

Nanodyne Replacement Illuminator for Leitz Laborlux Microscope (Bottom): Included Items

PN 11541 Leitz Laborlux
illuminator Assy (Bottom)

PN 11500 Leitz Laborlux
Adapter Plate (Bottom)

PN 11504 SHCS M4 x 0.7 x 20mm
(2 pcs)

PN 10467 Set Screw
8-32 Brass Tip

PN 11055 Pot-Cable Assy - detabbed
(with 8 inch long cable)

PN 12014 Knob 0.25 in shaft 0.625 dia BLK Gloss

Additional Items Included But Not Shown:

- PN 10490 Hex Key 5/64 inch for set screw
- PN 10747 Hex Key 3mm for M4 screws
- PN 11309 Hex Key 1/16 inch for knob set screw



Tape to secure wires.



PN 10733 Power Supply - XP
Power 5V 1A and 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.

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



PN 10736 Rubber plug to block
unused AC power receptacle.

Nanodyne Replacement Illuminator for Leitz Laborlux Microscope (Bottom) Installation Instructions: Step 1. Remove Bottom Cover and Original Knob.



(1) These photos show the microscope this illuminator system was designed for.

(2) Remove the 4 screws holding bottom cover using screw driver and open the bottom cover. Keep the screws for later.



(3) Original electrical parts and wires.



(4) Loosen the set screw using the 5/64 in hex key provided.



(5) Remove the OEM knob.

Nanodyne Replacement Illuminator for Leitz Laborlux Microscope (Bottom) Installation Instructions: Step 2. Remove OEM potentiometer and Disconnect Old Wires.



(1) Unscrew the nut holding the OEM pot using a 13mm hex socket.



(2) If it is too tight, you can use a wrench.



(3) Remove the nut and washer, and keep it for later.



(4) Disconnect the OEM pot cable.



(5) Remove OEM potentiometer and all wire connections to the AC power receptacle.



*Note: The original electrical parts are now obsolete. You can cut or completely remove the wires if desired.

Nanodyne Replacement Illuminator for Leitz Laborlux Microscope (Bottom) Installation Instructions: Step 3. Remove Old Electronics and install a new Pot.



(1) Remove now-obsolete old transformer if desired.



(2) Secure the new pot in place with the original nut and washer.



(3) Tighten the nut holding the adjustment pot using a 13mm hex socket. You can use a wrench if desired.



(4) Install the new knob provided using the 1/16 in hex key.

4

3

2

1

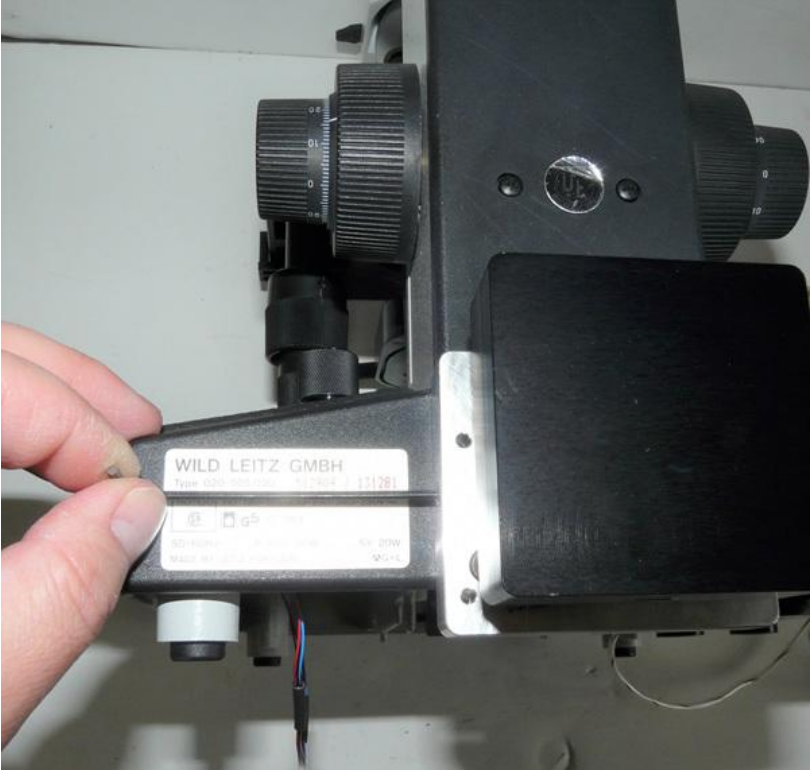
Nanodyne Replacement Illuminator for Leitz Laborlux Microscope (Bottom) Installation Instructions: Step 4. Install Nanodyne Adapter, Illuminator and Route Pot Cable.



