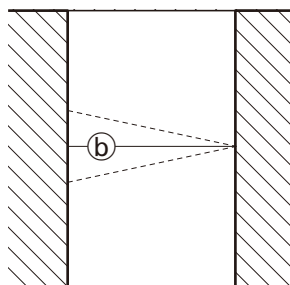
（Figure 4 ）

■ REPAIRS AND SERVICE

● If Gauge does not operate properly, or if you have any questions, please contact distributor or place of purchase.

● Please note, manufacturer is unable to respond to inquires or provide service directly. Please contact distributor or
place of purchase.