EstesRockets.com

AGES
10+

Skill Level
BEGINNER

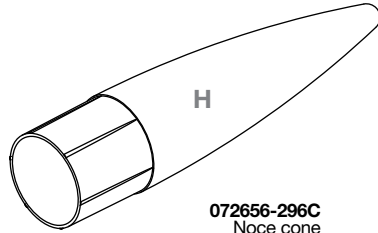# MODEL ROCKET INSTRUCTIONS

KEEP FOR FUTURE REFERENCE

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

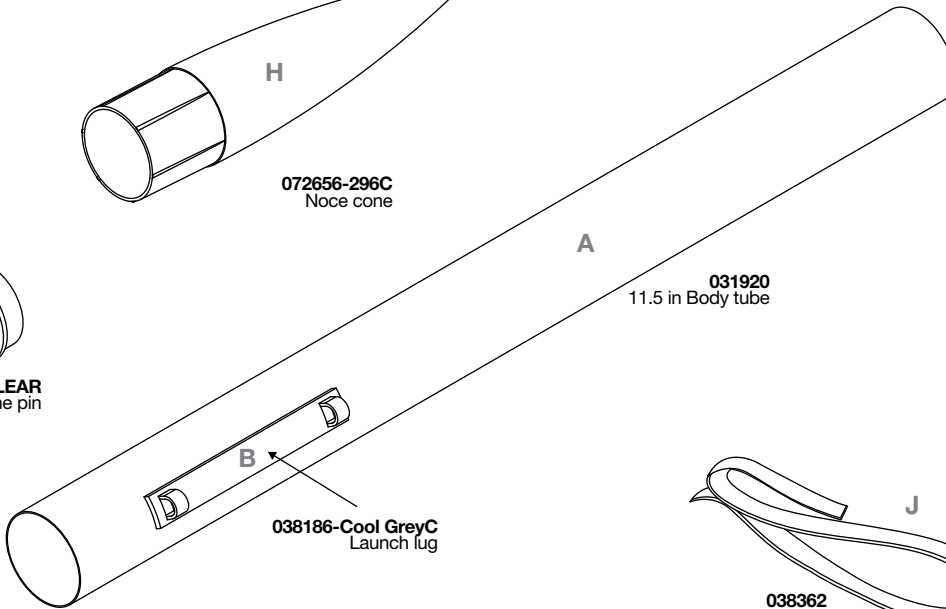*Read all instructions.* Make sure you have all parts and supplies.
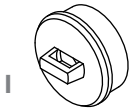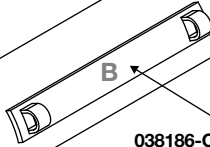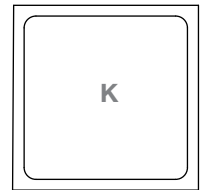
SUPPLIES

PLASTIC CEMENT

H

072656-296C
Noce cone

A

031920
11.5 in Body tube

I

072654-CLEAR
Nose cone pin

B

038186-Cool GreyC
Launch lug

J

038362
Shock cord

K

066459
Clear reinforcement tape

F

E
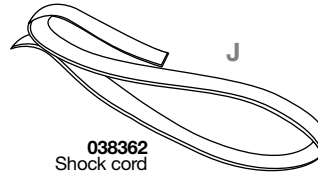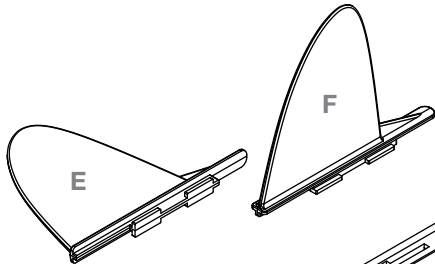
073057-296C
Engine mount

