Model Rocket Safety Code

1. Materials. I will use only lightweight, non-metal parts for the nose, body, and fins of my rocket.

2. Motors. I will use only certified, commercially-made model rocket motors, and will not tamper with these motors or use them for any purposes except those recommended by the manufacturer.

3. Ignition System. I will launch my rockets with an electrical launch system and electrical motor igniters. My launch system will have a safety interlock in series with the launch switch, and will use a launch switch that returns to the "off" position when released.

4. Misfires. If my rocket does not launch when I press the button of my electrical launch system, I will remove the launcher's safety interlock or disconnect its battery, and will wait 60 seconds after the last launch attempt before allowing anyone to approach the rocket.

5. Launch Safety. I will use a countdown before launch, and will ensure that everyone is paying attention and is a safe distance of at least 15 feet away when I launch rockets with D motors or smaller, and 30 feet when I launch larger rockets. If I am uncertain about the safety or stability of an untested rocket, I will check the stability before flight and will fly it only after warning spectators and clearing them away to a safe distance.

6. Launcher. I will launch my rocket from a launch rod, tower, or rail that is pointed to within 30 degrees of the vertical to ensure that the rocket flies nearly straight up, and I will use a blast deflector to prevent the motor's exhaust from hitting the ground. To prevent accidental eye injury, I will place launchers so that the end of the launch rod is above eye level or will cap the end of the rod when it is not in use.

7. Size. My model rocket will not weigh more than 1,500 grams (53 ounces) at liftoff and will not contain more than 125 grams (4.4 ounces) of propellant or 320 N-sec (71.9 pound-seconds) of total impulse. If my model rocket weighs more than one pound (453 grams) at liftoff or has more than four ounces (113 grams) of propellant, I will check and comply with Federal Aviation Administration regulations before flying.

8. Flight Safety. I will not launch my rocket at targets, into clouds, or near airplanes, and will not put any flammable or explosive payload in my rocket.

9. Launch Site. I will launch my rocket outdoors, in an open area at least as large as shown in the accompanying table, and in safe weather conditions with wind speeds no greater than 20 miles per hour. I will ensure that there is no dry grass close to the launch pad, and that the launch site does not present risk of grass fires.

10. Recovery System. I will use a recovery system such as a streamer or parachute in my rocket so that it returns safely and undamaged and can be flown again, and I will use only flame-resistant or fireproof recovery system wadding in my rocket.

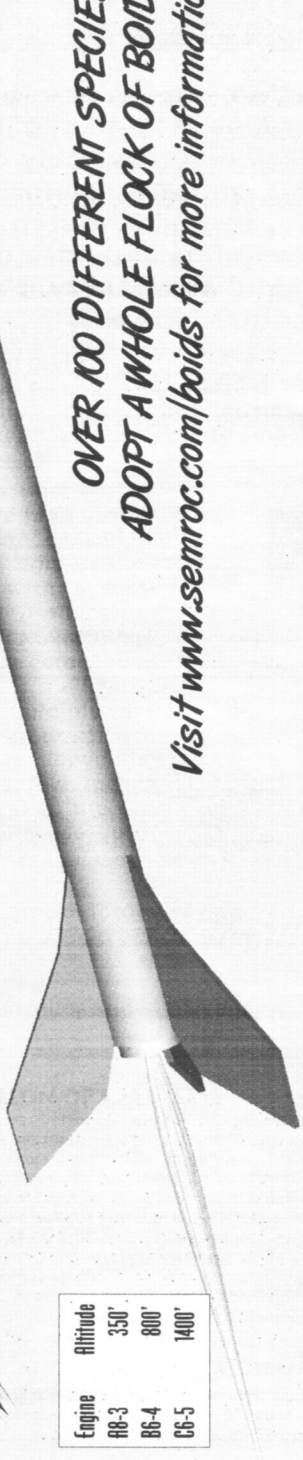
11. Recovery Safety. I will not attempt to recover my rocket from power lines, tall trees, or other dangerous places.

