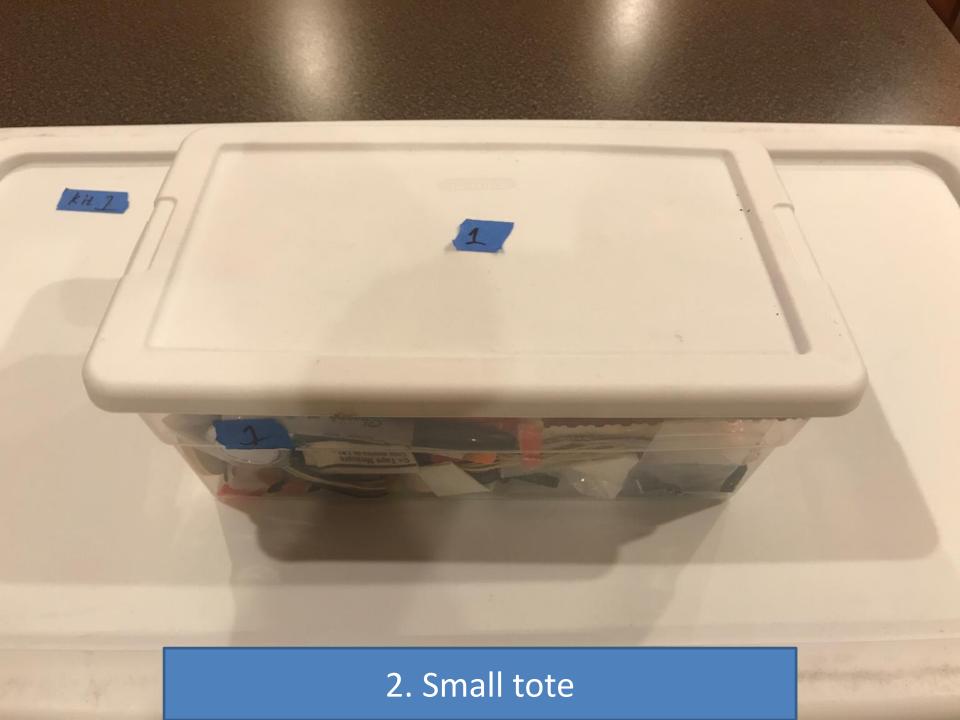
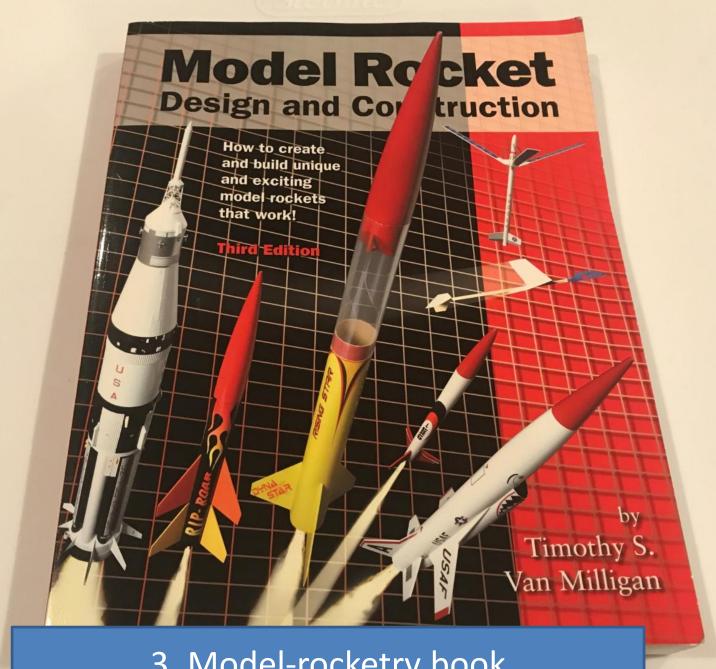
## MN Space Grant Consortium (MnSGC) Videocon High-Power Rocketry Lessons Tote Content Photos Fall 2018

