

## EUROPEAN FEDERATION RADIO CONTROLLED AUTOMOBILES


**Samples of Motors included on this list have been checked for compliance to EFRA Rules for:-  
Brushless 'Modified' Motors.**












**Starting 01.06.16, only Motors included on this list, can be used at EFRA Sanctioned events (EC or GP), for:  
The Motor Class designated for the event.**








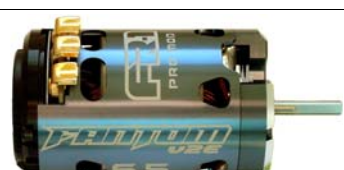



Whilst sample Motors submitted have been found to conform with EFRA rules for 'Modified' Brushless Motors, **it is the responsibility of ALL competitors to ensure that the versions they use also comply with all EFRA rules and requirements.**

Motor Builder	Type/ Range	Illustration only	Notes	Approval Date
Motors below this level must comply with EFRA Rules App.4 :- 4.8 (including 01.03.21 amendment) requiring access to stator to allow measurement and visual appraisal of the laminates. Also 4.9 & 4.12 (including 01.03.21 amendment) which requires the Rotor to be marked with Name or Logo & Part # on shaft.				
Team Corally	Vulcan II All winds.  6.5T Part # C-61153		Sensored system. One piece Can with Vulcan II Pro & wind on stator. Adj. timing 0-60 deg. Stator bonded. Long Can screws non-magnetic, timing screws magnetic. Al. sensor housing. Steel shielded bearings. Rotor with Corally, Part # C-61180 on shaft.	14.03.24
United Sino Enterprises	ORCA Modtreme2 All winds.		Sensored system. Stator bonded, but has access holes. Wind printed on stator. Adj. timing 5/60. All screws magnetic, Al. retaining housing, steel shielded bearings. ORCA & Part # RT18M121245 on magnet. Code # M121 on shaft.	17.01.24
Muchmore	Fleta ZX V3 All winds. Does not include 6.5T MR- V3ZX065R		Sensored system. Stator open, Caps remove. Adjustable timing 0/+50 deg. All screws magnetic, Al. retaining housing, steel shielded magnetic bearings. MUST have slots in both End-Caps for stator measuring. Rotor with: Muchmore, Part # on shaft: 3.5T-5.0T MR-FZRST, 5.5T-9.5T MR-FZR01.	04.09.23
Hoomark	Zombie EVO II All winds		Sensored system. Stator open, Caps remove. Adjustable timing 0/+60 deg. Body screws non-magnetic, timing screws magnetic, Al. retaining housing, steel shielded magnetic bearings. Rotor with: Zombie, Part # M-TZ-50121 on shaft. Option rotors: M-TZ-50125, M-TZ-50123, M-TZ-725125	16.08.23
Surpass Hobby	Rocket RC V6M All winds		End Caps remove but also two cut-outs for measuring. Adjustable timing 0/+60 deg. Wind & V6M printed on stator. All screws magnetic. Al. retaining housing, steel shielded magnetic bearings. Rotor with Surpass, Part # on shaft:- C52121 in 3.5T-5.0T. C52123 in 5.5T-10.5T. Both rotors allowed as Options.	16.08.23 15.02.24
Team Powers	Actinium V5.0 All winds		Sensored system. Black Al. one piece Can. 4 full length slots. Team Powers on End-Cap. Wind on stator. Adjustable timing 0-60. All 6 c/sk screws magnetic, Al. sensor housing, steel shielded bearings. Rotor with: Name & Part # on shaft, Part # TP123G-S35. Option rotor: TP121G-S2	18.06.23
Maclan	MRR V3m All winds. 6.5T Part # MCL1059		Sensored system. 3 side screws retain End-Cap. Timing insert with Maclan. Adjustable timing +20/+ 50. All screws magnetic. Al. sensor housing & horseshoe, magnetic steel shielded bearings. Stator removes with wind etched. Rotor with: name & Part # MCL4230 on shaft.	01.11.21
Ruddog	Ruddog RP542 All winds		Sensored system. 4 side screws retain End-Cap. Timing insert with Ruddog. Adjustable timing 0/+60. Wind & RP542 on stator visible. 3mm collector ring. All screws magnetic, Al. sensor housing, magnetic steel shielded bearings. Stator bonded. Rotor with name & Part #-: RP-0434	05.04.21

