

SAFÉTY CODE.

# **MISFIRES**

NO DRY GRASS

OR WEEDS

TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! Disconnect the igniter clips 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. Put a new igniter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.



Estes Industries 1295 H Street

Penrose, CO 81240 Printed in CHINA

### **ASSEMBLY TIP**

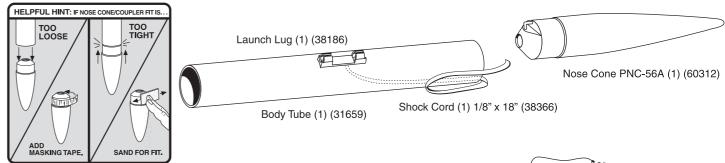
Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

#### **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.



ASTRON®

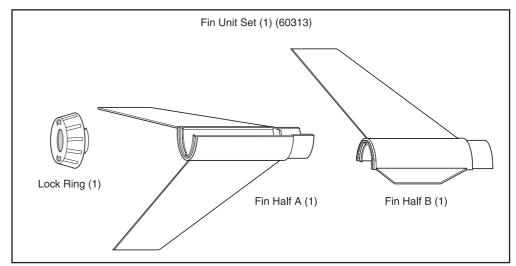
INTLAIM

KEEP FOR FUTURE REFERENCE

**FLYING MODEL** 

**ROCKET KIT** 

INSTRUCTIONS





Launchables

**Starter Set** 

#1452

Assembled 12" (30 cm) Parachute (1) (35801)



**SUPPLIES** In addition to the parts included in the kit you will also need



MODELING KNIFE



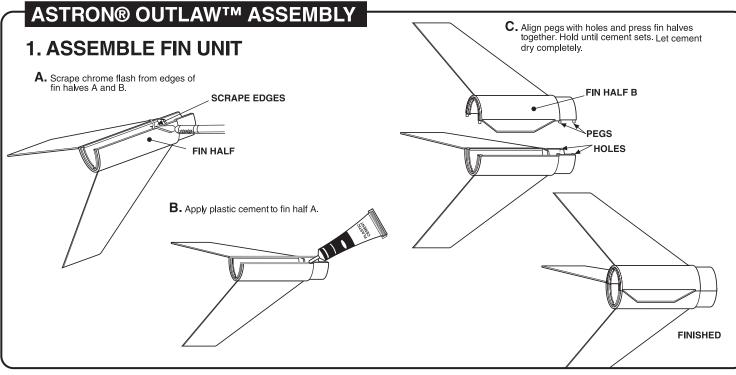


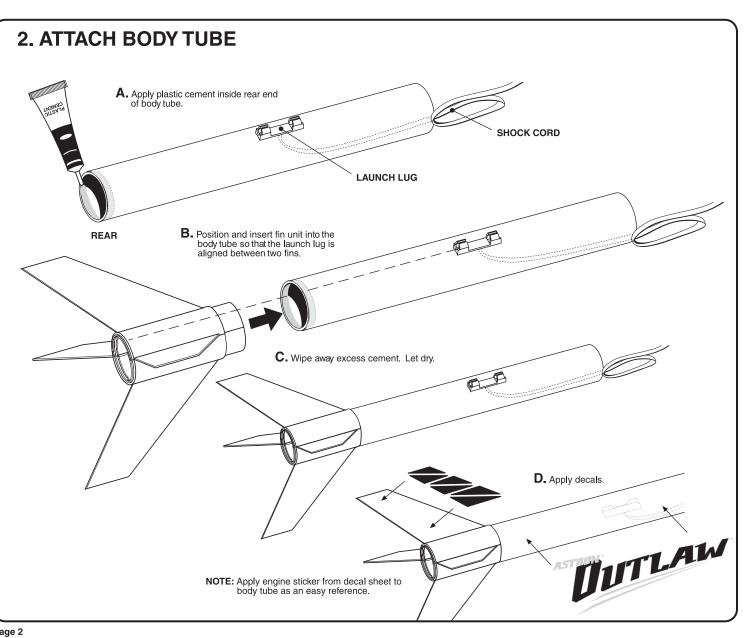


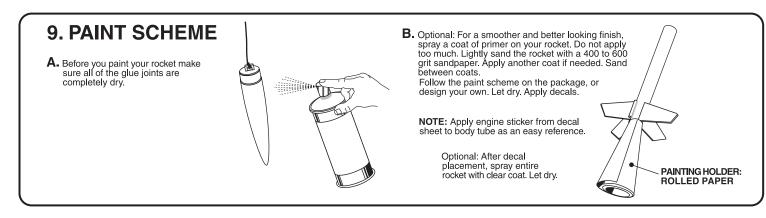


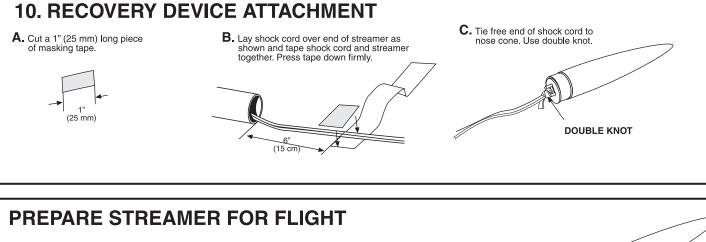
Decal Sheet (1) (60792)

