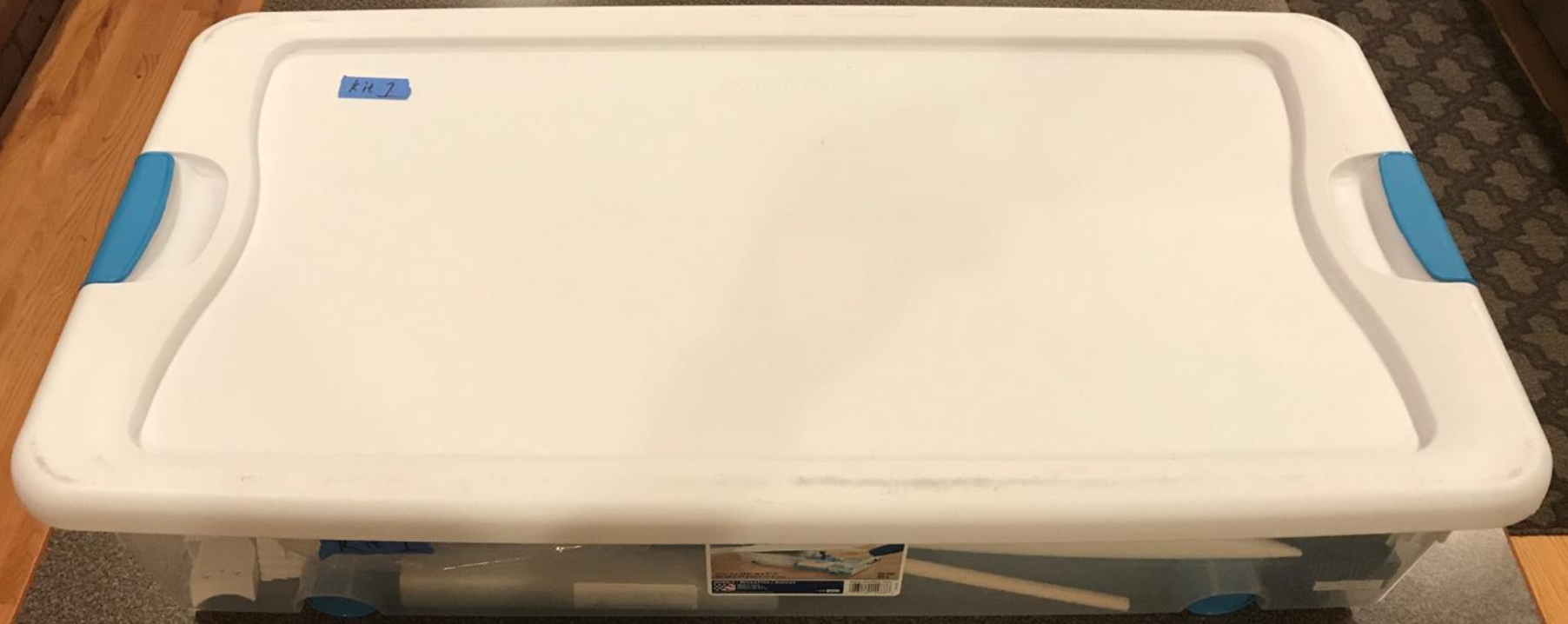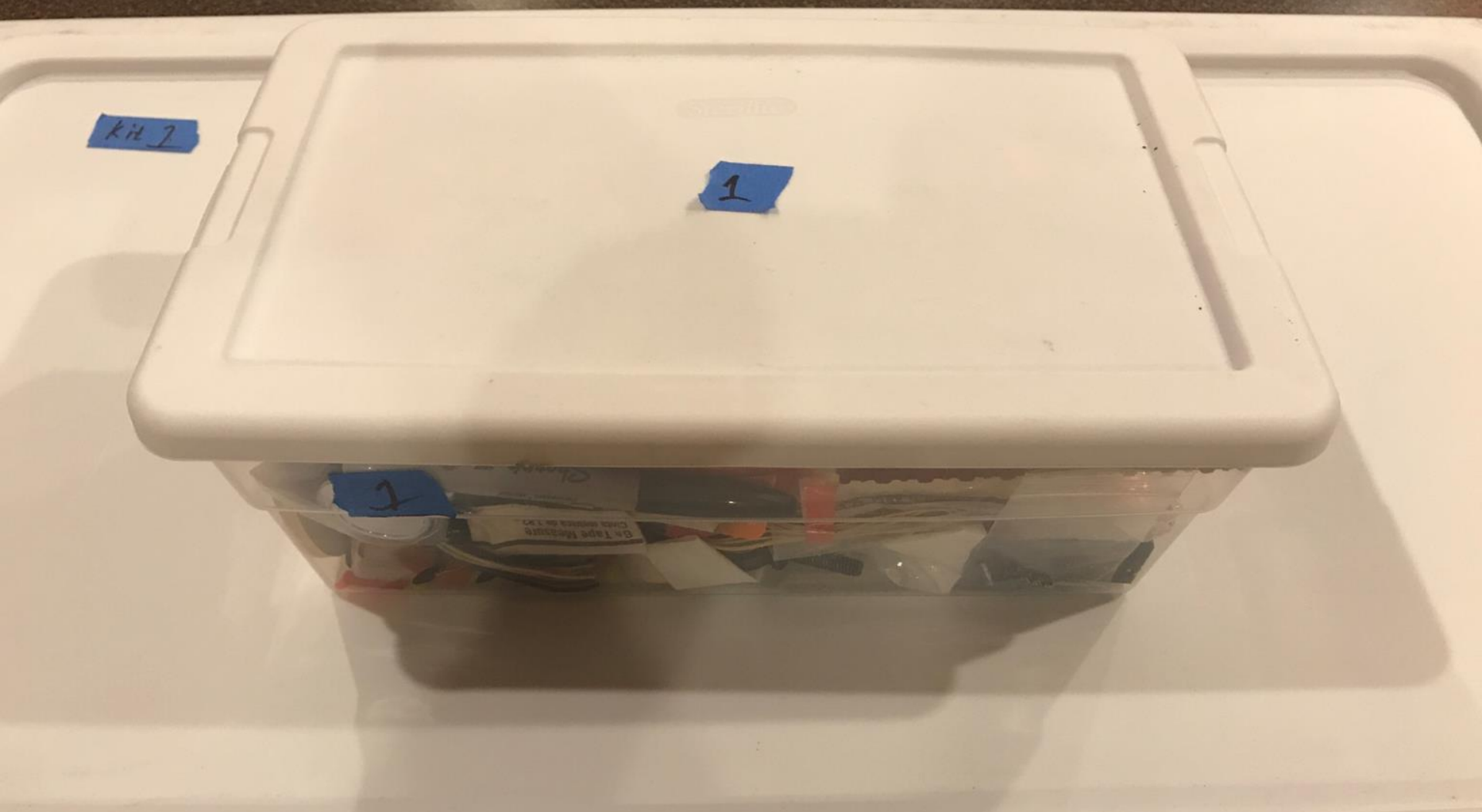# MN Space Grant Consortium (MnSGC) Remote High-Power Rocketry Lessons Tote Contents (Photos) Fall 2017

