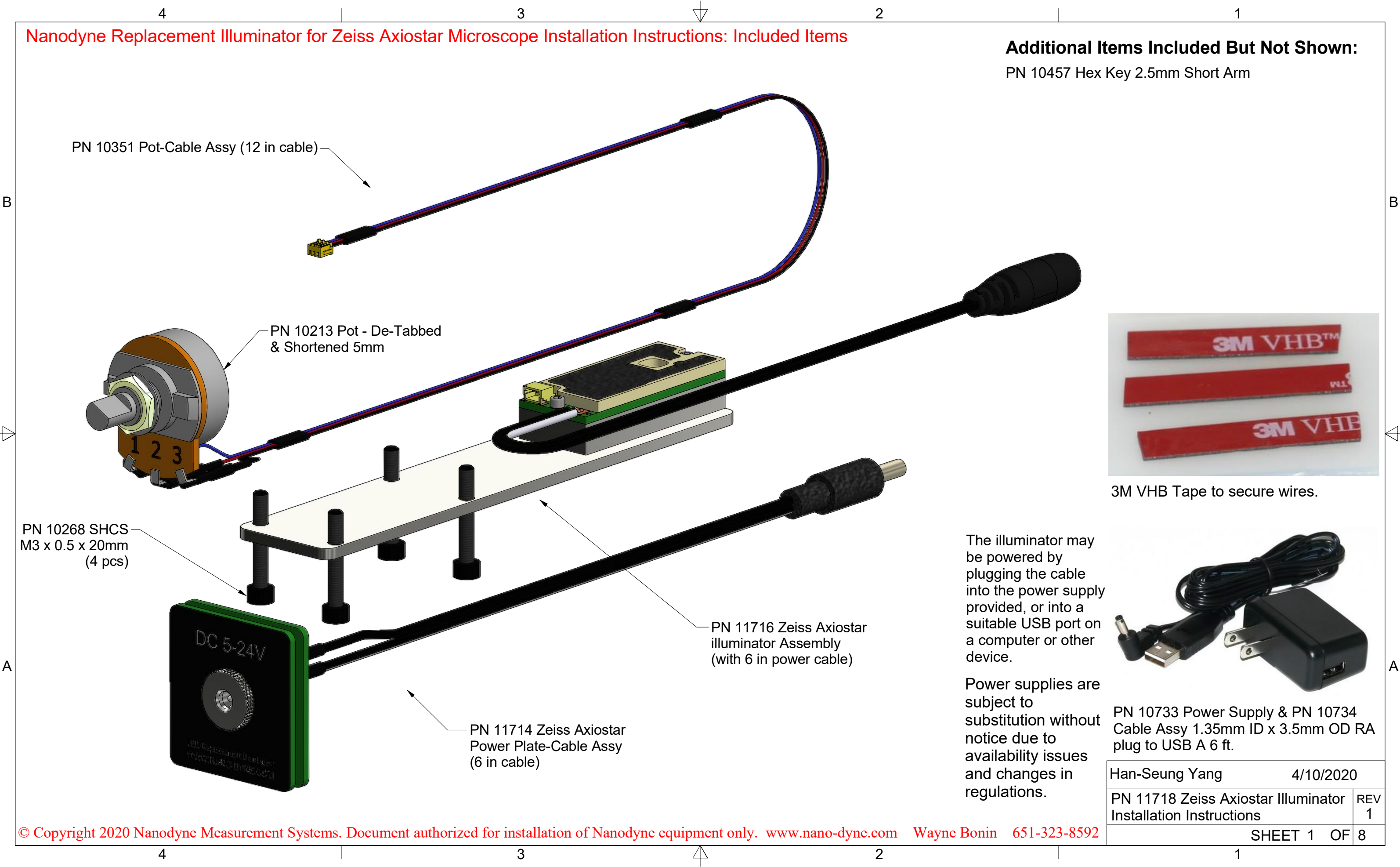


Nanodyne Replacement Illuminator for Zeiss Axiostar Microscope Installation Instructions: Included Items

Additional Items Included But Not Shown:

PN 10457 Hex Key 2.5mm Short Arm



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Nanodyne Replacement Illuminator for Zeiss Axiostar Microscope Installation Instructions - Step 1. Remove back cover, old electrical parts and wires.



Photo 1a

The photo 1a shows the microscope this illuminator system was designed for.



Photo 1b

Be sure AC power is disconnected. Remove back cover (photo 1b), original electrical parts (photo 1c), and ground wire (photo 1d).

