

# **MINTAKA**







Skill Level INTERMEDIATE

## 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. Refer to your glue manufacturer's dry times during build.

#### **DESIGNER RECOMMENDATIONS:**

- Wall line count 2-3.
- Infill density 7-10%.
- Position all parts with the top pointed up.
- For the Bellatrix and Rigel rockets, turn on supports from print bed only
- Filament Type: PLA, PETG, or ABS













YELLOW GLUE

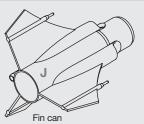
**PENCIL** 

**HOBBY KNIFE** 

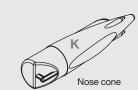
**RULER** 

**FINE SANDPAPER** 

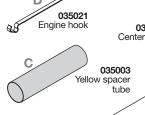
**CA GLUE** 







Parts to be 3D printed





**SUPPLIES** 

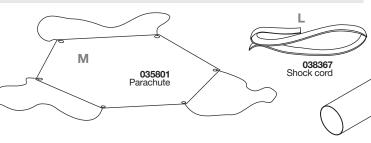
080425 Split centering

В 030162-2 Engine block



ring



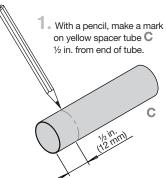


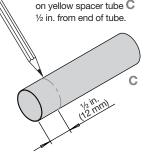


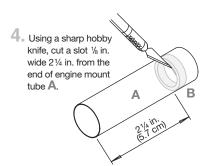


090001-1867 Self stick decals

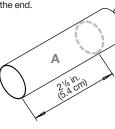
# ASSEMBLE ENGINE MOUNT



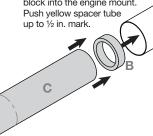


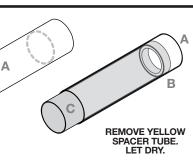


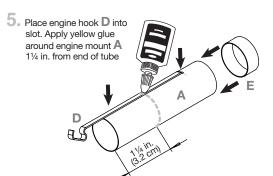
2. Apply yellow glue to the inside of engine mount tube A 2 1/8 in. from the end.



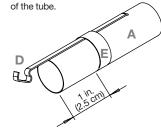
Insert engine block B into engine mount tube A. Use yellow spacer tube C to push the engine block into the engine mount. Push yellow spacer tube up to ½ in. mark.

