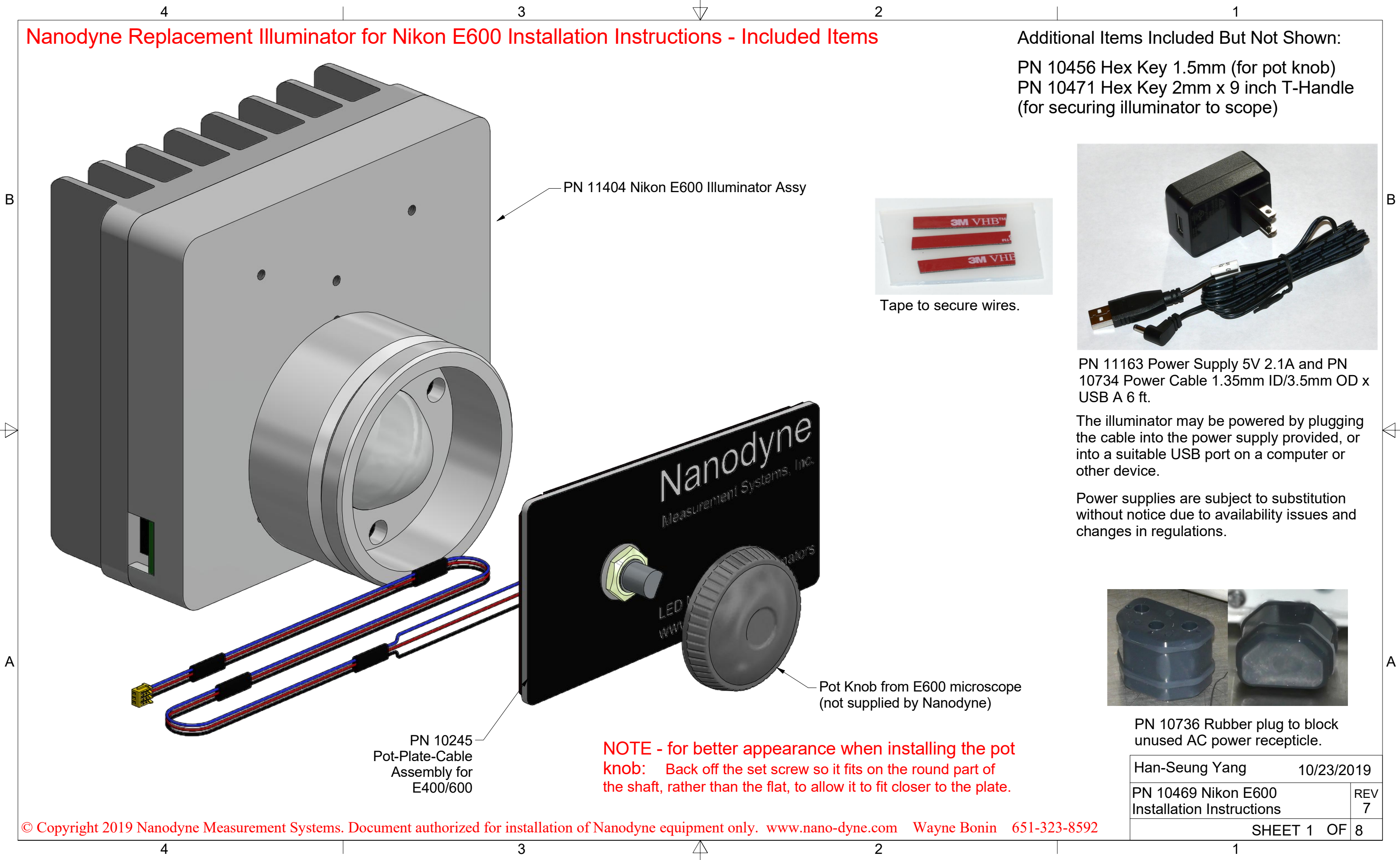


# Nanodyne Replacement Illuminator for Nikon E600 Installation Instructions - Included Items

Additional Items Included But Not Shown:  
 PN 10456 Hex Key 1.5mm (for pot knob)  
 PN 10471 Hex Key 2mm x 9 inch T-Handle  
 (for securing illuminator to scope)



PN 11404 Nikon E600 Illuminator Assy



Tape to secure wires.



PN 11163 Power Supply 5V 2.1A and PN 10734 Power Cable 1.35mm ID/3.5mm OD x USB A 6 ft.

The illuminator may be powered by plugging the cable into the power supply provided, or into a suitable USB port on a computer or other device.

Power supplies are subject to substitution without notice due to availability issues and changes in regulations.



PN 10736 Rubber plug to block unused AC power receptacle.