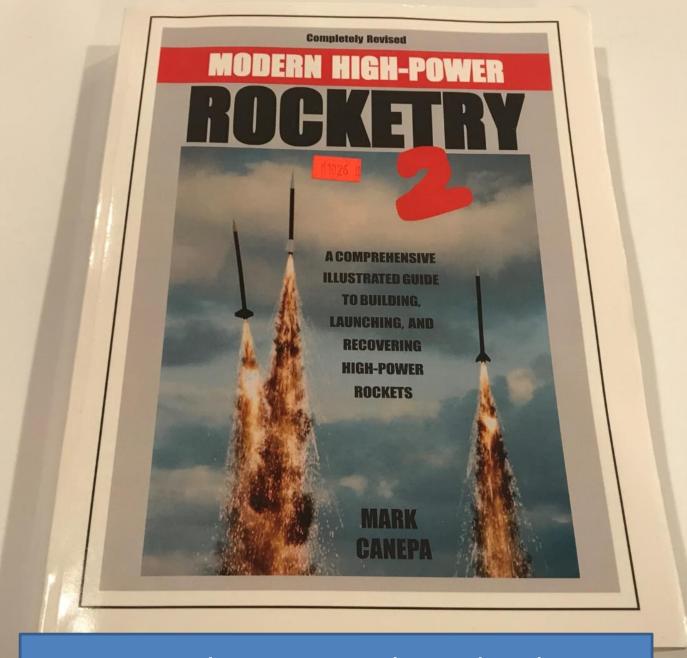
James Flaten flate001@umn.edu
Associate Director of NASA's MnSGC
U of MN – Twin Cities



