



EstesRockets.com

# KERBAL ROCKET



9726

AGES  
10+



Skill Level

**INTERMEDIATE**

## MODEL ROCKET INSTRUCTIONS

KEEP FOR FUTURE REFERENCE

**IMPORTANT:** Record date found on decal and keep for future reference: \_\_\_\_\_ . Read all instructions. Make sure you have all parts and supplies.

### SUPPLIES



YELLOW GLUE



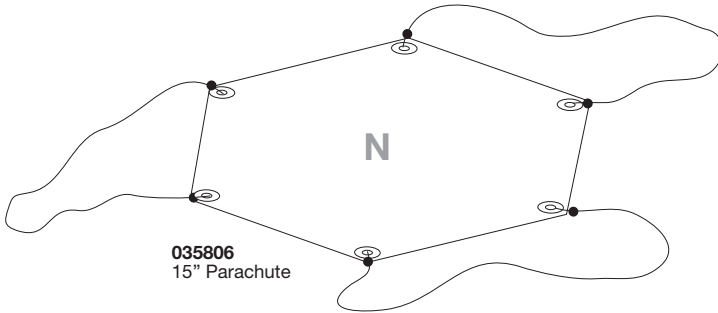
RULER



HOBBY KNIFE



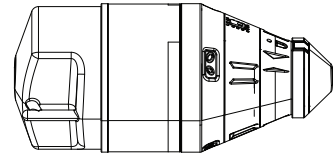
PLASTIC CEMENT



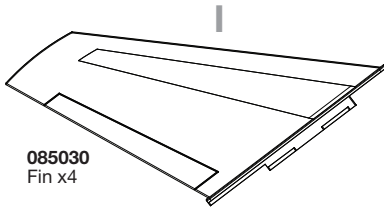
**035806**  
15" Parachute



**M** **085705**  
Clay



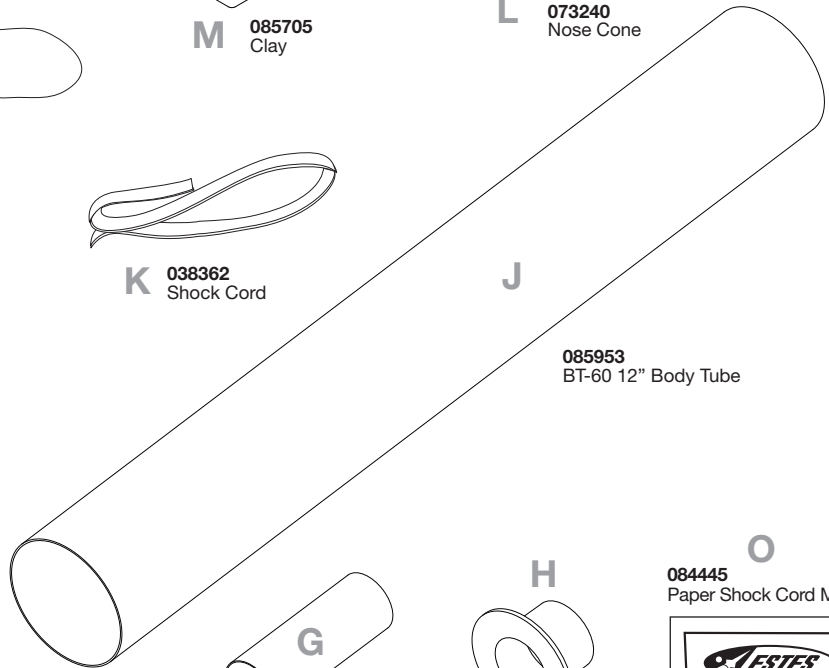
**L** **073240**  
Nose Cone



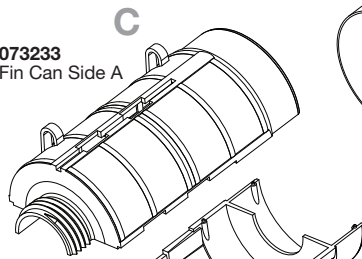
**085030**  
Fin x4



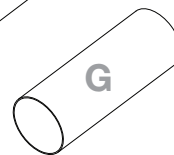
**K** **038362**  
Shock Cord



**085953**  
BT-60 12" Body Tube



**073233**  
Fin Can Side A

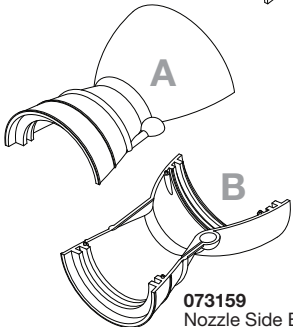


**031802**  
BT-20 2" Body Tube

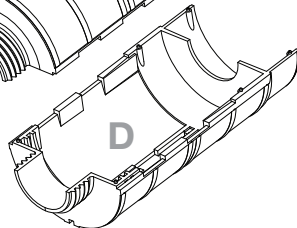


