Higer Inger



Ripper OBL 29 SERIES Brushless Motor **Instruction Manual** Product no. 2354 / 2355 / 2356 / 2357

Introduction

Congratulation on your choice of Thunder Tiger Ripper 29 series Outrunner Brushless Motor. Thunder Tiger Ripper out-runner motors are the ideal power upgrade for smaller 3D aerobats and flat foamies.

Thunder Tiger provides a brand new brushless motor to satisfy any your flying desire. Extremely high torque and power you have never seen. With the best mechanical design for cooling down the motor temp, you can get the best efficiency flying experience.

Thunder Tiger has been endeavored to set up a dream for each of modeler. A dream that every body can easily achieve no matter what age or property. More over, we always stand on the same side with customer to think about the requirement.

Features

 \cdot The perfect current capacity for long time flying · The most efficient RPM value

· The best mechanical design for cooling motor

· Light weight with the best performance

 \cdot The most completed package without any other purchases

· Dual ball bearings shaft support

 \cdot Strong Neodymium "rare earth" magnets for high output torque and one of the highest temperature ratings in R/C at 302 (150) for longer life

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	Specifications									
	Product name	OBL 2928/09	OBL 2928/07	OBL 2924/14	OBL 2924/11					
	Product no.	2354	2355	2356	2357					
	Voltage range	6~10 cells 3x Li-Poly	6~10 cells 3x Li-Poly	6~10 cells 2~3x Li-Poly	6~10 cells 2~3x Li-Poly					
	KV rating	920 RPM/V	750 RPM/V	1430 RPM/V	1100 RPM/V					
	Dimensions ø x L mm (in)	28.5x28.1 mm (1.12 x 1.11 in)	28.5x28.1 mm (1.12 x 1.11 in)	28.5x24.1 mm (1.12 x 0.95 in)	28.5x24.1 mm (1.12 x 0.95 in)					
	Shaft Diameter mm(in)	3.175mm (0.125 in)	3.175mm (0.125 in)	3.175mm (0.125 in)	3.175mm (0.125 in)					
	Max. efficiency current	6~14A	4~12A	6~15A	4~12A					
	Current capacity	17A/60s	14A/60s	17A/60s	14A/60s					
	Internal resistance	150m	210m	110m	180m					
	Propeller Recommended	APC 9*6 APC 10*4.7 APC 10*7	APC 10*7 APC 11*4.7 APC 11*7	APC 7*4 APC 7*5 APC 8*3.8	APC 8*3.8 APC 8*6 APC 9*6 APC 10*4.7					
	Weight	54g	54g	43g	43g					