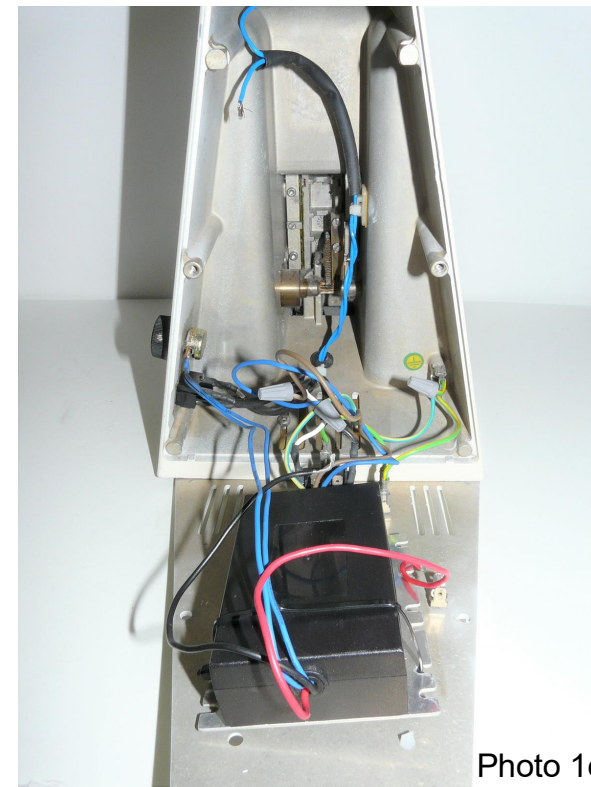


Photo 1c

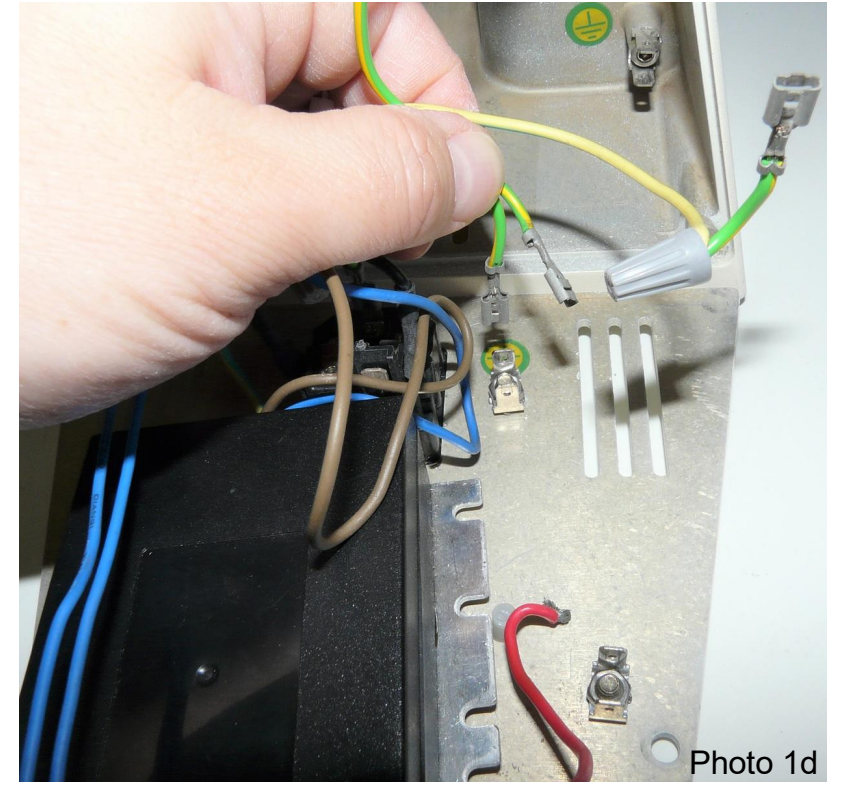


Photo 1d

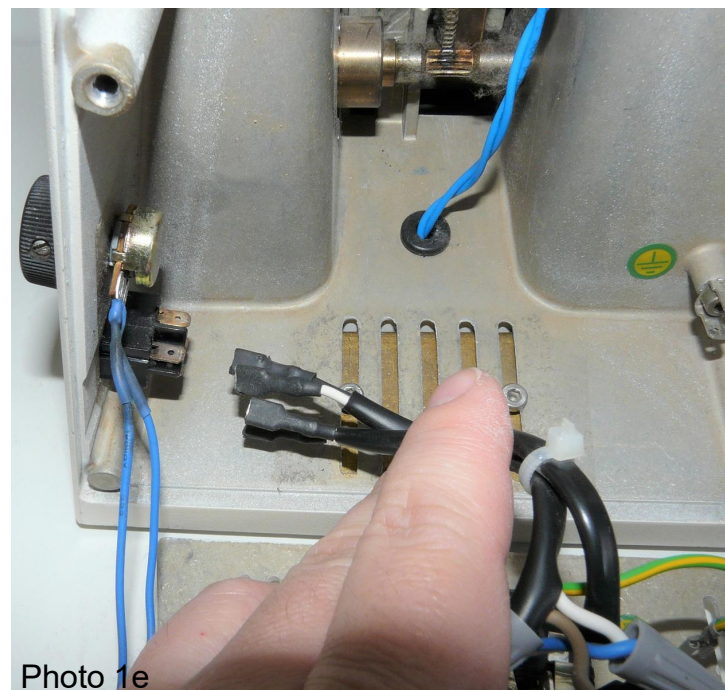


Photo 1e

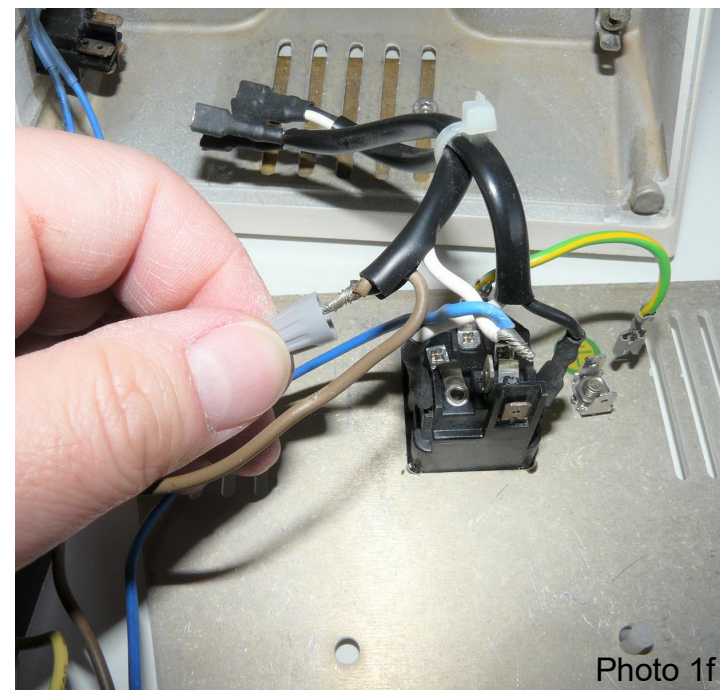


Photo 1f

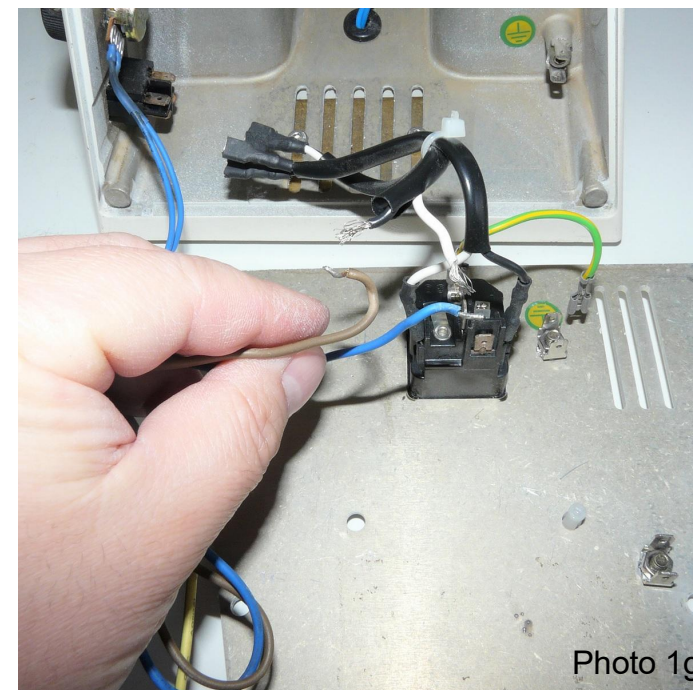


Photo 1g

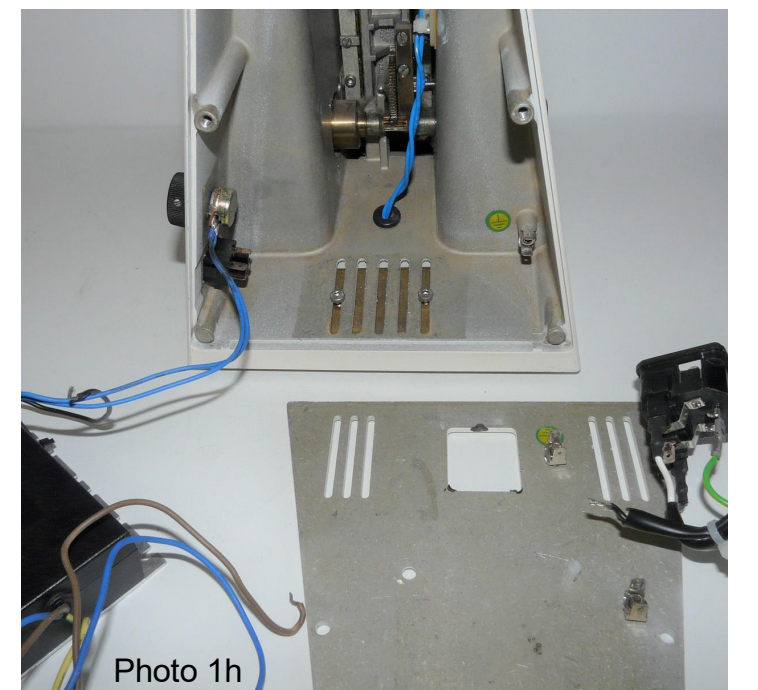


Photo 1h

Disconnect and remove power cables from the power switch (photo 1e). Disconnect wires from the power receptacle block (photos 1f and 1g), and remove the AC power receptacle block from the back cover by pushing the plastic clip (photo 1h).

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Nanodyne Replacement Illuminator for Zeiss Axiostar Microscope Installation Instructions - Step 2. Remove old potentiometer and lamp housing.

