



## 0.40-0.46 Cubic inch displacement 2-stroke Requires: 4-channel radio w/ 4 standard servos

### Specifications

Wing Span
Wing Area
Flying Weight
Fuselage Length

54.0 in / 1370 mm 556 sq in / 35.9 sq dm 5 lb / 2200 g

47.5 in / 1210 mm

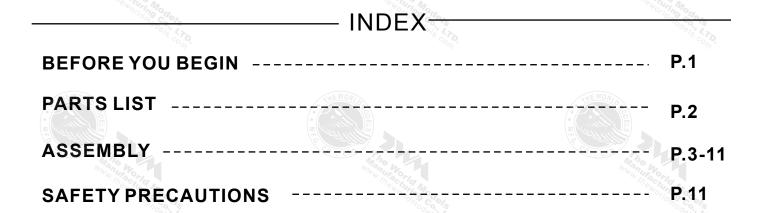
\*Specifications are subject to change without notice.\*

### Warning! This model is not a toy.

It is designed for maximum performance. Please seek advice if one is not familiar with this kind of engine powered precision model. Operating this model without prior preparation may cause injuries. Remember, safety is the most important thing. Always keep this instruction manual at hand for quick reference.







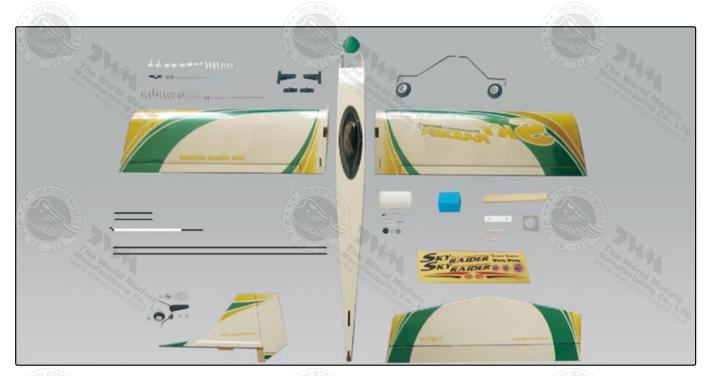
### **BEFORE YOU BEGIN**

- Read through the manual before you begin, so that you can have an overall idea of what to do.
- 2 Check all parts. If you find any defective or missing parts contact your local dealer. Please DRY FIT and check for defects for all parts that will require CA or Epoxy for final assembly. Any parts you find to be defective after the gluing process may be difficult to remove for warranty replacement. The manufacturer will replace any defective parts, but will not extend to the parts that are good before gluing to defective parts during assembly. Warranty will not cover any parts modified by customer.
- Symbols used throughout this instruction manual comprise of the following: -
  - AB Apply epoxy glue.

- C.A Apply instant glue (C.A.glue, super glue.)
- Apply thread locker
- N.J. Must be purchased separately!
- Assemble left and right sides the same way.
- Ensure smooth non-binding movement while assembling.
- Peel off shaded portion covering film.
- Cut off shaded portion.

Drill holes with the specified diameter (here: 3mm).

- Pierce the shaded portion covering film.
- Pay close attention here! Warning!
- Do not overlook this symbol!



