



EstesRockets.com

ANTAR™

7310



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. Test fit all parts before applying glue.

SUPPLIES



SCISSORS



PENCIL



RULER



YELLOW GLUE



HOBBY KNIFE



MASKING TAPE



PRIMER (WHITE)



PAINT RUST-OLEUM
(WHITE, SILVER,
DEEP FOREST)



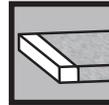
CLEAR COAT
(OPTIONAL)



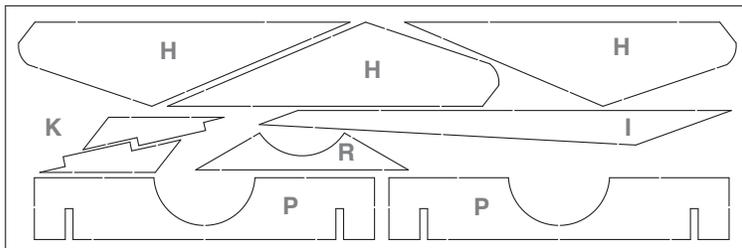
WAX PAPER



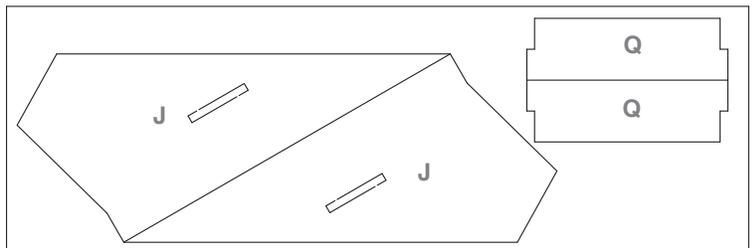
FINE SANDPAPER



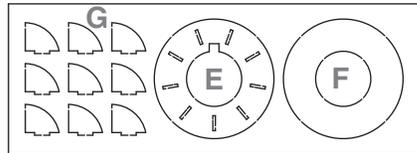
SAND BLOCK



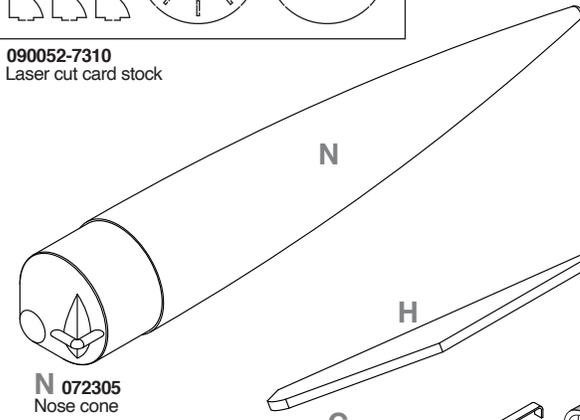
095001A-7310
Laser cut wood sheet



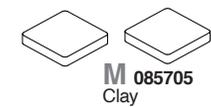
095001B-7310
Laser cut wood sheet



090052-7310
Laser cut card stock



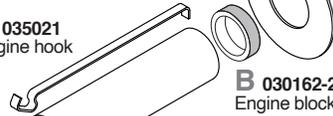
N 072305
Nose cone



M 085705
Clay



C 035021
Engine hook



B 030162-2
Engine block (green)

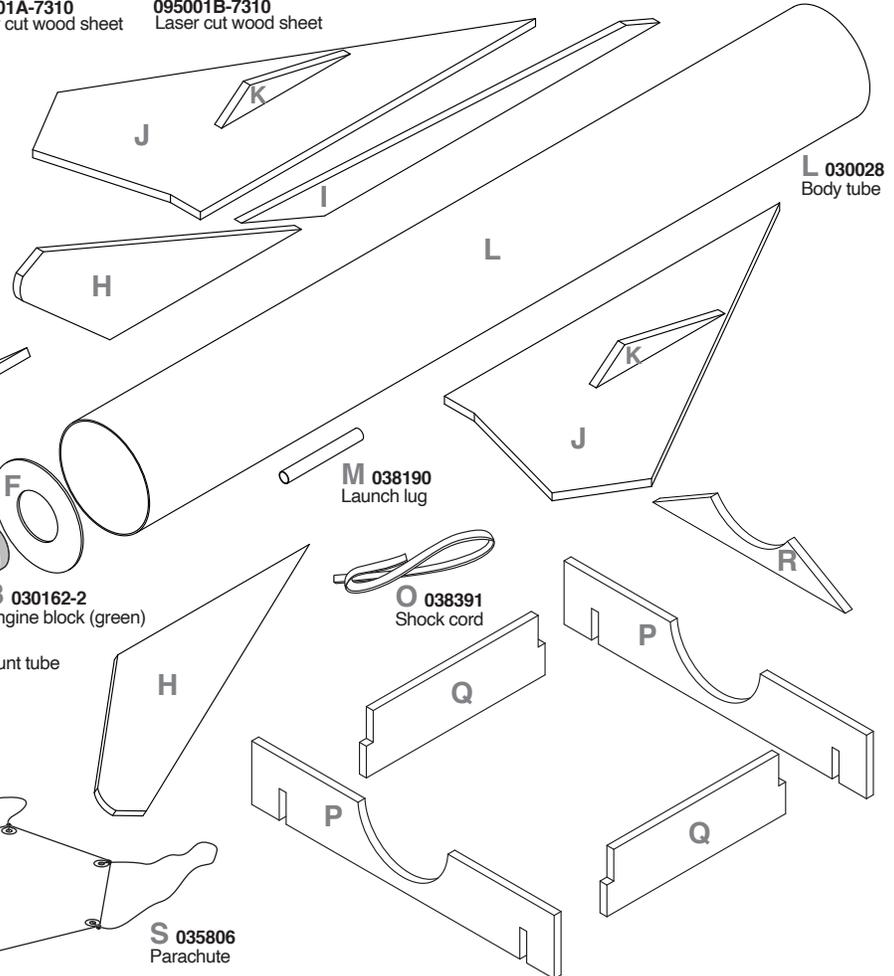
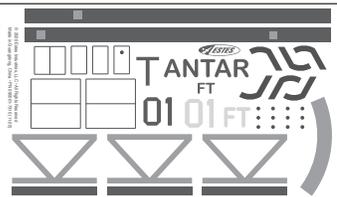


