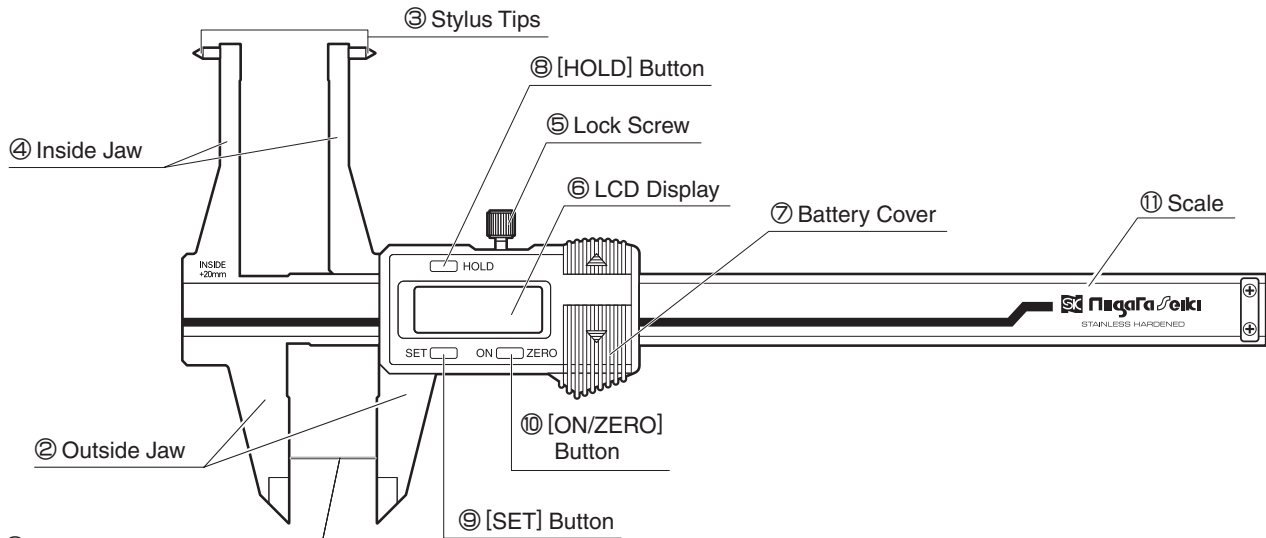


Thank you for purchasing the INSIDE "T" CALIPERS.

This product is a precision measurement tool designed specifically for point measurement of inside surfaces.

- For safe and proper use of this product, please read this instruction manual before use and follow the procedures described. Please keep manual where it is accessible to user for future reference.
- Keep this manual with the instrument if transferred or leased to a third party.
- For inquiries about this product, please contact dealer or Niigata Seiki at the address listed on the following page.

Part Identification and Description











- | | |
|---|---|
| <p>① Measuring Surface For Outside Measurements</p> <p>① Measuring Surface..... Outside measurements performed For Outside Measurements between these surfaces.</p> <p>② Outside Jaw..... For external measurements.</p> <p>③ Stylus Tip..... Applied to inside surfaces for measurement.</p> | <p>④ Inside Jaw..... For internal measurements.</p> <p>⑤ Lock Screw..... Locks the slide unit and LCD.</p> <p>⑥ LCD Display..... Digitally displays the measured value.</p> <p>⑦ Battery Cover..... Cover for Silver Oxide SR44 battery.</p> <p>⑧ [HOLD] Button..... Holds value on display.</p> <p>⑨ [SET] Button..... Switch to Preset Mode.</p> <p>⑩ [ON/ZERO] Button..... Power ON/OFF, will display preset value.</p> <p>⑪ Scale..... Measurement reference for LCD slide.</p> |
|---|---|

Safety Precautions Please Observe

Always follow the proper operating procedures in order to prevent harm to yourself or others, and to prevent damage to property.

 <p>Denotes a "prohibition": You MUST NOT do it.</p>	 <p>Denotes a "requirement": You MUST do it.</p>
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Caution  Indicates risk of **personal injury** or **property damage** if not followed.

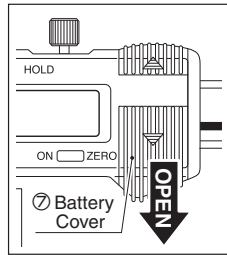
- | | |
|---|---|
| <ul style="list-style-type: none">  Read the instruction manual and follow the instructions. <ul style="list-style-type: none"> • Use of product other than as described in the manual may cause accident.  Use only for measuring. <ul style="list-style-type: none"> • Use for any purpose other than measuring may damage or wear the instrument. Improper use may also cause accident.  Handle with Care. <ul style="list-style-type: none"> • Do not drop or subject instrument to excessive force. Do not place under heavy objects. Improper handling may cause damage or poor accuracy. • Do not scratch instrument.  Avoid using in locations with high electric fields, such as near fluorescent lights or switching power supplies. <ul style="list-style-type: none"> • May cause erroneous reading to display on LCD. | <ul style="list-style-type: none">  Use and store only in environment meeting the following conditions. <ul style="list-style-type: none"> ● Dry location protected from rain, water, and oils. ● Location that does not become hot. ● Location protected from use by children and unauthorized people. <ul style="list-style-type: none"> • Use in places contrary to the above may cause damage to the product resulting in accident or injury.  Jaw Tips Are Sharp -- Handle With Care. <ul style="list-style-type: none"> • Careless handling may cause injury.  Do not disassemble or modify. <ul style="list-style-type: none"> • Doing so may cause accident or injury. Please contact distributor or place of purchase for service.  Do not write on instrument with electric engraver. <ul style="list-style-type: none"> • Do not engrave instrument or jaw, such as an ID number with engraver or electric pen. |
|---|---|