### **Parts List**

- 1.MAIN WING -- 1 pair
- 2.WING JOINER 6x26x145mm--1 pc.
- 3.PLYWOOD 3x8x22mm(For Aileron Servo)--1 pc. RING D2.3mm--2 pcs
- 4.STRAPER--2 pcs
  CLEVIS--2 pcs
  FUEL TUBE D6x5mm--4 pcs
  PUSHROD D1.8X135mm w/ Threads(For Aileron)--2 pcs
- 5.FUSELAGE--1 pc. STABILIZER & ELEVATOR --1 set
- 6. VERTICAL FIN & RUDDER--1 set SCREW PM3x65mm--2 pcs WASHER d3xD7mm--2 pcs
- 7.MAIN LANDING GEAR--1 set
  COLLAR D4.1mm w/ set screw--4 sets
  MAIN WHEEL 62mm--2 pcs
  SCREW PA3x10mm--4 pcs
  MOUNTING PLATE 10x20mm(For Main Landing Gear)--2 pcs
- 8.TAIL LANDING GEAR--1 set
  COLLAR D2.1mm w/ set screw--1 set
  TAIL WHEEL 25mm--1 pc.
  ALUMINUM REINFORCEMENT PLATE--1 pc.
  SCREW PA3x12mm--2 pcs
  SCREW PM2x12mm--1 pc.
  M2 NUT --1 pc.
- 9.ENGINE MOUNT PL5111030--1 set SOCKET HEAD SCREW M3x20mm--4 pcs WASHER d3xD7mm--4 pcs
- 10.FUEL TANK 260cc--1 set
  BALSA 9x9x88mm(For Fuel Tank Position Fixing)--1 pc.
- 11.LINKAGE CONNECTOR 2.1mm w/ set screw--1 set
- 12.PUSHROD D1.8x685mm w/ Threads(For Elevator)--1 pc.

SCREW PB2x12mm--3 pcs TRI-HORN M3x14mm(S)--1 set FUEL TUBE D6x5mm--1 pc. CLEVIS--1 pc.

- 13.PUSHROD D1.8x685mm w/ Threads(For Rudder)--1 pc. SCREW PB2x12mm--3 pcs TRI-HORN M3x14mm(S)--1 set FUEL TUBE D6x5mm--1 pc. CLEVIS--1 pc.
- 14.ALUMINUM PLATE 1mm -- 1 pc.
  WASHER d2xD5mm -- 4 pcs
  SCREW PM2x8mm -- 4 pcs
  SCREW PM3x25mm--4 pcs
  WASHER d3xD7mm--8 pcs
  M2 NUT--4 pcs
  M3 NUT--8 pcs
  SPINNER 52mm--1 set
- 15. THROTTLE PUSHWIRE D1.2x330mm--1 pc.
  PLASTIC TUBE d2xD3x240mm--1 pc.
  STRAPER--2 pcs
  FUEL TUBE D6x5mm--2 pcs
  SPONGE 60x70x89mm--1 pc.
- 16.SCREW PM4x30mm--2 pcs WASHER d4x12mm--2 pcs
- 17.CANOPY--1 pc.
  DOUBLE-SIDED TAPE-- 1 pc.
  SCREW PWA2.3x8mm-- 4 pcs
  SILICON GROMMET d1.5xD6.5mm--4 pcs

#### 18.DECALS A178NDEC--1 set

OVERING:--

GOVERING:-GREEN COLOR SCHEME
TOUGHLON STLA178NGWIG
TOUGHLON STLA178NGFUS
TOUGHLON STL100 WHITE
TOUGHLON STL204 CREAM
TOUGHLON STL240 GREEN
TOUGHLON STL571 RICH GOLD
RED COLOR SCHEME
TOUGHLON STLA178NRFUS
TOUGHLON STLA178NRFUS
TOUGHLON STL100 WHITE
TOUGHLON STL201 BLACK
TOUGHLON STL211 FERRARI RED
TOUGHLON STL311 FERRARI RED



2 Main Wing

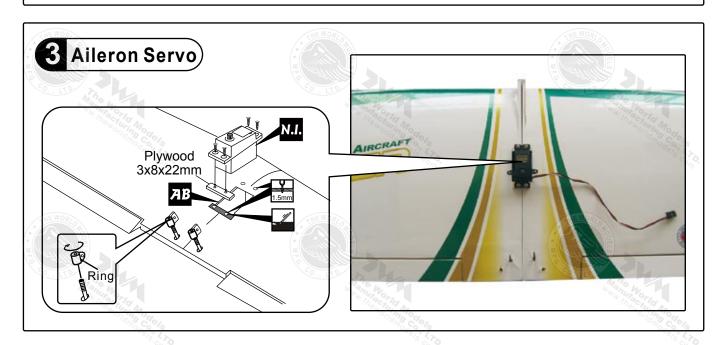
● Please dry fit wing joiner into left and right wing to make sure they fit with the proper dihedral angle, mark the wing joiner if necessary. Apply epoxy glue to both sides of all surfaces in contact. Use a stick to apply the glue to inner side of wing joiner sleeve, and apply the glue to wing joiner before putting them together. Wing joiner not glued properly will lead to wing failure and plane crash.

