

# 2-Stroke Glow to Electric Conversion Guide

This conversion guide will help direct the user to the correct size Electric Motor, Speed Controller, Battery and Prop needed to emulate the performance of a 2-Stroke glow engine, when used in a Sport Flying type Model aircraft. This guide uses the recognized standard of 1 Cubic Inch of 2-Stroke glow engine power being equal to 2000 Watts of electric power. While there are many different power system combinations that will work, the ones shown in this guide will use props that are similar in size to their glow counterparts for prop clearance considerations.

<b>.020 Glow Engine Power - 40 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-2203/28 - 2800Kv</a> ESC <a href="#">Cobra 11 Amp Speed Controller</a> Battery <a href="#">BadAss 2-Cell. 7.4 V, 450mah 45C</a> Prop <a href="#">HQ 5x3 Carbon Composition</a>						Motor ESC Battery <b>No BadAss Motors are available at this power level</b> Prop					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
5.59	41	17,123	48.6	243	8.59						
<a href="#">Click Here for the C-2203/28 Prop Data Chart</a>											

<b>.049-.051 Glow Engine Power - 100 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-2204/32 - 1960 Kv</a> ESC <a href="#">Cobra 22 Amp Speed Controller</a> Battery <a href="#">BadAss 3-cell, 11.1 V, 850mah 45C</a> Prop <a href="#">APC 6x4 Speed 400 Series</a>						Motor <a href="#">BadAss BA-2305-1960Kv</a> ESC <a href="#">BadAss Rebel 25 Amp ESC</a> Battery <a href="#">BadAss 3-Cell, 11.1 V, 1000mah, 45C</a> Prop <a href="#">APC 5x4.6 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
11.67	130	15,106	57.2	484	17.07	14.28	159	17,465	76.1	541	19.09
<a href="#">Click Here for the C-2204/32 Prop Data Chart</a>						<a href="#">Click Here for the BA-2305-1960 Prop Data Chart</a>					

<b>.09 -.10 Glow Engine Power - 200 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-2213/12 - 2000Kv</a> ESC <a href="#">Cobra 33 Amp Speed Controller</a> Battery <a href="#">BadAss 3-cell, 11.1 V, 1500mah 45C</a> Prop <a href="#">APC 6x4 Speed 400 Series</a>						Motor <a href="#">BadAss BA-2310-1680Kv</a> ESC <a href="#">BadAss Rebel 35 Amp ESC</a> Battery <a href="#">BadAss 3-cell, 11.1 V, 1500mah 45C</a> Prop <a href="#">APC 7x4 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
18.48	205	18,060	68.4	697	24.59	23.03	256	15,247	57.8	1001	35.31
<a href="#">Click Here for the C-2213/12 Prop Data Chart</a>						<a href="#">Click Here for the BA-2310-1680 Prop Data Chart</a>					

<b>.15 Glow Engine Power - 300 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-2217/12 - 1550 Kv</a> ESC <a href="#">Cobra 33 Amp Speed Controller</a> Battery <a href="#">BadAss 3-Cell, 11.1 V, 2200mah 45C</a> Prop <a href="#">APC 8x6 E-Series</a>						Motor <a href="#">BadAss BA-2315-1480Kv</a> ESC <a href="#">BadAss Rebel 45 Amp ESC</a> Battery <a href="#">BadAss 3-Cell, 11.1 V, 2200mah 45C</a> Prop <a href="#">APC 8x6 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
31.72	352	11,440	65	1167	41.16	34.06	378	12,153	69.1	1211	42.71
<a href="#">Click Here for the C-2217/12 Prop Data Chart</a>						<a href="#">Click Here for the BA-2315-1480 Prop Data Chart</a>					

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<b>.20 Glow Engine Power - 400 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-2814/12 - 1390 Kv</a>						Motor <a href="#">BadAss BA-2814-1300Kv</a>					
ESC <a href="#">Cobra 40 Amp Speed Controller</a>						ESC <a href="#">BadAss Rebel 65 Amp ESC</a>					
Battery <a href="#">BadAss 3-Cell, 11.1 V, 2600mah 45C</a>						Battery <a href="#">BadAss 3-Cell, 11.1 V, 3300mah 45C</a>					
Prop <a href="#">APC 9x6 E-Series</a>						Prop <a href="#">APC 9x6 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
33.09	367	11,528	65.5	1427	50.34	36.01	400	11,958	67.9	1540	54.31
<a href="#">Click Here for the C-2814/12 Prop Data Chart</a>						<a href="#">Click Here for the BA-2814-1300 Prop Data Chart</a>					

<b>.25 Glow Engine Power - 500 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-2820/8 - 1450Kv</a>						Motor <a href="#">BadAss BA-2814-1560Kv</a>					
ESC <a href="#">Cobra 60 Amp Speed Controller</a>						ESC <a href="#">BadAss Rebel 65 Amp ESC</a>					
Battery <a href="#">BadAss 3-Cell, 11.1 V, 4000mah 45C</a>						Battery <a href="#">BadAss 3-Cell, 11.1 V, 4000mah 45C</a>					
Prop <a href="#">APC 9x6 E-Series</a>						Prop <a href="#">APC 9x6 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
48.2	535	12,847	73	1775	62.61	50.98	566	13,083	74.3	1808	63.76
<a href="#">Click Here for the C-2820/8 Prop Data Chart</a>						<a href="#">Click Here for the BA-2814-1560 Prop Data Chart</a>					

