

ARCHIVE - Brushless Motors. All Winds. 2024 v1

Includes: Motors Homologated in Years 2015 and Before. 25.08.24

EUROPEAN FEDERATION RADIO CONTROLLED AUTOMOBILES

Samples of Motors included on this list have been checked for compliance to EFRA Rules for:-Brushless Motors:- Modified, & 'Spec.' 10.5T, 13.5T, 17.5T, 21.5T.

Motors 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		RA rules, it is the responsibility of ALL competitors to ensity it is the responsibility of ALL competitors to ensity it all EFRA rules and requirements.	ure that the
INDEX:		ied. Pages 1 to 5 ': 10.5T Pages 5 to 10. 13.5T Pag	les 10 to 15. 17.5T Pages 15 to 20. 21.5T Pages 20 to 22.	
Motor Builder	Type/ Range	Illustration only	Notes	Approval Date
		MODIFIEI	D MOTORS	
		isal of the laminates. Also 4.9 & 4.12	4.8 (including 01.03.21 amendment) requiring access to stator 2 (including 01.03.21 amendment) which requires the Rotor to go & Part # on shaft.	
Reedy	Reedy Sonic M3		Sensored system. "Y" Wind. Black Alu. Cap & Sleeve, Alu. timing insert with 'R' logo. Adjustable sensor plate timing 0/+ 50 deg. Caps remove, some stators can be removed, some bonded. Wind etched on stator. Nickel sintered rotor with one Alu. balance ring. Rotor Part # 275. Two stator designs. Optional Rotors: # 274 & # 276. #s:- 271, 272, 273, 286, 296.	19.10.15 04.04.16 15.05.17
Team Orion	ORION VST2 XLW (2015)		Sensored system. "Y" Wind. Black one-piece Can. Black all Aluminium End-Plate retained with five screws, fixed timing. Wind etched. One sensor plug. Rotor - ORI 41470	5.10.15
Motors	below this level	* *	App.4, 4.8 & 4.9, which requires access to the stator to all appraisal of the laminates.	allow
Team Orion	VST2 Pro. LW (2014)		Sensored system. "Y" Wind. Grey one-piece Can. Black all Aluminium End-Plate retained with five screws, adjustable timing. Wind etched. Two sensor plugs. Nickel sintered rotor, 12.1 dia, 4.7 core.	30.3.15
EZpower	EZ Kicker	KICKER RACING SITNO FOR THE BOOK	Sensored system. "Y" Wind. Gun-metal End-Plates & Sleeve. Adjustable red timing ring. Nickel sintered rotor with Red hollow balance ring marked EZ, 12.4 dia, 5.0 core. Caps & sleeve remove, has stator access.	2.3.15
nVision	nVision R540		Sensored system. "Y" Wind. All metal End-Bell ass. with seperate timing ring. Adjustable timing +/- 10. Stator removes from sleeve. Nickel sintered rotor, no balance ring, 12.0 dia, 4.7 core. Caps & sleeve remove, has stator access.	15.12.14
Tianco	ORCA RX3	MACROS WILL GEOD	Sensored system. "Y" Wind. Black Can & E/Cap. Complete stator removes. Has stator access slots. ORCA RX3 & wind etched on End-Cap. End-Cap Alum., adjustable timing. 12.5mm Rotor black balance ring.	10.11.14
Team Powers	Actinium.		Sensored system. "Y" Wind. Black Aluminium End-Plates, Team Powers etched. Gun-Metal stator sleeve. Nickel sintered rotor with no balance ring, 12.45 dia, 5.0 core. Adjustable sensor plate timing. Has stator access. Optional End-Plate TP-ATEB-001 allowed	20.10.14

