








## EUROPEAN FEDERATION RADIO CONTROLLED AUTOMOBILES



**Samples of Motors included on this list have been checked for compliance to EFRA Rules for:-  
Brushless 'Spec.' 17.5T Motors.**

**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 'Spec' Brushless Motors, **it is the responsibility of ALL competitors to ensure that the versions they use also comply with all EFRA rules and requirements.**








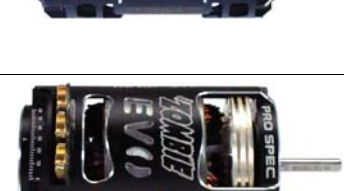



**NOTE: These motors differ from Brushless 'Modified' Motors.**

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 & 4.16 (including 01.03.21 amendment) which requires the Rotor to be marked with Name or Logo & Part # on shaft.				
Team Corally	Vulcan II Part # C-61172		Sensored system. One piece Can with Vulcan II Stock & 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-61185 on shaft.	14.03.24
Hobbywing	Xerun V10 G4R Pt # 30401748 Standard version		Sensored system. Rotor with one Alu. Fan type bal. ring. Adjustable timing +20/+ 60 deg. Stator and wind visible. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name & Part # on shaft 30820450. Option rotor: 30820407.	14.03.24
Reedy	Reedy SP5 R Euro Part # 27488		Sensored system. Stator open, Caps remove. Adjustable timing 0/+50 deg. All screws magnetic, Al. retaining housing, steel shielded magnetic bearings. SP5 & wind on stator. No epoxy in winding. Rotor with: Reedy, Part # 27483 on shaft.	14.03.24
United Sino Enterprises	ORCA Blitreme3 Part # MO24BT3U175 (EFRA version)		Sensored system. Stator bonded, but has access holes. Wind printed on stator. Adj. timing 5/60. All screws magnetic, steel shielded bearings. Small dia. steel location pin 5mm long bonded in stator groove. ORCA & Part # RT23HS12548 on magnet. Code # HS125 on shaft.	17.01.24
Muchmore	Fleta ZX V3 Type ER Part # MR- V3ZX175ERTM		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 # MR-FZR19XTM on shaft.	04.09.23
Surpass Hobby	Rocket RC V6M Lightweight Part # SUR 6517		End Caps remove but also two cut-outs for measuring. Adjustable timing 0/+60 deg. Wind & V6M Lightweight printed on stator. All screws magnetic. Al. retaining housing, steel shielded magnetic bearings. Rotor with: Surpass, Part # C75125 on shaft.	16.08.23
Surpass Hobby	Rocket RC V6 Part # SUR 6617		End Caps remove but also two cut-outs for measuring. Adjustable timing 0/+60 deg. Wind & V6 printed on stator. All screws magnetic. Al. retaining housing, steel shielded magnetic bearings. Rotor with: Surpass, Part # C78125 on shaft.	16.08.23

Hoomark	Team Zombie EVO II Part # M-TZ- EVO2175T		Sensored system. End-Caps remove. Adjustable timing 0/+60 deg. 4mm thick collector ring. Long body screws non-magnetic, timing plate screws magnetic, Al. sensor retaining housing, magnetic steel shielded bearings. Rotor with: Name & Part # on shaft M-TZ-725125. Option rotor: M-TZ-725125T	10.04.23
Trinity	Slot Machine Part # TEP 2022E		Sensored. Purple end-plate has Trinity & Slot Machine etched. Wind and 'EFRA' on 'open' stator. Adjustable timing 0-60 deg. Has stator access. Wind stamped on lower collector ring. All screws magnetic, Al. retaining housing, steel shielded magnetic bearings. <b>NOTE:</b> Original version has EFRA marked in GOLD on stator. Rotor with name & Part # on shaft TEP1119. Later version has EFRA logo marked in WHITE on stator. Rotor with name & Part # on shaft TEP1120. Either Rotors are allowed.	17.04.23 04.12.23
Team Powers	Actinium V5.0 Pt. # TPRBLM 175100 ACT-V5		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 # TP125G-R50. Option rotor: TP125G-R2	10.03.23 16.08.23
Core RC	Core RC Star Series Fixed timing. Part # CR858		Sensored system. "Y" Wind. Black Al. End-Caps with Core RC. Fixed timing. Stator bonded but wind etched on collector ring. All screws magnetic, steel shielded magnetic bearings. Rotor with Name, Part # CR859 on shaft.	04.07.22
Hobbywing	Justock G2.1 Fixed timing. Part # 30408011		Sensored system. "Y" Wind. Black Al. End-Caps with Hobbywing Justock G2.1. Fixed timing. Stator bonded, wind etched on stator. All screws magnetic, steel shielded magnetic bearings. Stator can be measured. Rotor with Name, Part # 30820007 on shaft.	02.05.22
Hobbywing	Xerun V10 G4 Pt # 30401141		Sensored system. Black all Alu. End-Caps. Rotor with one Alu. bal. ring. Adjustable timing +30/+ 60 deg. Stator and wind visible. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name & Part # on shaft 30820444. Option rotor: 30820416.	02.05.22
Nosram	XTEC Nosram N22 Part # 920202		Sensored system. "Y" Wind. Black Al. End-Cap with XTEC. Adj. timing 0/60. Wind etched on stator, visible. Body screws non-magnetic, timing screws magnetic, steel shielded magnetic bearings. Rotor with Nosram & Part # 920522 on shaft. Option rotor: 920521.	07.02.22
Ruddog	Ruddog RP542 Part # RP-0448		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-0435	05.04.21
Maclan	MRR V3 Part # MCL1051		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 # MCL4144.	01.03.21
Team Powers	Actinium V4.0 Pt. # TPBLM 175100 ACT-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 # TP125G-R2. Option rotor: TP123G-R2	01.03.21











