

01.07.19.



## **EUROPEAN FEDERATION RADIO CONTROLLED AUTOMOBILES**

## Samples of Motors included on this list have been checked for compliance to EFRA 2019 Rules: For Brushless 'Spec.' 13.5T 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.

Whiist sample Motors submitted have been found to conform with EFRA 2019 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<br>Builder           | Type/<br>Range                           | Illustration only  | Notes  | Approval<br>Date     |
|----------------------------|--|--|--|----------------------|
|                            | w this level must                        |  | 4.8 & 4.9 which requires access to stator to allow measurer uires the Rotor to be marked with Name or Logo & Part #.   | ment and             |
| United Sino<br>Enterprises | ORCA Blitreme2 Part # MO18BT54135        | A STATE OF S | 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.   | 17.06.19             |
| RC Concept                 | RC Concept<br>CR10<br>Part #<br>20410135 | POWER GILLS  | 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.   | 17.06.19             |
| Hobbywing                  | Xerun<br>V10 G3R<br>Pt #<br>30401130     | TO STATE OF THE PARTY OF THE PA | 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 with name & Part # 30820411. Option rotor: 30820416                                | 15.05.19<br>17.06.19 |
| Revtech                    | XFactor<br>Part #<br>REV1101             | 13.5T  | 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.                                       | 07.05.19             |
| RC<br>Streamline           | WS Line<br>Part # E19135                 |  | 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<br>X22<br>Part #<br>520201          |  | 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<br>01.07.19 |
| Motiv                      | MC3<br>Part #<br>MOV31013                | MOTIV CO.  | 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 with name & part # MOV1330.  Option rotor MOV1318.                                      | 14.01.19<br>04.02.19 |
| SMC                        | Lowrider<br>Part #<br>SMCLR40135         | name CCE   | 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.<br>V2.1<br>Part #<br>SK-400003-58      | ARESON                        | 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<br>ICON<br>Pt. #<br>FAN193131CON          |                               | 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             |
|                | [  | TEM REMOVED FROM HO           | OMOLOGATION LIST   | 24.06.19             |
| Surpass        | Rocket V4S<br>Stock Spec.<br>Part #<br>SUR7135   | PAS STOCK WWW.                | 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<br>12.11.18 |
| Team<br>Powers | Actinium V3.0<br>Pt. #<br>TPBLM 135100<br>ACT-V3 |                               | Sensored system. Black Aluminium Sleeve & End-Cap. Stator with wind etched & visable. 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<br>02.07.19 |
| Hoomark        | Zombie<br>CJ Edition.<br>Part #<br>M-TZ-RBE135T  | PROSPEC                       | Sensored system. "Y" Wind. Stator bonded but visable. 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<br>G3 SPEC-R<br>Part # TT2698            | 5-3 (3.5)<br>Tergn            | Sensored system. "Y" Wind. Adj. timing 0/60. Machined Alum. Can, wind printed. Stator visable. 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<br>V10 G3<br>Pt #<br>30401103              | XERRUN —13.5T—  ACHINETYPHARE | 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. | 27.02.18<br>24.12.18 |
| Surpass        | Rocket V3<br>Pro Stock.<br>Part #<br>SUR6135     |                               | 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 # C74125 on shaft.  | 05.02.18             |
| Reedy          | Reedy<br>S+Plus<br>Part # 27403                  |                               | 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<br>Blitreme<br>Part #<br>OMB135BL           | BLITREME (S.S.) DECA          | 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<br>Racing | VX2<br>Part #<br>MTTE 0022                       | 13.5T VX2                     | 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<br>R-Tune<br>Part #<br>DA740135            | Dash Zive                      | 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<br>19.02.18 |
|----------------------------|---|--------------------------------|---|----------------------|
