

Nanodyne Replacement Illuminator for Olympus CH30 Microscope Installation Instructions - Step 1. Remove back cover and old lamp housing.



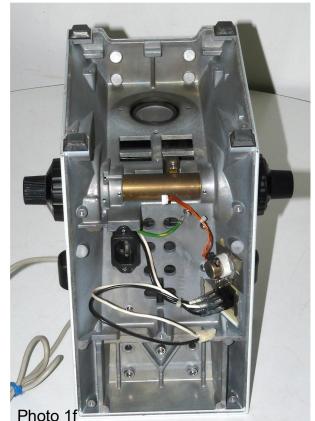




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Be sure AC power is disconnected. Remove back cover, and original illuminator from the bottom of microscope.

Be sure that the now unneeded 115/230 VAC wiring (white and black wires) cannot cause a short circuit in case AC power is connected by mistake sometime. They can be completely removed if desired.

Wayne Bonin 1/18/2020
PN 10556 Olympus CH30 Illuminator REV Installation Instructions 3

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Nanodyne Replacement Illuminator for Olympus CH30 Microscope Installation Instructions - Step 2. Remove old potentiometer.





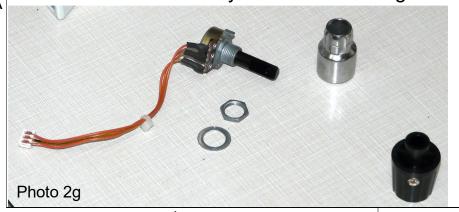








Remove the original adjustment pot. First remove the knob by loosening the screw with a phillips screwdriver. Then remove the nut with an 11mm hex socket. You should be able to turn the socket by hand. If it is too tight a deeper socket than shown will be required. Photo 2h



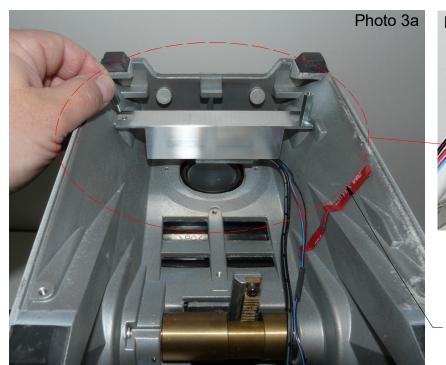
Keep the original washer and knob shown at left to install the new pot.

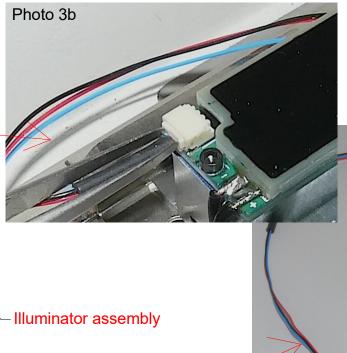
We don't know exactly what the screw in the photo 2h is for. It is only on the CH30, not on the CX40 as in photo 2e. Do not unscrew it.

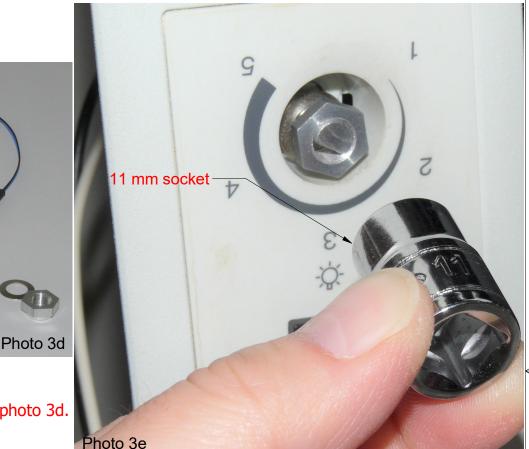
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Nanodyne Replacement Illuminator for Olympus CH30 Microscope Installation Instructions - Step 3. Attach Nanodyne illuminator and pot cable assembly.







Note: The new Pot Cable Assembly is shown in photo 3d.

Photo 3c

Connect the pot cable to the white connector on the illuminator circuit as shown in photo 3b. Note that the connector is keyed to fit only one way.

Position the illuminator assembly as shown in the photo 3a, and secure with the two 5.5mm diameter x 18mm long hex standoffs by hand.

Install the new adjustment pot as shown in photo 3c, securing it in place with the custom nut (provided) and washer (saved from the original pot). Getting the nut started may be rather difficult. Tilting the microscope so that the shaft of the pot points straight up will help, as gravity is then helping rather than fighting you.

After getting the nut started on the threads of the pot, tighten it snuggly by hand with the socket as shown in photo 3e. Then replace the knob.

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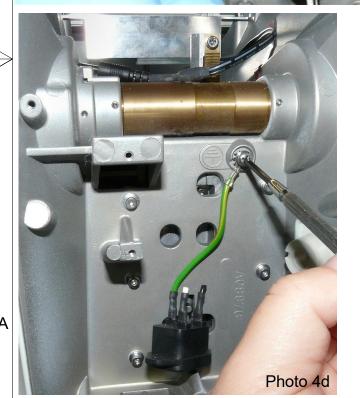
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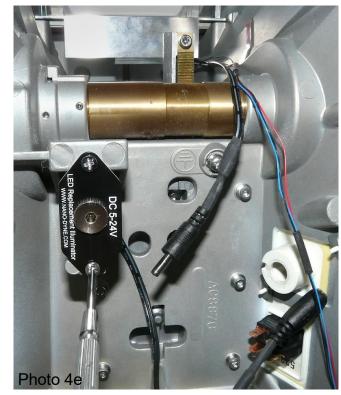
Nanodyne Replacement Illuminator for Olympus CH30 Microscope Installation Instructions - Step 4. Remove unneeded AC power switch and cable. Install DC power plate.













Unscrew AC power connector (photo 4a) and unplug the power cable from the power switch (photo 4b). Cut the black and white wires if desired (photo 4c). Unscrew ground cable (photo 4d). Attach DC power plate assembly (photo 4e) and plug in the power cable (photo 4f). The new illuminator system runs on its own DC power supply, so the AC connections are no longer needed. In addition, removing the AC power lines is a safety measure to avoid electrical shock if the microscope was plugged in by mistake while being maintained.

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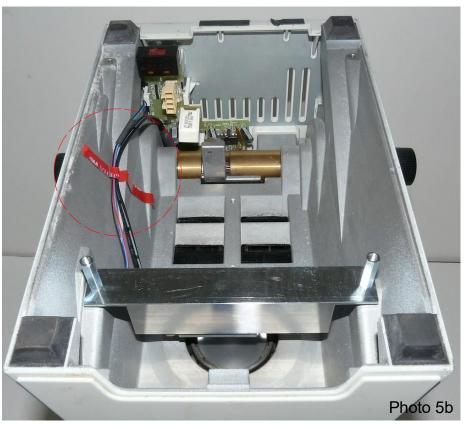
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Nanodyne Replacement Illuminator for Olympus CH30 Microscope Installation Instructions - Step 5. Re-install back cover, secure cables and connect new power supply.





Replace the back cover on the microscope (photo 5a).

Secure the cables with the 3M VHB tape provided, so the cables cannot get caught in the rack and pinion mechanism, or hang out the bottom (red circle in photo 5b).

The original bottom cover is integral with the old illuminator, and will not fit with the new illuminator installed without extensive modification. Install Nanodyne bottom cover using M3 button head cap screws provided (photos 5c & 5d).

Plug the power supply cable into the DC power plate (photo 5e).







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