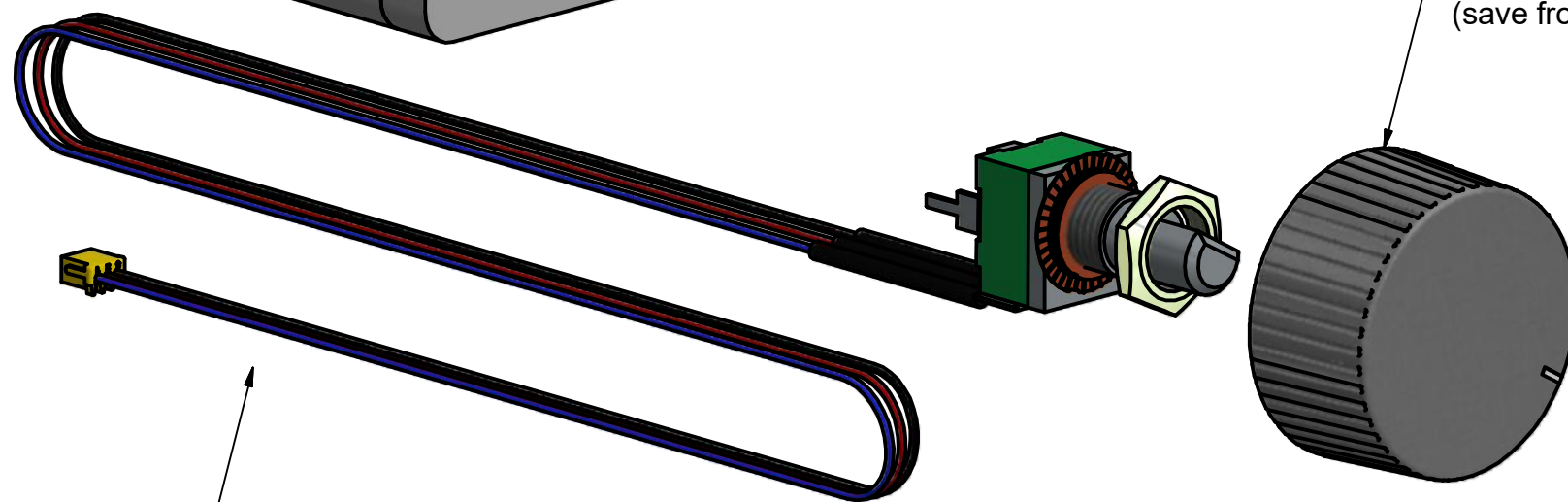
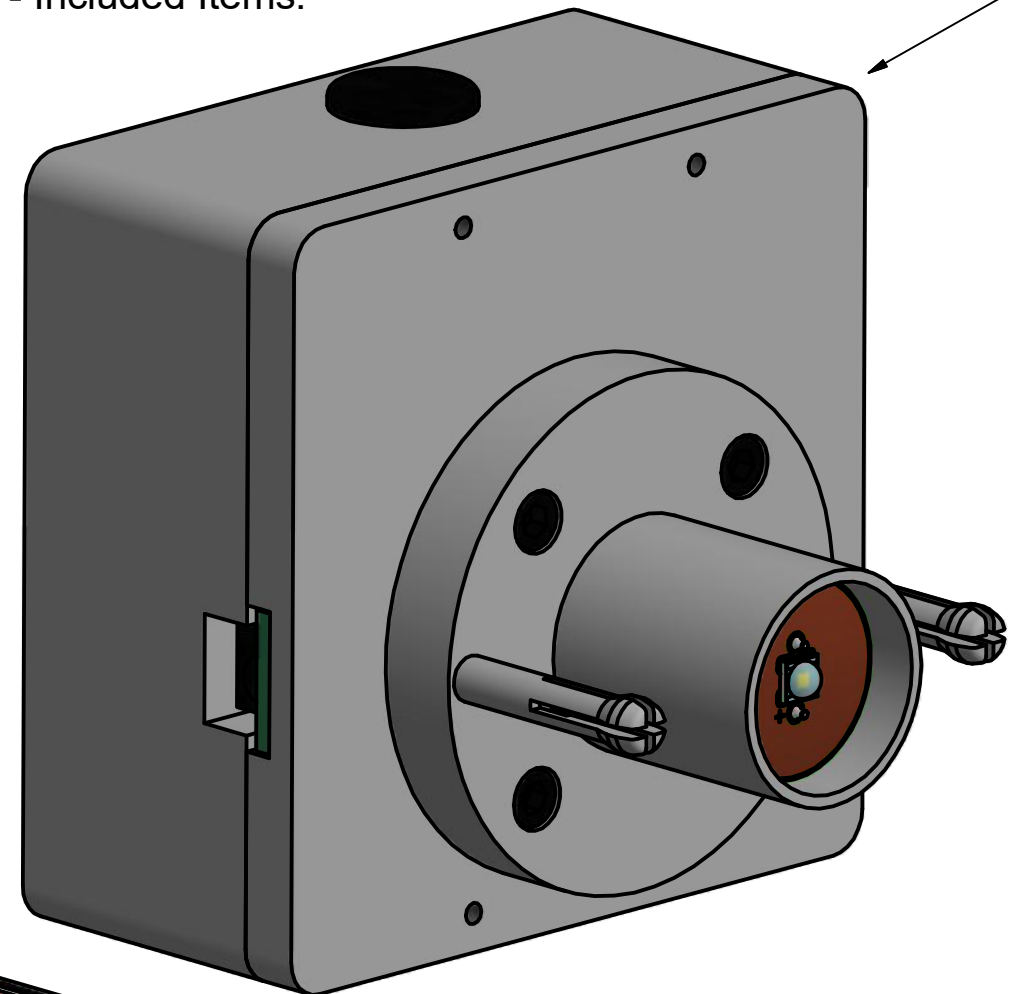


