

# SUPER TAIJI EP (40)



## 450W Motor System

Requires: 4-channel radio w/ 4 mini servos,  
 Outrunner Motor KM0374810,  
 w/ Propeller Adaptor HW2340300, 40A  
 Brushless ESC, 11x8E propeller, 4 cells  
 14.8V 3200 mAh Li - Po battery & charger.

### Specifications

Wing Span	52 in / 1320 mm
Wing Area	490 sq in / 31.6 sq dm
Flying Weight	3.9 lb / 1770 g
Fuselage Length	53.5 in / 1350 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.



The World Models  
 Manufacturing Co., Ltd.  
[www.theworldmodels.com](http://www.theworldmodels.com)

FACTORY PRE-FABRICATED  
 ALMOST-READY-TO-FLY (ARF) SERIES  
 MADE IN CHINA

# ***SUPER TAIJI EP (40)***

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### **BEFORE YOU BEGIN**

- 1 Read through the manual before you begin, so you will 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.
- 3 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. SCREW PB2x18mm -- 4 pcs  
 SCREW PA1.7x8mm -- 8 pcs  
 STRAPER PL4112106 -- 2 pcs  
 FUEL TUBE d2xD4x4mm -- 4 pcs  
 CLEVIS PL4112105 -- 2 pcs  
 HORN PL4113102 -- 2 sets  
 PUSHROD Ø1.4x67mm w/ Threads (For Aileron) -- 2 pcs  
 SERVO MOUNTING PANEL PL5310030 -- 1 pair
3. STABILIZER & ELEVATOR -- 1 set  
 FUSELAGE -- 1 pc.  
 STABILIZER TUBE Ø8x168mm -- 1 pc.  
 SCREW PA2.6x10mm -- 2 pcs  
 WASHER d3xD7mm -- 2 pcs
4. VERTICAL FIN & RUDDER -- 1 set
5. TAIL LANDING GEAR -- 1 set  
 TAIL WHEEL Ø23mm -- 1 pc.  
 COLLAR Ø2.1mm w/ set screw -- 1 pc.  
 SCREW PA2.6x10mm -- 2 pcs
6. SCREW PB2x16mm -- 4 pcs  
 CLEVIS PL4112105 -- 2 pcs  
 FUEL TUBE d2xD4x4mm -- 2 pcs  
 HORN -- 2 sets  
 PUSHROD Ø1.4x810mm w/ Threads (For Elevator) -- 2 pcs
7. SCREW PB2x18mm -- 2 pcs  
 CLEVIS PL4112105 -- 1 pc.  
 FUEL TUBE d2xD4x4mm -- 1 pc.  
 HORN -- 1 set  
 PUSHROD Ø1.4x865mm w/ Threads (For Rudder) -- 1 pc.
8. SOCKET HEAD SCREW M3x12mm -- 4 pcs  
 WASHER d3xD7mm -- 4 pcs  
 COWLING -- 1 pc.  
 SPINNER Ø62mm PL2111062 -- 1 set
9. MAIN LANDING GEAR -- 1 set  
 MAIN WHEEL Ø50mm -- 2 pcs  
 WHEEL PANTS -- 1 pair  
 SOCKET HEAD SCREW M2.5x12mm -- 4 pcs  
 SCREW HM3x35mm -- 2 pcs  
 WASHER d2.5xD8mm -- 4 pcs  
 WASHER d3xD7mm -- 4 pcs  
 QUICK RELEASE NYLON RIVET PL1208042 -- 4 pcs  
 M3 NUT -- 2 pcs  
 COLLAR Ø3.1mm w/ Set Screw -- 4 sets  
 ALUMINUM PLATE 1mm -- 2 pcs
10. STRAPER -- 2 pcs  
 FUEL TUBE d2xD4x4mm -- 2 pcs  
 BATTERY TIE 270mm -- 2 pcs  
 SPONGE 10x50x150mm -- 2 pcs  
 DOUBLE-SIDED TAPE 30x35mm -- 1 pc.  
 PUSHROD Ø1.4x42mm (For Elevator) -- 1 pc.  
 PUSHROD CONNECTOR PL4410020 -- 1 set
11. WING TUBE Ø16x438mm -- 1 pc.  
 SELF-TIGHTENING LATCHING PIN PL9120010 -- 2 pcs  
 WIRE Ø0.6mm -- 1 pair  
 M3x6mm SET SCREW -- 2 pcs
12. COCKPIT -- 1 pc.  
 ● COVERING:  
 TOUGHLON STLE330000  
 TOUGHLON STL 100 WHITE

