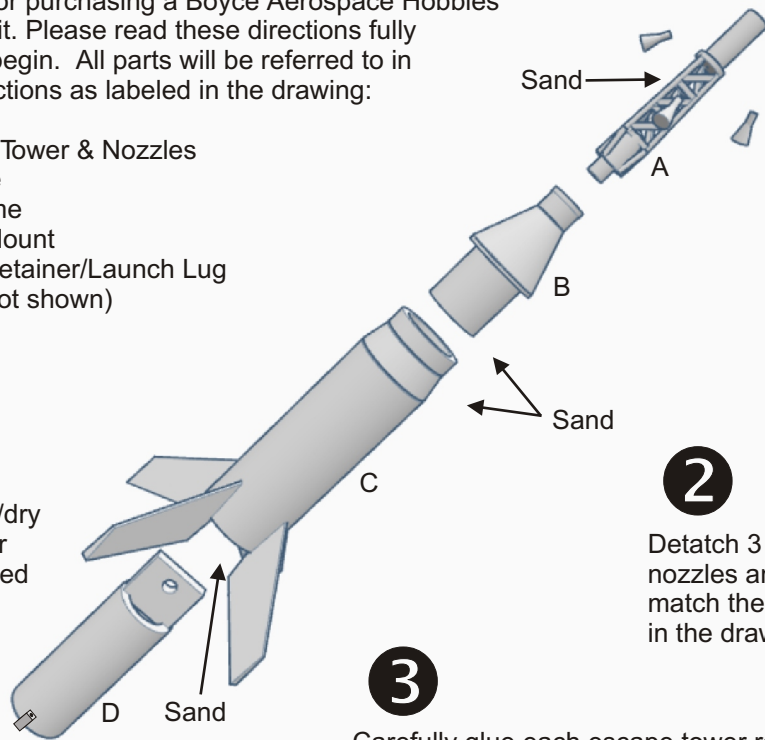


# 1/100th Scale Little Joe I Flying Model Rocket

Thank you for purchasing a Boyce Aerospace Hobbies Little Joe I kit. Please read these directions fully before you begin. All parts will be referred to in these instructions as labeled in the drawing:

- A- Escape Tower & Nozzles
- B- Capsule
- C- Air Frame
- D- Motor Mount
- E- Motor Retainer/Launch Lug (not shown)

400 grit wet/dry sandpaper recommended

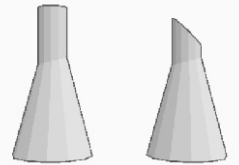


**1**

Carefully trim any flash or minor defects from the escape tower using a sharp exacto knife. Sand the escape tower carefully using fine wet /dry sandpaper until the tower is ready for paint. Sand the capsule shoulder and the inside of the air frame if needed to get a smooth slide fit. Test fit a 13 mm motor and sand the inside of the motor mount until the motor slides in smoothly. Sand the inside rear of the air frame until the motor mount fits inside snugly. Sand the capsule until smooth. Sand the airframe and fins until smooth. TIP: Dry sand first then follow up with wet sanding to achieve a smooth finished surface.

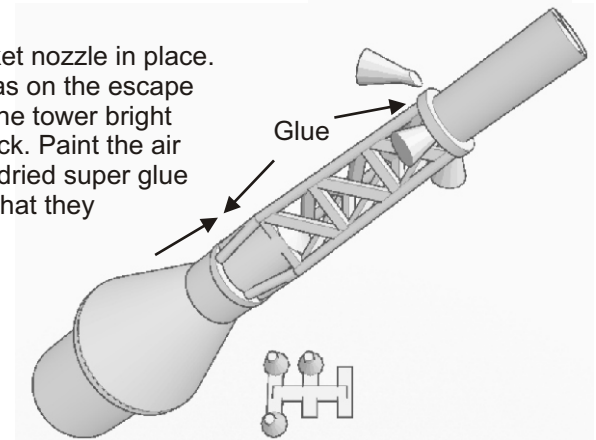
**2**

Detach 3 of the escape tower rocket nozzles and sand the upper ends to match the 30 degree angle shown in the drawing.