Team Powers	Actinium V4.0 6.5T Pt. # TPBLM 065100ACT-V4		Sensored system. Black Al. one piece Can. 4 full length slots. Team Powers on End-Cap. Wind on stator. Adjustable timing 0-60. Body screws non-magnetic, timing screws magnetic, Al. sensor housing, steel shielded bearings. Rotor with name, Part # TP123G-2.	01.03.21
Motors below this level must comply with EFRA Rules App.4 :- 4.8 (prior to 01.03.21 amendment) requiring access to stator to allow measurement and visual appraisal of the laminates. Also 4.9 & 4.12 (prior to 01.03.21 amendment) which requires the Rotor to be marked with Name or Logo & Part #.				
Tekin	Redline G4 Modified. All winds		Sensored system. "Y" Wind. Adj. timing 0/60. Machined Alum. Can, wind printed. Stator visible. All screws magnetic, Plastic sensor housing, magnetic steel shielded bearings. Rotor Part # TT2777 on flat.	07.12.20
Performa	p1 Radical MOD All winds. (6.5T Part # PA9417)		Sensored system. "Y" Wind. Stator removes. Adjustable timing 0/+40. Wind in screw slots. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name. Part # PA9357.	07.12.20
Revtech	XFactor		Sensored system. Blue end-plate has Revtech & XFactor etched. Wind on stator. Adjustable timing 0-60 deg. Has stator access. All screws magnetic, plastic retaining housing, steel shielded magnetic bearings. Rotor with name & Part # TEP1151. Option rotors: TEP 1153, TEP 1148.	07.12.20 06.12.21
Konect	K1 Elite Modified		Sensored system. "Y" Wind. Stator not bonded and removes for checking. Wind on stator visible. Adjustable timing 0/60. All screws magnetic, Al. retaining housing, magnetic steel shielded bearings. Rotor with name & Part #: K1/12.5C5 on flat	06.07.20
Freemax Technology. Arrowmax	Dash R-Tune V3 All winds		Sensored system. Stator removes. Adjustable timing 0/+60 deg. Wind etched on stator. All screws magnetic, Al. retaining plate, magnetic steel shielded bearings. Rotor has name, Part # DA-730010, V2RS123. Option rotor: DA-730009, V2RL122.	06.07.20
Ruddog	Ruddog RP541 All winds		Sensored system. 4 side screws retain End-Cap. Timing insert with Ruddog & RP541. Adjustable timing 0/+60. Wind on stator visible. 3mm collector ring. All screws magnetic, Al. retaining housing, magnetic steel shielded bearings. Stator removes. Rotor with name & Part #'s:- 4.5T - 5.5T RP-0348. 6.5T - 9.5T RP-0364. Also 6.5T 1S RP-0354 with RP-0348 Rotor. Option rotor: either of above.	11.05.20
Reedy	Reedy Sonic M4 Winds: 4.5T - 9.5T		Sensored. "Y" Wind. Timing insert with 'R' logo, timing 0/+ 50 deg. Caps remove. Stator removes. Wind on stator. All screws magnetic, Al. sensor housing & retaining plate, magnetic steel shielded bearings. Rotor with name & Part # 27448. Option rotors: 27447, 27449, 27450, 27460	09.03.20
Reedy	Reedy Sonic M4 Winds: 3.5T & 4.0T		Sensored. "Y" Wind. Timing insert with 'R' logo, timing 0/+ 50 deg. Caps remove. Stator removes. Wind on stator. All screws magnetic, Al. sensor housing & retaining plate, magnetic steel shielded bearings. Rotor with name & Part # 27450. Option rotors: 27447, 27448, 27449, 27460	09.03.20
Reedy	Reedy Sonic M4 6.5T only. Part # 27443		Sensored. "Y" Wind. Timing insert with 'R' logo, timing 0/+ 50 deg. Caps remove. Stator removes. Wind on stator, twin lines round wind. All screws magnetic, Al. sensor housing & retaining plate, magnetic steel shielded bearings. Rotor with name & Part # 27460. Option rotors: 27447, 27448, 27449, 27450	09.03.20

Reds Racing	VX3 All winds.  Part #'s ending with 'C', see notes		Sensored system. "Y" Wind. Red Al. timing plate. Adjustable timing 0-50. Caps. remove, cut-outs for measuring stator. All screws magnetic, Al. sensor housing & retaining plate, magnetic steel shielded bearings. Rotor with name & Part # MSTE 0019. Motors with Part # ending with C have non-magnetic long body screws.	03.02.20  09.11.20
Absima	CTM V.3 All winds		Sensored system. Stator removes, access holes. Absima logo End-Cap, wind on sleeve & stator. Adj. timing 0/50. Single collector ring. All screws magnetic, Al. retaining housing, magnetic steel shielded bearings. Rotor with name & Part # CTM N38UH.	03.02.20
Corally	Vulcan Pro All winds		Sensored system. "Y" Wind. Can with Vulcan Pro & wind on stator. Adj. timing 0-60 deg. Stator removes. All screws magnetic, Al. sensor housing. Steel shielded bearings. Rotor with name & Part #: 61135	07.10.19
Surpass	Rocket-RC  V5R		Stator removes. Adjustable timing 0/+60 deg. Wind etched on stator. 3mm collector ring. Body screws non-magnetic, timing screws magnetic, Al. retaining housing, steel shielded bearings. Steel body screws supplied with kit, allowed. Rotor with Surpass, Part # C52123 on shaft. Option rotor: C53125	30.09.19  06.04.20
Hoomark	Zombie CJ Edition. All winds		Sensored system. Stator bonded but visible. Adjustable timing 0/+60 deg. Body screws non-magnetic, timing screws magnetic, Al. retaining housing, steel shielded magnetic bearings. Rotor with: Zombie, Part # M-TZ-50125 or M-TZ-50123 on shaft. Option rotor: M-TZ-50121	22.04.19
SMC	Lowrider 6.5T Part # LR65LW		Sensored system. No centre sleeve, End-Caps remove. Adjustable timing +10/+54 deg. 6.5TLW etched on stator. All screws magnetic, Al. retaining housing, magnetic steel shielded bearings. Rotor with name & part #: LR512333. Option rotor: LR12033	22.04.19
RC Streamline	WS Line All winds		Sensored system. "Y" Wind. Sleeve with WS Line & wind on stator. Adj. timing 0-60 deg. Has stator access. Body screws non-magnetic, timing screws magnetic. Al. sensor housing. Steel shielded bearings. Rotor with name & Part #: WSL540M	22.04.19
United Sino Enterprises	ORCA Modtreme All winds. 6.5T Part # MO18MT5465T		Sensored system. Stator bonded, has access holes. ORCA Modtreme & wind etched on End-Cap & stator. Adj. timing 10/60. Single collector ring. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name & Part # RT18M121245. Option rotors: ORR323M3 - M3 on shaft. RT20M123245 - M123 on shaft. RT20MM12324 - MM123 on shaft.	04.02.19  04.07.22
LRP	XTEC X22 NB Mod. 6.5T only. Part # 520305		Sensored system. "Y" Wind. Black Al. End-Bell with XTEC. NB Vers. Adj. timing 0/60. Wind etched on stator. Body screws non-magnetic, timing screws magnetic, steel shielded bearings. Rotor with LRP & Part # 520531, 12.3NB on shaft. Option rotor: 520522.	14.01.19
Maclan	MRR V2m All winds. 6.5T Part # MCL1042		Sensored system. "Y" Wind. Alu. timing plate with logo. Can removes. Adjustable timing +20/+50 deg. Has stator access. All screws magnetic, full Al. sensor housing, steel shielded bearings. Rotor with name Part # MCL4174. Option rotors: MCL4175, MCL4187	14.01.19
Fantom	Fantom ICON 6.5T only. Pt. # FAN19336E		Stator glued in one piece can, no hysol on outer edge. Wind on stator. Can has wind & ICON etched. Adjustable timing +20/+60 deg. No pins fitted to stator slots. All screws magnetic. Bearings magnetic with steel shields. Rotor with name, Part # - FAN19596. Option steel pins 2.48 dia. included & allowed.	14.01.19