Join the National Association of Rocketry at

http://ww.nar.org.

MY BOID

SEMROC



Engine	Altitude
A8-3	350'
B6-4	800'
C6-5	1400'

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ADOPT A WHOLE FLOCK OF BOIDS
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Precision Laser-Cut Balsa Fins ● Easy-to-use Engine Mount ● Bright 24" Streamer ● Smooth Balsa Nose Cone

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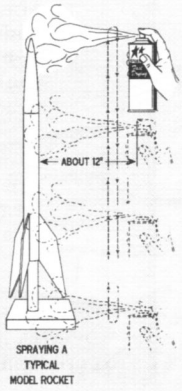
DRESSING YOUR BOID

Boids are ready to fly as soon as all the glue has dried! They do not have to be painted and decorated to fly, but your Boid is unique. Add some of your personality to your Boid. As you become more proficient in your finishing skills, you will want to follow these steps for the best-looking Boid!

When the glue has dried, all the balsa surfaces should be sealed for a smooth professional looking finish. Fill the wood grain with balsa fillercoat or sanding sealer. When dry, sand fins and nose cone with fine sandpaper. Repeat until smooth.



Wipe off all balsa dust with a dry cloth. Choose a high visibility color like white or yellow for the final color. Spray painting your model with a fast-drying enamel will produce the best results. PATIENCE... is the most important ingredient. Use several thin coats, allowing each coat to completely dry before the next coat. Start each spray a few inches above the model and end a few inches below the model. Keep the can about 12" away and use quick light coats.



SPRAYING A TYPICAL MODEL ROCKET

Your BOID is ready for flight!

LIMITATION OF LIABILITY

Model rockets are not toys, but are functional rockets made of lightweight materials and are launched with NAR or Tripoli safety certified model rocket motors, electrically ignited and flown in accordance with the NAR Model Rocket Safety Code. If misused, model rockets can cause serious injury and property damage. Semroc certifies that it has exercised reasonable diligence in the design and manufacture of its products. Semroc cannot assume any liability for the storage, transportation, or usage of its products. Semroc shall not be held responsible for any personal injury or property damage whatsoever arising out of the handling, storage, use, or misuse of our products. The buyer assumes all risks and liabilities therefrom and accepts and uses Semroc products on these conditions.

Your purchase and use of any Semroc products is construed as your agreement to and acceptance of these terms. If you do not agree to these terms and conditions, you must return the product, unused, for refund or credit.

BOID FLIGHT SCHOOL

Boids love to fly! But you have to help it each time by getting it prepped. Follow these easy steps to help your Boid make its first solo flight.

PREFLIGHT:

12 **Select a model rocket engine. Use an A8-3 engine for the first flight. Later flights may be made with a B6-4 or C6-5 if your field is large enough.**

11 **Mount the engine by inserting it in the engine mount tube and making sure the hook keeps the engine in snugly. Install an electrical igniter in the engine using the instructions that were supplied with the engine.**



10 **Pack the flameproof recovery wadding from the top of the body tube. Fill the tube with about 1-1/2" of wadding making sure it seals along the sides of the tube.**

9 **Roll the streamer into a small cylinder around the shock cord. Insert the streamer on top of the wadding. Insert the nose cone, making sure it does not pinch the streamer or shock cord.**



8 **Place your Boid on the launcher. Make sure the launch controller is not armed. Attach the micro-clips to the igniter leads, checking to make sure they are not touching.**

7 **Clear the flight area, check for low-flying aircraft, and alert all the Boid watchers of your pending flight.**

6 **Arm your launch controller and start your countdown...**

5 4 3 2 1

FLY!!

POSTFLIGHT:

Safely recover your Boid. Some parts, particularly the engine hook may still be warm. Remove the spent engine casing and dispose of properly. Clean your Boid up before its next flight.