

# Olympus BX50\BX60 Installation Procedure

The procedure below outlines the steps necessary to install the ASI Microscope Focus Controller Drive onto the Olympus BX50\BX60 microscope.

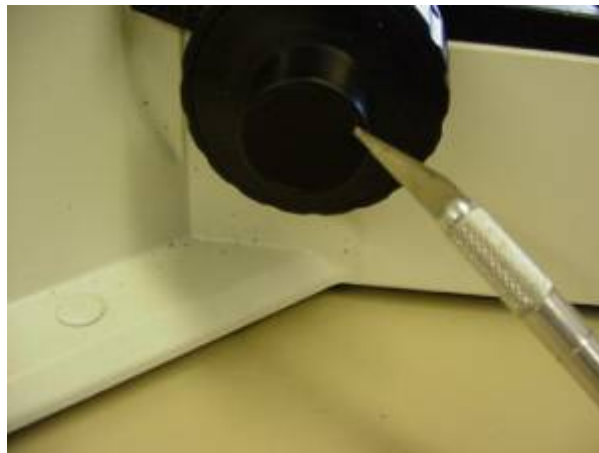
To perform the following steps you will need the following tools:

Medium flat blade screwdriver 2.5mm, 1/16, 5/64 and 7/64 inch hex wrenches ASI provides the hex wrenches.

The procedure has four parts:

1. Removing the left fine focus knob & installing the clutch plate
2. Installing the baseplate
3. Installing and aligning the motor drive assembly.
4. Installing the motor drive cover plate & fine focus knob.

## Part 1 - Removing the Left Fine Focus Knob & installing the clutch plate





Remove the left fine focus knob from the microscope as follows:

Use a knife to remove the small plastic cover

Firmly hold the right fine focus knob with your right hand and use the 2.5 mm Allen wrench to remove the screw that secures the left fine focus knob.

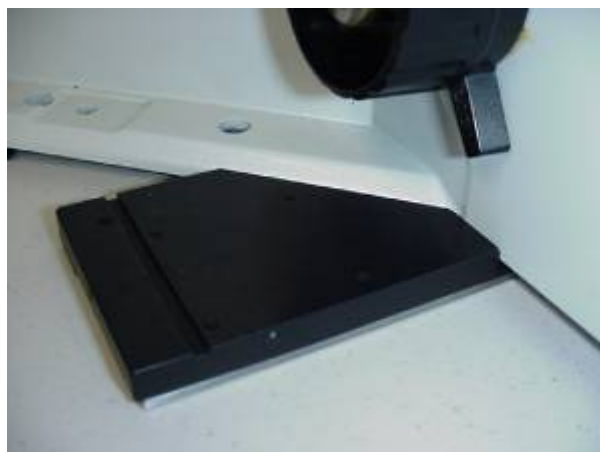
## **Install the clutch plate as follows:**





Locate the small brass clutch plate and slide it onto the fine focus shaft in place of the fine focus knob that was just removed. After the clutch plate has been installed onto the fine focus shaft install the ASI drive as outline in the next section. When tightening the clamp assembly, insure that you slide the clamp against the brass clutch plate and tighten it with the 7/64" Allen wrench as shown in the above photo.

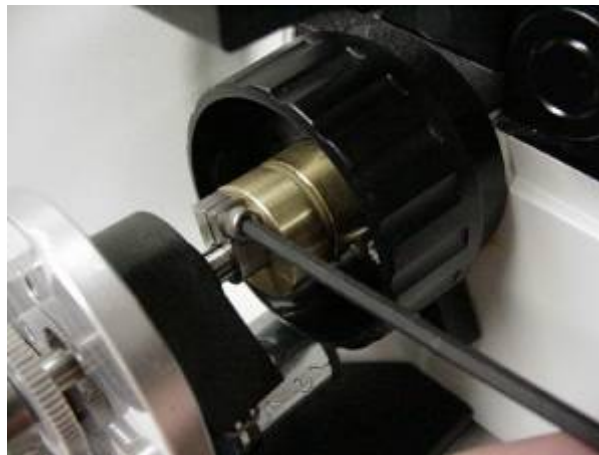
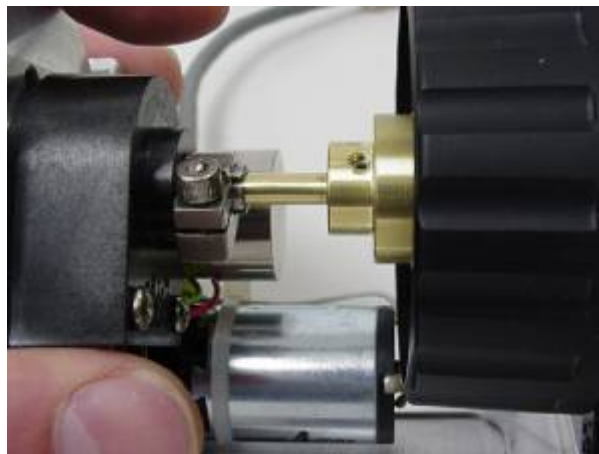
## Part 2 - Installing the Baseplate



