

Nanodyne Replacement Illuminator for Olympus BX40 Microscope Installation Instructions - Included Items



PN 10733 Power Supply - XP Power 5V 1A Fixed Blade US Input/USB Output



Tape to secure wires.



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.

Verify inclusion of all items shown here.

**NOTE - Photos on sheets 3 and 4 show an older model illuminator. The current model is shown on this page. The old model has 8 holes in the back. The current model has no holes in the back. They are interchangeable.**

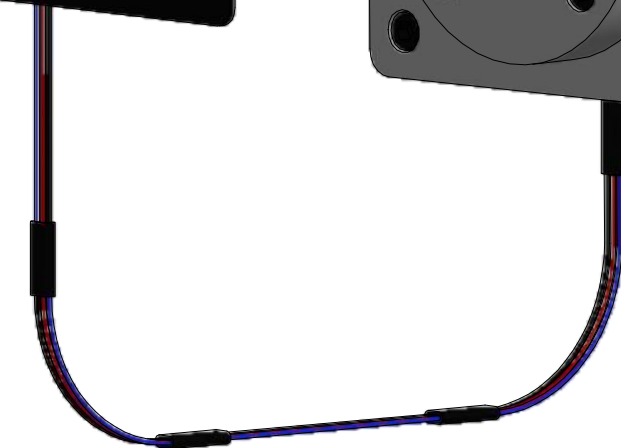
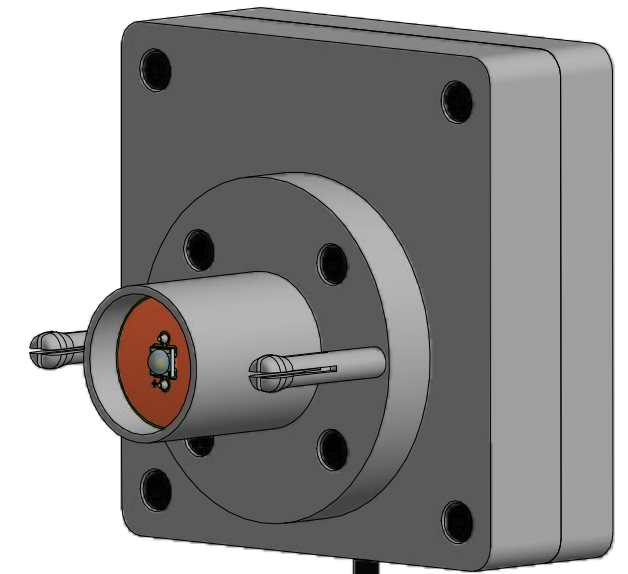


PN 10736 Rubber plug to block unused AC power receptacle.



PN 10908 BX40 Pot Plate - Cable Assy

PN 10334 Olympus BX40 Series Illuminator Assy



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

|                                                             |              |       |
|-------------------------------------------------------------|--------------|-------|
| Han-Seung Yang                                              | 2/20/2019    |       |
| PN 10450 Olympus BX40 Illuminator Installation Instructions |              | REV 4 |
|                                                             | SHEET 1 OF 4 |       |

Nanodyne Replacement Illuminator for Olympus BX40 Microscope Installation Instructions - Step 1. Remove old illuminator, back cover and install Nanodyne plate.



Photo 1a

Remove the OEM illuminator from the microscope, and remove the back cover of the microscope to expose the plate with the intensity adjust circuit (green printed circuit board in photo above right) attached to it. The plate is held by a tape-like adhesive coating (the yellow color on the back of the plate visible in the photo at right). Press or pry out the original plate (along with the Printed circuit board). Disconnect or cut the wires as required.

Original intensity control plate.  
(to be removed)



Photo 1b

The Nanodyne replacement plate (PN 10908 shown on page 1) is also held in with adhesive tape. Check the mounting surface after removing the original plate, and remove any residual tape that could interfere with adhesion of the new plate. Peel off the release film protecting the adhesive on the Nanodyne plate, and press it into place.

|                          |  |           |
|--------------------------|--|-----------|
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| PN 10450 Olympus BX40    |  | REV       |
| Illuminator Installation |  | 4         |
| Instructions             |  |           |
| SHEET 2 OF               |  | 4         |