A 030408
Engine mount tube



D 030168
Retainer ring

090001-7310
Waterslide decal



L 030028
Body tube

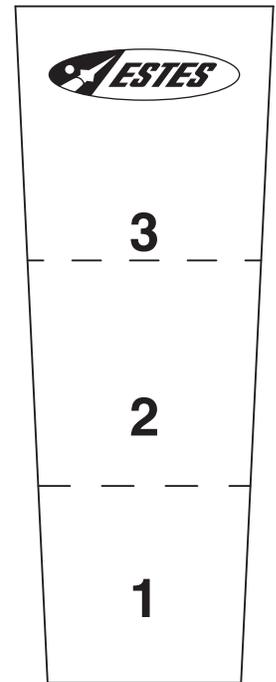
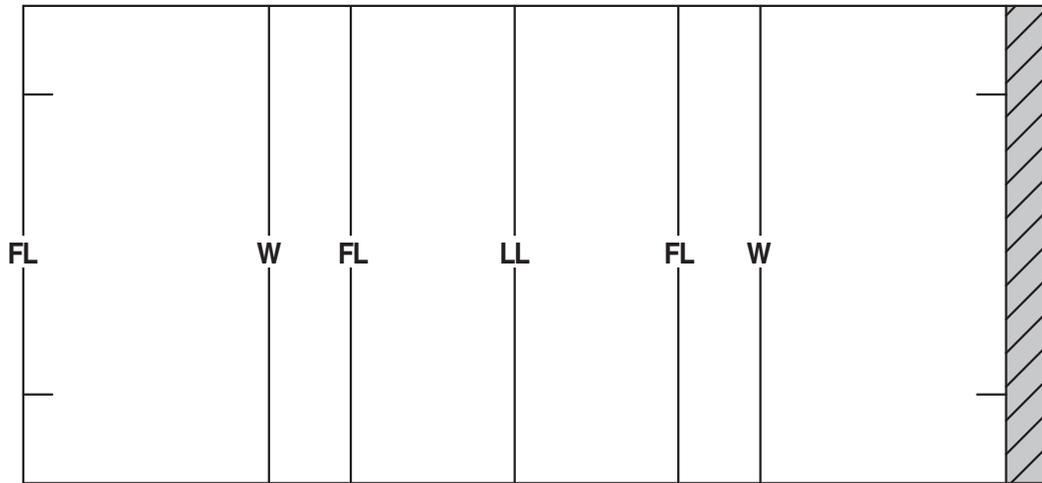
M 038190
Launch lug

O 038391
Shock cord

S 035806
Parachute

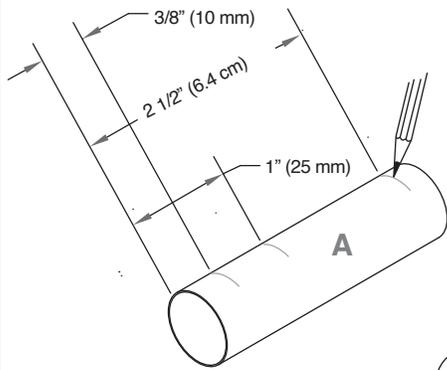
TUBE MARKING GUIDE AND SHOCK CORD MOUNT

Make a copy if you want to keep instructions.

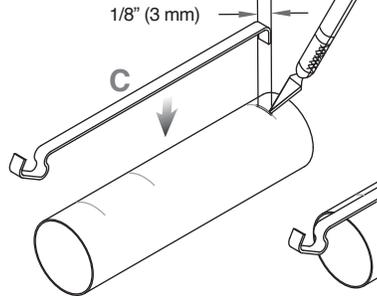


ASSEMBLE ENGINE MOUNT

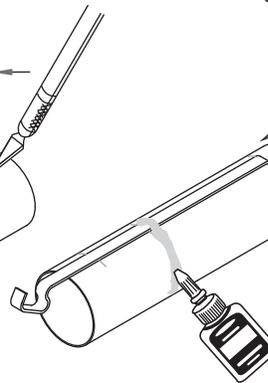
1. Mark **A** as shown.



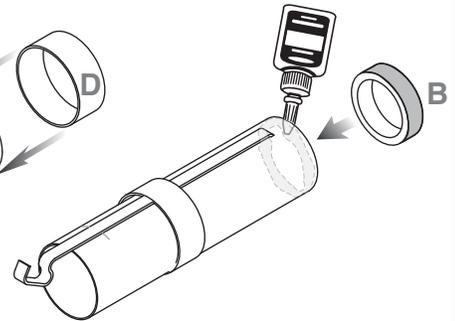
2. Use a hobby knife to make a 1/8" (3 mm) slit into **A** as shown. Insert the end of **C** into the slit.



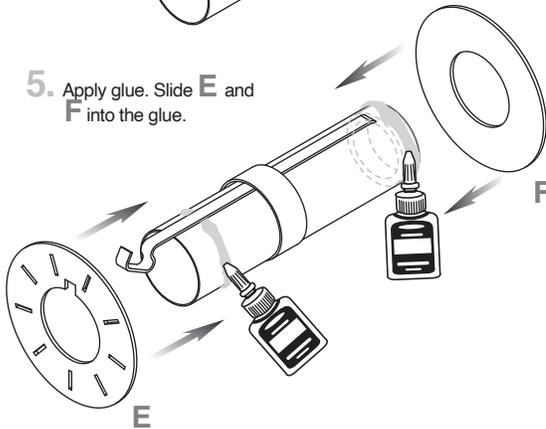
3. Apply glue as shown. Slide **D** into glue.



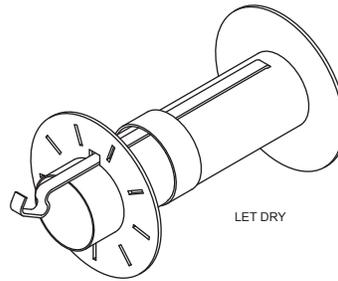
4. Apply glue inside **A** as shown and insert **B**.



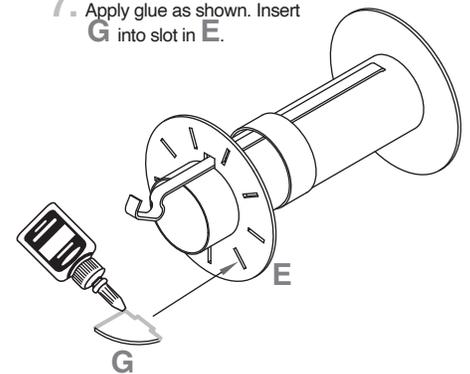
5. Apply glue. Slide **E** and **F** into the glue.



