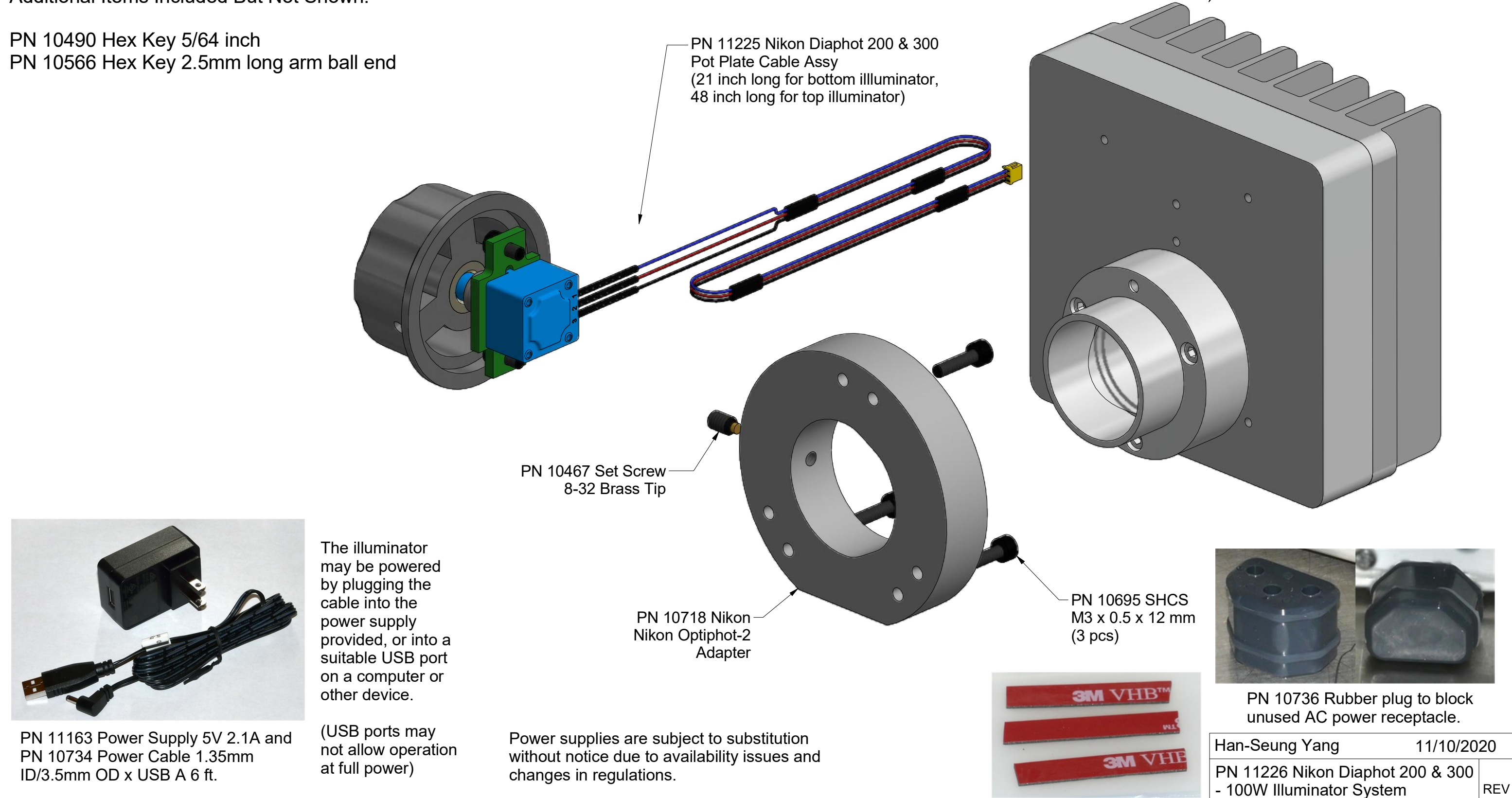


Nanodyne Replacement Microscope Illuminator for Nikon Diaphot 200/300 100W Installation Instructions: Included Items

Additional Items Included But Not Shown:

- PN 10490 Hex Key 5/64 inch
- PN 10566 Hex Key 2.5mm long arm ball end



Han-Seung Yang		11/10/2020	
PN 11226 Nikon Diaphot 200 & 300 - 100W Illuminator System Installation Instruction			REV 5
SHEET 1		OF	7





(1) Loosen the screw holding the lamp cover.

(2) Lift the cover off the lamp housing.

(3) Remove the 3 screws holding the lamp housing to the microscope with the 2.5mm hex key provided.

We are assuming the lamp housing is attached to the microscope with socket head cap screws. The screws were missing when we got the microscope. It is possible you may need a different tool to remove them.



(4) Remove Lamp housing from microscope.

