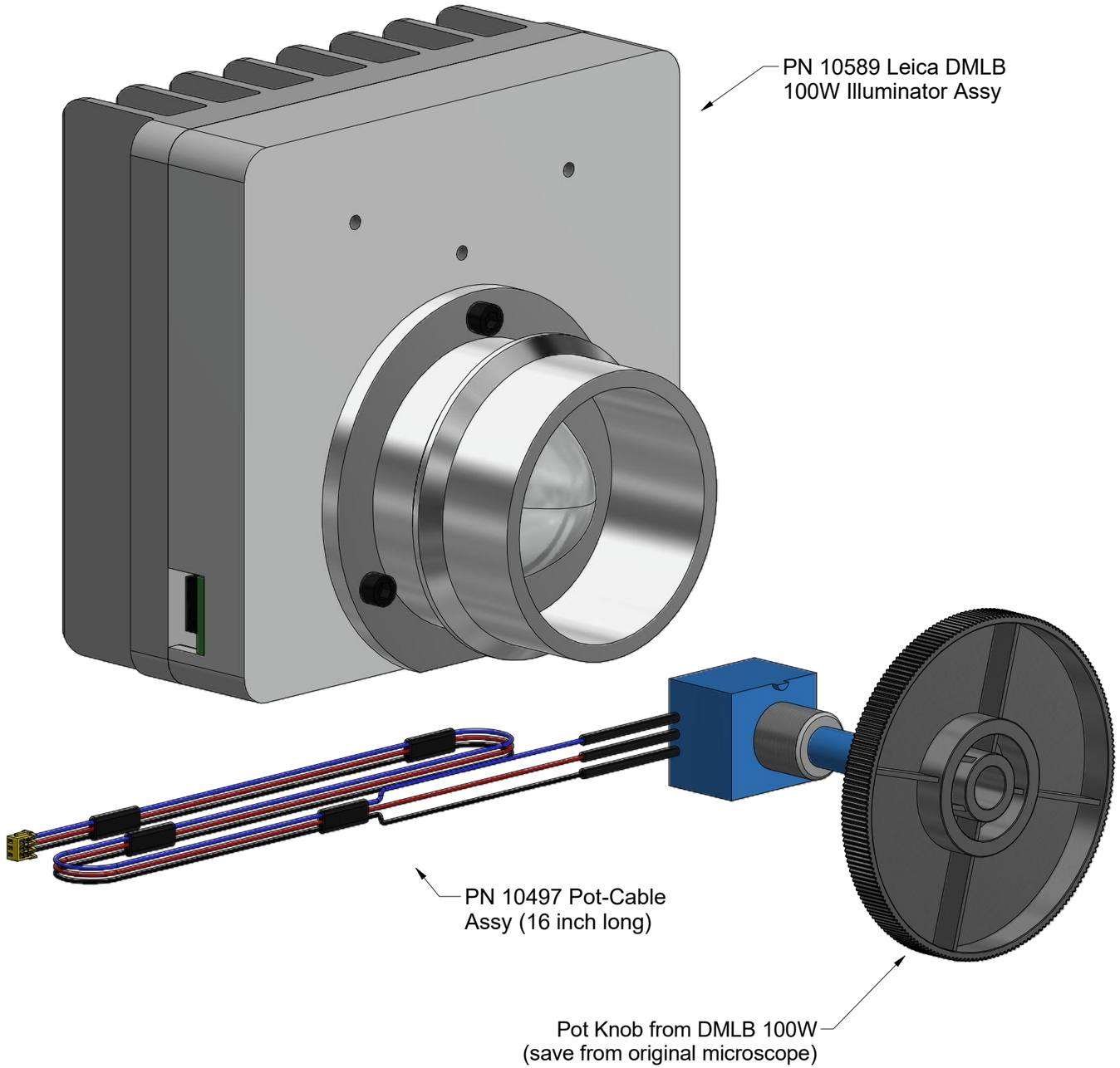
Nanodyne Replacement Illuminator for Leica DMLB 100W Microscope Installation Instructions - Included Items



Additional Items Included But Not Shown:

PN 10456 Hex Key 1.5mm (for pot knob)
PN 10747 3mm Hex Key for set screw holding lamp housing

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 10736 Rubber plug to block unused AC power receptacle.

Tape to secure wires.