Trinity	D4	TRINITY N	Sensored system. "Y" Wind. Purple Alu. timing plate with TRINITY & 4 etched. Caps and sleeve dark gun-metal, all parts remove. Adjustable timing -10/+60. Has stator access. Nickel sintered rotor with one red balance ring, 12.5 dia, 5.0 core TEP1152. Option rotors: TEP1151, TEP1153.	29.09.14 05.12.16
King Golden	Speed Passion Competition V4.0	COMPETITION B.SR	Sensored system. "Y" Wind. Red Mounting plate, Black/Red Alu. End-Plate ass. Black stator sleeve with wind etched. Nickel sintered rotor with one Red balance ring, 12.5 dia, 5.0 core. Adjustable timing 0 -40 deg. Has stator access.	15.9.14
Absima	Revenge V2		Sensored system. "Y" Wind. Black Alu. Caps & Grey Sleeve, Logo only on End-Plate. Sintered rotor with one Alu. balance ring, 12.5 dia, 7.2 core. Sensor plate timing 0/+ 40 deg. Caps & sleeve remove, wind marked on stator. Only V2 version approved	30.6.14
SkyRC	Ares Pro.	SPRO 6.5	Sensored system. "Y" Wind. Grey Alu. Caps & Sleeve, Alu. timing insert with Ares printed. Nickel sintered rotor with one Alu. balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing 0/+ 40 deg. Caps & sleeve remove, wind etched on stator.	27.5.14
Reds Racing	VX	S.ST FIGURE	Sensored system. "Y" Wind. Red metal End-Plate at Term. End, with adjustable timing 0-45. Black Can/Sleeve. Stator separates & has wind etched. Rotor with Red drilled balance ring # MSTE0013. Optional rotors:- # MSTE0012, MSTE0014.	05.05.14 06.07.16
G Force	G Force Super Sonic	C B A	Sensored system. "Y" Wind. Black Alu. Caps & Sleeve, Alu. timing insert with logo printed. Nickel sintered rotor with one Alu. balance ring, 12.5 dia, 5 core. Adjustable sensor plate timing 0/+ 40 deg. Caps & sleeve remove, wind etched on stator.	21.4.14
Hacker	SKALAR 10	SKALAJ10	Sensored system. "Y" Wind. Black plastic timing plate, adjustable 0-45. Purple Can/Sleeve. Stator separates. Nickel sintered rotor with drilled balance ring.	17.3.14
Trinity	Trinity D3.5	Meditele	Sensored system. "Y" Wind. Purple Aluminium End-Plates with TRINITY etched. Black stator sleeve with D3.5 & wind. Nickel sintered rotor with one red balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing -30 + 40 deg. Has stator access	17.3.14
Hobbywing	Xerun V10	C VIII VIII VIII VIII VIII VIII VIII VI	Sensored system. "Y" Wind. Black Alu. Can & End-Cap, moulded timing insert with logo printed. Nickel sintered rotor with one Alu. fan balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing - 20/+ 50 deg. Stator and wind visible via. sleeve slots.	3.3.14
Yokomo	YOKOMO 'M' Series	Racing Performer	Sensored system. "Y" Wind. Black metal End-Bell at Term. End, with adjustable timing 0-50, spigoted into sleeve. Black Can/Sleeve. Stator separates. Nickel sintered rotor. 12.5 dia, 5.0 core.	21.10.13
Team Wave	Eclipse Mod.	GCLIPSE 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, 5.0 core, marked 125-MT. Stator visable via. Sleeve slots.	21.10.13
Muchmore	FLETA ZX	4.5 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 drilled balance ring, shaft etched with rotor dia. Aluminium timing-plate MR-FZAT fitted to later versions.	24.06.13 05.08.14

Tianco	ORCA TX	OFICA A ST	Sensored system. "Y" Wind. Dull Grey Aluminium casings. Main sleeve removes, stator spigoted into fixed casing. Has stator access slots. ORCA TX & wind etched. End-Plate moulded, adjustable timing. Rotor no balance ring. Endplate OME111TX allowed. New sensor Ass. CAS-0220TX-30 fitted.	10.06.13 10.03.14 20.07.14
Team Orion	VST2 Pro. (2013)		Sensored system. "Y" Wind. Grey one-piece Can. Black all Aluminium End-Plate retained with five screws, adjustable timing. Wind etched. Two sensor plugs. Nickel sintered rotor, 12.1 dia, 4.5 core.	8.4.13
Vampire	Vampire V2 AB+	AMPIN SAME TO SAME THE SAME TH	Sensored system. "Y" Wind. Stator removes from Al. Can. Black Al. ring retaining plastic timing plate. Wind etched. Nickel sintered rotor(Gold Col.) with two solid balance rings, 12.5 dia, 7.25 core. Plastic timing plate & retaining ring modified. All aluminium timing & end-plate Ass. fitted.	08.04.13 21.10.13 20.07.14
Tekin	Redline GEN2	E CONTRACTOR OF THE PARTY OF TH	Sensored system. "Y" Wind. Black Alum. End-Plates, not joined. Adj. timing. Machined Alum. Can with wind etched. Stator visable via. Sleeve holes. Nickel sintered rotor with one brass balance ring.	1.4.13
Reedy	Reedy Sonic Mach 2	3 6.0 SONIC	Sensored system. "Y" Wind. Black metal End-Bell at Term. End, with adjustable timing 0-45. Black Can/Sleeve. Stator separates. Nickel sintered rotor with drilled balance ring Part # 958. Optional rotors:- # 957, # 987.	25.3.13
Savox	Savox SX.1	4.5 TURNS ROBUTED	Sensored system. "Y" Wind. Aluminium casings. Slot for stator access included. Main sleeve removes, stator spigoted into fixed casing. Saxox X1 & wind etched. End-Plate moulded, adjustable timing. Rotor has 1 balance ring.	25.3.13
Motors below			d before implementation of EFRA Rule App.4, 4.8 & 4.9, (requof laminates). Some motors do allow stator access.	iring access
Horizon Hobby	Dynamite Platinium		Sensored system. "Y" Wind. Black Alluminium End-Plate at Term. End, with adjustable timing. Wind etched on Term. Sleeve, Stator mould & Stator Lams. Stator separates. Nickel sintered rotor with drilled balance ring, 12.5 dia, 5.0 core.	20.8.12
Ansmann	Xirius	and the second	Sensored system. "Y" Wind. Black Plastic Moulding at Term. End, with adjustable timing. Silver Can with silver end cover, 3mm slots in both parts. Wind etched on stator. Stator separates. Nickel sintered rotor with solid balance ring, 12.5 dia, 5.0 core.	14.5.12
Nosram	Pure 2 Evolution		Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Fixed End-Sleeve etched with wind. Nickel Sintered rotor. Rotor shaft, Black. Many rotor options. Grey stator moulding	16.4.12
Dualsky	Track & Field Z5		Sensored system. "Y" Wind. Silver Sleeve & Mounting-Plate. Z5, Wind, Track&Field etched on sleeve. Black Alu. End-Plate & retaining ring. Adjustable timing 7 - 27 deg. Nickel sintered rotor with no balance ring, 12.5 dia, 7.2 core.	2.4.12
LRP	X20 Modified	Modified 1	Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Fixed End-Sleeve etched with wind. Nickel Sintered rotor. Rotor shaft, Black. Many rotor options. Grey stator moulding	12.3.12