After removing the 3 screws, the lamp housing can be pulled away, disconnecting the electrical contacts.

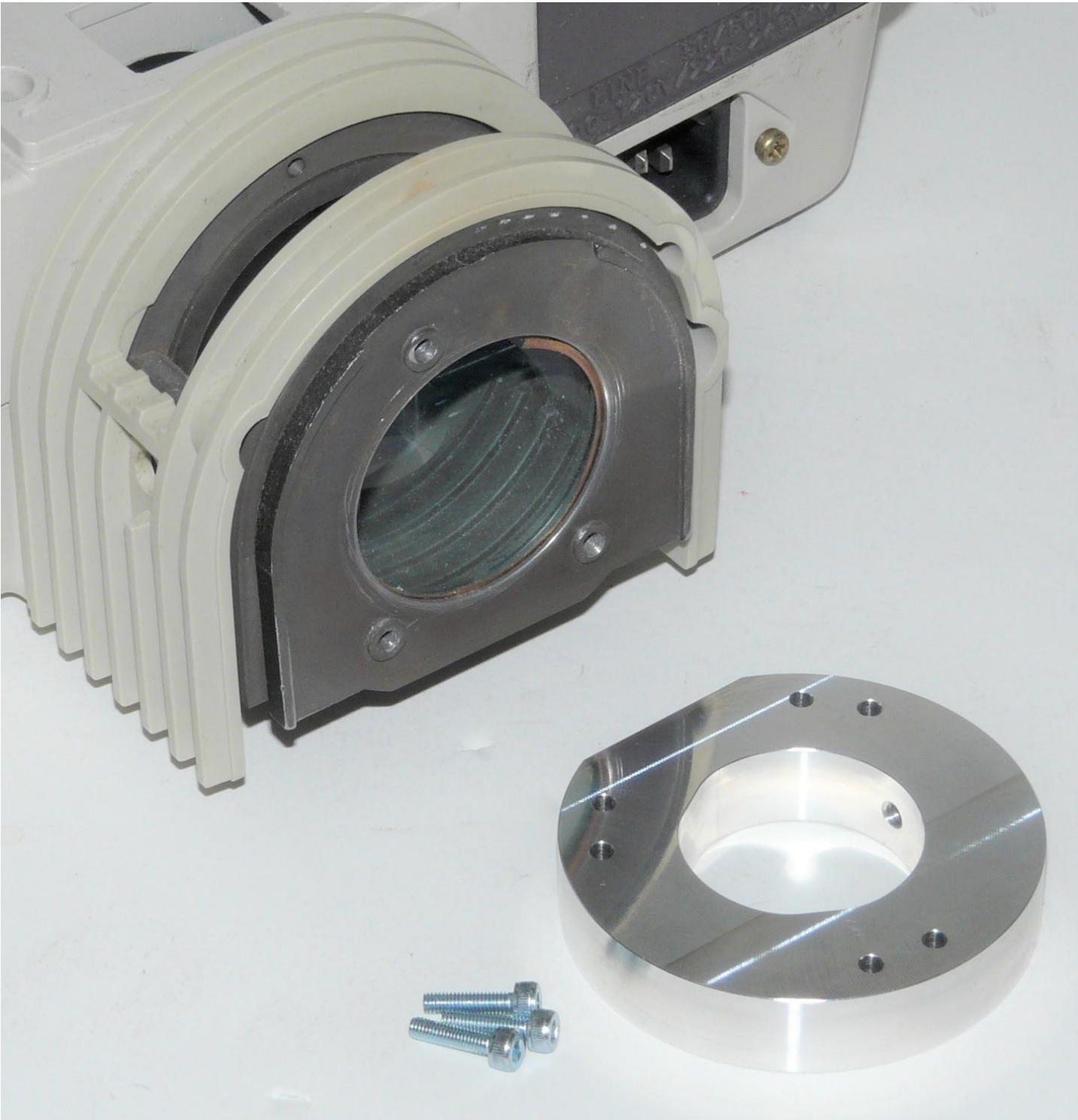
As we received it, the electrical contacts were hanging loose as shown. We assume your electrical contacts will be secured to the microscope.

In any case, these electrical contacts are not used by the new illuminator.

**NOTE 1.** Be sure your illuminator is as shown here. It may be colored black but should have the same shape. If it is different, be sure the mounting parts on the microscope are the same before proceeding. Contact us if there is any question.

**NOTE 2.** These and other photos show a Nikon Optiphot-2 microscope. The Diaphot 200/300 uses the same lamp housing.





(1) Adapter ring and mounting screws ready to install.



