



EstesRockets.com

SUPER MARS SNOOPER™

7309



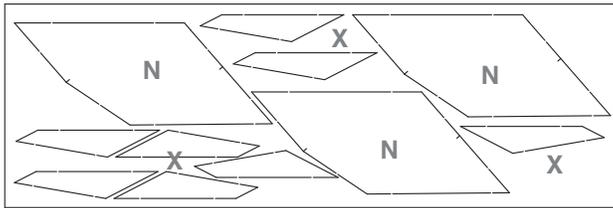
MODEL ROCKET INSTRUCTIONS

KEEP FOR FUTURE REFERENCE

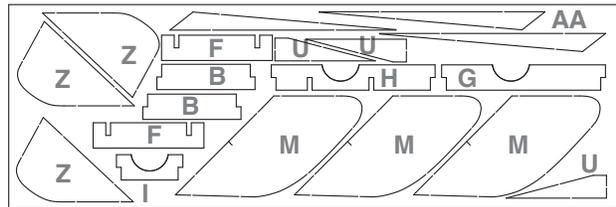
IMPORTANT: Please record date found on decal and keep for future reference. _____

Read all instructions. Make sure you have all parts and supplies. Test fit all parts before applying glue.

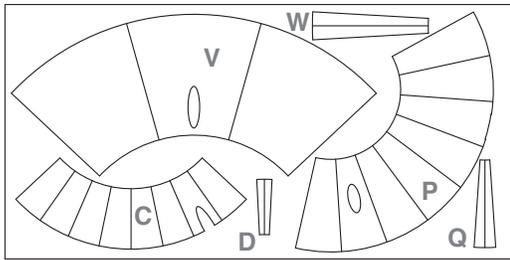
SUPPLIES



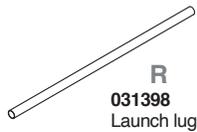
090051A-7309
Laser cut wood sheet



090051B-7309
Laser cut wood sheet



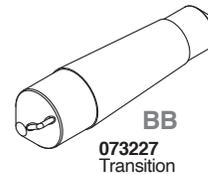
090058-7309
Printed index stock



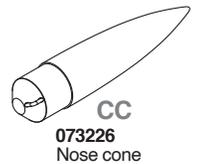
R
031398
Launch lug



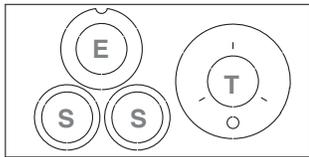
B
030164-2
Green engine block



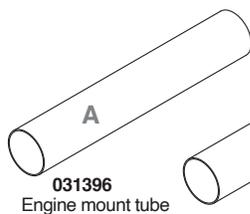
BB
073227
Transition



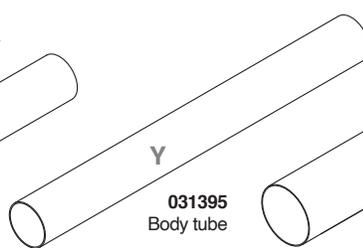
CC
073226
Nose cone



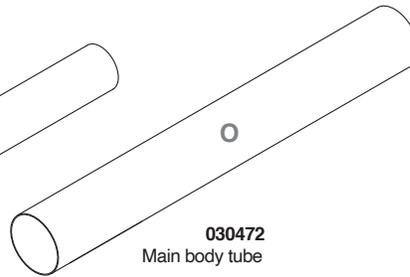
090052-7309
Laser cut card stock



A
031396
Engine mount tube



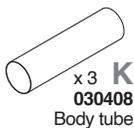
Y
031395
Body tube



O
