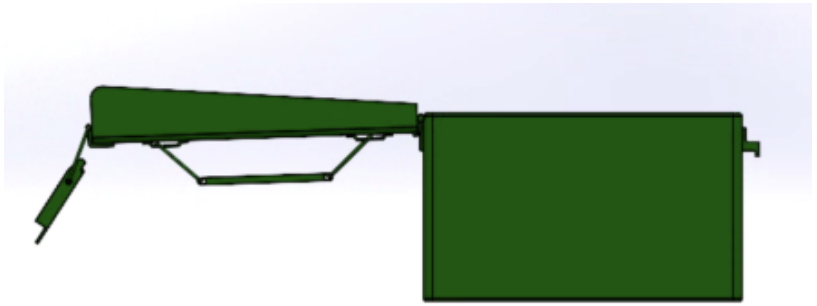
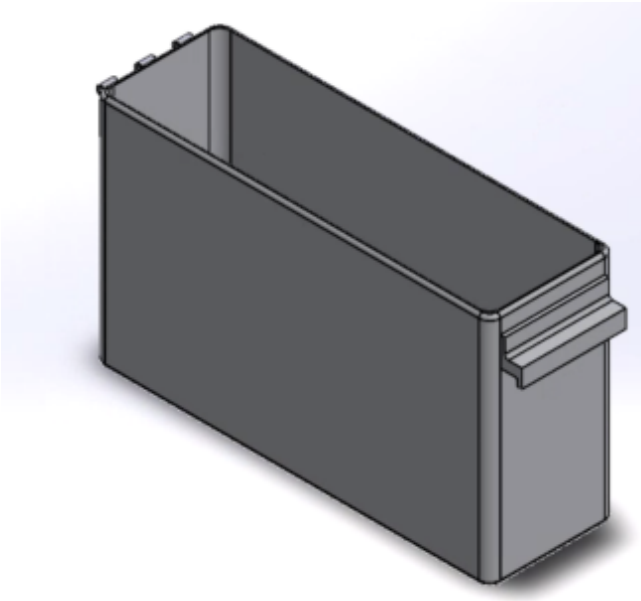
AMMO BOX

