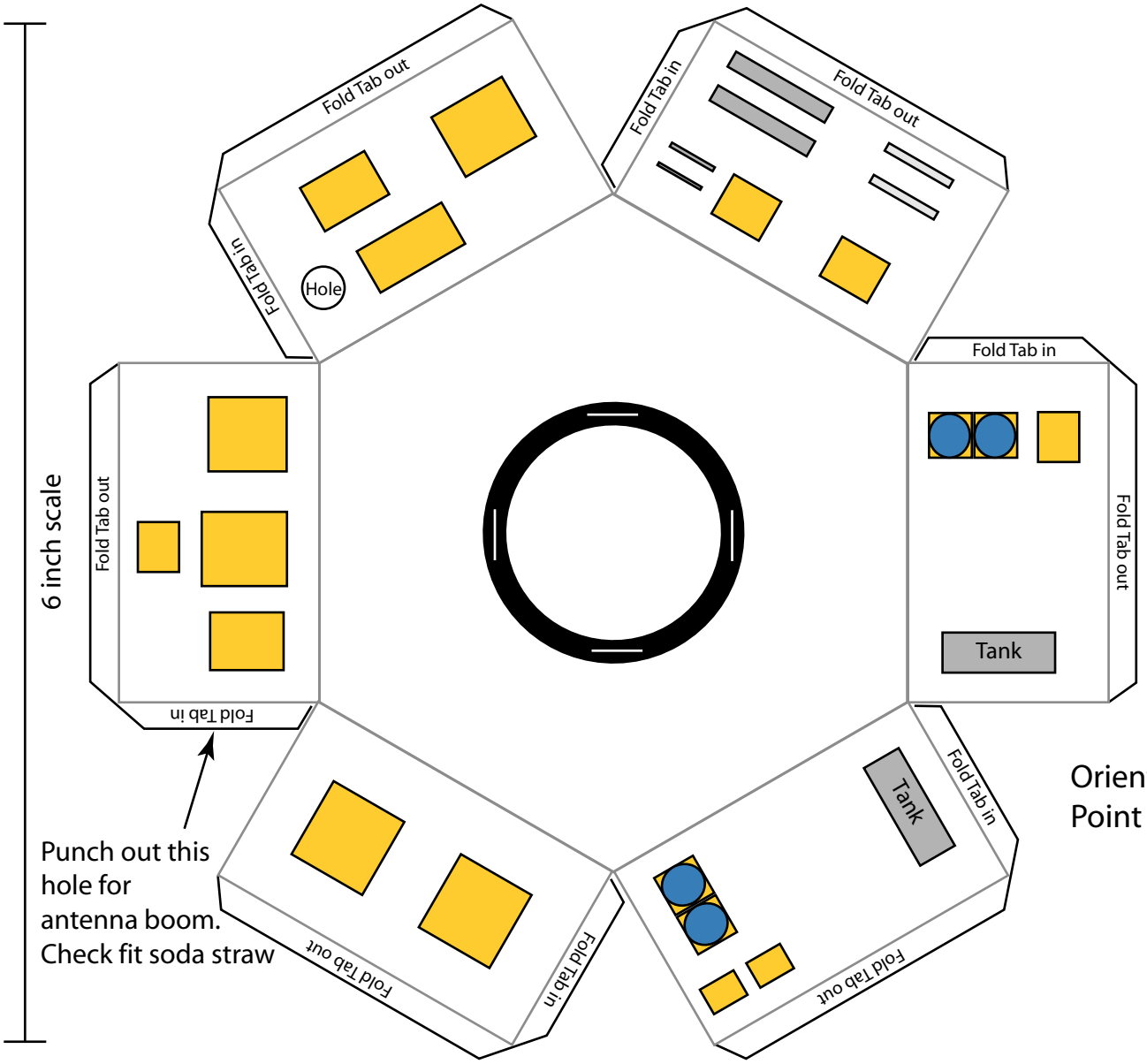
Kepler Spacecraft Base

Sheet 1



Cut around outside edges only. Do not cut out the center.

Make 4 slits in inner ring for Payload Attachment ring.
Use a good straight edge like a metal ruler to make crisp folds.
Fold six side panels with gold colored equipment boxes on the outside
to form a hexagonal (6-sided) base for the spacecraft
Glue the "Fold Tab In" to the inside of the adjacent side panel.

Payload Attachment Fitting. Form into a circular band. Slip tabs into slits in the middle of the base ring. Then fold tabs over and glue on inside and glue end tab.