C

D
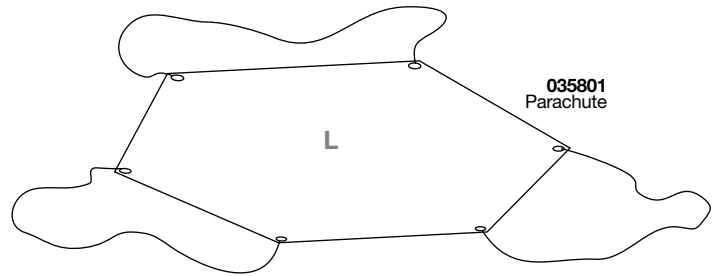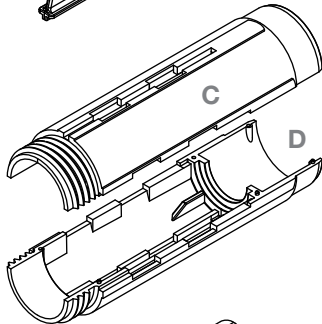
073058-296C
Engine mount

L

035801
Parachute

G

E

073061t-2197C
Fins **x2**
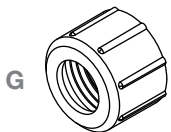
068231-Cool Grey 6 C
Engine
retainer cap

F
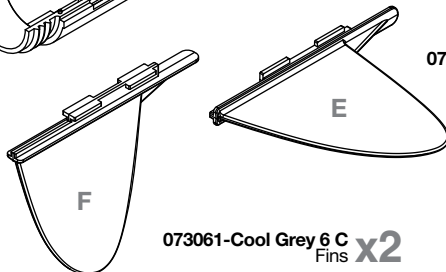
073061-Cool Grey 6 C
Fins **x2**

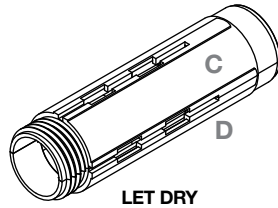**090001-3239**
Self stick decals

VENTURE

ASSEMBLE ENGINE MOUNT AND FINS

1. Apply plastic cement to the edges of **D**.

C

D
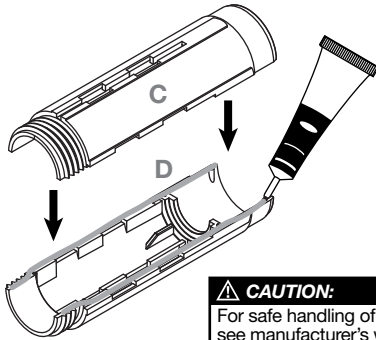
> ⚠ *CAUTION:*
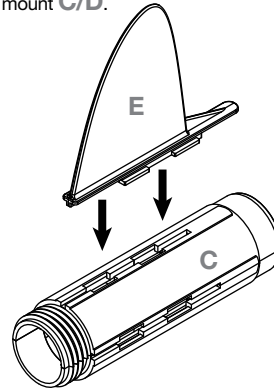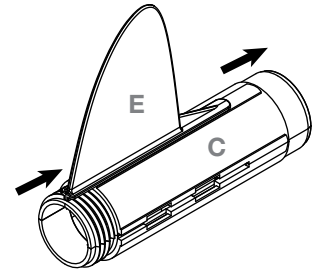> For safe handling of plastic cement, see manufacturer's warnings and follow instructions for use.
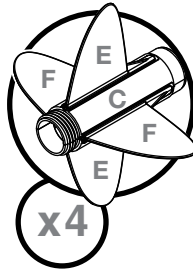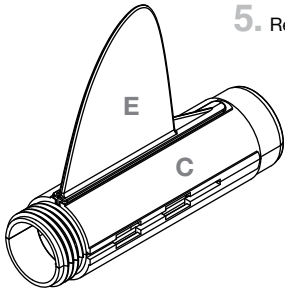
2. Press **C** and **D** together.

C

D

LET DRY

3. Insert fin **E** into slot in engine mount **C/D**.

E

C

4. Slide fin forward to lock into place.

E

C

5. Repeat for all 4 fins.

E

C

E

F

C

F

E

x4

6.

C

G
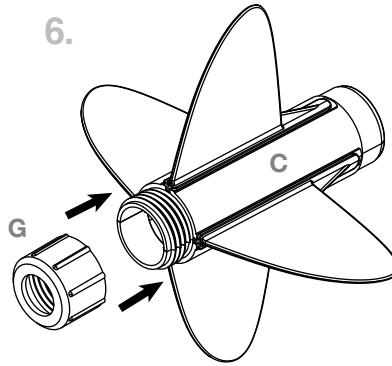
7. Screw engine retainer cap **G** onto engine mount **C/D**.

