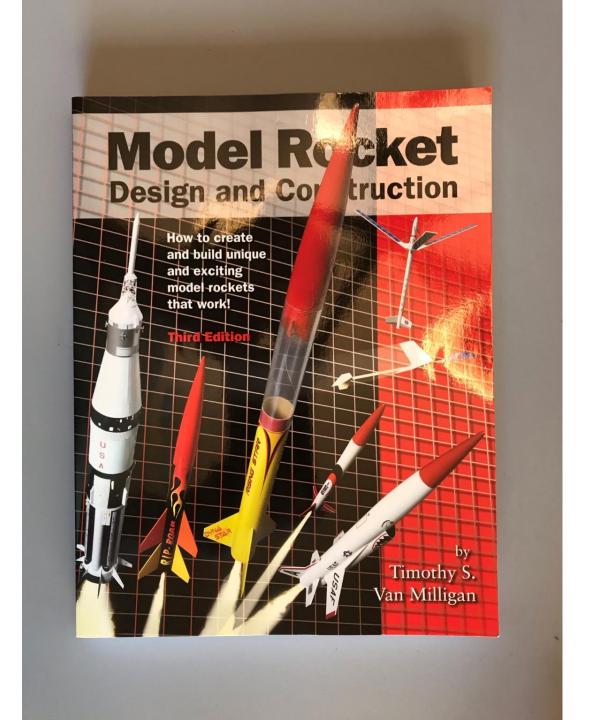
High-Power Rocketry Tote and Lent Parts

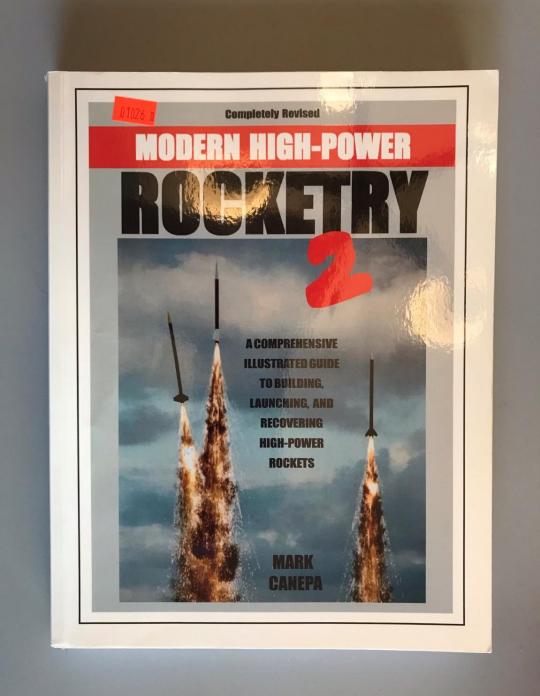
James Flaten
MN Space Grant Consortium
U of MN – Twin Cities
Fall 2021