By Cameron Rosenberger

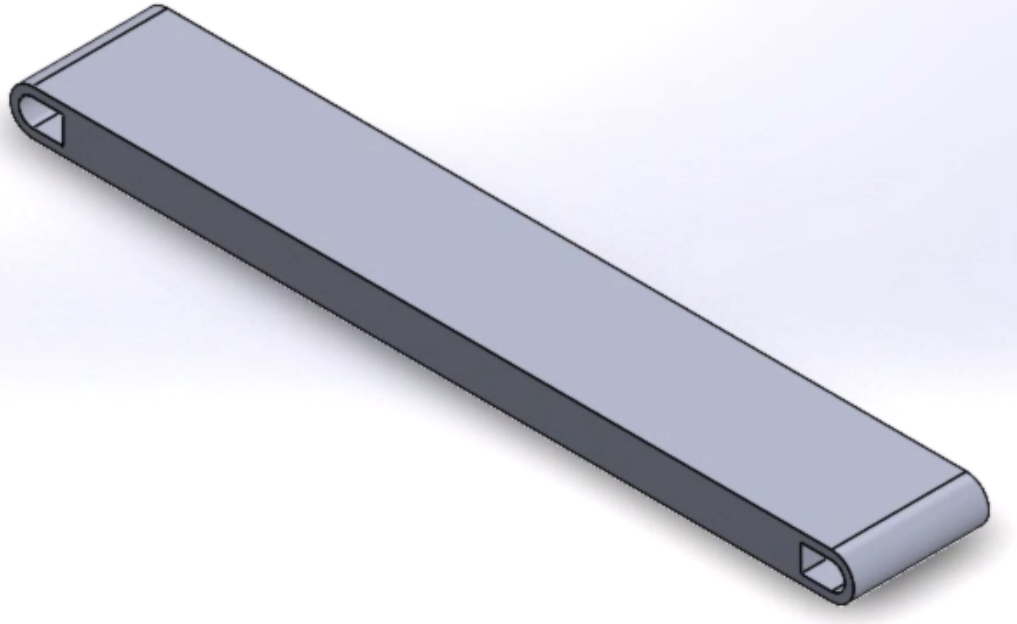


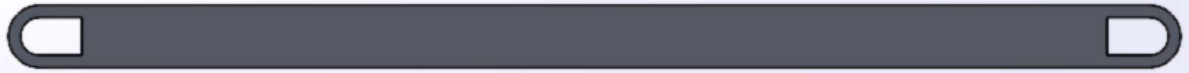
FULL ASSEMBLY

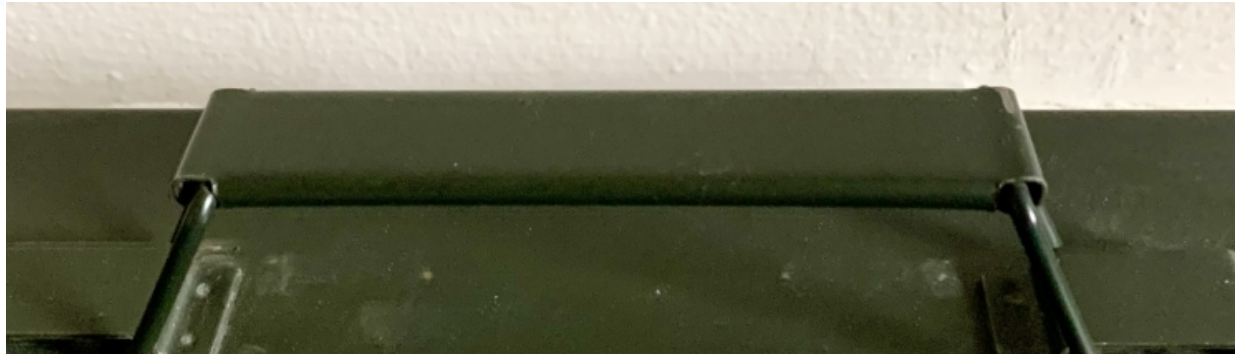
AMMO BOX LID



AMMO BOX BASE

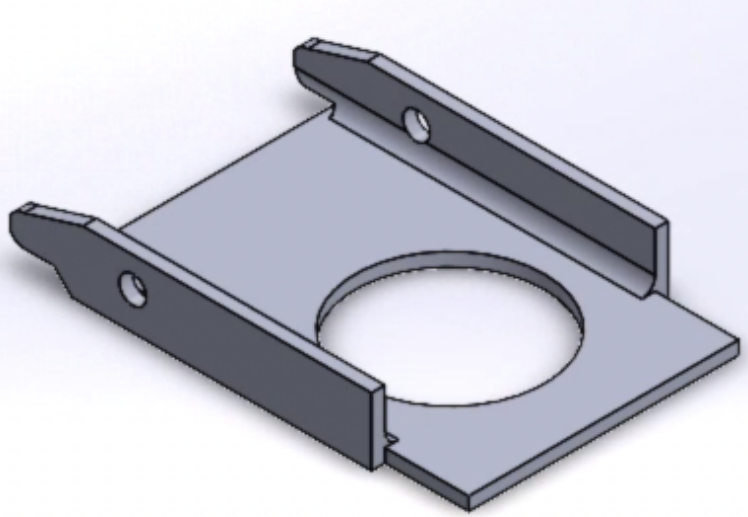


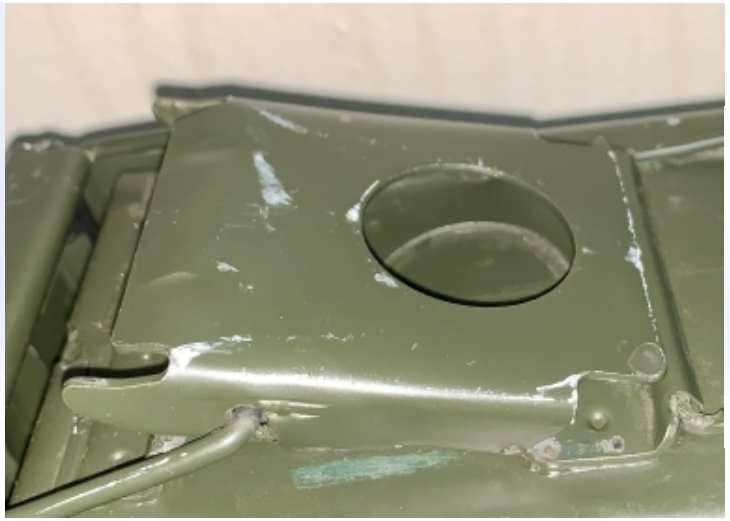


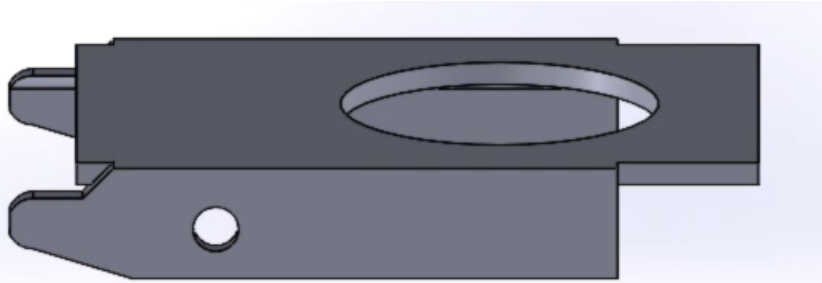


AMMO BOX HANDLE

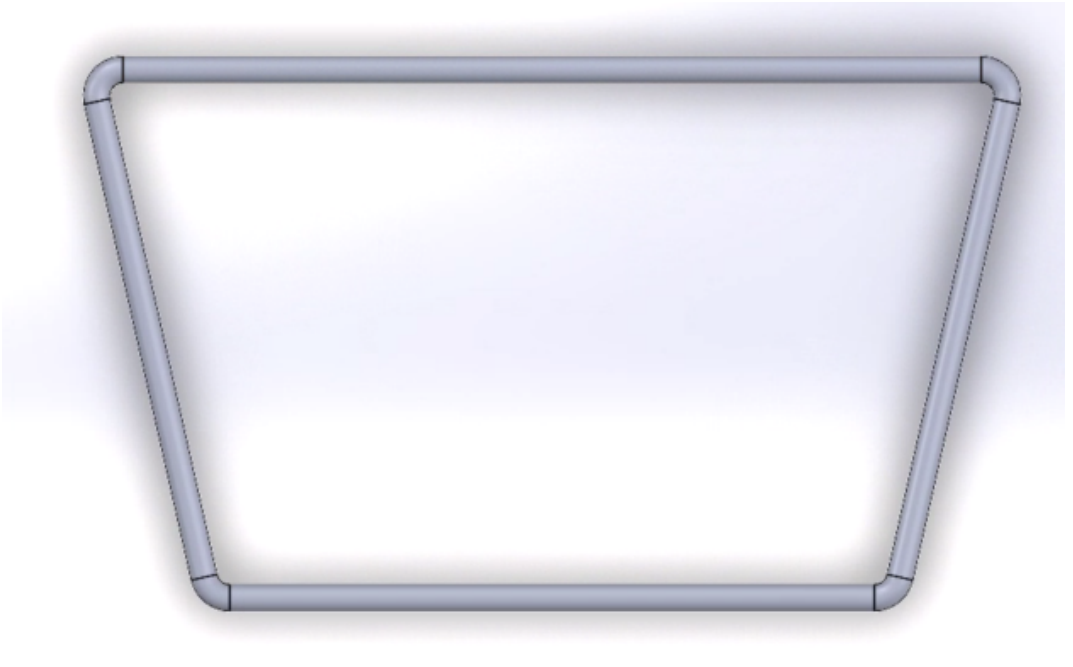
