

## Nanodyne Replacement Illuminator for Nikon E200 Microscope: Included Items

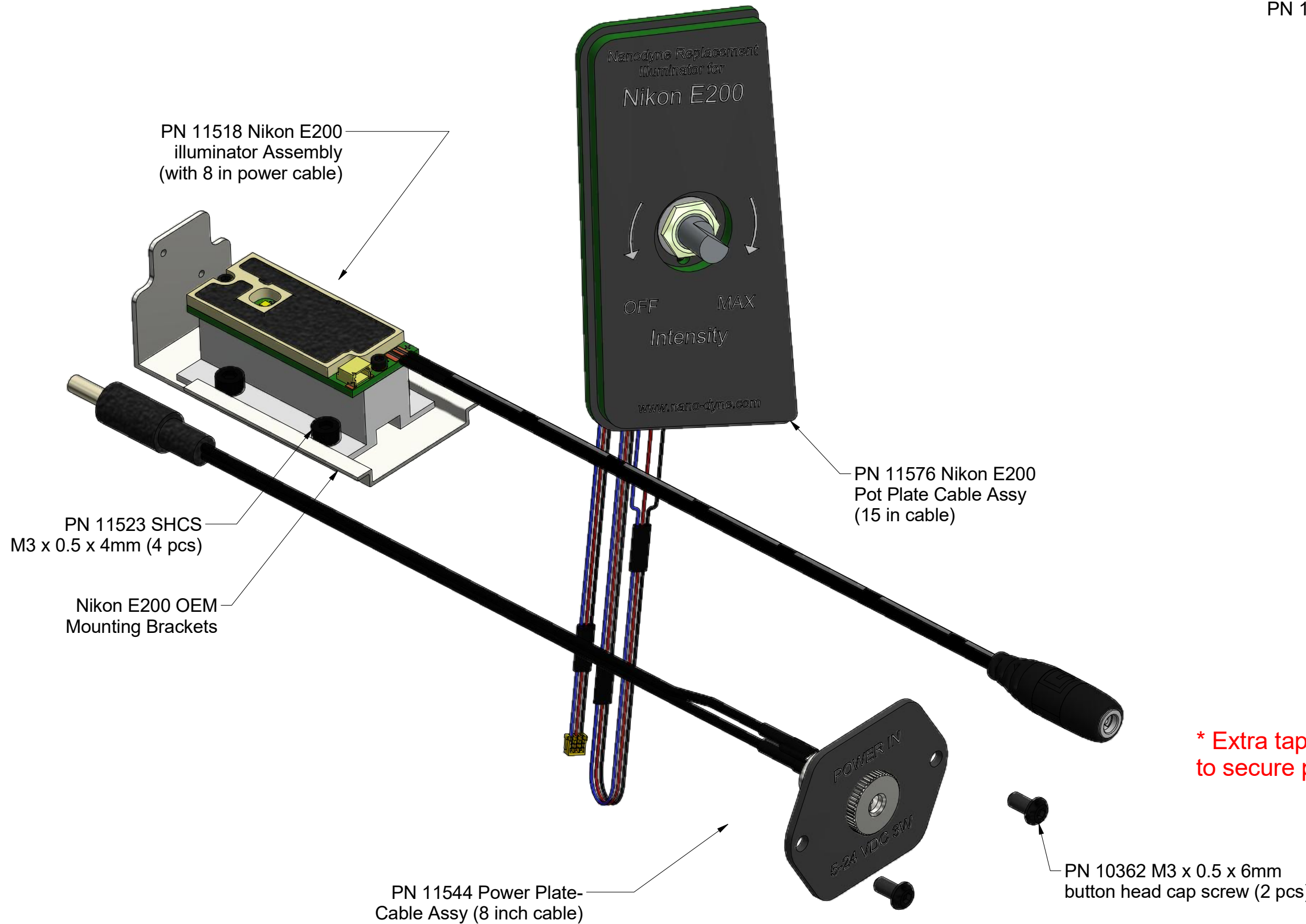
## Additional Items Included But Not Shown:

PN 10337 Hex Key 2mm Short Arm  
 PN 10566 Hex Key 2.5mm long arm ball end

B

A

A



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.