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Tekin	Redline G4 SPEC-R Part # TT2762		Sensored system. "Y" Wind. Adj. timing 0/60. Machined Alum. Can, wind printed. Stator visable. All screws magnetic, Plastic sensor housing, magnetic steel shielded bearings. Rotor Part # TT2776 on flat.	07.12.20
Performa	p1 Radical Stock Part # PA9409		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 # PA9356.	07.12.20  05.07.21 Part # updated
Scorpion	SCORPION POWER RR-3420 Part # (ending) 7086984197		Sensored system. "Y" Wind. Stator not bonded but tight to remove. Wind on stator. Adjustable timing 0/60. All screws magnetic, Al. retaining housing, magnetic steel shielded bearings. Only later versions with no paint coatings on the stator ends are approved. Rotor with name & Part #: 4897086984234	06.07.20
Ruddog	Ruddog RP541 Part # RP-0361		Sensored system. "Y" Wind. 4 side screws retain End-Cap. Timing insert with Ruddog & RP541. Adjustable timing 0/+60. Wind on stator visible. 3mm colector ring. All screws magnetic, Al. retaining housing, magnetic steel shielded bearings. Rotor with name & Part #- RP-0349.	11.05.20
Reedy	Reedy S+Plus Torque Part # 27429		Sensored system. "Y" Wind. Alu. timing insert with 'R' logo, timing 0/+ 50 deg. Stator can be removed, wind etched on stator, twin lines round wind. All screws magnetic, Al. sensor housing & retaining plate, steel shielded bearings. Rotor with name & Part # 27414 of shaft flat.	06.04.20
Absima	CTM V.3 Part # 2130061		Sensored system. Stator removes, access holes. Absima logo End-Cap, wind on stator. Adj. timing 0/50. Single collector ring. Body & timing screws non-magnetic, Al. retaining housing, magnetic steel shielded bearings. Rotor with name & Part # CTM STK N42UH.	09.03.20
Reds Racing	VX3 Part # MTTE 0037 Also: MTTE0037C MTTE0037P MTTE0037PC 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 0030. Option rotor: MSTE 0031 Motor with Part # ending with:- 'C' has non-magnetic long body screws. 'P' has updated stator material	03.02.20  09.11.20 06.06.22
Hoomark	Team Zombie EVO. Part # M-TZ-EVO175T		Sensored system. "Y" Wind. Stator removes. Adjustable timing 0/+60 deg. 4mm thick collector ring. Body screws magnetic, timing screws magnetic, Al. retaining housing, magnetic steel shielded bearings. Rotor with: Zombie, Part # M-TZ-725125 on shaft. Option rotor: M-TZ-725123	13.01.20
Corally	Vulcan Stock Part # C-61112		Sensored system. "Y" Wind. Can with Vulcan Stock & wind on stator. Adj. timing 0-60 deg. Stator removes. All screws magnetic, Al. sensor housing. Steel shielded bearings. Rotor with name & Part #: 61130	07.10.19
Fantom	Fantom ICON Torque Part # FAN19217T		Stator glued in one piece can. Wind on stator. Can has wind & ICON etched. Adjustable timing +20/+60 deg. No full length internal pins, one magnetic pin 1 dia. x 8 long. All screws magnetic. Bearings magnetic with steel shields. Rotor with name, Part # - FAN19585.	30.09.19
Surpass	Rocket-RC V5R Part # SUR 51175		Stator removes. Adjustable timing 0/+60 deg. Wind etched on stator. 3mm colector 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 # C75125 on shaft. Option rotor: C77123 on shaft.	30.09.19