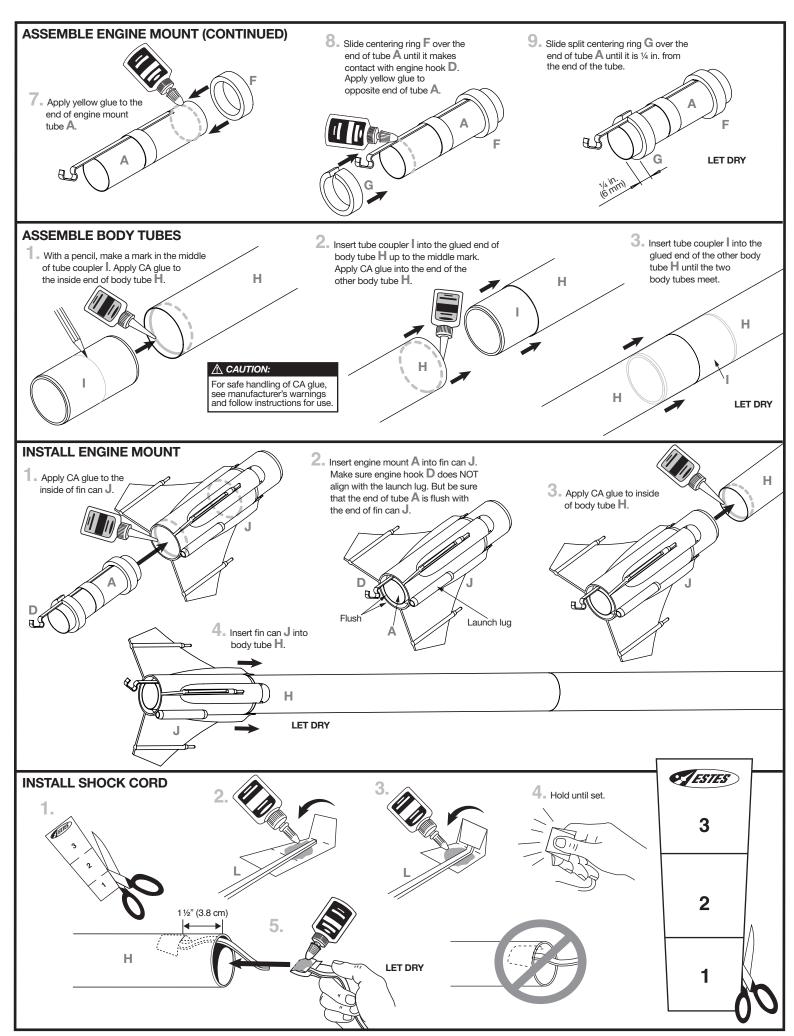


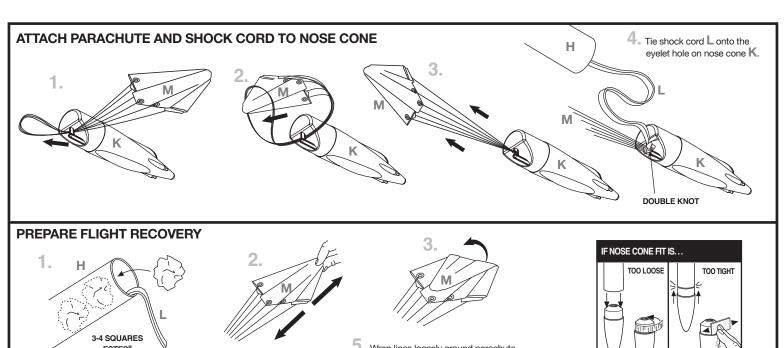


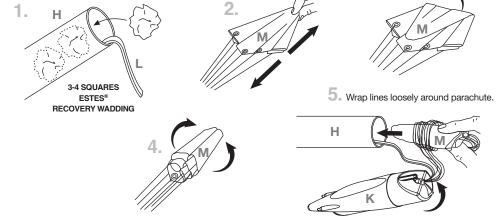


Slide mylar ring E over engine mount A and engine hook D until it is 1 in. from the end of the tube.





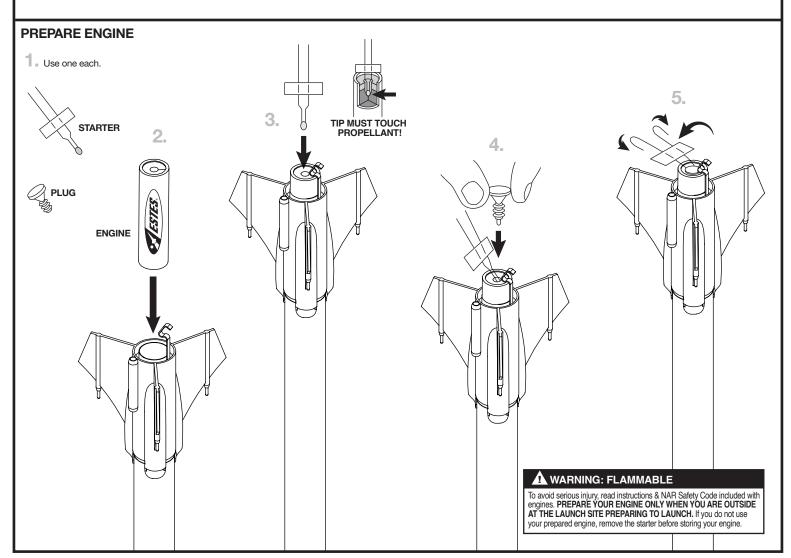


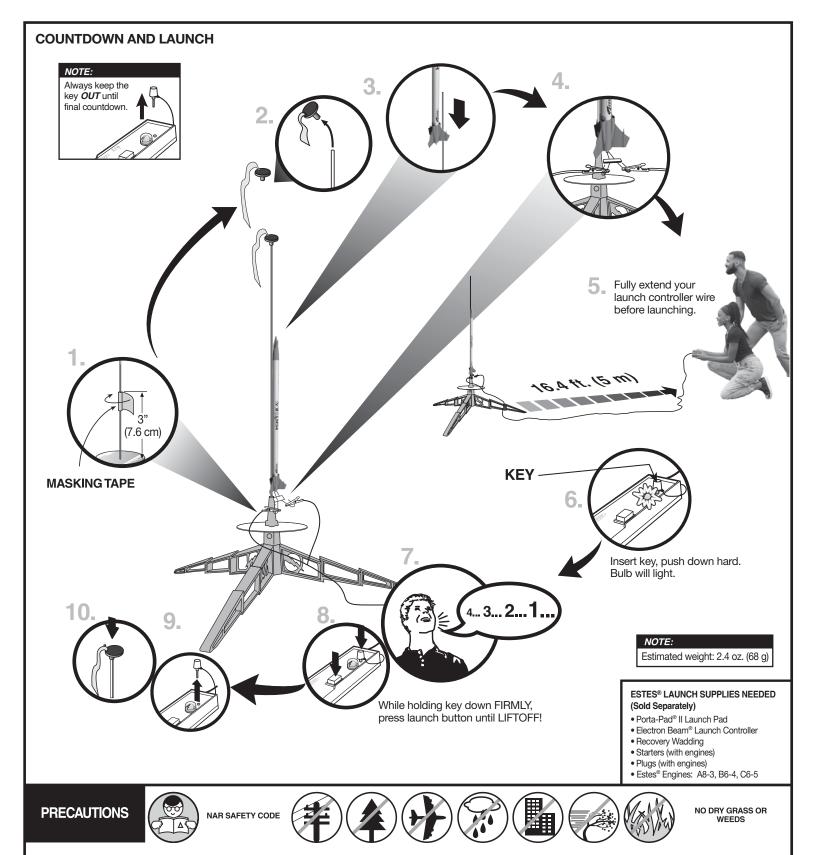




## NOTE:

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





**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.

PAP