C

G
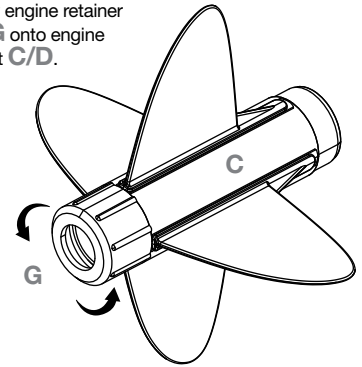
ATTACH BODY TUBE TO ENGINE MOUNT

1. Pull shock cord **J** out of the front of body tube **A**.

J

A
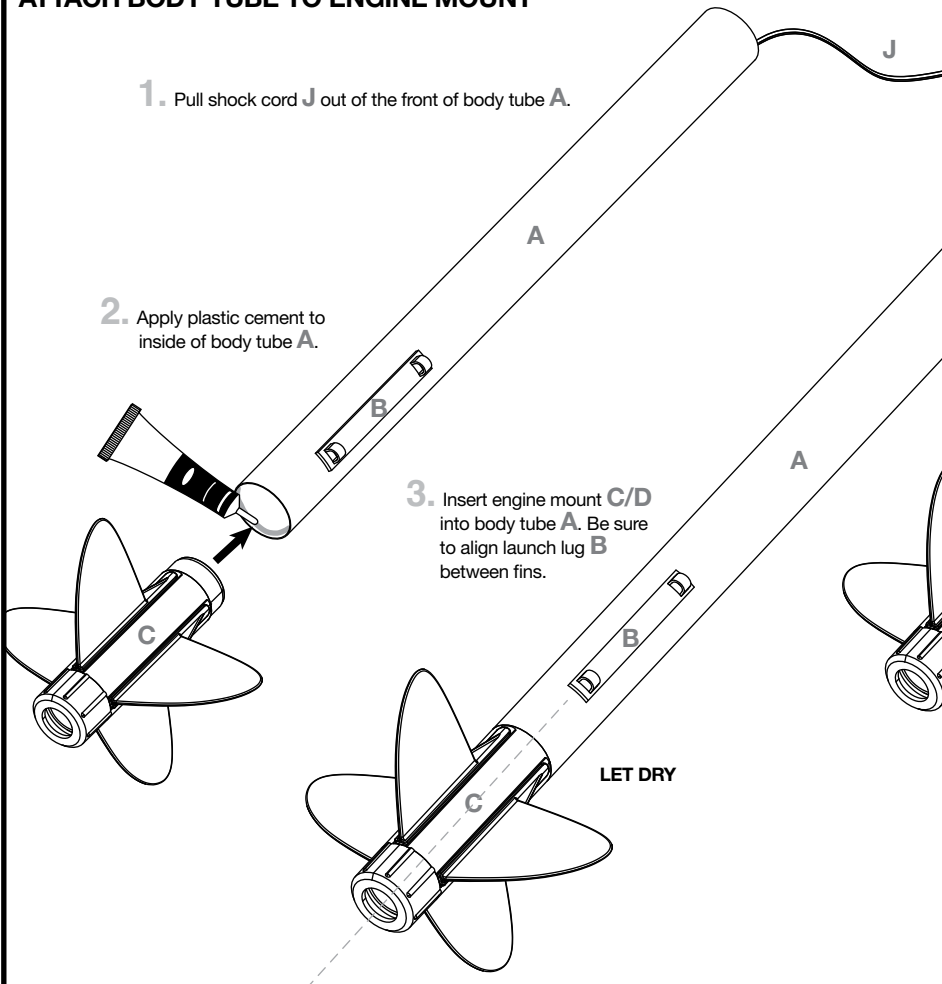
2. Apply plastic cement to inside of body tube **A**.

B

C

3. Insert engine mount **C/D** into body tube **A**. Be sure to align launch lug **B** between fins.

A

B

C

LET DRY

4. Place clear reinforcement tape **K** over launch lug **B**.

A

B

K

5.

