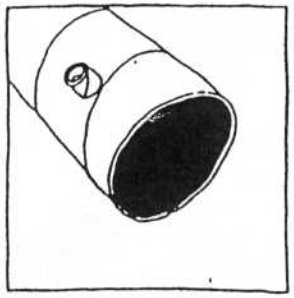
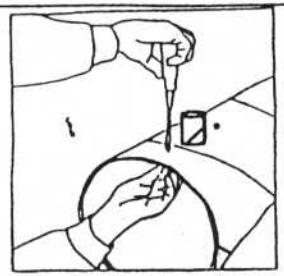
Preparing The Eyepiece

49



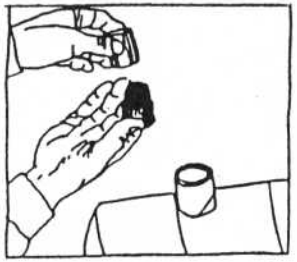
Letting the paint dry.



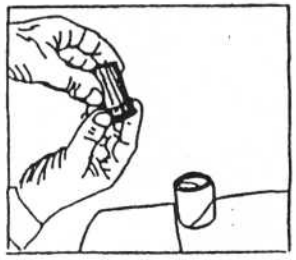
50

Two sheet metal screws (one on either side of the eyepiece tube) may be used to draw the Masonite rectangle snugly up against the inside of the telescope tube wall.

51



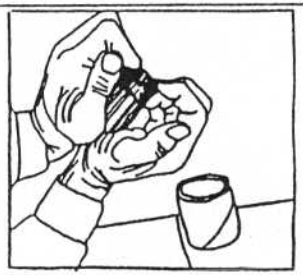
Fitting the eyepiece inside the brass tube. You can purchase an eyepiece, or salvage the eyepieces out of an old pair of binoculars. (See page 4.)



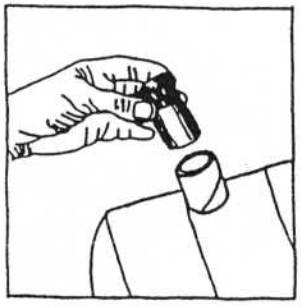
52

If the eyepiece is too small to fit snugly in the brass tube, wrap it in a layer of two of corrugated cardboard.

53



Adjust the amount of cardboard as needed so that the fit of the eyepiece in the brass tube is snug.

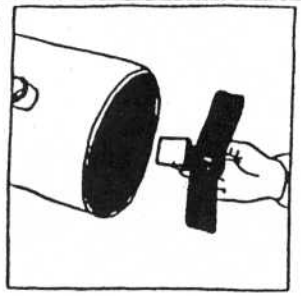


54

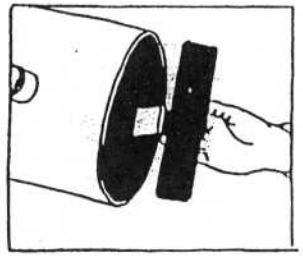
The eyepiece is ready for use!

Installation & Adjustment Of The Spider

55



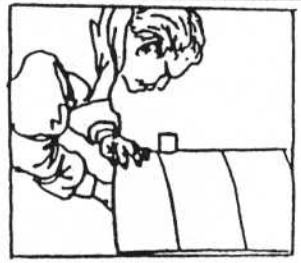
Trying out the fit of the spider in the telescope tube.



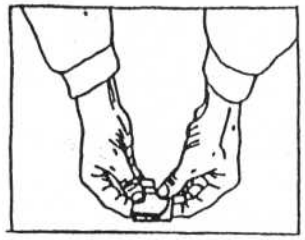
56

Adjust the spider so that the diagonal mirror is in front of the eyepiece hole. (The diagonal mirror should be facing the hole.)

57



When we look through the eyepiece hole we we should be able to see the reflection of the (open) bottom end of the telescope tube in the diagonal mirror.

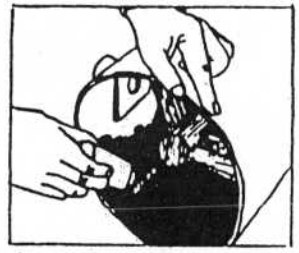


58

If the fit of the spider is too loose, we may tighten the fit with cardboard folded to the necessary thickness...

59

Fitting cardboard under one shingle (the shingle opposite the eyepiece hole). Readjust the spider as needed after fitting the cardboard.



60

When installed, the whole objective mirror will need to be visible in the diagonal when we look into the eyepiece hole (see frame 104). Do not glue the spider to the tube until final adjustments are made on the alignment (see page 34).