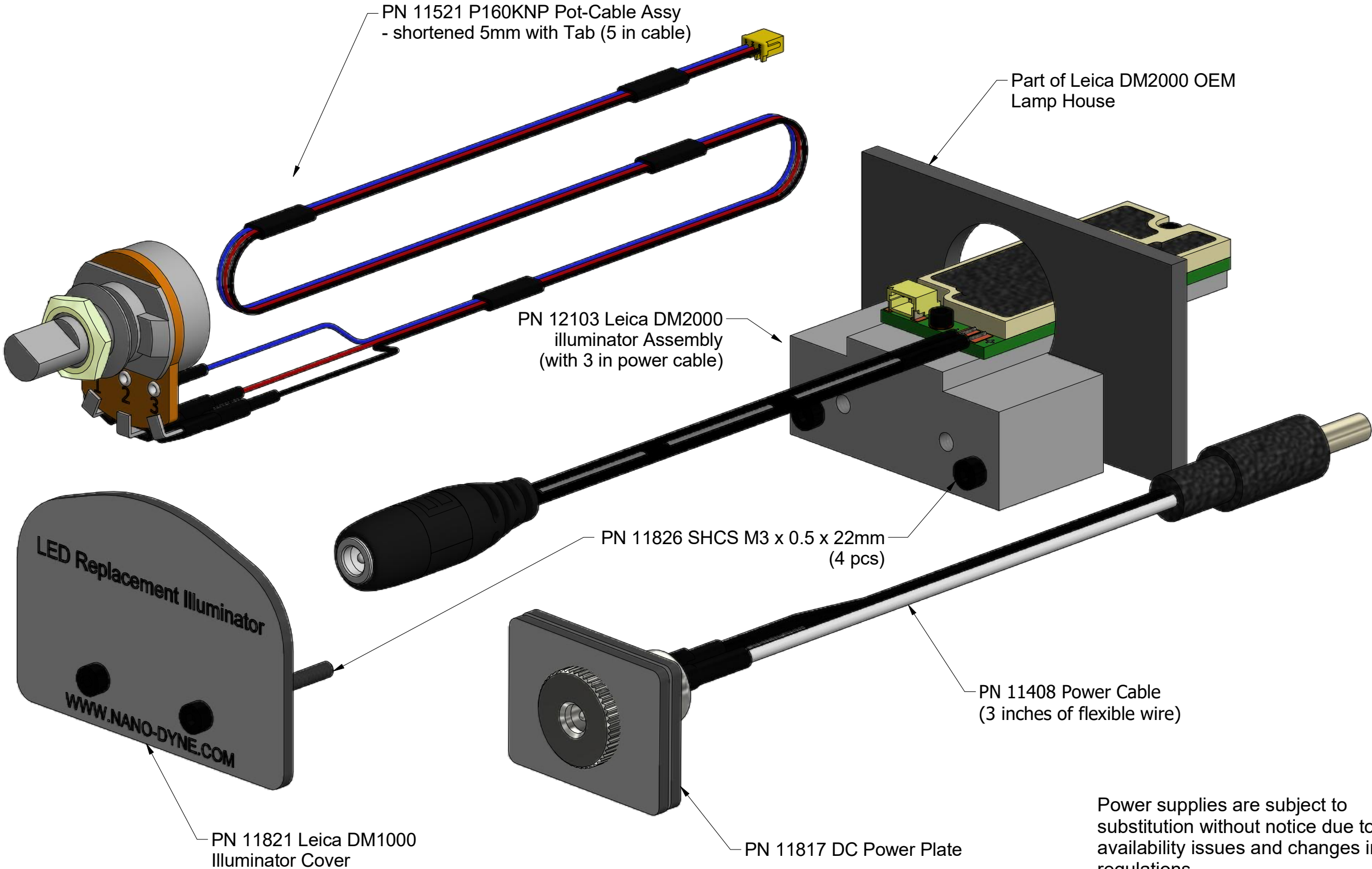


Nanodyne Replacement Illuminator for Leica DM2000 Microscope Installation Instructions: Included Items

Additional Items Included But Not Shown:

PN 10457 Hex Key 2.5mm Short Arm for M3 SHCS



PN 10736 Rubber plug to block unused AC power receptacle.



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.

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

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Nanodyne Replacement Illuminator for Leica DM2000 Microscope Installation Instructions: Step 1. Remove bottom cover.



photo 1a



photo 1b

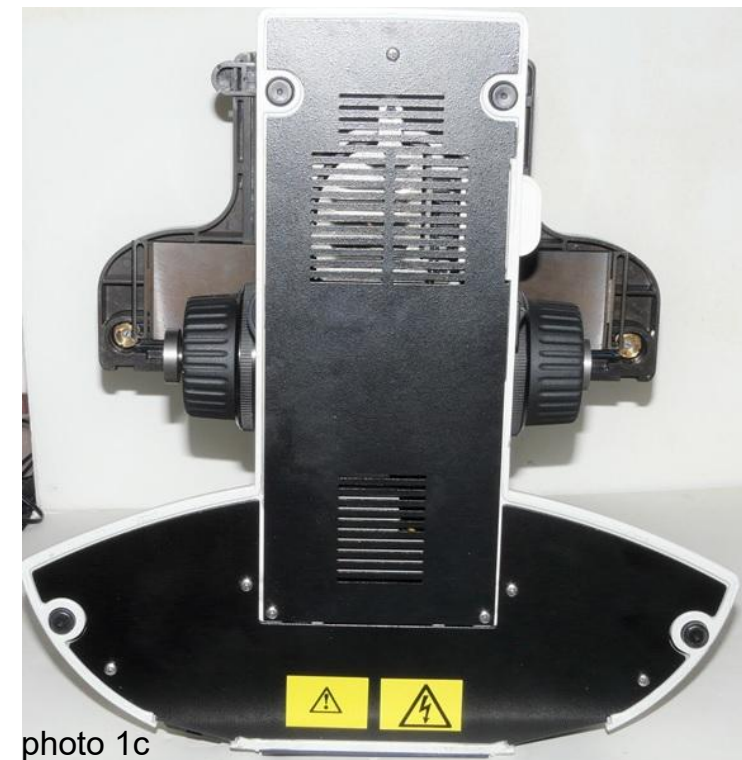


photo 1c

The photos 1a and 1b show the microscope frame this illuminator system was designed for. The unit we obtained for these photos is a microscope frame sent from a customer.

Flip the microscope to face bottom cover.