Replacement Illuminator Installation Instructions - Olympus BX41

Sheet 1 - Included Items:

PN 10334 R2 Olympus T2PI BX40 Series Illuminator Assy



Pot Knob from BX41
(save from original microscope)

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

PN 10603 BX41 Pot-Cable Assy

Additional Items Included But Not Shown:

- PN 10456 Hex Key 1.5mm
- 3 pcs PN 10610 cable ties
- 3M VHB tape

Additional Items Required but Not Included:

- 11mm hex socket (to remove old adjustment pot)
- 10mm hex socket (to install new adjustment pot)
- Misc tools to remove and replace microscope covers

Not Included:

- Knob - Save from original BX41 microscope



PN 10736 Rubber plug to block unused AC power recepticle.



PN 10734 Cable Assy 1.35mm ID x 3.5mm OD RA plug to USB A 6 foot



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

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.

Han-Seung Yang		12/18/2017
PN 10472 Olympus BX41 Installation Instructions		REV 4
SHEET 1	OF	8

Sheet 2 - Safety and misc.

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

The original circuitry may be left in place, or removed as it is no longer used.

Regardless whether the original circuitry is left in place or removed, be sure there is no possibility of electrical hazard in case an unfamiliar user connects power to the old high voltage AC input.

We recommend removing the power leads (usually one black and one white wire) 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.



After installation of the Nanodyne illuminator, there should be no power connections left in place to the AC power inlet. The ground wire should be left connected.

Han-Seung Yang		12/18/2017
PN 10472 Olympus BX41 Installation Instructions		REV 4
SHEET 2		OF 8