Speedzone	Speedzone Part # SZBLS175		One piece Can, stator removes. Adjustable timing 0/+60 deg. Wind etched on stator (hidden). All screws magnetic. Al. retaining housing, steel shielded bearings. Rotor with name, Part # SZR125S, diameters on shaft. Option Rotor: SZR125S-T, diameters on shaft.	19.08.19 30.09.19
Hobbywing	Xerun V10 G3R Pt # 30401131		Sensored system. Black Alu. End-Caps, plastic timing insert. Rotor with one Alu. bal. ring. Adjustable timing +30/+ 60 deg. Stator and wind visible. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name & Part # 30820411. Option rotor: 30820416. Later versions can have mounting end-cap chamfer plain aluminium with no black paint.	05.08.19 06.07.20
Revtech	XFactor Part # REV1102		Sensored system. Blue end-plate has Revtech & XFactor etched. Wind on stator. Adjustable timing 0-60 deg. Has stator access. Wind stamped on lower collector ring. All screws magnetic, plastic retaining housing, steel shielded magnetic bearings. Rotor with name & Part # TEP1119. Option rotor: TEP 1120.	03.06.19 06.12.21
United Sino Enterprises	ORCA Blitreme2 Part # MO18BT54175		Sensored system. Stator bonded, has access holes. ORCA, Blitreme2 & wind etched on End-Cap. Wind on stator. Adj. timing +10/60. Single 3mm collector ring. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name & Part #: RT18M125258.	25.03.19
Motiv	MC3 Part # MOV31017		Sensored system. Alu. timing plate with logo. End-Cap ass. removes. Adjustable sensor plate timing 0/+40 deg. Has stator access. Twin collector rings. All screws magnetic, full Al. sensor housing, steel shielded bearings. Rotor part # MOV1330. Option rotor MOV1318	04.02.19
LRP	XTEC X22 Part # 520202		Sensored system. "Y" Wind. Black Al. End-Bell with XTEC. Adj. timing 0/60. Wind etched on stator. Body screws non-magnetic, timing screws magnetic, steel shielded bearings. Rotor with LRP & Part # 520522, 12.5S on shaft. Option rotor: 520521, 12.3S on shaft. Later motors have two full length slots, and are allowed.	14.01.19 01.07.19
SMC	Lowrider Part # SMCLR40175		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 #: LR712542	24.12.18
Sky RC	ARES Pro. V2.1 Part # SK-400003-59		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-400003-20	03.12.18
Fantom	Fantom ICON Pt. # FAN193171CON		Stator glued in one piece can, no hysol on outer edge. Wind on stator. Can has wind & ICON etched. Adjustable timing +20/+60 deg. Three internal <b>steel pins 2.48 dia.</b> All screws magnetic. Bearings magnetic with steel shields. Rotor with name, Part # - FAN19597.	26.11.18
Surpass	Rocket V4S Stock Spec. Part # SUR7175		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 # C75125 on shaft. Option Rotor: C77123 on shaft.	17.09.18 12.11.18



Team Powers	Actinium V3.0 Pt. # TPBLM 175100 ACT-V3		Sensored system. Black Aluminium Sleeve & End-Cap. Stator with wind etched & visible. Sintered rotor with one balance ring. Body screws non-magnetic, timing screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name, Part # TP125G-R2. Option rotor: TP123G-R2	17.09.18 02.07.19
Hoomark	Zombie CJ Edition. Part # M-TZ-RBE175T		Sensored system. "Y" Wind. Stator bonded but visible. Adjustable timing 0/+60 deg. Body screws non-magnetic, timing screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with: Zombie, Part # M-TZ-725125 on shaft. Option rotor: M-TZ-725125S	17.09.18
Tekin	Redline G3 SPEC-R Part # TT2697		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 rotor: 2721	23.04.18
Hobbywing	Xerun V10 G3 Pt # 30401104		Sensored system. "Y" Wind. Black Alu. End-Caps, plastic timing insert. Rotor with one Alu. bal. ring. Adjustable timing +30/+ 60 deg. Stator and wind visible. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor Part # 30820018. Later motors 30820406. Both rotors allowed.	26.03.18 24.12.18
Surpass	Rocket V3 Pro Stock. Part # SUR6175  SUR1175		Sensored system. "Y" Wind. Stator bonded, has access. Adjustable timing 0/+45 deg. Wind etched on stator. Body screws non-magnetic screws, timing screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with Surpass, Part # C74125 on shaft. Black casings and Part # update in 2022.	05.02.18 04.07.22
Reedy	Reedy S+Plus Part # 27402		Sensored system. "Y" Wind. Alu. timing insert with 'R' logo, timing 0/+ 50 deg. Stator can be removed, wind etched on stator. All screws magnetic, Al. sensor housing & retaining plate, steel shielded bearings. Rotor with name & Part # 27414 of shaft flat.	15.01.18
Tianco	ORCA Blitreme Part # OMB175BL		Sensored system. "Y" Wind. Stator bonded, has access holes. ORCA Blitreme & wind etched on End-Cap. Adjustable timing 0/60. Twin collector ring. All screws magnetic, Al. retaining housing, steel shielded bearings. Rotor with name & Part # ORR425SO.	15.01.18
Reds Racing	VX2 Part # MTTE 0023		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 # MSTE0017. Option rotor MSTE 0018	15.01.18
Arrowmax	Dash R-Tune Part # DA740175		Sensored system. "Y" Wind. Stator removes. Adjustable timing 0/+60 deg. Wind on stator. All screws magnetic, Al. retaining plate, steel shielded bearings. (Non-magnetic body screws included with kit). Rotor with DASH:- Part # - DA-730003. Shaft RSS125.	01.01.18 19.02.18
<b>NOTE: ALL MOTORS SUBMITTED BEFORE 01.11.17, WERE HOMOLOGATED WITH MAGNETIC SCREWS AND STEEL SHIELDED BEARINGS FITTED.</b> <b>Changing these items invalidates the Motor Part # stated and contravenes App.4 Rule 4.6.</b>				
Maclan	MRR V2 Part # MCL1034		Sensored system. "Y" Wind. Black Can & End-Cap with logo. Nickel rotor with one Black Alu. bal. ring. Adjustable timing +20/+ 50 deg. Has stator access. Rotor Part # MCL4143. Option Rotor : MCL 4144	16.10.17 20.11.17

