

# Extra 300 EP (40)



## 450W Motor System

**Requires : 4-channel radio w/ 4 mini servos,  
Outrunner Motor KM374810,  
w/ Propeller Adaptor HW2340102, 40A  
Brushless ESC with 11x8E proepller, 4 cells  
14.8V 3200mAh Li - Po battery & charger.**

### Specifications

Wing Span	50.5 in / 1280 mm
Wing Area	450 sq in / 29 sq dm
Flying Weight	53.5 oz / 1510 g
Fuselage Length	42.5 in / 1100 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

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

# Extra 300 EP (40)

## INDEX

BEFORE YOU BEGIN .....	P.1
PARTS LIST .....	P.2
ASSEMBLY .....	P.3-P10
SAFETY PRECAUTIONS .....	P.10

## BEFORE YOU BEGIN

- 1 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.
- 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.

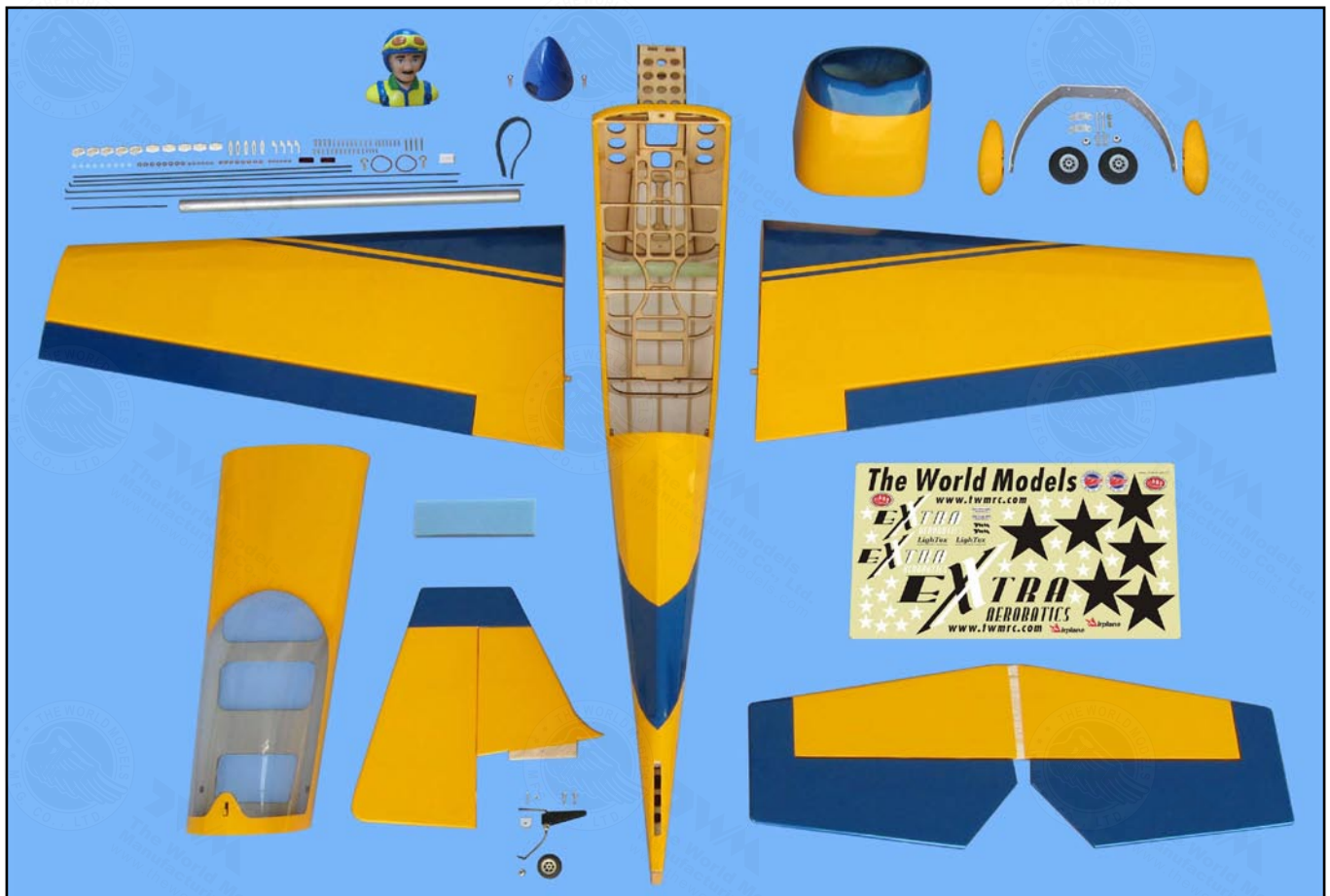


Pay close attention here!



Warning!

Do not overlook this symbol !

