

EJA v2 Bill of Materials

Please read through and observe the notes. There might be some differences in the pricing!

Last updated: Nov. 4, 2021

Useful Links:

[hackaday.io project page](#)
[Design Github repository](#)
[Electronics Github repository](#)

Component	Location	Qty	Part Number	Part Qty	Pack Cost	Pack Qty	TOTAL Cost	Notes	Pack / Qty Needed	# of Packs Needed for 4 Complete Assemblies	Pack / Qty Needed	TOTAL Cost
M6 Hex nut	Lower stage	24										
M6 Hex nut	Base stage	8										
M6 Hex nut	External buoy	2										
TOTAL M6 Hex nut		34	90591A151	1	2.99	100	2.99		2.941176471	2	5.882352941	5.98
M6 Washer	Base stage	20										
M6 Washer	Lower stage	16										
M6 Washer	External buoy	4										
TOTAL M6 Washer		40	98688A116	2	4.29	100	8.58	It seemed like we needed more than 100, go with 200	2.5	2	5	8.58
M6 x 16 mm	Base stage	20	90128A263	1	10.36	100	10.36		5	1	5	10.36
M6 x 20 mm	Base stage	8	90128A264	1	11.97	100	11.97		12.5	1	12.5	11.97
M6 x 25 mm	Lower stage	2	90128A265	1	13.22	100	13.22		50	1	50	13.22
M6 x 35 mm	External buoy	2	90128A267	1	8.59	50	8.59		25	1	25	8.59
M6 x 40 mm	Lower stage	2										
M6 x 50 mm	Lower stage	2										
M6 x 60 mm	Lower stage	2	90128A271	1	6.43	25	6.43					
M6 Wing Nut	Lower stage	8	94300A330	1	6.09	25	6.09		3.125	2	6.25	12.18
M3 Washers	Base stage	20										
M3 Washers	External wiper	10										
M3 Washer	Internal buoy	46										
TOTAL M3 Washers		76	93475A210	2	1.62	100	3.24	It seemed like we needed more than 100, go with 200	1.315789474	4	5.263157895	6.48
M3 Hex Nut	Base stage	10										
M3 Hex Nut	Internal buoy	20										
TOTAL M3 Hex nut		30	90591A250	1	2.67	100	2.67		3.333333333	2	6.666666667	5.34
M3 Heatset	External wiper	10										
M3 Heatset	Internal buoy	8										
TOTAL M3 Heatset		18	94180A331	1	14.71	100	14.71		5.555555556	1	5.555555556	14.71
M3 x 8 mm Thin	Internal buoy	4	90666A104	1	8.4	100	8.4		25	1	25	8.4
M3 x 8 mm	Internal buoy	22	91290A113	0	8.12	100	0		4.545454545	1	4.545454545	8.12
M3 x 8 mm	Internal buoy	22	95263A122	1	8.12	100	8.12					
M3 x 10 mm	Internal buoy	4	95263A134	1	8.14	50	8.14		12.5	1	12.5	8.14
M3 x 14 mm	Base stage	10	91502A106	1	11.95	100	11.95		10	1	10	11.95
M3 x 16 mm	External wiper	10	91290A120	1	10.11	100	10.11		10	1	10	10.11
M3 Hex Nut Thin	Internal buoy	4	90695A033	1	4.03	100	4.03		25	1	25	4.03
M3 Nylon Washer	Internal buoy	12	90695A033	1	3.81	100	3.81	These 4 and the next 4 had supplychain issues - so it's a mixture of both	8.333333333	1	8.333333333	3.81
M3 Nylon Hex Nut	Internal buoy	4	90695A033	0	14.64	100	0	These 4 and the next 4 had supplychain issues - so it's a mixture of both	25	1	25	14.64
M3 x 10 mm Nylon	Internal buoy	2	92492A718	0	10.04	100	0	These 4 and the next 4 had supplychain issues - so it's a mixture of both	50	1	50	10.04

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M3 x 16 mm Nylon	Internal buoy	2	94879A126	0	10.2	100	0	These 4 and the next 4 had supplychain issues - so it's a mixture of both	50	1	50	10.2	
4-40 Nylon Washer	Internal buoy	12	90128A181	0	3.81	100	0	These 4 and the next 4 had supplychain issues - so it's a mixture of both	8.333333333	1	8.333333333	3.81	
4-40 Nylon Hex Nut	Internal buoy	4	94812A200	1	14.64	100	14.64	These 4 and the next 4 had supplychain issues - so it's a mixture of both	25	1	25	14.64	
4-40 x 7/16" (10 mm) Nylon	Internal buoy	2	95868A259	1	10.04	100	10.04	These 4 and the next 4 had supplychain issues - so it's a mixture of both	50	1	50	10.04	
4-40 x 11/16" (16 mm) Nylon	Internal buoy	2	95868A270	1	10.2	100	10.2	These 4 and the next 4 had supplychain issues - so it's a mixture of both	50	1	50	10.2	
M2 Heatset	Internal buoy	8	94180A312	1	15.04	100	15.04		12.5	1	12.5	15.04	
M2 Washer	Internal buoy	8	93475A195	1	1.36	100	1.36		12.5	1	12.5	1.36	
M2 x 6 mm	Internal buoy	4	91292A831	1	6	100	6		25	1	25	6	
M2 x 10 mm	Internal buoy	4	90128A181	1	12.88	100	12.88		25	1	25	12.88	
M6 x 80 mm Threaded rod	Lower stage (Ballast)	2											
M6 x 115 mm Threaded rod	Lower stage (Ballast)	2											
M6 x 160 mm Threaded Rod	Base stage (Spool)	1											
M6 x 170 mm Threaded Rod	Assembly	6											
M6 Threaded Rods		9	98863A542	1	3.31	1	3.31		0.111111111	36	4	119.16	
1/4" dia x 1/4" len Magnet	External wiper	5	5862K116	0	0.97	0	0	Magnets purchased from K&J magnetics	0	25	0	24.25	
1/4" dia x 1/4" len Magnet	Internal buoy	7	5862K116	0	0.97	0	0	Magnets purchased from K&J magnetics	0	35	0	33.95	
3/16" dia x 1/4" len Magnet	Internal buoy	4	5862K115	0	0.88	1	0	Magnets purchased from K&J magnetics	0.25	16	4	14.08	
O-ring	Internal buoy	1	9452K62	1	15.07	100	15.07		100	1	100	15.07	
Foam	External buoy and Base stage	0.25	7503N61	1	14.87	1	14.87		4	1	4	14.87	
U-Bolt	Deck stage	4	3043T614	1	3.74	5	3.74		1.25	4	5	14.96	
1/4"-20 Hex Nut	Deck stage	16	95462A029	1	5.56	100	5.56		6.25	1	6.25	5.56	
							FASTENERS TOTAL	256.12				GRAND TOTAL	502.72
							OTHER TOTAL	69.89					
							GRAND TOTAL	326.01					