# 28% FXTRA 330 L





# 60cc gasoline engine

Requires: 4-channel radio w/ 6 high torque servos

#### Specifications

Wing Span
Wing Area
Flying Weight
Fuselage Length

90.0 in / 2290 mm

1482 sq in / 95.6 sq dm

18.5 lbs / 8400 g

79.5 in / 2020 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.



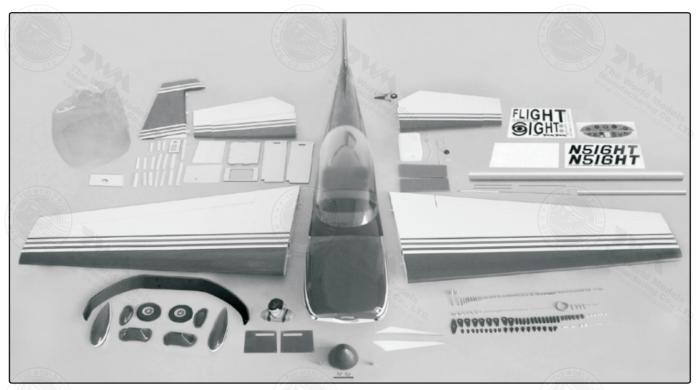
# **28%EXTRA** 330 L

## INDEX-

BEFORE YOU BEGIN	P. 1
PARTS LIST	P. 2
ASSEMBLY	P. 3 - 11
SAFETY PRECAUTIONS	P. 11

## 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.
- 3 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.I. Must be purchased separately!
- L/R 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 METAL HINGES -- 10 pcs 2.SCREW PM4x60mm -- 2 pcs M4 NYLON INSERT LOCK NUT -- 2 pcs SCREW PWA2x8mm -- 8 pcs PUSHROD 2.5x95mm w/Threads (For Aileron) -- 2 pcs HEAVY DUTY SERVO HORN PL4120250 -- 2 sets HEAVY DUTY HORN BRACKET -- 2 sets HEAVY DUTY CLEVIS PL4112200 -- 4 sets

3.FUSELAGE -- 1 pc. STABILIZER & ELEVATOR -- 1 set SCREW PA3x16mm -- 2 pcs WASHER d3xD7mm -- 2 pcs STABILIZER TUBE 16x321mm -- 1 pc.

METAL HINGES -- 3 pcs

SCREW PA3x12mm -- 2 pcs RUDDER WHEEL 30mm -- 1 pc.

6.SCREW M4x80mm -- 1 pc.

EYE SCREW M2.5x8x25mm w/Threads (For Rudder) -- 2 pcs

HEAVY DUTY CLEVIS PL4112200 -- 2 sets

HEAVY DUTY HORN BRACKET -- 2 sets

7.PUSHROD 2.5x132mm w/Threads (For Elevator) -- 2 pcs

HEAVY DUTY CLEVIS PL4112200 -- 4 sets HEAVY DUTY HORN BRACKET -- 2 sets

HEAVY DUTY SERVO HORN PL4120250 -- 2 sets

8.MAIN LANDING GEAR -- 1 set

AXLE SHAFT 4x60mm (For Main Wheel) -- 2 pcs

SWIVEL CLEVIS HORN FAIRING PL4610010 -- 2 sets

SERVO MOUNTING PANEL (For Aileron Servos) -- 1 pair

METAL HINGES -- 6 pcs

4.VERTICAL FIN & RUDDER -- 1 set

5.TAIL LANDING GEAR -- 1 set

COLLAR 2.6mm w/set screw -- 1 set

M4 NYLON INSERT LOCK NUT -- 2 pcs

WIRE 1x1000mm (For Rudder) -- 2 pcs COPPER TUBE d2.5xD3.2x8mm (For Rudder) -- 2 pcs

SWIVEL CLEVIS HORN FAIRING (Pull-Pull Syetem) PL4610020 -- 1 set

SCREW PM4x50mm -- 2 pcs M4 NYLON INSERT LOCK NUT -- 2 pcs

SWIVEL CLEVIS HORN FAIRING PL4610010 -- 2 sets

MAIN LANDING GEAR COVER -- 1 pair SOCKET HEAD SCREW M4x16mm -- 4 pcs SCREW PWA2.3x8mm -- 16 pcs M8 NYLON INSERT LOCK NUT -- 2 pcs WHEEL 90mm -- 2 pcs COLLAR 4.1mm w/ screw -- 4 sets WHEEL PANTS -- 1 pair ALUMINUM PLATE 1mm -- 1 pair