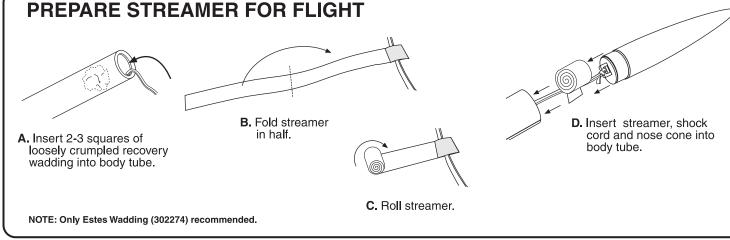


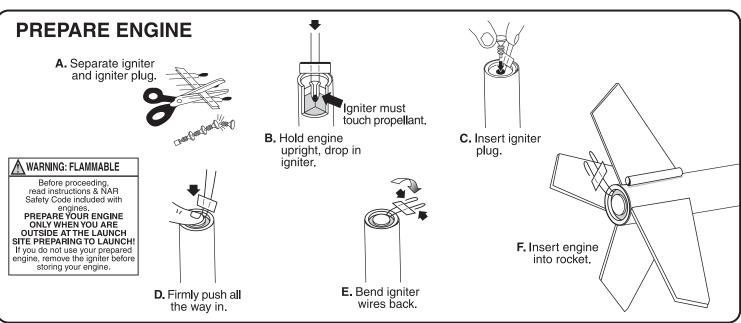














# BLack Diamonn'''

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**FLYING MODEL ROCKET KIT INSTRUCTIONS** KEEP FOR FUTURE REFERENCE Launchables **Starter Set** #1452

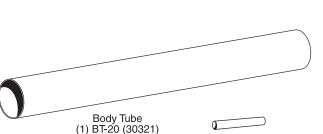
# **ASSEMBLY TIP**

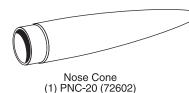
Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

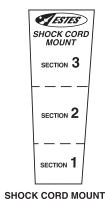
**TEST-FIT ALL PARTS** TOGETHER BEFORE APPLYING ANY GLUE. If any parts don't fit properly, sand as required for precision assembly.

# 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.



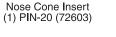






(38365)





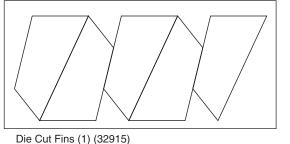






Yellow Spacer Tube Block (1) (1) (35003) (30162-2)Streamer (1) (38275)







Decals (1) (60793)

**SUPPLIES** In addition to the parts included in the kit you will also need:









GLUE

CARPENTER'S MODELING



BLACK DIAMOND™ ASSEMBLY





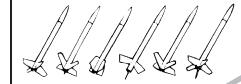
**B.** Insert nose cone insert into nose cone.

5-FIN

GUIDE

# 2. THE VERSATILE BLACK DIAMOND™

Your Black Diamond™ allows several different fin configurations from which to choose. Once you have decided on the number of fins you want to use, then select their arrangement. Some arrangements are shown below

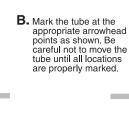


Use plastic cement only in this step.

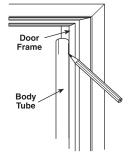
GUIDE

# TUBE MARKING DETAIL

A. Stand the body tube upright on one of three tube marking guides shown here and make sure the tube is centered on the guide.



C. Using a door frame as a auide extend the marks approximately 3" (76 mm) down the length of the



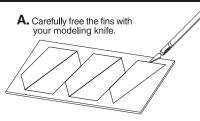
# 3. FIN PREPARATION

Read before proceeding with this step.
Work carefully with your hobby knife to free the fins from the card.

- · Be sure to cut completely around each fin outline
- before attempting to remove fins from the card.

   Check both sides of the card to make sure you cut through.
- · Pay close attention to the corner areas where die
- cutting is not complete.

   As you cut around each fin, cut away from the adjacent fins so you will not damage the other fins



**B**. Keep a piece of scrap card to use as a glue applicator in step 4C.

4-FIN

**GUIDE** 

C. Stack fins together and lightly sand the edges smooth and flat.

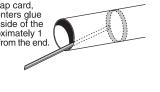
# 4. ENGINE BLOCK INSTALLATION



**B.** Measure body tube approximately 1 1/4" (32 mm) from the rear of the body tube.

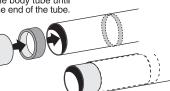


C. Using the scrap card, spread carpenters glue around the inside of the tube at approximately 1 1/4" (32 mm) from the end.