PREPARATION FOR USE

Preparations to be performed after purchase prior to first use.

- Please wipe off corrosion protectant with a soft, oiled cloth.
- Please insert batteries.

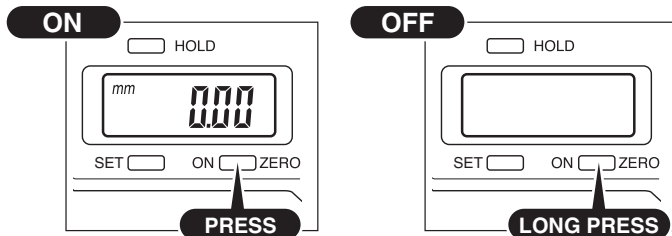
- ① Slide battery cover in direction of arrow.
- ② Insert battery with (+) side outward.
- ③ Replace battery cover.



※ Use one SR44 Battery.

POWER ON / OFF

- ① Press [ON/ZERO] button to turn on power.
- ② To turn off power, press and hold [ON/ZERO] button (approx 2 sec.) until power is off.



- With power on, pressing the [ON/ZERO] button will show the preset value.
- With power on, pressing [SET] button toggles the preset mode.
- Pressing the [HOLD] button will fix the value displayed on the LCD.
- Sliding the main scale will re-enable the display after it is shut off from the auto-display-off feature.

TROUBLE SHOOTING

- Q. Nothing is displayed, or the numbers are flashing.**
- A. The battery may be low, please replace battery with a new one.
- Q. The number on the LCD does not change, even as main slide is moved.**
- A. Please reset by removing battery for about 30sec., and then replacing.
- Q. Nothing happens when buttons are pressed.**
- A. Please make sure battery is inserted correctly.

CARE AND STORAGE WHEN NOT IN USE

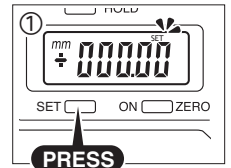
- After use, wipe with soft cloth and store with jaws slightly open.
If locked in closed position, slight temperature changes may cause expansion and excessive force which will result in poor accuracy.
- Store in supplied accessory case in a cool, dry location.
Avoid moisture and direct sunlight, keep secure from unauthorized personnel.

ORIGIN PRESET

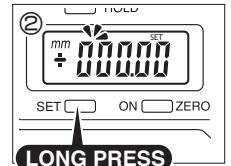
For internal measurements, a ring gauge calibration standard is required to preset the origin value.

(※ Ring gauge calibration standard is not included)

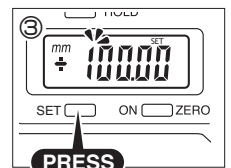
- ① Press the [SET] button until "SET" is displayed on LCD.



- ② With "SET" displayed, a long press on the [SET] button switches selected character position to modify (indicated by character blinking.)

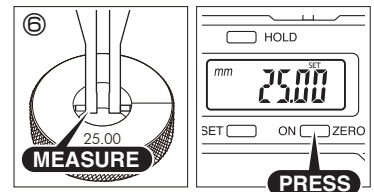


- ③ Short press of [SET] button will change the blinking number.



- ④ Repeat steps ②, ③ above to set the preset value to the size of the calibration standard.
- ⑤ To return blinking "SET" display, press the [SET] button again.

- ⑥ In measurement mode ("SET" not displayed on LCD,) confirm the setting by measuring the calibration standard with the calipers.



※ Please use calibration standard to check accuracy regularly.

SERVICE

- If Instrument is not working 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.

SPECIFICATIONS

Model No.	D-150IT	Operating Temperature Range	0°C~40°C
Resolution	0.01mm	Storage Temperature Range	-10°C~60°C
Measurement Range	External : 0-150mm	Weight	Approx. 230g
	Internal : 20-170mm		
Instrument Error	External : ±0.05mm	Power	Silver Oxide Battery SR44 · 1.55V
	Internal : ±0.10mm		
Auto Display Off	Approx. 5 min.	Battery Life	Approx. 1 year for normal usage
Maximum Response Speed	1.5m/s	Accessories	Silver Oxide Battery SR44 · 1.55V (For test) x1

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