2022

AURORA™

EstesRockets.com



AGES 10+

Skill Level

BEGINNER

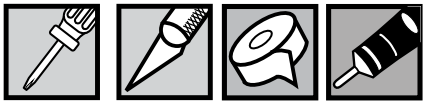
MODEL ROCKET INSTRUCTIONS

KEEP FOR FUTURE REFERENCE

IMPORTANT: Please record date found on decal and keep for future reference. _____

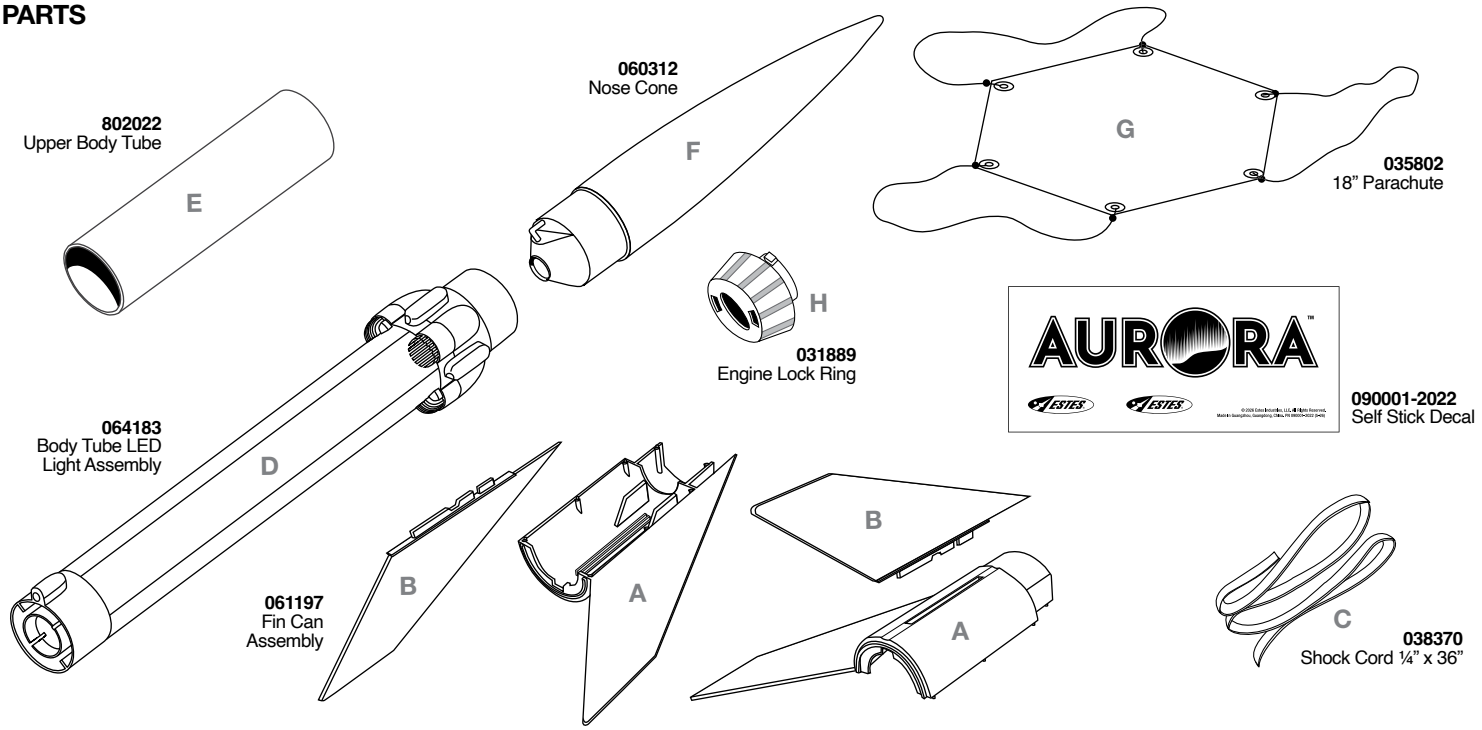
⚠ CAUTION: *May not apply to all kits. For safe handling of plastic cement, epoxy, spray adhesive, CA glue, CA accelerator, paint/finishing materials, see manufacturer's warnings and follow instructions for use. To avoid injury, use extreme caution when using hobby knife, scissors, drills, and any cutting tools.*