Team Epic	ReVtech R-Power	Re Vitech I	Sensored system. "Y" Wind. Copper colour Aluminium End- Plates, ReVtech painted. Blue stator sleeve with ReVtech & Wind painted. Nickel sintered rotor with one red balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing. Mounting Plate with 3 x 5.9mm slots.	12.3.12
Thunder Power	Z3R-M	THINDER POWER POWER	Sensored system. "Y" Wind. Black Plastic Moulding at Term. End, with adjustable timing. Red Can/Sleeve with silver end cover, 6mm slots in both parts from 02.12. Wind etched on stator. Stator separates. Nickel sintered rotor with drilled balance ring, 12.5 dia, 5.0 core.	17.10.11 12.03.12
Speed	Competition 3.0 Std. Vers. 2012		Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, SP etched. Gun-Metal stator sleeve with Wind & 3.0 etched. Black sintered rotor with one	26.3.12
Passion	7.5T & 8.5T no Sleeve Vents.		balance ring, 12.5 dia, 5.0 core. Adjustable timing 0 -10 deg.	12.3.12
Graupner	GM Brushless PRO. 2012 version.	2 5.5T	Sensored system. "Y" Wind. Alum. Mounting-Plate with 3x5mm holes and 3 radiused slots. Plastic End-Cap with GM moulded. Adj. timing. Gun-Metal stator sleeve with Pt.# etched. Side entry sensor plug. Nickel rotor marked GM Race, 12.51 dia, 5.5 core.	31.12.11
Team Orion	VST Pro.	S.ST VSTIPRO/ INCOME TO THE PROPERTY OF THE PR	Sensored system. "Y" Wind. Grey one-piece Can. Grey End-Plate retained with four screws, adjustable timing. Wind etched. Nickel sintered rotor, 12.5 dia, 5.0 core. NOTE: Early versions without stator viewing slots are not approved.	22.8.11
Reedy	Reedy Sonic	9.5 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 pointer.	04.07.11 26.03.12
Speed Passion	Competition 3.0 MMM Version		Sensored system. "Y" Wind. Dark Gun-Metal Aluminium Sleeve & End-Plates, SP etched. Sleeve with Wind & MMM etched. End-Plates with grooves. Red sensor board. Black sintered rotor with one balance ring, 12.5 dia, 5.0 core. Adjustable timing 11-20 deg.	4.7.11
Vampire	Vampire Type AB+		Sensored system. "Y" Wind. Black Plastic End-Plate at Term. End, with adjustable timing. Sensor plug horizontal. Gun-metal finish mounting plate and sleeve (9.5 has Black Mounting Plate). Wind etched. Nickel sintered rotor with no balance rings, 12.5 dia, 7.00 core.	06.06.11 12.03.12
Ansmann	Ansmann Xirius Pro	6.5T	Sensored system. "Y" Wind. Black Aluminium End-Caps, Wind etched. Black loose stator sleeve. Nickel sintered rotor with no balance rings, 12.5 dia, 7.25 core. Fixed timing.	23.5.11
Viper	Viper VST		Sensored system. "Y" Wind. Red Aluminium End-Plates, VST & wind etched. Black grooved stator sleeve. Black sintered rotor with no balance rings, 12.25 dia, 7.35 core. Adjustable timing.	16.5.11
HPI	Flux Pro.	8.51 8.51 7.LLX 700	Sensored system. "Y" Wind. Black Aluminium End-Plates, HPI etched. Black stator sleeve with Wind etched. Nickel sintered rotor, 12.5 dia, 7.2 core. Adjustable timing. Optional rotors - 12.2, 12.8, (Nickel plated) 13.0, 13.5 (Copper finish). Optional rotor 107252 - Mag. & shaft Black.	28.03.11

