



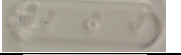
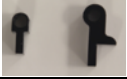












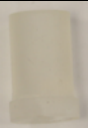















Hapkit Parts List

(version 09.26.14)

Component	Photo	Supplier	Part #	Quantity	Approx. cost per Hapkit
Acrylic laser cut parts: Sector pulley, Frontplate, Base, Supports, Height Adjustment Bar, PCB mounts		McMaster	1/4" acrylic Option 1: use one sheet of clear acrylic for all parts (6"x12" from McMaster 8560K359) Option 2: use one sheet of colored acrylic for all parts (12"x12" from McMaster 8505K91) Option 3: use a combination	1 acrylic sheet (6"x12" at the smallest)	
					\$10.99 (clear sheet)
					\$9.42 (colored sheet)
					
					
					
Screws (for height adjustment) 4-40, 3/4" length		McMaster	91781A113	2	\$0.10 (\$4.75 for pack of 100)
Wing Nuts (for height adjustment)		McMaster	98143A005	2	\$0.24 (\$12.29 for pack of 100)
1/8" adhesive-backed neoprene		McMaster	8463K42	1	\$0.53 (\$9.79 for 6"x6")
3/8" bearing for 1/4" shaft		McMaster	2938T1	1	\$0.49
Drive Wheel		3D printed with Projet	http://hapkit.stanford.edu/build.html#hardware	1	\$1.00
Self-locking shoulder screw		McMaster	91264A242	1	\$1.54
Shaft collar (for 1/4" rod)		McMaster	9414T6	1	\$0.90

4-40 screws for PCB mount (1/2" length)		McMaster	91781A110	2	\$0.09 (\$4.36 for pack of 100)
Nuts for PCB mount		McMaster	90480A005	2	\$0.02 (\$0.81 for pack of 100)
Maxon motor AMax26		Jameco	surplus	1	\$7.95
Metric 18-8 Stainless Steel Socket Head Cap Screw, M2 Thread, 10MM Length, 0.4MM Pitch		McMaster	91292A833	2	\$0.17 (\$7.09 for pack of 100)
M2 flat washer		McMaster	95610A510	2	\$0.05 (\$2.56 for pack of 100)
Magnet holder		3D printed with Projet	http://hapkit.stanford.edu/build.htm#hardware	1	\$1.00
Magnet		McMaster	57295K73	1	\$1.87
1/8" hex key for shoulder bolt		McMaster	7122A18	1	\$0.18
1.5mm hex key for motor		McMaster	7289A11	1	\$0.19
3/32" hex key for shaft collar		McMaster	7122A16	1	\$0.17
KMA210 (MR Sensor soldered onto Hapkit board)		DigiKey	568-8399-1-ND	1	\$3.80
Custom PCB		Seeed	http://www.seeedstudio.com/depot/hapkit-board-p-1622.html	1	\$13.00 (\$35 retail)
Power Supply (12V and 1A)		Pololu	1466	1	\$4.76
Micro USB cable		Monoprice	4867	1	\$0.60

Super glue		Staples	Item: 861702 Model: AD119	2	\$2.25
Light-emitting diode (LED)		Mouser	604-WP7113GD	1	\$0.07
Resistor (390 Ω)		Mouser	291-390-RC	1	\$0.05
Alligator clip		Mouser	835-501789	1	\$0.40 (\$4.00 for pack of 10)
Click-top pen		bookstore	N/A	1	\$1.00