PN 10245 Pot-Plate-Cable Assembly for E400/600

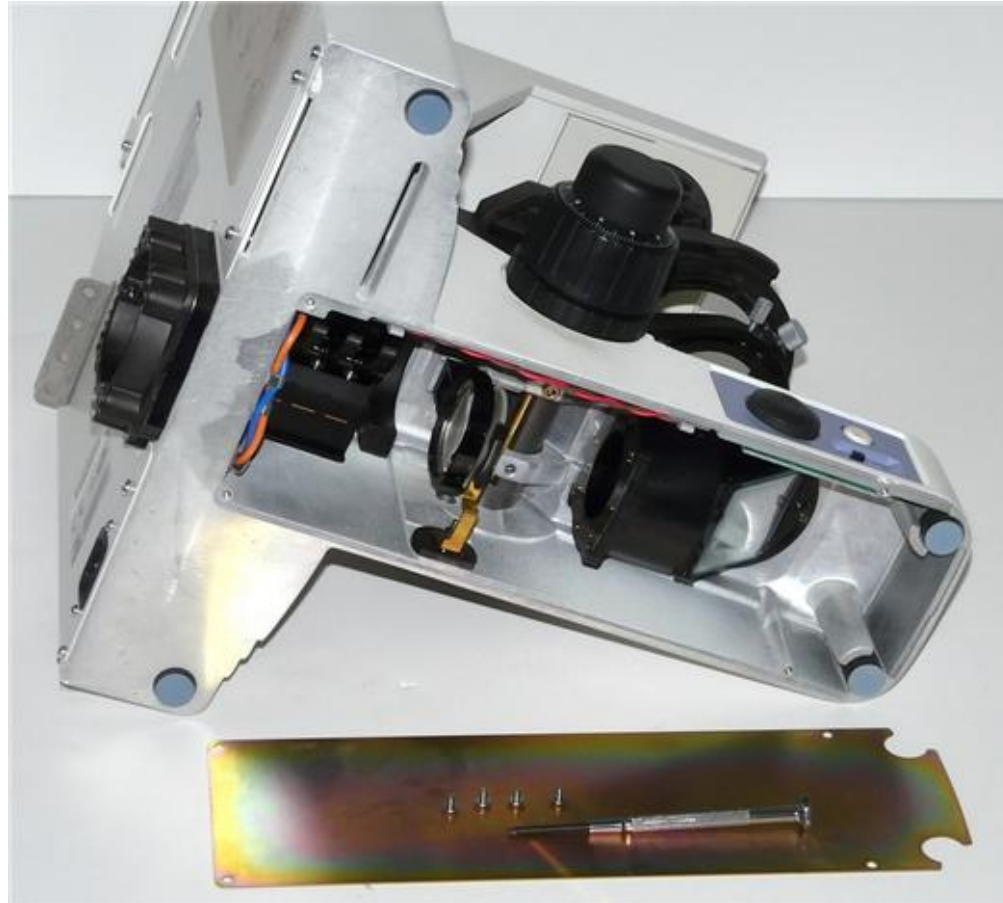
Pot Knob from E600 microscope (not supplied by Nanodyne)

**NOTE - for better appearance when installing the pot knob:** Back off the set screw so it fits on the round part of the shaft, rather than the flat, to allow it to fit closer to the plate.

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# Nanodyne Replacement Illuminator for Nikon E600 Installation Instructions: Step 1. Remove Old Illuminator, Covers, AC Power Connections

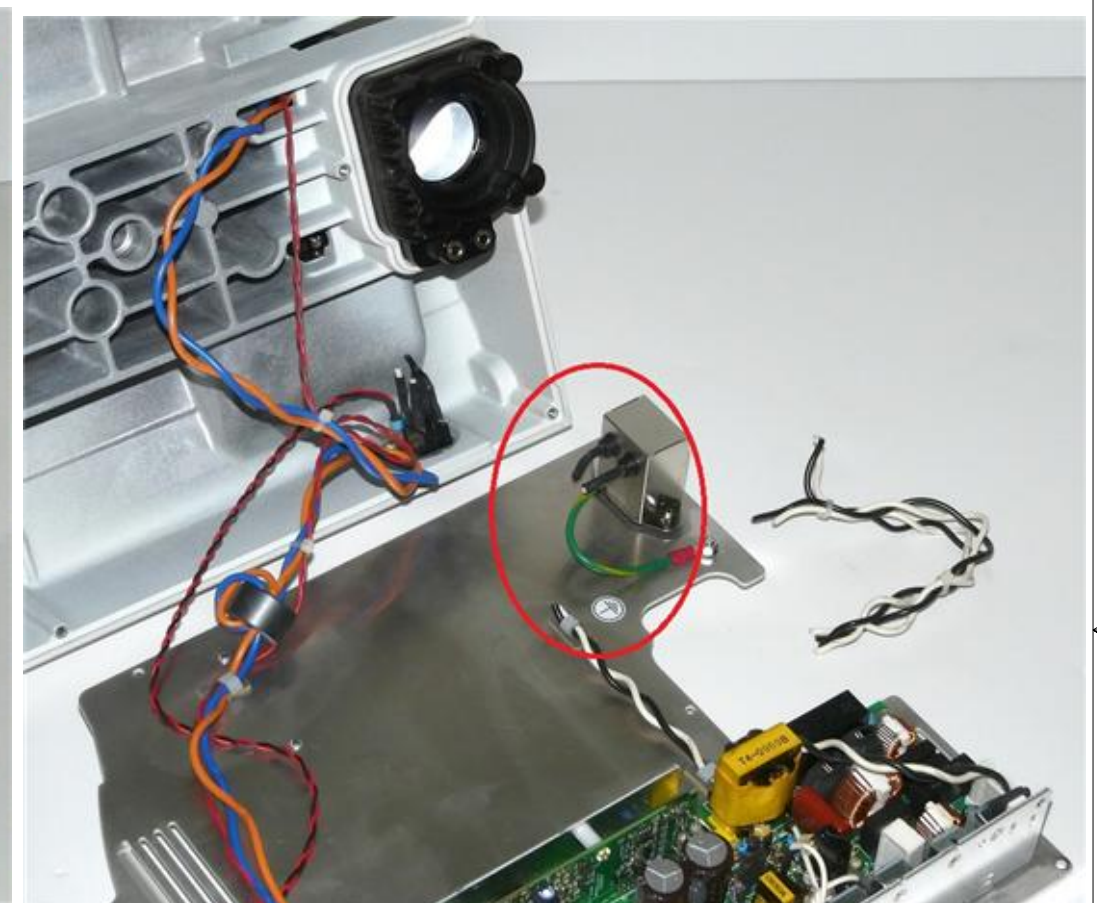
**(1):** Remove the original illuminator. It is hold by a set screw. Loosen the set screw with the 2mm hex key provided and pull the illuminator out.