tote



model rocketry book

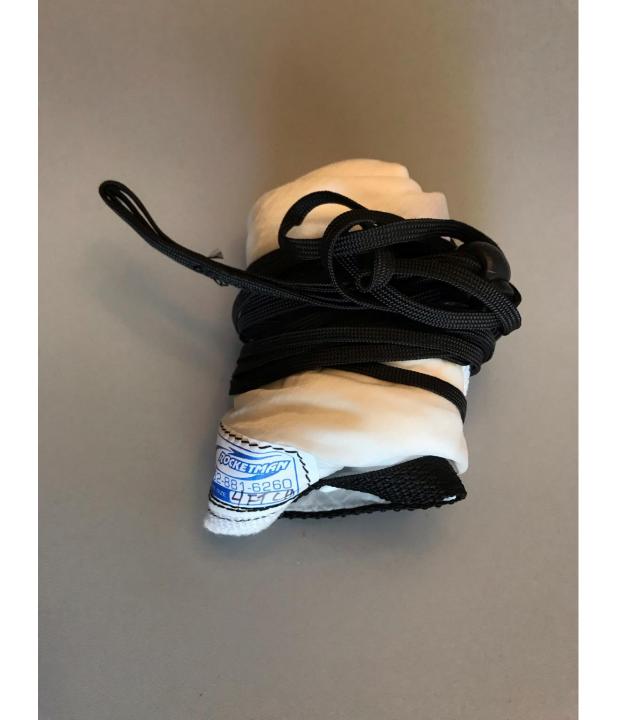


high-power rocketry book



model rocket

not provided: superglue, A8-3 Estes motor, launch pad



4' parachute (what I had around - not necessarily the perfect size)



flame protectors (2 sizes)



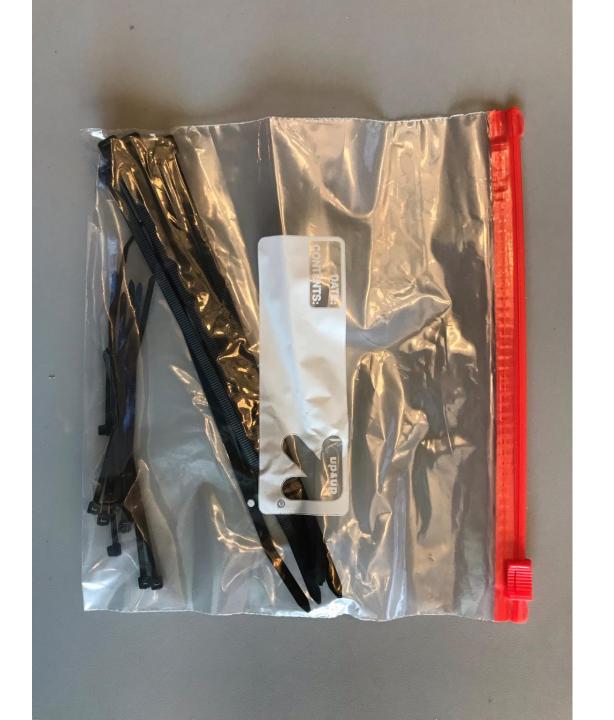
forged eye-bolts, nylon-insert lock-nuts, quick-links



rivets and shear pins



terminal blocks (to wire ejection charges)



zip ties (2 sizes)



battery for altimeter



½" CPVP caps (ejection charge Cannisters)



AltimeterTwo data logger (cannot fire ejection charges)



audio siren



sandpaper (3 grits)



Tack cloth for general cleaning and dusting after sanding



painter's tape for masking



non-stick parchment paper (protect surfaces from epoxy)



Rocketpoxy G 5000 2-component epoxy 1-to-1 mixing ratio



mixing cups, mixing sticks, gloves



spoons (for forming epoxy fillets)



JB Weld (epoxy)
For high-temp. locations
1-to-1 mixing ratio



box cutters (2 sizes)