James Flaten   flate001@umn.edu

Associate Director of NASA's MnSGC

U of MN – Twin Cities

1. Large tote

2. Small tote

3. Model-rocketry book

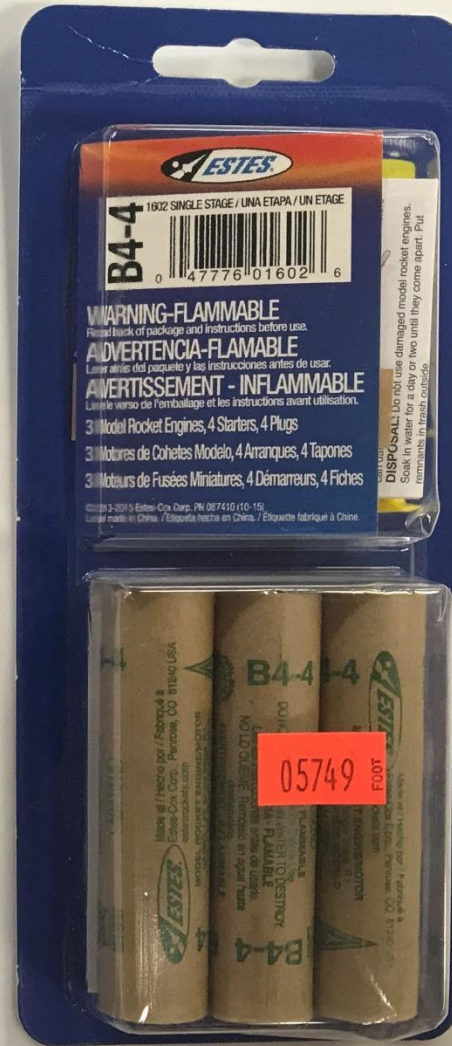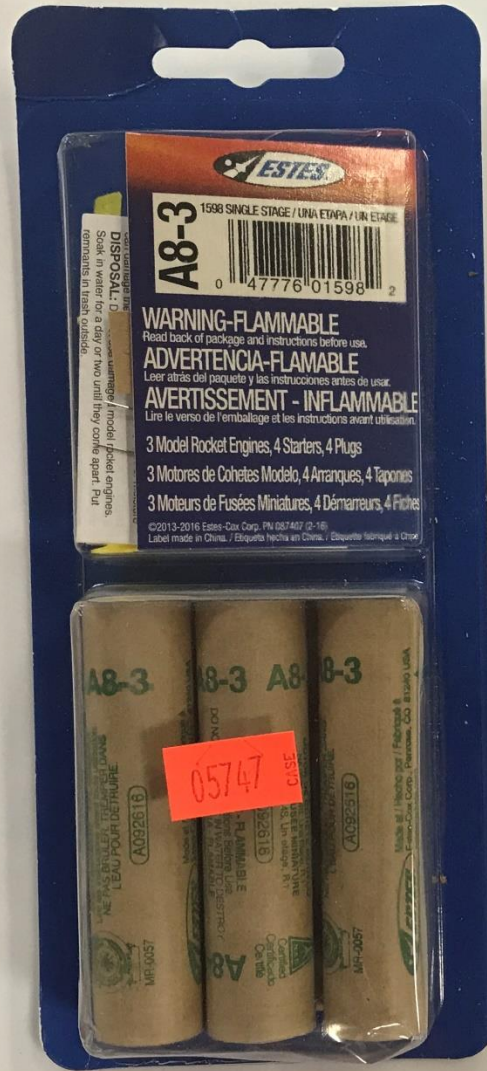**Completely Revised**
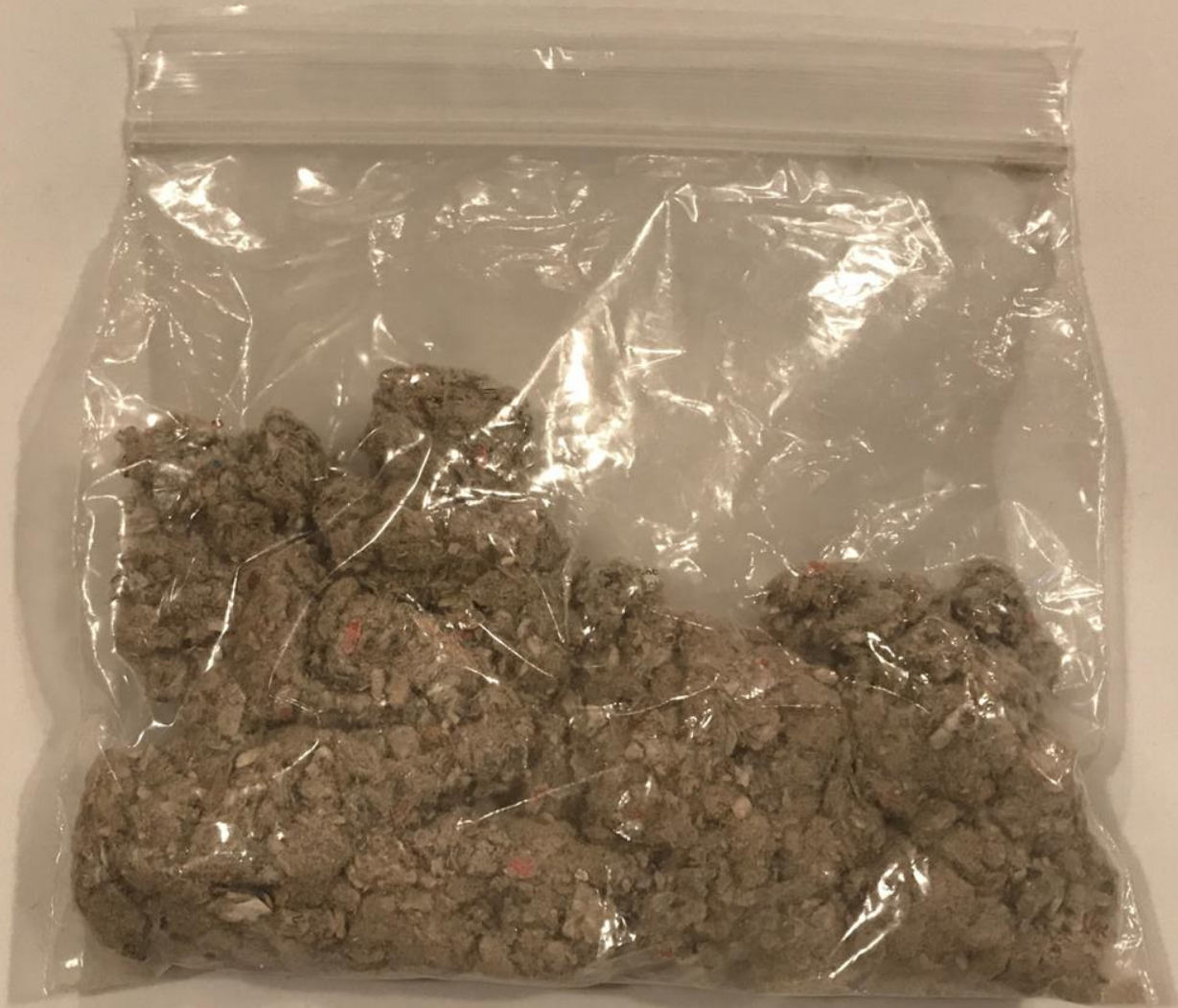
MODERN HIGH-POWER

