

# FOCUSMATE DRIVER INSTRUCTIONS

## Parts List:

for Focusmate Driver  
FDU-2003

- Hand Controller
- cable
- Universal Motor Bracket
- Motor
- 9V Battery (not shown)
- (2) Allen key screws
- 5/64 Allen Key

## Installation

These instructions assume that the Tele Vue Focusmate has already been installed as it is required for the use of the Focusmate Driver.

The Focusmate Driver comes set up for right side installation. If your Focusmate is on the left side of your telescope you will need to remove the button head screws holding the Motor Holder Ring to the Motor Bracket and switch it to the opposite side of the Motor Bracket.

**Step 1)** Remove the two screws holding the Focusmate bracket to the Focusmate's barrel.

**Step 2)** Position the Motor Bracket so it is forward (toward the front of the telescope) of the Focusmate on all scopes except the Tele Vue-60is. For the Tele Vue-60is, the Motor Bracket must go on the right side of the scope with the Motor to the rear of the scope. (NOTE: The Motor Holder Ring needs to be moved to the opposite side of the Motor Bracket.)

**Step 3)** The two slotted holes in the Motor Bracket should be in line with the holes in the Focusmate bracket. Using the supplied screws and Allen key, lock the Motor Bracket in place.

**Step 4)** Slip the Motor into the Motor Bracket so it is



snug but still can rotate. The Drive Wheel should now be in line with the fine focus knob of the Focusmate. Rotate the Motor until the O-rings make contact with fine focus knob.

**Step 4a)** If necessary, it is possible to adjust the motor position in or out slightly in order to obtain better alignment of the O-rings to the Focusmate. To make an adjustment, loosen the two screws that hold the Motor Bracket onto the Focusmate Barrel. The holes are slotted to allow a push or pull of the bracket in or out to center the O-ring contact on the fine focus knob. Retighten the Motor Bracket attachment screws.

**Step 4b)** Tighten the Motor Lock Knob.

**Step 5)** Remove the back cover of the Hand Controller and connect the 9V battery to the terminal. Note: the battery cover installs easier if the battery is placed in the Hand Controller with the connector wires facing toward you (near cover).

**Step 6)** Plug one end of the cord into the back of the Motor and the other end into the receptacle located in the top of the Hand Controller.

## Operation

It is easiest to start your observing or photography session with the motor disengaged. Loosen the Lock Knob on the Motor Bracket and rotate the Motor housing so the O-rings disengage from the fine focus wheel on the Focusmate.

Achieve a rough focus manually and then engage the Focusmate Driver, remembering to tighten the Motor Lock Knob.

To drive the focuser simply push either of the arrow buttons for the desired direction of travel.

The speed of the driver is varied by turning the knob. At the slowest setting a quick click of the driver will move the focus about half-a-thousandth of an inch!



Installed Focusmate Driver shown from below to illustrate finished assembly (front of the scope is facing down). Notice the contact between the Drive Wheel and the fine focus knob on the Focusmate. Also, the Drive Wheel is off-center of the motor so that when the motor is rotated, the Drive Wheel disengages from the Focusmate.