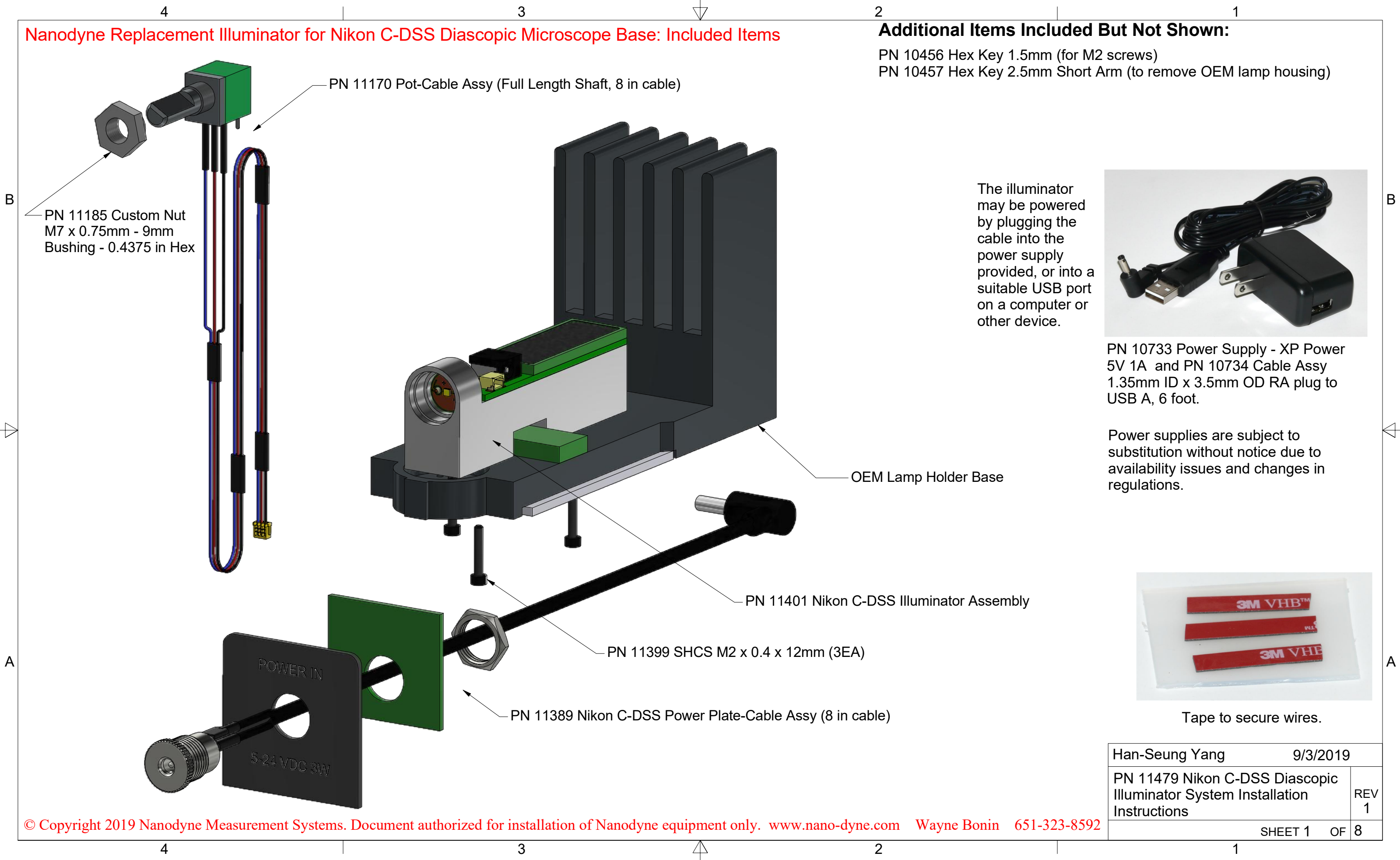


**Nanodyne Replacement Illuminator for Nikon C-DSS Diascopic Microscope Base: Included Items**

**Additional Items Included But Not Shown:**

- PN 10456 Hex Key 1.5mm (for M2 screws)
- PN 10457 Hex Key 2.5mm Short Arm (to remove OEM lamp housing)



PN 11170 Pot-Cable Assy (Full Length Shaft, 8 in cable)

PN 11185 Custom Nut  
M7 x 0.75mm - 9mm  
Bushing - 0.4375 in Hex

OEM Lamp Holder Base

PN 11401 Nikon C-DSS Illuminator Assembly

PN 11399 SHCS M2 x 0.4 x 12mm (3EA)

PN 11389 Nikon C-DSS Power Plate-Cable Assy (8 in cable)

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.



PN 10733 Power Supply - XP Power 5V 1A and PN 10734 Cable Assy 1.35mm ID x 3.5mm OD RA plug to USB A, 6 foot.

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



Tape to secure wires.

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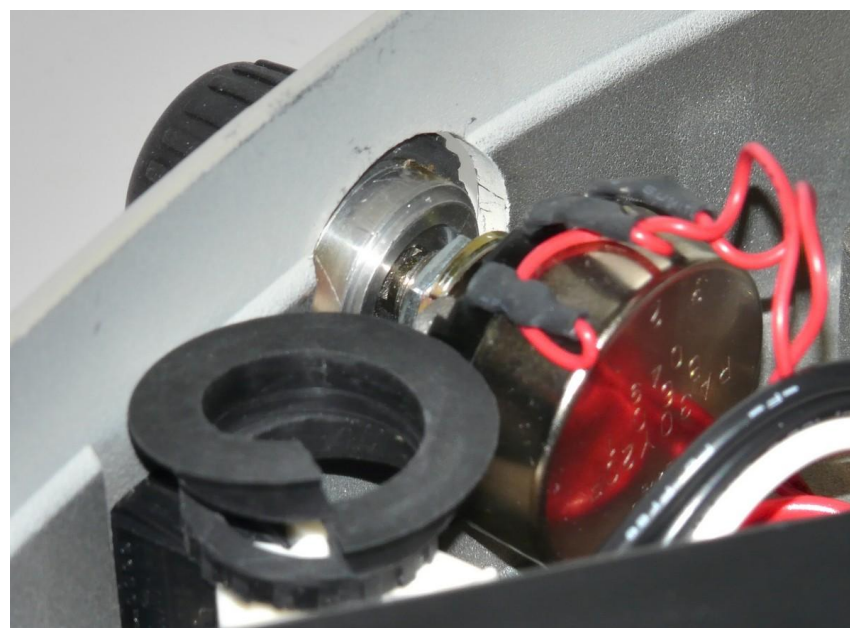


Nanodyne Replacement Illuminator for Nikon C-DSS Microscope Base Installation Instructions: Step 1. Remove Old Potentiometer and Electrical Wiring.

B



(1) The rubber cover must be removed from the knob. It is glued to the knob, and extends past the inside edge of the knob, making it difficult to remove.