ASSEMBLE NOSE CONE

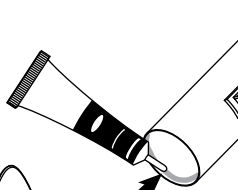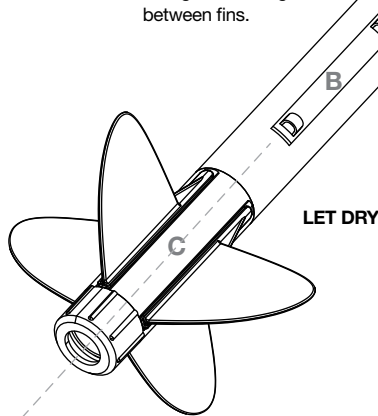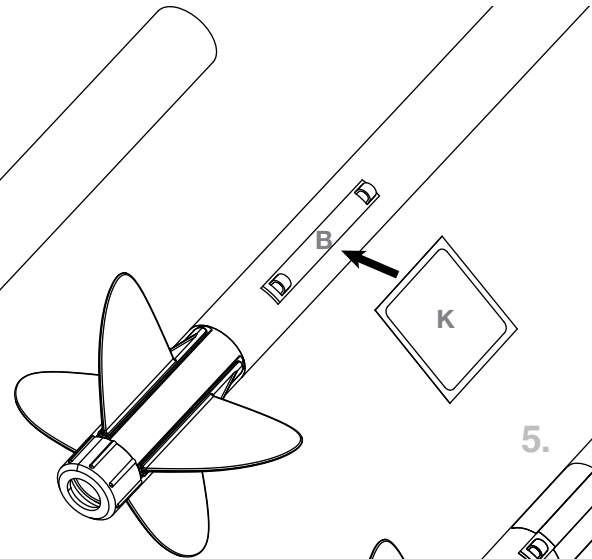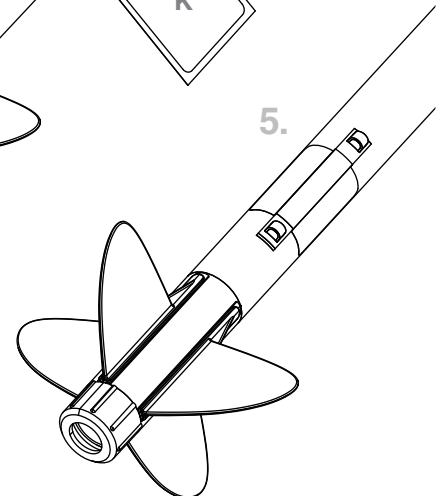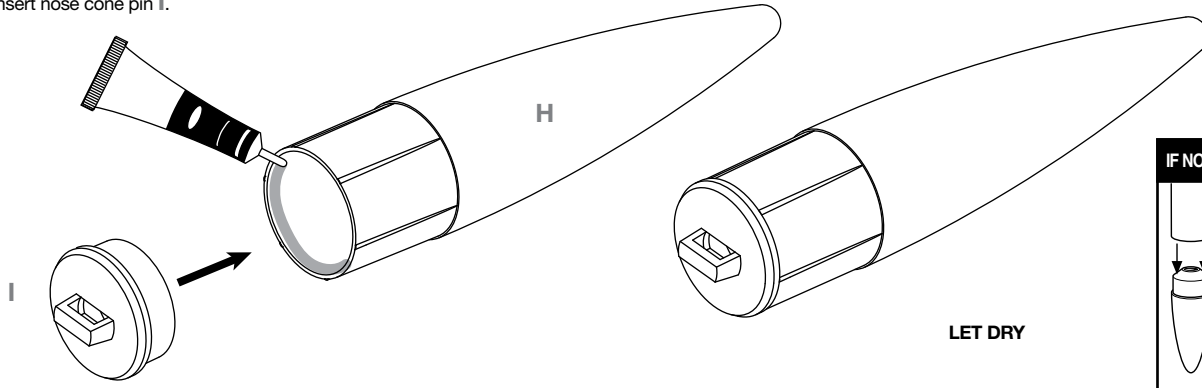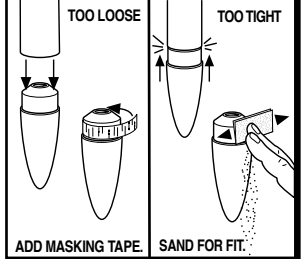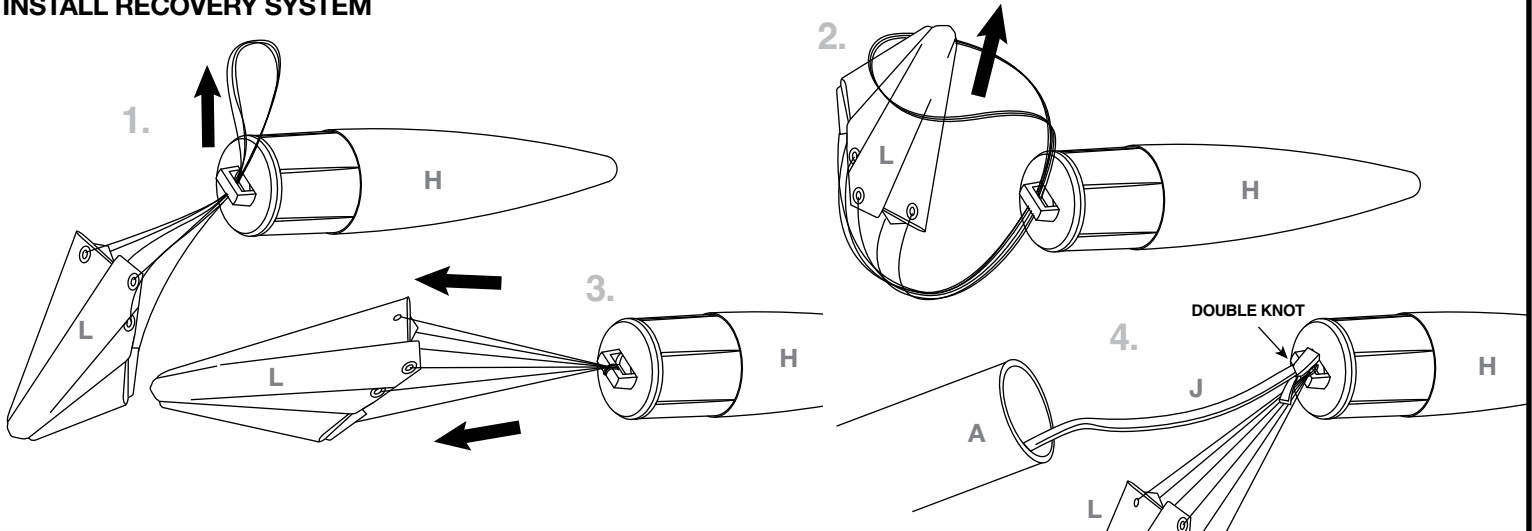**1.** Apply plastic cement to the inside of nose cone **H** and insert nose cone pin **I**.