# 1 Main Wing



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

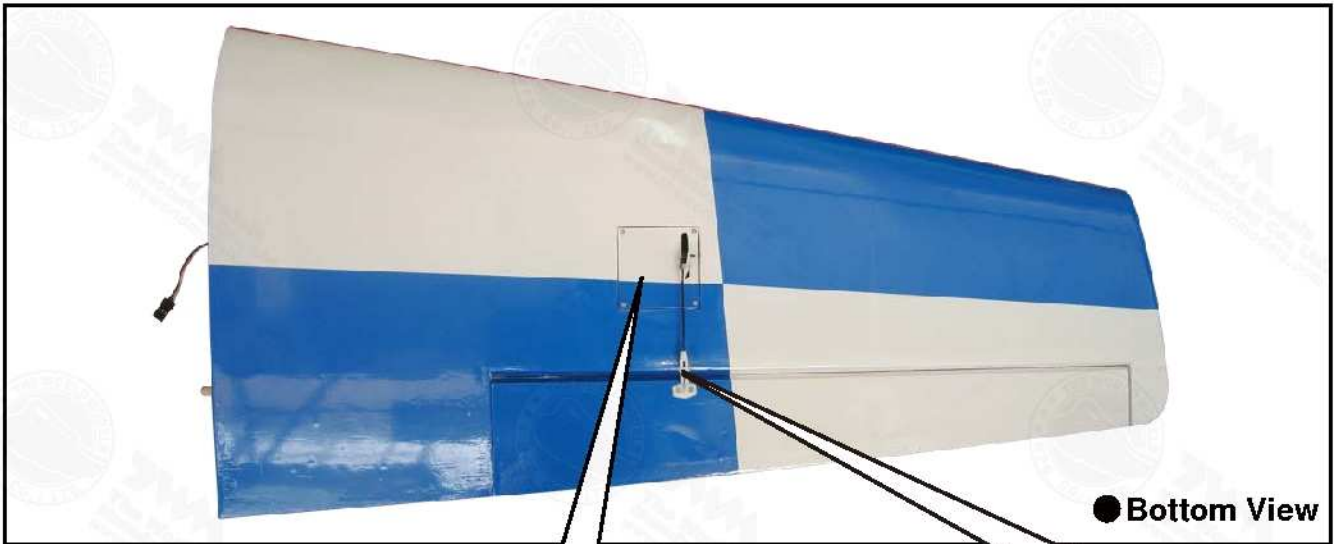


● Bottom View

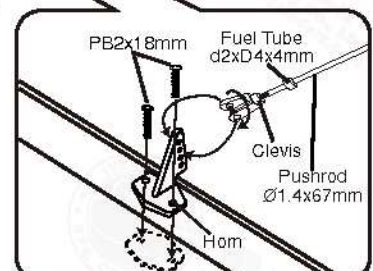
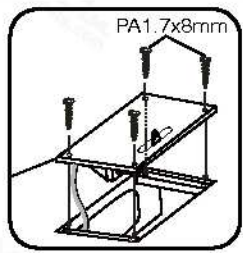
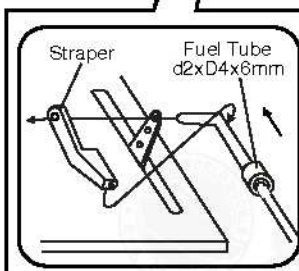
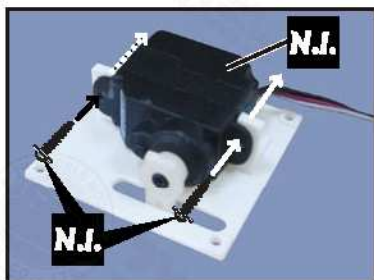
# 2 Aileron Servo

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

- PB2x18mm Screw  — 4
- PA1.7x8mm Screw  — 8



● Bottom View



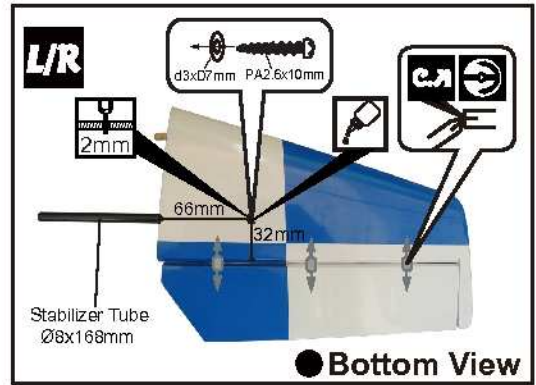
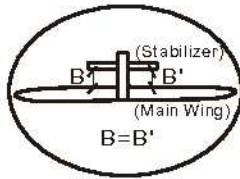
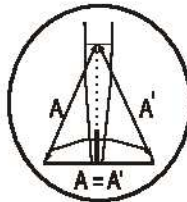
### 3 Stabilizer & Elevator