**082449**  
Tube Holder

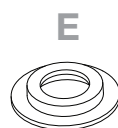
**073158**  
Nozzle Side A



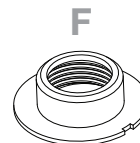
**073159**  
Nozzle Side B



**073234**  
Fin Can Side B

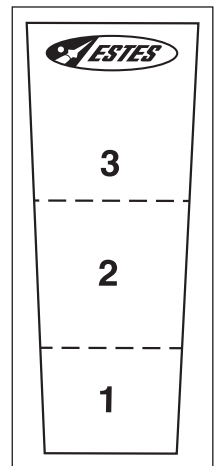


**088057**  
Engine Stop



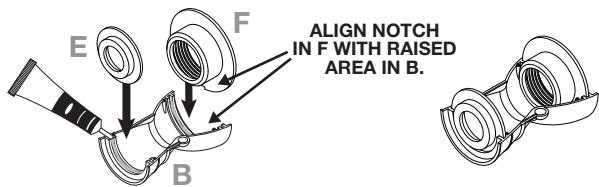
**073163**  
Nozzle Thread

**O** **084445**  
Paper Shock Cord Mount

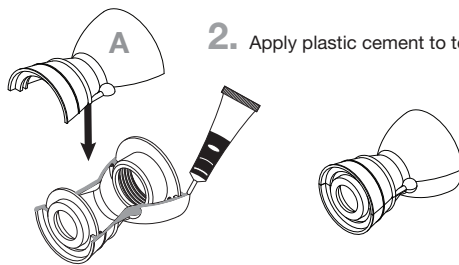


## ASSEMBLE NOZZLE

1. Apply plastic cement to inside of nozzle **B** and insert **E** and **F**.



2. Apply plastic cement to top of nozzle **B** and press nozzle **A** on.

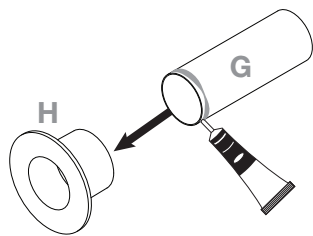


### CAUTION:

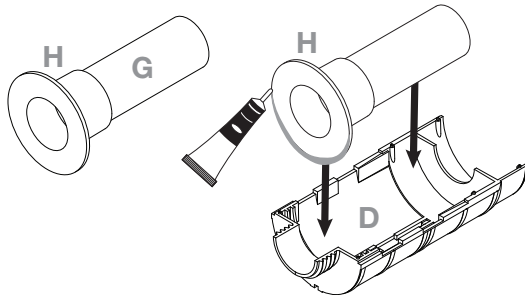
For safe handling of plastic cement, see manufacturer's warnings and follow instructions for use.

## ASSEMBLE FIN CAN

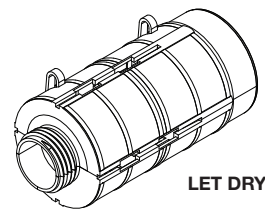
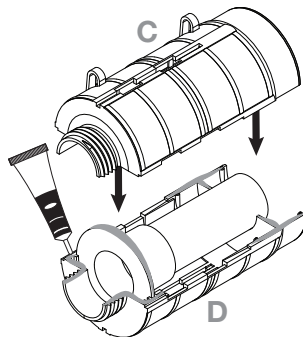
1. Apply plastic cement to outside of **G** and insert into **H**.