WHEEL PANT DECORATIVE COVER -- 1 pair PLASTIC WHEEL COLLAR 4.1mm -- 2 pcs

9.FIREWALL 10x131x153mm(Plywood)(F1) -- 1 pc. ENGINE BOX SIDE PLATE 5x99x280mm (F20 & F21A) -- 2 pcs UPPER PLATE 2x120.1x153mm (F21A) -- 1 pc. LOWER PLATE 2x125.2x153mm (F21) -- 1 pc. FUEL TANK HOLDER(Front)(F45) 3x69x143mm -- 1 pc.

FUEL TANK HOLDER (Back) (F47) 3x88x143mm -- 1 pc.

BALSA 10x10x153mm (F21B) -- 1 pc. BALSA 10x10x106mm (F22) -- 2 pcs

BALSA 10x10x87mm (F23) -- 4 pcs

BALSA 8x8x101mm (F22A) -- 2 pcs

BALSA 12x12x99mm (F24) -- 1 pc. BALSA 12x12x99mm (F24A) -- 1 pc.

BALSA 10x10x89mm (F24A) -- 1 pc.
BALSA 10x10x88mm (F46) -- 2 pcs
BALSA 10x10x69mm (F46) -- 2 pcs
10.FUEL TANK 800cc (Gasoline Fuel) -- 1 set
PLYWOOD 10x10x144mm (For Fixing Fuel Tank)(F49) -- 1 pc.
12.HEAVY DUTY SERVO HORN PL4120600 -- 1 set
EXECUTE CORD WAY 5x8255mm w/Fixed (For Budder) - 2 pcs

EYE SCREW M2.5x8x25mm w/Threads (For Rudder) -- 2 pcs COPPER TUBE d2.5xD3.2x8mm (For Rudder) -- 2 pcs

LINKAGE CONNECTOR 2.1mm -- 1 set HEAVY DUTY CLEVIS PL4112200 -- 2 sets

SPONGE 60x70x233mm -- 1 pc.

THROTTLE PUSH WIRE 1.2x460mm -- 1 pc.

PLASTIC TUBE d2xD3x170mm -- 1 pc. PLYWOOD 3x49x94mm (For Throttle Servo)(F30) -- 1 pc. BALSA 8x8x61mm (For Throttle Servo Stand)(F30A) -- 1 pc. PLYWOOD 3x65x206.7mm (For Rudder Servo)(F31) -- 1 pc.

PLYWOOD 6x11x196.2mm (For Rudder Servo Stand)(F32) -- 1 pc. PLYWOOD 6x11x202.7mm (For Rudder Servo Stand)(F33) -- 1 pc.

BALSA 8x8x65mm (For Rudder Servo Stand)(F33)
BALSA 8x8x65mm (For Rudder Servo Stand)(F25) -- 2 pcs
13.SCREW PM3x35mm -- 1 pc.
SCREW PA3x35mm -- 1 pc.
WASHER d3xD7mm -- 2 pcs

WING TUBE Ø32x925mm -- 1 pc. WING FAIRING -- 1 pair 14.SCREW PA3x12mm -- 6 pcs

WASHER d3xD7mm -- 6 pcs SILICON GROMMET (PL1285035) d2.5xD8.5mm -- 6 pcs SPINNER (w/alu.back plate) 102mm -- 1 set

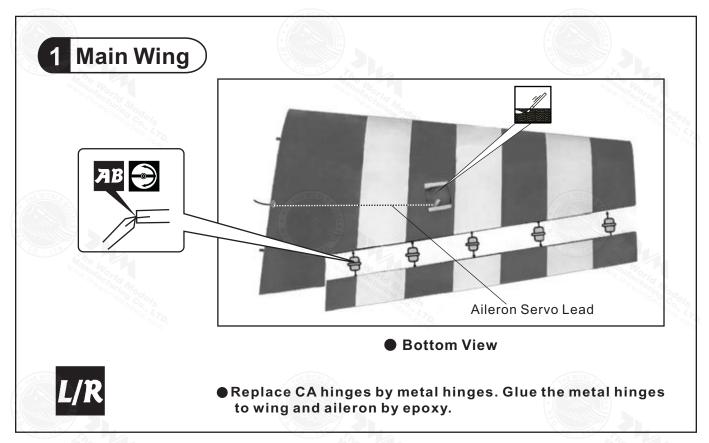
COWLING -- 1 pc. TRANSPARENT 3D TEMPLATE -- 1 pc.