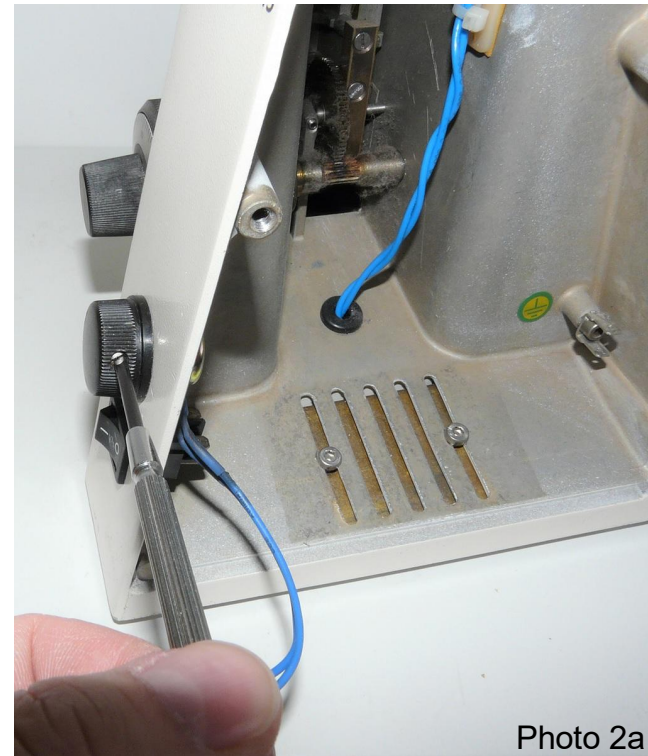


Photo 2a

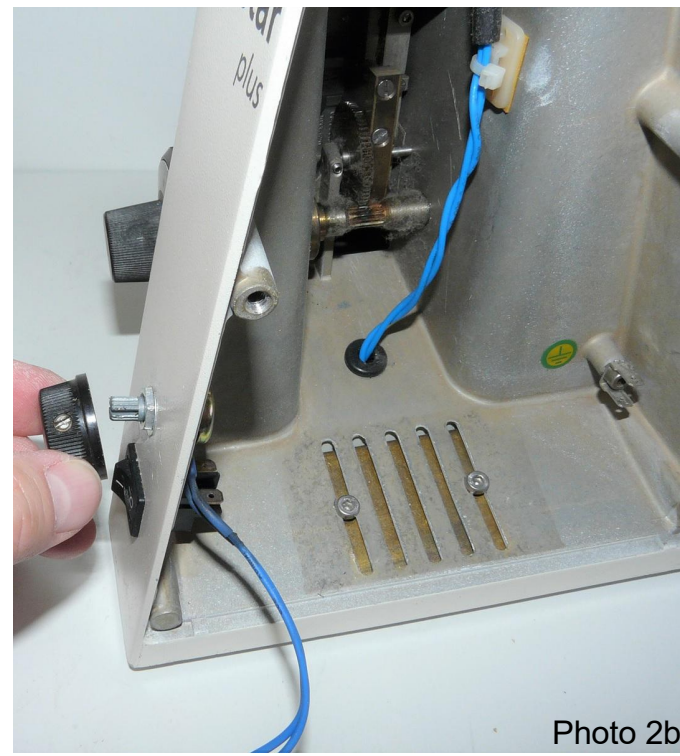


Photo 2b



Photo 2c

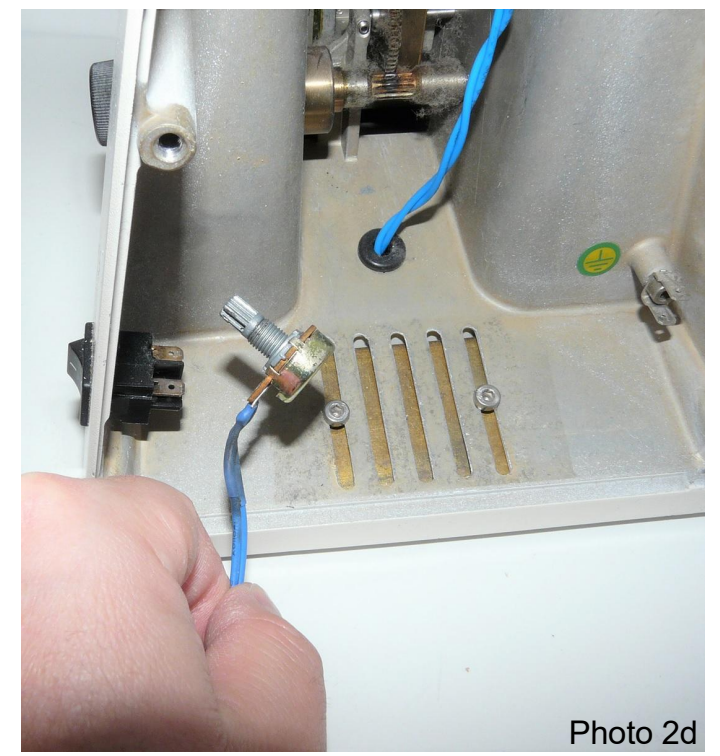


Photo 2d

First remove the knob by loosening the screw with a Phillips screwdriver (photos 2a and 2b), keep the original knob for later installation. Then remove the nut with an 11mm hex socket (photo 2c). You should be able to turn the socket by hand. If it is too tight a deeper socket than shown will be required. Remove original adjustment pot cable assembly (photo 2d).



Photo 2e



Photo 2f



Photo 2g

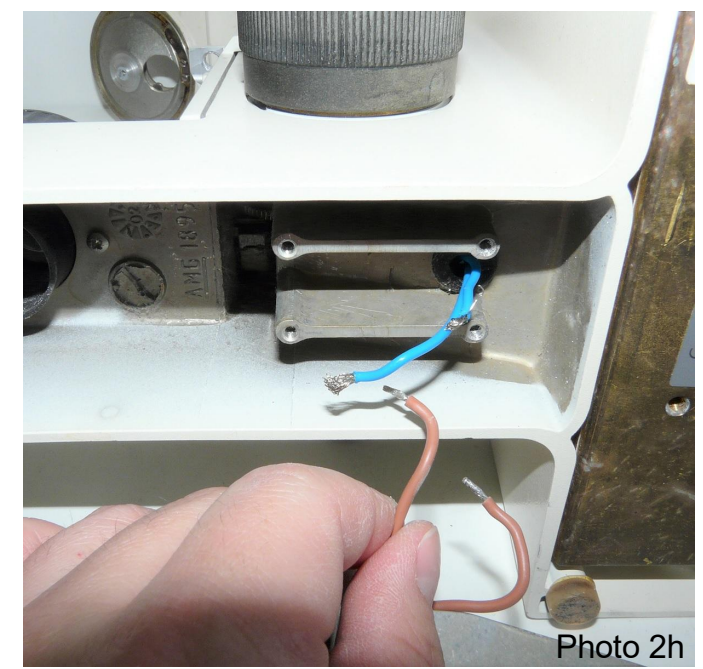


Photo 2h

Turn 90 degree, unscrew and remove the original lamp housing from the bottom of microscope (photos 2e and 2f). Disconnect original wires (photos 2g and 2h).

Nanodyne Replacement Illuminator for Zeiss Axiostar Microscope Installation Instructions - Step 3. Remove old lamp socket.

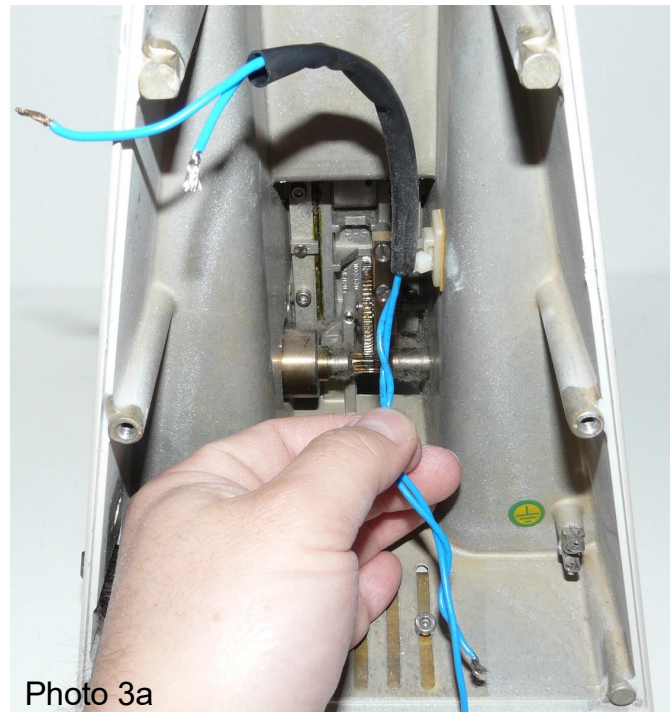


Photo 3a

Remove original wire.



Photo 3b

Unneeded old parts completely removed.

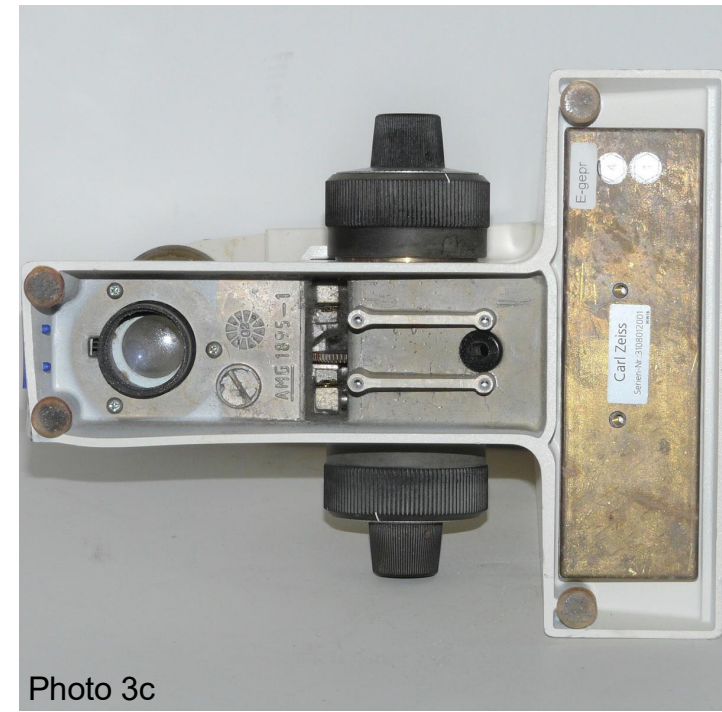


Photo 3c

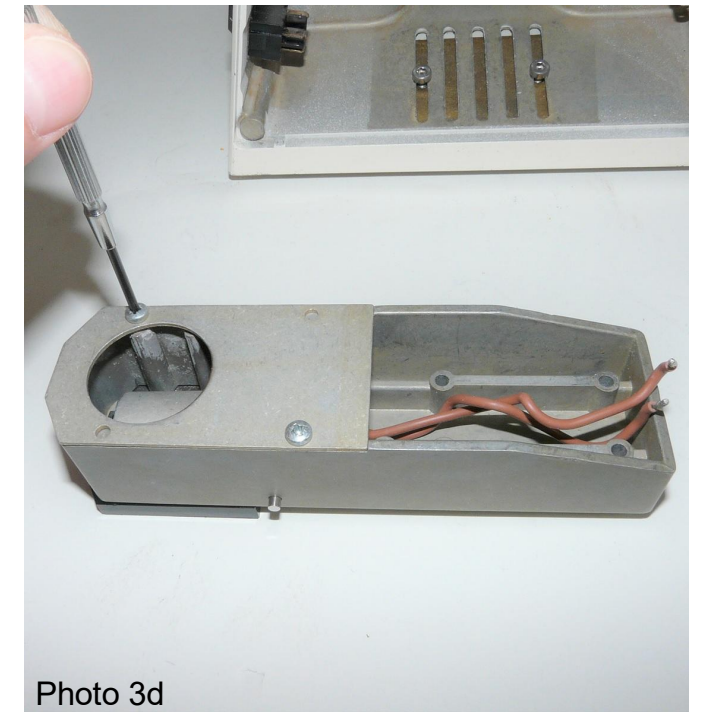


Photo 3d

Unscrew to remove the metal bracket.