6 inch scale

Spacecraft Base Plates

Cut along grey lines
Inside and outside of
both parts

Save the round disk from the top piece for the photometer bottom cap.

Slip the part with the hexagonally shaped hole over the hexagonal base from sheet one. Glue the six tabs from the base to this base frame

Orientation
Point A

Cut out this hexagonal area
Save the disk for later

Cut out the lower hexagon and the center hole in it. Glue this piece on top of the base frame to cover the tabs, aligning the hexagons.
Rings 1 and 2 are used later for the photometer

Cut out this hole Save ring-2

Ring-2
Cut out center

Ring-1
Cut out center after using for a template for the Schmidt corrector

A

B

C

6 inch scale
The scale is used to verify that the printer software is not scaling to a different size

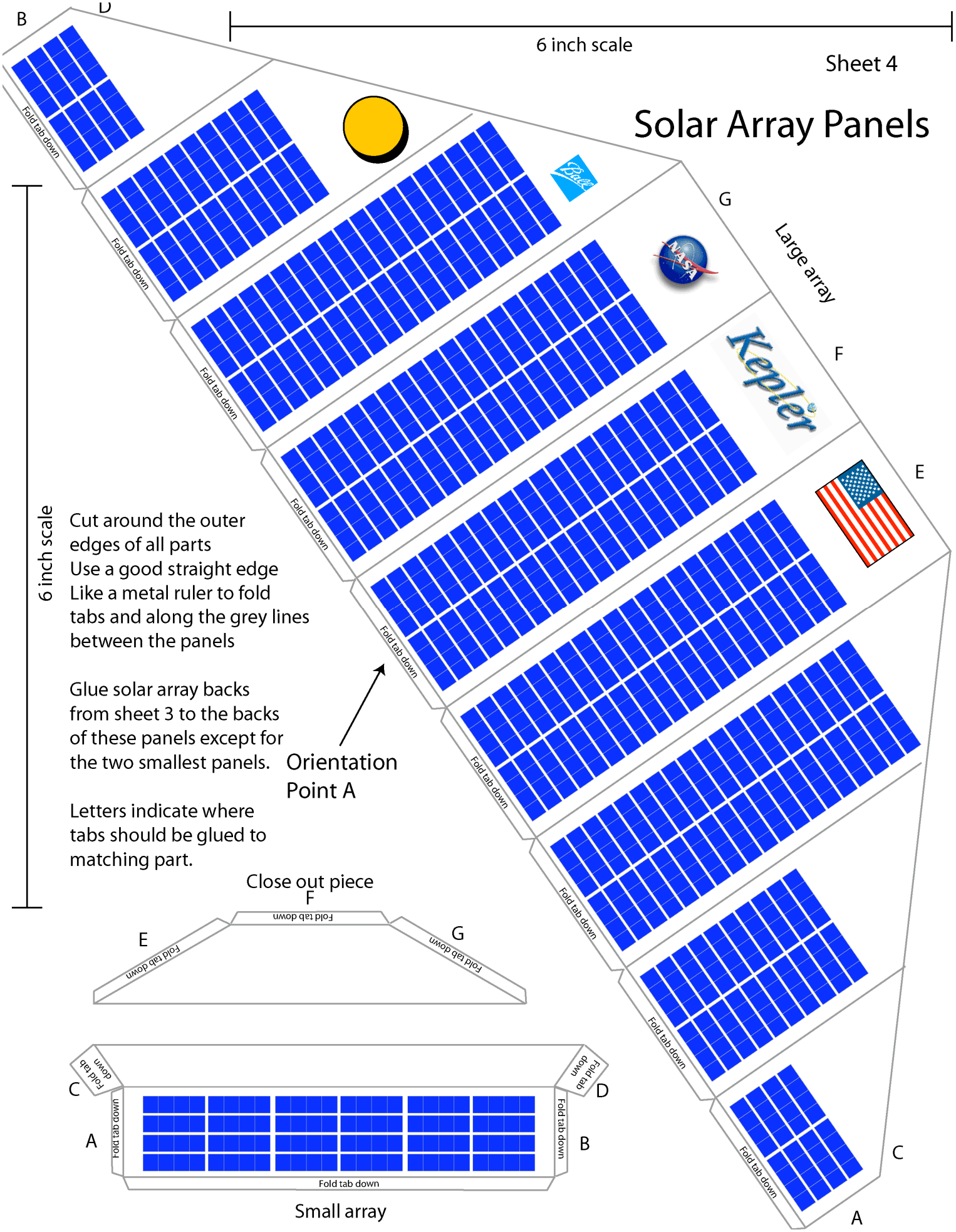
Cut around the outside only in these three antenna parts. Punch out holes. Save one hole punch.
In anntenna dish (C) , cut slit to center. Overlape to tick mark and glue to form shallow cone.
Cut tooth pick into three half inch lengths. Glue half inch lengths to three points in center of dish to form a tripod. Glue one hole punch on end of tripod.

