

Revised 12 April 2007

Mirror-o-Matic 14 Parts List

Kit Item	# Req'd	Item	Location	Supplier	Part Number	Catalog Cost
Yes Note 1	2	3/4"X20" polished blower shaft 3/4"x 36" (cut in two)	Turntable, Eccentric	Grainger McMaster	4C907 1346K33	11.75 x 2 31.70
Yes Note 1	1	5/8x 24 polished blower shaft (cut in two- 11-1/2" and 12-1/2")	Power Assembly	McMaster	136K25	15.77
Yes	2	3/4" Set screw shaft collar - zinc plated	Turntable, Eccentric	MSC	87986485	1.29 x 2
Yes	2	5/8" Set screw shaft collar – zinc plated	Powerhead	MSC	87986402	1.20 X 2
Yes	2	3/4" id x 1-3/8" od x 1/8" bronze thrust washer	Eccentric	MSC	35436823	0.95 x 2
Yes	2	5/8" id x 1" od x 1/8" bronze thrust washer	Powerhead	MSC	35436740	0.70 x 2
Yes	2	3/4 " id x 1" od x 3/4" long bronze bushing	Platter & Tool	MSC	35375476	1.11 x 2
Yes	2	Female rod end bearings 3/8" x 24 tpi	Eccentric	MSC	36671238	2.34 x 2
Yes	1	Threaded rod 24 tpi 3/8 dia. x 12" long	Eccentric	MSC	04354155	1.65
Yes	2	Nuts 3/8" x 24 tpi	Eccentric	Hardware		.07 x 2
Yes	4	Bronze bearings 5/8" self aligning	Powerhead	Grainger	2X529	5.04 x 4
Yes	1	Toggle pad	Overarm	MSC	62125315	6.70
Yes	1	Threaded rod 11 tpi 5/8" x 8" long	Overarm	MSC	04352282	3.16
Yes	3	Nuts 5/8" x 11 tpi	Overarm	Hardware		0.15 x 3
Yes	2	Washers 5/8" id x 2" od	Overarm	Hardware		0.15 x 2

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Yes	4	5/16 " x 2" bolts NC	Powerhead	Hardware		0.15 x 4
Yes	5	5/16" x 1-1/4 bolts NC	Overarm	Hardware		0.15 x 5
Yes	19	5/16" x 1-1/2 bolts NC	Overarm Powerhead	Hardware		0.15 x 19
Yes	21	5/16" nuts NC	Thru-out	Hardware		0.07 x 21
Yes	24	5/16 X 1" flat washers	Thru-out	Hardware		0.05 x 24
Yes Note 2	5	5/16" pronged t-nuts	Overarm, Box	Hardware		0.25 x 5
Yes	3	3/8" x 2-1/2" long bolts	Eccentric	Hardware		0.30 x 2
Yes	2	3/8" pronged t-nuts	Eccentric	Hardware		0.40 x 2
Yes	2	3/8" nuts NC	Eccentric	Hardware		0.07 x 2
Yes	6	3/8" x 2"od flat shim washers	Eccentric	Hardware		0.10 x 6
Yes	4	3/16" x 1-1/2" eyebolts	Powerhead	Hardware		0.29 x 4
Yes	4	3/16 nuts for eyebolts	Powerhead	Hardware		0.05 x 4
Yes	4	3/16 washers for eyebolts	Powerhead	Hardware		0.05 x 4
Yes	2	Springs 8-1/2 " long 1" dia. 0.1" wire	Powerhead	Home Depot	Note 8	10.00 x 2
Yes	1	T-handle 5/32" hex driver (tool)	Powerhead	MSC	05043104	1.47
Yes	2	Pulley 1-1/2" x 5/8"	Powerhead	Johnstone Grainger	L 36-744 3x893	X 4.00 x 2
Yes	2	Pulley 10" x 5/8"	Powerhead	Johnstone Grainger	L 36-786 3x935	X x 2 21.95 x 2
Yes	1	Pulley 1-1/2 " x 1/2"	Powerhead	Johnstone Grainger	L 36-743 3x892	X 4.00
Yes	1	Pulley 4" x 5/8"	Powerhead	Johnstone Grainger	L 36-761 3x910	X 6.82
Yes	1	Pulley 2-1/2" x 5/8"	Powerhead	Johnstone Grainger	L 36-752 3x901	X 4.67

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Yes	1	Pulley 12" x ¾"	Turntable	Johnstone Grainger	L 36-791 3x940	x 26.85
Yes	1	Pulley 8" x ¾"	Eccentric	Johnstone Grainger	L 36-779 3x928	x 14.32
Yes	2	Belt ½" x 36"	Powerhead	Johnstone Grainger	P48-360 4L360	X x 2 4.78 x 2
Yes	1	Belt ½" x 48"	Powerhead	Johnstone Grainger	P48-480 4L480	x 6.10
Yes	1	Belt ½" x 52"	Powerhead	Johnstone Grainger	P48-520 4L520	x 6.35
Yes	1	Aluminum or plastic strip 42" x 1-1/2"	Turntable	Hardware		3.00
Yes	1	Plastic tube 3/8" id x 12" long	Eccentric	Hardware		1.00
Yes	2	Hinge-Stanley 10" # 14-52-52 Or US2C	Overarm	Grainger MSC	5J157 32836397	10.24 x 2 9.76 x 2
No	1	Assorted nails or screws	Thru-out	Hardware		1.00
No	1	Polyurethane or other type wood glue	Thru-out	Hardware		6.00
No	1	Plywood ¼" 20"x16"	Box	Hardware		5.00
No	1	Birch Plywood ¾" Cabinet Grade	Thru-out	Hardware		45.00
Option	1	Power cord 18/3 10amp UL listed	Powerhead	Hardware	2W050	2.72
Option Note 5	1	Motor ¼ hp 1725 rpm 48/56 frame or	Powerhead	Johnstone Grainger	S88-532 3K771	44.66 50.00

Notes:

1. The powerhead shafts can be ½ inch shorter than shown on the drawings to save buying a second shaft.
2. Pronged t-nuts are available by the box of 100 from MSC. Hardware stores such as Home Depot sell in bags of 3 to 5 nuts.
3. Pulleys and belts are also available from MSC and McMaster-Carr at similar prices. The pulleys listed are Congress brand die-cast aluminum which have a very flat face on one side for the turntable and eccentric to set on.
4. Belts provided are suggestions. Depending on speeds and ratios required, additional belts may be desired.
5. The motor provided by Johnstone is thermally protected. It will restart when cool. Always unplug when reaching into the powerhead. This is the motor provided in the kit. The Grainger motor is not thermally protected. In a locked rotor situation it will burn out. It is listed as an example only, but may be used if work is always supervised.
6. Prices are subject to change. Check with the supplier's web sites for current prices.
7. The correct hinges are somewhat critical to proper operation. The Stanley 14-52-52 units specified should be used unless you wish to experiment. These hinges are very heavy duty with plastic bushings. Hinges that have 'play' will cause problems.
8. Springs were cut down units from Home Depot. Originally the springs were 12 inches long. Cut as required.