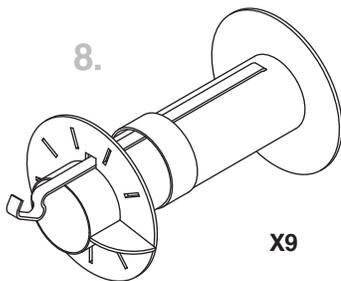
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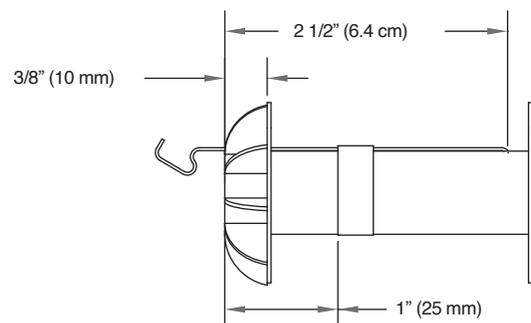
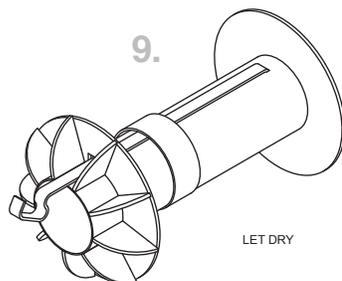
7. Apply glue as shown. Insert **G** into slot in **E**.



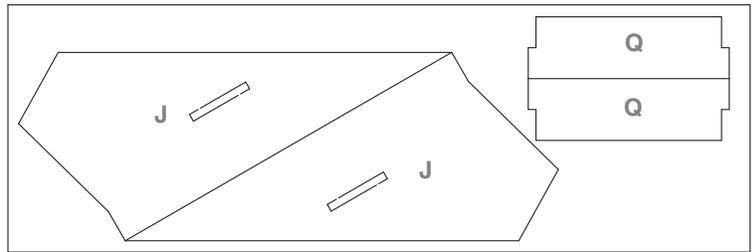
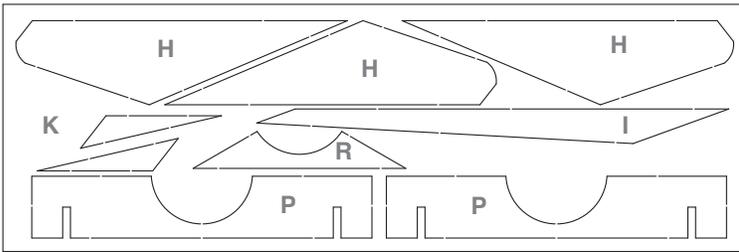
8.



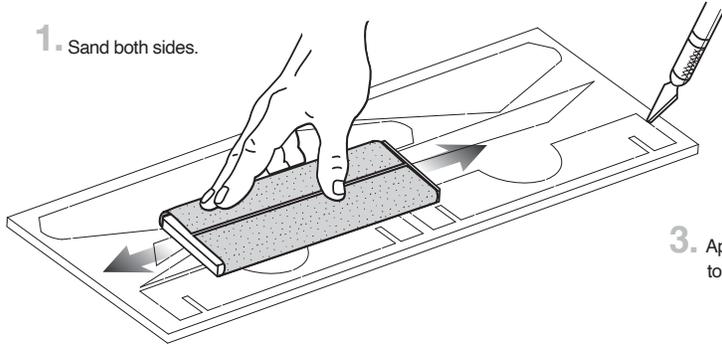
9.



PREPARE WOOD PARTS



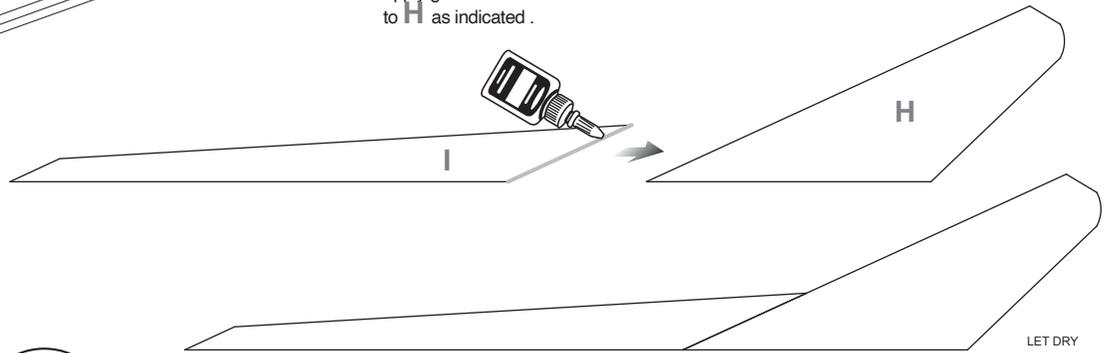
1. Sand both sides.



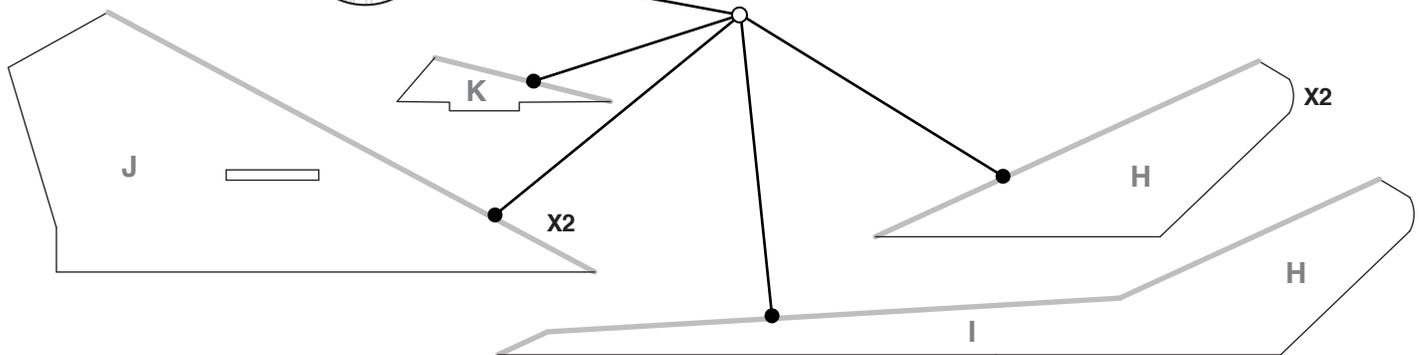
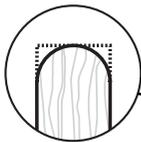
2. Carefully remove with hobby knife.

NOTE:
Assemble and glue on a flat surface covered with wax paper

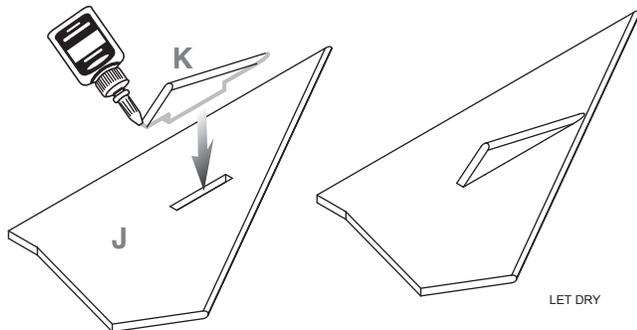
3. Apply glue to I and attach to H as indicated.



