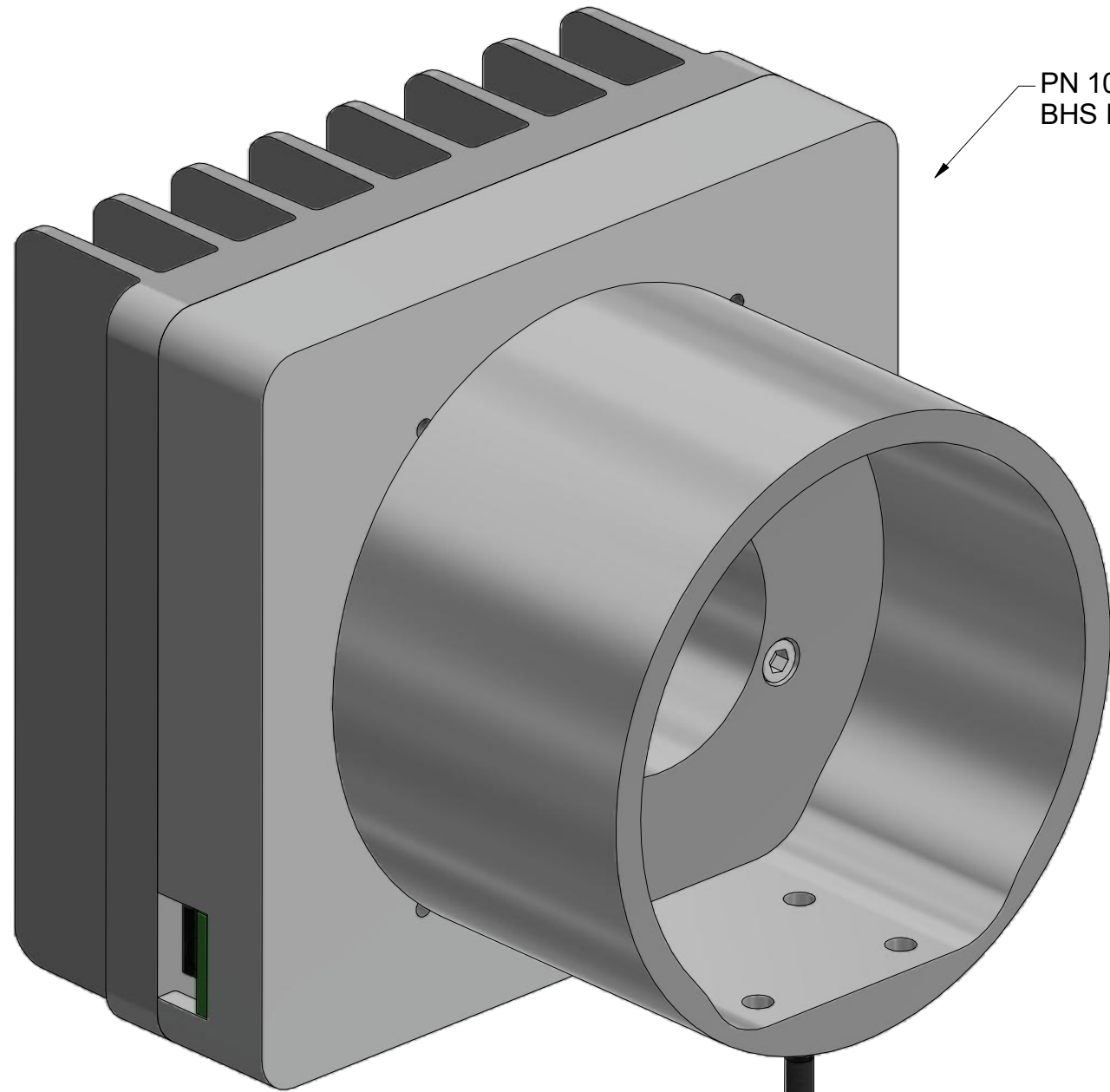


Nanodyne Replacement Illuminator for Olympus IX70 Top Microscope Installation Instructions: Included Items



Included Items Not Shown:

PN 10566 Hex Key 2.5mm long arm ball end (for 3 mm screws to attach OEM collector lens)

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 11163 Power Supply 5V 2.1A and
PN 10734 Power Cable 1.35mm
ID/3.5mm OD x USB A 6 ft.



PN 11795 Remote Control Box Assy (42 inch)



Tape to secure wires.



