

## Team 10 Lifesaver XBOX Bill of Material (BOM)



The Lifesavers:  
 Ryan Medlin  
 Asa Greenwell  
 Anthony Wonder  
 Connor Lowe  
 Zachary Wisti

Legend:
Base
Adjustment Mechanism
Pieces w/ hand contact

Line no.	Qty.	Part no.	Vendor	Item Name	Description	Price	ACQ/Fabricated?	Fabrication Finish	Additional Notes
1	1	4615T47	McMaster-Carr	Acrylic Sheet	New Acrylic Platform	57.53	Yes	<i>Waterjet</i>	24"x24"
2	1	-	ME Shop	0.75" Aluminum extrusion	Inner posts	-	Yes	<i>Powder Coated</i>	-
3	1	-	ME Shop	1" Aluminum extrusion	Outer posts	-	Yes	<i>Powder Coated</i>	-
4	1	-	ME Shop	0.25" Aluminum stock	Stock for plates under posts	-	Yes	<i>Powder Coated</i>	0.25" thick
5	2	-	ME Shop	#1/4-20 Socket Head Screws	Assembly Mounting Screws	-	Yes	-	thru plate and platform
6	2	-	ME Shop	#1/4-20 Nut	Nuts for mounting screws	-	Yes	-	-
7	2	-	Asa Greenwell	3D printed Knobs for nuts	knobs for securing the nuts	-	Yes	<i>3D Printed</i>	-
8	2	98416A009	McMaster-Carr	Wire-lock Clevis Pin, square loop	Height Adjusting Pin for Posts	4.88	Yes	-	Ø0.25"
9	2	-	Anthony Wonder	Plastic Post Caps	3D printed green post caps	-	Yes	<i>3D Printed</i>	neon green w/ Xbox logo embossed
10	1	-	Jeff Randolph	Aluminum Cylinder Housing	Adjustment mech. housing	-	Yes	<i>Powder Coated</i>	-
11	1	1692K933	McMaster-Carr	Confined Space Compression Spring	Tensioner Spring	2.23	Yes	-	L=0.625" k=21.05 lb/in
12	1	-	ME Shop	Retaining C-Clip	Retains Spring on inner side	-	Yes	<i>Powder Coated</i>	-
13	1	86015K13	McMaster-Carr	1/8" thick Buffed Rubber Sheet	Rubber sheet for tensioner	16.26	Yes	-	-
14	1	74765A59	McMaster-Carr	Loctite 480	Glue for rubber piece	34.17	Yes	-	Loctite for rubber piece
15	1	31305A47	McMaster-Carr	Serrated Gripper Plate	plate w/ teeth to bite rubber	-	Yes	-	unthreaded, fine serrations
16	2	1497K951	McMaster-Carr	Rotary Shaft	Keyed Bar	20.30	Yes	-	Ø5/16" 18" long
17	4	8495A14	McMaster-Carr	Hex-Drive Long Nose Plunger	Thru shaft collar into key to prevent slipping	19.52	Yes	-	#10-32 thread L=0.75"
18	2	-	ME Shop	Shaft Collar	Collar for Shaft	-	Yes	<i>Powder Coated</i>	OD.575" ID.313" L=3" Threaded #10-32
19	2	-	ME Shop	Plates for Buttons/Joysticks	Milled Steel Plates to mount controls	-	Yes	<i>Powder Coated</i>	-

<b>TOTAL</b>	154.89
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