

OUTRAGEOUS & SCARLET SCREAMER (E337XM)

Designed by Jerry Small and Dan Kane



Requires: 4-channel radio w/ 4 mini servos. Outrunner Motor KM37490750 w/ Propeller Adaptor HW2340300 40A Brushless ESC, 11x8E Propeller, 4 cells 14.8V 3200 mAh Li-Po battery & charger.

Specifications

Wing Span	52.2 in / 1325 mm
Wing Area	392 sq in / 25.3 sq dm
Flying Weight	3.4 lb / 1540 g
Fuselage Length	38.6 in / 980 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.



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

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

OUTRAGEOUS & SCARLET SCREAMER

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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!



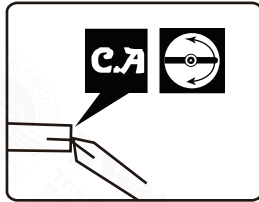
Do not overlook this symbol !



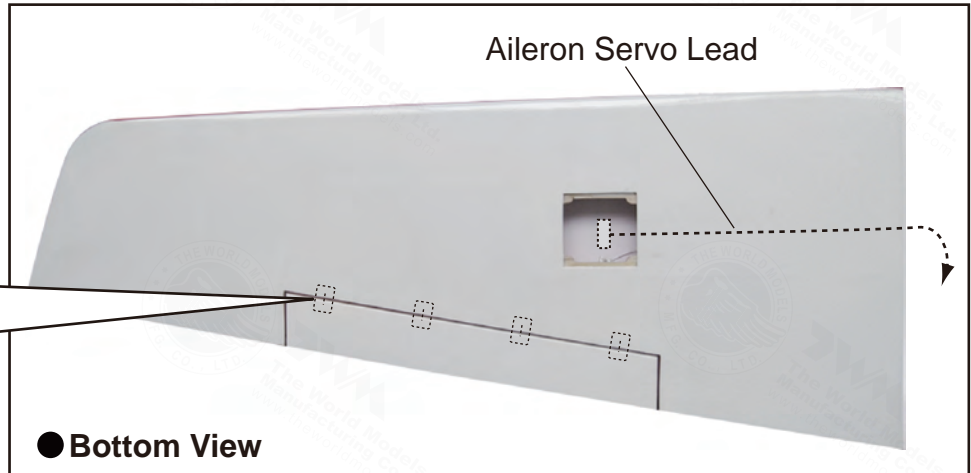
- E337XMPO31131512

1 Main Wing

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



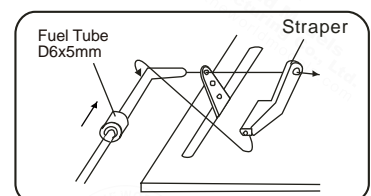
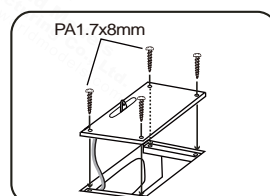
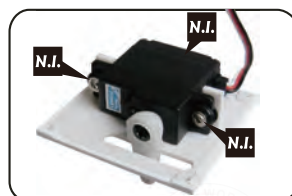
L/R



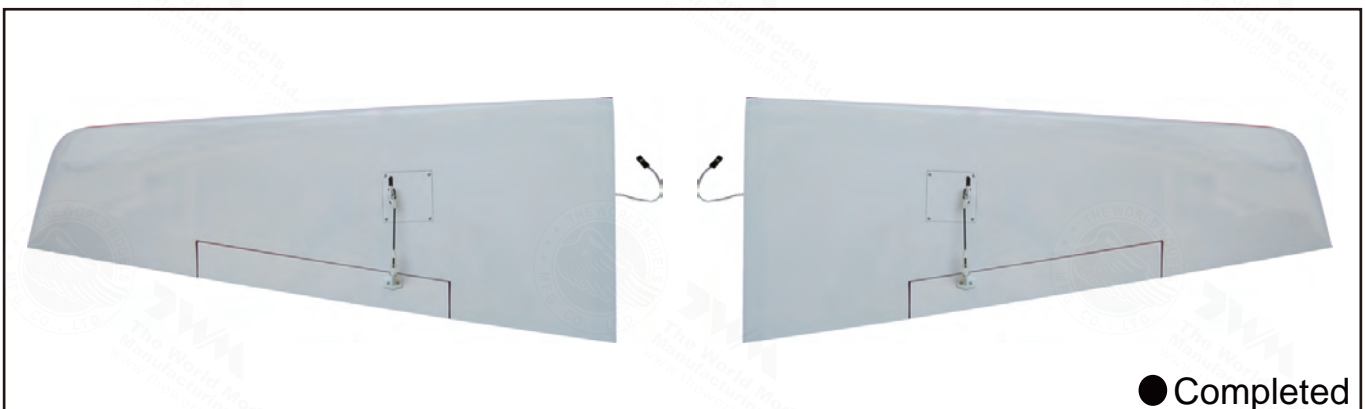
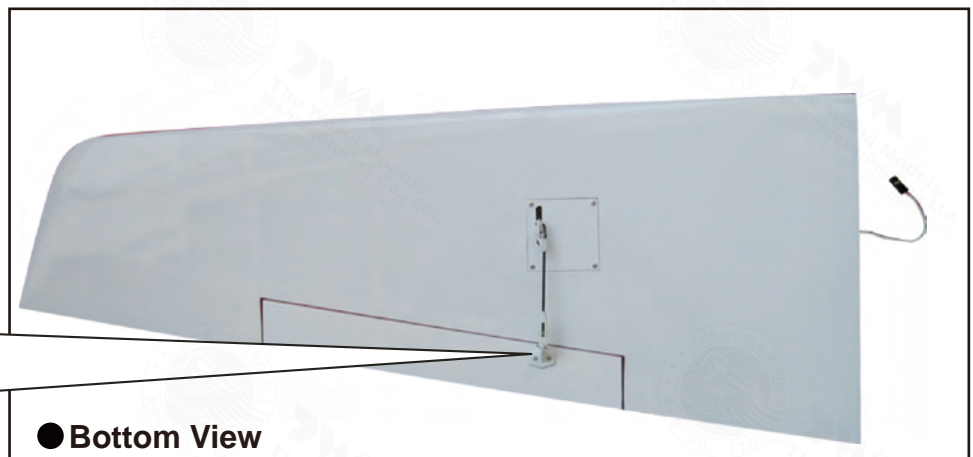
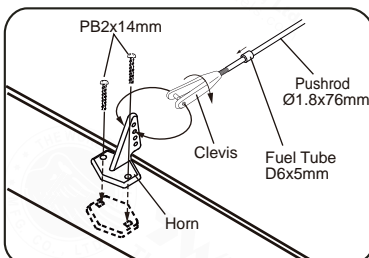
2 Aileron Servos

