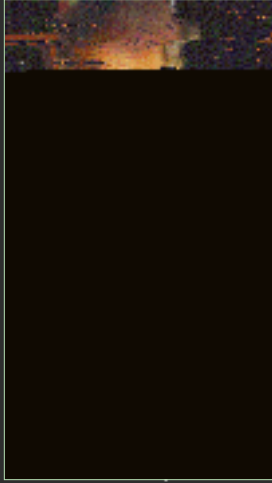




This manual was created using Acrobat 4.0 you need to download the latest



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[My Vanity Page](#)

[My Deep-Sky Page](#)

[How to Build a 13" HoL Travel Scopy Page](#)

Plans for Building a Dobsonian Telescope

brought to you by: [The San Francisco Sidewalk Astronomers](#)

Y

Some not-too-technical advice before you begin...

For telescopes with mirror diameters 16" and larger, a different tube box design and mirror support system is necessary. (Again, John Dobson's telescope-making video listed in "Sources" shows the

● You may also check the "previously owned" market at: <http://www.astromart.com/>.

Newport Glass Works, LTD; 2044-D Placienta Ave; Costa Mesa, CA 92627

Six-inch Telescope Overview with Plywood Cut Pattern

10.10"

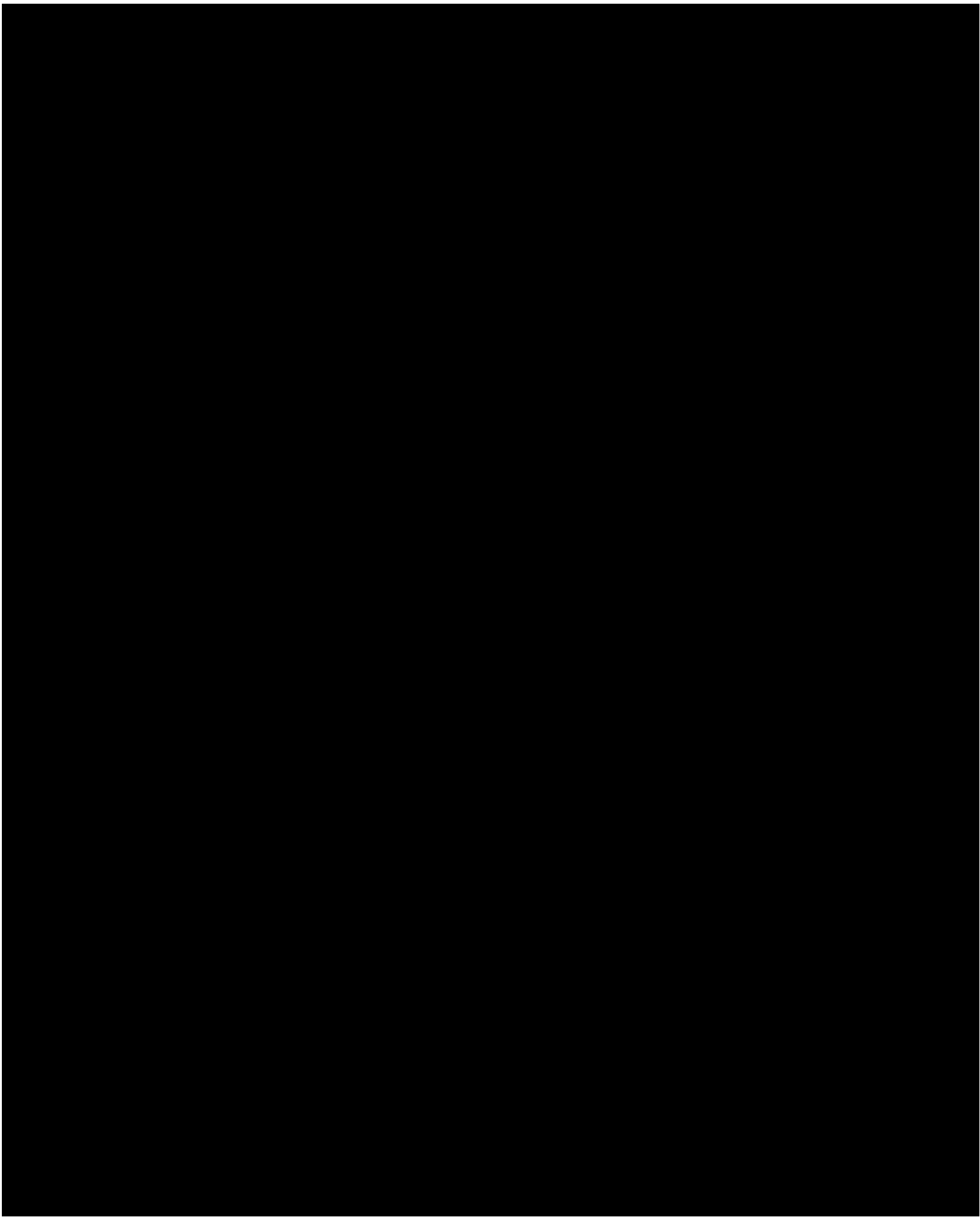
10"