(2) Use an X-Acto knife to cut off the rubber on the inside of the microscope to make it easier to remove. Hold the knife in one position and rotate the knob to cut almost all the way around. Reposition the knife to complete the cut. Note removed material next to pot.

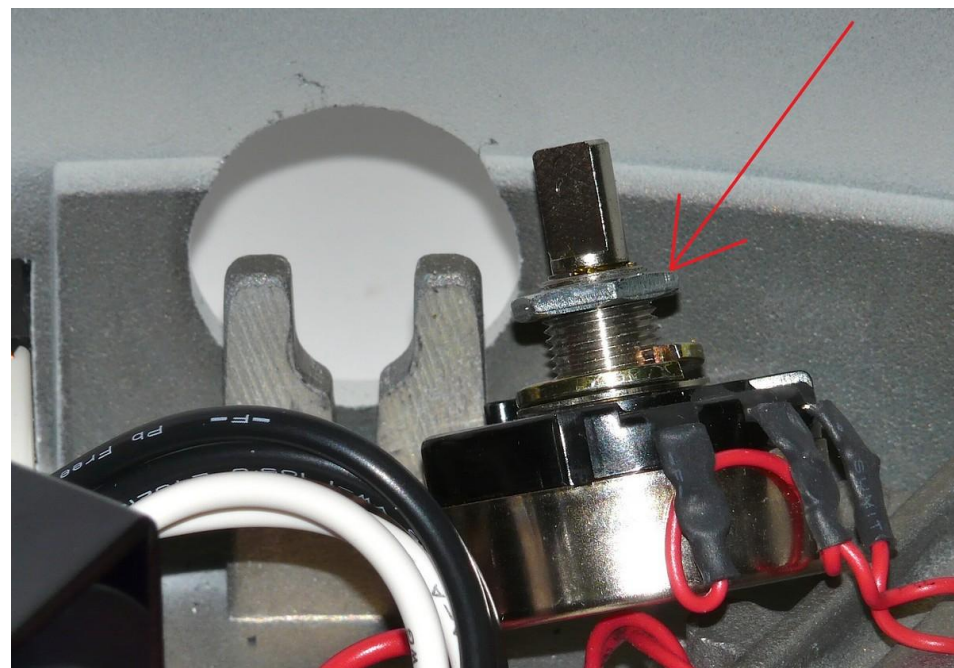


(3) Pull or push the rubber cover off the knob. Then loosen the set screw to remove the knob.



(4) Knob removed from potentiometer. Keep both knob and rubber cover to install on replacement potentiometer.

A



(5) Loosen the nut using a wrench or socket, and remove the potentiometer.



(6) Depress the plastic clips on each side of the AC power receptacle and push it out.

B

A

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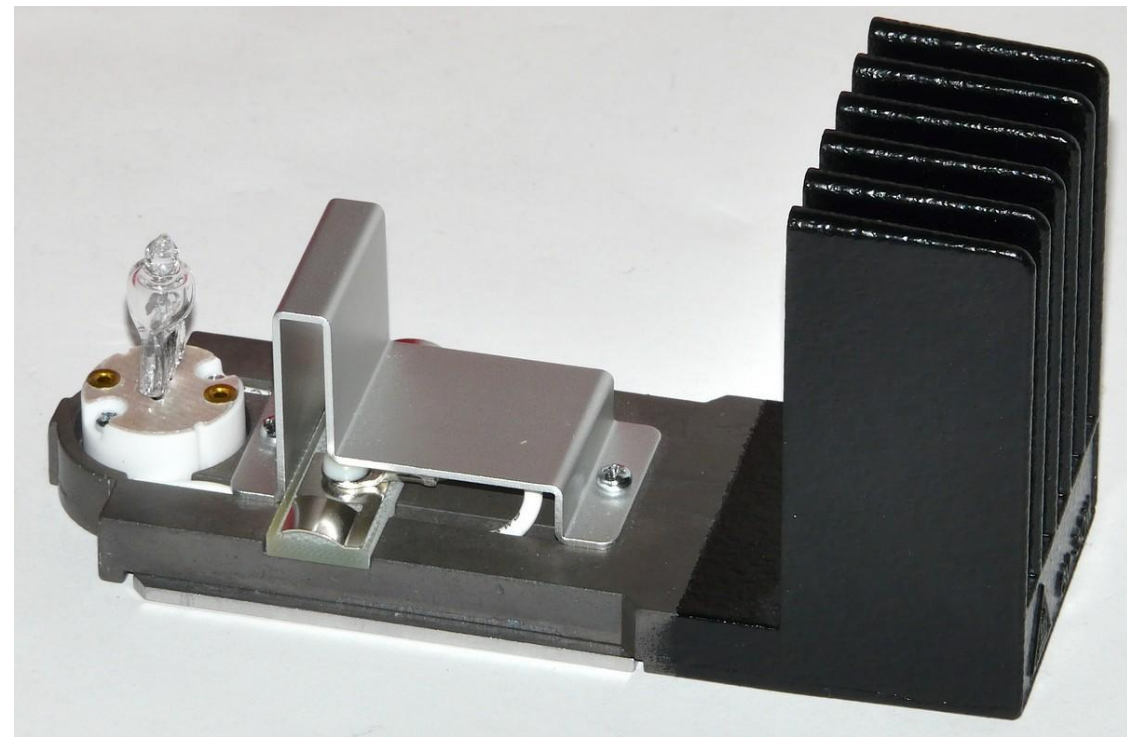
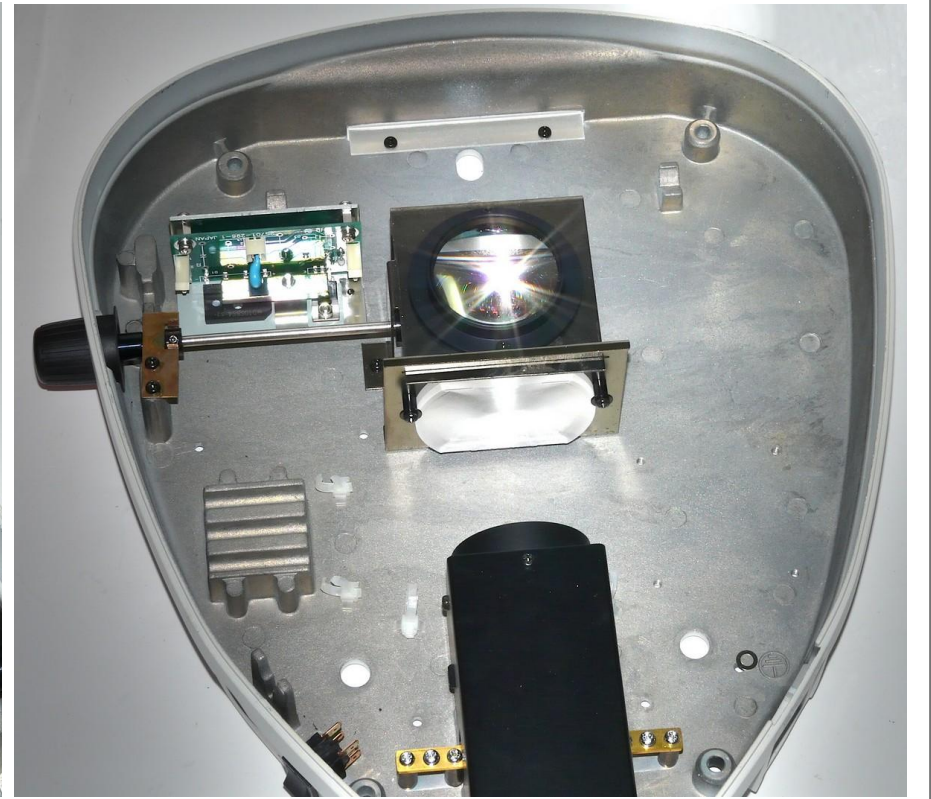
Nanodyne Replacement Illuminator for Nikon C-DSS Microscope Base Installation Instructions: Step 2. Remove Electrical Wiring, Old Lamp Holder Assembly.