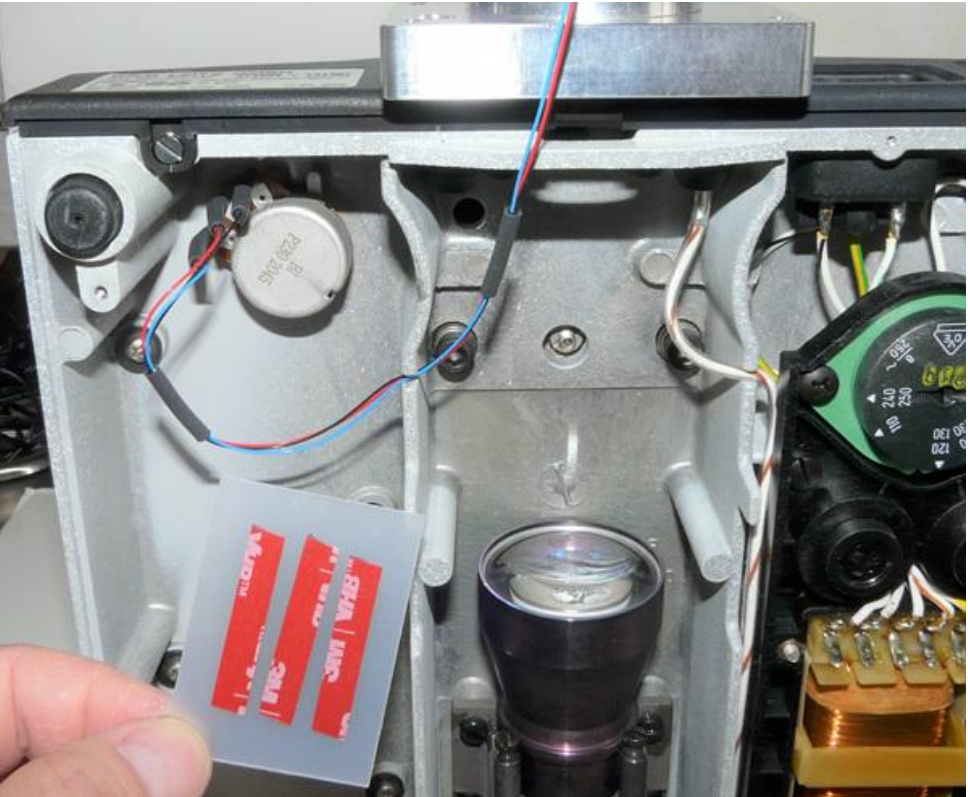
(1) Install Nanodyne adapter with the two M4 screws provided.



(2) Insert Nanodyne illuminator.



(3) Tighten the set screw using 5/64 in hex key provided.



(4) Secure the pot cable with the 3M VHB tape provided (red, in above photo).



