

Requires: 4-channel radio w/ 4 micro servos,
Ducted Fan Propulsion Unit PL6800010
and Outrunner Motor KM0283110,
30A (burst 35A) brushless ESC,
3 cells 11.1V 15C discharge 2100 mAh
Li - Po battery & charger.

### Specifications

Wing Span 36 in / 920 mm
Wing Area 225 sq in / 14.5 sq dm
Flying Weight 28 oz / 790 g
Fuselage Length 32.5 in / 830 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 electric 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   | P.1      |
|--------------------|----------|
| PARTS LIST         | P. 2     |
| ASSEMBLY           | P.3-P.10 |
| SAFETY PRECAUTIONS | P.10     |

### **BEFORE YOU BEGIN**

- Read through the manual before you begin, so you will have an overall idea of what to do.
- 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: -



Apply epoxy glue.



Apply instant glue (C.A.glue, super glue.)



Apply thread locker



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).



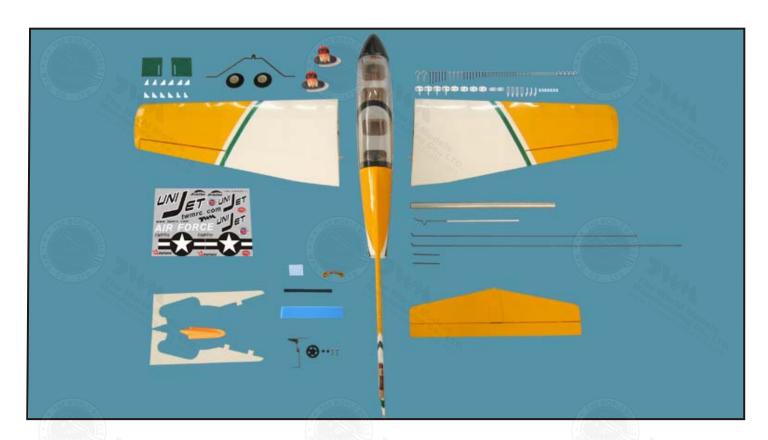
Pierce the shaded portion covering film.



Pay close attention here!



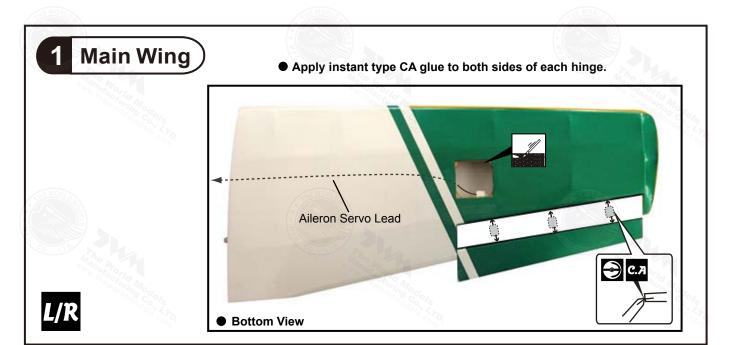
Do not overlook this symbol!

