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5430 - ALL

INSTRUCTION MANUAL

Warranty

WPI (World Precision Instruments, Inc.) warrants to the original purchaser that this equipment, including its components and parts, shall be free from defects in material and workmanship for a period of 30 days from the date of receipt. WPI's obligation under this warranty shall be limited to repair or replacement, at WPI's option, of the equipment or defective components or parts upon receipt thereof f.o.b. WPI, Sarasota, Florida U.S.A. Return of a repaired instrument shall be f.o.b. Sarasota.

The above warranty is contingent upon normal usage and does not cover products which have been modified without WPI's approval or which have been subjected to unusual physical or electrical stress or on which the original identification marks have been removed or altered. The above warranty will not apply if adjustment, repair or parts replacement is required because of accident, neglect, misuse, failure of electric power, air conditioning, humidity control, or causes other than normal and ordinary usage.

To the extent that any of its equipment is furnished by a manufacturer other than WPI, the foregoing warranty shall be applicable only to the extent of the warranty furnished by such other manufacturer. This warranty will not apply to appearance terms, such as knobs, handles, dials or the like.

WPI makes no warranty of any kind, express or implied or statutory, including without limitation any warranties of merchantability and/or fitness for a particular purpose. WPI shall not be liable for any damages, whether direct, indirect, special or consequential arising from a failure of this product to operate in the manner desired by the user. WPI shall not be liable for any damage to data or property that may be caused directly or indirectly by use of this product.

Claims and Returns

• Inspect all shipments upon receipt. Missing cartons or obvious damage to cartons should be noted on the delivery receipt before signing. Concealed loss or damage should be reported at once to the carrier and an inspection requested. All claims for shortage or damage must be made within 10 days after receipt of shipment. Claims for lost shipments must be made within 30 days of invoice or other notification of shipment.

Please save damaged or pilfered cartons until claim settles. In some instances, photographic documentation may be required. Some items are time sensitive; WPI assumes no extended warranty or any liability for use beyond the date specified on the container.

• WPI cannot be held responsible for items damaged in shipment en route to us. Please enclose merchandise in its original shipping container to avoid damage from handling. We recommend that you insure merchandise when shipping. The customer is responsible for paying shipping expenses including adequate insurance on all items returned.

• Do not return any goods to WPI without obtaining prior approval and instructions (RMA#) from our returns department. Goods returned unauthorized or by collect freight may be refused. The RMA# must be clearly displayed on the outside of the box, or the package will not be accepted. Please contact the RMA department for a request form.

• Goods returned for repair must be reasonably clean and free of hazardous materials.

• A handling fee is charged for goods returned for exchange or credit. This fee may add up to 25% of the sale price depending on the condition of the item. Goods ordered in error are also subject to the handling fee.

• Equipment which was built as a special order cannot be returned.

• Always refer to the RMA# when contacting WPI to obtain a status of your returned item.

• For any other issues regarding a claim or return, please contact the RMA department

Warning: This equipment is not designed or intended for use on humans.

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5430 - ALL

PicoNozzle Kit (version 2)

Serial No. _____



www.wpiinc.com

032416



INTRODUCTION

The PicoNozzle holds a microrinjection pipette during microinjection. It features good stability, minimum dead volume for fast response and allows pipettes to be changed quickly and easily.

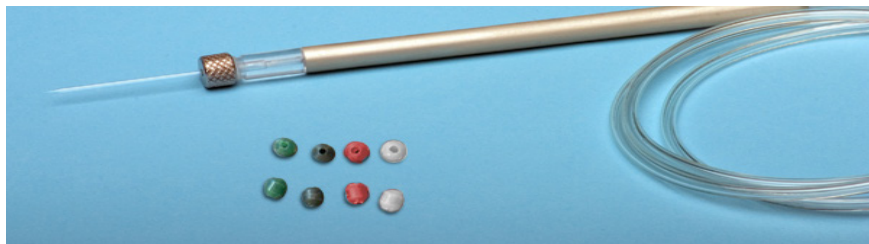


Fig. 1—PicoNozzle Kit (Kit include two sets like the one shown.)

Parts List

The 5430-ALL PicoNozzle Kit includes:

- (2) PicoNozzle tip assemblies (Handle diameter is 6.25 x 100mm.)
- (2) 5' tubing
- (4) 1.0mm pipette gaskets (green)
- (4) 1.2mm pipette gaskets (black)
- (4) 1.5mm pipette gaskets (red)
- (4) 1.65mm pipette gaskets (white)

NOTE: Individual parts are not sold separately.

OPERATING INSTRUCTIONS

Assemble the PicoNozzle Tip Assembly

Assemble the unit before use. The image below shows an exploded view of the tip assembly.

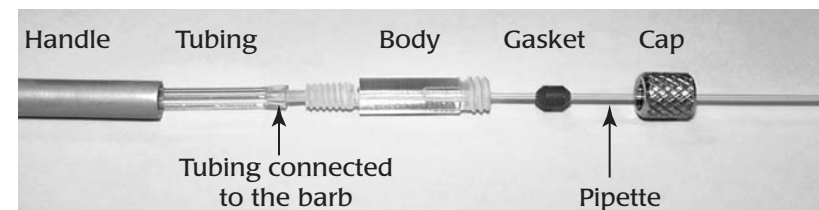


Fig. 2—Exploded view of tip assembly

1. Slide the superthane tubing through the handle and connect it to the barb of the body.



CAUTION: Do NOT damage the barb when attaching or removing the tubing. Some warming of the tubing or water lubrication may be helpful.

2. Before inserting the pipette, place a gasket of the correct size in the cap. (Green for 1.0mm, black for 1.2mm, blue for 1.5mm and red for 1.65mm)
3. Attach the other end of the tubing to the injection pressure source. To attach it to the pressure port of WPI's PV830 series PicoPumps (which have barbed fittings) push the tubing directly onto the output port.

TIP: Long lengths of tubing tend to decrease the time response of the system due to a loading effect of the increased volume. For fastest possible response, keep the tubing length (and diameter) to the smallest possible value.

4. Mount a glass micropipette into the holder before mounting the holder onto the handle. To mount a micropipette:
 - Loosen the holder's screw cap.
 - Insert the pulled capillary glass into the holder.
 - Tighten the screw cap firmly. The cap squeezes the rubber gasket, holding the glass micropipette.
 - Test that the micropipette is firmly held by pulling on it.



WARNING: DANGER OF INJURY EXISTS IF THE PIPETTE IS NOT SECURED PROPERLY. HIGH PRESSURE CAN CAUSE THE PIPETTE TO EJECT AT EXTREME VELOCITIES. BE SURE THE HOLDER SCREW CAP IS FIRMLY TIGHTENED. NEVER DIRECT THE PIPETTE TOWARD YOURSELF OR ANOTHER PERSON.