Yokomo	Racing Performer M4 All Winds 6.5T Part # RPM-M465		Sensored system. "Y" Wind. Alu. timing plate with Yokomo. End-Caps remove, Wind etched on stator. Adjustable timing 0/+50 deg. Has stator access. All screws magnetic, full Al. sensor housing, steel shielded bearings. Rotor part # RP-056	24.12.18
SMC	Lowrider		Sensored system. "Y" Wind. No centre sleeve, End-Caps remove. Adjustable timing +10/+54 deg. Wind etched on stator. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name & part #: LR512333. Option rotor: LR12033	24.12.18
Hobbywing	Xerun V10 G3 On-Road Spec. 6.5T only. Part # 30401123		Sensored system. Black Alu. End-Caps, plastic timing insert. 6.5T OnRoad has large area's of End Caps removed. Rotor with one Alu. bal. ring. Adjustable timing +20/+ 50 deg. Stator and wind visible. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor name & Part #:- 30820020. Option rotors: 30820019, 30820017	17.12.18
Reedy	Reedy Sonic M3 6.5T only. Part # 251		Sensored. "Y" Wind. Timing insert with 'R' logo, timing 0/+ 50 deg. Caps remove. Stator bonded, edges free of hysol. Twin lines round wind. Wind variation of existing motor prior to 01.03.18. All screws magnetic, Al. sensor housing & retaining plate, steel shielded bearings. Rotor with name & Part # 274.	17.12.18
Sky RC	ARES Pro. V2.1 6.5T Part # SK-400003-56		Sensored system. "Y" Wind. Stator removes. Adjustable timing +5/+55 deg. Wind etched on stator. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name & part #: SK-400003-37	03.12.18
Muchmore	FLETA ZX V2 Type R 6.5T Part # MR-V2ZX065R		Sensored system. "Y" Wind. Al. End-Bell. Adjustable timing 0-50. Stator removes. 6.5T R etched on stator. Rotor with black balance ring, steel shaft etched with sizes & SW. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name & part #. Rotor Part #: MR-FZR12WC.	19.11.18
Surpass	Rocket V4S		Sensored system. "Y" Wind. Stator removes. Adjustable timing 0/+60 deg. Wind etched on stator. Body screws non-magnetic, timing screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with Surpass, Part # C52123 on shaft.	17.09.18
RC Concept	RC Concept CR10 6.5T Part # 20410065		Sensored system. "Y" Wind. Stator removes. Adjustable timing 0/+60. Wind etched on stator. All screws magnetic, Al. retaining plate, steel shielded bearings. Rotor with name. Part # 50125.	24.06.18
Tekin	Redline G3 SPEC-R 6.5T Part # TT2700		Sensored system. "Y" Wind. Adj. timing 0/60. Machined Alum. Can, wind printed. Stator visible. All screws magnetic, Al. retaining housing, steel shielded bearings. Min. length 50.00mm. Rotor with name & Part # 2722. Option rotors: 2721, 2723, 2724.	23.04.18 14.01.19
Motiv	MC2 6.5T Part # MOV10625S		Sensored system. "Y" Wind. Alu. timing plate with logo. End-Caps remove, hysol stator ends. Adjustable sensor plate timing 0/+40 deg. Has stator access. All screws magnetic, full Al. sensor housing, steel shielded bearings. Rotor part # MOV1320. Option rotor MOV1326.	28.02.18 26.11.18
Arrowmax	Dash R-Tune. 6.5T Part # DA-740065		Sensored system. "Y" Wind. Stator removes. Adjustable timing 0/+60 deg. Wind etched on stator. All screws magnetic, Al. retaining plate, steel shielded bearings. Rotor with name. 4.5T : Part # DA-730001. Shaft RL125. Other winds: Part # DA-730002. Shaft RS125. Option rotors: DA-730005, DA-730006, DA-730007.	19.02.18 06.03.18

