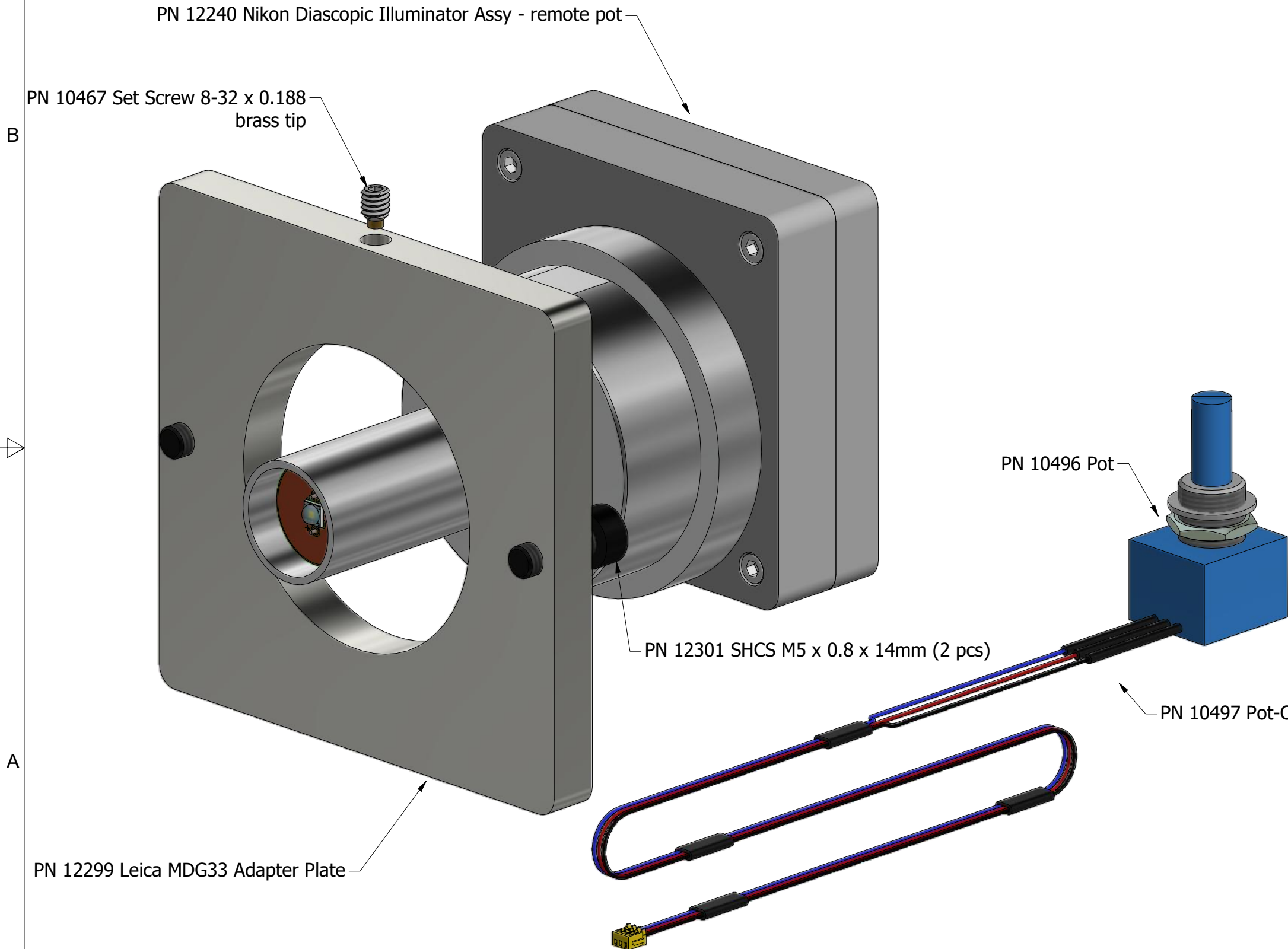


Nanodyne Replacement Illuminator for Leica MDG33 Microscope Base illuminator System: Installation Instructions

Additional Items Included But Not Shown:

- PN 10490 Hex Key 5/64 Short Arm (for set screw in aluminum adapter - to adjust focus)
- PN 10457 Hex Key 2.5mm Short Arm L
- PN 10460 Hex Key 4mm Short Arm L



Tape to secure wires.



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.



PN 10736 Rubber plug to block unused AC power receptacle.

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

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Nanodyne Replacement Illuminator for Leica MDG33 Microscope Base Installation Instructions: Step 1. Remove Bottom Cover.



The photos 1a through 1d show the microscope base this illuminator system was designed for.



(1) Flip the microscope base upside down.

(2) Loosen the screws using a hex wrench provided.

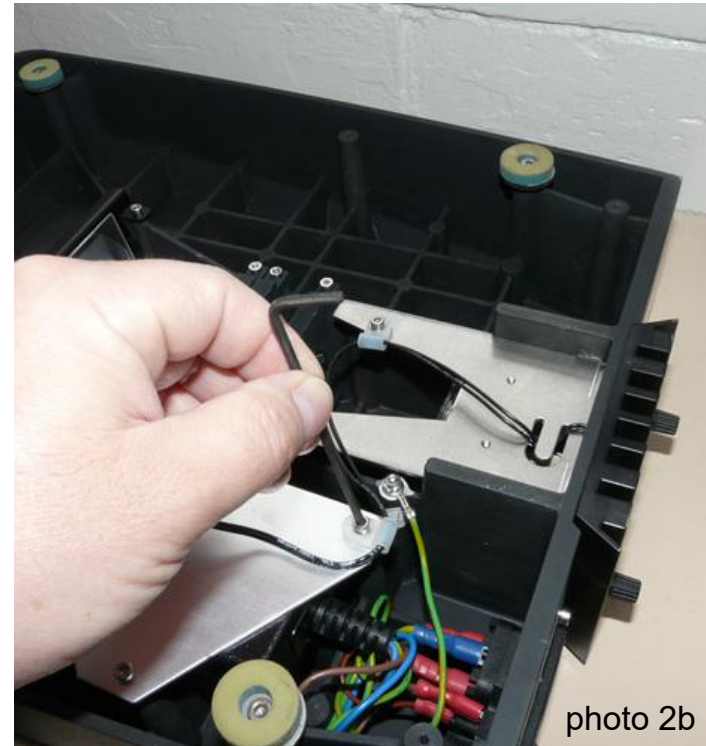
(3) Remove the bottom cover.

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Nanodyne Replacement Illuminator for Leica MDG33 Microscope Base Installation Instructions: Step 2. Remove Old Lamp Holder Assembly and Potentiometer.



(1) Disconnect the original lamp.