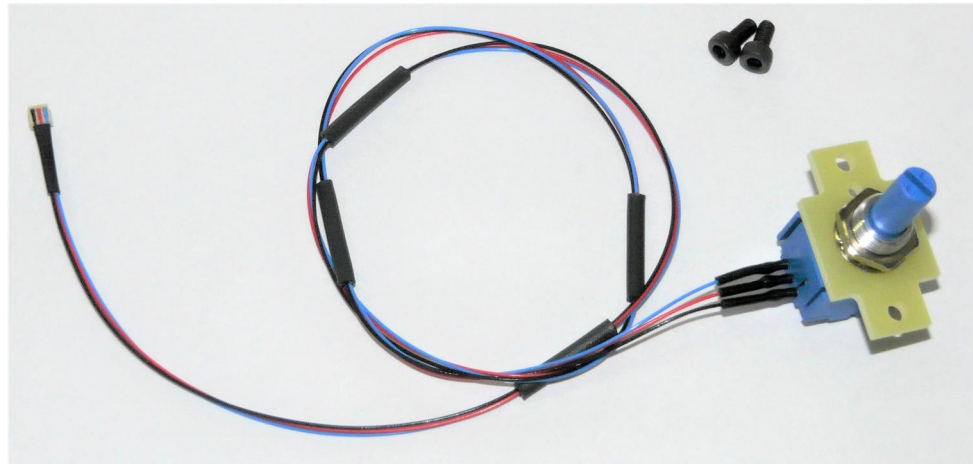
(2) Attach the adapter ring using the three 12mm long M3 screws, using the 2.5mm hex key.



Nanodyne Replacement Microscope Illuminator for Nikon Diaphot 200/300 100W Installation Instructions: Step 3. Remove Old Adjustment Pot, Replace With New Pot



Top mounted illuminator as shown above needs 40 inch pot cable. Bottom mounted illuminator needs 21 inch cable. Be sure the circled intensity control is not used to control an illuminator you are not replacing, before continuing. Contact us if you need another intensity control option.



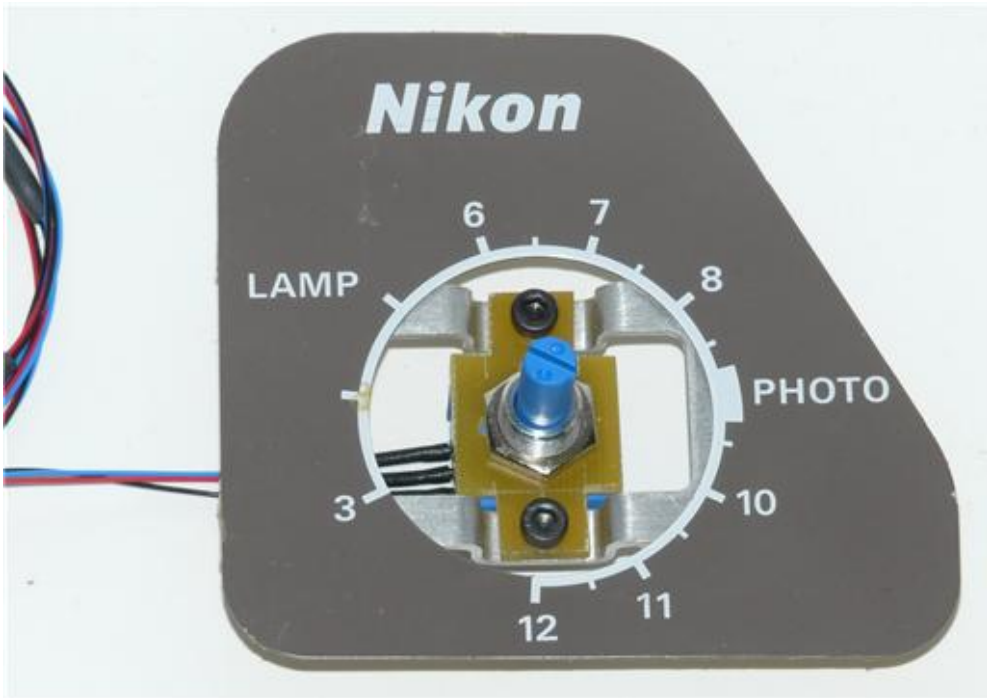
(1) New adjustment pot and mounting screws.



(2) Remove the knob, then remove the old pot.

If you remove the bottom cover from the microscope and run the pot cable out the back of the microscope you can leave the plate over the pot in place. (recommended procedure)

To avoid opening the microscope you can pry off the plate, run the pot cable out the side under the plate, and re-attach the plate with thick foam tape. The pot cable should be secured to the microscope with the red 3M VHB tape.



(3) Attach the new pot to the bracket that the old was attached to, using the 2 included screws.