H

I

LET DRY

IF NOSE CONE FIT IS. . .

TOO LOOSE **TOO TIGHT**

ADD MASKING TAPE. **SAND FOR FIT.**

INSTALL RECOVERY SYSTEM

1.

H

L

2.

L

H

3.

L

L

H

4.

DOUBLE KNOT

J

A

H

L

PREPARE FLIGHT RECOVERY

1. Push recovery wadding down towards end of the body tube.

L

A

**3-4 SQUARES
ESTES®
RECOVERY WADDING**

2.

L

3.

L

4.

L
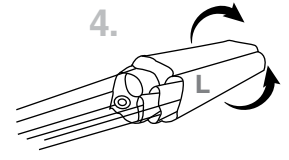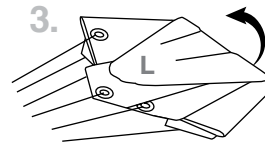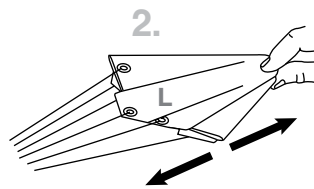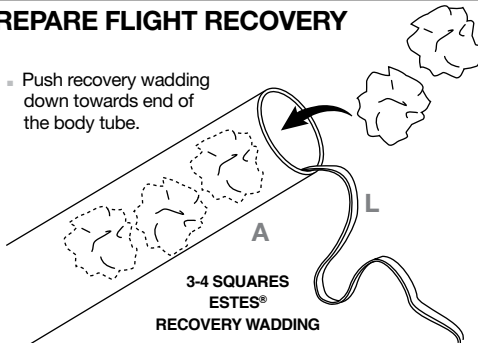
5. Wrap parachute shroud lines loosely around the parachute **N** and insert into body tube **A**.