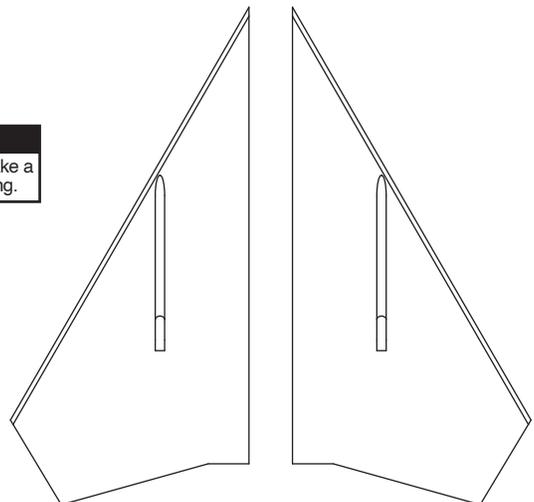
4. Round these edges.



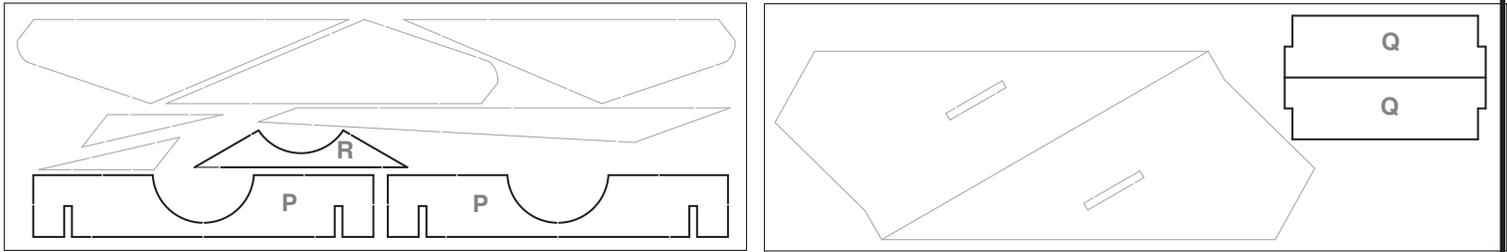
5. Apply glue to K and insert into J as shown.



NOTE:
Be sure you make a left and right wing.

