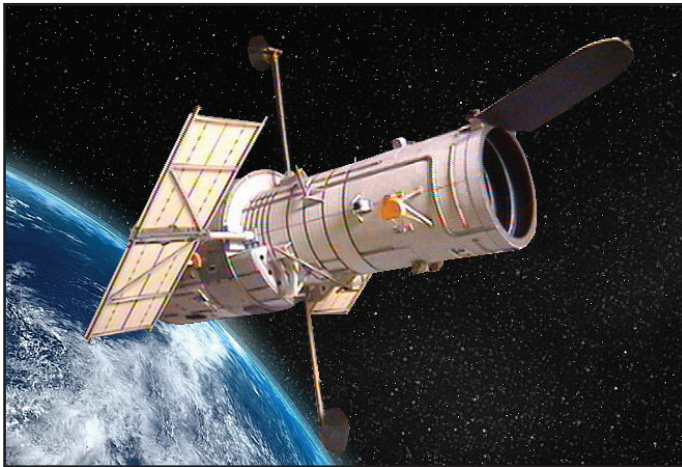


Hubble Space Telescope Expert Model — Interior



Pattern Pieces: Print this document on 32lb paper

Complete assembly directions and more information can be found online at www.hubblesite.org/go/model



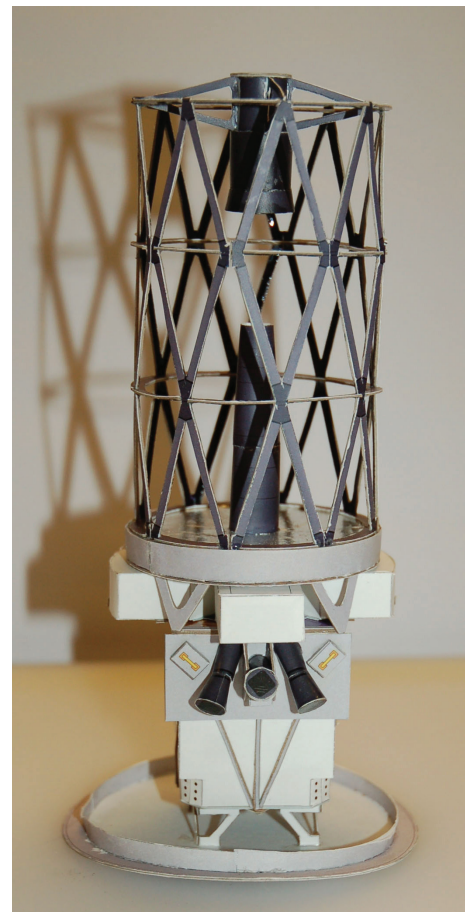
Completed model, exterior (display suggestion)

About this model

This highly-detailed model of the Hubble Space Telescope is intended for experienced model-builders. This portion represents the internal structure of the telescope, including the mirror and the instrument bay, which fits inside of the external shell.

The details of this model are currently based on the telescope's configuration after Servicing Mission 3B in 2002.