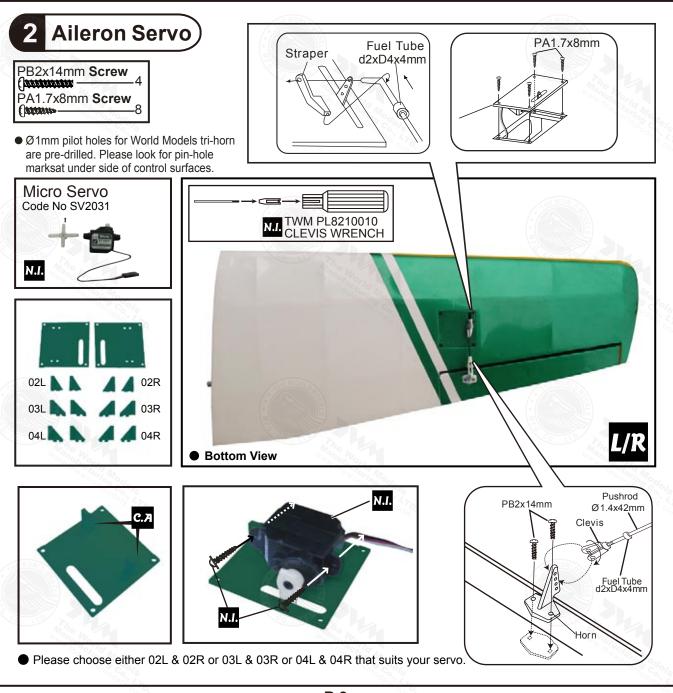


### **Parts List**

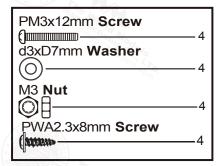
- 1. MAIN WING -- 1 pair
- 2. SERVO MOUNTING PANEL -- 1 pair
  PUSHROD Ø1.4x42mm w/ Threads (For Aileron Servo) -- 2 pcs
  STRAPER -- 2 pcs
  FUEL TUBE d2xD4x4mm -- 4 pcs
  CLEVIS -- 2 pcs
  HORN -- 2 sets
  SCREW PB2x14mm -- 4 pcs
  SCREW PA1.7x8mm -- 8 pcs
- 3. PLYWOOD 3x67.8x217.8mm -- 1 pair CABLE TIE -- 4 pcs SCREW PM3x12mm -- 4 pcs SCREW PWA2.3x8mm -- 4 pcs WASHER d3xD7mm -- 4 pcs M3 NUT -- 4 pcs
- 4. RUDDER -- 1 pc. FUSELAGE -- 1 pc.
- 5. STABILIZER & ELEVATOR -- 1 set
- 6. MAIN LANDING GEAR -- 1 set LANDING WIRE STRAPS (PL4114030) -- 2 pcs MAIN WHEEL PL3116040 Ø40mm -- 2 pcs COLLAR Ø2.6mm w/ set screw -- 4 sets SCREW PA2x8mm -- 4 pcs
- 7. FRONT LANDING GEAR -- 1 set
  PLASTIC COLLAR d1.1xD5x2mm -- 2 pcs
  FRONT WHEEL PL3111250 Ø23mm -- 1 pc.
  SCREW PA2x8mm -- 2 pcs
- PUSHROD Ø1.2x440mm w/ Threads (For Rudder Servo) -- 1 pc. HORN -- 1 set. SCREW PB2x12mm -- 2 pcs
- 9. PUSHROD Ø1.2x533mm w/ Threads (For Elevator Servo) -- 1 pc. HORN -- 1 set SCREW PB2x8mm -- 2 pcs SCREW PA2x5mm -- 3 pcs PVC COVER 0.5mm -- 1 pc.

- 10. PUSHROD Ø0.8x206mm (For Front Landing Gear) -- 1 pc. PLASTIC TUBE d2xD3x140mm -- 1 pc. CLEVIS (d1.2mm) -- 2 pcs FUEL TUBE d2XD4x4mm -- 2 pcs PLYWOOD 2x9.4x15mm -- 1 pc. BATTERY TIE 200mm -- 1 pc. SPONGE 10x50x150mm -- 1 pc.
- 11. EYE SCREW PA2.5x10x23mm -- 2 pcs WING TUBE d9.6x284mm -- 1 pc. RUBBER BAND D30x1mm -- 2 pcs
- 12. CANOPY W/ COCKPIT ASSEMBLY -- 1 pc. PILOT (PC101042A) -- 2 pcs
- 13. DECAL:E272XMDEC-- 1 set
- COVERING:--LIGHTEX SGX 540 PEARL GREEN LIGHTEX SGX 331 CUB YELLOW LIGHTEX SGX 100 WHITE

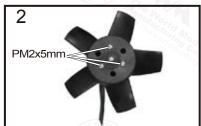




### 3 Ducted Fan Propulsion Unit with 28/31 Motor)



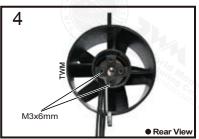




### N.I. Optional Parts



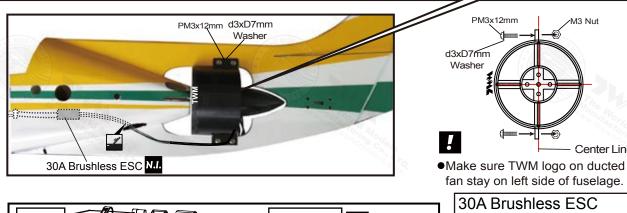


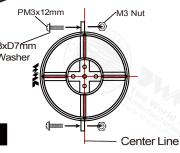


Make sure rotating motor casing is not in contact with wiring or anything.

