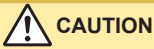


Connection Method

Inspection Before Use

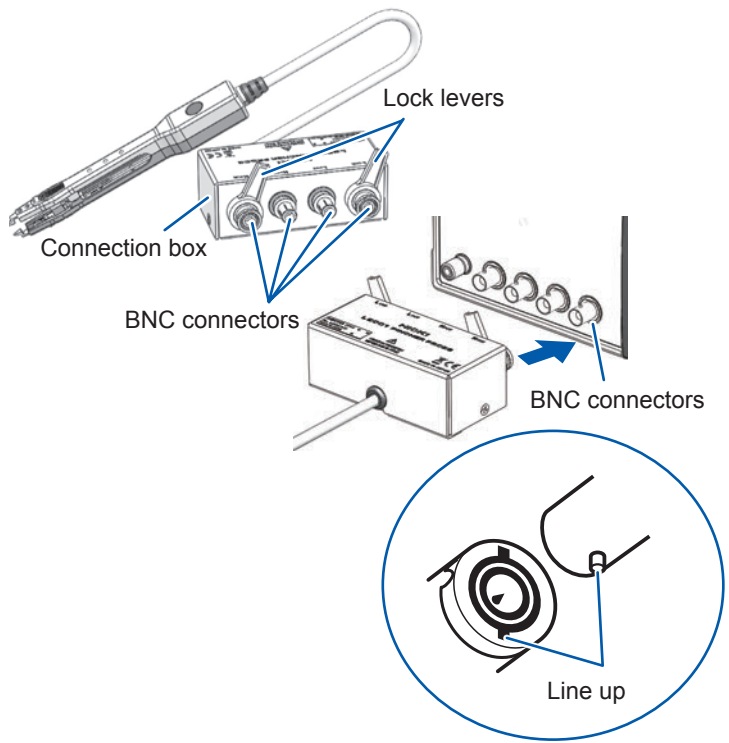
Before using the device, verify that it operates normally to ensure that no damage occurred during storage or shipping. If you find any damage, contact your authorized Hioki distributor or reseller.



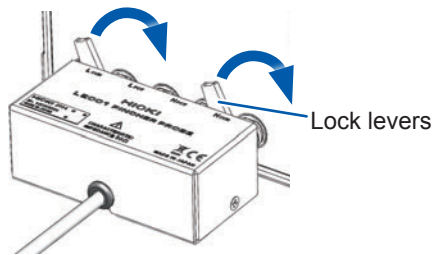
- When disconnecting the BNC connector, be sure to release the lock before pulling off the connector. Forcibly pulling the connector without releasing the lock, can damage the BNC connector.

Connect the Pincher Probe's connection box to the measuring instrument.

- 1 Align the connection box's BNC connectors with the measuring instrument's BNC connectors and insert.



- 2 Twist the lock levers to secure the connection box to the measuring instrument.



Correction Method

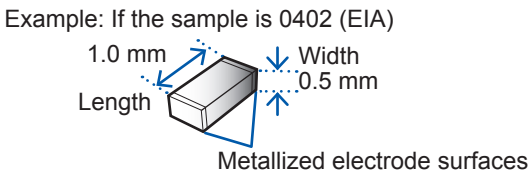
Open correction and short correction are performed in order to increase measurement precision. The correction method varies with the measuring instrument with which the probe is being used. Refer to the instruction manual that came with the instrument.

IMPORTANT When using a measuring instrument that can perform cable length correction, set the cable length to 1 m.

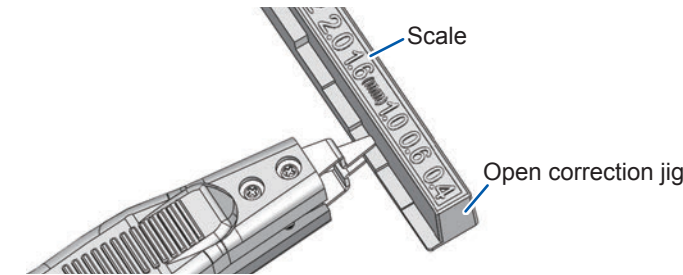
Open Correction

You will need: Open correction jig

- 1 Check the length of the sample being measured.



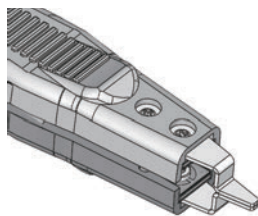
- 2 Select the position on the open correction jig whose label corresponds to the length of the sample being measured, insert the tips of the pincher arms as far as they will go, and squeeze the arms together.



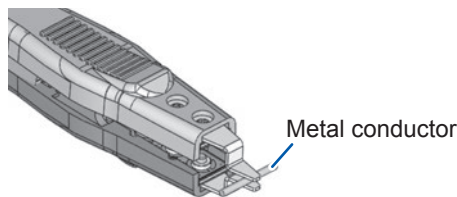
- 3 Perform correction with the measuring instrument.

Short Correction

- 1 Squeeze the pincher arms together so that the tips are shorted.