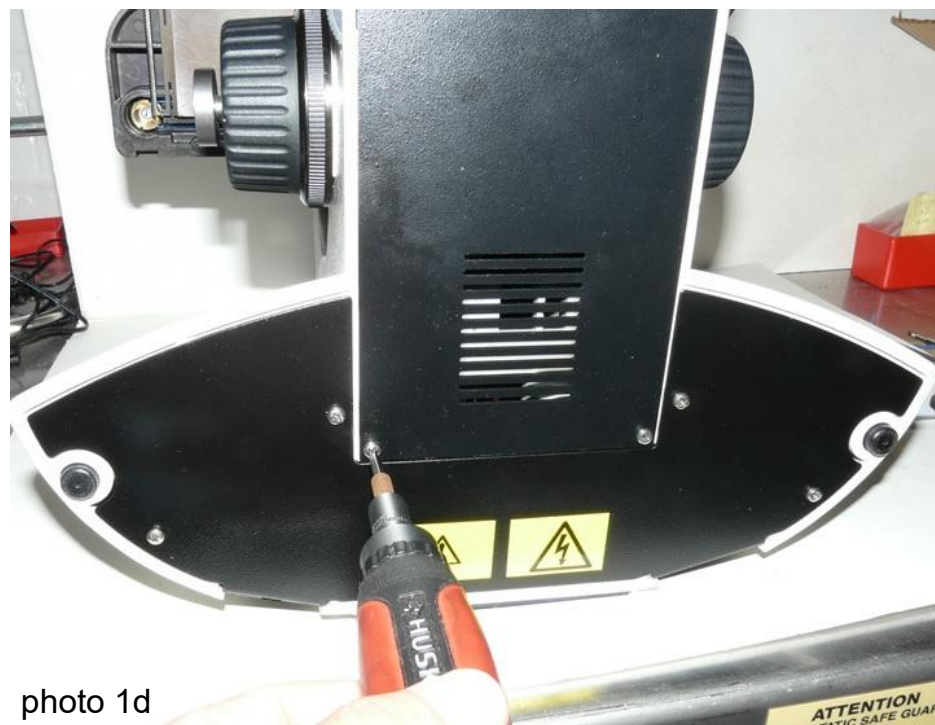


photo 1d

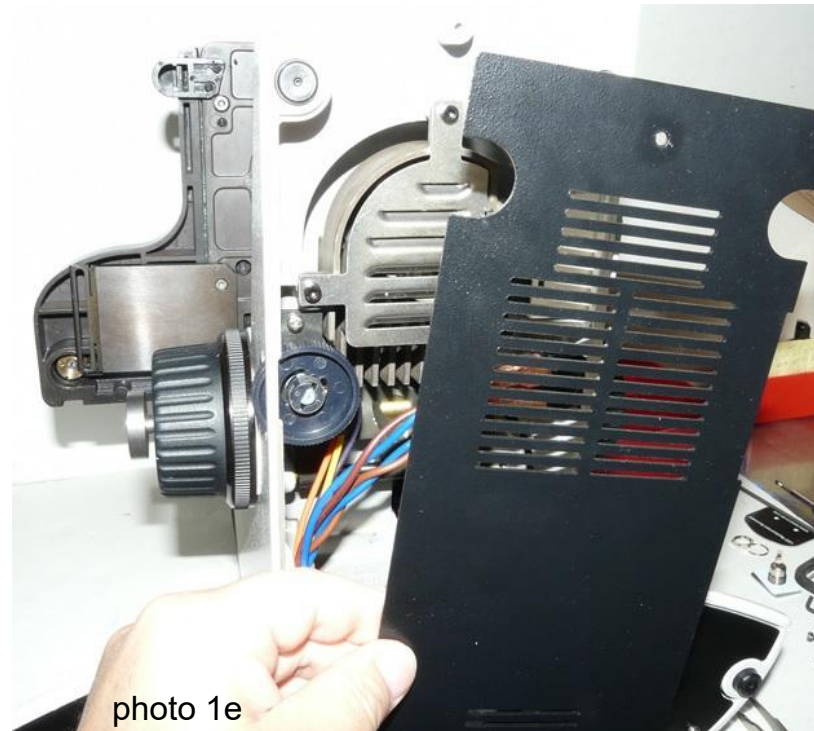


photo 1e

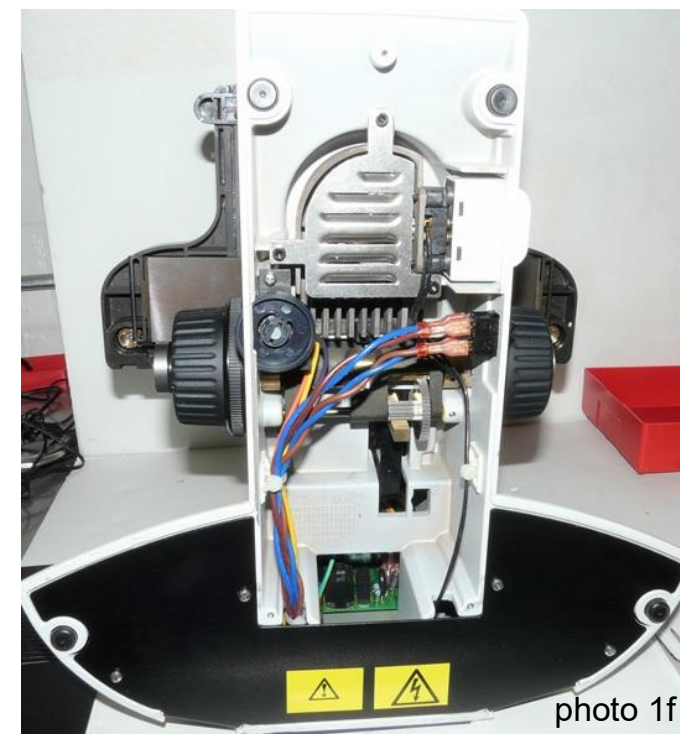


photo 1f

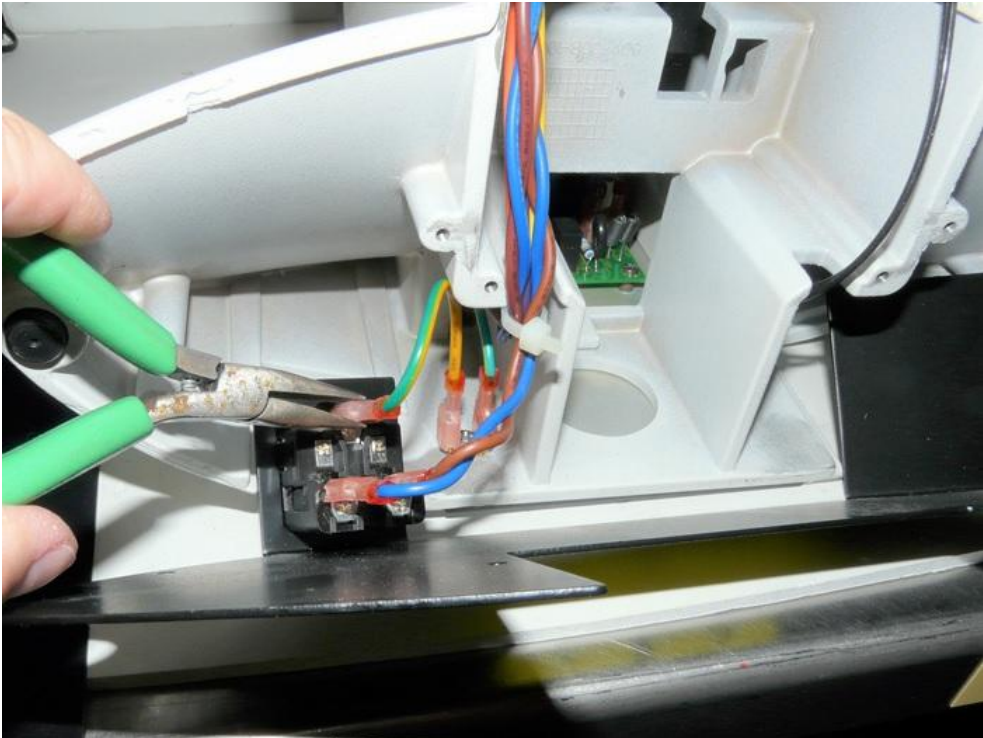
Unscrew and remove the bottom cover-1.

Bottom cover-1 removed.

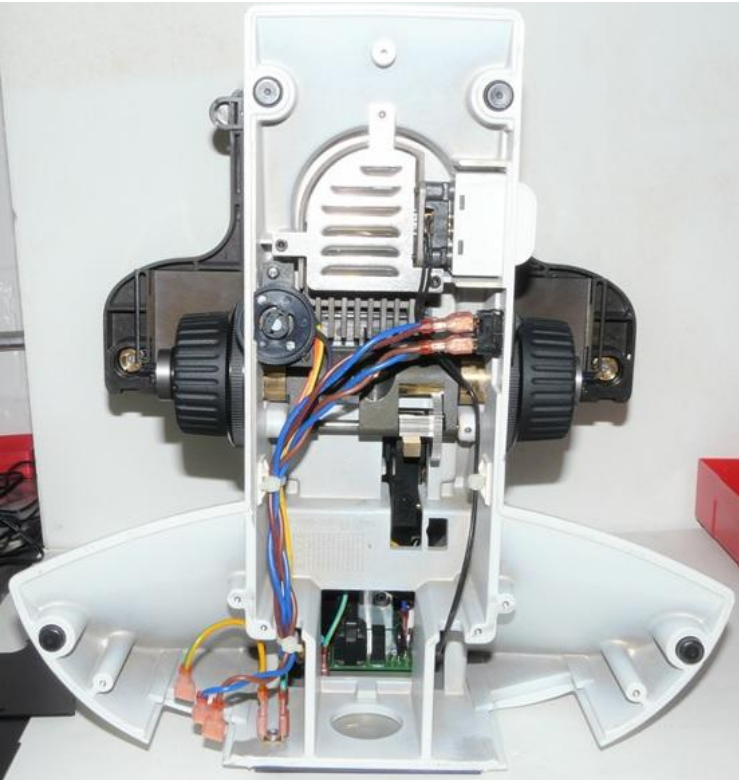
Nanodyne Replacement Illuminator for Leica DM2000 Microscope Installation Instructions: Step 2. Remove bottom cover and old electrical wiring.



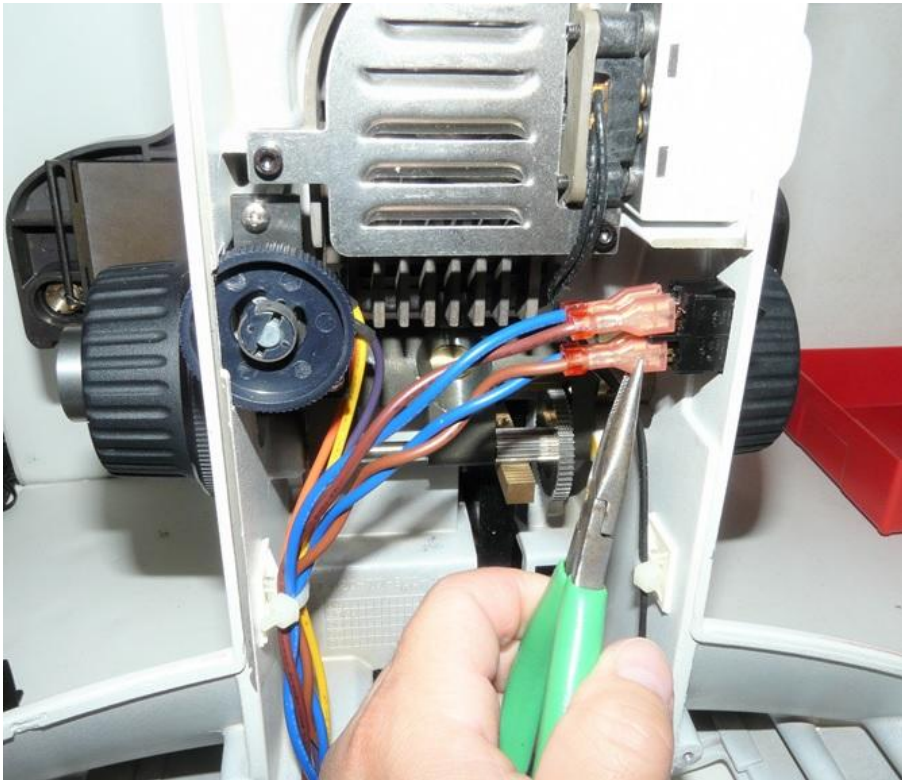
Unscrew and remove the bottom cover-2.



