

## H122X200 Zeiss Axiovert 200 Focus Drive Installation Instructions

### **Tools required**

2 mm Hex. Wrench  
3 mm Hex. Wrench  
Medium Flat Blade Screwdriver

### **Fitting Instructions**

If a stage is fitted to the microscope it will be necessary to remove it before installation.

- 1) Firstly attach the probe reference bracket to the microscope objective holder mount with the two M3 x 10 screws provided (see fig.1).



Fig. 1

- 2) Using a flat blade screw driver attach the frame mounting bracket assembly as shown in fig.2



Fig. 2

- 3) If necessary adjust the triangular end block by loosening it's mounting screw and rotating, so that the encoder mounting shaft will be as perpendicular as possible when fitted (fig. 3).



Fig. 3

- 4) Fit encoder mounting shaft and encoder as shown in fig. 4 ensuring that the probe is positioned centrally on the glass reference disc (fig. 5)



Fig. 4

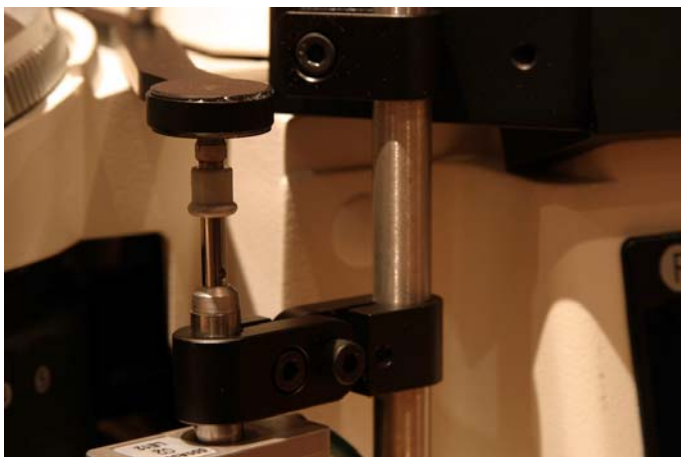


Fig.5

- 5) **It is most important that the focus motor assembly is fitted to the right hand side of the microscope only.** Before attaching the focus motor, the rubber cover which is normally fitted over the fine focus knob will need to be removed as shown in fig. 6



Fig. 6

- 6) Place the two halves of the focus adapter sleeve over the coarse control knob as shown in fig. 7

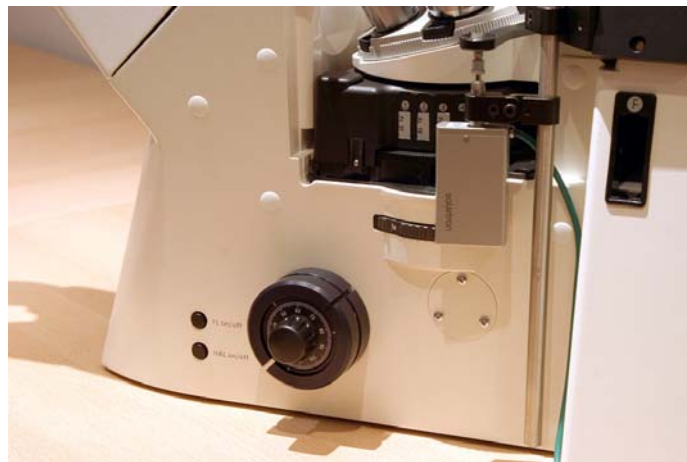


Fig. 7

- 7) While holding both halves of the focus adapter sleeve in place, slide the outer housing of the focus motor assembly over them as far as it will go. Tighten the three setscrews that are positioned around the periphery of the outer housing until secure, ensuring that they line up with the recess that runs around the outer surface of the sleeve. Care should be taken not to over tighten or position any of the screws over the gaps between the two halves of the adapter sleeve. Check that the unit has been tightened sufficiently by taking hold of it and turning it, if the adapter is correctly fitted it will stay attached.

- 8) Slide the focus motor into the outer housing as far as it will go and while applying gentle pressure to the motor tighten the clamp screw as shown in fig. 8. This will hold the motor in place. The rubber drive bush on the end of the motor spindle should now be pressing against the end surface of the fine focus knob. This can be confirmed by manually rotating the exposed fine knob on the opposite side of the microscope and feeling the resistance caused by the detent positions of the stepper motor as it rotates. This will not cause any damage to the focus motor.



Fig. 8

- 9) Confirm that the controller is switched off before connecting the digipot (if supplied), focus motor and encoder cables to the relevant sockets on the rear of the controller.
- 10) Re-fit stage.
- 11) Installation is now complete.

