



The model presented in this package is representation of the Starship Enterprise. It is not intended to be a careful scale rendition of the models used in the movies and television programs but rather a flying model that is easy to recognize. The general layout and markings represent the starship as it appeared in Star Trek IV "The Voyage Home". The aerodynamic layout for the model was conceived by Michael Blott. Michael's approach achieves a good flying platform that solves structural issues associated with an accurate representation of the actual starship models. He first published his design in the December 2001 issue of RC Microflight.

As presented in this package, the Starship Enterprise model is intended to be a model that is flown just for fun. It cannot compete in FAC No-Cal competitions as there is no actual full size counter part. The width of the model, comparable to wing span, is 12 inches. That is less than the normal FAC No-Cal wing span of 16 inches. This size was selected to make the model more convenient to handle.

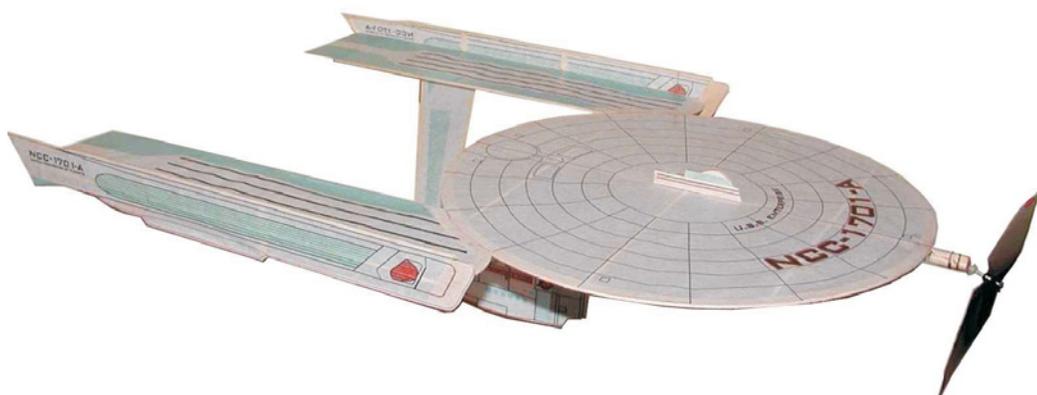
All of the graphic layouts are provided for printing on tissue. The model needs a fair amount of ballast on the nose to achieve the designated center of gravity location. As a result a plastic prop is recommended. The prototype model weighed 15.5 grams. It has a flying surface area of 104 square inches. It flies nicely and certainly looks the part in the air.

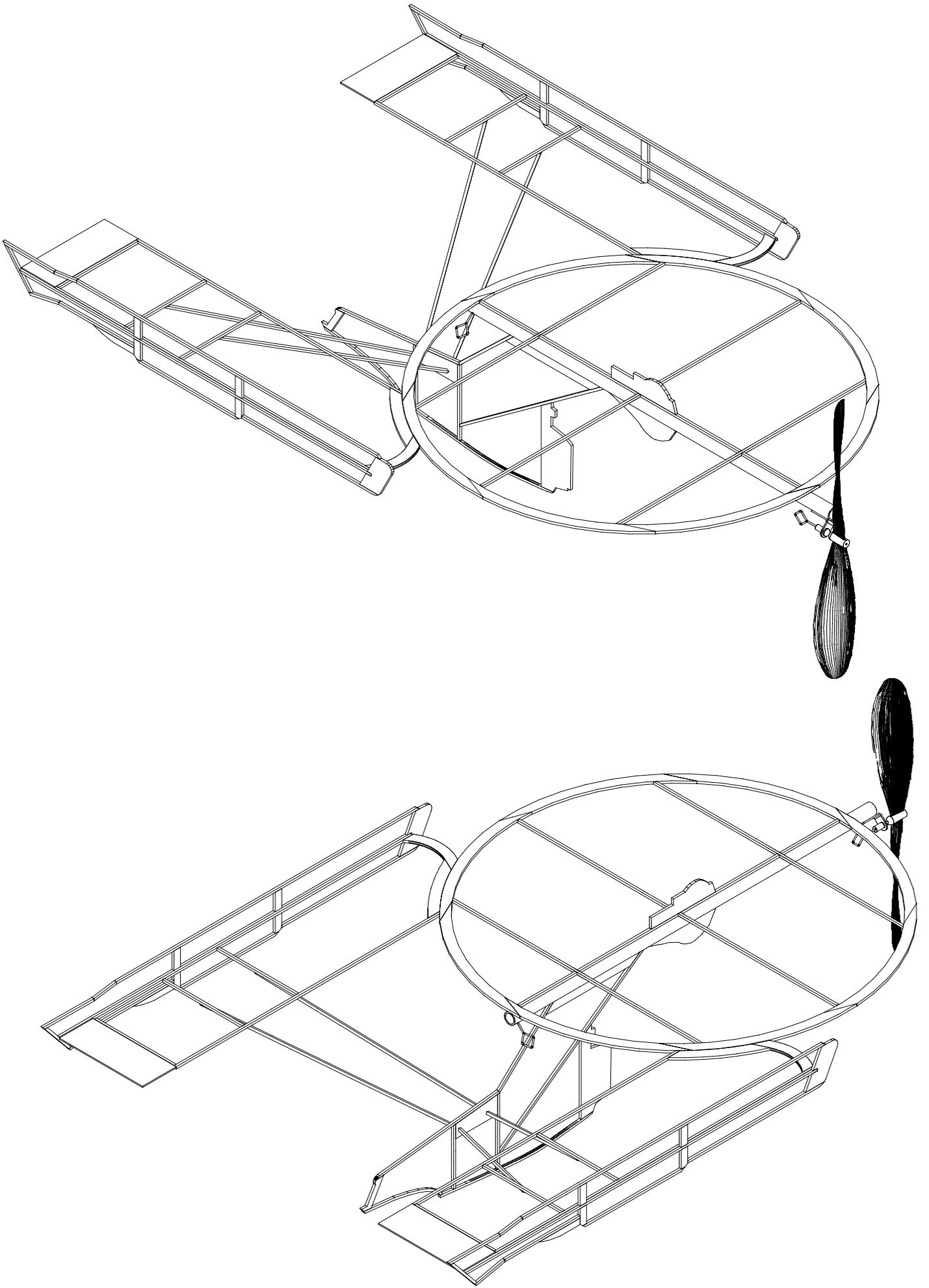
All of the sheets in the package are to be printed on U.S. Legal size paper, 8 1/2" x 14". **MAKE SURE PRINT SCALING IS TURNED OFF WHEN PRINTING THE SHEETS.**

The plans are printed on multiple sheets that need to be taped together. Alignment marks are provided to make it easier to tape each sheet of the plan together accurately. The parts that need to be cut from sheet balsa have been drawn to facilitate printing directly on balsa if you have a suitable printer. For the prototype the parts were printed on 1/32" balsa. The printed sheet was then laminated with a second blank sheet of 1/32" balsa to achieve the necessary 1/16" thickness. Spray contact cement was used as the laminating adhesive.