PA2.6x10mm Screw

d3xD7mm Washer

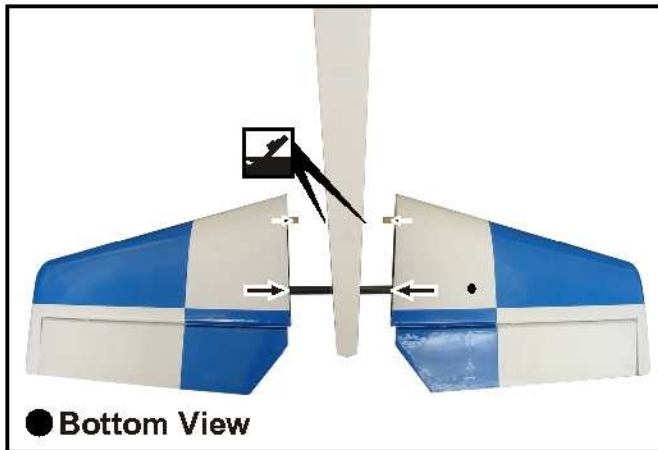
2

2

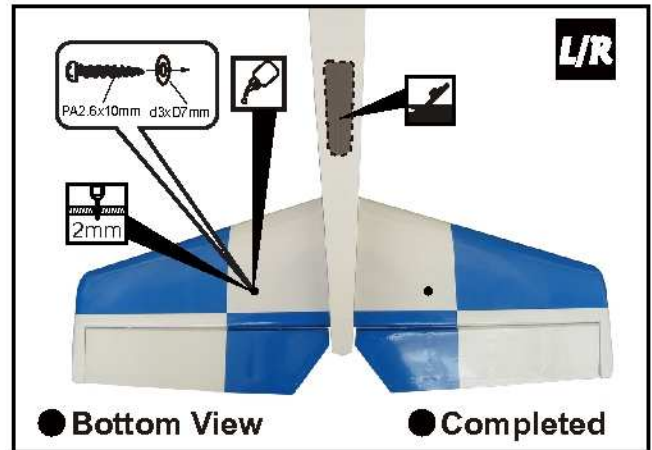


● Bottom View

- Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.
- Drill Ø2 mm pilot holes on the stabilizer tube before applying the PA2.6 mm screw.



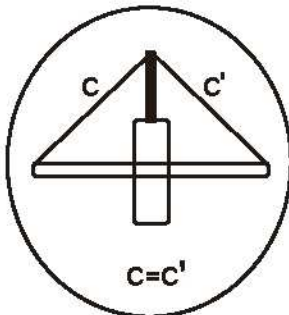
● Bottom View



● Bottom View

● Completed

### 4 Vertical Fin & Rudder



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

L/R



● Completed

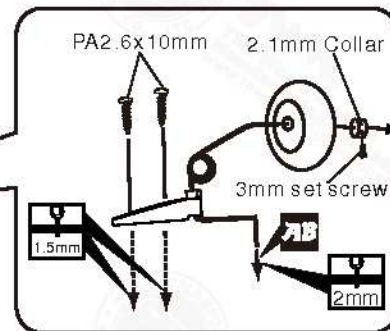
## 5 Tail Landing Gear

PA2.6x10mm Screw

2

2.1mm Collar

1



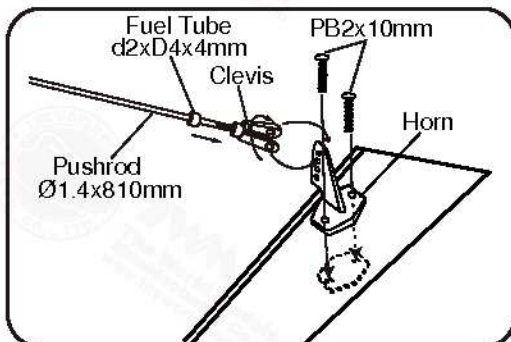
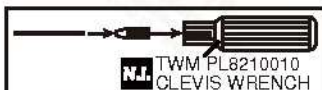
● Bottom View