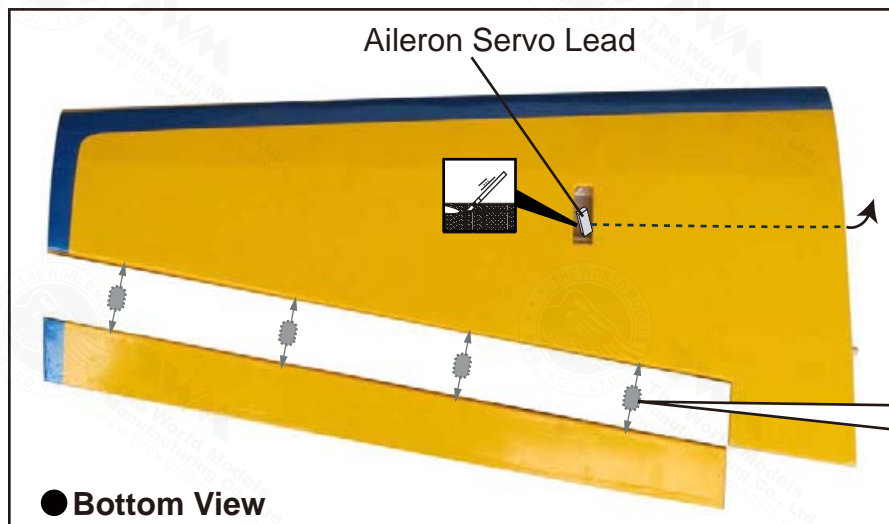


## Parts List

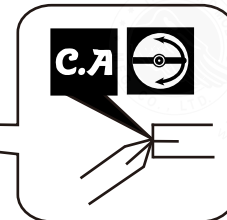
1. MAIN WING -- 1 pair
  2. SCREW PB2x16mm -- 4 pcs  
CLEVIS PL4112105 -- 2 pcs  
STRAPER PL4112106 -- 2 pcs  
FUEL TUBE d2xD4x4mm -- 4 pcs  
HORN PL4112102 -- 2 sets  
PUSHROD Ø1.4x100mm w/ Threads (For Aileron) -- 2 pcs
  3. STABILIZER & ELEVATOR -- 1 set  
FUSELAGE -- 1 pc.
  4. VERTICAL FIN & RUDDER -- 1 set
  5. TAIL LANDING GEAR PL3410031 -- 1 set  
TAIL WHEEL Ø23mm -- 1 pc.  
SCREW PA2.6x12mm -- 2 pcs  
SCREW PM2x10mm -- 1 pc.  
M2 NUT -- 1 pc.  
COLLAR Ø2.1mm w/ set screw -- 1 set  
STEERING BRACKET -- 1 pc.
  6. SCREW PB2x10mm -- 2 pcs  
CLEVIS PL4112105 -- 1 pc.  
HORN PL4112102 -- 1 set  
FUEL TUBE d2xD4x4mm -- 1 pc.  
PUSHROD Ø1.4x5548mm w/ Threads (For Rudder) -- 1 pc.
  7. SCREW PB2x10mm -- 4 pcs  
CLEVIS PL4112105 -- 2 pcs  
HORN PL4112102 -- 2 sets  
FUEL TUBE d2xD4x4mm -- 2 pcs  
PUSHROD Ø1.4x460mm w/ Threads (For Elevator) -- 2 pcs
  8. COWLING--1 pc.  
SCREW PWA2X8mm--4 pcs  
SPINNER Ø57mm--1 set  
SOCKET HEAD SCREW M3x8mm -- 4 pcs  
WASHER d3xD7mm -- 4 pcs
  9. MAIN LANDING GEAR -- 1 pc.  
MAIN WHEEL Ø40mm -- 2 pcs  
COPPER TUBE d3.1xD4x5mm -- 2 pcs  
SCREW PWA2x6mm -- 4 pcs  
SCREW PA2.6x10mm -- 3 pcs  
SCREW PM3x25mm -- 2 pcs  
M3 NUT -- 2 pcs  
WHEEL PANTS -- 1 pair  
WASHER d3xD7mm -- 4 pcs  
COLLAR Ø3.1mm w/ set screw -- 2 sets  
ALUMINUM PLATE 0.5mm -- 2 pcs
  10. EYE SCREW PA2.5x10x23mm -- 2 pcs  
WING TUBE Ø14.5x397mm -- 1 pc.  
RUBBER BAND D30x1mm PT2112601 -- 2 pcs
  11. STRAPER PL4112106 -- 2 pcs  
FUEL TUBE d2xD4x4mm -- 2 pcs  
BATTERY TIE 200mm--1 pc.  
DOUBLE-SIDED TAPE 30x35mm--1 pc.  
SPONGE 10x50x150mm -- 2 pcs  
PUSHROD Ø1.4x67mm (For Elevator) -- 1 pc.  
PUSHROD CONNECTOR 3.2x7.2x16mm (For Elevator) -- 1 set
  12. COCKPIT -- 1 set  
PILOT PC001063B -- 1 pc.
  13. DECALS: E271DEC -- 1 set
- **COVERING:**  
**LIGHTEX SGX550 PEARL BLUE**  
**LIGHTEX SGX331 CUB YELLOW**



## 1 Main Wing



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

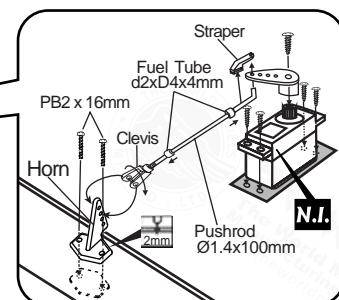


L/R

## 2 Aileron Servo

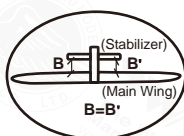
PB2x16mm Screw — 4

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



L/R

## 3 Stabilizer & Elevator

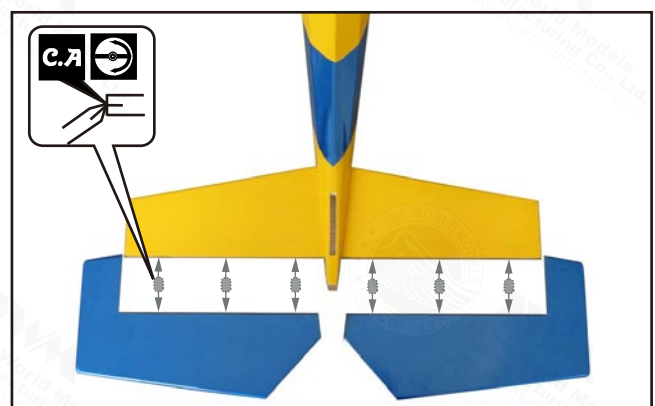
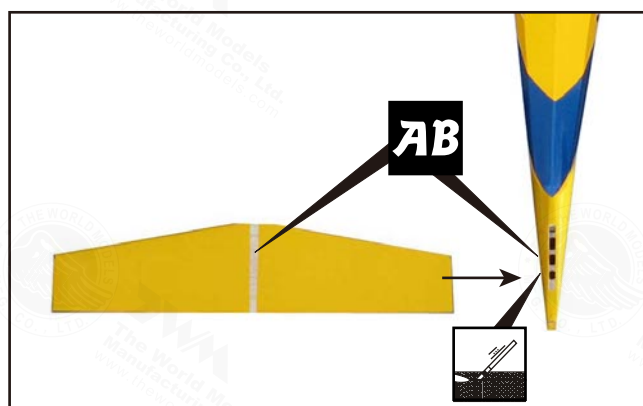


Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.