**(2):** Remove the bottom plate. It is held by 4 screws.



**(3):** Remove the back cover. It is held by 7 screws (at the red circles in the photo above).



**(4):** Back cover removed. AC power disconnected from AC power receptacle.

**Electrical Safety:** The new Nanodyne illuminator has its own power supply. The original built in power supply is now obsolete. It and all the original wiring may be completely removed.

At a minimum, disconnect the AC input power as shown in **(4)** so that there is no possibility of an electrical hazard if power is connected to the obsolete AC receptacle.

Also use the rubber blocking plug we supply (shown on the last sheet) to prevent connecting to the AC receptacle.

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Nanodyne Replacement Illuminator for Nikon E600 Installation Instructions: Step 2. Remove Old Adjustment Pot Plate



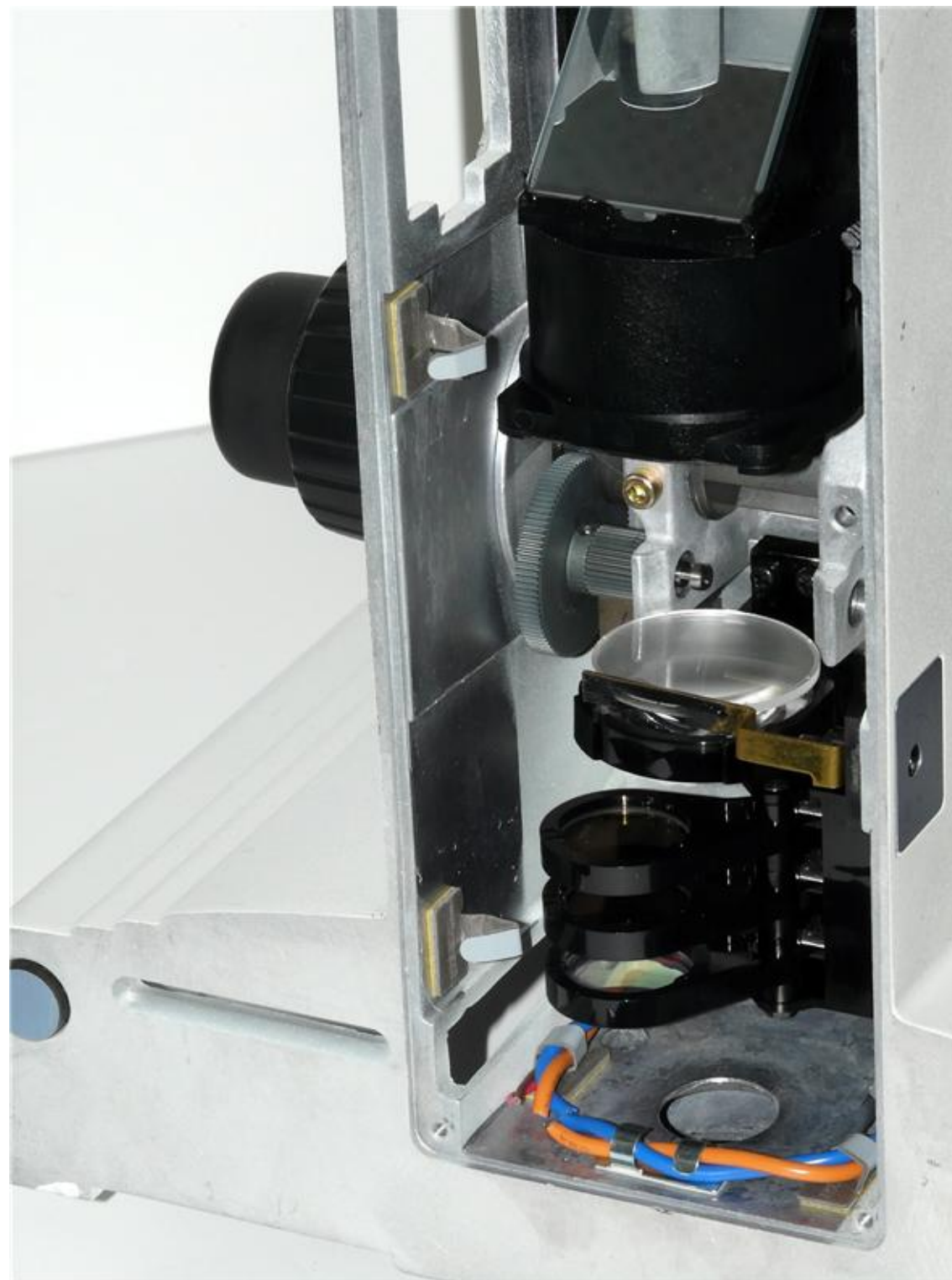
(1): Remove the potentiometer knob from the microscope using the 1.5mm hex key provided. The knob will be re-used for the new illuminator.