## 6 Elevator Pushrod

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

PB2x16mm Screw

4



● Bottom View

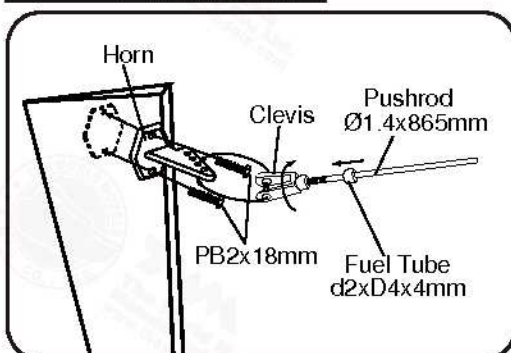
L/R

## 7 Rudder Pushrod

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




PB2x18mm Screw





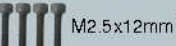


2



● Bottom View

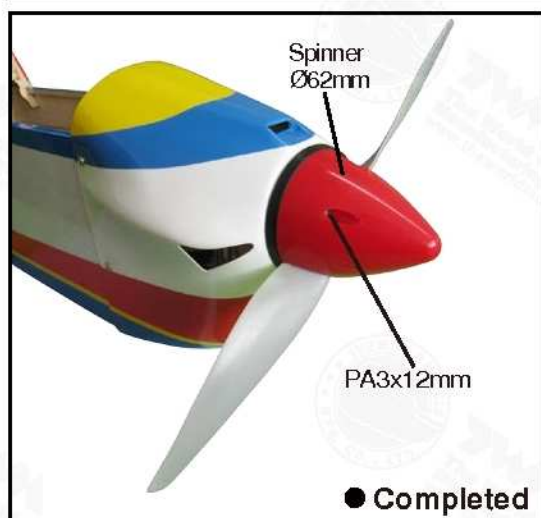
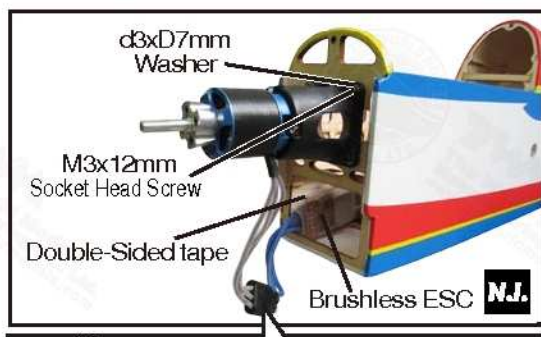
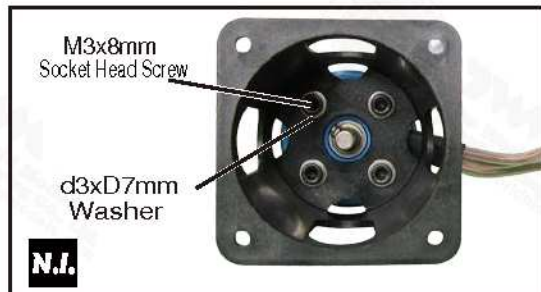
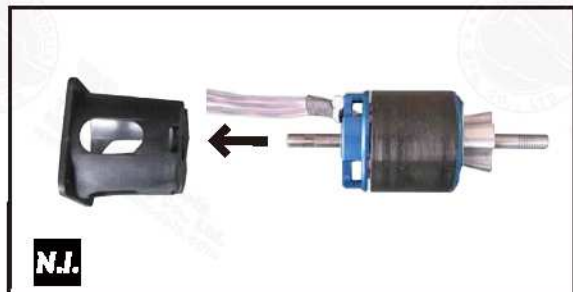
# 8 Outrunner Motor / Cowling / Spinner

- M3x12mm Socket Head Screw  4
- d3xD7mm Washer  4
- PWA2.6x8mm Screw  4


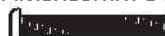





-  Motor Mount PL5404000
-  Outrunner 37/48 Deluxe KM0374810
-  Radial Mount Adaptor Set HW2340300
-  Propeller Set (11x8E) PL6211108
-  M2.5x12mm  M3x8mm  d3xD7mm Washer

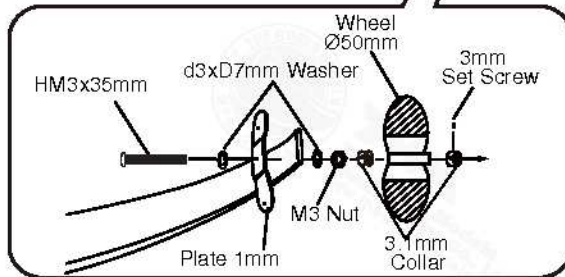
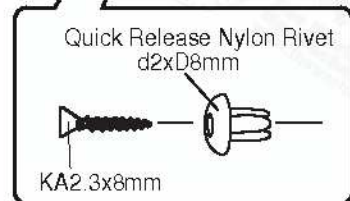
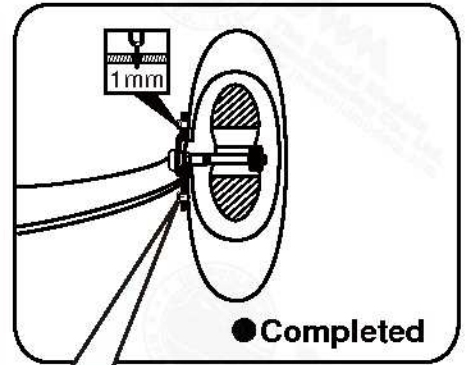
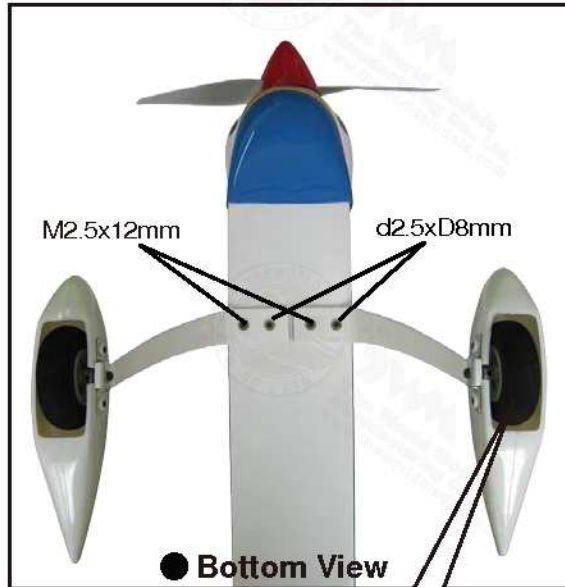
**N.I.** Optional Parts