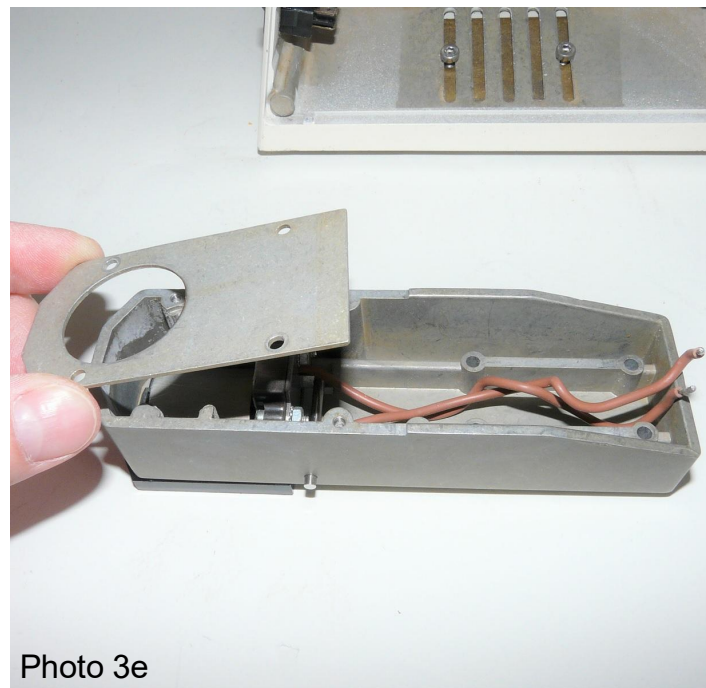


Photo 3e

Remove and keep the metal bracket for later.

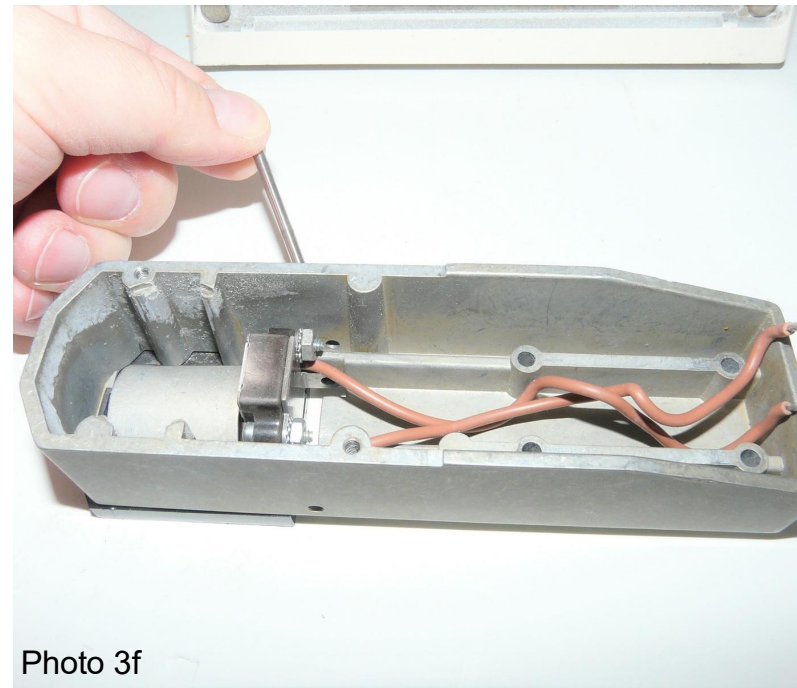


Photo 3f

Remove the pin.

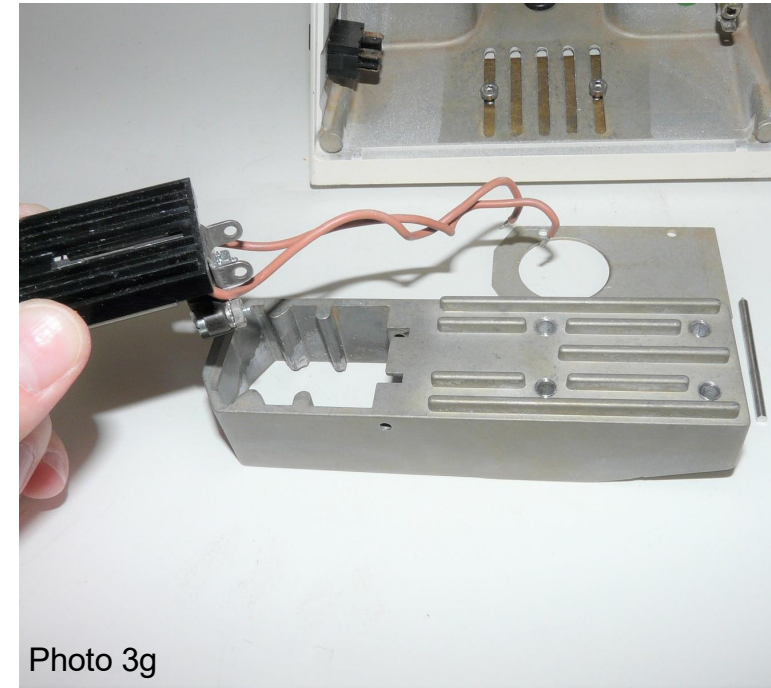


Photo 3g

Remove the old lamp socket assembly.

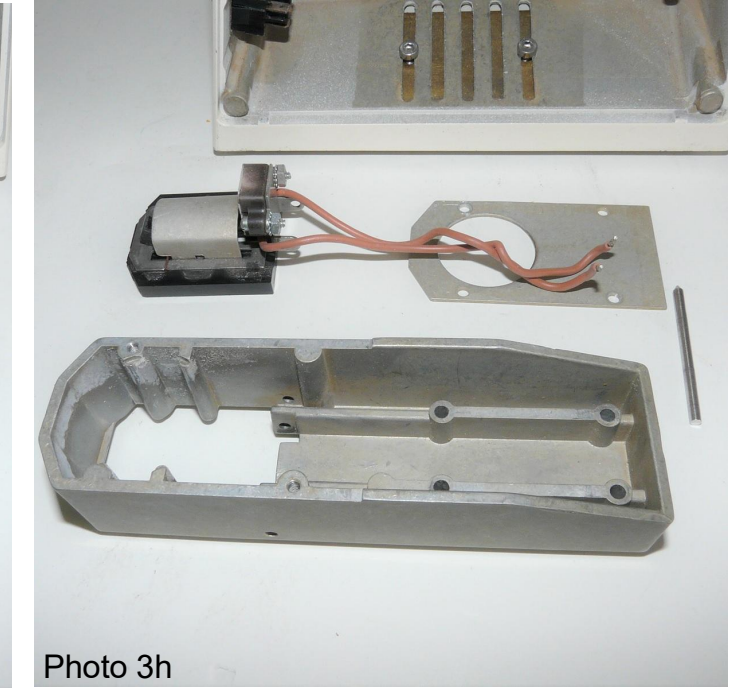


Photo 3h

4 3 2 1

Nanodyne Replacement Illuminator for Zeiss Axiostar Microscope Installation Instructions - Step 4. Attach Nanodyne illuminator.

