

UT RAS Demobots - Robotic Couch BOM							
Subsection	Part	QTY	Price/QTY	Total Price	Price+20% S&H	Vendor	Link
drive	Motors and Wheels (estimated cost)	4	\$150.00	\$600.00	\$720.00	eBay	eBay
drive	strut channel, black slotted, 8ft	7	\$39.74	\$278.18	\$333.82	McMaster-Carr	<a href="https://www.mcmaster.com/3310t766">https://www.mcmaster.com/3310t766</a>
drive	strut channel low profile slotted, 1.5ft	6	\$6.72	\$40.32	\$48.38	McMaster-Carr	<a href="https://www.mcmaster.com/3310t791">https://www.mcmaster.com/3310t791</a>
drive	strut bracket flat corner, black	2	\$15.25	\$30.50	\$36.60	McMaster-Carr	<a href="https://www.mcmaster.com/33125t79">https://www.mcmaster.com/33125t79</a>
drive	strut bracket ell, black	11	\$3.73	\$41.03	\$49.24	McMaster-Carr	<a href="https://www.mcmaster.com/33125t14">https://www.mcmaster.com/33125t14</a>
drive	strut bracket ell large, black	2	\$6.22	\$12.44	\$14.93	McMaster-Carr	<a href="https://www.mcmaster.com/33125t15">https://www.mcmaster.com/33125t15</a>
drive	strut bracket ell medium	4	\$1.98	\$7.92	\$9.50	McMaster-Carr	<a href="https://www.mcmaster.com/33125t407">https://www.mcmaster.com/33125t407</a>
drive	strut bracket flat ell, black	28	\$3.59	\$100.52	\$120.62	McMaster-Carr	<a href="https://www.mcmaster.com/33125t274">https://www.mcmaster.com/33125t274</a>
drive	strut bracket flat tee, black	4	\$5.86	\$23.44	\$28.13	McMaster-Carr	<a href="https://www.mcmaster.com/33125t278">https://www.mcmaster.com/33125t278</a>
drive	strut bracket flat A, black	2	\$14.57	\$29.14	\$34.97	McMaster-Carr	<a href="https://www.mcmaster.com/33125t14">https://www.mcmaster.com/33125t14</a>
drive	strut bracket flat straight, black	16	\$4.30	\$68.80	\$82.56	McMaster-Carr	<a href="https://www.mcmaster.com/33125t49">https://www.mcmaster.com/33125t49</a>
drive	strut bracket u, black	6	\$6.52	\$39.12	\$46.94	McMaster-Carr	<a href="https://www.mcmaster.com/33125t472">https://www.mcmaster.com/33125t472</a>
drive	3/8"-16x1" screw, black, 25-pack	9	\$11.22	\$100.98	\$121.18	McMaster-Carr	<a href="https://www.mcmaster.com/32316a624">https://www.mcmaster.com/32316a624</a>
drive	3/8"-16x1.5" screw, black, 25-pack	1	\$12.20	\$12.20	\$14.64	McMaster-Carr	<a href="https://www.mcmaster.com/32316a628">https://www.mcmaster.com/32316a628</a>
drive	3/8"-16 washer, 50-pack	4	\$7.68	\$30.72	\$36.86	McMaster-Carr	<a href="https://www.mcmaster.com/327416a127">https://www.mcmaster.com/327416a127</a>
drive	3/8"-16 strut channel nut, 5-pack	48	\$6.04	\$289.92	\$347.90	McMaster-Carr	<a href="https://www.mcmaster.com/3259t32">https://www.mcmaster.com/3259t32</a>
drive	strut hinge	8	\$15.80	\$126.40	\$151.68	McMaster-Carr	<a href="https://www.mcmaster.com/3505t12">https://www.mcmaster.com/3505t12</a>
drive	rubber cushioned U-bolt	4	\$5.06	\$20.24	\$24.29	McMaster-Carr	<a href="https://www.mcmaster.com/30555t31">https://www.mcmaster.com/30555t31</a>
drive	1" dia 3 ft steel tube	1	\$11.69	\$11.69	\$14.03	McMaster-Carr	<a href="https://www.mcmaster.com/7767t371">https://www.mcmaster.com/7767t371</a>
drive	rubber tube handle, 2-pack	1	\$10.29	\$10.29	\$12.35	McMaster-Carr	<a href="https://www.mcmaster.com/5271t113">https://www.mcmaster.com/5271t113</a>
drive	strut channel rubber cap, black	2	\$1.50	\$3.00	\$3.60	McMaster-Carr	<a href="https://www.mcmaster.com/3312t51">https://www.mcmaster.com/3312t51</a>
drive	3/4"-16 hex nut, 20-pack	1	\$13.14	\$13.14	\$15.77	McMaster-Carr	<a href="https://www.mcmaster.com/34895a491">https://www.mcmaster.com/34895a491</a>