A

L

H
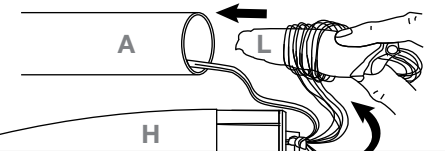
PREPARE ENGINE

1. Use one each.
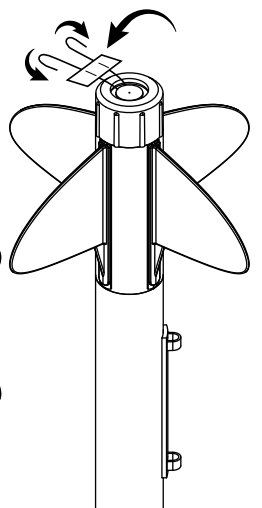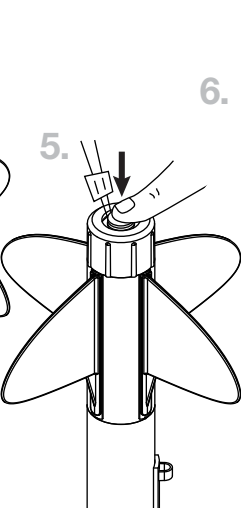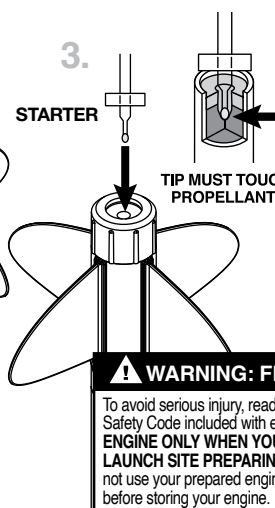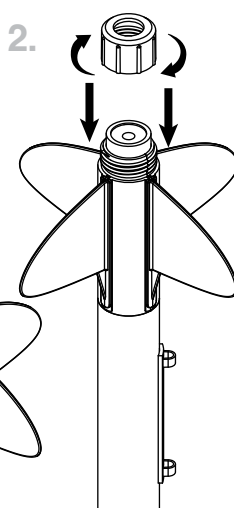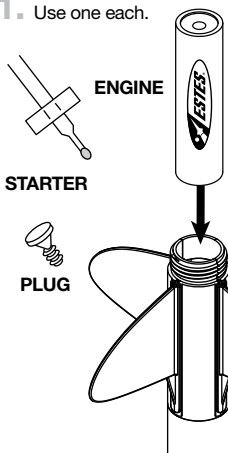
ENGINE

STARTER

PLUG

2.

3.

STARTER

**TIP MUST TOUCH
PROPELLANT!**

4.

PLUG

5.

6.

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

2.

3.

4.

5. Fully extend your launch controller wire before launching.

1.

5" (12.7 cm)

MASKING TAPE

16.4 ft. (5 m)

KEY

6. Insert key, push down hard. Bulb will light.

7.

4... 3... 2... 1...

10.

9.

8.

