



EstesRockets.com

AGES
10+

3223

Skill Level

EXPERT

MODEL ROCKET INSTRUCTIONS

KEEP FOR FUTURE REFERENCE

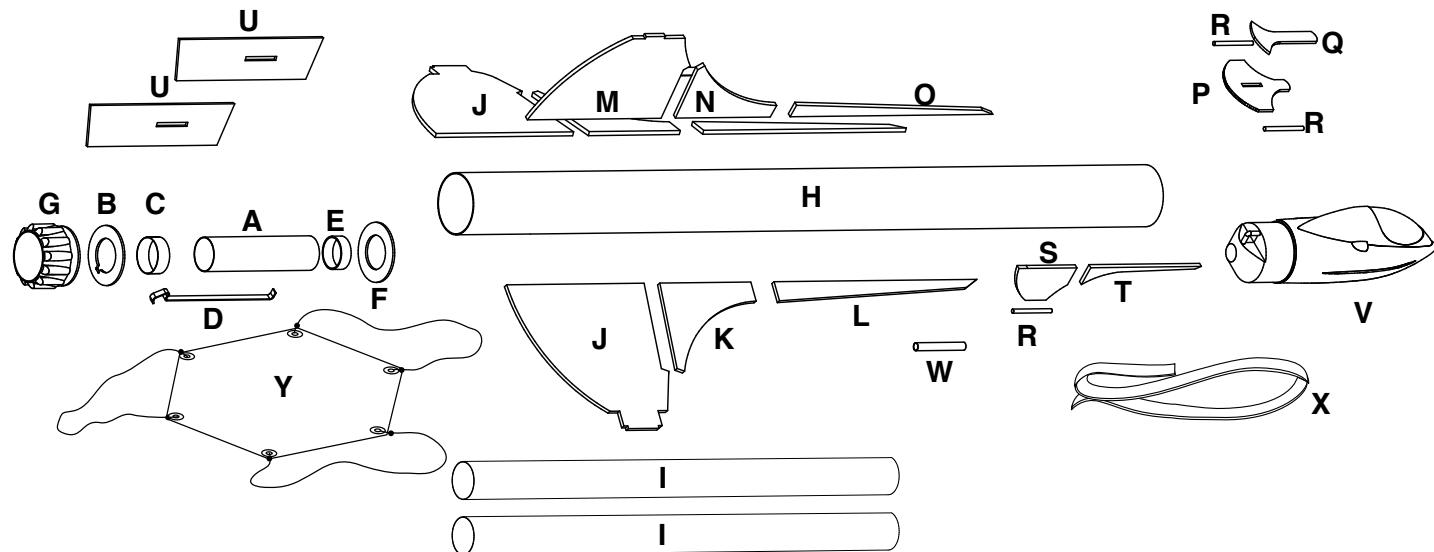
IMPORTANT: Please record date found on decal and keep for future reference.



CAUTION:

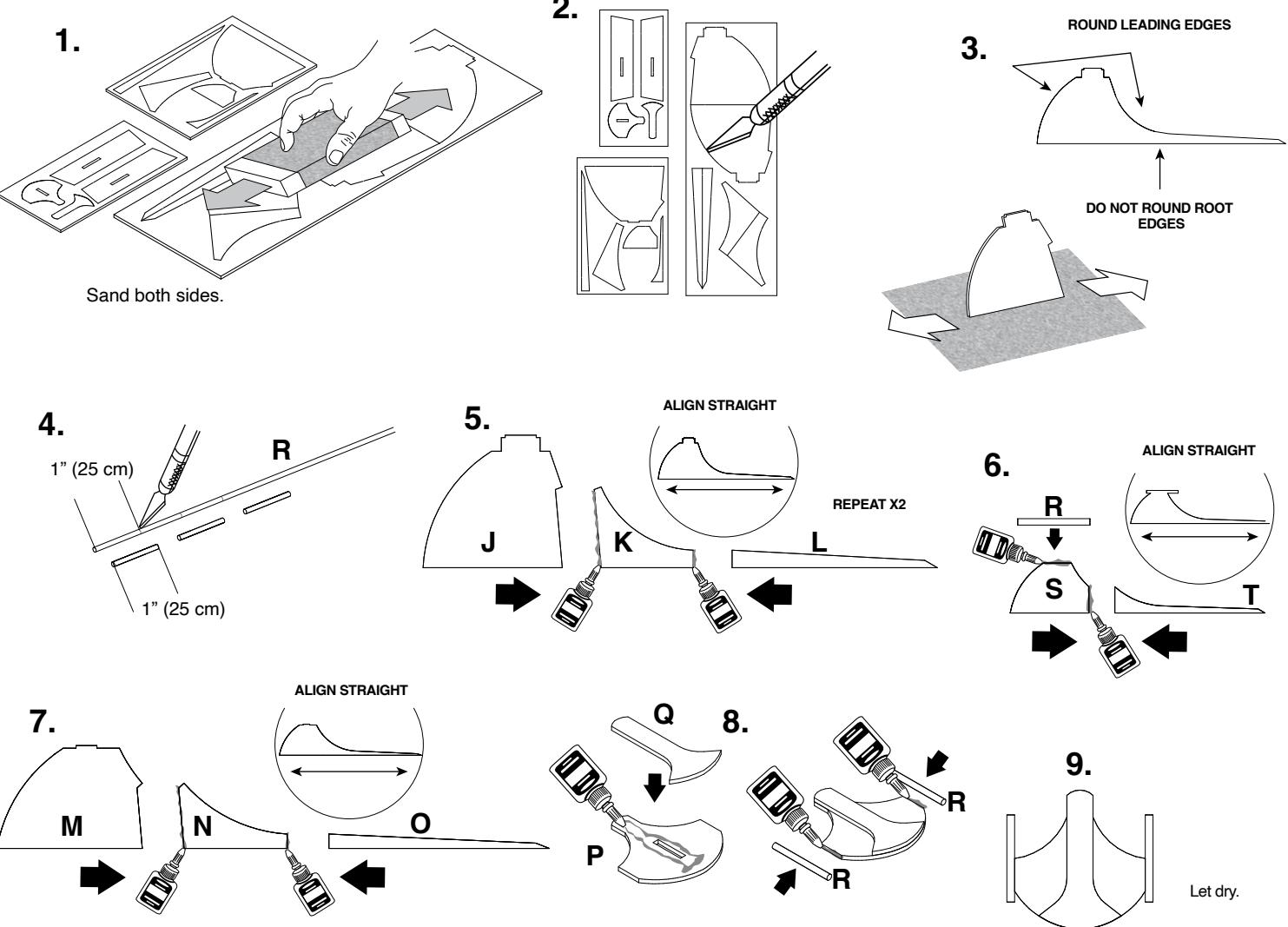
May not apply to all kits. For safe handling of plastic cement, epoxy, spray adhesive, CA glue, CA accelerator, paint/finishing materials, see manufacturer's warnings and follow instructions for use. To avoid injury, use extreme caution when using hobby knife, scissors, drills, and any cutting tools.