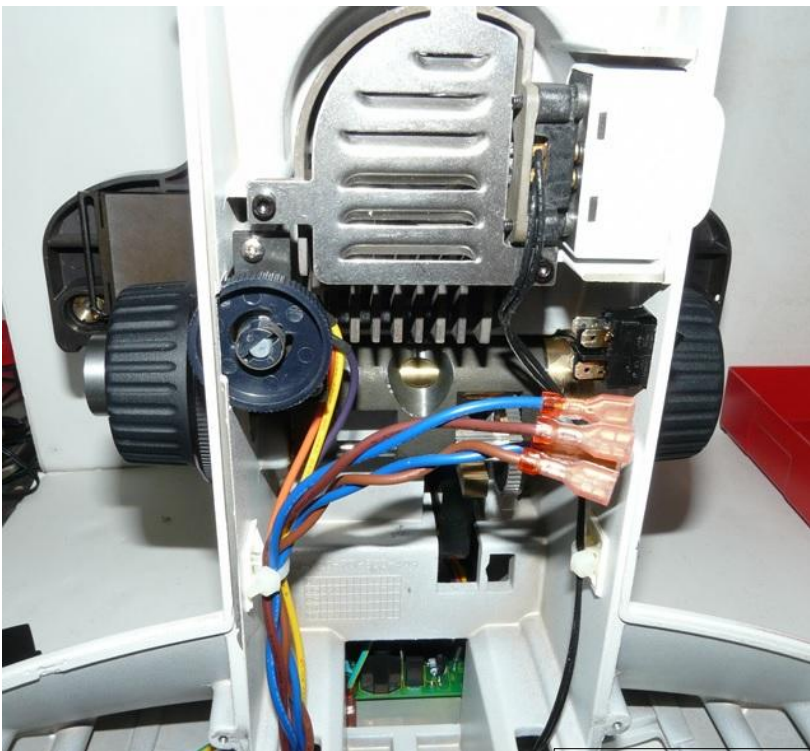
Unplug the electrical wiring from the AC power receptacle.



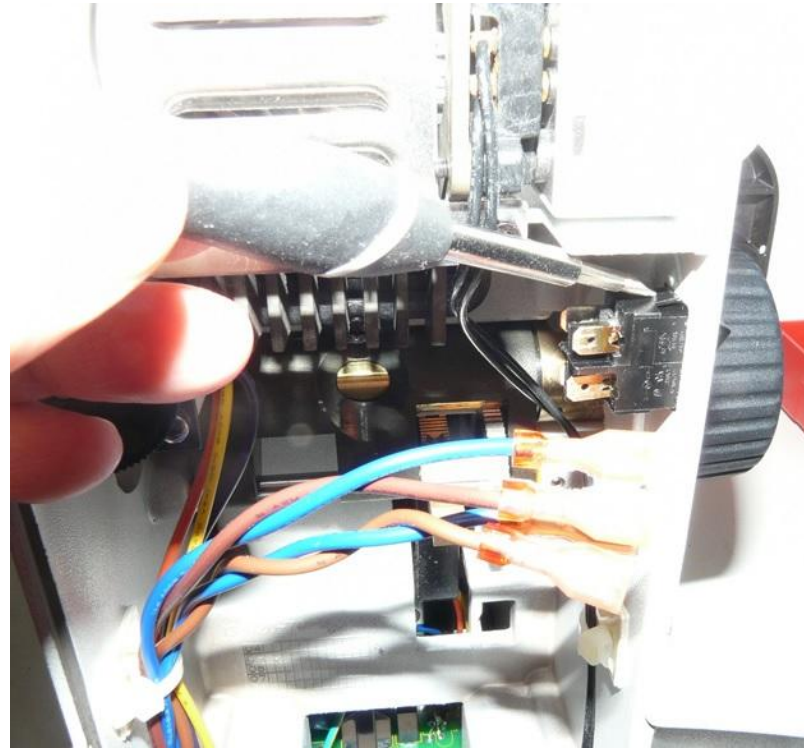
Bottom cover-1 & 2 completely removed.



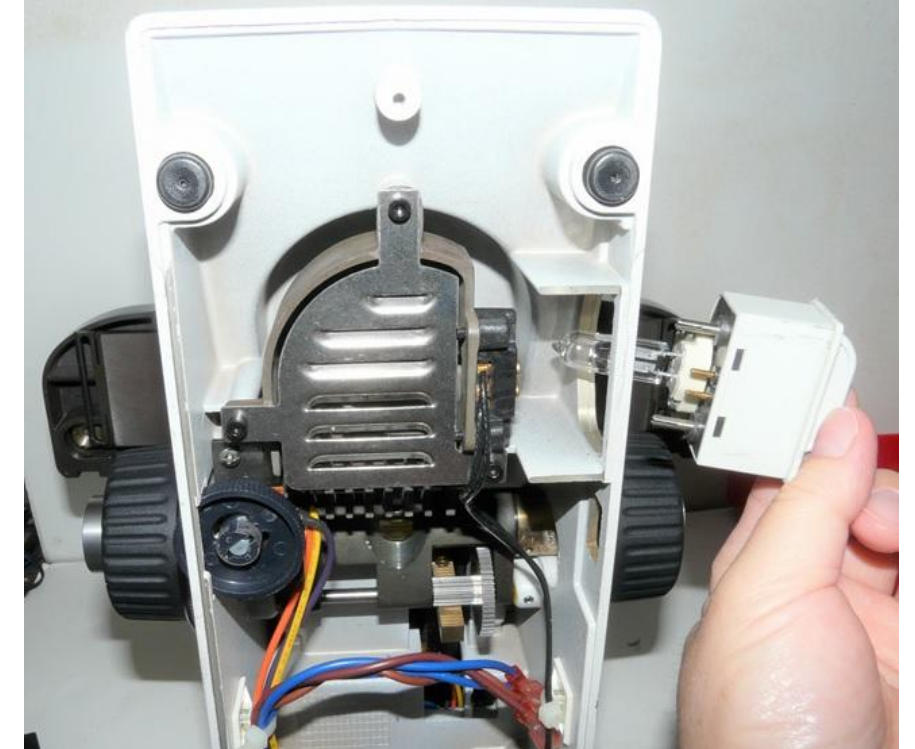
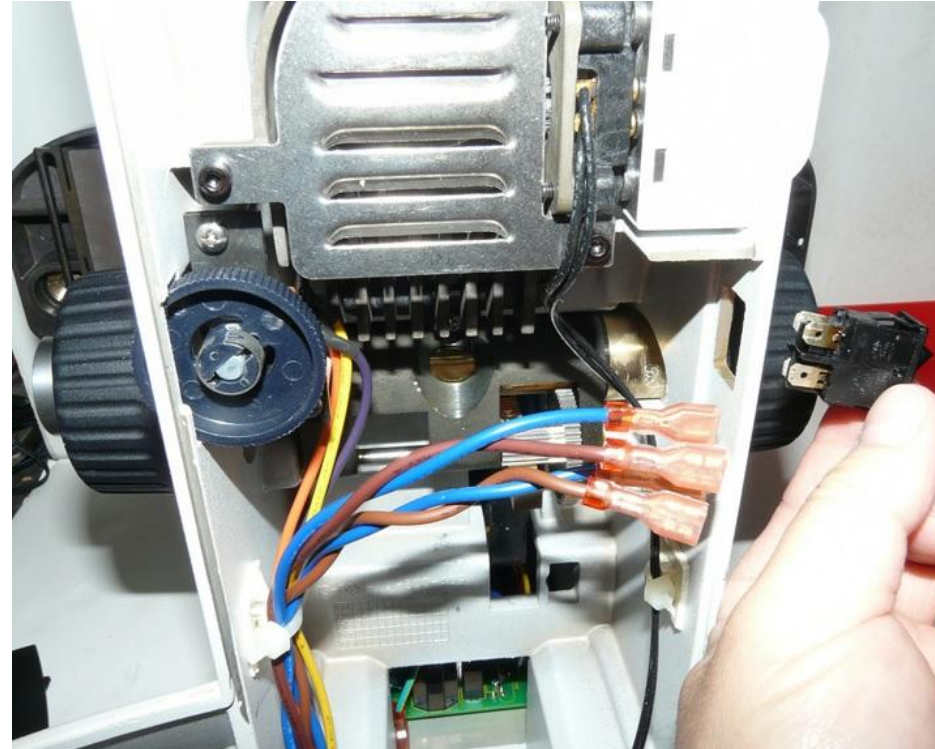
Unplug the electrical wiring from the AC switch.