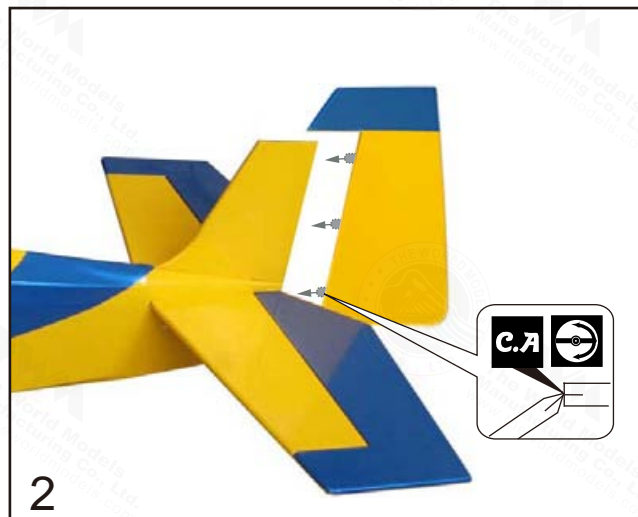
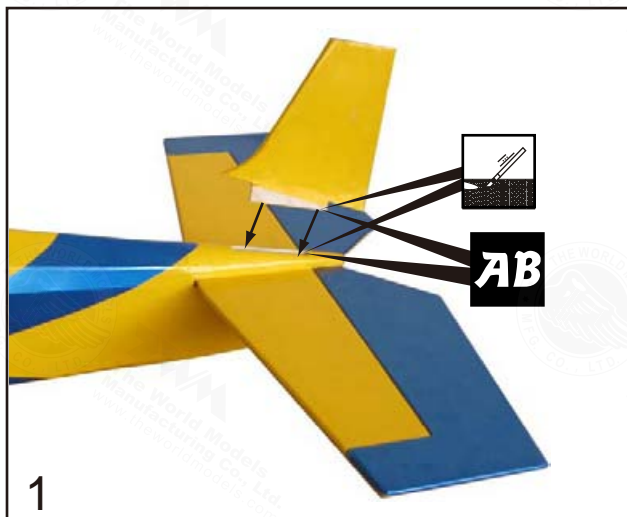
\*Also refer to step 13 Wing Setting\*



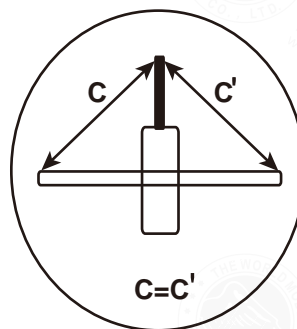
● Apply instant type CA glue to both sides of each hinge.



#### 4 Vertical Fin & Rudder

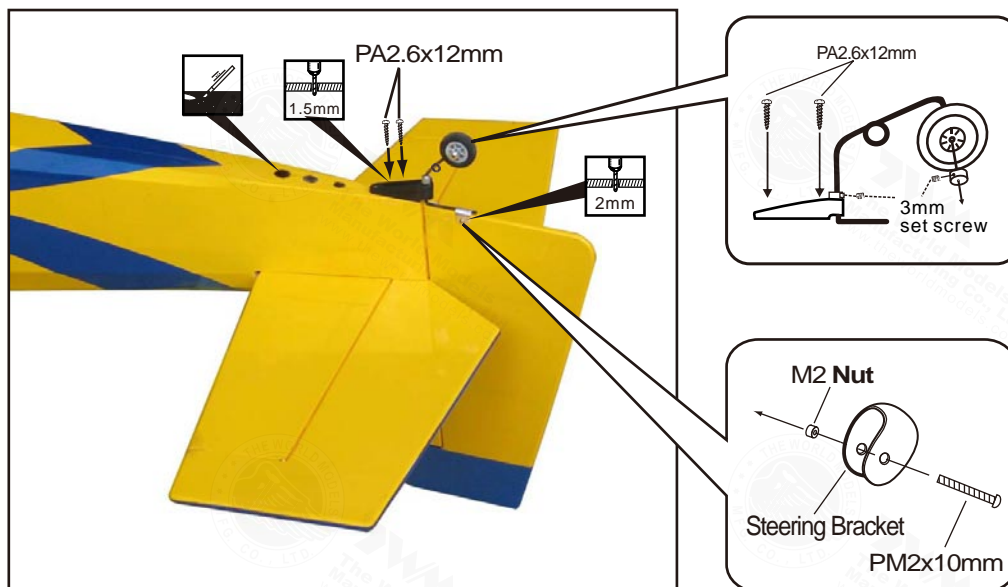


● Apply instant type CA glue to both sides of each hinge.