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.



Tape to secure wires.

**\* Extra tapes needed to secure pot plate.**

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Nanodyne Replacement Illuminator for Nikon E200 Microscope Installation Instructions: Step 1. Remove Old Potentiometer and Electrical Wiring.



photo 1a



photo 1b



photo 1c

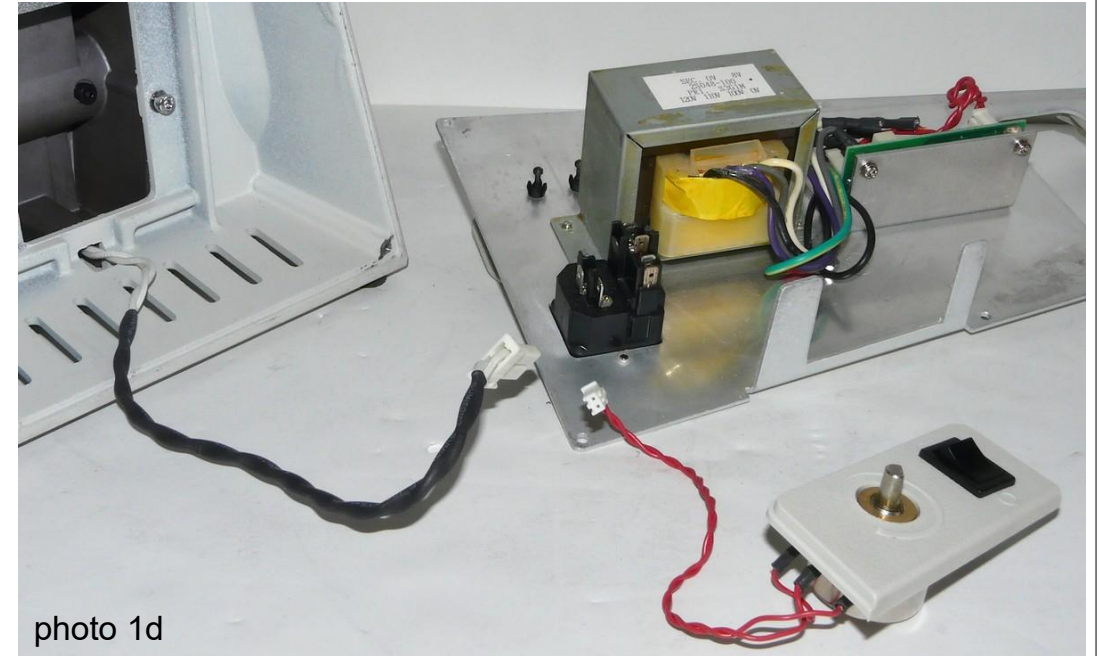


photo 1d

(1) Remove back cover.

(2) Use the 2mm hex key to remove the adjustment knob. Keep the knob to install on the replacement adjustment potentiometer.

Disconnect the cables connected to the OEM illuminator circuit board, and remove unneeded components including the original potentiometer and all electrical wiring.

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

Be sure that the now unneeded electrical wiring cannot cause a short circuit in case AC power is connected by mistake sometime. They can be completely removed if desired.