SUPPLIES



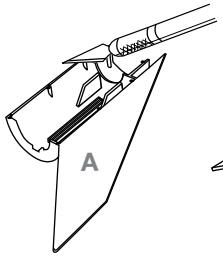
PHILLIPS HEAD SCREWDRIVER | HOBBY KNIFE | MASKING TAPE | PLASTIC CEMENT

PARTS

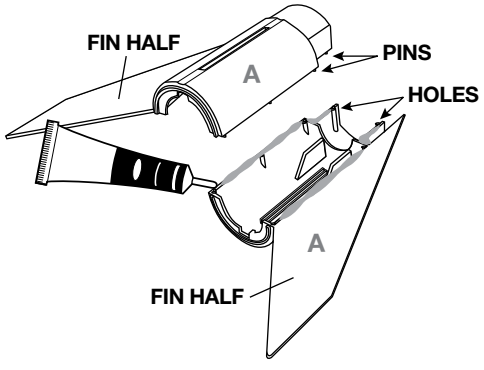


ASSEMBLE FIN CAN

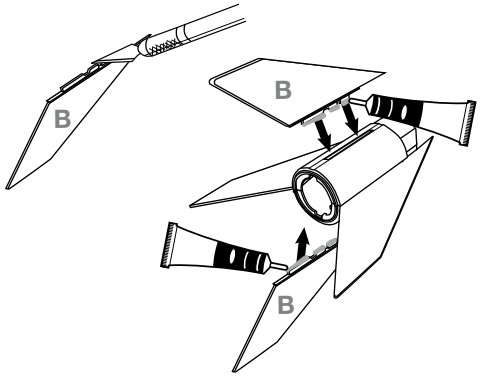
1. Scrape halves of fin can before applying glue.



2. Apply plastic cement to fin halves and pins.



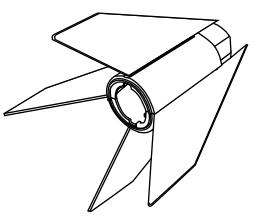
2. Scrape edges of fins. Apply plastic cement and insert fins into grooves.



⚠ CAUTION:

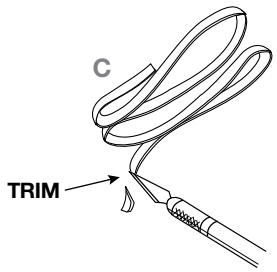
For safe handling of plastic cement, see manufacturer's warnings and follow instructions for use.

LET DRY

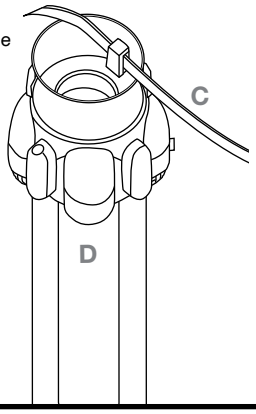


ATTACH SHOCK CORD

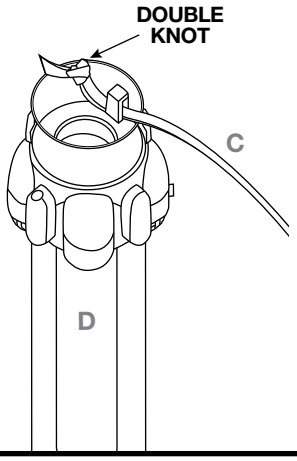
1. Trim one end of shock cord to form an angle.



