5305

ORBITRON™

EstesRockets.com



AGES 10+

Skill Level

BEGINNER

MODEL ROCKET INSTRUCTIONS

KEEP FOR FUTURE REFERENCE

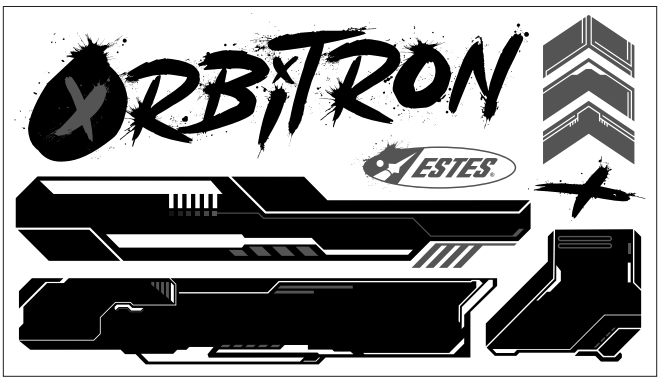
IMPORTANT: Make sure you have all the parts and supplies. Test fit all the parts for assembly. READ ALL INSTRUCTIONS CAREFULLY.

BUILDING SUPPLIES NEEDED

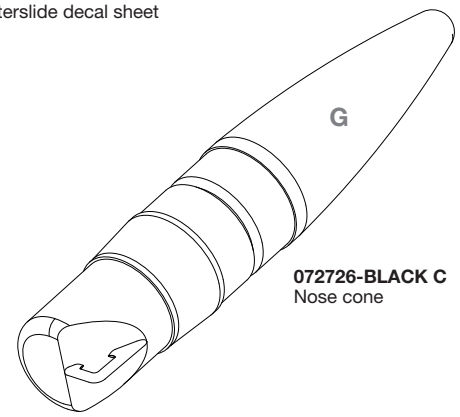


PLASTIC CEMENT | CLEAR TAPE | HOBBY KNIFE

PARTS



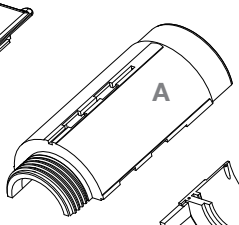
090001-7002
Waterslide decal sheet



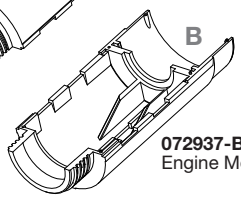
072726-BLACK C
Nose cone

072939-BLACK C x4
Fin

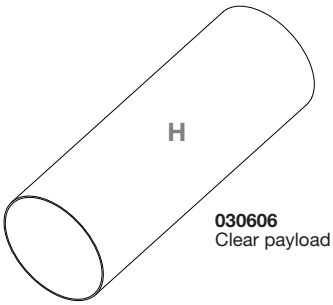




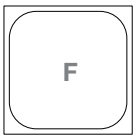
072936-BLACK C
Engine Mount A



072937-BLACK C
Engine Mount B



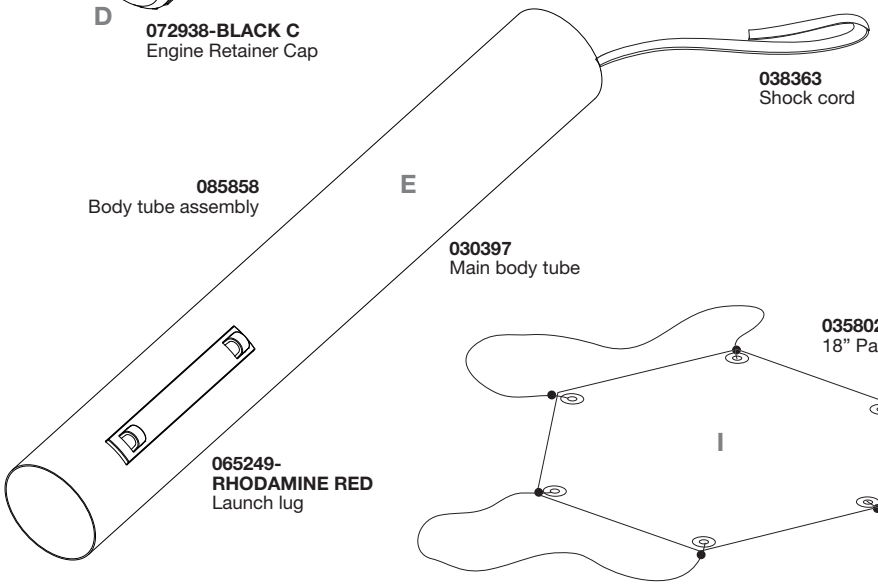
030606
Clear payload body tube



066459
Clear reinforcement tape



072938-BLACK C
Engine Retainer Cap



038363
Shock cord

085858
Body tube assembly

030397
Main body tube

065249-
RHODAMINE RED
