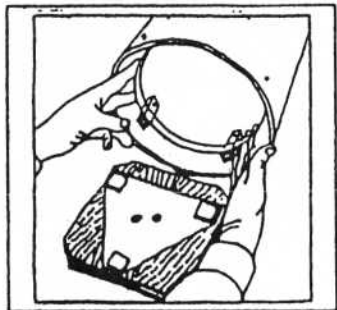


## Mounting The Mirror In The Tube

85

We use four mounting blocks to mount the mirror in the telescope tube. When the mirror is installed, it should rest on the two bottom blocks, but clear the two top blocks. Furring nails are placed at the ends of each of the mounting blocks to prevent the mirror from rolling out of the front end of the tube. After you have installed the mounting blocks and the mirror, check to make sure that the mirror cannot get past the furring nails. If it does, you will have to increase the height of the mounting blocks as necessary.

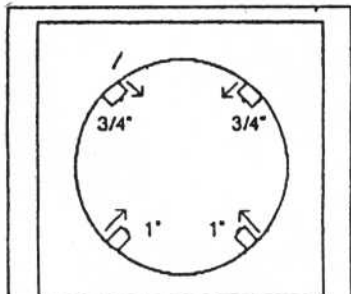


86

The mirror mounting blocks are designated PART F in the plywood cutting plans on pages 6-9

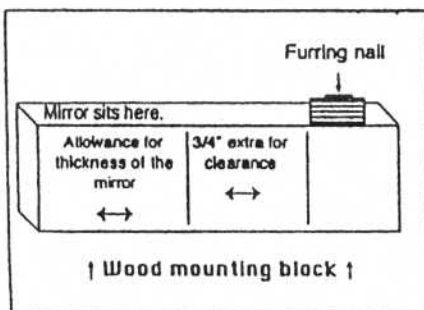
The mounting blocks are screwed in place inside the telescope tube. The mirror sits on the two bottom blocks and should just clear the top blocks—under no circumstances should the mirror be pinched or squeezed between the blocks.

If the blocks are cut from 3/4" plywood and are 1" wide (they should be about 4" long), we will probably have to place two blocks with the 3/4" side "up" and two blocks with the 1" side "up" in order for the mirror to fit nicely (see diagram at right).



Looking down into the tube with mounting blocks in place.

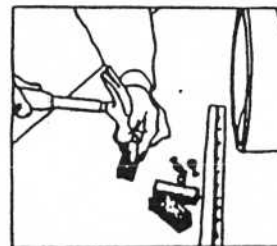
87



A furring nail is hammered into each block before the blocks are screwed into the telescope tube. The furring nails prevent the mirror from rolling out the front end of the telescope tube. To determine the placement of the furring nail, allow room on the block for the width of the mirror, plus an extra 3/4" for clearance.

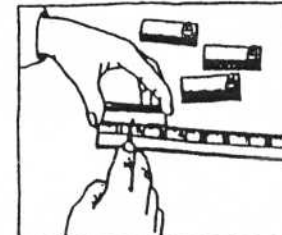
## Installing The Mounting Blocks

88



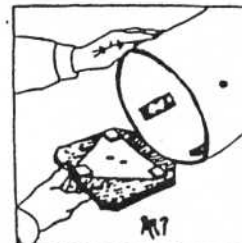
A furring nail should be hammered into one end of each of the mounting blocks (allow necessary clearance—see figure 87) before the blocks are screwed into the tube.

89



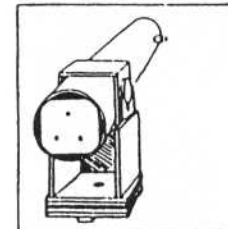
Preparing the blocks for installation in the telescope tube. A pilot hole for the screw may be made in each block (on the side of the block without the furring nail), 2" from the end (i.e. the end without the furring nail).

90



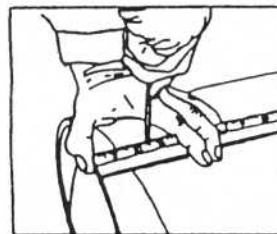
Mounting blocks are screwed into the tube so that the four corners of the tailgate (when installed) will butt up against all four blocks.

91



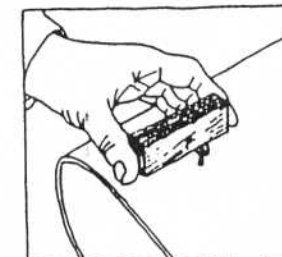
It is convenient to have the eyepiece hole on the right side, and horizontal, when viewed from the end of the tube. One of the tailgate bolts may be centered at the top of the tube.

92



Preparing to screw the mounting blocks into the tube. Pilot holes for each of the screws may be made in the main tube 3" from the rear end.

93



This gives the ends of the blocks 1" clearance from the rear end of the telescope tube, and leaves adequate space for installing the tailgate.