Speed Passion	Competition 3.0 1Cell	Sp. 70	Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, SP etched. Gun-Metal stator sleeve with Wind & 1Cell etched. Black sintered rotor with one balance ring, 12.5 dia, 5.0 core. Adjustable timing 0 - 10 deg.	31.1.11	
Tianco	ORCA RX2	ORCA ORCA	Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, ORCA RX2 etched. Gun-Metal stator sleeve with ORCA RX2 & Wind etched. Black sintered rotor with one balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing. Mounting Plate with 3 x 6mm holes & chamfer. Op.Rotor 12.8 dia, 5.0 core.	31.01.11	
Trinity	Trinity D3	THE STATE OF THE PROPERTY OF T	Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, Trinity etched. Black stator sleeve with D3 & Wind etched. Nickel sintered rotor with one balance ring, 12.5 dia, 5.0 core. Adjustable sensor plate timing.	31.1.11	
Team Orion	Vortex Pro Race 2009		Sensored system. "Y" Wind. Dark Gun-Metal Aluminium End-Plate with TOP etched. Dark Gun-Metal loose centre sleeve. Wind etched on Term sleeve. Mounting face with radial grooves, mounting screws on 25.0 & 25.4 pcd. Nickel sintered rotor, no fan. 12.5 dia. Adjustable timing.	23.11.09	
Novak	Ballistic	THE STATE OF THE S	Sensored system. "Y" Wind. Black Al. End-Plate with NOVAK etched. Copper colour loose centre sleeve. Nickel plated sintered rotor. 3/16 Bearing at Pinion end. Stator can be seperated. Adjustable timing. Vented End-Bells # 5925 approved.	01.06.09	
	10.5T MOTORS				
	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.				

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.				
Team Epic	ReVtech 24K Pt # REV1800	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 14.11.16	
Reedy	Reedy Sonic M3 Part # 256		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 15.05.17	
Motors	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 10.5R #SP001230	SPEED MASSION WINE ONLY BENE COMPETITION DO.SR	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 Electronic	PRT AIR 10 Part # A10105	T6.0FT	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.	19.01.15	
			Logo design updated.	14.08.15	

Hirosaka	Hirosaka Part # HSK- PRO105T	10.5 HINDERKE	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 EZBR210R	KII A SER	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
Tianco	ORCA RX3 Part # OMR105X3	TANDROA MARIANA	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	15.09.14 25.05.15
Trinity	D4 Part # TEP 1700	TRINITY D	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	15.9.14
Absima	Revenge V2 Part # 2130019		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	2.7.14
Reds Racing	VX Pt. # MTTE0005	DE PROCESSO	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 rotor:-# MSTE0009, MSTE0016	27.05.14 06.07.16
G Force	G Force Super Sonic Pt # G0007	C B A StreetStreet StreetStreet	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 GF400003-54	17.04.14 27.07.15
Team Epic	ReVtech Killshot Pt # REV1600. (Std. Ver.)	10.5°	Sensored system. "Y" Wind. End-Plate with Revtech etched. Stator sleeve with ReVtech & Wind painted, later versions not depicted with 't' 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.	15.03.14 23.10.14
Hobbywing	Xerun V10 Pt. # 30401020046	MODEL WITHOUT THE PROPERTY OF THE PROPERTY STOCK AND ADDRESS OF THE PROPERTY O	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. (NOTE: early versions may not comply with stator access requirements).	6.1.14
Mtroniks	MX-1 Pt. # MTMX105	INPASILI MINDHIME THE TOSTURNS	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.	6.1.14
Muchmore	FLETA ZX Pt # MR-FZX105	10.5 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. Aluminium timing-plate MR-FZAT fitted to later versions.	29.07.13 05.08.14
Nosram	Pure 2 Evolution Spec. Racing Pt.# 91834	10.51	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 Wave	Eclipse # TW2011-105	CCLIPES Franciscos Investor Nove TEAM WAVE TO.51	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.	24.6.13
Tianco	ORCA TX Pt. # OTM 105TX		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.	17.06.13 10.03.14 20.07.14
Corally	Corally Pro Silver 10.5T 399105		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. Also supplied with all Red S/Print decal.	17.6.13
LRP	X20 10.5T Spec. # 50834	SPEC SPEC SPEC SPEC SPEC SPEC SPEC 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.	22.04.13 28.12.15
Tekin	Redline GEN2 10.5T # TT2399		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, 12.5 dia	1.4.13
Reedy	Reedy Sonic Mach 2 # 234	10.5 SONIC.	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 # SAV- BLH3650 991740	10.5 TURNS	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 10.5. # ORI 28250		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.	15.2.13
			ation of EFRA Rule - App.4, 4.8 & 4.9, which requires a stator laminates. (Some versions do allow stator acce	
Horizon Hobby	Dynamite Platinium 10.5T # DYP 1010	10.ST MODES	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
Hobbywing	Xerun Pt. # 90040091		Sensored system. "Y" Wind. Polished Auminium End-Plates, Hobbywing etched. Fixed timing. Blue stator sleeve with 10.5T & 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.	13.8.12
Orion	Vortex VST Pro Stock 10.5. # ORI 28233	TO ST.	Sensored system. "Y" Wind. Grey one-piece Can. Grey End-Plate retained with four screws, adjustable timing. Wind etched. Nickel sintered rotor, 12.5 dia, 7.2 core, no balance rings.	16.4.12