ropeller	Battery	6cells	7cells	8cells	9cells	10cells	2S1P	3S1P
	Voltage	7.2	8.4	9.6	10.8	12	6.9	9.7
	Current(A)	6.2	7.6	9.1	10.5	11.9	5.6	8.9
10*7	RPM	3904	4649	4714	5049	5329	3711	4685
	P-IN(W)	44.6	63.8	87.4	113.4	142.8	38.6	86.3
	Voltage	7 3	8.4	9.6	10.8	12.0	6.9	0.0
	Curropt(A)	7.J	7.2	9.0	10.0	11 /	E 2	9.0 0 E
11*4.7		1000	1.2	0.0	TU.2	FE44	2025	0.J
	RPM	4008	4405	4861	5251	5564	3835	5073
	P-IN(W)	42.3	60.5	82.6	110.2	130.8	30.0	83.3
	Voltage	1.2	8.3	9.5	10.7	11.9	6.9	9.7
11*7	Current(A)	7.1	8.6	10.2	11.5	12.8	6.3	9.8
	RPM	3586	3964	4310	4539	4761	3379	4239
	P-IN(W)	51.1	71.4	96.9	123.1	152.3	43.5	95.1
ESC			ACE BLC	C-10 Re	ecommer	nded		
		P	inner (DBL 20	024/14	1		
opellor	Batton	6colle	7 colle	8 colle	9 colle	10colle	2S1P	3S1P
opener	Voltore	ocells	A Cells	ocells	10 (11.7	Li-Poly	Li-Poly
	voitage	1.2	8.3	9.5	10.6	11.7	6.9	9.6
7*4	Current(A)	6.2	7.8	9.5	11.3	13.1	5.7	9.6
	RPM	8372	9375	10286	11125	11862	8037	10329
	P-IN(W)	44.8	64.7	89.9	119.1	152.5	39.4	92.0
	Voltage	7.2	8.3	9.4	10.6	11.7	6.8	9.6
7*5	Current(A)	6.8	8.4	10.1	11.9	13.7	6.3	10.2
, 0	RPM	8148	9141	10076	10949	11712	7821	10126
	P-IN(W)	49.0	69.7	94.9	126.1	160.3	42.8	97.9
	Voltage	7	8.1	9.2	10.4	\triangle	6.7	9.4
0*2.0	Current(A)	8.4	10.4	12.5	14.5	\triangle	7.6	12.5
0.3.0	RPM	7493	8292	9016	9650	\triangle	7187	9017
	P-IN(W)	58.8	84.2	115.0	150.8	\triangle	50.9	117.5
ESC			ACE BLO	C-10 R	ecomme	nded		
		R	ipper (DBL 29	24/11		0040	0040
opeller	Battery	6cells	7cells	8cells	9cells	10cells	2S1P Li-Poly	3S1P Li-Poly
	Voltage	7.3	8.5	9.7	10.8	12	7	9.8
*3.8	Current(A)	4.9	6.2	7.5	8.9	10.4	4.6	7.6
	RPM	6529	7319	8009	8664	9236	6267	8012
	P-IN(W)	35.8	52.7	72.8	96.1	124.8	32.2	74.5
	Voltage	7.1	8.3	9.4	10.6	\triangle	6.8	9.6
	Current(A)	7.1	8.7	10.4	12.1	\triangle	6.4	10.3
0*/		E400	6168	6670	7.61	\triangle	5335	6638
8*6	RPM	5023					43.5	98.9
8*6	RPM P-IN(W)	5023	72.2	97.8	128.3	<u> </u>		
8*6	RPM P-IN(W) Voltage	5023 50.4 7	72.2 8.1	97.8 9.3	128.3		6.7	9.4
8*6	RPM P-IN(W) Voltage Current(A)	50.4 7 8.4	72.2 8.1 10.1	97.8 9.3 11.9	128.3		6.7 7.5	9.4 11.8
9*6	RPM P-IN(W) Voltage Current(A) RPM	5023 50.4 7 8.4 5087	72.2 8.1 10.1 5511	97.8 9.3 11.9 5875	128.3		6.7 7.5 4810	9.4 11.8 5857
8*6 9*6	RPM P-IN(W) Voltage Current(A) RPM P-IN(W)	5023 50.4 7 8.4 5087 58.8	72.2 8.1 10.1 5511 81.8	97.8 9.3 11.9 5875 110.7	128.3 () () () () () () () () () ()		6.7 7.5 4810 50.3	9.4 11.8 5857 110.9
8*6 9*6	RPM P-IN(W) Voltage Current(A) RPM P-IN(W)	5023 50.4 7 8.4 5087 58.8 7	72.2 8.1 10.1 5511 81.8 8.1	97.8 9.3 11.9 5875 110.7	128.3		6.7 7.5 4810 50.3	9.4 11.8 5857 110.9
8*6 9*6	RPM P-IN(W) Voltage Current(A) RPM P-IN(W) Voltage	5023 50.4 7 8.4 5087 58.8 7 8.4	72.2 8.1 10.1 5511 81.8 8.1	97.8 9.3 11.9 5875 110.7 9.3	128.3 () () () () () () () () () ()		 6.7 7.5 4810 50.3 6.7 7.5 	9.4 11.8 5857 110.9 9.4
8*6 9*6 10*4.7	RPM P-IN(W) Voltage Current(A) RPM P-IN(W) Voltage Current(A)	5023 50.4 7 8.4 5087 58.8 7 8.6	 72.2 8.1 10.1 5511 81.8 8.1 10.4 	97.8 9.3 11.9 5875 110.7 9.3 12.1	128.3 (A) (A) (A) (A) (A) (A) (A) (A)		 6.7 7.5 4810 50.3 6.7 7.8 	9.4 11.8 5857 110.9 9.4 12.0
8*6 9*6 10*4.7	RPM P-IN(W) Voltage Current(A) RPM P-IN(W) Voltage Current(A) RPM	5023 50.4 7 8.4 5087 58.8 7 8.6 4926	72.2 8.1 10.1 5511 81.8 8.1 10.4 5366	97.8 9.3 11.9 5875 110.7 9.3 12.1 5738	128.3 (A) (A) (A) (A) (A) (A) (A) (A)		 6.7 7.5 4810 50.3 6.7 7.8 4679 	9.4 11.8 5857 110.9 9.4 12.0 5698
8*6 9*6 0*4.7	RPM P-IN(W) Voltage Current(A) RPM Voltage Current(A) RPM P-IN(W)	5023 50.4 7 8.4 5087 58.8 7 8.6 4926 60.2	72.2 8.1 10.1 5511 81.8 8.1 10.4 5366 84.2	97.8 9.3 11.9 5875 110.7 9.3 12.1 5738 112.5	128.3 (A) (A) (A) (A) (A) (A) (A) (A)		 6.7 7.5 4810 50.3 6.7 7.8 4679 52.3 	9.4 11.8 5857 110.9 9.4 12.0 5698 112.8

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If you have some other question about the care and maintenance, please contact the local distribution for advanced assistance.

