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## Nanodyne Illuminator Replacement for Olympus BX50 & BX51 Top Illuminator - Installation Instructions

Step 1. Refer to the photos below to determine which type of illuminator is required, or that you have the correct items if already purchased. The basic Nanodyne illuminator is the same for both, but there are different options for intensity control, and different mounting screws.



Top Illuminator for viewing the sample by reflected light off the surface.

For this configuration, the intensity control pot is normally located on the top of the Nanodyne illuminator, and the installation does not require opening the microscope itself, (but the condenser lens must be removed from the original lamp housing and attached to the the Nanodyne illuminator). The original controls are left in place, but no longer used. (BX50 shown, also for BX51)

Follow the instructions in this document to install the Nanodyne replacement for the top illuminator.

If desired, the same intensity control as used for the lower illuminator may be requested. This does make the installation a bit more involved. See the instructions for the lower illuminator configuration.



Bottom illuminator for viewing by light transmitted through the sample.

If you are replacing this illuminator, you need PN 10408 Olympus BX50 Full Illuminator System (bottom illuminator). Please refer to installation document PN 10408 Olympus BX50 Bottom Illuminator Installation Instructions.

Important Note: This illuminator is intended to replace halogen (white light) illuminators. It is NOT intended as a replacement for mercury vapor (UV) lamps used for fluorescence.

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Sheet 3: Remove original lamp housing and salvage original condenser lens.



Remove the lamp housing from the microscope.

Open the lamp housing and remove the three socket head cap screws (use the 2.5mm hex key) to remove the condenser lens.

**If your original illuminator is NOT as pictured above**, you probably have a lower illuminator lamp housing. In that case you will use the 25 mm long PN 10267 screws, rather than the 8 mm long screws to attach the adapter, PN 10382 to the condenser lens. Also beware that the condenser lens has three parts that can come apart when the screws are removed, so be careful not to let the lens fall out and break.

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BX50-51 Top Illuminator Replacement Safety Warnings, optional if you are not opening the back cover, but recomended.

If you also have a lower halogen illuminator that you are not replacing IGNORE THIS SECTION, as you still need the AC power for that illuminator.

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The original 120/220VAC powered illuminator circuitry is completely obsoleted 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 elliminate any possibility of an electrical or fire hazard in case someone mistakenly connects AC power to the microscope in the future.

AT THE VERY LEAST, remove the power leads (red arrows in photo at right) from the AC input connector. They should be cut short so there is no possibility they could contact the power inlet, or insulated with heat shrink tubing or electrical tape.





(Optional) Installation of PN 10736 rubber plug is shown above.

Inside view of BX50 obsolete AC power input.

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