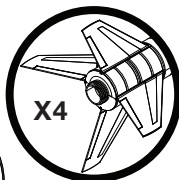
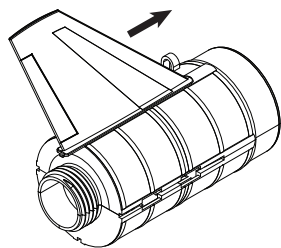
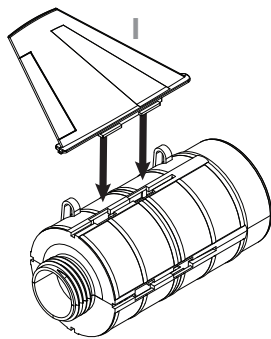
2. Apply plastic cement to lower half of **H** and insert into **D**.



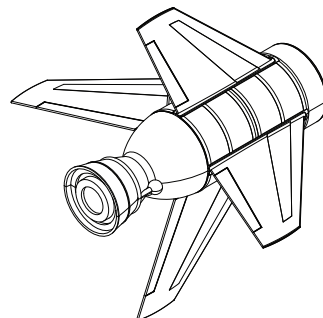
3. Apply plastic cement to **D** and top of **H**. Place **C** on top. Press and hold together for 30 seconds.



4. Insert fin **I** into fin can slot and push forward. Repeat for remaining fins.

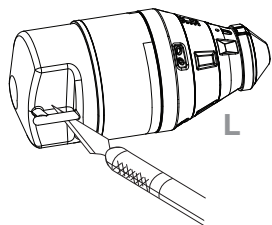


5. Screw nozzle onto fin can unit.

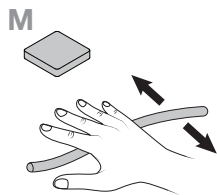


## PREPARE NOSE CONE

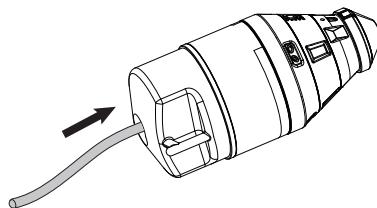
1. Cut out eyelet of nose cone **L**.



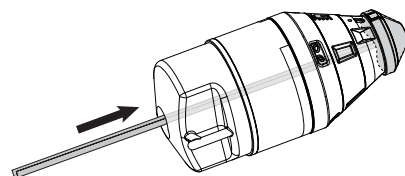
2. Roll clay into thin tubes



3. Insert clay tubes into nose cone.

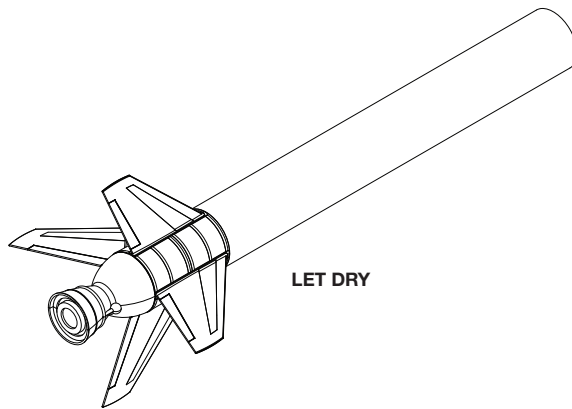
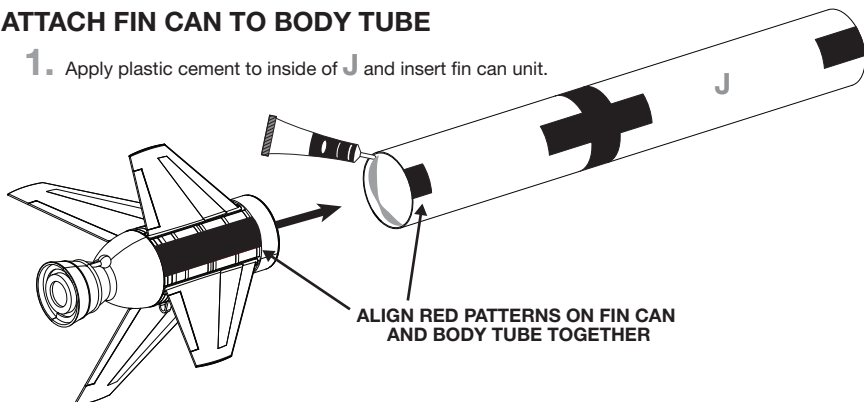


