

Δ

2

В

 \leftarrow

А

Jes III	Wayne Bonin	9/6/2019	
	PN 11288 Nikon Ci Illuminator System Installation Instructions		REV 2
592	Sł	HEET 1 OF	8

1

4

Nanodyne Replacement Illuminator for Nikon Ci Microscope Installation Instructions: Step 1 - Remove Covers and Old Illuminator.

Be sure the AC power is disconnected.

(1) Remove the 10 screws holding the bottom cover.

Use the 2mm hex key (included, but not as shown) on the two black screws.

В

Use the 1.5mm hex key on the two screws just to the right of the black ones.

Use a phillips screwdriver (not included) on the rest.





(2) Remove the bottom cover.

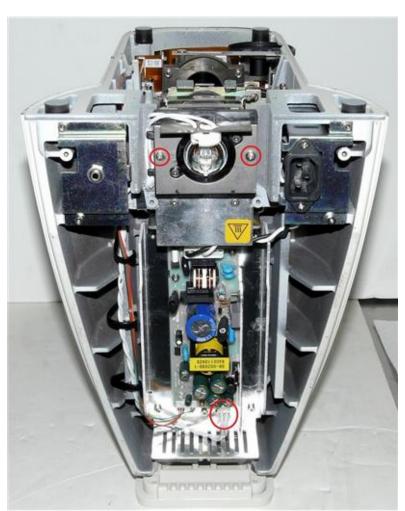


В

Α



(4) Remove the back cover (6 screws).



 \triangle

(5) Remove the lamp assembly (2 screws circles at left).

Note warning at right

Disconnect lamp cable by unplugging it from the power supply (lower circle). There is a locking tab built into the plug that needs to be depressed while pulling it out.

2

© Copyright 2019 Nanodyne Measurement Systems. Document authorized for installation of Nanodyne equipment only. www.nano-dyne.com Wayne Bonin 651-323-8592 3

(3) Remove the filter (red circle) so it does not fall out if you turn the scope over.



On our microscope the two screws holding the lamp assembly were different. These same screws are used to attach the Nanodyne adapter. If your screws are different as shown above, each one must go back in the same hole it came out of.

> Wayne Bonin 9/6/2019 PN 11288 Nikon Ci Illuminator REV System Installation Instructions 2 SHEET 2 OF 8

4

Nanodyne Replacement Illuminator for Nikon Ci Microscope Installation Instructions: Step 2 - Remove Old Control Cables and Pot Knob.

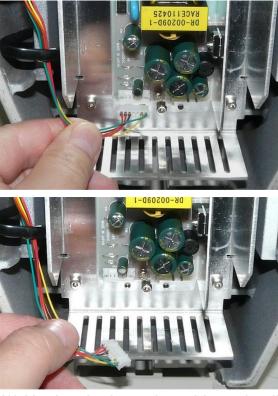


В

 \rightarrow

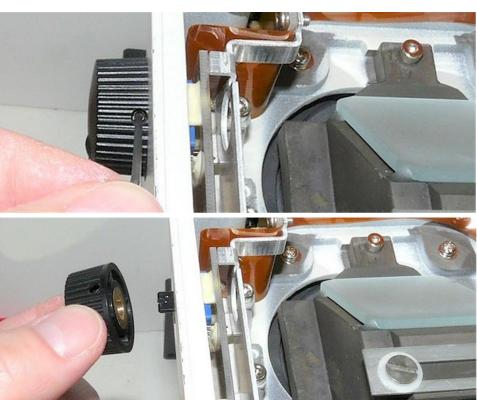
А

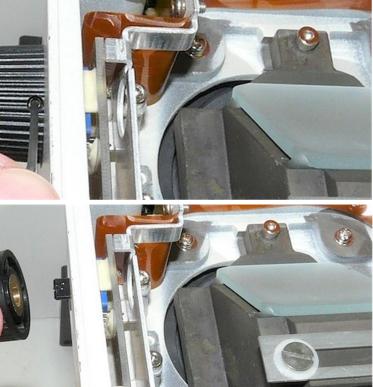
(1) Original illuminator removed.





Δ





(3) Loosen the set screw on the pot knob. Remove and save it.