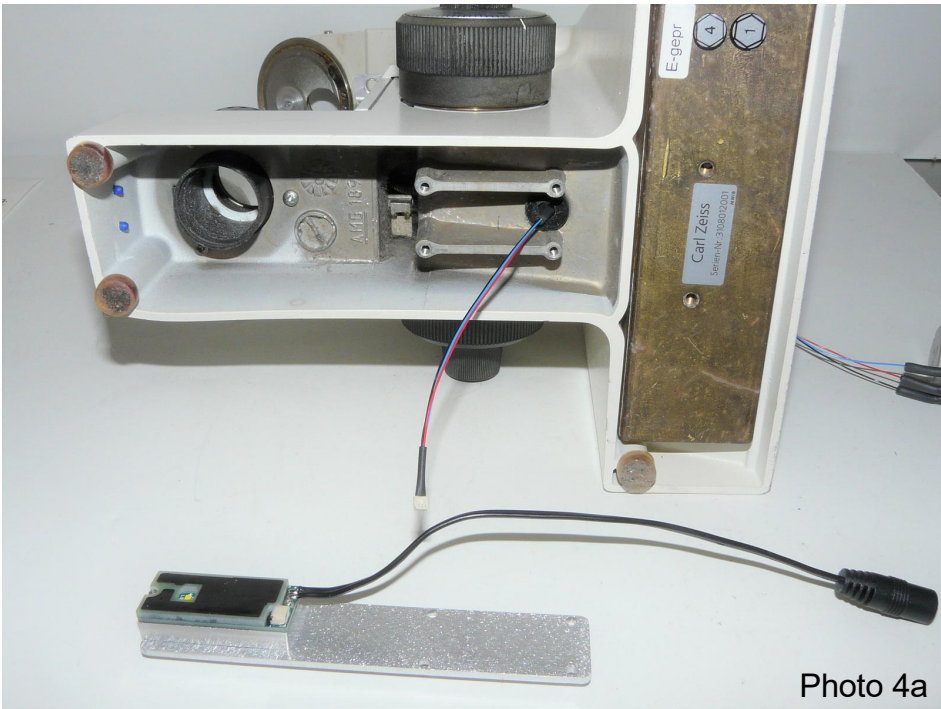


Photo 4a

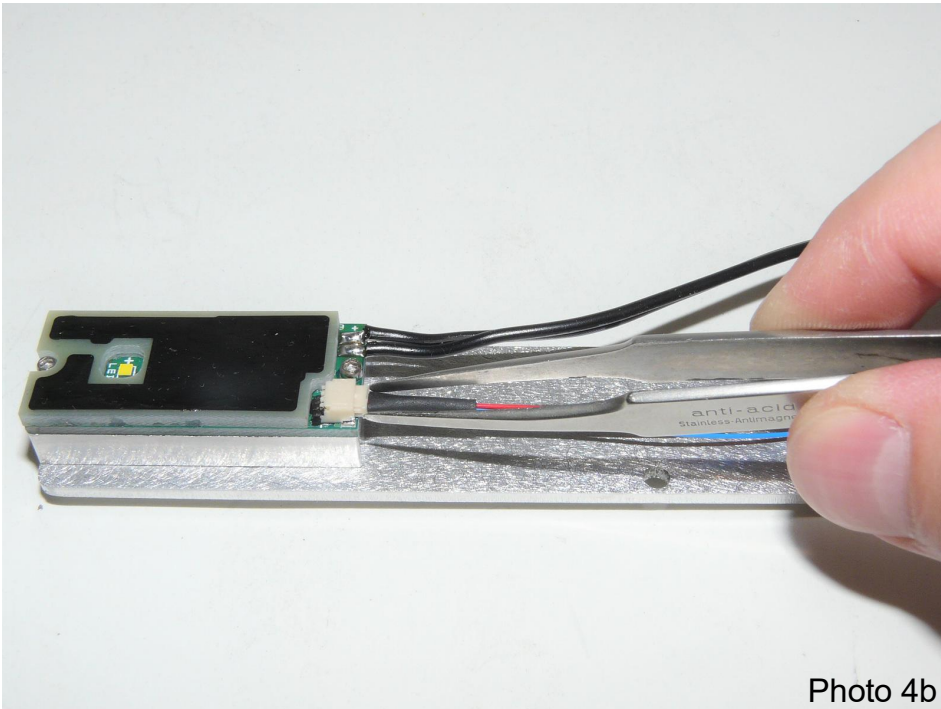


Photo 4b



Photo 4c

Route a new pot cable through rubber grommet (photo 4a). Connect the pot cable to the white connector on the illuminator circuit (photo 4b). Note that the connector is keyed to fit only one way. If it doesn't fit, do not force it but turn 180 degree. Using finger nail or small tools such as tweezers helps to fully insert the connector. Route the power cable (photo 4c).

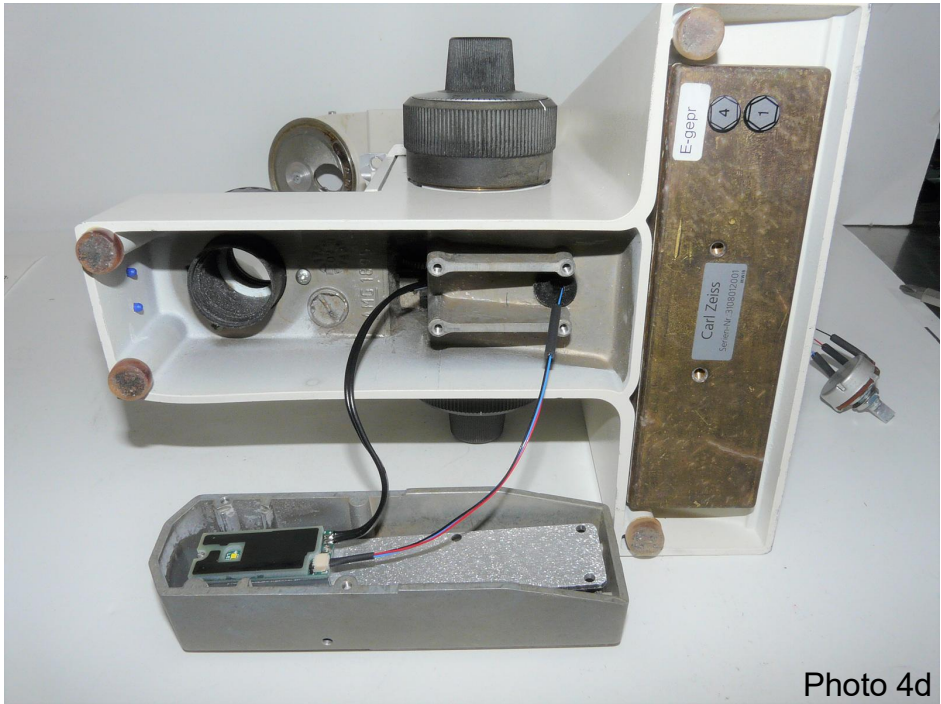


Photo 4d

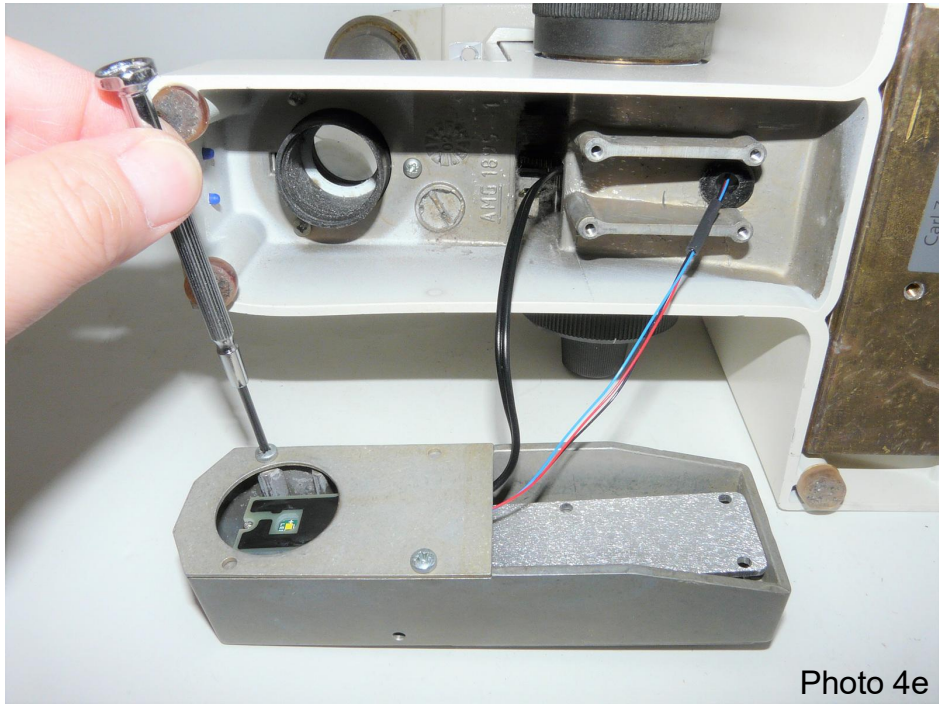


Photo 4e



Photo 4f

Position the illuminator assembly on the lamp housing (photo 4d), and place the metal bracket saved earlier (photo 4e). Secure the lamp housing with the four M3 screws by using hex key provided (photo 4f). Route pot cable and power cable accordingly before tighten the screws to prevent unexpected damage on the cable.

Nanodyne Replacement Illuminator for Zeiss Axiostar Microscope Installation Instructions - Step 5. Attach new potentiometer and secure cables.