Dualsky	Track & Field Z5 10.5T Pt # 53649	GIRUSHLE SS — JOS Turn	Sensored system. "Y" Wind. Silver Sleeve & Mounting-Plate. Z5, 10.5T, Track&Field etched on sleeve. Black Alu. End-Plate & retaining ring. Adjustable timing 7 - 27 deg. Nickel sintered rotor with no balance ring, 12.5 dia, 7.2 core.	16.4.12
Team Epic	ReVtech R-Power Pt # REV1050	Re Vicechi	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-3105		Sensored system. "Y" Wind. Black Plastic End-Plate at Term. End, with adjustable timing. Sensor plug horizontal. Light-Red 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. # 97410. 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-540A105	SOL-TY LONGER A	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.
Reedy	Reedy Sonic Pt. # 943	10.5 REPORT	Sensored system. "Y" Wind. Black Plastic End-Plate at Term. End, with adjustable timing. Black Can/Sleeve. Wind etched. Stator separates. Nickel sintered rotor with drilled balance ring, 12.5 dia, 7.2 core. Later version has more timing graduations detailed & relocated pointer.	04.07.11
Speed Passion	Competition 3.0 MMM Version Pt.# SP000037		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
Team Powers	Plutonium Pt.# TP-BLM- 105100PL		Sensored system. "Y" Wind. Black Aluminium End-Plates, Team Powers etched. Gun-Metal stator sleeve with 10.5T etched. Nickel sintered rotor with no balance ring, 12.32 dia, 7.28 core. Adjustable sensor plate timing.	16.5.11
Viper	Viper VST Pt. # 8VST 105001		Sensored system. "Y" Wind. Red Aluminium End-Plates, VST & 10.5T etched. Black grooved stator sleeve. Black sintered rotor with no balance rings, 12.5 dia, 7.35 core. Adjustable timing.	16.5.11
HPI	Flux Pro. Pt. # 101731	10.5T	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 07.05.12
PRT	PRT Lmited Edition. Pt.# PRT 2011 105HT DTM	LIMITED EDITION N:22	Sensored system. "Y" Wind. Black Aluminium End-Plates, PRT etched. Black stator sleeve with 10.5T etched. Black sintered rotor 12.4 dia, 7.20 core. Optional rotor 12.25 dia., 7.20 core Rotor with one balancing ring. Adjustable timing.	9.2.11
Graupner	GM Brushless PRO. Pt.# 97350 2011 version.	#97350 #97350 #97350 #97350 #97350 #97350 #97350 #97350	Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, GM-Racing etched. 5 timing threads. Gun-Metal stator sleeve with S10.5T & Pt.# etched. Side entry sensor plug. Black sintered rotor, 12.4 dia, 7.22 core. Rotor with one balancing ring.	31.1.11

Speed Passion	3.0 - 10.5R Pt.# SP1C105V3 1Cell	Speed 30	Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, SP & 10.5T etched. Gun-Metal stator sleeve with SP10.5T & 1Cell etched. Black sensor board. Black sintered rotor with one balance ring, 12.2 dia, 7.21 core. Adjustable timing 0-10.	31.1.11
Tianco	ORCA RX2 Pt. # OBM105X2		Sensored system. "Y" Wind. Gun-Metal End-Plates, RX2 & 10.5T etched. Gun-Metal sleeve with RX2 & 10.5T etched. Black rotor, one balance ring, 12.2 dia, 7.22 core. Adjustable sensor plate timing. Optional rotor OMA123PX 12.2mm nickel. Mounting Plate 3 x 6mm holes & chamfer.	31.01.11
Trinity	Trinity D3 Pt. # TEP1050	STORE	Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, Trinity etched. Black stator sleeve with D3 & 10.5T etched. Nickel sintered rotor with one balance ring, 12.3 dia, 7.22 core. Adjustable sensor plate timing.	31.1.11
Dualsky	Track & Field. Pt. # 53352	BUALSKY WIFIOSD Stock (6	Sensored system. "Y" Wind. Aluminium End-Plates plus Blue ring. Track & Field moulded on timing plate. Adjustable timing on sensor mounting. Stator sleeve with 10.5 etched. Nickel plated sintered rotor, 12.4 dia, 7.20 core with 21mm Al. fan.	14.6.10
Team Powers	Team Powers Brushless 10.5 Turns Pt. # TPBLM 105100	10.5 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 10.5T etched. Nickel plated sintered rotor, 12.3 dia, 7.22 core. No balancing rings.	12.4.10
Graupner	GM Brushless PRO. Pt.# 97290 2010 version.	#97290 (A C C C C C C C C C C C C C C C C C C C	Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, GM-Racing etched. 5 timing threads. Gun-Metal stator sleeve with S10.5T & 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 Stock Spec. Pt.# 50832	StockSpec	Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Sleeve etched "10.5 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
Nosram	Pure Evolution Spec. Racing Version. Pt.# 91831	CANAGARIAN COMMA	Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Sleeve etched "10.5 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
Speed Passion	3.0 - 10.5R Pt.# SP138105V3	TO.5R	Sensored system. "Y" Wind. Light Gun-Metal Aluminium End-Plates, SP & 10.5T etched. Light Gun-Metal stator sleeve with SP10.5T etched. Black sensor board. Black sintered rotor with one balance ring, 12.3 dia, 7.22 core. Adjustable timing 0-10.	5.10.09
Novak	Ballistic Pt. # 3610	MONAL STATES	Sensored system. "Y" Wind. Black Al. End-Plate with NOVAK etched. Stator sleeve with 10.5T label. Nickel plated sintered rotor, 12.3 dia, 7.22 core. 3/16 Bearing at Pinion end. Blue plastic denoting 10.5. Adjustable timing. Vented End-bells # 5925 approved.	07.09.09
WAVE	WAVE Linear Pt.# TW2001-105	C C C C C C C C C C C C C C C C C C C	Sensored system. "Y" Wind. Black Aluminium End-Plates with SP etched under label. Black stator sleeve with 10.5T etched. Black sintered rotor, 12.3 dia, 7.22 core. Rotor with one balancing ring.	16.3.09