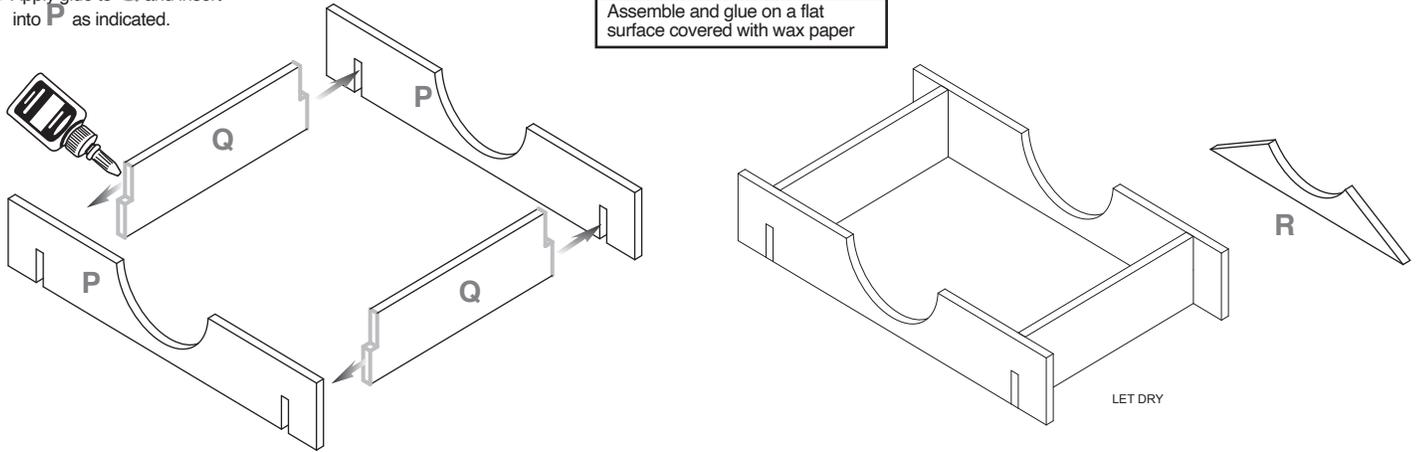


ASSEMBLE ROCKET CRADLE

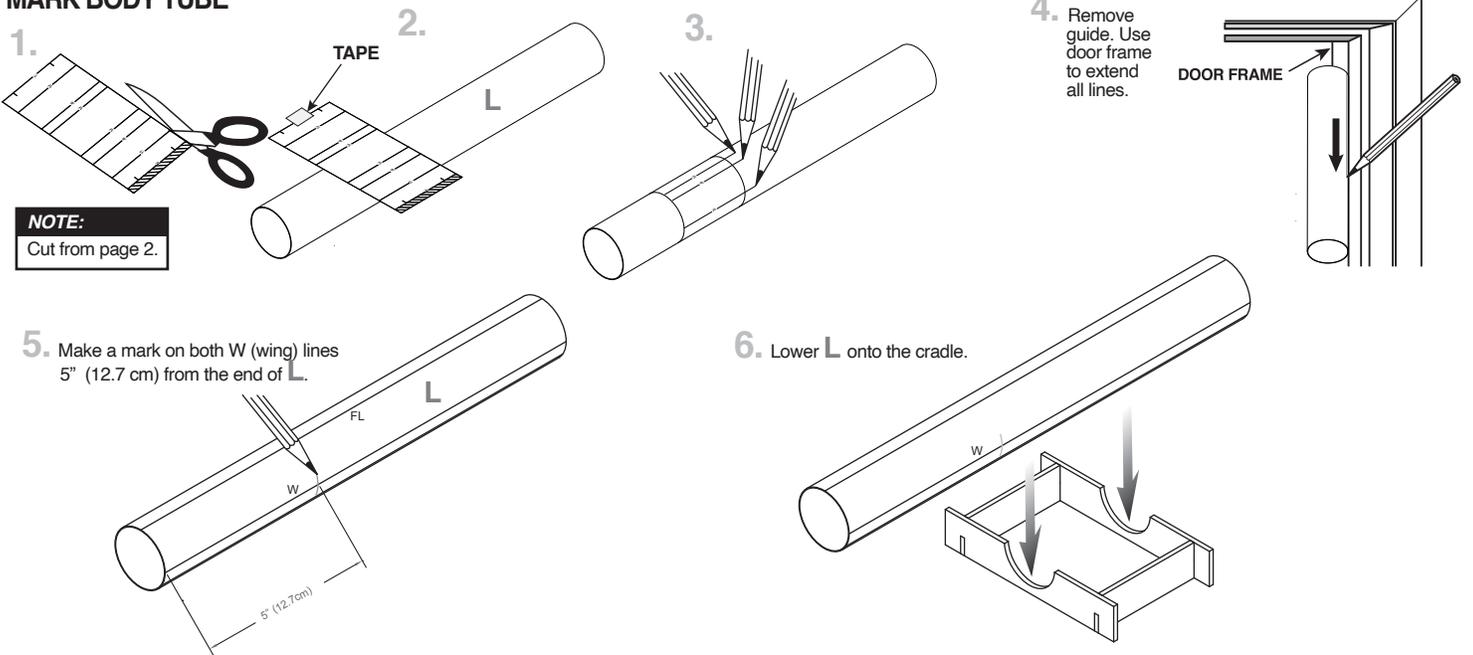


1. Apply glue to **Q** and insert into **P** as indicated.

NOTE:
Assemble and glue on a flat surface covered with wax paper



MARK BODY TUBE



NOTE:
Cut from page 2.

5. Make a mark on both **W** (wing) lines 5" (12.7 cm) from the end of **L**.

6. Lower **L** onto the cradle.

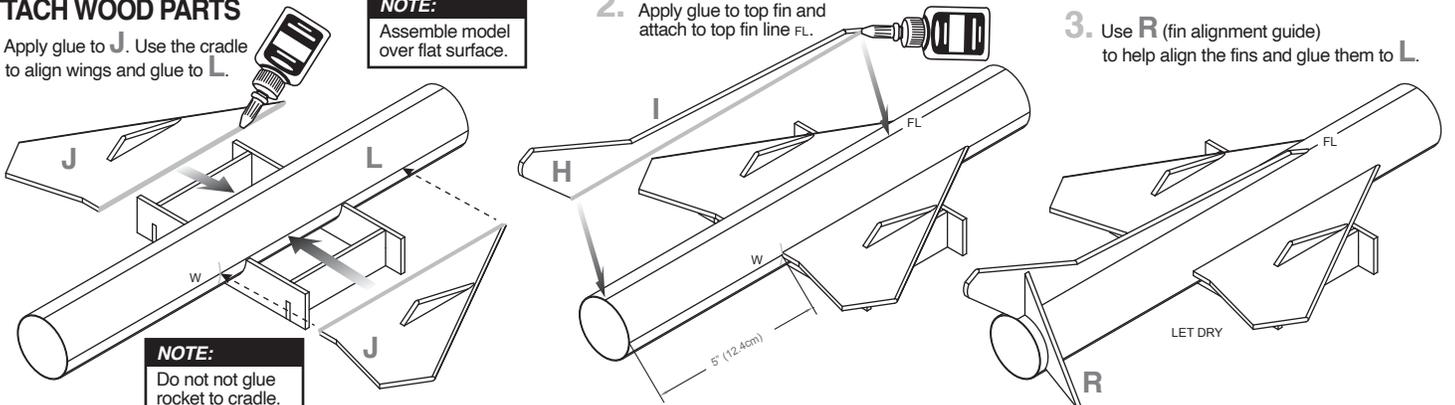
ATTACH WOOD PARTS

1. Apply glue to **J**. Use the cradle to align wings and glue to **L**.

NOTE:
Assemble model over flat surface.

2. Apply glue to top fin and attach to top fin line **FL**.

3. Use **R** (fin alignment guide) to help align the fins and glue them to **L**.

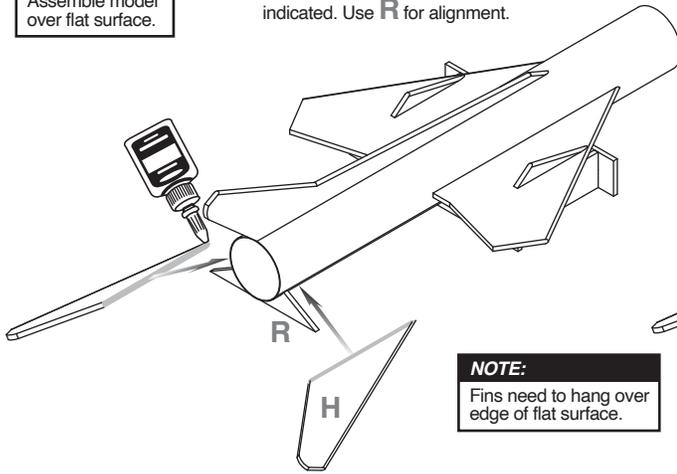


NOTE:
Do not glue rocket to cradle.

ATTACH TAIL FINS

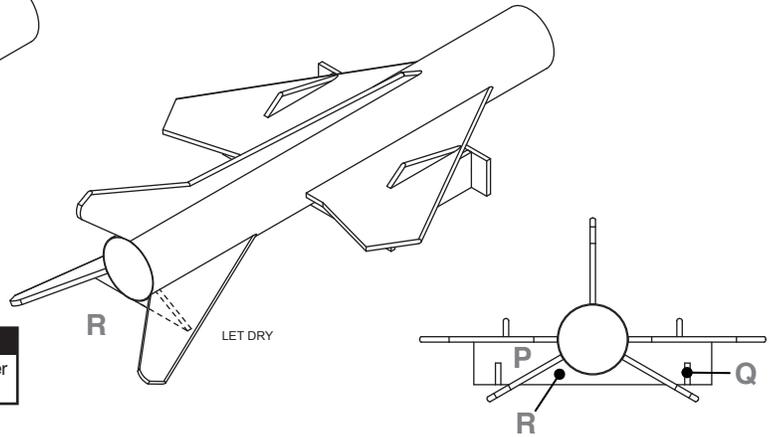
NOTE:
Assemble model
over flat surface.

1. Use glue to attach both **H** as indicated. Use **R** for alignment.



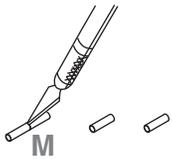
NOTE:
Fins need to hang over
edge of flat surface.

2.

