MINI GOBLIN™

2106

EstesRockets.com



AGES 10+

Skill Level
INTERMEDIATE

MODEL ROCKET INSTRUCTIONS

KEEP FOR FUTURE REFERENCE

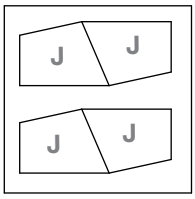
IMPORTANT: Please record date found on decal and keep for future reference. _____

⚠ 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.*

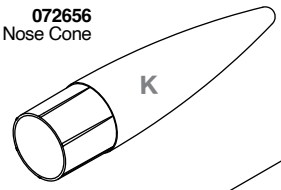
SUPPLIES



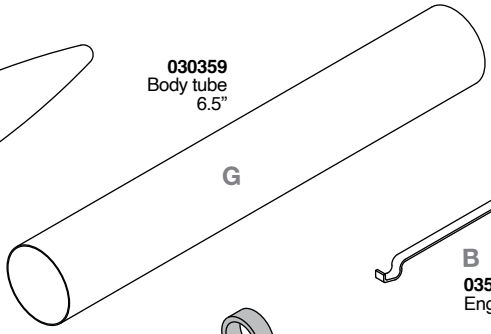
PENCIL | FINE SANDPAPER | RULER | YELLOW GLUE | HOBBY KNIFE | WHITE PRIMER | YELLOW & BLACK PAINT | CLEAR COAT (OPTIONAL) | PLASTIC CEMENT | MASKING TAPE | SCISSORS



090051-2106
Laser cut balsa fins



072656
Nose Cone



030359
Body tube
6.5"



H
038175
Launch lug



090001-2106
Waterslide decal sheet

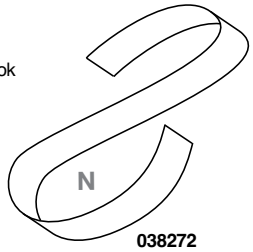
B
035023
Engine hook



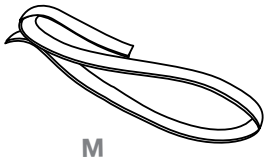
I
072654
Nose cone pin



C
030222-4
Yellow engine block

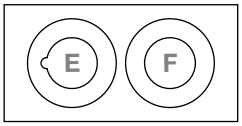


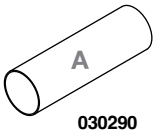
038272
Streamer



M
038364
Shock cord

30118
Laser cut centering rings





030290
Engine mount tube 1.75"



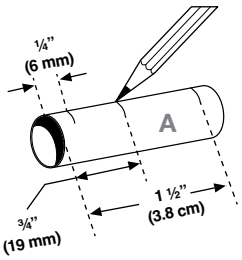
D
030167
Mylar engine hook retainer ring



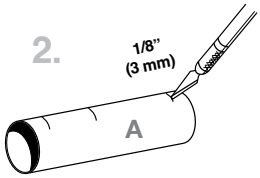
L
073237
Shock cord anchor

ASSEMBLE ENGINE MOUNT

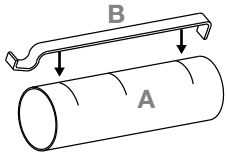
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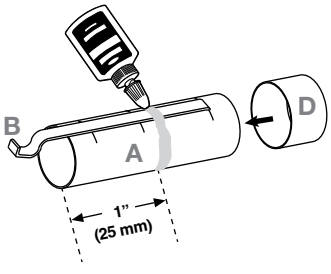


2.

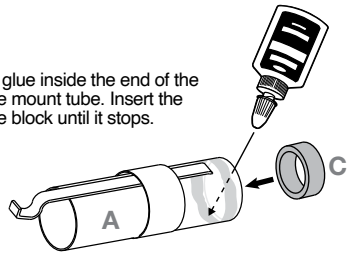


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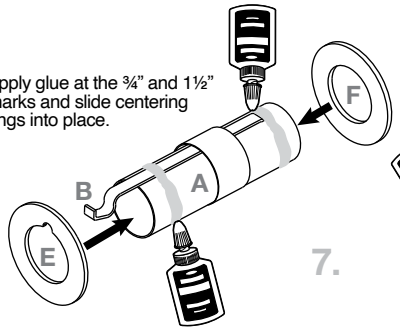




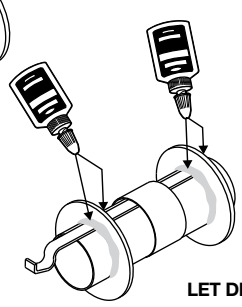
5. Apply glue inside the end of the engine mount tube. Insert the engine block until it stops.