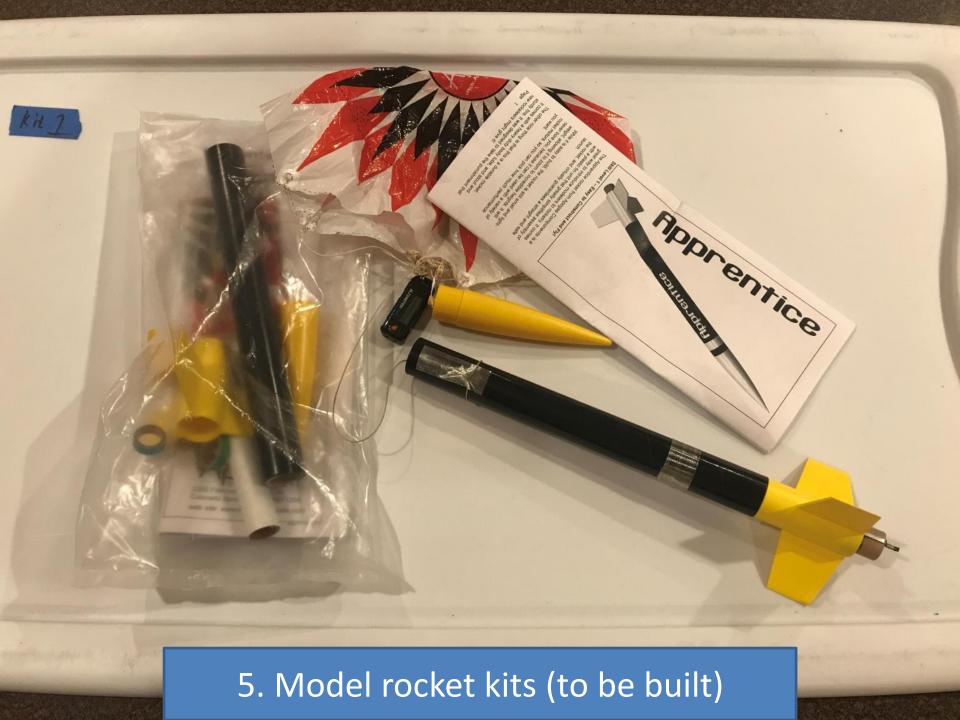


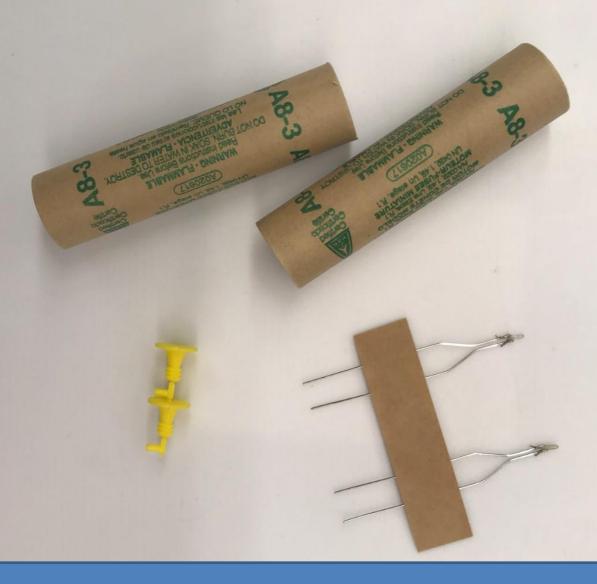


3. Model-rocketry book



4. High-power rocketry book

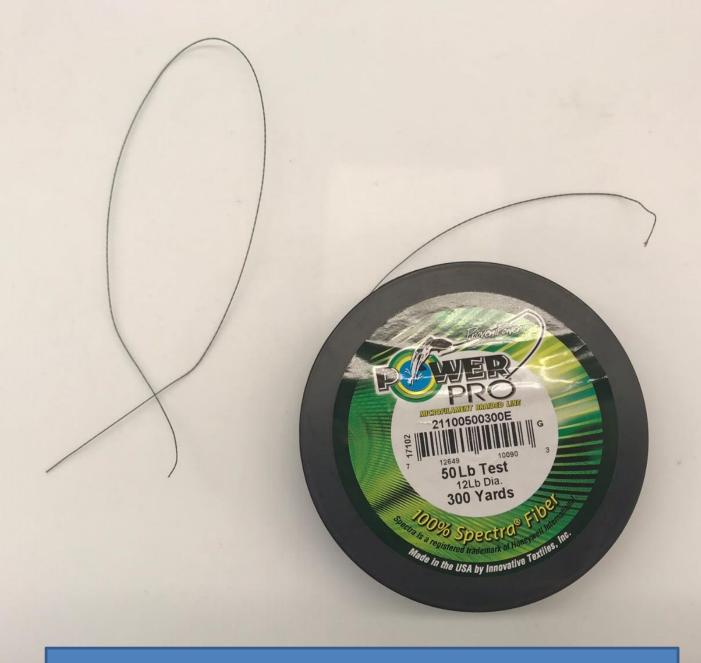




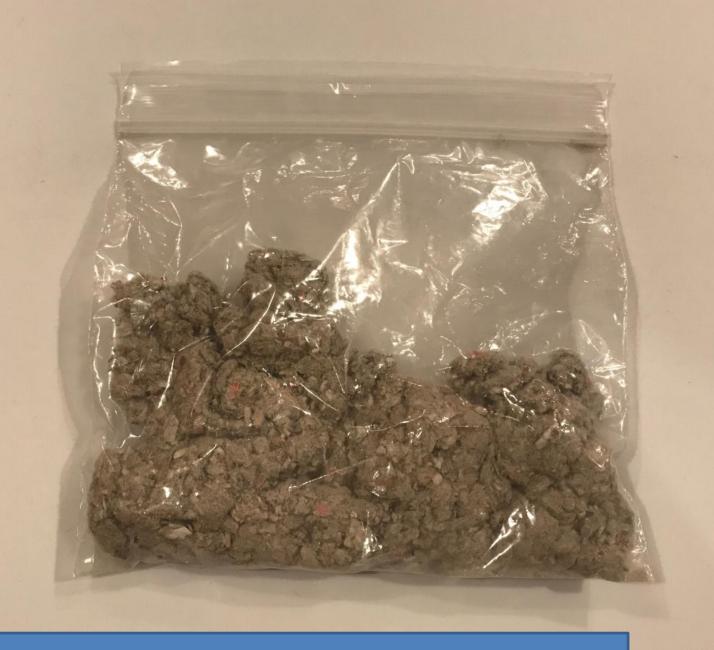
6. Model rocket motors and igniters



6A. Fishing clips (for model modification)



6B. String (for model modification)



7. "Rocket barf" (instead of wadding)



8. Super glue (gel type)



9. JB Weld (high-temp epoxy)



10. RocketPoxy (2-component epoxy)





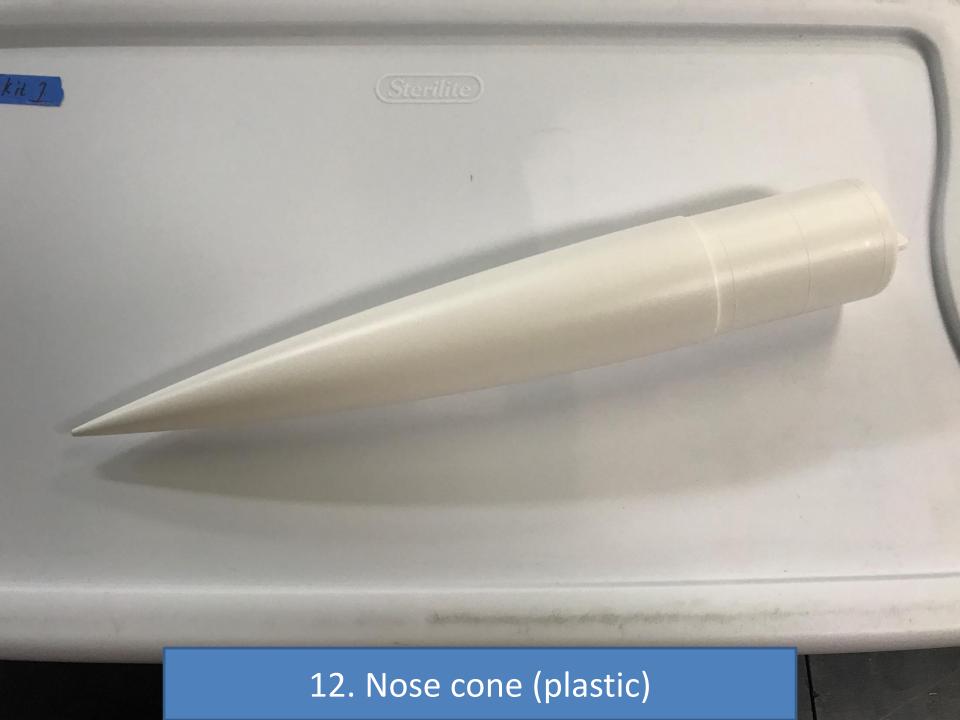
11A. Filled epoxy tube



11B. Empty tubes (to be filled with epoxy)