While holding key down FIRMLY, press launch button until LIFTOFF!
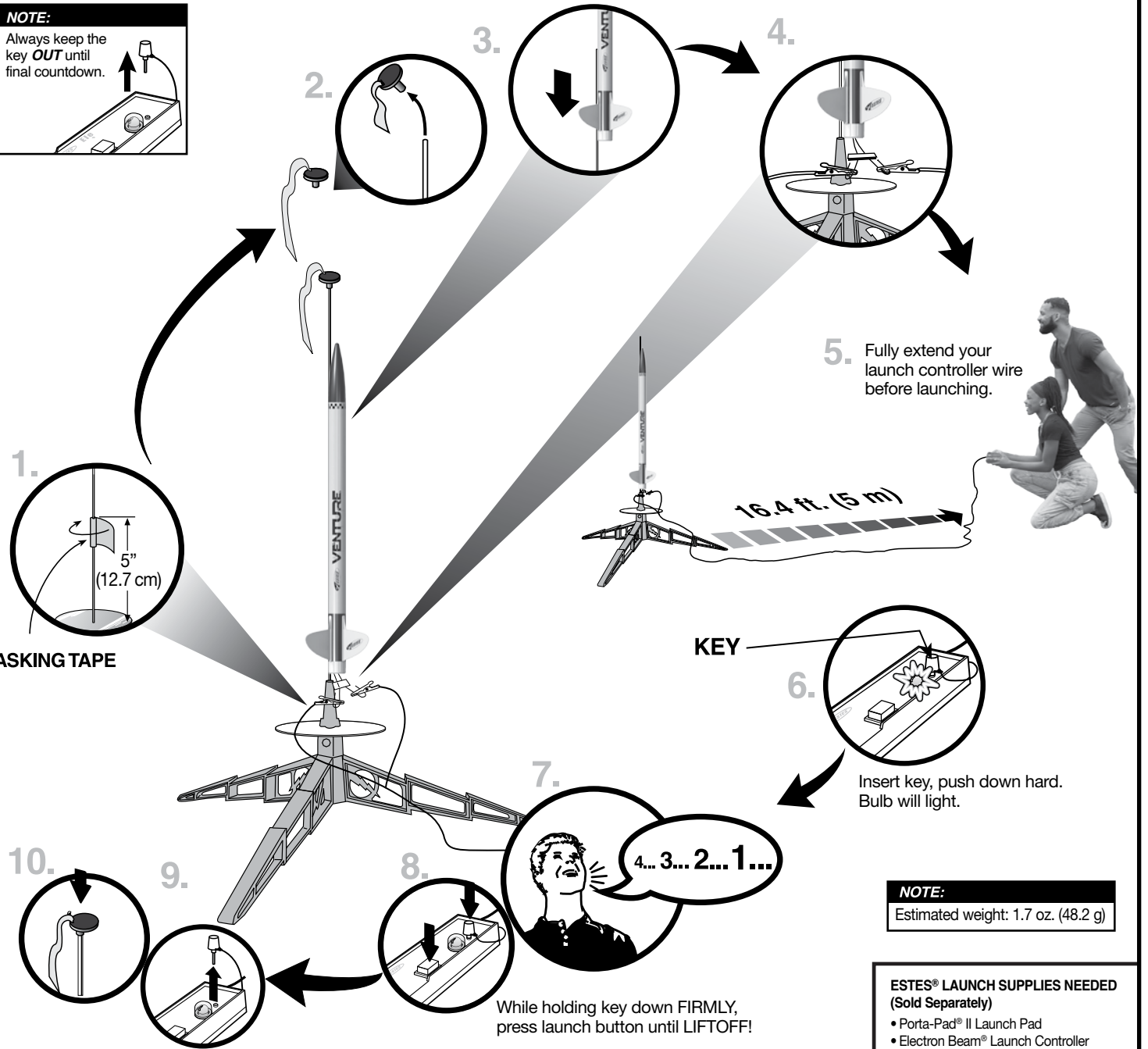
NOTE:
Estimated weight: 1.7 oz. (48.2 g)

ESTES® LAUNCH SUPPLIES NEEDED (Sold Separately)
- Porta-Pad® II Launch Pad
- Electron Beam® Launch Controller
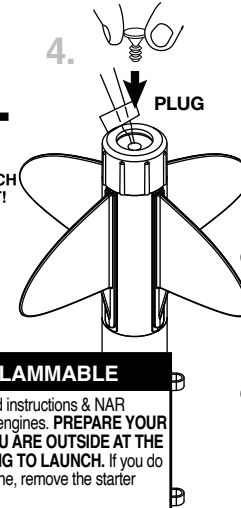- Recovery Wadding
- Starters (with engines)
- Plugs (with engines)
- Estes® Engines: A8-3, B6-4, C6-5

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.

PN 090004-3239 (3-24)

22 PAP