Graupner	GM Brushless PRO. Pt.# 97290	\$10.51	Sensored system. "Y" Wind. Dark Gun-Metal Aluminium End-Plates, GM-Racing etched. Dark Gun-Metal stator sleeve with S10.5T & Pt.# etched. Black sintered rotor, 12.3 dia, 7.22 core. Rotor with one balancing ring.	2.3.09
Tekin	Tekin Redline 10.5T Spec. Pt. # TT2253 (Etched Can)		Sensored system. "Y" Wind. Red Aluminium mounting plate. Black moulded End-Bell with Tekin. Grooved Al. bonded stator sleeve with 10.5T etched. Nickle plated sintered rotor, 12.5 dia, 7.26 core. No balance rings.	15.12.08
Speed Passion	Speed Passion Stock Pt. # SPF105	IO.5R	Sensored system. "Y" Wind. Black Aluminium End-Plates with SP 10.5T. Black stator sleeve with 10.5T engraved. Black sintered rotor, 12.3 dia, 7.25 core. Rotor with one balancing ring.	8.9.08
LRP	Vector X11 Stock Spec. Pt. # 50830	CRP VEETOR	Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Blue anodised ring. Chamfered mounting face. Sleeve etched "10.5 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.	09.06.08 19.07.08
Novak	SS Pro. Pt. # 3410	10.5	Sensored system. "Y" Wind. Black moulded End-Bell with NOVAK. Blue plastic ring. Mounting face with or without chamfer. Stator marked "10.5 Turns". Nickel Plt. Sintered rotor, 12.3 dia, 7.25 core. Rotor shaft with plain bevel at pinion end.	14.04.08 28.04.08
Nosram	Spec.' Storm Evolution Pt. # 91830		Sensored system. "Y" Wind. Black moulded End-Bell with XTEC. Blue anodised ring. Chamfered mounting face. Sleeve etched "10.5 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.	07.04.08. 19.07.08.

13.5T MOTORS

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.

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.						
Turnigy	Trackstar V2 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 24K 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 14.11.16			
Reedy	Reedy Sonic M3 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 15.05.17			

Reedy	Reedy Sonic M3 - SS 1S 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 15.05.17
G Force	G Force Super Extreme 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	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 Electronic	PRT AIR 10 Part # A10135	13.5T	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 14.08.15
Hirosaka	Hirosaka Part # HSK- PRO135T	13.5 HINOSOHA	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 EZBR213R	KIGKEK	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 Part # 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. 16.12.15 26.10.16
Tianco	ORCA RX3 Part # OMR135X3	COROLA MARKETA	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 Powers	Actinium Pt. # TPBLM 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 Part # TEP 1701	13.5 THINN TO 1	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 # 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 Part # MTTE 0006	SEEDS CEZ 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 06.07.16
G Force	G Force Super Sonic Pt # G0008	C B A	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 27.07.15
Hobbywing	Xerun V10 Pt. # 30401020047	C DIO MANAGEMENT DE LA CONTROL	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 Killshot Pt # REV1601T	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 07.04.14
Team Epic	ReVtech Killshot Pt # 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 07.04.14
Novak	Vulcan Pt. # 3643	AND SEL MANAGEMENT OF THE PROPERTY OF THE PROP	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 Pt. # MTMX135	DESCRIPTION OF THE STREET OF T	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 Pt # MR-FZX135	13.5 FLETALX	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. 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.# 91844	13.51	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
Corally	Corally Pro Silver 13.5T 399135		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 Pt. # 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 10.03.14 20.07.14
LRP	X20 13.5T Spec. # 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.	22.04.13 28.12.15