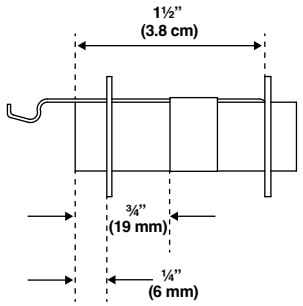
6. Apply glue at the ¾" and 1½" marks and slide centering rings into place.



7.

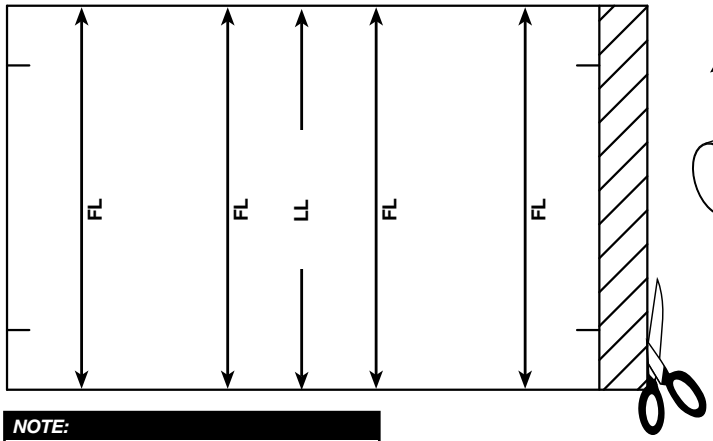


LET DRY



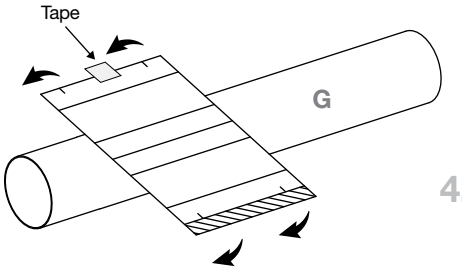
TUBE MARKING GUIDE

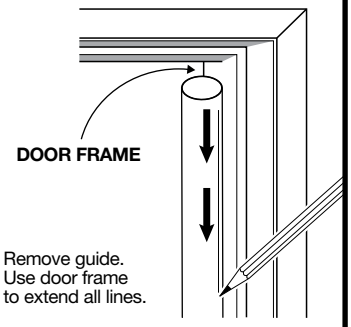
1. Cut out tube marking guide below.



NOTE:
Make a copy if you want to keep instructions.

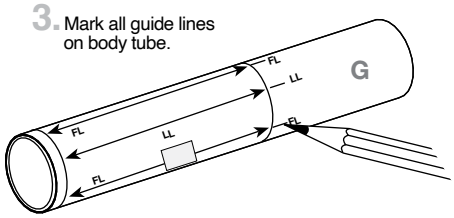
2. Wrap tube marking guide around end of body tube.





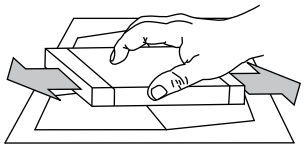
4. Remove guide. Use door frame to extend all lines.

3. Mark all guide lines on body tube.

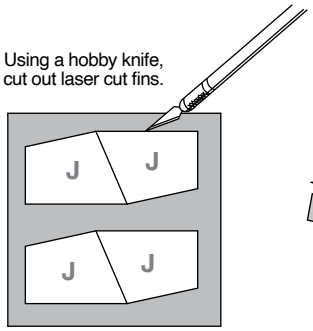


PREPARE FINS

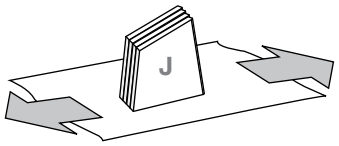
1. Sand both sides of laser cut fins.



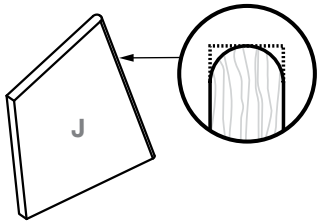
2. Using a hobby knife, cut out laser cut fins.