PB2x14mm Screw — 4
PA1.7x8mm Screw — 8

- 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 , Vertical Fin & Rudder

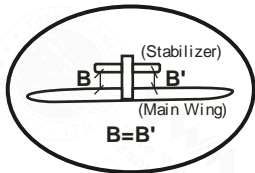
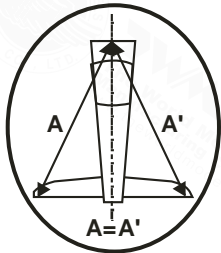
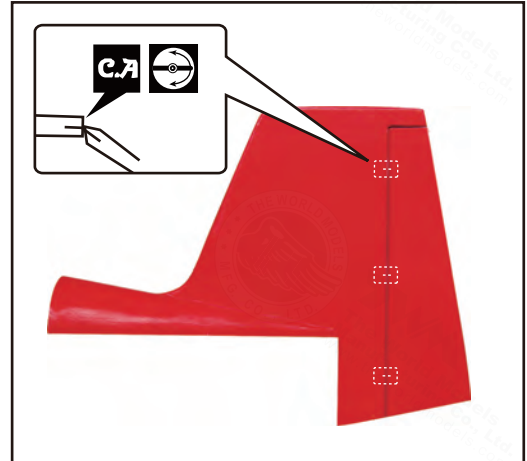
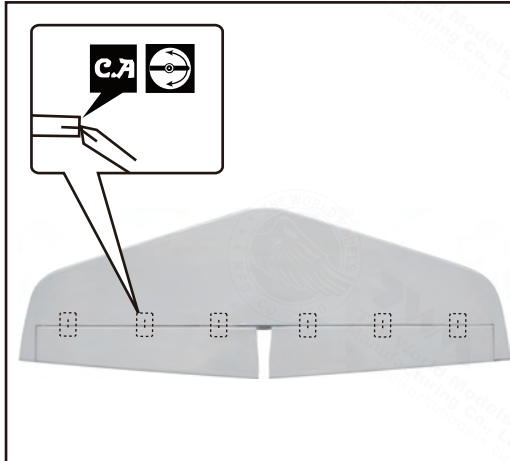
M3x20mm Socket Head Screw



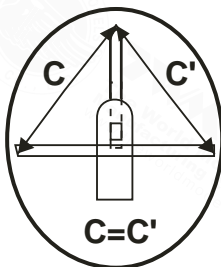
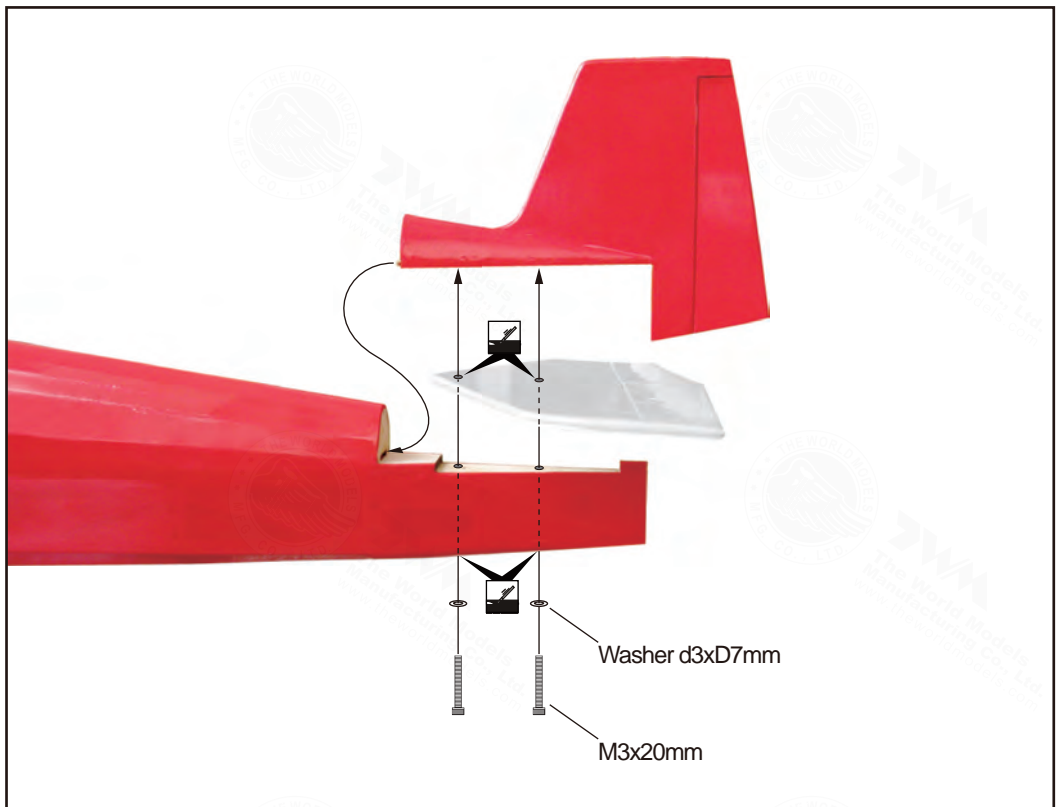
d3xD7mm Washer