030472
Main body tube



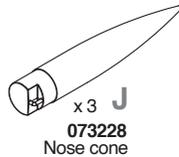
GG
035004
Yellow spacer tool



x3 K
030408
Body tube



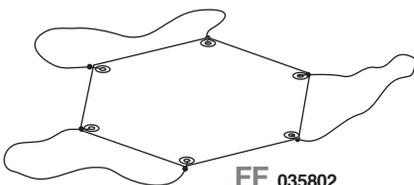
x3 L
073229
Nose cone



x3 J
073228
Nose cone



DD
072417
Engine retainer set



FF 035802
Parachute



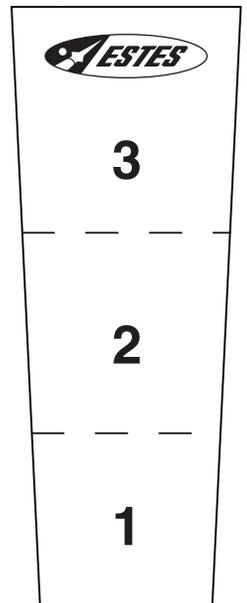
EE 038363
Shock cord



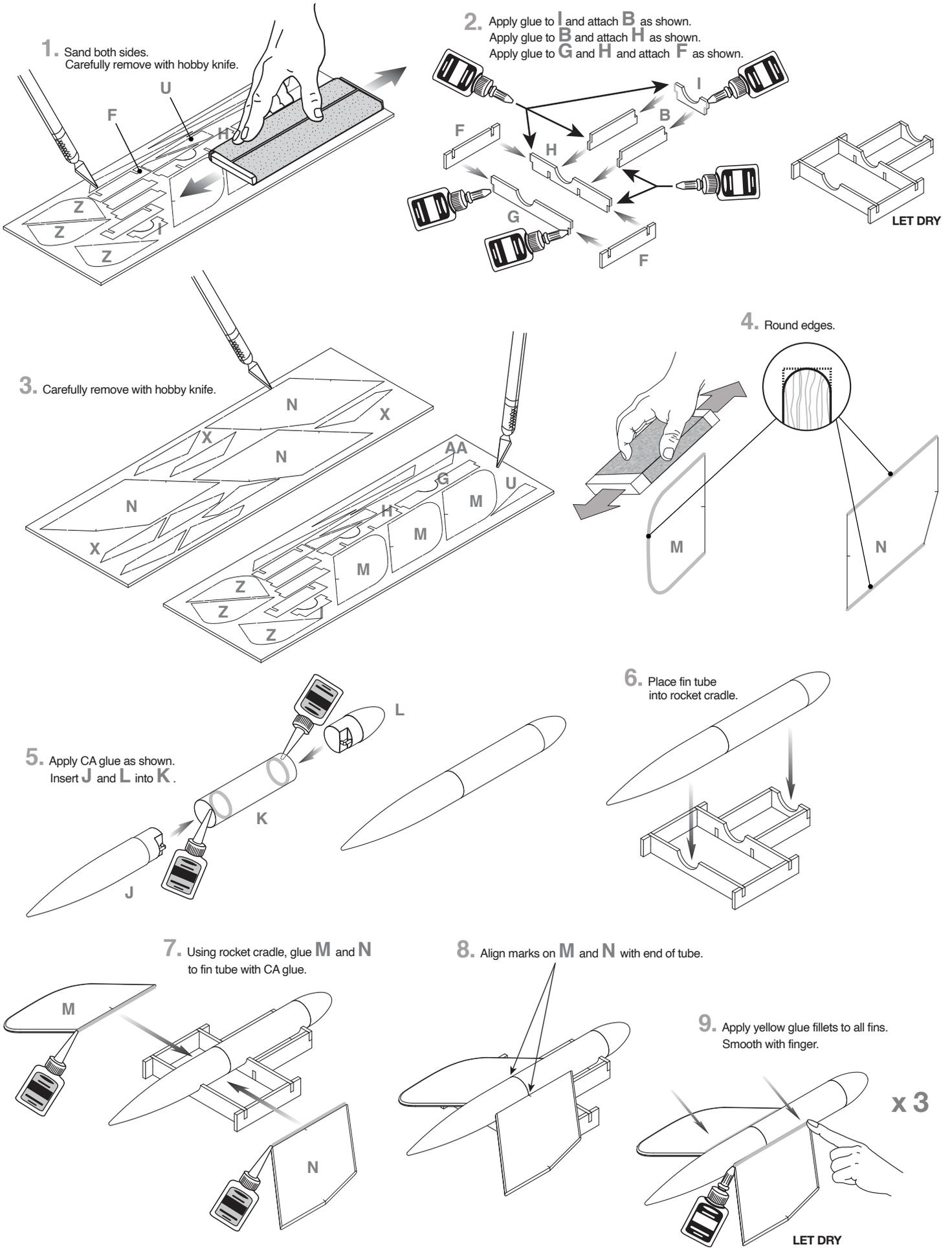
090001-7309
Waterslide decals

SHOCK CORD MOUNT

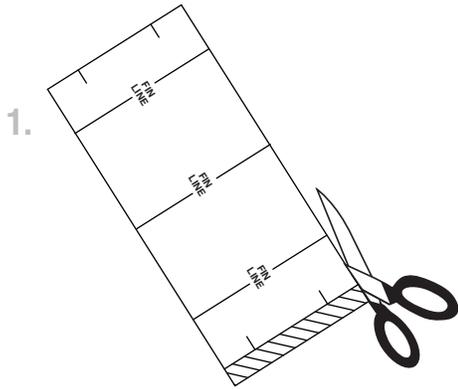
Make a copy if you want to keep instructions.



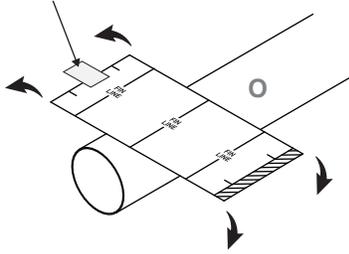
PREPARE WOOD PARTS, ASSEMBLE ROCKET CRADLE AND MAIN FIN



MARK LOWER BODY TUBE

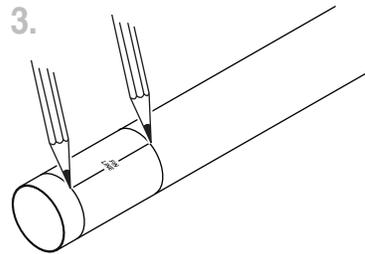
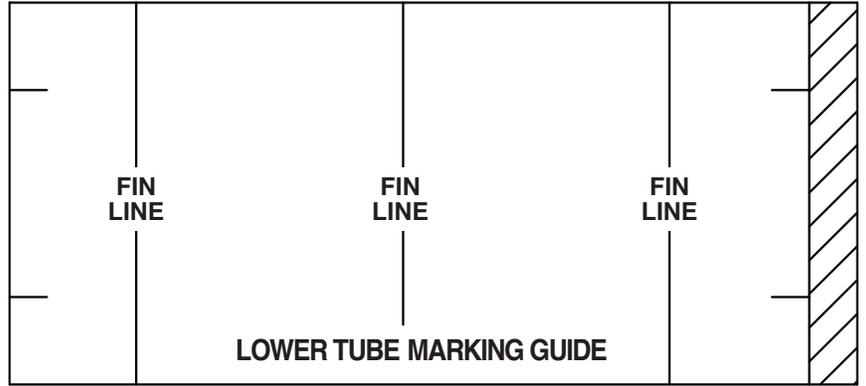


2. Masking tape.

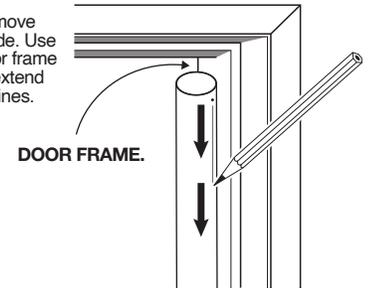


LOWER TUBE MARKING GUIDE

Make a copy if you want to keep instructions.

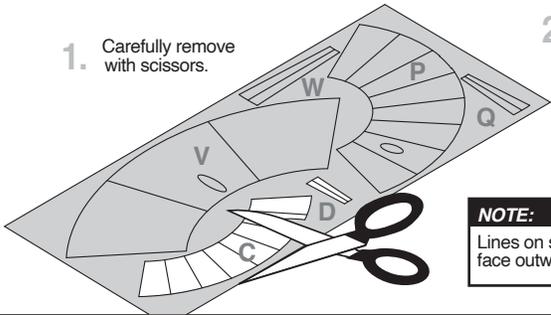


4. Remove guide. Use door frame to extend all lines.



ASSEMBLE PRINTED PAPER SHROUDS

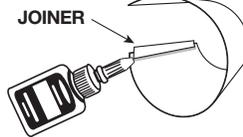
1. Carefully remove with scissors.