(2): Remove the plastic potentiometer plate as shown above. Push it out from the inside. Use a small screwdriver or similar tool if needed.

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Nanodyne Replacement Illuminator for Nikon E600 Installation Instructions: Step 3. Remove Old Adjustment Pot Plate Wiring



(1): Disconnect and remove the wires that go from the old pot plate to the old power supply.

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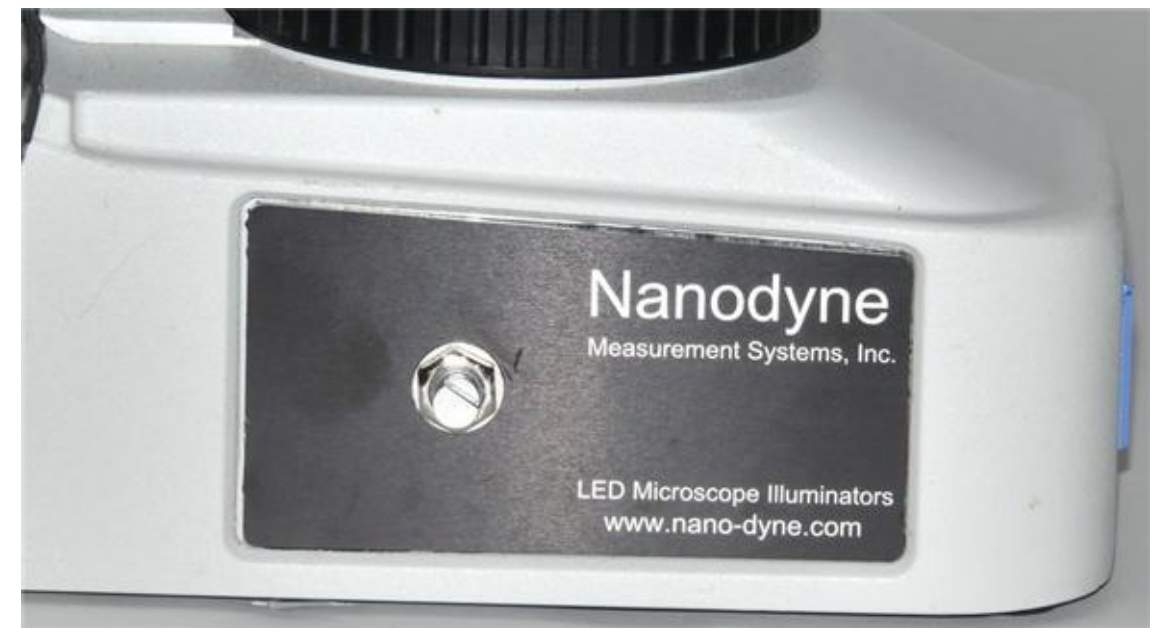
Nanodyne Replacement Illuminator for Nikon E600 Installation Instructions: Step 4. Install New Adjustment Pot Plate, Re-install Pot Knob



(1): Excessive glue residue left from the old plate. Remove before installing new plate.



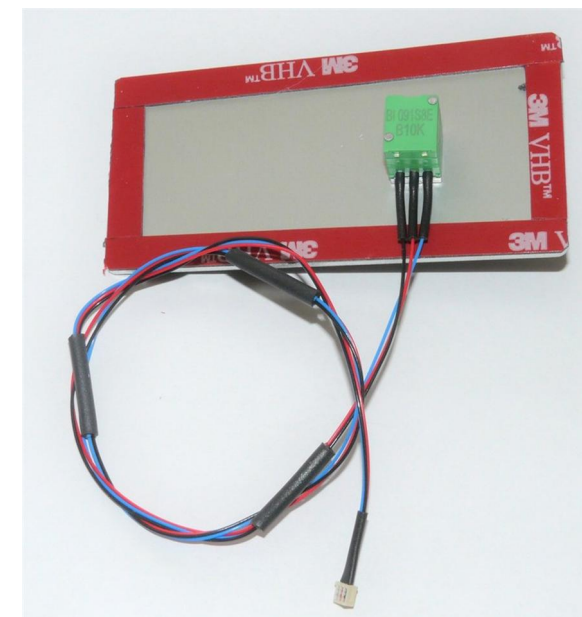
(3): New pot plate - front side.



(5): Press the new pot plate into place as shown. Press firmly to ensure it is well attached.



(2): Ready to install new plate.



(4): New pot plate - back side. Remove the red release film from the tape. The tape is very sticky. You might need a sharp tweezer to get the release film off.

