

Nanodyne Replacement Illuminator for AO One-Ten Microscope Installation Instructions: Step 1. Separate Microscope Base and Remove Electrical Wiring.



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



(1) Use the 0.05 inch hex key to remove the adjustment knob. Keep the knob to install on the replacement adjustment potentiometer.



(2) Unscrew to separate the microscope base.

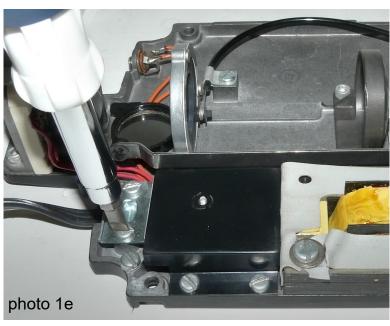






photo 1h (4) Remove the original power-PCB assembly.

(3) Remove the power cable pad, ground wire and unscrew the black plastic housing.

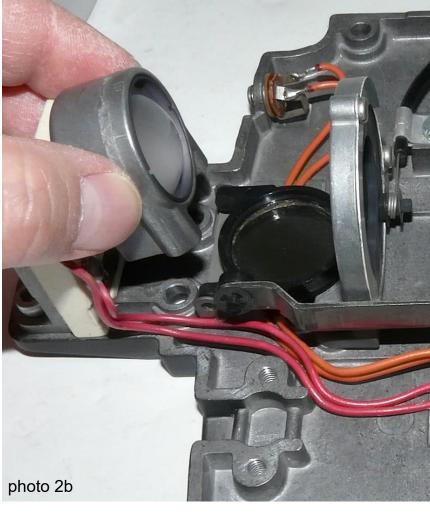
Be sure that the now unneeded electrical wiring cannot cause a short circuit in case AC power is connected by mistake sometime. They can be completely removed.

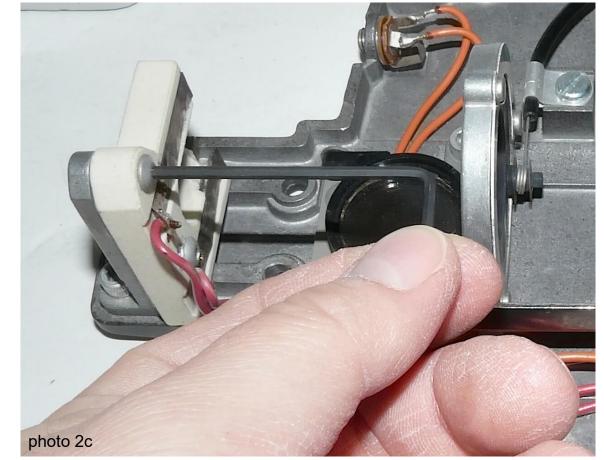
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Nanodyne Replacement Illuminator for AO One-Ten Microscope Installation Instructions: Step 2. Remove old Collector Lens, Lamp Holder Assembly and Unneeded Wires.

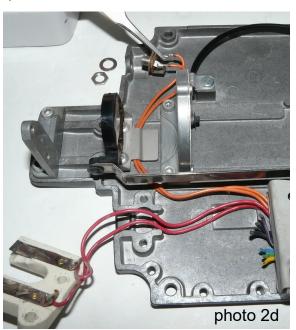






(2) Unscrew and remove the OEM lamp holder assembly.

(1) Unscrew and remove the collector lens. Keep the original screws for Nanodyne illuminator installation.



(3) Remove the OEM lamp wires and other unneeded wires.



(4) Obsolete components removed.

Ready to begin install the new illuminator (photo at left).

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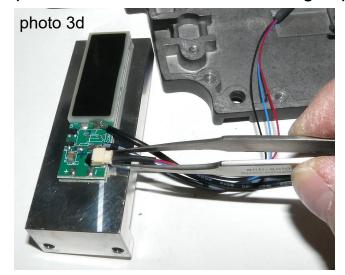
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Nanodyne Replacement Illuminator for AO One-Ten Microscope Installation Instructions: Step 3. Install the new Potentiometer and Mount Nanodyne illuminator.



(1) Remove the two screws holding the black plastic housing to remove original potentiometer. Leave the housing in place.



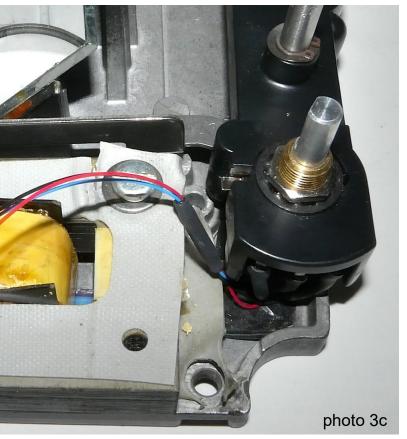
(4) Connect the potentiometer cable to the illuminator. The connector is keyed to go in one way as shown above. It can be inserted part way holding it by the wires as shown.



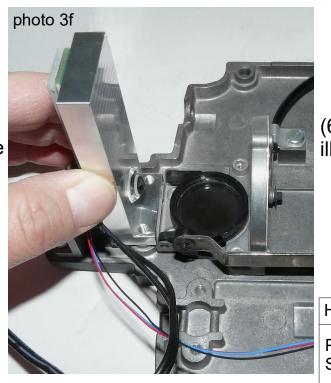
(2) Remove the original potentiometer. Keep the washer and nut for later.



(5) 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.



Install the new adjustment pot using original washer and nut then route the cable accordingly.



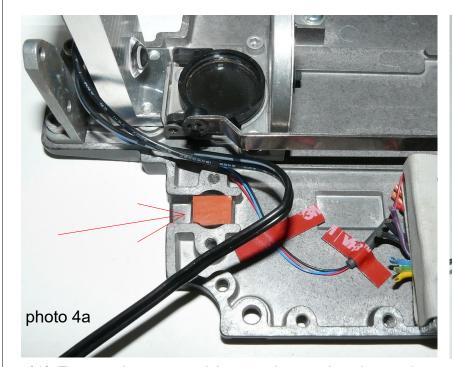
(6) Attach the Nanodyne illuminator with the OEM screws.

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(1) Route the pot cable as shown in photo 4a. The red VHB tape holds it in place. Place the silicon strain relief pad (red arrow) and route the power cable out.



(2) Screw the power cable clamp as shown above. Keep clear of wires from any moving part.



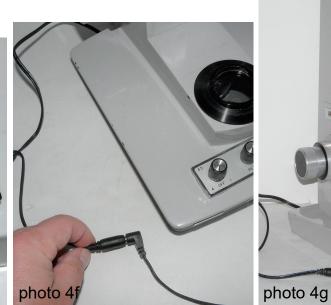
(3) Replace the microscope frame.



(4) Tighten four screws to secure microscope base.



(5) Replace the original knob using the 0.05 inch hex key.



(6) Plug in the power supply and the new illuminator is ready to operate.

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