

Tools

Item	Quantity	Price	Link	Desc
Center Drill Bit	1	13.99	Amazon.com	Used for counter sinking the Lazy Susan
Small Level	1	6.99	Amazon.com	Used for getting the correct amount of ballast in the S2S and front/rear balancers
Metal File	1	4.7	Amazon.com	Used to file down the edges of certain 3D printed parts.
Total		20.98		3

Hardware

Item	Quantity	Price	Link	Desc
M3 Allen Bolt and Nut Kit	1	10.99	Amazon.com	A majority of screws used in this build are M3 so I recommend this kit
M4 Allen Long Bolts	1	10.99	Amazon.com	The remaining majority of screws are M4. Note in the manual I used 8-32 because that's what I already had on hand from other projects, but I recommend the M4.
M4 Lock Nuts	1	7.99	Amazon.com	Used with the M4 Allen bolts
M4 Washers	1	6.29	Amazon.com	Used with the M4 Allen bolts
M3 Insert	1	5.99	Amazon.com	One is used under the flywheel for the S2S Balancer; you can use a normal nut instead to save a few bucks but these are a bit nicer.
M4 Flat Screws	1	9.99	Amazon.com	Used underneath the Susan to allow clearance for the flywheel
M3 Flat Screws	1	12.99	Amazon.com	The screw that goes under the S2S motor from the flywheel. I used a 6-32 but M3 would be better.
Total		65.23		7

Misc

Item	Quantity	Price	Link	Desc
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Blue Locktite	1	5.99	Amazon.com	Use this on all threads facing vertically, ie the ones holding the battery and ones holding the Susan to the A-frames
14" Zip Ties	1	7.52	Amazon.com	I just bought some at my local Home Depot. Also 12" would probably be okay.
Total		13.51		2

Electrical

Item	Quantity	Price	Link	Desc
62/36/2 Silver Solder	1	24.49	Amazon.com	The best solder to use, hands down.
Flux Paste	1	7.95	Amazon.com	Really helps with soldering the nickel strips to the battery
16 awg (gauge) PTFE wire	1	17.99	Amazon.com	Note: search "16 awg PTFE" on ebay as this link will probably change frequently. This is a kit of 6 colors 5 feet each. You could get by with 4 wires @ 5 feet each.
Heat shrink	1	9.49	Amazon.com	I highly recommend a kit with lots of sizes as this comes in handy for lots of projects.
Total		59.92		4

Power Switch Holder - CHOOSE ONE (or omit)

Simple

Item	Quantity	Price	Link	Desc
Rocker Power Switch	1	7.99	Amazon.com	Main power switch. I actually used an illuminated one from Ace hardware that I had in my parts bin but this seems to be the same size. If you want an illuminated one, there's a good option here: https://www.amazon.com/gp/product/B081CTDM9X/ref=ask_ql_qh_dp_hza

Switchcraft 2.1mm Charge Port	1	7.9	Amazon.com	Accepts the male 2.1mm barrell jack for charging (portable jump starter already uses it on their charger).
22 or 24 AWG PTFE Wire	1	14.95	Ebay.com	This link will probably get old. Search 24 AWG PTFE on eBay. I like the seller NavShips.
Total		30.84		3

Voltage

Item	Quantity	Price	Link	Desc
Rocker Power Switch	1	7.99	Amazon.com	Main power switch. I actually used an illuminated one from Ace hardware that I had in my parts bin but this seems to be the same size. If you want an illuminated one, there's a good option here: https://www.amazon.com/gp/product/B081CTDM9X/ref=ask_ql_qh_dp_hza
Switchcraft 2.1mm Charge Port	1	7.9	Amazon.com	Accepts the male 2.1mm barrell jack for charging (portable jump starter already uses it on their charger).
22 or 24 AWG PTFE Wire	1	14.95	Ebay.com	This link will probably get old. Search 24 AWG PTFE on eBay. I like the seller NavShips.
12mm Momentary AV switch	1	7.98	Amazon.com	AV (Anti-vandal). I actually used an illuminated one (had it from another project) but putting a non-illuminated one here for simplicity.
M3 tap	1	7.69	Amazon.com	Used to thread the 3D Voltage Adapter part. You can use sheet metal screws instead.
Bayite 0-30v Mini Voltmeter	1	12.98	Amazon.com	Very important to get this exact one; if not you'd need to make a new adapter.
Total		59.49		6

Battery - CHOOSE ONE

21700 Pack

Item	Quantity	Price	Link	Desc
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21700 4000mAh Samsung Battery	6	7.5	llumn.com	Rockstar battery that performs even at a 20amp continuous discharge. Performs better (from research) than the 5000mAh version
40amp BMS	1	9.99	Amazon.com	Needed to manage the 3S2P battery pack that is constructed from the 6 21700 cells
Nickel Strip	1	12.99	Amazon.com	For soldering the battery pack. Note: you can get the 50mm and save some money but you have to piece two together, so the 100mm is much easier to work with.
Total		67.98		3

Portable Jump Starter

Item	Quantity	Price	Link	Desc
DB Power 800 Amp 18000mAh	1	69.99	Amazon.com	This replaces the Suoaki that is no longer avialble. I'm confident this will work but haven't tested it.
EC5 Connector	1	9.99	Amazon.com	Wire this to your drive's main power and hook to the portable jump starter
2.1mm Male Barrell Jack	1	5.99	Amazon.com	I actually used one that had no leads, but this is probably easier for most
1/16" Foam Sheet for packing	1	12.99	Amazon.com	I have this stuff left over from shipping; the amount you need is very small.
Total		92.97		4

Portable Jump TOTAL 252.61

21700 Pack TOTAL 227.62

Simple Power Switch 30.84

Power Switch Voltmeter 59.49

NOTE: Please check parts carefully as you might have a lot of the hardware already from Joe's build