| NOTE:                      |   | AND STEEL SHIELD               | 17, WERE HOMOLOGATED WITH MAGNETIC SCR<br>DED BEARINGS FITTED.  | EWS                  |
|                            | Changing the                                    | ese items invalidates the Moto | r Part # stated and contravenes App.4 Rule 4.6.   |                      |
| Maclan                     | MRR V2<br>Part #<br>MCL1033                     |                                | 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<br>20.11.17 |
| Trinity                    | Monster Max<br>Horsepower<br>Part #<br>TEP 1505 | MAX<br>TRANSTY                 | 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<br>09.04.18 |
| Fantom                     | Fantom<br>FR-1 v3R<br>Pt. #<br>FAN19411S        |                                | 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<br>FR-1 v3T<br>Pt. #<br>FAN19412S        |                                | 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<br>Part #<br>MOV101352S                     |                                | 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<br>Motor Lab. | R1<br>Part #<br>R1-135B-125-V16<br>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-V2ZX135ER                 | E PLETAZXZA                    | 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  | 24.07.17<br>31.10.17 |
| PRT<br>Electronic          | PRT AIRs 10<br>Part #<br>A10135S                | Testell PRI 10                 | 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             |
| PRT<br>Electronic          | PRT AIR 10<br>Part # A10135<br>(2017 ver.)      | PRI                            | 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<br>Justock 3650<br>G2<br>Pt # 30408005    | USEOCK III                     | 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<br>Motor Lab. | R1<br>Part #<br>R1-135B-125-V15<br>BRCA & EFRA         | 13.5                          | 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<br>03.04.17 |
|----------------------------|--|-------------------------------|---|----------------------|
| Fantom                     | Fantom<br>FR-1 v2R<br>Pt. #<br>FAN19471S               |                               | 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<br>FR-1 v2T<br>Pt. #<br>FAN19472S               |                               | 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<br>Ultimate Stock<br>LW<br>(2016)<br># ORI28369 |                               | 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<br>13.02.17 |
| Maclan                     | MRR<br>Part #<br>MCL1015                               | Maclan                        | 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<br>Pt. #<br>OMT135RT                           | ÖRÇA J<br>PIT SERIES<br>13.57 | 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             |
| Reds<br>Racing             | VX<br>Part #<br>MTTE 0012                              | EST FREEZIFIES                | 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 Green drilled balance ring Part # MSTE0016.  Optional rotors:- # MSTE0009, MSTE0010  | 19.12.16             |
| Trinity                    | Monster<br>Horsepower<br>Part #<br>TEP 1501 "M"        | HORSEPOWER 13.5T TREMITY      | Sensored system. "Y" Wind. Green 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 # TEP1118. Option Rotor # TEP1112.   | 14.11.16             |
| Orion                      | Vortex<br>VST2 Pro.<br>Mg. LW<br>(2016)<br># ORI28330  |                               | 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 41476 Option rotor: ORI 41517  | 24.10.16             |
| Team<br>Powers             | Actinium<br>Pt. # TPBLM<br>135100 ACT-<br>V2           | 13.5                          | Sensored system. "Y" Wind. Black Aluminium Sleeves & End-<br>Plates. Stator with wind etched & visable. Nickel sintered rotor<br>with no balance ring. Has stator access.<br>(UK Spec. label not mandatory).<br>Rotor with name, Part # TP125G-R  | 24.10.16             |
| Corally                    | Dynospeed<br>Spec. 3.0<br>Part #<br>C-61101            | TAN-THE MESTAGES              | Sensored system, two ports. "Y" Wind. One end of stator visable but stator removes. Wind etched on End-Cap. End-Cap Alum., adjustable timing, no numbers. Rotor with logo, Part # 61130   | 08.08.16             |
| Tesla                      | Tesla<br>EP<br>Part #<br>TS-194135T-S                  | S PEC 13.51                   | 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  | 18.07.16             |