SUPPLIES

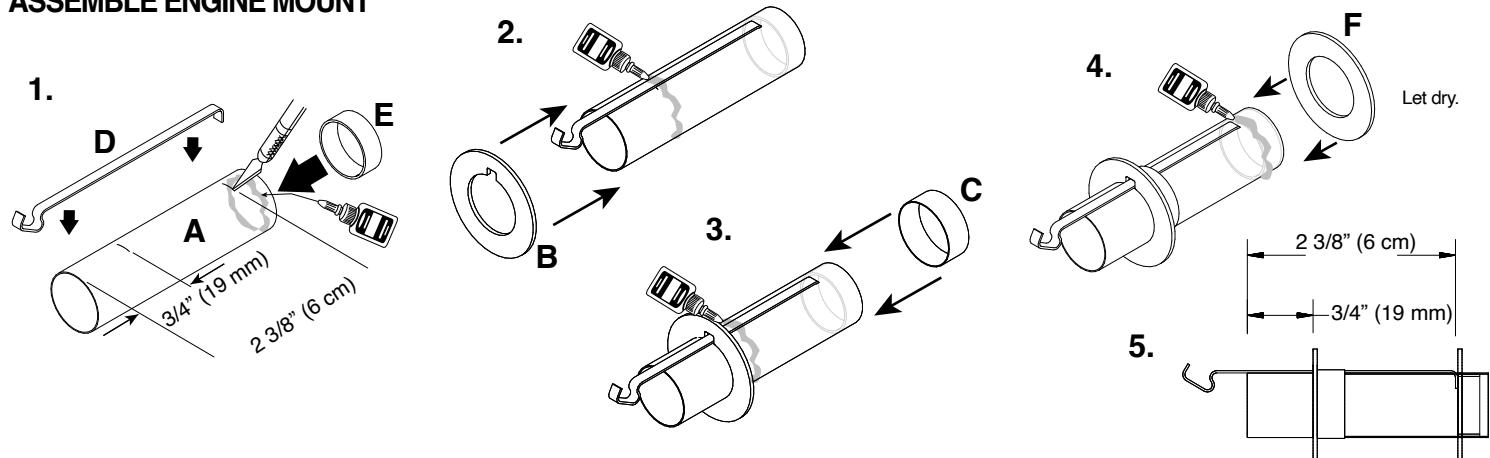


| Part | Qty | Description | Part Number |
|-------|------|---------------------------------|------------------------------|
| A | 1 | Engine Mount Tube | 030408 |
| B | 1 | Notched Centering Ring | 030125 |
| C | 1 | Mylar Engine Hook Retainer Ring | 030168 |
| D | 1 | Engine Hook | 035021 |
| E | 1 | Engine Block | 030162-2 |
| F | 1 | Centering Ring | 030125 |
| G | 1 | Tail Cone | 072690 |
| H | 1 | BT55 Body Tube 18" (45.7 cm) | 030382 |
| I | 2 | 1090 Body Tube 11" (27.9 cm) | 031366 |
| J - L | 2 ea | Laser Cut Fin Pieces | 066387 |
| M - O | 1 ea | Laser Cut Fin Pieces | 066388 |
| P - Q | 1 ea | Laser Cut Pieces | 066393 |
| R | 1 | Wood Dowel | 032062 |
| S - T | 1 ea | Laser Cut Fin Pieces | 066388 |
| U | 2 | Laser Cut Pieces | 066393 |
| V | 1 | Plastic Nose Cone | 072689 |
| W | 1 | Launch Lug | 038166 |
| X | 1 | Shock Cord | 038369 |
| Y | 1 | Parachute | 035802 |
| | 2 | Waterslide Decals - not shown | 090001-3223A 090001-3223B |