3. Stack fins together and sand all edges.

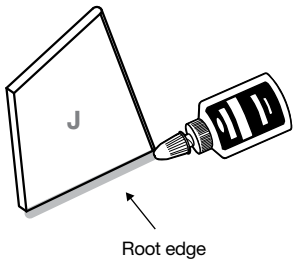


4. Round the leading edge of all fins.

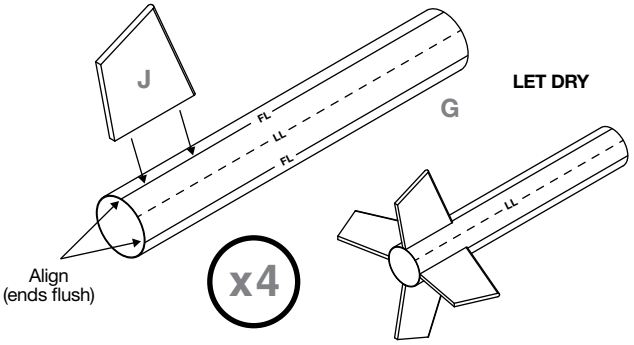


ATTACH FINS

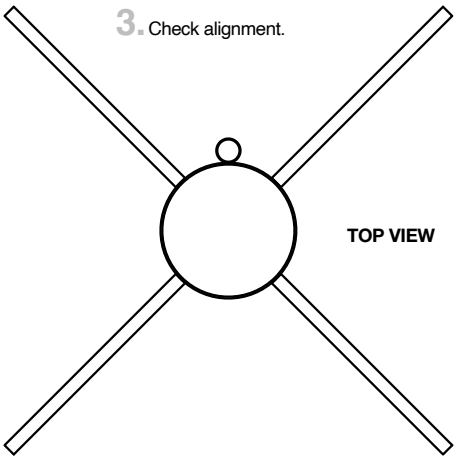
1. Apply thin layer of glue to root edge of fin. Let dry 1 minute and apply another thin layer.



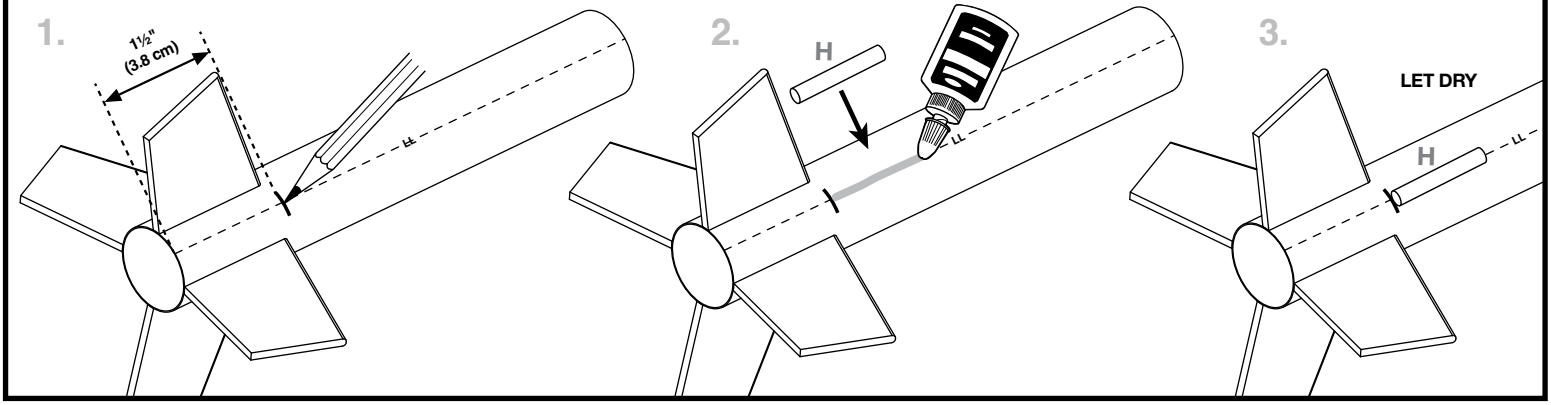
2. Carefully align fins to the fin lines (FL) marked on the body tube. Align the bottom of the root edge of the fin with the bottom of the body tube.