| Motiv     | M Code<br>Part #<br>MOV10305S                   | MCDDE<br>13.5  | 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   | 18.07.16             |
|-----------|---|--|--|----------------------|
| Fantom    | Fantom<br>FR-1<br>Type M<br>Pt. #<br>FAN19480S  | TYPE M   | 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.   | 18.07.16<br>05.12.16 |
| Fantom    | Fantom<br>FR-1<br>Type RS<br>Pt. #<br>FAN19481S | Finani<br>(a.s.  | 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.   | 18.07.16<br>05.12.16 |
| Ruddog    | Ruddog<br>RP540<br>Part #<br>RP-0013            | 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 visable on stator.  Rotor Part # RP-12.5-7.2   | 30.05.16             |
| Fenix     | Fenix<br>DFV2-13.5<br>Pt. #<br>FM00135-2        | FENIX  | 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 # MF72-B Option rotor: MF72  | 19.05.16             |
| Tekin     | Redline<br>Gen3<br>Part # TT2707                | EENE 43.5T   | Sensored system. "Y" Wind. Black Alum. Timing plate 2.5mm above red ring Adj. timing 0/60. Machined Alum. Can with wind printed. Stator visable via. slots. Rotor with one brass balance ring Part # 2721.  Option rotors: 2719, 2722  | 16.05.16             |
| Tekin     | Redline<br>Gen3<br>Part # TT2706<br>RPM         | ENR& 19.5T   | Sensored system. "Y" Wind. Black Alum. Timing plate 2.5mm above red ring Adj. timing 0/60. Machined Alum. Can with wind printed. Stator visable via. slots. Rotor with one brass balance ring Part # 2721. Option rotors: 2719, 2722   | 16.05.16             |
| Fenix     | Fenix<br>DFV-13.5<br>Pt. #<br>FM00135           | FERIX<br>AFV-13,5  | Sensored system. "Y" Wind. Black Alu. Can & End-Caps. Timing insert with Fenix DFV etched. Nickel sintered rotor with one Alu. bal. ring. Adjustable timing +20/+ 60 deg. Lams.visible access with cap removed. Rotor Part # MF72.   | 18.01.16             |
| Hobbywing | Xerun<br>V10 G2<br>Pt # 30101107                | CONTROL OF THE PROPERTY OF THE | 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<br>12.12.16 |
| Turnigy   | Trackstar V2<br>Pt # 80134                      |  | 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             |
| Team Epic | ReVtech<br>24K<br>Pt # REV1801                  | 24/(-1)  | 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             |
| Reedy     | Reedy Sonic<br>M3<br>Part # 255                 |  | 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.   | 17.10.15             |

| Reedy             | Reedy Sonic<br>M3 - SS 1S<br>Part # 270   |   | 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.   | 17.10.15<br>15.05.17              |
|-------------------|---|---|---|-----------------------------------|
| G Force           | G Force<br>Super<br>Extreme<br>Pt # G0150 |   | 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 # GF400003-54 Option rotor G0045.  | 27.7.15                           |
| Motors I          | below this level                          | · •   | App.4, 4.8 & 4.9, which requires access to the stator to all appraisal of the laminates.  | allow                             |
| King Golden       | Speed Passion V4.0 13.5R #SP001231        | SPEED PASSION WORLD CHAPTER THE COMPETITION COMPETITION | 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                            |
| PRT<br>Electronic | PRT AIR 10<br>Part # A10135               | 13.57   | Sensored system. "Y" Wind. Black Alu. Caps & Sleeve, PRT on End-Plate. Nickel finish Rotor with Cyan Alu. balance ring, 12.5 dia, 7.2 core. Adjustable timing. Caps remove. Wind marked on sleeve. Has stator access. Rotor options:- PRT123RSHT Purple/Nickel. PRT125RS2 Grey/Nickel. PRT125RS Grey/Black. PRT123RS Purple/Black. Logo design updated.         | 19.01.15<br>14.08.15              |
| Hirosaka          | Hirosaka<br>Part #<br>HSK-<br>PRO135T     | 13.5 HIROSPIAN  | 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. Stator marked with wind  | 15.12.14                          |
| EZpower           | EZ Kicker<br>EZBR213R                     | KIGK FR   | 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.  | 17.11.14                          |
| Wurks             | Wurks<br>Part #<br>R1-135-125-V7          | 13.5 WURKS  | Sensored system. "Y" Wind. End-Plate with R1 Wurks etched. Stator sleeve with Wind painted. Nickel sintered rotor painted Black, no balance ring, 12.5 dia, 7.2 core. Adjustable sensor plate timing 0-60 deg. Has stator access. Single collector ring at 'pinion' end of stator.  Motors with Twin collector rings and/or epoxy filled windings not approved. | 27.10.14.<br>16.12.15<br>26.10.16 |