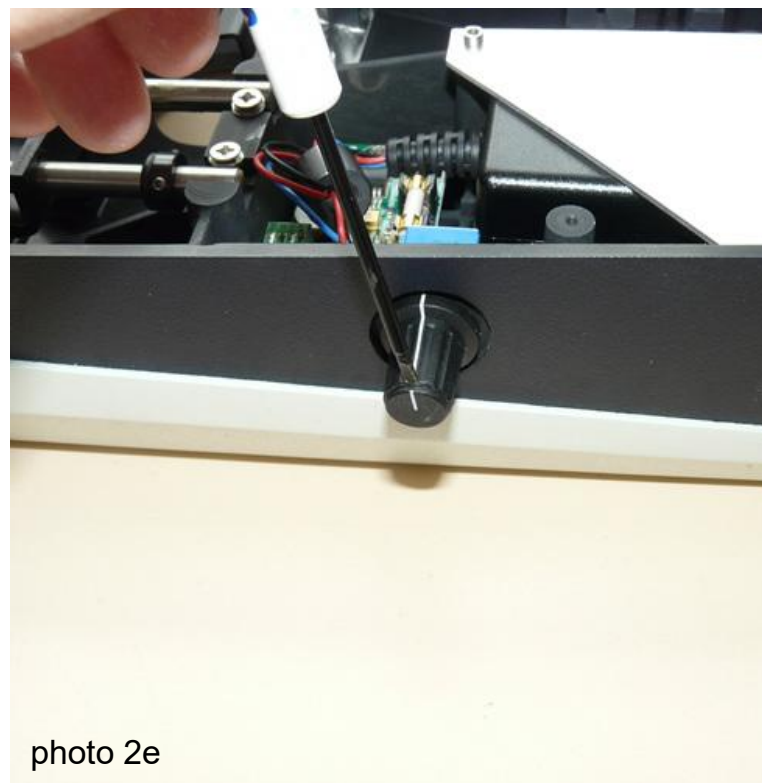
(2) Remove the screws holding original lamp cable.



(3) Loosen the screws holding original lamp house.



(4) Slide out the original lamp house.



(5) Remove the original knob cap.

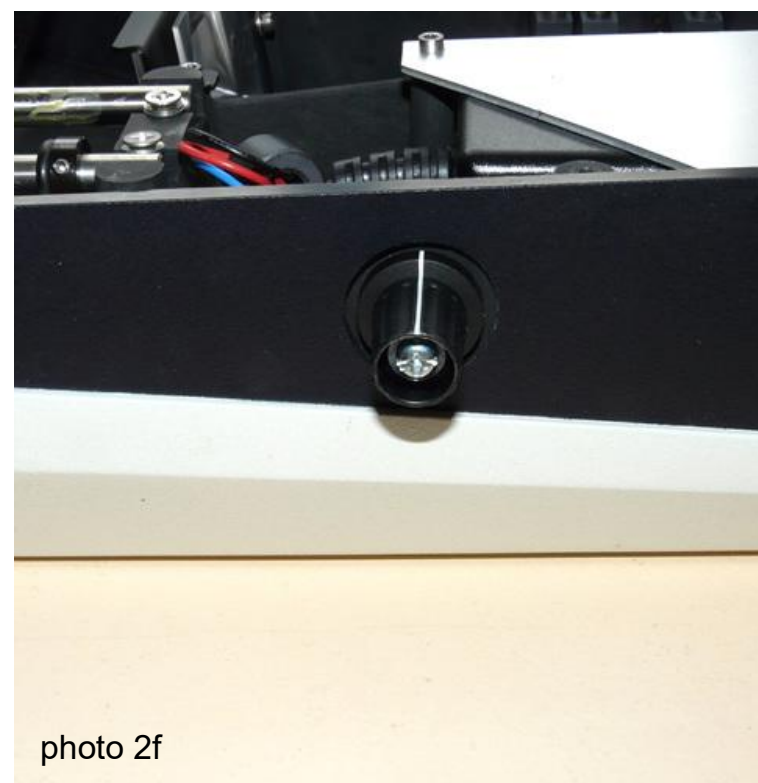


photo 2f

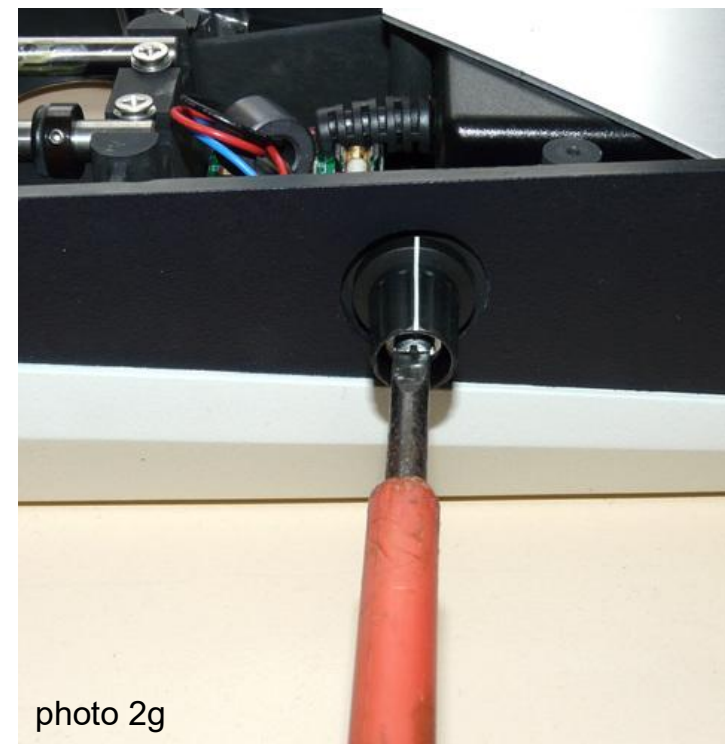


photo 2g

(6) Remove the adjustment knob. Keep the knob to install on the replacement potentiometer.



photo 2h

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Nanodyne Replacement Illuminator for Leica MDG33 Microscope Base Installation Instructions: Step 3. Remove Old Potentiometer (continued) and Install a New Pot.



photo 3a



photo 3b



photo 3c



photo 3d

(1) Unscrew and remove the OEM nut. Keep the nut for later installation.

(2) Remove and disconnect the OEM potentiometer.