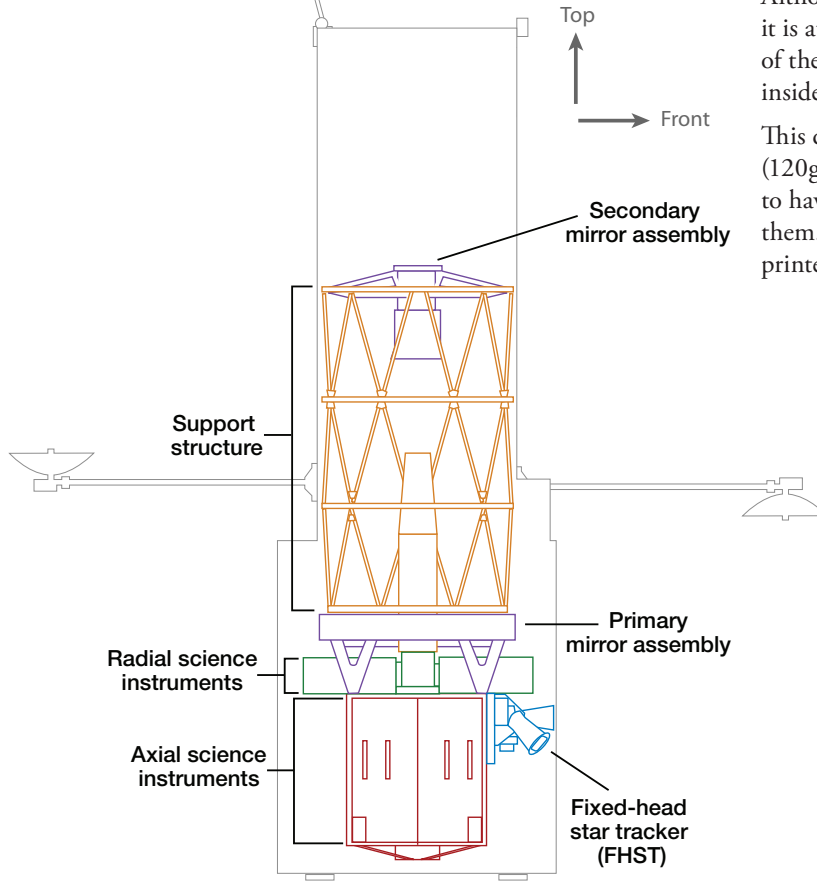
This project is not appropriate for young children because of the high level of detail and the use of dangerously sharp tools. The estimated completion time is 30 hours.



Completed model, interior

Model design by Ton Noteboom
Distributed with permission
by Space Telescope Science Institute
www.hubblesite.org

Hubble Space Telescope
Interior cutaway
side view



When assembling your model, keep track of which pieces are which by only cutting out the pieces you need for the particular part you are assembling, and lightly write the number of the piece in pencil on the back.

The parts are in sections labeled according to the part of the telescope they belong to.

Although this model can be built on its own, it is attended to accompany the external model of the Hubble Space Telescope and will fit inside of it when both are completed.

This document should be printed onto 32-lb (120g) paper, ideally in color. (You may want to have extra printouts handy in case you need them.) The directions (in a separate file) can be printed on regular paper in black-and-white.

1 cm

1 inch

Pattern scale:

This model is designed to be at 1:48 scale relative to the real Hubble Space Telescope.

To ensure your model hasn't been resized during printing, measure this scale.

Pattern key:

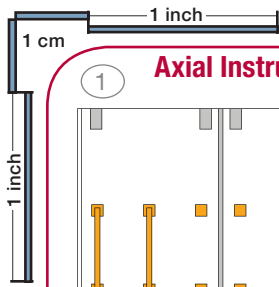
This piece's number

Cut out along outlines

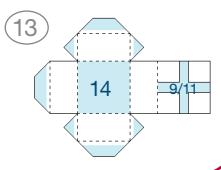
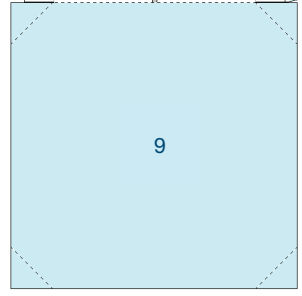
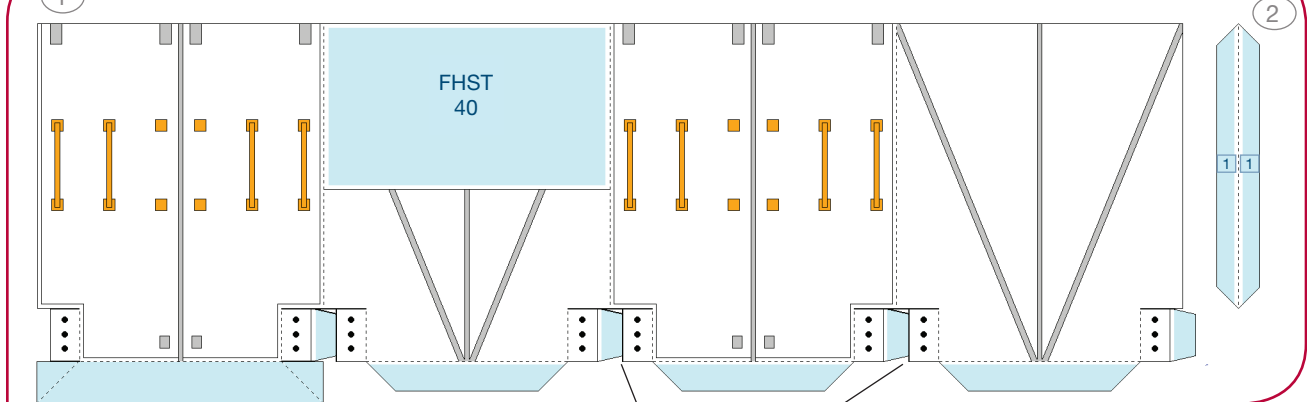
Fold along dashed lines (score before cutting out)

Light blue areas are where glue is applied.

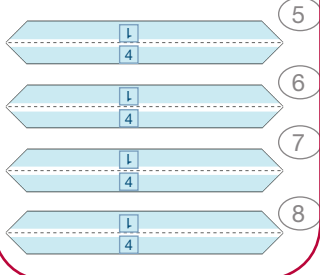
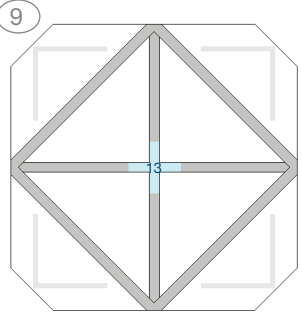
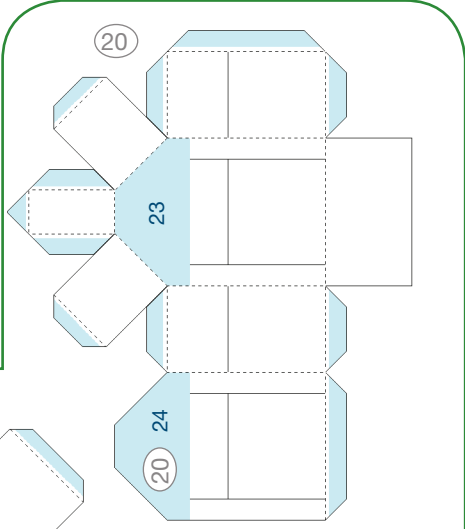
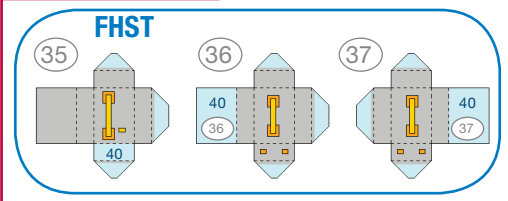
Number of the piece that attaches here