4. Use dowel, launch rod, or similar tool to compress clay into tip of nose cone.



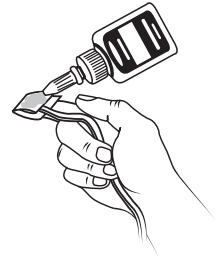
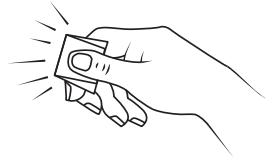
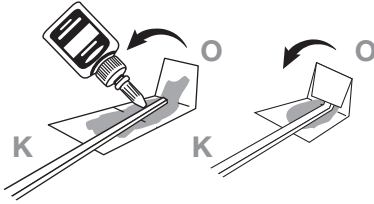
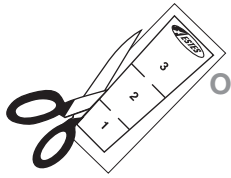
## ATTACH FIN CAN TO BODY TUBE

1. Apply plastic cement to inside of **J** and insert fin can unit.

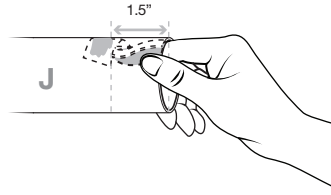
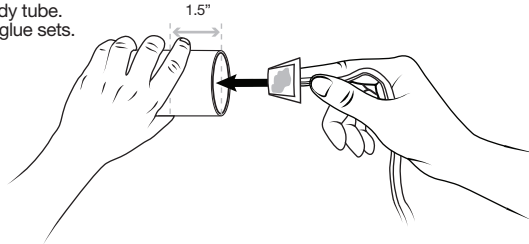


## ATTACH SHOCK CORD

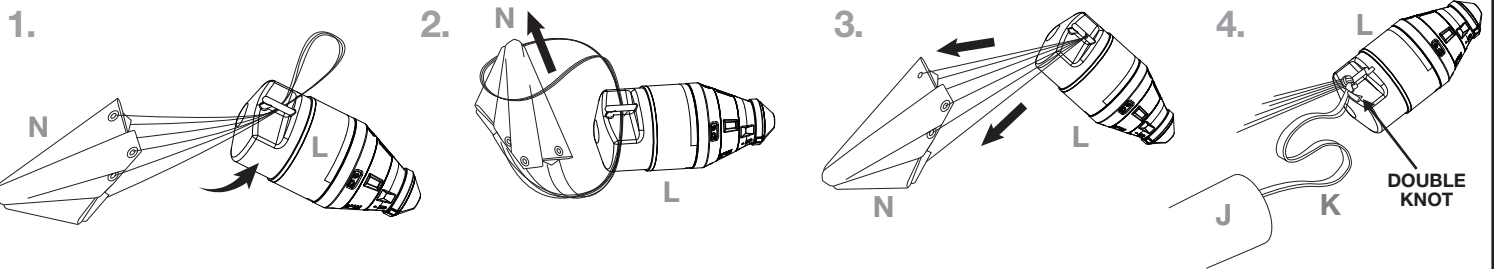
1. Cut out shock cord mount on page 1.
2. Apply glue to O. Hold shock cord K in place and fold O along lines. Hold until set.
3. Apply glue to shock cord mount.