<b>.30 Glow Engine Power - 600 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-3515/12, 1100 Kv</a>						Motor <a href="#">BadAss BA-2820-910Kv</a>					
ESC <a href="#">Cobra 60 Amp Speed Controller</a>						ESC <a href="#">BadAss Rebel 65 Amp ESC</a>					
Battery <a href="#">BadAss 4-Cell, 14.8 V, 4000mah 45C</a>						Battery <a href="#">BadAss 4-Cell, 14.8 V, 4000mah 45C</a>					
Prop <a href="#">APC 10x5 E-Series</a>						Prop <a href="#">APC 10x8 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
43.04	637	12,395	58.7	2200	77.6	41.12	609	10,599	80.3	2021	71.3
<a href="#">Click Here for the C-3515/12 Prop Data Chart</a>						<a href="#">Click Here for the BA-2820-910 Prop Data Chart</a>					

<b>.35 Glow Engine Power - 700 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-2826/8, 1130Kv</a>						Motor <a href="#">BadAss BA-2820-1080Kv</a>					
ESC <a href="#">Cobra 60 Amp Speed Controller</a>						ESC <a href="#">BadAss Rebel 65 Amp ESC</a>					
Battery <a href="#">BadAss 4-Cell, 14.8 V, 4000mah 45C</a>						Battery <a href="#">BadAss 4-Cell, 14.8 V, 4000mah 45C</a>					
Prop <a href="#">APC 10x5 E-Series</a>						Prop <a href="#">APC 10x5 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
48.48	718	12,829	60.7	2373	83.7	49.06	726	13,220	62.6	2453	86.5
<a href="#">Click Here for the C-2826/8 Prop Data Chart</a>						<a href="#">Click Here for the BA-2820-1080 Prop Data Chart</a>					

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<b>.40 Glow Engine Power - 800 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-3520/10, 980 Kv</a>						Motor <a href="#">BadAss BA-2826-1030Kv</a>					
ESC <a href="#">Cobra 60 Amp Speed Controller</a>						ESC <a href="#">BadAss Rebel 85 Amp ESC</a>					
Battery <a href="#">BadAss 4-Cell, 14.8 V, 5000mah 45C</a>						Battery <a href="#">BadAss 4-Cell, 14.8 V, 5000mah 45C</a>					
Prop <a href="#">APC 11x7 E-Series</a>						Prop <a href="#">APC 10x7 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
52.4	776	10,420	69.1	2741	96.7	58.36	864	12,413	82.3	2594	91.5
<a href="#">Click Here for the C-3520/10 Prop Data Chart</a>						<a href="#">Click Here for the BA-2826-1030 Prop Data Chart</a>					

<b>.45 Glow Engine Power - 900 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-3520/12, 820Kv</a>						Motor <a href="#">BadAss BA-3520-970Kv</a>					
ESC <a href="#">Cobra 60 Amp Speed Controller</a>						ESC <a href="#">BadAss Rebel 85 Amp ESC</a>					
Battery <a href="#">BadAss 5-Cell, 18.5 V, 4000mah 45C</a>						Battery <a href="#">BadAss 4-Cell, 14.8 V, 5000mah 45C</a>					
Prop <a href="#">APC 11x7 E-Series</a>						Prop <a href="#">APC 10x8 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
50.98	943	11,096	73.6	3119	110.1	62.72	928	11,955	90.6	2507	88.4
<a href="#">Click Here for the C-3520/12 Prop Data Chart</a>						<a href="#">Click Here for the BA-3520-970 Prop Data Chart</a>					

<b>.50 Glow Engine Power - 1000 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-3525/10, 780Kv</a>						Motor <a href="#">BadAss BA-3520-790Kv</a>					
ESC <a href="#">Cobra 80 Amp Speed Controller</a>						ESC <a href="#">BadAss Rebel 85 Amp ESC</a>					
Battery <a href="#">BadAss 5-Cell, 18.5 V, 5000mah 45C</a>						Battery <a href="#">BadAss 5-Cell, 18.5 V, 5000mah 45C</a>					
Prop <a href="#">APC 12x6 E-Series</a>						Prop <a href="#">APC 11x5.5 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
54.61	1010	10,789	61.3	3694	130.3	52.57	973	12,266	63.9	3328	117.4
<a href="#">Click Here for the C-3525/10 Prop Data Chart</a>						<a href="#">Click Here for the BA-3520-790 Prop Data Chart</a>					