2. Curl wrap with printed side out.



3. Apply glue to one edge of wrap and apply joiner, centered over edge as shown below. Leave equal space between the front and back of joiner.



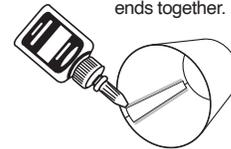
NOTE:

Use this procedure on all shrouds.

5. Masking tape can be used to hold joint together until glue dries.



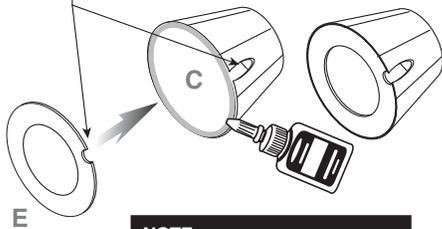
4. Apply glue to other edge and join ends together.



ASSEMBLE ENGINE MOUNT

NOTE:
Align notches.

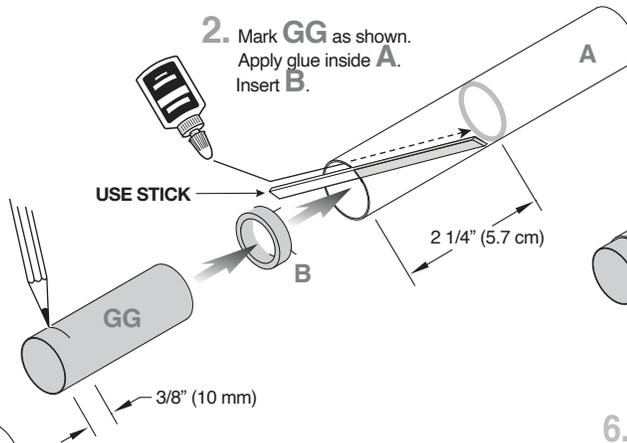
1. Apply glue to inside edge of C and attach E.



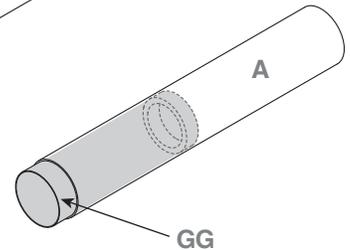
NOTE:
Always test fit parts before gluing.

2. Mark GG as shown. Apply glue inside A. Insert B.

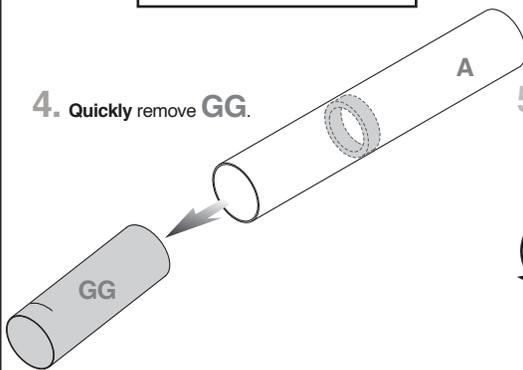
USE STICK



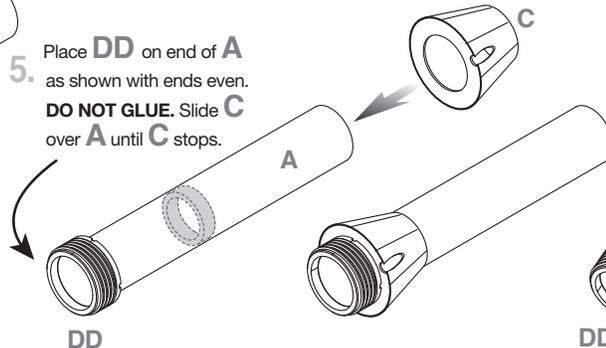
3. Insert GG into A stopping at mark on GG.



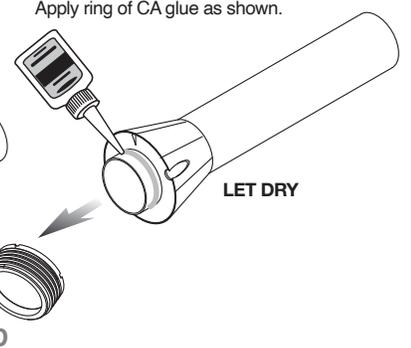
4. Quickly remove GG.



5. Place DD on end of A as shown with ends even. DO NOT GLUE. Slide C over A until C stops.

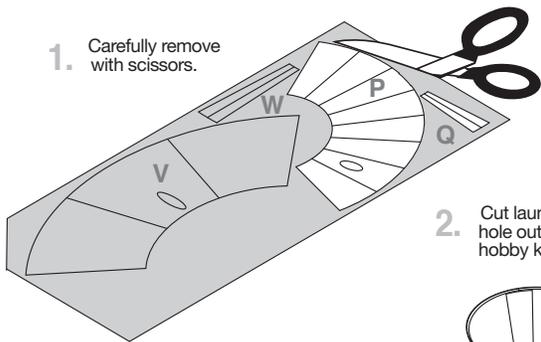


6. Remove DD. Apply ring of CA glue as shown.

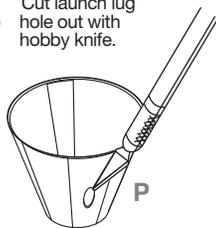


ASSEMBLE LOWER SECTION OF MODEL

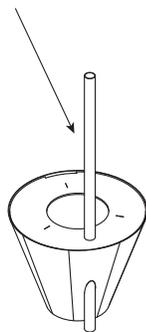
1. Carefully remove with scissors.



2. Cut launch lug hole out with hobby knife.



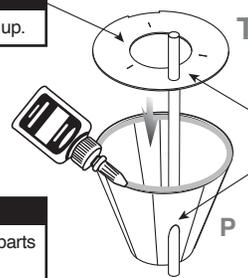
3. Test fit R to confirm the alignment of openings.



4. Apply glue to one edge of Paper shroud and apply T.

NOTE:
T will most likely be below edge of P.

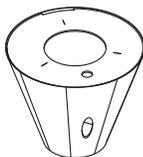
NOTE:
3 marks face up.