● Make sure the rotating motor casing is not in contact with wirings or anything.



## 9 Main Landing Gear

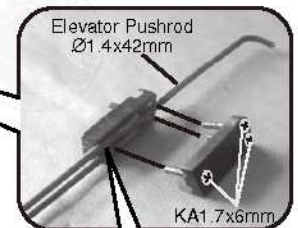
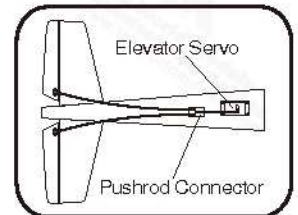
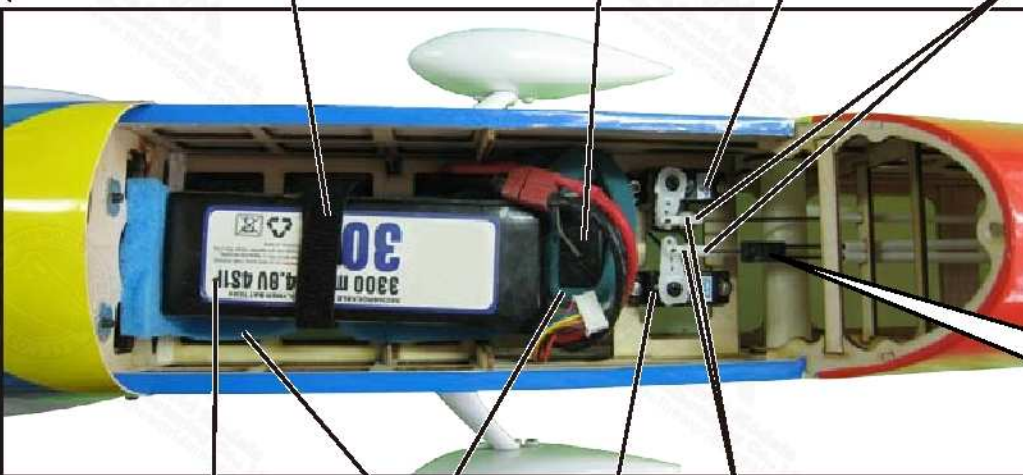
- M2.5x12mm Screw  4
- d2.5xD8mm Washer  4
- HM3x35mm Screw  2
- M3 Nut  2
- 3.1mm Collar  4
- d3xD7mm Washer  4
- Quick Release Nylon Rivet d2xD8mm  4
- KA2.3x8mm Screw  4



**L/R**

## 10 Radio Equipment ● Install and arrange the servo as shown in the diagram.

**Front** ← Battery Tie **N.I.** Receiver **N.I.** Rudder Servo Straper

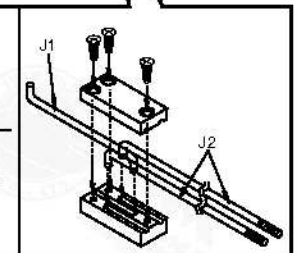
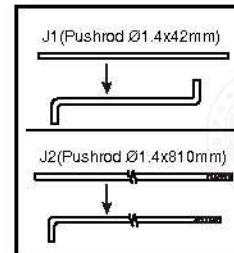