Motiv	MC2		Sensored system. "Y" Wind. Alu. timing plate with MOTIV logo. Both End-Caps remove, moulded stator ends. Adjustable sensor plate timing 0/+40 deg. Has stator access. All screws magnetic, full Al. sensor housing, steel shielded bearings. Rotor part # MOV1320	19.02.18
Hobbywing	Xerun V10 G3 5.5T - 8.5T		Sensored system. "Y" Wind. Black Alu. End-Caps, plastic timing insert. 5.0T & below has large area's of End Caps removed. 5.5T & above has full End Caps with small slots. Rotor with one Alu. bal. ring. Adjustable timing +20/+ 50 deg. Stator and wind visible. All screws magnetic, Al. retaining housing, steel shielded bearings.	27.02.18
Hobbywing	Xerun V10 G3 3.5T - 5.0T		Rotor Part #'s:- 3.5T 30820019 4.5T & 5T 30820017 5.5T & above 30820020. Option rotors: Any of above.	
Reds Racing	VX2 6.5T Part # MTTE 0018		Sensored system. "Y" Wind. Red Al. timing adjuster. Adjustable timing 0-50. Stator removes & has wind etched. All screws magnetic, Al. sensor housing & retaining plate, steel shielded bearings. Rotor with name & Part # MSTE0019.	15.01.18
Surpass	Rocket V3 Pro Modified		Sensored system. "Y" Wind. Stator bonded, has access. Adjustable timing 0/+45 deg. Wind etched on stator. Body screws non-magnetic, timing screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with Surpass, Part # C51125 on shaft. Black casings on later versions.	04.12.17 04.07.22
Tianco	ORCA RT-S		Sensored system. "Y" Wind. Stator bonded, has access slots. ORCA RT S & wind etched on End-Cap. Adjustable timing +/-45. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name & Part # ORR218ML.	20.11.17
Nosram	N22		Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Fixed End-Sleeve etched with wind. Black rotor shaft. Black stator moulding. Option Al. End-Plate: Black 920500 allowed Rotor with Nosram & Part # 920502.	16.10.17
Fantom	Fantom FR-1 v2 E. 6.5T. Pt. # FAN19456E		Sensored system. "Y" Wind. Stator glued in sleeve. Sleeve with wind etched. Adjustable timing +20/+60 deg. Has stator access but hysol on ends. Wind etched on stator. Rotor with name, Part # - FAN19595.	16.10.17
Corally	MOLAN SS-3.0 T2		Sensored system, two ports. "Y" Wind. One end of stator visible but sleeve removes. Stator has EFRA & wind etched. Grey End-Cap Alum., adjustable timing, no numbers. No fan on rotor. <b>Only T2 version approved.</b> Rotor with logo, Part # 61135	16.10.17
Orion	Vortex Ultimate Modified		Sensored system. "Y" Wind. Normal dia. Black sleeve with removable Alu. End-Plates. Adjustable timing 0/+40. Wind etched on end-plate. Serial # on sleeve. Two sensor plug. Rotor has name & part # ORI 41568.	07.08.17
Muchmore	FLETA ZX V2 6.5T Part # MR-V2ZX065		Sensored system. "Y" Wind. Al. timing plate, adjustable timing 0-50. Stator removes but can be seen through holes. Wind etched on stator. Shaft etched with rotor dia. Rotor with name & Part #: MR-FZR 01. Optional Rotor #'s: All MR-FZR :- 17TI, 16TI, 12WCTI, 20TIY, STTI, 02TI, 22TIY	24.07.17 31.10.17