#### 5 Tail Landing Gear

PA2.6x12mm Screw	2
PM2x10mm Screw	1
M2 Nut	1
2.1mm Collar	1



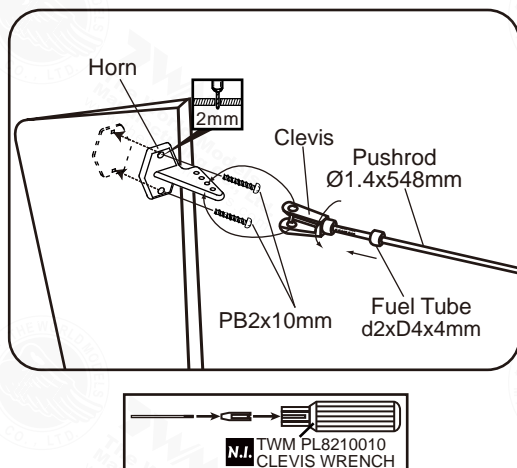
● Bottom View

## 6 Rudder Pushrod

PB2x10mm Screw



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



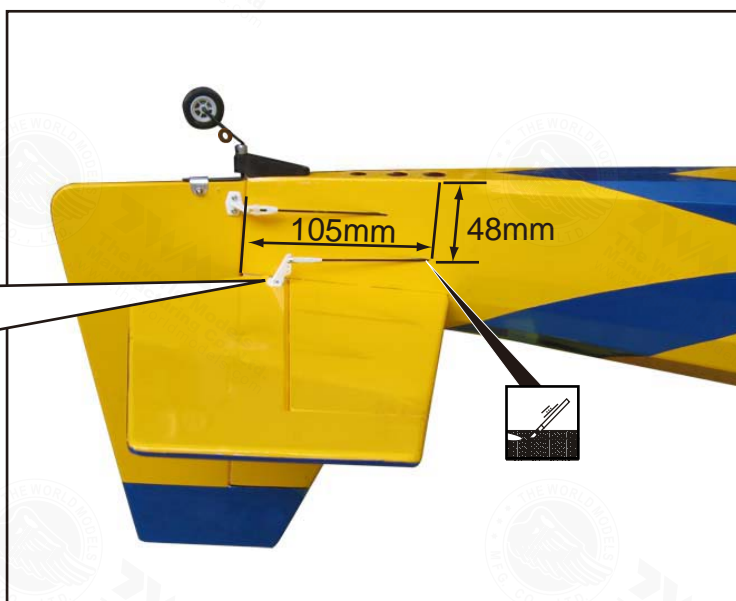
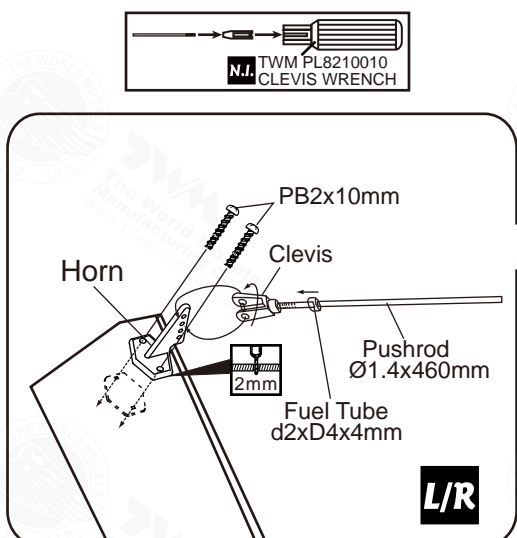
● Bottom View

## 7 Elevator Pushrod

PB2x10mm Screw



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



● Bottom View

## 8 Outrunner Motor / Cowling

M3x8mm **Socket Head Screw**



PWA2x8mm **Screw**

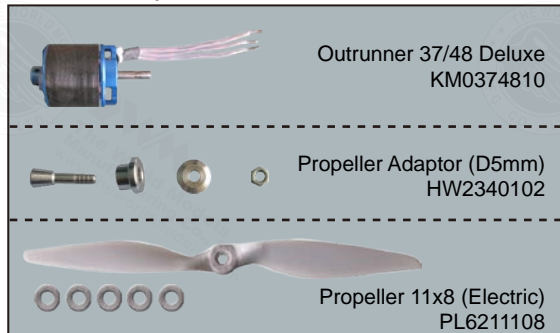


d3xD7mm **Washer**



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

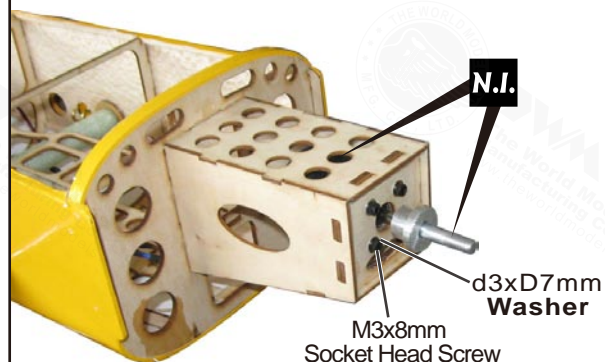
1 Installation based on optional electric power package from World Models, parts no. E271 EPTS.