**N.I.** Battery

Sponge

**N.I.** Elevator Servo

Fuel Tube  
d2xD4x4mm





# 11 Main Wing

PWA2 x 12mm **Screw**

4

3 x 6mm **Set Screw**

2

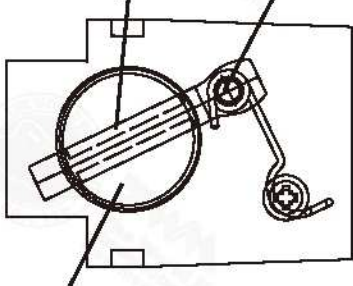
**L/R**

Wire Ø0.6mm  
3mm Set Screw

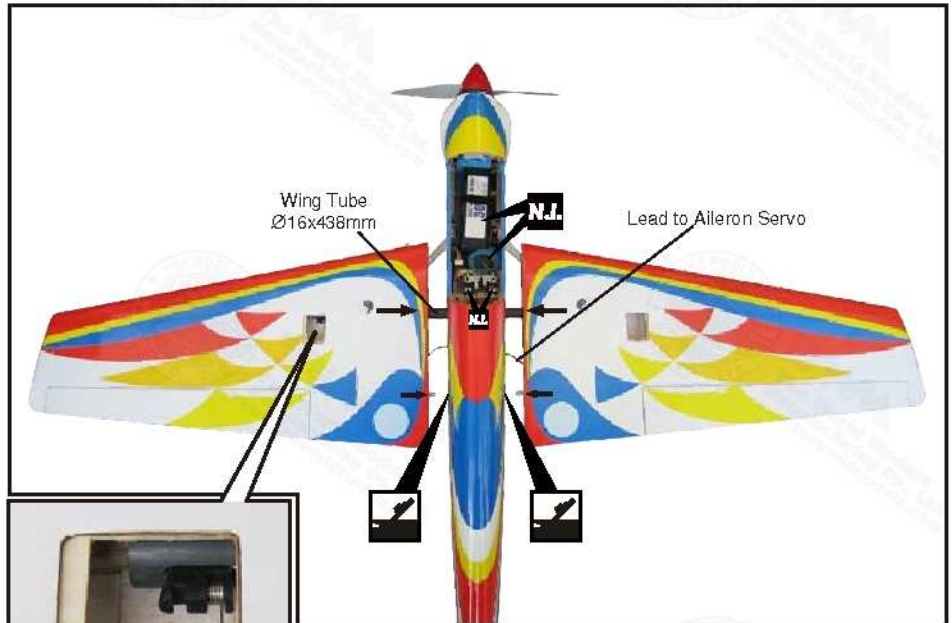


● **Completed**

Self Tightening Wing Latch  
Set Screw M3X6mm



Wing Tube



● **Completed**

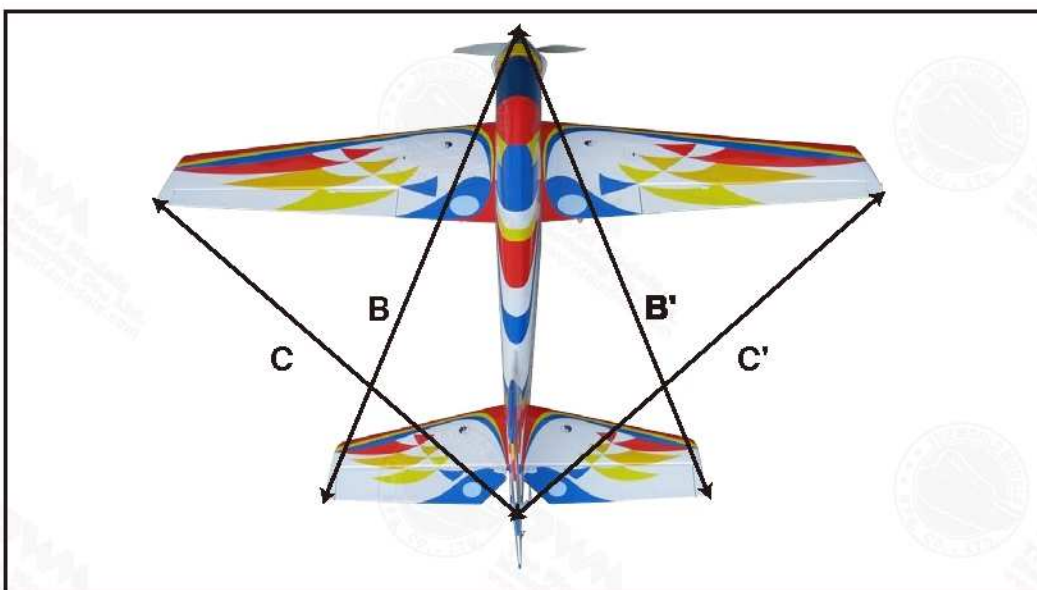
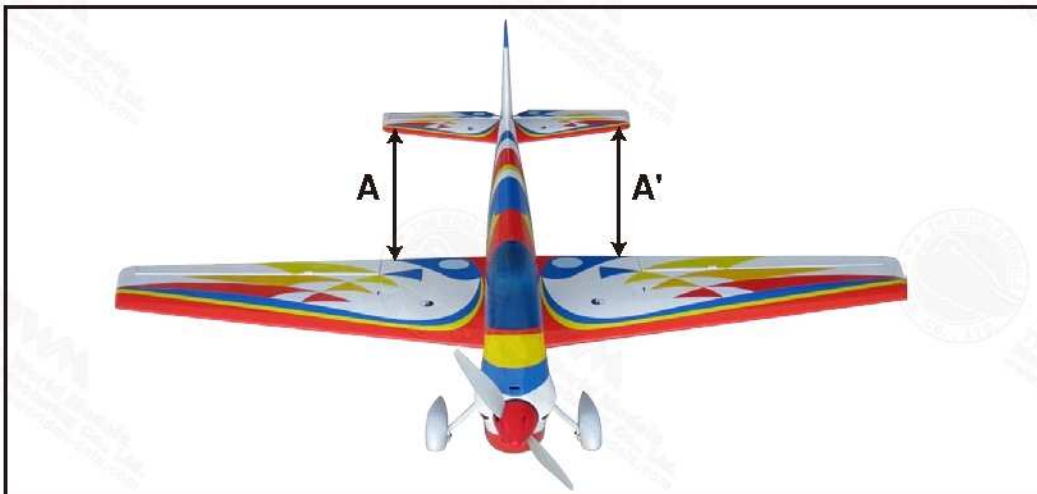
# 12 Cockpit



