

NAR WINTER CONTEST

Rocketry of Central Carolina Charlotte, NC
www.rocketrycarolina.org



NAR Winter Contest 2013 UPDATED 12/13/2012

(Please note that the contest information below has been updated to correct errors in the initial publication.)

Some of you participated in our 'Dry Run' contest last summer where ROCC hosted a non-sanctioned NAR type contest to try and work out any bugs we might have in running an official contest. Well, its time to put our experience to the test!

This February, we're going to be holding an official contest. There is a ton of information about contests at www.nar.org and the rules are available for download or on-line viewing in 'the pink book' <http://nar.org/pinkbook/index.html>. Please review the pink book for the detailed rules of the contests. The event is to be held on the weekend of February 16th and 17th, weather pending of course. If we fly that weekend, the contest is on. If we are delayed, the contest will be held at the next launch.

The classes for this event are:

B-Cluster Altitude. Any rocket that can normally be flown by the safety rules is allowed to fly with 5X B impulse engines in a cluster configuration. You must use 5 engines, per the NAR rules and they do have to all be of the same type and light at the same time. Scoring is based on the highest altitude. (You may fly this event 2 times with the highest altitude being the official score. You do not have to fly more than one time, however.)

Not many large cluster kits are available, but making your own is very easy. Check out the Estes Ranger plans on the JimZ site for a method of mounting a cluster that doesn't even require centering rings (specifically page 5 step #4). <http://www.spacemodeling.org/jimz/estes/k-06.pdf>. Of course, you can make or buy cluster centering rings or go with tubes mounted to the outside of the rocket as well. To keep flight costs down for this competition, you might want to go in with a friend and buy a bulk pack of engines, such as the Estes B6-4 or Quest B6-4 value packs or look for the Hobby Lobby 40% off coupons.

A list of allowable altimeters is available in the back of the pink book. If you have one of these altimeters you can fly it in the contest. If not, 3 Jolly Logic Altimeter One's will be available to use for the altitude events of the contest. The Altimeter One measures 0.47" x 0.64" x 1.93" and weighs 0.24 oz. It can be tied to the shock cord of the rocket and fits into BT-20 or larger body tubes. Three holes 1/16" in diameter minimum must be added to the bodytube/payload bay to sense altitude.

1/2A Boost Glider: In this competition, you must use a 1/2A motor to launch a rocket that releases a glider which is timed. In the original issue of this flier, a maximum flight time of 90 seconds was stated, however this only applied to 'multi-round' events. This event will be flown with a maximum of 2 flights. The duration of each flight will be added together to obtain the total score for the event. Rockets with flexible wings that deploy are not allowed in this event.

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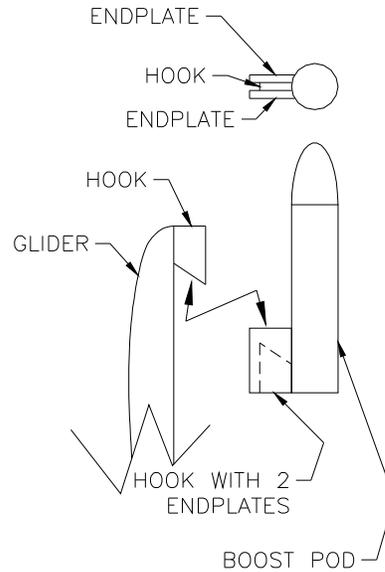
There are a lot of plans available at <http://nar.org/competition/plans/boostglide.html> or you can 'roll your own.' There are a few kits available as well, such as the Semroc Swift or Estes Tercel.

For official NAR contests, you must be a NAR member, so please bring your NAR card and clearly mark your NAR number on your models. Lastly, please feel free to review the pink book and suggest other competitions you'd like to fly in at a future date. Choosing these events is kind of intimidating with no feedback from potential fliers.

E-mail comments and/or questions to rocc_contest@tshouston.net.

Sandy (NAR Adviser)

Boost Glider connection concept



A few possible cluster layouts