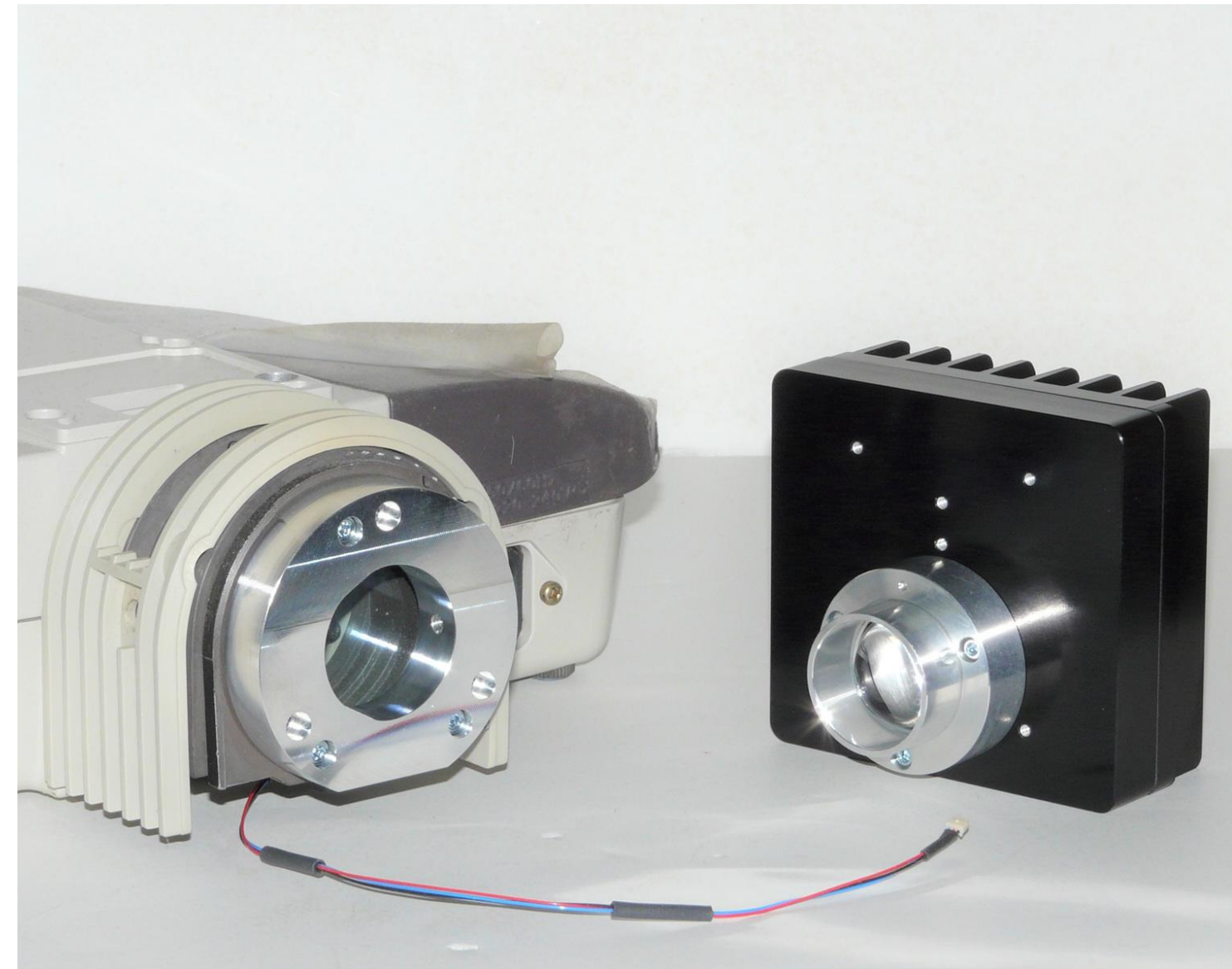


(4) Attach the new knob provided, using a small flat blade screwdriver

Route the pot cable to the back of the microscope so it can be connected to the illuminator when that is installed.