Tekin	Redline GEN2 # TT2406 & 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 # TW2011-135	ELIPER 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 Mach 2 # 233	3 13.5 SONIC	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 # SAV- BLH3650 991757	13.5 TURNS STORES	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 13.5. # 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 below			d before implementation of EFRA Rule App.4, 4.8 & 4.9, (requised for the following states). Some motors do allow stator access.	iring access
Horizon Hobby	Dynamite Platinium 13.5T # 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 Z5 13.5T 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 R-Power Pt # REV1051	Tive Average	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-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 PRO. Pt. # 97413. 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 Redline 13.5T Spec. Pt. # TT2252 (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 Power	Z3R-S Part # TPM-540A135	THURDER J. POWER	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
Reedy	Reedy Sonic Pt. # 942	13.5 EXTENTED	Sensored system. "Y" Wind. Black Plastic End-Plate at Term. End, with adjustable timing. Black Can/Sleeve. Wind etched. Stator separates. Nickel sintered rotor with drilled balance ring, 12.5 dia, 7.2 core. Later version has more timing graduations detailed & relocated pointer.	04.07.11
Speed Passion	Competition 3.0 MMM Version Pt.# SP000038		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 Pt. # 8VST 135001	May 5.5	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 Pt. # 3613	B.5 NOVAL	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 18.06.12
Team Powers	Plutonium Pt.# TP-BLM- 135100PL	Trust.	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. Pt. # 101732	C B A 13.57	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
Hobbywing	Xerun Pt. # 90040120	AND THE PROPERTY OF THE PARTY O	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 PRO. Pt.# 97353 2011 version.		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 Pt. # OBM135X2	OPCA CCI A PAUTRY	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	ESCALATORIA COLUMNIA DE COLUMN	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 Powers	Team Powers Brushless 13.5 Turns Pt. # TPBLM 135100		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 PRO. Pt.# 97294 2010 version.	\$97294 \$97294 \$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 Stock Spec. Pt.# 50842	StockSpec	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
Nosram	Pure Evolution Spec. Racing Version. Pt.# 91841	TRUE CONTRACTOR 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.	28.05.12 23.11.09 31.01.11 28.05.12
LRP	Vector X11 Stock Spec. 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 Passion	3.0 - 13.5R Pt.# SP138135V3	13.5 R	Sensored system. "Y" Wind. Light Gun-Metal Aluminium End- Plates, SP & 13.5T etched. Light Gun-Metal stator sleeve with SP13.5T etched. Black sensor board. Black sintered rotor with one balance ring, 12.3 dia, 7.22 core. Adjustable timing 0-10.	5.10.09
GM	Brushless PRO. Pt.# 97294	972 1855 (C #077284 #077284 #077284 #07284 #07284 #07284 #07213	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.' Storm Evolution Pt. No. 91840		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

17.5T MOTORS

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.

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.

Team Epic	ReVtech 24K Pt # REV1802	24K-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 14.11.16
Reedy	Reedy Sonic M3 Part # 254	Control of the Contro	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	12 STURN NATURE	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		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 17.5R #SP001232	SPEED PARSIEN WARDEN 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
EZpower	EZBR217R	INGS SE	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	17.5 MANAGEMENT TANKS OF THE PROPERTY OF THE P	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	ESOROA NUIVEAN	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	TRINITY	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	N.2 CIMIZET	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	STATE OF THE STATE	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
G Force	G Force Super Sonic Pt # G0009	C B A Summary of Summa	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	MODELYWING WARRIES TO ST SENSORE STOCK SENSORE 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
Novak	Vulcan Pt. # 3647	27/2 N	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
Mtroniks	MX-1 Pt. # MTMX175	TANDAS CONTROL OF THE STATE OF	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 Pt # MR-FZX175	17.5 FLETXX	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	TZ5	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	REVIECH 17.5	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 visable 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	TO STUCK. 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.	22.04.13
Reedy	Reedy Sonic Mach 2 # 232	2 17.5 STAILS	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	EGLIPSE 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.	8.4.13
Tekin	Redline GEN2 17.5T # TT2404 & TT2405	TEXTIN TO THE PARTY OF THE PART	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. 2404=12.25 dia. 2405=12.5 dia.	1.4.13
Savox	Savox SX.1 # SAV- BLH3650 991764	17.5 TUANE VIOLENTE	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	SC F	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			d before implementation of EFRA Rule App.4, 4.8 & 4.9, (required of laminates). Some motors do allow stator access.	iring access
Horizon Hobby	Dynamite Platinium 17.5T # DYP 1017		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
Hobbywing	Xerun Pt. # 90040141	Weather 17 FT	Sensored system. "Y" Wind. Polished Auminium End-Plates, Hobbywing etched. Fixed timing. Blue stator sleeve with 17.5T & 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.	13.8.12
Reedy	Reedy Sonic Pt. # 941	517.5 SONIC.	Sensored system. "Y" Wind. Black Plastic End-Plate at Term. End, with adjustable timing. Black Can/Sleeve. Wind etched. Stator separates. Nickel sintered rotor with drilled balance ring, 12.5 dia, 7.2 core. Later version has more timing graduations detailed & relocated pointer.	14.5.12
Team Epic	ReVtech R-Power Pt # REV1052	Re Atech	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.	#97417 #97417 ***********************************	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	THURDER	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	Now.	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	C B A 17.5T	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 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
Graupner	GM Brushless PRO. Pt.# 97357 2011 version.	97357 97357 97357 97357 97357 97357 97357 97357 97357 97357 97357 97357 97357 97357 97357 97357 97357 97357 97357	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	OBCA OFFICE OF THE PROPERTY OF	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	17.51 S 17.51	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	Wes Stackspec	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	17.5R	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
		24 ST	MOTORS	

21.5T MOTORS

Motors below this level must comply with EFRA Rules App.4:- 4.8 (including 01.03.21 amendment) requiring access to stator to allow