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

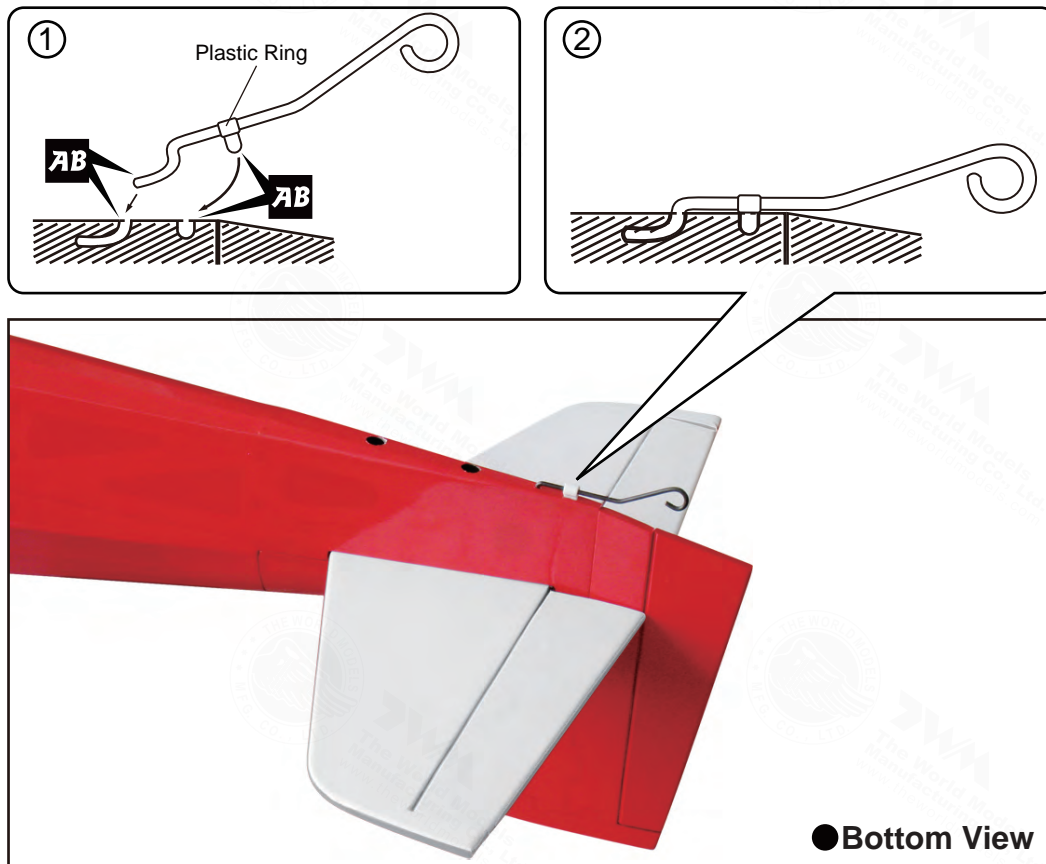


- Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible



● Completed

4 Tail Landing Gear



5 Main Landing Gear

PM4x40mm Screw



M4x16mm Socket Head Screw



KA2.3x8mm Screw



d2xD8mm Quick Release Nylon Rivet



M4 Nut



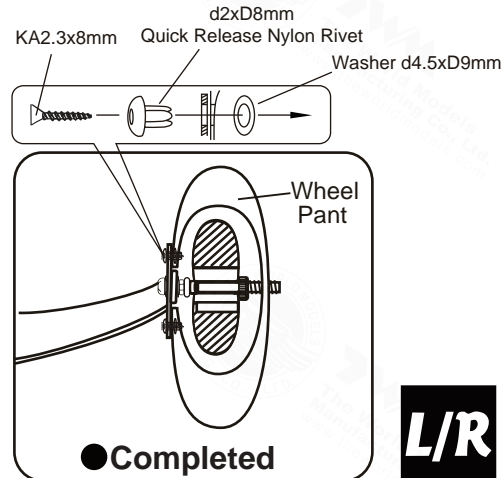
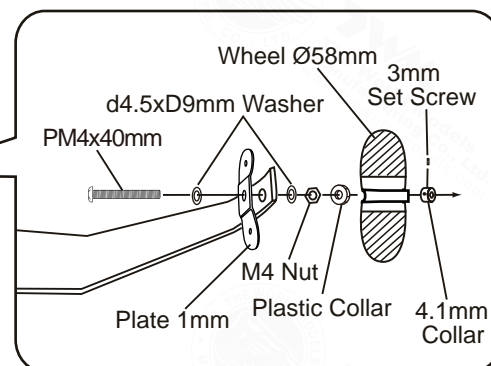
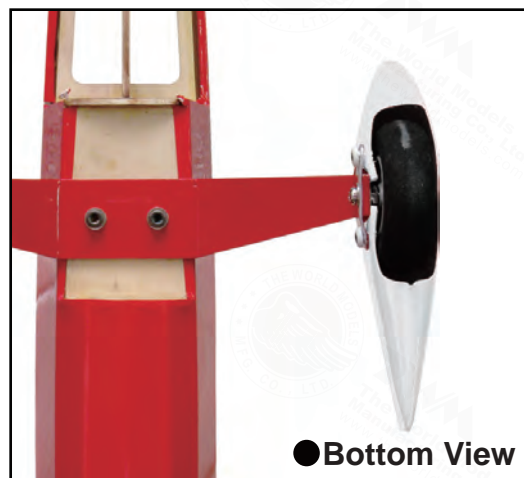
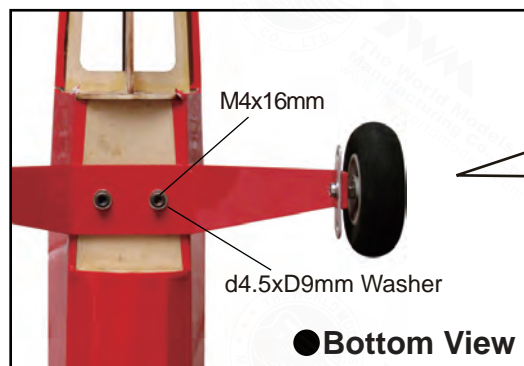
d4.5xD9mm Washer



4.1mm Collar



d4.1xD8mm Plastic Collar

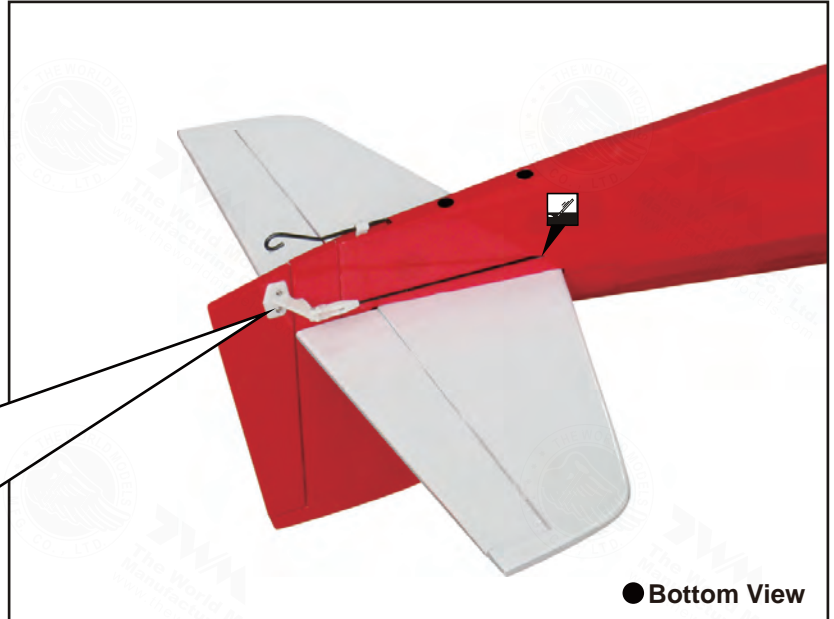
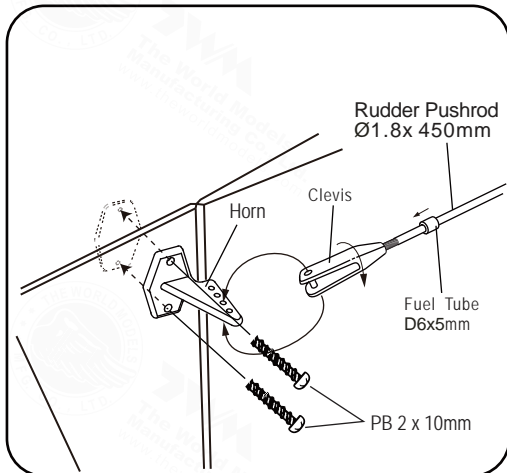