Yokomo	Racing Performer. M3 Series		Sensored system. "Y" Wind. Black Can & End-Cap. Nickel rotor with one plain, drilled Alu. bal. ring. Adjustable timing 0/+ 50 deg. Wind on stator. Stator removes easily. Rotor with name & Part # RP-056. Optional rotor #'s: RP- :- 057, 058, 059, 060, 061, 062, 063, 064, 065.	24.07.17
LRP	XTEC X22		Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Fixed End-Sleeve etched with wind. Black rotor shaft. Black stator moulding. Option Al. End-Plates: Black 520500, Blue 520501 allowed Rotor with LRP & Part # 520502. Opt. rotors: 520503, 520504, 520506. 520505.	31.05.17 16.10.17
PRT Electronic	PRT AIRs PRO		Sensored system. "Y" Wind. Black Alu. Caps & Sleeve, PRT on End-Plate. Adjustable timing. Caps remove. Wind marked on sleeve. Has stator access. Rotor with name & Part # 125HT. Option rotor: 12HT	15.05.17
Scorpion	SCORPION POWER RS-3420		Sensored system. "Y" Wind. Stator bonded in sleeve. Sleeve & stator with wind etched. Adjustable sensor plate timing 0 +/- deg. Has stator access. Type 18 stator. Rotor has:- Steel Sleeve & Fan, Name & Part # 975. Option rotors: 976, 977.	15.05.17
Orion	Vortex Ultimate Stock XLW 6.5T # ORI28390		Sensored system. "Y" Wind. Small dia. Black sleeve with removable Alu. End-Plates, all retained with long screws. Adjustable timing 0/+40. Wind etched. Two sensor plug. Rotor has name & part # ORI 41554. Opt.rotors: ORI:- 41453, 41471, 41473, 41518	01.03.17
R1 Brushless Motor Lab.	R1 V15 BRCA & EFRA		Sensored system. "Y" Wind. End-Plate with R1 (only) etched. Stator sleeve with wind. Rotor with black balance ring. Adjustable timing 0-60 deg. Has stator access. Collector ring 3mm thick. Motors with epoxy filled windings not approved. Rotor with name & Part #: R1-125-720-002 Option rotors: R1-123-720-001, R1-125-720-001	13.02.17 03.04.17
Maclan	MRR		Sensored system. "Y" Wind. Black Can & End-Cap with copper timing plate & logo. Nickel rotor with one red Alu. bal. ring. Adjustable timing +20/+ 60 deg. Stator removes easily. Rotor Part # MCL4077. Optional rotors #'s: MCL4078, MCL4079.	16.01.17 15.05.17
Fantom	Fantom FR-1 Type RS		Sensored system. "Y" Wind. Stator has blue mouldings both ends. Sleeve with wind etched. Adjustable sensor plate timing +20/+60 deg. Has stator access. Wind etched on stator. Rotor with name, Part # - FAN19595.	16.01.17
Trinity	Monster Horsepower		Sensored system. "Y" Wind. End-plate has Trinity etched. Stator sleeve with Trinity, M & Wind etched. Adjustable sensor plate timing 0-60 deg. Has stator access. Wind stamped on lower collector ring. Rotor with name & Part # TEP1153 Option Rotors # TEP1151 & TEP1152.	02.01.17
Orion	Vortex VST2 Pro. Mg. LW (2016)		Sensored system. Dark grey one-piece Can. End-Plate has Team Orion & wind marked, retained with five screws. Adjustable timing +/- 10. Two sensor plugs. Has stator access. Rotor with name & Part # ORI 41518 Option rotors: ORI 41470, 41472, 41473	24.10.16
Tianco	ORCA RT		Sensored system. "Y" Wind. Black Can & E/Cap. Stator bonded but has access slots. ORCA RT & wind etched on End-Cap. Adjustable timing +/-50. Rotor with name & Part # ORR323M3. Option rotors:- ORR --- 423M0, 321M1, 238ML, 233ML, 253ML, 258ML.	08.08.16 02.01.17






Corally	Dynospeed MODX 3.0		Sensored system, two ports. "Y" Wind. One end of stator visible but sleeve removes. Stator has EFRA & wind etched. Wind etched on End-Cap. End-Cap Alum., adjustable timing, no numbers. Fan on rotor. Rotor with logo, Part # 61135	08.08.16
Fenix	Fenix DFV2		Sensored system. "Y" Wind. Black Alu. Can & End-Caps. Timing insert with Fenix DFV2 etched. Nickel sintered rotor with one Alu. bal. ring. Adjustable timing +20/+ 60 deg. Lams.visible. Rotor Part # AP67-B Option rotors: MF72, MF72-B	07.07.16
Tesla	Tesla EP		Sensored system. "Y" Wind. Blue Alu. Can & End-Caps. Timing insert with Tesla logo etched. Nickel sintered rotor with one Alu. bal. ring. Adjustable timing +20/+ 60 deg. Lams.visible. Rotor Part # TS-194036 or TS-194056	07.07.16 14.11.16
Ruddog	Ruddog RP540		Sensored system. "Y" Wind. Silver Alu. Can & End-Caps. Timing insert with Ruddog etched. Nickel rotor with one Alu. bal. ring. Adjustable timing +20/+ 60 deg. Lams.visible with wind visible on stator. Rotor Part # RP-12.5-5	30.05.16
Orion	Vortex VST2 Pro. V2 LW (2016)		Sensored system. "Y" Wind. Grey one-piece Can. Black all Aluminium End-Plate retained with five screws. Adjustable timing +/- 10. Wind etched. Two sensor plugs. Has stator access. Rotor with name & Part # ORI 41470. Option rotors: ORI 41472, 41473.	30.05.16
Orion	Vortex VST2 Pro. V2 LW Ultra (2016)		Sensored system. "Y" Wind. Grey one-piece Can. Black all Aluminium End-Plate retained with five screws. Adjustable timing +/- 10. Wind etched. Two sensor plugs. Sensing magnets. Has stator access. Rotor has name & Part # ORI 41547. Option rotors: ORI 41548.	30.05.16
Orion	Vortex VST2 Pro. V2 XLW (2016)		Sensored system. "Y" Wind. Black sleeve with removable Alu. End-Plates, all retained with long screws. Adjustable timing +/-10. Wind etched. Two sensor plug. Rotor has name & part # ORI 41470. Option rotors: ORI 41472, 41473.	30.05.16
Orion	Vortex VST2 Pro. V2 XLW ULTRA (2016)		Sensored system. "Y" Wind. Black sleeve with removable Alu. End-Plates, all retained with long screws. Adjustable timing +/-10. Wind etched. Two sensor plug. Sensing magnets. Rotor has name & Part # ORI 41547. Option rotors: ORI 41548.	30.05.16
Tekin	Redline Gen3		Sensored system. "Y" Wind. Black Alum. Timing plate 2.5mm above red ring.. Adj. timing 0/60. Machined Alum. Can with wind printed. Stator visible via. slots. Rotor with one brass balance ring Part # 2721 or 2723. Option rotor 2724. 2722 added Jan. 2019	16.05.16 14.01.19
Turnigy	Trackstar V2		Sensored system. "Y" Wind. Stator slides from sleeve. Sleeve with wind etched. Adjustable sensor plate timing 0-50 deg. Has stator access. Wind etched on stator. Rotor with name, sizes & Part #. Rotor Part # 919000280. Optional rotors 282, 283, 284	16.05.16
RC Concept	EC		Sensored system. "Y" Wind. End-caps and sleeve remove. Sleeve with wind etched. Adjustable sensor plate timing 0/45 deg. Has stator access. Wind & EFRA painted on stator. Rotor with name & sizes printed. Part # 50125 on shaft.	04.04.16

