

H122LB Installation Guide

H122LB Focus Motor for the Leica DMLB and DMLM microscope ranges.

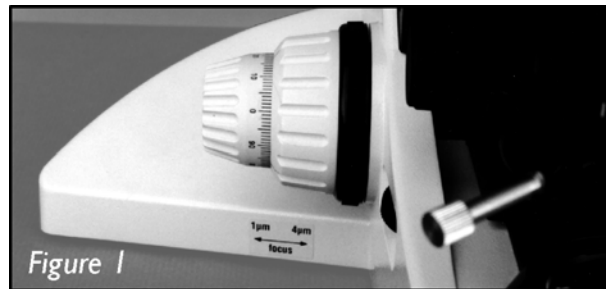
H122LB Parts List.

- a. H249 Microstep Focus Motor
- b. H1073 Adapter ring (for Leica DMLB)
- c. H1166 Drive coupling (For Leica DMLB)
- d. H569 Focus motor sleeve
- e. S690 Thumb locking screw
- f. W1401 2mm hexagonal wrench
- g. W347 1.5mm hexagonal wrench



Configuration Notes.

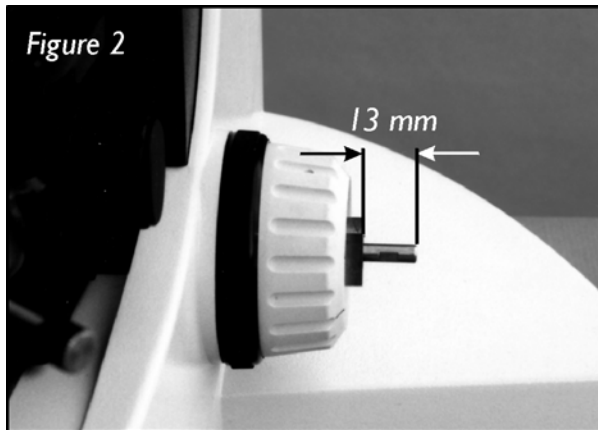
The H122LB can only be fitted to the right hand side of the DMLB/M instrument. This is because the instruments are equipped with adjustable fine focus sensitivity. Note that this has two settings depending on whether the fine focus mechanism is pushed to the right (4 microns) or pushed to the left (1 micron). This sensitivity setting chosen is indicated by the label underneath the left hand focus control (Figure 1). The fine focus must be set at the 1 micron position when being used in conjunction with the H122LB.



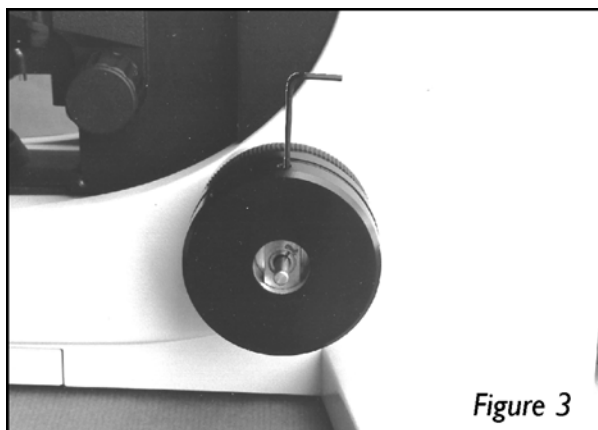
Installation

- I. Push the fine focus fully to the left. Note the amount of the vernier scale showing on the left hand knob (figure 1). Fitting the H122LB is done with the fine focus in this 1 micron position.

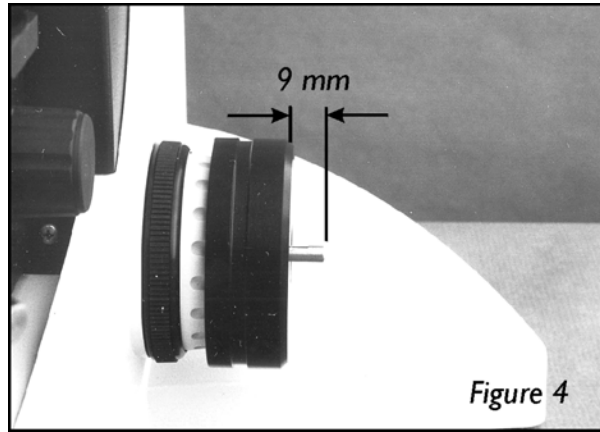
2. Remove the right hand focus knob using the 1.5 mm hexagonal wrench key inserted down the small hole in the right hand fine focus. Hold the left hand fine focus knob when pulling off the right hand fine focus knob ensuring that there is no lateral movement of the shaft. There should be approximately 13mm shaft length protruding from the brass boss (figure 2). Ensure that the small spring washer is still on the shaft.



3. Fit the large adapter ring over the brass boss. Note that the orientation of the adapter ring should be such that the grub screw in the adapter ring screws down onto the centre of the radius (curved part of the brass boss) - (figure 3)

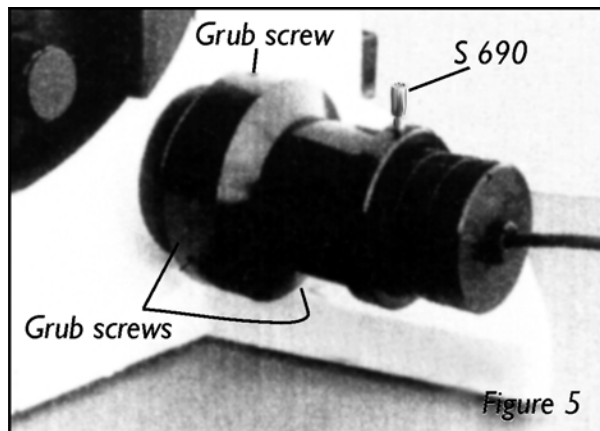


4. Push this fully towards the body of the microscope leaving approximately 9mm of shaft protruding from the adapter ring whilst tightening up the adapter ring using the 2mm hexagonal wrench key (figure 4).



5. Fit the drive coupling on the fine focus shaft using the 1.5mm hexagonal wrench key. Orientate the shaft so that the grub screw will locate on the flat of the shaft. Push the drive coupling gently towards the adapter ring whilst tightening the grub screw. Check that the fine focus rotates freely and is still set at 1 micron.

6. Fit H569 motor sleeve on the adapter ring. Tighten up 3 grub screws in sequence using the 2mm Hexagonal wrench key (figure 5). It may be necessary to rotate the motor sleeve to gain access to each grub screw. The motor sleeve and adapter ring are now attached to the coarse focus.



7. Slide the H249 Microstep Focus motor assembly into the motor sleeve and tighten the S690 thumb screw whilst gently pushing the focus motor assembly towards the microscope such that there is a good contact between the rubber surfaces of the drive of the motor and the drive coupling (figure 5). The fitting is now complete. The motor is now able to drive the fine focus mechanism of the microscope.