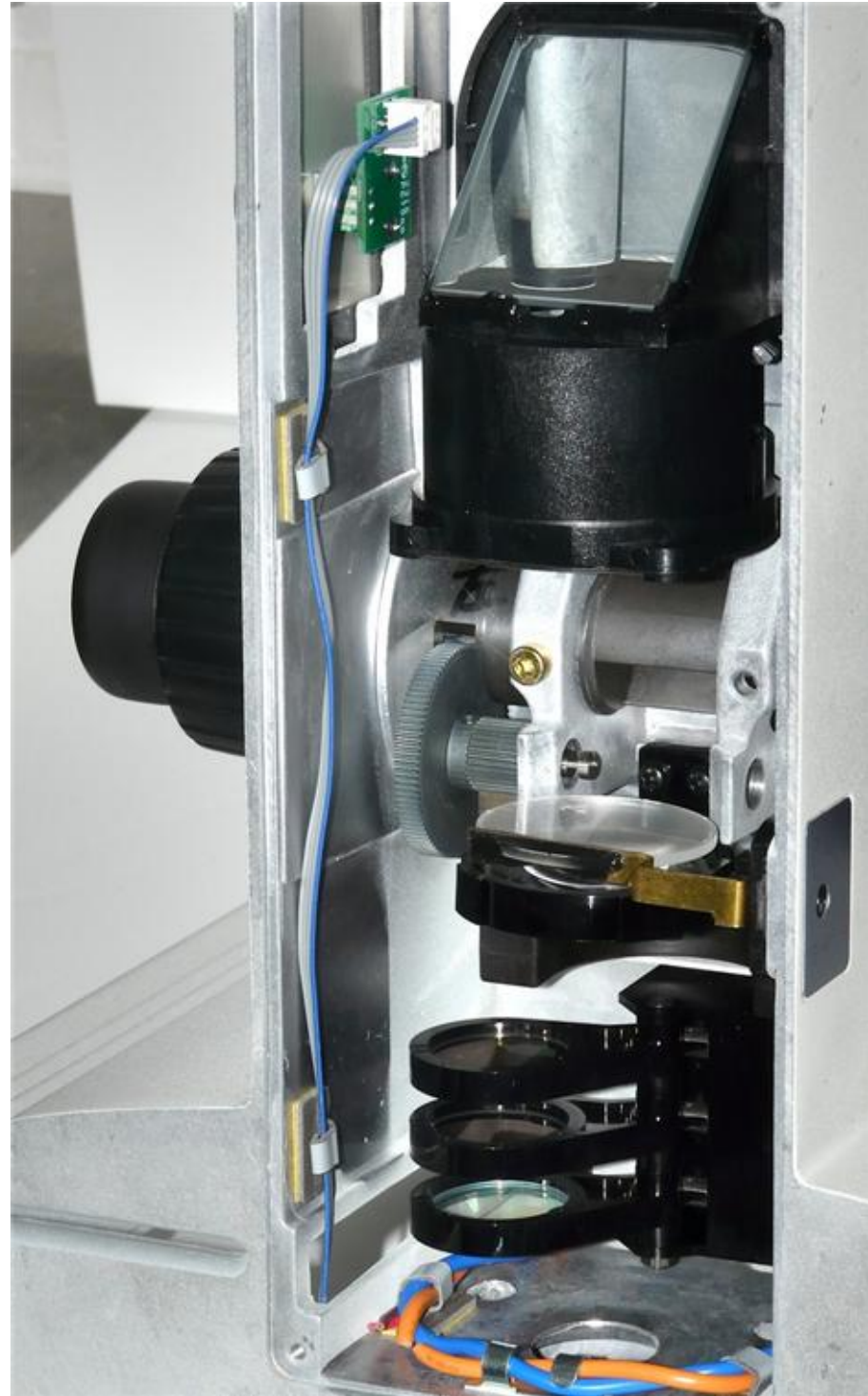


(6): Put the original knob on the new potentiometer shaft. Tighten with the 1.5mm hex key provided.

For better appearance, back off the set screw so it fits on the round part of the shaft, rather than the flat, for a closer fit to the plate.

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Nanodyne Replacement Illuminator for Nikon E600 Installation Instructions: Step 5. Route Pot Cable and Install New Illuminator



(1): Route the new pot cable to the back of the microscope as shown. Use the original clips to secure it like the old one.



(2): The new illuminator fits just like the old one. Secure it by tightening the set screw with the 2mm hex key provided.



(3): Connect the pot cable to the socket on the bottom of the illuminator.

Detailed instructions are on the next sheet.

**NOTE THAT THESE PHOTOS SHOWS AN OLD STYLE POT CABLE.**

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## Nanodyne Replacement Illuminator for Nikon E600 Installation Instructions: Step 6. Pot Cable Connection Details