Team Epic	ReVtech 24K		Sensored system. "Y" Wind. End-Plate has Revtech etched. Stator sleeve with ReVtech & Wind etched. Adjustable sensor plate timing 0-60 deg. Has stator access. Wind stamped on lower collector ring & visible. Rotor with name & Part # TEP1153. Option rotors: TEP1151, TEP1152	01.02.16
				05.12.16
Hobbywing	Xerun V10 G2		Sensored system. "Y" Wind. Black Alu. Can & End-Cap, moulded timing insert with logo moulded. Nickel sintered rotor with one Alu. bal. ring. Adjustable timing +20/+ 50 deg. Stator and wind visible. Rotor Part # 30820002. Optional rotors: 3082 0006, 0008, 0010, 0012, 0013. Option End-Cap, timing +30/+60, Part # 30820054	18.01.16
				02.05.16 21.11.16
Reedy	Reedy Sonic M3		Sensored system. "Y" Wind. Black Alu. Cap & Sleeve, Alu. timing insert with 'R' logo. Adjustable sensor plate timing 0/+ 50 deg. Caps remove, some stators can be removed, some bonded. Wind etched on stator. Nickel sintered rotor with one Alu. balance ring. Rotor Part # 275. Two stator designs. Optional Rotors: # 274 & # 276. #s:- 271, 272, 273, 286, 296.	19.10.15
				04.04.16 15.05.17
Team Orion	ORION VST2 XLW (2015)		Sensored system. "Y" Wind. Black one-piece Can. Black all Aluminium End-Plate retained with five screws, fixed timing. Wind etched. One sensor plug. Rotor - ORI 41470	5.10.15
Motors below this level must comply with EFRA Rule - App.4, 4.8 & 4.9, which requires access to the stator to allow measurement and visual appraisal of the laminates.				
Team Orion	VST2 Pro. LW (2014)		Sensored system. "Y" Wind. Grey one-piece Can. Black all Aluminium End-Plate retained with five screws, adjustable timing. Wind etched. Two sensor plugs. Nickel sintered rotor, 12.1 dia, 4.7 core.	30.3.15
EZpower	EZ Kicker		Sensored system. "Y" Wind. Gun-metal End-Plates & Sleeve. Adjustable red timing ring. Nickel sintered rotor with Red hollow balance ring marked EZ, 12.4 dia, 5.0 core. Caps & sleeve remove, has stator access.	2.3.15
nVision	nVision R540		Sensored system. "Y" Wind. All metal End-Bell ass. with separate timing ring. Adjustable timing +/- 10. Stator removes from sleeve. Nickel sintered rotor, no balance ring, 12.0 dia, 4.7 core. Caps & sleeve remove, has stator access.	15.12.14
Tianco	ORCA RX3		Sensored system. "Y" Wind. Black Can & E/Cap. Complete stator removes. Has stator access slots. ORCA RX3 & wind etched on End-Cap. End-Cap Alum., adjustable timing. 12.5mm Rotor black balance ring.	10.11.14
Team Powers	Actinium.		Sensored system. "Y" Wind. Black Aluminium End-Plates, Team Powers etched. Gun-Metal stator sleeve. Nickel sintered rotor with no balance ring, 12.45 dia, 5.0 core. Adjustable sensor plate timing. Has stator access. Optional End-Plate TP-ATEB-001 allowed	20.10.14
Trinity	D4		Sensored system. "Y" Wind. Purple Alu. timing plate with TRINITY & 4 etched. Caps and sleeve dark gun-metal, all parts remove. Adjustable timing -10/+60. Has stator access. Nickel sintered rotor with one red balance ring, 12.5 dia, 5.0 core TEP1152. Option rotors: TEP1151, TEP1153.	29.09.14
				05.12.16
King Golden	Speed Passion Competition V4.0		Sensored system. "Y" Wind. Red Mounting plate, Black/Red Alu. End-Plate ass. Black stator sleeve with wind etched. Nickel sintered rotor with one Red balance ring, 12.5 dia, 5.0 core. Adjustable timing 0 -40 deg. Has stator access.	15.9.14