photo 1e



photo 1f

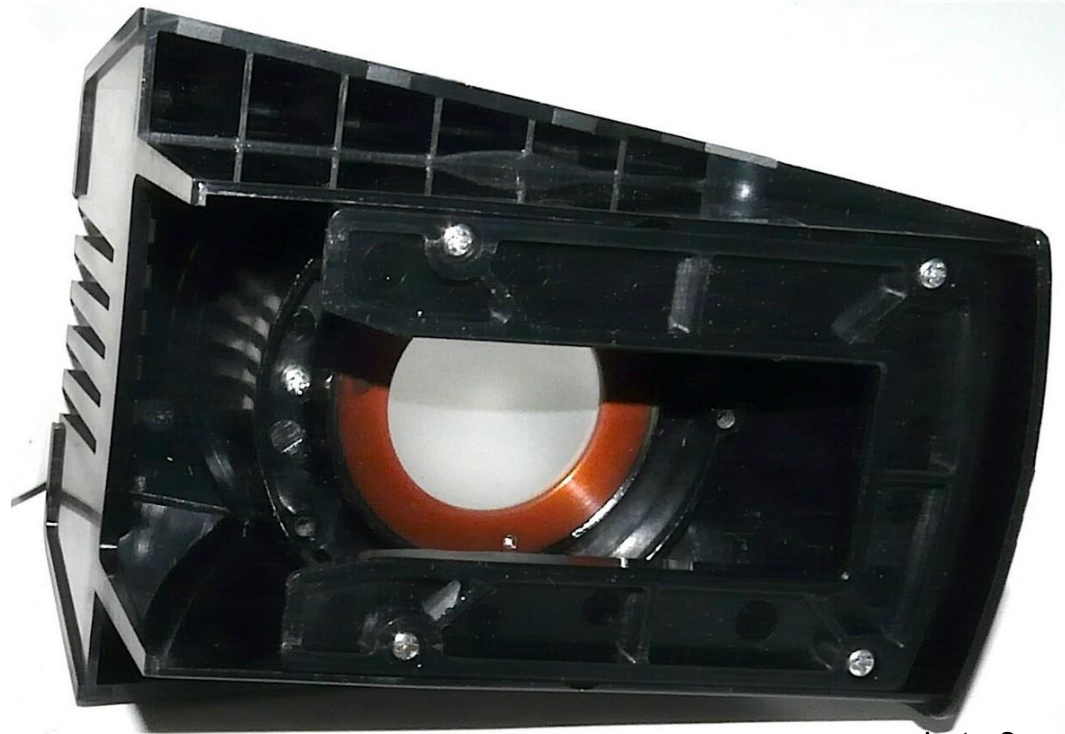


photo 1g

(3) Remove the collector lens/lamp housing assembly and unscrew the black plastic railing.

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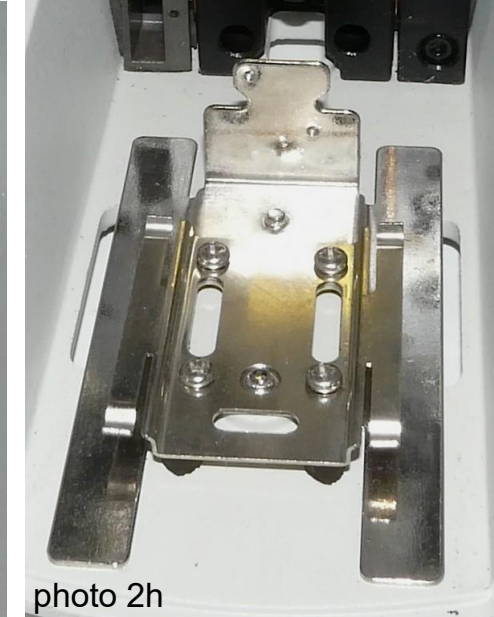
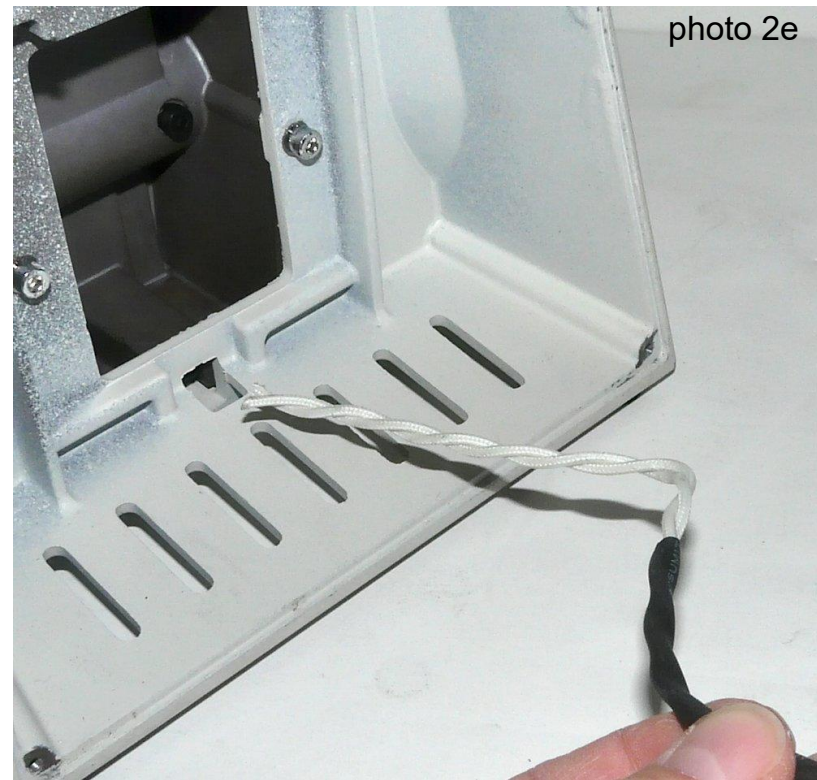
Nanodyne Replacement Illuminator for Nikon E200 Microscope Installation Instructions: Step 2. Remove old Lamp Holder Assembly.