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

Han-Seung Yang	11/25/2019	
PN 10746 Leica DMLB 100W Installation Instructions		REV 7
	SHEET 1 OF 7	

Nanodyne Replacement Illuminator for Leica DMLB 100W Microscope Installation Instructions - Step 1. Remove OEM Lamp Housing.

Photo 1a

Photo 1b

Loosen the set screw holding the original illuminator in place using the 3mm hex key provided. The lamp housing will become loose right away, but many turns of the set screw are required to remove it.

Han-Seung Yang	11/25/2019
PN 10746 Leica DMLB 100W Installation Instructions	REV 7
SHEET 2 OF 7	

Nanodyne Replacement Illuminator for Leica DMLB 100W Microscope Installation Instructions - Step 2. Disconnect or Remove Old Power Supply and Wiring.

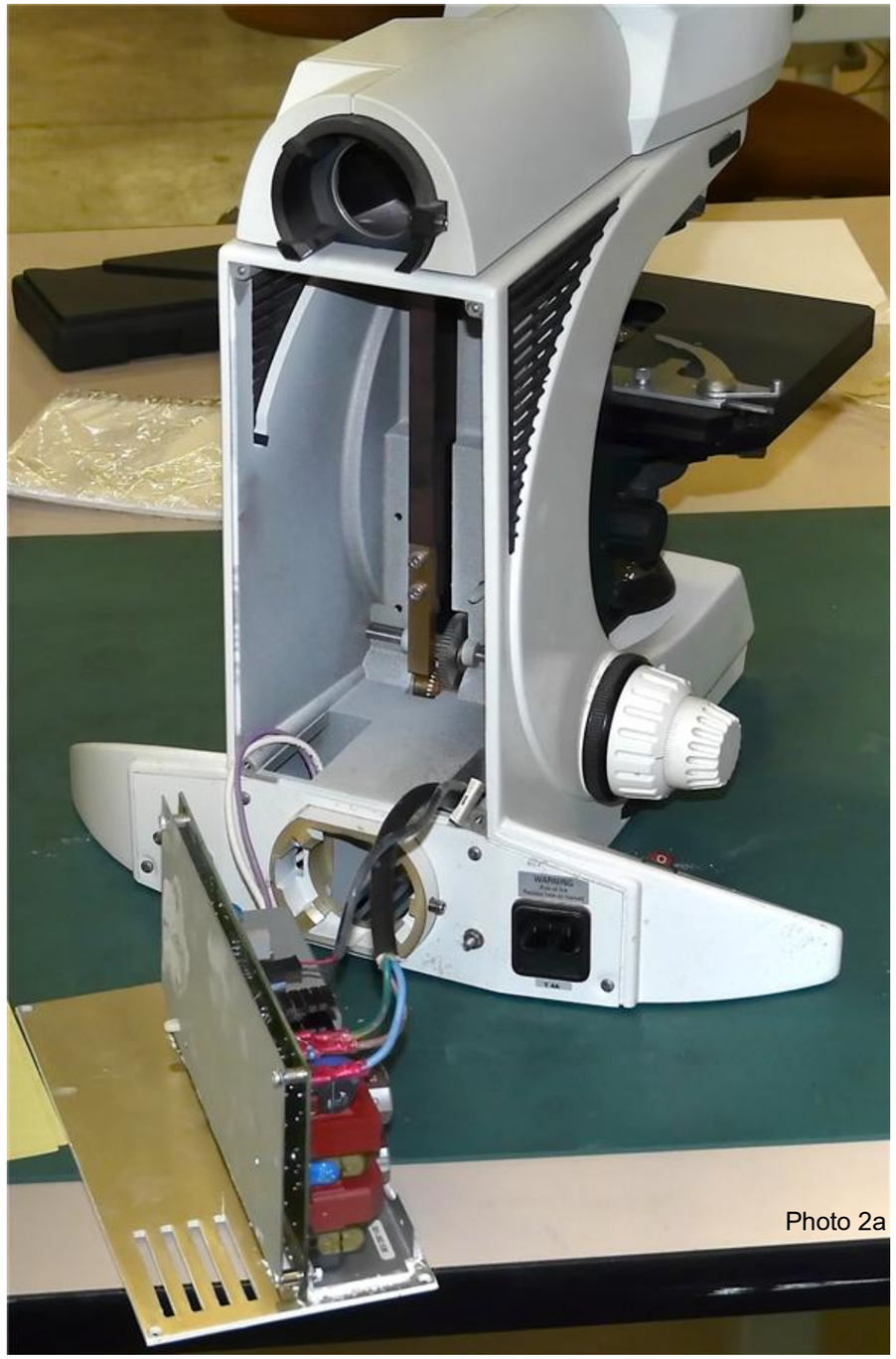


Photo 2a

Remove the four screws holding the back panel in place. Remove all of the electrical connections to the power supply by unplugging the cables.