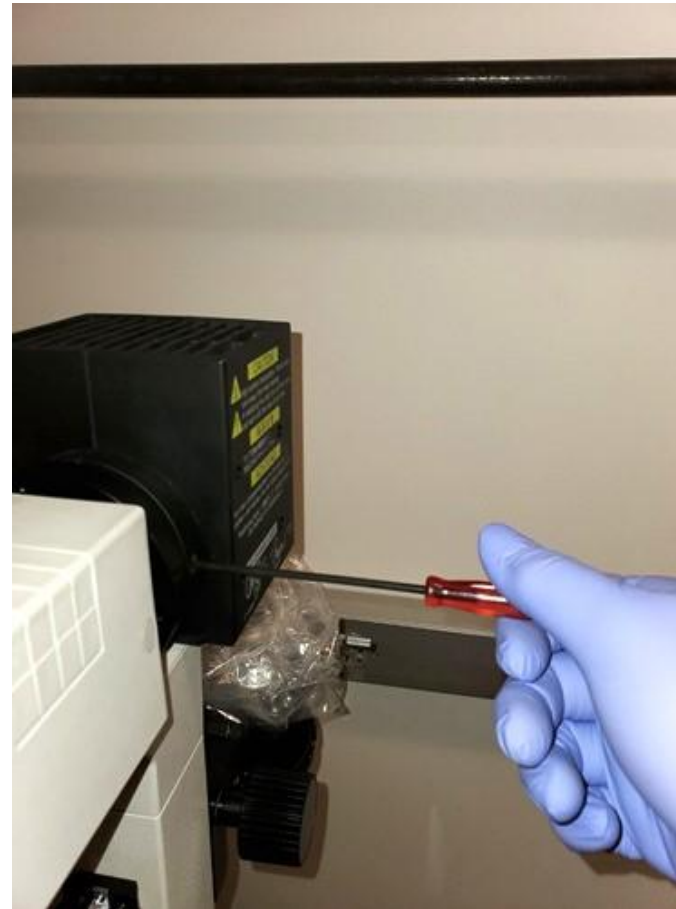
PN 10736 Rubber plug to block unused
AC power receptacle.

PN 10275 SHCS M3 x 0.5 x 8mm (4 pcs)
(to attach OEM collector lens to illuminator)

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

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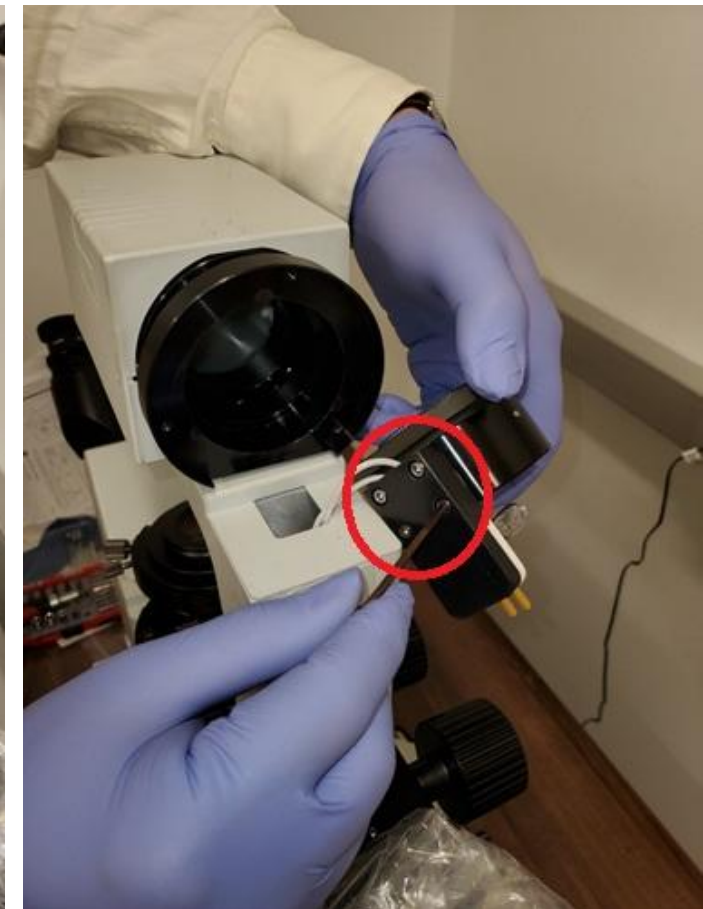
Nanodyne Illuminator for Olympus IX70 Microscope Installation Instructions: Remove OEM Illuminator, Salvage Collector Lens Assembly.



(2) Remove the OEM illuminator from the microscope. It is attached by a set screw under the lamp house.



(3) Remove the 3 screws (red circle) holding the collector lens assembly. Use the 2.5mm hex key provided. Keep the original screws for the later installation.