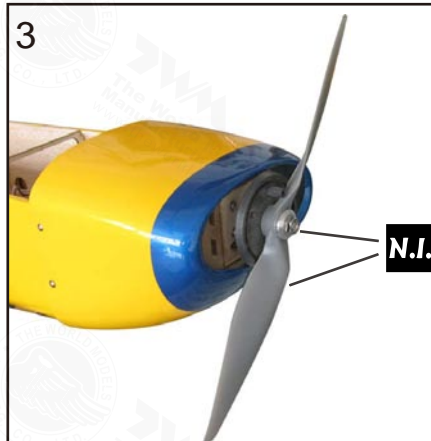
E271 EPTS

N.I. Optional Parts

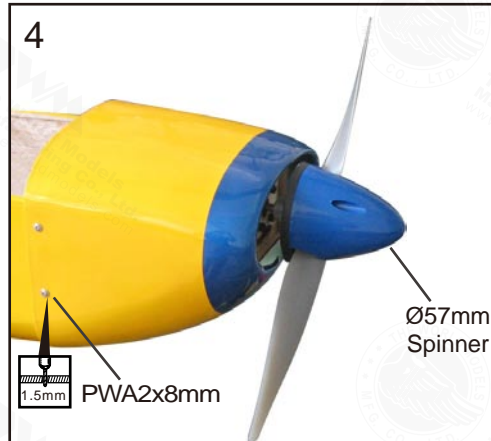
2



3



4



## 9 Main Landing Gear

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

PA2.6x10mm **Screw**



PM3x25mm **Screw**



M3 Nut



PWA2x6mm **Screw**



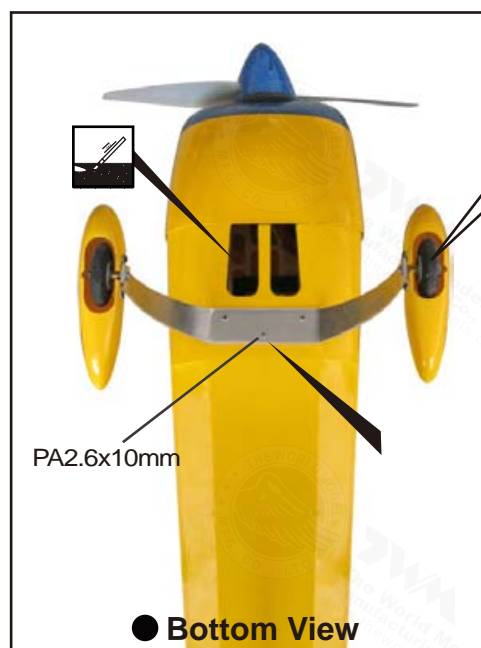
d3xD7mm **Washer**



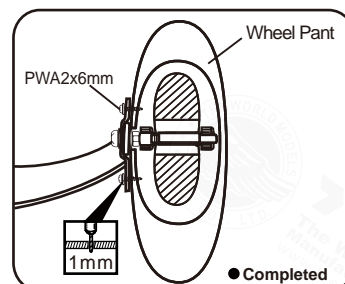
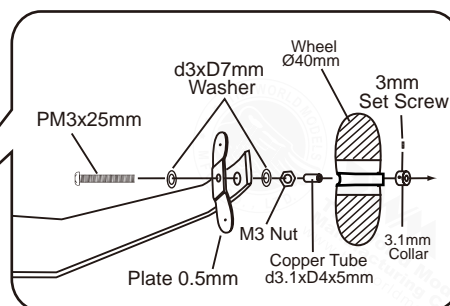
3.1mm **Collar**



d3.1xD4x5mm **Copper Tube**



● Bottom View

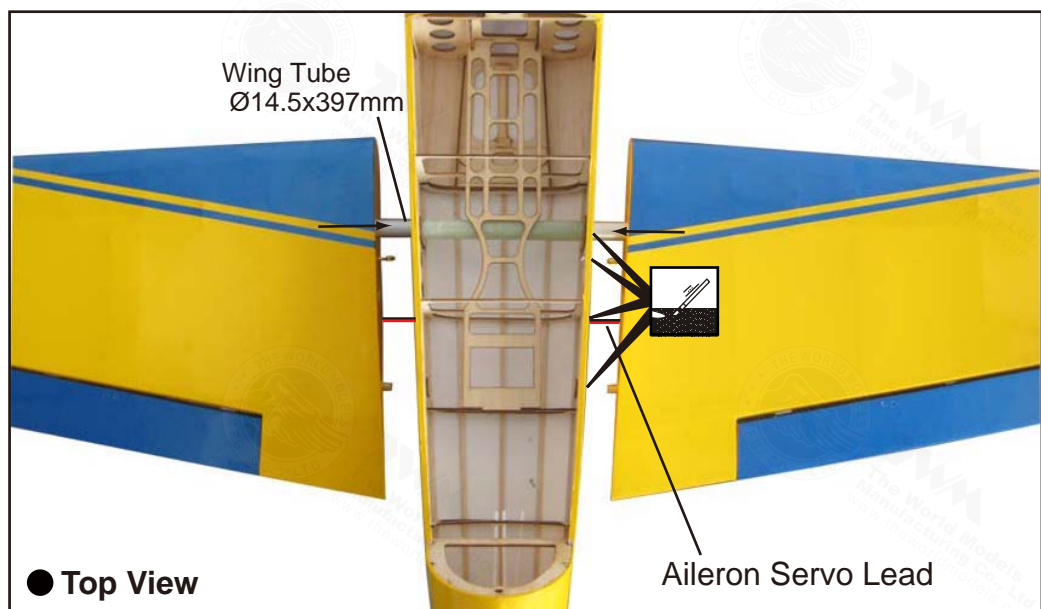
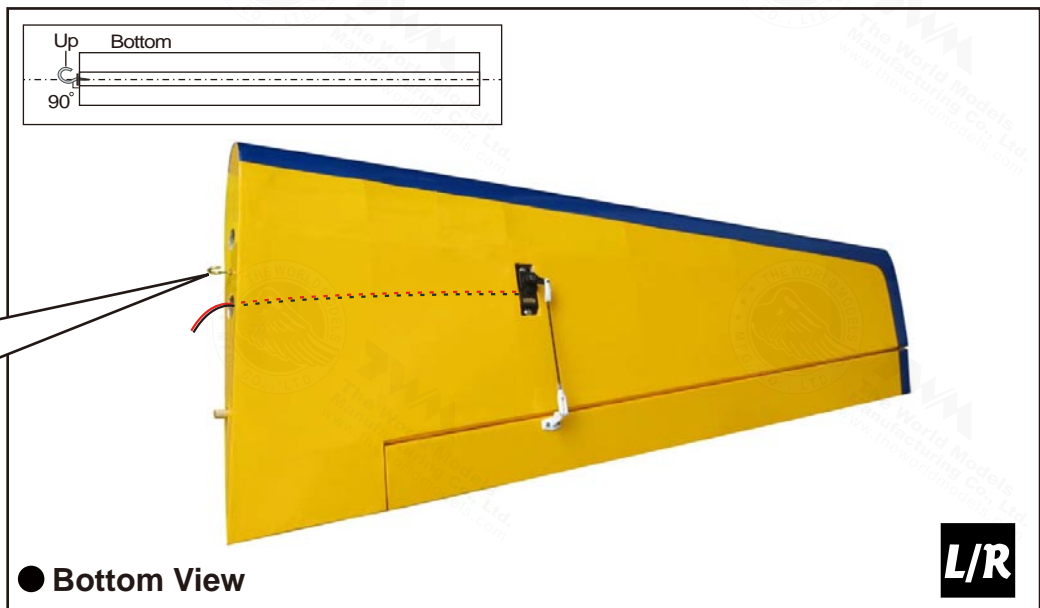
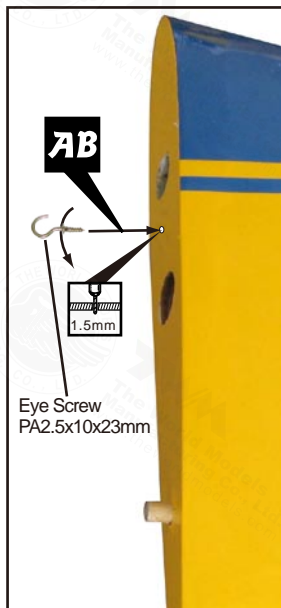