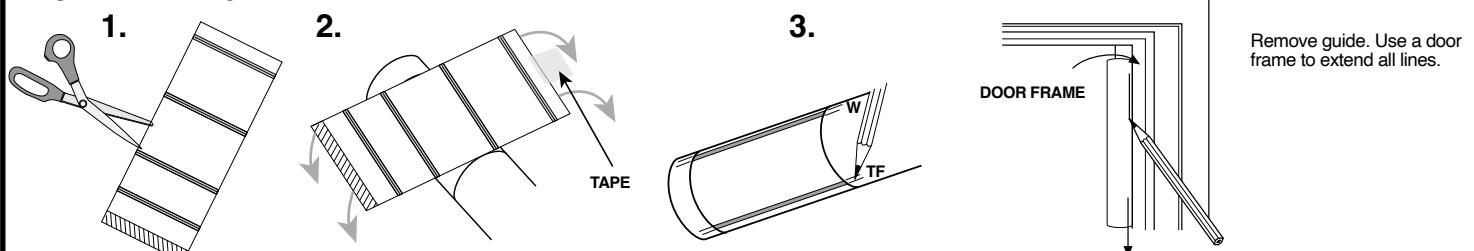
PREPARE FINS



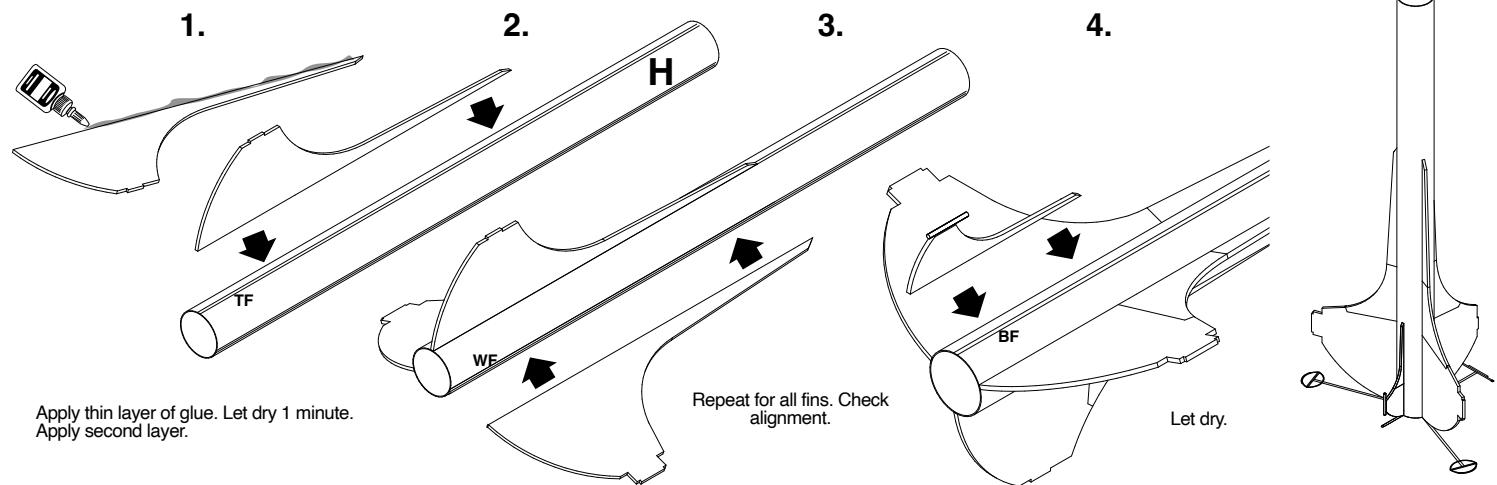
ASSEMBLE ENGINE MOUNT



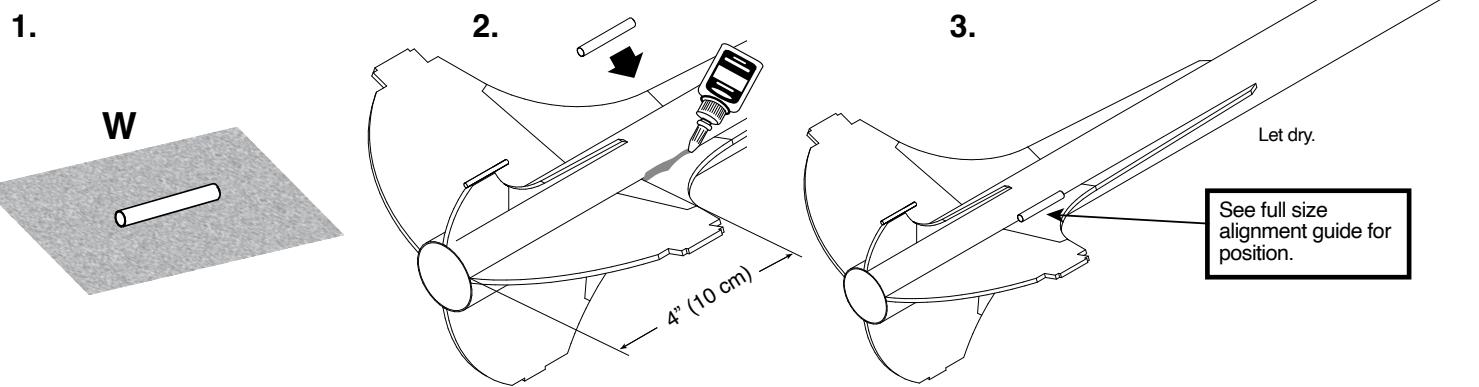