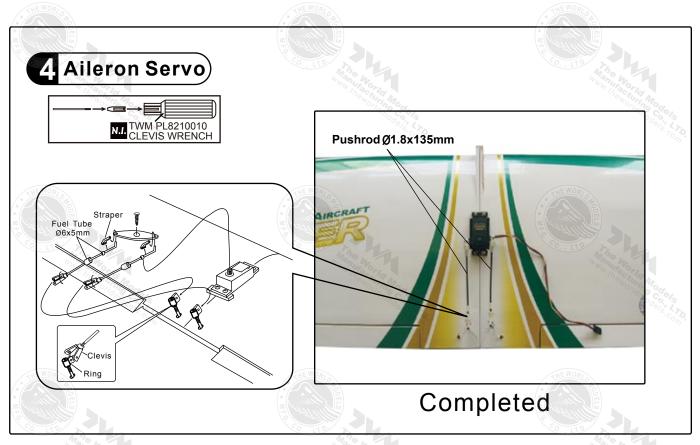


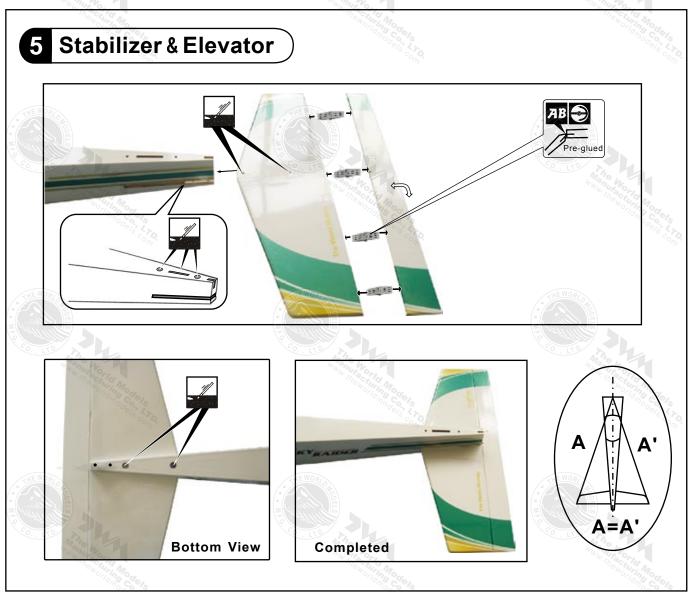
### Completed

 Make sure to glue securely. If not properly glued, a failure in flight may occur.

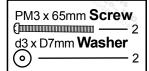




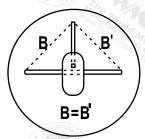


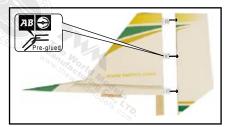


### 6 Vertical Fin / Rudder



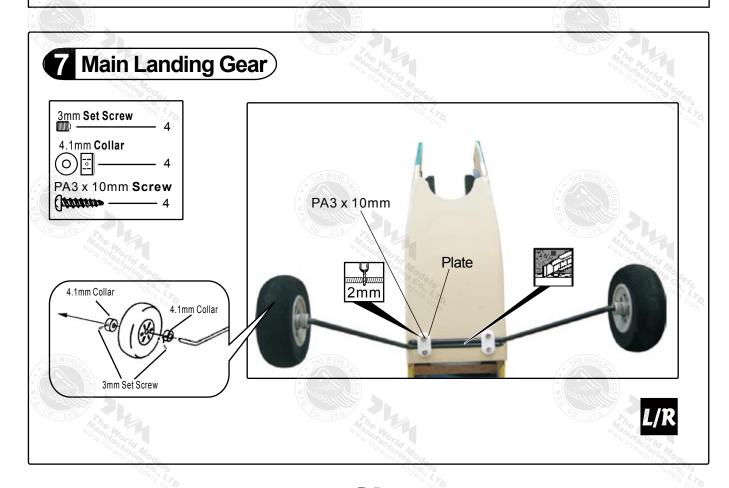
Use thread locker when tightening screw. Don't use excessive force as you are dealing with balsa.

