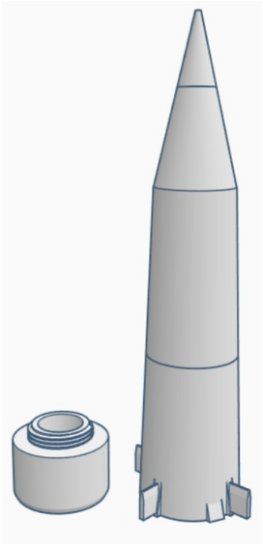
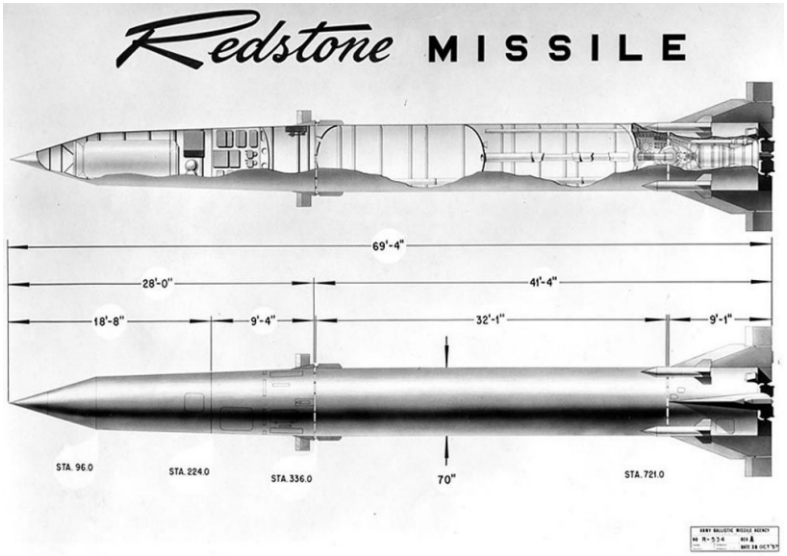
Redstone Missile Nose Cone (ST-20)

Thank you for purchasing a Boyce Aerospace Hobbies Redstone Missile Nose Cone. Please read these directions fully before you begin. All parts will be referred to in these instructions as labeled in the drawing below. Visit us at boyceaerospacehobbies.com



Redstone Missile Nose Cone

Screw on Shoulder



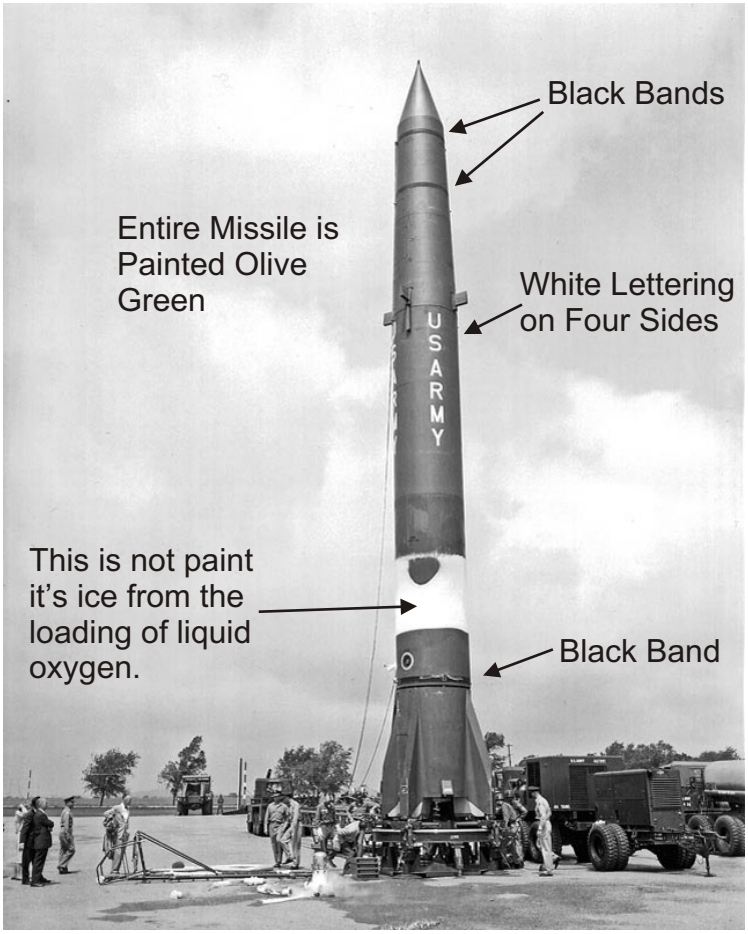
Instructions: The donor Mercury Redstone kit's body tube needs to be cut down to a total length of 13.71 inches. The rest of the booster can be built per the instructions with the exception of the launch lugs. The lugs will no longer require the stand offs.

Finish the 3D printed mose cone as shown in the following youtube video:

https://www.youtube.com/watch?v=0vgynnYzo08

This video will show you the entire preparation process to ready your parts for paint. Make sure not to primer or paint the nose cone's shoulder as this will prevent it from smoothly sliding off the body tube at ejection. You should sand the shoulder until it is a smooth sliding fit with the body tube.

Whe the entire model is ready for paint, spray it Army olive green and detail as shown in the image to the right.



Prior to flight:
Attach all recovery system parachutes and install your motor of choice. Perform a swing test of the model to determine if it will fly in a stable manner. If the model tumbles or flies backwards add nose weight into the hollow of the screw on shoulder (clay) until the model is stable in the swing test.

Now weigh the model and run a altitude prediction program to determine proper motor and delay selection. If you used an Estes C6-5 as your starting point you may find that the model requires at least an Aerotech 18mm D motor to fly with the additional nose weight required. Happy flying!