

## '05' Size Brushless Motors (Modified)

All motors detailed below, must be (or previously have been) available for purchase at retail outlets throughout the UK.

### List of Approved motors eligible for use at BRCA sanctioned events.

Motor Builder	Type / Range	Distributor	Can Type	Notes	Approv. Date
Dualsky	Track & Field	RCRacingUK	Silver Alu. Ends and centre sleeve. Stator press fitted. Sleeve with 6 slots each end, 4 x 10 mm. 6 Screw holes.	Sensored system. "Y" Wind. Black Al.. End-Bell ass. with Plastic centre has Track & Field logo. 7.1mm shaft reduced to for 4mm bearings both ends. Nickel plated sintered magnet. Alum. fan 21mm dia.. Adjustable timing using clamp ring on End-Plate ass.	16/08/2010
GM-Racing	Brushless PRO 2010 Version	Schumacher	Alu. Ends and centre sleeve. Stator press fitted. Sleeve with 10 'pointed' slots, 4.0 x 9.0 mm. 6 Screw holes. 3 'cut-outs in End-Plate with sensor plug horizontal. 'Y' version Dark Grey anodised, Delta version Black.	Sensored system. "Y" & "Delta" Wind Grey or Black Alum. End-Bell with GM Racing name. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet. Rotors :- 12.0, 12.3, 12.5. Part # and wind etched on Sleeve. Adjustable timing by five holes in End-Plate	10/05/2010
Trinity	Nemesis Project Pro. Modified	X-Factory UK	G/Metal Sleeve & End-Pates. Plain sleeve. Timing plate secured with 2 screws. 3 slots at mounting face. 6 screw holes.	Sensored system. "Y" . G/Metal Al. End-Plate with "Trinity Nemesis" etched. 5.0mm shaft reduced for 1/8 bearings both ends. Black sintered magnet with balance ring. Adjustable timing.	15/03/2010
Epic	EPIC DUO Platinum	X Factory UK	Silver Sleeve & End-Pates. Sleeve with 10 angled slots. Timing plate secured with 3 screws. 3 slots at mounting face. 6 screw holes.	Sensored system. "Y" . Silver Al. End-Plate with "EPIC" logo. 5.0mm shaft reduced for 1/8 bearings both ends. Black sintered magnet with balance ring. Adjustable timing.	21/12/2009
Orion	Vortex Pro Race 2009	Kyosho UK	Dark G/metal Alu. Ends & loose Center Sleeve. Separate Al. End Plate secured with 3 screws. 6 x 5 mm dia holes in term. End. 6 slots at mounting face with face grooves. Six Screw holes on 25 & 25.4 mm pcd.	Sensored system. "Y" & Delta. Dark G/Metal Al. End-Plate with "TOP". Wind etched on term. sleeve 5.0mm shaft reduced for 1/8 and 3mm bearings. Silver sintered magnet with no fan. Adjustable timing. Rotor:- 12.5.	23/11/2009

Speed Passion	Competition 3.0 . Black/Silver/Red label.	Schumacher	Light G/Metal Alu. Ends & Centre sleeve. Stator press fit & glued. Mntg. face with 3 holes 6.0 dia. 6 Screw holes. Wire connectors extend thru. Holes in End-Plate.	Sensored system. "Y" . G/Metal Alu. End-Bell with 'SP'. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet with no fan. ABC marking & SP engraved on End-Plate . Adjustable timing using slotted End-Plate.	05/10/2009
Novak	BALLISTIC Brushless. Clear label with details	CML	Black Alu. Ends. with copper colour loose centre sleeve. 6 screw holes.	Sensored system. "Y" Wind Black Alu. End-Bell with Novak name. Adjustable timing. 3/16 bearing at pinion end. Nickel plated sintered magnet.	01.06.09
Wave	WAVE <i>Linear</i>	Much-More Racing	Black Alu. Ends, with Black centre sleeve. Stator press fitted. 6 Screw holes.	Sensored system. "Y" Wind Black Alum. End-Bell with WAVE etched. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet. Rotors :- 12.5.	16/03/09
Nosram	PURE Evolution Clear label with detail. Wind etched on fixed sleeve.	Mirage	Two part , Al. Can, dark grey anodised . Loose main sleeve. 6 x 4mm wide slots each end. Chamfered mounting face. 6 screw holes.	Sensored system. "Y" Wind. Black plastic chamfered End-Bell with XTEC moulded. 6.00mm shaft reduced for 4.0mm bearings both ends. Silver sintered magnet. Adjustable timing using sensor plug moulds. Manufacturers grooved Aluminium End-Plate with XTEC & ABC etched allowed. Manufacturers replacement front housing with 6 triangle holes allowed.	09/03/2009  05/10/2009
LRP	X12 VECTOR Detail etched on sleeves.	SMD	Two part , Al. Can, dark grey anodised . Loose main sleeve. 6 x 4mm wide slots each end. Chamfered mounting face. 6 screw holes.	Sensored system. "Y" Wind. Black plastic chamfered End-Bell with XTEC moulded. 6.00mm shaft reduced for 4.0mm bearings both ends. Silver sintered magnet. Adjustable timing using sensor plug moulds. Manufacturers grooved Aluminium End-Plate with XTEC & ABC etched allowed. Manufacturers replacement front housing with 6 triangle holes allowed.	15/12/2008  05/10/2009
Tekin	Tekin Redline. Black label with detail.	MuchMore	Two part , Silver Al. Can. OD of Sleeve grooved. Stator bonded in sleeve. Red anodised end-plate. 6 screw holes	Sensored system. "Y" Wind. Black plastic End-Bell with Tekin moulded. 7.3mm shaft reduced for 4.0mm and 1/8 bearings. Silver sintered magnet. Rotors:- 12.5, 13.0.	15/12/2008
Losi	Xcelorin	Horizon Hobby	Blue Alu. End Caps, with loose silver centre sleeve. Removable End Cap has 'wind' engraved. Mounting face with chamfered edge. 6 Screw holes.	Sensored system. "Y" Wind. Black plastic End-Bell with Losi moulded. 7.35mm shaft reduced for 1/8 and 3/16 bearings. Silver sintered magnet. Rotor:- 12.25.	09/06/2008