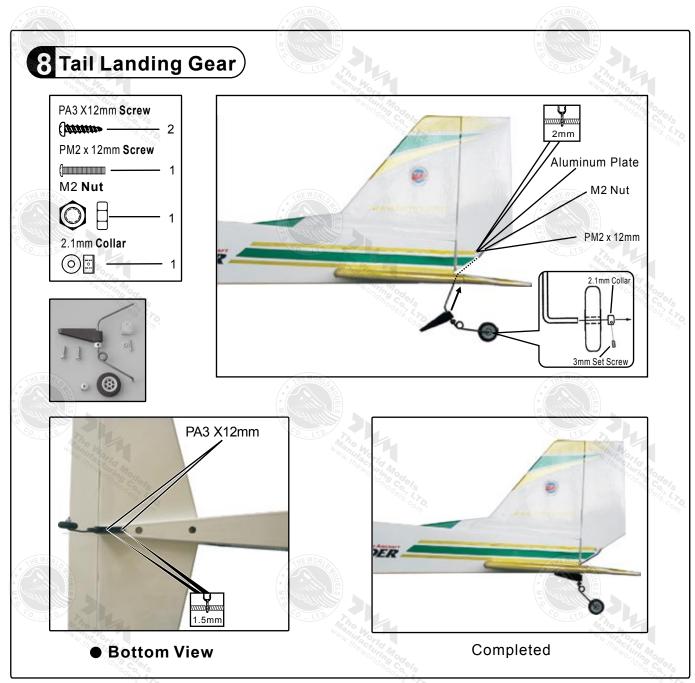


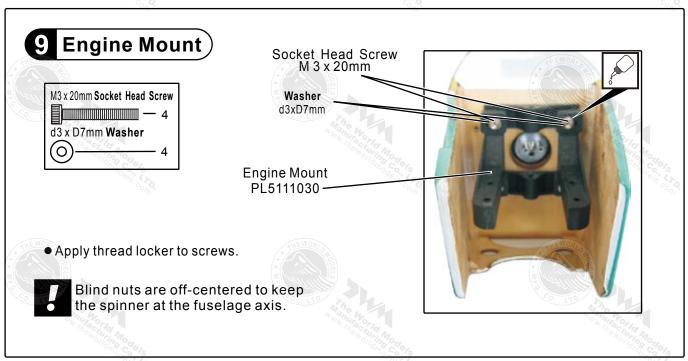


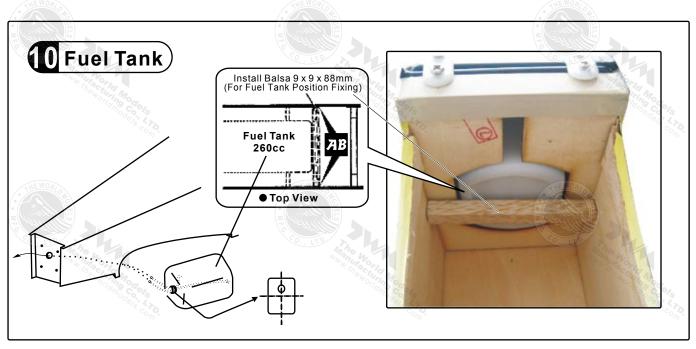


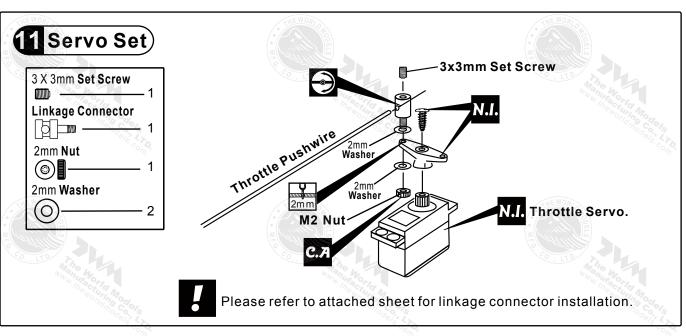


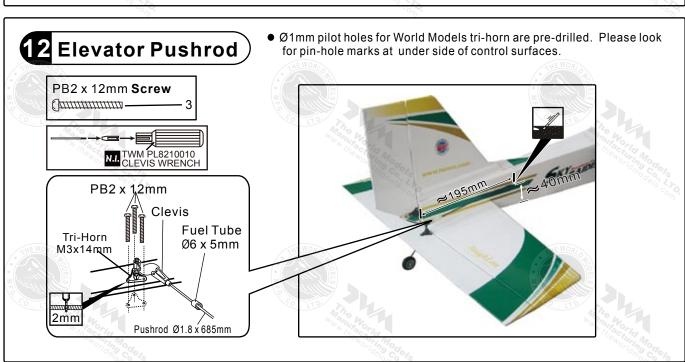