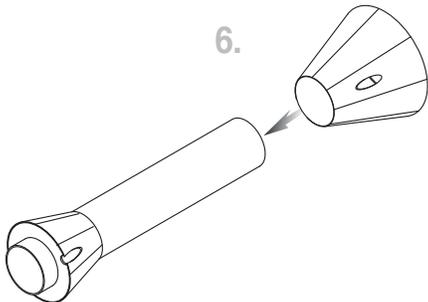
NOTE:
Align openings using R

NOTE:
Always test fit parts before gluing.

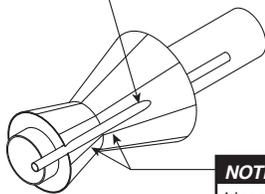
5. Remove R, let dry.



6.

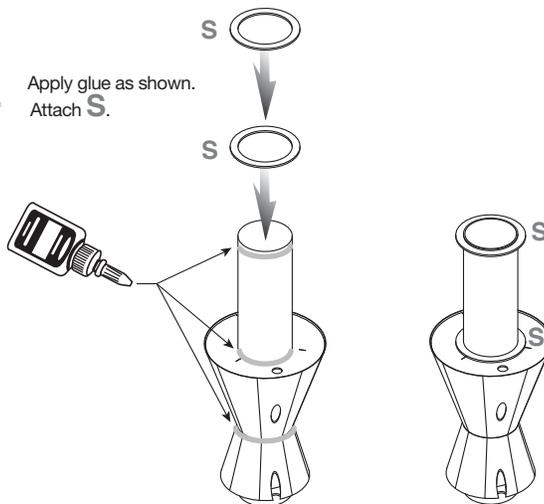


7. Use R to confirm alignment of openings, then remove.

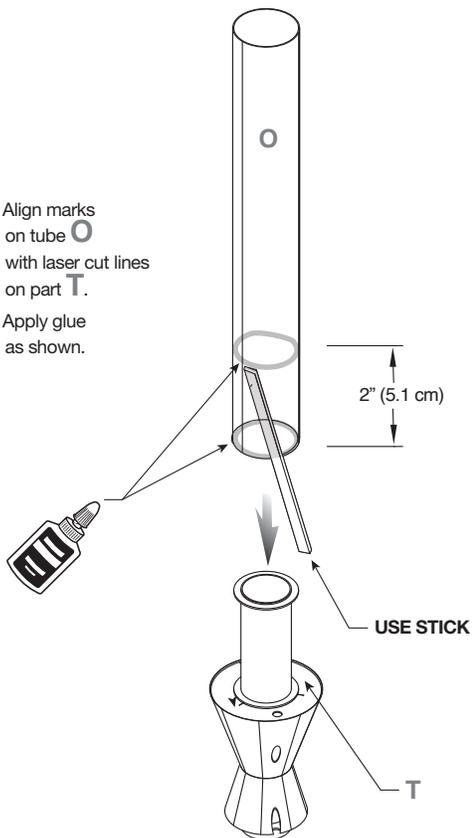


NOTE:
Lines on wraps need to line up.

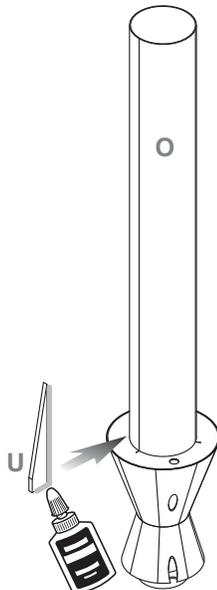
8. Apply glue as shown. Attach S.



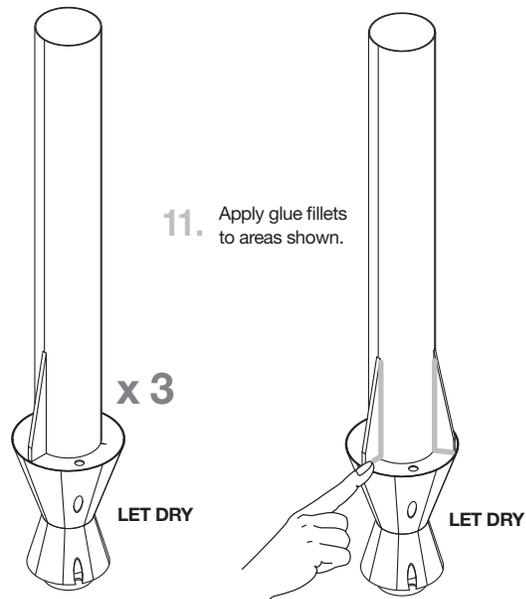
9. Align marks on tube O with laser cut lines on part T. Apply glue as shown.



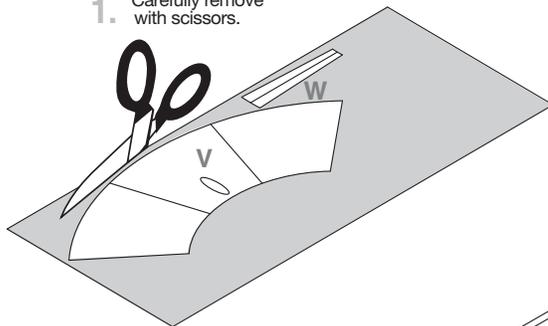
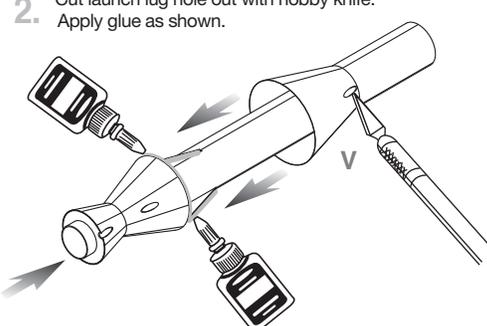
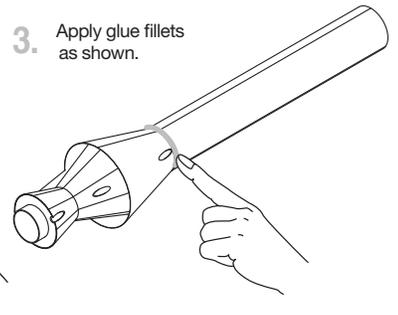
10. Apply glue to U in areas shown and apply to O.