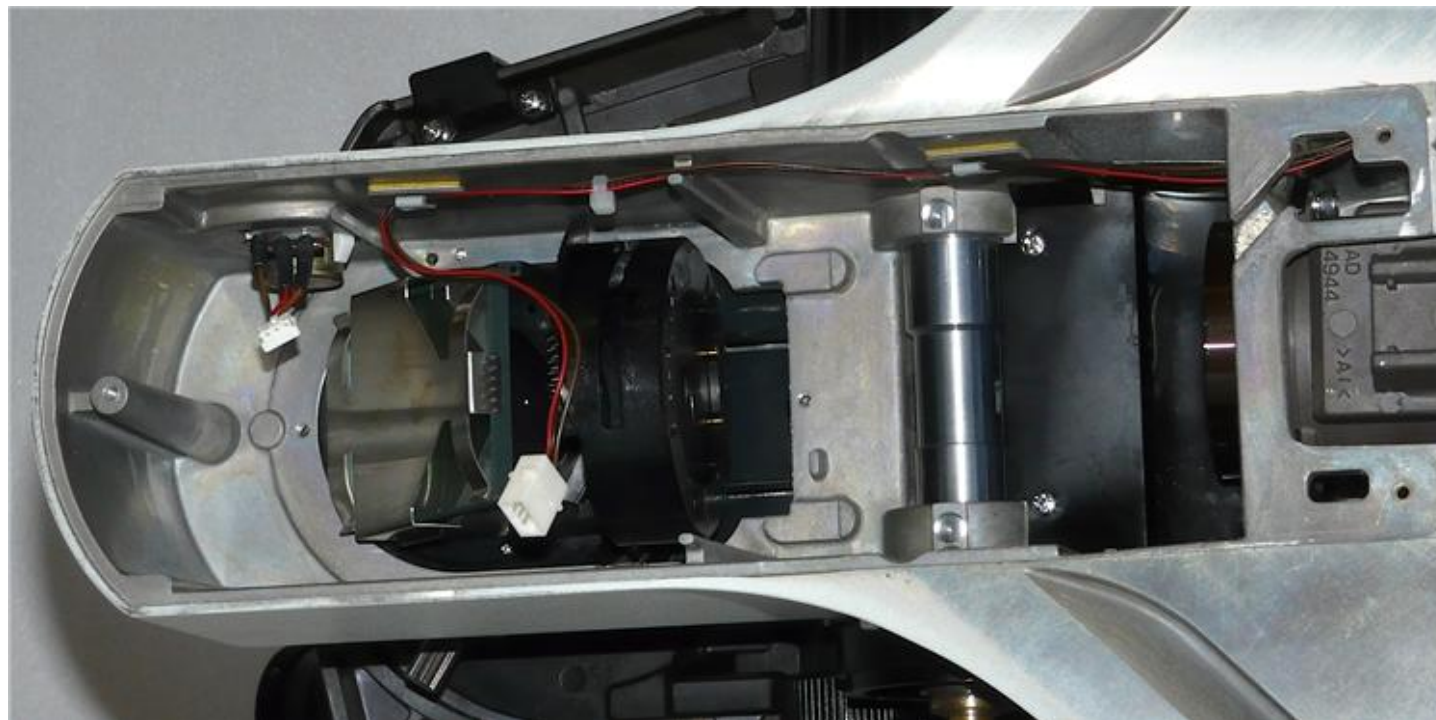
The scope used for these photos was a boneyard unit with parts scavanged from it.

(FYI for those who might wonder why certain parts are missing)