(1) Unscrew and remove the heat shield from the collector lens/lamp housing assembly. (it interferes with the power cable on the new assembly)

(2) Replace the black plastic railing.

(3) Cut the wires from the OEM lamp socket.



(4) Remove the OEM lamp wires.

(5) Remove the screws holding the socket with a phillips screwdriver (photo at left). Then remove the socket (photo above).

(6) Obsolete components removed.

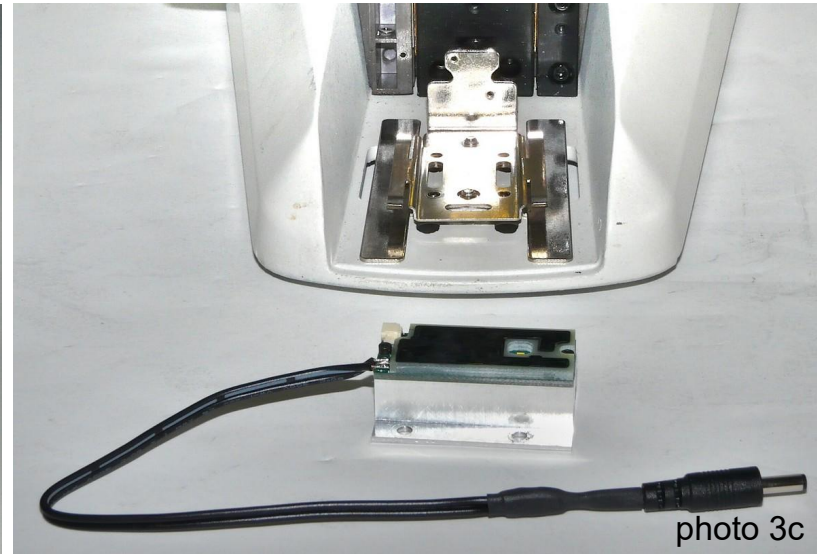
Ready to begin install (photo at left).