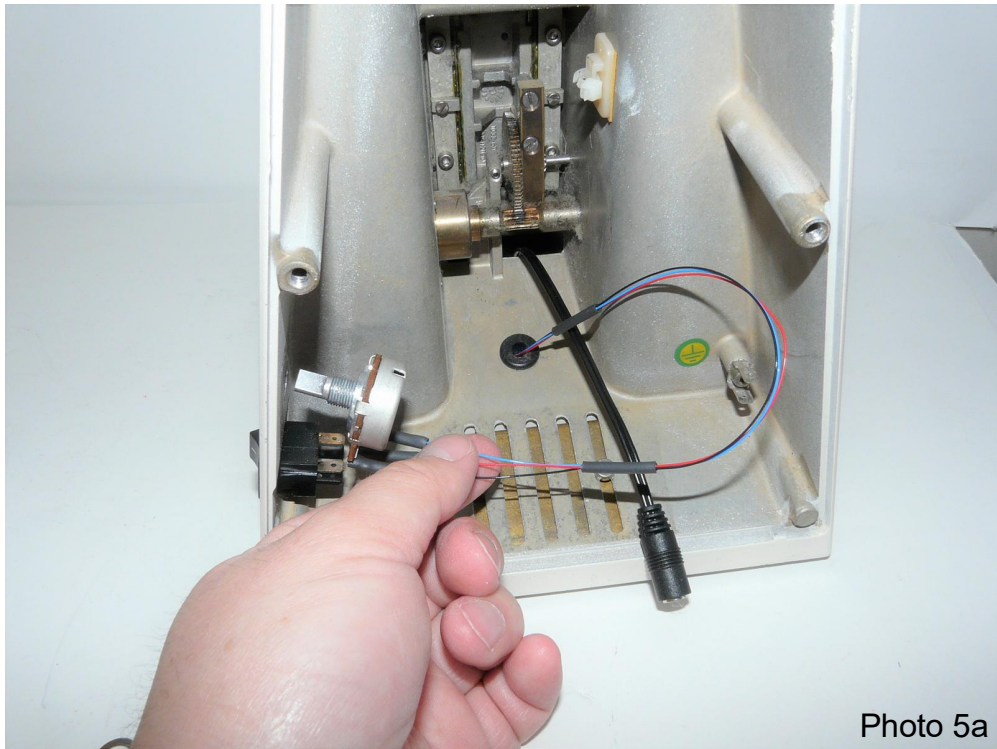


Photo 5a

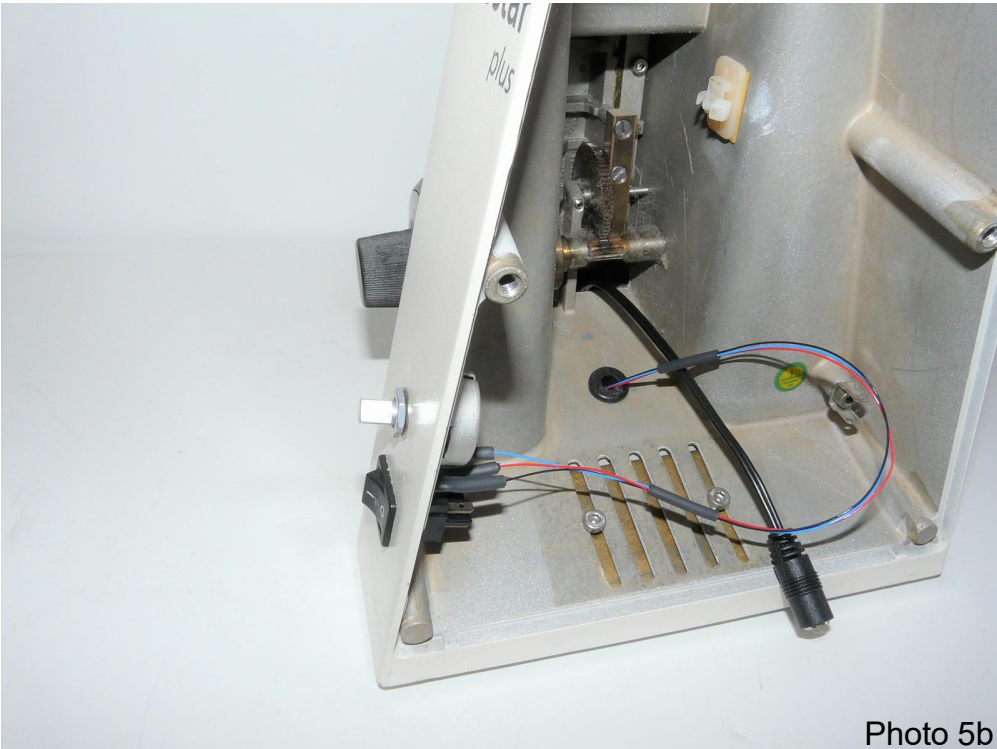


Photo 5b

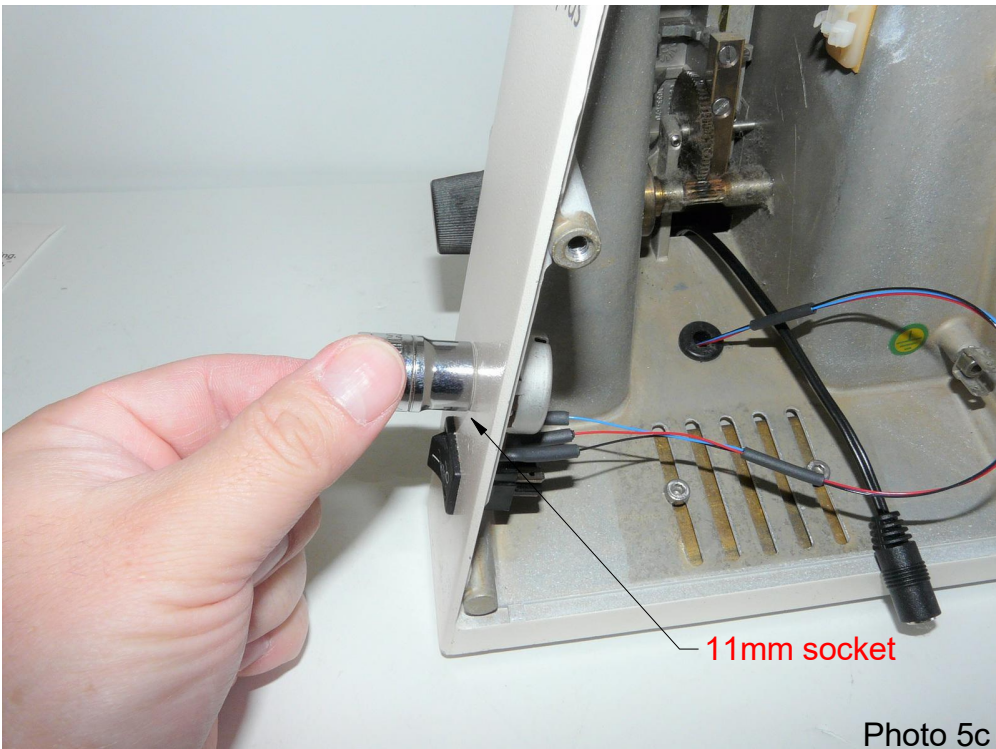


Photo 5c

Install the new adjustment pot (photo 5a), securing it in place with the nut and washer provided (photo 5b). Getting the nut started may be rather difficult. Tilting the microscope so that the shaft of the pot points straight up will help, as gravity is then helping rather than fighting you. After getting the nut started on the threads of the pot, tighten it snugly by hand with the 11mm socket (photo 5c).