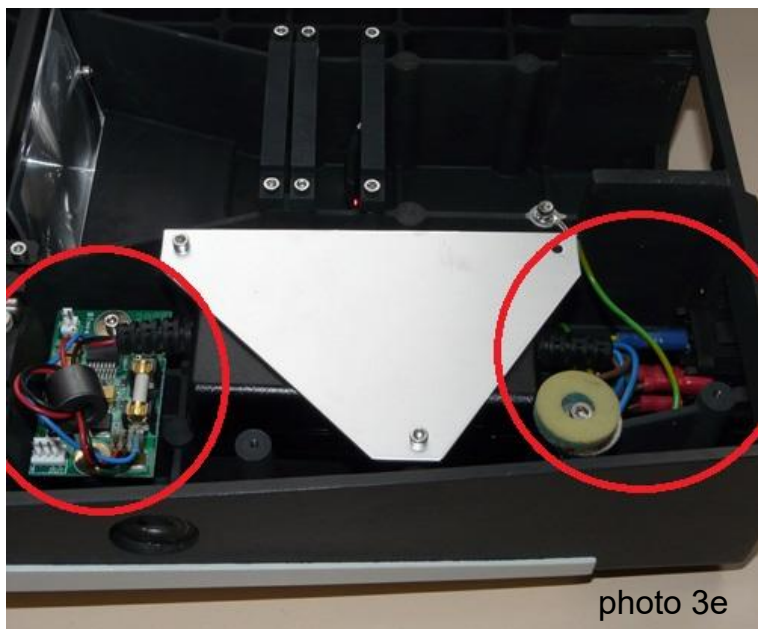


photo 3e

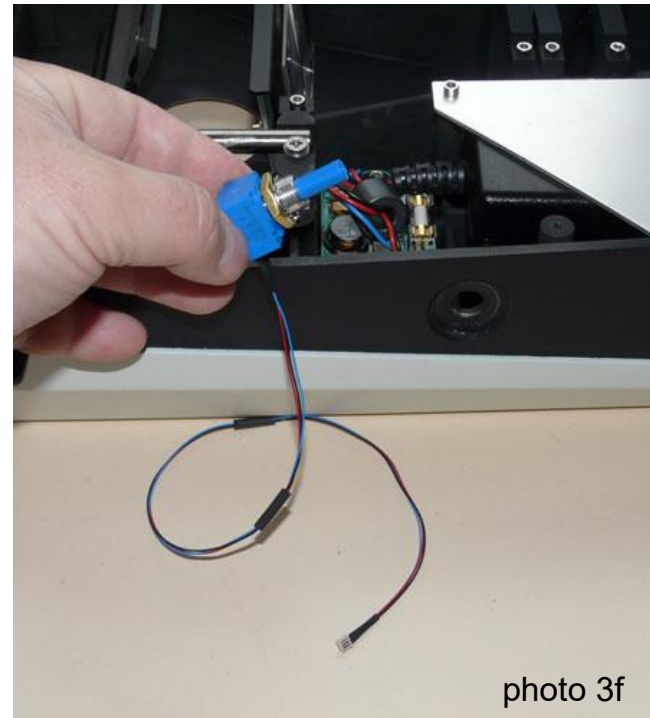


photo 3f

(4) Nanodyne new pot cable assembly.

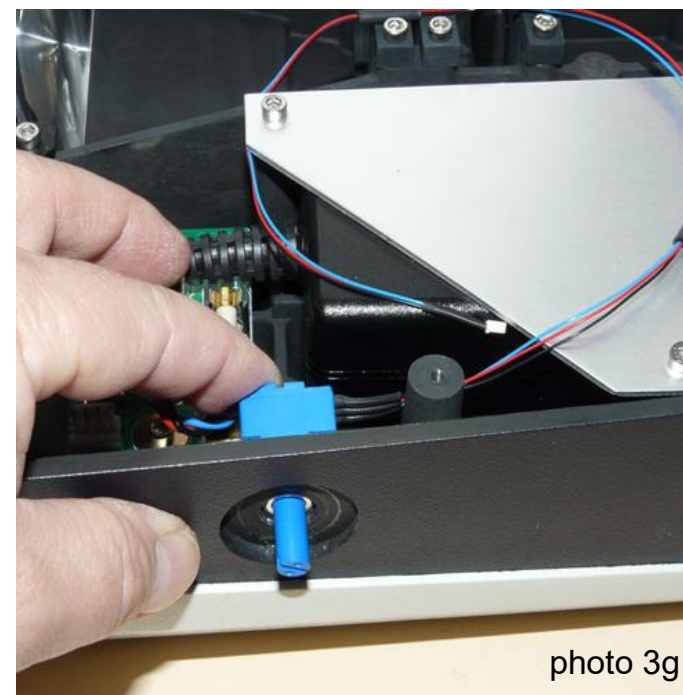


photo 3g

(5) Secure the new pot to the mounting hole. Use the original nut to tighten the pot by using socket or wrench.

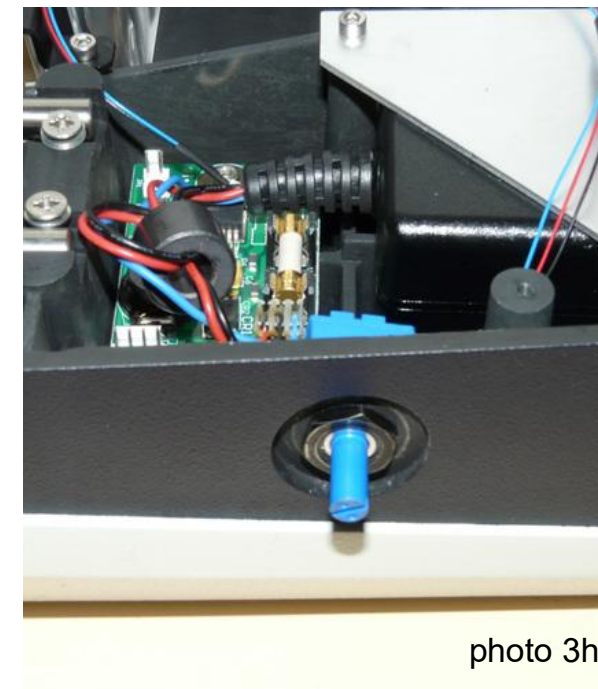


photo 3h

(3) Cut and remove the wire from "now-obsolete" original power supply assembly and circuit board (optional).

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

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Nanodyne Replacement Illuminator for Leica MDG33 Microscope Base Installation Instructions: Step 4. Install a New Potentiometer and Mount Nanodyne illuminator.