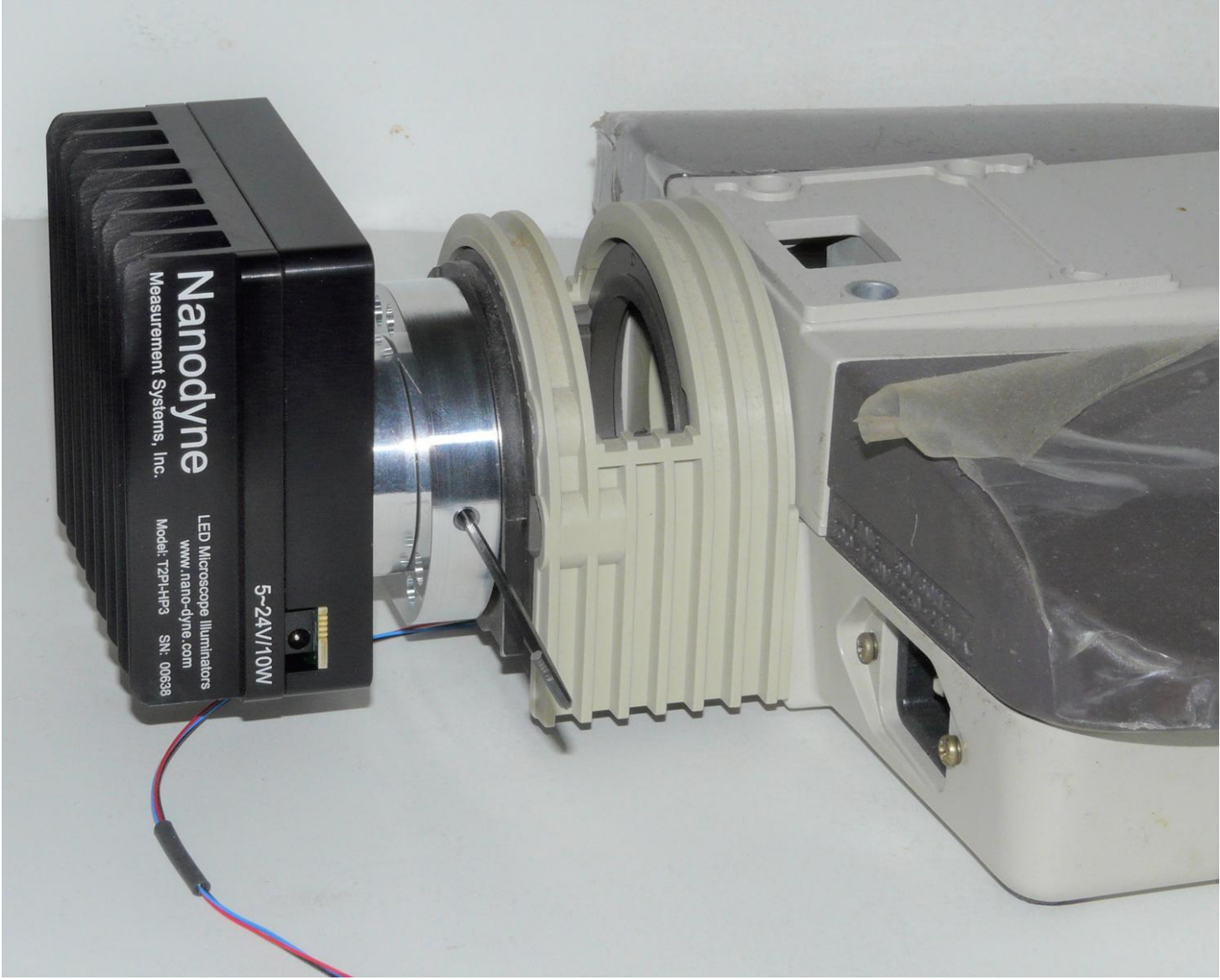


Nanodyne Replacement Microscope Illuminator for Nikon Diaphot 200/300 100W Installation Instructions: Step 4. Mount Nanodyne Illuminator



(1) Insert the Nanodyne illuminator into the adapter.

The photos show an Optiphot-2 microscope. The installation is the same.

