Skynetic®

A-1 SKYRAIDER & TEMPEST & F4U CORSAIR

Radio Control Model Airplane OPERATION MANUAL

A-1 SKYRAIDER

TEMPEST

F4U CORSAIR

MADE IN CHINA

CONTENTS

Statement:

1.Please read this manual carefully and follow the instructions before you use this product;

2.Your airplane is not a toy, and is only suitable for experienced fliers or under the guidance of an experienced pilot.

3.Not recommended for children under 14 years old.

4.Please adjust this plane according to the instructions and make sure that fingers and other parts of your body are out of the way of rotating parts of the plane,or it may cause damage to the plane or injury to your body.

5.Do not fly in a thunderstorm, strong winds or bad weather.

6.Never fly your plane where there are power lines overhead, automobiles, near an airdrome, railway or highway.

7.Never fly your plane where there are crowds of people .Give yourself plenty of room for flying, as the plane can fly at a high speed. Remember that you are responsible for others safety.

8.Do not attempt to catch the plane when you are flying it.

9.The user should bear full responsibility of proper operation and usage with regards to this model. We, Top Motionrc together with any distributor of ours will not be responsible for any liability or loss due to improper operation.

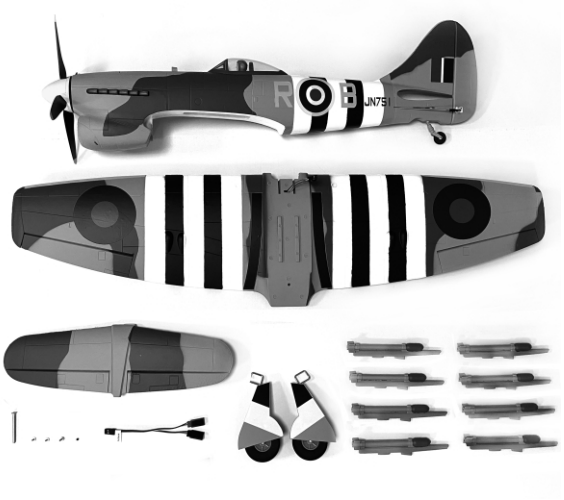
Thank you for choosing the remote control model airplanes, we hope that this aircraft will bring you endless fun.
This aircraft is with very stable flight and easy to control, it can finish the level flight and inverted flight fluently, it also can finish inside loops and outside loops, axial rolls and other aerobatic manoeuvre.
The scaled appearances and details give people strong visual impact.
With ball link connectors that it gives you a high precision control.
The efficient four-blade propeller and high torque brushless motor give you an outstanding flight experiences.

Product constitution

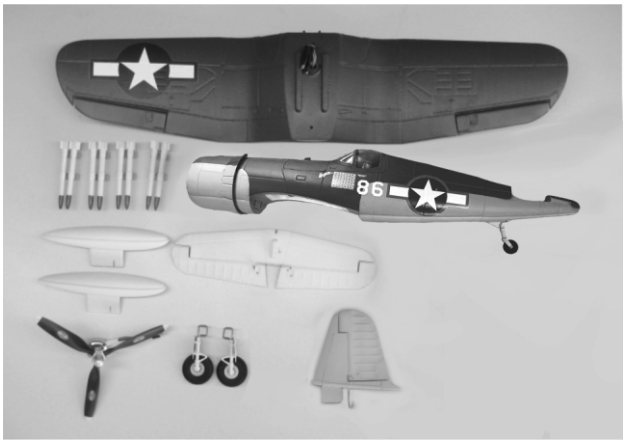
PNP version

Fuselage, Main Wings, Horizontal Wing, Main Landing Gear, Propellor, Bomb,Guided missile,Auxiliary Oil Tank, Accessory Bag.