TUBE MARKING



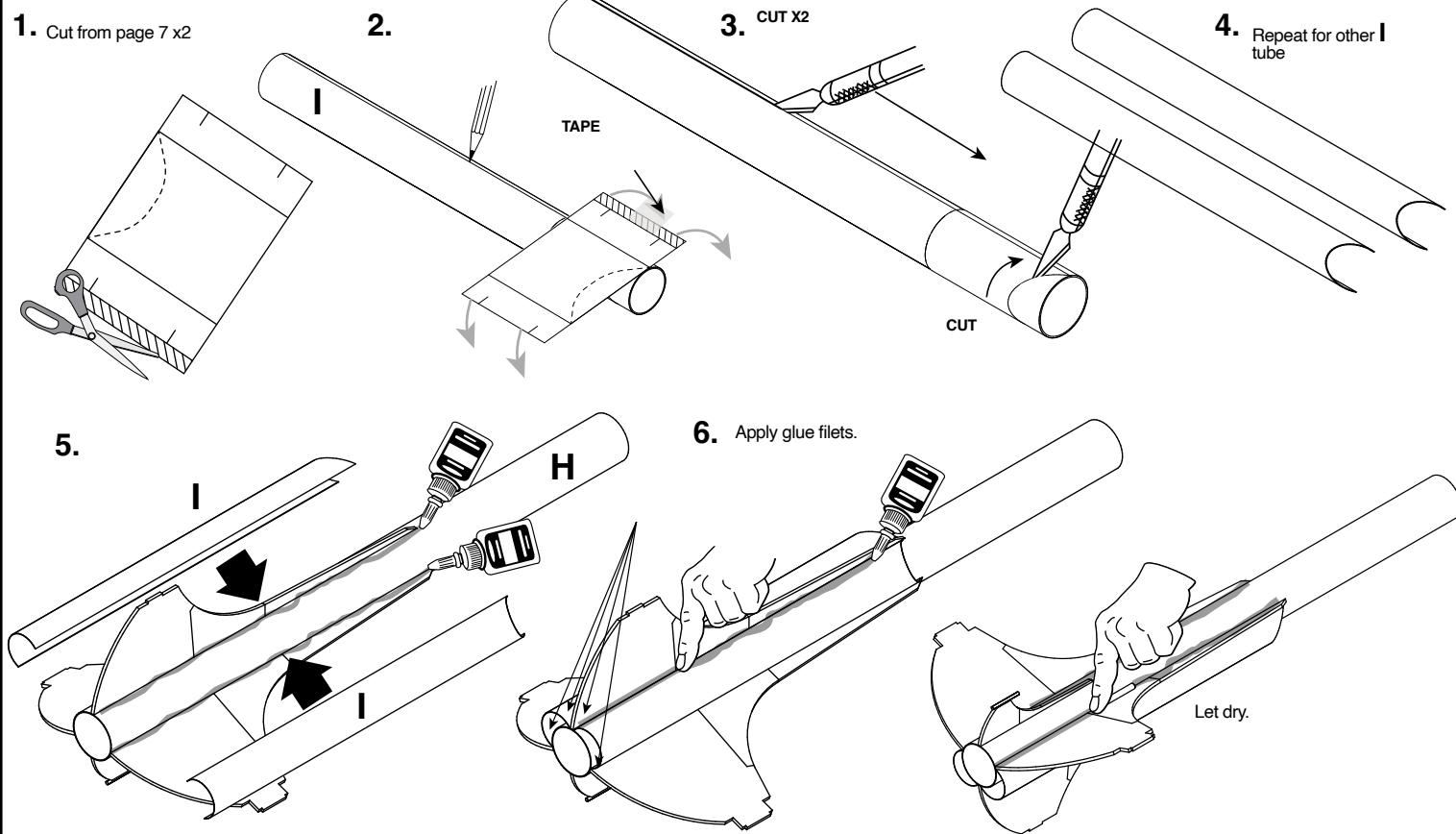
ATTACH FINS



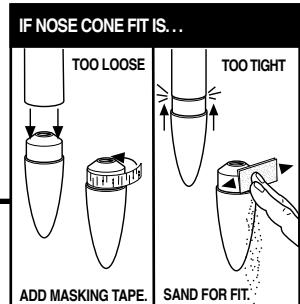
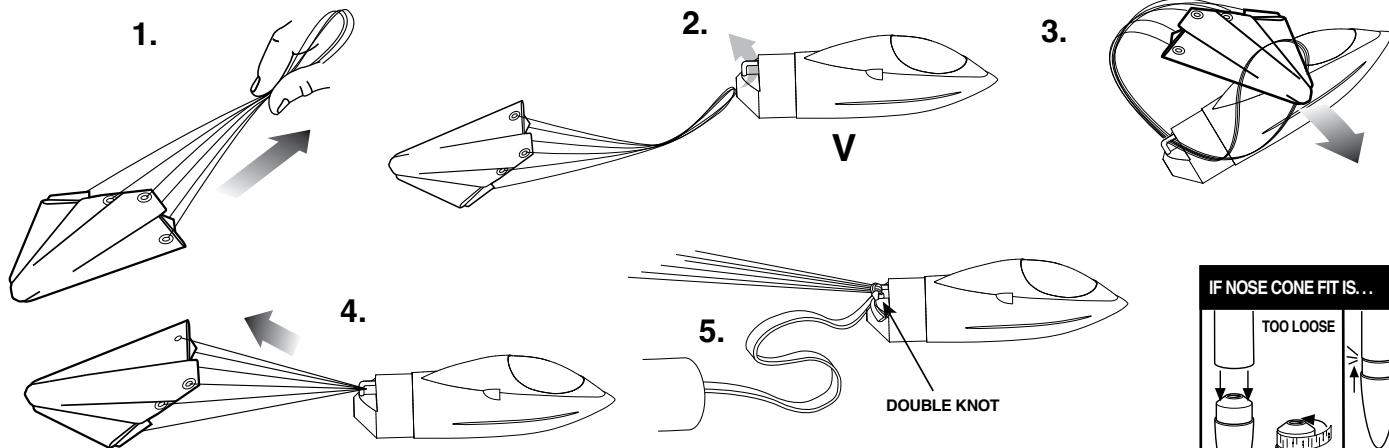
ASSEMBLE LAUNCH LUG