HANDLE LINK



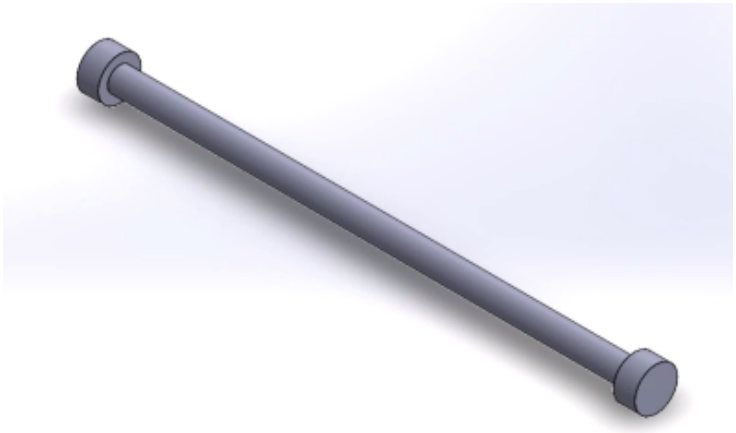


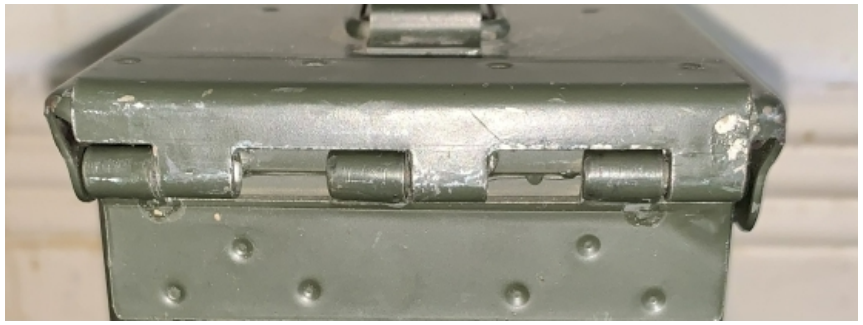


FRONT LATCH



FRONT LATCH LINK





REAR HINGE PIN

MASS PROPERTIES

Mass properties of AMMOGREEN
Configuration: Default
Coordinate system: -- default --

Mass = 3.86 pounds

Volume = 39.61 cubic inches

Surface area = 647.62 square inches

Center of mass: (inches)
X = 6.08
Y = 7.62
Z = 6.35

Principal axes of inertia and principal moments of inertia: (pounds * square
Taken at the center of mass.

Ix = (0.00, -0.06, 1.00)	Px = 30.97
Iy = (0.00, -1.00, -0.06)	Py = 63.86
Iz = (1.00, 0.00, 0.00)	Pz = 79.81

Moments of inertia: (pounds * square inches)
Taken at the center of mass and aligned with the output coordinate system.