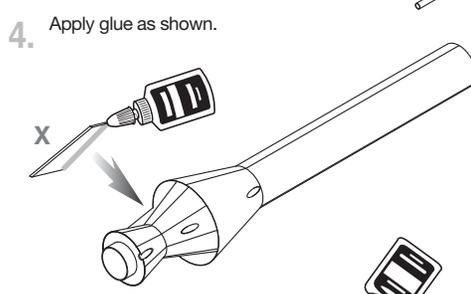
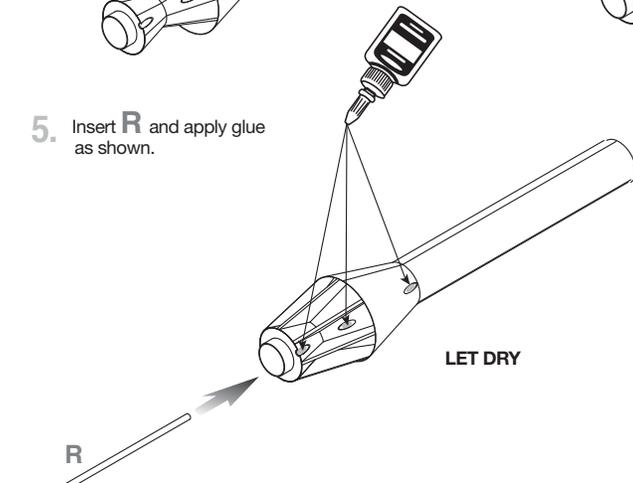
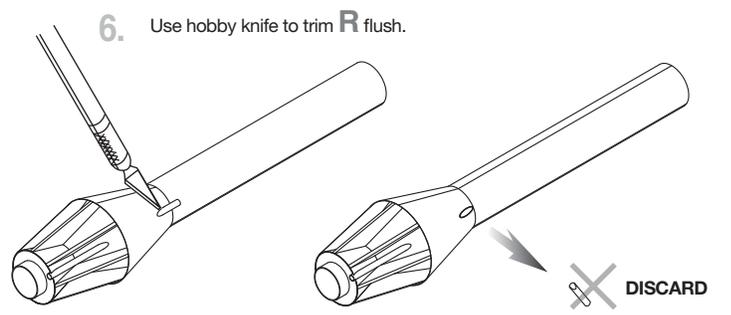
11. Apply glue fillets to areas shown.



ASSEMBLE LOWER DETAIL PARTS AND LAUNCH LUG ATTACHMENT

1. Carefully remove with scissors. 
2. Cut launch lug hole out with hobby knife. Apply glue as shown. 
3. Apply glue fillets as shown. 

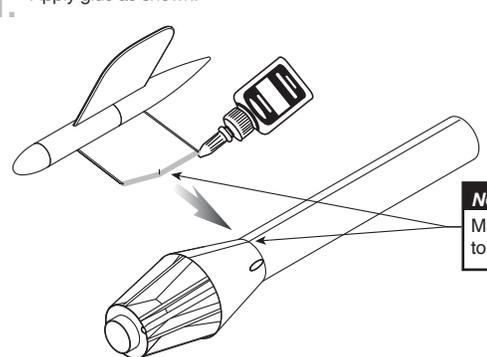
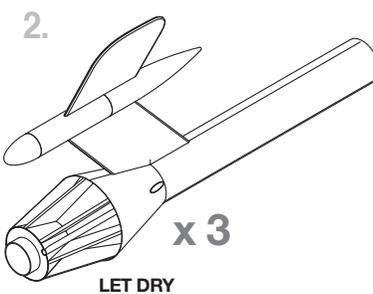
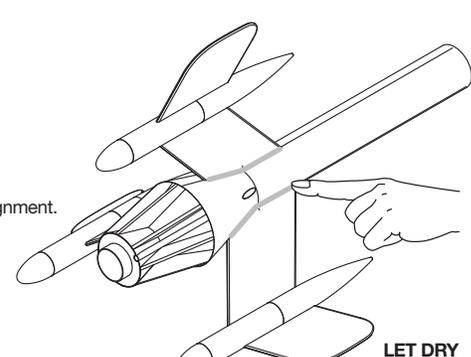
NOTE:
Always test fit parts before gluing.

4. Apply glue as shown. 
5. Insert **R** and apply glue as shown. 
6. Use hobby knife to trim **R** flush. 

Use **R** to confirm alignment of openings.

x 8

ATTACH MAIN FINS

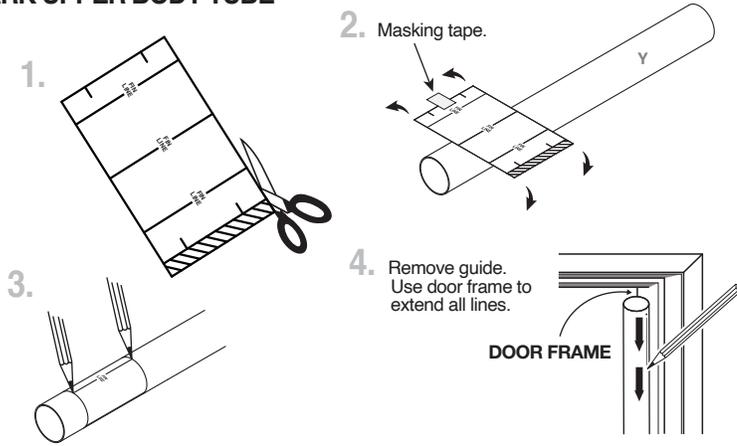
1. Apply glue as shown. 
2. 
3. Apply glue fillets as shown. Use fin alignment guide to check alignment. 

NOTE:
Marks need to line up.

