

#803MS

Astro 020 4 Turn Brushless Ducted Fan Motor with mounting sleeve for Wemotek 480 p/n 803MS

The Astro 020 4 turn Brushless Motor is designed for the Wemotek 480 and HET 6904 ducted fan units. The Astro 020 Sensorless Motor is very small. It is only 0.975 inches in diameter, 1.75 inches long and weighs only 2.5 ounces. Using a three cell Lithium Polymer battery pack, the Astro 020 4 Turn motor can handle over 400 watts and spin over 30,000 rpm, Motor comes with mounting sleeve.

Astro 020 4 Turn motor characteristics

Part No.	803MS
Winding	4 turns
Rpm/Volt	3,330 rpm/volt
Winding Resistance	0.049 ohms
No Load current	900 ma
Rotor Magnets	Sm Cobalt
Bearings	Ball Bearings
Motor Diameter	0.98 inches
Motor Length	1.75 inches
Motor Weight	2.5 oz
Motor Shaft Diameter	1/8 inch
Motor Sleeve	1.125 inches dia
Power Cable Length	12 inches
Power Connector	Astro zero Loss
Control needed	35 Amp Sensorless
Voltage range	7 to 15 volts
Maximum Amps	30 amps
Maximum Power	400 watts

Measured Performance of 020 4 Turn Motor with the Wemotek 480 Ducted Fan.

Battery	Amps	Watts	Rpm
2 Lithium poly	11.7 amps	90 watts	21,300 rpm
3 Lithium poly	23.4 amps	260 watts	30,000 rpm
4 Lithium poly	35 amps	500 watts	37,500 rpm

4 A123 Li- ion	29 amps	380 watts	34,000 rpm
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Measured Performance of the 020 4 Turn Motor with the HET 6904 Ducted Fan.

Battery	Amps	Watts	Rpm
2 Lithium Poly	13.1 amps	97 watts	21,250 rpm
3 Lithium Poly	25 amps	275 watts	29,000 rpm
4 Lithium Poly	37 amps	540 watts	35,700 rpm
4 A123 Li Ion	30 amps	400 watts	33,000 rpm

Measured Performance of 020-4 turn motor running on a 3 cell lithium polymer battery.

Prop	Amps	Watts	Rpm
APC 5.5 x 2.8	30 amps	320 watts	27,000 rpm
APC 4.7 x 4	31 amps	350 watts	26,000 rpm
MAS 5.5 x 4	35 amps	400 watts	25,500 rpm

Other parts you may need

Stock No	Name	Price
101N	Super Whattmeter	\$44.95
105	Servo Tester	\$19.95
123	A123 Lithium Ion Charger	\$129.95
110	Deluxe Charger 1-24 cells	\$129.95
521	Astro 3 Pin Connector	\$14.95
525	Astro 2 Pin Connector	\$10.00

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