Locate the baseplate and remove the ASI drive from it if it is attached by using the Allen wrench to remove the Horizontal adjustment screw. Position the base plate assembly it so that the horizontal adjustment bar is on the left side of the microscope. Lift the front of the microscope up and slide the base plate under the microscope so that angled portion of the base plate is aligned with the contour of the microscope.

### Part-3 Installing & Aligning the Motor Drive





Locate the ASI fine focus motor drive, vertical adjustment bar, and vertical adjustment screw (M4 x 12 hex screw). Use the 7/64" Allen wrench to loosen the two vertical adjustment screws located on the vertical adjustment bar that is attached to the rear of the drive. Align the drive shaft on the ASI drive with the microscope fine focus shaft and slide the motor drive over the fine focus shaft.

Rotate the drive plate & vertical adjustment bar assembly so that the tab that is on the bottom of the vertical adjustment bar slides into the machined groove on the base plate.

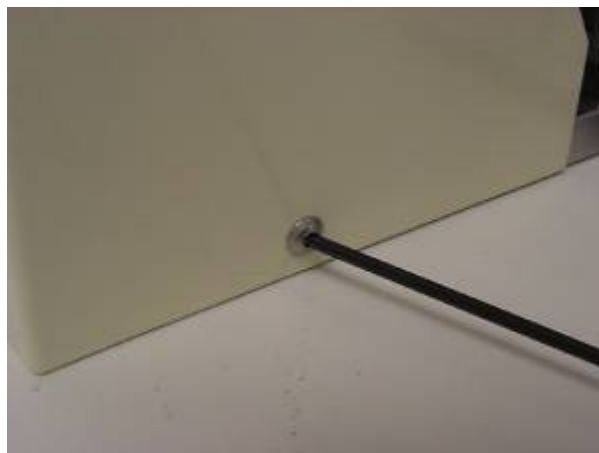
Use the 3mm or 7/64" Allen wrench to screw in the horizontal adjustment screw but leave it loose enough so that the vertical adjustment bar assembly can slide within the groove. Use the 5/64 Allen wrench to tighten the setscrew located on the right side of the base plate. Tightening this setscrew will cause the silver clamp to press against the microscope and this will secure the base plate to the

microscope. Slide the clamp against the brass clutch plate as outlined in Installing the Clutch Plate & use the 7/64 inch hex wrench to tighten the drive shaft clamp. This clamp is located on the drive shaft between the black encoder and the microscope. .

Slide the motor drive up and down, forward and backward slightly while turning the right fine focus knob until it is in the position where minimum drag is felt on the right focus knob. Secure the motor drive into position by tightening the horizontal and vertical adjustment screws

Recheck the alignment by noting the drag on the right fine focus knob. No noticeable drag should be felt. Repeat the steps above if necessary.

## Part 4-Installing the motor drive cover plate & fine focus knob





a) Locate the motor drive cover. Remove the 4/40 button head screws from the drive with the 1/16 " Allen wrench. Position the motor drive covert over the motor drive assembly and secure in place using the 4/40 button head screws.

b) Screw the black microscope fine focus knob on to the shaft extension.

This completes the procedure for installing the ASI motor drive on to the Olympus BX50\BX60 Microscope.

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