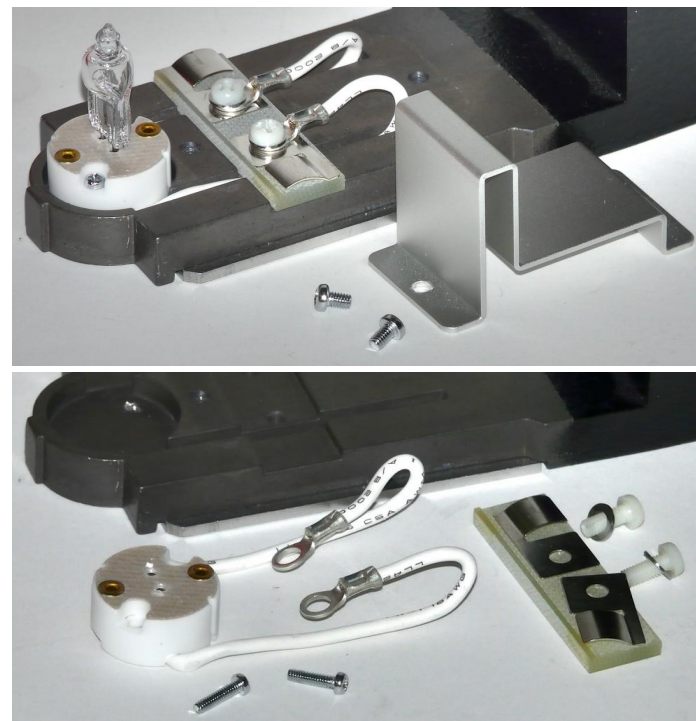
(1) Unplug/unscrew the electrical wiring connections as shown above.



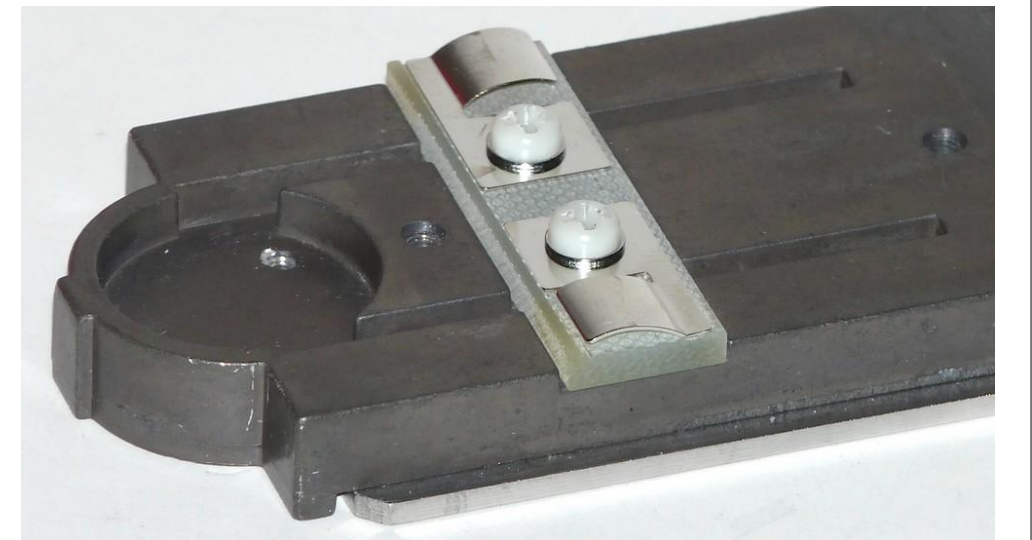
(2) Removing the transformer allows the wiring to be removed intact without cutting anything.



(3) Remove the lamp holder assembly.



(4) Remove the lamp socket as shown above.

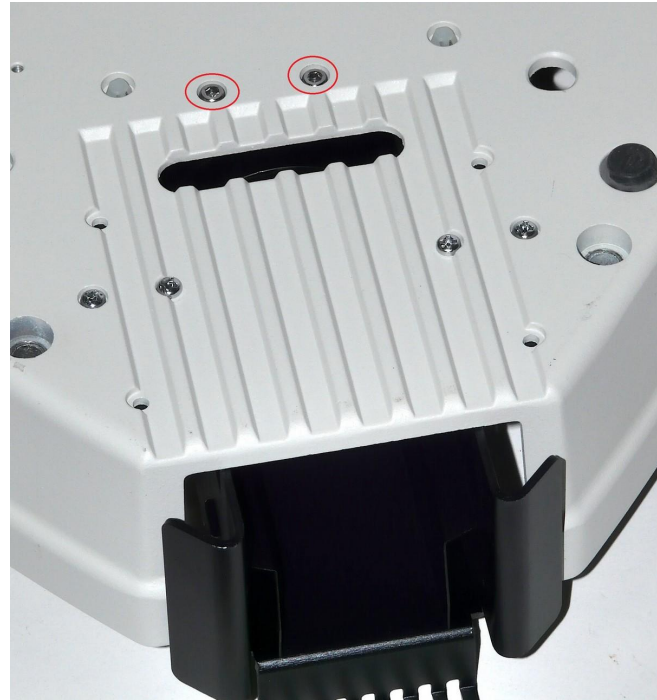


(5) Replace the insulation block and contact springs as shown above.

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Nanodyne Replacement Illuminator for Nikon C-DSS Microscope Base Installation Instructions: Step 3. Mount Nanodyne illuminator on Old Lamp Holder.