● Completed

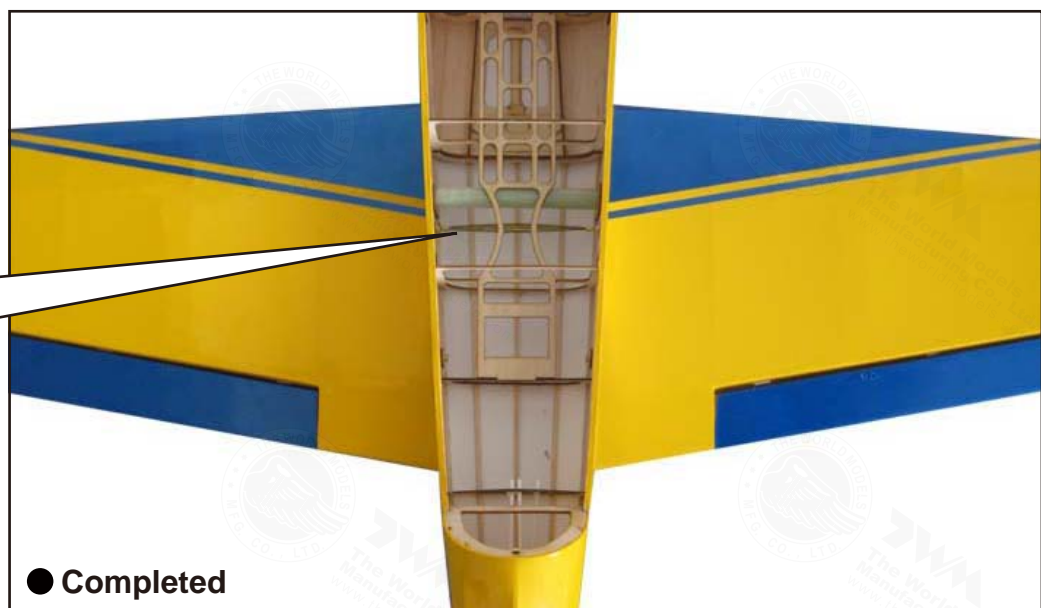
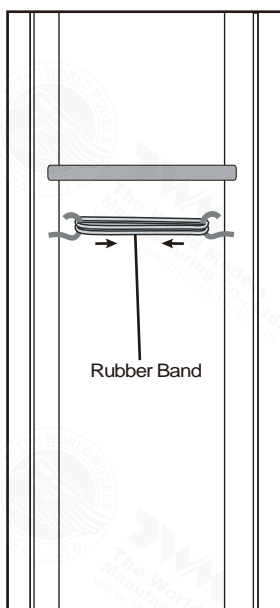
L/R