11C. Syringes (use for filling epoxy tubes)





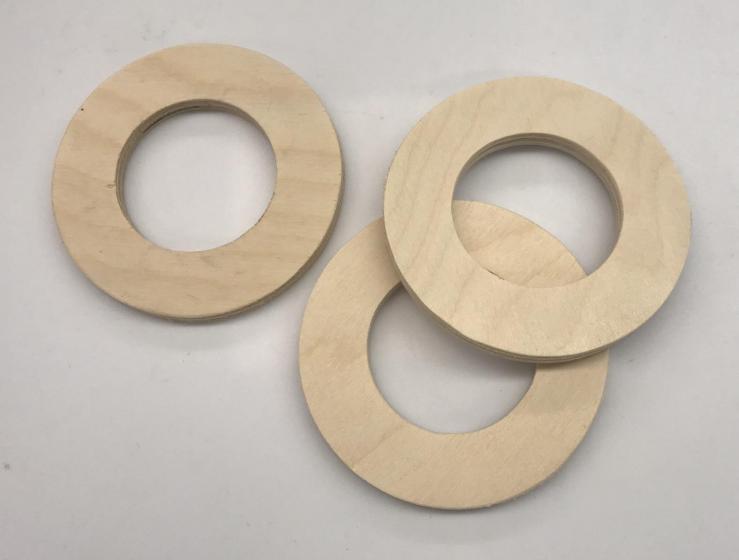




14A. Av-bay "sled" (too small)



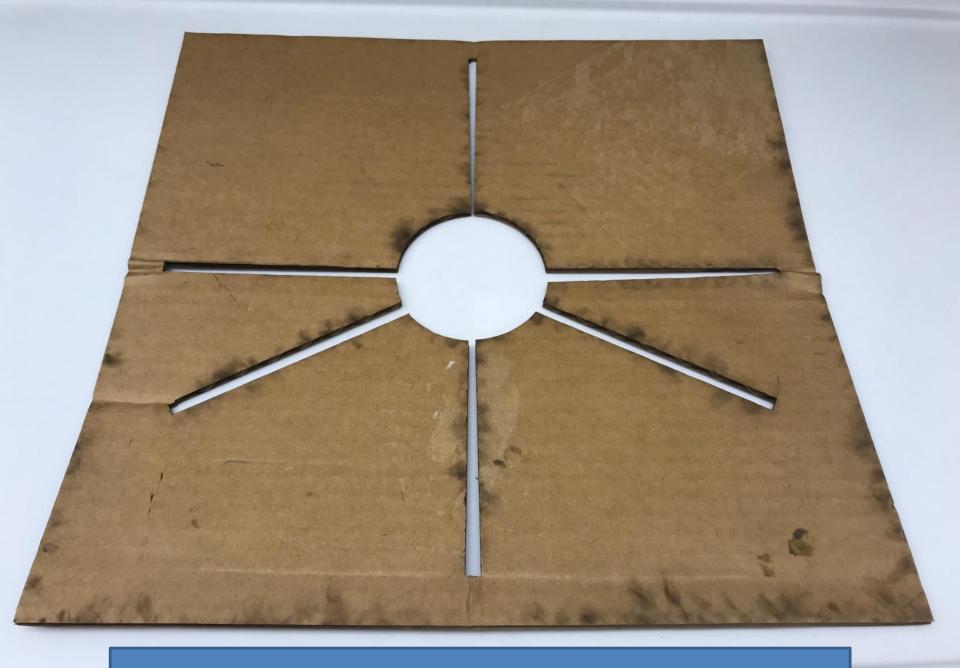




16A. Centering ring set (original)



16B. Centering ring new set (notches incorrect)



16C. Fin holder (if not using notched rings)