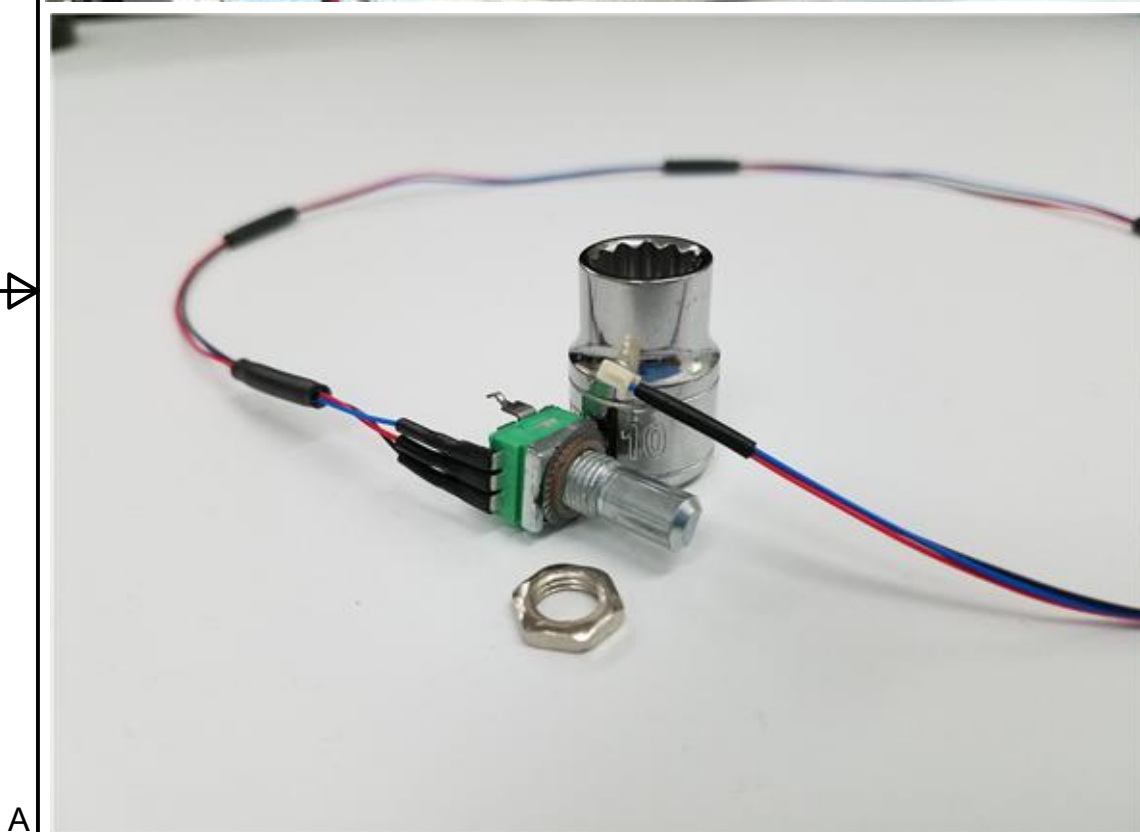
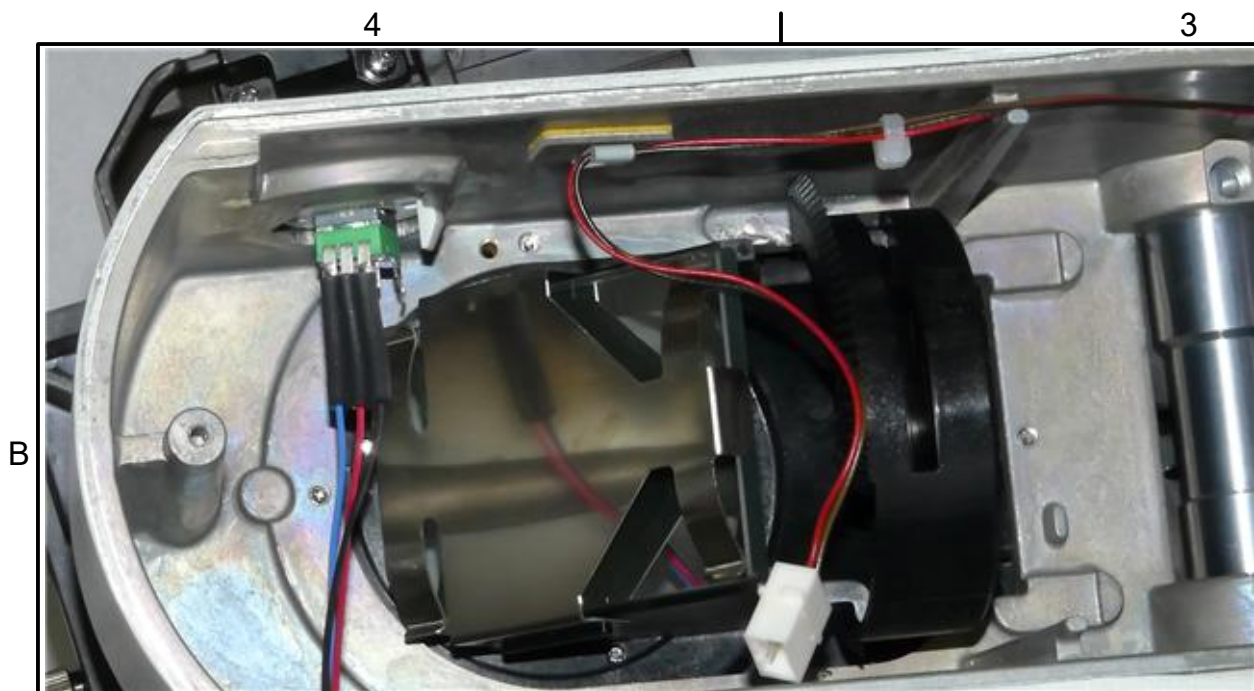
Step 1: Remove the back and bottom covers from the microscope (not shown).

Step 2: Loosen the set screw in the adjustment knob with the 1.5mm hex key and remove the knob from the pot.