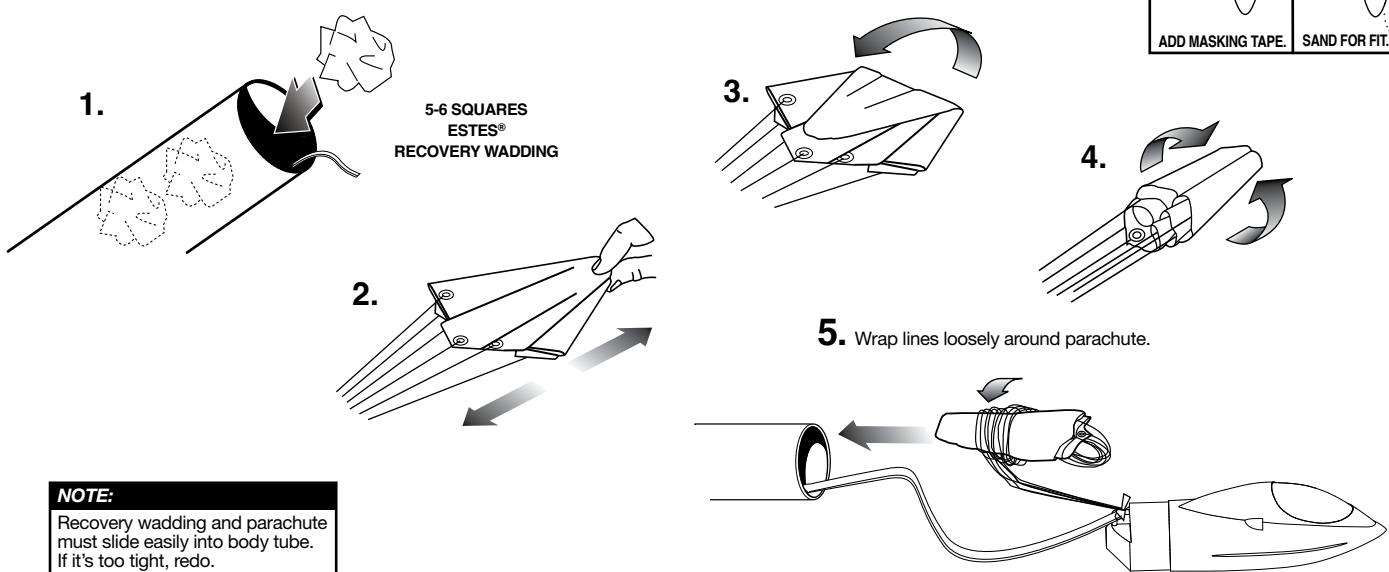
BUILD INTAKE



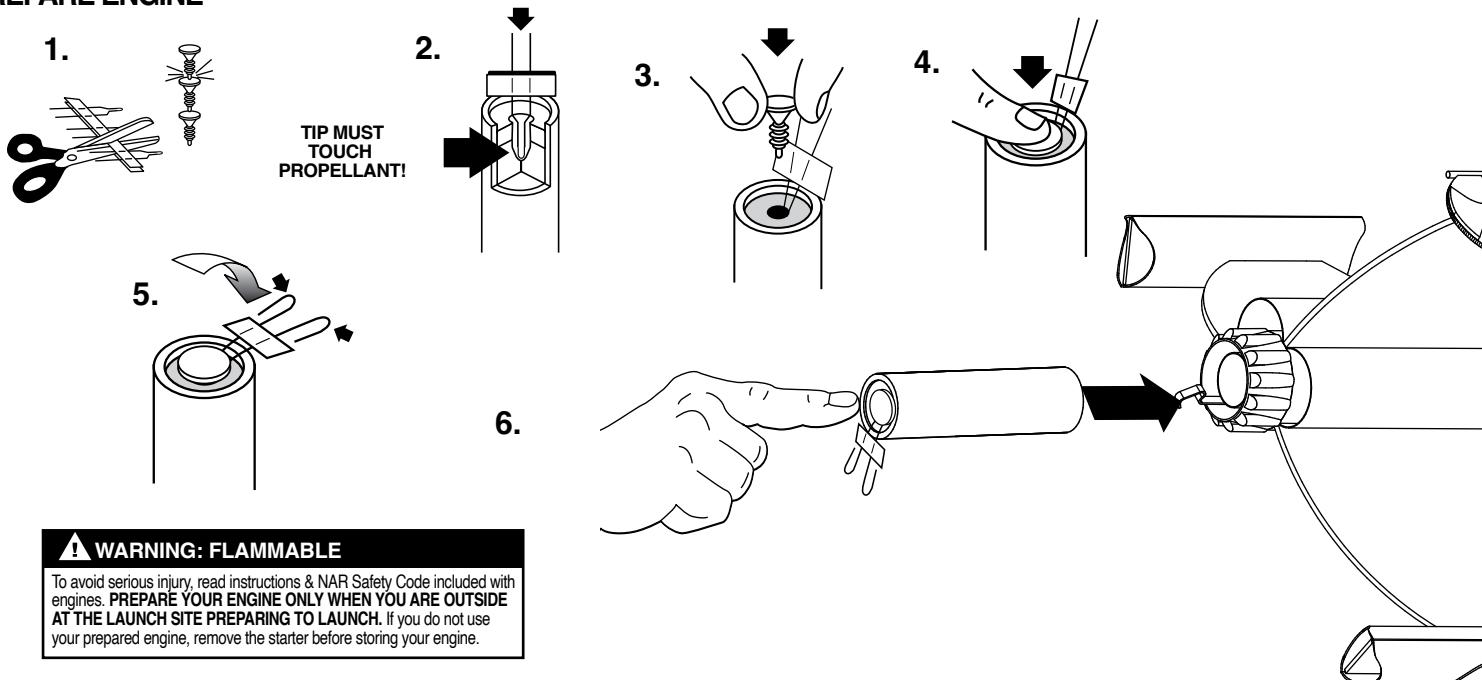
PREPARE RECOVERY SYSTEM



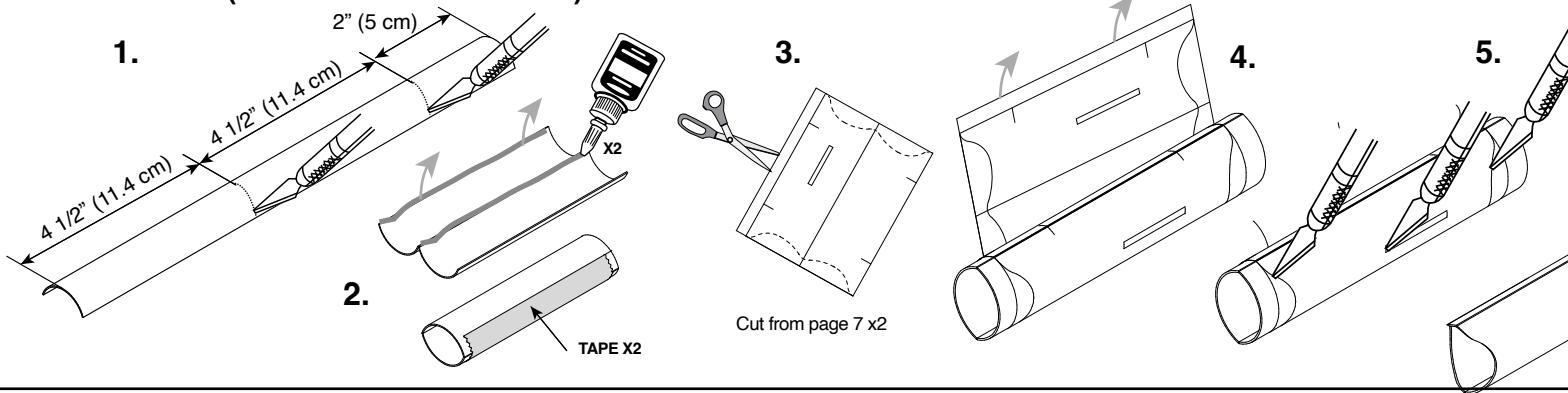