The power supply may be left in place, or removed by unscrewing the two screws holding it to the back panel, and discarded.

Han-Seung Yang	11/25/2019
PN 10746 Leica DMLB 100W Installation Instructions	REV 7
SHEET 3 OF 7	

Nanodyne Replacement Illuminator for Leica DMLB 100W Microscope Installation Instructions - Step 3. Remove Bottom Cover and Disconnect AC Wiring.

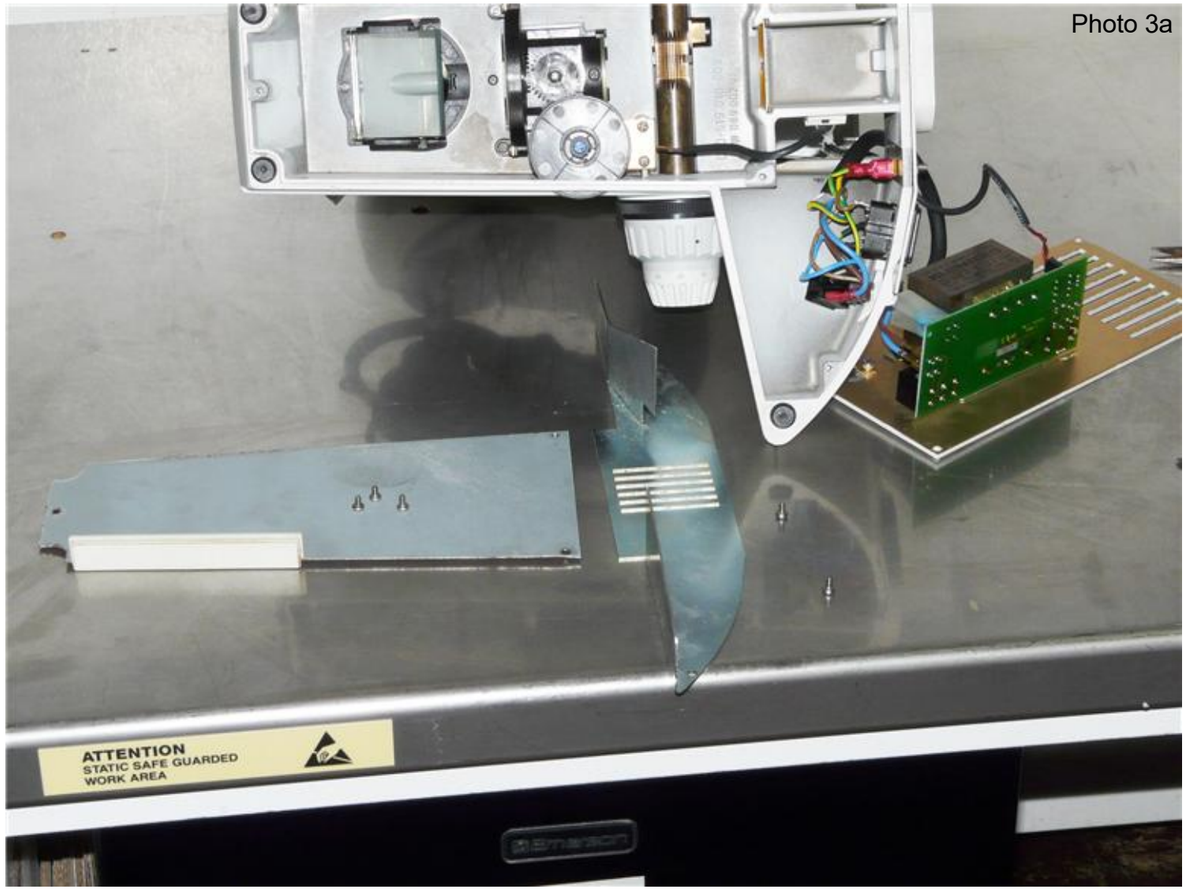


Photo 3a

Remove the screws holding the bottom covers in place.