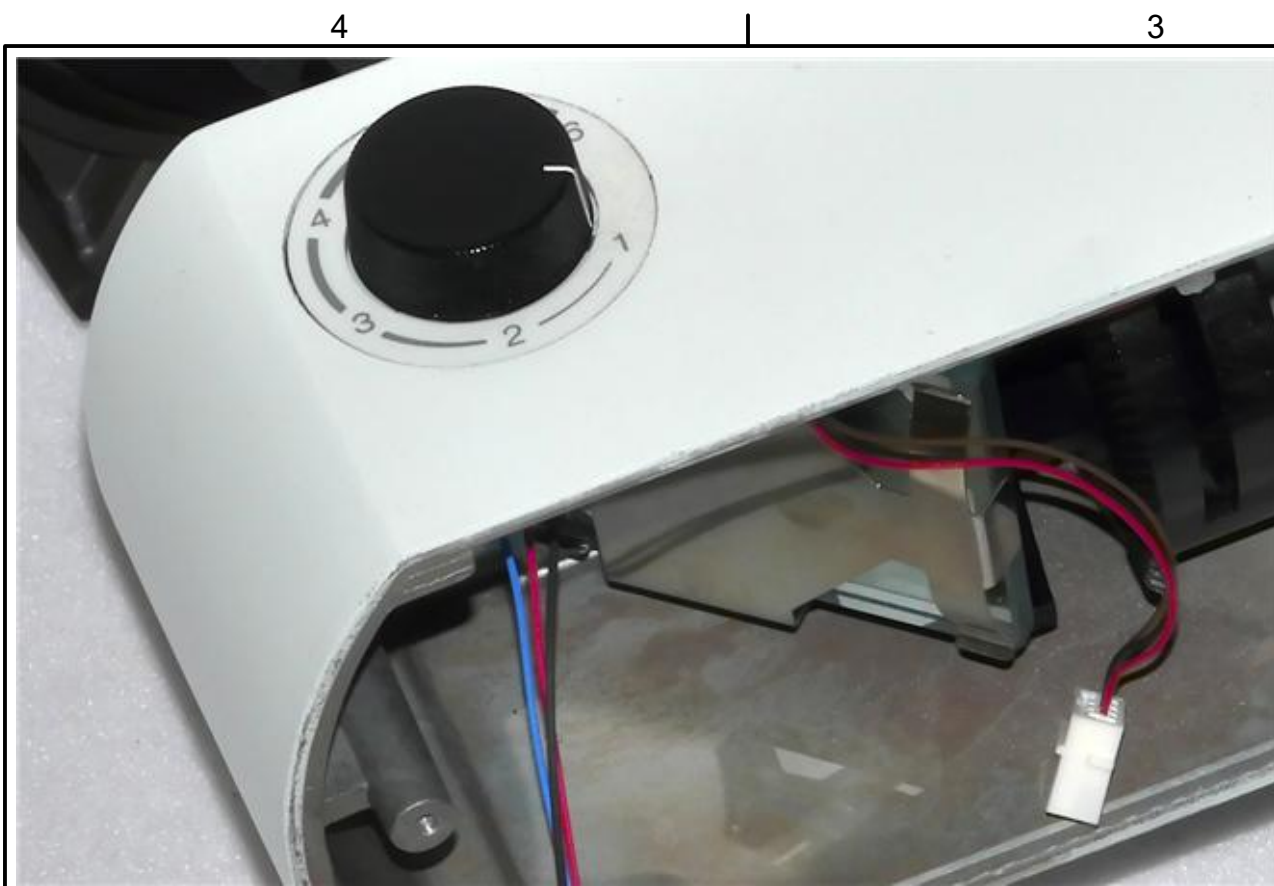
Step 3: Disconnect the Adjustment pot from the cable as shown above, remove the nut holding the pot in place with an 11mm socket, and remove the original pot.

Han-Seung Yang		12/18/2017
PN 10472 Olympus BX41 Installation Instructions		REV 4
SHEET 3		OF 8