PREPARE FLIGHT RECOVERY



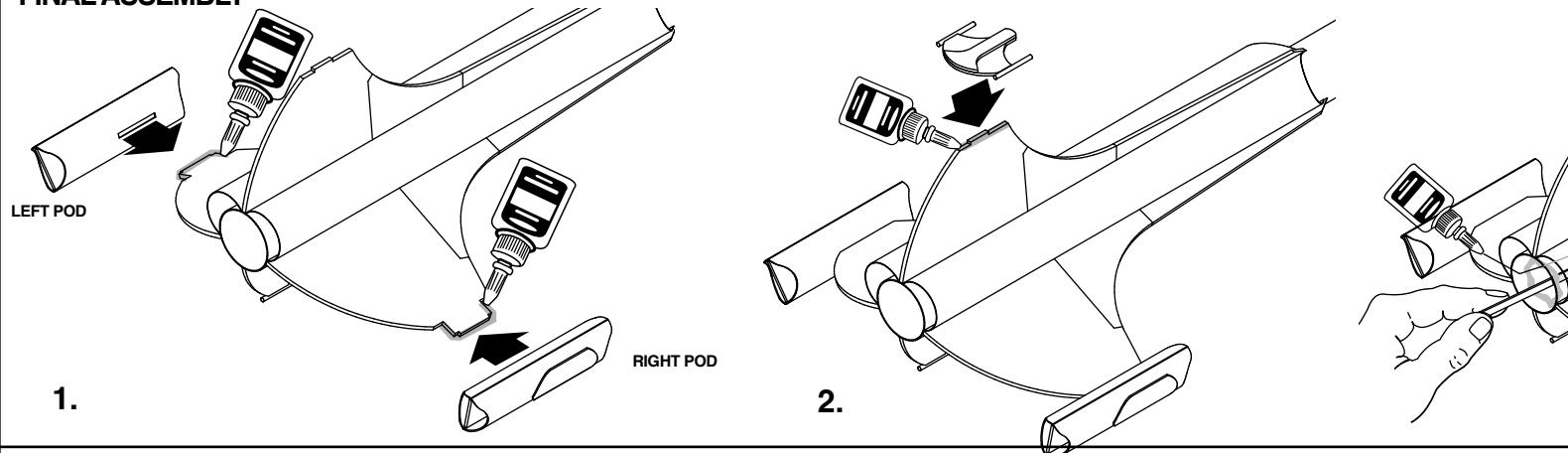
PREPARE ENGINE



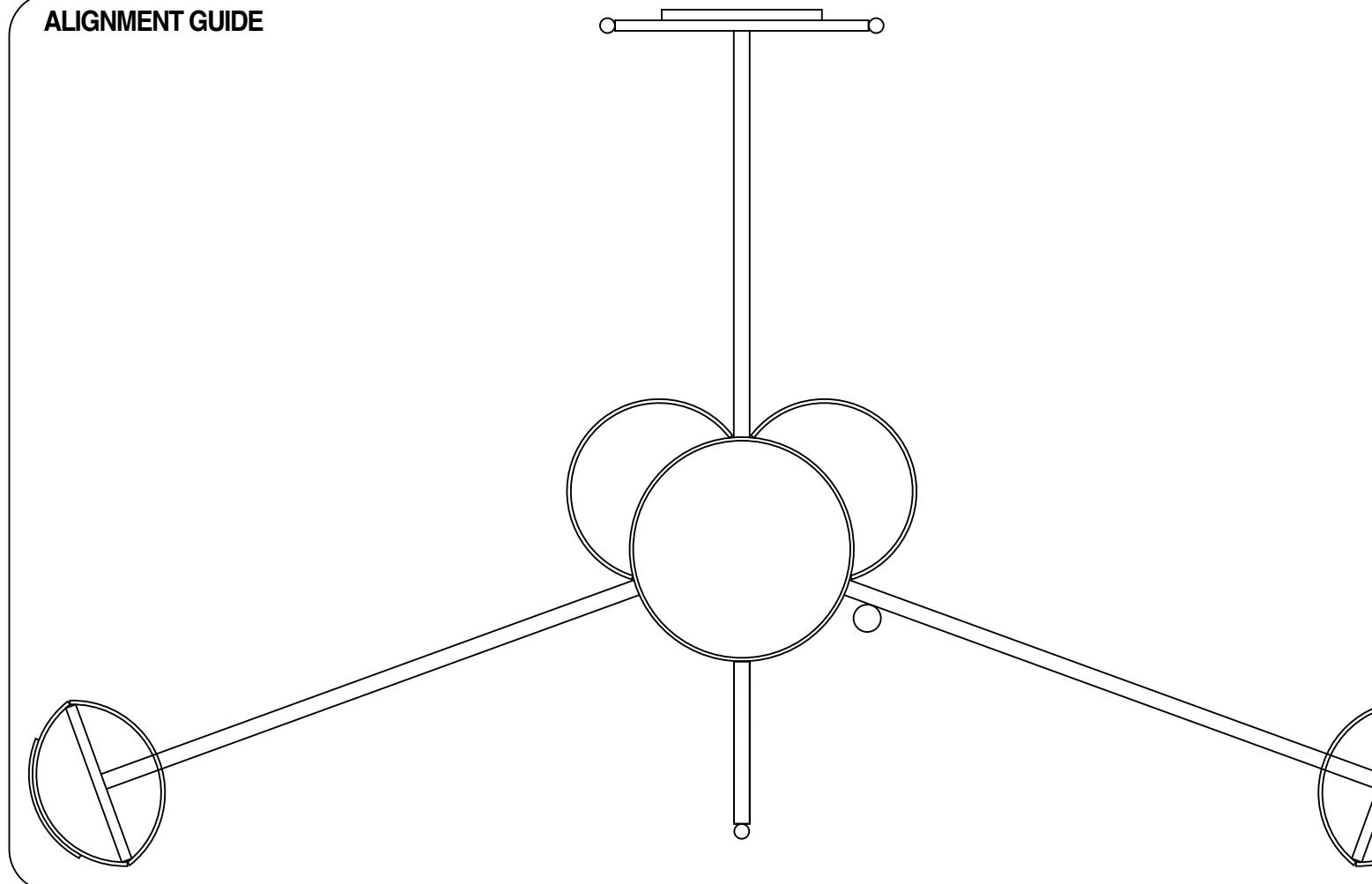