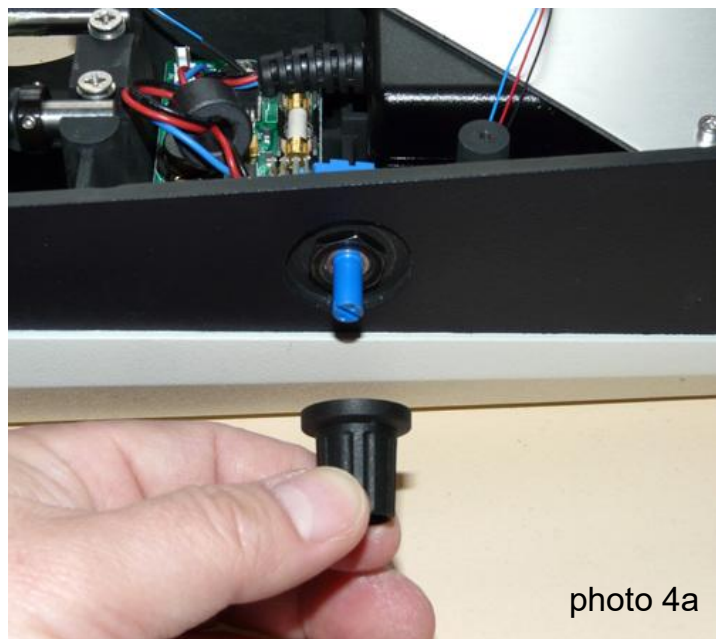


photo 4a

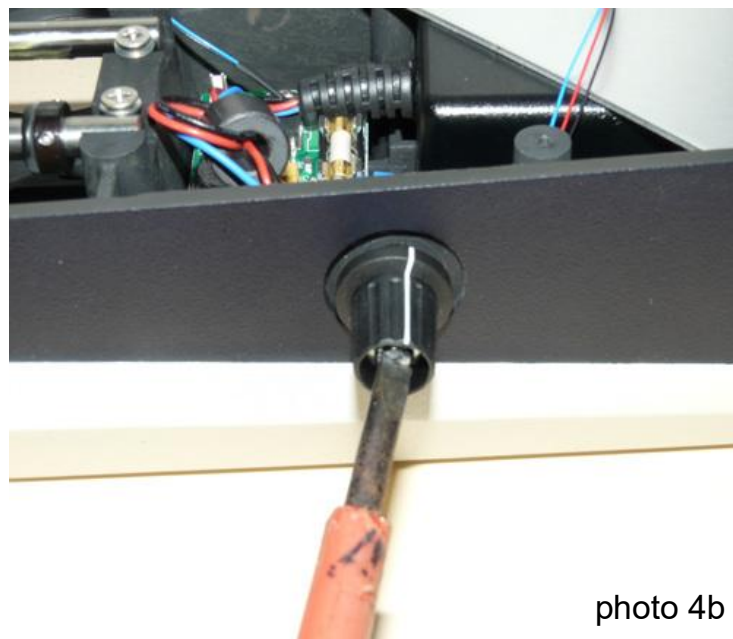


photo 4b

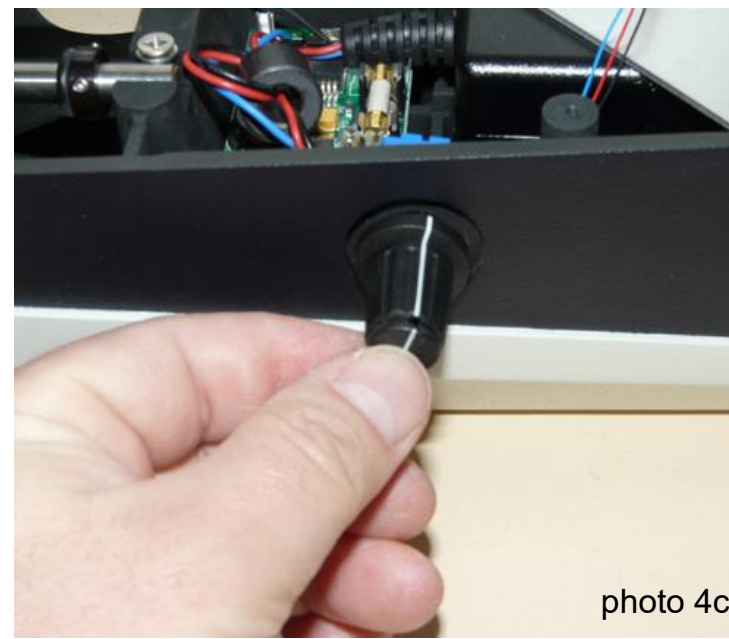


photo 4c



photo 4d

(1) Put the original knob back in place and tighten the screw.

(2) Re-install the knob cap back in place.

(3) Attach the aluminum adapter plate.



photo 4e

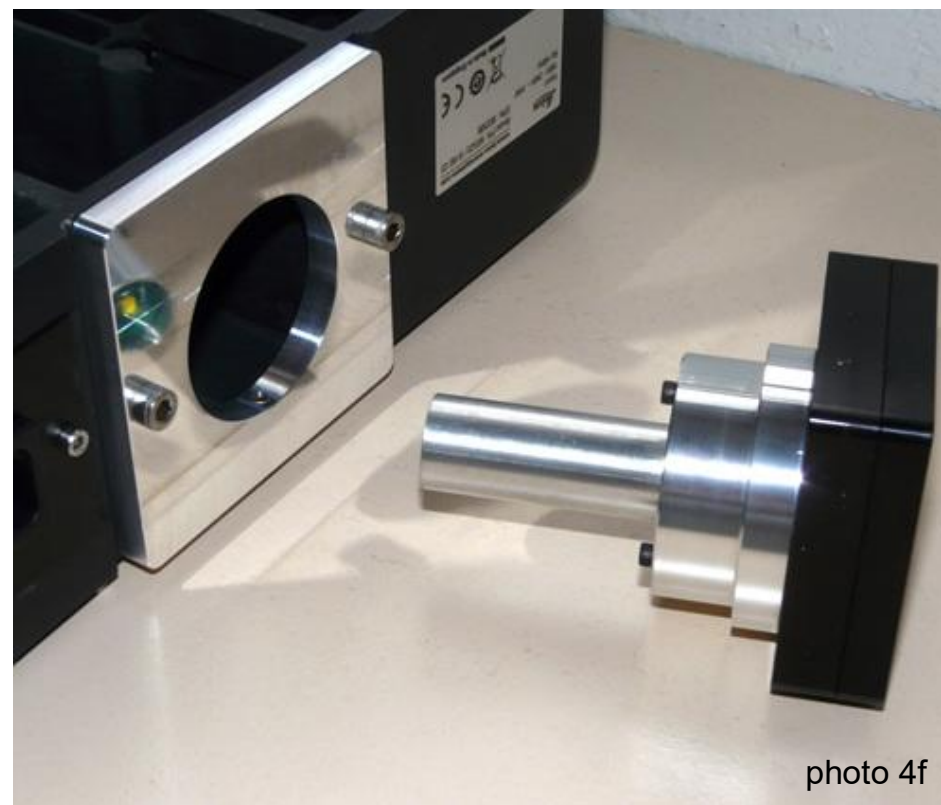


photo 4f

(4) Tighten the two M5 screws provided.

(5) Prepare to attach the Nanodyne illuminator assembly to the adapter.

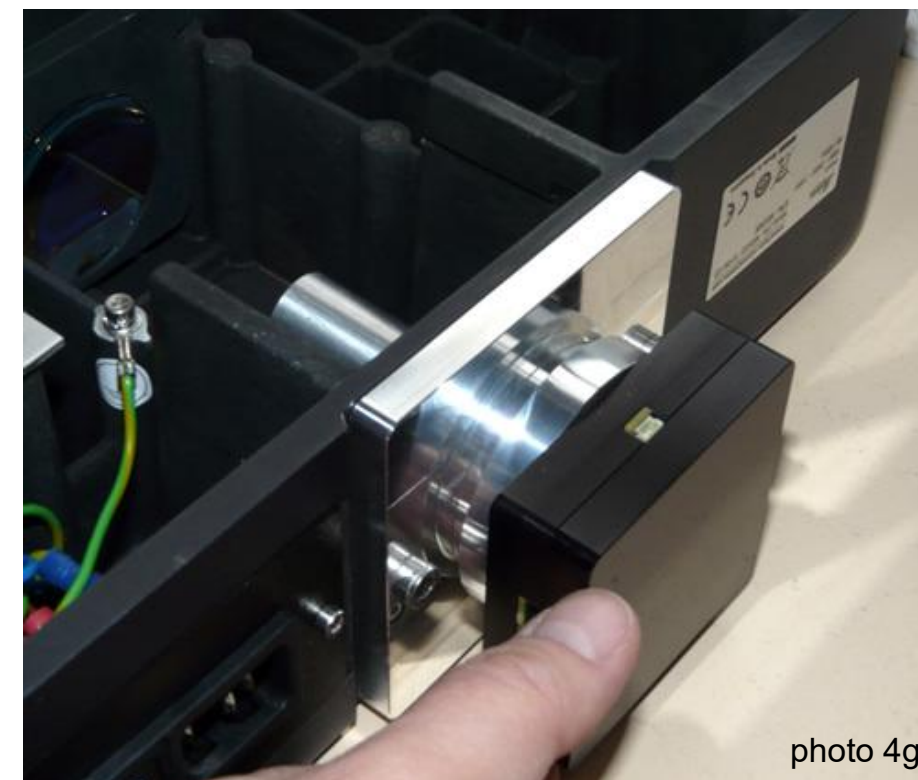


photo 4g

(6) Slide the Nanodyne illuminator assembly into the hole.

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Nanodyne Replacement Illuminator for Leica MDG33 Microscope Base Installation Instructions: Step 5. Secure Cables and Remove Unwanted Parts (Blue Filter or Diffuser).