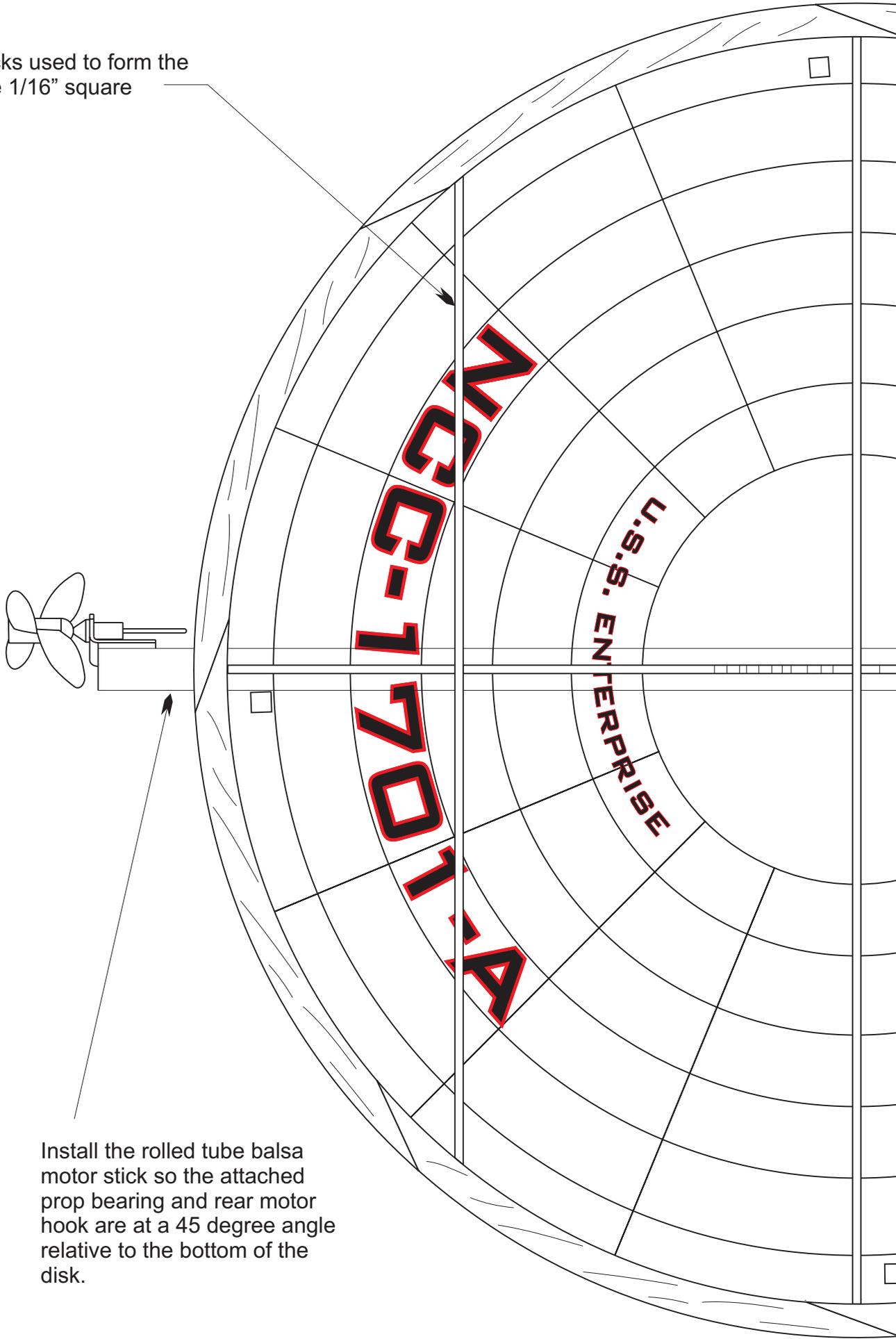
I have had a ball with my No-Cal Enterprise. I sure do hope you enjoy yours as much.