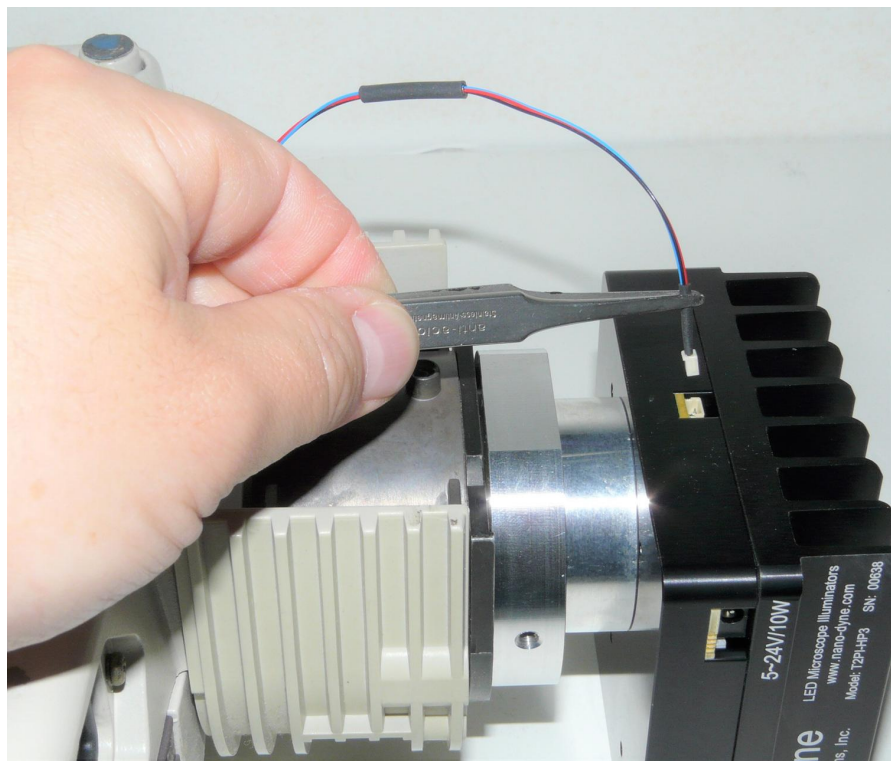


(2) Secure the illuminator by tightening the set screw with the 5/64 inch hex key.

Han-Seung Yang		11/10/2020
PN 11226 Nikon Diaphot 200 & 300 - 100W Illuminator System Installation Instruction		REV 5
SHEET 5		OF 7



Nanodyne Replacement Microscope Illuminator for Nikon Diaphot 200/300 100W Installation Instructions: Step 5. Connect the Intensity Control to the Illuminator



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.

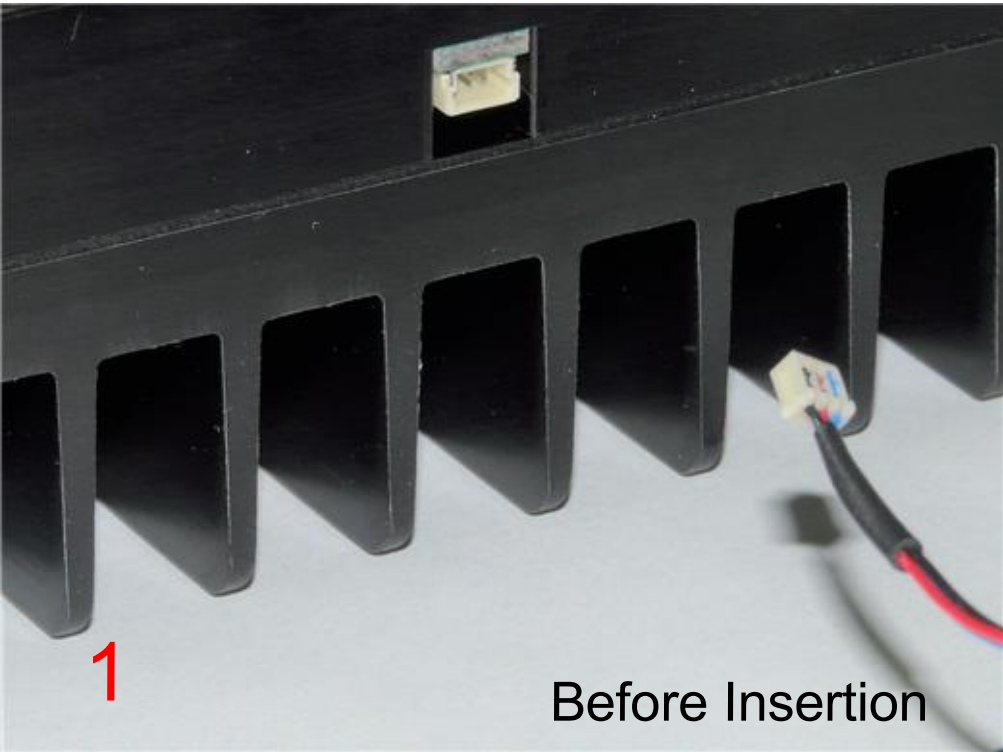
Partially insert the plug into the mating socket of the illuminator by holding the wire next to the plug with your finger (photo 2).

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).