● **Completed**

### 13 Wing Setting

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



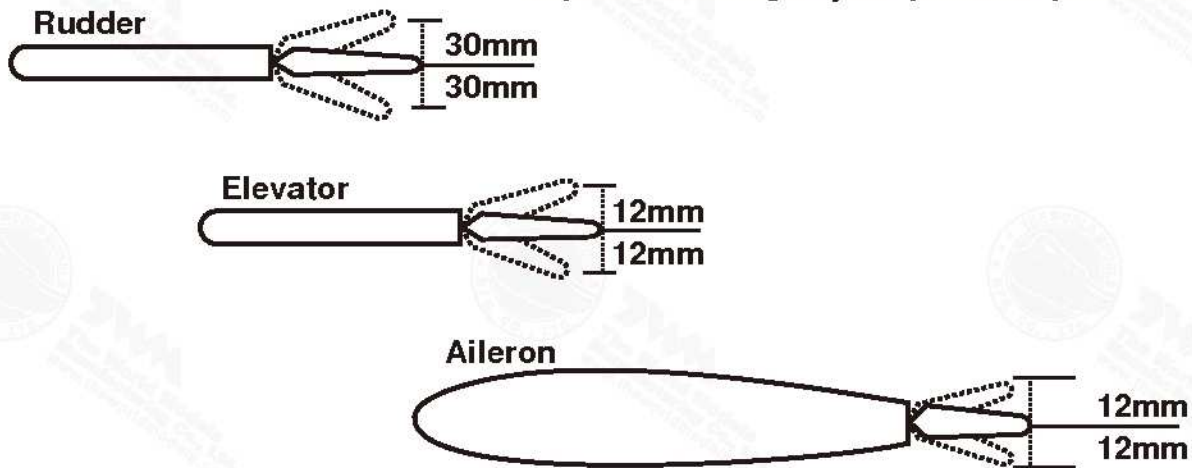
$A=A'$

$B=B'$

$C=C'$

## 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 114mm (4.5 in.) 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.



<http://www.theworldmodels.com/para/instruction/instructionManuals.php>

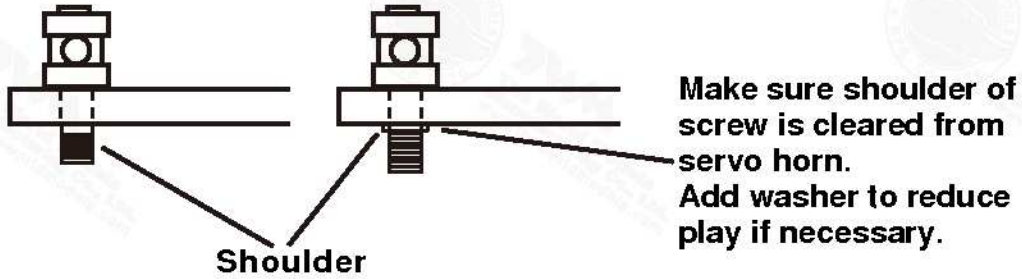
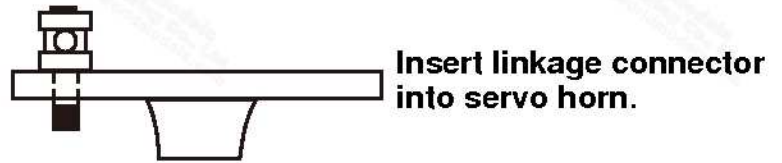
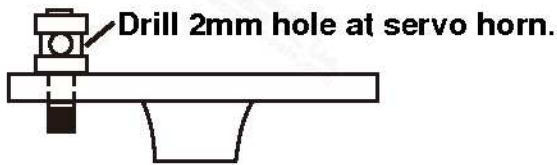
## ! Warning!