4. Glue shock cord to inside of body tube. Use finger to hold in place until glue sets.

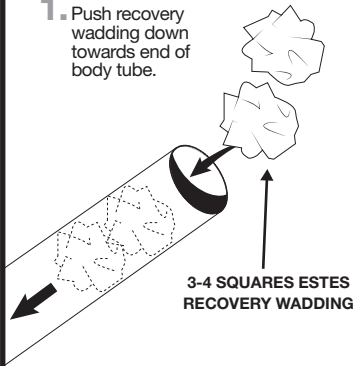


## PREPARE RECOVERY SYSTEM

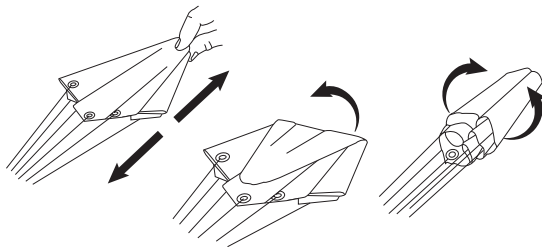


## PREPARE FLIGHT RECOVERY

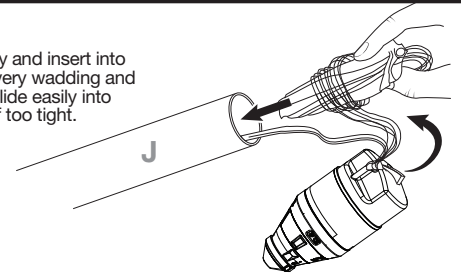
1. Push recovery wadding down towards end of body tube.



2. Fold parachute as shown.

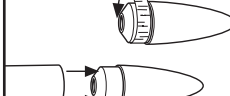


3. Wrap lines loosely and insert into body tube. Recovery wadding and parachute must slide easily into body tube; redo if too tight.



### IF NOSE CONE FIT IS...

TOO LOOSE:



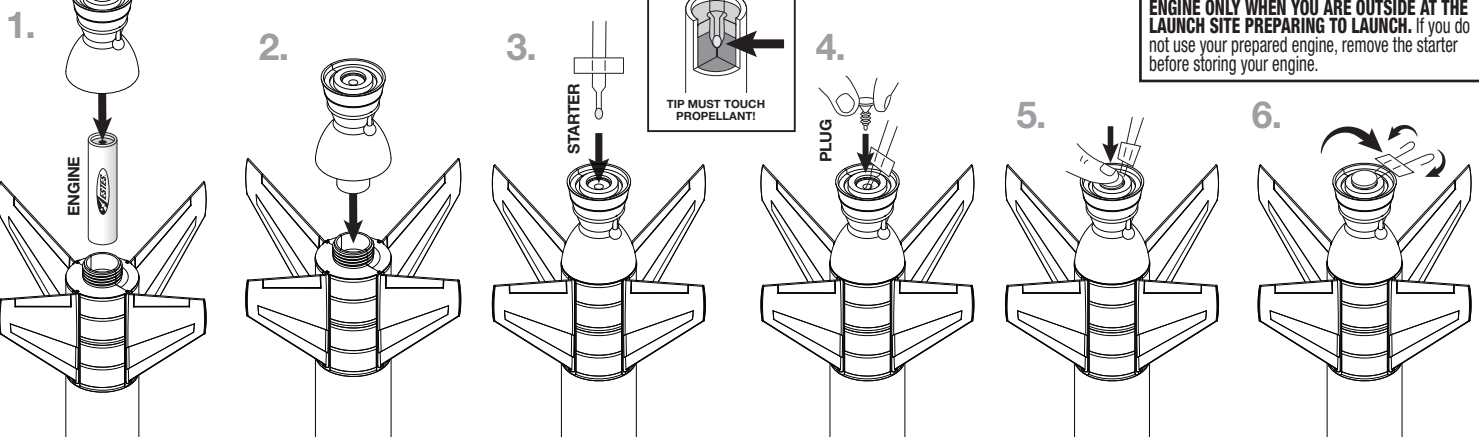
ADD MASKING TAPE.

TOO TIGHT:



SAND FOR FIT.