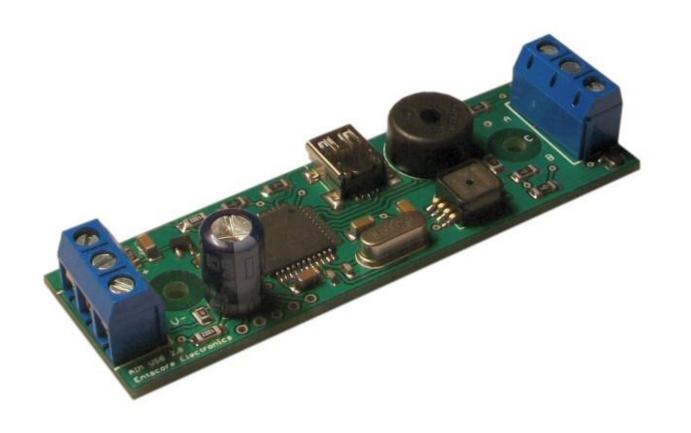
screwdriver with 8 sizes of tiny tips



6' tape measure



scissors

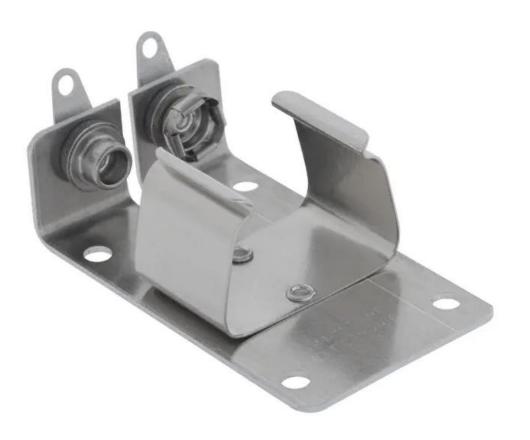


AIM USB altimeter (coming soon)

http://entacore.com/electronics/aimusb



wire for av-bay (coming soon)



9 volt battery holder (coming soon)



Cesaroni 38 mm 3 grain case (coming soon)

https://www.apogeerockets.com/bmz_cache/f/f9dc5ee0f399381220da0904bbd81eb5.image.640x400.jpg

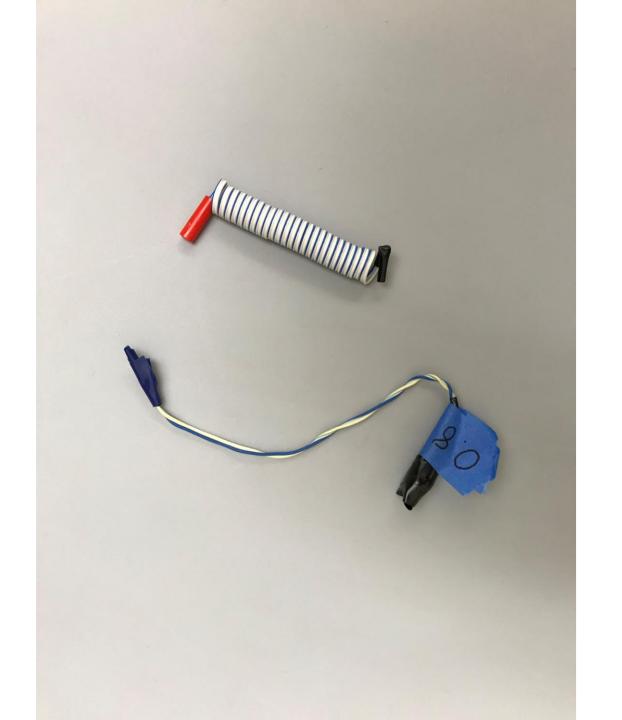


Cesaroni 38 mm 1 grain spacer (coming soon)