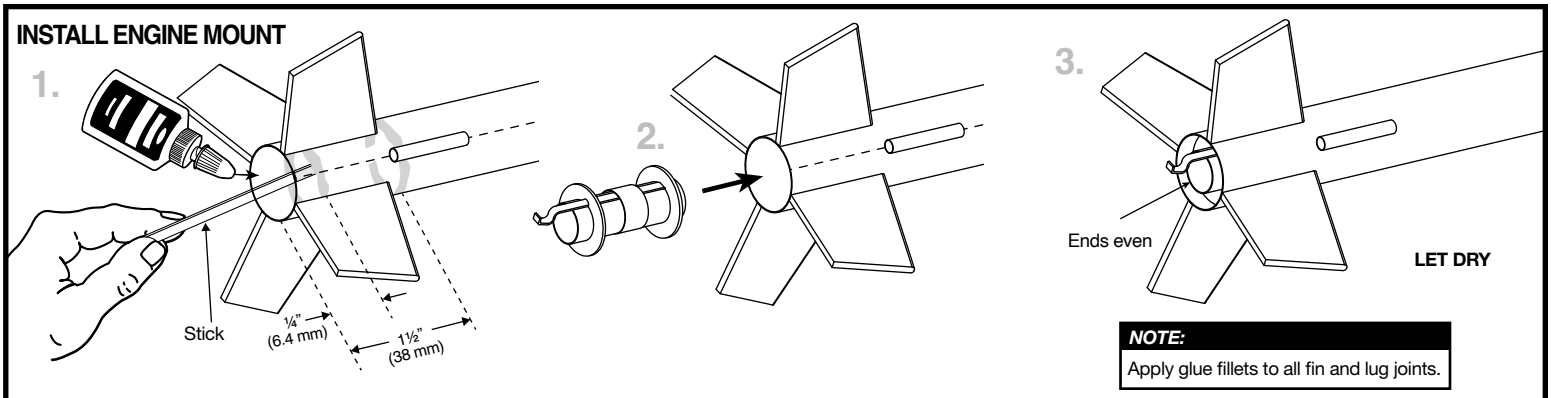
3. Check alignment.