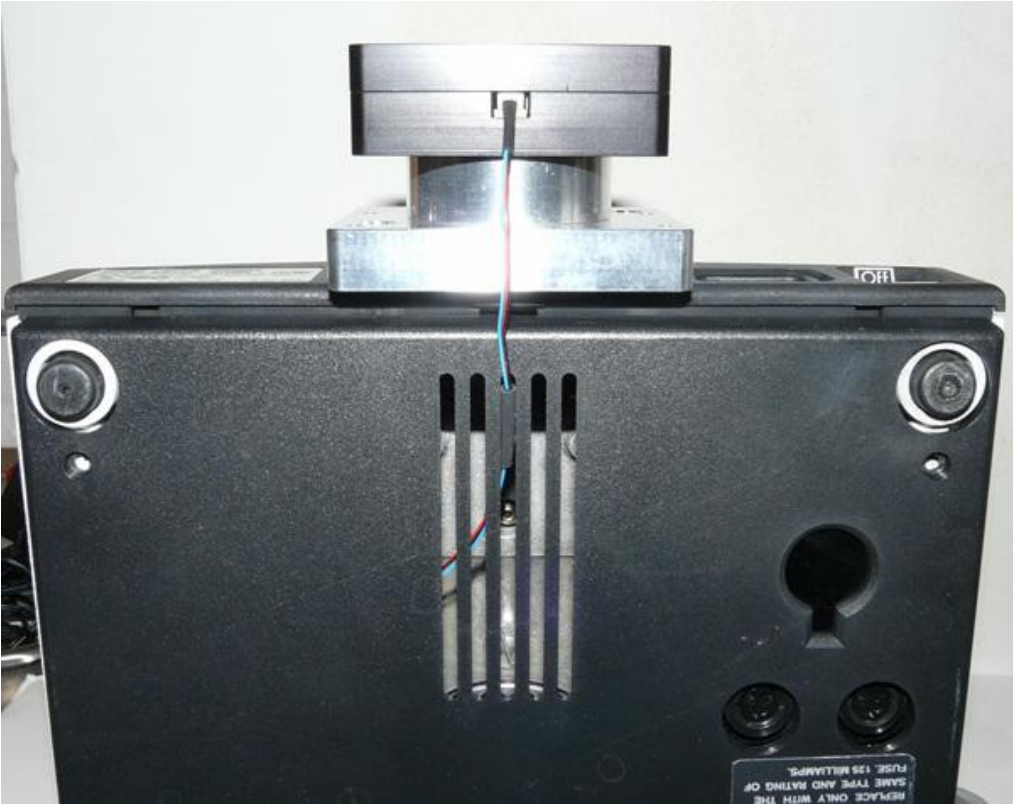
(5) Put the pot cable through the slit and replace the bottom cover.



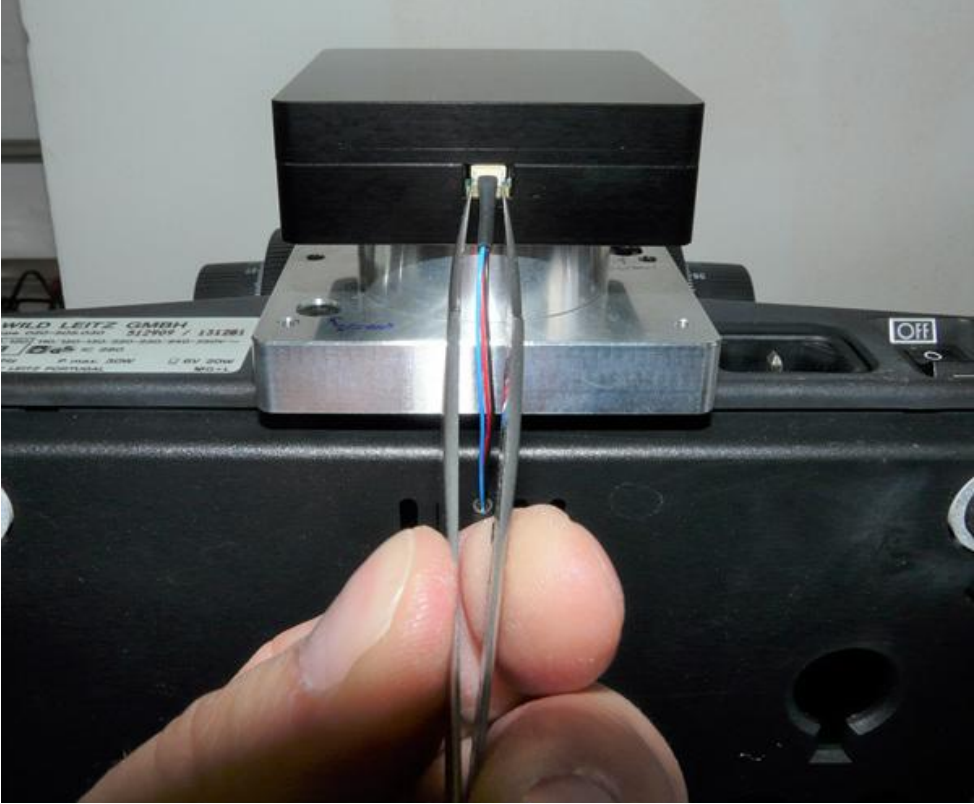
Nanodyne Replacement Illuminator for Leitz Laborlux Microscope (Bottom) Installation Instructions: Step 5. Connect Pot Cable and Plug in Power Supply.