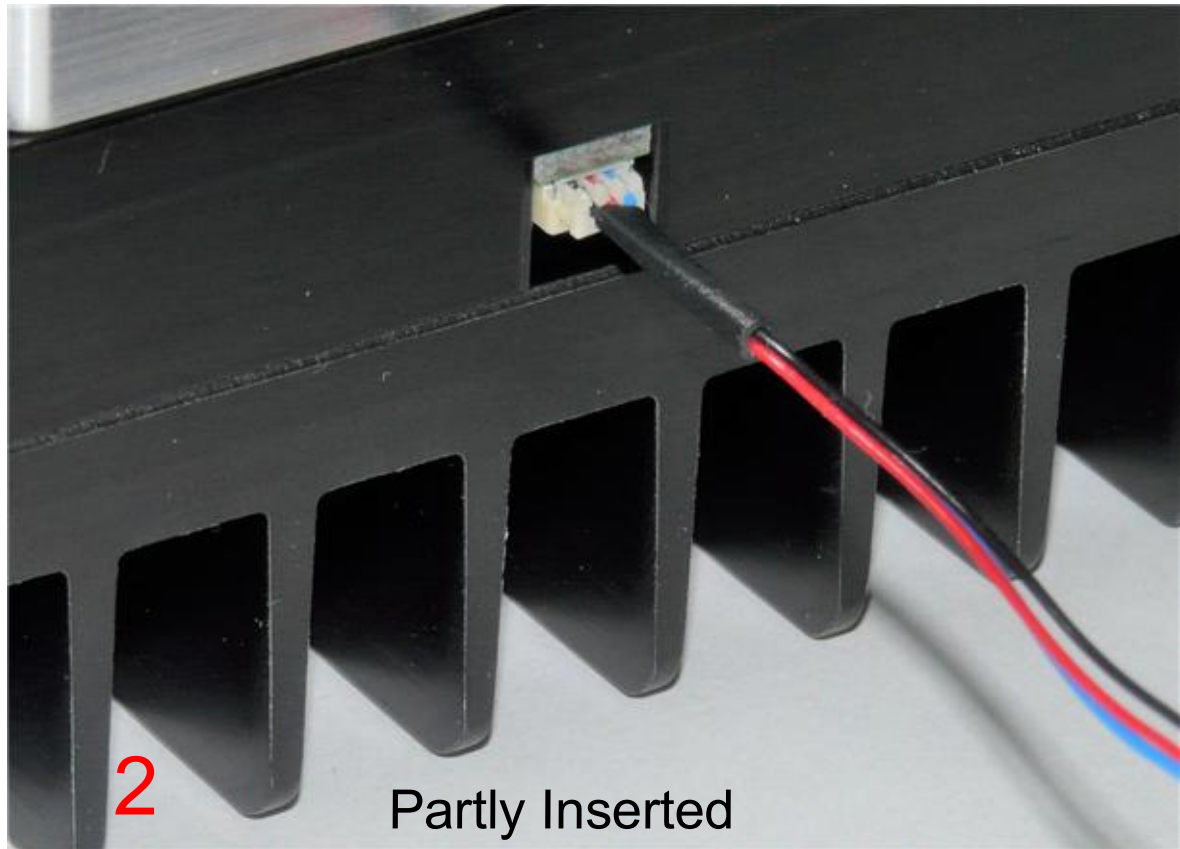
The socket cannot be fully engaged by pushing on the wires, as the wires would just collapse.

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

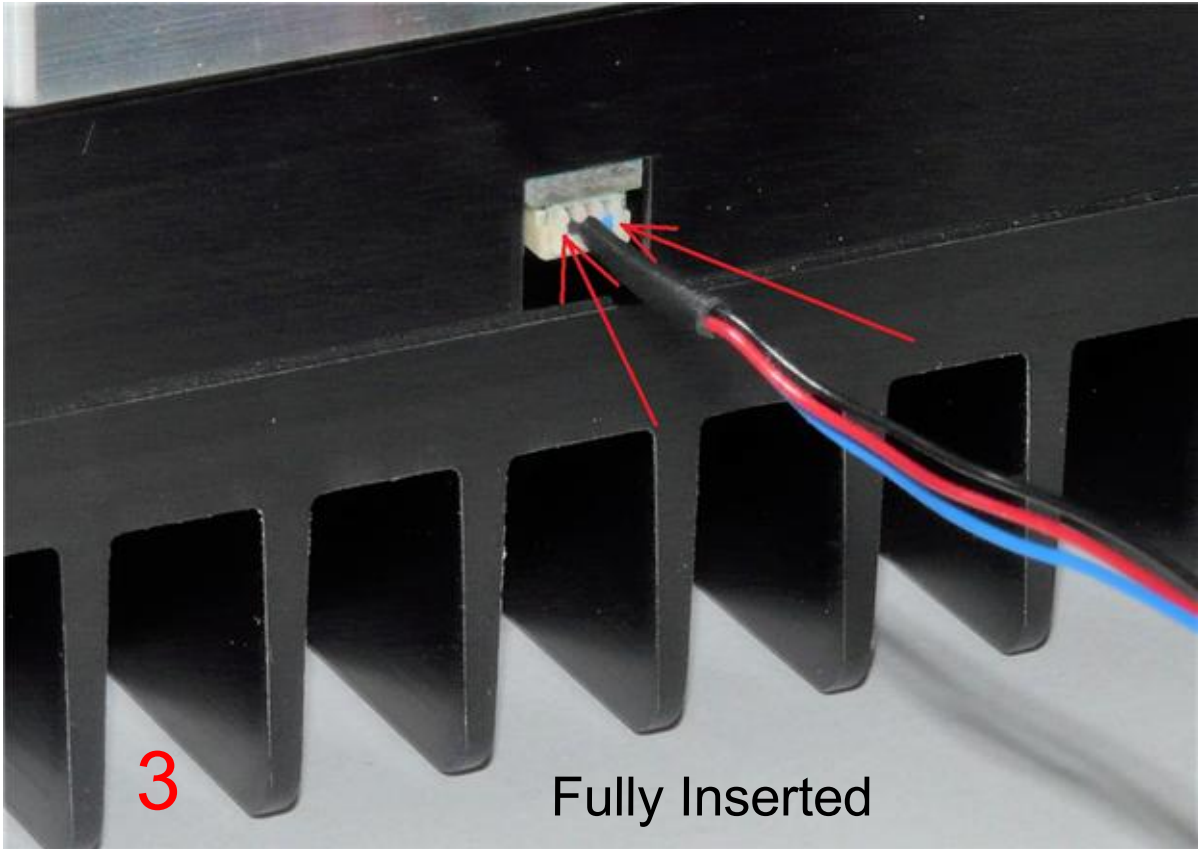
The microscope at left is an Optiphot-2. Installation is the same for the Diaphot 200/300.