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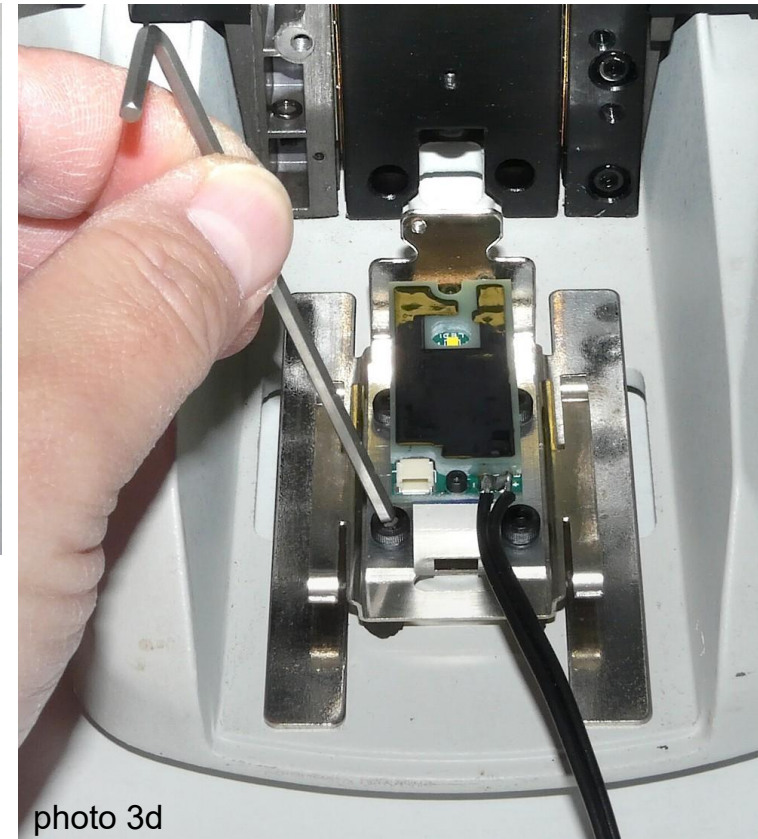
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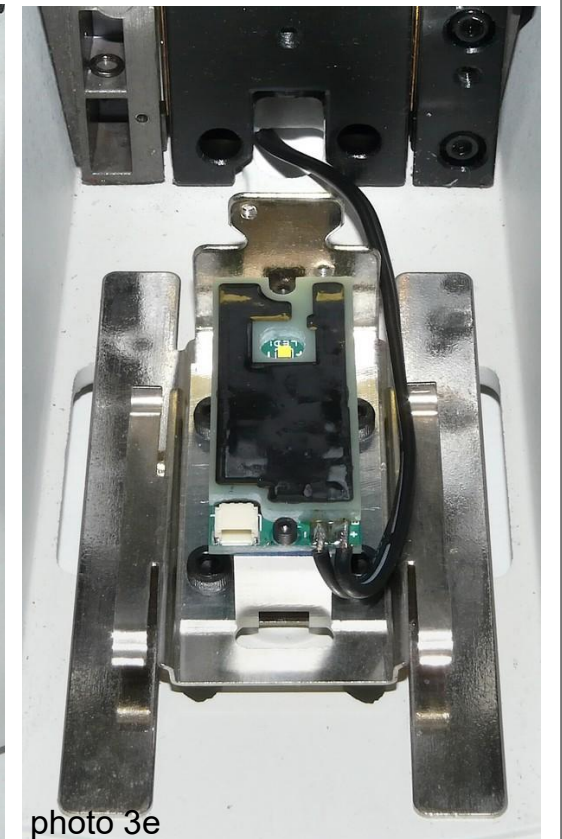
Nanodyne Replacement Illuminator for Nikon E200 Microscope Installation Instructions: Step 3. Mount Nanodyne illuminator on Old Lamp Holder.



(2) Ready to install the Nanodyne illuminator assembly.



(3) Attach the Nanodyne illuminator with the M3 screws provided.



(4) Route the power cable through the center hole.

(1) Remove the four screws holding the metal railing. Leave the railing in place.



(5) Route the cable as shown in photo 3f.



Keep it clear of the rails that hold the OEM collector lens assembly.

(6) Install the new adjustment pot plate assembly. (2 photos at left)

The red VHB tape holds it in place (the back cover will provide more support).

Route the cable out to the illuminator.