(1) Tighten the 4 original screws saved.



(2) Connect the pot cable to the illuminator.



(3) Use tools like a tiny screwdriver or tweezers pushing on the side of the plug to fully insert it if needed.

*Note that the pot connector fits only one way. Detailed pot cable connection procedure is shown on the next page (sheet 7).



(4) Plug in power cable to the illuminator.



(5) Insert PN 10736 rubber plug to block now-obsolete AC power receptacle.



(6) Now the illuminator is ready for use.

Nanodyne Replacement Illuminator for Leitz Laborlux Microscope (Bottom) Installation Instructions: Pot Cable Connection Details

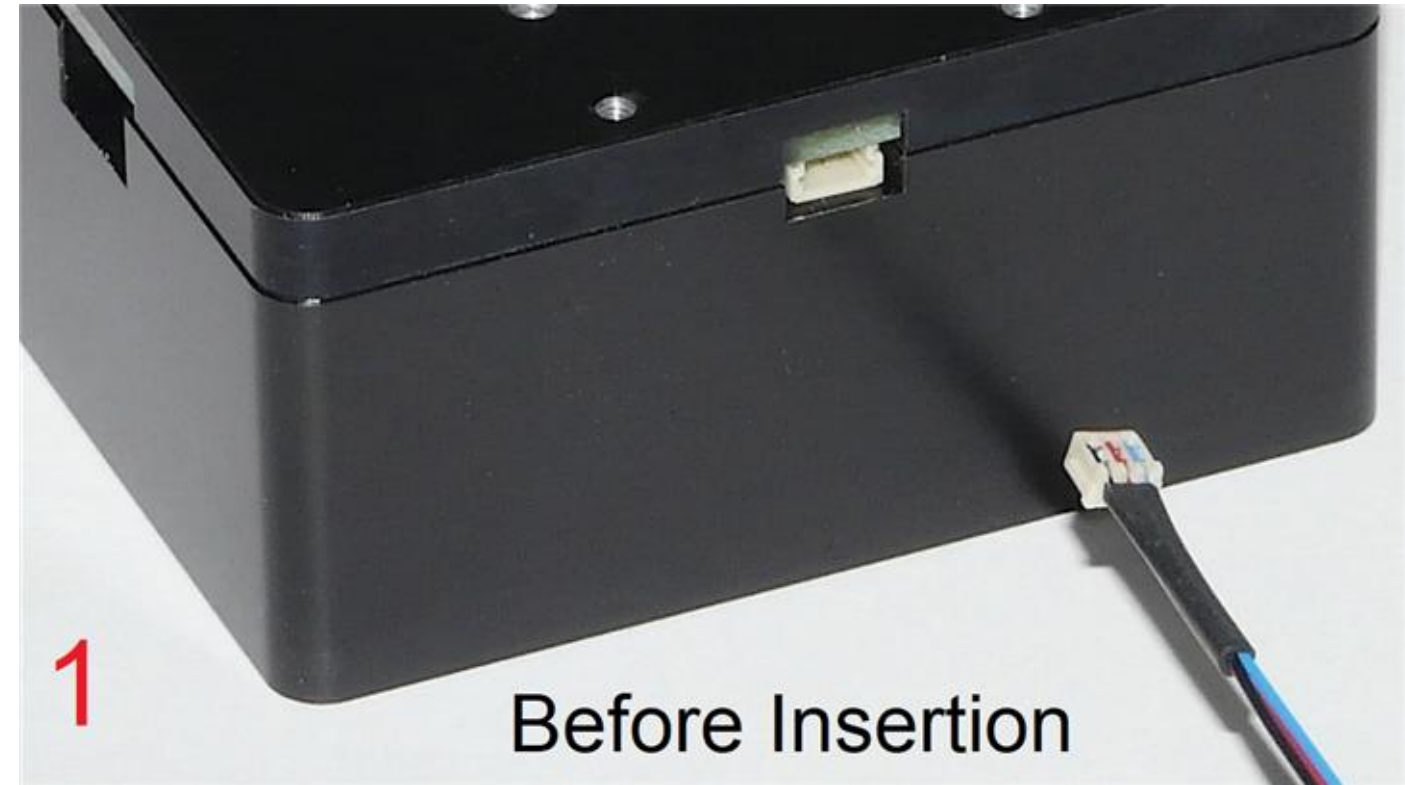
Connect the plug at the end of the Pot Cable Assembly to the mating socket of the illuminator, as shown in the pictures on this page. NOTE THAT THE PLUG IS KEYED TO ONLY GO INTO THE SOCKET ONE WAY, AS SHOWN.