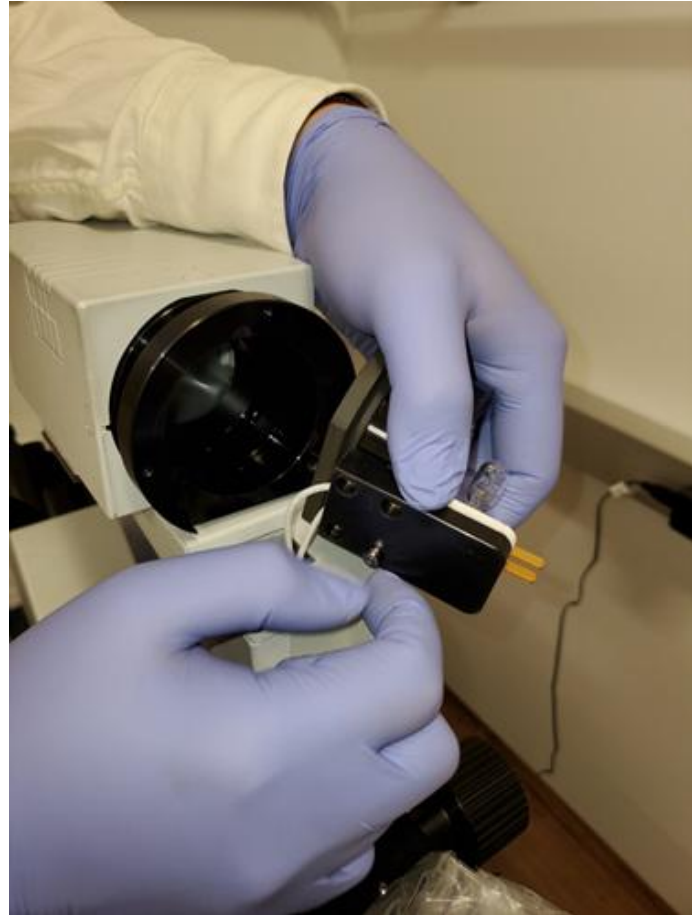
(4) Remove the 4 screws (red circle) holding the lamp socket assembly to the lens. Use the 2.5mm hex key provided. The original screws may be discarded.

NOTE: The photos in this instruction show IX70 microscope, while IX71 is slightly different, however the installation procedure is basically same.

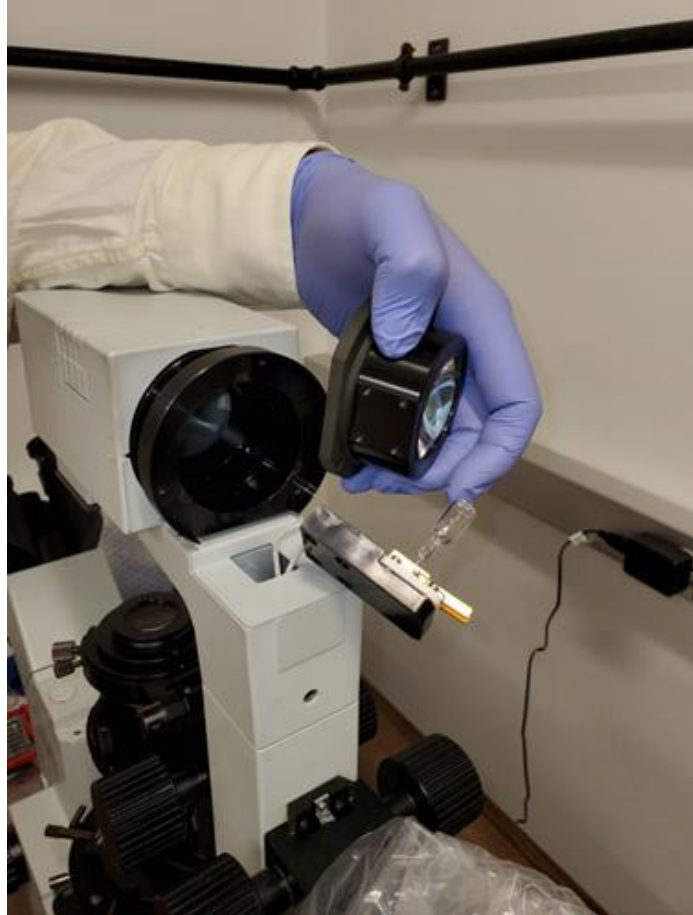
(1) This photo shows the microscope this illuminator system was designed for.