Paul Bradley

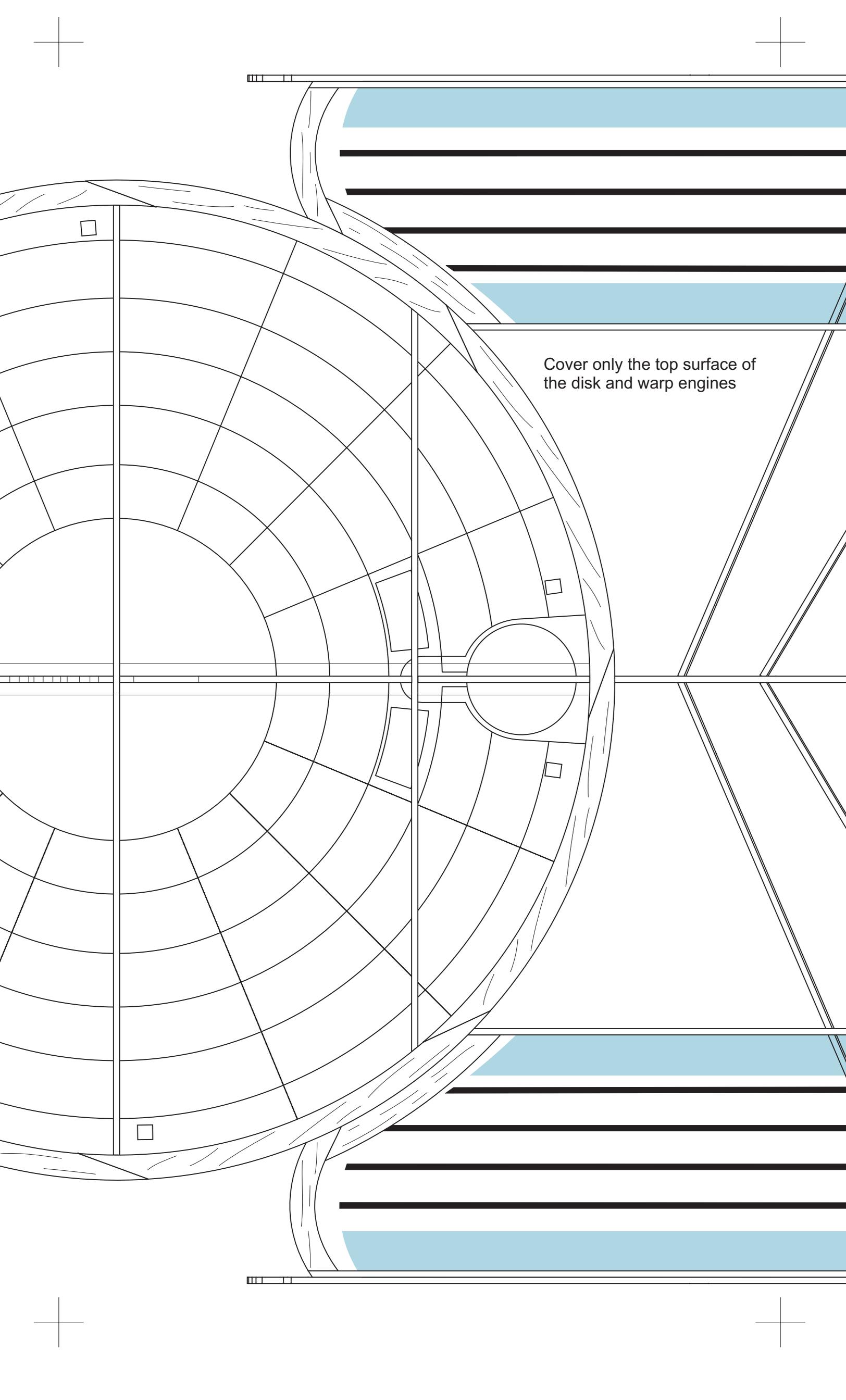




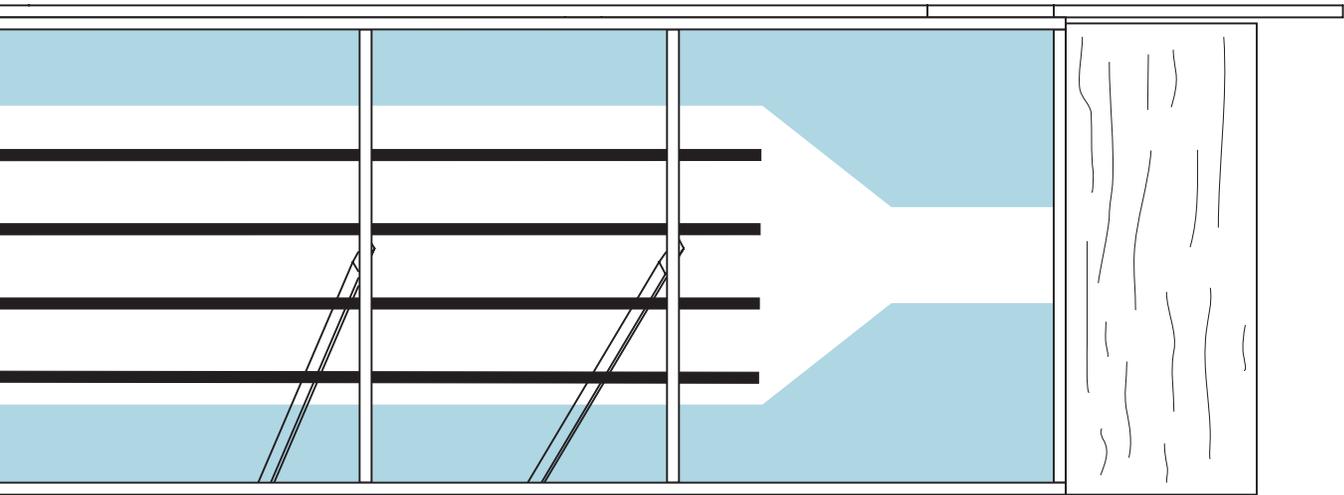
All balsa sticks used to form the structure are 1/16" square



Install the rolled tube balsa motor stick so the attached prop bearing and rear motor hook are at a 45 degree angle relative to the bottom of the disk.



Cover only the top surface of the disk and warp engines



Surface of
engines

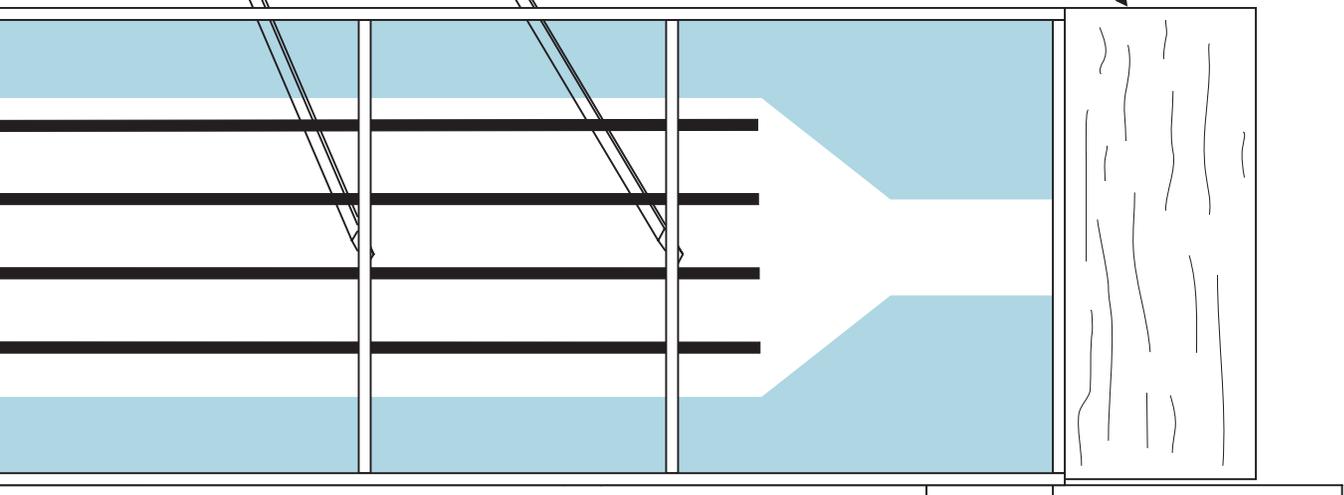
Cover the warp engine supports
after the model is assembled.