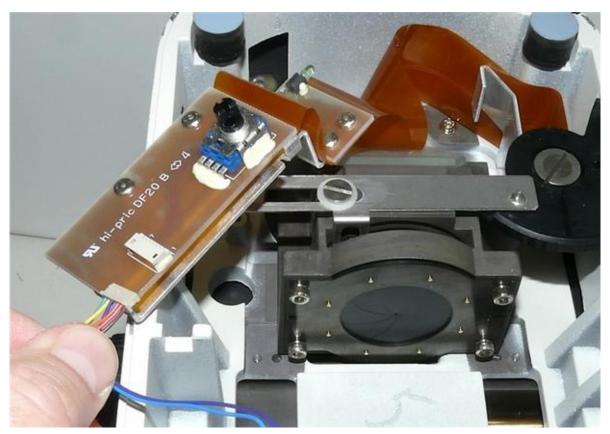


(2) Unplug the intensity cable and pull it out of the microscope as shown.

Placing a small but powerful magnet near the tip of the hex key wrench to hold the screws in place will elliminate much frustration in getting the screws in and out where there is no room for fingers.



(4) Remove the mounting screws for the pot plate PCB.



© Copyright 2019 Nanodyne Measurement Systems. Document authorized for installation of Nanodyne equipment only. www.nano-dyne.com Wayne Bonin 651-323-8592

2

(5) Pull the intensity adjust pot PCB assembly out of the microscope as shown at left.

Unplug the cable from the connector on the intensity adjust PCB.

The intensity control assembly is still connected by the ribbon cable to the capture switch.

Wayne Bonin 9/6/2019 PN 11288 Nikon Ci Illuminator REV

В

4

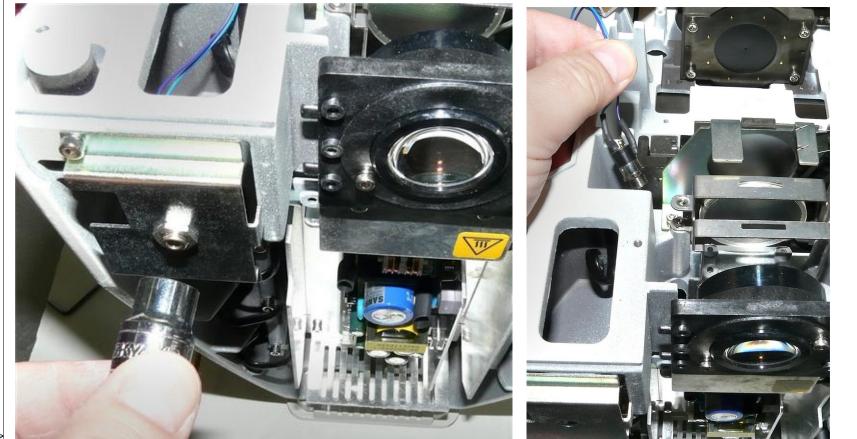
А

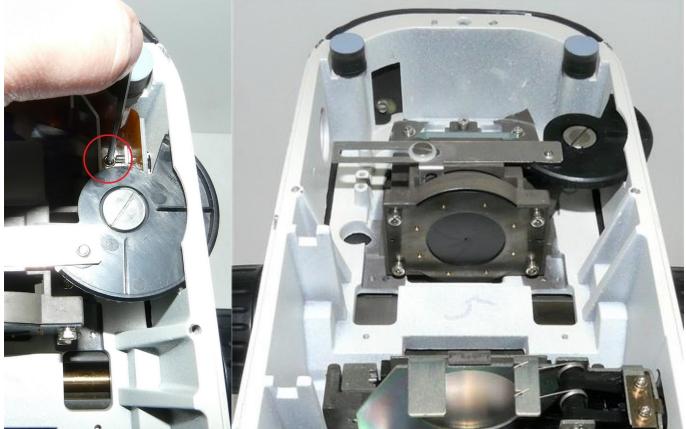
2

SHEET 3 OF 8

System Installation Instructions

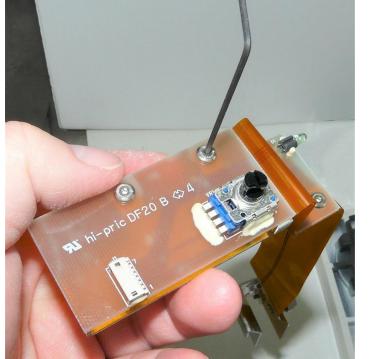
Nanodyne Replacement Illuminator for Nikon Ci Microscope Installation Instructions: Step 3 - Remove Ribbon Cable and Capture Switch, Install New Pot.





(1) Remove the nut on the DSC jack with a 10mm hex socket. Pull the jack out of the microscope by the blue and purple wires. It is not used with the new illuminator.