Before Insertion



Partly Inserted

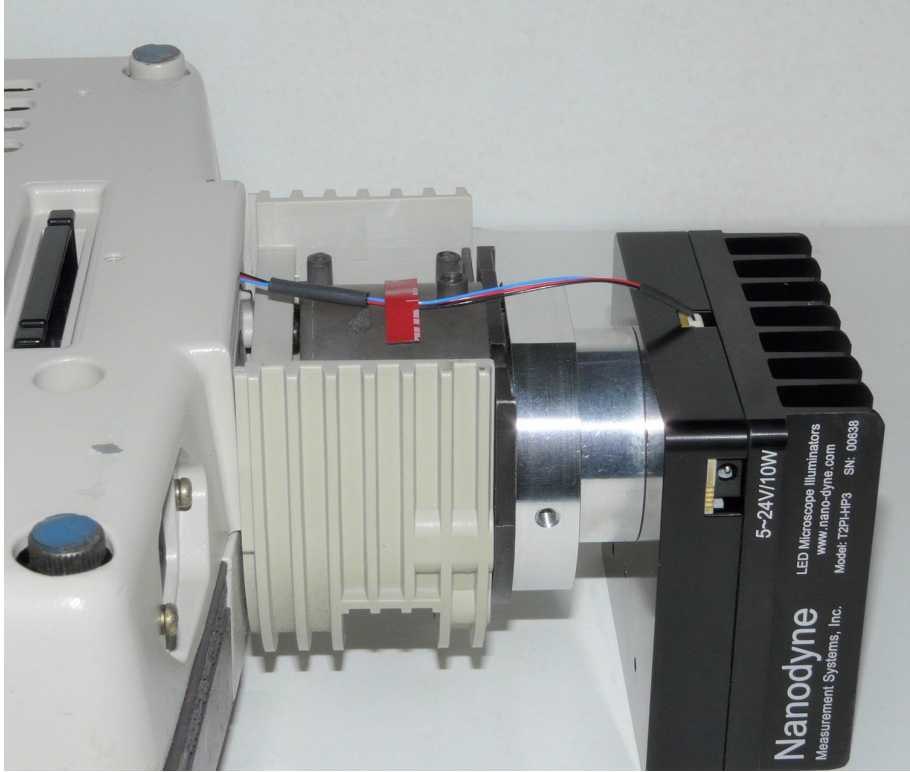


Fully Inserted

Han-Seung Yang		11/10/2020	
PN 11226 Nikon Diaphot 200 & 300 - 100W Illuminator System Installation Instruction			REV 5
SHEET 6		OF	7



Nanodyne Replacement Microscope Illuminator for Nikon Diaphot 200/300 100W Installation Instructions: Step 6. Secure Cables, Electrical Safety



(1) Secure the pot cable inside and outside the microscope with the 3M VHB tape so the cable cannot get damaged or get into the optical path.

(2) Any un-needed AC power input should be disconnected.

If AC power is no longer needed we recommend disconnecting it at the inside of the AC receptacle, disconnect the wires by unsoldering, unplugging or cutting as required. Then insulate the wires with heat shrink tubing or electrical tape.

If AC power is still required for something else, disconnect it from the now obsolete lamp power supply or remove the power supply completely. Be sure any remaining AC wires are well insulated.

Consult with us if you have any questions.



(3) Silicone rubber plug provided to block the AC power receptacle if no longer needed.



(4) Silicone rubber blocking plug installed in AC power receptacle.

(5) Replace any covers on the microscope that were removed to route the pot cable.



(6) Connect the power supply and the new illuminator is ready to operate.

Han-Seung Yang		11/10/2020	
PN 11226 Nikon Diaphot 200 & 300 - 100W Illuminator System Installation Instruction			REV 5
SHEET 7		OF 7	