A-1 SKYRAIDER



TEMPEST



F4U CORSAIR

Main specifications

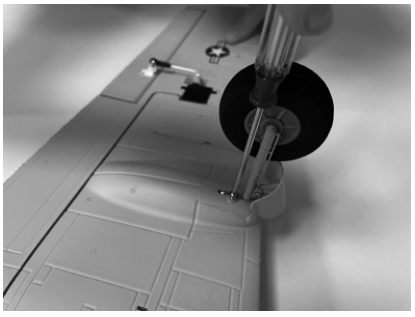
	A-1 Skyraider	Tempest	F4U Corsair
★ Wingspan	800mm/31.50inch	800mm/31.50inch	750mm/30.00inch
★ Length	625mm/24.60inch	678mm/26.70inch	610mm/24.02inch
★ Weight	455g	455g	420g
★ Thrust	≥450g	≥450g	≥450g
★ Motor	Skynetic Hollow Shaft DST-1200 Motor		DST-1300 Brushless Motor
★ ESC	20A Brushless ESC		
★ Servo	9g Plastic X 4		
★ Flying Time	≥5 min		

Required

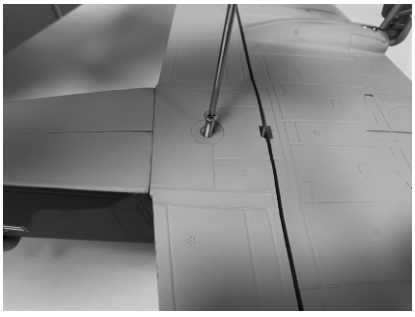
	A-1 Skyraider	Tempest	F4U Corsair
★ Radio system	4 + Channel		
★ Receiver	4 + Channel		
★ Battery	3 Cell 11.1V 1000mAh with JST connector		
★ Chager	4 Cell compatible battery charger		

Assemble processes(A-1 SKYRAIDER)

1. Assembly of the landing gear
Take out the main wing, two landing gears and 2pcs screws PWA2*8mm. Insert the two landing gears into the assembling slots at the bottom
of the main wing. Secure the main landing gears with the screw PWA2*8mm.



2.Assembly out the main wing.
Take of the fuselage& KM4*35MM screws Connect aileron servo wires, and install the main wing to the fuselage. Then lock
the main wings by screws(KM4*35MM).

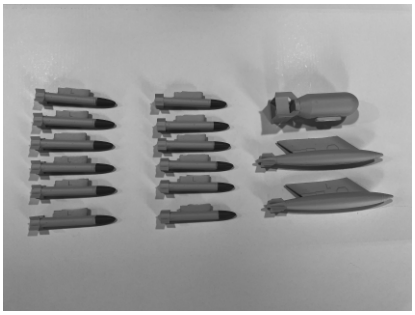


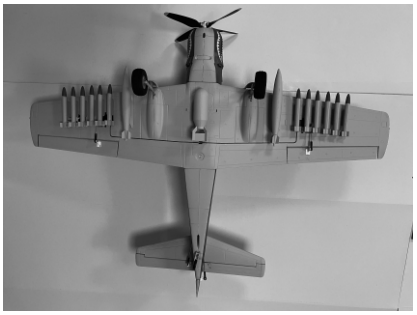
3.Assembly of the horizontal stab
Take of the horizontal stab and install it to fuselage, please make sure that the horizontal stab should be assembled to right place completely.

4.Assembly of the control horns Connect the control horns of rudder and elevator, and make sure the pushrod is at the outermost hole on control horns.

Assemble processes(A-1 SKYRAIDER)

5.Assembly of the scaled parts.
Take of the guided missile & bomb & auxiliary oil tank.Please classify the guided missile and bomb by left and right(left parts with number"L").Then install them to the appropriate place of main wing by EPO glue.

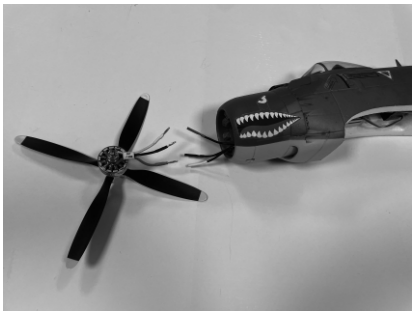




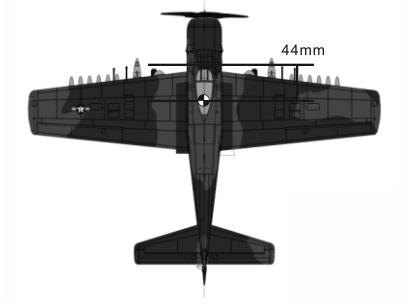
6.Assembly of the gun.
Please install the gun to the appropriate place at the leading edge of the main wing.