NOTE	: ALL MOTORS		.17, WERE HOMOLOGATED WITH MAGNETIC SCRE	ws
	Changing the		DED BEARINGS FITTED. or Part # stated and contravenes App.4 Rule 4.6.	
Team Epic	ReVtech 24K Pt # REV1803	24/(4)	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
Motors	below this level	• •	App.4, $4.8 \& 4.9$, which requires access to the stator to a all appraisal of the laminates.	allow
King Golden	Speed Passion V4.0 21.5R #SP001233	SPEED PASSION WORLD PLAN IN COMPANY TO COMPA	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
Tianco	ORCA RX3 Part # OMR215X3	TOPICA TITLESSA ()	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
Wurks	Wurks Part # R1-215-125-V7	21.5 WURKS	Sensored system. "Y" Wind. End-Plate with R1 Wurks etched. Stator sleeve with Wind painted. Nickel sintered rotor painted Black, no balance ring, 12.4 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 16.12.15. 26.10.16
Reds Racing	VX Part # MTTE 0008	RIAN PROPERTY OF STATE OF STAT	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	19.05.14 06.07.16
Team Epic	ReVtech Killshot Pt# REV1603R	21.5	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.	17.03.14 07.04.14
Hobbywing	Xerun V10 Pt. # 30401020049	MORRYWING WINDS ENERGY EXPERTS FOR A PARTITION AND A PARTITI	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

Muchmore	FLETA ZX Pt # MR-FZX215	21.5 FLETAX	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			
Team Wave	Eclipse # TW2011-215	ESLIPSE FRANKLISHE FOR THE PROPERTY OF THE PRO	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.	24.6.13			
Corally	Corally Pro Silver 21.5T 399215		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 visable via. Sleeve slots.	17.6.13			
Tianco	ORCA TX Pt. # OTM 215TX		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 21.5T Spec. # 50864	21.51 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.	22.04.13			
Tekin	Redline GEN2 21.5T # TT2402 & TT2403		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. 2402=12.25 dia. 2403=12.5 dia.	1.4.13			
Team Orion	VST2 Pro Stock 21.5. # ORI 28253	SC PIE	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.							
Hobbywing	Xerun Pt. # 90040151		Sensored system. "Y" Wind. Polished Auminium End-Plates, Hobbywing etched. Fixed timing. Blue stator sleeve with 21.5T & 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.	13.8.12			
Vampire	Vampire Type AB+ Bloodline Pt. # VR-3215		Sensored system. "Y" Wind. Black Plastic End-Plate at Term. End, with adjustable timing. Sensor plug horizontal. Green 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. # 97421. 2012 version.	#97421 ************************************	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-540A215	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. 16.04.12			

Speed Passion	Competition 3.0 MMM Version Pt.# SP000040		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 Pt. # 8VST 215001		Sensored system. "Y" Wind. Red Aluminium End-Plates, VST & 21.5T etched. Black grooved stator sleeve. Black sintered rotor with no balance rings, 12.5 dia, 7.35 core. Adjustable timing.	16.5.11		
Tekin	Tekin Redline 21.5T Spec. Pt. # TT2250 (Etched Can)	216	Sensored system. "Y" Wind. Red Aluminium mounting plate. Black moulded End-Bell with Tekin. Grooved Al. bonded stator sleeve with 21.5T etched. Nickle plated sintered rotor, 12.4 dia, 7.11 core. No balance rings.	11.4.11		
HPI	Flux Pro. Pt. # 101734	21.5T	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 07.05.12		
Graupner	GM Brushless PRO. Pt.# 97361 2011 version.	\$736 \$9736 \$	Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, GM-Racing etched. 5 timing threads. Gun-Metal stator sleeve with S21.5T & Pt.# etched. Side entry sensor plug. Black sintered rotor, 12.4 dia, 7.21 core. Rotor with one balancing ring.	31.1.11		
Trinity	Trinity D3 Pt. # TEP1057	STUZZ	Sensored system. "Y" Wind. Gun-Metal Aluminium End-Plates, Trinity etched. Black stator sleeve with D3 & 21.5T etched. Nickel sintered rotor with one balance ring, 12.25 dia, 7.20 core. Adjustable sensor plate timing.	31.1.11		
Graupner	Brushless PRO. Pt. # 97301	#97301 #97301 CE SECRETARIA PORTOR OF THE PORTOR OF TH	Sensored system. "Y" Wind. Dark Gun-Metal Aluminium End-Plates, GM-Racing etched. 5 timing threads. Dark Gun-Metal stator sleeve with S21.5T & Pt.# etched. Side entry sensor plug. Black sintered rotor, 12.3 dia, 7.2 core. Rotor with one balancing ring.	21.12.09		
Speed Passion	3.0 - 21.5R Pt.# SP138215V3	21.5R	Sensored system. "Y" Wind. Light Gun-Metal Aluminium End- Plates, SP & 21.5T etched. Light Gun-Metal stator sleeve with SP21.5T etched. Black sensor board. Black sintered rotor with one balance ring, 12.3 dia, 7.22 core. Adjustable timing 0-10.	12.10.09		
Paul Worsley. (EFRA Brushless Motor Homologation Officer). Last update 25.08.24.						