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B

B

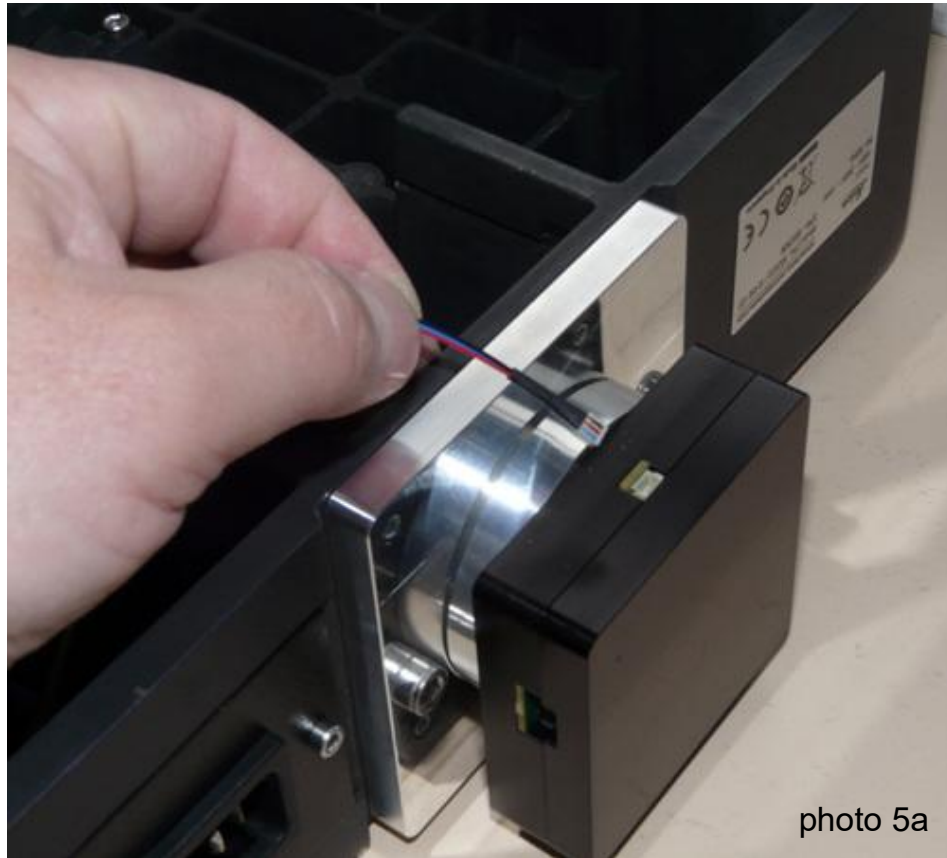


photo 5a

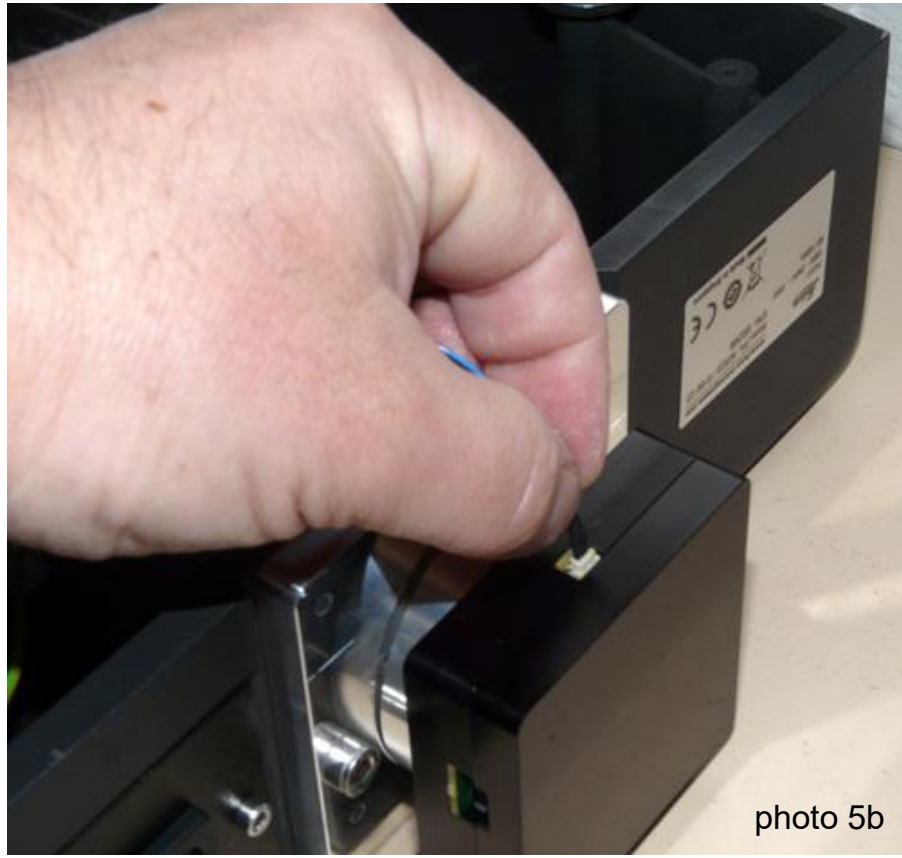


photo 5b

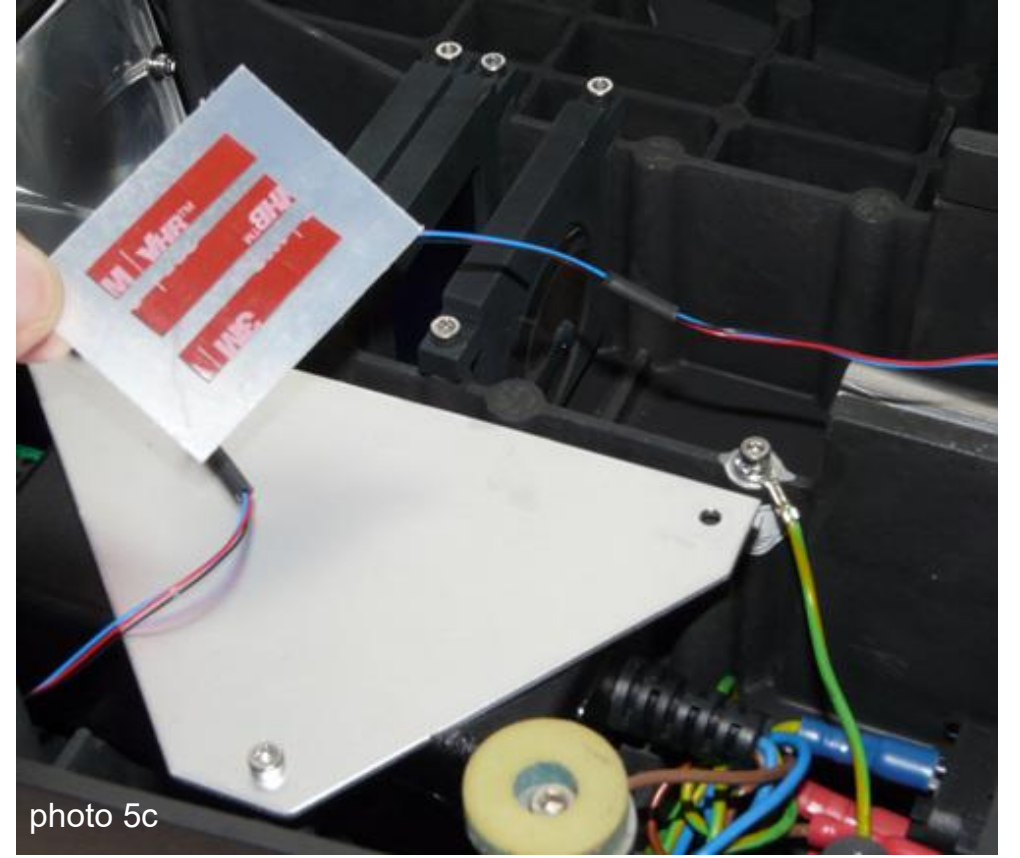


photo 5c

(1) Connect pot cable to the Nanodyne illuminator. Note that pot connector only goes one way. If it does not fit, turn 180 degree and insert it again until you hear click sound. Detailed instruction is shown in next page.