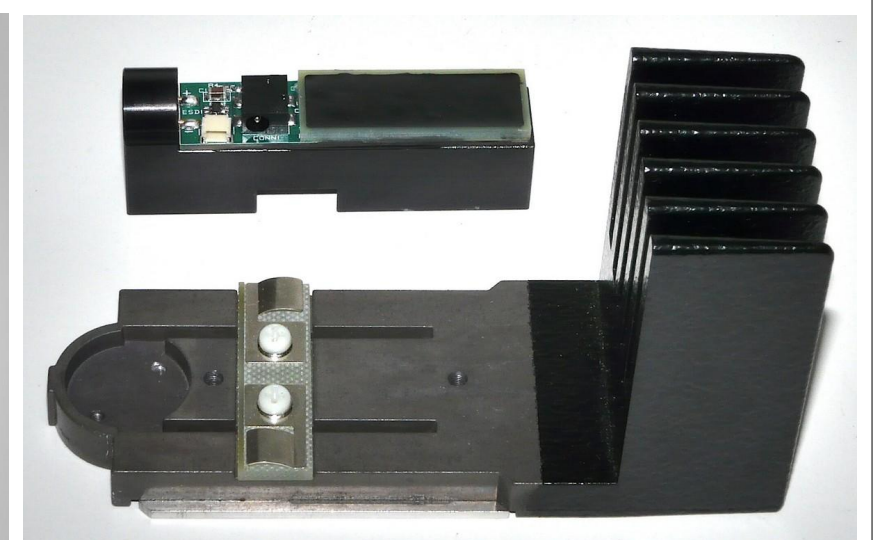
(1) Remove the two circled screws holding the collector lens/lamp housing assembly.



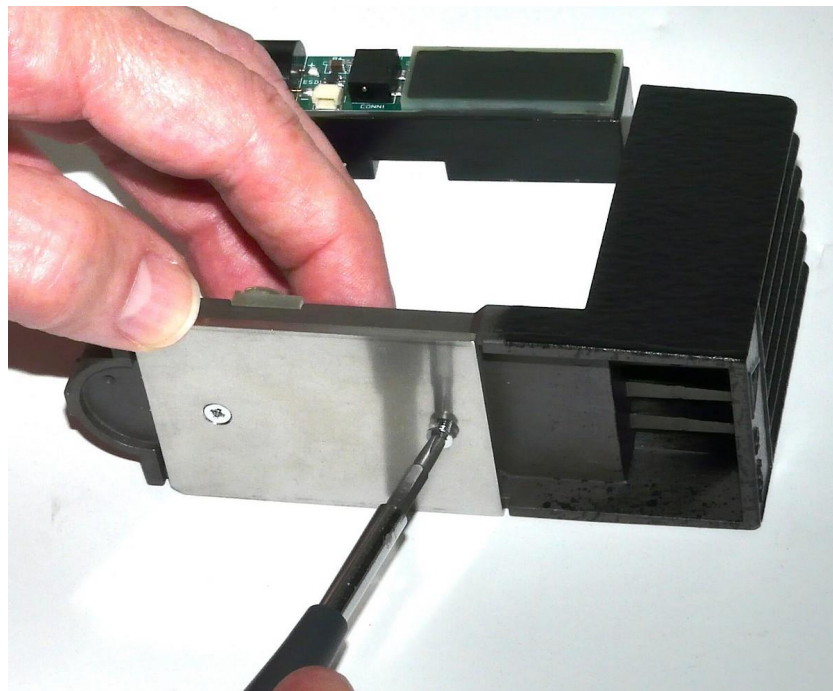
(2) Remove the collector lens/lamp housing assembly. (it interferes with the power cable on the new assembly)



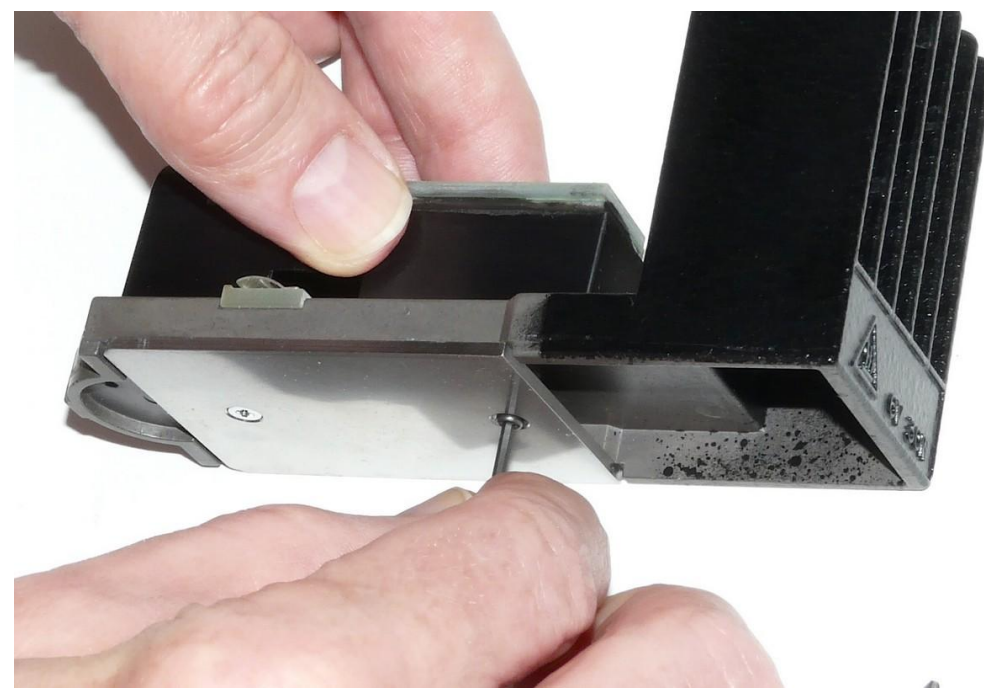
(3) Remove the heat shield from the collector lens/lamp housing assembly. (it interferes with the power cable on the new assembly)



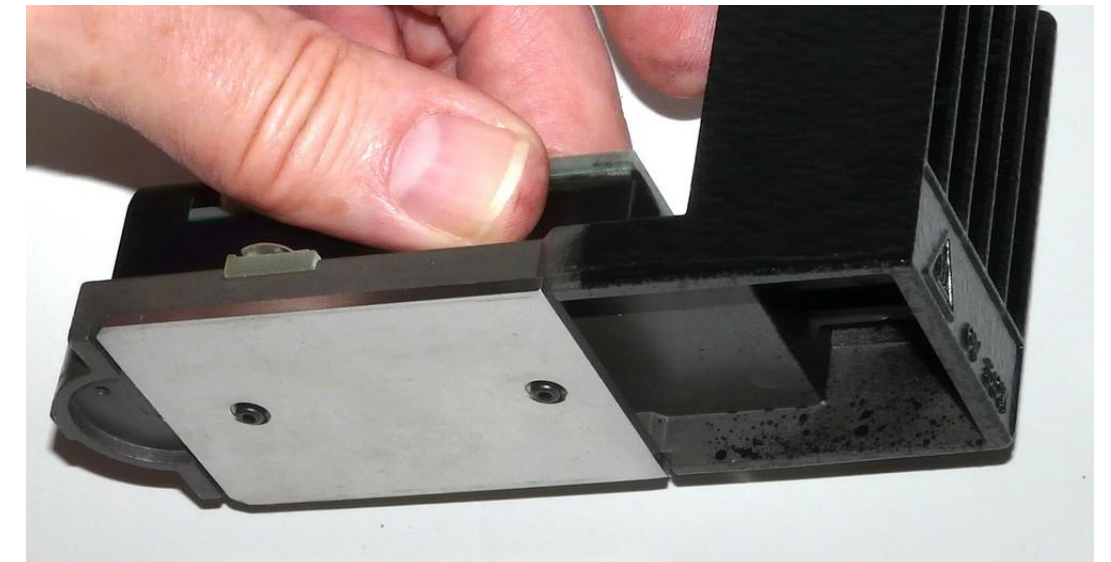
(4) Prepare to attach the Nanodyne illuminator assembly to the original lamp holder assembly.