7.Finished the assembly of "A1 SkyRaider".

8.Motor replacement for A1-Skyraider
Firstly unlock the screw on the bottom of the fuselage in the nose, then plug out the motor from ESC. You can replace the motor easily.

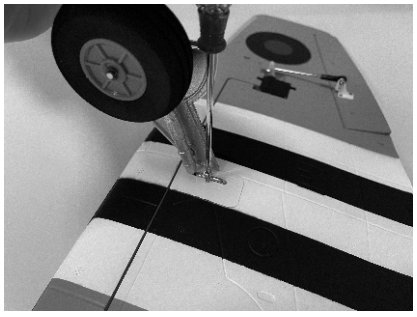


9.Check thecenter of gravity and make sure that the CG of the plane should be within the range as indicated by the arrows.

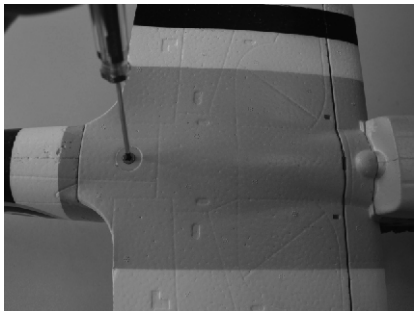


Assemble processes(TEMPEST)

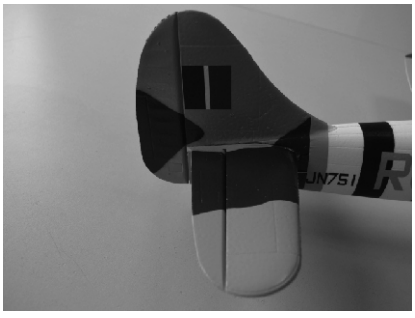
1.Assembly of the main landing gear.
Take of main wings & left and right landing gears & PWA2*8MM screws from the box. Install the landing gear to the assemble groove at the bottom of main wings (Please do not invert left and right landing gear), then lock the main landing gear by screws(PWA2*8MM)



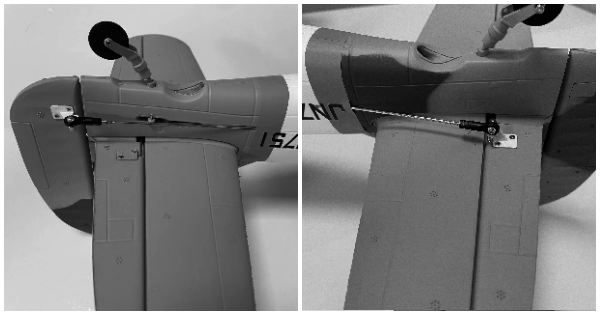
2.Assembly of the main wing.
Take of the main wing & KM4*45MM screws. Connect aileron servo wires, and install the main wing to the bottom of fuselage. Then lock the main wing by screws(KM4*45MM)



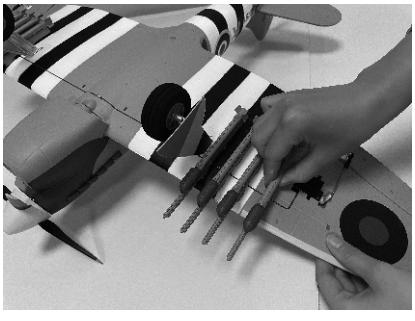
3. Take of the horizontal Stab and install it to fuselage, please make sure that the horizontal stab should be assembled to right place completely.



4. Assembly of the control horns
Connect the control horns of rudder and elevator, and make sure the pushrod is at the outermost hole on control horns.

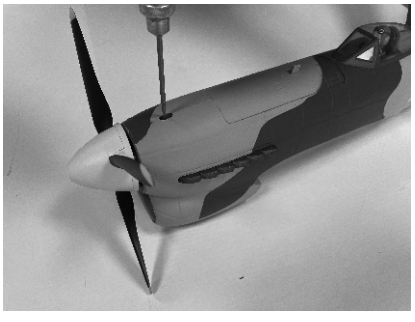


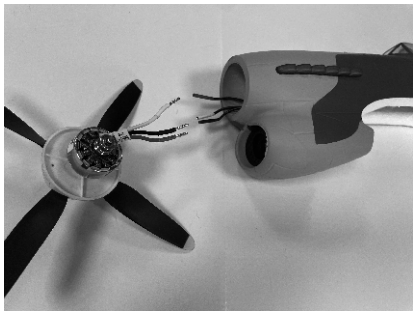
5. Assenbly of guided missile.
Take of the guided missile. Please install it to the appropriate place under the main win by EPO glue.