18. Motor retainer (two parts)



19. Motor casing (3-grain, 38 mm dia)



20. Drogue recovery harness (12' long)



21. Main recovery harness (~10' long)

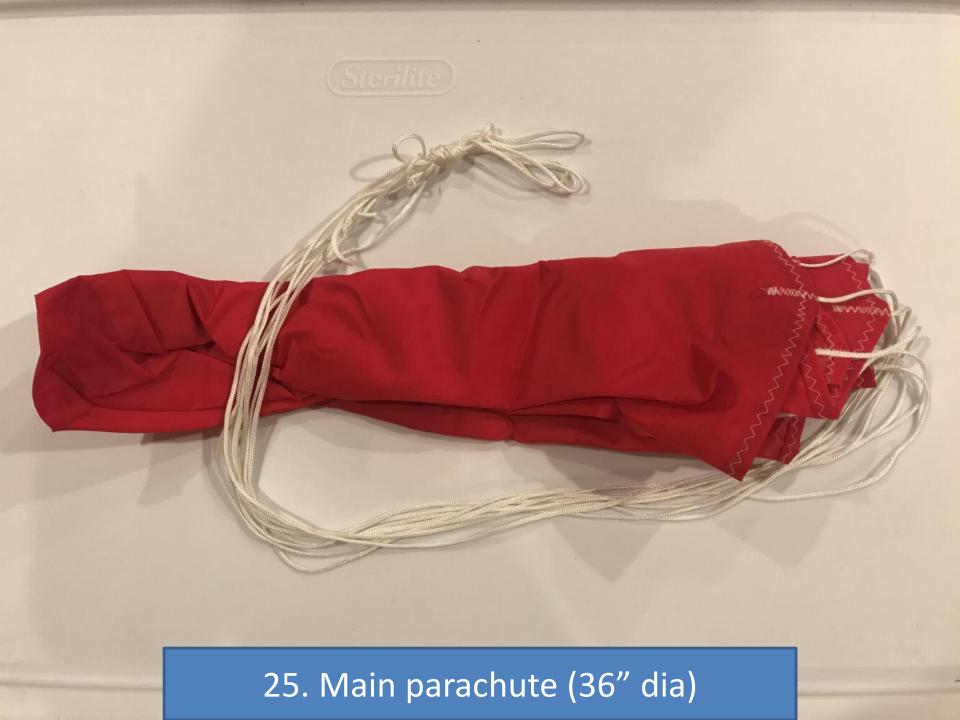


22. Piston strap (~6' long)



23. Piston body (coupler tubing)







26. Drogue parachute (modified) (15" dia)







# 29. Quick-links



30. Audio siren (not distributed in 2018)