FIN ALIGNMENT GUIDE

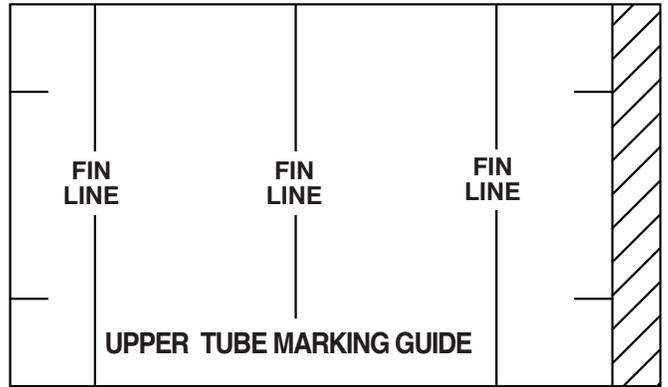
120° 120° 120°

MARK UPPER BODY TUBE



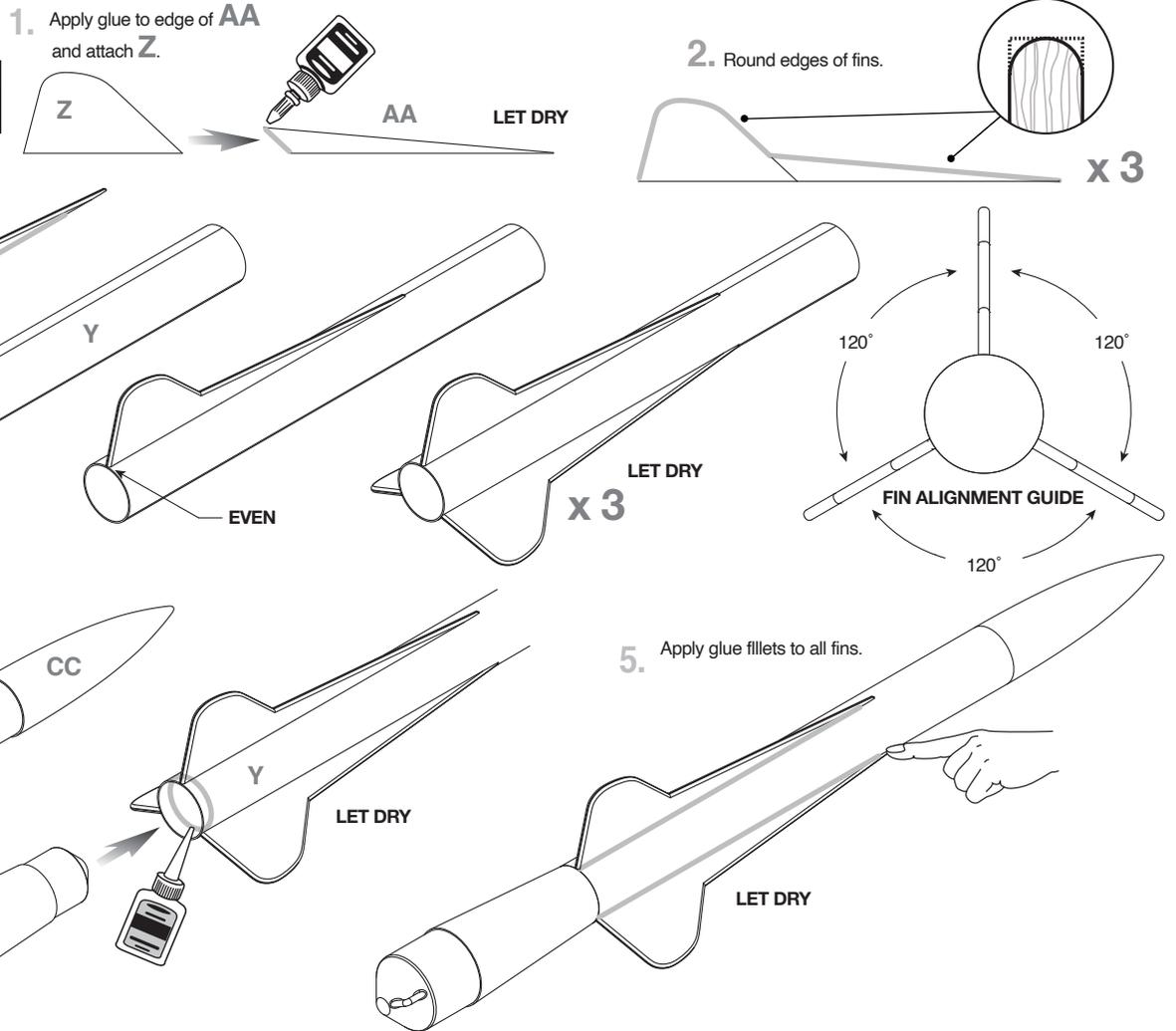
UPPER TUBE MARKING GUIDE

Make a copy if you want to keep instructions.

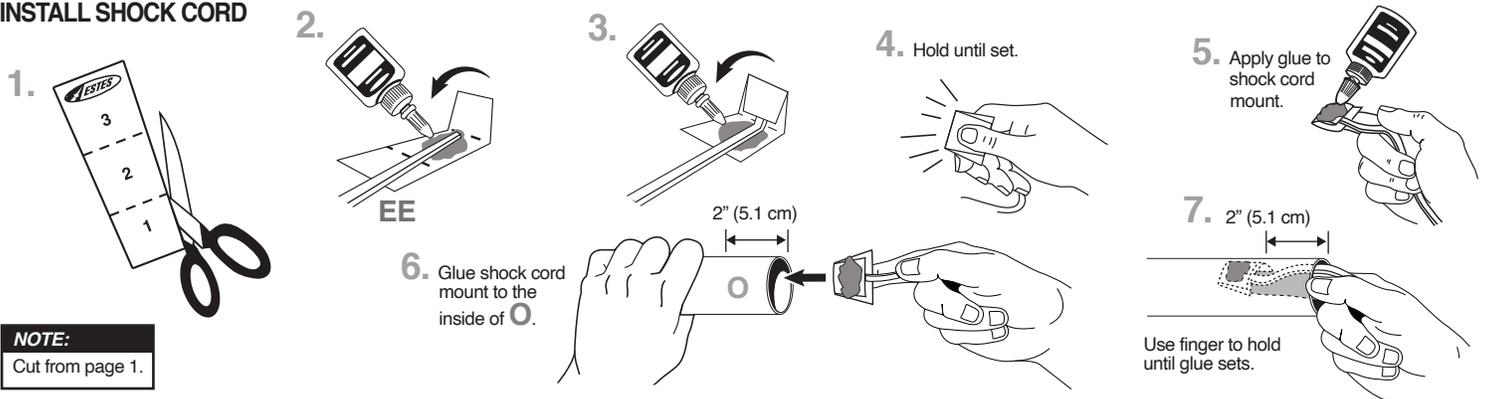


ATTACH UPPER FINS

NOTE:
Assemble parts of flat surface covered with wax paper.