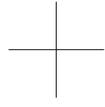
Star Trek U.S.S. Enterprise No-Cal

Derived from an R/C
model design by
Michael Blott
by Paul Bradley



1/32" balsa elevons used to turn
the model. Bend the elevon that
will be on the inside edge of the
turn up and the other down an
equal amount.



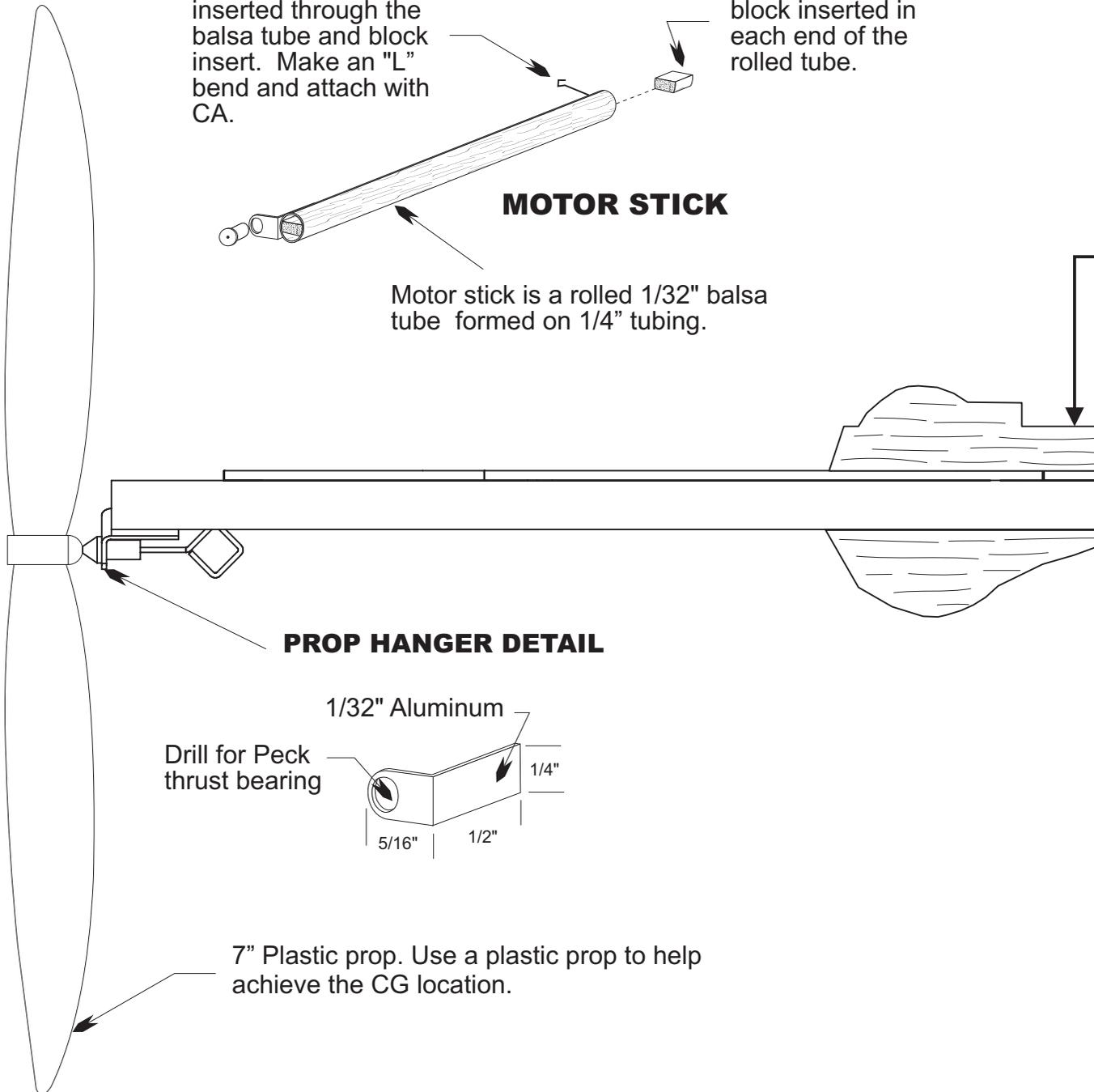


Rear hook is .032 wire inserted through the balsa tube and block insert. Make an "L" bend and attach with CA.

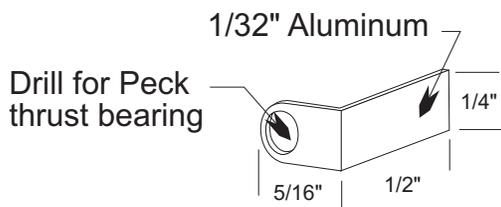
1/8" thick x 1/2" long block inserted in each end of the rolled tube.

MOTOR STICK

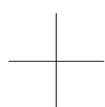
Motor stick is a rolled 1/32" balsa tube formed on 1/4" tubing.