2. Thread shock cord through loop on inside of LED body tube.

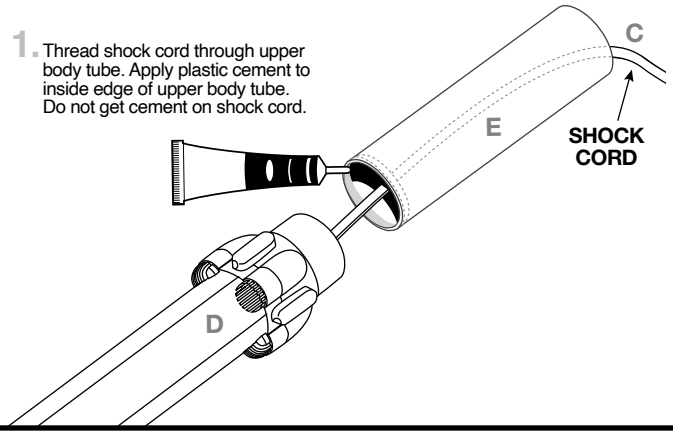


3. Tie a double knot at the end of shock cord.

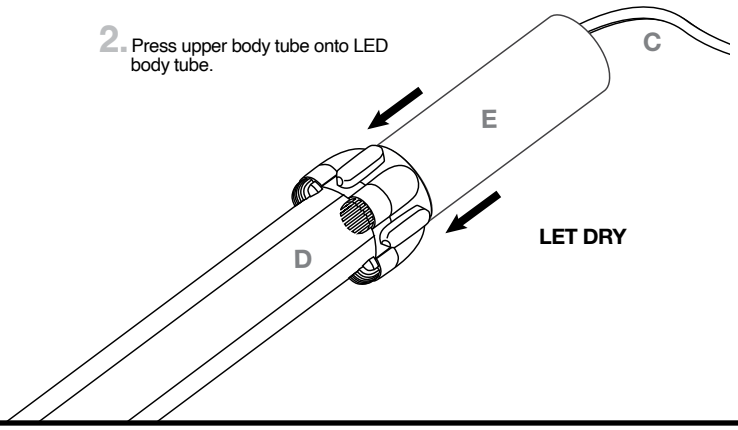


ATTACH UPPER BODY TUBE

1. Thread shock cord through upper body tube. Apply plastic cement to inside edge of upper body tube. Do not get cement on shock cord.

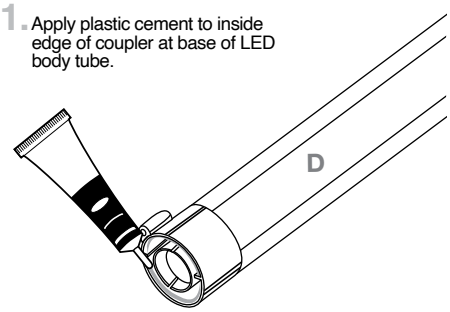


2. Press upper body tube onto LED body tube.

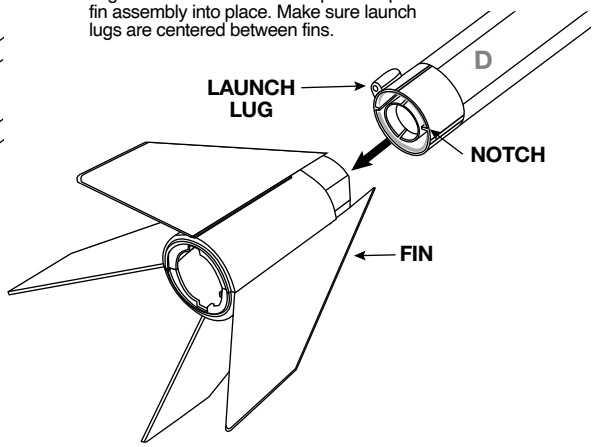


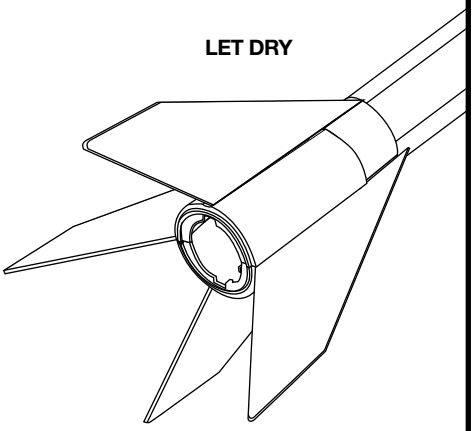
CONNECT FINS

1. Apply plastic cement to inside edge of coupler at base of LED body tube.



2. Align fins with notches on coupler and press fin assembly into place. Make sure launch lugs are centered between fins.





APPLY DECALS

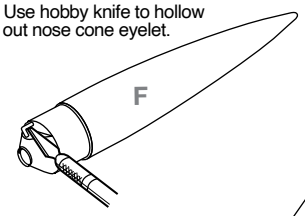
1. Peel self-stick decals one at a time and carefully apply to model. Refer to packaging for suggested decal placement.



NOTE:
Remove air bubbles from decals by poking a tiny hole and gently smoothing the air bubble out.