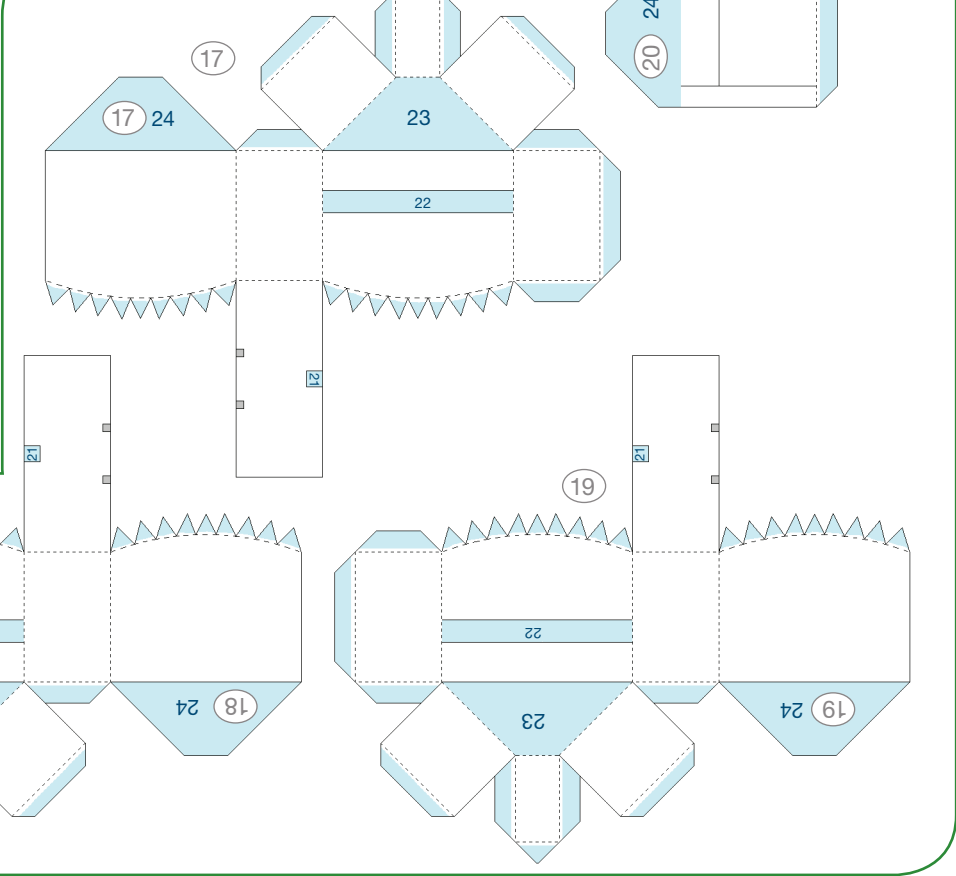
1 Axial Instruments

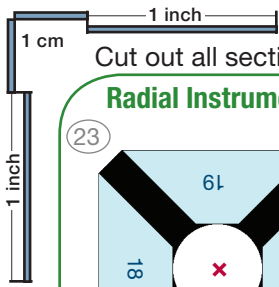


Cut along all double-thick lines to make flaps



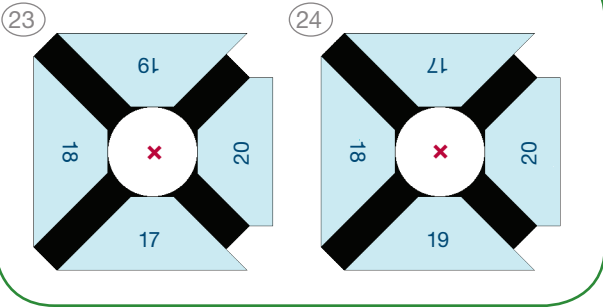
Radial Instruments



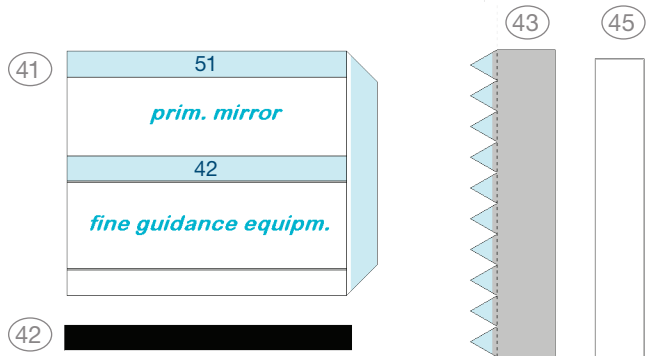