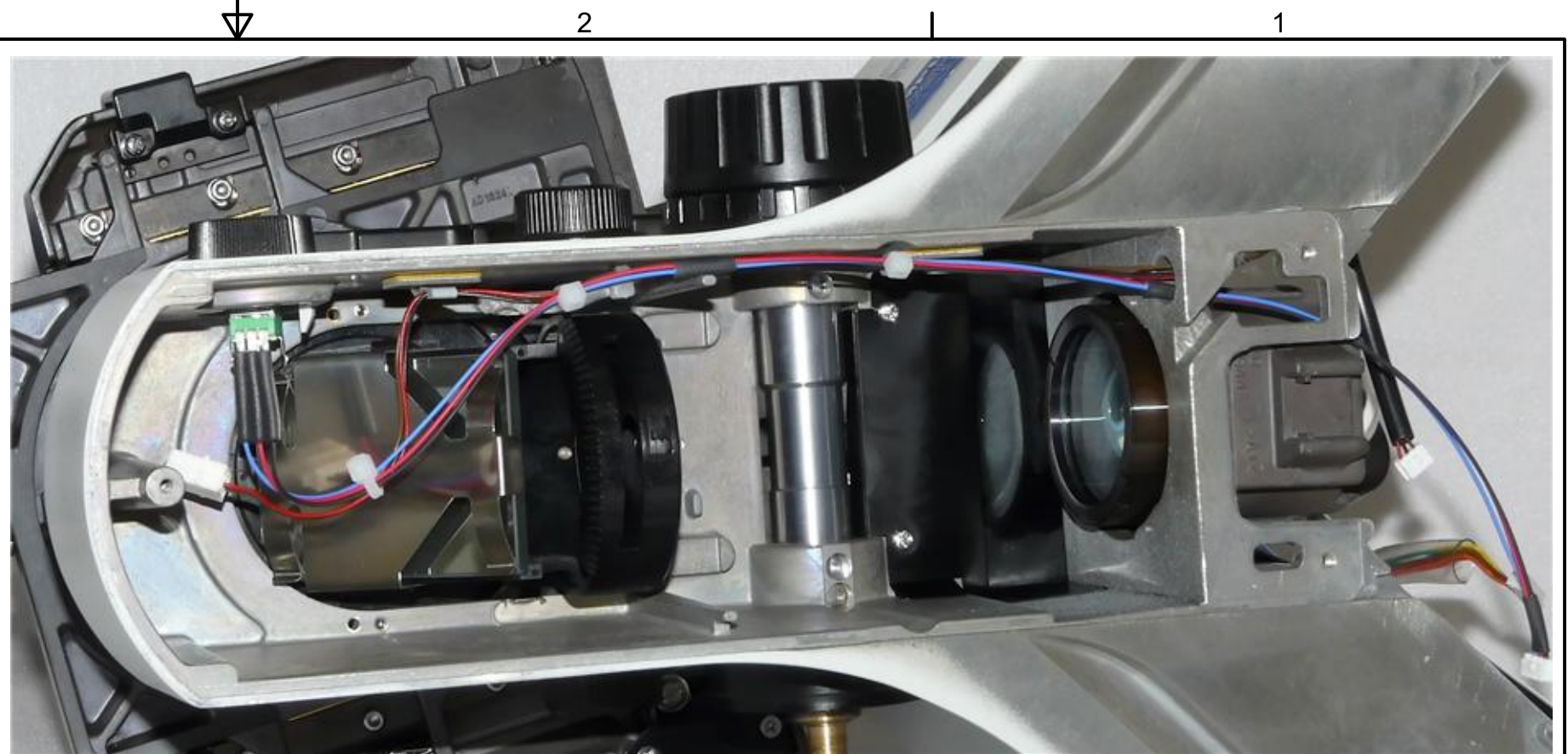


Step 4: Install the new pot-cable assembly. Remove the nut from the pot. Do not attempt to remove the washer. It is glued in place. It was designed specifically for this microscope to prevent the pot from rotating while tightening the nut. Place the pot as shown in the lower left photo, and install the nut with a 10 mm socket. Tighten securely by hand without tools other than the socket.

Han-Seung Yang		12/18/2017
PN 10472 Olympus BX41 Installation Instructions		REV 4
SHEET 4		OF 8



Step 5: Re-install the knob on the pot with the 1.5mm hex key.



Step 6: Secure the cables as shown above with the 3 tie wraps, to keep the cables out of the moving parts of the microscope, and the optical path from the illuminator.

Han-Seung Yang		12/18/2017
PN 10472 Olympus BX41 Installation Instructions		REV 4
SHEET 5		OF 8



Step 7: Plug the Nanodyne illuminator into the microscope port, and secure the cables out of the way as shown above, using the strip of 3M VHB tape provided.

*Note: Detailed Pot Cable insertion procedure to the T2PI Main Assembly is shown in step 8.