Absima	Revenge V2		Sensored system. "Y" Wind. Black Alu. Caps & Grey Sleeve, Logo only on End-Plate. Sintered rotor with one Alu. balance ring, 12.5 dia, 7.2 core. Sensor plate timing 0/+ 40 deg. Caps & sleeve remove, wind marked on stator. Only V2 version approved	30.6.14
SkyRC	Ares Pro.		Sensored system. "Y" Wind. Grey Alu. Caps & Sleeve, Alu. timing insert with Ares printed. Nickel sintered rotor with one Alu. balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing 0/+ 40 deg. Caps & sleeve remove, wind etched on stator.	27.5.14
Reds Racing	VX		Sensored system. "Y" Wind. Red metal End-Plate at Term. End, with adjustable timing 0-45. Black Can/Sleeve. Stator separates & has wind etched. Rotor with Red drilled balance ring # MSTE0013. Optional rotors:- # MSTE0012, MSTE0014.	05.05.14 06.07.16
G Force	G Force Super Sonic		Sensored system. "Y" Wind. Black Alu. Caps & Sleeve, Alu. timing insert with logo printed. Nickel sintered rotor with one Alu. balance ring, 12.5 dia, 5 core. Adjustable sensor plate timing 0/+ 40 deg. Caps & sleeve remove, wind etched on stator.	21.4.14
Hacker	SKALAR 10		Sensored system. "Y" Wind. Black plastic timing plate, adjustable 0-45. Purple Can/Sleeve. Stator separates. Nickel sintered rotor with drilled balance ring.	17.3.14
Trinity	Trinity D3.5		Sensored system. "Y" Wind. Purple Aluminium End-Plates with TRINITY etched. Black stator sleeve with D3.5 & wind. Nickel sintered rotor with one red balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing -30 + 40 deg. Has stator access	17.3.14
Hobbywing	Xerun V10		Sensored system. "Y" Wind. Black Alu. Can & End-Cap, moulded timing insert with logo printed. Nickel sintered rotor with one Alu. fan balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing -20/+ 50 deg. Stator and wind visible via. sleeve slots.	3.3.14
Yokomo	YOKOMO 'M' Series		Sensored system. "Y" Wind. Black metal End-Bell at Term. End, with adjustable timing 0-50, spigoted into sleeve. Black Can/Sleeve. Stator separates. Nickel sintered rotor. 12.5 dia, 5.0 core.	21.10.13
Team Wave	Eclipse Mod.		Sensored system. "Y" Wind. Black Alum. End-Plates. Adj. timing. Black Alum. stator sleeve with wind etched. Nickel sintered rotor with one plain balance ring, 12.5 dia, 5.0 core, marked 125-MT. Stator visible via. Sleeve slots.	21.10.13
Muchmore	FLETA ZX		Sensored system. "Y" Wind. Black metal End-Bell with plastic timing plate, with adjustable timing 0-45. Black Can/Sleeve. Stator separates. Nickel sintered rotor with drilled balance ring, shaft etched with rotor dia. Aluminium timing-plate MR-FZAT fitted to later versions.	24.06.13 05.08.14
Tianco	ORCA TX		Sensored system. "Y" Wind. Dull Grey Aluminium casings. Main sleeve removes, stator spigoted into fixed casing. Has stator access slots. ORCA TX & wind etched. End-Plate moulded, adjustable timing. Rotor no balance ring. Endplate OME111TX allowed. New sensor Ass. CAS-0220TX-30 fitted.	10.06.13 10.03.14 20.07.14

Team Orion	VST2 Pro. (2013)		Sensored system. "Y" Wind. Grey one-piece Can. Black all Aluminium End-Plate retained with five screws, adjustable timing. Wind etched. Two sensor plugs. Nickel sintered rotor, 12.1 dia, 4.5 core.	8.4.13
Vampire	Vampire V2 AB+		Sensored system. "Y" Wind. Stator removes from Al. Can. Black Al. ring retaining plastic timing plate. Wind etched. Nickel sintered rotor( Gold Col.) with two solid balance rings, 12.5 dia, 7.25 core. Plastic timing plate & retaining ring modified. All aluminium timing & end-plate Ass. fitted.	08.04.13 21.10.13 20.07.14
Tekin	Redline GEN2		Sensored system. "Y" Wind. Black Alum. End-Plates, not joined. Adj. timing. Machined Alum. Can with wind etched. Stator visible via. Sleeve holes. Nickel sintered rotor with one brass balance ring.	1.4.13
Reedy	Reedy Sonic Mach 2		Sensored system. "Y" Wind. Black metal End-Bell at Term. End, with adjustable timing 0-45. Black Can/Sleeve. Stator separates. Nickel sintered rotor with drilled balance ring Part # 958. Optional rotors:- # 957, # 987.	25.3.13
Savox	Savox SX.1		Sensored system. "Y" Wind. Aluminium casings. Slot for stator access included. Main sleeve removes, stator spigoted into fixed casing. Saxox X1 & wind etched. End-Plate moulded, adjustable timing. Rotor has 1 balance ring.	25.3.13
Motors below this level retain approval, although they were approved before implementation of EFRA Rule App.4, 4.8 & 4.9, (requiring access to stator for measurement and visual appraisal of laminates). Some motors do allow stator access.				
Horizon Hobby	Dynamite Platinum		Sensored system. "Y" Wind. Black Alluminium End-Plate at Term. End, with adjustable timing. Wind etched on Term. Sleeve, Stator mould & Stator Lams. Stator separates. Nickel sintered rotor with drilled balance ring, 12.5 dia, 5.0 core.	20.8.12
Ansmann	Xirius		Sensored system. "Y" Wind. Black Plastic Moulding at Term. End, with adjustable timing. Silver Can with silver end cover, 3mm slots in both parts. Wind etched on stator. Stator separates. Nickel sintered rotor with solid balance ring, 12.5 dia, 5.0 core.	14.5.12
Nosram	Pure 2 Evolution		Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Fixed End-Sleeve etched with wind. Nickel Sintered rotor. Rotor shaft, Black. Many rotor options. Grey stator moulding	16.4.12
Dualsky	Track & Field Z5		Sensored system. "Y" Wind. Silver Sleeve & Mounting-Plate. Z5, Wind, Track&Field etched on sleeve. Black Alu. End-Plate & retaining ring. Adjustable timing 7 - 27 deg. Nickel sintered rotor with no balance ring, 12.5 dia, 7.2 core.	2.4.12
LRP	X20 Modified		Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Fixed End-Sleeve etched with wind. Nickel Sintered rotor. Rotor shaft, Black. Many rotor options. Grey stator moulding	12.3.12
Team Epic	ReVtech R-Power		Sensored system. "Y" Wind. Copper colour Aluminium End-Plates, ReVtech painted. Blue stator sleeve with ReVtech & Wind painted. Nickel sintered rotor with one red balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing. Mounting Plate with 3 x 5.9mm slots.	12.3.12