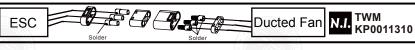




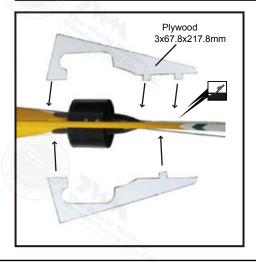


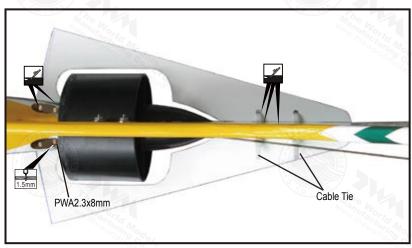


fan stay on left side of fuselage. 30A Brushless ESC









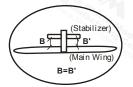
# 4 Rudder

Apply instant type CA glue to both sides of each hinge.



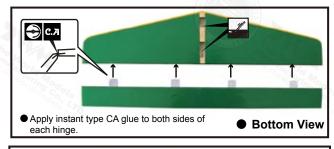


## 5 Stabilizer & Elevator



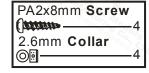
Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.



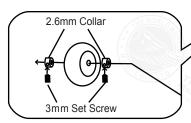


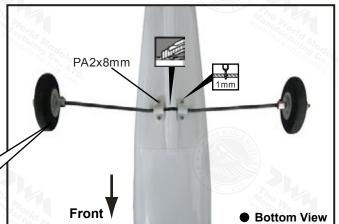










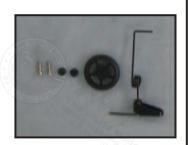


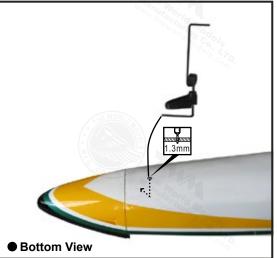
L/R

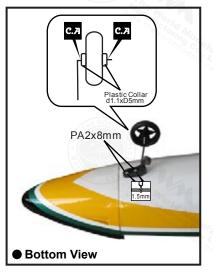
## 7 Front Landing Gear

Ø1mm pilot hole is pre-drilled. Please look for pin-hole marks at under side of fuselage.

PA2x8mm **Screw** 





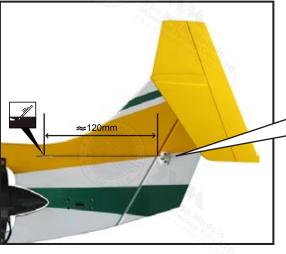


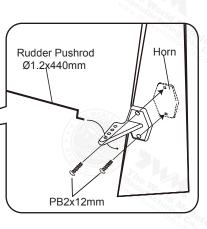


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Ø1mm pilot holes for World Models horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

PB2x12mm Screw



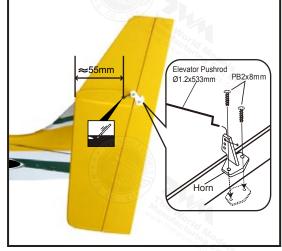


## 9 Elevator Pushrod

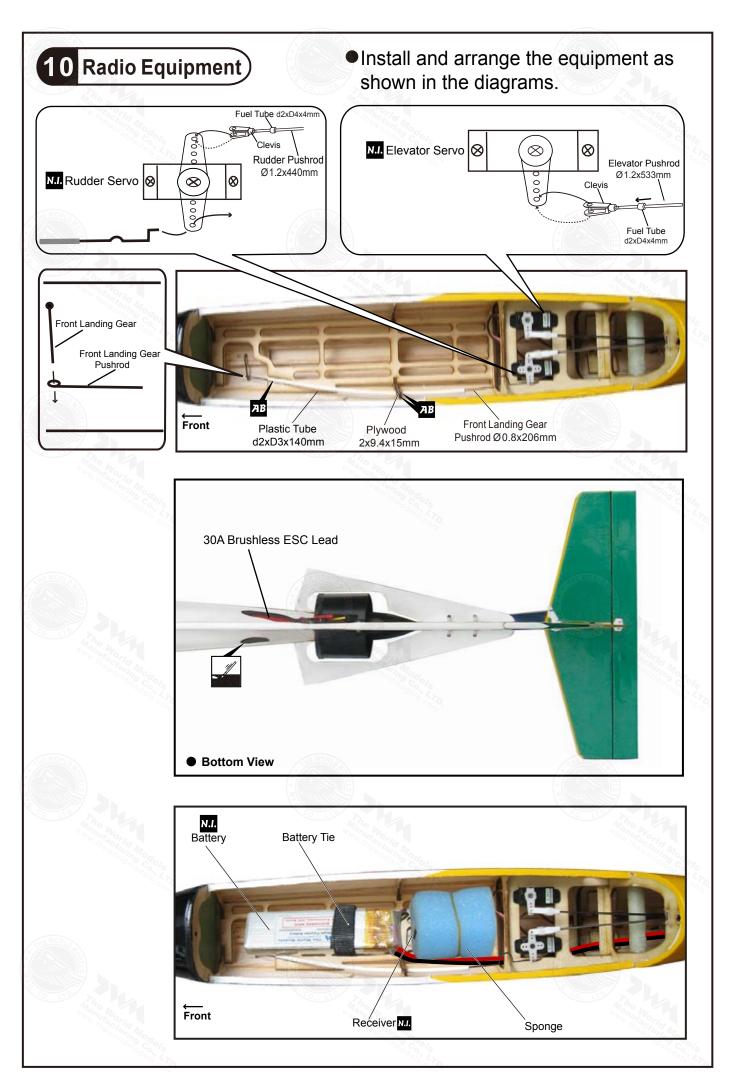
 Ø1mm pilot holes for World Models horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