ASSEMBLE POD (MADE FROM LEFT OVER 1)

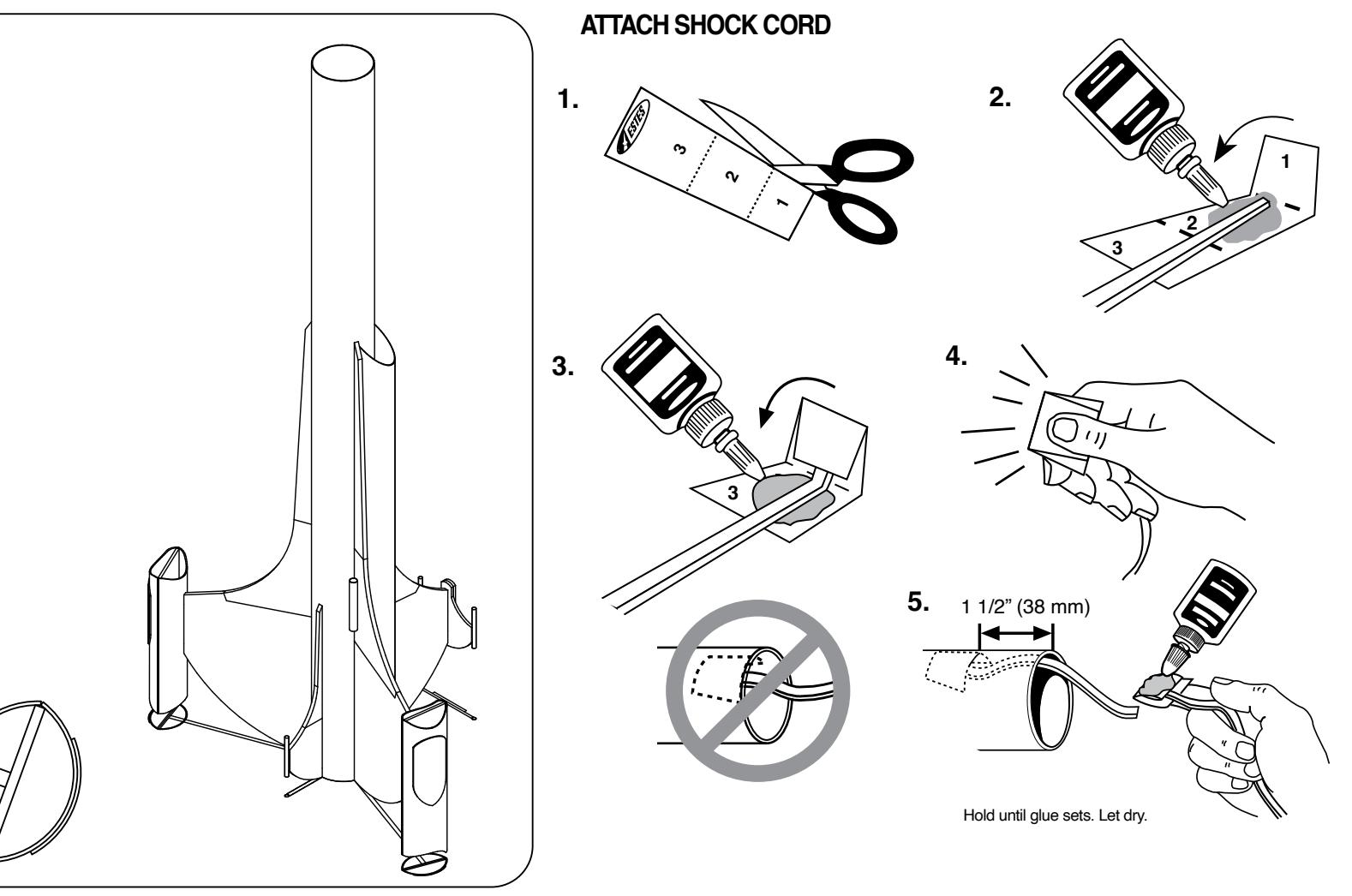
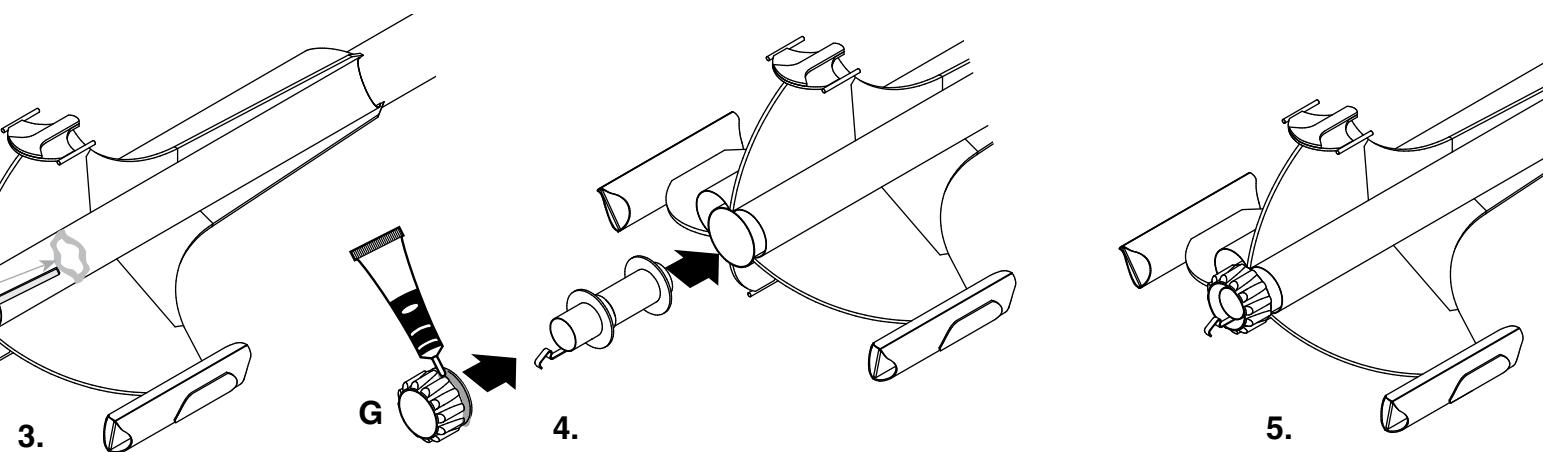
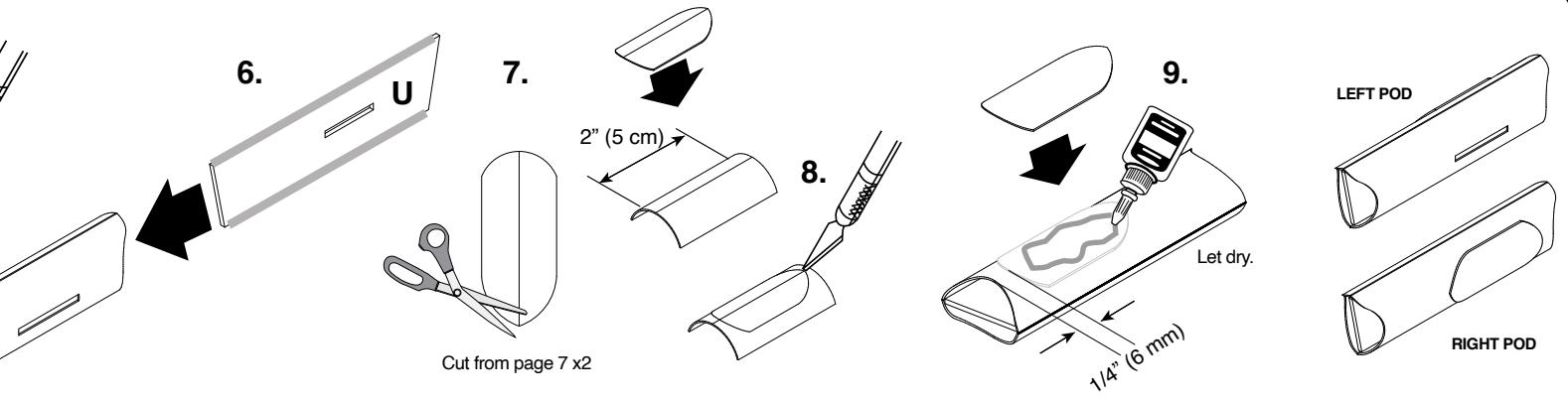