Launch lug

035802
18” Parachute

ORBITRON
STEM ACTIVITY BOOK

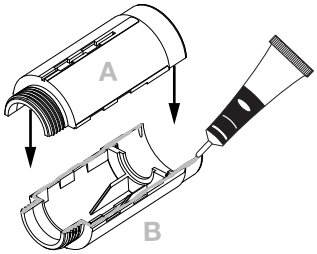
Scan the code below using your smartphone for access.

or download & print from your computer at:

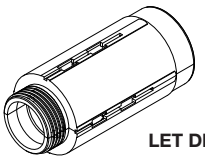
www.estesrockets.com/orbitron-stem-booklet

ASSEMBLE FIN CAN UNIT

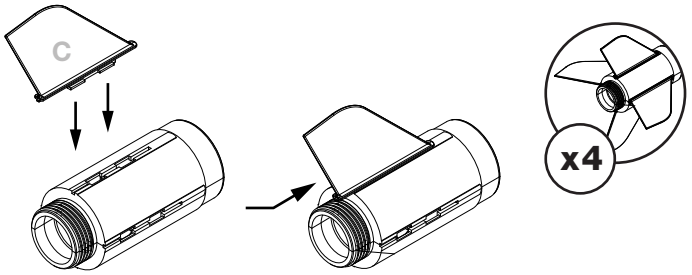
1. Apply plastic cement to edges of B.



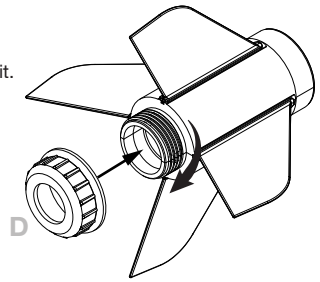
2. Press A and B together and hold for 20 seconds.



3. Insert fin C into slot and slide forward to lock into place. Repeat for remaining fins.



4. Screw engine retainer cap D onto fin can unit.

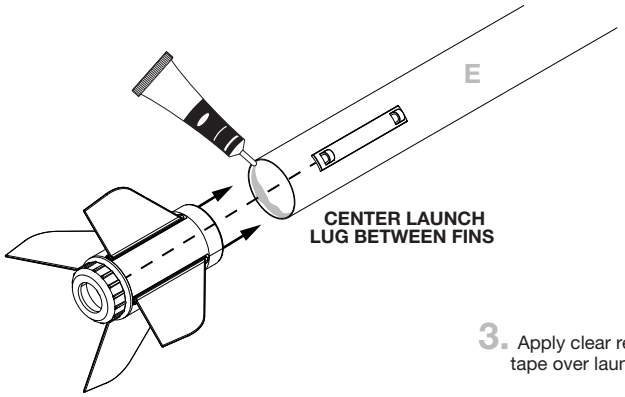


⚠ *CAUTION:*

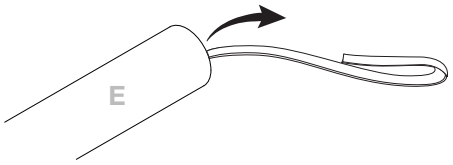
For safe handling of plastic cement, see manufacturer's warnings and follow instructions for use.

ATTACH BODY TUBE

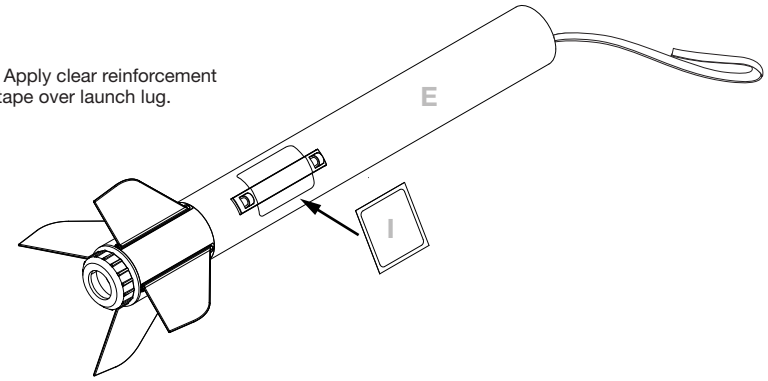
1. Apply plastic cement to inside of body tube E and insert fin can unit.