(5) Remove one of the original screws from the bottom of the lamp holder assembly.



(6) Attach the Nanodyne illuminator assembly with one of the M2 screws provided.



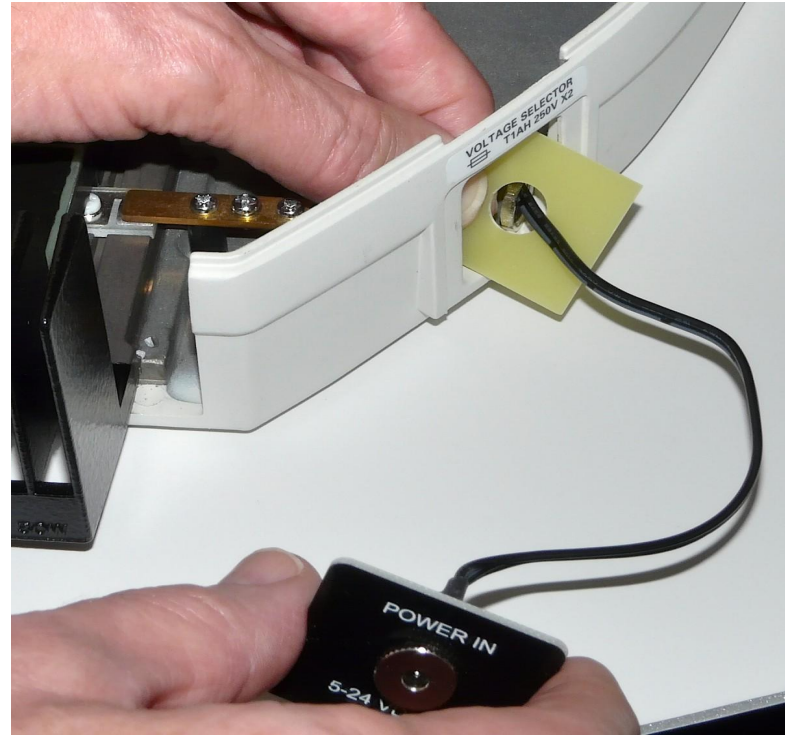
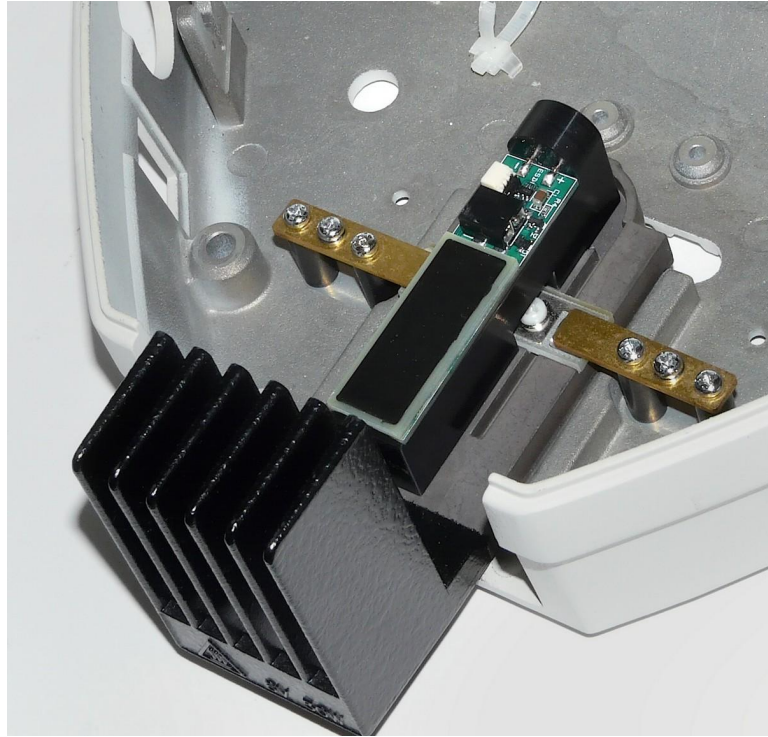
(7) Replace the other OEM screw with the 2nd M2 screws provided. Tighten both screws so the illuminator is secure.



Nanodyne Replacement Illuminator for Nikon C-DSS Microscope Base Installation Instructions: Step 4. Install Illuminator Assembly and Power Plate.

4 3 2 1

B



(1) Insert the new illuminator assembly. It fits just like the original.

(2) Guide the power plate retainer through the old AC power hole as shown above.

B



(3) Line up the power plate (on the outside), and the retainer plate (on the inside) with the recesses in the microscope frame. Then thread the nut onto the silver metal power jack and tighten it by hand.

(photo at left)



(4) Verify that both plates are properly aligned with the nut finger tight. Then finish tightening with a wrench, just enough to secure them. Don't over-do it.