ATTACH LAUNCH LUG

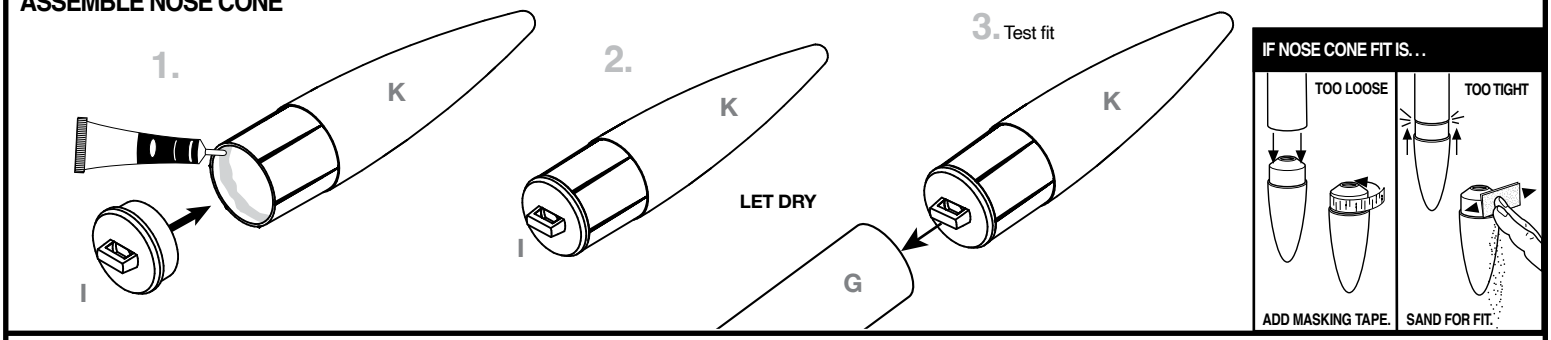


INSTALL ENGINE MOUNT

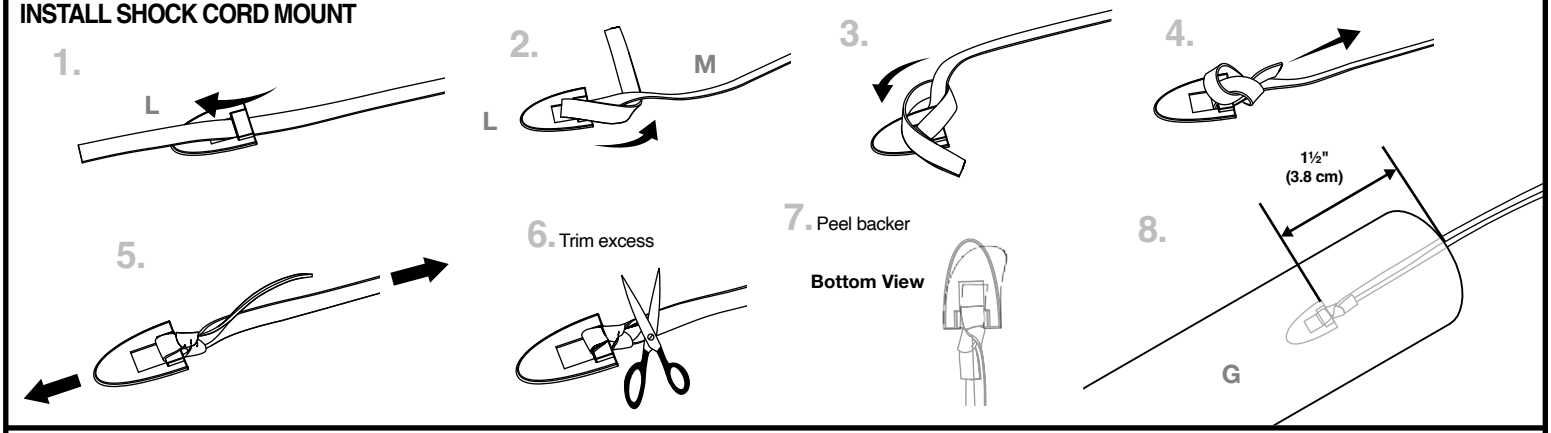


NOTE:
Apply glue fillets to all fin and lug joints.

ASSEMBLE NOSE CONE



INSTALL SHOCK CORD MOUNT

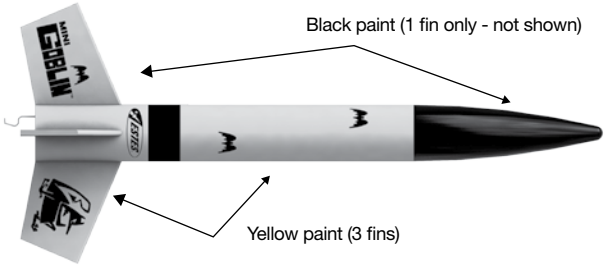


ROCKET FINISHING

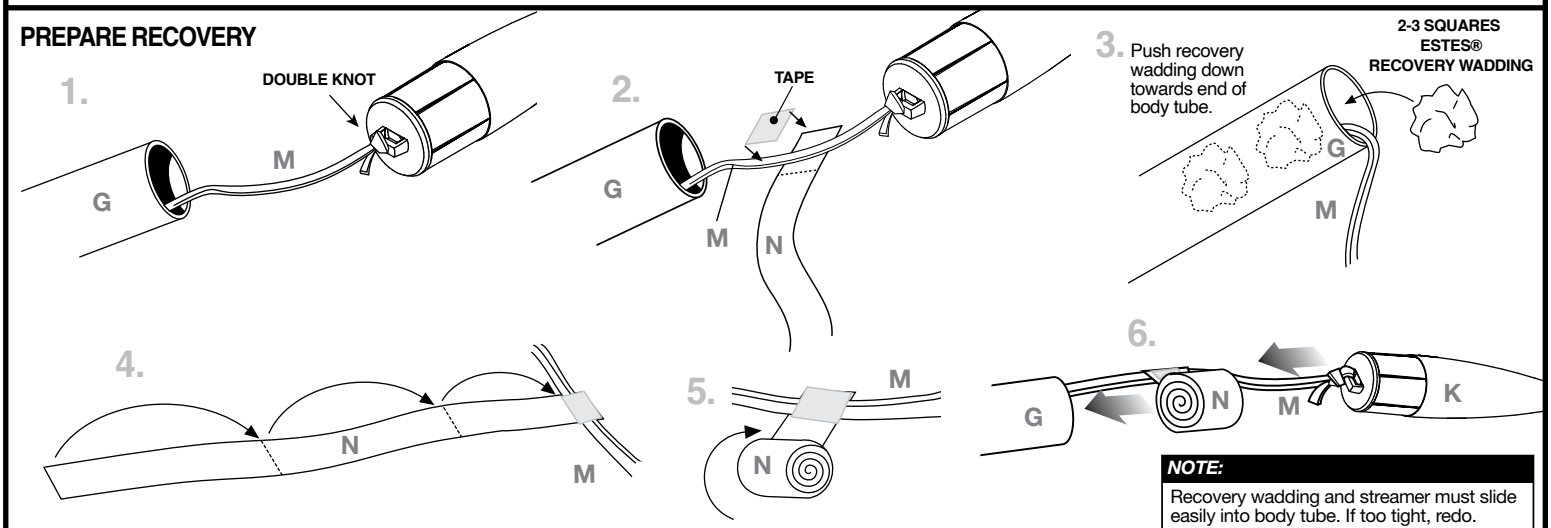
Spray rocket with white primer, let dry & sand. Repeat until rocket is smooth, then paint. Apply decals after paint is dry.