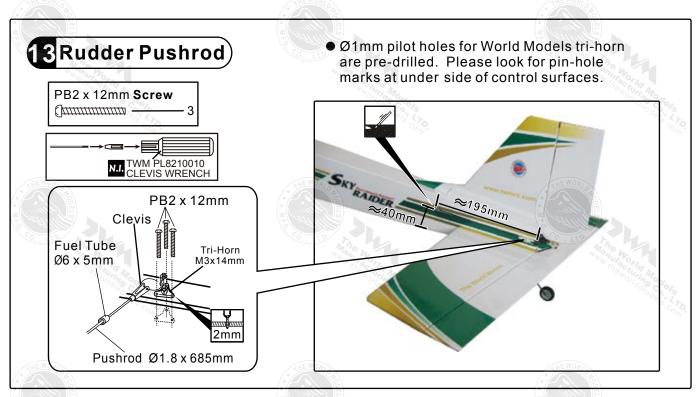


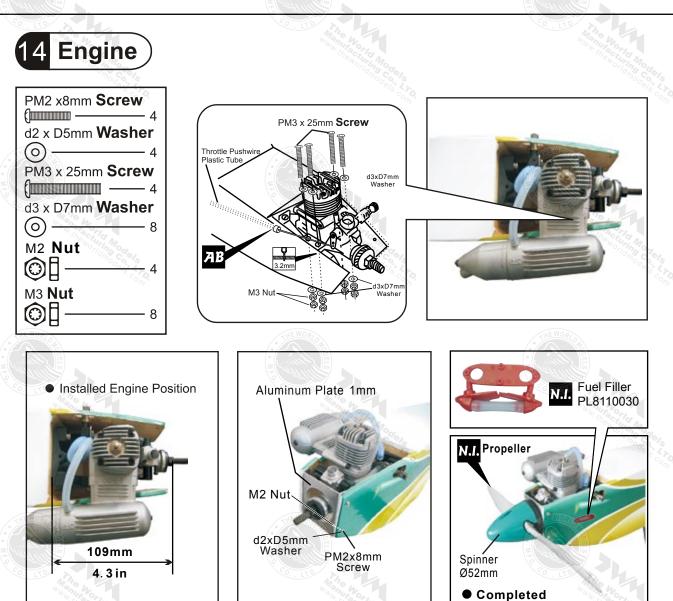


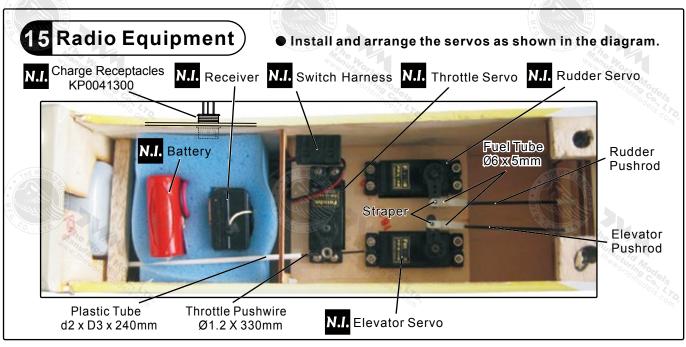


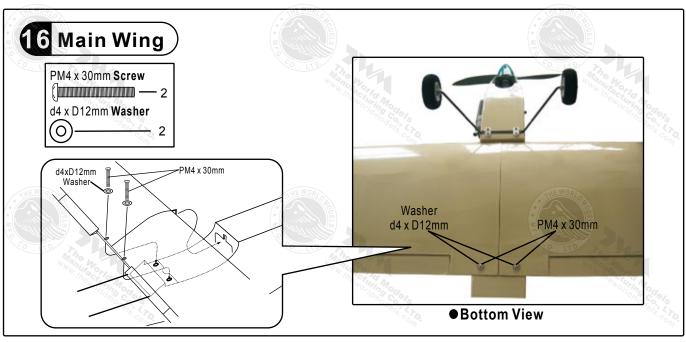


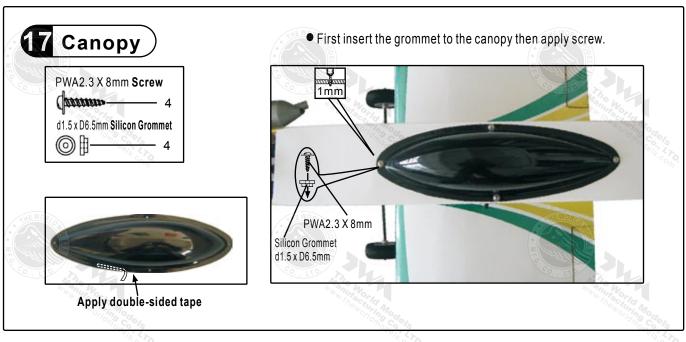


