

Part Name	Quantity	Description	Link	Have or Buy?	Cost Per	Total	Comments
Control							
PCM	1	Control		Have			
RoboRIO	1	Control		Have			
PDP	1	Control		Have			
RSL	1	Control		Have			
VRM	1	Control		Have			
Circuit Breaker	1	Control		Have			
Radio	1	Control		Have			
Drive Train							
Any Motor Controller	4	Drive Train		No Idea			
CIM	4	Drive Train		Have			
500EX Hex Hub	2	Drive Train		Have			
42 Tooth HTD Pulley	12	Drive Train		Have			
42 Tooth HTD Pulley Extension	6	Drive Train	Andymark	Buy	4	24	
8" Pneumatic Wheel	6	Drive Train		Have			
14 Tooth 20DP 8 mm Round with 2 mm Key Steel Gear	2	Drive Train	Andymark	Buy	11	22	
50 Tooth 20DP 0.375 in. Hex Bore Steel Gear	2	Drive Train	Andymark	Buy	18	36	
21 Tooth 20DP 0.375 in. Hex Bore Steel Gear	2	Drive Train	Andymark	Buy	13	26	
43 Tooth 20DP 0.5 in. Hex Bore Steel Gear	2	Drive Train	Andymark	Buy	16	32	
Barrel + Indexer							
neo	1	Indexer		Have			
spark max	1	Indexer		No Idea			
24" long 3" OD 0.125" thickness aluminum tubing	10	Barrel	Metal Supermark	Buy	22.4	224	5% discount on website
1/2" 0.063" Hex Molded Spacers	1	Indexer	Andymark	Buy	0.6	0.6	
1/2 in. Hex ID Shielded Flanged Bearing (FR8ZZ-HexHD)	2	Indexer	Andymark	Buy	9	18	
90 Degree Gusset	4	Indexer Frame	Andymark	Buy	3	12	
6' 2x1" 0.125 wall thickness Box Tube Extrusion	1	Indexer Frame	Andymark	Buy	25	25	
Clamping Shaft Collar - 1/2" Hex ID	2	Indexer	Vex Pro	No Idea		0	
12:1 SD CIM Sport Gearbox	1	Indexer	Andymark	Buy	78	78	
3/16 in. ID 1/2 in. OD Shielded Bearing (R3ZZ)	1	Indexer	AndyMark	Buy	3	3	
Articulation							
NEO	1	Articulation		Have			
Spark MAX	1	Articulation		Have			
1/2 in. Hex ID Shielded Flanged Bearing (FR8ZZ-HexHD)	2	Articulation	Andymark	Buy	9	18	
Frame/Structure							0
8020 2085 Hinge	1	Scuba Mount	80-20	Buy			
							one 102" piece=30, 30, 17.5, 17.5, 6
							one 102" piece=30, 30, 15, 15, 9.02, 2
							one 102" piece=9.02, 6, 2

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Pneumatic System							
Catalina S80 SCUBA Tank	1	Reservoir	Catalina	Have			
Harrison Scuba Tank Fill Yoke	1	Reservoir	Amazon	Buy	48	48	
1/4" NPT 3000 PSI Air Hose	1	Reservoir	Amazon	Buy	13	13	Alternative with different lengths (link)
CGA 580 Female to 1/4" NPT Male Adapter	1	Reservoir	Home Electrical	Buy	10	10	
BETOOLL Nitrogen Regulator with 0-400 PSI Delivery Pressure	1	Reservoir	Amazon	Buy	45	45	
1/4" 12V Solenoid	1	Reservoir	ElectricSolenoids	Buy	26	26	
FRC 1/4" NPT Fittings	2	Accumulator		Have			
FRC 1/4" Tubing	1	Accumulator		Have			
2 Gallon Tank	1	Accumulator	Amazon	Buy	65	65	
1/2" NPT male to 3/4" NPT female adapter	1	Accuulator	Amazon	Buy	12	12	
3' 3/4" NPT Hosing	1	Accumulator	Amazon	Buy	38	38	
3/4" 12V Solenoid	1	Accumulator	electricsolenoidv	Buy	47	47	
Misc/Decor							
Anker Soundcore 2	1	Speaker	Amazon	Buy	40	40	
BLINKIN LED DRIVER	1	Lighting		Have			
ARGB Lights 16.4'	1	Lighting	Amazon	Buy	20	20	
					Total	882.6	