PROP HANGER DETAIL



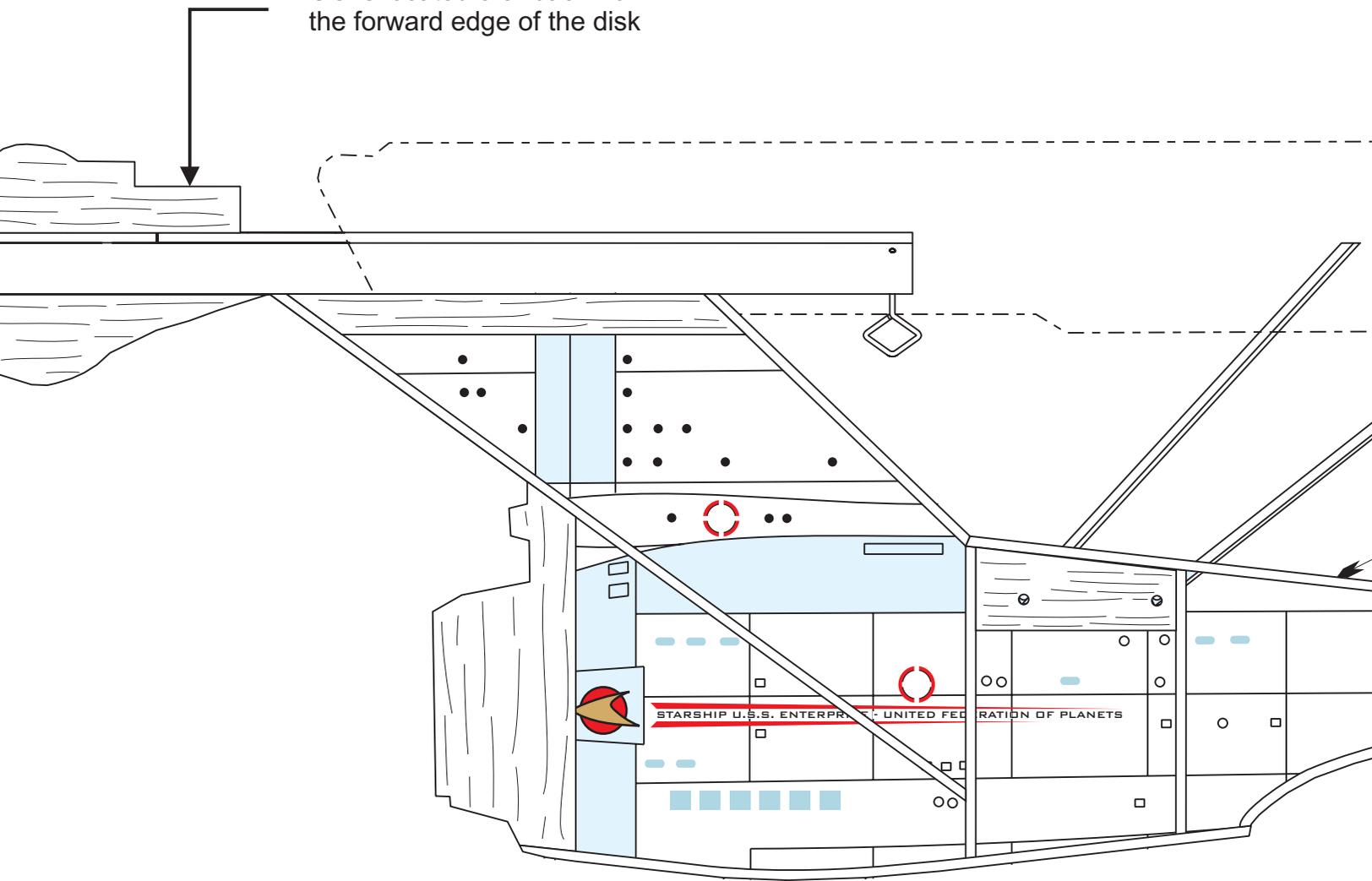
7" Plastic prop. Use a plastic prop to help achieve the CG location.