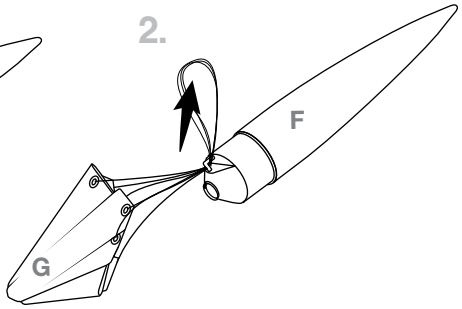
PREPARE FLIGHT RECOVERY

1. Use hobby knife to hollow out nose cone eyelet.

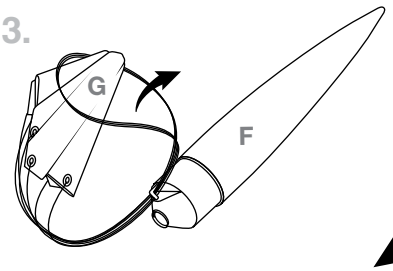


NOTE:
Do not cut off eyelet.

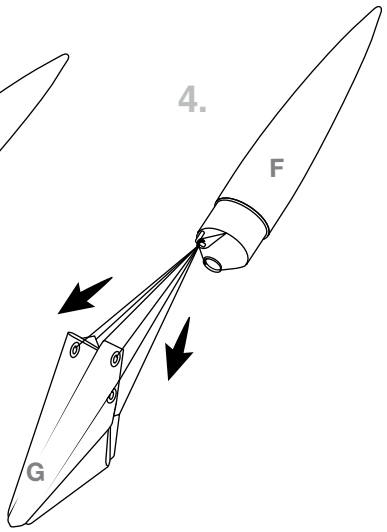
2.



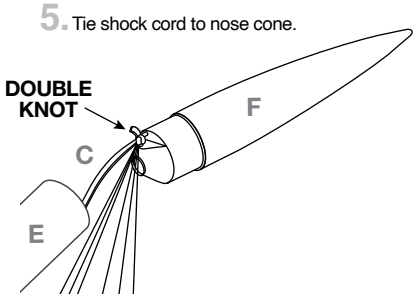
3.



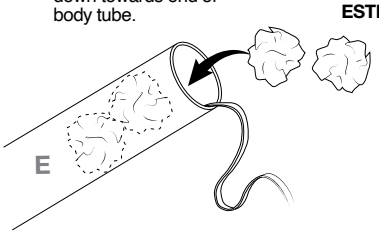
4.



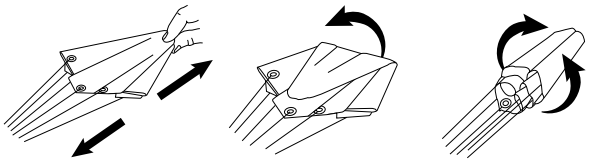
5. Tie shock cord to nose cone.



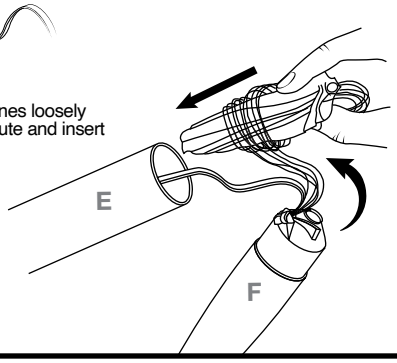
6. Push recovery wadding down towards end of body tube.



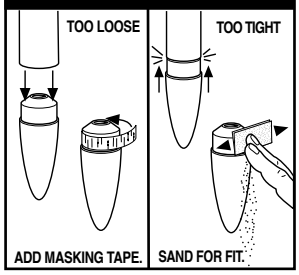
7. Fold parachute as shown.



