

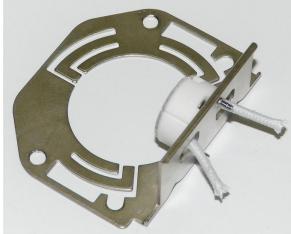
Nanodyne Replacement Illuminator for Nikon TS100 Microscope Installation Instructions: Step 1. Remove Illuminator/Stage Assy and Old Lamp Parts



(1) Remove the lamp assembly and stage from the microscope (three screws hold it in place).

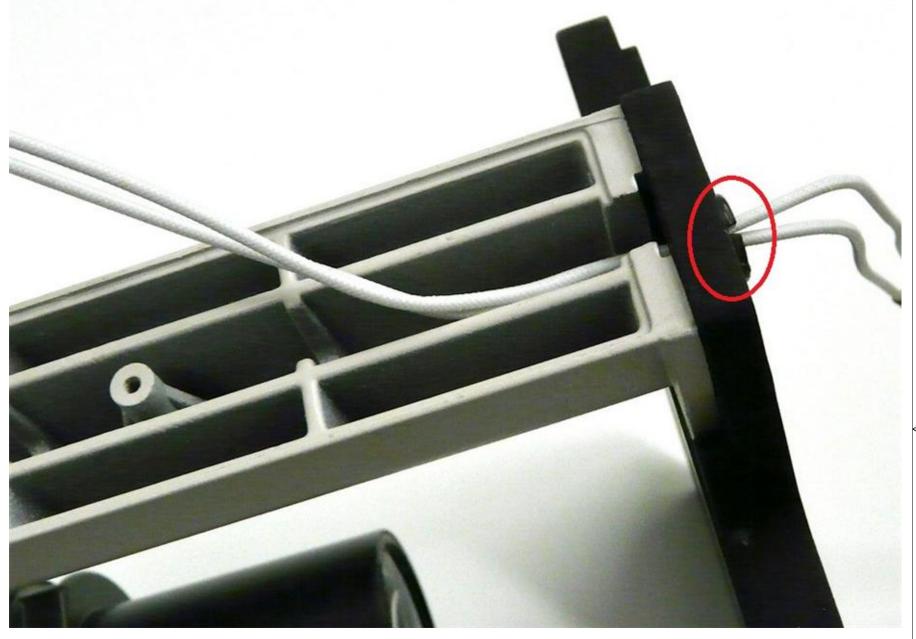


(2) Remove the black plastic housing by pressing firmly on two sides and lifting.



(3) Remove the lamp holder assembly (three screws hold it in place).

This part will not be used.



(4) Remove the cover from the neck between the lamp housing and stage.

Remove the black plastic wire retainer (circled above) and the wires. Don't worry about damaging the retainer, it will not be used.

Wayne Bonin 3/11/2019
PN 10976 Nikon Eclipse TS100 REV
Installation Instructions 4

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

1

SHEET 2 OF 8

Nanodyne Replacement Illuminator for Nikon TS100 Microscope Installation Instructions: Step 2. Remove Pot Knob and Bottom Cover



(1) Remove the rubber cover from the intensity control knob to access the setscrew. This will take some force.



(2) Remove the metal knob by loosening the setscrew using the hex key provided.



(3) Remove the 6 screws circled above to remove the bottom cover.

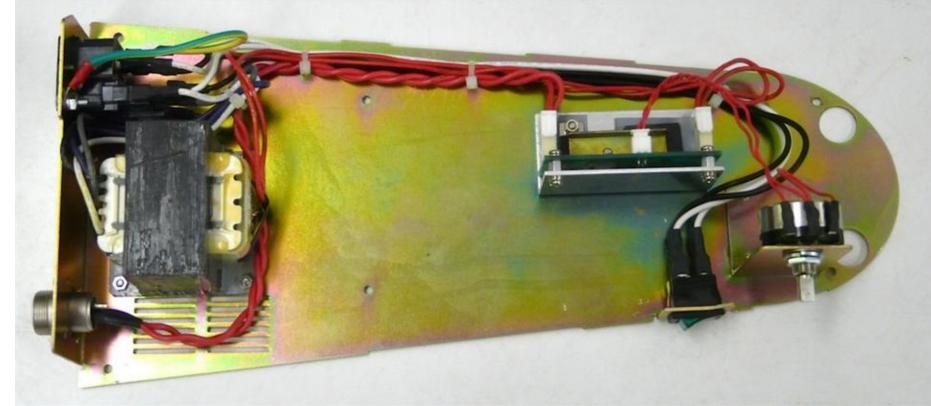
Be aware that the potentiometer shaft needs to be manuvered through the hole in the side of the base while removing the bottom cover.