Orion	Vortex 2008 Race. Silver marking.	Mirage	Black Alu. Ends, with loose Black centre sleeve. Separate Al. End Plate secured with 3 screws. 6 x 5 mm dia holes in term. End. 3 x 4mm slots at mounting face. Mounting face with chamfered edge. 6 Screw holes.	Sensored system. "Y" & Delta. Black Al. End-Plate with "TOP" & wind detailed. 7.25mm shaft reduced for 1/8 and 3/16 bearings. Silver sintered magnet with 13mm fan. Rotor:- 12.25.	19/05/2008
GM-Racing	Brushless PRO	Schumacher	Black Alu. Ends, with Black centre sleeve. Stator press fitted. Sleeve with 10 holes 5.0 x 9.0 mm. 6 Screw holes. Alu. End-Plates and centre sleeve Dark Grey anodised with Wind etched on sleeve for 2009 versions.	Sensored system. "Y" & "Delta" Wind Black Alum. End-Bell with GM Racing name. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet. Rotors :- 12.0, 12.3, 12.5. Alu. End-Plate Dark Grey anodised on 2009 versions.	28/04/2008  09/03/2009
Mtroniks	P2 SERIES. Purple label with P2. Wind No. on label.	Mtroniks	Purple Alu. Ends, with Purple centre sleeve. Stator press fitted. 6 Screw holes.	Non-Sensored system. "Y" Wind Purple Alum. End-Bell with Mtroniks name. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet. Rotors :- 12.5.	31/03/2008
Speed Passion	2.0 SERIES. Green/Orange label with Red detail and ABC marking on loose centre sleeve. 'SP' hand engraved on end-plate for first batch.	Schumacher	G/Metal Alu. Ends & loose centre sleeve. Each end with 6 slots at stator location. Mntg. face with 3 slots & 3 holes 6.0 dia. 6 Screw holes.	Sensored system. "Y" . G/Metal Alu. End-Bell with 'SP'. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet with fan. Rotors:- 12.0, 12.5, 13.0, 13.5.	31/03/2008
Trinity	DUO	Lesro	Black Alu. Ends, with Black centre sleeve. Each end with 6 angled slots. 6 Screw holes.	Sensored system. "Y" . Black Alum. End-Bell with 'Trinity'. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet with fan. Rotors :- 12.0, 12.5, 13.0.	01/10/2007  07/03/2008
Speed Passion	-	Schumacher	Black Alu. Ends, with Black centre sleeve. Each end with 6 holes 5.8 dia. 6 Screw holes.	Sensored system. "Y" . Black Alum. End-Bell with 'SP'. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet with fan. Rotors:- 12.0, 12.5, 13.0, 13.5.	01/10/2007  07/03/2008
Novak	EX Series. Clear label with Black text.	CML	Self colour two piece aluminium with plain surface. Gold aluminium stack sleeve. 6 Screw holes.	Sensored system. "Y" Wind Black moulded End-Bell with Novak name. 3/16 bearing in both ends. Bonded magnet (not wrapped). 13.5T approved	03/09/2007
Peak	Vantage BL Black/Red label, White detail.	Helger	Black Alu. Ends, with Black centre sleeve. E/Bell with 6 slots, Mnt. Face with three holes & 3 deep slots. 6 Screw holes.	Sensored system. "Y" Wind Black Alum. End-Bell with TOP name. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet with or without fan. Rotors:- 12.0, 12.5, 13.0, 13.5.	20/08/2007
GM-Racing	EVO 3	Schumacher	Black Alu. Ends, with Black centre sleeve. Each end with 6 slots. 6 Screw holes.	Sensored system. "Y" & 'Delta' Wind. Black Alum. End-Bell with GM- Racing. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet with or without fan. Rotors:- 12.0, 12.5.	30/04/2007