8. Wrap shroud lines loosely around parachute and insert into body tube.

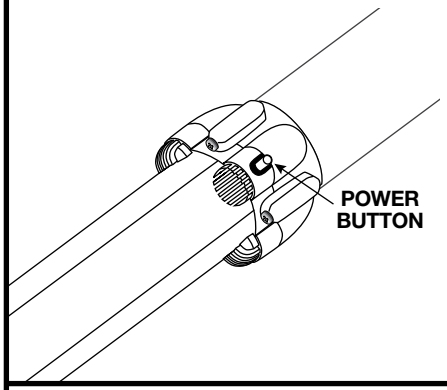


IF NOSE CONE FIT IS…

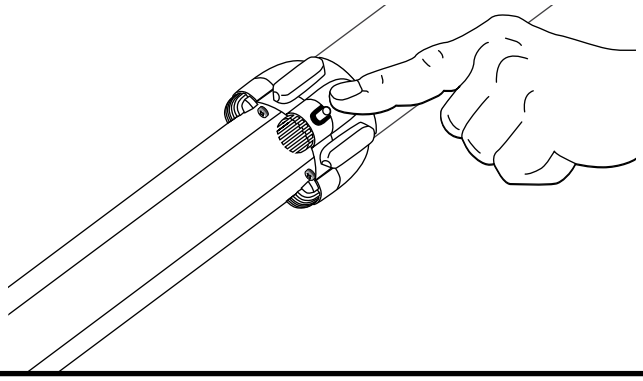


ACTIVATE LED BODY TUBE

1. Push the power button once to turn on.



2. Push the power button again to change to the next flashing sequence. There are five flash settings to choose from.

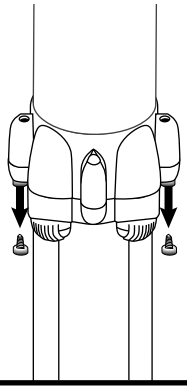


3. To turn off, cycle through the flashing sequence. After powering on, the LED lights will remain active for 10 minutes, then turn off. When the power button is pressed a sixth time, it automatically turns off.

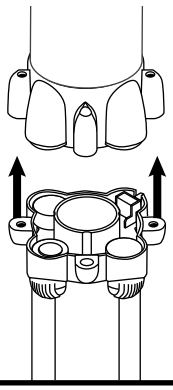
⚠ *CAUTION:*
Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the Body Tube LED Assembly.

REPLACE LED BODY TUBE BATTERIES

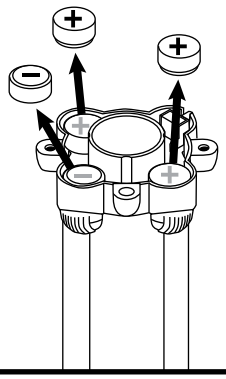
1. Remove 2 screws holding light controller.



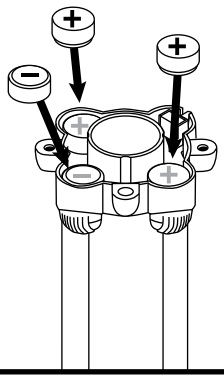
2. Remove upper section to reveal batteries.



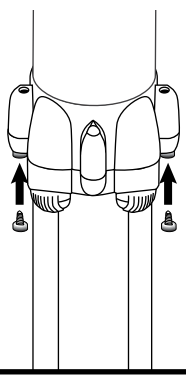
3. Remove batteries, noting the polarity.



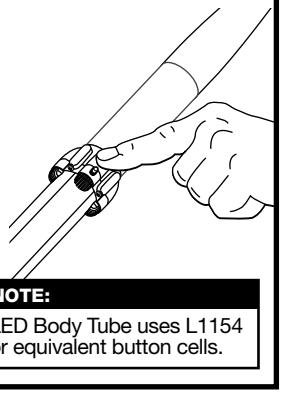
4. Place new batteries as indicated.



5. Replace upper section and tighten 2 screws.



6. Press power button to check for proper function.



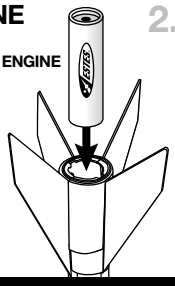
NOTE:
LED Body Tube uses L1154 or equivalent button cells.

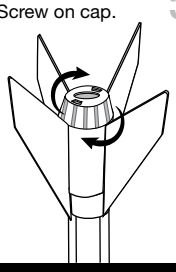
PREPARE ENGINE

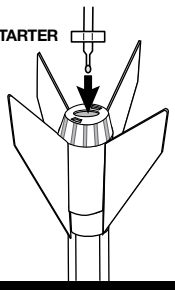
USE 1 EACH

PLUG

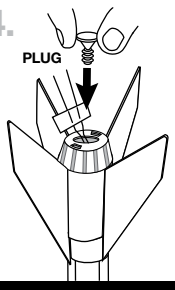
STARTER

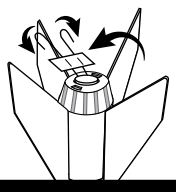












⚠ WARNING: FLAMMABLE

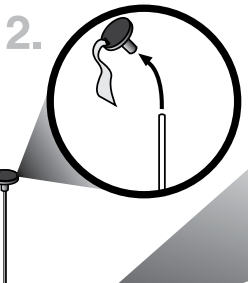
To avoid serious injury, read instructions & NAR Safety Code included with engines. **PREPARE YOUR ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH.** If you do not use your prepared engine, remove the starter before storing your engine.