Partially insert the plug into the mating socket of the illuminator by holding the wire next to the plug with your finger (photo 2).

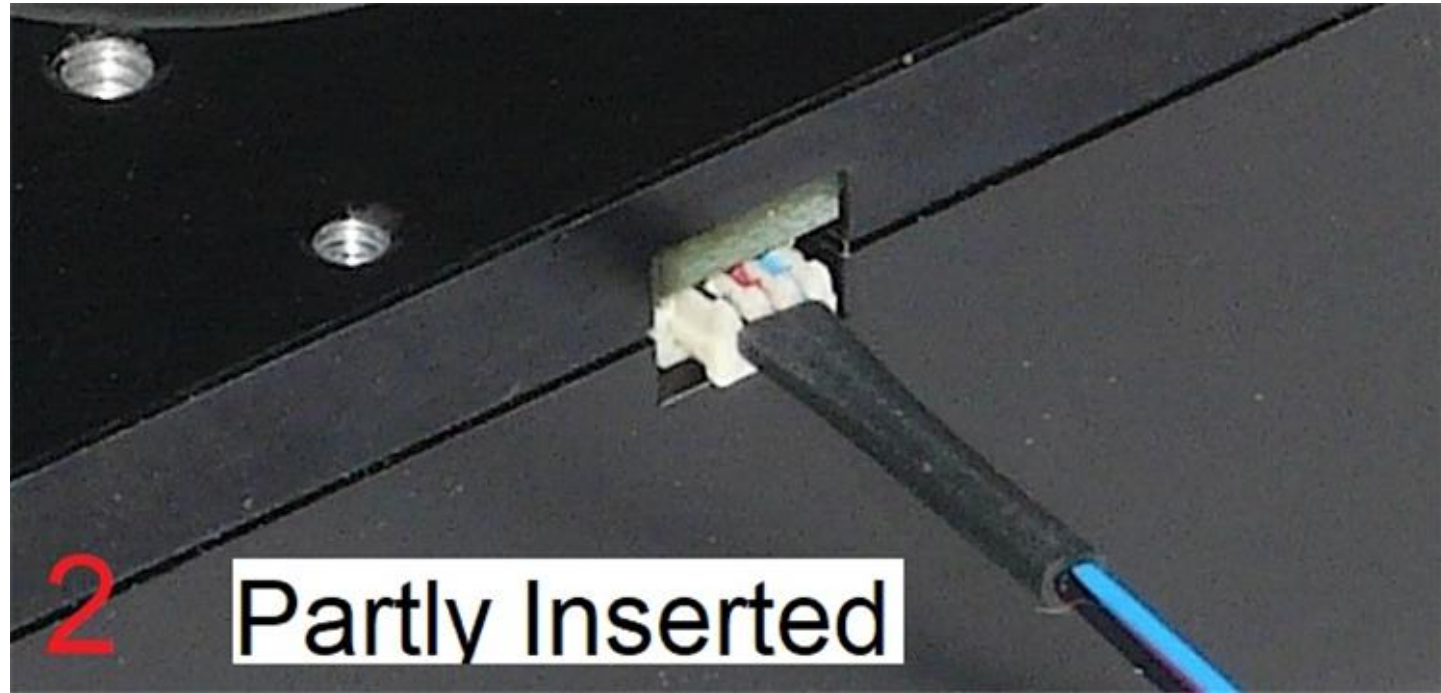
Use your fingernails, if you have them, or tools like a tiny screwdriver or tweezers pushing on the side of the plug to fully insert it (photo 3).