Cut out all sections marked with **x**

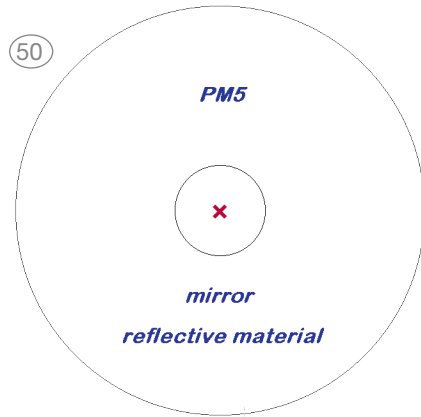
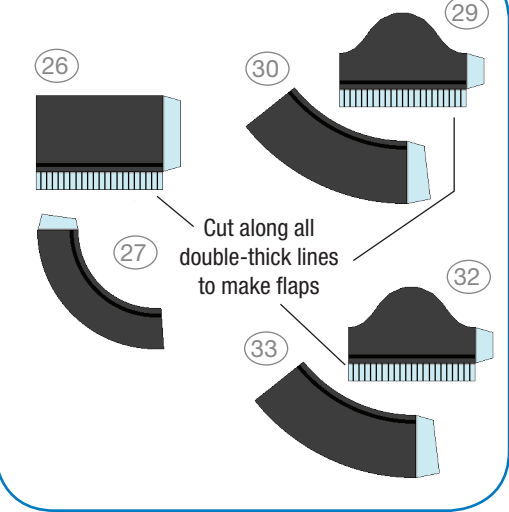
Radial Instruments



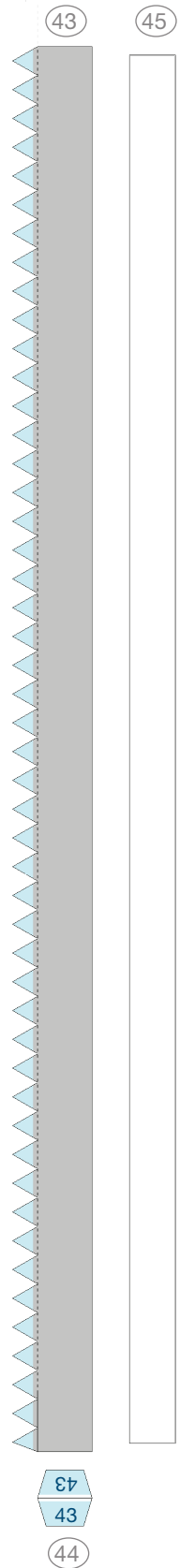
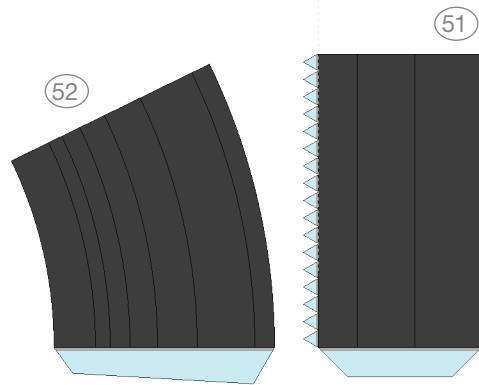
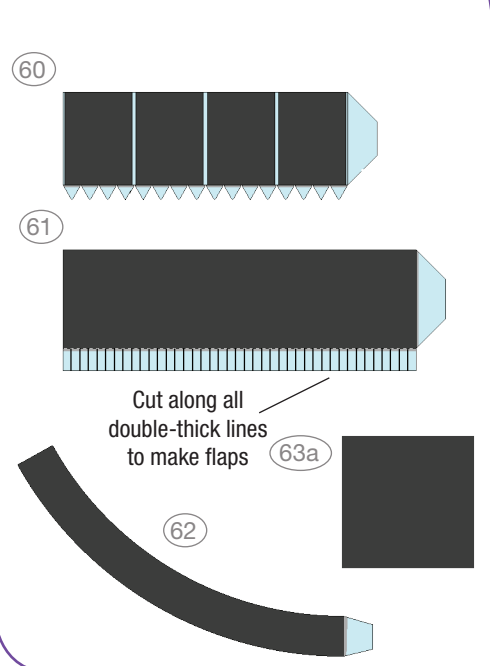
Primary Mirror Assembly