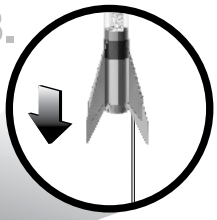
COUNTDOWN AND LAUNCH

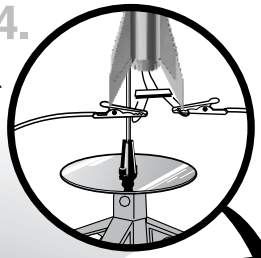
NOTE:

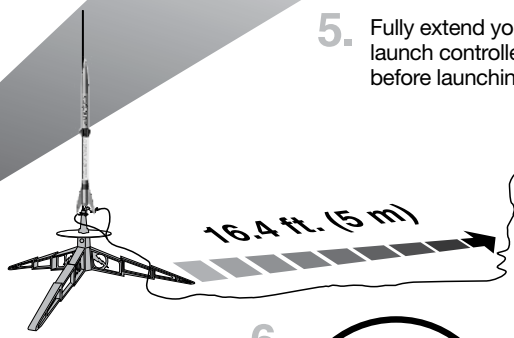
Always keep the key ***OUT*** until final countdown.





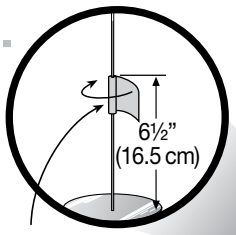






5. Fully extend your launch controller wire before launching.

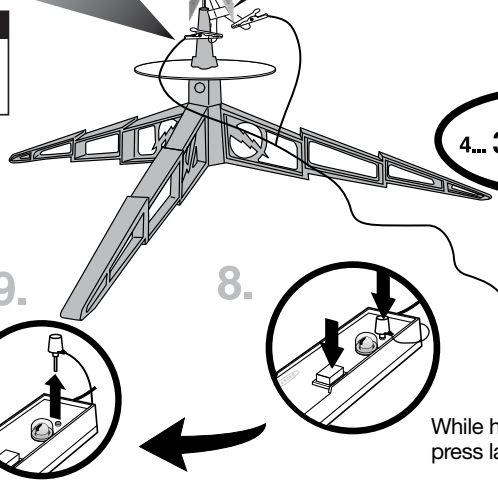


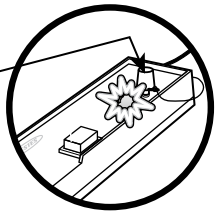


MASKING TAPE

NOTE:

It is important that enough tape is wrapped around launch rod so launch lug does not go over tape.

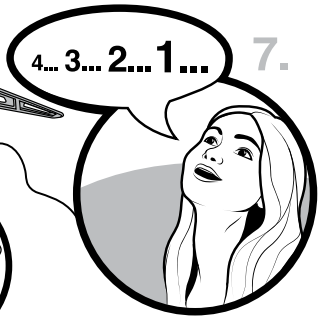


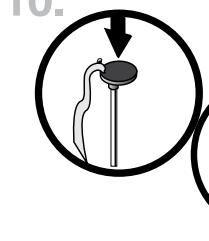


Insert key, push down hard. Bulb will light.

NOTE:

Estimated weight: 4.6 oz. (129 g)





While holding key down FIRMLY, press launch button until LIFTOFF!

ESTES® LAUNCH SUPPLIES NEEDED (Sold Separately)

- Porta-Pad® II Launch Pad
- Electron Beam® Launch Controller
- Recovery Wadding
- Starters (with engines)
- Plugs (with engines)
- Recommended Estes® Engines: C5-3, C6-3

PRECAUTIONS



NAR SAFETY CODE



NO DRY GRASS OR WEEDS

PRE-LAUNCH CHECK For safety, never launch a damaged rocket. Check the rocket's body, nose cone and fins. Also, check the engine mount, recovery system and launch lug(s). Repair any damage before launching the rocket.

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. Launch only with little or no wind and good visibility. Always follow the National Association of Rocketry (NAR) SAFETY CODE (enclosed).

MISFIRES TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET. Disconnect the micro-clips and remove the engine. Take the plug and starter out of the engine. A burned starter means the starter tip was not touching engine propellant. Install a new starter; be sure the tip is touching propellant inside the engine. Push the plug in place. Repeat steps under Countdown and Launch.

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PN 090004-2022 (11-26)