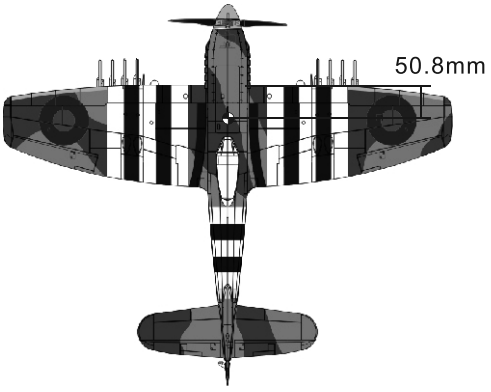
6. Finished the assembly of “Tempest”.

7. Motor replacement for Tempest
Firstly unlock the screw on the top of the fuselage in the nose, then plug out the motor from ESC. You can replace the motor easily.



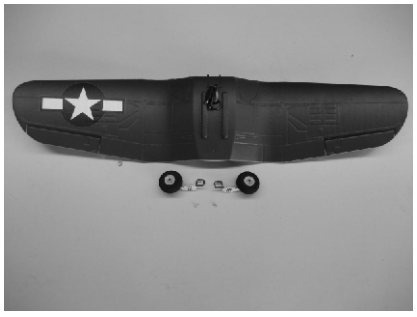


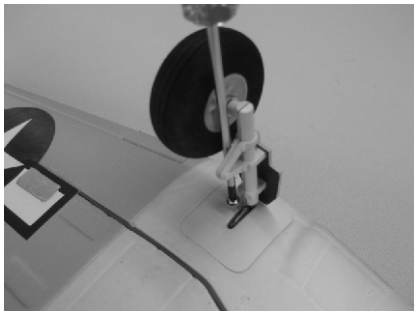
8. Check the center of gravity and make sure that the CG of the plane should be within the range as indicated by the arrows.



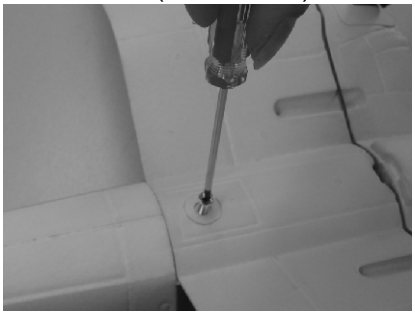
Assemble processes(F4U CORSAIR)

1.Take of the main wings& main landing gear& PWA2*8MM screws from the box. Please assemble the main landing gear into the slot under the main wings,and please do not make it reverse,then lock the main landing gear by PWA2*8MM screw.

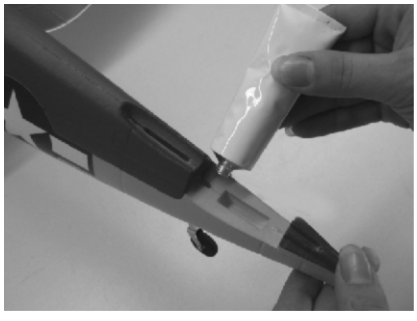




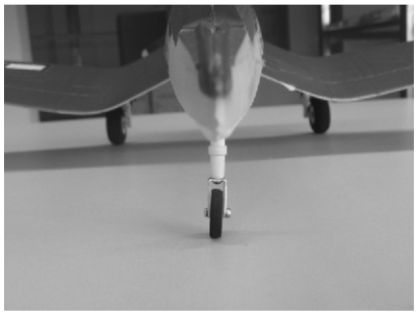
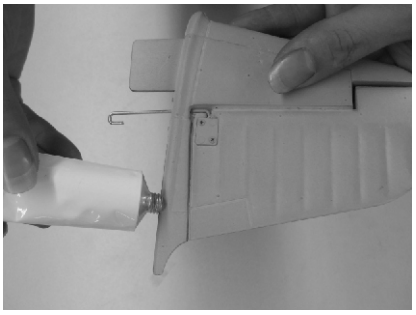
2.Take of the fuselage&KM4*35MM screw from the box and assemble the fuselage to the right place on the main wings, please use the screw(KM4*35MM) to lock it.