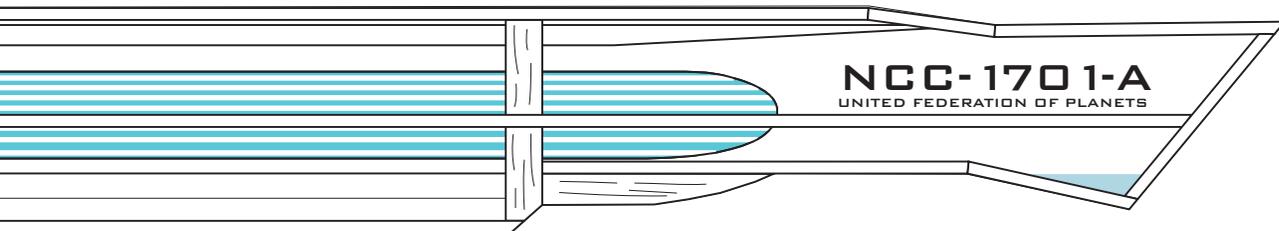


2" long
in
e

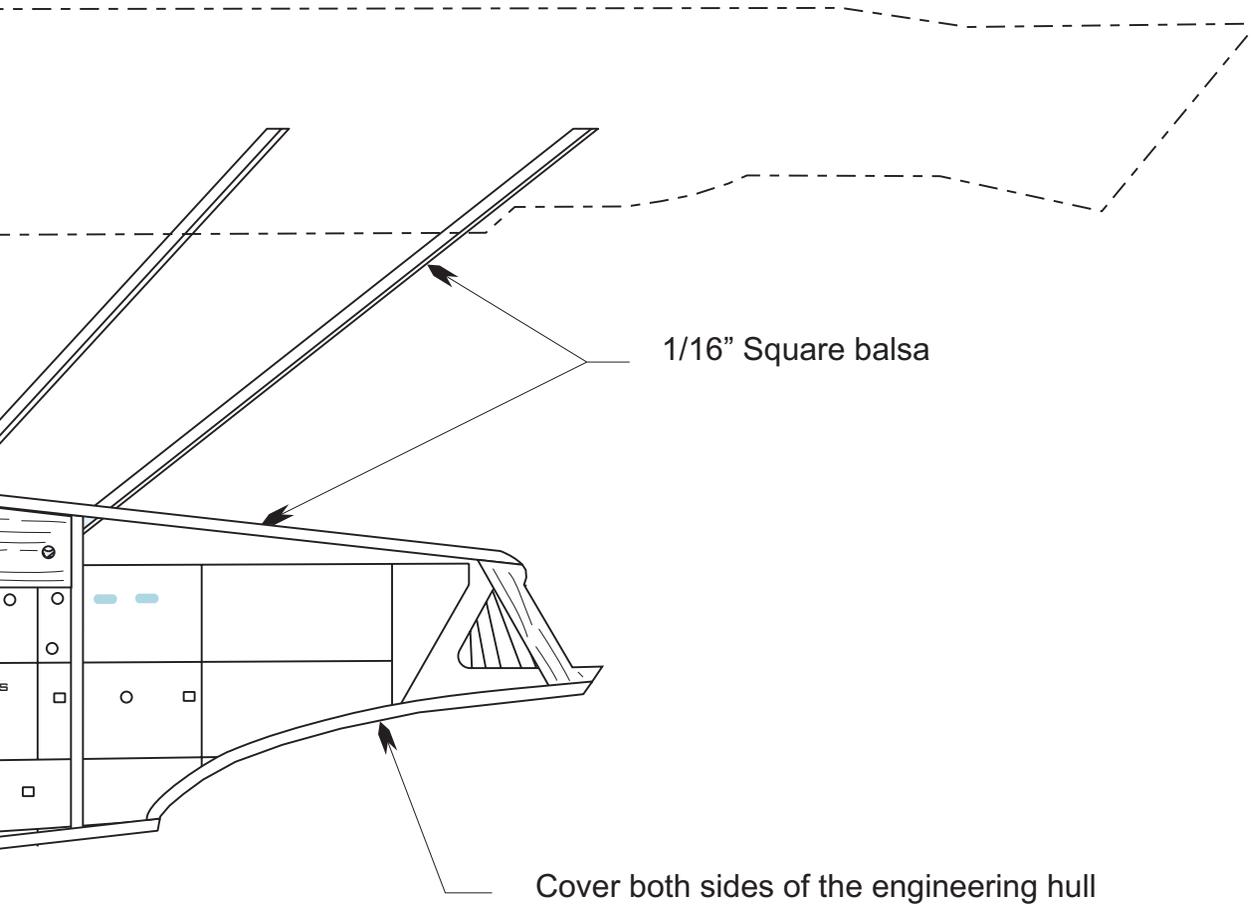


CG is located 5.5" back from
the forward edge of the disk



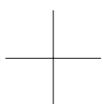


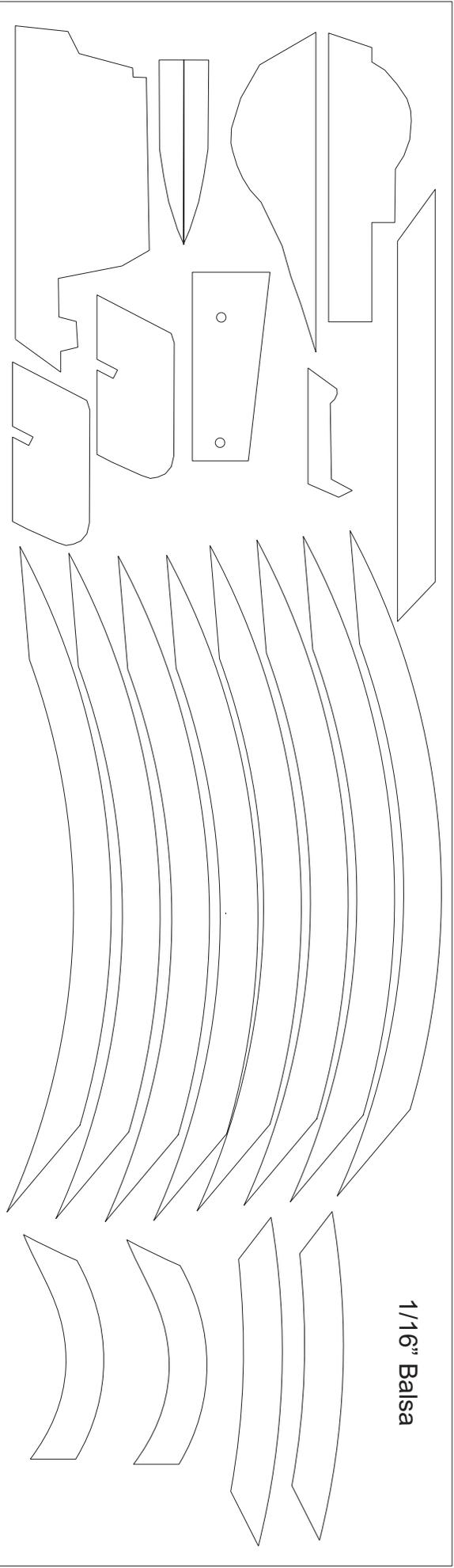
Make two warp engine verticals.
Cover the surface that faces to
the outside.

