

Terrier-Improved Malemute suborbital sounding rocket (March 1, 2016)



What is a Sounding Rocket?

During the 30 minutes NASA's sounding rockets are airborne researchers have more than enough time to collect important scientific data and conduct engineering tests.

Sounding rockets take their name from the nautical term "to sound," which means to take measurements. Since 1959, NASA-sponsored space and earth science research has used sounding rockets to test instruments used on satellites and spacecraft and to provide information about the Sun, stars, galaxies and Earth's atmosphere and radiation.

NASA currently uses 15 different types of sounding rockets. They come in a variety of sizes ranging from the the single-stage Super Arcas which stands at 7 feet to the largest, the four-stage Black Brant XII which stands 65 feet tall.

The development of many NASA missions like the Compton Gamma Ray Observatory (CGRO) and TRACE satellite has been based on sounding rocket investigations.

In most cases, after the payload has re-entered the atmosphere, it is brought gently down to Earth by way of a parachute and is then retrieved. By recovering parts of the payload, it can be refurbished and flown again, resulting in tremendous savings.

Scientific payloads are carried to altitudes from 30 miles to more than 800 miles. And although the overall time in space is short (typically 5 to 20 minutes), the experiment is perfectly positioned to carry out its mission successfully.

Data is often collected and returned to Earth by telemetry links, which transfer the data from the payload directly to researchers on the ground. This is similar to how you pick up tunes on a radio.

Because of its low cost and short lead time, sounding rocket payload testing is invaluable to students conducting graduate work in scientific fields. High school students can fly experiments on a sounding rocket through the NASA Student Involvement Program. Through the program, students work with NASA to develop the experiment and participate in the launch.

Also, scientists are able to accomplish their research at a specific time and place, because the sounding rockets can be launched from temporary sites all over the world, including aircraft carriers.