Trinity	Monster Max Horsepower Part # TEP 1506		Sensored system. "Y" Wind. Green end-plate has Trinity & Monster Max etched. Stator sleeve with Trinity, M Max & Wind etched. Adjustable sensor plate timing 0-60 deg. Has stator access. Wind stamped on lower collector ring. Rotor with name & Part # TEP1112, later versions TEP1119. Either options allowed.	16.10.17 09.04.18
Fantom	Fantom FR-1 v3R Pt. # FAN19413S		Sensored system. "Y" Wind. Stator glued in sleeve. Sleeve with wind & 'R' etched. Adjustable timing +20/+60 deg. Has stator access no hysol on outer edge. Wind etched on stator. Rotor with name, Part # - FAN19597.	25.09.17
Fantom	Fantom FR-1 v3T Pt. # FAN19414S		Sensored system. "Y" Wind. Stator glued in sleeve. Sleeve with wind & 'T' etched. Adjustable timing +20/+60 deg. Has stator access no hysol on outer edge. Wind etched on stator. Rotor with name, Part # - FAN19597.	25.09.17
Motiv	MCR Part # MOV101752S		Sensored system. "Y" Wind. Alu. timing plate with MOTIV logo. Both End-Caps remove. Nickel sintered rotor with black balance ring. Adjustable sensor plate timing +20/+50 deg. Has stator access. Rotor part # MOV1340	28.08.17
R1 Brushless Motor Lab.	R1 Part # R1-175B-125-V16 BRCA & EFRA		Sensored system. "Y" Wind. End-Plate with R1 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. V16 etched on sleeve. Rotor with name & Part #: R1-125-720-002 Option rotors: R1-123-720-001	24.07.17
Muchmore	FLETA ZX V2 Part # MR-V2ZX175ER		Sensored system. "Y" Wind. Al. timing plate, adjust. timing 0-50. Stator removes but can be seen through holes. Wind etched on stator. Shaft etched with rotor dia. Rotor with name & part #. Rotor Part #: MR-FZR 21Y. Optional rotor #'s: All MR-FZR :- 18TI, 19Z, 21TIZ, 21Z	10.07.17 31.10.17
PRT Electronic	PRT AIR 10 Part # A10175		Sensored system. "Y" Wind. Black Alu. Caps & Sleeve, PRT on End-Plate. Adjustable timing. Caps remove. Wind marked on sleeve. Has stator access. <b>"S" version not approved.</b> Rotor with name & Part # 125RSHT. Option rotor: 123RSHT	15.05.17
Hobbywing	Xerun Justock 3650 G2 Pt # 30408006		Sensored system. "Y" Wind. Black Alu. Can & End-Cap with Justock 3650G2. Nickel sintered rotor with one Alu. bal. ring. No timing adjustment. Stator and wind visible. Rotor Part # 30820007 stamped 7-12.5-A.	15.05.17
Fantom	Fantom FR-1 v2R Pt. # FAN19473S		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 # - FAN19591. Option Rotor: FAN19590.	23.01.17
Fantom	Fantom FR-1 v2T Pt. # FAN19474S		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 # - FAN19591. Option Rotor: FAN19590.	23.01.17
Orion	Vortex Ultimate Stock XLW (2016) # ORI28374		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 41553. Option Rotor: ORI 41554	23.01.17 13.02.17