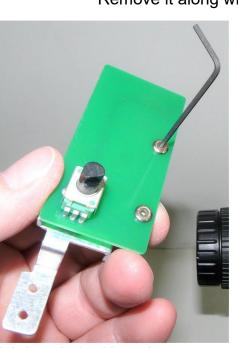
(2) Unscrew the bracket holding the capture switch. (two screws - use 2.5mm hex key) Remove it along with the ribbon cable and pot board assy.





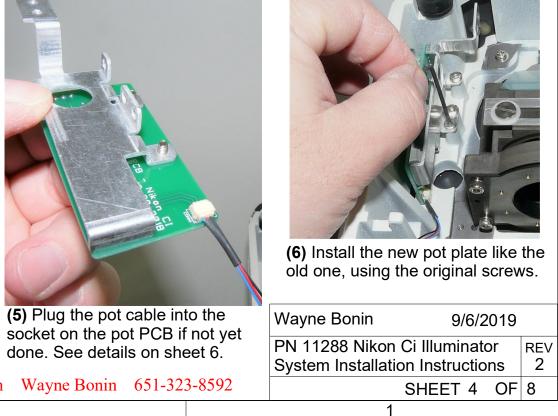
(3) Remove the screws as shown at far left to recover the bracket shown at left.

The bracket and screws will be used later to install the Nanodyne intensity adjust pot.



(4) Attach the Nanodyne pot PCB to the bracket.

 \triangle



© Copyright 2019 Nanodyne Measurement Systems. Document authorized for installation of Nanodyne equipment only. www.nano-dyne.com Wayne Bonin 651-323-8592

2

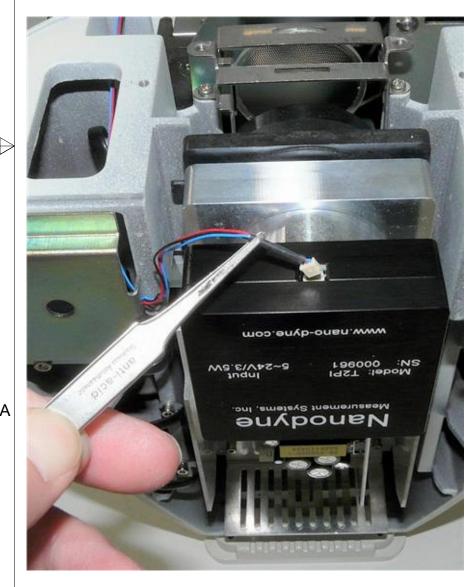
В

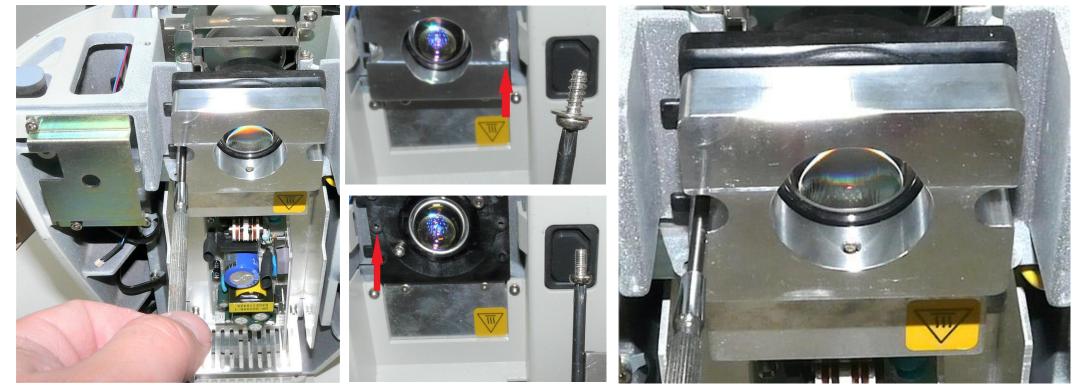
В

Nanodyne Replacement Illuminator for Nikon Ci Microscope Installation Instructions: Step 4 - Finish Removal of Old Parts, Install Nanodyne Illuminator.



(1) If desired, the capture switch may be re-installed by removing it from the rest of the asembly as shown above and attaching it to the microscope with the original 2 screws. (If replaced it will only serve to fill the otherwise empty hole)





(2) Attach the Nanodyne adapter using the original screws. As also shown on sheet 2, be sure they go back in the same hole if they are different.