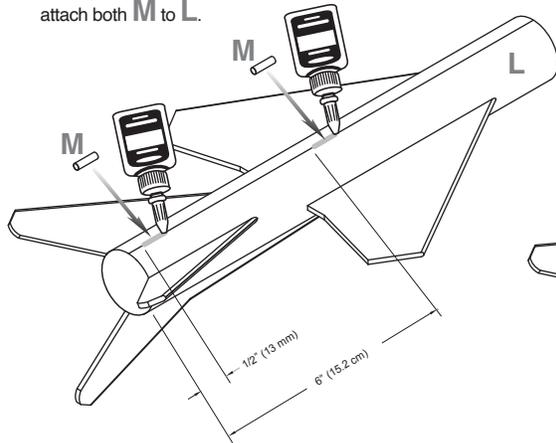


ATTACH LAUNCH LUGS

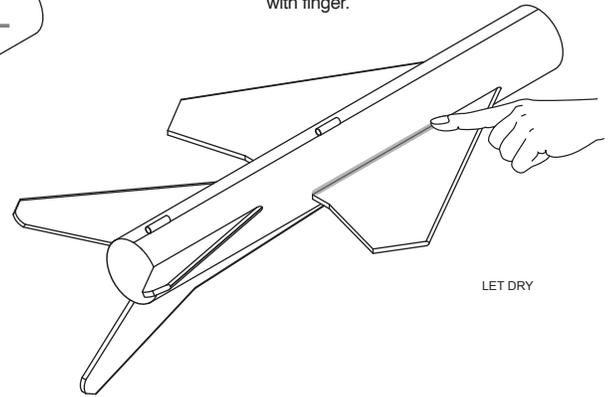
1. Cut **M** into two equal pieces.



2. Apply glue as indicated and attach both **M** to **L**.

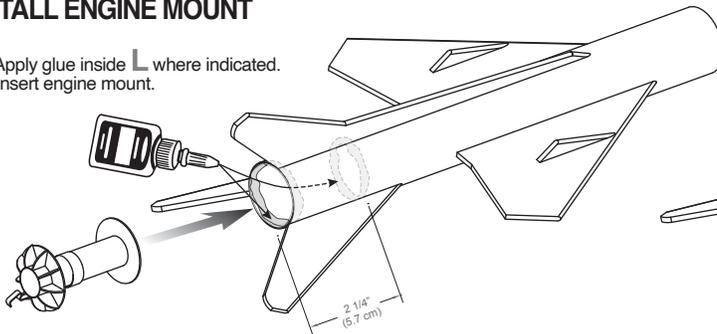


3. Apply glue fillets to all joints. Smooth with finger.

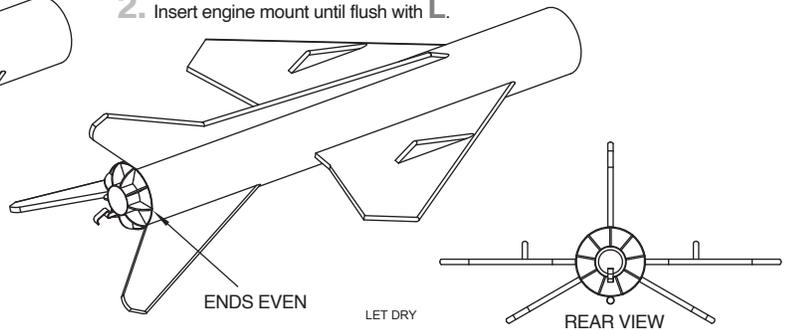


INSTALL ENGINE MOUNT

1. Apply glue inside **L** where indicated. Insert engine mount.

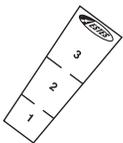


2. Insert engine mount until flush with **L**.



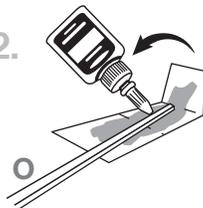
ATTACH SHOCK CORD

1.

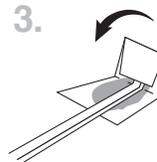


NOTE:
Cut from page 2.

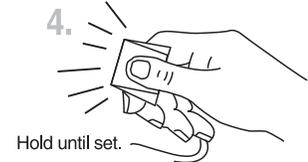
2.



3.



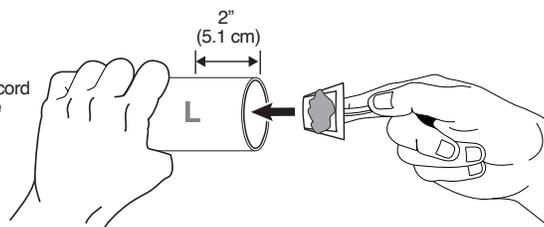
4.



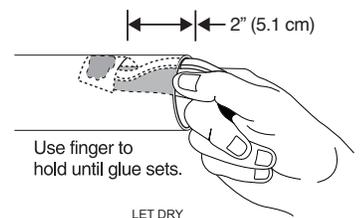
5.



6. Glue shock cord mount to the inside of **L**.

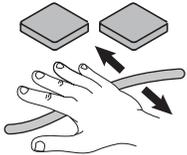


7.

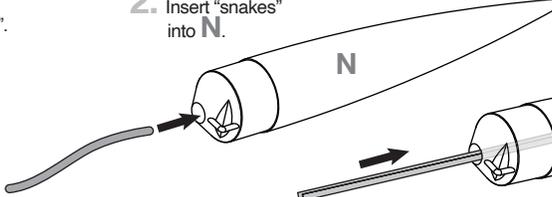


INSTALL CLAY NOSE WEIGHT

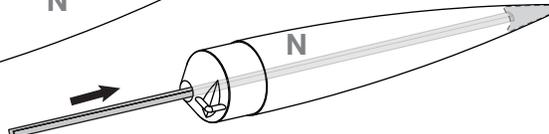
1. Roll **M** into "snakes".



2. Insert "snakes" into **N**.

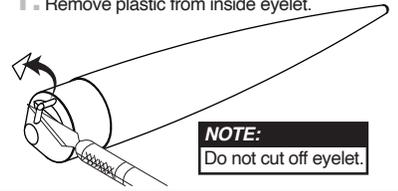


3. Use dowel rod, launch rod or similar tool to push **M** into tip of **N**.



PREPARE NOSE CONE

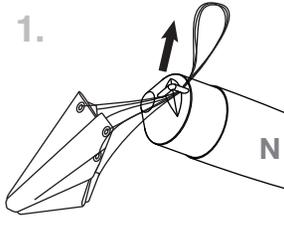
1. Remove plastic from inside eyelet.



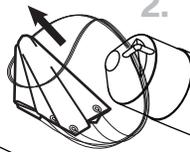
NOTE:
Do not cut off eyelet.

ATTACH PARACHUTE AND SHOCK CORD

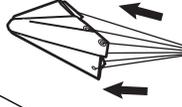
1.



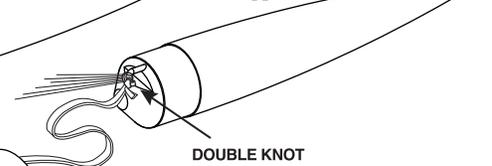
2.