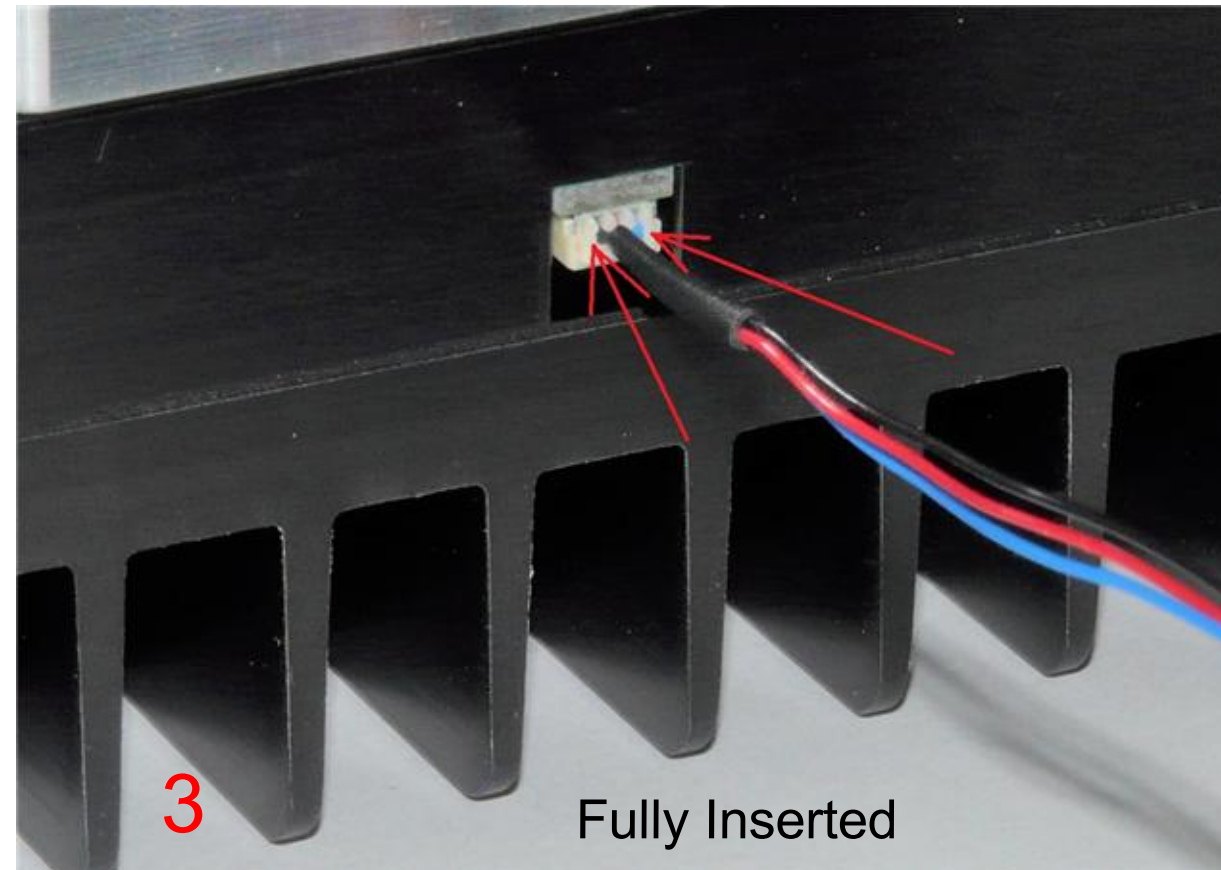
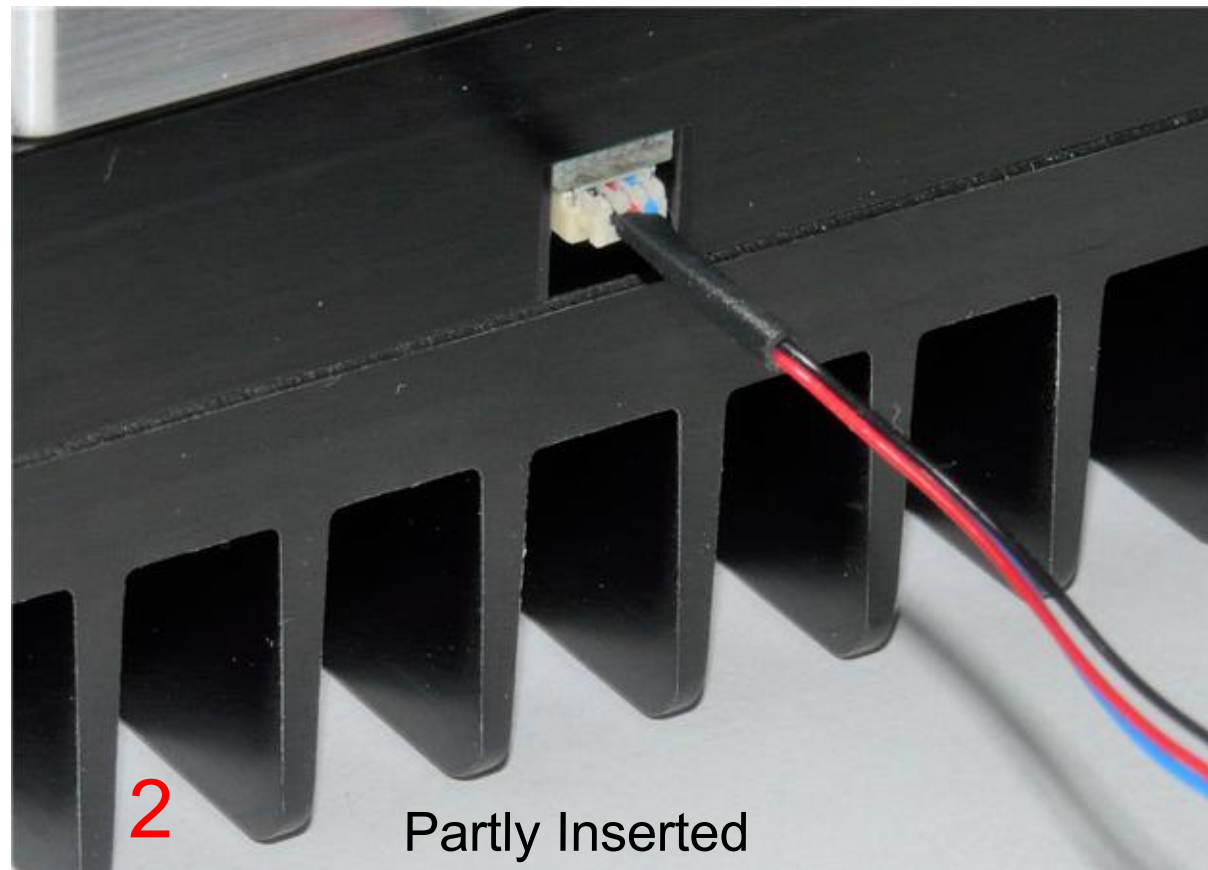
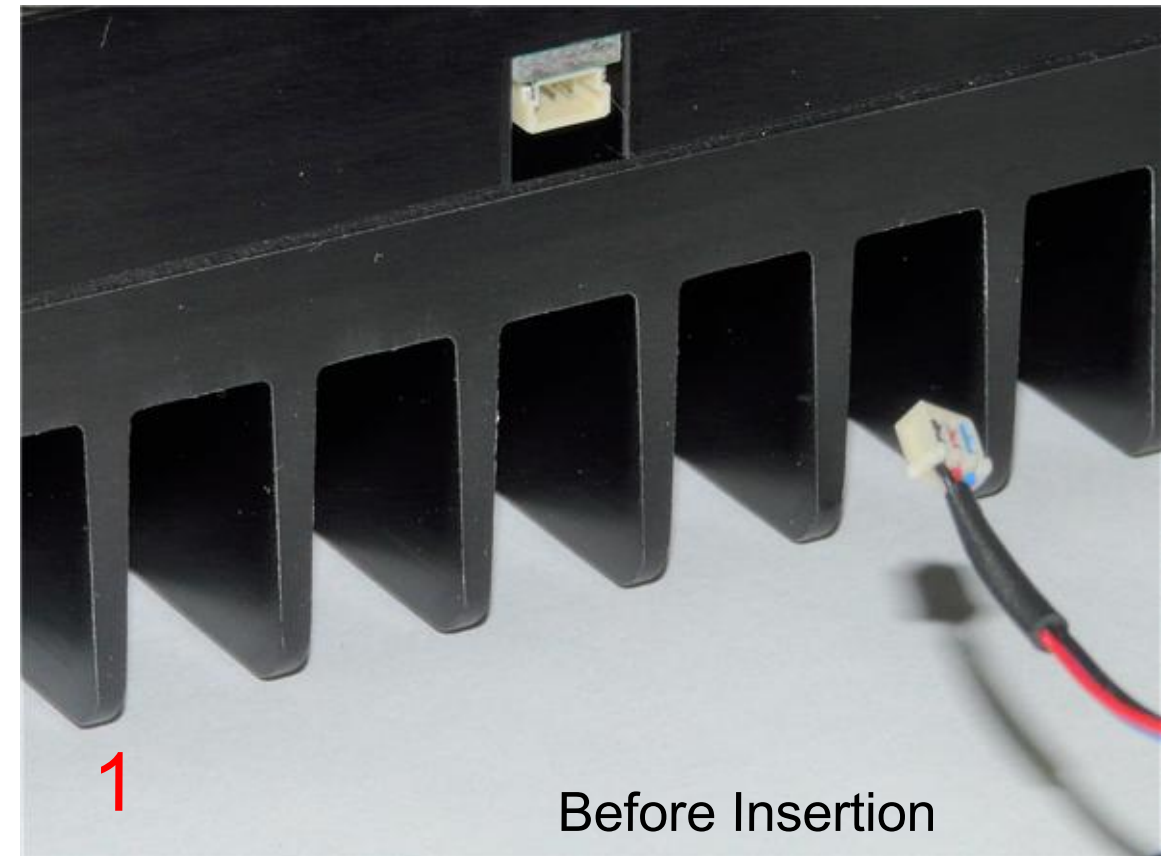
Connect the plug at the end of the Pot Cable Assembly to the mating socket of the illuminator, as shown in the pictures on this page. NOTE THAT THE PLUG IS KEYED TO ONLY GO INTO THE SOCKET ONE WAY, AS SHOWN.