2. While glue is drying, pull shock cord out the front of body tube.

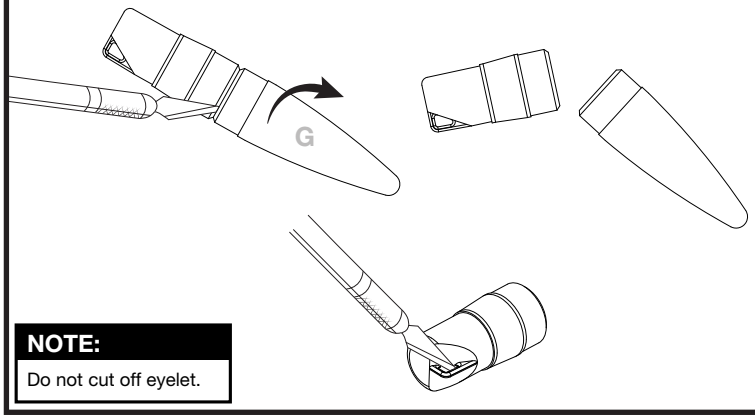


3. Apply clear reinforcement tape over launch lug.



ASSEMBLE PAYLOAD BAY

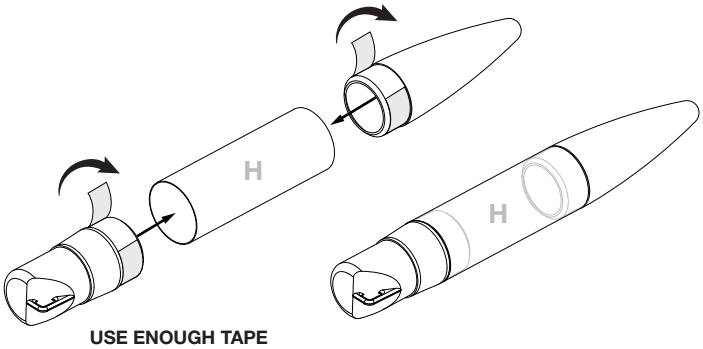
1. Hold hobby knife blade in groove of nose cone G. Apply light pressure and rotate nose cone until part seperates. Use hobby knife to hollow out eyelet.



NOTE:

Do not cut off eyelet.

2. Add tape to base of both nose cone pieces and insert pieces into both ends of clear payload tube H.



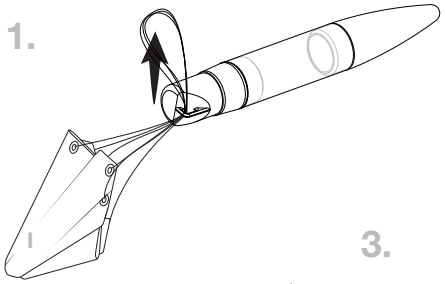
ROCKET FINISHING

1. Apply decals as desired.

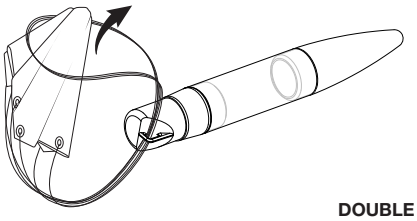


PREPARE FLIGHT RECOVERY

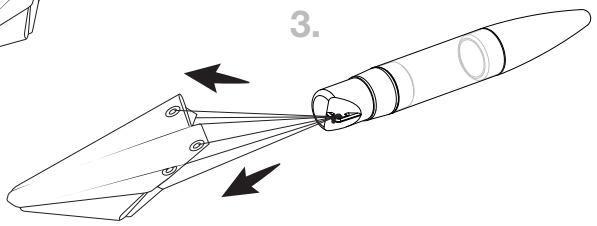
1.



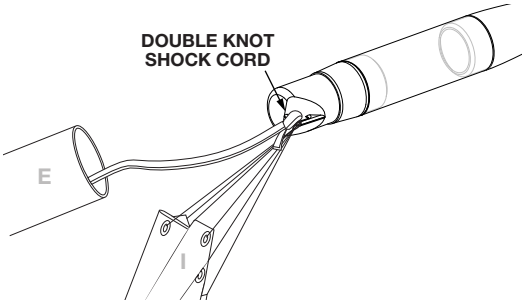
2.