Thunder Power	Z3R-M		Sensored system. "Y" Wind. Black Plastic Moulding at Term. End, with adjustable timing. Red Can/Sleeve with silver end cover, 6mm slots in both parts from 02.12. Wind etched on stator. Stator separates. Nickel sintered rotor with drilled balance ring, 12.5 dia, 5.0 core.	17.10.11 12.03.12
Speed Passion	Competition 3.0 Std. Vers. 2012		Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, SP etched. Gun-Metal stator sleeve with Wind & 3.0 etched. Black sintered rotor with one balance ring, 12.5 dia, 5.0 core. Adjustable timing 0 -10 deg.	26.3.12
	7.5T & 8.5T no Sleeve Vents.			12.3.12
Graupner	GM Brushless PRO. 2012 version.		Sensored system. "Y" Wind. Alum. Mounting-Plate with 3x5mm holes and 3 radiused slots. Plastic End-Cap with GM moulded. Adj. timing. Gun-Metal stator sleeve with Pt.# etched. Side entry sensor plug. Nickel rotor marked GM Race, 12.51 dia, 5.5 core.	31.12.11
Team Orion	VST Pro.		Sensored system. "Y" Wind. Grey one-piece Can. Grey End-Plate retained with four screws, adjustable timing. Wind etched. Nickel sintered rotor, 12.5 dia, 5.0 core. NOTE: Early versions without stator viewing slots are not approved.	22.8.11
Reedy	Reedy Sonic		Sensored system. "Y" Wind. Black Plastic End-Plate at Term. End, with adjustable timing. Black Can/Sleeve. Wind etched. Stator separates. Nickel sintered rotor with drilled balance ring, 12.5 dia, 7.2 core. Later version has more timing graduations detailed & relocated pointer.	04.07.11 26.03.12
Speed Passion	Competition 3.0 MMM Version		Sensored system. "Y" Wind. Dark Gun-Metal Aluminium Sleeve & End-Plates, SP etched. Sleeve with Wind & MMM etched. End-Plates with grooves. Red sensor board. Black sintered rotor with one balance ring, 12.5 dia, 5.0 core. Adjustable timing 11-20 deg.	4.7.11
Vampire	Vampire Type AB+		Sensored system. "Y" Wind. Black Plastic End-Plate at Term. End, with adjustable timing. Sensor plug horizontal. Gun-metal finish mounting plate and sleeve (9.5 has Black Mounting Plate). Wind etched. Nickel sintered rotor with no balance rings, 12.5 dia, 7.00 core.	06.06.11 12.03.12
Ansmann	Ansmann Xirius Pro		Sensored system. "Y" Wind. Black Aluminium End-Caps, Wind etched. Black loose stator sleeve. Nickel sintered rotor with no balance rings, 12.5 dia, 7.25 core. Fixed timing.	23.5.11
Viper	Viper VST		Sensored system. "Y" Wind. Red Aluminium End-Plates, VST & wind etched. Black grooved stator sleeve. Black sintered rotor with no balance rings, 12.25 dia, 7.35 core. Adjustable timing.	16.5.11
HPI	Flux Pro.		Sensored system. "Y" Wind. Black Aluminium End-Plates, HPI etched. Black stator sleeve with Wind etched. Nickel sintered rotor, 12.5 dia, 7.2 core. Adjustable timing. Optional rotors - 12.2, 12.8, (Nickel plated) 13.0, 13.5 (Copper finish). Optional rotor 107252 - Mag. & shaft Black.	28.03.11

Speed Passion	Competition 3.0 1Cell		Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, SP etched. Gun-Metal stator sleeve with Wind & 1Cell etched. Black sintered rotor with one balance ring, 12.5 dia, 5.0 core. Adjustable timing 0 - 10 deg.	31.1.11
Tianco	ORCA RX2		Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, ORCA RX2 etched. Gun-Metal stator sleeve with ORCA RX2 & Wind etched. Black sintered rotor with one balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing. Mounting Plate with 3 x 6mm holes & chamfer. Op.Rotor 12.8 dia, 5.0 core.	31.01.11 31.12.11
Trinity	Trinity D3		Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, Trinity etched. Black stator sleeve with D3 & Wind etched. Nickel sintered rotor with one balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing.	31.1.11
Team Orion	Vortex Pro Race 2009		Sensored system. "Y" Wind. Dark Gun-Metal Aluminium End-Plate with TOP etched. Dark Gun-Metal loose centre sleeve. Wind etched on Term sleeve. Mounting face with radial grooves, mounting screws on 25.0 & 25.4 pcd. Nickel sintered rotor, no fan. 12.5 dia. Adjustable timing.	23.11.09
Novak	Ballistic		Sensored system. "Y" Wind. Black Al. End-Plate with NOVAK etched. Copper colour loose centre sleeve. Nickel plated sintered rotor. 3/16 Bearing at Pinion end. Stator can be separated. Adjustable timing. Vented End-Bells # 5925 approved.	01.06.09 18.06.12
Paul Worsley. (EFRA Motor Homologation Officer) Last update 14.03.24.				