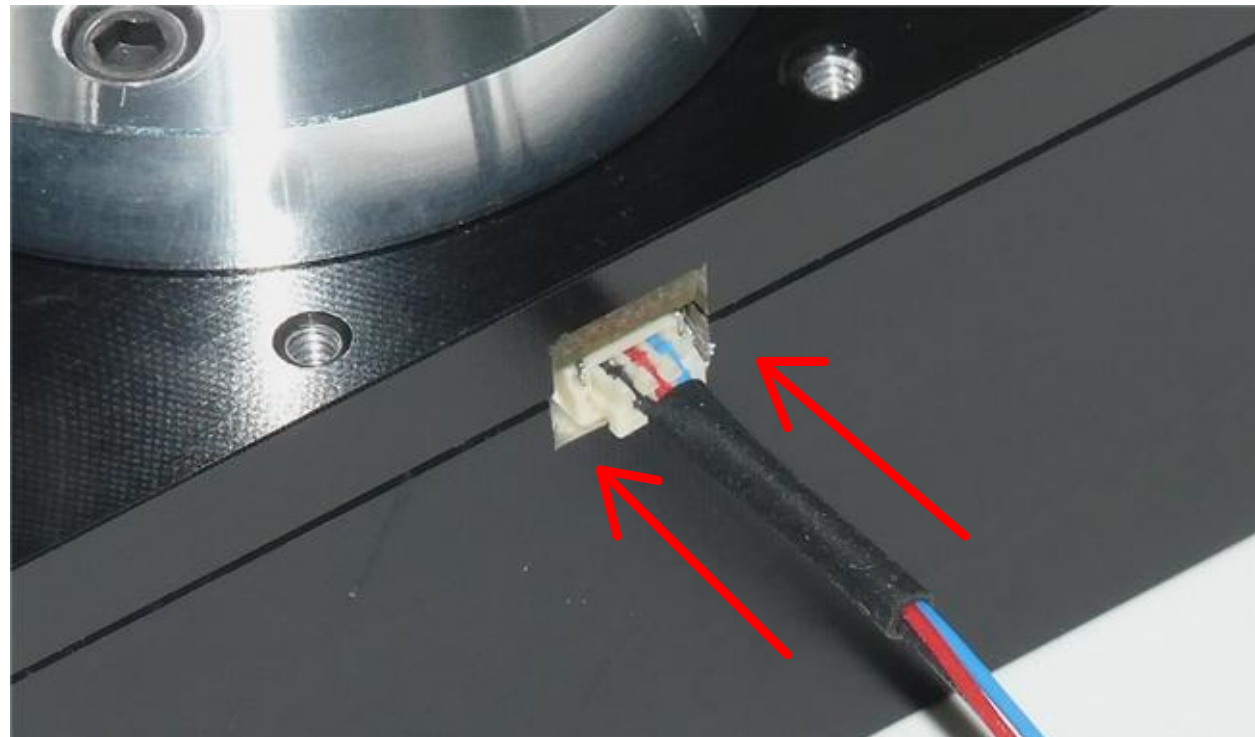
Han-Seung Yang		12/18/2017
PN 10472 Olympus BX41 Installation Instructions		REV 4
SHEET 6		OF 8

Step 8: Connect the socket at the end of the PN 10603 Pot Cable Assembly to the mating socket of the illuminator, as shown in the pictures on this page.