Maclan	MRR Part # MCL1016		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 # MCL4075. Optional rotors # MCL4076 & MCL4093.	16.01.17
Tianco	ORCA RT Pt. # OMT175RT		Sensored system. "Y" Wind. Black Can & E/Cap. Stator has access slots. Stator accepts 14.5mm gauge. ORCA RT & wind etched on End-Cap. Adjustable timing +/-50. Rotor with name & Part # ORR425S0. Option rotors:- ORR --- 325S1, 233SL, 238SL, 253SL, 258SL.	16.01.17
Fenix	Fenix DFV2 Pt. # FM00175-2		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. Laminates visible. Rotor Part # MF72-B Option rotor: MF72	19.12.16
R1 Brushless Motor Lab.	R1 Part # R1-175B-125-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	12.12.16 03.04.17
Orion	Vortex VST2 Pro. Mg. LW (2016) # ORI28331		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 41517 Option rotor: ORI 41476	24.10.16
Team Powers	Actinium Pt. # TPBLM 175100 ACT- V2		Sensored system. "Y" Wind. Black Aluminium Sleeves & End-Plates. Stator with wind etched & visible. Nickel sintered rotor with no balance ring. Has stator access. (UK Spec. label not mandatory). Rotor with name, Part # TP125G-R	24.10.16
Tesla	Tesla EP Part # TS-194175T-S		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-194136	08.08.16
Corally	Dynospeed Spec. 3.0 Part # C-61102		Sensored system, two ports. "Y" Wind. One end of stator visible but stator removes. Stator has EFRA & wind etched. Wind etched on End-Cap. End-Cap Alum., adjustable timing, no numbers. Rotor with logo, Part # 61130	08.08.16
Motiv	M Code Part # MOV10705S		Sensored system. "Y" Wind. Alu. timing plate with MOTIV logo. Mounting Cap removes. Nickel sintered rotor with no balance ring. Adjustable sensor plate timing 0/+50 deg. Has stator access. Rotor part # MOV1315	08.08.16
Fantom	Fantom FR-1 Type M Pt. # FAN19482S		Sensored system. "Y" Wind. Stator glued & spigoted in sleeve. Sleeve with wind etched. Adjustable sensor plate timing +20/+60 deg. Has stator access. Wind etched on stator. Rotor with name, Part # - FAN19591. Optional Rotor: FAN19590	08.08.16 05.12.16
Ruddog	Ruddog RP540 Part # RP-0014		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-12.5-7.2	30.05.16

Tekin	Redline Gen3 Part # TT2705		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. Option rotors: 2719, 2722	16.05.16
Tekin	Redline Gen3 Part # TT2704 RPM		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. Option rotors: 2719, 2722	16.05.16
Turnigy	Trackstar V2 Pt # 80128		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 # 919000281	16.05.16
Hobbywing	Xerun V10 G2 Pt # 30101108		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 # 30820007 stamped 7-12.5-A. Option Rotor: # 30820015 stamped 7-12.5-U-B. Option End-Cap, timing +30/+60, Part # 30820054	08.01.16 12.12.16 21.11.16
Team Epic	ReVtech 24K Pt # REV1802		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 # TEP1112. Optional rotor # TEP1118.	23.11.15 14.11.16
Reedy	Reedy Sonic M3 Part # 254		Sensored system. "Y" Wind. Black Alu. Cap & Sleeve, Alu. timing insert with 'R' logo. Adjustable sensor plate timing 0/+ 50 deg. Caps remove and stator can be removed, wind etched on stator. Nickel sintered rotor with one Alu. balance ring. Rotor Part # 273. Optional Rotors #'s: 272, 286.	19.10.15 15.05.17
Reedy	Reedy Sonic M3 - SS 1S Part # 269		Sensored system. "Y" Wind. Black Alu. Cap & Sleeve, Alu. timing insert with 'R' logo. Adjustable sensor plate timing 0/+ 50 deg. Caps remove and stator can be removed, wind etched on stator. Nickel sintered rotor with one Alu. balance ring. Rotor Part # 272. Optional Rotors #'s: 273, 286.	19.10.15 15.05.17
G Force	G Force Super Extreme Pt # G0151		Sensored system. "Y" Wind. Red Alu. Cap & Sleeve, Alu. timing insert with G logo. Adjustable sensor plate timing 0/+ 60 deg. Caps & sleeve remove, wind etched on stator. Nickel sintered rotor with one Alu. balance ring. Rotor Part # GF400003-55 Optional rotor G0045	27.7.15
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.				
King Golden	Speed Passion V4.0 17.5R #SP001232		Sensored system. "Y" Wind. Black End-Plates & Sleeve with wind etched. Nickel sintered rotor with one Purple balance ring, 12.5 dia, 7.1 core. Adjustable timing 0 -40 deg. Has stator access.	9.3.15
EZpower	EZBR217R		Sensored system. "Y" Wind. Gun-metal End-Plates & Sleeve. Adjustable red timing ring. Nickel sintered rotor with Red hollow balance ring marked EZ, 12.5 dia, 7.2 core. Caps & sleeve remove, has stator access.	2.3.15