| Tianco            | ORCA RX3<br>Part #<br>OMR135X3            | MANUFACA MINISTER                                       | 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. Rotor Part # OTR124ST.  | 20.10.14 25.05.15                 |
| Team<br>Powers    | Actinium<br>Pt. # TPBLM<br>135100 ACT     |   | Sensored system. "Y" Wind. Black Aluminium End-Plates, Team Powers etched. Gun-Metal stator sleeve with 13.5T etched. Nickel sintered rotor with no balance ring, 12.45 dia, 7.23 core. Has stator access. Optional End-Plate TP-ATEB-001 allowed. Optional Rotor # TP125G-R.   | 20.10.14                          |
| Trinity           | D4<br>Part #<br>TEP 1701                  | 13.5  | 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<br>Part #<br>2130020           |   | 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                           |

| Reds Racing | VX<br>Part #<br>MTTE 0006                         | REDS<br>(S.ST) PACUTO<br>(C.Z. ROMS) | 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<br>06.07.16             |
|-------------|---|--------------------------------------|---|----------------------------------|
| G Force     | G Force<br>Super Sonic<br>Pt # G0008              | C B A SuresSaw                       | 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 G0045   | 07.04.14<br>27.07.15             |
| Hobbywing   | Xerun V10<br>Pt. #<br>30401020047                 | SINDORED STOCK                       | 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                           |
| Team Epic   | ReVtech<br>Killshot<br>Pt #<br>REV1601T           | 13.5°                                | Sensored system. "Y" Wind. Copper colour Aluminium End-<br>Plates, Revtech etched. Blue stator sleeve with ReVtech &<br>Wind painted. Nickel sintered rotor with one purple balance ring,<br>12.3 dia, 7.2 core. Adjustable sensor plate timing 0-80 deg.<br>Has stator access.<br>Optional rotor TEP 1112 approved.                  | 09.12.13                         |
| Team Epic   | ReVtech<br>Killshot<br>Pt #<br>REV1601R           | 13.5                                 | Sensored system. "Y" Wind. Copper colour Aluminium End-Plates, Revtech etched. 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 0-80 deg. Has stator access. Optional rotor TEP 1112 approved.                                  | 09.12.13                         |
| Novak       | Vulcan<br>Pt. # 3643                              | NA 13.5                              | Sensored system. "Y" Wind. Black Al. End-Plate with NOVAK etched. Stator sleeve with 13.5T label. 3/16 Bearing at Pinion end. Red plastic denoting 13.5. Adjustable timing. Nickel sint. Rotor Pt.# 5941 12.3, 7.1 core. Optional rotor Pt.# 5955 12.5 dia.   | 09.09.13                         |
| Mtroniks    | MX-1<br>Pt. #<br>MTMX135                          | BOUNDES STORE MYRONISS EIIIII        | 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 visable via. Sleeve slots.  | 5.8.13                           |
| Muchmore    | FLETA ZX<br>Pt #<br>MR-FZX135                     | 13.5 FLETAXX                         | 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 Blue drilled balance ring. Rotor 7.2 core, 12.3 dia.  Optional rotor MRFZR12 allowed.  | 29.07.13<br>14.05.14             |
| Nosram      | Pure 2<br>Evolution<br>Spec. Racing<br>Pt.# 91844 | 13.51                                | Aluminium timing-plate MR-FZAT fitted to later versions.  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 | 05.08.14<br>08.07.13<br>28.12.15 |
| Corally     | Corally Pro<br>Silver<br>13.5T<br>399135          | CORPLETE                             | 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, 12.4 dia, 7.18 core. Stator visable via. Sleeve slots. All red S/Print decal also OK.  | 17.6.13                          |
| Tianco      | ORCA TX<br>Pt. #<br>OTM 135TX                     |                                      | 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 rotor 123S-N. 12.3mm. Option EndPlate OME111TX allowed. New sensor Ass. CAS-0220TX-30 fitted.            | 10.06.13                         |
| LRP         | X20<br>13.5T Spec.<br># 50844                     | STOCK SPEC                           | 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.  | 20.07.14<br>22.04.13<br>28.12.15 |