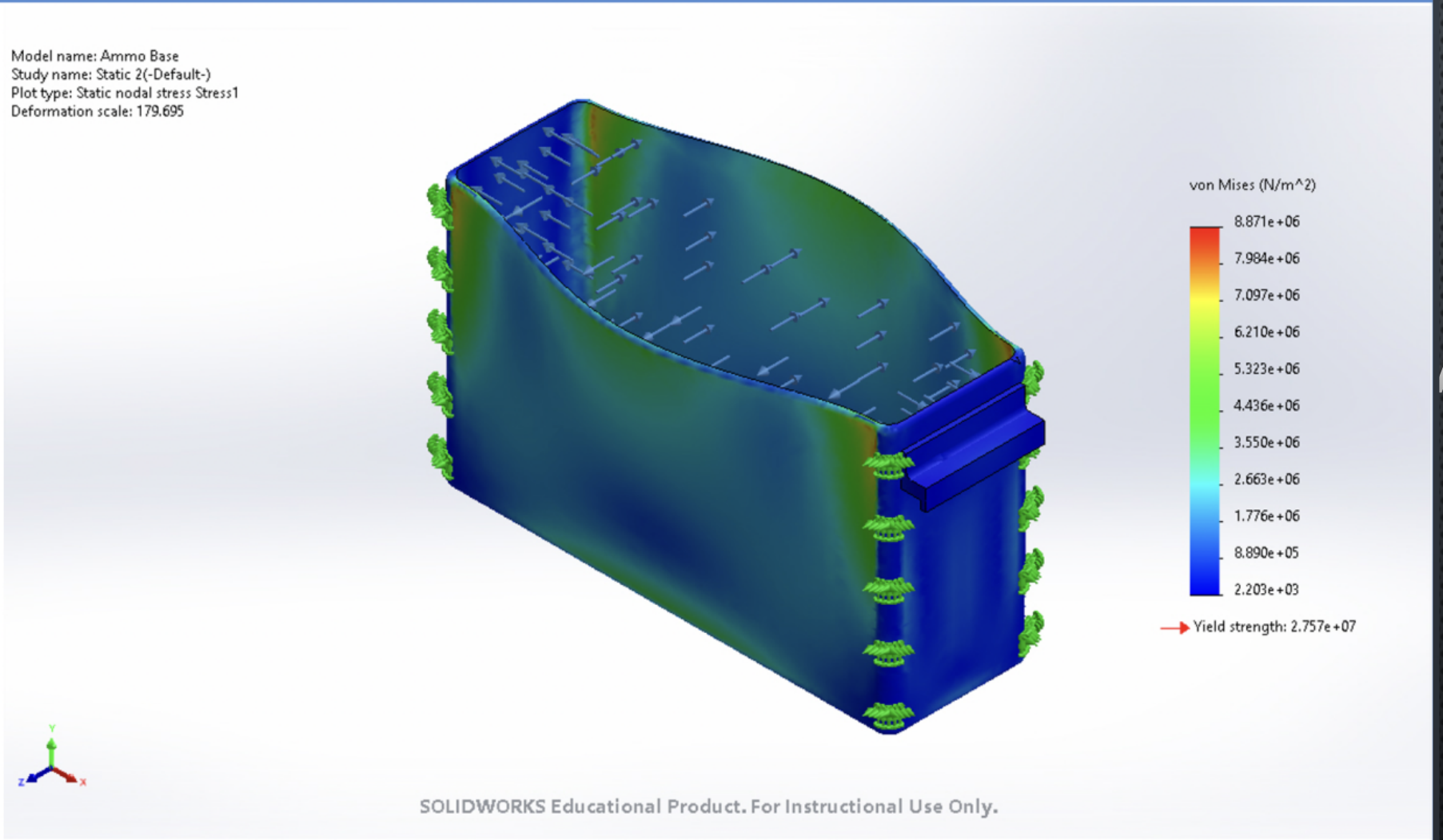
Lxx = 79.81	Lxy = 0.05	Lxz = 0.00
Lyx = 0.05	Lyy = 63.75	Lyz = -1.84
Lzx = 0.00	Lzy = -1.84	Lzz = 31.07

Moments of inertia: (pounds * square inches)
Taken at the output coordinate system.

Ixx = 459.38	Ixy = 178.93	Ixz = 149.07
Iyx = 178.93	Iyy = 362.16	Iyz = 184.83
Izx = 149.07	Izy = 184.83	Izz = 397.93

	Actual Value
Mass	5lbs
Volume	42.5
Surface Area	611

Name	Type	Min	Max
Stress1	VON: von Mises Stress	2.203e+03N/m^2 Node: 38403	8.871e+06N/m^2 Node: 20202



Ammo Base-Static 2-Stress-Stress1

STATIC ANALYSIS