31. Forged eyebolts, washers, nylon-insert lock-nuts



32. Altimeter Three (data logger)



33. Raven3 altimeter (for av-bay)



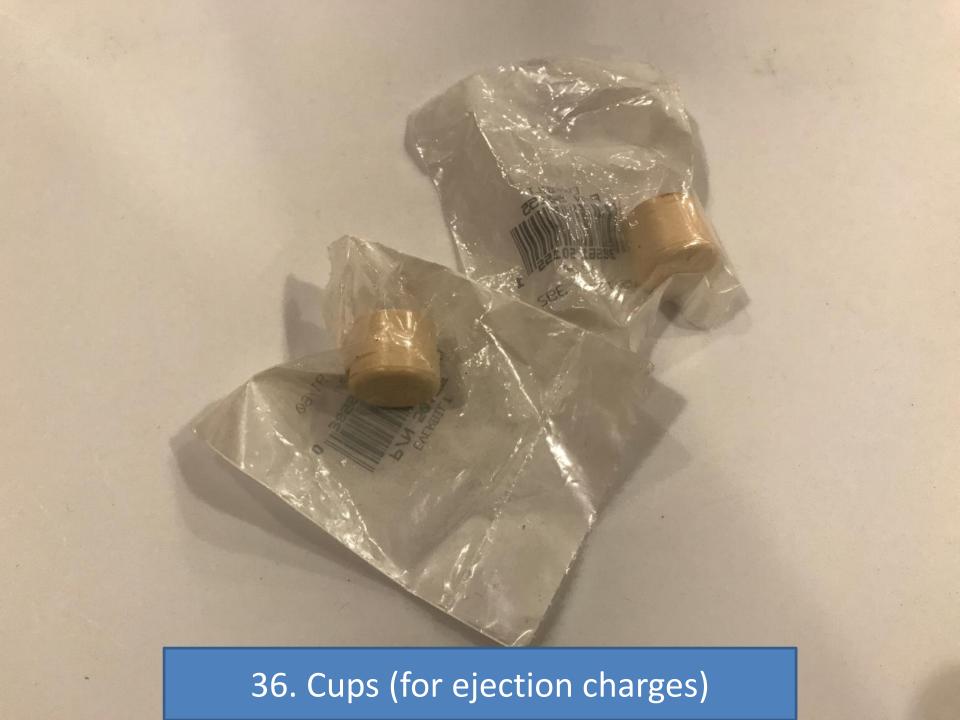
33A. LEDs and resistors for Raven3 test



### 34. Screw switch

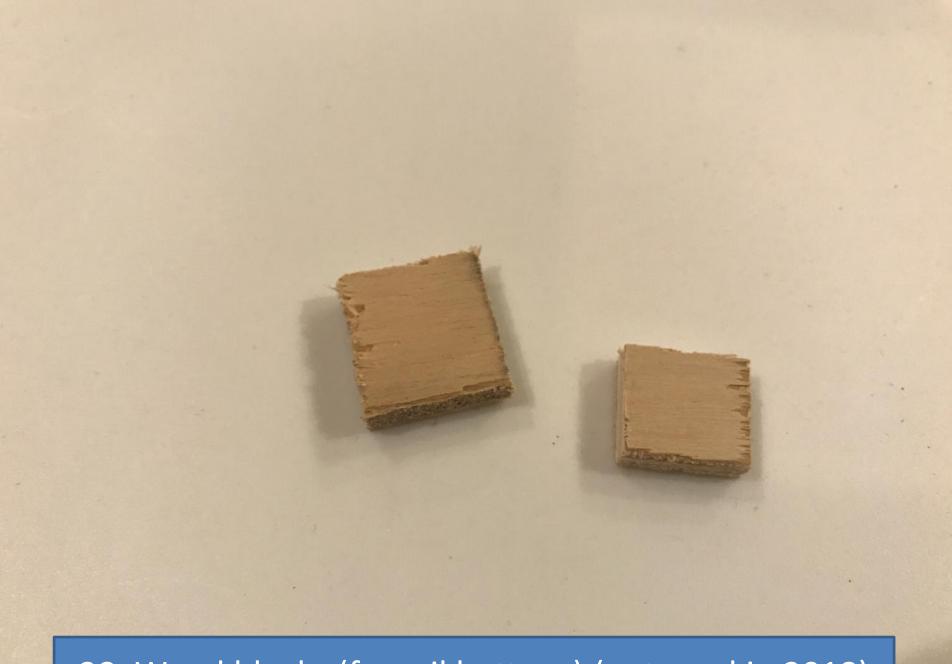


# 35. Battery mount





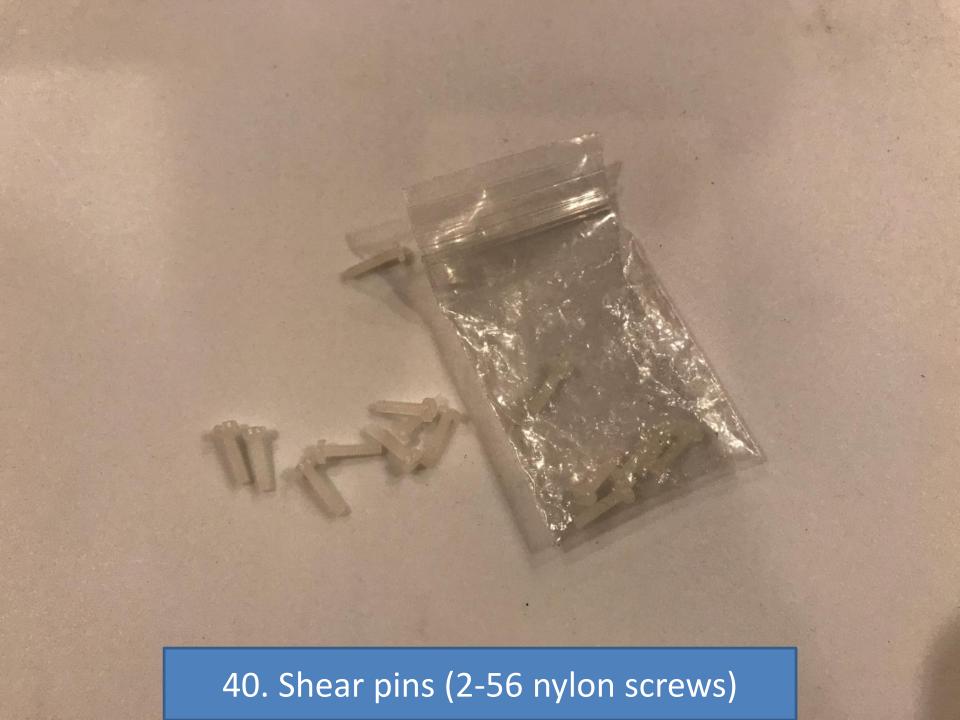
37. Rail buttons (10-10 size) (new style in 2018)