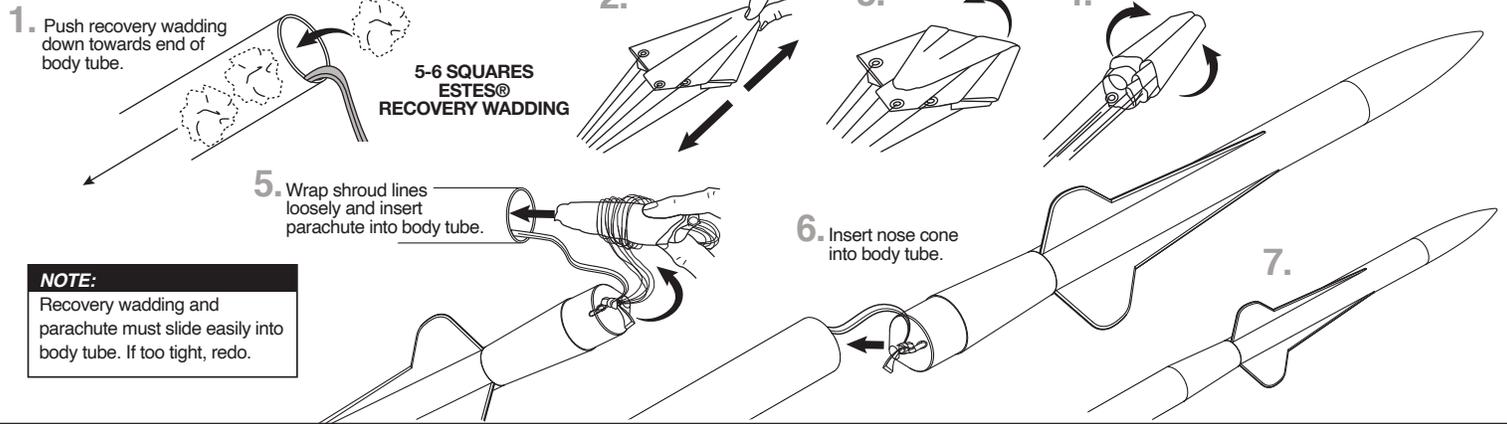


INSTALL SHOCK CORD



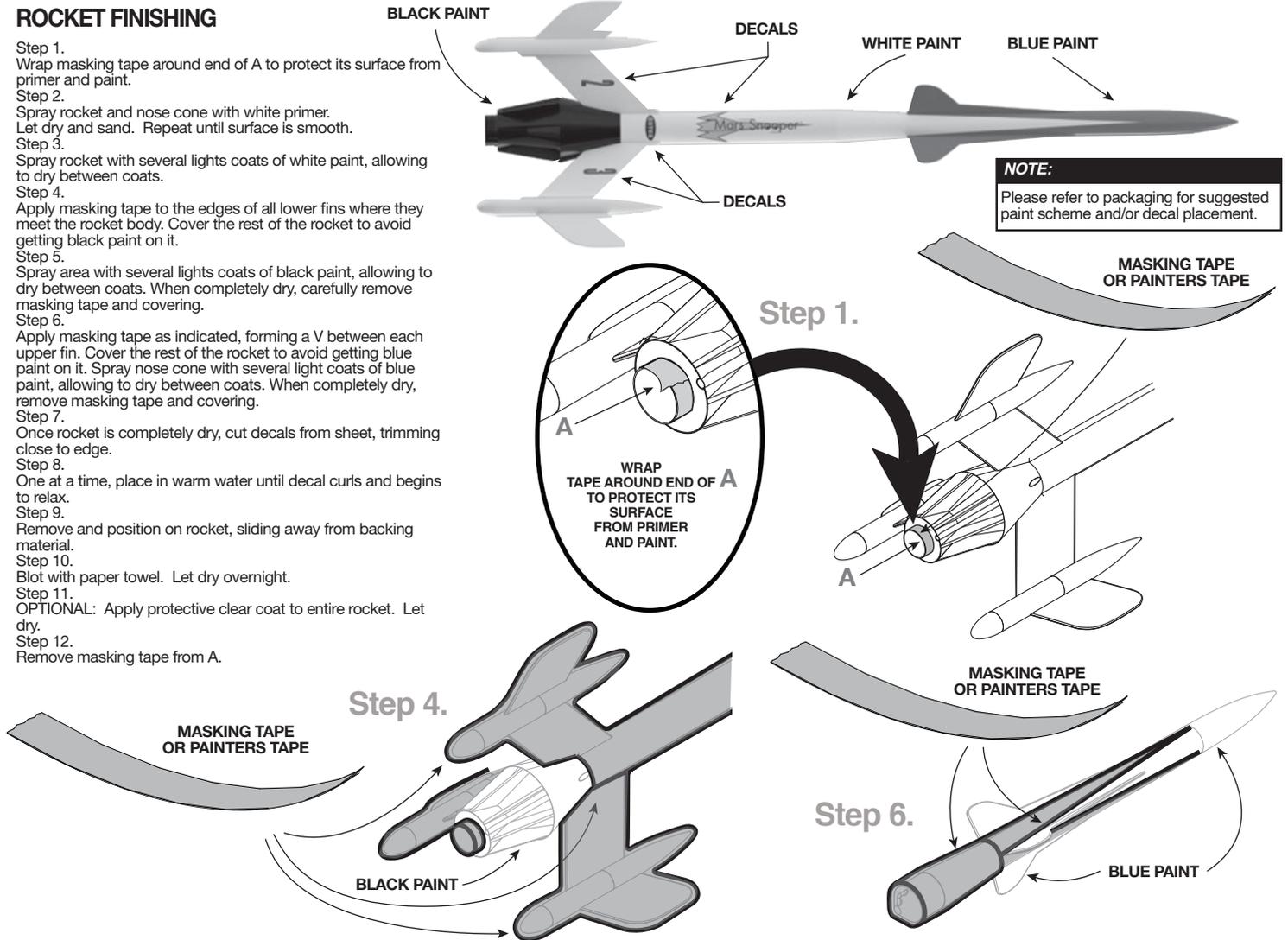
NOTE:
Cut from page 1.