| Tekin            | Redline<br>GEN2<br># TT2406<br>& TT2407                         |                       | Sensored system. "Y" Wind. Black Alum. End-Plates, not joined. Adj. timing. Alum. Can with wind etched. Stator visable via. Sleeve holes. Nickel sintered rotor with one brass balance ring. Rotor 7.14 core. 2406=12.25 dia. 2407=12.5 dia.                                  | 1.4.13     |
|------------------|---|-----------------------|---|------------|
| Team Wave        | Eclipse<br># TW2011-<br>135                                     | TEAM WAVE             | 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 visable via. Sleeve slots.   | 1.4.13     |
| Reedy            | Reedy Sonic<br>Mach 2<br># 233                                  | 3 13.5 <b>SONIC</b>   | 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.                                      | 25.3.13    |
| Savox            | Savox SX.1<br># SAV-<br>BLH3650<br>991757                       | 13.5 TURNS FIVER SPEC | 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<br>Stock 13.5.<br># ORI 28251                          |                       | 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 belov     |   |                       | oved before implementation of EFRA Rule App.4, 4.8 & 4.9, isal of laminates). Some motors do allow stator access.   | (requiring |
| Horizon<br>Hobby | Dynamite<br>Platinium<br>13.5T<br># DYP 1013                    |                       | 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, 7.2 core.                                   | 20.8.12    |
| Dualsky          | Track & Field<br>Z5 13.5T<br>Pt # 53651                         |                       | Sensored system. "Y" Wind. Silver Sleeve & Mounting-Plate. Z5, 13.5T, Track&Field etched on sleeve. Black Alu. End-Plate & retaining ring. Adjustable timing. Nickel sintered rotor with no balance ring, 12.5 dia, 7.2 core.   | 11.6.12    |
| Team Epic        | ReVtech<br>R-Power<br>Pt # REV1051                              | Re Vicech             | 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<br>Type AB+<br>Bloodline<br>Pt. #<br>VR-3135            |                       | Sensored system. "Y" Wind. Black Plastic End-Plate at Term. End, with adjustable timing. Sensor plug horizontal. Purple End plates. Wind etched. Nickel sintered rotor with no balance rings, 12.5 dia, 7.21 core.  | 12.3.12    |
| Graupner         | GM Brushless<br>PRO.<br>Pt. # 97413.<br>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   |
| Tekin            | Tekin<br>Redline<br>13.5T Spec.<br>Pt. # TT2252<br>(Etched Can) |                       | Sensored system. "Y" Wind. Red Aluminium mounting plate. Black moulded End-Bell with Tekin. Grooved Al. bonded stator sleeve with 13.5T etched. Nickle plated sintered rotor, 12.5 dia, 7.1 core. No balance rings.   | 17.10.11   |

| Thunder<br>Power | Z3R-S<br>Part #<br>TPM-540A135                        | THUNDER!   | 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<br>16.04.12 |
|------------------|---|--|---|----------------------|
| Reedy            | Reedy Sonic<br>Pt. # 942                              | F13.5 EXTENSE  | 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                   | 04.07.11             |
| Speed<br>Passion | Competition<br>3.0<br>MMM Version<br>Pt.#<br>SP000038 |  | pointer.  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, 12.3 dia, 7.2 core. Adjustable timing 11-20 deg.                            | 4.7.11               |
| Viper            | Viper VST<br>Pt. #<br>8VST 135001                     | Marie 15   | Sensored system. "Y" Wind. Red Aluminium End-Plates, VST & 13.5T 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<br>Pt. # 3613                               | NOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUSE<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVAL<br>EXACUS<br>TENOVA<br>EXACUS<br>TENOVA<br>EXACUS<br>TENOVA<br>EXACUS<br>TENOVA<br>EXACUS<br>TENOVA<br>EXACUS<br>TENOVA<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EXACUS<br>EX | Sensored system. "Y" Wind. Black Al. End-Plate with NOVAK etched. Stator sleeve with 13.5T label. Ring etched. Nickel plated sintered rotor, 12.3 dia, 7.12 core. Red plastic denoting 13.5. Adjustable timing. Vented End-Bells # 5925 approved.   | 11.04.11<br>18.06.12 |
| Team<br>Powers   | Plutonium Pt.# TP-BLM- 135100PL                       | 18:  | Sensored system. "Y" Wind. Black Aluminium End-Plates, Team Powers etched. Gun-Metal stator sleeve with 13.5T etched. Nickel sintered rotor with no balance ring, 12.23 dia, 7.24 core. Adjustable sensor plate timing. Optional End-Plate TP-ATEB-001 allowed.                                 | 11.04.11             |