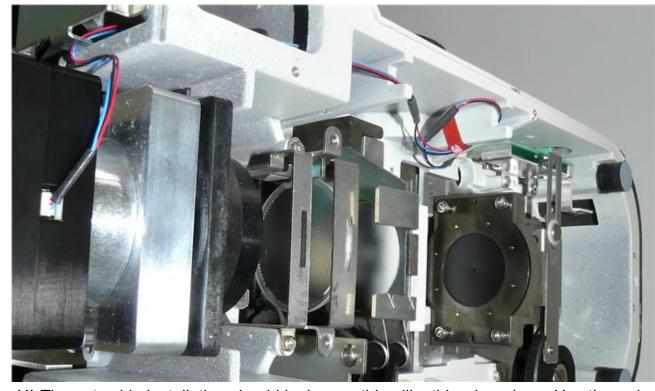
 \triangle

(3) (left photo)

Install the illuminator. It is secured by tightening the set screw in the adapter.

Connect the pot cable to the illuminator.

See sheet 6 for detailed instructions



(4) The pot cable installation should look something like this when done. Use the red tape to secure any extra length inside the microscope.

© Copyright 2019 Nanodyne Measurement Systems. Document authorized for installation of Nanodyne equipment only. www.nano-dyne.com Wayne Bonin 651-323-8592

2

(close up of adapter installation)



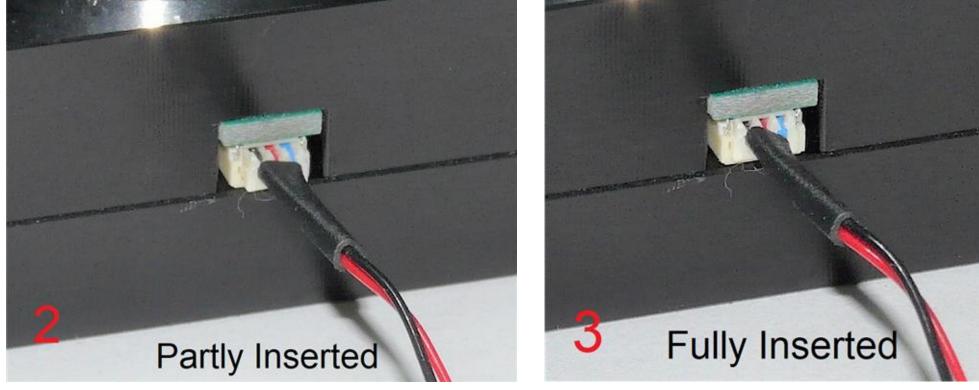
В

Α

(5) Install the intensity adjustment knob.

Wayne Bonin	9/6/2019	
PN 11288 Nikon Ci Illuminator System Installation Instructions		
S	HEET 5 OF	8

	4	3	\downarrow	2
}	Connect the plug at the illuminator, as shown KEYED TO ONLY GO Partially insert the plug next to the plug with y Use your fingernails, pushing on the side of The socket cannot be just collapse. To disconnect it if new	The end of the Pot Cable Assembly to the mating in the pictures on this page. NOTE THAT THE D INTO THE SOCKET ONE WAY, AS SHOWN or finger (photo 2). if you have them, or tools like a tiny screwdrive f the plug to fully insert it (photo 3). e fully engaged by pushing on the wires, as the eded, pull the wire straight out by firmly gripping	g socket of the E PLUG IS N. olding the wire er or tweezers wires would	Connection Details.
>	heat shrink tubing.			1 Before



© Copyright 2019 Nanodyne Measurement Systems. Document authorized for installation of Nanodyne equipment only. www.nano-dyne.com Wayne Bonin 651-323-8592

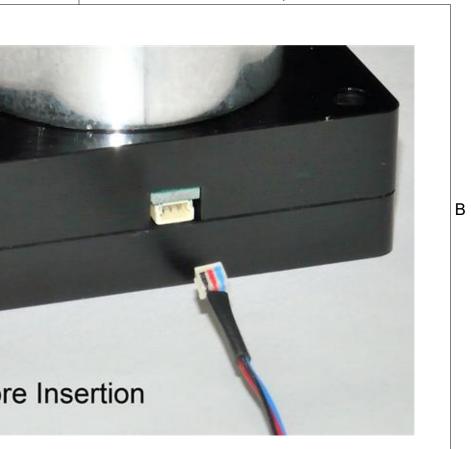
3

В

 \rightarrow

А

2



Wayne Bonin 9/6/2019		
PN 11288 Nikon Ci Illuminator System Installation Instructions		
S	HEET 6 OF 8	