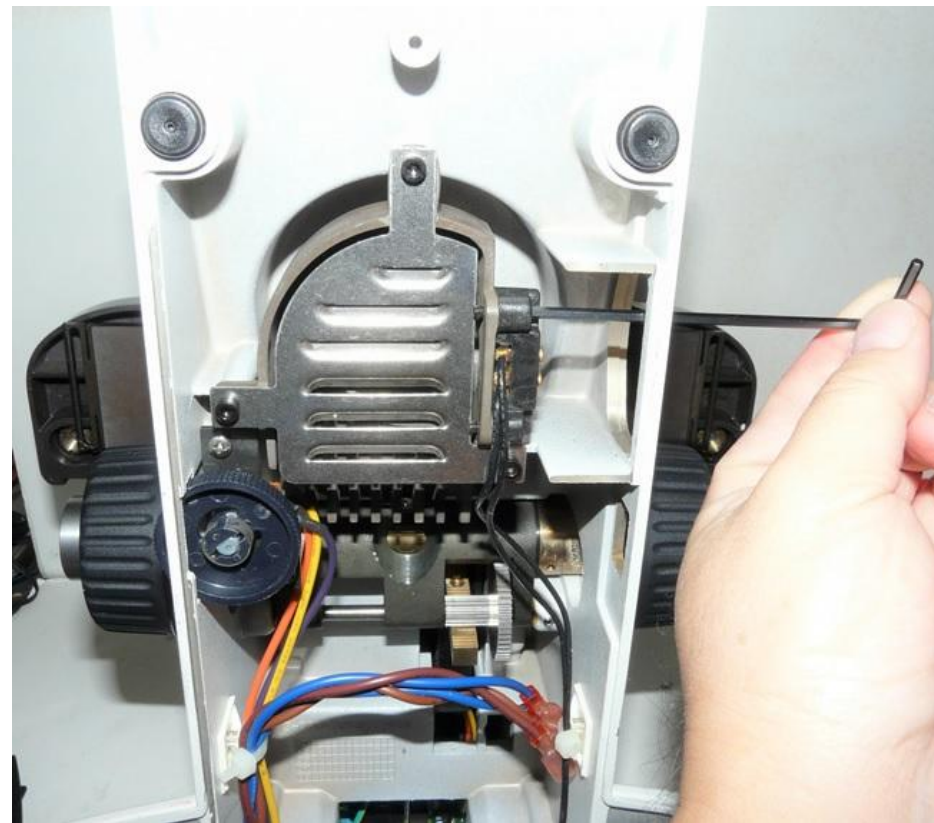
Nanodyne Replacement Illuminator for Leica DM2000 Microscope Installation Instructions: Step 3. Remove old lamp, socket and old electrical wiring.



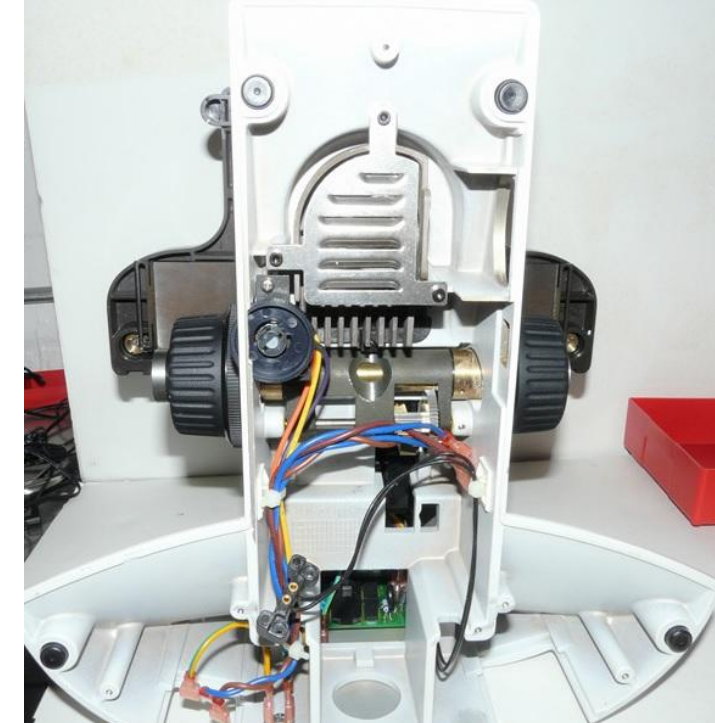
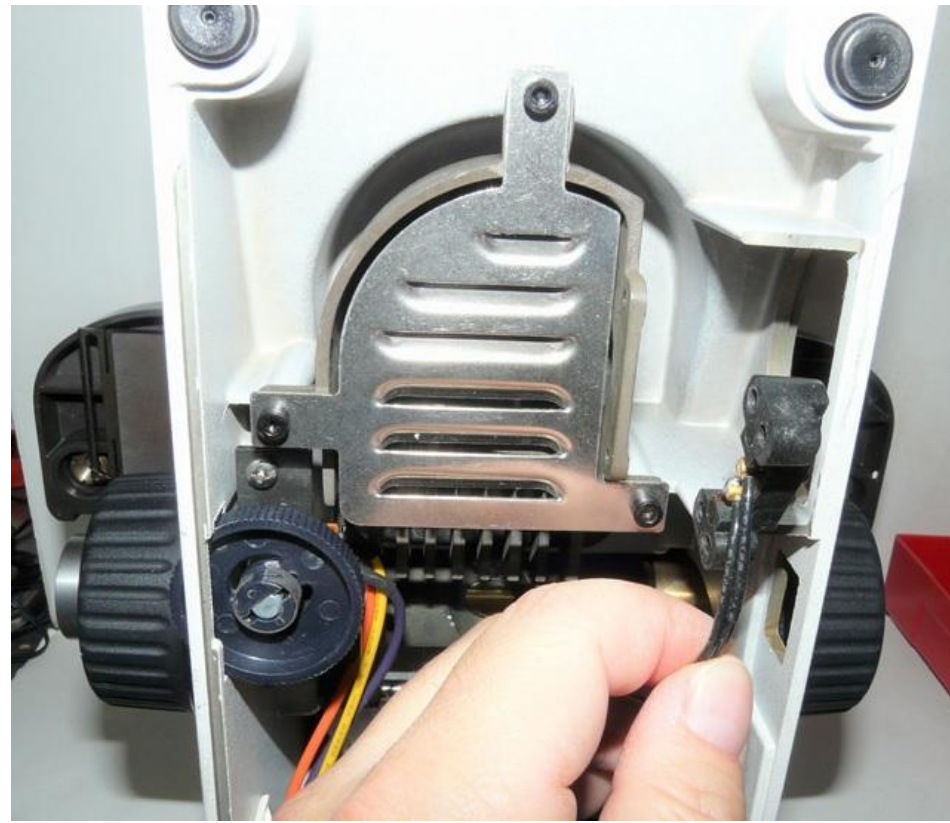
Depress the plastic clips on each side of the AC power switch and push it out.



Remove the OEM lamp from the socket.



Unscrew and remove the OEM lamp socket as shown above.



OEM lamp and socket removed.

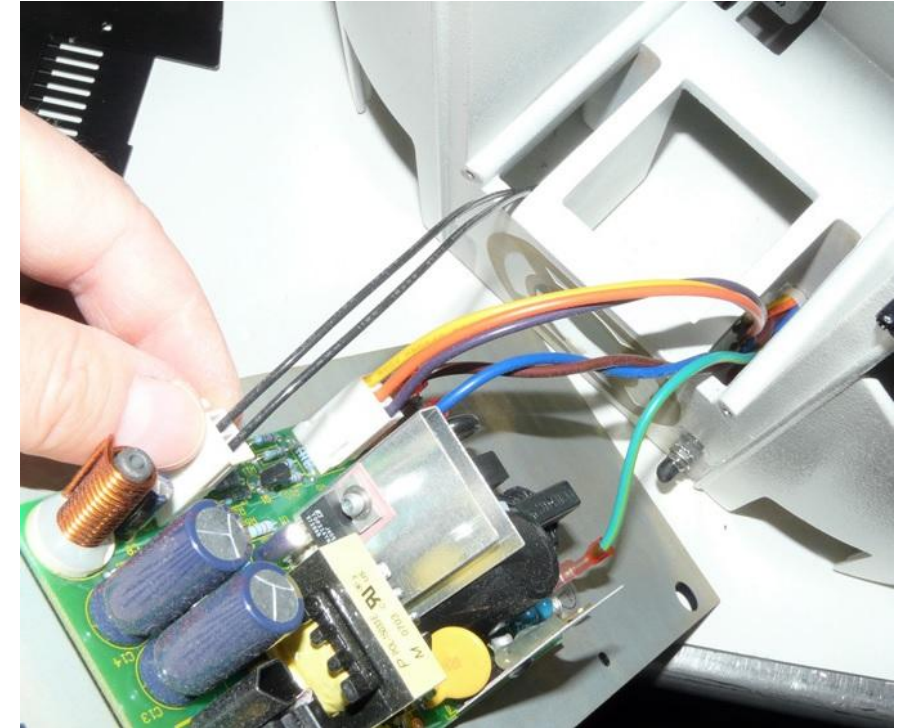
Nanodyne Replacement Illuminator for Leica DM2000 Microscope Installation Instructions: Step 4. Remove old potentiometer and electrical wiring.