| HPI              | Flux Pro.<br>Pt. # 101732                             | C B A 13.5T  | 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             |
| Hobbywing        | Xerun<br>Pt. #<br>90040120                            | AMELINO DE SER LA COMPANION DE   | Sensored system. "Y" Wind. Polished Auminium End-Plates, Hobbywing etched. Fixed timing. Blue stator sleeve with 13.5T & Pt.# etched. Sleeve & EndPlates also Gunmeteal colour. Side entry sensor plug. Nickel sintered rotor, 12.4 dia, 7.2 core. Rotor with one balancing ring.               | 12.2.11              |
| Graupner         | GM Brushless<br>PRO.<br>Pt.# 97353<br>2011 version.   | S 51 353 353 353 353 353 353 353 353 353   | Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, GM-Racing etched. 5 timing threads. Gun-Metal stator sleeve with S13.5T & 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<br>Pt. #<br>OBM135X2                         | ORCA<br>CCZ A SWIPM  | Sensored system. "Y" Wind. Gun-Metal End-Plates, RX2 & 13.5T etched. Gun-Metal sleeve with RX2 & 13.5T etched. Black rotor, one balance ring, 12.2 dia, 7.23 core. Optional rotor OMA123PX 12.2mm nickel. Adjustable sensor plate timing. Mounting Plate 3 x 6mm holes & chamfer.               | 31.01.11             |
| Trinity          | Trinity D3 Pt. # TEP1051                              | STEEL STEEL SOURCESCON OF OR THE   | Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, Trinity etched. Black stator sleeve with D3 & 13.5T etched. Nickel sintered rotor with one balance ring, 12.25 dia, 7.21 core. Adjustable sensor plate timing.   | 31.1.11              |
| Team<br>Powers   | Team Powers Brushless 13.5 Turns Pt. # TPBLM 135100   | 13.5<br>TURNS  | Sensored system. "Y" Wind. Black Aluminium End-Plates, Team Powers etched. 5 outer timing threads, 3 sensor mount threads. Black & Gold stator sleeves with 13.5T etched. Nickel plated sintered rotor, 12.3 dia, 7.24 core. No balancing rings.  | 10.10.10             |

| Graupner         | GM Brushless<br>PRO.<br>Pt.# 97294<br>2010 version.      | #397.294<br>#397.294<br>#397.294<br>#397.294<br>#397.294<br>#397.294<br>\$13.51 | Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, GM-Racing etched. 5 timing threads. Gun-Metal stator sleeve with S13.5T & Pt.# etched. Side entry sensor plug. Black sintered rotor, 12.3 dia, 7.22 core. Rotor with one balancing ring.  | 1.2.10                           |
|------------------|--|---|--|----------------------------------|
| LRP              | X12 Vector<br>Stock Spec.<br>Pt.# 50842                  | THE STOCKS PEC  | Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Sleeve etched "13.5 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<br>31.01.11<br>28.05.12 |
| Nosram           | Pure Evolution<br>Spec. Racing<br>Version.<br>Pt.# 91841 | TEG WWW.NOSRAM.COM  | Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Sleeve etched "13.5 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 90639 12.2, 7.1 core Later versions have rotor shaft stamped.   | 23.11.09<br>31.01.11<br>28.05.12 |
| LRP              | Vector X11<br>Stock Spec.<br>Pt. # 50840                 |   | Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Red anodised ring. Chamfered mounting face. Sleeve etched "13.5 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<br>Passion | 3.0 - 13.5R<br>Pt.#<br>SP138135V3                        | 13.5R   | Sensored system. "Y" Wind. Light Gun-Metal Aluminium End-<br>Plates, SP & 13.5T etched. Light Gun-Metal stator sleeve with<br>SP13.5T etched. Black sensor board. Black sintered rotor with<br>one balance ring, 12.3 dia, 7.22 core. Adjustable timing 0-10.  | 5.10.09                          |
| GM               | Brushless<br>PRO.<br>Pt.# 97294                          | 155 ( #97286   197286   197286   197286   197286   197288   197288   1972813    | Sensored system. "Y" Wind. Dark Gun-Metal Aluminium End-Plates, GM-Racing etched. Dark Gun-Metal stator sleeve with S13.5T & Pt.# etched. Black sintered rotor, 12.3 dia, 7.2 core. Rotor with one balancing ring.   | 5.10.09                          |
| Nosram           | Spec.'<br>Storm<br>Evolution<br>Pt. No. 91840            | TURIUS (105 RAM)  | Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Red anodised ring. Chamfered mounting face. Sleeve etched "13.5 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. | 1.12.08                          |
|                  |  |   | Paul Worsley. (EFRA Elec. Chairman). Last update   | e 01.07.19.                      |