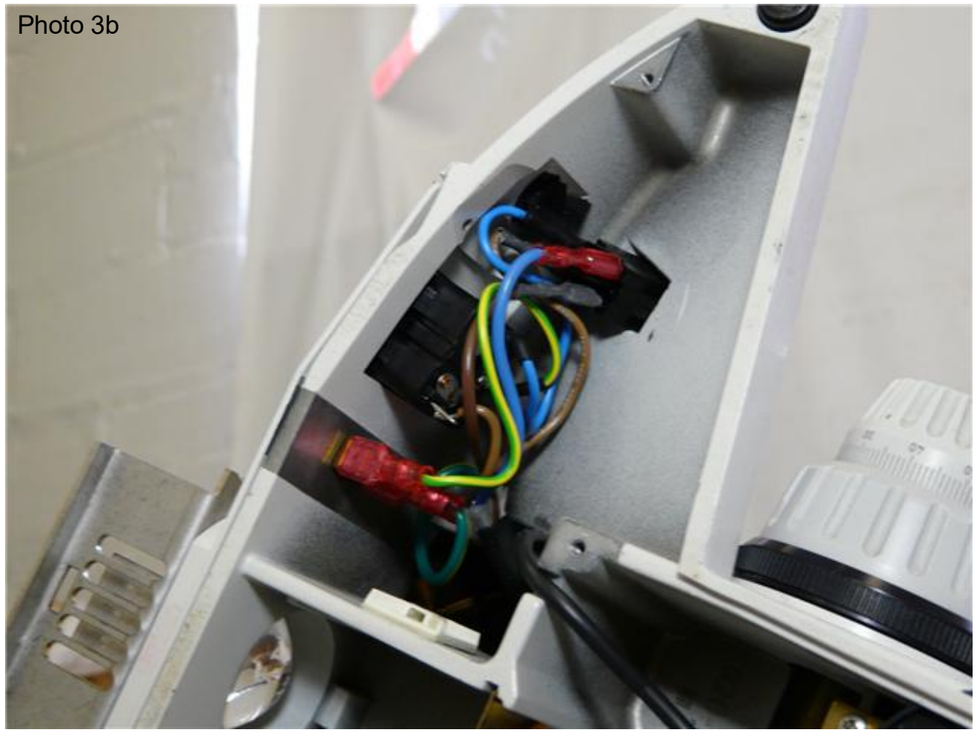


Photo 3b

Disconnect the AC input to prevent an electrical hazard in case obsolete AC power is ever plugged in again. The AC wiring can be completely removed, or cut and insulated by heat shrink or electrical tape.

Then install PN 10736 rubber plug in the AC receptacle as shown in the photos below.

NOTE - These photos are from a DMLB 30W microscope, but the relevent items are the same.

Han-Seung Yang	11/25/2019
PN 10746 Leica DMLB 100W Installation Instructions	REV 7
SHEET 4 OF 7	

Nanodyne Replacement Illuminator for Leica DMLB 100W Microscope Installation Instructions - Step 4. Remove OEM Pot and Replace with New Pot.

Photo 4a

Remove the two screws holding the potentiometer bracket, and remove the assembly. (photo 4a)

Using the 1.5mm hex key provided, loosen the set screw on the brightness adjustment dial and remove it. (photo 4b)

Remove the old pot from the bracket. Discard the old pot.