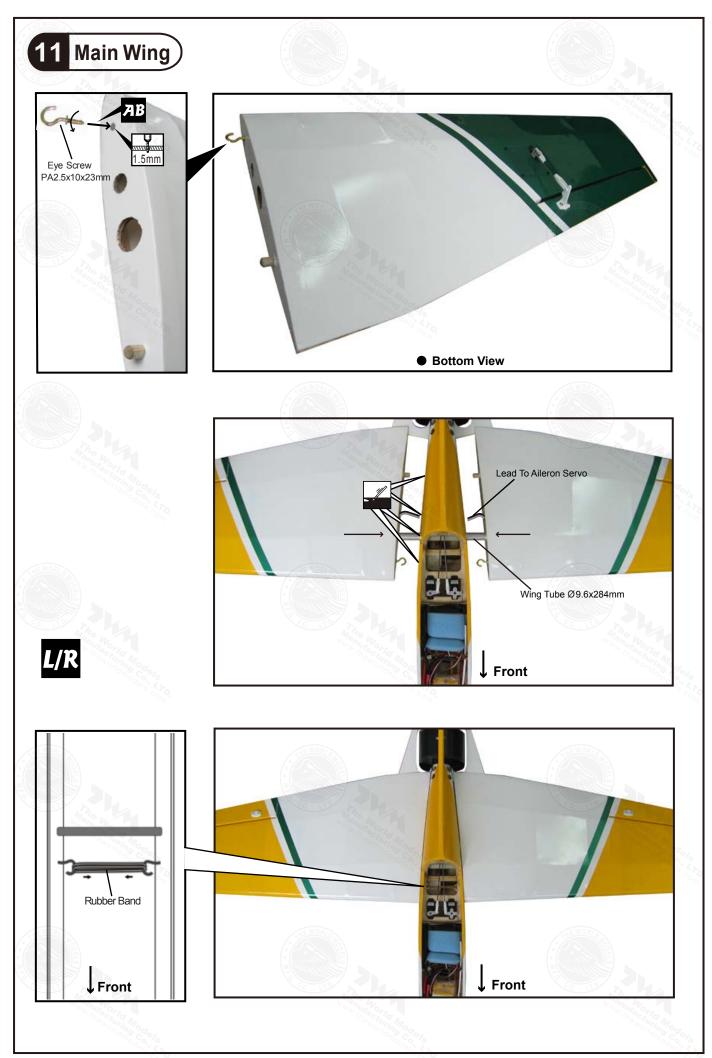
PB2x8mm Screw 2
PA2x5mm Screw ()



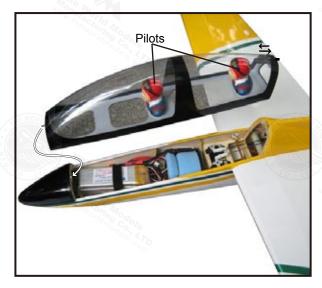








## 12 Canopy w/ Cockpit Assembly

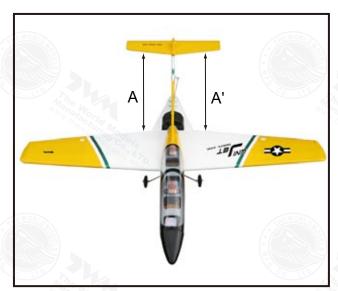


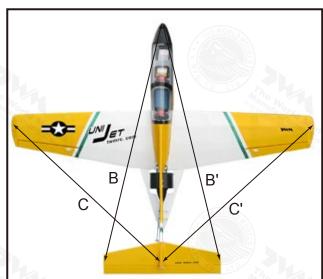


## 13 Wing Setting

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



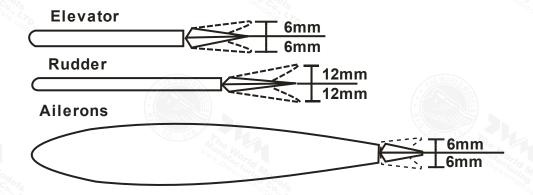




A=A' B=B' C=C'

# 14 Control Throws

Adjust the control throws as shown in the diagram. These throws are good for general flying. You can adjust according to your personal preference.