(2) Route and secure the cables using the 3M VHB tape provided as shown above.

A

A

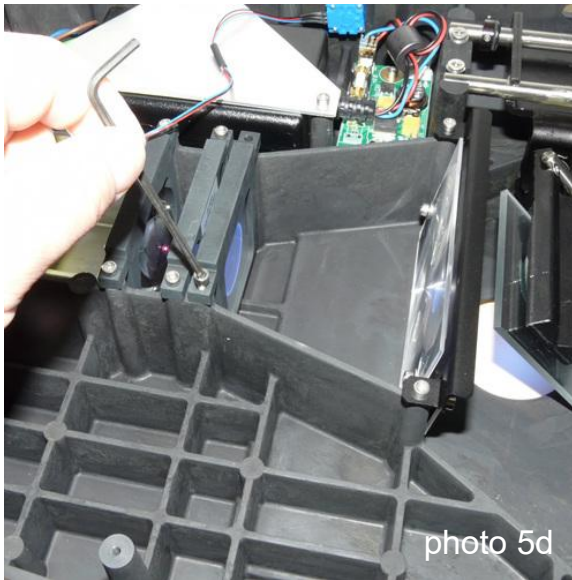


photo 5d

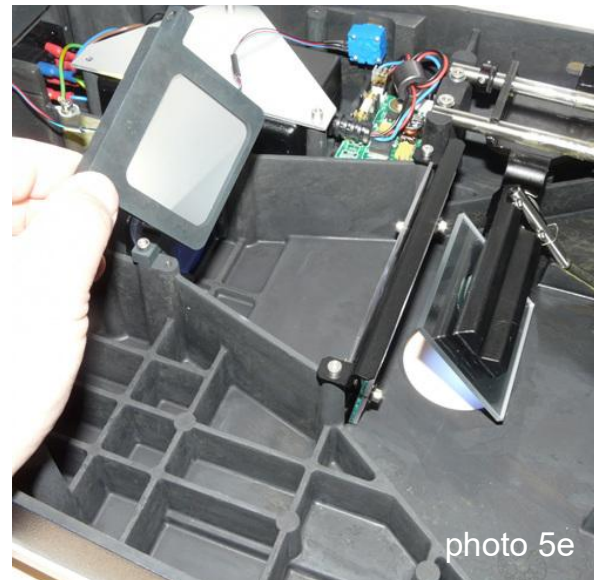


photo 5e

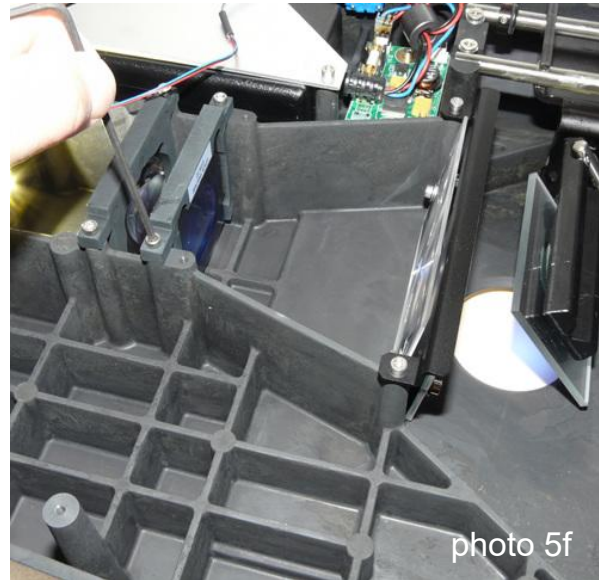


photo 5f

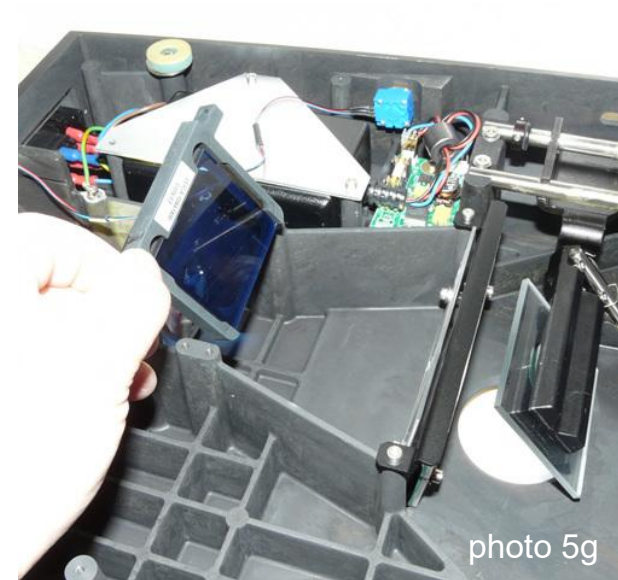


photo 5g

(3) Remove two screws.

(4) Remove diffuser (optional).

(5) Remove two screws.

(6) Remove blue filter (optional).

* Removing unwanted parts (diffuser or blue filter) is optional. It depends on your specific needs.

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Nanodyne Replacement Illuminator for Leica MDG33 Microscope Base Installation Instructions: Pot Cable Connection Details