## PREPARE ENGINE

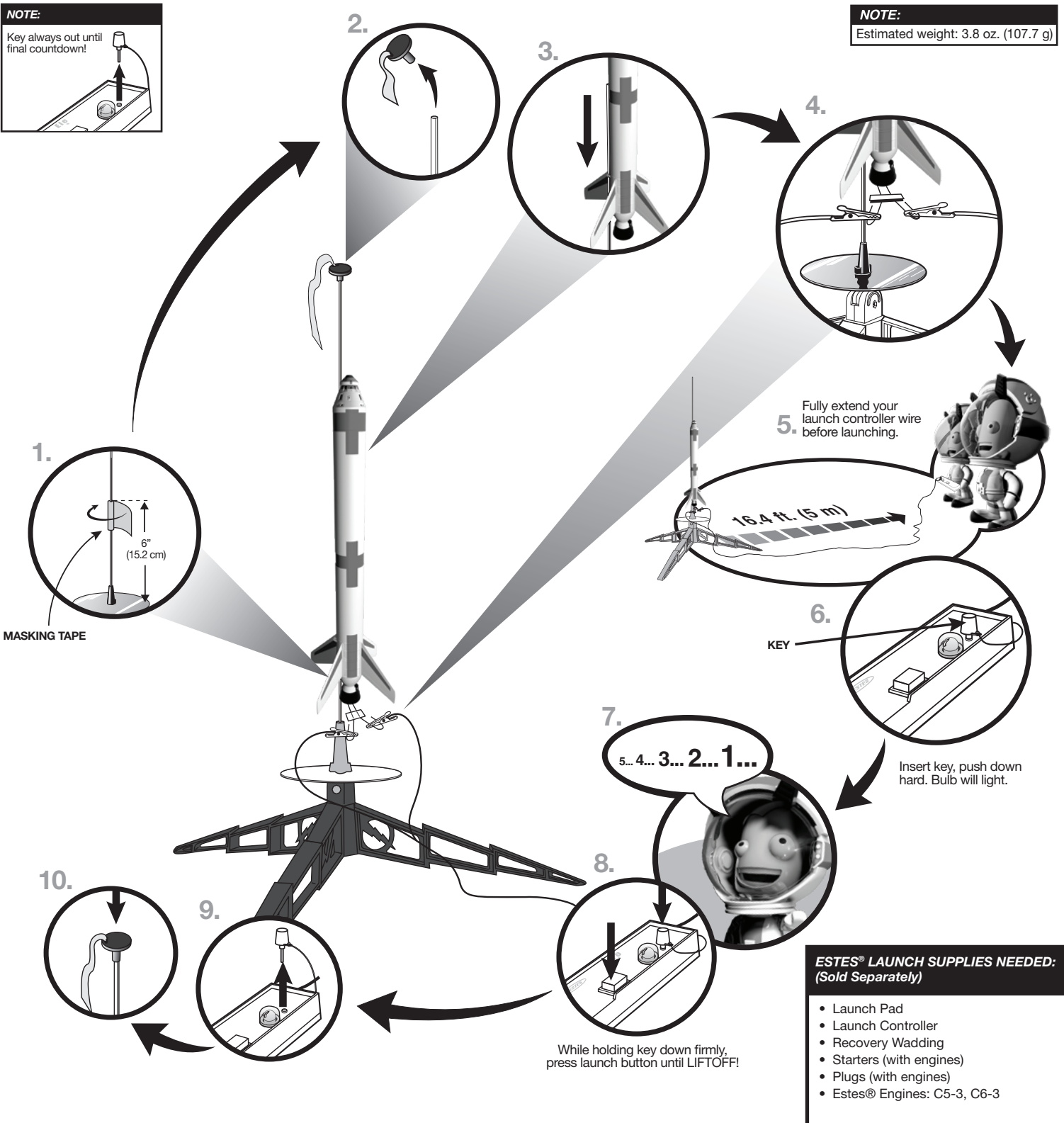


### ⚠ WARNING: FLAMMABLE

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.

**NOTE:**  
Key always out until final countdown!

**NOTE:**  
Estimated weight: 3.8 oz. (107.7 g)



- ESTES® LAUNCH SUPPLIES NEEDED:**  
(Sold Separately)
- Launch Pad
  - Launch Controller
  - Recovery Wadding
  - Starters (with engines)
  - Plugs (with engines)
  - Estes® Engines: C5-3, C6-3

**PRECAUTIONS**



**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.