ROCKETRY

2

A COMPREHENSIVE ILLUSTRATED GUIDE TO BUILDING, LAUNCHING, AND RECOVERING HIGH-POWER ROCKETS

MARK CANEPA

4. High-power rocketry book

5. Model rocket kits (to be built)

6. Model rocket motors (two types)

7. "Rocket barf" (instead of wadding)

8. Super glue

9. JB Weld (high-temp epoxy)
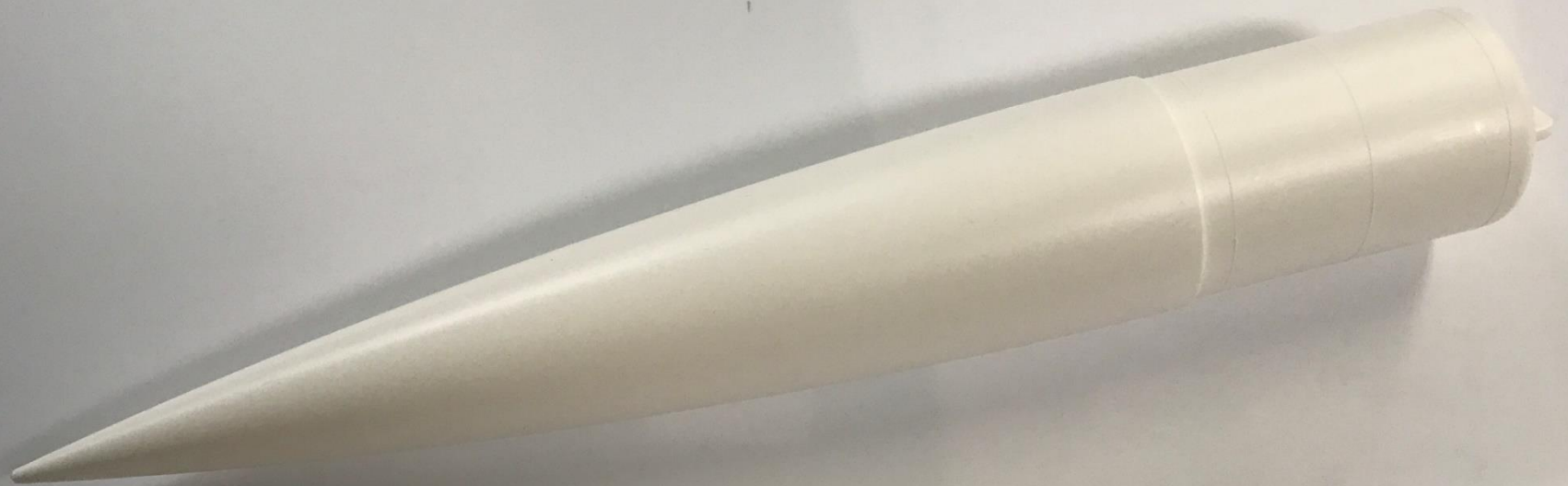
10. DP 420 NS "no sag" epoxy tubes

11. Applicator gun for DP 420 tubes

12. Nose cone (plastic)

13. Upper airframe tube (Blue Tube)

14. Av-bay (many parts)

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