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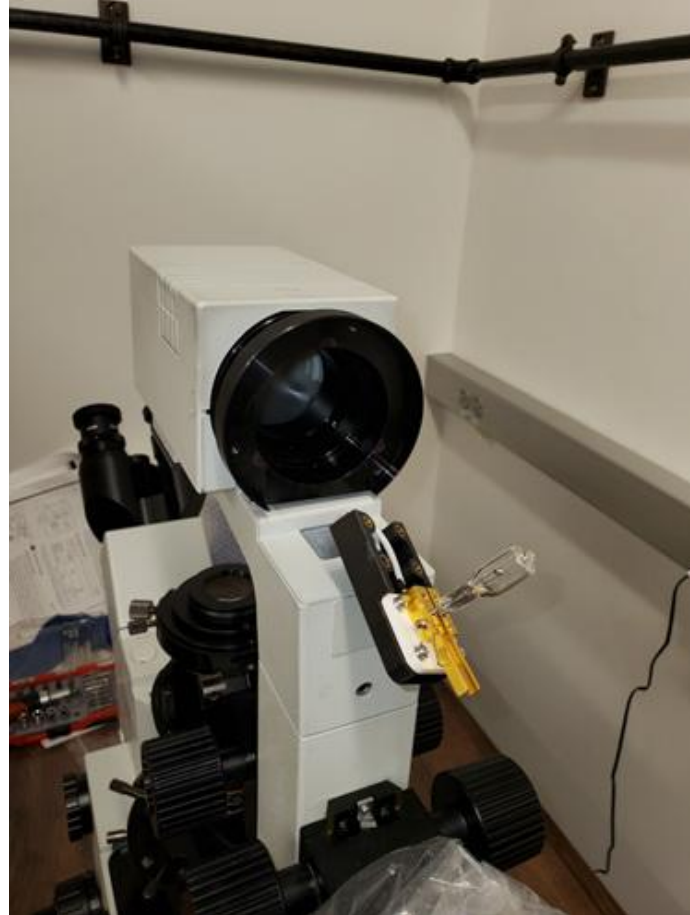
Nanodyne Illuminator for Olympus IX70 Microscope Installation Instructions: Attach Lens Assembly to New Illuminator



(1) Pull the lamp socket assembly away from the lens.



(2) Cut the wires close to the lamp socket assembly (optional). The lamp socket assembly may be discarded.



(3) Attach the OEM collector lens assembly to the Nanodyne illuminator.



(4) Place the original 3 screws to the lens assembly before fully insert the Nanodyne illuminator.