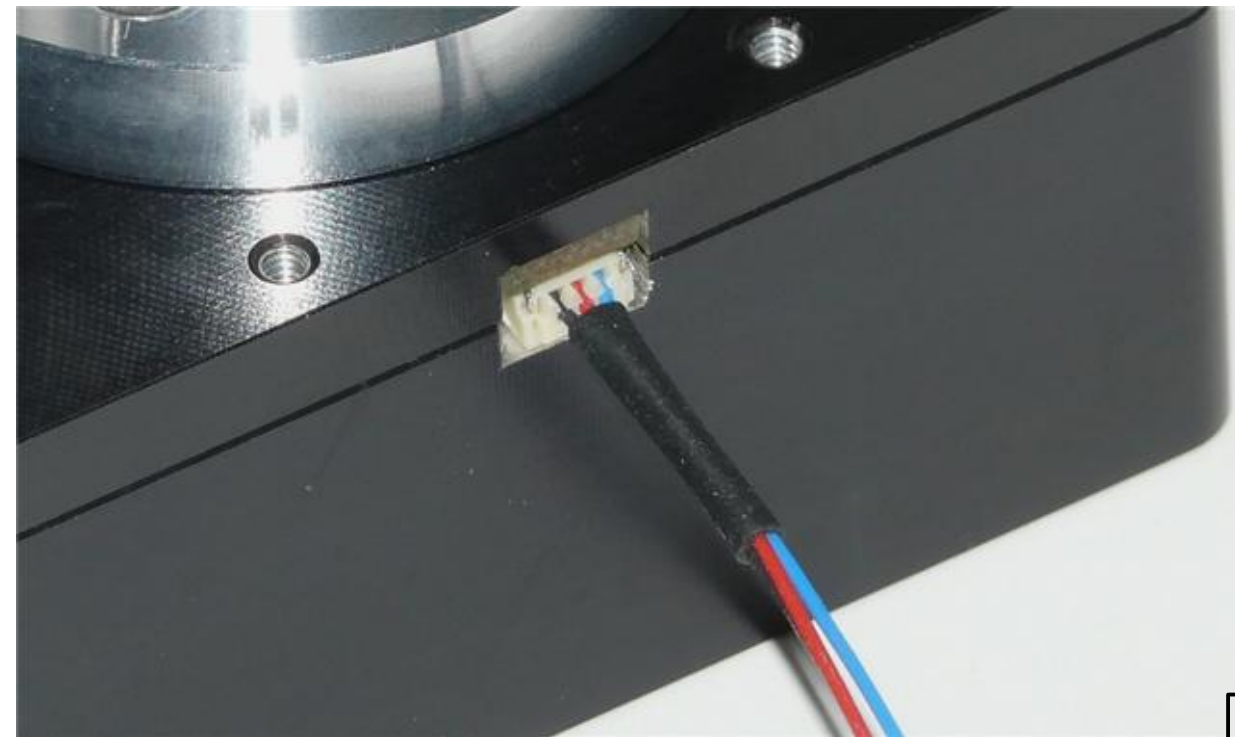
After partially inserting the socket to the mating socket of the illuminator with your finger, use other mechanical tools such as driver or tweezers to firmly insert the socket all the way by pushing back edge of the socket as indicated with the red arrow in the bottom left photo.

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.



Partially Inserted

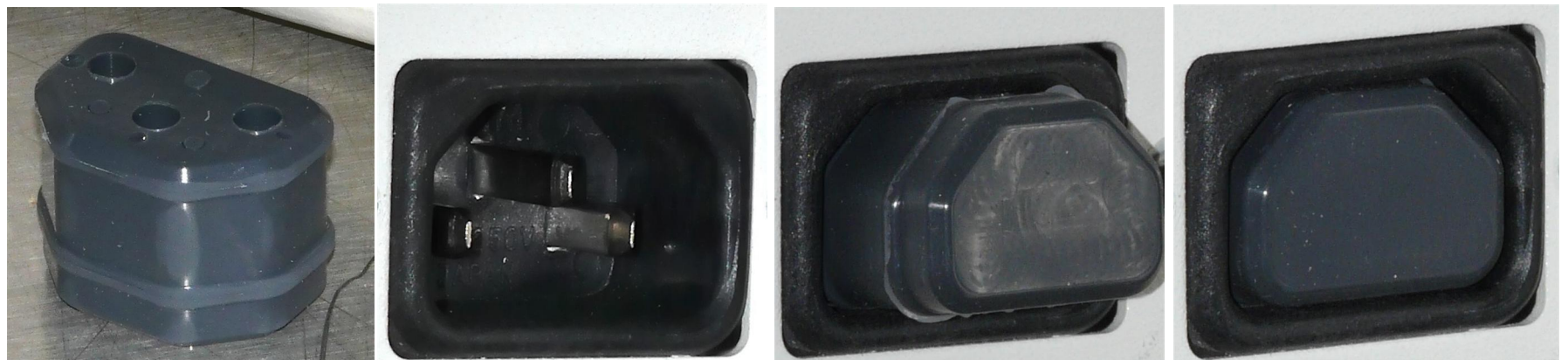


Fully Inserted



Step 9: Replace the microscope covers, insert PN 10736 rubber plug into AC receptacle (red circle) to deter attachment of unneeded AC power cord, plug in the power supply, and the installation is complete.

Note: Installation of PN 10736 rubber plug is shown below.



Han-Seung Yang		12/18/2017
PN 10472 Olympus BX41 Installation Instructions		REV 4
SHEET 8		OF 8