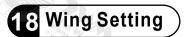










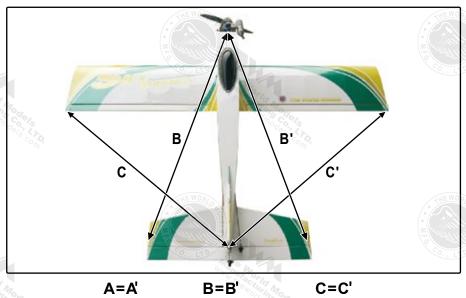


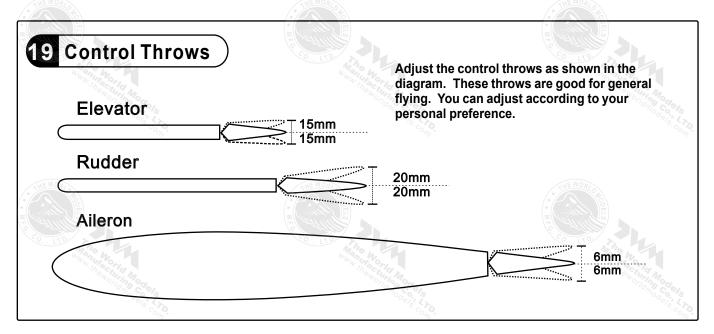
Adjust the wing and fuselage configuration as shown in the diagrams.