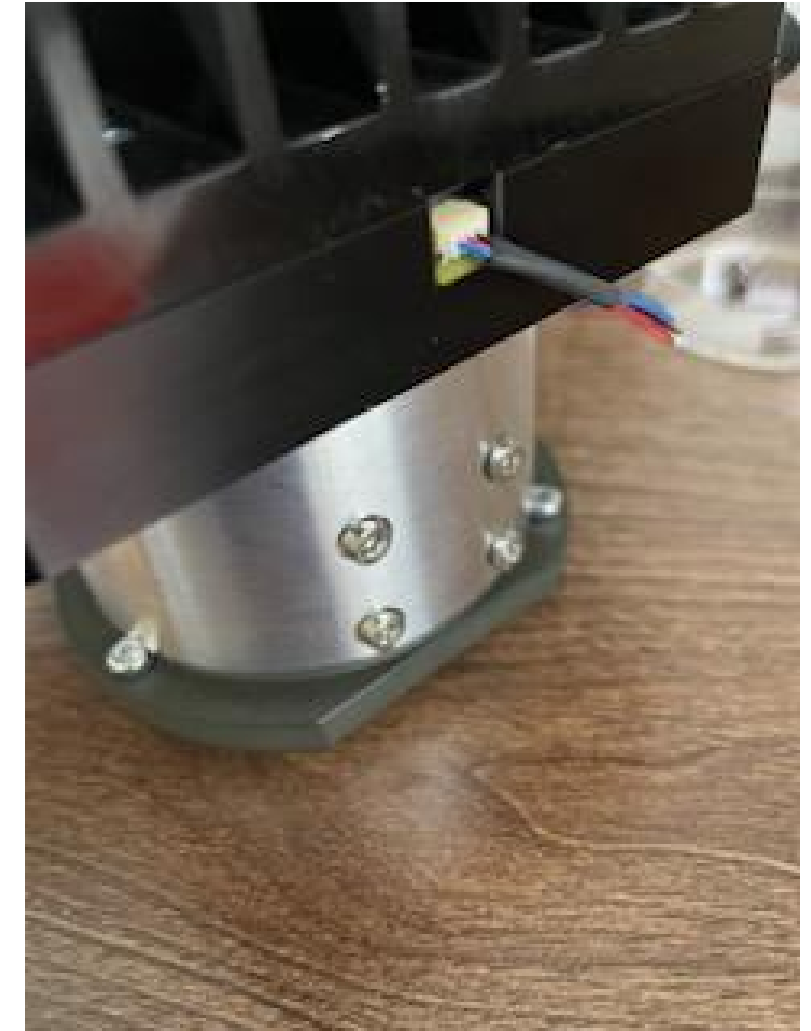
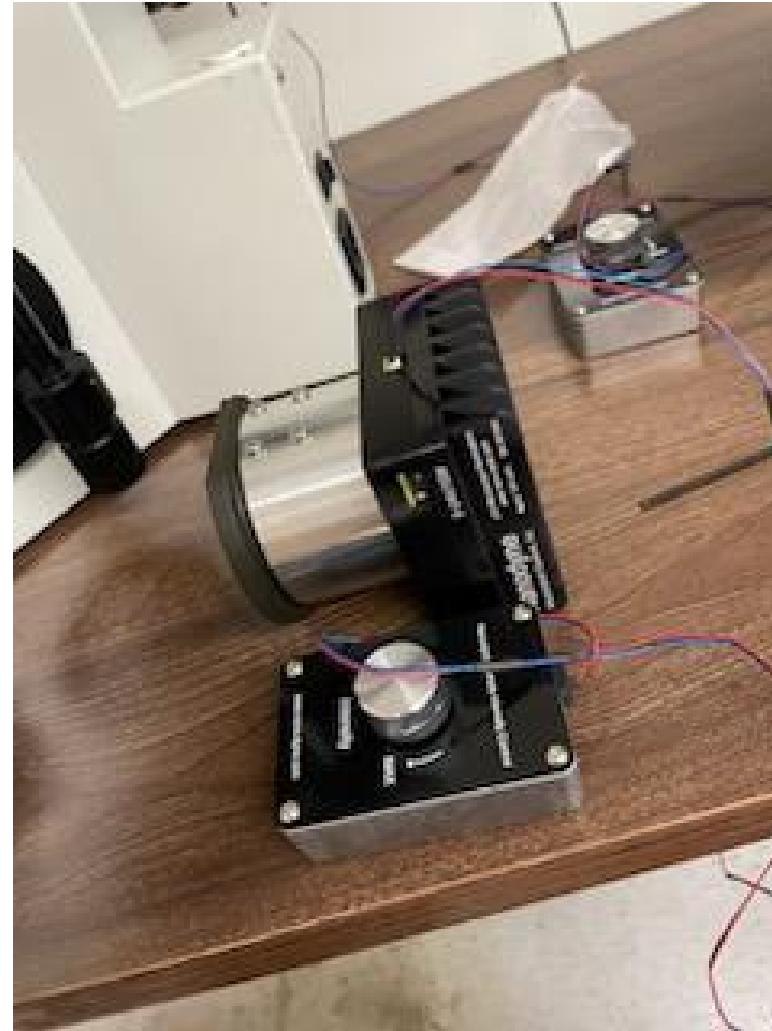
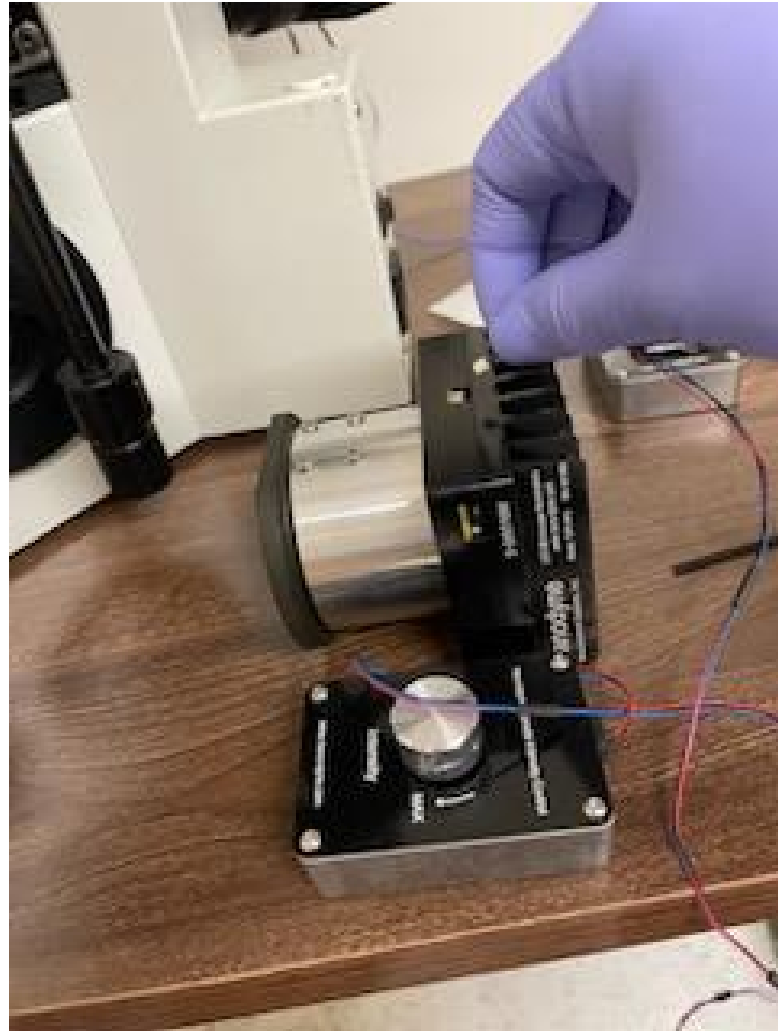
(5) Fully insert the OEM collector lens assembly to the Nanodyne illuminator.