photo 3h

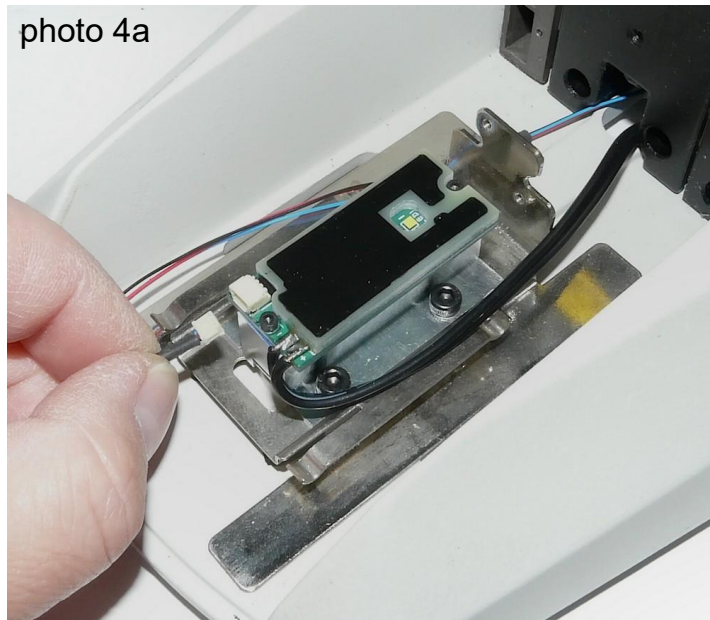
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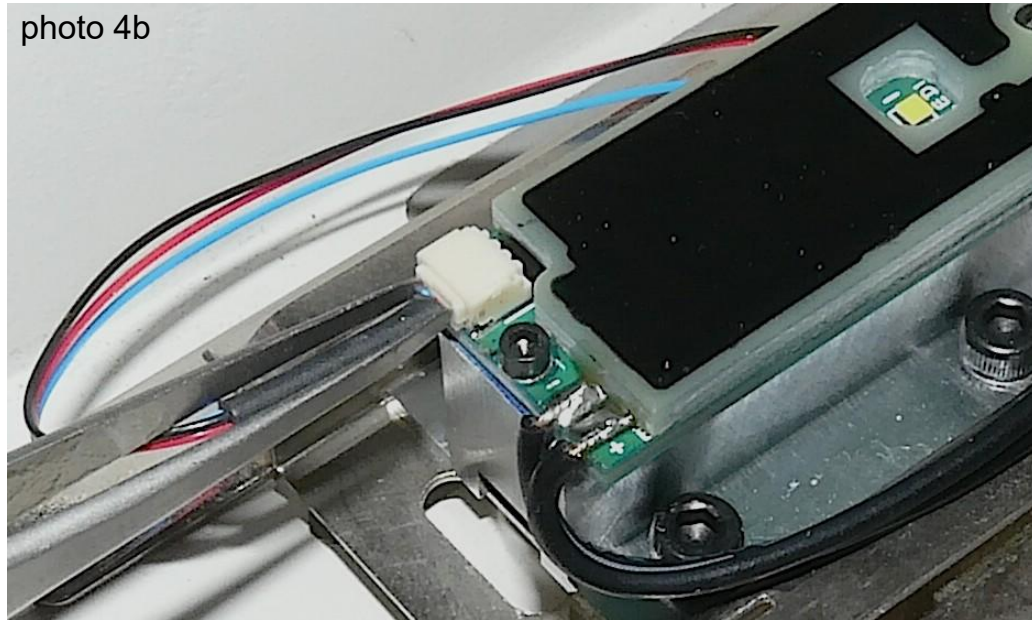
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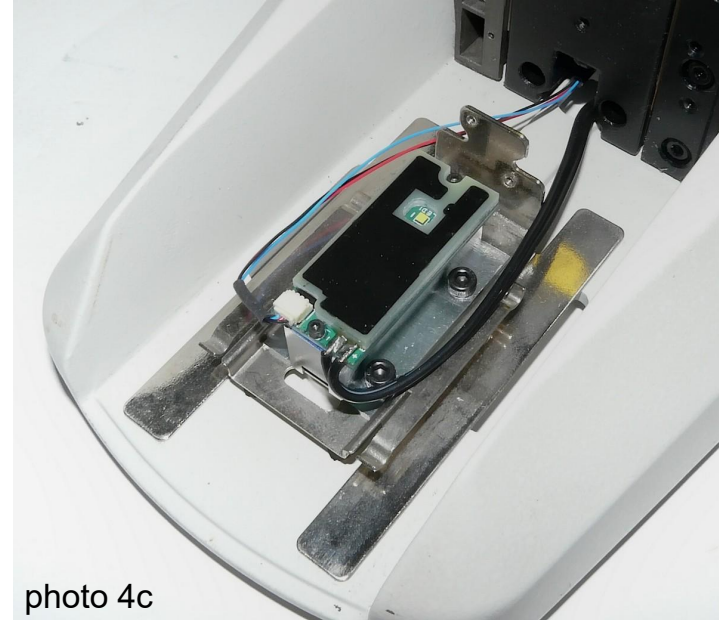
Nanodyne Replacement Illuminator for Nikon E200 Microscope Installation Instructions: Step 4. Install Illuminator Assembly and Power Plate.