## 10 Main Wing

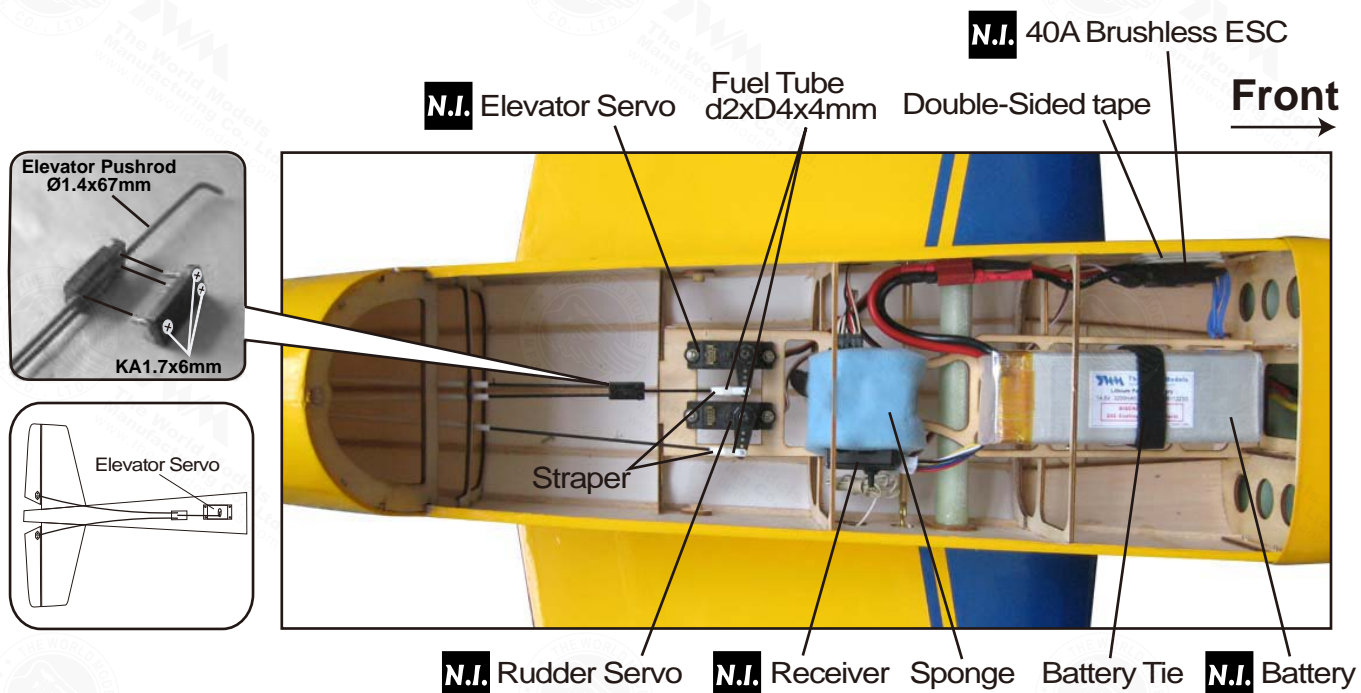


**L/R**

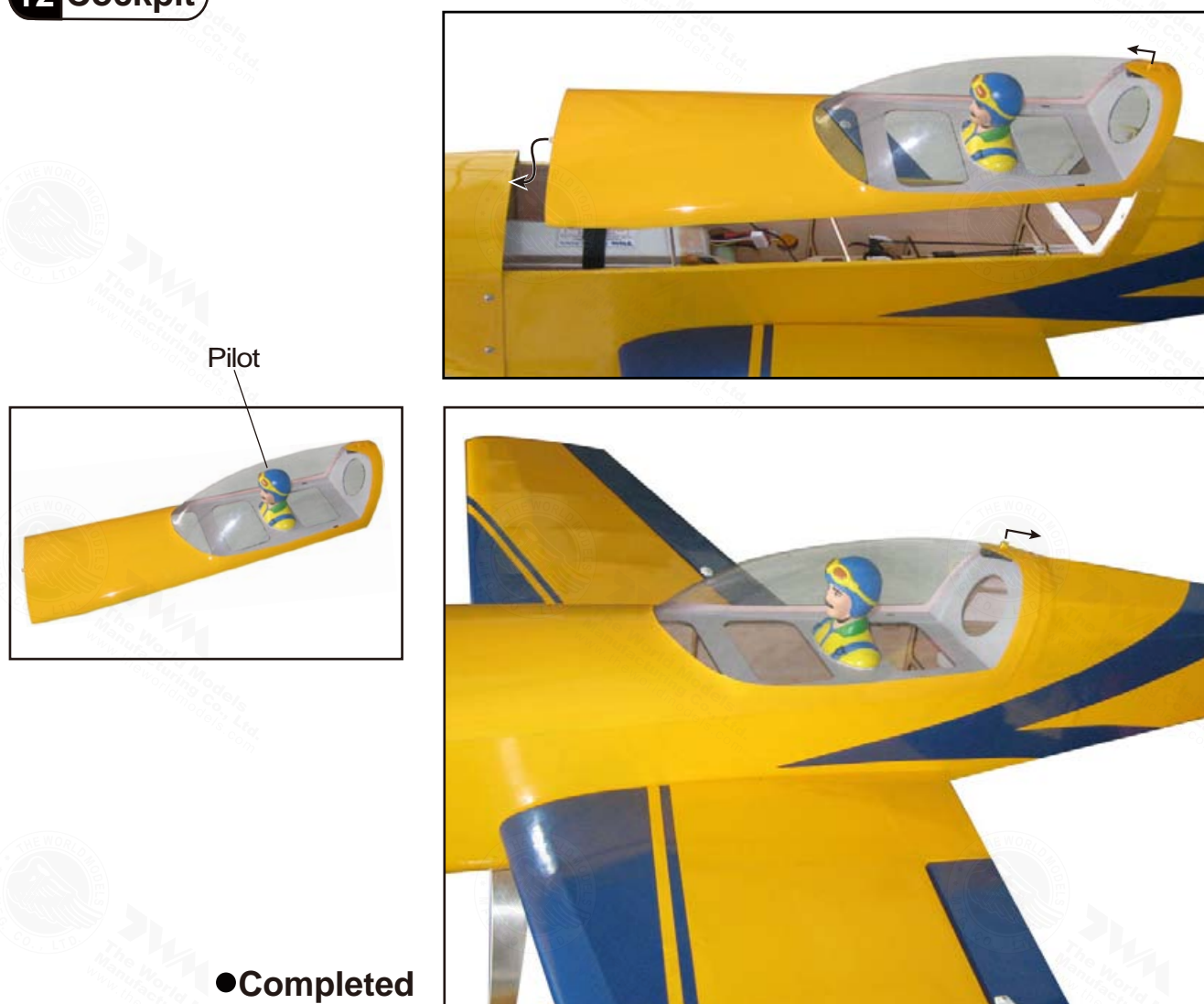




## 11 Radio Equipment ● Install and arrange the servo as shown in the diagram.

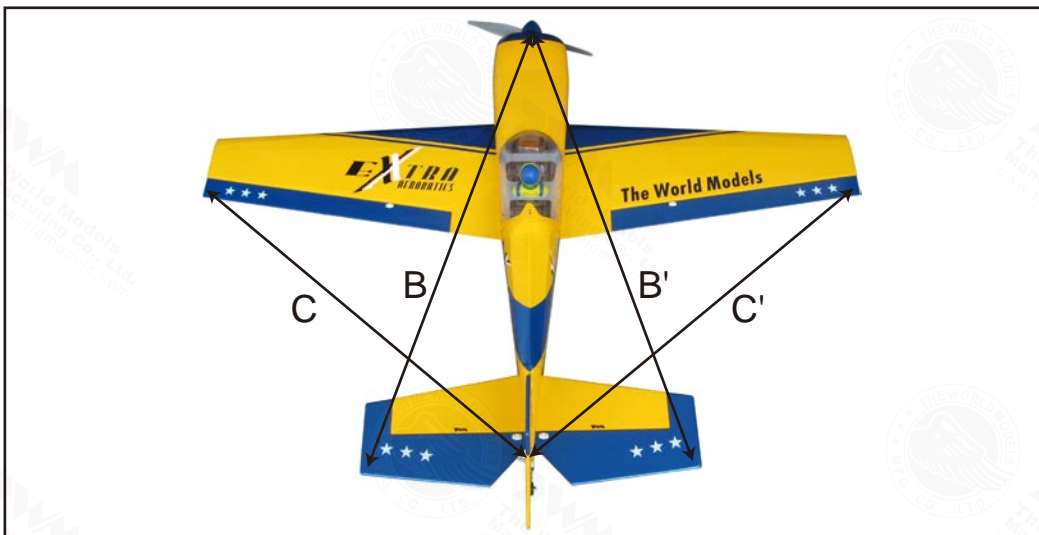
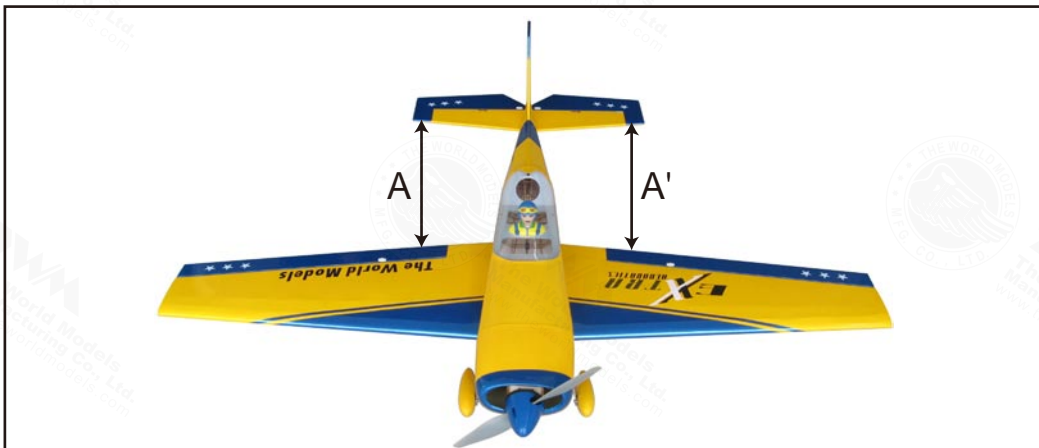


## 12 Cockpit



### 13 Wing Setting

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



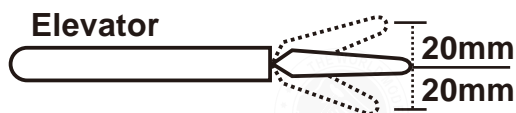
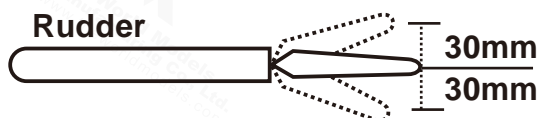
$$A=A'$$

$$B=B'$$

$$C=C'$$

## 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 80mm (3.15 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.



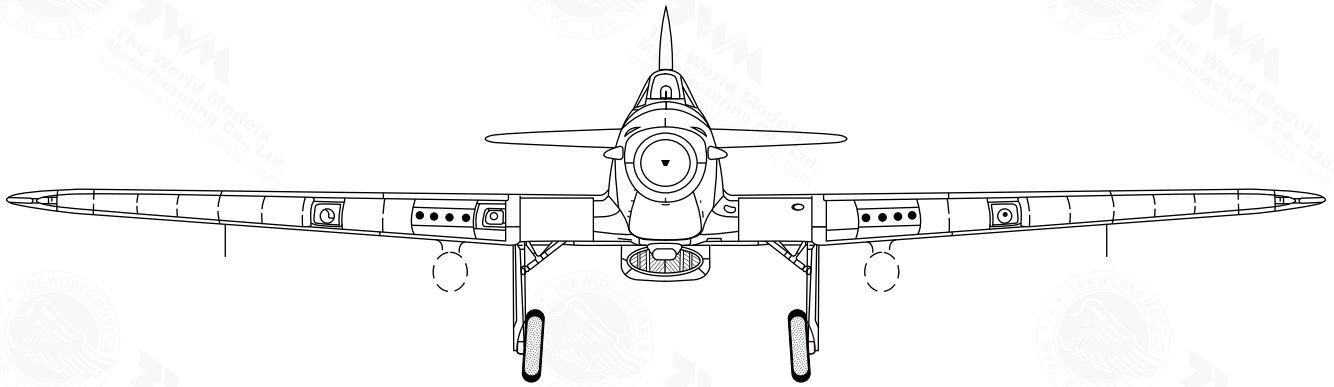
<http://www.theworldmodels.com/para/instruction/instructionManuals.php>

## ! 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.
- # **Extra 300 EP (40)** is specially designed to be powered by **450W Motor System**.
- # 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.
- # Check and re-tighten up all factory assembled screws, use thread locker if necessary.





**Ducted Fan**

**Pattern**

**Warbirds**

**Funfly**

**Scale**

**Electric**

**Sports**

**Glider**

**Trainer Boat**

**Accessories**

**Covering**

**(Lightex / Toughlon)**



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