<b>.55 Glow Engine Power - 1100 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-4120/14, 710 Kv</a>						Motor <a href="#">BadAss BA-3520-790Kv</a>					
ESC <a href="#">Cobra 80 Amp Speed Controller</a>						ESC <a href="#">BadAss Rebel 85 Amp ESC</a>					
Battery <a href="#">BadAss 5-Cell, 18.5 V, 5000mah 45C</a>						Battery <a href="#">BadAss 5-Cell, 18.5 V, 5000mah 45C</a>					
Prop <a href="#">APC 12x8 E-Series</a>						Prop <a href="#">APC 11x7 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
62.9	1164	10,385	78.7	3316	116.7	62.6	1158	11,867	78.7	3378	119.1
<a href="#">Click Here for the C-4120/14 Prop Data Chart</a>						<a href="#">Click Here for the BA-3520-790 Prop Data Chart</a>					

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<b>.60 Glow Engine Power - 1200 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-4120/16, 610Kv</a>						Motor <a href="#">BadAss BA-3520-650Kv</a>					
ESC <a href="#">Cobra 80 Amp Speed Controller</a>						ESC <a href="#">BadAss Rebel 85 Amp ESC</a>					
Battery <a href="#">BadAss 6-Cell, 22.2 V, 5000mah 45C</a>						Battery <a href="#">BadAss 6-Cell, 22.2 V, 5000mah 45C</a>					
Prop <a href="#">APC 12x8 E-Series</a>						Prop <a href="#">APC 11x7 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
60.37	1340	10,837	82.1	3588	126.6	59.58	1323	12,355	81.9	3742	132
<a href="#">Click Here for the C-4120/16 Prop Data Chart</a>						<a href="#">Click Here for the BA-3520-650 Prop Data Chart</a>					

<b>.75 Glow Engine Power - 1500 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-4130/12, 540 Kv</a>						Motor <a href="#">BadAss BA-3530-570Kv</a>					
ESC <a href="#">Cobra 80 Amp Speed Controller</a>						ESC <a href="#">BadAss Rebel 85 Amp ESC</a>					
Battery <a href="#">BadAss 6-Cell, 22.2 V, 5000mah 45C</a>						Battery <a href="#">BadAss 6-Cell, 22.2 V, 5000mah 45C</a>					
Prop <a href="#">APC 14x7 E-Series</a>						Prop <a href="#">APC 13x8 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
63.86	1418	9,337	61.9	4692	165.5	62.7	1392	10,064	76.2	4338	153
<a href="#">Click Here for the C-4130/12 Prop Data Chart</a>						<a href="#">Click Here for the BA-3530-570 Prop Data Chart</a>					

<b>.90 Glow Engine Power - 1800 Watts</b>											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-4130/14, 450Kv</a>						Motor <a href="#">BadAss BA-3530-700Kv</a>					
ESC <a href="#">Cobra 80 Amp 12S Speed Controller</a>						ESC <a href="#">BadAss Renegade 125 Amp ESC</a>					
Battery <a href="#">2 x BadAss 4-Cell, 14.8 V, 5000mah 45C</a>						Battery <a href="#">BadAss 6-Cell, 22.2 V, 5000mah 45C</a>					
Prop <a href="#">APC 13x8 E-Series</a>						Prop <a href="#">APC 13x5.5 E-Series</a>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
56.18	1663	10,511	79.6	4852	171.2	85.57	1899	12,785	66.6	5761	203.2
<a href="#">Click Here for the C-4130/14 Prop Data Chart</a>						<a href="#">Click Here for the BA-3530-700 Prop Data Chart</a>					

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1.20 Glow Engine Power - 2400 Watts											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-5320/18, 370Kv</a> ESC <a href="#">Cobra 80 Amp 12S Speed Controller</a> Battery <a href="#">2 x BadAss 4-cell, 14.8 V, 5000mah 45C</a> Prop <a href="#">APC 16x7 E-Series</a>						Motor ESC Battery Prop <p style="text-align: center;">Coming Soon!</p>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
61.46	1820	9,007	60.0	6462	228						
<a href="#">Click Here for C-5320/18 Prop Data Chart</a>						<a href="#">Click Here for Complete Prop Data Chart</a>					

1.50 Glow Engine Power - 3000 Watts											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-5330/18, 250Kv</a> ESC <a href="#">Cobra 80 Amp 12S Speed Controller</a> Battery <a href="#">2 x BadAss 5-Cell, 18.5 V, 5000mah 45C</a> Prop <a href="#">APC 18x10 E-Series</a>						Motor ESC Battery Prop <p style="text-align: center;">Coming Soon!</p>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
60.51	2239	7,737	72.7	7737	273						
<a href="#">Click Here for C-5330/18 Prop Data Chart</a>						<a href="#">Click Here for Complete Prop Data Chart</a>					

1.80 Glow Engine Power - 3600 Watts											
<b>Cobra Power System</b>						<b>BadAss Power System</b>					
Motor <a href="#">Cobra C-5340/16, 200Kv</a> ESC <a href="#">Cobra 80 Amp 12S Speed Controller</a> Battery <a href="#">2 x BadAss 6-Cell, 22.2 V, 5000mah 45C</a> Prop <a href="#">APC 18x10 E-Series</a>						Motor ESC Battery Prop <p style="text-align: center;">Coming Soon!</p>					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
57.52	2554	8,007	75.8	8658	305						
<a href="#">Click Here for C-5340/16 Prop Data Chart</a>						<a href="#">Click Here for Complete Prop Data Chart</a>					