Flip the microscope to face back cover.



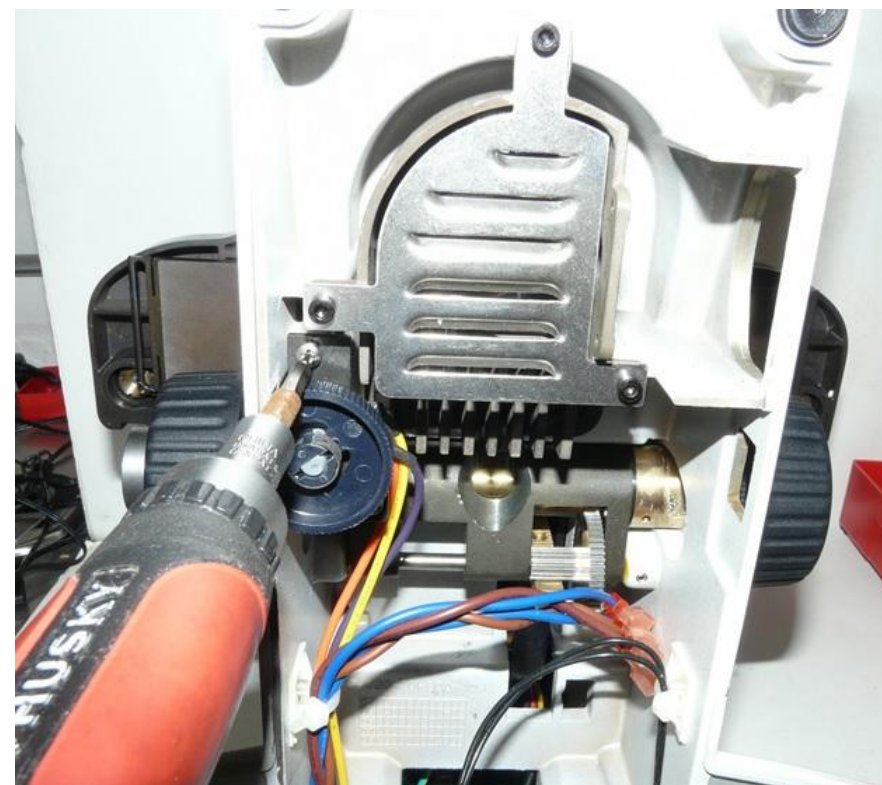
Unscrew and remove the back cover.



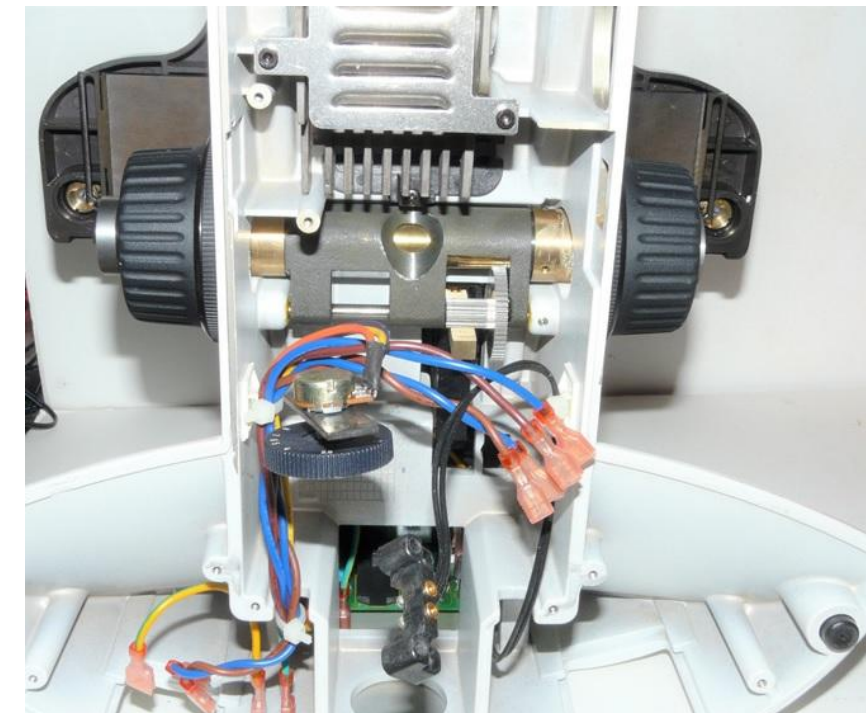
Disconnect the cables connected to the OEM illuminator circuit board, and remove unneeded electrical wiring.



Reinstall the back cover.



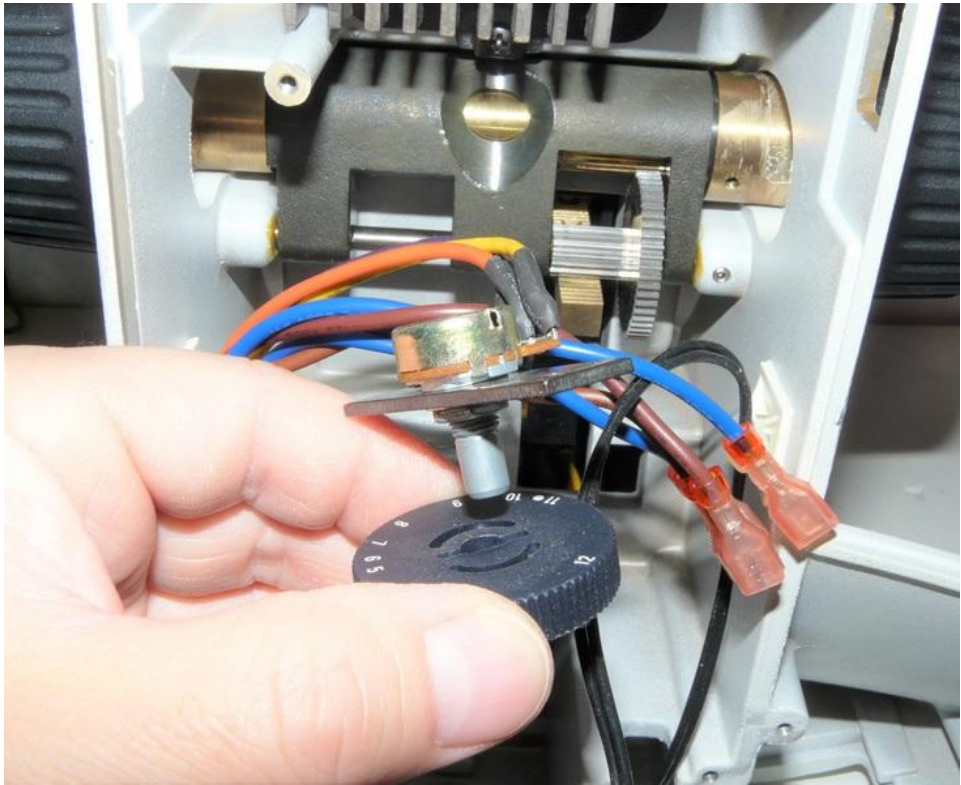
Unscrew to remove the old potentiometer. Keep the original screws for the later installation. Remove the metal bracket holding potentiometer.



*Note: OEM lamp, socket and original electrical wirings are now obsolete and can be completely removed. The reason those wirings were kept in the photos is that the microscope is rented unit.

4 3 2 1
Nanodyne Replacement Illuminator for Leica DM2000 Microscope Installation Instructions: Step 5. Remove old potentiometer (continued) and install new potentiometer.

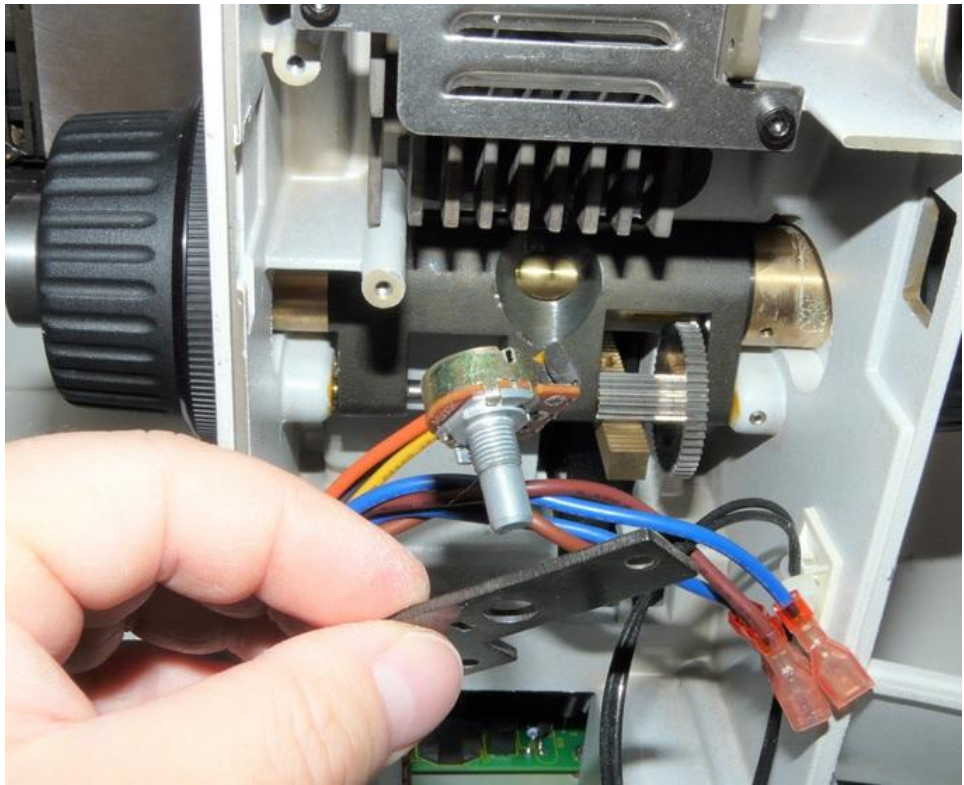
B



Remove the adjustment knob. Keep the knob to install on the replacement adjustment potentiometer.