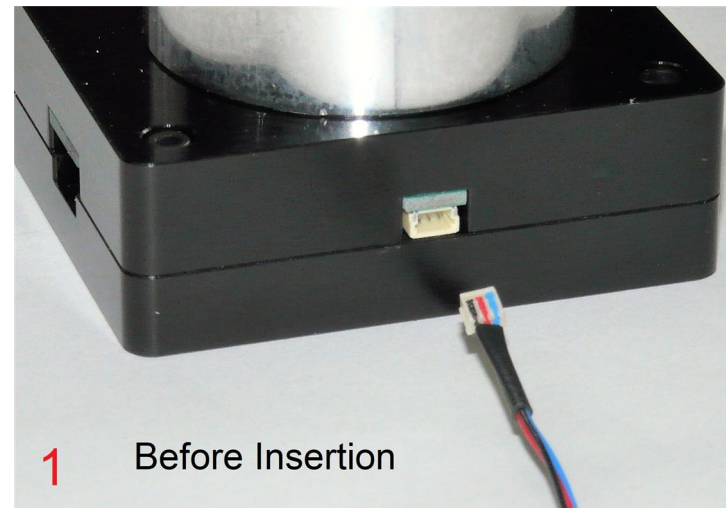
Nanodyne Replacement Illuminator for Olympus BX40 Microscope Installation Instructions - Step 2. Connect the Pot Cable to the illuminator.



Plug the Nanodyne illuminator into the receptacle in the same way as the original.

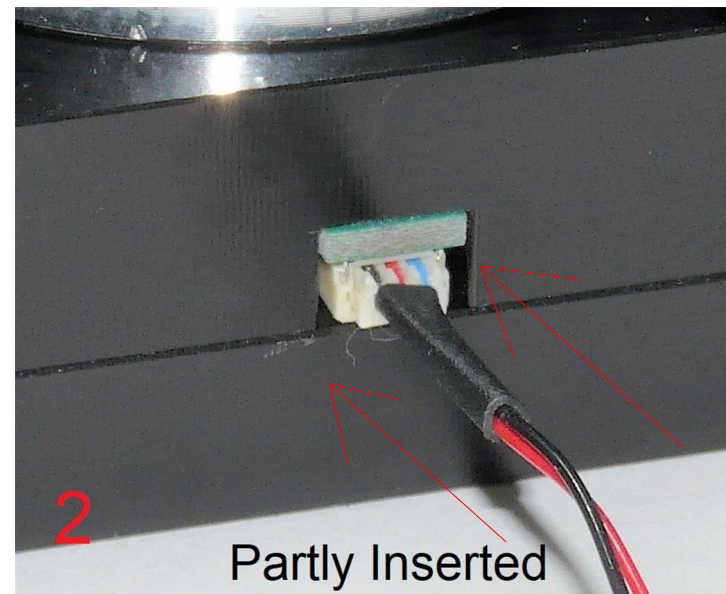
The red line drawn in on the above photo shows the desired path of the intensity adjust cable, coming from the adjustment pot on the plate, and ending where it is plugged in to the bottom of the illuminator. Secure the cable in place with the tape that is provided.

**NOTE -** This photo shows a BX41 installation. It is the same as a BX40 installation, except the intensity adjustment cable goes to the adjustment pot near the front of the microscope, rather than the plate near the back of the microscope as on the BX40. The cable in the above photo is an older version that came out of the illuminator. The current cable is shown in the photos to the right.



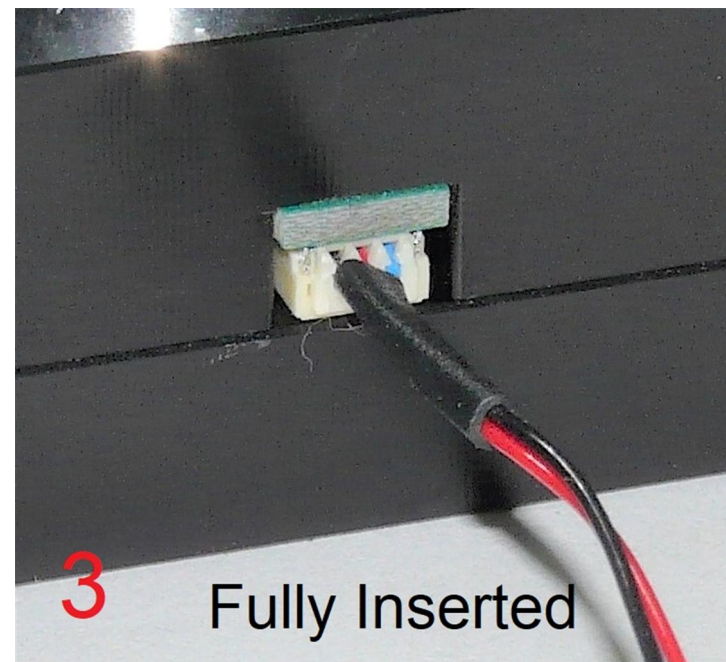
1 Before Insertion

Left photo showing receptacle at bottom of illuminator and cable that plugs into it. Connect the socket at the end of the Pot Cable Assembly to the mating socket of the illuminator, as shown in the pictures on this page.