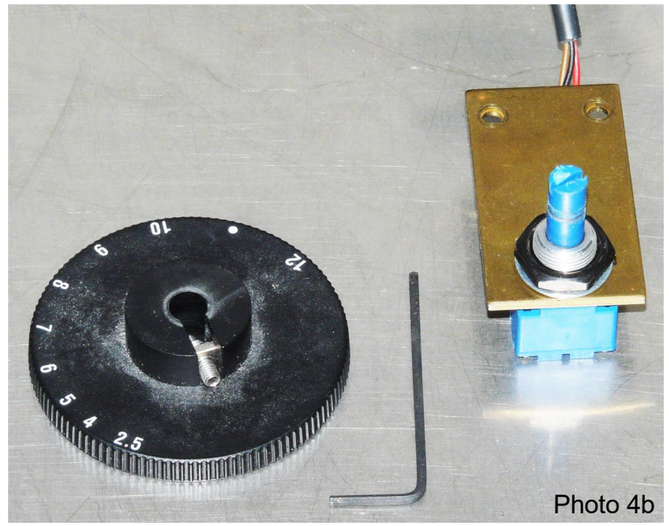


Photo 4b

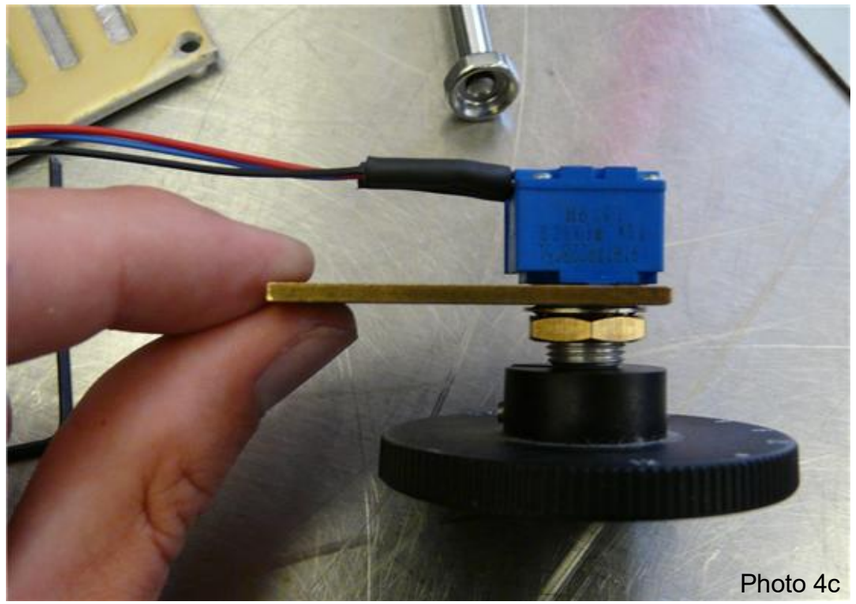


Photo 4c

Install the new pot on the bracket as shown in photo 4c. Align the control knob so the dial reads correctly with respect to the brightness setting. Tighten the set screw on the brightness control knob.

Han-Seung Yang	11/25/2019	
PN 10746 Leica DMLB 100W Installation Instructions		REV 7
	SHEET 5 OF	7

Nanodyne Replacement Illuminator for Leica DMLB 100W Microscope Installation Instructions - Step 5. Install New Pot, Route Pot Cable, Install Nanodyne Illuminator.

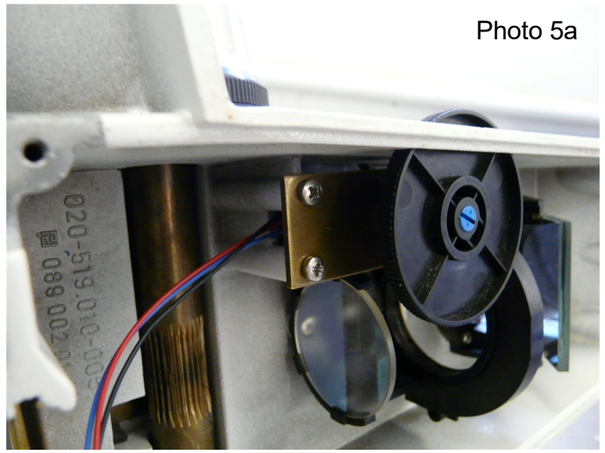


Photo 5a

Re-install the potentiometer bracket with the new Nanodyne potentiometer.

(Bottom view of microscope)

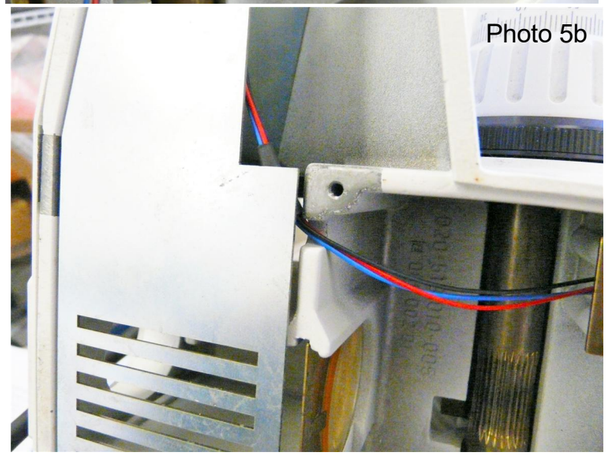


Photo 5b

Route the pot cable up through the narrow space as shown, into the large space in the back of the microscope (seen on the photo 5c)

(Bottom view of microscope)