15 C.G.

■ The ideal C.G. position is 57mm (2.25in) behind the leading edge measured at where the wing meets the fuselage. In order to obtain the C.G. specified, add weight to the fuselage or move the battery position. Check the C.G. before flying.



# 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.
- # " is designed for high speed flying. Too low an air speed during take off or landing may cause tip stall. Point the **UniJet** towards the wind, use full throttle and let the **UniJet** gain enough ground speed before pulling the elevator gently for take off. For landing, approach against the wind, maintain power to the ducted fan to keep enough air speed before touch down.
- # 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.

### **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, 4749-K, Bennett Drive, Livermore, CA 94551 USA.

| 1. Name:                          |                 |                   |                                |
|-----------------------------------|-----------------|-------------------|--------------------------------|
| 2. Address:                       | THE WO          | 81                |                                |
| 3. Phone #:                       | E-m             | ail:              |                                |
| 4. Model:                         |                 |                   |                                |
| Wing QC#<br>(QC numbers are stamp |                 |                   |                                |
| 5. Date of Purchase:              | THEWO           |                   |                                |
| 6. Store Name:                    |                 |                   |                                |
| Dloggo call AirPorno              | Models at 025.3 | 71 0022 for any a | essistance in filling this for |

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)

### Ducted Fan Propulsion Unit without Motor





-Operating Voltage / Current :

12V / 30A (35A Burst) -Thrust: Approx. 560A -Weight: 60g (without motor) -Rotor diameter: 67 mm

-Outer casing diameter: 74 mm

-Color : Black

### Outrunner 28 / 31 (for ducted fan)





-Operating Power: 375W -Operating Voltage: 6 - 15V -Operating Current: 30A

-Peak Current: 35A (max. 15 sec.) -Internal Resistance: 25 m ohms

-Diameter: 28 mm -Length: 31 mm -Weight: 58 g -Shaft Diameter: 3 mm

-Shaft Length: 14.8 mm -Mounting Screw:

M3 (Front) and M2 (Back) -Distance of Mounting Holes:

16 mm and 19 mm

### 30A Brushless ESC

Package KC2030A02 24 x 45 x11mm 1 pc



-Current: 30A continuous

-Burst current ( < 10 seconds): 40A

-Weight: 25g (with wires)

-BEC output: 2A

-Input:

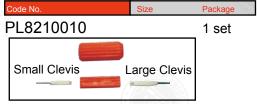
Li - ion / Li - poly 2 - 4 cells; Nimh / Nicd 5 - 12 cells

-1 M black & 1 M red / pkg

#### Silicon Wire



### Clevis Wrench



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

#### 2 - Pin EZ Connector



-ideal for electric models

#### 3 - Pin EZ Connector



-ideal for electric models

### 180mm Extension For Park Flyer



#### **Heat Shrink Tube**



-Three colors (Black, Red, Yellow)

#### Micro Servo

#### Code No SV203



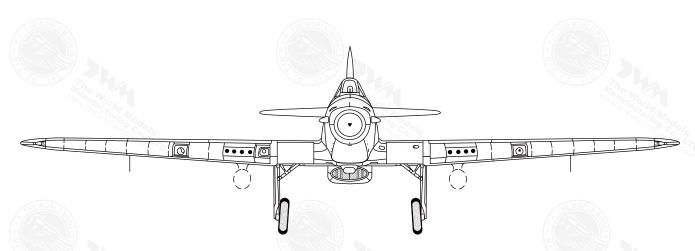
Speed: 0.1 sec / 60° @4.8V

Torque: 16kg.cm / 22.2 oz - in @4.8V : 22.4 x 11.4 x 20.0mm /

0.88x0.45 x 0.79in Weight: 7.8 g / 0.28 oz







**Ducted Fan** 

Pattern

Warbirds

Funfly

Scale

Electric

Sports

Glider

Trainer

Boat

Accessories

Covering

(Lightex / Toughlon)