15. Lower airframe (with fin slots)

16. Fin set and centering ring set

17. Motor-mount tube (38 mm dia)

18. Motor retainer (two parts)

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

20. Recovery harness (12' section)
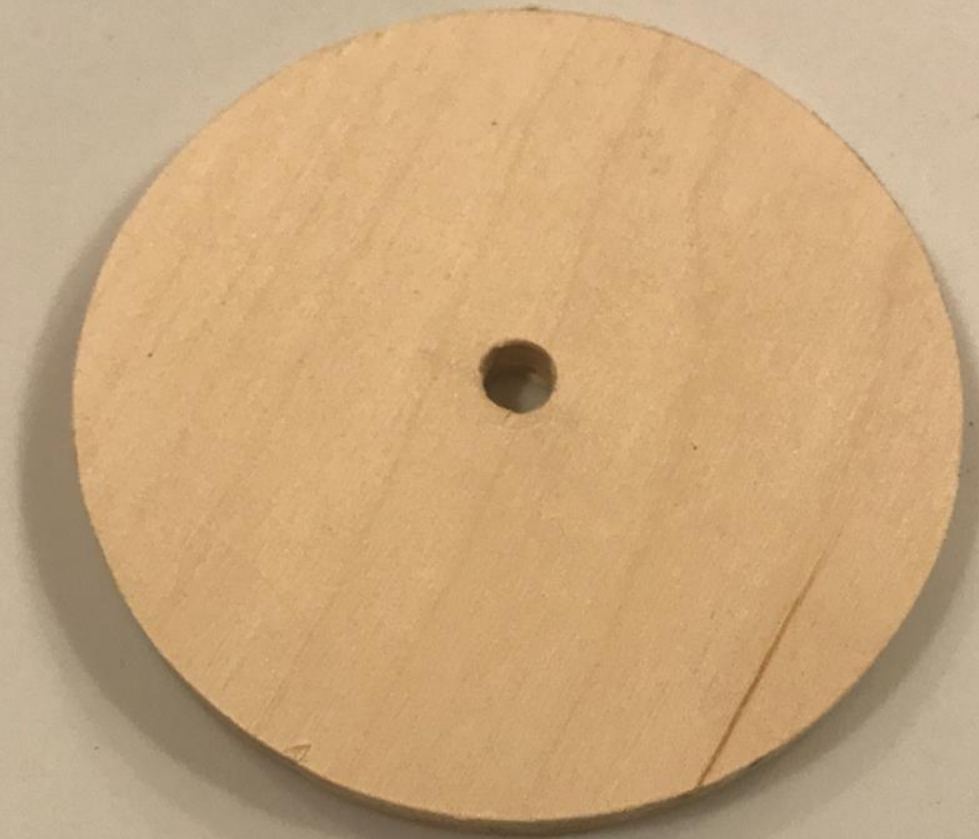
21. Recovery harness (6' section)

22. Piston strap (~3-4' long)

23. Piston body (coupler tubing)

24. Piston bulkplate

25. Main parachute (36" dia)

26. Drogue parachute (15" dia)

27. Large flame protector (12" x 12")

28. Small flame protector (9" x 9")

29. Quick-links