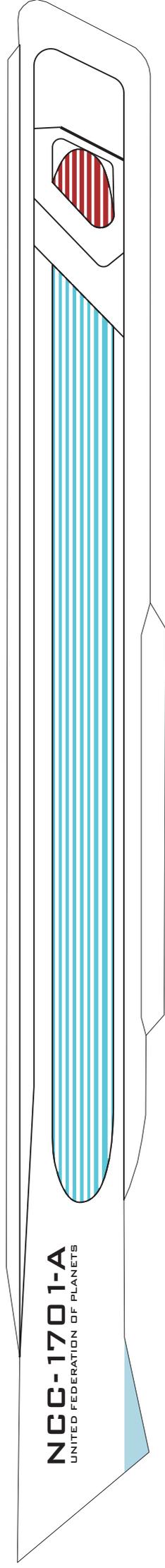
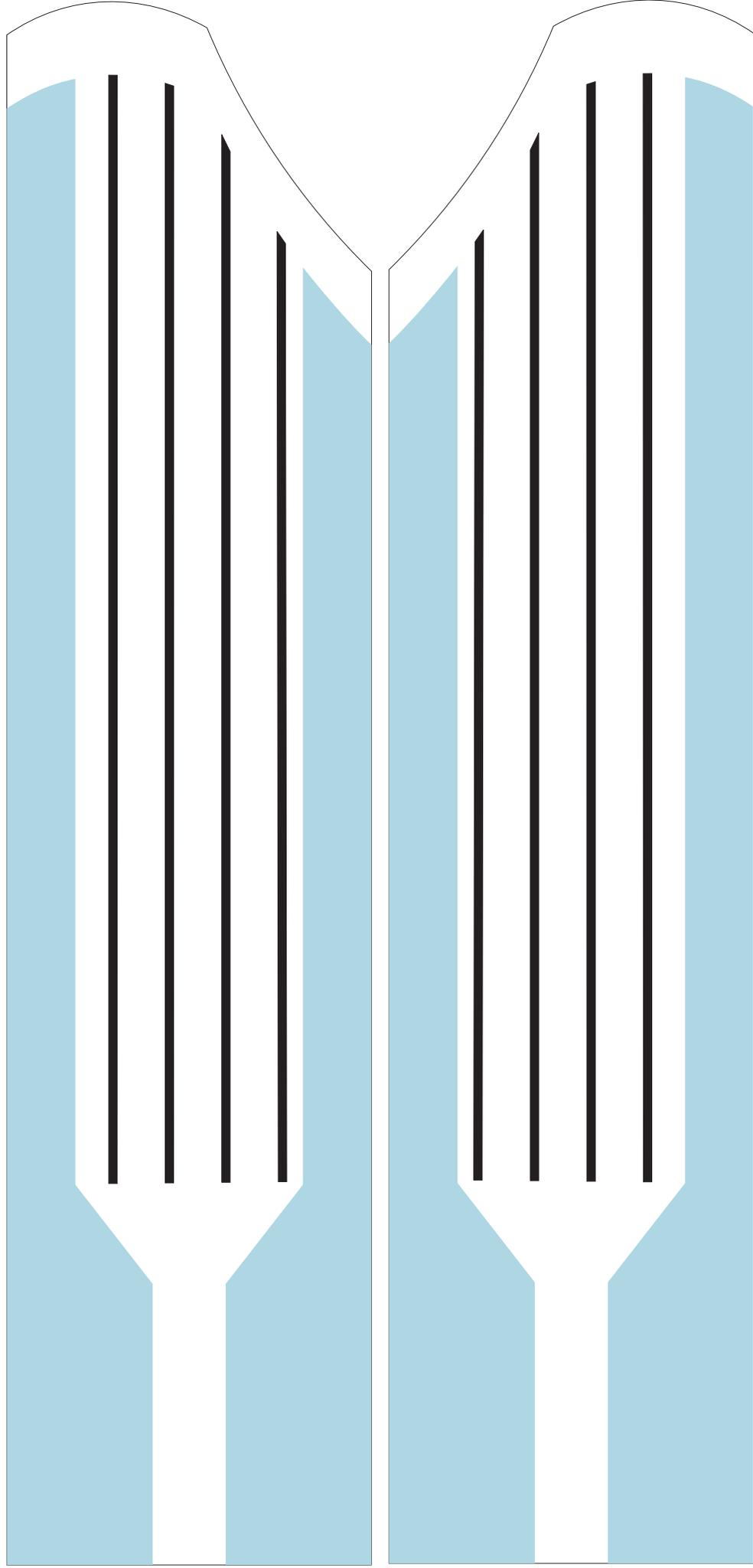
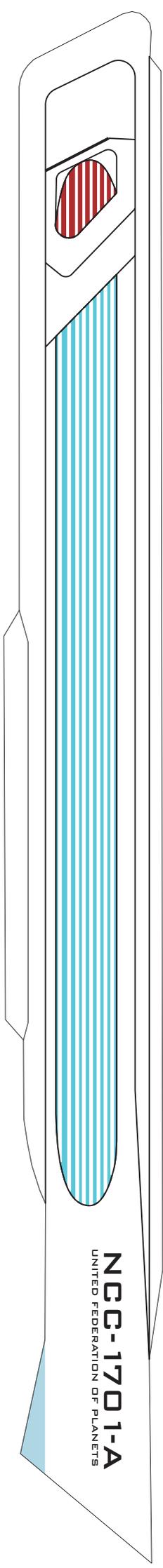


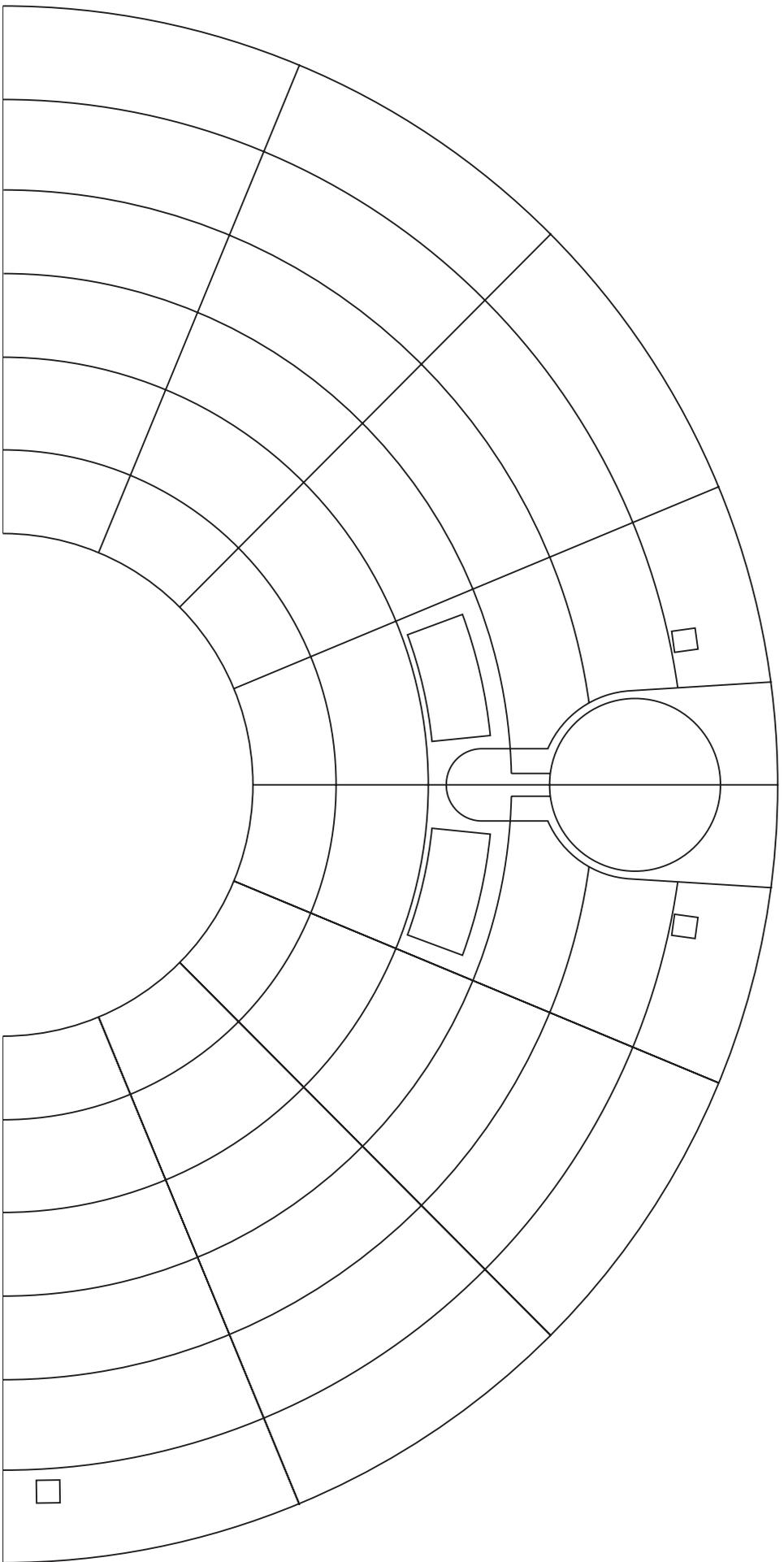
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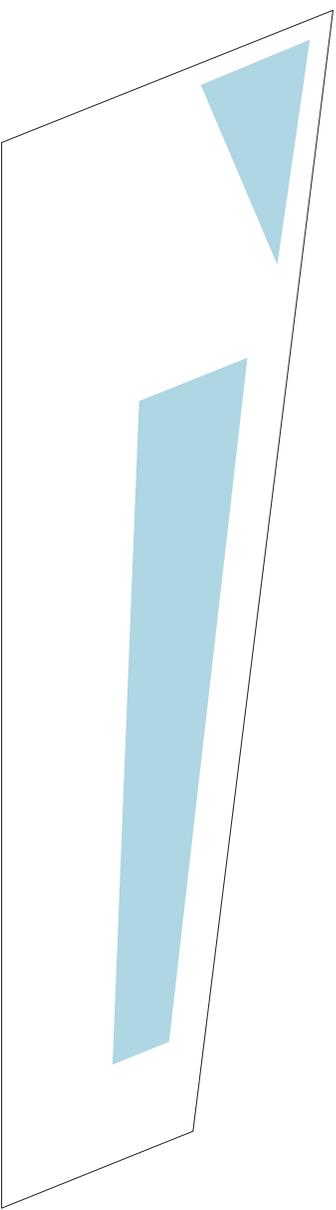