6 Rudder Pushrod

PB2x10mm Screw



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

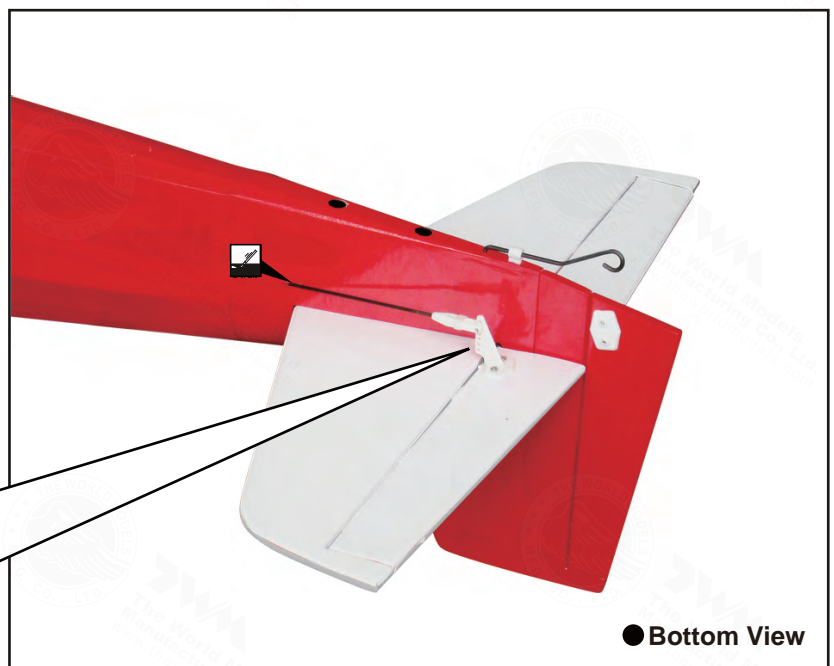
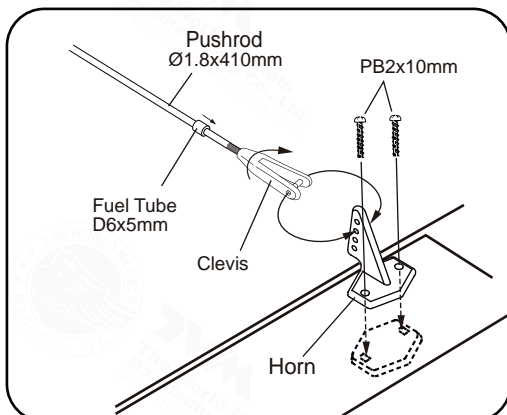
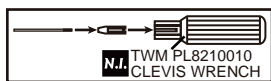


7 Elevator Pushrod



PB2x10mm Screw

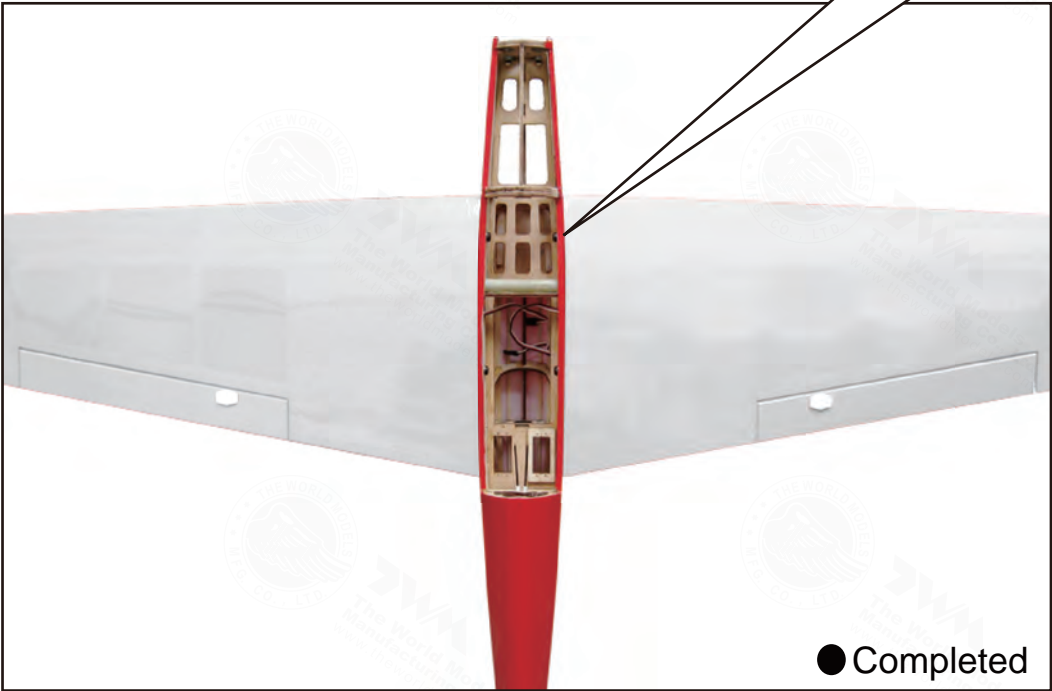
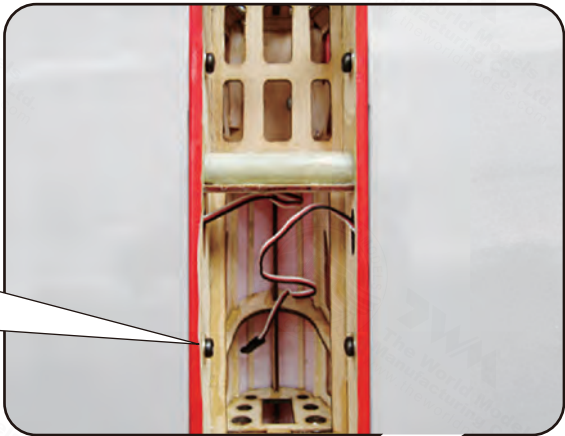
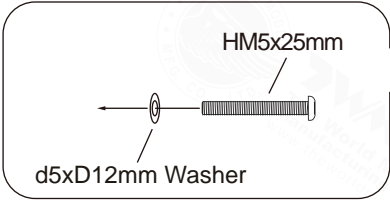
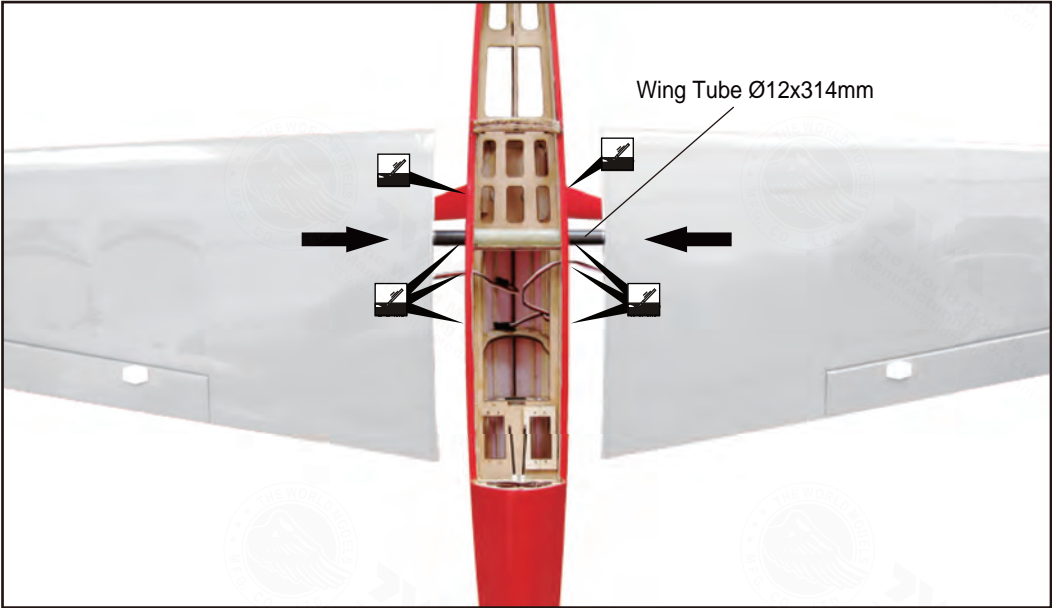


- Ø1mm pilot holes for World Models horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.