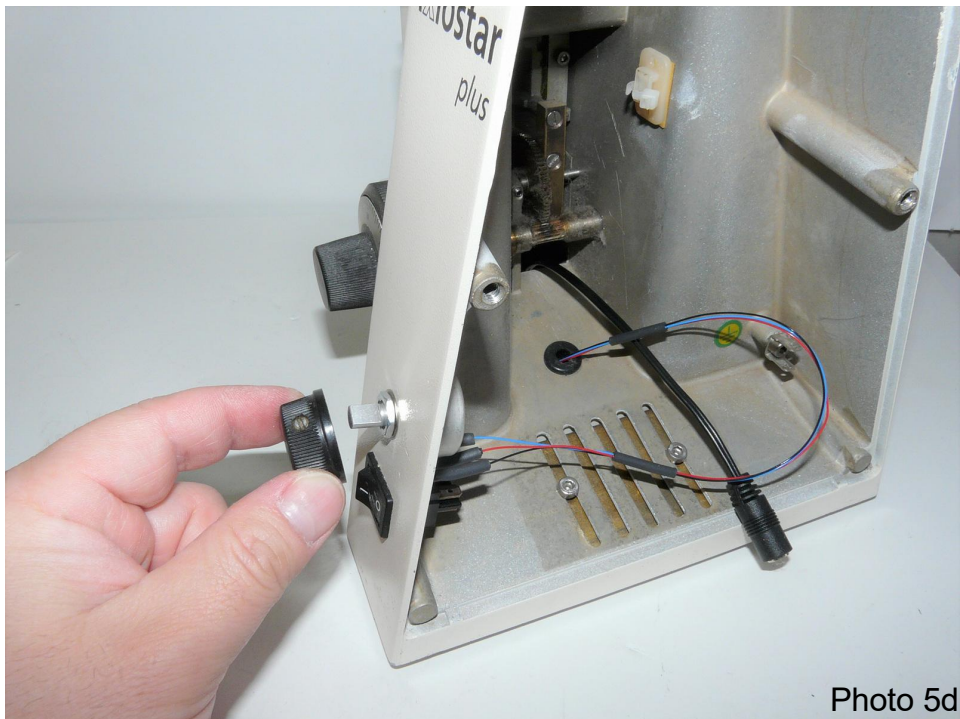


Photo 5d

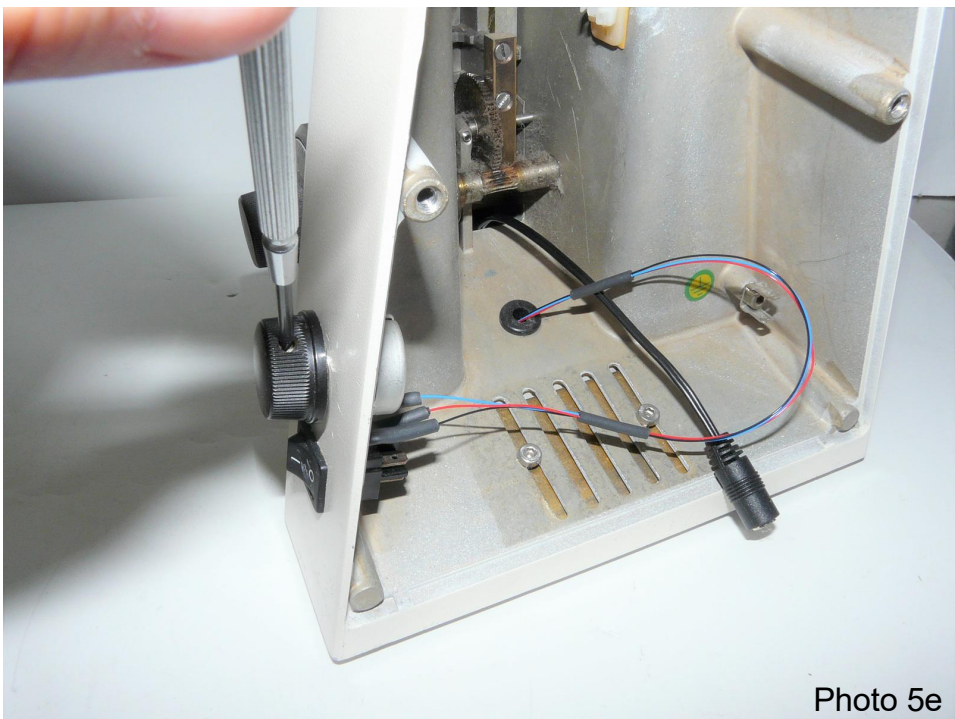


Photo 5e

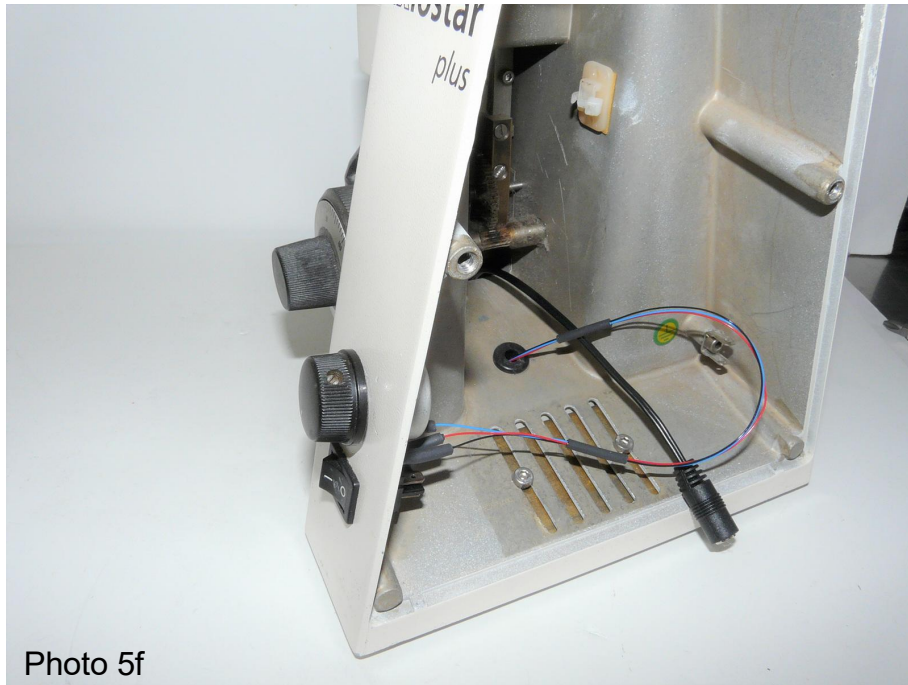


Photo 5f

Re-install the pot knob saved from the original pot (photo 5d), securing it in place using Phillips screwdriver (photo 5e). Secure the cables with the 3M VHB tapes provided if desired, so the cables cannot get caught in the rack and pinion mechanism, or hang out the bottom.

Nanodyne Replacement Illuminator for Zeiss Axiostar Microscope Installation Instructions - Step 6. Install DC power plate.