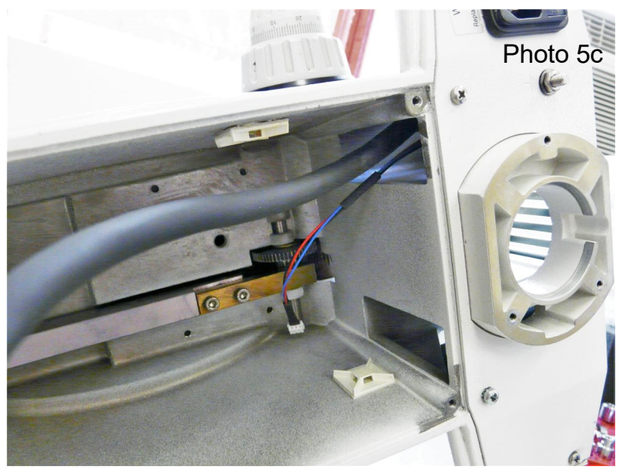


Photo 5c

There is more cable length than shown at left. Pull it out from the rectangular hole near the top of the picture and feed it into the rectangular hole near the bottom of the picture.

(Back view of microscope)

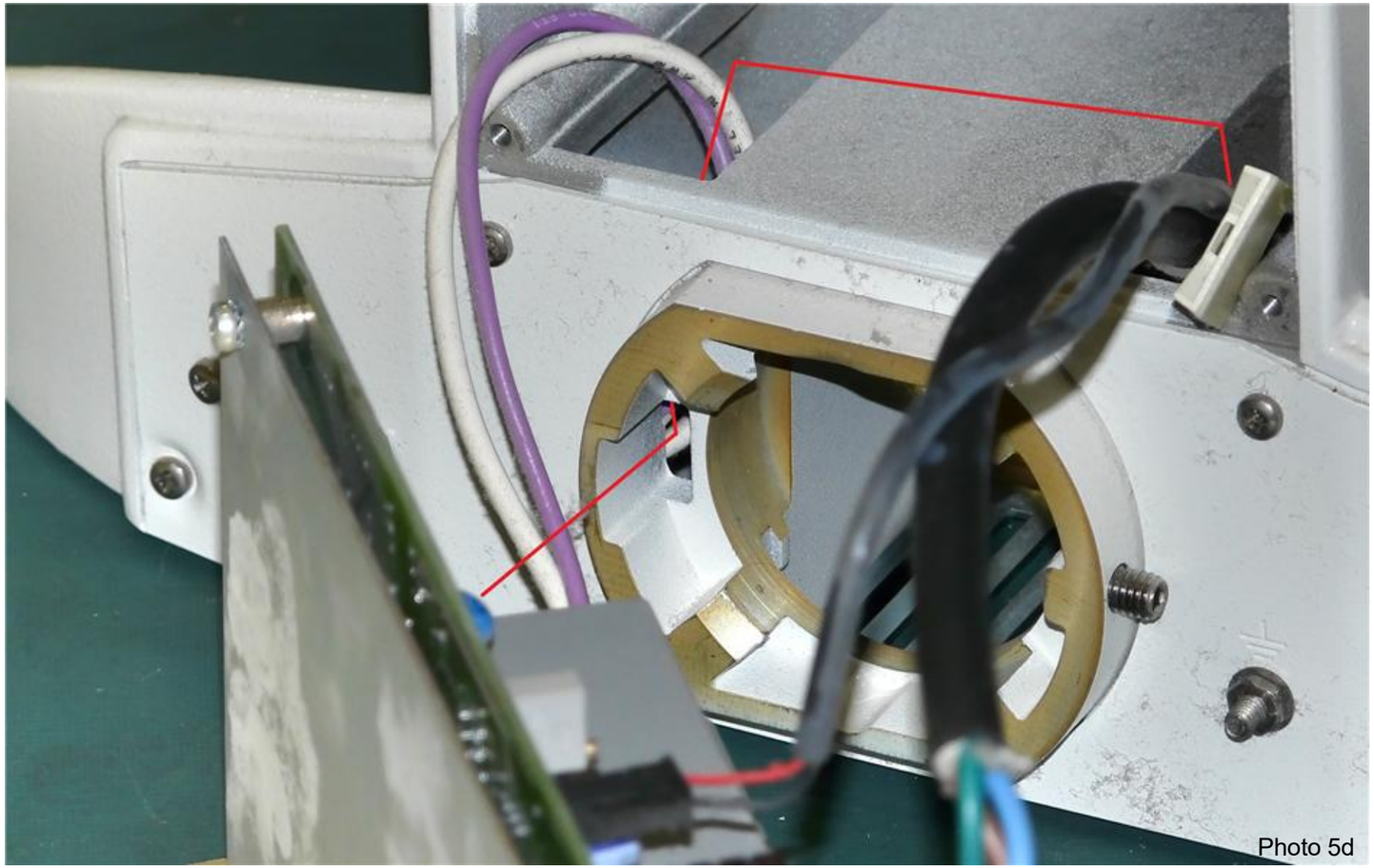


Photo 5d

Finish routing the pot cable by bringing the end out through the small hole on the left side ot the illuminator mounting port. (per red line added to above photo)