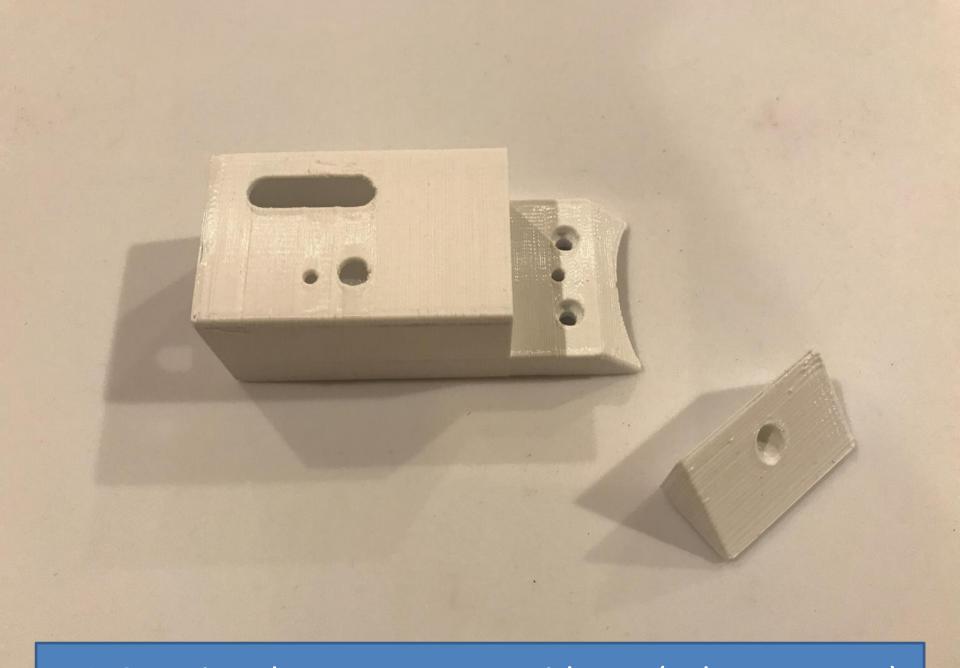


38. Wood blocks (for rail buttons) (not used in 2018)



39. Rivets





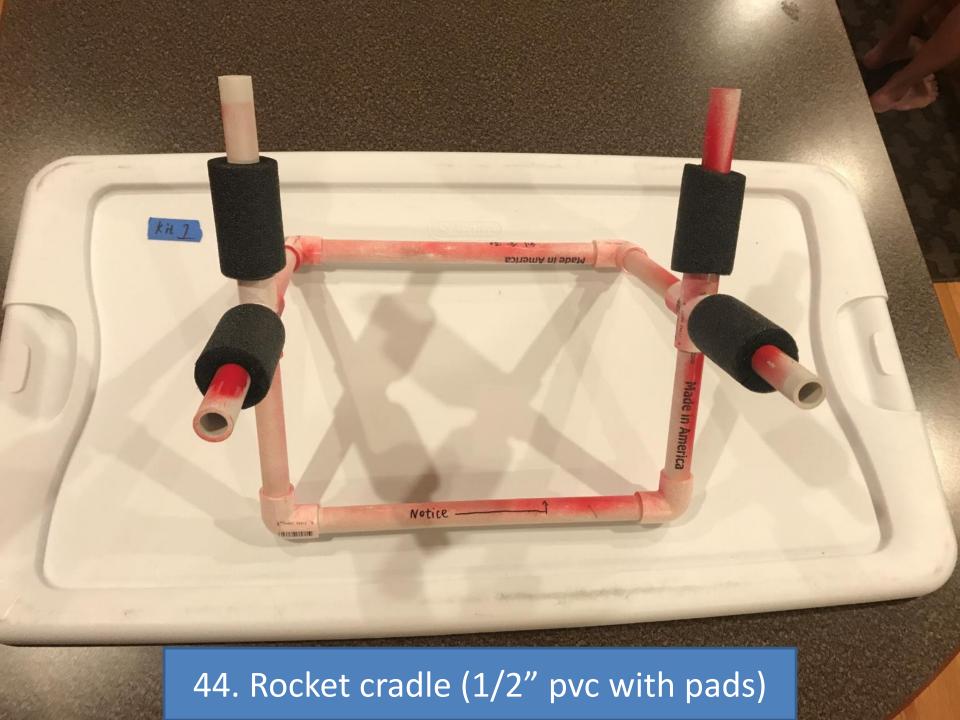
41. 3D printed camera mount with cap (color may vary)