30. Audio siren (type may vary)

31. Forged eyebolts, washers, lock-nuts

32. Altimeter Three (data logger)

33. Raven3 altimeter (for av-bay)

34. Screw switch

35. Battery mount

36. Cups (for ejection charges)

37. Rail buttons (10-10 size)

38. Wood blocks (for rail buttons)

Off We Go Rocketry
Rivets - Black Nylon
Rivets - Black Nylon
$4.95

1108
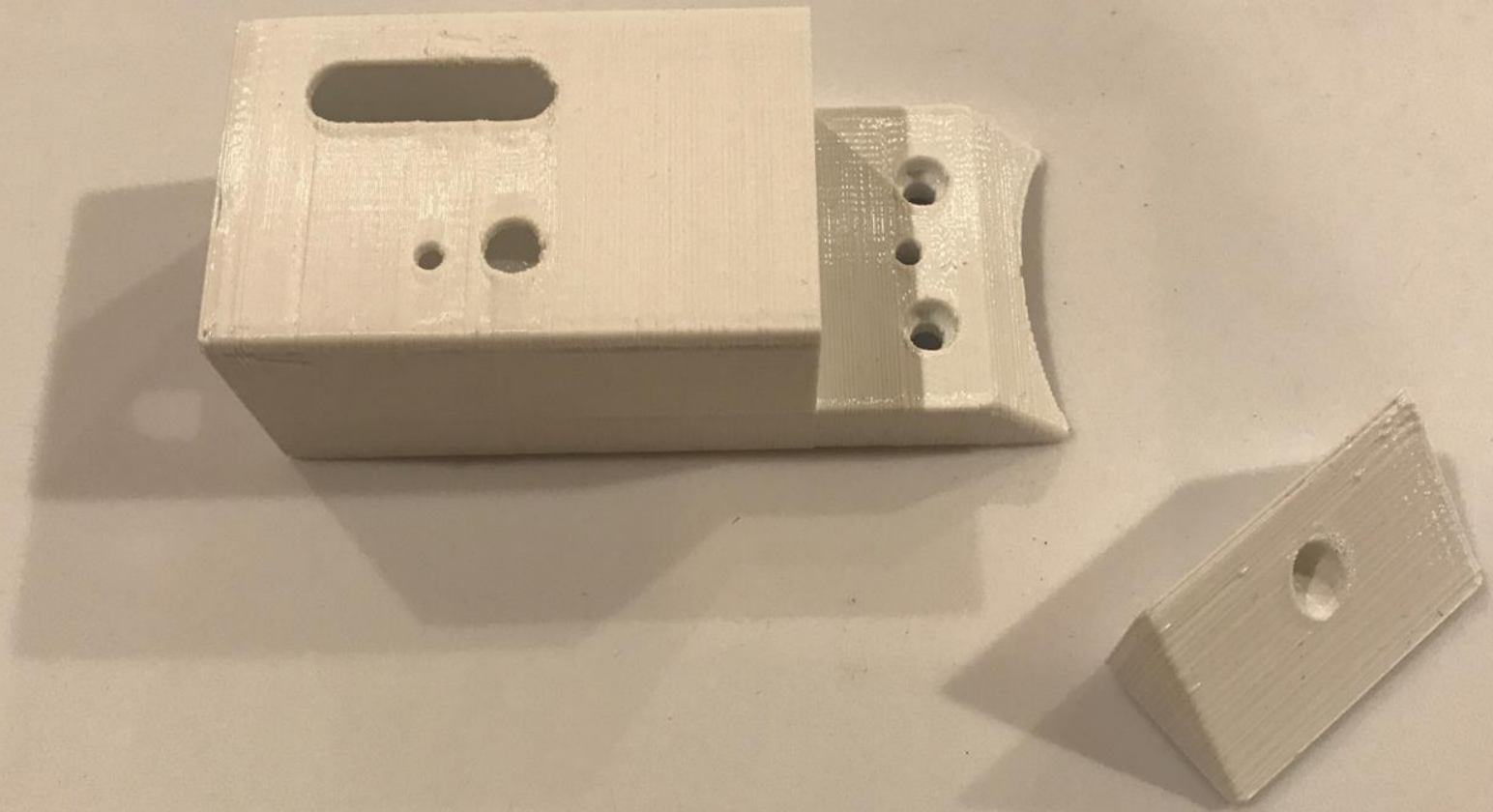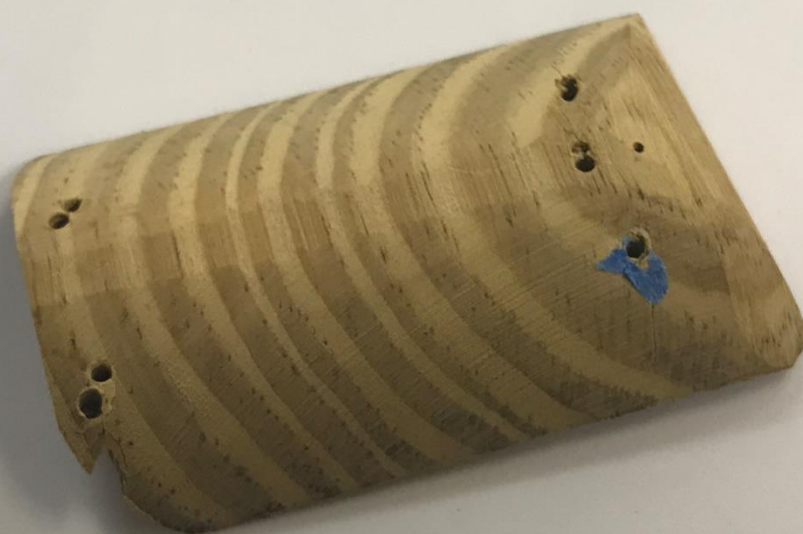
39. Rivets
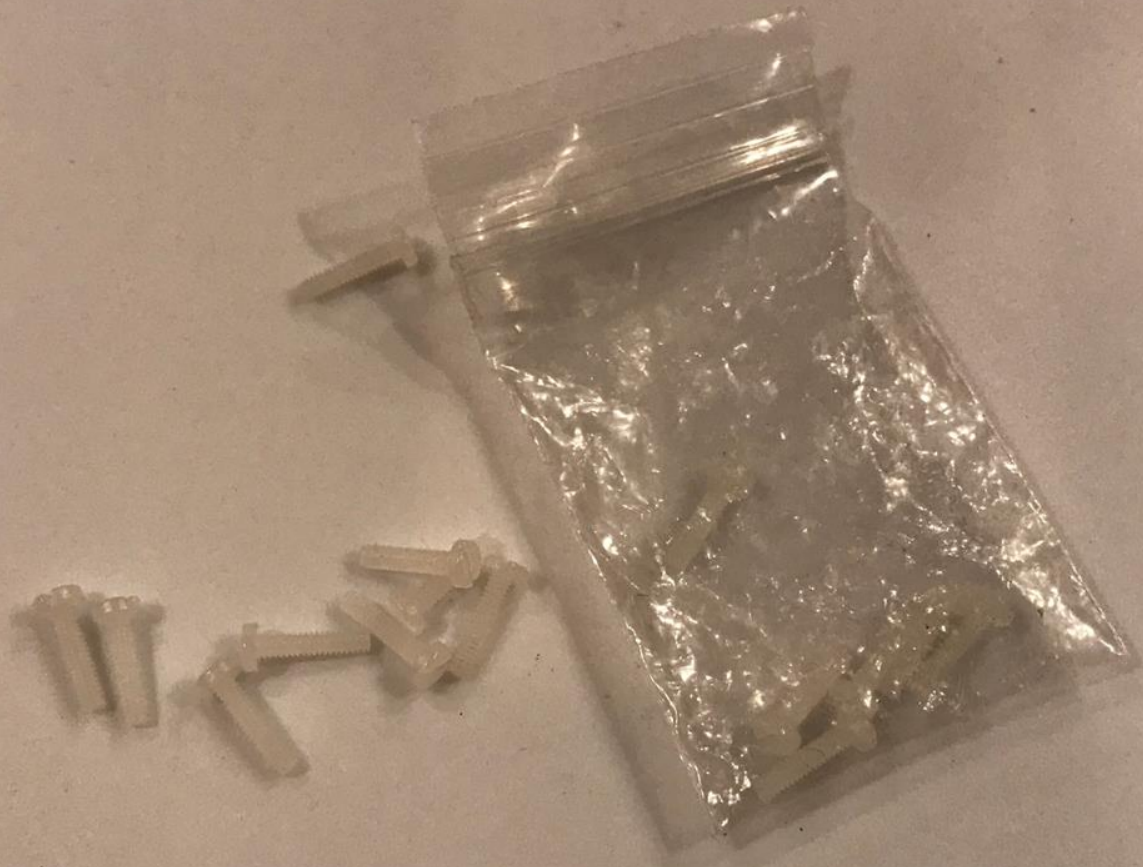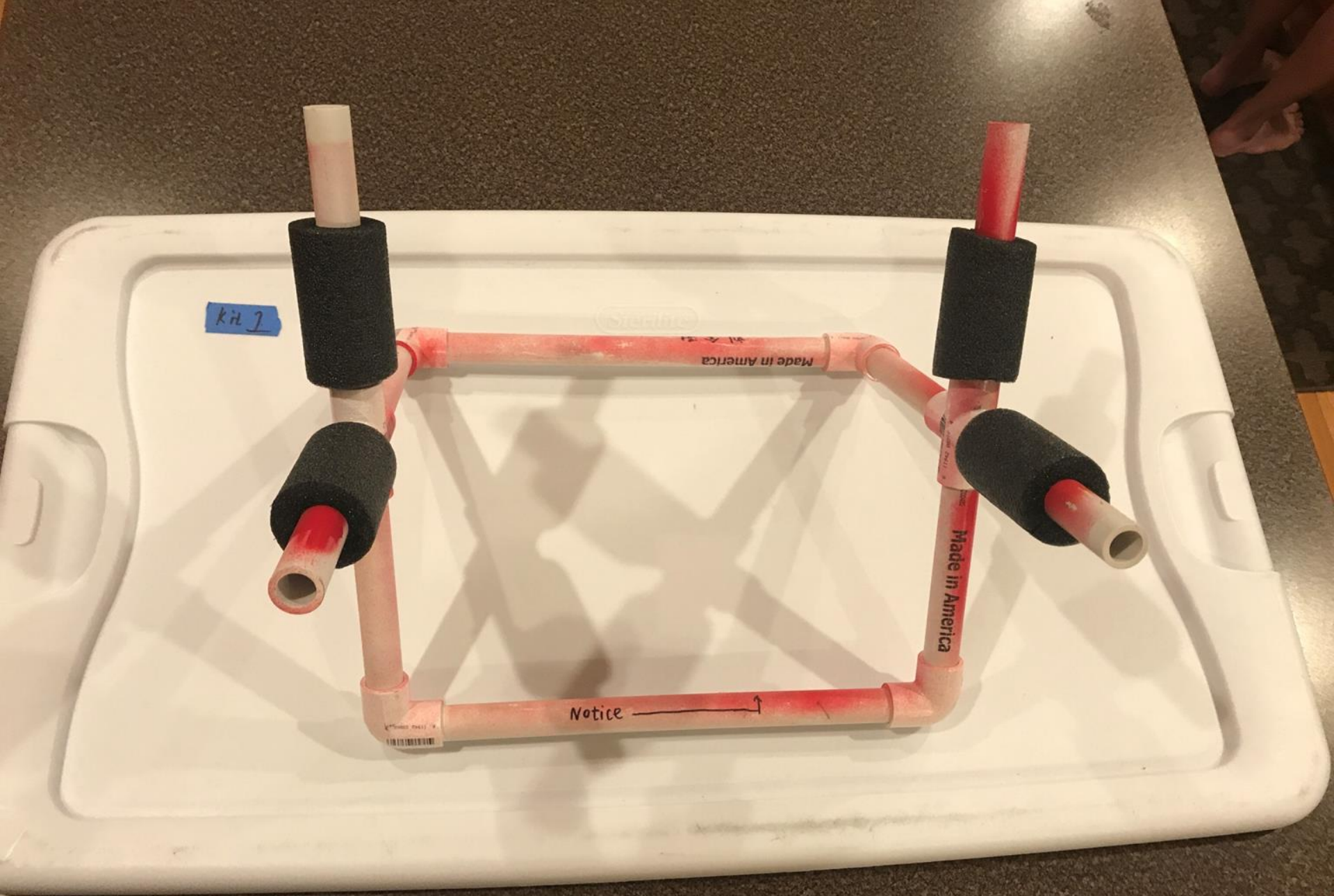
40. Shear pins (2-56 nylon screws)