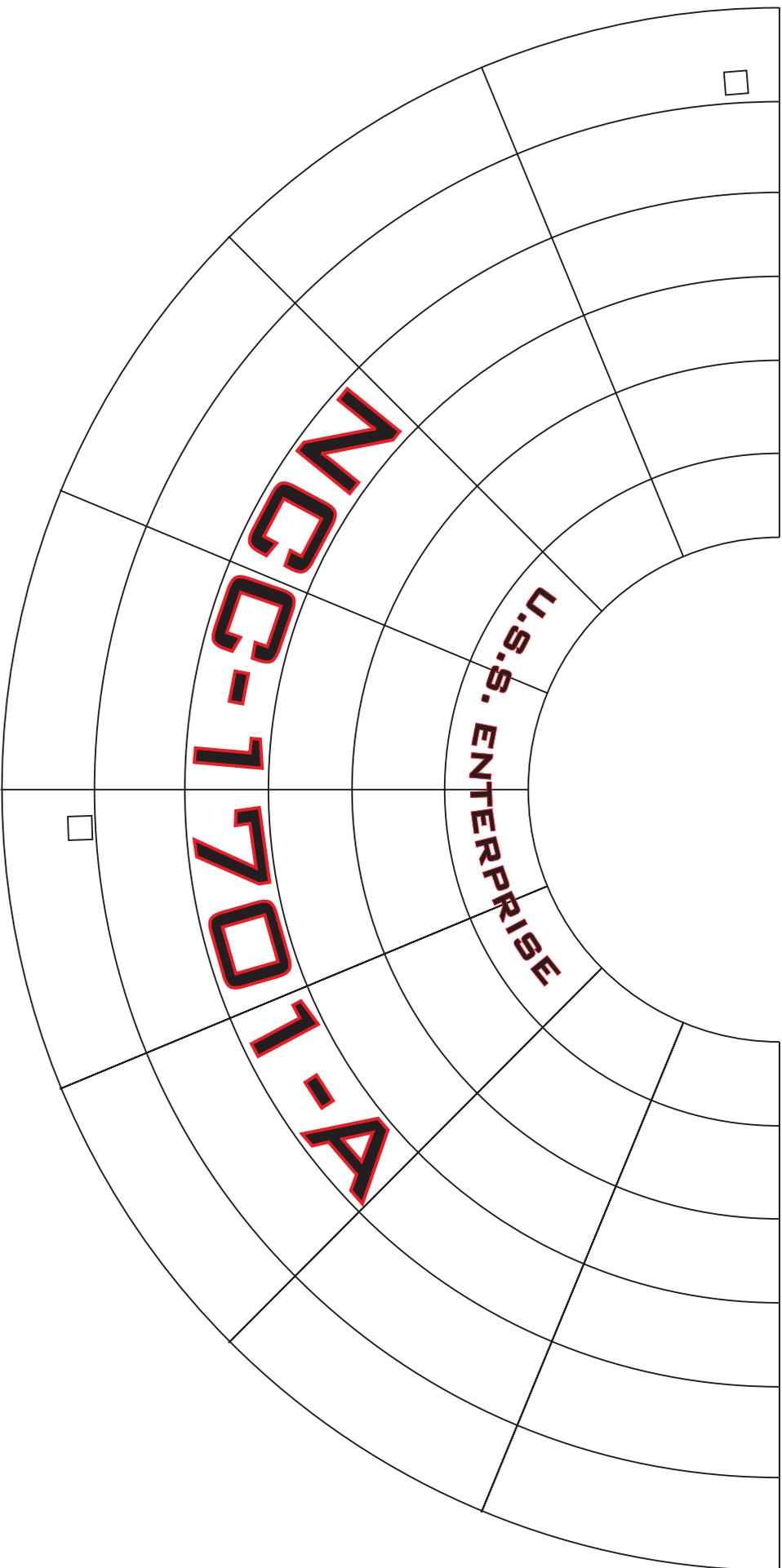




Rear half of the disk



Warp engine support covering



Front half of the disk