3.



4.



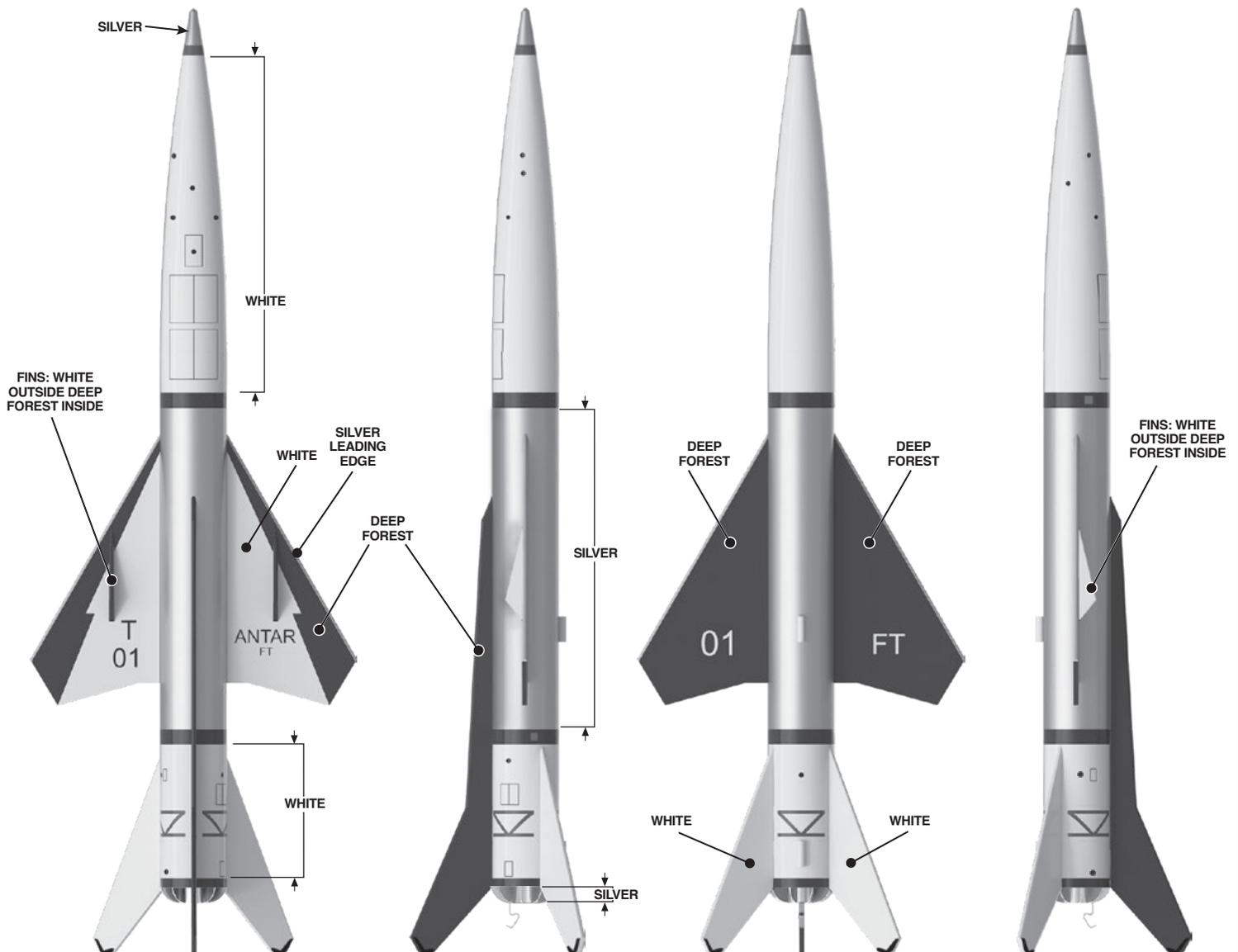
DOUBLE KNOT

ROCKET FINISHING

1. Spray rocket with white primer, let dry, and sand. Repeat until rocket is smooth, then paint. Apply decals after paint is dry.
2. Cut decals from sheet, trimming close to edge.
3. One at a time, place in warm water until decal curls and begins to relax.
4. Remove and position on rocket, sliding decal away from backing material.
5. Blot with clean paper towel. Let set overnight.
6. OPTIONAL: Apply protective clear coat.

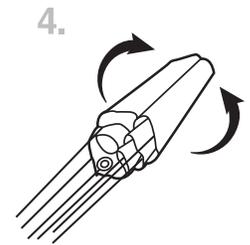
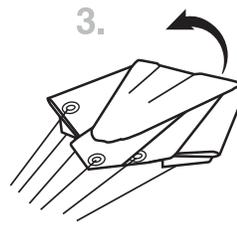
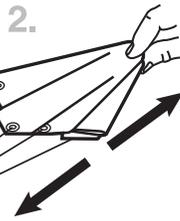
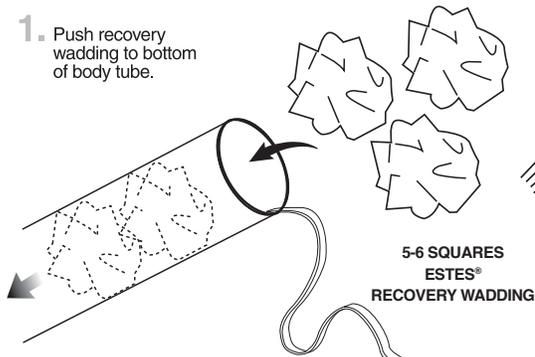
NOTE:

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



PREPARE FLIGHT RECOVERY

1. Push recovery wadding to bottom of body tube.

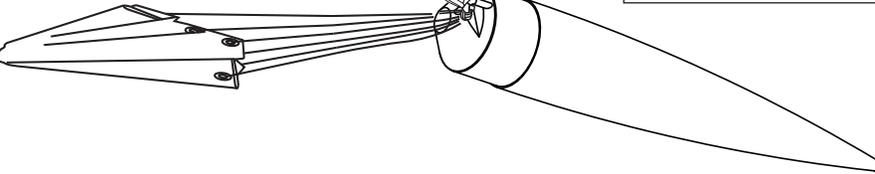


5. Wrap shroud lines loosely and insert parachute into body tube.

NOTE:

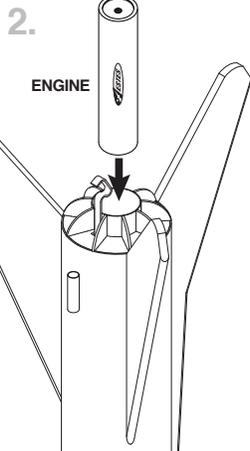
Recovery wadding and parachute must slide easily into body tube. If too tight, redo.