(6) Tighten the 4 new M3 x 0.5 x 8mm cap screws provided using 2.5mm hex key.

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Nanodyne Illuminator for Olympus IX70 Microscope Installation Instructions: Install New Intensity Adjust Pot



(1) The adjustment pot cable plugs into the connector at the bottom of the illuminator. The connector is keyed to only fit one way. See the next sheet for detailed instructions to be sure it is properly engaged.

(2) (No photo) Secure the cable to the desired location with the red tape provided (shown on sheet 1). Loop the cable and secure it to take up any extra slack.

If you ever need to remove the cable, just firmly grab all 3 wires and pull it straight out with the speed. The connector is tougher than it looks.

NOTE - Next page shows details about how to connect the pot cable to the illuminator.

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Nanodyne Illuminator for Olympus IX70 Microscope Installation Instructions: Pot Cable Connection Details

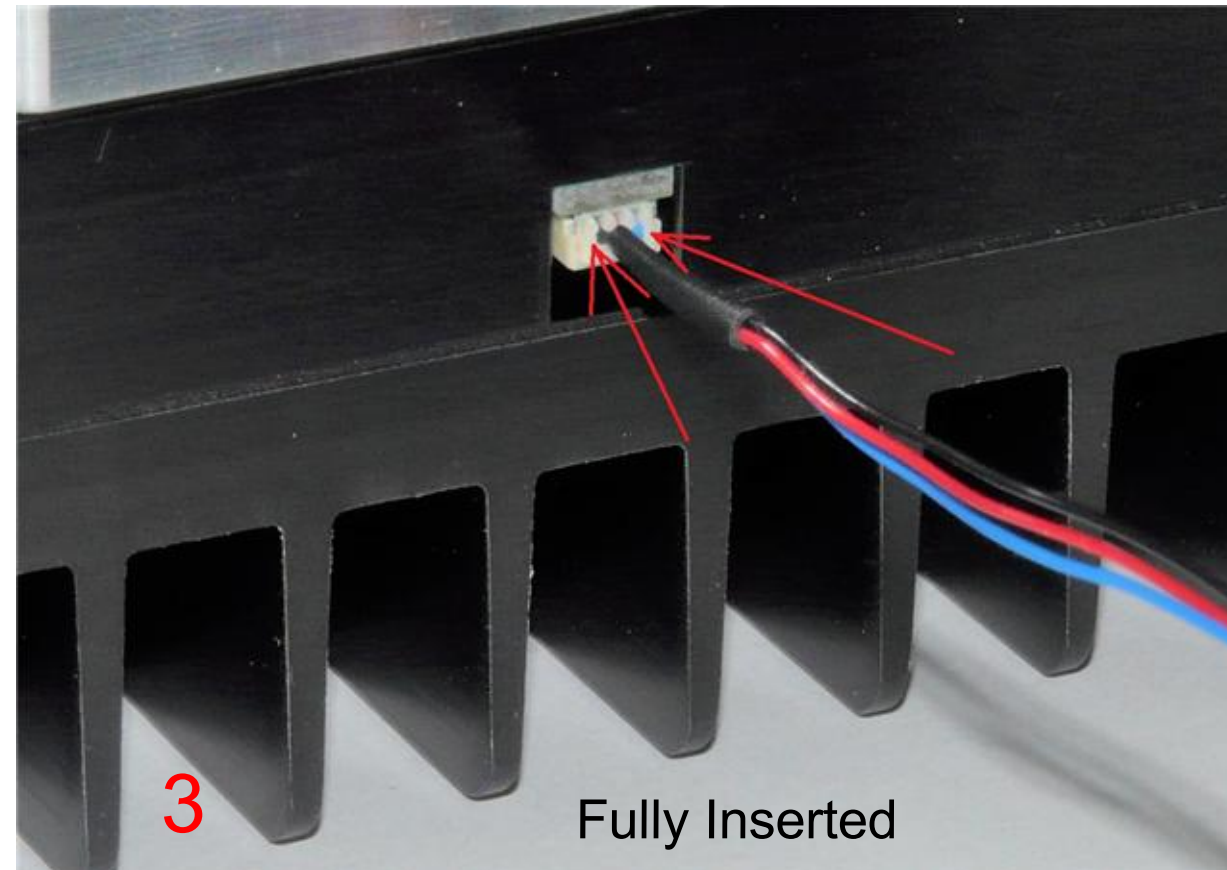
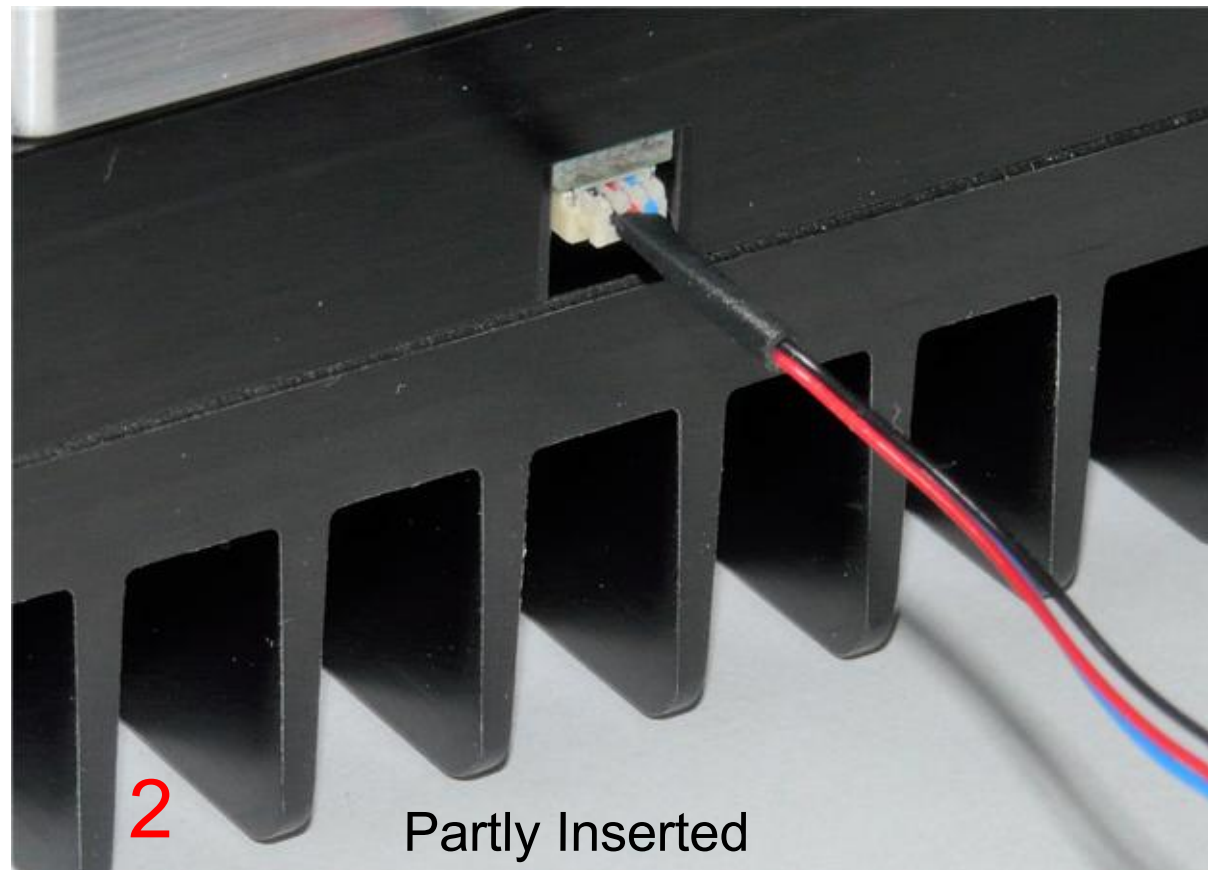
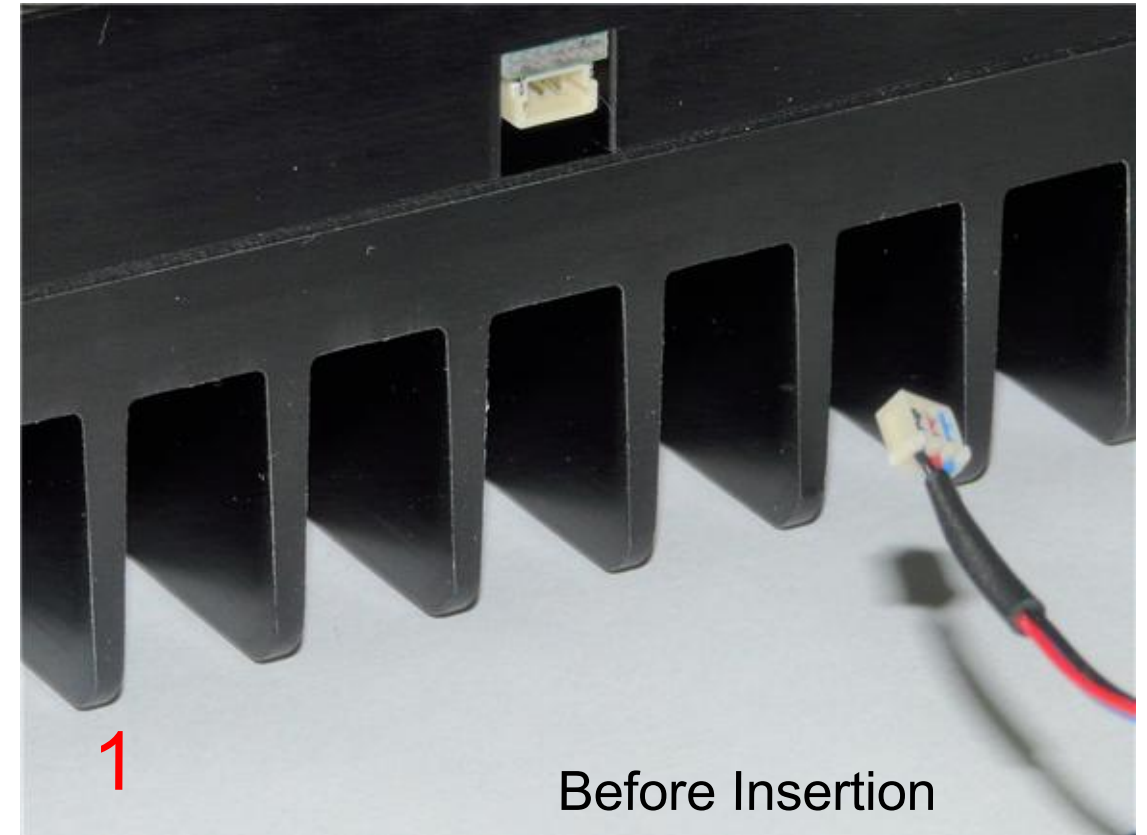
Connect the plug at the end of the Pot Cable Assembly to the mating socket of the illuminator, as shown in the pictures on this page. NOTE THAT THE PLUG IS KEYED TO ONLY GO INTO THE SOCKET ONE WAY, AS SHOWN.