The socket cannot be fully engaged by pushing on the wires, as the wires would just collapse.

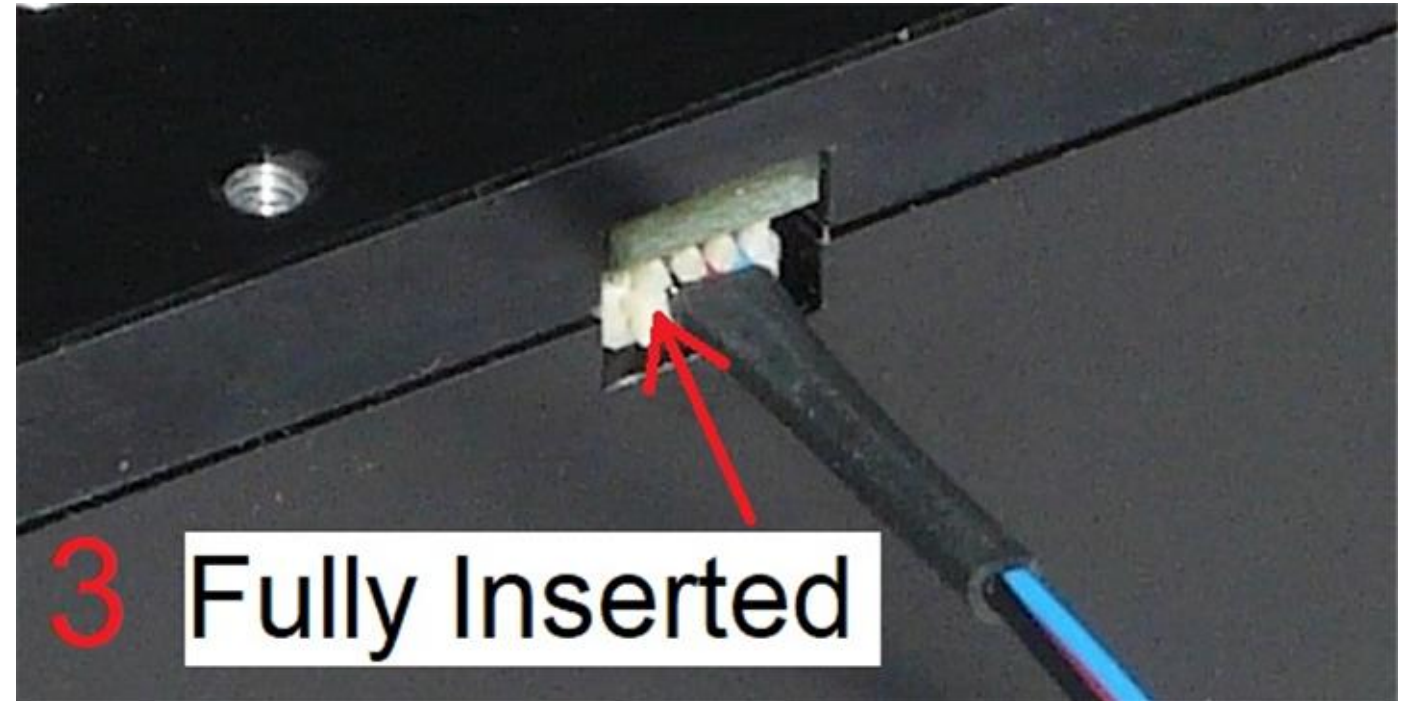
To disconnect it if needed, pull the wire straight out by firmly gripping the black heat shrink tubing.



Before Insertion



Partly Inserted



Fully Inserted