(1) 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.



(2) Fully inserting the connector to engage the electrical contacts needs more force than the wires can support. Use your fingernail or a tiny screwdriver or tweezers.



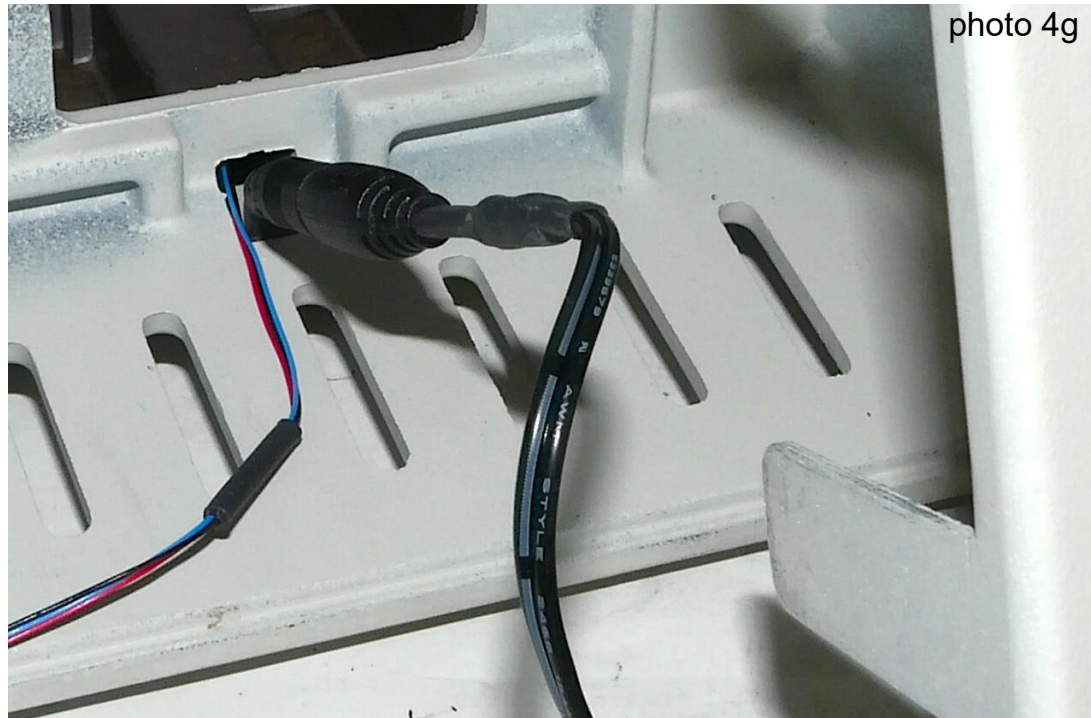
(3) Route the cables as shown above. Keep clear of the metal railings. The collector lens assembly slides under the railings.



(4) Remove the original AC power receptacle from the back cover.



(5) Install the new DC power receptacle using the M3 button head screws provided.



(6) Connect the power cable.



(7) Replace the back cover.

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Nanodyne Replacement Illuminator for Nikon E200 Microscope Installation Instructions: Step 5. Install Pot Knob and Lamp Housing Assembly. Connect Power Supply.



photo 5a

(1) Replace the original knob using the 2mm hex key as shown above.



photo 5b

(2) Replace the collector lens/lamp housing assembly. (photos above and right)



photo 5c



photo 5d

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

(photo at left)

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