**PRECAUTIONS**

**NAS Safety Code**

- NO DRY GRASS OR WEEDS

**MISFIRES**

TAKE THE KEY OUT OF THE CONTROLLER, WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! Disconnect the igniter clip and remove the engine. Take the plug and igniter out of the engine. If the igniter has burned, it worked, but did not ignite the engine because it was not touching the propellant inside the engine. Push the plug in place, repeat the steps under Countdown and Launch.

**FLYING YOUR ROCKET**

Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little to no wind and good visibility. Always follow the National Association of Rocketry (NAR) SAFETY CODE.

**ASSEMBLY TIP**

Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

**TEST-FIT ALL PARTS TOGETHER BEFORE APPLYING ANY GLUE.** If any parts don’t fit properly, sand as required for precision assembly.

**PARTS**

Locate the parts shown below and lay them out on the table in front of you. DO NOT USE THIS DRAWING TO ASSEMBLE YOUR ROCKET.

**SUPPLIES**

In addition to the parts included in the kit you will also need:
1. ASSEMBLE ENGINE MOUNT
   A. Use plastic cement to glue front engine ring and rear engine ring to engine mount tube.
   B. Position hook.
   C. Use plastic cement to glue engine mount section with launch lugs holes to engine mount tube.
   D. Use plastic cement to glue remaining engine mount sections to engine mount tube.
   E. Let finished engine mount dry.

2. ATTACH BODY TUBE SECTIONS TO COUPLERS
   A. Locate the five body tube sections and five of the tube couplers.
   B. Apply plastic cement inside one body tube section.
   C. Insert tube coupler into body tube section.
   D. Repeat steps B & C for remaining four sections and couplers.

3. INSTALL ENGINE MOUNT, LAUNCH LUGS & FINs.
   A. Spread plastic cement inside rear of slotted body tube.
   B. Align launch lug openings and pin slots. Insert engine mount, let dry.
   C. Apply plastic cement to launch lug. Insert launch lug into openings as shown. Let dry.
   D. Apply plastic cement to tab on fin and insert fin into fin slot.
   E. Repeat for remaining fins. Let dry.

   NOTE: Rings must be attached correctly for stable flight.

4. ASSEMBLE NOSE CONE SECTION
   A. Remove excess flash from nose cone and eyelet.
   B. Tie braided cord to nose cone.
   C. Apply plastic cement inside upper body tube.
   D. Pass braided cord through upper body tube and insert nose cone into upper body tube. Let dry.

5. ATTACH BODY SECTIONS
   A. Pass braided cord through small hole in one couple body tube section as shown.
   B. Tie a knot in cord as shown.
   C. Repeat steps A & B for the 4 remaining couple body tube sections. Keep knots 1/2 (12 mm) apart.
   D. Pass braided cord through remaining tube couplers. Double knot cord. Be sure cord cannot be pulled back through couplers.
   E. Apply small drop of glue to knot in cord.

6. ATTACH LOWER BODY TUBE
   A. Apply plastic cement inside front of lower body tube.
   B. Pull braided cord against hole in coupler and insert coupler into body tube. Let dry.

DECAL APPLICATION
   DECAL SHEET
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL
   DECAL

OPTIONAL: CLEAR COAT ENTIRE ROCKET AFTER DECAL APPLICATION.

ROCKET PREFLIGHT
A. Push braided cord into body sections and connect body sections.

READY TO LAUNCH!