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Do NOT attempt to use Ripper motors with an ESC that is designed for traditional brushed motors as permanent damage

Unlike the brushed motor, Ripper brushless motor does not require break-in, replacement or cleaning of internal parts. After flying, clean the dust with compressed air first if necessary. While installation, be ware of screws or other small items have been attracted to the magnets of your

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Ripper OBL 2928/09									
Propeller	Battery	6cells	7cells	8cells	9cells	10cells	2S1P Li-Poly	3S1P Li-Poly	
9*6	Voltage	7.2	8.3	9.4	10.6	11.7	6.8	9.6	
	Current(A)	7.2	9.0	10.9	12.8	14.5	6.5	10.7	
	RPM	5043	5603	6099	5626	6891	4811	6075	
	P-IN(W)	51.8	74.7	102.5	135.7	169.7	44.2	102.7	
10*4.7	Voltage	7.1	8.3	9.4	10.5	11.7	6.8	9.5	
	Current(A)	7.5	9.3	11.1	13.0	14.7	6.8	11.0	
	RPM	4925	5468	5967	6424	6807	4678	5949	
	P-IN(W)	53.3	77.2	104.3	136.5	172.0	46.2	104.5	
10*7	Voltage	7	8.1	9.2	\triangle	\triangle	6.6	9.3	
	Current(A)	9.4	11.5	13.5	\triangle	\triangle	8.5	13.5	
	RPM	4364	4804	5186	\triangle	\triangle	4173	5183	
	P-IN(W)	65.8	93.2	124.2	\triangle	\triangle	56.1	125.6	
ESC		ACE BLC-10 Recommended							

Task Mater

3. Different brand of ESC and propeller will also cause difference efficence.

Contents

· Instruction munual x 1

 \cdot Ripper 29 series outrunner brushless motor x 1 · Mounting plate x 1

· Prop adapter x 1

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· Prop Nut x 1

· Acessory package x 1

· L type hex wrench x 2 (ø1.5 & 2 mm)

Installation

Refer to your model instruction manual for mounting the Ripper motor on your model. There are two practical mounting options: motor in the front (Type A) or motor behind the firewall (Type B).

Apply the template to mark the locations of the mounting holes.

Install the propeller on the prop-adapter first before put the nut on.

Each motor has two different sets of mounting holes as shown in the diagram below. One set of mounting holes is spaced 16.0mm apart, the other one is 19mm apart. All require fine threaded machine screws which are 3mm in diameter.

the specifications above

Double check if the ESC current lim

battery selection.

instruction.

CAUTION

Do NOT make the positive and negative wires to touch each other while power is applied.

In case of accidentally coming loose of motor, do make sure the motor is mounted firmly on the firewall before motor rotating. Do follow the voltage range shown on the specifications above for

Do NOT fly in rain or get water or moisture into the motor. It might cause the permanent damage for the motor and ESC.

Do NOT try to touch the rotating case or shaft, it might cause you physical injury.

Please stop to use the motor once you find any electrical or mechanical defective issue.

Safety Notes

Do double check if the propeller undamaged and balance well before installation. Be ware of the range of propeller rotating or it might be get serious injury. Secure the propeller on the adopter firmly tight before you switch it on, Propeller must be discarded once a crash or heavy landing cause potential internal stress or damage resulting in a failure later.

Before switch on your transmitter please make sure the throttle stick on a neutral position.

Direction of Rotation

Simply switch over any two cables between the motor and speed controller

Thank you for purchasing the Thunder Tiger Ripper 29 series brushless motor. Thunder Tiger strives to bring you the highest level of quality and service we can provide. We race and test our products around the world to bring you state-of-the-art items. Thunder Tiger guarantees that you should enjoy many hours of trouble free use from our R/C products.

Thunder Tiger products have been sold worldwide through the authorized distributors that are supported directly and rapidly from Thunder Tiger. You may find that Thunder Tiger is always pursuing to explore new items creatively with highest quality. To update the latest product information and to get the best technical support, please feel free to contact your local hobby shops or Thunder Tiger authorized distributor.

Manufactured by THUNDER TIGER CORP.

http://www.thundertiger.com

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