A

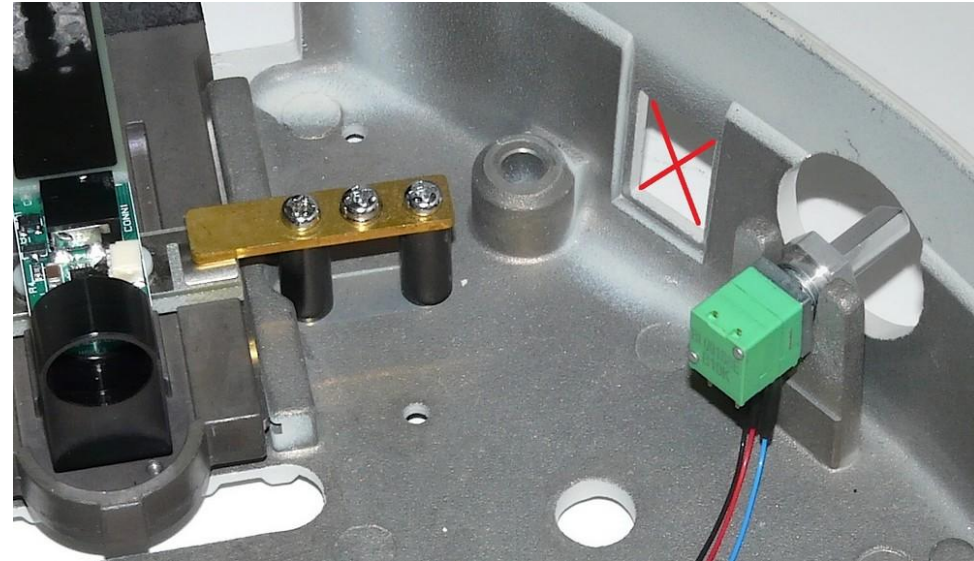
A

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4 3 2 1

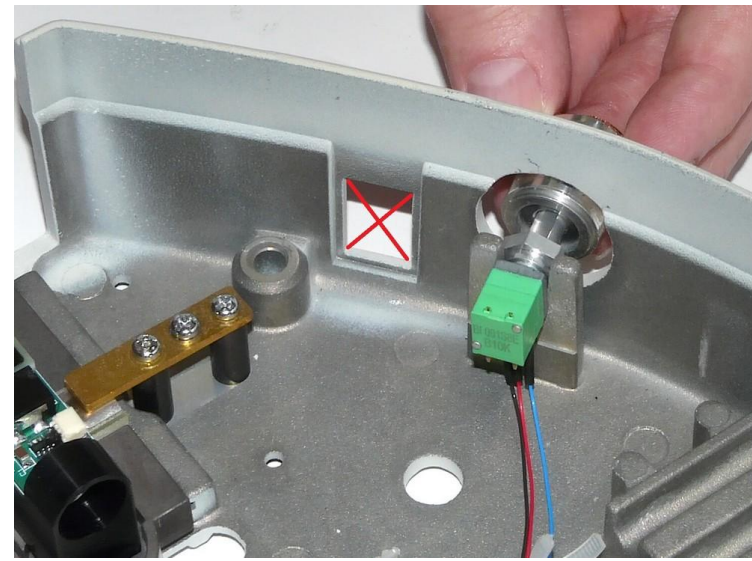


Nanodyne Replacement Illuminator for Nikon C-DSS Microscope Base Installation Instructions: Step 5. Install Potentiometer and Knob. Connect Cables.

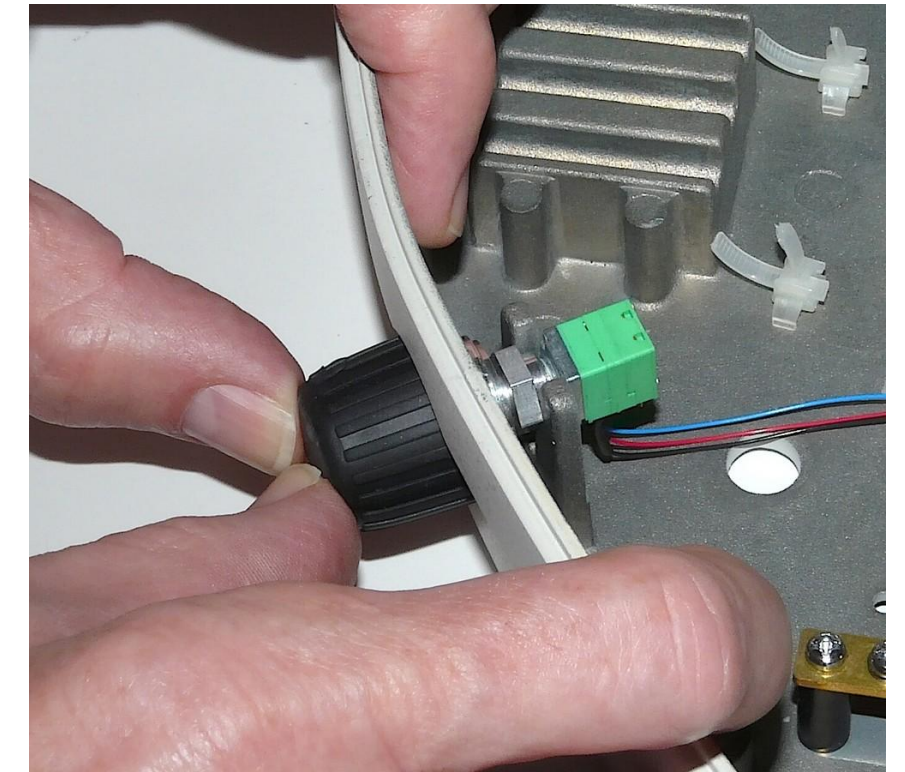


(1) Secure the new potentiometer to the mounting post. Use a 7/16 inch socket or wrench to tighten it.

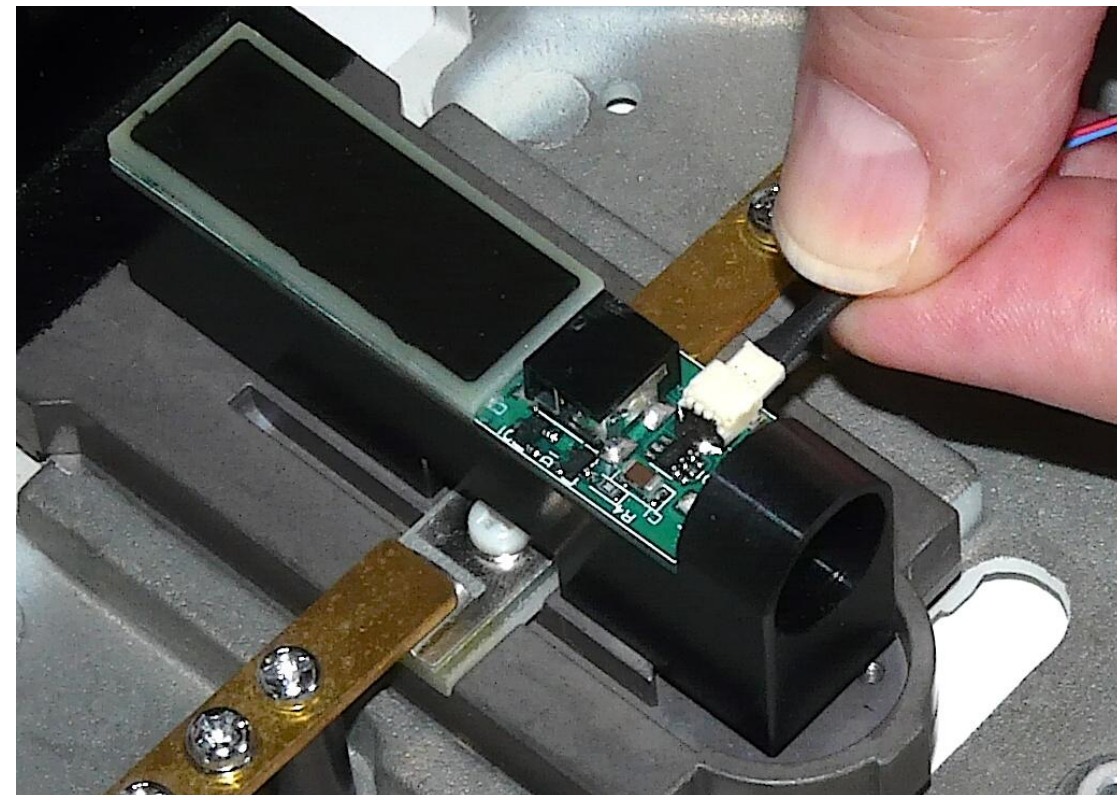
The red X's indicate that the power switch should not have been removed for these photos.