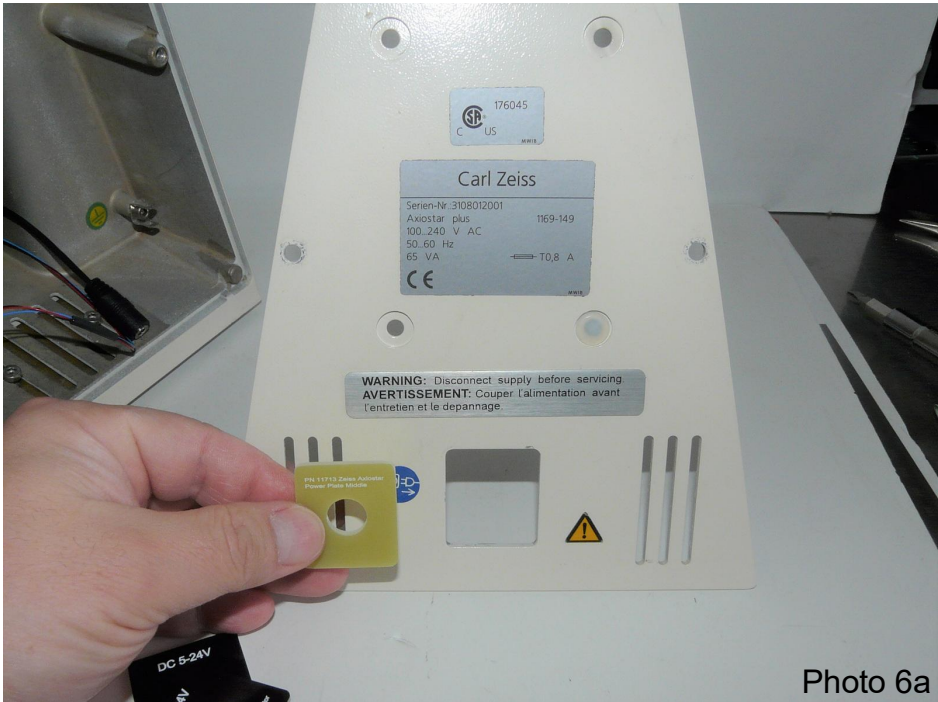


Photo 6a



Photo 6b

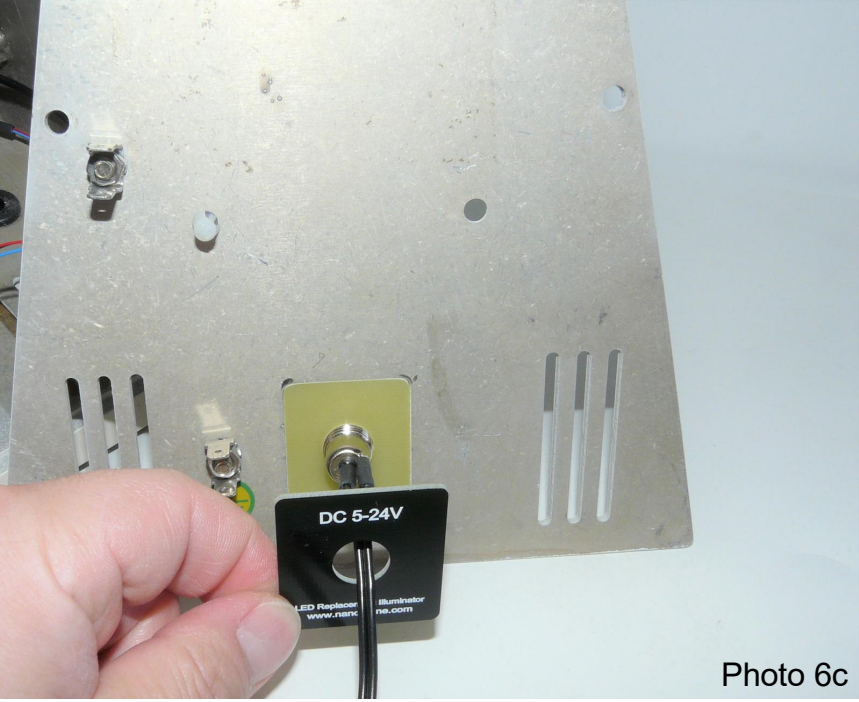


Photo 6c

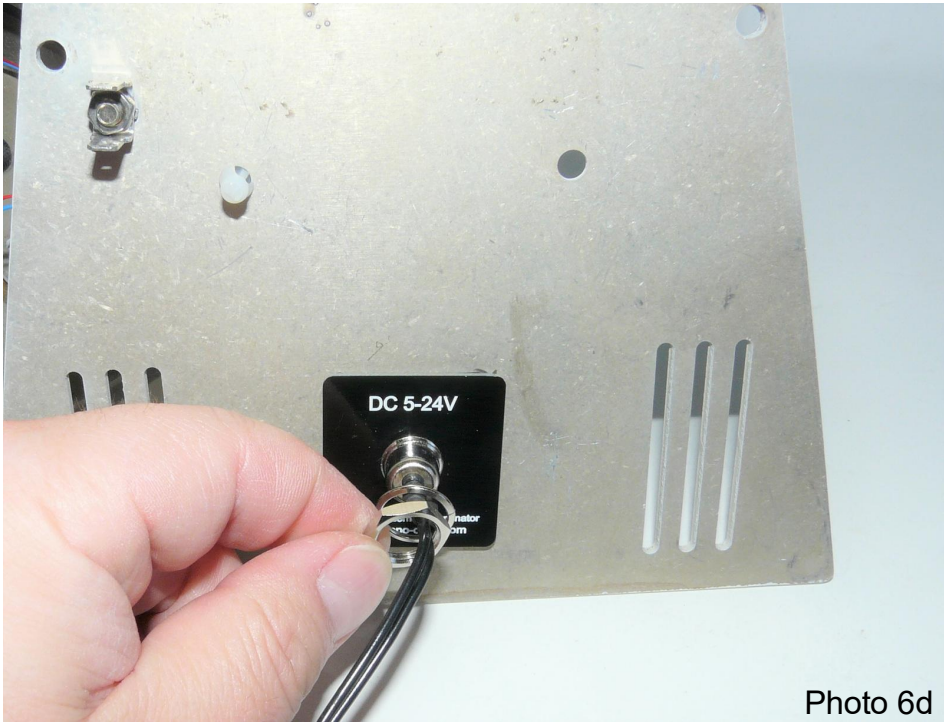


Photo 6d

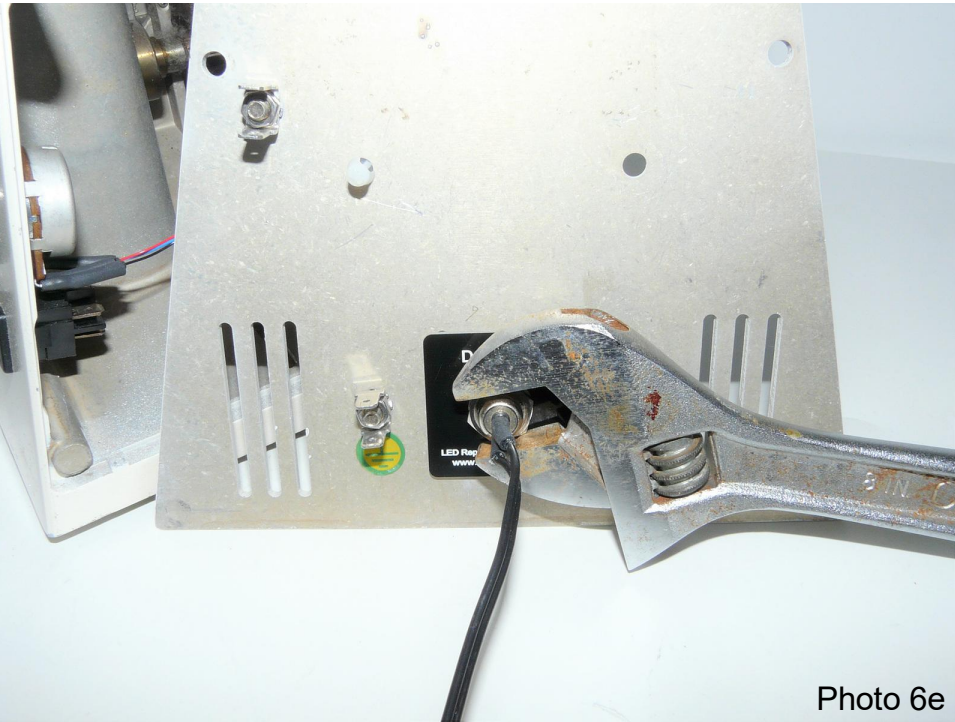


Photo 6e

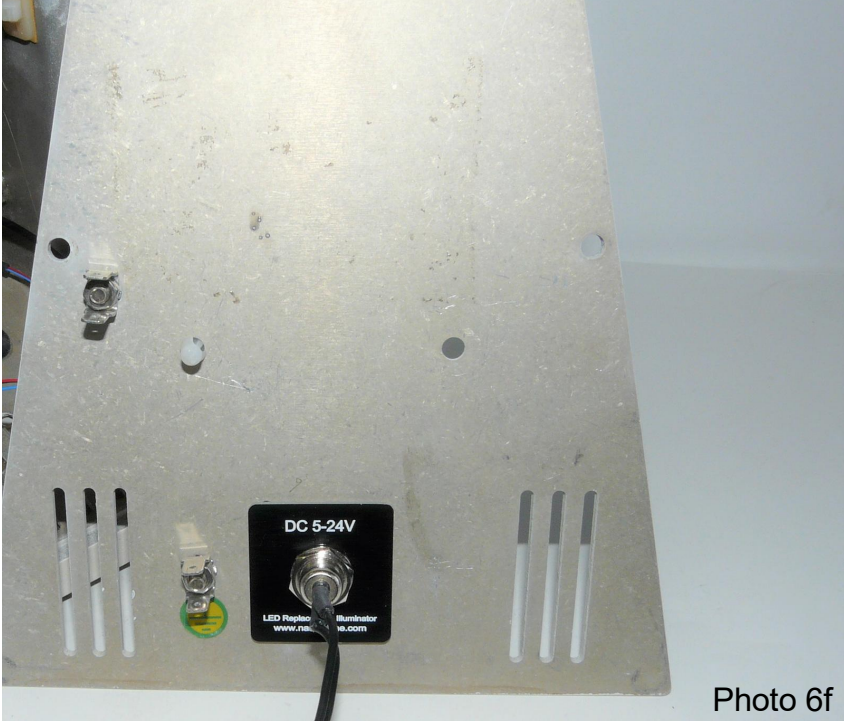


Photo 6f

Insert washer and nut provided (photo 6d), then tighten the nut to secure power plates (photo 6e). Use wrench or other tools if needed. The new illuminator system runs on its own DC power supply, so the AC connections are no longer needed.

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Nanodyne Replacement Illuminator for Zeiss Axiostar Microscope Installation Instructions - Step 7. Re-install back cover and connect new power supply.



Photo 7a

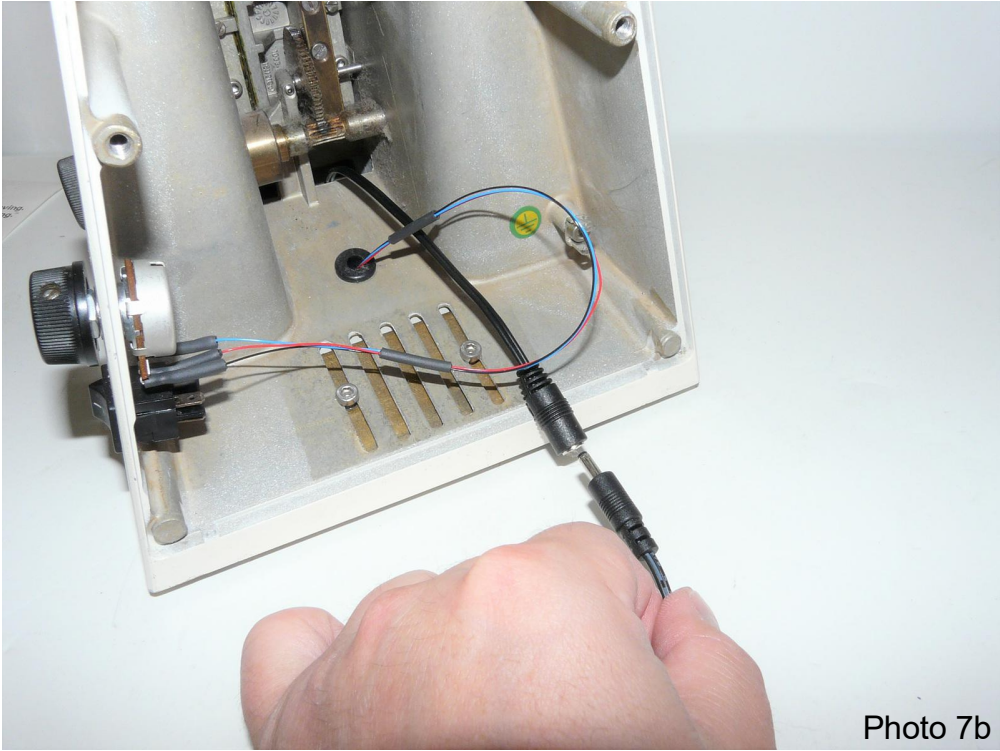


Photo 7b

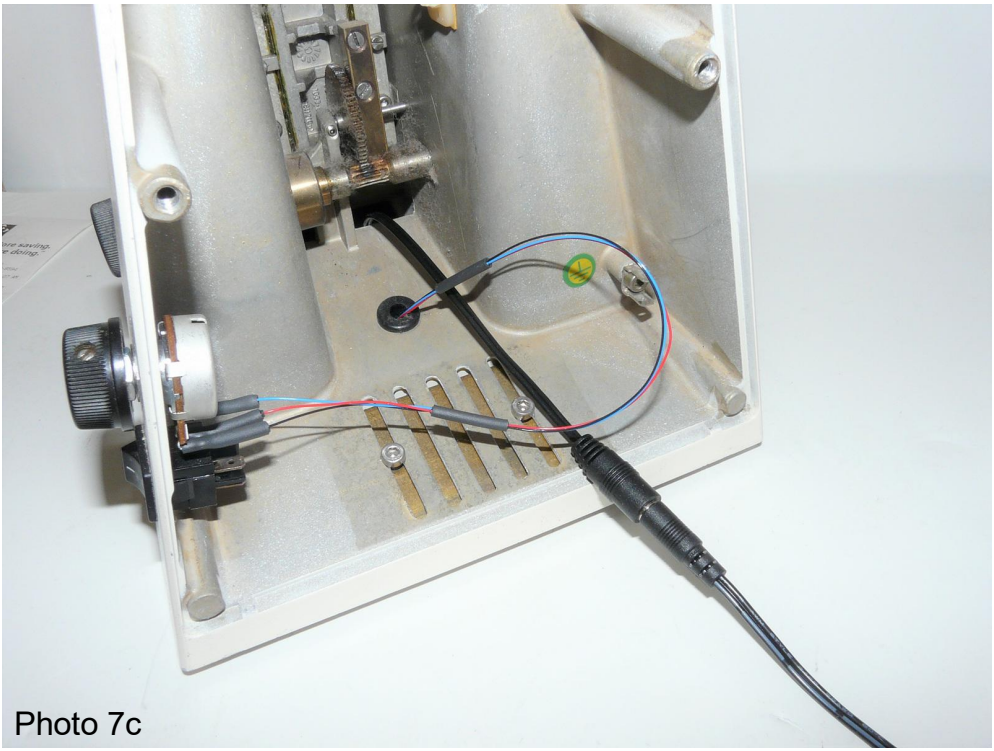


Photo 7c

Completely installed DC power plate will look like photo 7a. Connect power cables (photos 7b and 7c), then organize cables accordingly.



Photo 7d



Photo 7e



Photo 7f

Reinstall the back cover on the microscope (photo 7d) using original screws. Plug the power supply cable into the DC power plate (photos 7e and 7f). Now it is ready to operate.