8 Main Wing


HM5x25mm	Screw
	4
d5xD12mm	Washer
	4





9 Outrunner Motor / Cowling

PWA2.3x8mm Screw

4


d1.5xD6.5mm Silicon Grommet

4

Outrunner Motor 37/ 49 - 750kv
KM37490750


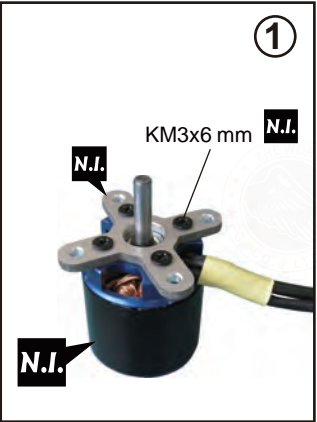
Propeller Adaptor
HW2340300


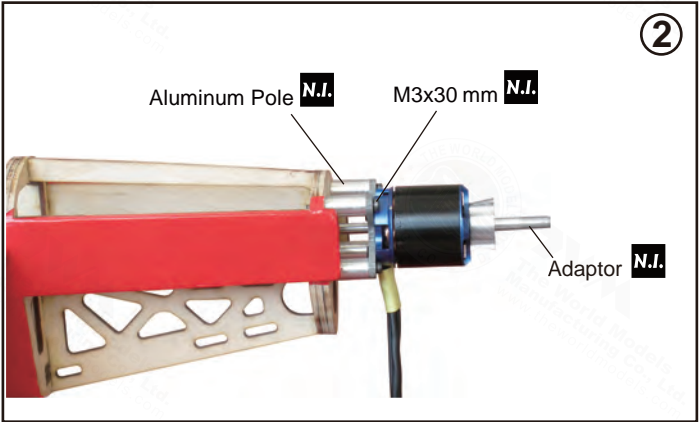

11x8E Propeller PL6211108

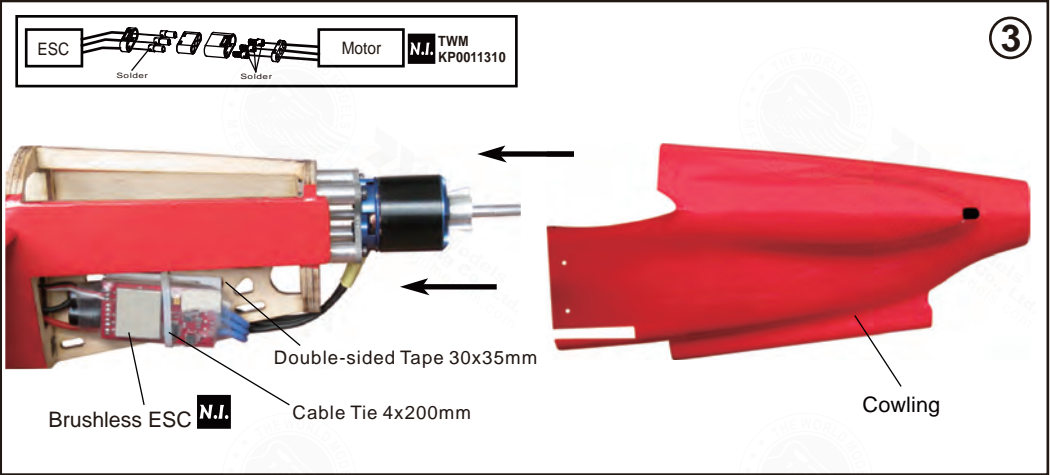

X-Mount Plate/Pole

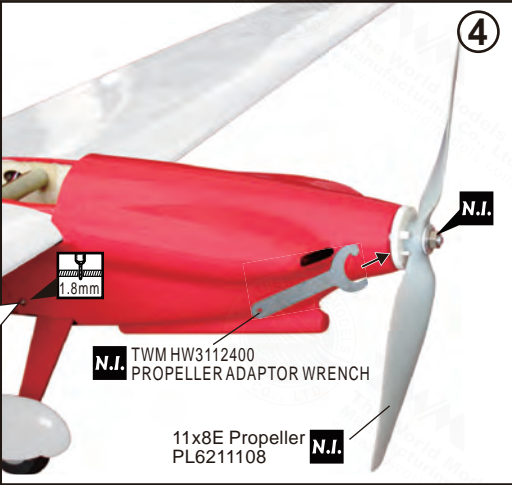

TWM HW3112400
PROPELLER ADAPTOR WRENCH

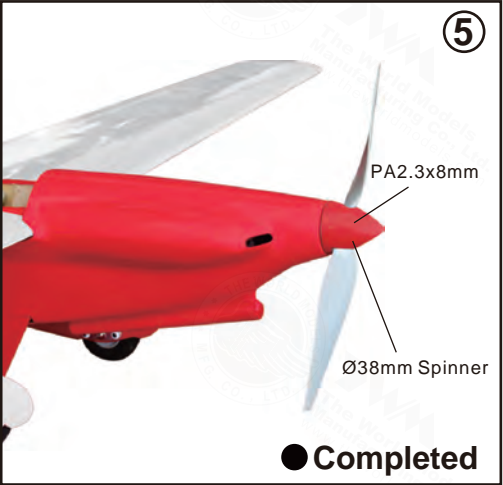
- Make sure rotating motor casing is not in contact with wirings or anything.
- Don't over-tighten the M3 screws, too much stress on the screws could split the firewall.

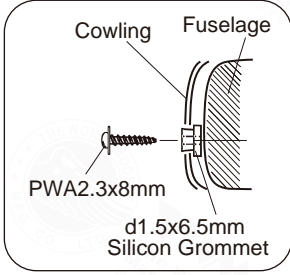

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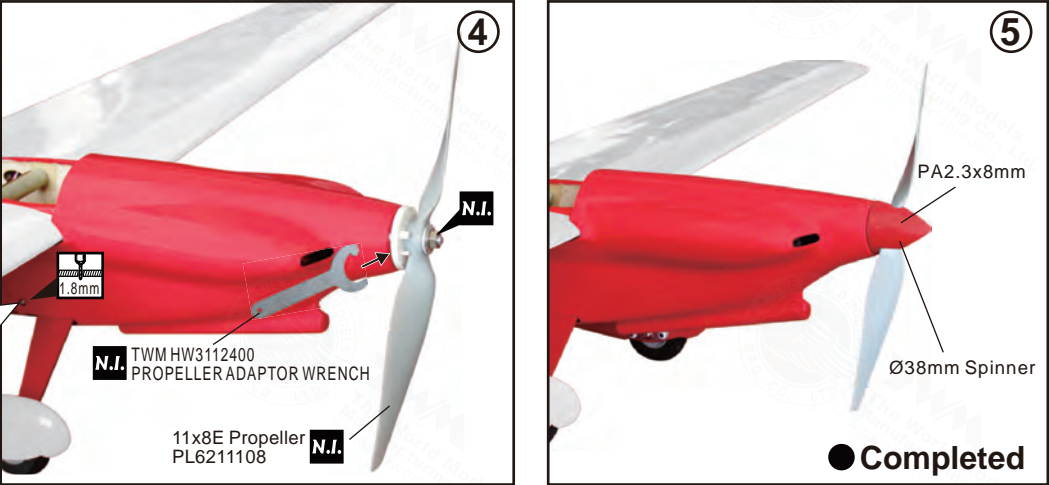