ATTACH SHOCK CORD



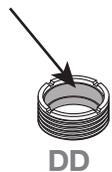
ROCKET FINISHING

- Step 1.** Wrap masking tape around end of A to protect its surface from primer and paint.
- Step 2.** Spray rocket and nose cone with white primer. Let dry and sand. Repeat until surface is smooth.
- Step 3.** Spray rocket with several light coats of white paint, allowing to dry between coats.
- Step 4.** Apply masking tape to the edges of all lower fins where they meet the rocket body. Cover the rest of the rocket to avoid getting black paint on it.
- Step 5.** Spray area with several light coats of black paint, allowing to dry between coats. When completely dry, carefully remove masking tape and covering.
- Step 6.** Apply masking tape as indicated, forming a V between each upper fin. Cover the rest of the rocket to avoid getting blue paint on it. Spray nose cone with several light coats of blue paint, allowing to dry between coats. When completely dry, remove masking tape and covering.
- Step 7.** Once rocket is completely dry, cut decals from sheet, trimming close to edge.
- Step 8.** One at a time, place in warm water until decal curls and begins to relax.
- Step 9.** Remove and position on rocket, sliding away from backing material.
- Step 10.** Blot with paper towel. Let dry overnight.
- Step 11.** OPTIONAL: Apply protective clear coat to entire rocket. Let dry.
- Step 12.** Remove masking tape from A.

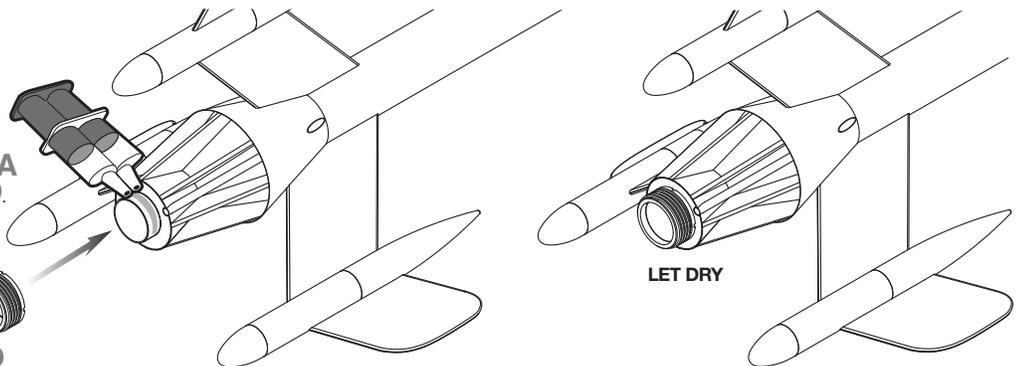


INSTALL ENGINE RETAINER

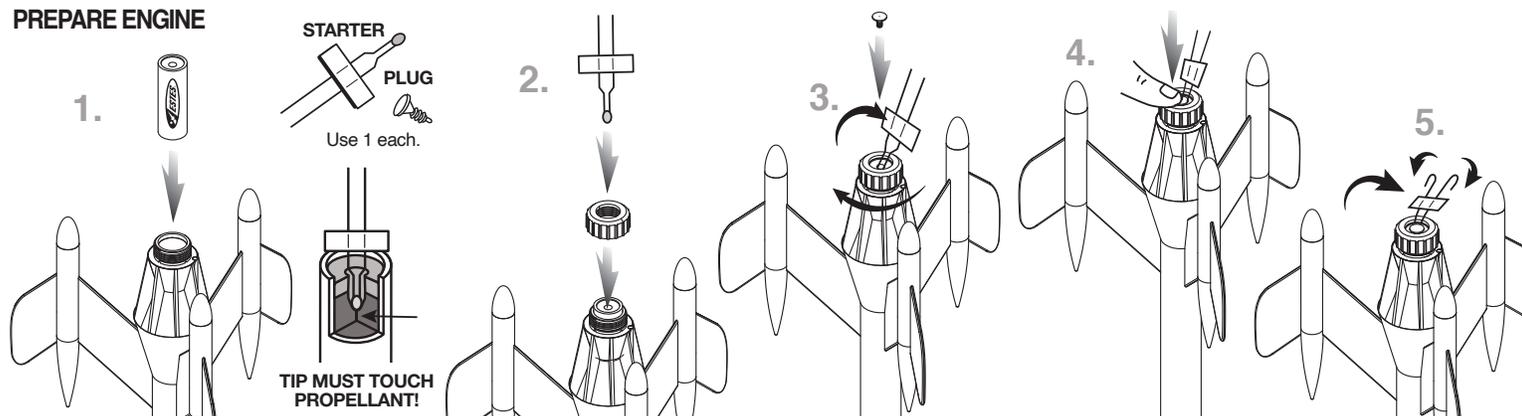
- 1.** Lightly sand the inside of DD so epoxy adheres better.



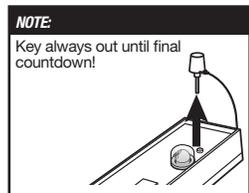
- 2.** Apply epoxy to A and attach DD.



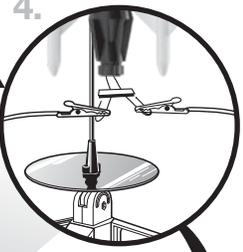
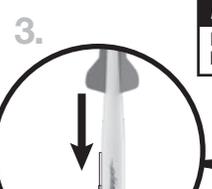
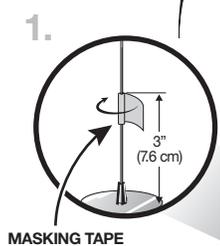
PREPARE ENGINE



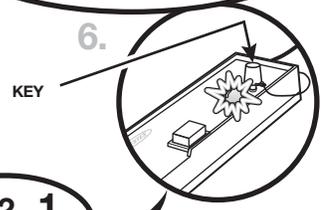
COUNTDOWN AND LAUNCH



- 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: C11-3, D12-3



NOTE:
Fully extend your launch controller wire before launching.

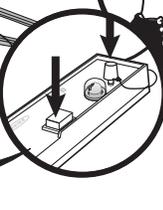
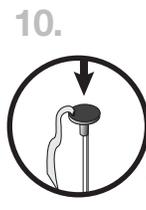


NOTE:
Estimated weight : 5.5 oz. (155.9g)



Insert key, push down hard. Bulb will light.

While holding key down FIRMLY, press launch button until LIFTOFF!



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.

