

Short Manual for TS 2" Crayford Focusers

This manual is made for all TS 2" Crayford models (Newtonian, Refractor, SCT, with and without 1:10 microfocuser).



Mounting the Focuser

All descriptions refer to the respective focuser versions. It is not intended that a focuser can be attached to a different telescope type.

Newtonian:

The focuser is fixed with four M4 countersunk screws. The screws are available in every DIY store and are not part of the scope of delivery. You can either cut an M4 thread directly into the tube (provided you have a thick enough tube) or you can fix it with nuts from the inside.

Refractor:

The focuser has a flange that fits directly into many telescopes, e.g.:

- Skywatcher or Celestron 80mm refractors (except ED)
- Skywatcher, Celestron or GSO 90mm refractors

The focuser is fixed with three fitting M4 screws (not part of the scope of delivery).

Adaptors are available for several other telescopes, e.g. Synta 80 ED, 102mm refractors, ...

Schmidt-Cassegrain or Maksutov:

If the telescope has an SC-thread at the rear the Focuser can be screwed directly onto the telescope with no further adaptors or screws.

Operation:

Crayford focusers use friction to drive the focuser drawtube. As a result the movement is very smooth and has no play, but heavy accessories can cause the focuser to slip.

The focuser has two adjustment screws (see image above). The upper screw on the image is for adjusting the friction of the focuser. If you tighten this screw movement will become a bit stiffer, but heavier accessories can be used. If you loosen this screw entirely the focuser drawtube will in turn become loose and will no longer be held in position.

The lower screw on the image is the locking screw. It serves to lock the focuser drawtube in position once you have found focus, e.g. for photographic use. When this screw is tightened the focus knobs can be moved freely without causing a movement of the focuser drawtube.

Do not use undue force with any of these screws, damage to the focuser may be the result.

Exception for the Low-Profile Newtonian Focuser:

Due to the low profile design the locking screw would touch the focuser drawtube too far down. As a result the drawtube would be shifted out of position if you lock the locking screw with force.

For this reason the following alternative method is used: Lock the focuser in position by locking the friction screw tightly. This also results in a precisely locked focuser drawtube.

The locking screw of the focuser is replaced by us with a slug screw that has no function. It serves only to cover the hole. Please do not attempt to lock the focuser with this screw!

We hope you enjoy using your new focuser!

Your Telescope-Service Team