2


3


4

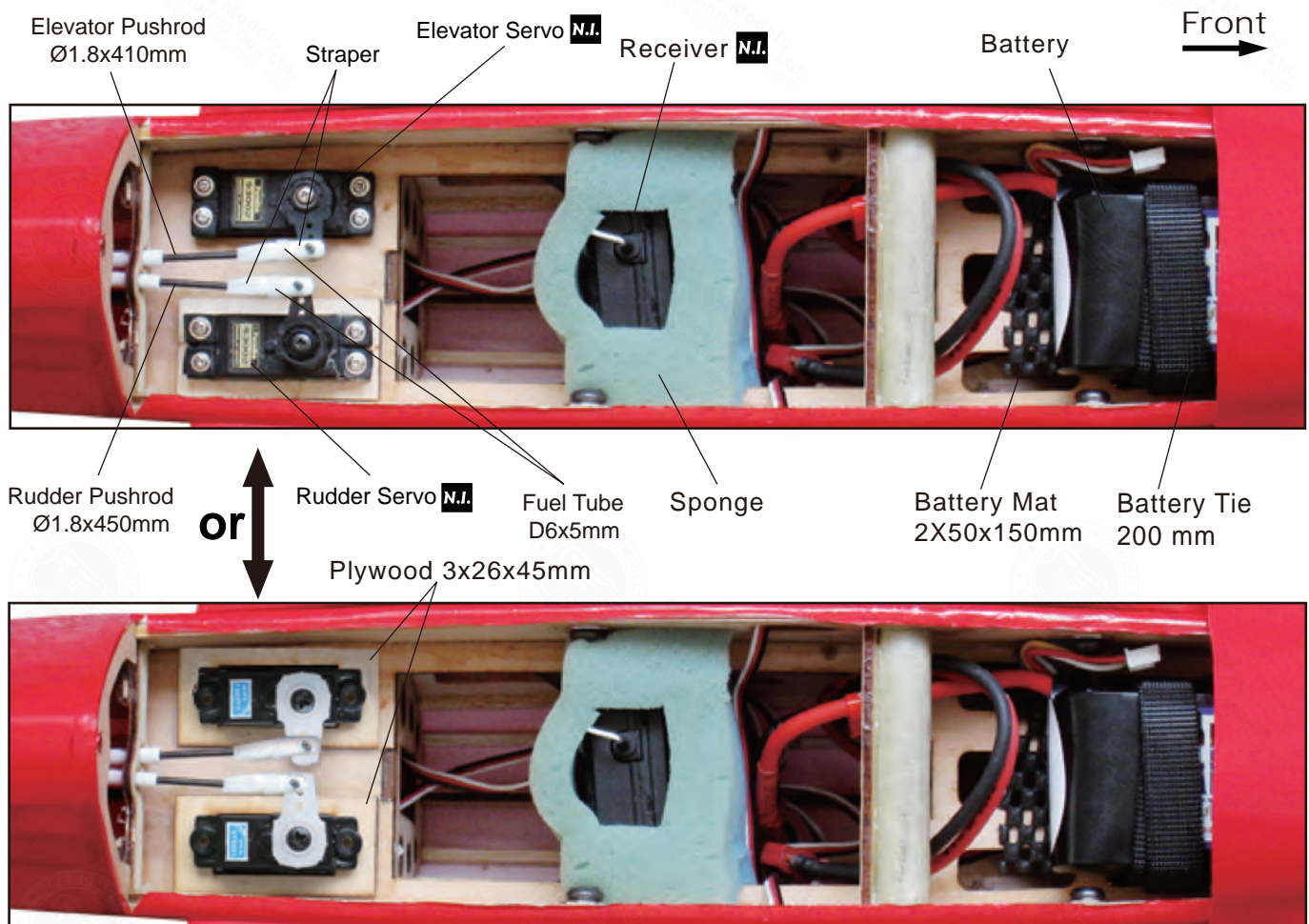

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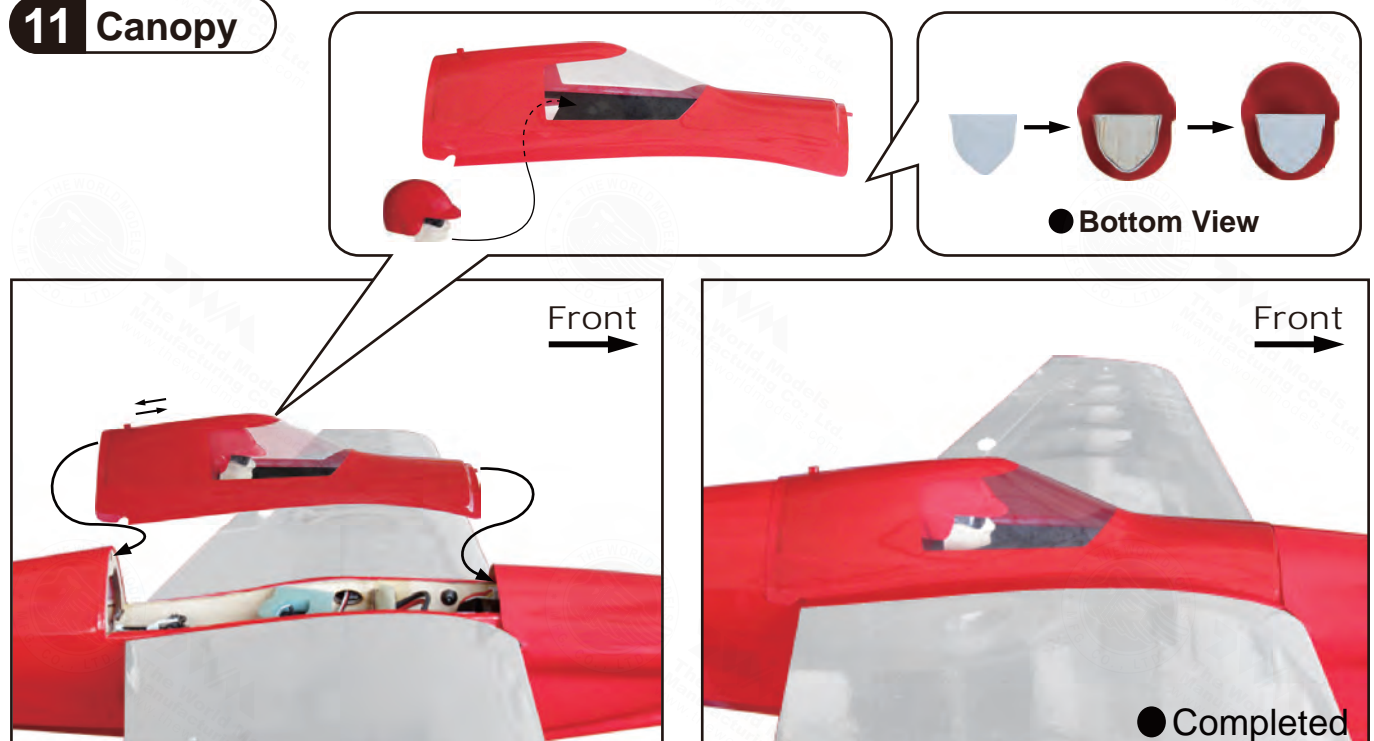


10 Radio Equipment

- Install and arrange the servos as shown in the diagram.