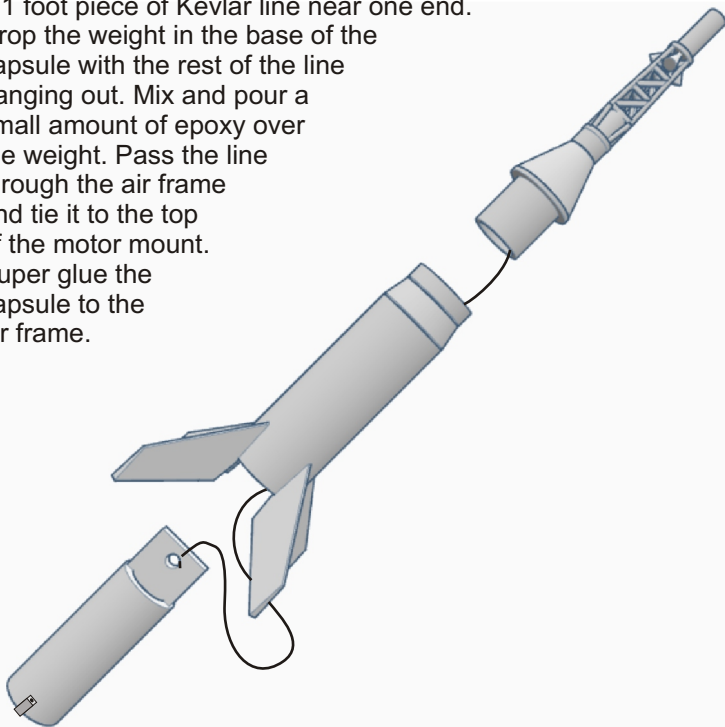
**3**

Carefully glue each escape tower rocket nozzle in place. After the glue dries sand any final areas on the escape tower that needs attention then paint the tower bright red. Paint the mercury capsule flat black. Paint the air frame bright silver. After the paint has dried super glue the tower to the capsule making sure that they stay aligned vertically.



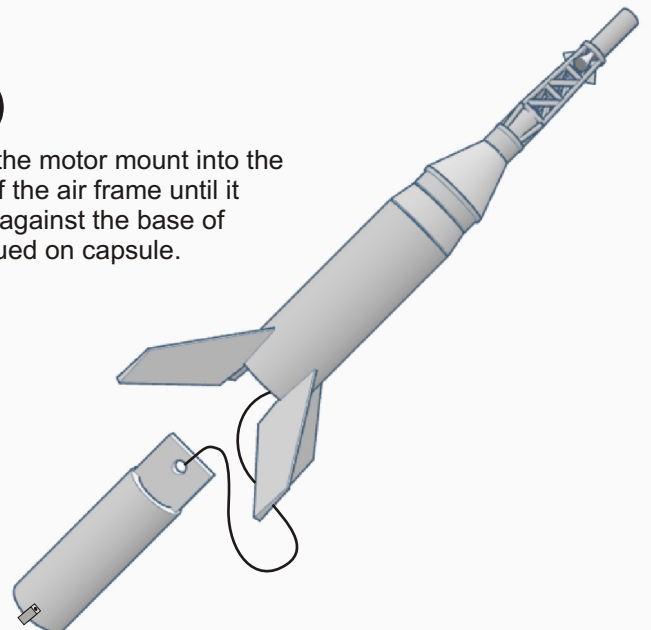
**4**

Attach a small lead splitshot fishing weight to a 1 foot piece of Kevlar line near one end. Drop the weight in the base of the capsule with the rest of the line hanging out. Mix and pour a small amount of epoxy over the weight. Pass the line through the air frame and tie it to the top of the motor mount. Super glue the capsule to the air frame.



**5**

Slide the motor mount into the rear of the air frame until it stops against the base of the glued on capsule.



# 1/100th Scale Little Joe I Flying Model Rocket

## DETAIL THE MODEL AS SHOWN BELOW:

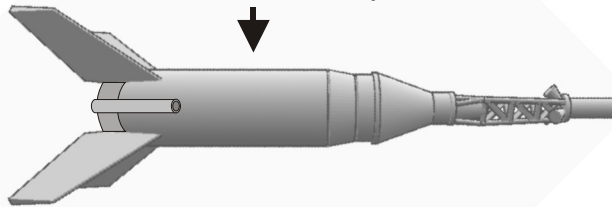
The model should be detailed as shown in the photos below.



## IMPORTANT!

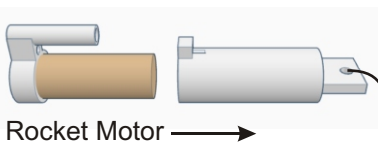
Make sure that your rocket's center of gravity is at or forward of the position shown below (with rocket motor in place). Add additional weight to the inside of the capsule if needed. Failure to do so will result in a potentially dangerous unstable flight.

CG-Center Of Gravity

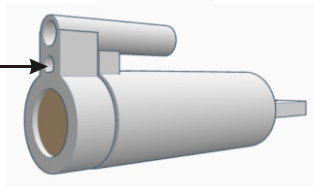


### Flight Prep:

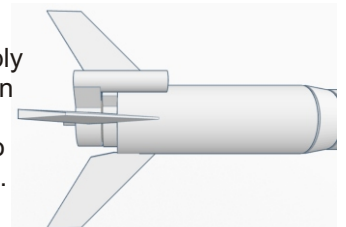
Slide a rocket motor into the motor retainer. Slide the motor and retainer assembly into the motor mount and carefully screw in the supplied retention screw. Slide the entire unit into the airframe until it is fully inserted. If the motor mount is too loose add small strips of tape to its sides until it will stay in place but still come out when ejected. At ejection the model will tumble recover.



Retainer screw goes here



Motor assembly should slide in with enough resistance to stay in place.



Recommended motors for this model are: Estes 13mm 1/2A3T-4 or A3T-4. Estimated altitude for these motors are 218 feet and 493 feet respectively. Use a software program such as ROCKSIM to model the rocket's flight if higher performance motors are used. Please follow all local laws and the NAR Model Rocketry Safety Code when flying this model. Fly safe and have fun!