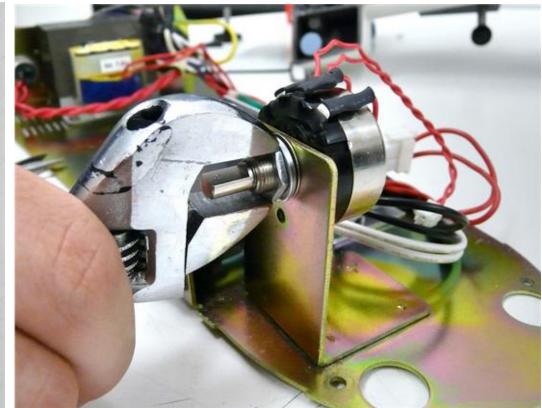
Wayne Bonin	3/1	1/20	19
PN 10976 Nikon Eclipse TS100 Installation Instructions		REV 4	
SHE	EET 3	OF	8

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

riangle

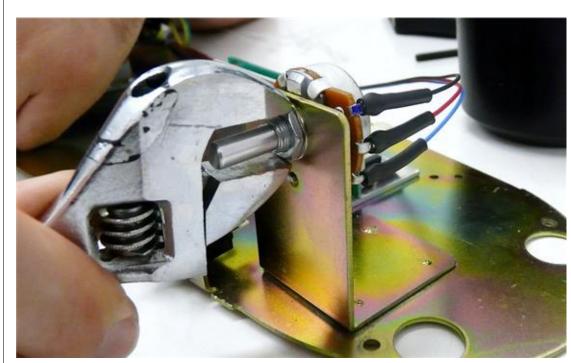
Nanodyne Replacement Illuminator for Nikon TS100 Microscope Installation Instructions: Step 3. Replace OEM Pot, Remove Old Wires



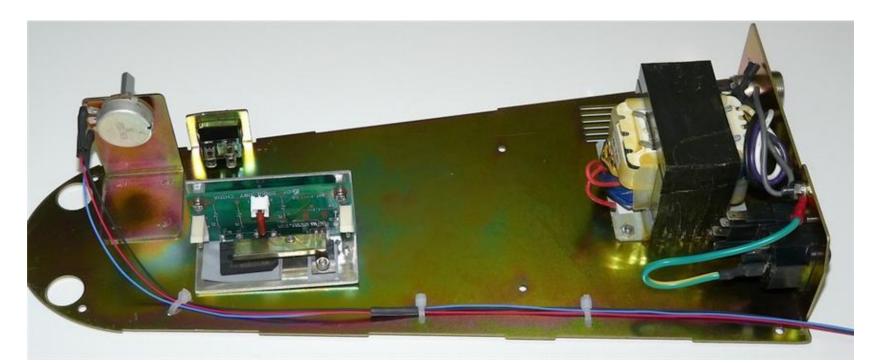


(1) Bottom cover removed - inside view.

(2) Remove OEM Pot.



(3) Install Nanodyne pot.



(4) Remove old wiring and route new pot cable, securing it as shown with 3 tie wraps. Remove all connections to the AC power. Leave the green ground wire in place.

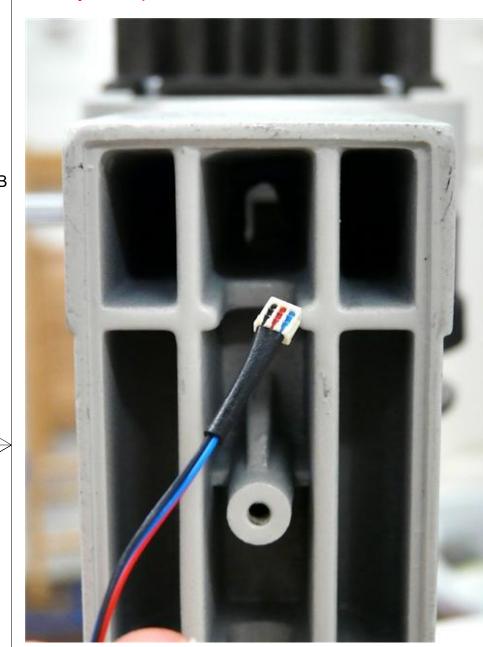
Wayne Bonin	3/11/201	19
PN 10976 Nikon Eclipse TS100 Installation Instructions		REV 4
	SHEET 4 OF	8

В

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

4 2

Nanodyne Replacement Illuminator for Nikon TS100 Microscope Installation Instructions: Step 4. Route Pot Cable, Connect Adapter and Install Illuminator



(1) Feed the pot cable end with the small connector through the back of the neck....