Insert the new Nanodyne illuminator into the port and secure with the set screw in a reversal of removing the original illuminator. Plug the end of the pot cable into the bottom of the illuminator. See Sheet 7 for detailed instructions.

Note that all of the wires shown in the photo 5d would be removed prior to this step. The photo was taken before the illuminator was finished, and the microscope was not available later.

NOTE - The photos 5a, 5b and 5c are of a DMLB 30W but this procedure is the same for both)

Re-install all of the covers. Plug the power supply into an AC outlet and connect the power cord. The illuminator is now ready to use.

Han-Seung Yang	11/25/2019	
PN 10746 Leica DMLB 100W Installation Instructions		REV 7
	SHEET 6 OF 7	

Nanodyne Replacement Illuminator for Leica DMLB 100W Microscope Installation Instructions - Step 6. Pot Cable Connection Detail.

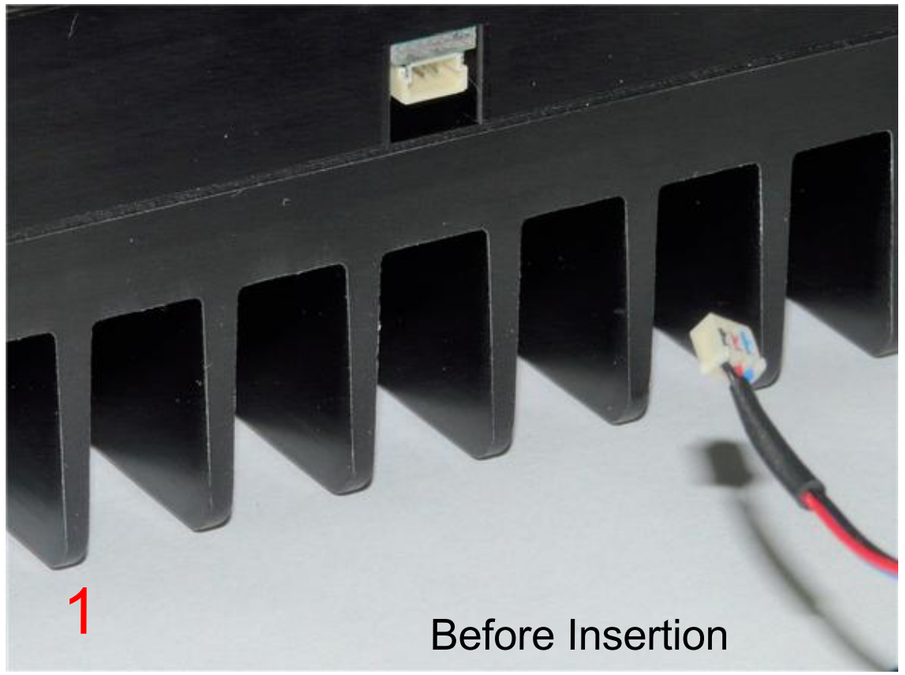
Connect the plug at the end of the Pot Cable Assembly to the mating socket of the illuminator, as shown in the pictures on this page. NOTE THAT THE PLUG IS KEYED TO ONLY GO INTO THE SOCKET ONE WAY, AS SHOWN.