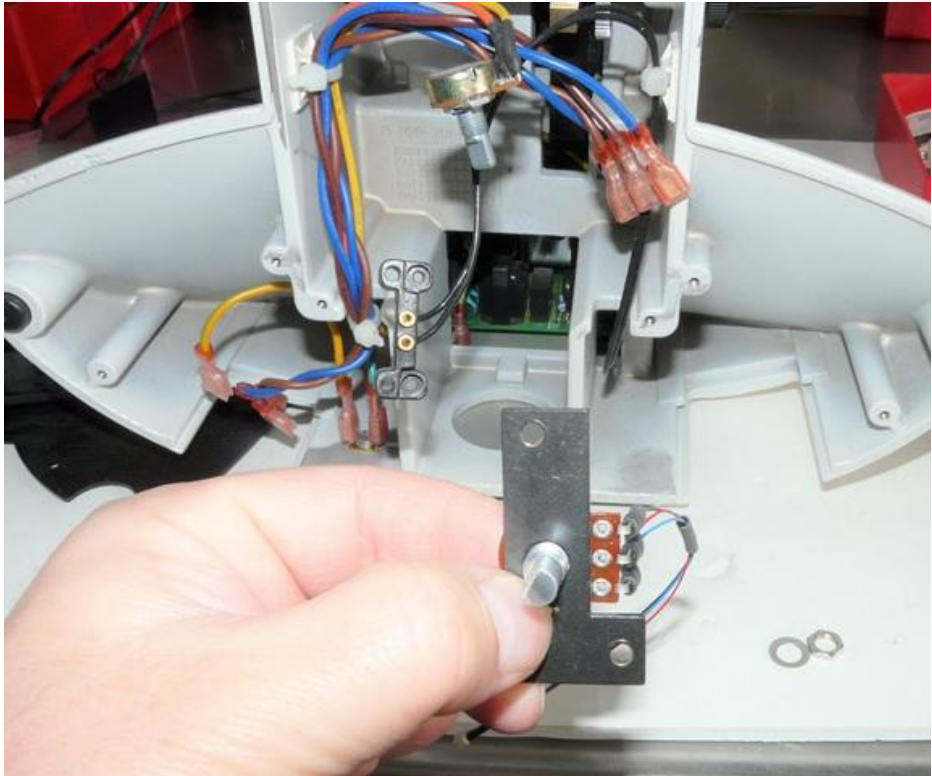


Loosen the nut using a wrench or socket. Unscrew to remove the old potentiometer.

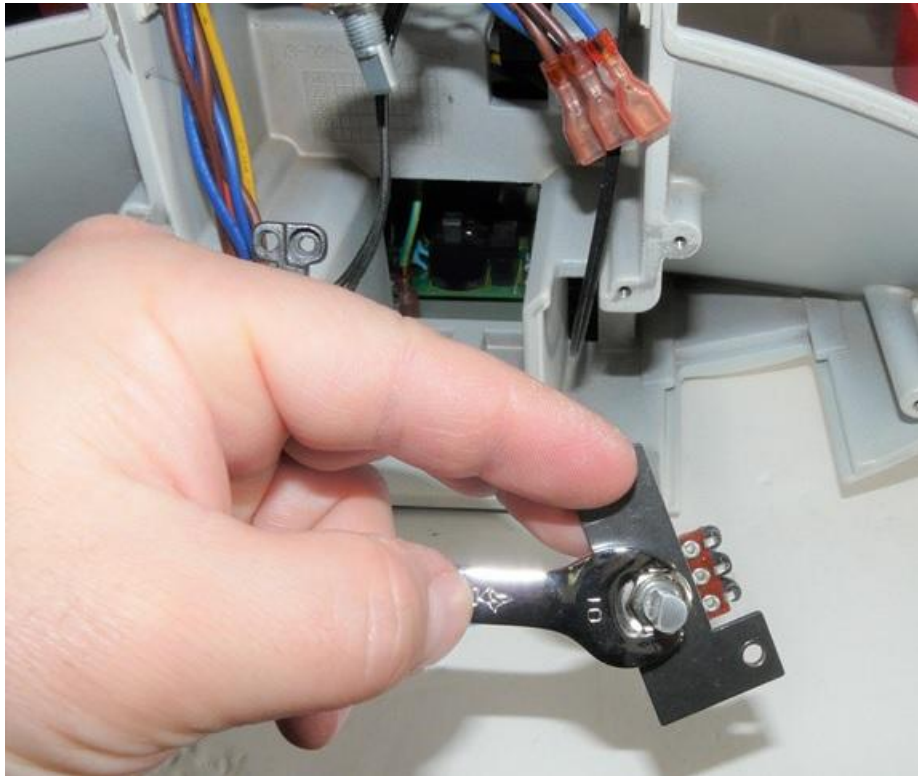


Remove the old potentiometer. Keep the black metal bracket for the later installation.

A



Secure the new potentiometer to the mounting bracket.



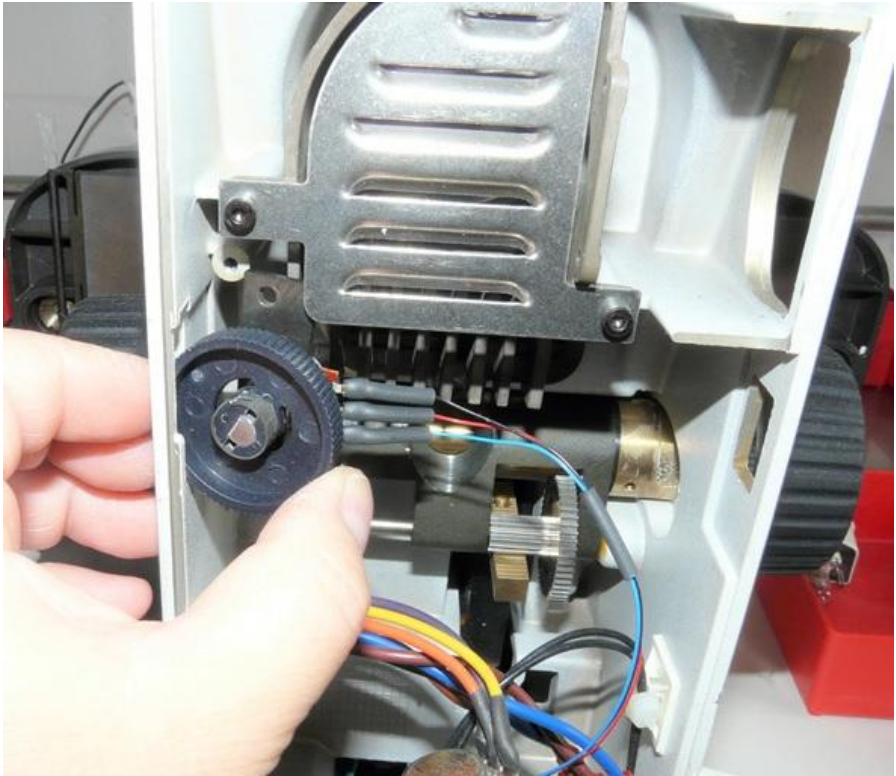
Use a 10mm socket or wrench to tighten it.



Re-install the original knob.

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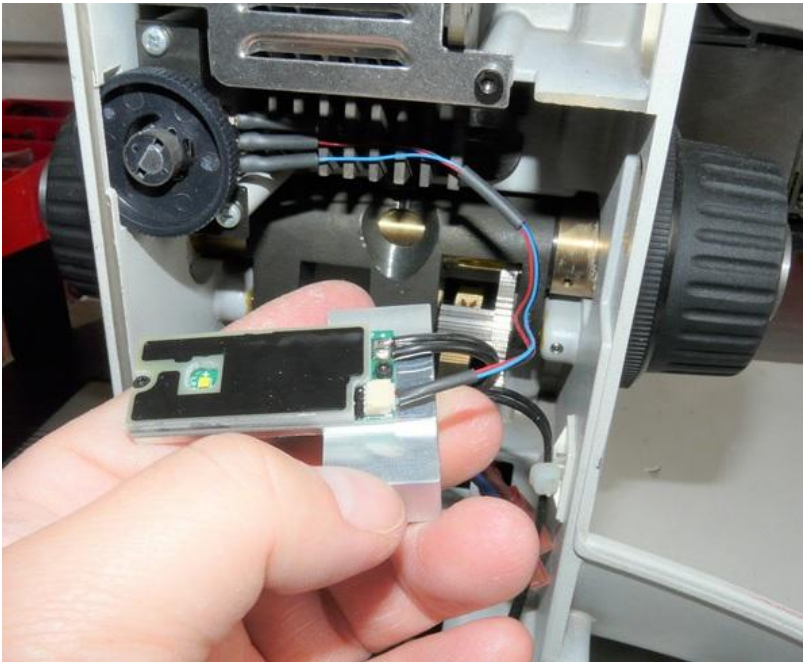
Nanodyne Replacement Illuminator for Leica DM2000 Microscope Installation Instructions: Step 6. Mount Nanodyne illuminator assembly on the original lamp housing.