42. Wood block (for camera mount) (optional in 2018)



43. Wood screws (for battery mount)





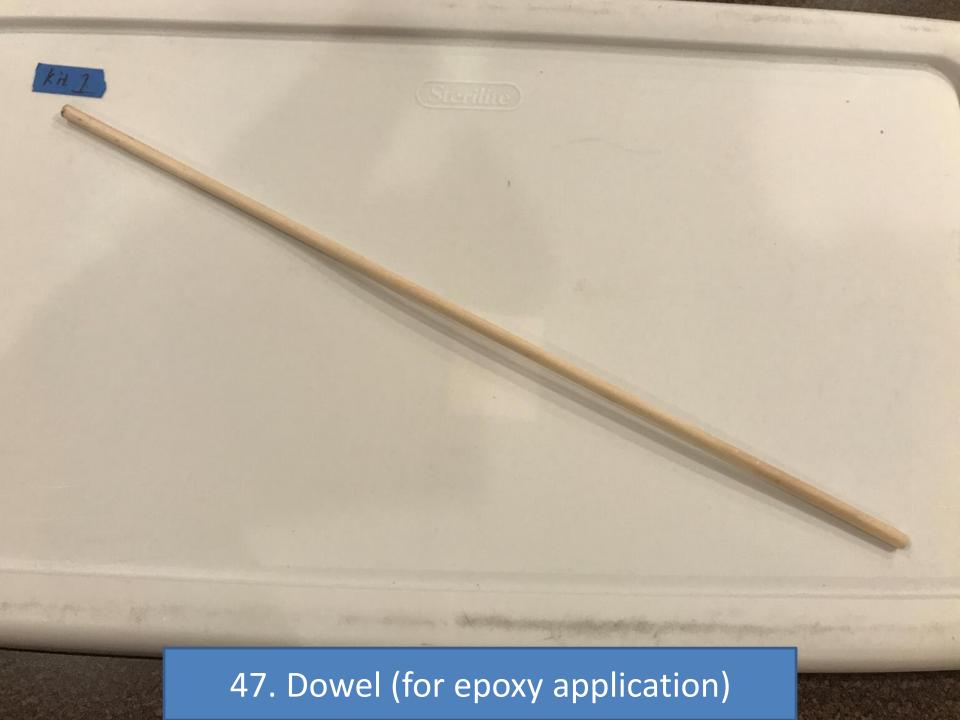
45. Epoxy mixing cups (Dixie cups) (note logo)



46. Epoxy stirring sticks



46A. Spoons for making epoxy fillets





48. Blue painters tape



49. Strapping tape, electrical tape



50. Zip ties (assorted)



51. Sand paper (various grits)



52. Tack cloth (for dust removal)



53. Tape measure (not provided in 2018)



54. Jewel screwdriver set (tips go inside handle)



55. Utility knife (with break-away blades)



56. Nitrile gloves (disposable)



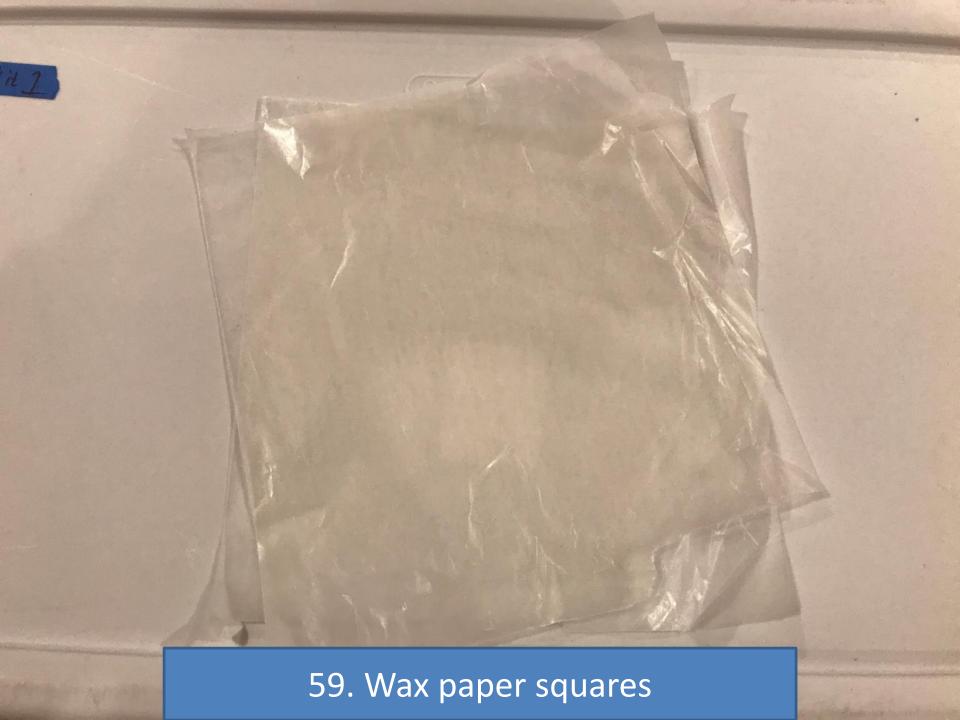
57. Duracell 9-volt batteries



58. Wire for av-bay (22 gauge stranded)



58A. Terminal block (will use 2 or 3)





#### 60. Scissors



# 61. Sharpie marker





Will lend out: 63. Mobius video camera



Will lend out: 64. Radio beeper



Will provide: 65. Pyrodex (for ejection charges)



Will provide: 66. I-170 high-power rocket motor