41. 3D printed camera mount with cap

42. Wood block (for camera mount)
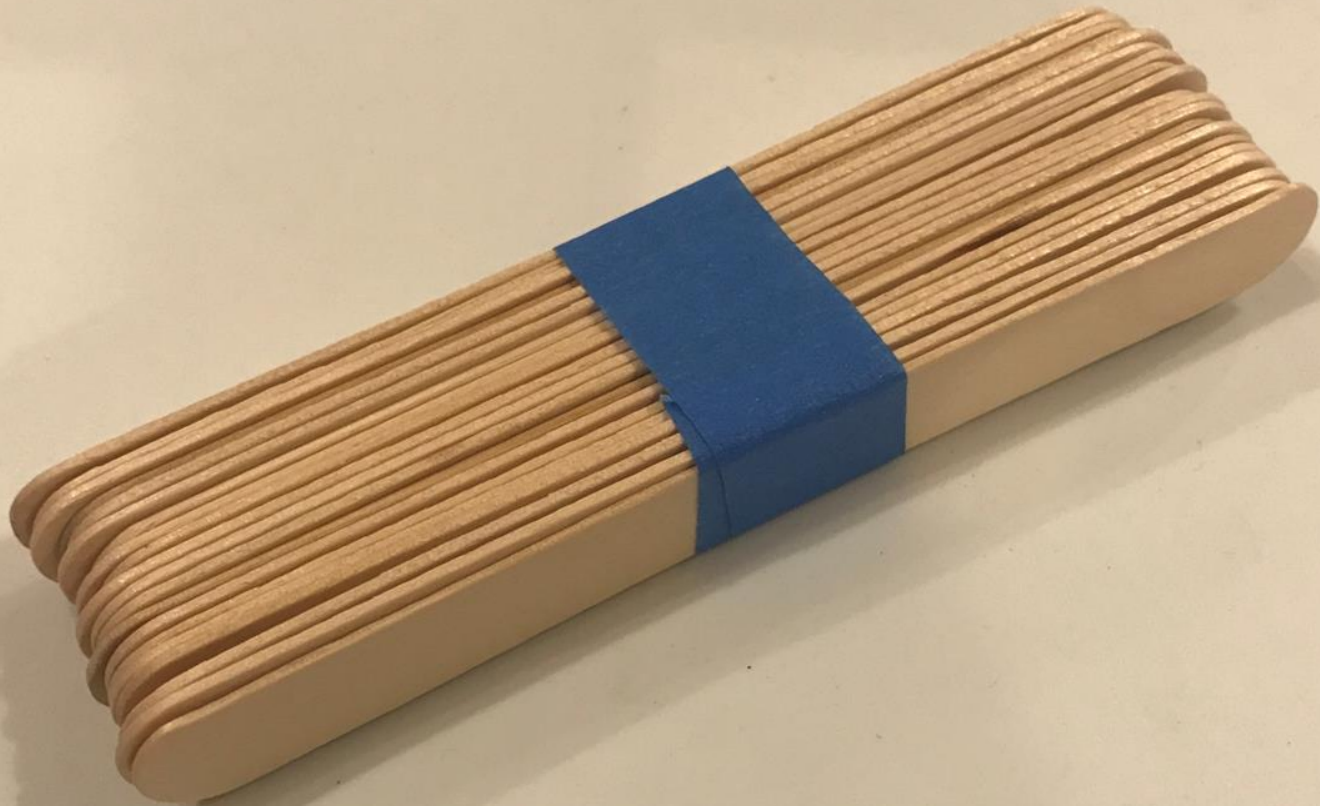
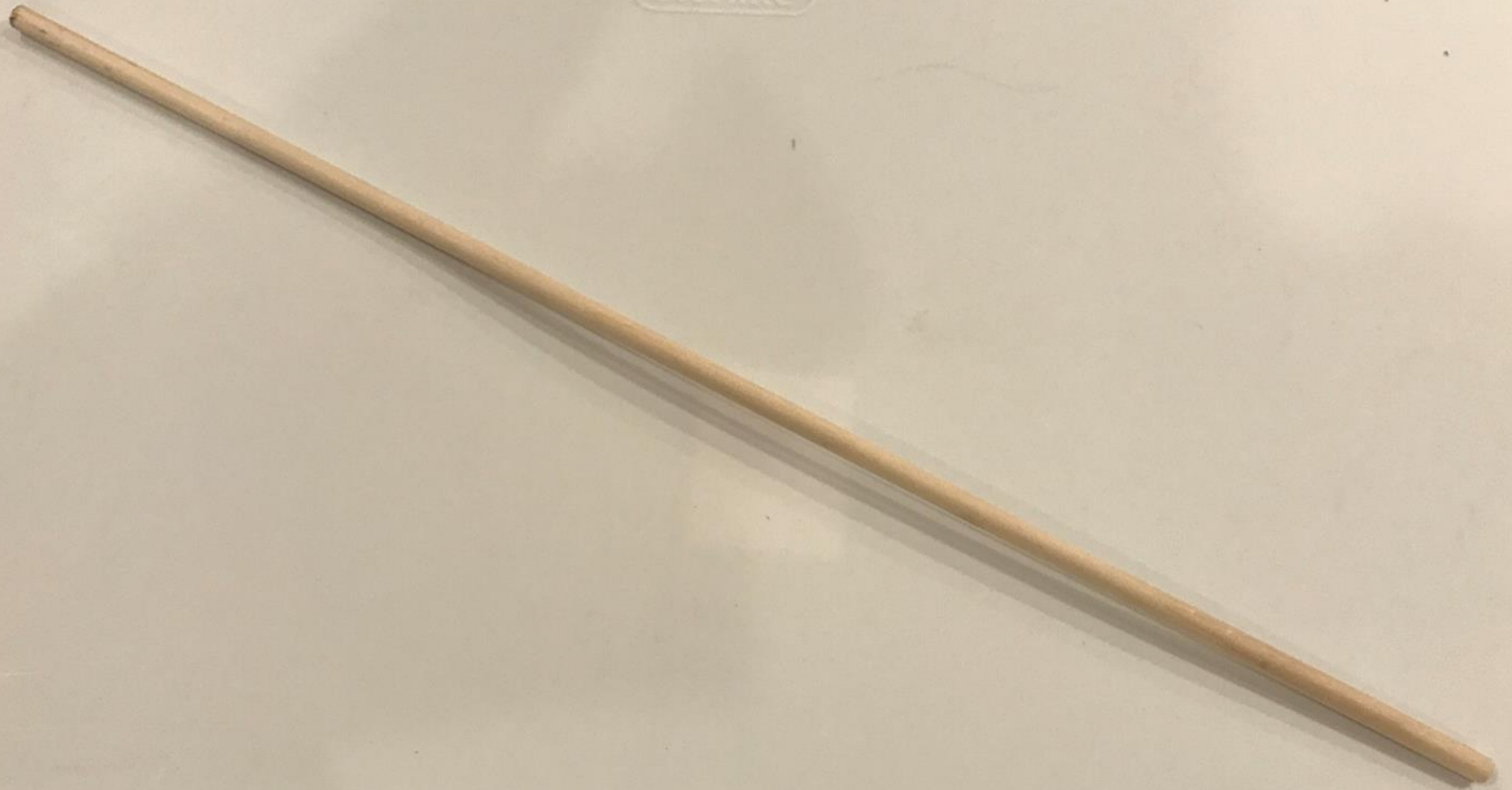43. Wood screws

