

## Z Encoder Probe Installation Instructions

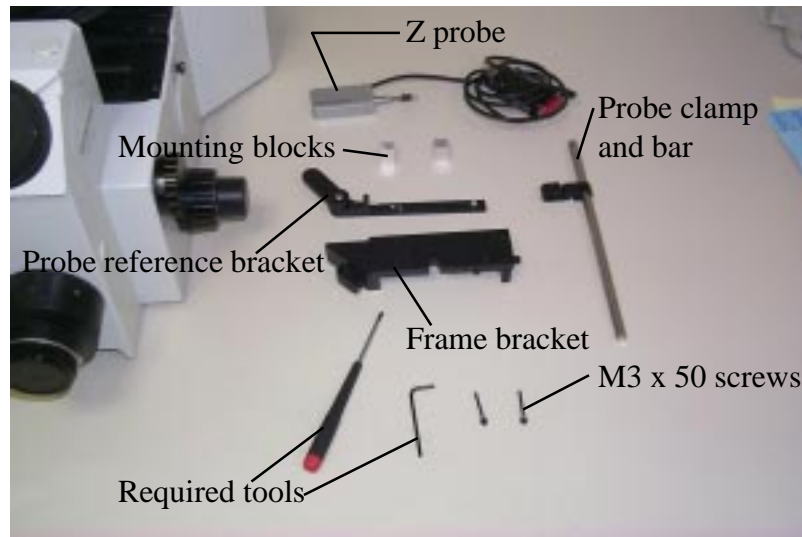
These instructions are specifically for mounting the Prior Scientific Z axis encoder probe and the Universal Mounting bracket to the Olympus IX series microscopes.

(1) You will need the following tools to complete the installation of the Prior Z encoder probe onto the IX series microscope

- Flat Head/Phillips Screwdriver
- 3 mm Allen Wrench

(2) Before beginning installation check to see that all of the required components were shipped with the Z encoder probe. The kit will include:

<u>Item</u>	<u>Qty</u>
Z probe	1
Mounting blocks	2
Probe reference bracket	1
Probe clamp and bar	1
Frame bracket	1
M3 x 50 screws and washers	2



(3) Remove existing manual or motorized stage.

(4) Remove the 2 phillips head screws from plastic focus block cover located behind the nosepiece



(5) Place a mounting block over each hole on the plastic focus block cover. Then place the probe reference bracket on top of the mounting blocks so that the encoder contact plate protrudes out to the left of the microscope. Secure the probe reference bracket and mounting blocks to the microscope with the (2) M3 x 50 screws and washers provided. Note: The orientation of the bracket should be such that the glass side of the encoder contact plate is facing down.



encoder contact plate  
glass side down

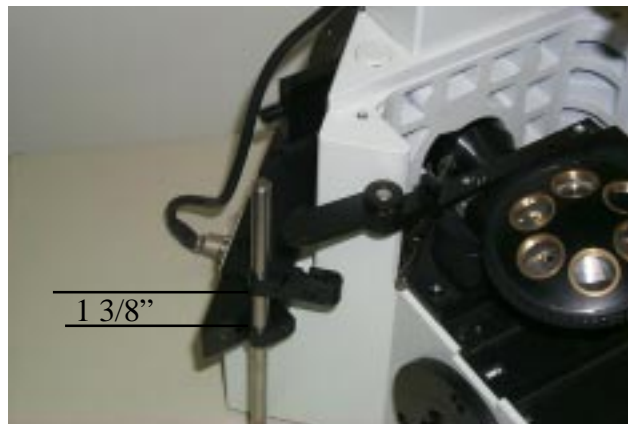
(6) Remove the plastic plug from the rear left of the microscope stand



(7) Mount the frame bracket on the rear left leg of the microscope stand by tightening the clamping screw.



(8) Install the probe clamp and bar into the frame bracket so that the probe clamp is above the frame bracket by appx. 1 3/8"

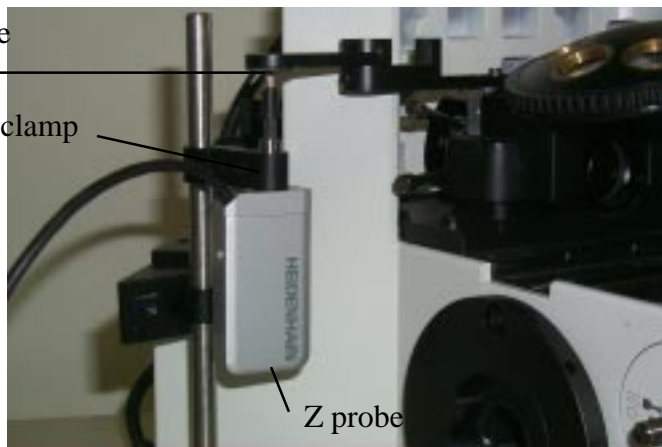


(9) Insert the Z probe into the probe clamp and tighten the clamp. The Z probe should be oriented as below with the plunger facing up.

contact plate on probe  
reference bracket

probe clamp

Z probe



(10) Compress the plunger on the Z probe and rotate the contact plate on the probe reference bracket so that the plunger from the Z probe will contact in the approximate center of the glass contact surface. Gently release the plunger.



Installation of the Z encoder Probe is complete. Confirm that the Z encoder plunger maintains contact with the glass contact surface on the probe reference bracket throughout the required range of motion. The overall travel of the Z probe is 12 mm.

If the Z probe loses contact with the glass contact surface during the required focus travel, the height of the Z probe needs to be adjusted. To adjust the height of the Z probe, loosen the screw which holds the probe clamp to the round bar and move the Z probe up or down as required.

End of Instructions

2/26/01

JH

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