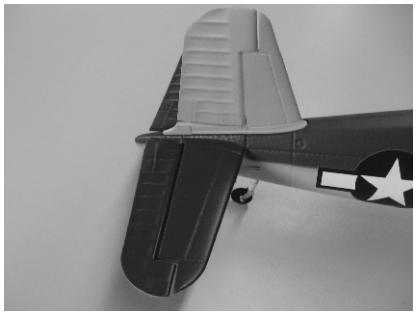
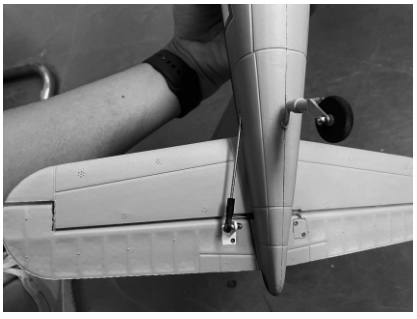
3.Add some glue to the slot of the fuselage and assemble the horizontal wing to the fuselage firmly



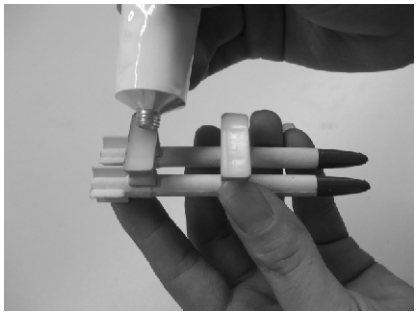
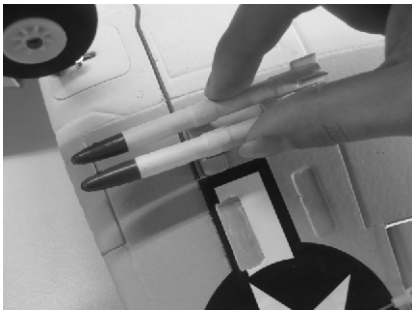
4.Please make sure that the tail wheel should be in the neutral position, and add some glue to the rudder surface .Make sure the U plug should be inserted into the U slot of the fuselage, then glue the vertical wing&horizontal wing&fuselage together.

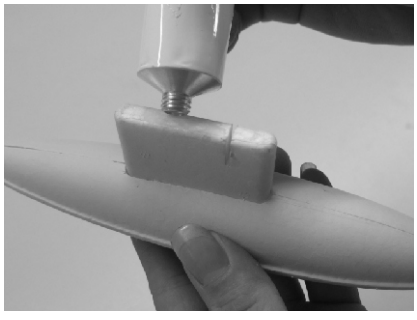
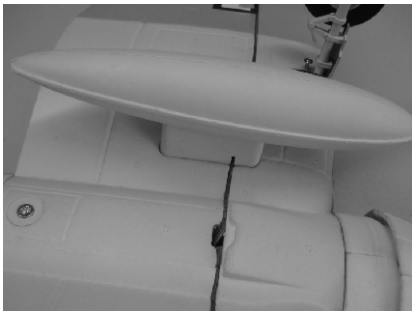

5. Glue the vertical wing and horizontal wing, and connect the elevator steel wire

6.Take of the guided missile&bracket set from the box, and add some glue to the bottom of the bracket, please glue it to the slot of the main wings.

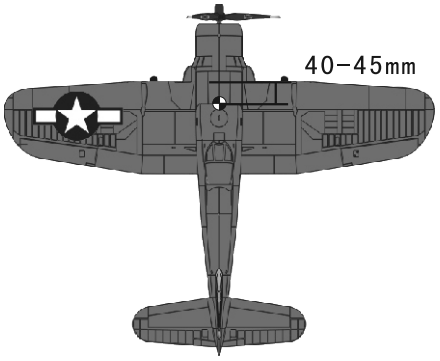



7.Take of the auxiliary oil tank and add some glue to its surface, please glue it to the slot of the back part of the main wings.