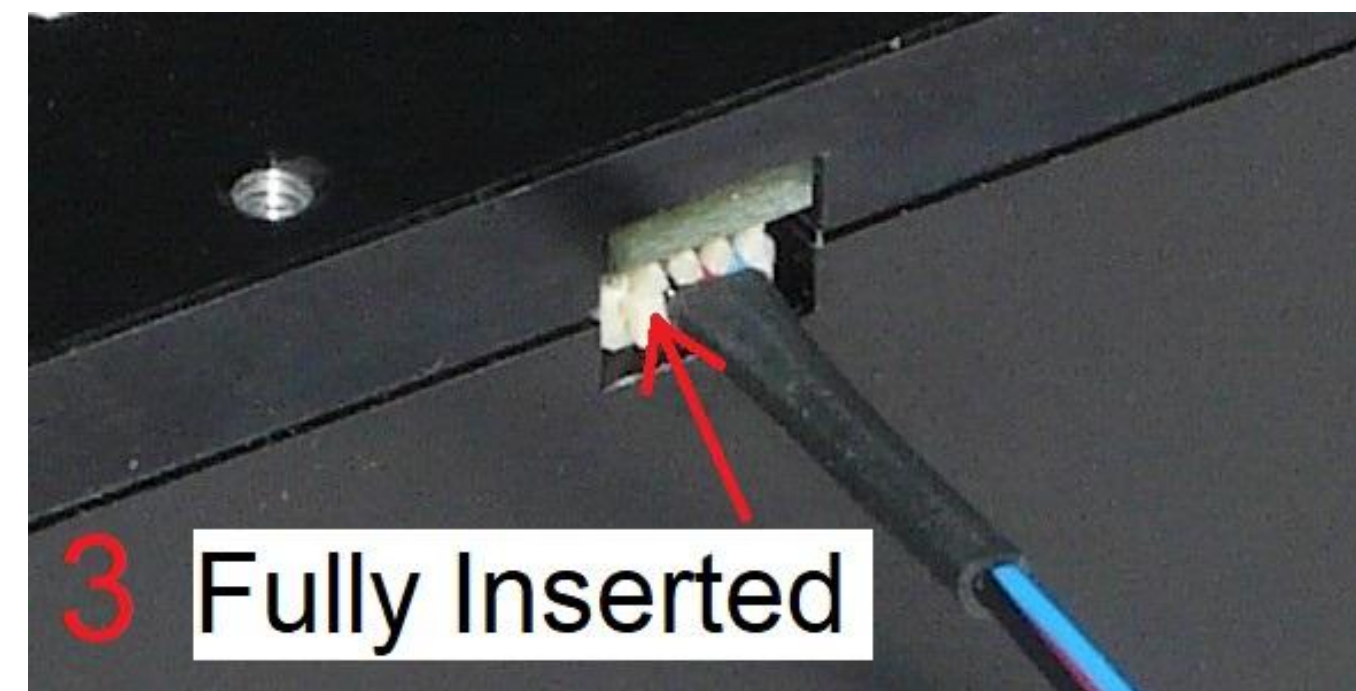
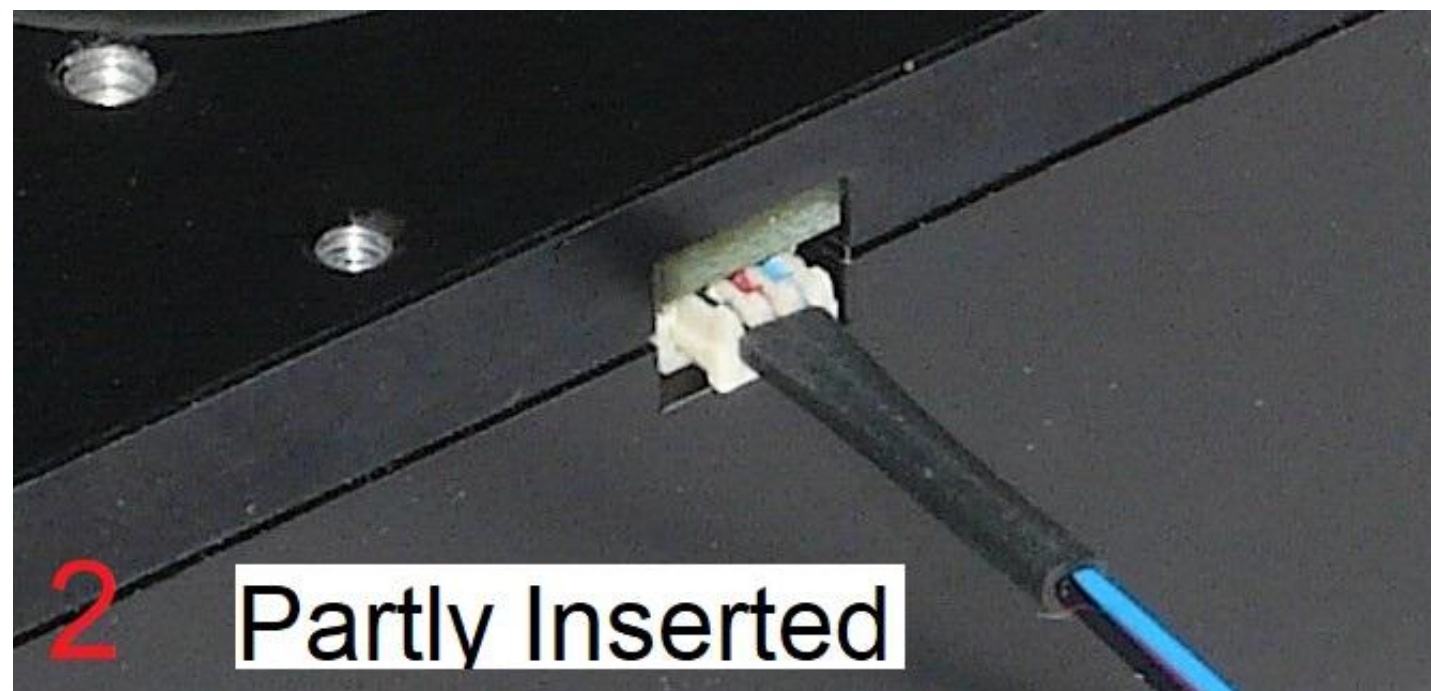
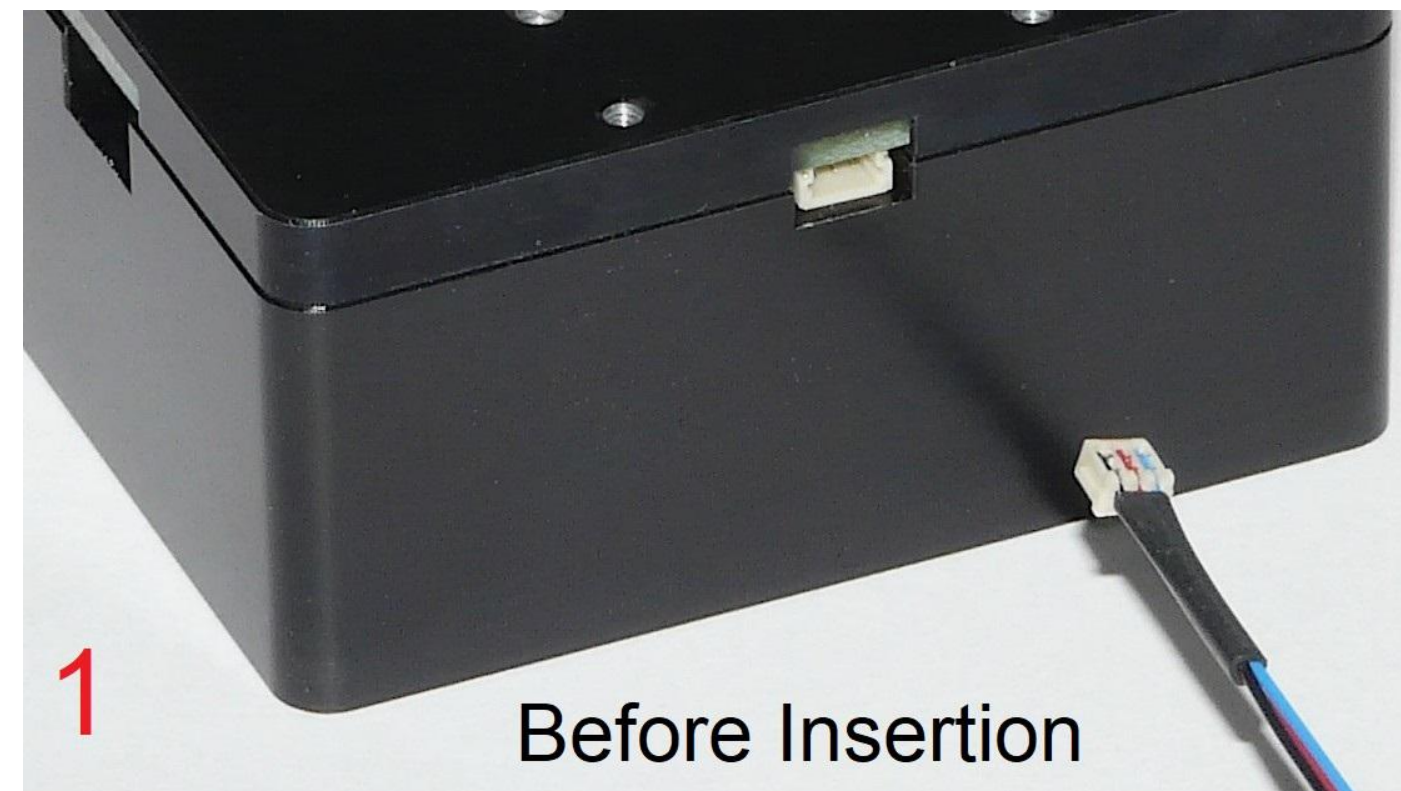
Connect the plug at the end of the Pot Cable Assembly to the mating socket of the illuminator, as shown in the pictures on this page. NOTE THAT THE PLUG IS KEYED TO ONLY GO INTO THE SOCKET ONE WAY, AS SHOWN.