6 inch scale

Solar Array Panels

6 inch scale

Sheet 4



6 inch scale

Cut around the outer edges of all parts
Use a good straight edge
Like a metal ruler to fold tabs and along the grey lines between the panels

Glue solar array backs from sheet 3 to the backs of these panels except for the two smallest panels.

Letters indicate where tabs should be glued to matching part.

Orientation Point A

Close out piece

Small array

Solar Array-Base Plate

Cut around outer edge and cut out center hole. Glue solar array from Sheet 4 to this part.

Focal Plane Spider Bracket

Cut out two focal plane brackets Cut on solid line to centers and 1/4 in from right edge. Apply glue only along region A. Fold on horizontal dotted line. Fold back end B to form a T. Apply glue to region B on both pieces. Glue region B from both pieces to form a cross as shown to the lower left.

OrientationPoint A

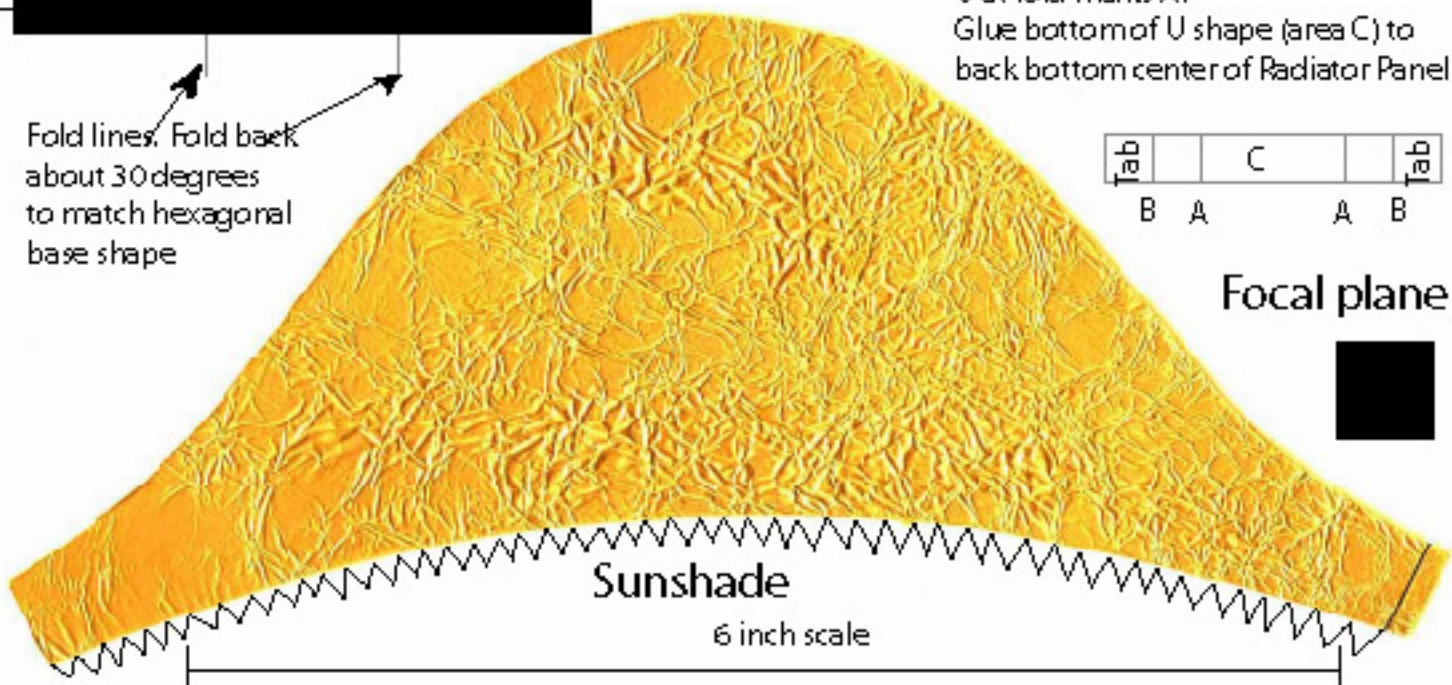
Radiator Panel

Radiator Support Bracket

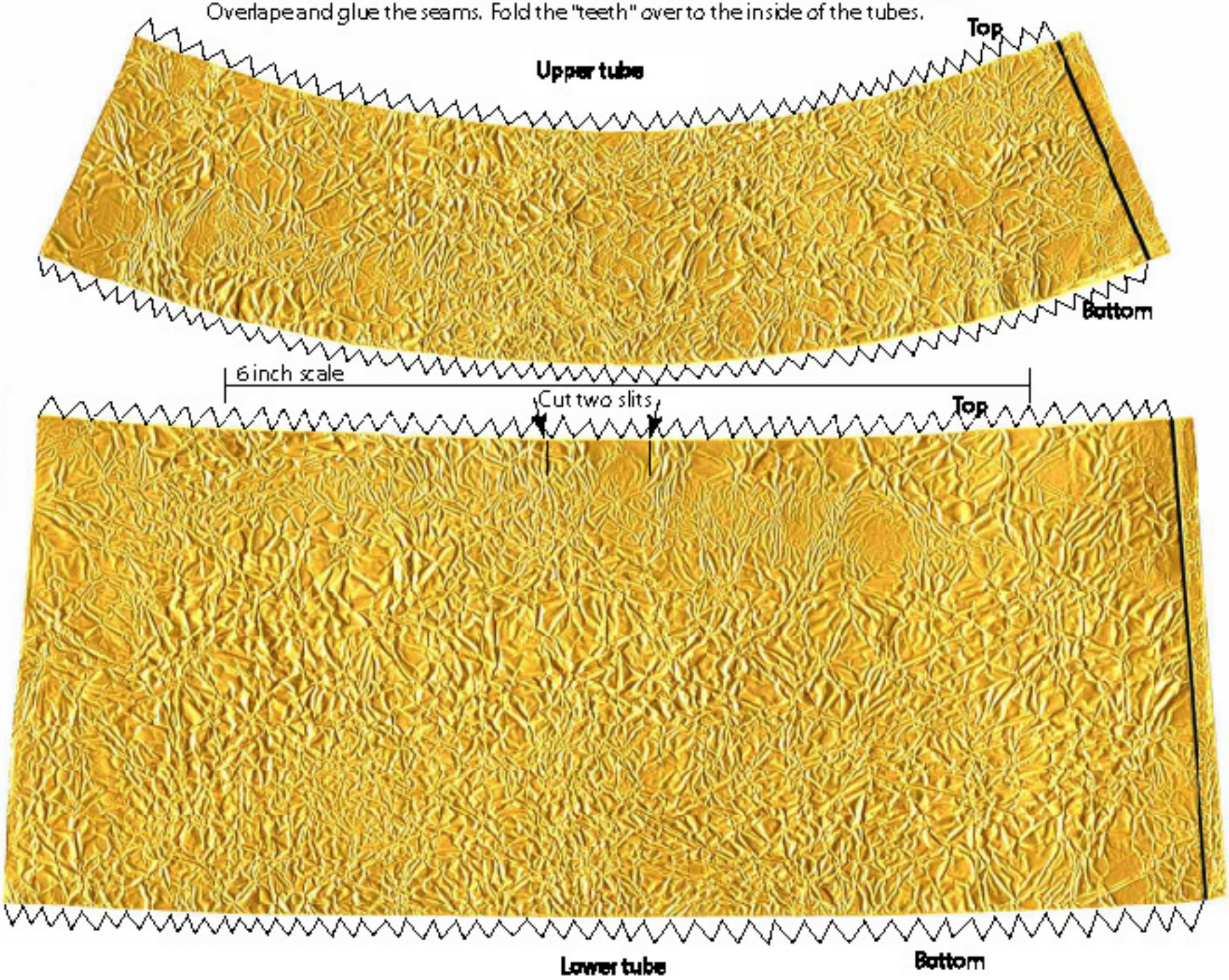
Cut around outside. Fold to make a U at fold marks A.
Glue bottom of U shape (area C) to back bottom center of Radiator Panel

Fold lines. Fold back about 30 degrees to match hexagonal base shape

Focal plane



Sunshade

6 inch scale

Cut out along the saw tooth edges and the two sides
Curve the parts by dragging them over the edge of a table until they form cylinders
Overlap and glue the seams. Fold the "teeth" over to the inside of the tubes.