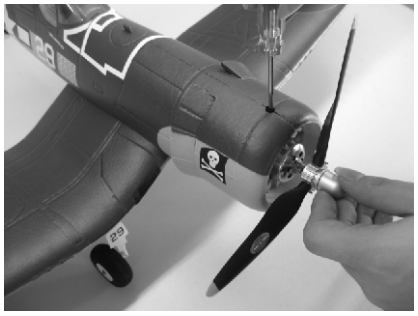



8. Finish the assembly of the “F4U CORSAIR”.

9.Check the center of gravity and make sure that the CG of the plane should be within the range as indicated by the arrows.



10.Motor replacement for F4U Corair
Firstly unlock the screw on the top of the fuselage in the nose,
then plug out the motor from ESC. You can replace the motor easily.



Safety precautions

1.If you have the simulator, we suggest that you can practise your skill by the simulator before you fly

2.Please climb the plane above the 50 meters with half throttle to fly it when you fly it for your first time,then you will be familiar with the performance of this plane.

3.You should learn how to control this model blandly, it will reduce the possibility of crash and prolongthe usage life of the plane.

4.The turn radius should not be too little, or it will stall and it will increase the possibility of crash.

5.When taking off or landing the plane, you should against the wind.

6.Do not fly the model over your head or behind you, you should fly the model in front of you.

8.Check the center of gravity and make sure that the CG of the plane should be within the range as indicated by the arrows.

Notification for ESC

1.The function of this ESC was in the best condition after factory setting; please do not change it by yourself.

2.Before connecting the battery, please make sure the throttle and trim were in the lowest position. If thethrottle and trim were not in the lowest position by mistake after connecting the battery, you can cut off the battery; move the throttle and push to the lowest position, then connect the battery.

3.The ESC of the airplane was in a good cooling position after factory assembly; please do not move its position.

4.The ESC should be connected to the brushlless motor correctly, otherwise the motor will be reversed turning,and the model airplane can not fly correctly.

Spare parts (A-1 SKYRAIDER)

No:SKY1064-100
A-1 Skyraider Fuselage

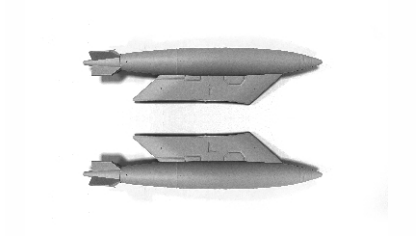
No:SKY1064-101
A-1 Skyraider Main Wings

No:SKY1064-102
A-1 Skyraider Horizontal Stab

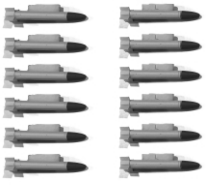
No:SKY1064-103
A-1 Skyraider Prop Hub

No:SKY1064-104
A-1 Skyraider Propeller

No:SKY1064-105
A- 1 Skyraider Bomb



No:SKY1064-106
A-1 Skyraider Brown Auxiliary Oil Tank



No:SKY1064-107
A-1 Skyraider Guided Missile

No:SKY1064-108
A1- Skyraider Main Landing Gear

No:SKY1064-109
A-1 Skyraider Pushrod Set

No:SKY1064-110
A1- Skyraider Screw Set

No:SKY5015-012
9g Servo with 150mm (5.9") Lead

No:SKY6003-015
20A Brushless ESC

No:SKY6000-025
Sky netic Hollow Shaft DST-1200 Motor

No:SKY5015-013
Sky netic 9g Servo with 250mm (9.8") Lead

Spare parts for TEMPEST

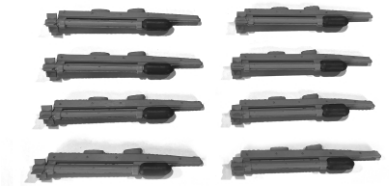
No:SKY1065-100
Tempest Fuselage

No:SKY1065-101
Tempest Main Wings

No:SKY1065-102
Tempest Horizontal Stab

No:SKY1065-103
Tempest Spinner

No:SKY1065-104
Tempest Propeller



No:SKY1065-105
Tempest Guided Missile

No:SKY1065-106
Tempest Main Landing Gear

No:SKY1065-107
Tempest Pushrod Set

No:SKY1065-108
Tempest Screws Set

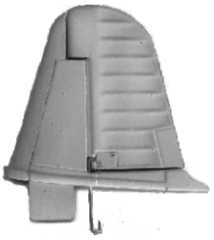
No:SKY5015-014
Skynetic 9g Servo with
350mm (13.7") Lead