Mtroniks	PLASMA Purple label, Blue/Red/White detail.	Mtroniks	Purple Alu. Ends, with Purple centre sleeve. 6 Screw holes.	Non-Sensored system. "Y" Wind Purple Alum. End-Bell with Mtroniks name. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet.	26/03/2007
Orion	VORTEX Black/Red label, White detail.	Mirage	Black Alu. Ends, with Black centre sleeve. E/Bell with 6 slots, Mnt. Face with three holes & 3 deep slots. 6 Screw holes.	Sensored system. "Y" Wind Black Alum. End-Bell with TOP name. 5.0mm shaft reduced to 1/8 for bearings both ends. Black sintered magnet with or without fan. Rotors:- 12.0, 12.5, 13.0, 13.5.	26/03/2007  07/03/2008
LRP	VECTOR X11 Black/Blue label. VECTOR in Blue.	SMD	Silver Can sleeve. Black mounting plate with plain chamfered edge, 6 screw holes.	Sensored system. "Y" Wind. Black moulded End-Bell with VTEC or XTEC name. 7.4 mm stepped shaft, 3/16 bearings both ends. Wrapped bonded magnet 14.0 supplied:-8.5T, 7.5T, 6.5T, 5.5T. Varnished sintered magnet in:- 4.5T & 3.5T approved. 4.0T approved. Rotors:- Bonded 14.0. Sintered 12.3, 12.5, 13.0, 14.0. Manufacturers slotted End Plates (std. & thin versions) allowed at pinion end. Manufacturers grooved aluminium End plate with engraved name allowed at terminal end.	27/11/2006  16/07/2007  26/03/2007 27/08/2007  27/04/2008  19/07/2008
Nosram	STORM Evolution. Red, Black white label.	Mirage	Silver Can sleeve. Black mounting plate with plain chamfered edge, 6 screw holes.	Sensored system. "Y" Wind. Black moulded End-Bell with VTEC or XTEC name. 7.4 mm stepped shaft, 3/16 bearings both ends. Wrapped bonded magnet 14.0 supplied:-8.5T, 7.5T, 6.5T, 5.5T. Varnished sintered magnet in:- 4.5T & 3.5T approved. 4.0T approved. 3.0T approved Rotors:- Bonded 14.0. Sintered 12.3, 12.5, 13.0, 14.0. Manufacturers slotted End Plates (std. & thin versions) allowed at pinion end. Manufacturers grooved aluminium End plate with engraved name allowed at terminal end.	27/11/2006  16/07/2007  26/03/2007 27/08/2007 02/06/2008  27/04/2008  19/07/2008
LRP	VECTOR Blue/Black/Silver label, 'VECTOR' in Red.	Helger	Dark Grey Gun-metal sleeve. Black mounting plate with 6 screw holes.	Sensored system. "Y" Wind Black moulded End-Bell with VTEC name. 4 Star version approved. Wrapped bonded magnet with 3/16 bearings both ends.	24/04/2006
Nosram	STORM. Red/Black/Silver label. Storm in Red/White.	Mirage	Dark Grey Gun-metal sleeve. Black mounting plate with 6 screw holes.	Sensored system. "Y" Wind Black moulded End-Bell with VTEC name. 4 Star version approved. Wrapped bonded magnet with 3/16 bearings both ends.	13/03/2006
Novak	VELOCITI Series. 'R' and 'L' versions Clear labels with Silver text.	CML	Self colour two piece aluminium. Plain ends early 'R' 7.5 6.5 5.5 bonded. Grooved ends 4.5R bonded & all sintered versions of 'R' and 'L' versions. Stack sleeve :- 'R' - Purple. 'L' - Blue. Black available. 6 Screw holes.	Sensored system. "Y" Wind Black moulded End-Bell with Novak name. 3/16 bearing in End-cap only. Wrapped bonded 14.0 magnet in 7.5T, 6.5T, 5.5T, 4.5T. Nickel plated sintered magnet in 7.5T, 6.5T, 5.5T, 4.5T, 3.5T.  'L' version added. Rotors:- Bonded 14.0 Sintered 12.3, 13.0	20/02/2006  26/03/2007  14/01/2008 07/03/2008

Nosram	STORM. Red/Black/Silver label. Storm in Red/White.	Mirage	Dark Grey Gun-metal sleeve. Black mounting plate with 6 screw holes.	Sensored system. "Y" Wind. Black moulded End-Bell with VTEC name. Bonded magnet. 1, 2 & 3 Star versions approved.	20/02/2006
LRP	VECTOR Blue/Black/Silver label, 'VECTOR' in Red.	Helger	Dark Grey Gun-metal sleeve. Black mounting plate with 6 screw holes.	Sensored system. "Y" Wind. Black moulded End-Bell with VTEC name. Bonded magnet. 1,2 & 3 Star versions approved.	17/10/2005
Novak	Super Sport Series. Clear labels with silver, purple & black text.	CML	Self colour two piece aluminium. Purple aluminium stack sleeve. 6 Screw holes.	Sensored system. "Y" Wind. Black moulded End-Bell with Novak name. Bonded magnet.	04/07/2005

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