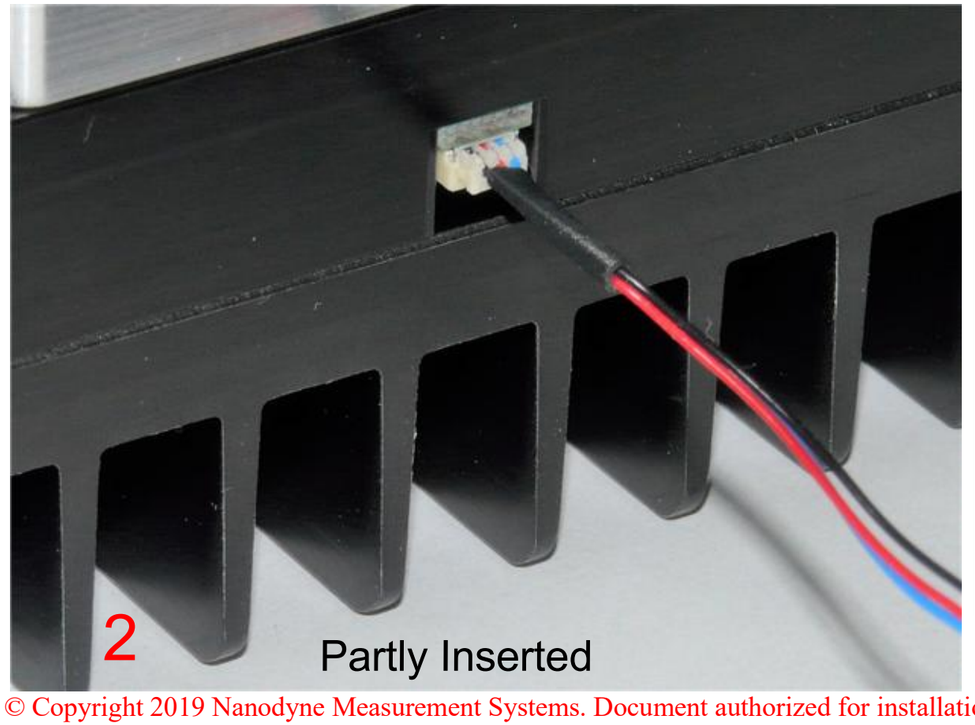
Partially insert the plug into the mating socket of the illuminator by holding the wire next to the plug with your finger (photo 2).

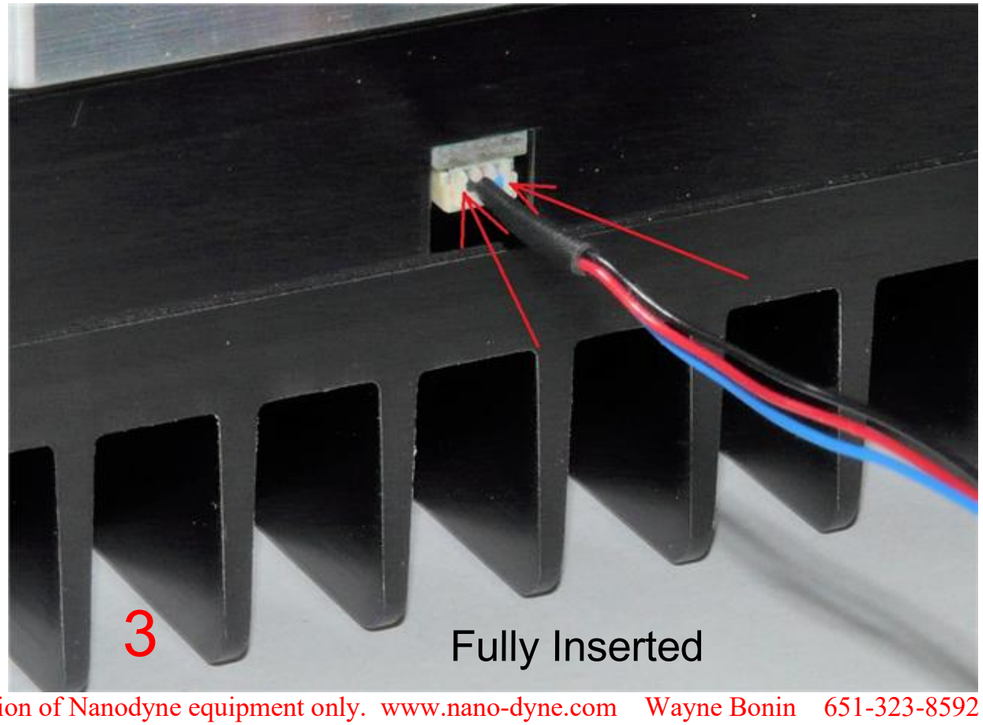
Use your fingernails, if you have them, or tools like a tiny screwdriver or tweezers pushing on the side of the plug to fully insert it (photo 3).

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.







Han-Seung Yang	11/25/2019
PN 10746 Leica DMLB 100W Installation Instructions	REV 7
SHEET 7 OF	7