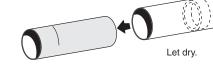




**E.** Use the yellow spacer tube to push engine block into the body tube until

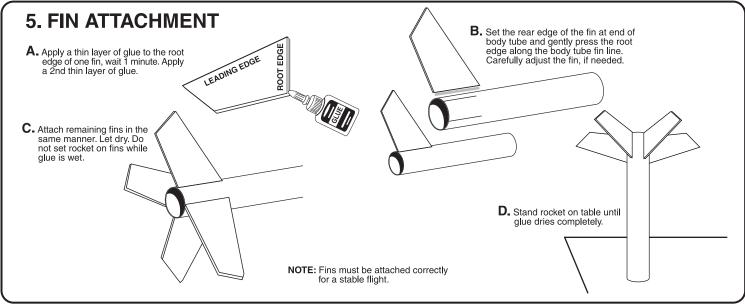


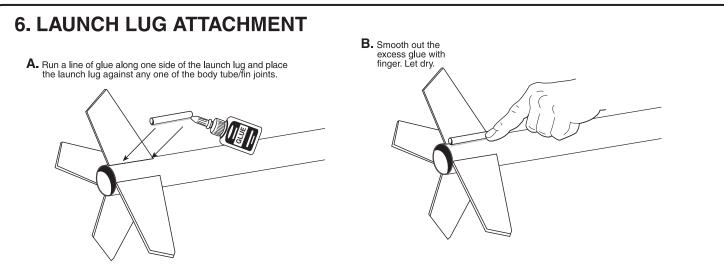
F. Immediately remove yellow spacer tube to prevent it from being glued in place.

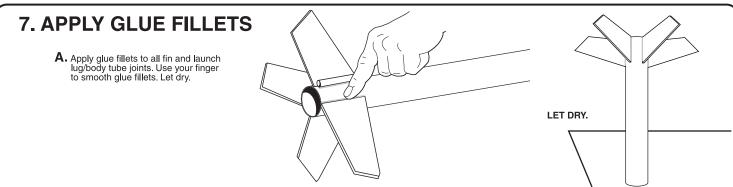


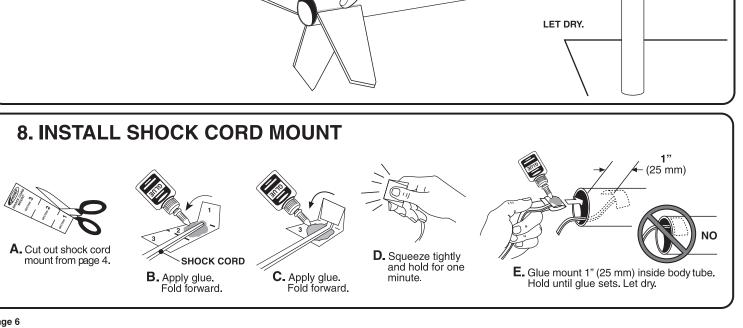
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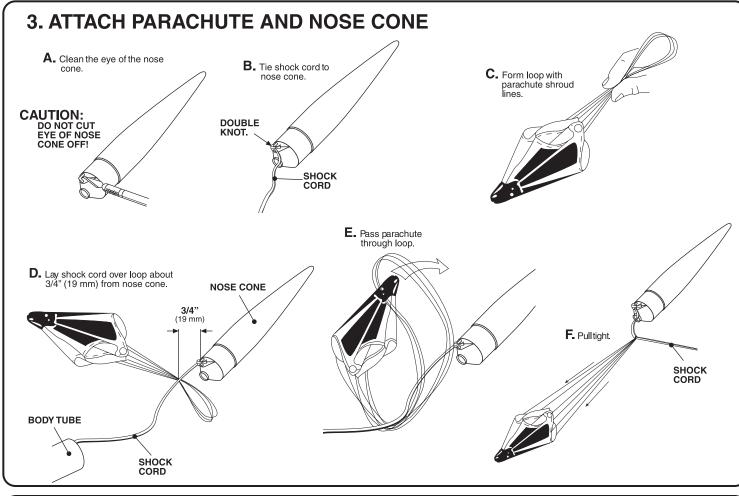
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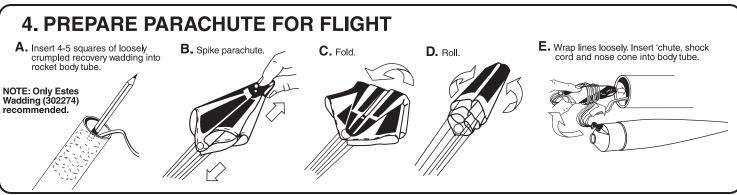


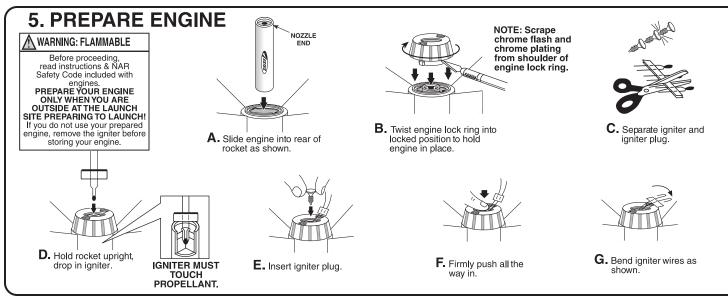












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