6. Insert nose cone into body tube.

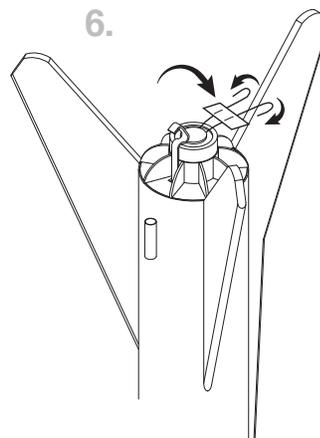
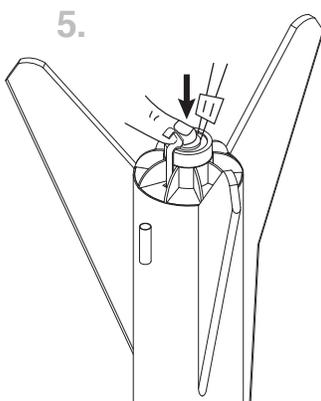
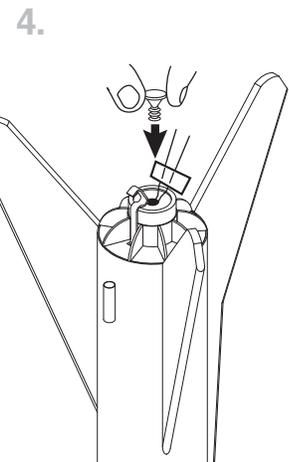
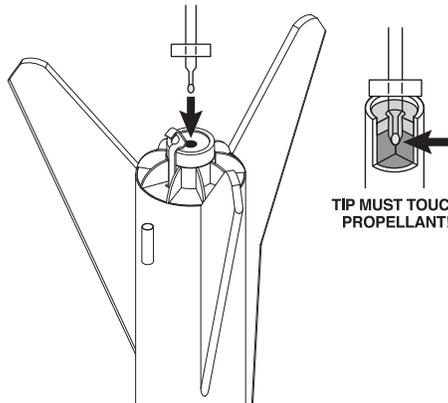


PREPARE ENGINE

1. **STARTER**
PLUG
Use 1 each.



3. Insert starter all the way into engine nozzle.

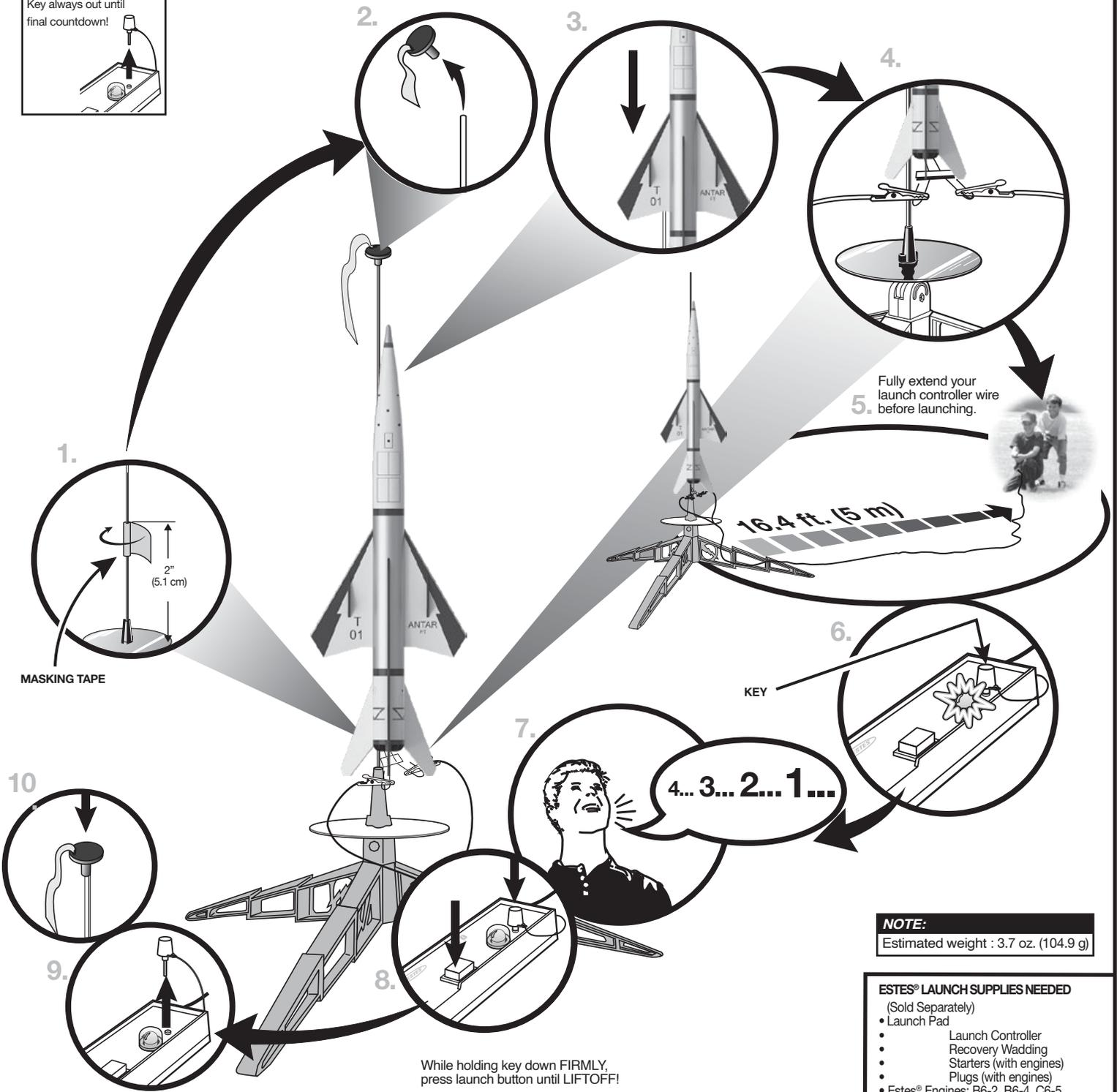


⚠ WARNING: FLAMMABLE

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 : 3.7 oz. (104.9 g)

- ESTES® LAUNCH SUPPLIES NEEDED**
(Sold Separately)
- Launch Pad
 - Launch Controller
 - Recovery Wadding
 - Starters (with engines)
 - Plugs (with engines)
 - Estes® Engines: B6-2, 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. Football fields and playgrounds are great. Launch only with little or no wind and good visibility. Always follow the National Association of Rocketry 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.



PAP