11 Canopy

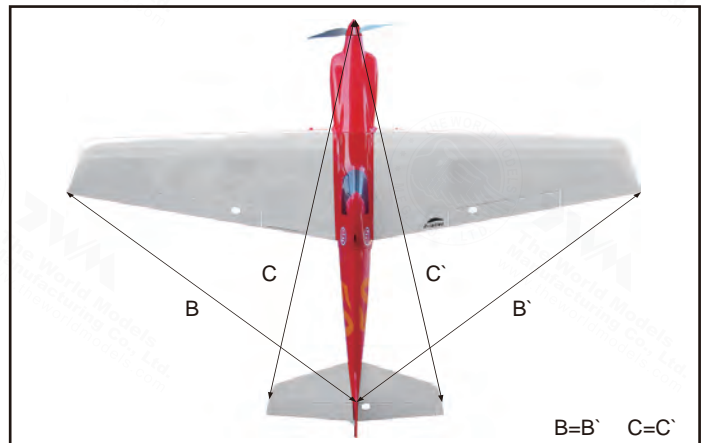


12 Wing Setting

● SCARLET SCREAMER

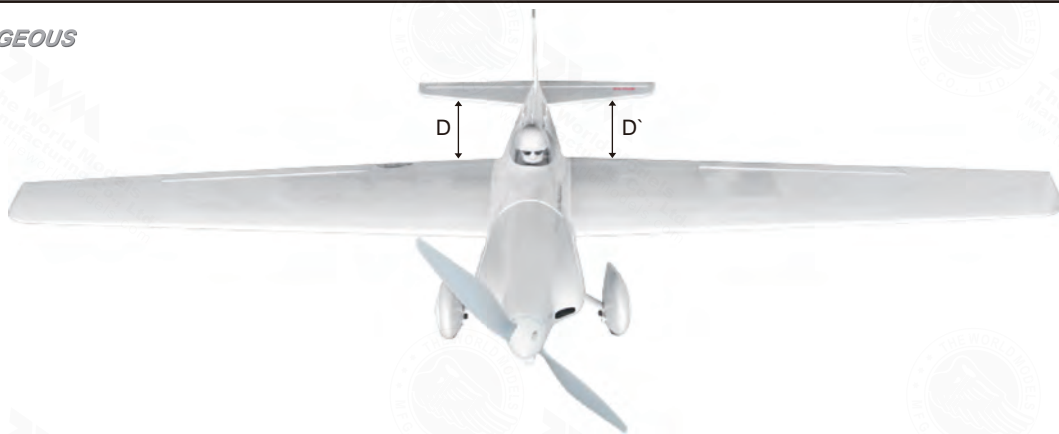


$$A=A'$$

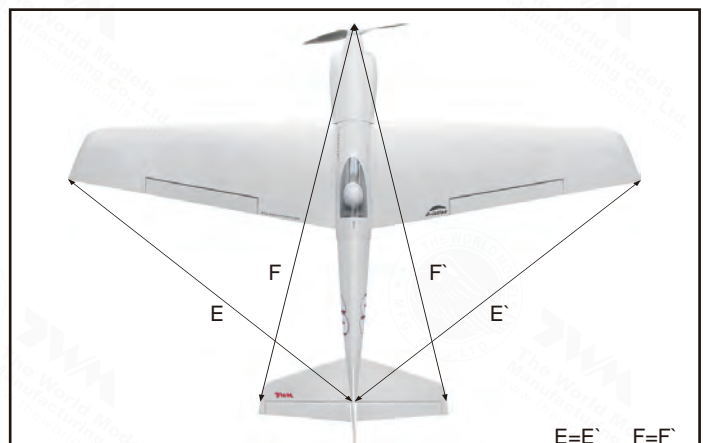


$$B=B' \quad C=C'$$

● OUTRAGEOUS



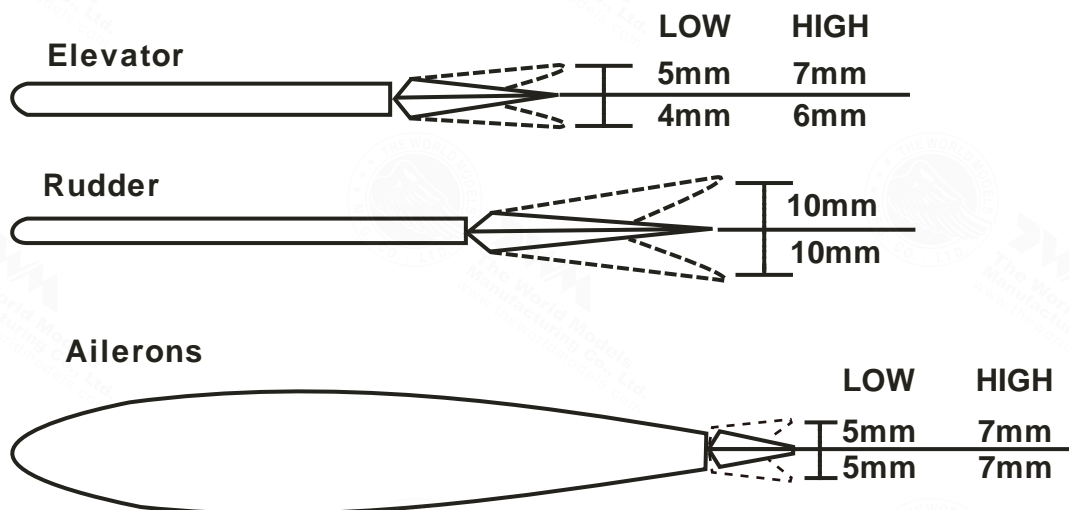
$$D=D'$$



$$E=E' \quad F=F'$$

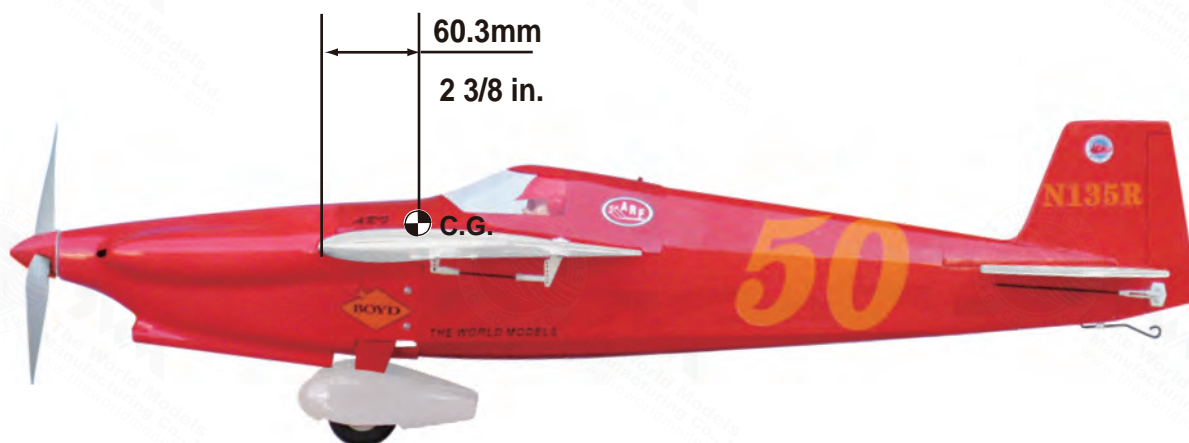
13 Control Throws

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



14 C.G.

- The ideal C.G. position is 60.3mm (2 3/8 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.