FINAL ASSEMBLY



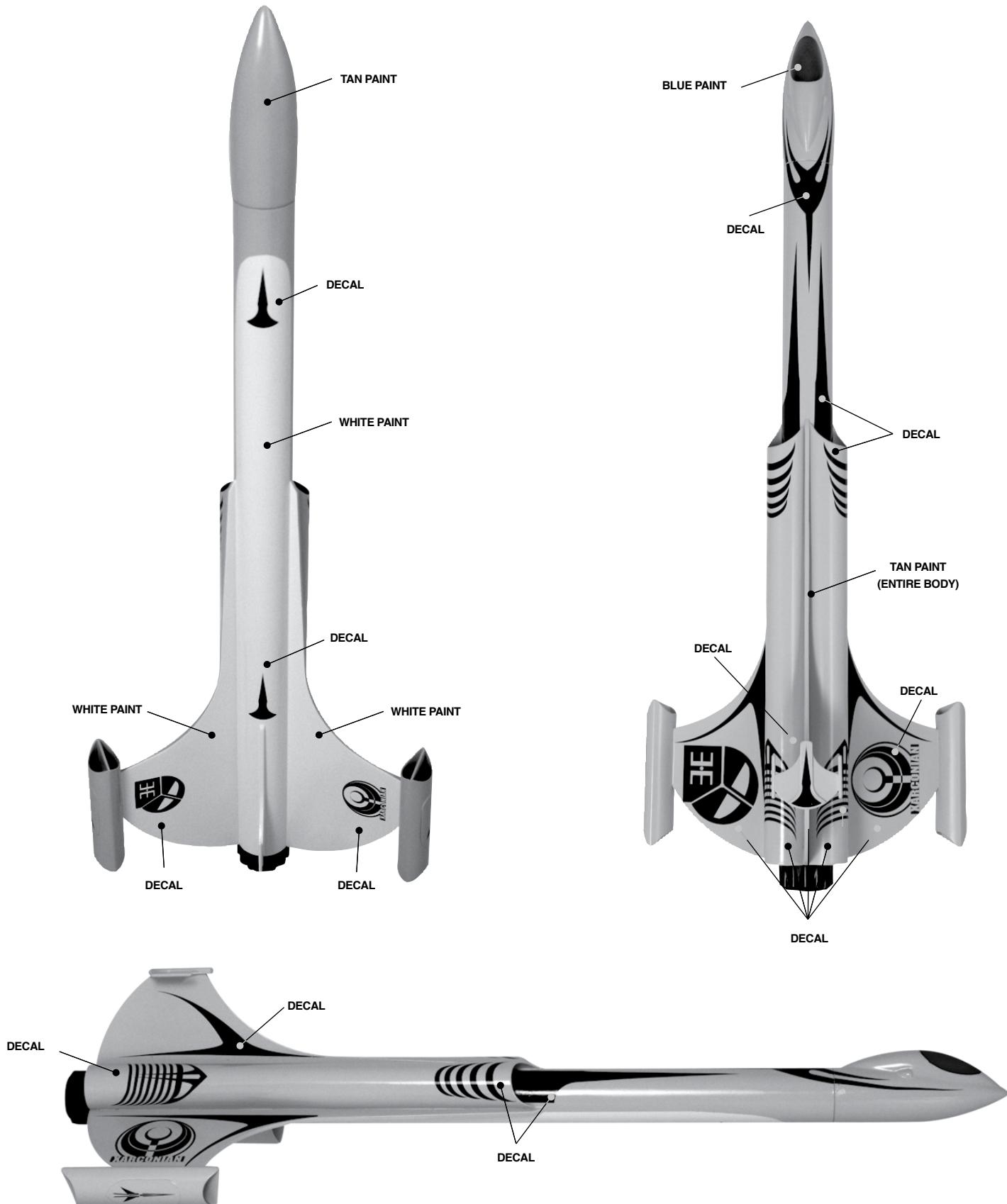
ALIGNMENT GUIDE



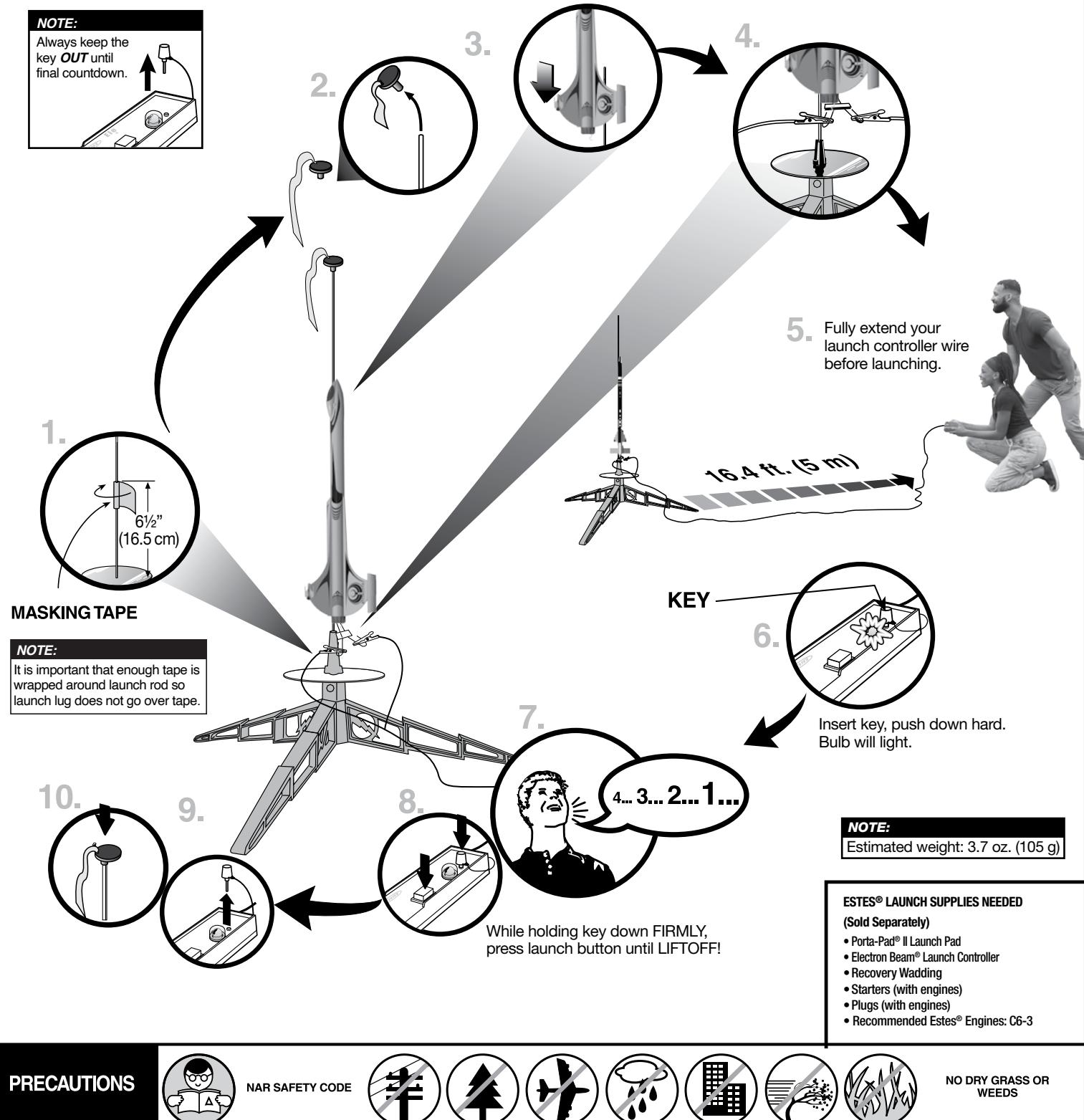


ROCKET FINISHING

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.



COUNTDOWN AND LAUNCH

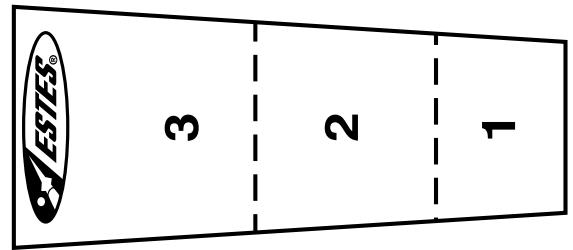
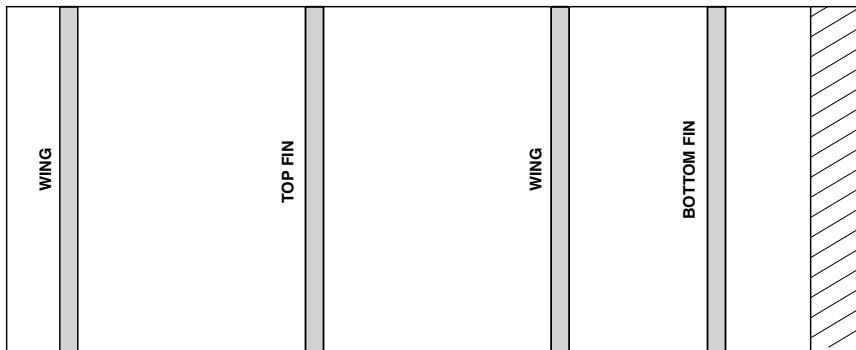


PRE-LAUNCH CHECK For safety, never launch a damaged rocket. Check the rocket's body, nose cone and fins. Also, check the engine mount, recovery system and launch lug(s). Repair any damage before launching the rocket.

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.

MARKING GUIDE & SHOCK CORD MOUNT



BUILD TEMPLATES

