

TRIEMME

A sport rocket plan by Kevin Johnson, NAR 77083

The triremes of ancient Rome plied the waters of the Mediterranean Sea powered by three rows of oars. The Trireme class star cruisers follow the trade routes of interstellar space using three hyper-motive engines housed in the pods arrayed around the aft of the ship.

To build a model of the Trireme you will need to gather the following parts:

Tubes:

BT60 - 4 inches
BT50 - 10 inches
BT 20 - 3x 10 inches
BT 20 - 2.75 inches

Nose cone:

PNC 60 (Big Bertha style)
BNC 20 - 3 (Optional for pods)

Transition:

TA 5060 - 2 inches
(can be ordered from BMS)

Centering Rings:

CR2050 - 2

Fin Stock:

3/32 inch balsa or basswood

Misc:

Launch lug
Shockcord
12 inch chute
Nose wt (as needed)
Motor hook
Screw-eye

Build your motor mount from the 2.75" BT20, motor hook, and the 2 centering rings. Glue the mount into the BT50 so the ends are even. Mark the BT50 for 3 fins. Cut out the pylons from 3/32" fin stock and glue them to the marked lines, 1" from the end of the tube. After the glue on the pylons has dried, glue one of the 10" BT20's on each one. Cut out the fins and glue them to the pods with the trailing edge even with the aft end of the tube.

Glue the BT60 tube to the transition. Screw the screw-eye into the shoulder on the other end and remove. Squirt glue into the hole and then reinsert the screw-eye. Cut your launch lug into 2 parts, each 1/2" long. Glue one lug on the BT60 even with the aft end. Glue the other lug on one of the pylons so that the 2 lugs line up. Use your favorite shock cord

attachment technique, and then tie the free end of your shock cord to the screw-eye. You can either glue your nose cone to the BT 60 or use tape to make a payload bay. Prep the rocket and perform a swing test, adding nose weight as needed for stability.

Paint your Trireme in contrasting colors and set sail! ✨