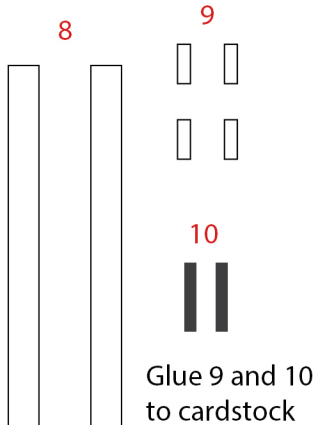
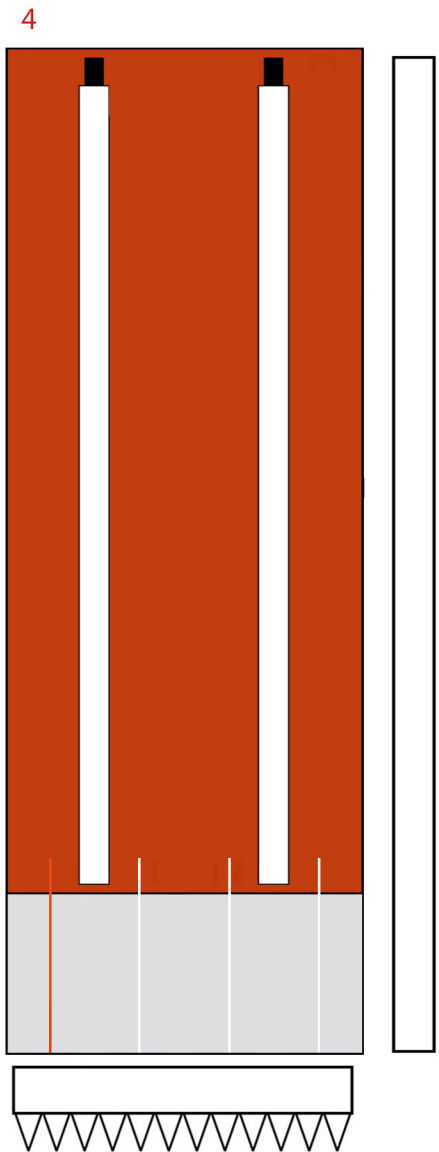
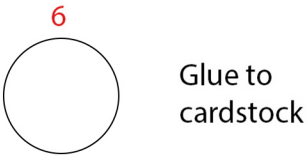
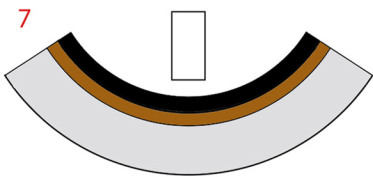
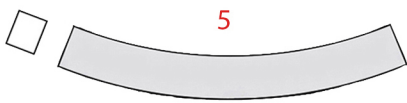
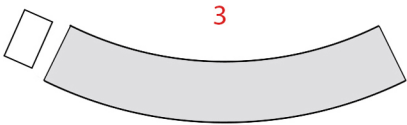
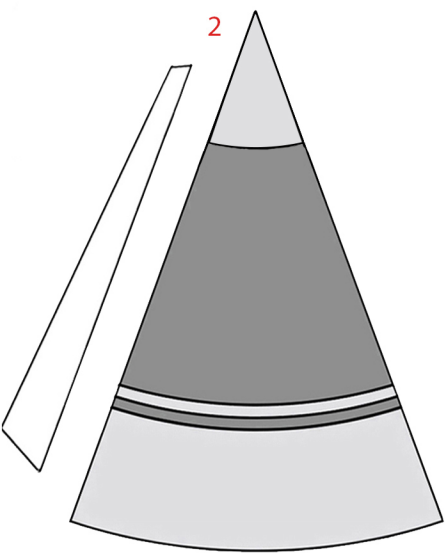
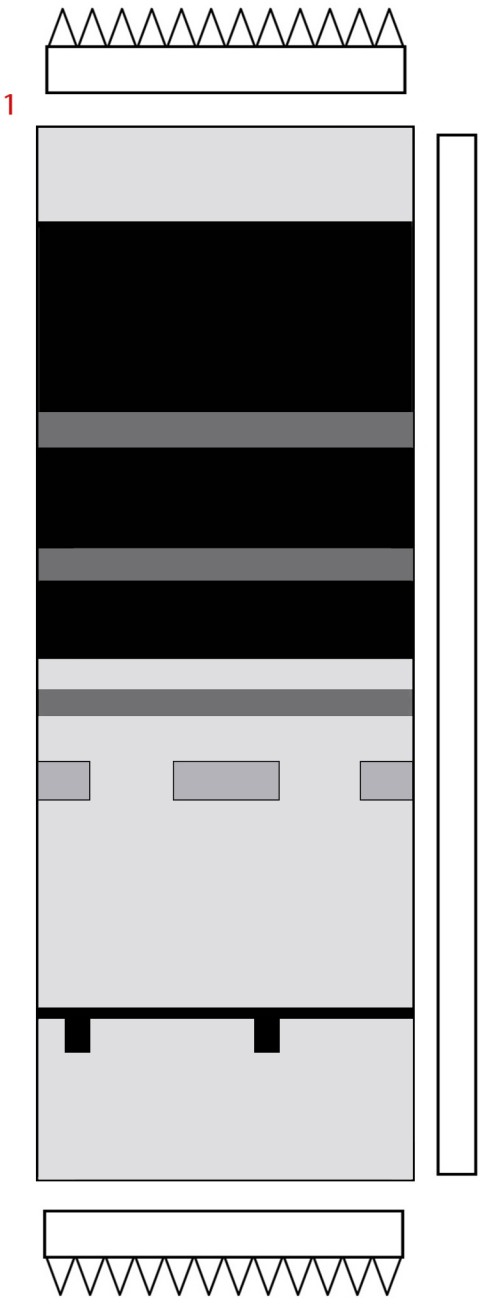
This Model Rocket...

The Terrier-Improved Malemute is a two stage sounding rocket with a Terrier first stage and Improved Malemute second stage. This vehicle can reach altitudes of about 600 km. Payloads weighing from 400 to 1200 pounds can be flown.