4

Α

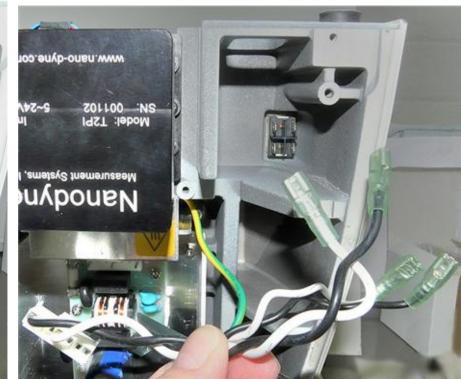


Nanodyne Replacement Illuminator for Nikon Ci Microscope Installation Instructions: Step 5 - Remove Obsolete AC Power Wiring and Switch.

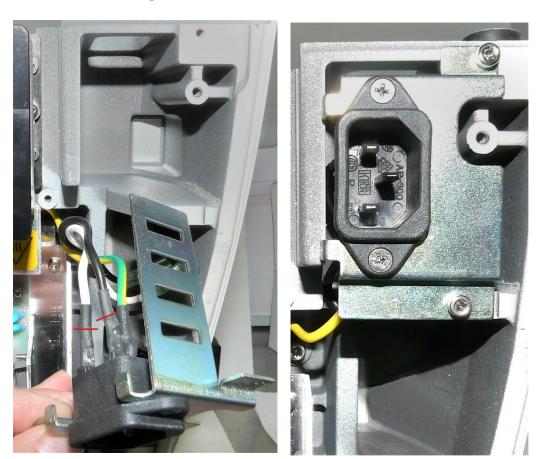


4

(1) Unscrew the obsolete AC power bracket and pull it away from the microscope.



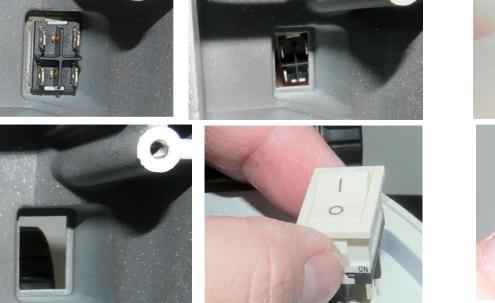
(2) Unplug the 4 wires at the power switch and the connector at the power supply. Cut the 2 wires (1 black, 1 white) at the back of the AC power receptacle.



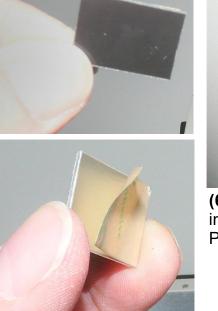
В

(3) Cut the white and black AC power leads at the red lines in the above photo and discard the AC wires. Replace the AC power receptacle.





(4) Remove the power switch. Use tweezers or a small screw driver to compress the plastic retainers holding it in place while pushing it out.



(5) Remove the release film from PN 10748 blank-off plate.

(6) Install the blank-off plate in place of the power switch. Press firmly in place.

© Copyright 2019 Nanodyne Measurement Systems. Document authorized for installation of Nanodyne equipment only. www.nano-dyne.com Wayne Bonin 651-323-8592

 \rightarrow

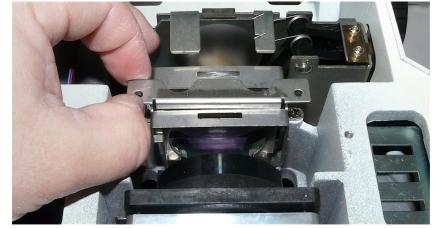
2

3 Nanodyne Replacement Illuminator for Nikon Ci Microscope Installation Instructions: Step 6 - Replace Covers and Connect New Power Supply.



4

(1) Replace the back cover.



(2) Replace the filter. Be sure the screw holes are aligned.



(3) Replace the bottom cover and tighten the black screws for holding the filter. (use a 2mm hex key)



(4) Install the rest of the screws. The two just under the black filter holder need a 1.5mm hex key. The other 6 need a phillips screwdriver.



(5) Install the silicone rubber AC blocking plug provided.

Δ



© Copyright 2019 Nanodyne Measurement Systems. Document authorized for installation of Nanodyne equipment only. www.nano-dyne.com Wayne Bonin 651-323-8592

2



Wayne Bonin 9/6/2019 PN 11288 Nikon Ci Illuminator REV 2 System Installation Instructions SHEET 8 OF 8

В

(+

А

1