Re-install the potentiometer mounting bracket using original screws.

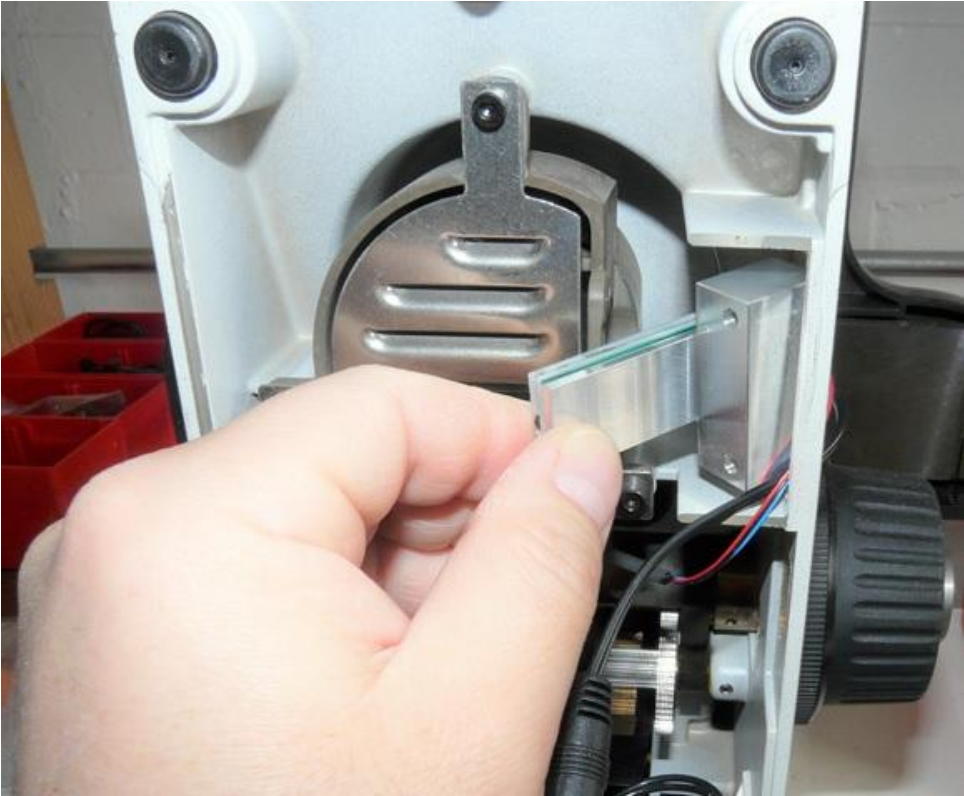


Connect a new pot cable to the Nanodyne illuminator assembly.



Fully insert the connector until hearing a little click sound. 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.

***Note: Pot connector is keyed to go in one way. If it doesn't fit, do not force it but just flip 180 degree.**



Insert the Nanodyne illuminator assembly to the original lamp housing.



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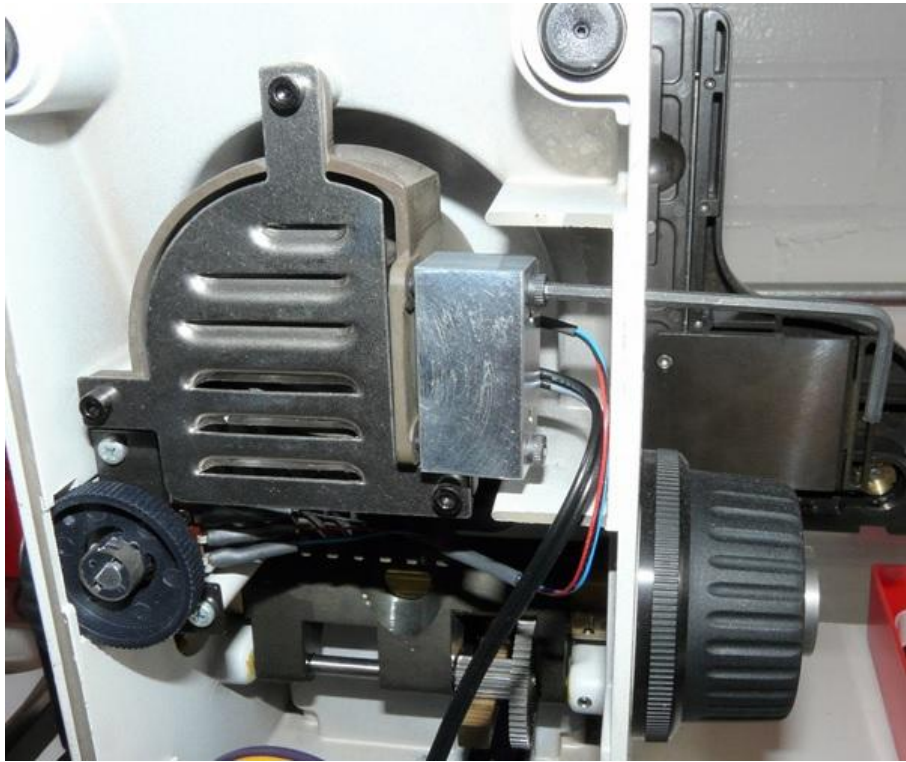
4

3

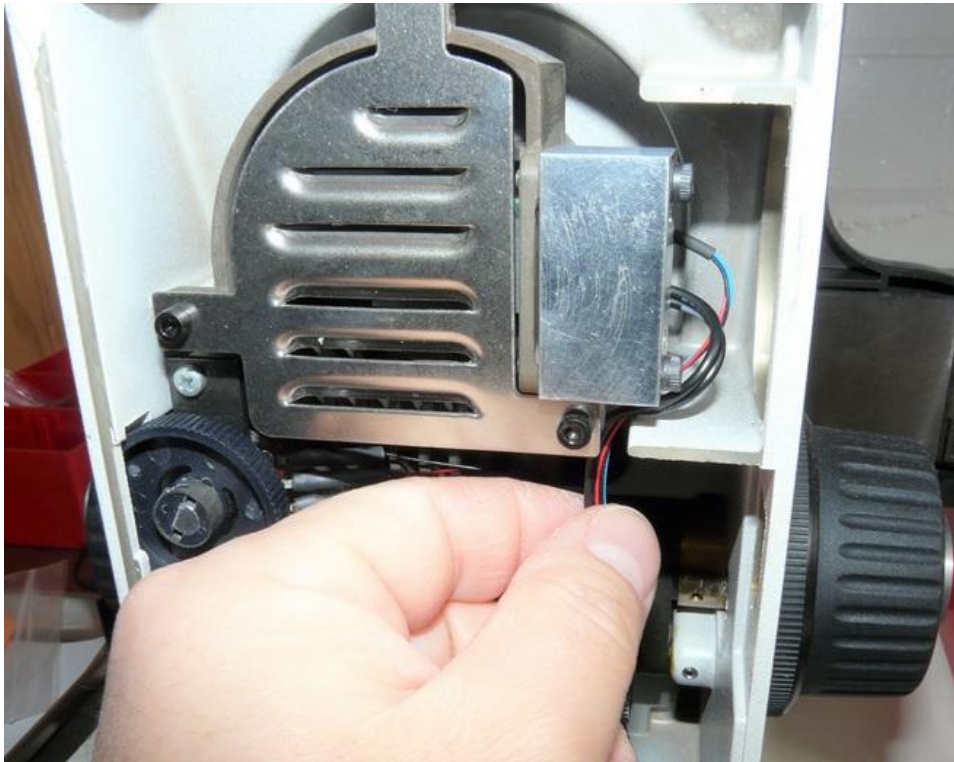
2

1

Nanodyne Replacement Illuminator for Leica DM2000 Microscope Installation Instructions: Step 7. Install Nanodyne illuminator assembly and power plate.



Install the Nanodyne illuminator assembly using M3 screws provided.