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.



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Nanodyne Replacement Illuminator for Leica MDG33 Microscope Base Installation Instructions: Step 6. Connect the Power Supply.

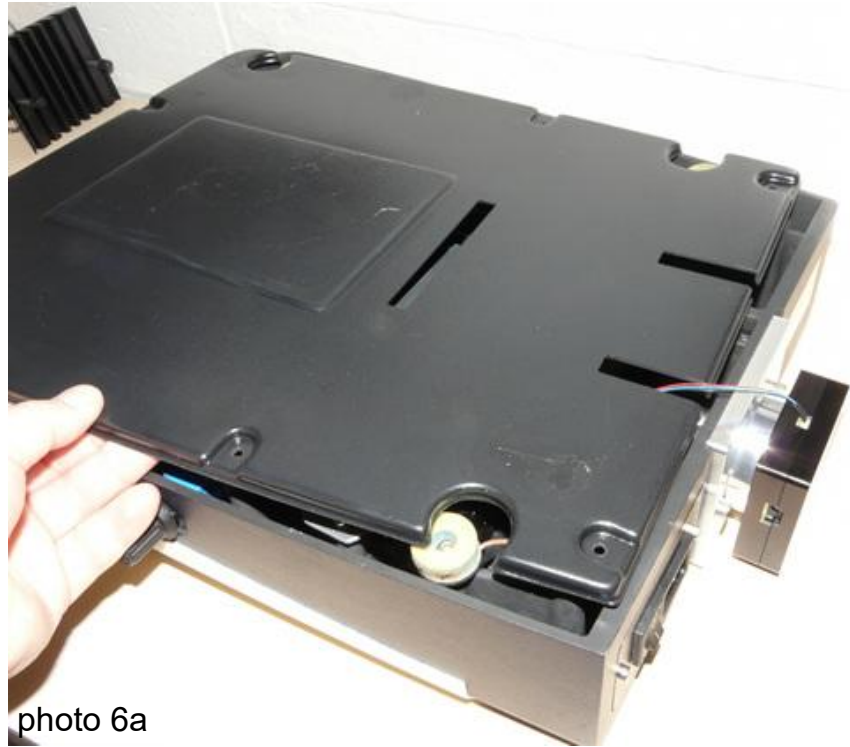


photo 6a

(1) Place bottom cover back and tighten the screws.

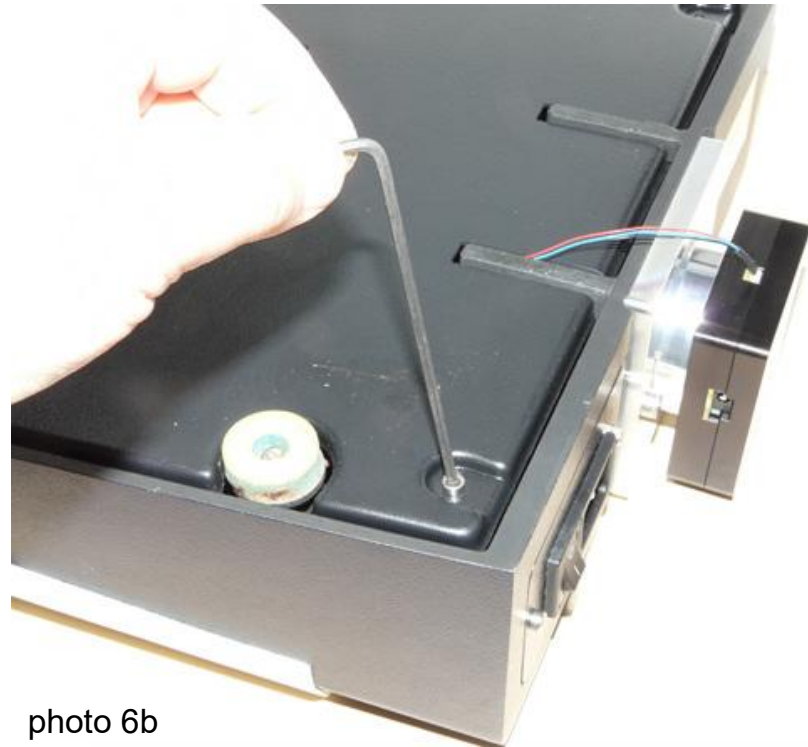


photo 6b

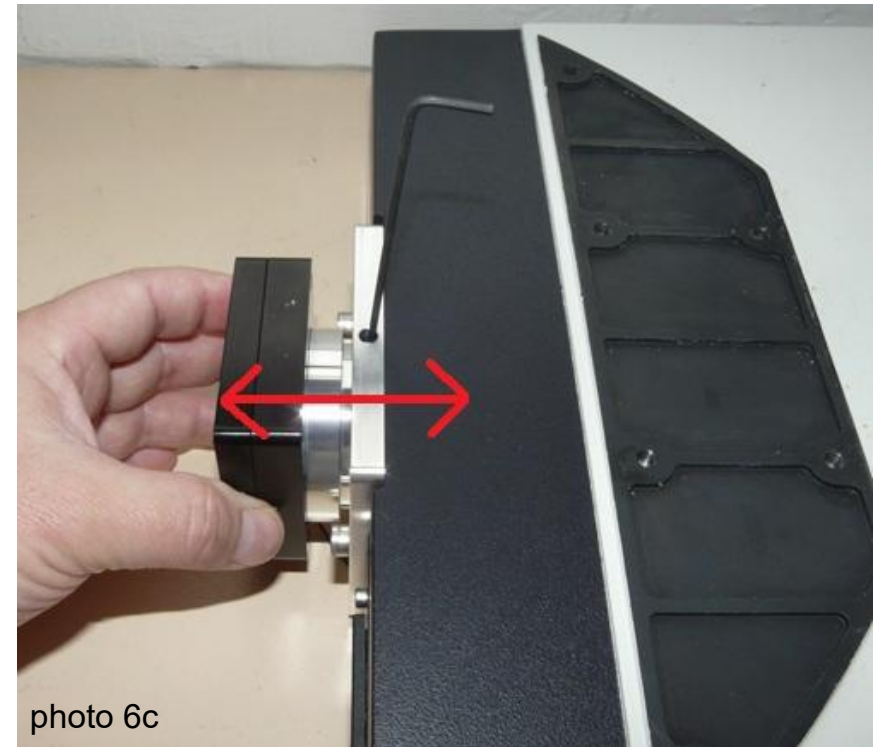


photo 6c

(2) There is a room for sliding in and out the illuminator to adjust focus if needed, then tighten the set screw.



photo 6d

(3) Install the AC blocking rubber plug in the obsolete AC power receptacle.



photo 6e

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

(5) Plug in the power supply and the new illuminator is ready to operate. (photo not shown)

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