14.10"

14.10"

14.10"



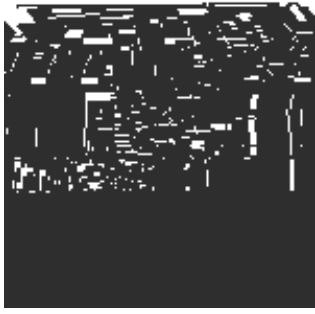


shape... wrap this piece of paper around the dowel

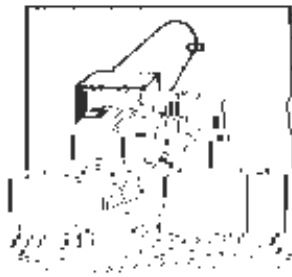


NOTE: Above, a close-up photo of my **Dobsonian Sun scope**

Note: Cut the telescope tube the same length as the focal length of your mirror. Then cut the eyepiece hole back from the front end of the telescope tube by the radius of the tube. That is, for a 10" diameter tube, cut the eyepiece hole 5" from the front end; for a 12" diameter tube, cut the eyepiece hole 6" from



Dividing the circle into six equal segments (radius of circle into six equal segments).



Front edge of Ground Board (upside down, "plan view")--one foot at each corner:



Back edge of Ground Board with foot centered

6) Now turn the Ground Board right-side-up. Make a mark one inch forward (toward the TWO front feet) of the center. *(Do NOT let this 1" forward confuse you; this is just an approximation of the center of the triangle the three feet make. The three sides of this triangle are not equal--the front side of the triangle--the one with a foot in each corner is longer than the other two sides pointing back to the other foot. A more accurate way to determine this center is to find the midpoint of each side of the triangle and draw a line at a right angle to each side toward the center; the intersection of the three lines is the center of the triangle.)*

Rocker Box, i. e., the same size as the diameter of the lag screw (1/2"). (CAUTION: Have someone hold down the record for you while you drill it or it will madly ride up on the bit).

8) On the Ground Board

Cutting the Cradle Boards And Balancing The Tube

CUTTING THE CRADLE BOARDS

- 1) Use the two remaining pieces of Part B for the **Cradle Boards**.
- 2) The **Cradle Boards** need to be cut to hold the **Side Bearings** (circles). (Note: ~~Cut~~ Cut a V-shape in Cu Bearir

1) The telescope's **Side Bearings** (the circles on the

"rocker"].

3)



Keep the mirror pulled back against the tailgate during alignment.

- 1) A suitable, clean tub.
- 2) A drop or two of mild (ivory) dishwashing soap.
- 3) A box of sterile cotton balls.
- 4) A gallon (or less) of distilled water.

1) Wash your sink, *Rubbermaid* tub, whatever, thoroughly.

2) Fill sink, whatever, with *room temperature* water (to avoid thermal shock between the layer of aluminum
; could help loosen the adhesion between the two surfaces--use only room temperature water

3) Submerge mirror in water. Swish around. Let soak.

4) Replace soapy water with fresh soapy water. Do not hold mirror under a running d (--some people do; I don't)

Frequently Asked Questions (FAQ's)

Q: How long will it take me to make this telescope?

Oh, about two weekends, I would guess. I think you will find most of your time spent at the beginning and end of your project: the gathering of the materials; and the final sanding, painting and