

Autotank v1 BOM					
Qty.	Part	Description	Vendor	Vendor P/N	Price
1	Bottom Plate	aluminum sheet metal, 0.050" thick, 24" x 36"	McMaster	8973K477	\$47.91
2	Side Plate	aluminum plate, 1/4" thick, 12' x 36"	McMaster	8975K142	\$69.02
8	Road Wheel Spacer	steel tube, 7/16" OD, 0.322" ID, 72" length	McMaster	89955K128	\$40.31
4	Road Wheel Support Tube				
2	Idler Pulley Spacer				
2	Idler Pulley Inner Spacer				
4	Road Wheel Axle	M8-1.25 threaded rod, 1m length	McMaster	98861A080	\$2.57
14	Bottom Plate Screw	M3-0.5 x 6mm machine screw, button head, stainless, pack of 100	McMaster	92095A179	\$5.06
1	Deck Top	sanded plywood, 15/32" thick, 24" x 48"	Lowes		\$8.59
1	Deck Lid				
2	Deck Side Tube	aluminum square tube, 3/4" width, 1/16" thick, 13' length	McMaster	88875K13	\$26.57
2	Deck End Tube				
2	Deck Inner Side Tube				
1	Deck Support Tube				
12	Deck Corner Bracket	aluminum angle, 1 1/2" width, 1/8" thick, 12" length	McMaster	8982K13	\$5.26
2	Deck Tube Front Cap	3D printed, red PETG			
2	Deck Tube Rear Cap	3D printed, red PETG			
2	LED Headlight				\$3.00
30	Deck Corner Bracket Screw	M3-0.5 x 30mm machine screw, button head, stainless, pack of 50	McMaster	92095A187	\$6.55
16	Deck Side Plate Screw	M3-0.5 x 35mm machine screw, button head, stainless, pack of 25	McMaster	92095A201	\$4.57
46	Deck Nut	M3-0.5 nut, stainless, pack of 50	McMaster	94150A325	\$3.08
10	Deck Top Screw	M5-0.8 x 35mm machine screw, flat head, stainless, pack of 25	McMaster	92125A222	\$7.22
10	Deck Top Nut	M5-0.8 lock nut, stainless, pack of 50	McMaster	94205A240	\$6.09
8	Motor Mounting Plate Nut				
4	Belt Tensioner Plate Nut				
8	Road Wheel	70mm skateboard wheel set, black	Amazon	B017YP417Q	\$39.98
16	Road Wheel Bearing				
8	Road Wheel Inner Spacer				
2	Idler Pulley	3D printed, red PETG			
2	Drive Pulley	3D printed, red PETG			
4	Idler Pulley Bearing	0608 skateboard bearing, sealed	Amazon	B01N96X5R0	\$9.99
2	Motor Shaft Bearing				
2	Track Belt				
2	Drive Pulley Shaft Collar	8mm shaft collar	McMaster	57445K24	\$10.54
1	Drive Pulley End Cap	3D printed, red PETG			
8	Road Wheel Axle Nut	M8-1.25 lock nut, stainless, pack of 25	McMaster	94205A260	\$7.44
10	Idler Pulley Shaft Nut				
12	Drive Pulley Threaded Inserts	heat set inserts, M4 thread, pack of 50	McMaster	94459A150	\$9.84
8	Drive Pulley Threaded Inserts	heat set inserts, M3 thread, pack of 50	McMaster	94459A140	\$9.58
8	Drive Pulley Set Screw	M3-0.5 x 25mm machine screw, socket cap, stainless, pack of 100	McMaster	91292A020	\$7.23
12	Drive Pulley Screw	M4-0.7 x 65mm machine screw, socket cap, stainless, pack of 25	McMaster	91292A317	\$9.13
2	Idler Pulley Shaft	M8-1.25 x 90mm bolt, socket head, stainless	McMaster	92290A464	\$5.10
2	Brushless Motor	Turnigy D5035 sensored brushless motor, 125kv	HobbyKing	9192000357-0	\$195.76
2	Motor Controller	HGLRC VESC v4.12	Amazon	B07GFB55NV	\$171.98
1	Battery	custom 18650 Li-Ion pack, 12S8P, used cells	Ebay	LGDAHA11865	\$120.00
2	Motor Shaft	8mm keyed shaft, 500mm length	McMaster	1439K221	\$30.92
2	Motor Shaft Key	2mm x 2mm key stock, 305mm length	McMaster	92095A218	\$1.93
2	Motor Mounting Plate	aluminum plate, 5/16" thick, 3" width, 24" length	McMaster	8975K89	\$15.63
2	Motor Tensioner Plate				
2	NEMA 23 Adapter Plate				
4	Belt Tensioner Plate				
1	Tensioner Ball Bearing	8mm ball bearing, steel, pack of 25	McMaster	9292K45	\$4.26
8	Motor Mounting Screws	M4-0.7 x 10mm machine screw, flat head, stainless, pack of 100	McMaster	92125A190	\$7.23
4	Motor Tensioner Plate Screws				
8	Motor Plate Mounting Screws	M5-0.8 x 25mm machine screw, flat head, stainless, pack of 25	McMaster	93395A313	\$9.48
2	Belt Tensioner Bolt	M8-1.25 x 70mm bolt, socket head, steel	McMaster	91290A215	\$3.36
8	Motor Mounting Plate Washer	#10 fender washer, stainless, pack of 100	McMaster	90313A200	\$6.40
4	Belt Tensioner Plate Washer				
8	Motor Mounting Plate Spacer	nylon spacer, 8mm OD, 5.3mm ID, 6mm length	McMaster	93657A042	\$10.56
2	Belt Tensioner Nut	M8-1.25 nut, steel, pack of 100	McMaster	90591A161	\$5.73
4	Belt Tensioner Plate Screw	M5-0.8 x 30mm machine screw, button head, stainless, pack of 25	McMaster	92095A218	\$7.64
				Total	\$968.81