### 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.
- # **SUPER TAIJI EP (40)** is specially designed to be powered by **KM0374810 Outrunner Motor**.
- # Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller. Extreme caution should be exercised when working with electric powered models. Make sure the propeller is cleared of all objects, especially your hands before connecting the battery to the model. Make sure you understand the operation of the ESC (Electronic Speed Control) by studying the ESC manual. Once you plug in the battery for electric powered model, always treat the propeller as a rotating one, as accidental movement of the throttle stick will spin the propeller and could cause injuries.
- # 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.

# LINKAGE CONNECTOR

HW7111050 & HW7111060



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

1. Name: \_\_\_\_\_

2. Address: \_\_\_\_\_

3. Phone #: \_\_\_\_\_ E-mail: \_\_\_\_\_

4. Model: \_\_\_\_\_

Wing QC# \_\_\_\_\_ Fuselage QC# \_\_\_\_\_  
(QC numbers are stamped on wing and fuselage)

5. Date of Purchase: \_\_\_\_\_

6. Store Name: \_\_\_\_\_

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

## (TMM ACCESSORIES)

### 3 - Pin EZ Connector

Code No.	Size	Package
KP0011310	40A Max. Current	1 set



-ideal for electric models

### 2 - Pin EZ Connector

Code No.	Size	Package
KP0011210	40A Max. Current	1 set



-ideal for electric models

### 40A Brushless ESC

Code No.	Size	Package
KC2040A02	55 x 28 x 12mm	1 pc



- Current : 40A continuous
- Burst current ( < 10 seconds ) : 55A
- Weight : 33g (with wires)
- BEC output : 3A
- Input :
- Li - ion / Li - poly 2 - 5 cells;
- Nimh / Nicd 5 - 15 cells

### Clevis Wrench

Code No.	Size	Package
PI8210010		1 set



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

### Radial Mount Adaptor Set

Code No.	Size	Package
HW2340300		1 set



### Propeller Adaptor Wrench 24mm

Code No.	Size	Package
HW3112400		1 pc



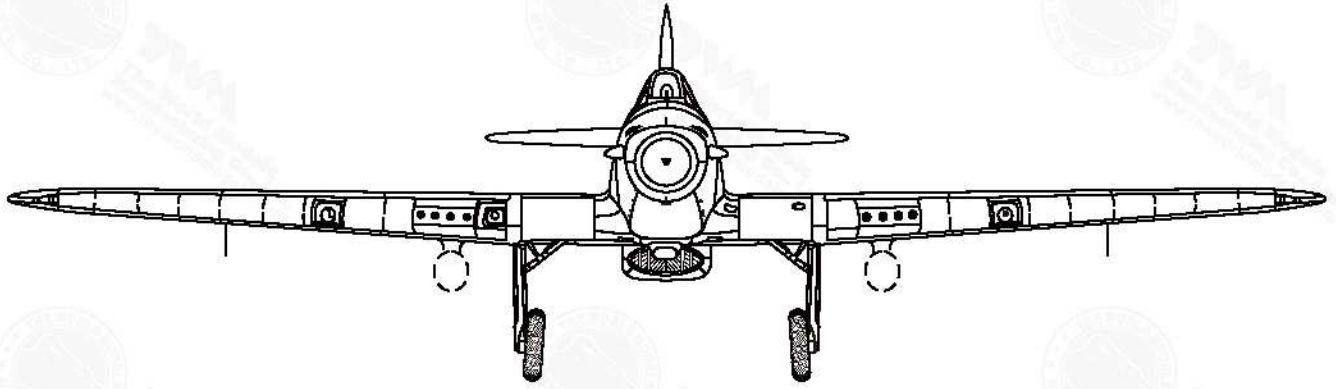
### Outrunner 37 / 48 Deluxe

Code No.	Package
KM0374810	1 pc



- Kv (rpm / V): 770
- Operating Power: 450 W
- Operating Voltage: 8.5 - 18 V
- Operating Current: 30 A
- Peak Current: 38A (max. 15 sec.)
- Internal Resistance: 34 m ohms
- Diameter: 37.2 mm
- Length: 48.5 mm
- Weight: 172 g
- Shaft Diameter: 5 mm
- Shaft Length: 21 mm
- Mounting Screw:
- M3 (Front) and M2.5 (Back)
- Distance of Mounting Holes:
- 25mm (Front) and 15.5mm (Back)





**Ducted Fan**

**Pattern**

**Warbirds**

**Funfly**

**Scale**

**Electric**

**Sports**

**Glider**

**Trainer**

**Boat**

**Accessories**

**Covering**

(Lightex / Toughlon)



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