Hirosaka	Hirosaka Part # HSK- PRO175T		Sensored system. "Y" Wind. Black metal End-Bell with plastic timing insert. Adjustable timing 0-45. Black Can/Sleeve. Nickel sintered rotor with Purple balance ring, 12.3 dia, 7.1 core. Caps & sleeve remove, has stator access & wind marked..	9.2.15
Tianco	ORCA RX3 Part # OMR175X3		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. Rotor with black balance ring 12.4 dia., 7.2 core. Part # OTR124ST	10.11.14 25.05.15
Trinity	D4 Part # TEP 1702		Sensored system. "Y" Wind. Purple Alu. timing plate with TRINITY & 4 etched. Caps and sleeve dark gun-metal, all parts remove. Nickel sintered rotor with one purple balance ring, 12.3 dia, 7.2 core. Adjustable sensor plate timing -10 + 60 deg. Has stator access. Optional rotor TEP 1112 approved	29.9.14
Absima	Revenge V2 Part # 2130021		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
Team Powers	Actinium Pt. # TPBLM 175100 ACT		Sensored system. "Y" Wind. Black Aluminium End-Plates, Team Powers etched. Gun-Metal stator sleeve with 17.5T etched. Nickel sintered rotor with no balance ring, 12.45 dia, 7.24 core. Adjustable sensor plate timing. Optional End-Plate TP-ATEB-001 allowed. Optional Rotor # TP125G-R	27.05.14 20.10.14 18.01.16
Reds Racing	VX Part # MTTE 0007		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 Black drilled balance ring MSTE0010. Optional rotors:- # MSTE0009, MSTE0016	05.05.14 06.07.16
G Force	G Force Super Sonic Pt # G0009		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, 7.2 core. Adjustable sensor plate timing 0/+ 40 deg. Caps & sleeve remove, wind etched on stator. Option rotor GF400003-55	07.04.14 27.07.15
Hobbywing	Xerun V10 Pt. # 30401020048		Sensored system. "Y" Wind. Black Alu. Can & End-Cap, moulded timing insert with logo printed. Nickel sintered rotor with one Alu. balance ring, 12.5 dia, 7.2 core. Adjustable sensor plate timing -20/+ 50 deg. Stator and wind visible via. sleeve slots.	3.3.14
Novak	Vulcan Pt. # 3647		Sensored system. "Y" Wind. Black Al. End-Plate with NOVAK etched. Stator sleeve with 17.5T label. 3/16 Bearing at Pinion end. Yell. plastic denoting 17.5. Adjustable timing. Nickel sint. Rotor Pt.# 5955 12.5, 7.1 core. Optional rotor Pt.# 5941 12.3 dia.	09.09.13 21.10.13
Mtroniks	MX-1 Pt. # MTMX175		Sensored system. "Y" Wind. Anodised Alum. End-Plates & Stator Sleeve, with wind printed. Fixed timing. Nickel sintered rotor with one hollow balance ring, 12.5 dia, 7.2 core. Stator visible via. Sleeve slots.	5.8.13
Muchmore	FLETA ZX Pt # MR-FZX175		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 Green drilled balance ring. Rotor 7.2 core, 12.5 dia. Optional rotor MRFZR11 allowed. Aluminium timing-plate MR-FZAT fitted to later versions.	29.07.13 14.05.14 05.08.14