NOTE - Photos 3,4 and 5 were taken after the microscope was returned.

The adapter is installed over the microscope lens assembly shown in (2).



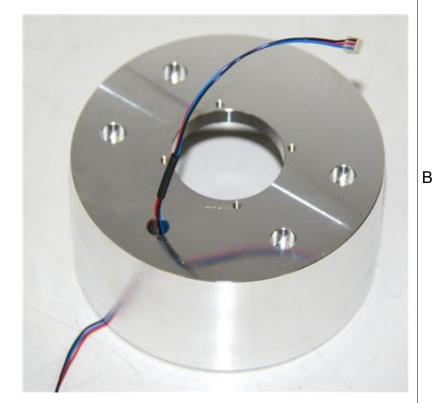
(2) ... and up and out at the lens assembly.



(4) Connect the pot cable to the illuminator. See sheet 6 for detailed instructions.



(5) Connect the illuminator to the adapter with the four 2-56 screws. Pull any excess cable back into the microscope neck.



(3) Place the adapter over the lens assembly (shown in (2)), with the pot cable going through the hole as shown above. Fasten the adapter in place with the M3 screws.

Wayne Bonin 3/11/2019
PN 10976 Nikon Eclipse TS100 REV Installation Instructions 4

SHEET 5 OF 8

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

2

Nanodyne Replacement Illuminator for Nikon TS100 Microscope Installation Instructions: Pot Cable Connection Details

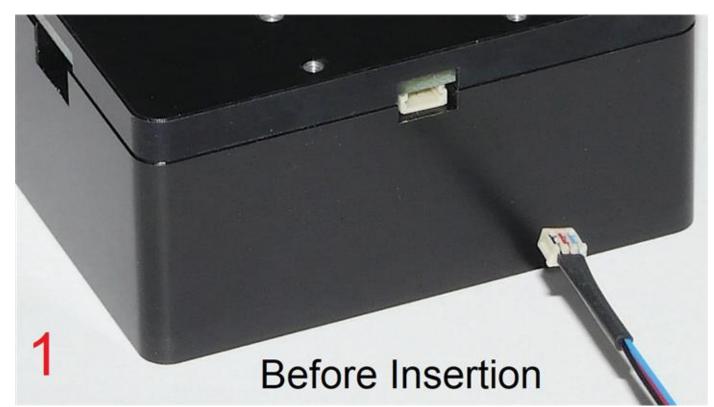
Connect the plug at the end of the Pot Cable Assembly to the mating socket of the illuminator, as shown in the pictures on this page. NOTE THAT THE PLUG IS KEYED TO ONLY GO INTO THE SOCKET ONE WAY, AS SHOWN.

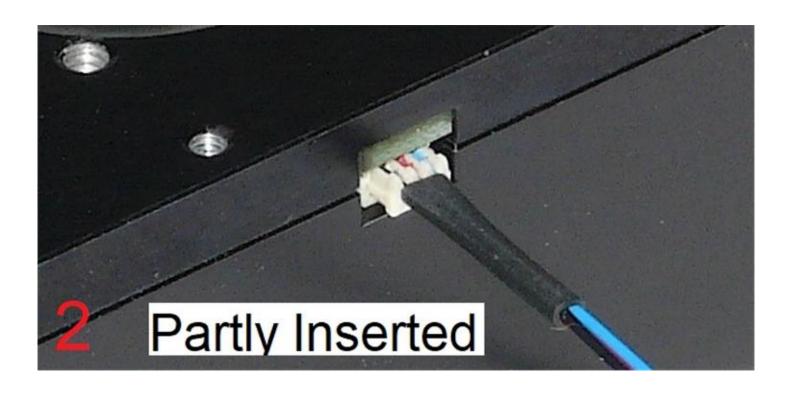
Partially insert the plug into the mating socket of the illuminator by holding the wire next to the plug with your finger (photo 2).