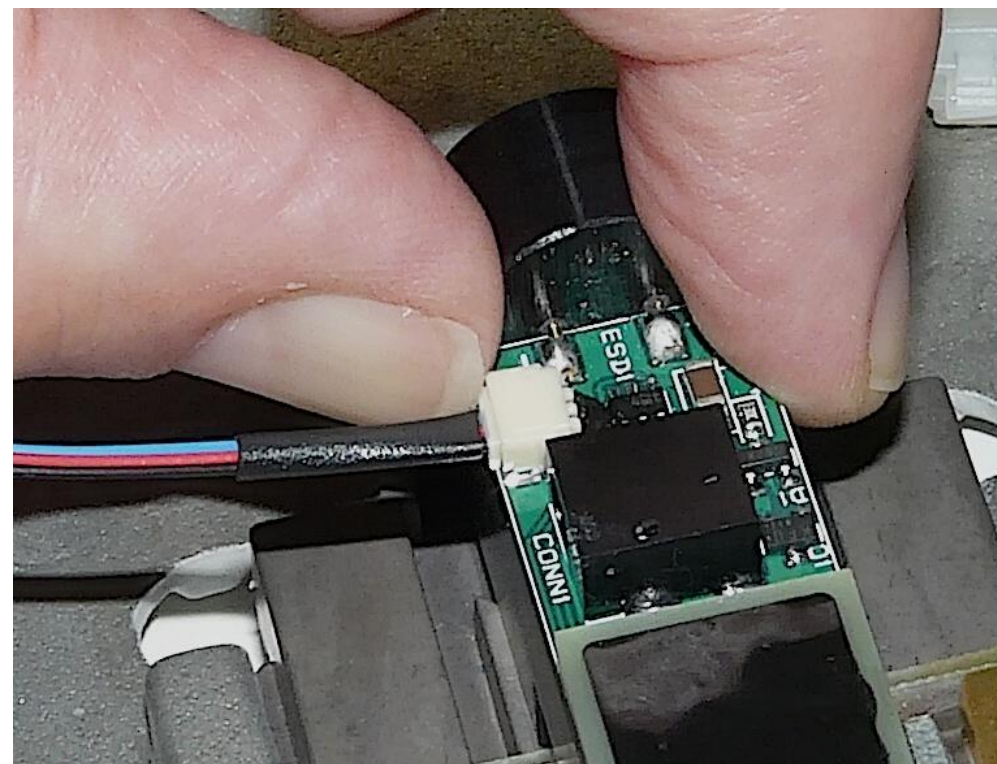
(2) Install the original knob as shown above and at right. Not orientation required to access the set screw to tighten it.



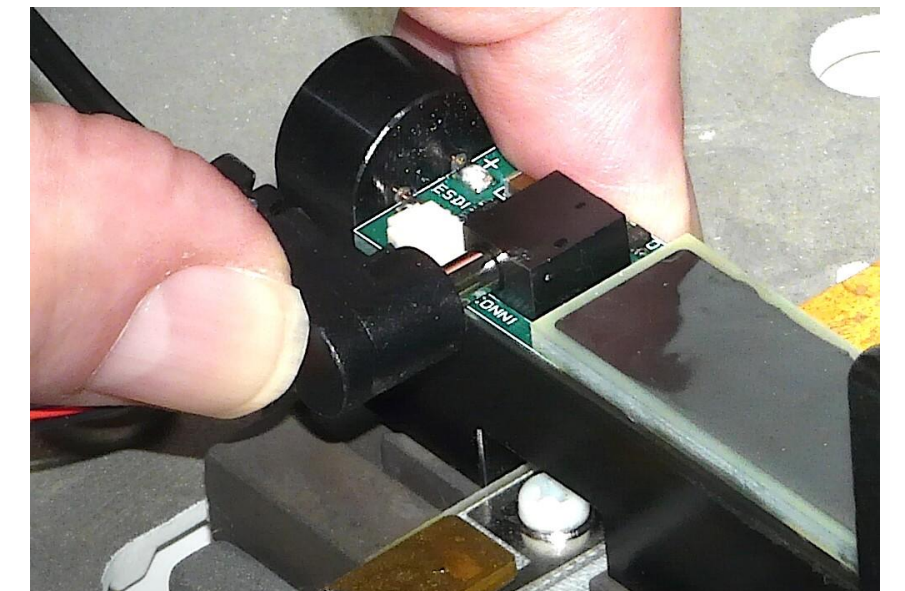
(3) Replace the rubber cover on the knob. It will probably be secure enough as is, but some silicone adhesive could be used if desired.



(4) Connect the potentiometer cable to the illuminator. The connector is keyed to go in one way as shown above. It can be inserted part way holding it by the wires as shown.



(5) fully inserting the connector to engage the electrical contacts needs more force than the wires can support. Use your fingernail as shown above, or a tiny screwdriver or tweezers.

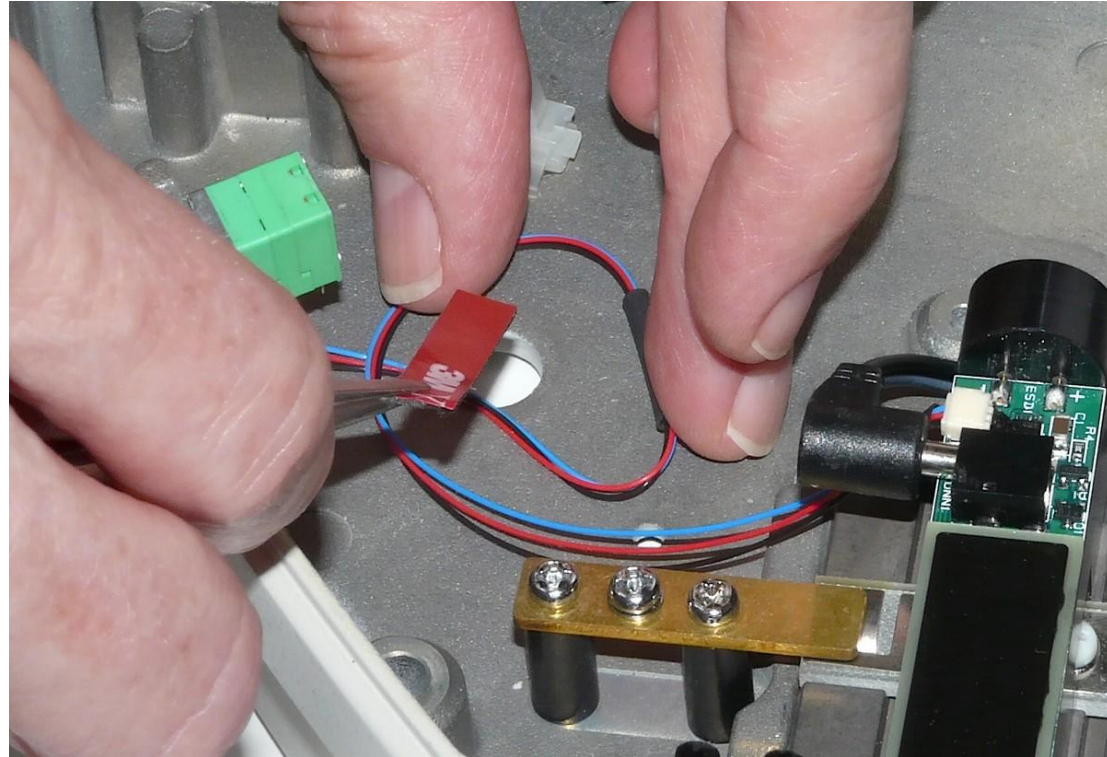


(6) Connect the power cable to the illuminator as shown above.