drive	3/4"-16 threaded rod, 6ft	1	\$42.67	\$42.67	\$51.20	McMaster-Carr	<a href="https://www.mcmaster.com/30322a202">https://www.mcmaster.com/30322a202</a>
drive	caster wheel	4	\$29.62	\$118.48	\$142.18	McMaster-Carr	<a href="https://www.mcmaster.com/19505t15">https://www.mcmaster.com/19505t15</a>
drive	3/8"-16 threaded rod, 1ft	1	\$5.56	\$5.56	\$6.67	McMaster-Carr	<a href="https://www.mcmaster.com/30322a122">https://www.mcmaster.com/30322a122</a>
drive	aluminum plate, 1/4"x1"x4'	1	\$101.75	\$101.75	\$122.10	McMaster-Carr	<a href="https://www.mcmaster.com/3246t425">https://www.mcmaster.com/3246t425</a>
drive	1/4"-28x1.5in flat head screw, 25-pack	1	\$6.11	\$6.11	\$7.33	McMaster-Carr	<a href="https://www.mcmaster.com/31253a313">https://www.mcmaster.com/31253a313</a>
electronics	4ga wire, black, 10ft	1	\$24.40	\$24.40	\$29.28	McMaster-Carr	<a href="https://www.mcmaster.com/30548t92">https://www.mcmaster.com/30548t92</a>
electronics	10ga wire, black, 8ft	3	\$5.52	\$16.56	\$19.87	McMaster-Carr	<a href="https://www.mcmaster.com/3659t18">https://www.mcmaster.com/3659t18</a>
electronics	sabertooth 2x60 dual motor driver	2	\$184.99	\$369.98	\$443.98	Amazon	<a href="https://www.amazon.com/Sabertooth-2x60-Dual-Motor-Driver/dp/B00B3Z347W">https://www.amazon.com/Sabertooth-2x60-Dual-Motor-Driver/dp/B00B3Z347W</a>
electronics	2-pack 12V 55AH AGM battery	1	\$248.76	\$248.76	\$298.51	Amazon	<a href="https://www.amazon.com/Universal-UB12550GRP22NF-UB12550-Group-Battery/dp/B00HSHW8FYQ">https://www.amazon.com/Universal-UB12550GRP22NF-UB12550-Group-Battery/dp/B00HSHW8FYQ</a>
electronics	24V Lead Acid battery charger	1	\$29.99	\$29.99	\$35.99	Amazon	<a href="https://www.amazon.com/gp/product/B07ZY22B06">https://www.amazon.com/gp/product/B07ZY22B06</a>
electronics	300A power switch	1	\$24.13	\$24.13	\$28.96	Amazon	<a href="https://www.amazon.com/Blue-Sea-Systems-Battery-Switch/dp/B00444KF22">https://www.amazon.com/Blue-Sea-Systems-Battery-Switch/dp/B00444KF22</a>
electronics	ANL Fuse block	1	\$20.06	\$20.06	\$24.07	Amazon	<a href="https://www.amazon.com/gp/product/B000K2K7TW">https://www.amazon.com/gp/product/B000K2K7TW</a>
electronics	2-pack 100A ANL fuse	1	\$5.71	\$5.71	\$6.85	Amazon	<a href="https://www.amazon.com/gp/product/B005EUTA3E">https://www.amazon.com/gp/product/B005EUTA3E</a>
electronics	2-pack emergency stop	1	\$9.88	\$9.88	\$11.86	Amazon	<a href="https://www.amazon.com/UMAF-Mushroom-Emergency-Button-Switch/dp/B07BCY7HGN">https://www.amazon.com/UMAF-Mushroom-Emergency-Button-Switch/dp/B07BCY7HGN</a>
electronics	Logitech Gamepad F310	1	\$14.99	\$14.99	\$17.99	Amazon	<a href="https://www.amazon.com/Logitech-540-2000110-Gamepad-F310/dp/B003VAHYQY/ref=sr_1_4?ie=UTF8&amp;qid=1550446953&amp;sr=8-4&amp;keywords=logitech+gamepad">https://www.amazon.com/Logitech-540-2000110-Gamepad-F310/dp/B003VAHYQY/ref=sr_1_4?ie=UTF8&amp;qid=1550446953&amp;sr=8-4&amp;keywords=logitech+gamepad</a>
electronics	Micro-USB to USB Adapter	1	\$5.99	\$5.99	\$7.19	Amazon	<a href="https://www.amazon.com/Rankie-Female-Adapter-Converter-3-Pack/dp/B00Y0X4JU6/ref=sr_1_3?bvadid=78340256099032&amp;hvcmnt=be&amp;hvdev=c&amp;hvcmnt=s&amp;keywords=micro+usb+to+usb+adapter&amp;qid=1559270786&amp;scgateway&amp;sr=8-3">https://www.amazon.com/Rankie-Female-Adapter-Converter-3-Pack/dp/B00Y0X4JU6/ref=sr_1_3?bvadid=78340256099032&amp;hvcmnt=be&amp;hvdev=c&amp;hvcmnt=s&amp;keywords=micro+usb+to+usb+adapter&amp;qid=1559270786&amp;scgateway&amp;sr=8-3</a>
electronics	Raspberry Pi Zero W	1	\$10.00	\$10.00	\$12.00	Adafruit	<a href="https://www.adafruit.com/product/3400">https://www.adafruit.com/product/3400</a>
			\$2,945.01		\$3,534.01		