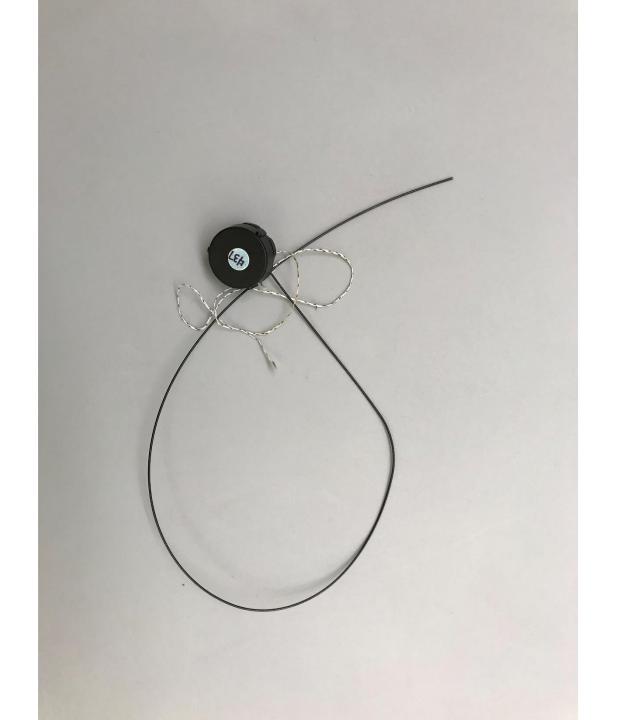


provided at launch: Cesaroni 38 mm 2-grain H225 White Thunder motor

https://www.apogeerockets.com/Rocket_Motors/Cesaroni_Propellant_Kits/Cesaroni_Certification_Special /38mm_Certification_Propellants/Cesaroni_P38-2G_White_Thunder_H225



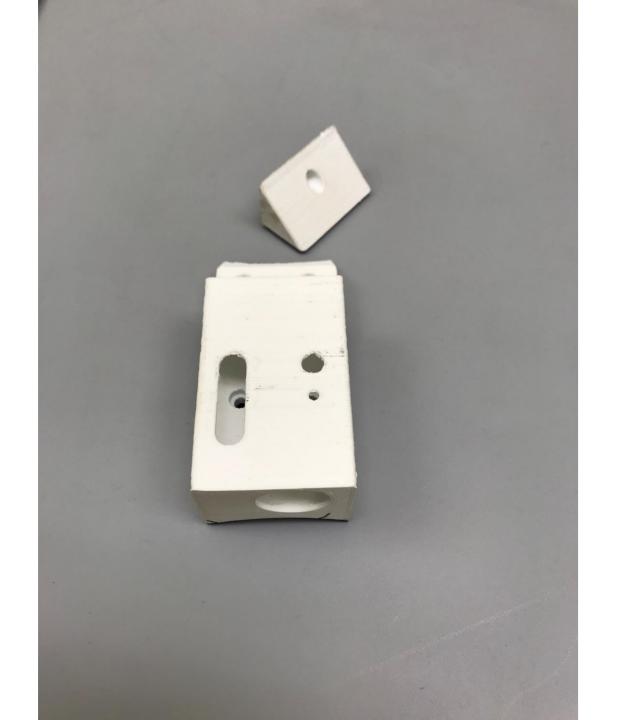
provided at launch: e-matches and ejection charges (made to order)



lent at launch: radio beeper



provided at launch: styrofoam packing peanuts



not provided but CAD file provided upon request (optional): 3D printed camera mount



lent at launch (optional):
Mobius camera with SD card

https://www.mobius-actioncam.com/

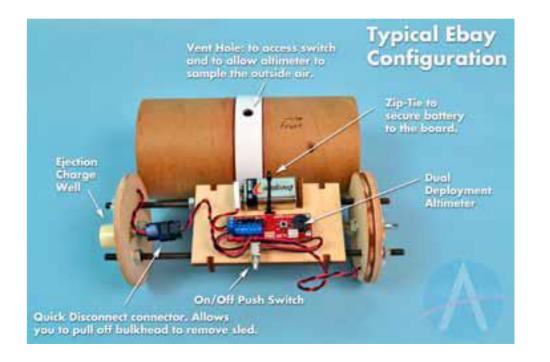
Colors



https://www.homedepot.com/b/Paint-Spray-Paint/N-5yc1vZapz5



not provided: pvc rocket cradle (make your own, if desired)



https://www.apogeerockets.com/education/downloads/Newsletter389.pdf

not provided: av-bay "sled" On which to mount altimeter and battery (make one out of thin wood) tools not provided, but useful to have access to:

- fine tip permanent marker
- pliers
- wire stripper
- multimeter
- safety glasses
- Dremel-type tool with cutting and grinding bits
- drill with bit set that goes down to 1/16" diameter
- scale that reads down to gram resolution
- soldering equipment (to wire av-bay)