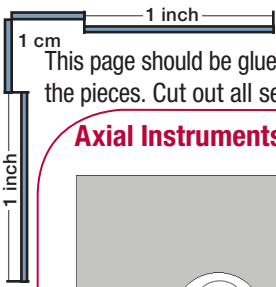


FHST



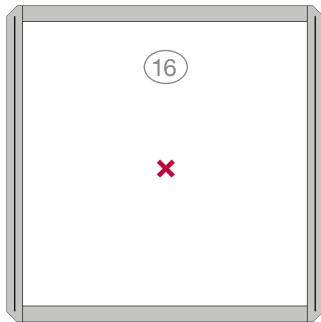
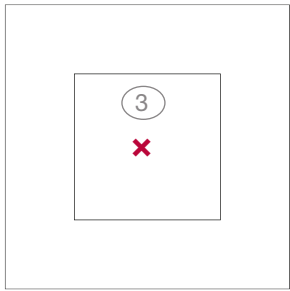
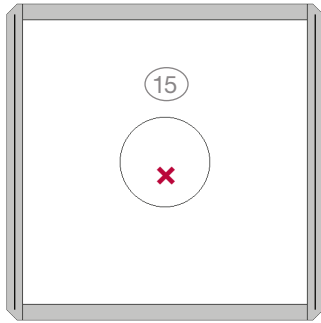
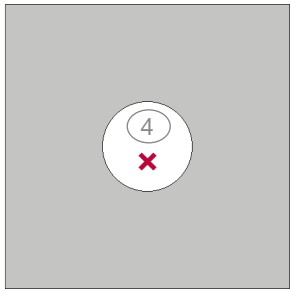
Secondary Mirror Assembly



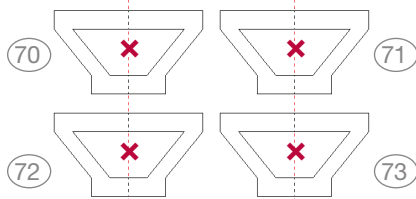
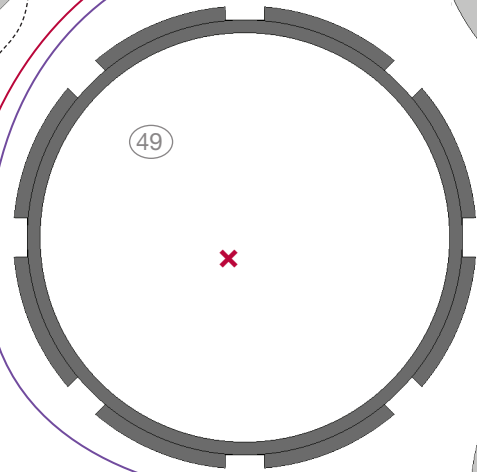
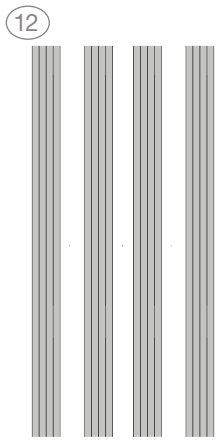
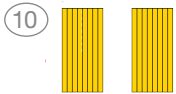
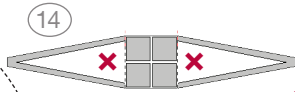
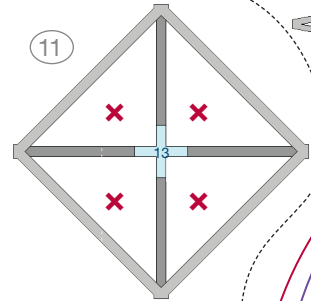