1. Cut decals from sheet, trimming close to edge.
2. One at a time, place in warm water until decal curls and begins to relax.
3. Remove and position on rocket, sliding decal away from backing material.
4. Blot with clean paper towel. Let set overnight.
5. Optional: apply protective clear coat.

Please refer to packaging image for suggested paint scheme and/or decal placement.

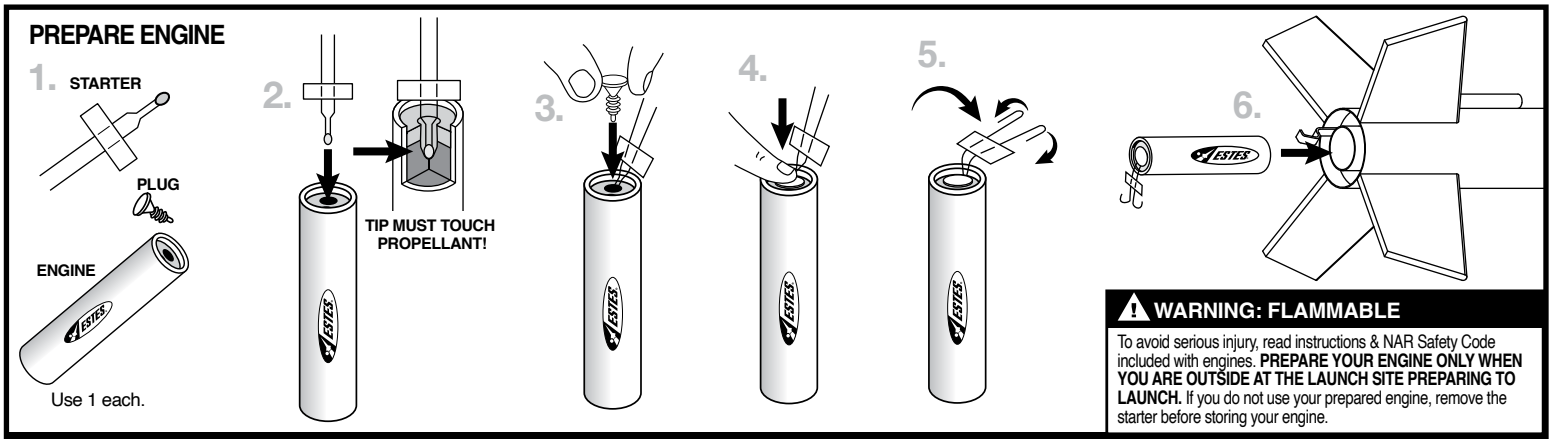


PREPARE RECOVERY



NOTE:
Recovery wadding and streamer must slide easily into body tube. If too tight, redo.

PREPARE ENGINE



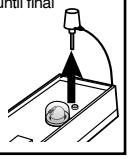
⚠ WARNING: FLAMMABLE

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.

COUNTDOWN AND LAUNCH

NOTE:

Key always out until final countdown!



NOTE:

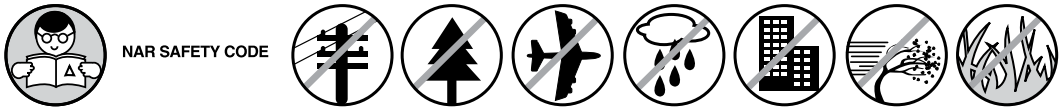
Estimated weight: 1.1 oz. (31.2 g)

ESTES® LAUNCH SUPPLIES NEEDED

(Sold separately)

- Porta Pad® II Launch Pad
- Launch Controller
- Recovery Wadding
- Starters (with engines)
- Plugs (with engines)
- Estes® Engines: 1/2A3-2T, A3-4T, A10-3T

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.

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