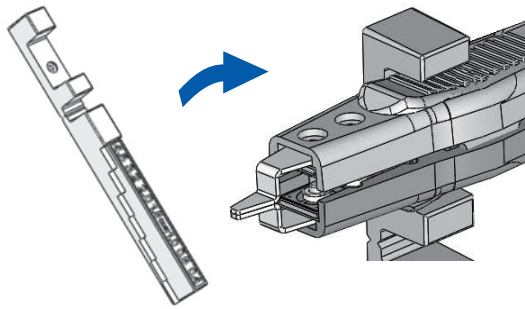


Measure an impedance before performing short correction. If the measured value is comparatively unstable, perform the following method.

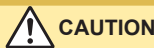


To ensure contact stability, hold a metal conductor with a thickness of 0.3 mm or more between the contact tips.

- 2 Perform correction with the measuring instrument. Place the C-shaped part of the open correction jig around the pincher arms to hold the tips together as necessary.

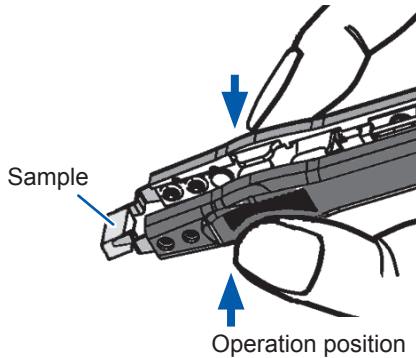


Measurement Method



- If using the L2001 or L2001-01 in combination with the DC Bias Voltage Unit 9268-10 or 9268, respectively, do not short-circuit the contact tips of the device with DC voltage (DC bias) applied. Doing so will cause the device or the instrument to which the device is connected to be damaged.
- To prevent damage to the device, do not subject the tips of the pincher arms to mechanical shock.

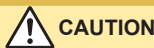
Squeeze the pincher arms together around the sample and read the measured value.



IMPORTANT

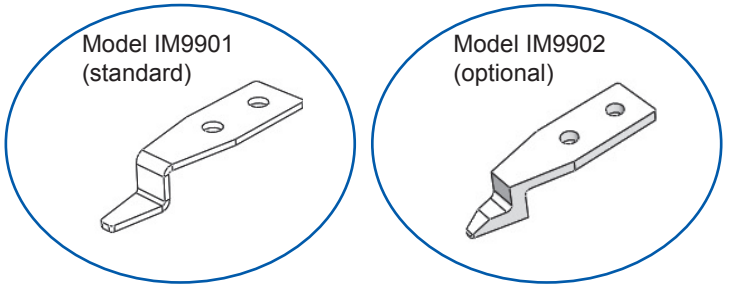
- Apply an appropriate amount of force at the position shown in the figure to squeeze the pincher arms around the sample. The contact resistance value will vary with the amount of force applied. The effect of contact resistance is particularly pronounced when measuring low-impedance elements or performing short correction.
- Clean the tips of the pincher arms and the surface of the sample before performing short correction or making a measurement. The presence of dirt could result in poor contact, making accurate measurement impossible.
- It is recommended to use guarding when performing open correction and when measuring high-impedance elements as those operations are particularly susceptible to the effects of external induced noise and stray capacitance. Guarding methods include making measurements on a metal plate that has been connected to the guard terminals. For more information, refer to the instruction manual that came with the measuring instrument being used.

Contact Tip Replacement Method

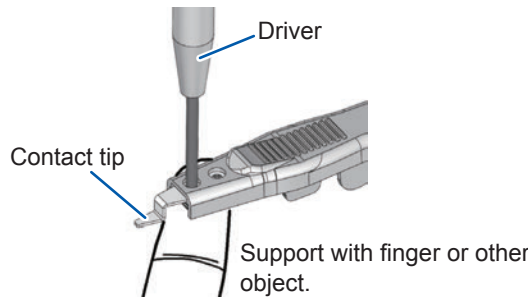


- Attach the tips with an appropriate amount of tightening torque. Use of an inappropriate tightening torque may damage the probe or cause poor contact.
- When turning the screws with a screwdriver, support the arm from the bottom so as to prevent an excessive amount of force from being applied to the base.

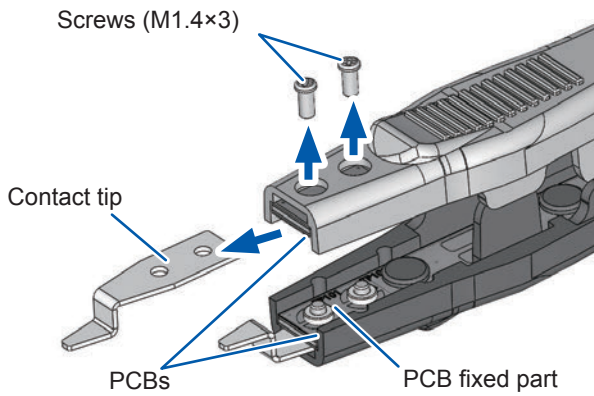
When installing the optional IM9902 tips or when wear or other factors have rendered the contact tips unusable, they can be replaced using the following method:
You will need: No. 0 precision Phillips head screwdriver, replacement contact tips



- 1 Loosen and remove the two screws with the screwdriver.



- 2 Pull each contact tip in the direction indicated by the arrow to remove it.



- 3 Attach the replacement contact tips. When you do so, align the holes in each tip with the holes in the corresponding pincher arm.
- 4 Align the position of the top and bottom tips.
- 5 Tighten the two screws with the screwdriver. Tightening torque: 0.06 N·m