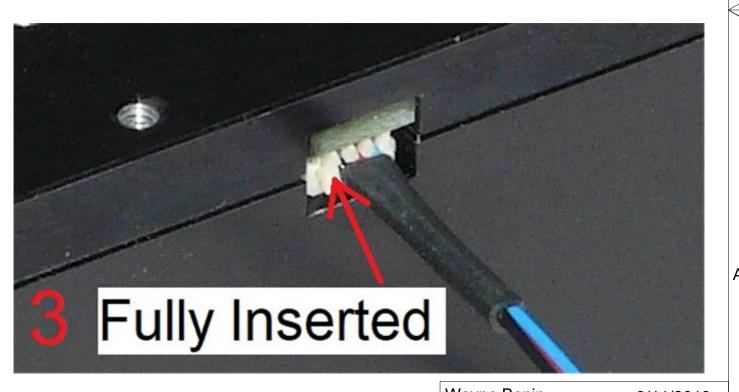
Use your fingernails, if you have them, or tools like a tiny screwdriver or tweezers pushing on the side of the plug to fully insert it (photo 3).

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.







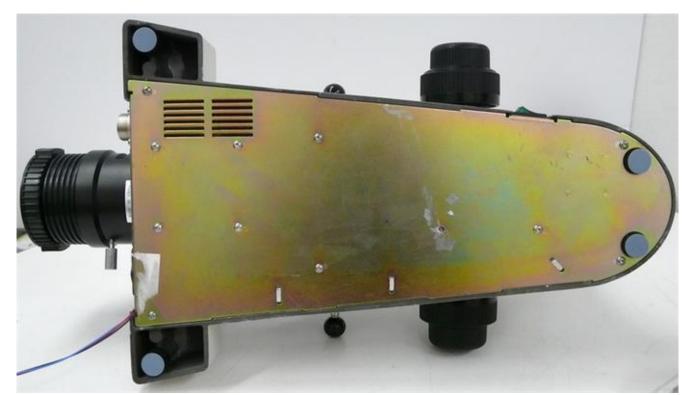
Wayne Bonin 3/11	/20	19
PN 10976 Nikon Eclipse TS100 Installation Instructions		REV 4
SHEET 6	OF	8

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

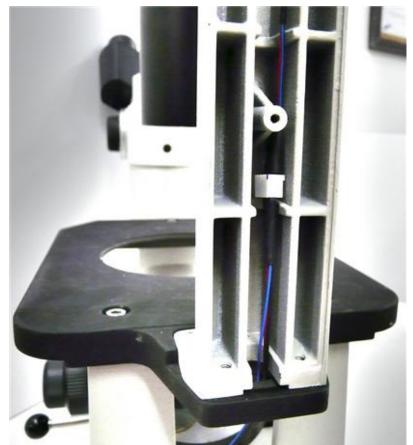
1 3 A 2

В

Nanodyne Replacement Illuminator for Nikon TS100 Microscope Installation Instructions: Step 5. Complete Routing of Pot Cables



(1) Replace the bottom cover. Route the potentiometer cable through the slot in the cover as shown above.



(2) Re-attach the stage/neck/illuminator assembly to the microscope, and route the potentiometer cable up the back side of the scope and insert the loose end into the hole where the wire retainer used to be.

Use the VHB tape provided to secure the pot cable to the back of the microscope.

Connect the two pot cables as shown at left.



(3) Replace the cover on the neck as shown above.

Wayne Bonin 3/1		1/20	1/2019	
PN 10976 Nikon Eclipse TS100 Installation Instructions			REV 4	
SHEE	т 7	OF	8	

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

Nanodyne Replacement Illuminator for Nikon TS100 Microscope Installation Instructions: Step 6. Replace Pot Knob, Install AC Power Blocking Plug.



(1) Replace the potentiometer knob and secure it with the hex key provided.

Replace the rubber covering, making sure to align the protrusion on the inside of the cover with the hole in the metal knob.



(2) Install PN 10736 rubber blocking plug in the receptacle on the back of the microscope as shown above (photo from generic microscope).

(3) Connect the USB end of the power cable to the power supply. Connect the other end of the power cable to the illuminator. Plug the power supply into an AC outlet and the illuminator is ready for use.

> Wayne Bonin 3/11/2019 PN 10976 Nikon Eclipse TS100 REV Installation Instructions SHEET 8 OF 8

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