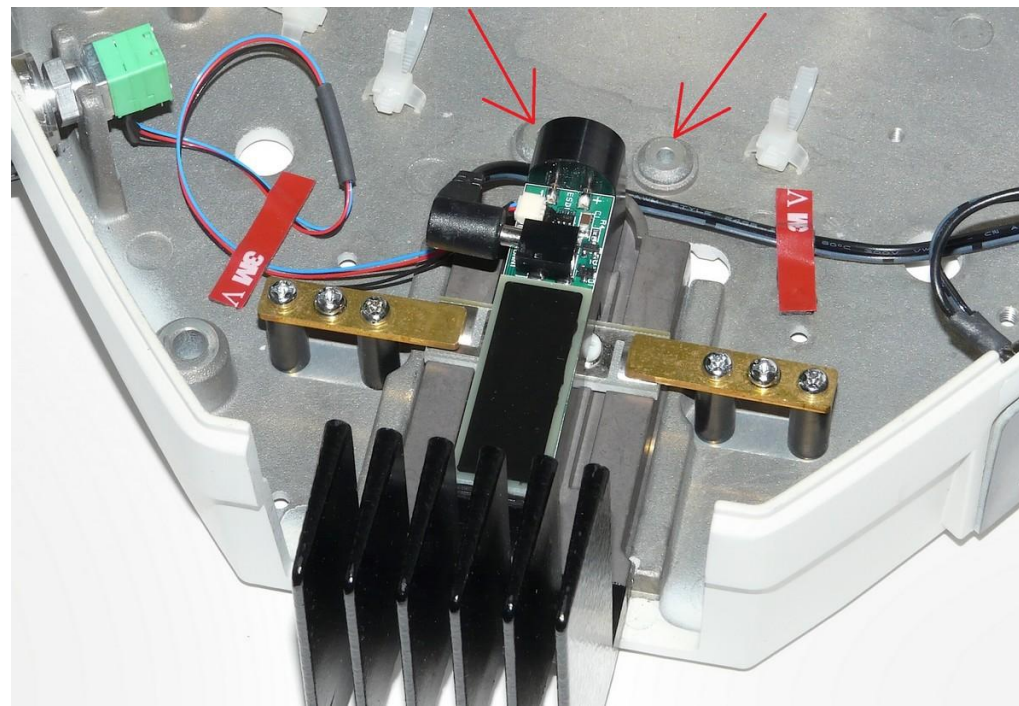
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Nanodyne Replacement Illuminator for Nikon C-DSS Microscope Base Installation Instructions: Step 6. Secure Cables and Reinstall Original Lamp Housing.



(1) Connect the cables using the 3M VHB tape as shown above.



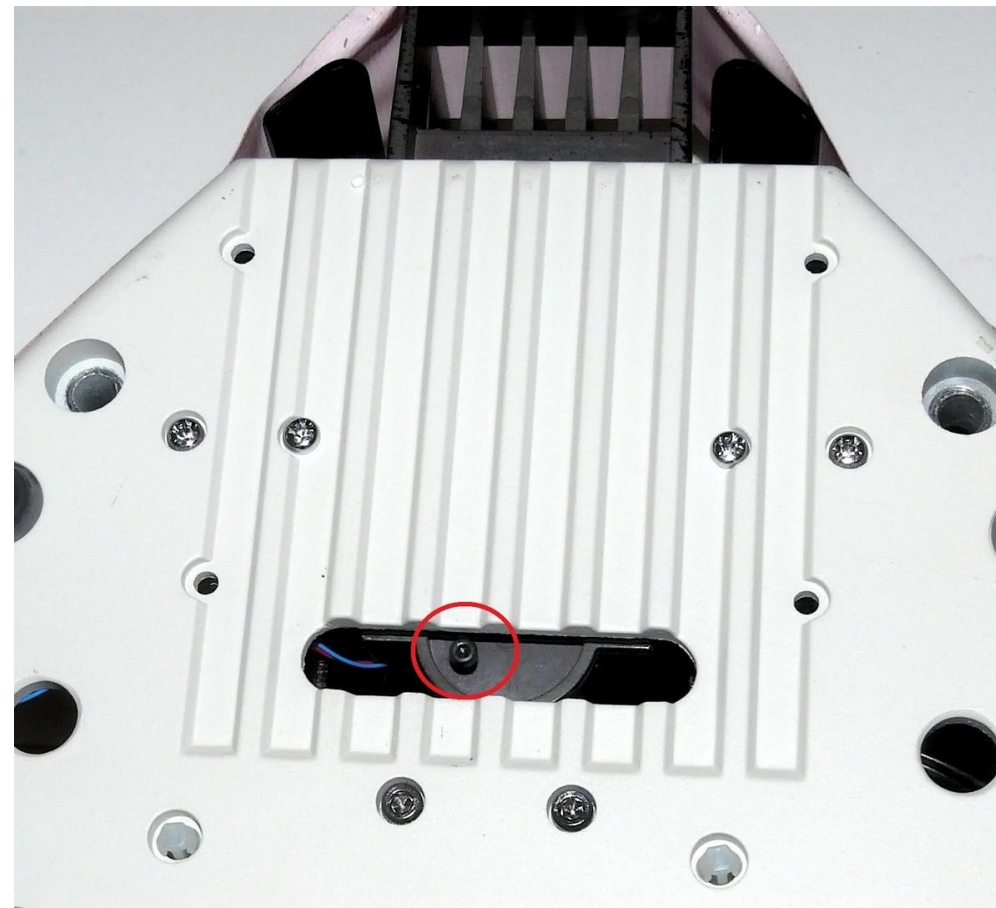
(2) Keep the power cable off the two bumps where the collector lens/lamp housing assembly will be attached.



(3) Replace the collector lens/lamp housing assembly



(4) Attach the lamp housing as it was removed, using the original screws.



(5) Install the 3rd M2 screw as shown at left.

This will prevent damage to the wiring by preventing the illuminator assembly from being pulled out from the back like the original illuminator.

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Nanodyne Replacement Illuminator for Nikon C-DSS Microscope Base Installation Instructions: Step 7. Connect the Power Supply.



(1) Connect the power supply to complete the illuminator installation.

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