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.



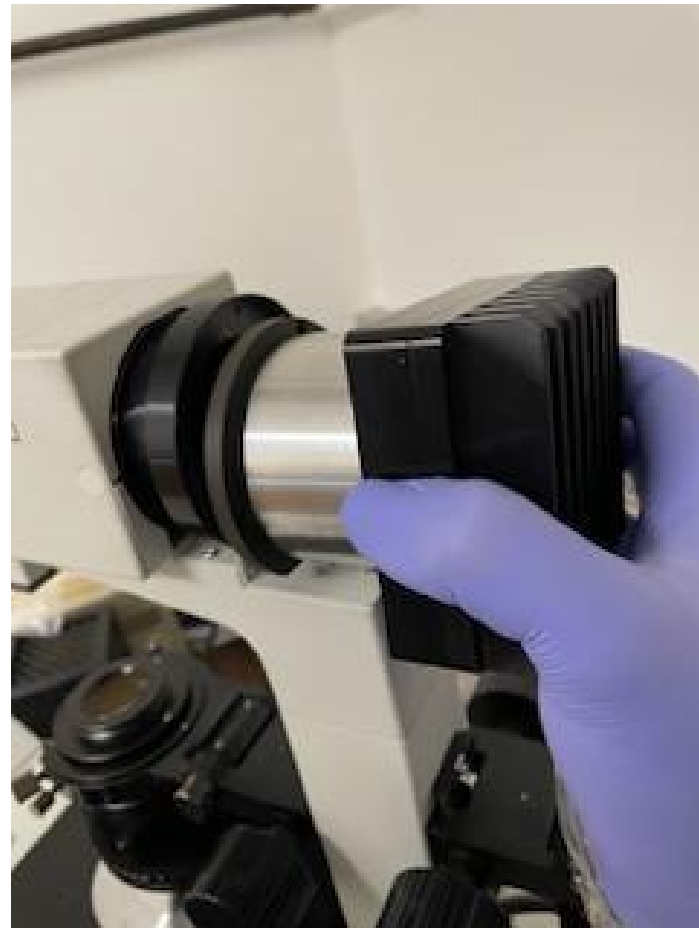
Nanodyne Illuminator for Olympus IX70 Microscope Installation Instructions: Electrical Safety, Mount New Illuminator and Connect New Power Supply



Install PN 10736 rubber blocking plug to deter connection of unneeded AC power.

The original 120/220VAC powered illuminator circuitry is completely obsolete by the Nanodyne equipment which is powered by a universal input wall plug power supply with low voltage DC output.

We recommend completely removing the original power supply circuitry to eliminate any possibility of an electrical or fire hazard in case someone mistakenly connects AC power to the microscope in the future.



(1) Insert the OEM collector lens assembly and the Nanodyne illuminator back to the microscope light port.



(2) Tighten the original 3 screws (red circle) using 2.5mm hex key provided.



(3) Connect the USB end of the power cable to the power supply wall mount. Connect the power supply to an AC outlet. The unit is now ready to operate.

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