2016

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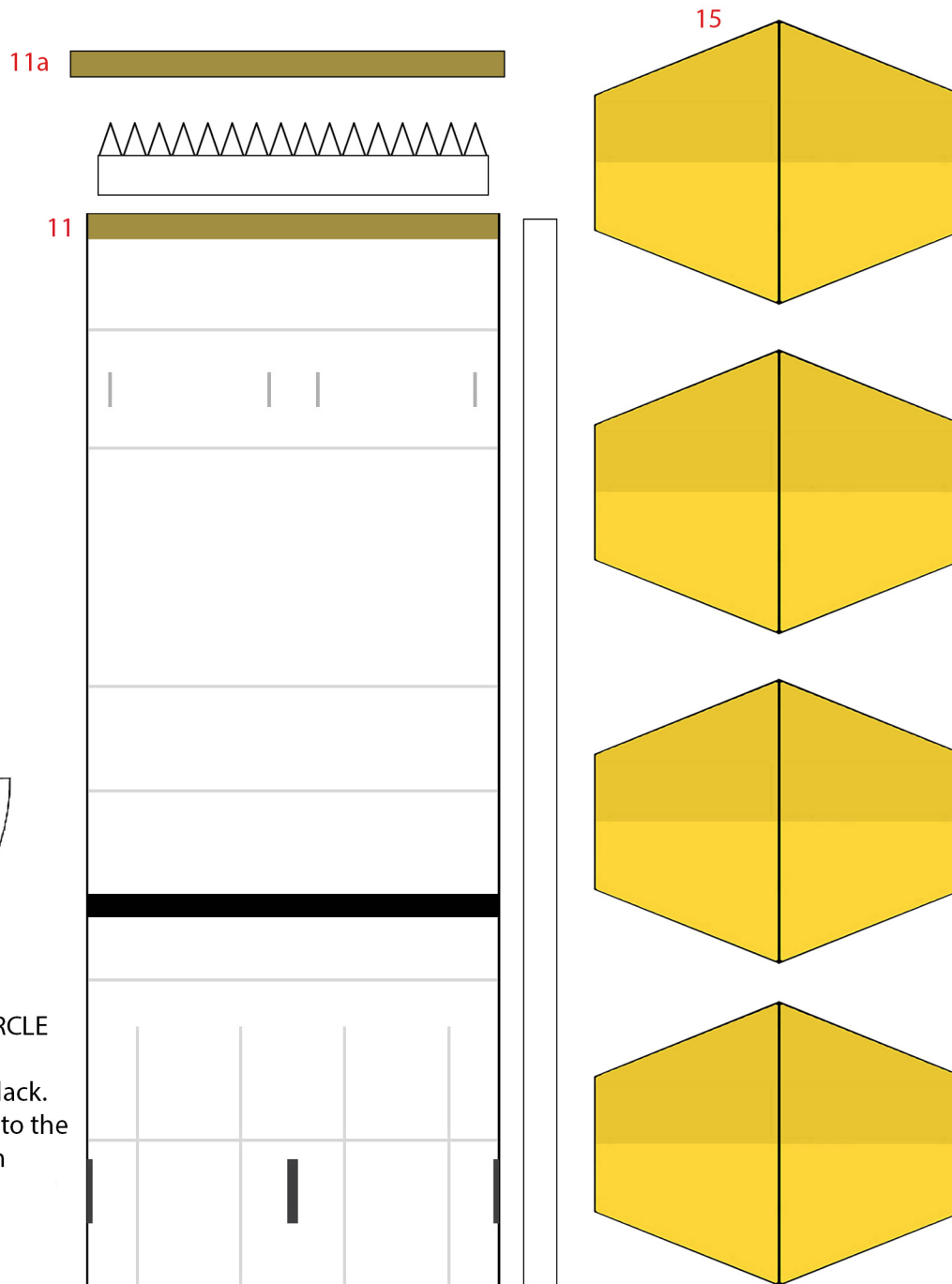
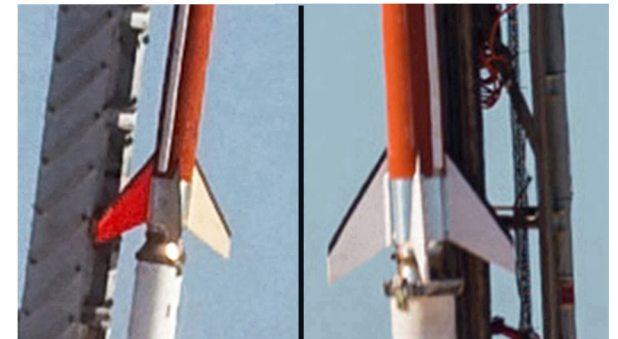


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After examining several photos of this particular sounding rocket, I concluded that one of the upper fins is red on both sides.



Remove the BLACK CIRCLE from 13.
Color backside of 14 Black.
Roll 14 to a cone, glue to the BACKSIDE of 13 for an embedded nozzle