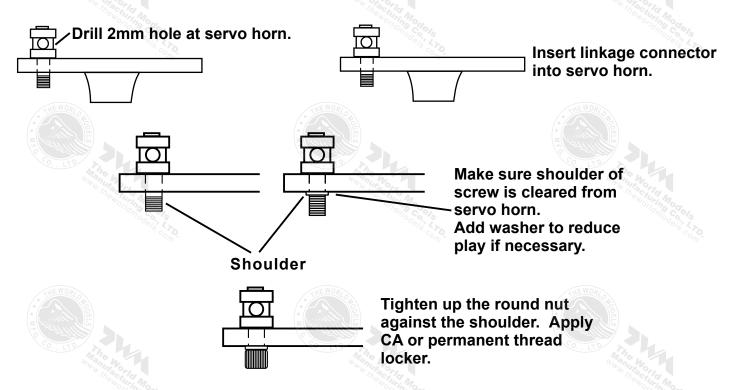
### Warning!

### **Important Safety Precautions**

- # First time flyer should never fly by himself / herself. Assistance from experienced flyer is absolutely necessary.
- # Pre-flight adjustment must be done before flying, it is very dangerous to fly a badly pre-adjusted aircraft.
- # SINYRAIDER is specially designed to be powered by 2C 0.40-0.46 engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause severe damage and injuries.
- # Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller.
- # If you find wrinkles on the covering as a result of weather changes, you can use hot iron to remove the wrinkles. Please begin with lower temperature setting and gradually raise the temperature until the wrinkles are gone. Too hot an iron may damage the covering. Don't use hot iron near the seams or edges, hot iron will melt the glue and shrink the covering at the same time, causing the seams to pull away.
- # Check and re-tighten up all factory assembled screws, use thread locker if necessary.

# LINKAG





After fastening the round nut, make sure that the linkage connector can rotate freely.



### **Product Registration Form (US Customers)**

We would like to share with you any relevant information regarding your model, including product news and free upgrade parts when applicable. Please fill in the following and send to AirBorne Models, 2403 Research Drive, Livermore, CA 94550 USA.

1. Name:	THE WORLD	THE WORLD
2. Address:	The state of the s	
3. Phone #:	E-mail:	CO., LTD.
4. Model:		
Wing QC#Fu		
5. Date of Purchase:	THE WORLD	THE WORLD
6. Store Name:	- TO TO	

Please call AirBorne Models at 925 371 0922 for any assistance in filling this form. Thank you very much for purchasing our product.



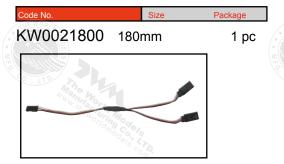
### **Optional Parts**

## ( ACCESSORIES)

### 180mm Extension



### 180mm Y-Cord



### **Charge Receptacles**



### KP0041300



### Field Stand

Code No. Size Package

MS9111430 600 x 240 x 310mm 1 pc



### Fuel Filler

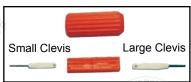


PL8110030 15 x 22 x 49mm 1 x 1 pc



### Clevis Wrench





Special tool for clevis installation. Suitable for standard and small (EP) clevis.

### Standard Servo

Code No SV4031



Speed: 0.17 sec / 60° @4.8V 0.14 sec / 60° @6.0V

Torque: 3.2kg.cm / 44.8 oz - in @4.8V

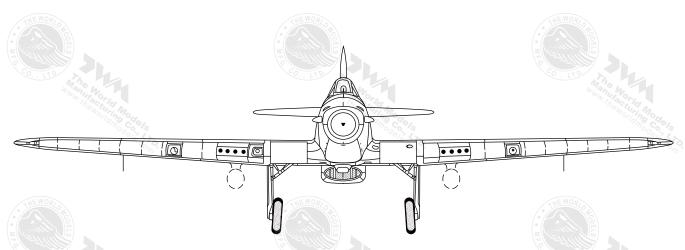
4.1kg.cm / 57.4 oz - in @6.0V

Size : 40.6 x 20 x 37mm /

1.60 x 0.79 x 1.46 in

Weight: 39.4 g / 1.39 oz





**Ducted Fan** 

Pattern

Warbirds

Funfly

Scale

Electric

Sports

Glider

Trainer

Boat



Covering

(Lightex / Toughlon)



The World Models
Manufacturing Co., LTD.
www.theworldmodels.com