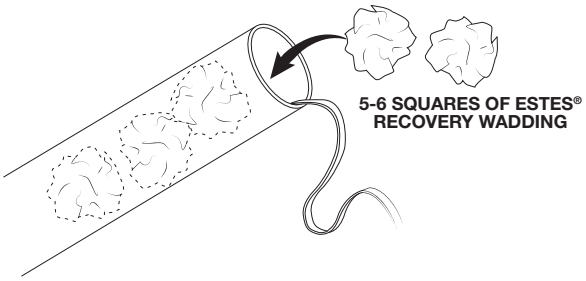
3.



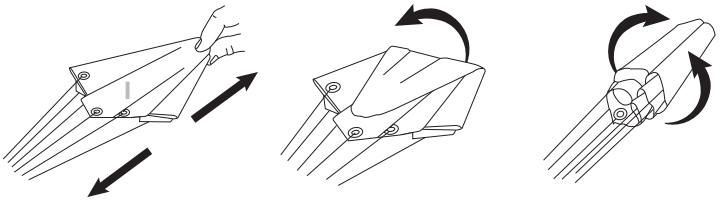
4.



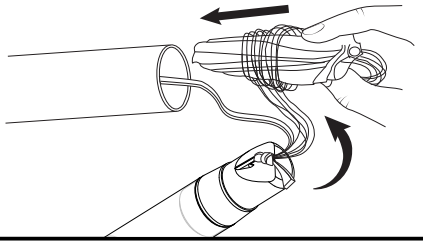
5. Push recovery wadding down towards bottom of body tube E.



6. Fold parachute as shown.



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



NOTE:

Recovery wadding and parachute must slide easily into body tube; redo if too tight.

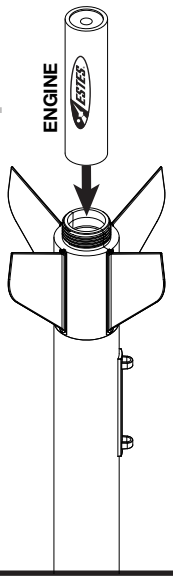
PREPARE ENGINE



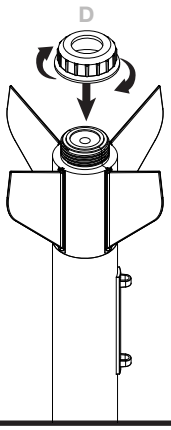
WARNING: FLAMMABLE

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.

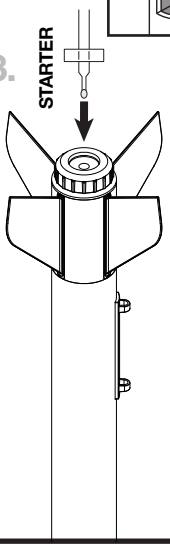
1.



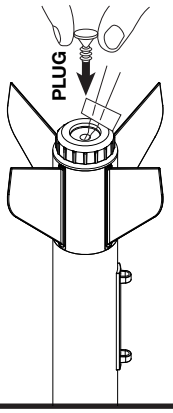
2.



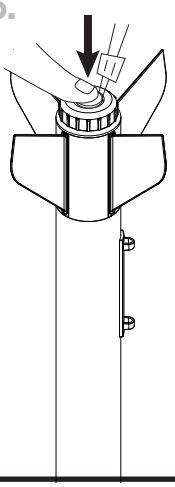
3.



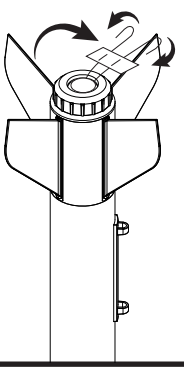
4.



5.



6.



COUNTDOWN AND LAUNCH

NOTE:

Key always out of controller until final countdown!



NOTE:

Estimated weight: 4.3 oz. (122 g)

ESTES® LAUNCH SUPPLIES NEEDED:

- Launch Pad
- 3/16" Maxi Rod
- Launch Controller
- Recovery Wadding
- Starters (with engines)
- Plugs (with engines)
- Estes® Engines: C11-3, C11-5, D12-5, D12-7

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 (1000 ft. [305 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.

© 2026 Estes Industries, LLC • All Rights Reserved

Estes Industries, LLC • 1295 H Street, Penrose, CO 81240-9698 • Made in Guangzhou, Guangdong, China PN 090004-5305 (4-26)

22 PAP