No:SKY6000-026
Skynetic Hollow Shaft DST-1200 Motor

Spare parts (F4U CORSAIR)

No:SKY1065-100
750mm F4U
Corsair Fuselage

No:SKY1067-101
750mm F4U
Corsair Main Wings



No:SKY1067-102
750mm F4U
Corsair Vertical Wings

No:SKY1067-103
750mm F4U
Corsair Horizontal wings

No:SKY1067-104
4750mm F4U
Corsair Guided Missile

No:SKY1067-105
750mm F4U
Corsair Auxiliary Oil Tank

No:SKY1067-106
750mm F4U
Corsair Landing Gear

No:SKY1067-107
750mm F4U
Corsair Pushrod and Linkage Set

No:SKY1067-108
750mm F4U
Corsair Propeller Hub

No:SKY1067-109
750mm F4U
Corsair Propeller Hub

No:SKY1067-110
750mm F4U
Corsair Spinner

No:SKY5015-012
9g Servo with 150mm (5.9") Lead

No:SKY1067-111
750mm F4U
Corsair 9g servo with 300mm Wire

No:SKY1067-110
750mm F4U
Corsair DST-1300 Brushless Motor

SKY6003-015
20A Brushless ESC

TROUBLE SHOOTING

Trouble	Possible Reason	Action
Motor doesn' t work, but there are audible tones signalling the number of cells.	The ESC throttle calibration has not set up.	Set up the ESC throttle calibration.
Motor doesn' t work and no audible tone emitted. Servos are not working either.	Poor/loose connection between battery Pack and ESC.	Clean connector terminals or replace connector.
	No power	Replace with a freshly charged battery pack
	Poor soldered connections	Re-solder the cable connections
	Wrong battery cable polarity	Check and verify cable polarity
	ESC throttle cable connected to receiver in the reverse polarity	Check the ESC cable connected to the ESC to ensure the connectors are in the correct polarity.
	Faulty ESC.	Replace ESC
Motor doesn' t work and no audible tone emitted BUT servos are working. Motor doesn't work. An alert tone with single beeping tones followed by a short pause (* * * *) is emitted.	Poor / loose connection between ESC and motor	Clean connector terminals or replace connectors
	Burnt motor coils	Replace motor
	Poor soldered connections.	Re-solder the cable connections
	The battery pack voltage exceeds the acceptable range.	Replace with a freshly charged battery pack Check battery pack voltage
Motor doesn' t work. An alert tone with continuous beeping tones (****) is emitted.	The throttle stick is not in the lowest position at power up.	Move the throttle stick to the lowest position.
Motor doesn' t work,ESC emits two audible tones followed by short beeps (Trouble Shooting).	Reversed throttle channel caused the ESC to enter the programming mode.	Enter the servo reverse menu on your transmitter and reverse the throttle channel. Note: For Futaba radios set the throttle channel to Reverse.
Motor stops running in flight.	Lost throttle signal.	Check proper operation of the radio equipment. Check the placement of the ESC and the Receiver and check the route of the receiver's aerial and ESC cables to ensure there is adequate separation to prevent RF interference. Install a ferrite ring on the ESC's throttle cable.
	Battery Pack voltage has reached the Low Voltage Protection threshold.	Land the model immediately and replace the battery pack.
	Possible bad cable connection.	Check and verify the integrity of the cable connections
Motor restarts abnormally ESC Overheats.	Possible RF Interference at the flying field.	The normal operation of the ESC may be susceptible to surrounding RF interference. Restart the ESC to resume normal operation on the ground to verify recurrence. If the problem persists, test the operation of the ESC at a different flying field.
	Inadequate Ventilation	Relocate the ESC to allow better ventilation.
	Servos drawing too much current and over loading the ESC.	Use servos that are adequately sized for the ESC. The maximum BEC current drawn should be within the BEC limits.
	Over sized motor or prop.	Reduce prop size or resize the motor.