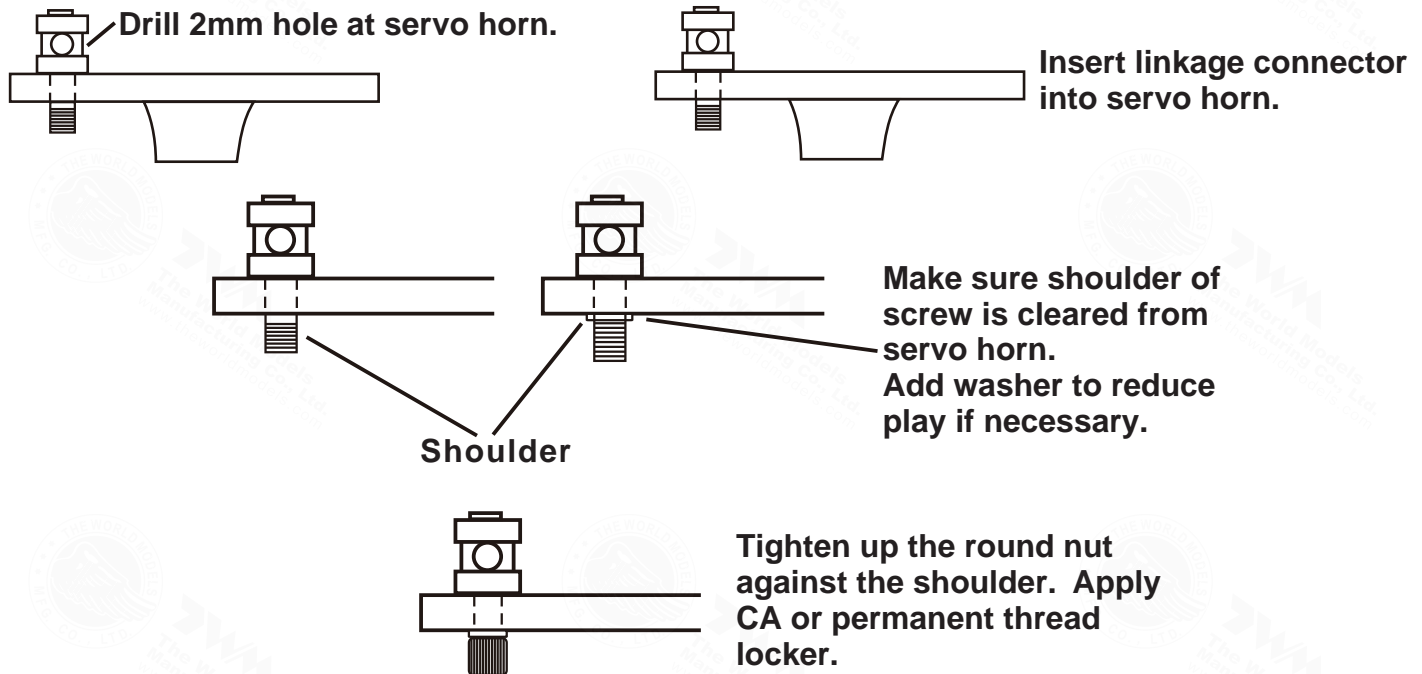
Warning!

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.
- OUTRAGEOUS & SCARLET SCREAMER** is specially designed to be powered by **KM37490750 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

(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

EZ Connector Puller

Code No.	Size	Package
PL8210030		1 set



40A Brushless ESC (2-4S)

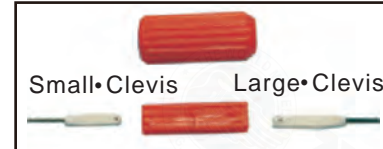
Code No.	Size	Package
KC2040A02A	65 x 25 x 12mm	1 pc



-Current : 40A continuous
 -Burst current (< 10 seconds) : 55A
 -Weight : 43g (with wires)
 -BEC output : Switch 5V / 3A
 -Input :
 Li - ion / Li - poly 2 - 4 cells;
 Nimh / Nicd 5 - 12 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

Code No.	Size	Package
HW3112400		1 pc

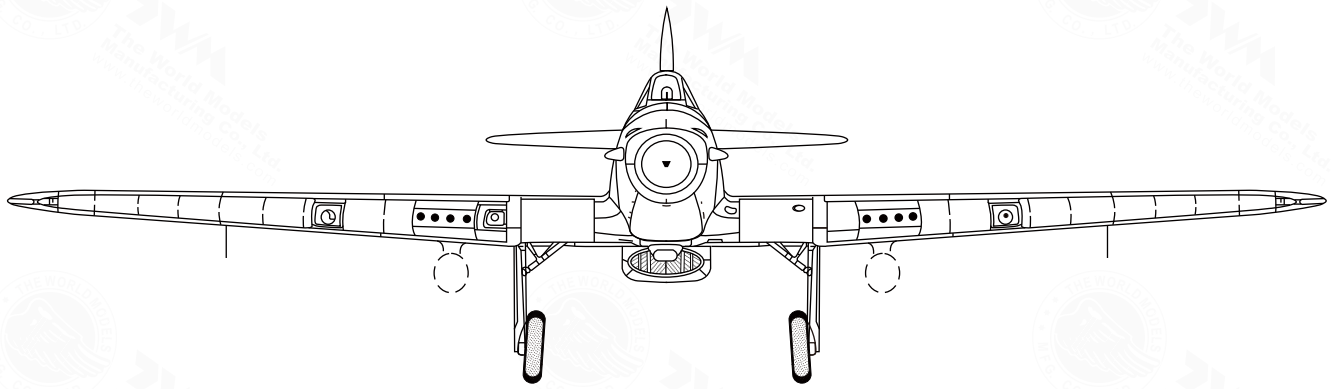


Outrunner Motor 37 / 49 -750kv

Code No.	Package
KM37490750	1 pc



-Kv (rpm / V): 750
 -Operating Power: 590 W
 -Operating Voltage: 8.5 - 18V
 -Operating Current: 40A
 -Peak Current: 65A (max.15 sec.)
 -Internal Resistance: 34 m ohms
 -Diameter: 37.2 mm
 -Length: 49.4 mm
 -Weight: 183 g
 -Shaft Diameter: 5 mm
 -Shaft Length: 20.6 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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