44. Rocket cradle (pvs with pads)

45. Epoxy mixing cups (Dixie cups)

46. Epoxy stirring sticks (tongue depr)

47. Dowel (for epoxy application)

48. Blue painters tape

49. Strapping tape, electrical tape

50. Zip ties (assorted)

3M

PRO GRADE PRECISION

220 GRIT GRANO | X-FINE X-FINO

ULTRA FLEXIBLE SINGLE ANGLE SANDING SPONGE

esponja de lija de ángulo sencillo ultra flexible

LASTS 5X LONGER dura 5X más

CHANNELS DUST polvo de los canales

CONT.: 1 SPONGE / ESPONJA
4.87 IN/PULG x 2.87 IN/PULG x 1 IN/PULG
(12.3 cm x 7.28 cm x 2.54 cm)

51. Sanding blocks: medium & fine

52. Tack cloth (for dust removal)

6ft Tape Measure
Cinta metríca de 1.82 m

6ft 1.82 m
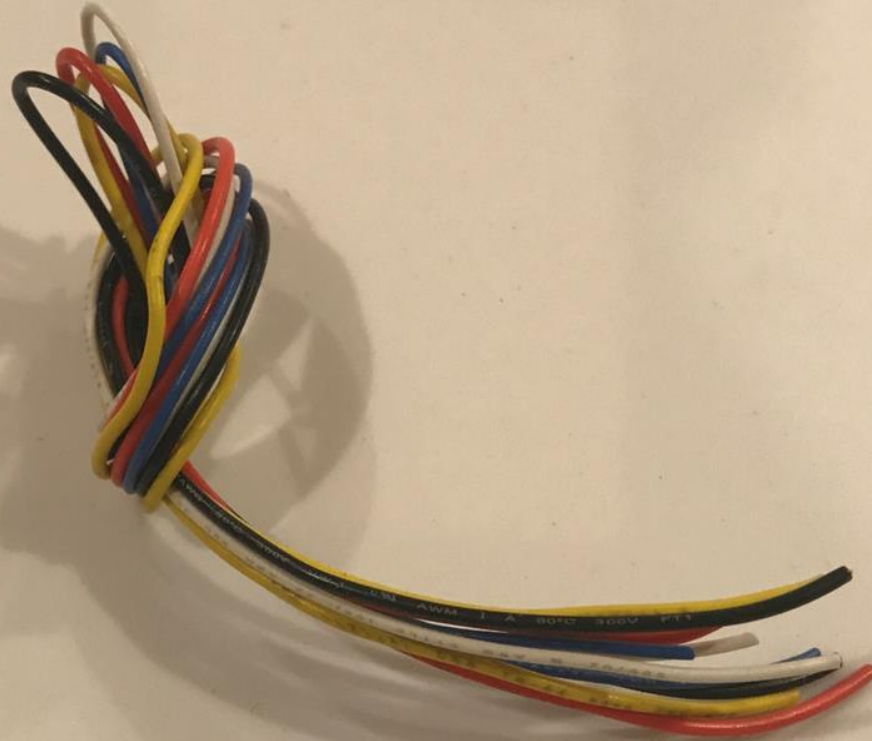Tape Measure

53. Tape measure

54. Jewel screwdriver set

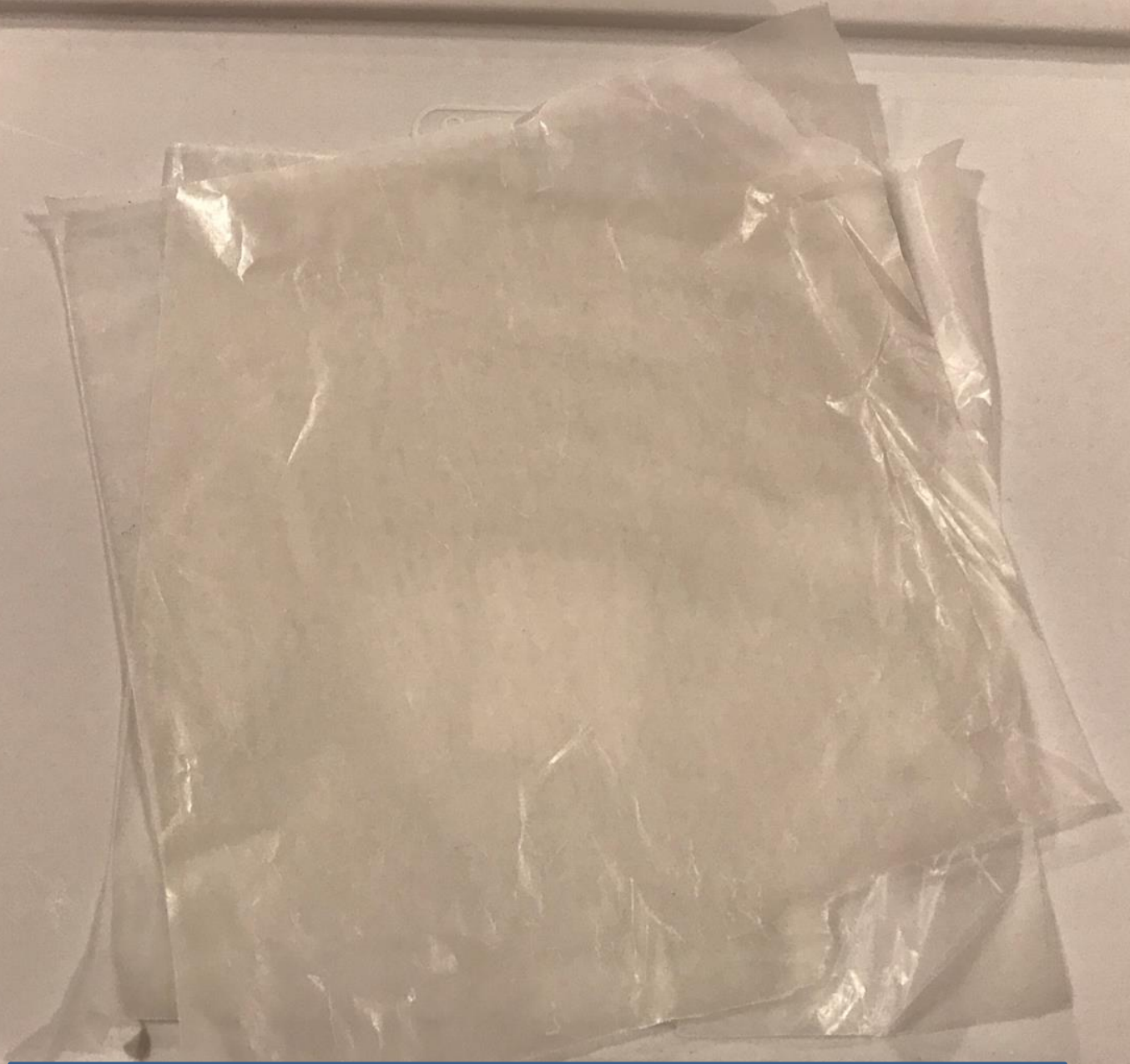55. Utility knife (style may vary)

56. Nitrile gloves (disposable)

57. Duracell 9-volt batteries
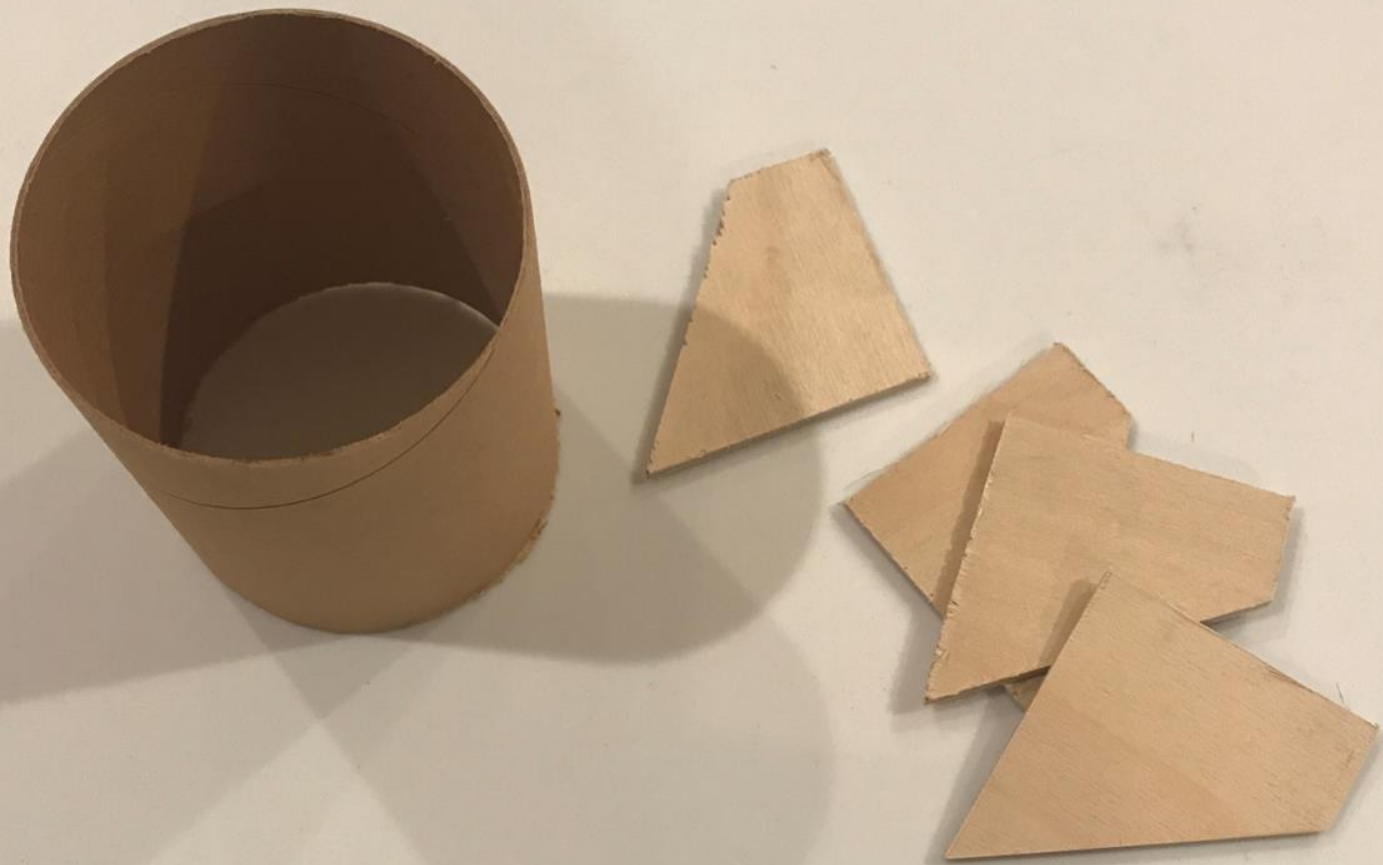
58. Wire for av-bay (22 gauge stranded)

59. Wax paper squares

60. Scissors

61. Sharpie markers

62. Parts for fin-can (epoxy) exercise

Will lend: 63. Mobius video camera

Will lend: 64. Radio beeper

Will provide: 65. Pyrodex (ejection chg)

266H125-12A
CLASSIC™
Pro38® reload kit
p/n P38R-A-2G (FITS P38-2G CASING)

AUG 2 1 2014

Will provide: 66. High-power motor