Nosram	Pure 2 Evolution Spec. Racing Pt.# 91854		Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Fixed End-Sleeve etched with wind. Sintered rotor, coloured Black, with 1 balance ring. Grey stator moulding. Rotor shaft Black stamped 12.5-25. Slot for stator access. Optional Green rotor # 90639 approved.	08.07.13 28.12.15
Team Epic	ReVtech Killshot Pt # REV1602R		Sensored system. "Y" Wind. Copper colour Aluminium End-Plates, Killshot painted. Blue stator sleeve with ReVtech & Wind painted. Nickel sintered rotor with one purple balance ring, 12.3 dia, 7.2 core. Adjustable sensor plate timing. Has stator access. Optional rotor TEP 1112 approved	08.07.13 07.04.14
Team Epic	ReVtech Killshot Pt # REV1602T		Sensored system. "Y" Wind. Copper colour Aluminium End-Plates, Killshot painted. Blue stator sleeve with ReVtech & Wind painted. Nickel sintered rotor with one purple balance ring, 12.3 dia, 7.2 core. Adjustable sensor plate timing. Has stator access. Optional rotor TEP 1112 approved.	08.07.13 07.04.17
Corally	Corally Pro Silver 17.5T 399175		Sensored system. "Y" Wind. Plain Alum. End-Plates. Adj. timing. Plain Alum. stator sleeve with wind etched. Nickel sintered rotor with one Black balance ring, 12.3 dia, 7.18 core. Stator visible via. Sleeve slots.	17.6.13
Tianco	ORCA TX Pt. # OTM 175TX		Sensored system. "Y" Wind. Dull Grey Aluminium casings. Main sleeve removes. Has stator access slots. ORCA TX & wind etched. End-Plate moulded, adjustable timing. 12.5mm Rotor no balance ring, shaft marked 125S-N. Option 123S-N. 12.3mm. Option EndPlate OME111TX allowed. New sensor Ass. CAS-0220TX-30 fitted.	10.06.13 10.03.14 20.07.14.
LRP	X20 17.5T Spec. # 50854		Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Fixed End-Sleeve etched with wind. Sintered rotor, coloured Black, with 1 balance ring. Grey stator moulding. Rotor shaft Black stamped 12.5-25. Slot for stator access. Optional Green rotor # 50639 approved.	22.04.13 28.12.15
Reedy	Reedy Sonic Mach 2 # 232		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, 12.5 dia, 7.2 core # 956. Optional rotors:- # 954, # 955.	8.4.13
Team Wave	Eclipse # TW2011-175		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, 7.17 core, marked 125-R. Stator visible via. Sleeve slots.	8.4.13
Tekin	Redline GEN2 17.5T # TT2404 & TT2405		Sensored system. "Y" Wind. Black Alum. End-Plates, not joined. Adj. timing. Alum. Can with wind etched. Stator visible via. Sleeve holes. Nickel sintered rotor with one brass balance ring. Rotor 7.14 core. 2404=12.25 dia. 2405=12.5 dia.	1.4.13
Savox	Savox SX.1 # SAV-BLH3650 991764		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 no balance ring.	25.3.13
Team Orion	VST2 Pro Stock 17.5. # ORI 28252		Sensored system. "Y" Wind. Grey one-piece Can. Black Aluminium End-Plate retained with five screws, adjustable moulded timing plate. Wind etched. Nickel sintered rotor, 12.5 dia, 7.1 core, no balance rings. Optional 12.4 dia, 7.2 core.	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 17.5T # DYP 1017		Sensored system. "Y" Wind. Black Aluminium 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, 7.2 core.	20.8.12
Hobbywing	Xerun Pt. # 90040141		Sensored system. "Y" Wind. Polished Aluminium End-Plates, Hobbywing etched. Fixed timing. Blue stator sleeve with 17.5T & Pt.# etched. Sleeve & EndPlates also Gunmetal colour. Side entry sensor plug. Nickel sintered rotor, 12.4 dia, 7.2 core. Rotor with one balancing ring.	13.8.12
Reedy	Reedy Sonic Pt. # 941		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.	14.5.12
Team Epic	ReVtech R-Power Pt # REV1052		Sensored system. "Y" Wind. Copper colour Aluminium End-Plates, ReVtech painted. Blue stator sleeve with ReVtech & Wind painted. Nickel sintered rotor with one purple balance ring, 12.45 dia, 7.2 core. Adjustable sensor plate timing. Mounting Plate with 3 x 5.9mm slots.	12.3.12
Vampire	Vampire Type AB+ Bloodline Pt. # VR-3175		Sensored system. "Y" Wind. Black Plastic End-Plate at Term. End, with adjustable timing. Sensor plug horizontal. Blue End plates. Wind etched. Nickel sintered rotor with no balance rings, 12.5 dia, 7.21 core.	12.3.12
Graupner	GM Brushless PRO. Pt. # 97417. 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 Wind & Pt.# etched. Side entry sensor plug. Nickel rotor marked GM Stock, 12.51 dia, 7.24 core.	31.12.11
Thunder Power	Z3R-S Part # TPM-540A175		Sensored system. "Y" Wind. Black Plastic Moulding at Term. End, with adjustable timing. Red Can/Sleeve with silver end cover. Wind etched on stator. Stator separates. Nickel sintered rotor with drilled red balance ring, 12.25 dia, 7.2 core. Optional Rotors:- Blue or Green balance ring.	17.10.11. 16.04.12.
Speed Passion	Competition 3.0 MMM Version Pt.# SP000039		Sensored system. "Y" Wind. Dark Gun-Metal Aluminium Sleeve & End-Plates, SP etched. Sleeve with Wind etched. End-Plates with grooves. Red sensor board. Black sintered rotor with one balance ring, 12.3 dia, 7.2 core. Adjustable timing 11-20 deg.	4.7.11
Trinity	Trinity D3 Pt. # TEP1053		Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, Trinity etched. Black stator sleeve with D3 & 17.5T etched. Nickel sintered rotor with one balance ring, 12.25 dia, 7.21 core. Adjustable sensor plate timing.	16.5.11
Viper	Viper VST Pt. # 8VST 175001		Sensored system. "Y" Wind. Red Aluminium End-Plates, VST & 17.5T etched. Black grooved stator sleeve. Black sintered rotor with no balance rings, 12.5 dia, 7.35 core. Adjustable timing.	16.5.11
Novak	Ballistic Pt. # 3617		Sensored system. "Y" Wind. Black Al. End-Plate with NOVAK etched. Stator sleeve with 17.5T label. Ring etched. Nickel plated sintered rotor, 12.3 dia, 7.12 core. Yellow plastic denoting 17.5. Adjustable timing. Vented End-Bells # 5925 approved.	11.04.11 18.06.12

