









EUROPEAN FEDERATION RADIO CONTROLLED AUTOMOBILES

**Samples of Motors included on this list have been checked for compliance to EFRA Rules for:-
Brushless 'Spec.' 10.5T 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 |
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| 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. | | | | |
| United Sino Enterprises | ORCA Blitreme3A Part # MO24BT3U105A (EFRA version) |  | Sensored system. Stator bonded, but has access holes. Wind printed on stator. Adj. timing 5/60. All screws magnetic, steel shielded magnetic bearings. Small dia. steel location pin 5mm long bonded in stator groove. Rotor with ORCA, Part # RT23HS12548 on shaft. Option rotor: RT18M125258 on shaft. | 07.10.24 |
| Reds Racing | VX3 Part # MTTE 0035P |  | Sensored system. Red Al. timing plate. Adjustable timing 0-50. End-Caps remove, cut-outs for measuring stator. All screws magnetic, Al. sensor housing & retaining plate, magnetic steel shielded bearings. Rotor with name & Part # MSTE0041 on shaft. Option rotor: MSTE0031 | 07.10.24 Rotor change. See also 2020 Approvals |
| Core RC | Core RC Star Series Fixed timing. Part # CR856 |  | 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 |
| Nosram | XTEC Nosram N22 Part # 920200 |  | 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-0446 |  | 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 |
| Team Powers | Actinium V4.0 Pt. # TPBLM 105100 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 |
| 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 & 4.16 (prior to 01.03.21 amendment) which requires the Rotor to be marked with Name or Logo & Part #. | | | | |
| Performa | p1 Radical Stock Part # PA9407 |  | 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 # PA9355. | 07.12.20 05.07.21 Part # updated |
| Konect | K1 Elite Stock Part # K11901007 |  | 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 #: K1/12.5C7.2 on flat | 06.07.20 |

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| Reds Racing | VX3 Part # MTTE 0035 Also: MTTE 0035C 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. Motor with Part # ending with C has non-magnetic long body screws. | 03.02.20 09.11.20 |
| Absima | CTM V.3 Part # 2130059 |  | Sensored system. Stator removes, access holes. Absima logo End-Cap, wind on sleeve & 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. | 03.02.20 |
| Corally | Vulcan Stock Part # C-61110 |  | 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 |
| Surpass | Rocket-RC V5R Part # SUR 51105 |  | 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 # C75125 on shaft. Option rotor: C77123 on shaft. | 30.09.19 |
| RC Concept | RC Concept CR10 Part # 20410105 |  | Sensored system. "Y" Wind. Stator bonded. Adjustable timing 0/+60. Wind etched on stator. All screws magnetic, Al. retaining plate, steel shielded bearings. Rotor with name. Part # 50126. | 03.06.19 |
| RC Streamline | WS Line Part # E19105 |  | 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 #: WSL540S | 22.04.19 |
| LRP | XTEC X22 Part # 520200 |  | 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 # SMCLR42105 |  | 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-400003-57 |  | 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 |
| Surpass | Rocket V4S Stock Spec. Part # SUR7105 |  | 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 |
| Hobbywing | Xerun V10 G3 Pt # 30401112 |  | 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. Option rotor 30820406. Later versions can have mounting end-cap chamfer plain aluminium with no black paint. | 26.03.18 24.12.18 06.07.20 |

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| Motiv | MC2 Part # MOV101052S |  | Sensored system. "Y" Wind. Alu. timing plate with MOTIV logo. Both 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 # MOV1330 | 19.02.18 |
| Reds Racing | VX2 Part # MTTE 0021 |  | Sensored system. "Y" Wind. Red Al. timing adjuster. Adjustable timing 0-50. Stator removes & has wind etched. Magnetic screws, 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 # DA740105 |  | 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 |
| NOTE: ALL MOTORS SUBMITTED BEFORE 01.11.17, WERE HOMOLOGATED WITH MAGNETIC SCREWS AND STEEL SHIELDED BEARINGS FITTED. Changing these items invalidates the Motor Part # stated and contravenes App.4 Rule 4.6. | | | | |
| Trinity | Monster Horsepower Part # TEP 1500 "M" |  | Sensored system. "Y" Wind. Green end-plate has Trinity & Monster Horsepower 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 # TEP1112, later versions TEP1119. Either options allowed. | 16.10.17 09.04.18 |
| Muchmore | FLETA ZX V2 Part # MR-V2ZX105ER |  | 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 :- 18T1, 19Z, 21TIZ, 21Z | 24.07.17 31.10.17 |
| PRT Electronic | PRT AIRs 10 Part # A10105S |  | 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 # 125RSHT. Option rotor: 123RSHT | 31.05.17 |
| Tesla | Tesla EP Part # TS-194105T-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 | 15.05.17 |
| PRT Electronic | PRT AIR 10 Part # A10105 (2017 ver.) |  | 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 # 125RSHT. Option rotor: 123RSHT | 15.05.17 |
| Hobbywing | Xerun Justock 3650 G2 Pt # 30408004 |  | 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 |
| R1 Brushless Motor Lab. | R1 Part # R1-105B-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 | 13.02.17 03.04.17 |
| Orion | Vortex Ultimate Stock LW (2016) # ORI28368 |  | Sensored system. "Y" Wind. Full 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. Option Rotor: ORI 41553 | 23.01.17 13.02.17 |

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| Maclan | MRR Part # MCL1014 |  | 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. # OMT105RT |  | 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 # ORR325S1. Option rotors:- ORR --- 425S0, 233SL, 238SL, 253SL, 258SL. | 16.01.17 |
| Ruddog | Ruddog RP540 Part # RP-0012 |  | 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 | 05.09.16 |
| Fenix | Fenix DFV2 Pt. # FM00105- 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 # AP67-B. Option rotor: MF72-B | 05.09.16 |
| Corally | Dynospeed Spec. 3.0 Part # C-61100 |  | 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 |
| Tekin | Redline Gen3 Part # TT2708 |  | 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 |
| Hobbywing | Xerun V10 G2 Pt # 30101106 |  | 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 | 18.01.16 12.12.16 21.11.16 |
| Reedy | Reedy Sonic M3 - SS 1S Part # 285 |  | 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. | 28.12.15 15.05.17 |
| Turnigy | Trackstar V2 Pt # 84388 |  | 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 | 23.11.15 |
| For Homologations before 2016 -- See:- Brushless ARCHIVE, All Wind Classes before 2016. | | | | |
| Paul Worsley. (EFRA Brushless Motor Homologation Officer). email: paul.g.worsley@gmail.com | | | | 01.01.25 |