This page should be glued to cardboard before cutting out the pieces. Cut out all sections marked with ✕

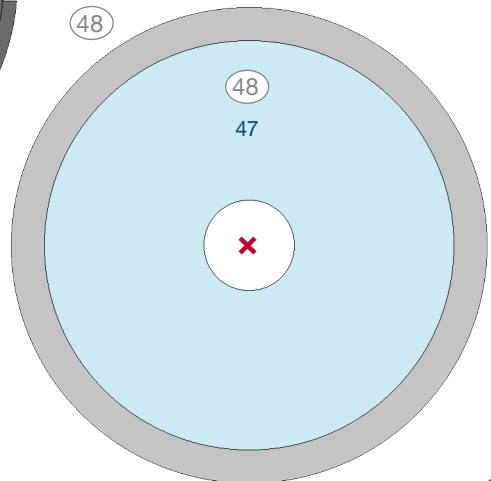
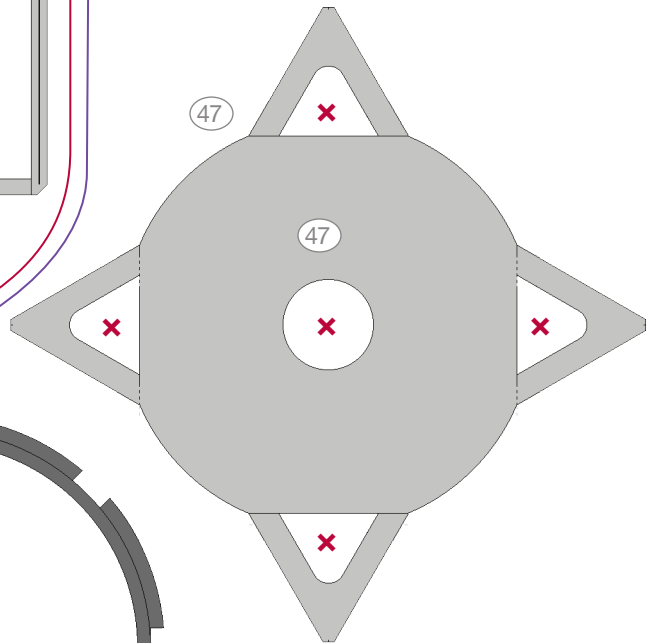
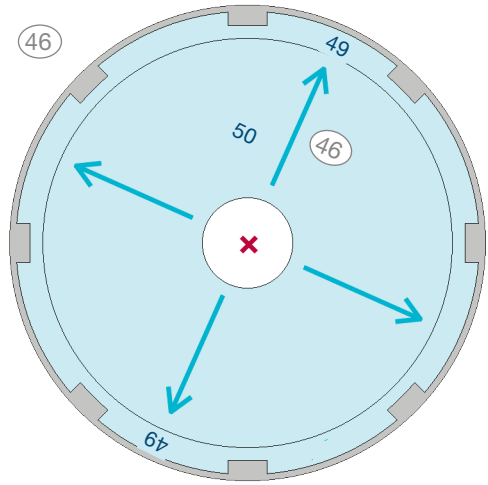
Axial Instruments

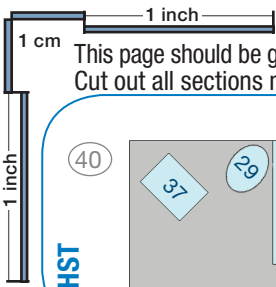


optional details



Primary Mirror Assembly





This page should be glued to cardboard before cutting out the pieces.
Cut out all sections marked with **X**