Tekin	Tekin Redline 17.5T Spec. Pt. # TT2251 (Etched Can)		Sensored system. "Y" Wind. Red Aluminium mounting plate. Black moulded End-Bell with Tekin. Grooved Al. bonded stator sleeve with 17.5T etched. Nickle plated sintered rotor, 12.4 dia, 7.11 core. No balance rings.	11.4.11
HPI	Flux Pro. Pt. # 101733		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 rotor - 12.2 dia, 7.2 core, Nickel plt. Optional rotor 107252 - Mag. & shaft Black.	28.03.11 07.05.12
Team Powers	Plutonium  Pt.# TP-BLM- 175100PL		Sensored system. "Y" Wind. Black Aluminium End-Plates, Team Powers etched. Gun-Metal stator sleeve with 17.5T etched. Nickel sintered rotor with no balance ring, 12.26 dia, 7.24 core. Adjustable sensor plate timing. Optional End-Plate TP-ATEB-001 allowed.	12.02.11 20.10.14
Graupner	GM Brushless PRO. Pt.# 97357 2011 version.		Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, GM-Racing etched. 5 timing threads. Gun-Metal stator sleeve with S17.5T & Pt.# etched. Side entry sensor plug. Black sintered rotor, 12.4 dia, 7.21 core. Rotor with one balancing ring.	31.1.11
Tianco	ORCA RX2 Pt. # OBM175X2		Sensored system. "Y" Wind. Gun-Metal End-Plates, RX2 & 17.5T etched. Gun-Metal sleeve with RX2 & 17.5T etched. Black rotor, one balance ring, 12.2 dia, 7.20 core. Optional rotor OMA123PX 12.2mm nickel. Adjustable sensor plate timing. Mounting Plate 3 x 6mm holes & chamfer.	31.01.11 31.12.11
Graupner	Brushless PRO. Pt. # 97297		Sensored system. "Y" Wind. Dark Gun-Metal Aluminium End-Plates, GM-Racing etched. 5 timing threads. Dark Gun-Metal stator sleeve with S17.5T & Pt.# etched. Side entry sensor plug. Black sintered rotor, 12.3 dia, 7.2 core. Rotor with one balancing ring.	21.12.09
LRP	X12 Vector Stock Spec. Pt.# 50852		Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Sleeve etched "17.5 Turns". Black Sintered rotor, 12.5 dia, 7.1 core. Rotor shaft, Black. Manufacturers 'grooved' Al. End-Bell with name engraved allowed at terminal end. Optional green rotor 50639 12.2, 7.1 core. Later versions have rotor shaft stamped.	23.11.09 31.01.11 28.05.12
LRP	Vector X11 Stock Spec. Pt. # 50850		Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Gold anodised ring. Chamfered mounting face. Sleeve etched "17.5 Turns". Sintered rotor, 12.3 dia, 7.35 core. Rotor shaft, Black. Manufacturers 'slotted' End Plates (std. & thin versions) allowed at pinion end. Manufacturers later 'grooved' Al. End Plate with name engraved allowed at terminal end.	5.10.09
Speed Passion	3.0 - 17.5R Pt.# SP138175V3		Sensored system. "Y" Wind. Light Gun-Metal Aluminium End-Plates, SP & 17.5T etched. Light Gun-Metal stator sleeve with SP17.5T etched. Black sensor board. Black sintered rotor with one balance ring, 12.3 dia, 7.22 core. Adjustable timing 0-10.	5.10.09

Paul Worsley. (EFRA Brushless Motor Homologation Officer) Last update 14.03.24.