Partially insert the plug into the mating socket of the illuminator by holding the wire next to the plug with your finger (photo 2).

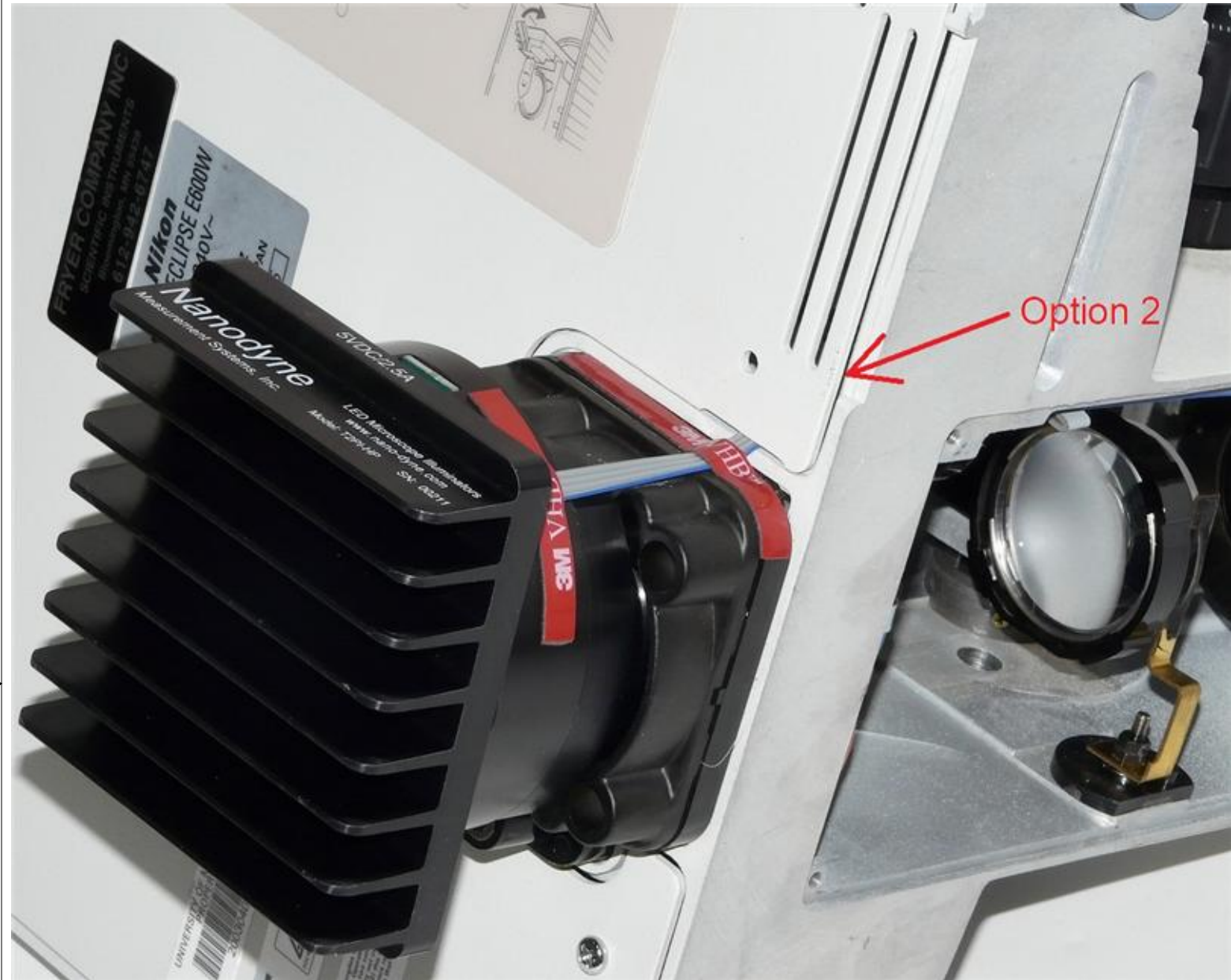
Use your fingernails, if you have them, or tools like a tiny screwdriver or tweezers pushing on the side of the plug to fully insert it (photo 3).

The socket cannot be fully engaged by pushing on the wires, as the wires would just collapse.

To disconnect it if needed, pull the wire straight out by firmly gripping the black heat shrink tubing.



Nanodyne Replacement Illuminator for Nikon E600 Installation Instructions: Step 7. Secure Pot Cable, install Covers, Block AC Receptacle



(1) **Back Cover:** There are two ways to run the cable out the back of the microscope. We recommend filing a small notch in the cover so the cable can exit as shown below.

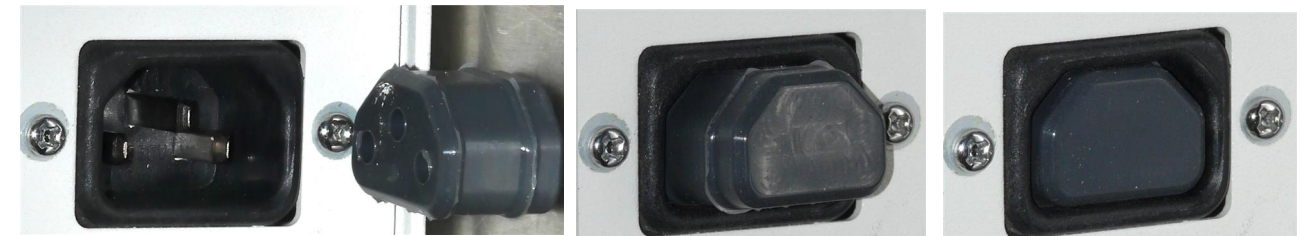
If you don't want to file the cover, the cable can be run out under the bottom of the cover through the existing recess on the microscope casting (see arrow in above photo).

We prefer Option 1 for its neater installation. Secure the cable outside the microscope as shown in the photo. Any excess length can be taken up by looping it over itself and securing it to the inside of the microscope with the red tape.

Note that the photos show an older version of the pot cable. The illuminator is also an older unit. The current one is shown on sheet 1. They both mount the same on the microscope.



(2) After the pot cable is secured, replace the back and bottom covers.



(3) If not yet done, install the rubber blocking plug in the AC receptacle.

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