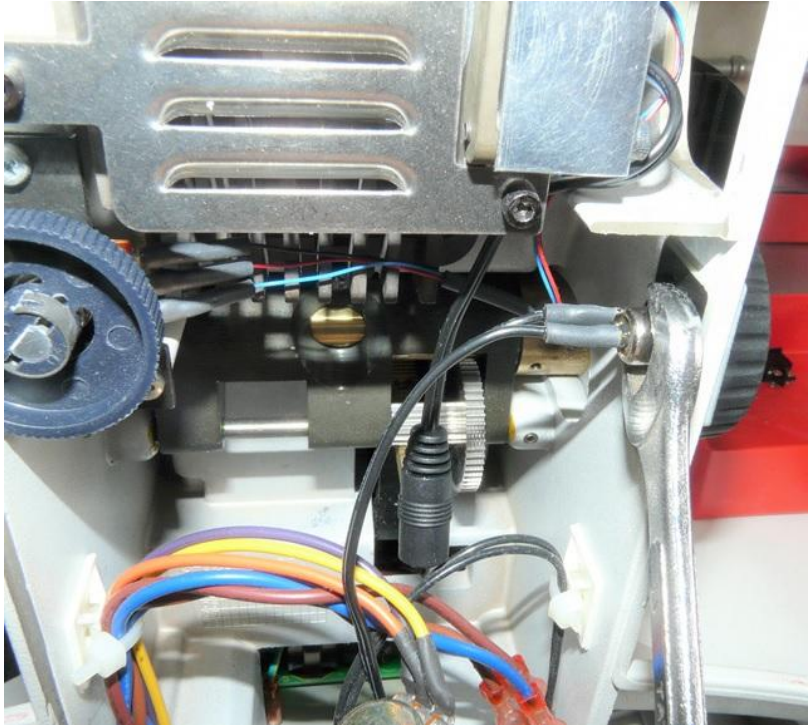
Organize pot cable and power cable as needed.



Guide the power jack and power plate outside piece through the old AC power switch hole as shown above.



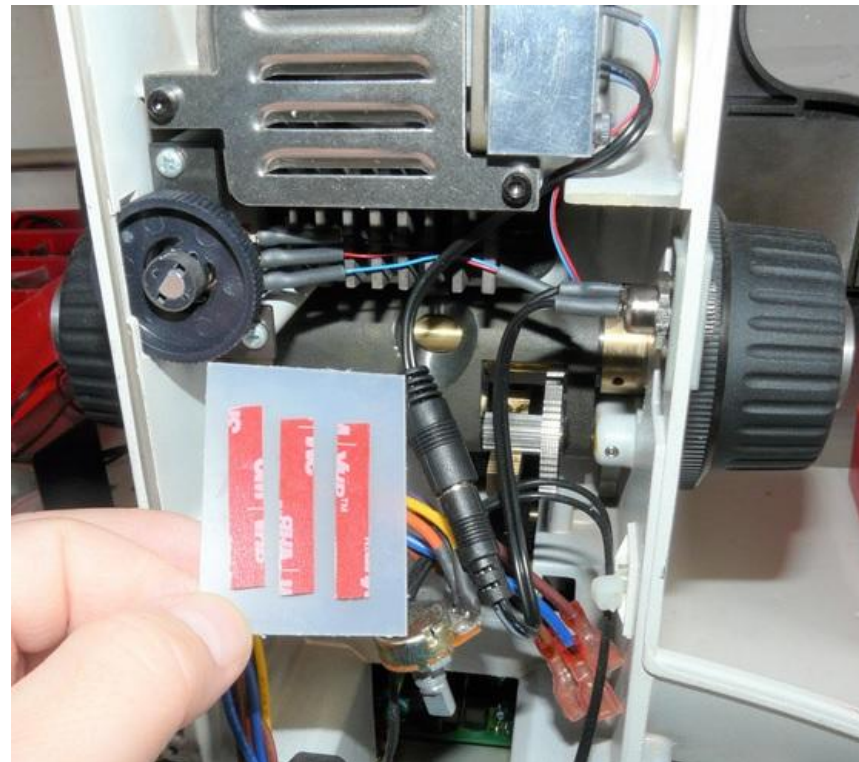
Line up the power plate (on the inside), and another plate (on the outside) with the AC power switch hole on the microscope frame. Then thread the nut onto the silver metal power jack and tighten it by hand. Verify that both plates are properly aligned with the nut finger tight. Then finish tightening with a wrench, just enough to secure them. Don't over-do it.



Nanodyne Replacement Illuminator for Leica DM2000 Microscope Installation Instructions: Step 8. Install side cover.



Connect power cables.



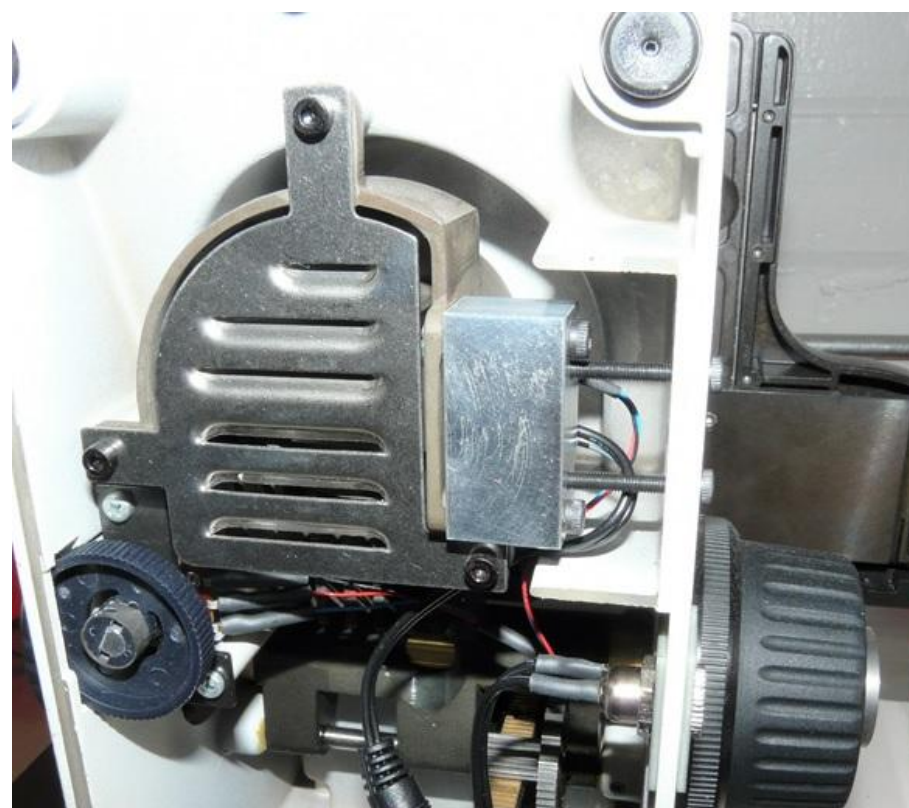
Organize wires, use 3M VHB tapes provided if needed.



Insert Nanodyne side cover.



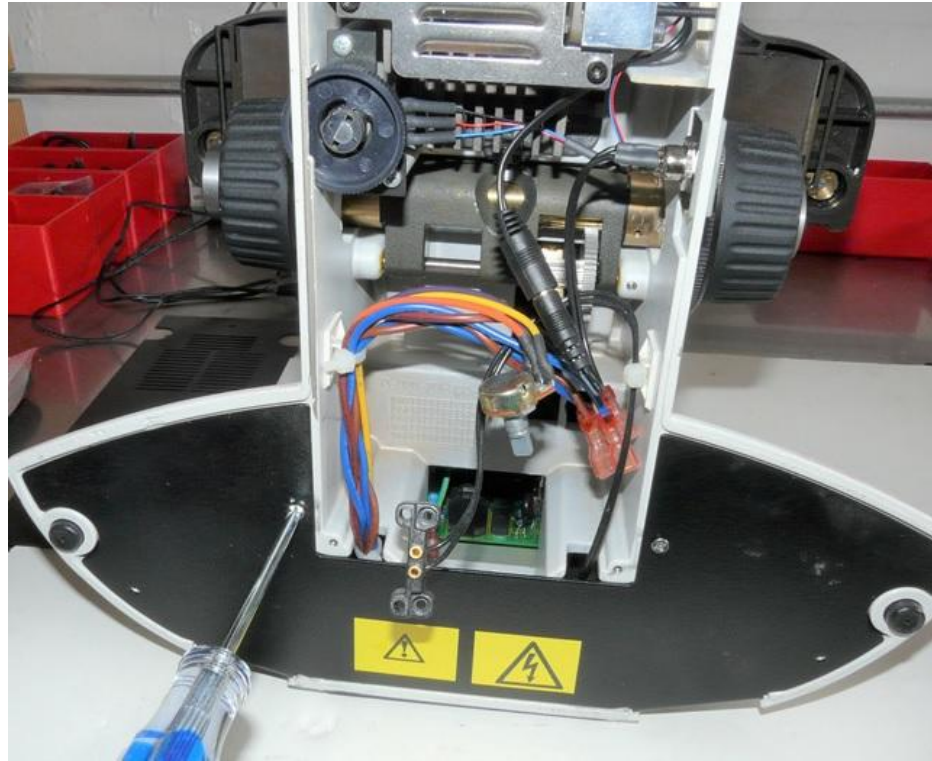
Install side cover using M3 crews provided. Do not overtighten but just enough to secure them.



Nanodyne illuminator installed.



Nanodyne Replacement Illuminator for Leica DM2000 Microscope Installation Instructions: Step 9. Re-install bottom covers and connect the power supply.



Re-install the bottom cover-2.



Re-install the bottom cover-1.



Install PN 10736 rubber plug in AC receptacle to deter connection of AC power.



Connect the power supply to complete the illuminator installation.



Plug the USB end into the power supply. Plug the power supply into an AC outlet. Now it is ready to use.



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