2 Partly Inserted

The plug should go in this far with no resistance. If there is any resistance turn the plug around. If there is still resistance inspect for damage or obstruction. After partially inserting the socket to the mating socket of the illuminator with your finger, use other mechanical tools such as driver or tweezers to firmly insert the socket all the way by pushing back edge of the socket as indicated with the red arrow in the image 2.



3 Fully Inserted

Fully insert the plug by pushing on the wires. You should feel a slight snap as it engages. The wires can be bent at 90 degrees near the plug to keep them close to the illuminator. The socket cannot be fully engaged by pushing on the wire attached as the wires would just collapse. If you want to pull the socket out, pull the wire straight out by firmly gripping the black heat shrink tubing.

|                                                                   |           |
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| PN 10450 Olympus BX40<br>Illuminator Installation<br>Instructions | REV<br>4  |
| SHEET 3                                                           | OF 4      |

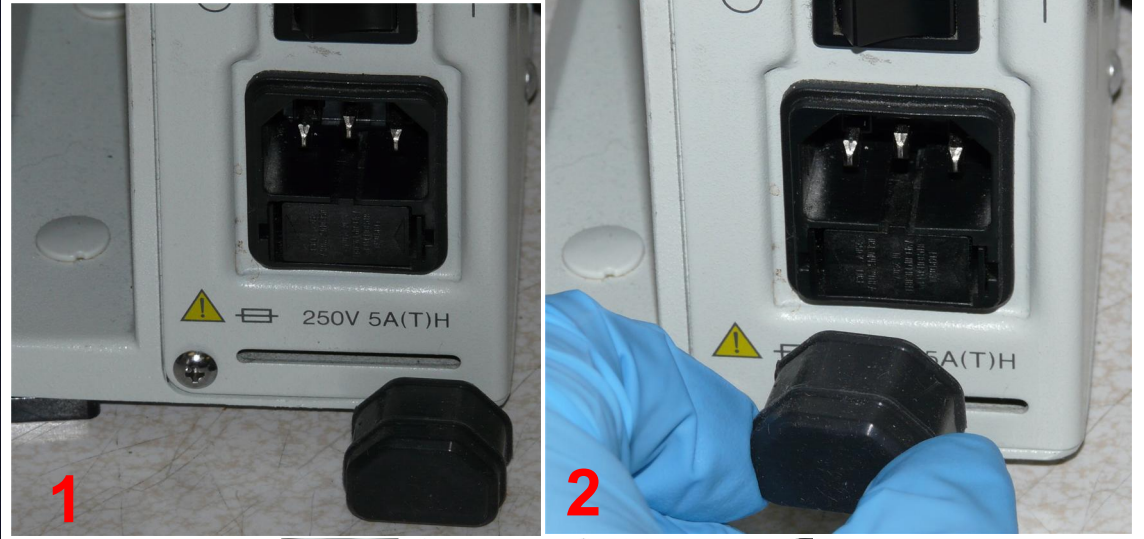
Nanodyne Replacement Illuminator for Olympus BX40 Microscope Installation Instructions - Step 3. Install back cover and Nanodyne illuminator.



Photo with old cable - new cable shown on sheet 3.

**NOTE - This photo shows the older R1 cable, which was came out of the illuminator assembly and plugged into the pot plate. The new R2 cable comes attached to the pot plate and plugs into the bottom of the illuminator.**

**(No microscope was available for photos of the installation with the new cable)**



Replace the back cover of the microscope.

Install PN 10736 rubber plug into the AC power receptacle to deter application of obsolete and potentially dangerous voltage to the microscope.

Plug in the power supply and the installation is complete.

|                                                                   |           |
|-------------------------------------------------------------------|-----------|
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| PN 10450 Olympus BX40<br>Illuminator Installation<br>Instructions | REV<br>4  |
| SHEET 4                                                           | OF 4      |