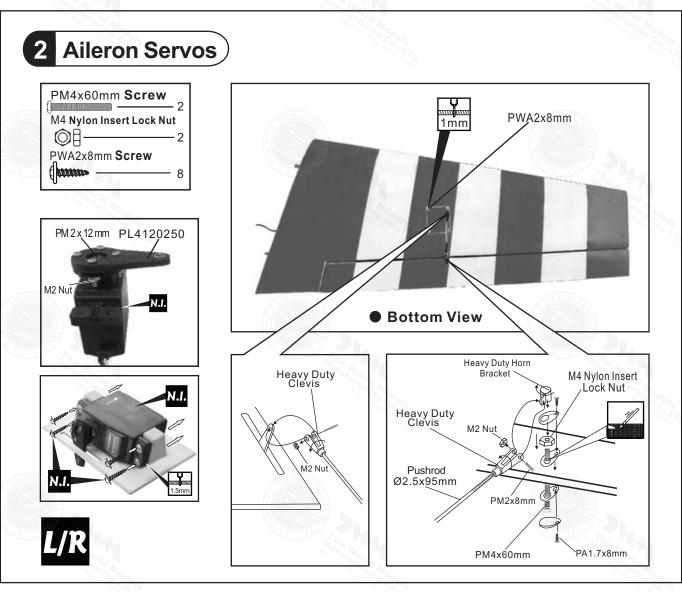
15.PILOT PC101110A -- 1 set SCREW PWA 2.3x8mm -- 8 pcs SCREW PM3x25mm -- 2 pcs WASHER d3xD7mm -- 2 pcs

CANOPY -- 1 pc. SILICON GROMMET (PL1265035) d1.5xD6.5mm -- 8 pcs

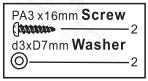
16.DECALS A162DEC -- 1 set 17.COVERING:

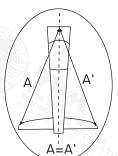
**TOUGHLON STL100 WHITE TOUGHLON STL201 BLACK TOUGHLON STL241 TURQUOISE TOUGHLON STL311 FERRARI RED TOUGHLON STL351 DARK BLUE TOUGHLON STL360 VIOLET** 



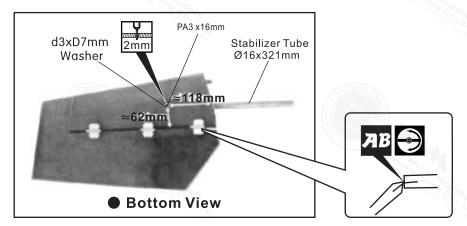


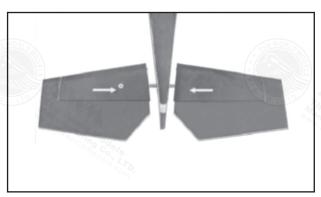
## 3 Stabilizer & Elevator



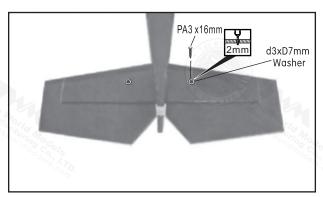


 Replace CA hinges by metal hinges. Glue the metal hinges to stabilizer and elevator by epoxy.





Bottom View

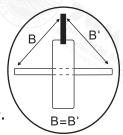


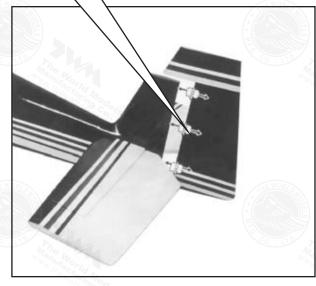
Bottom View



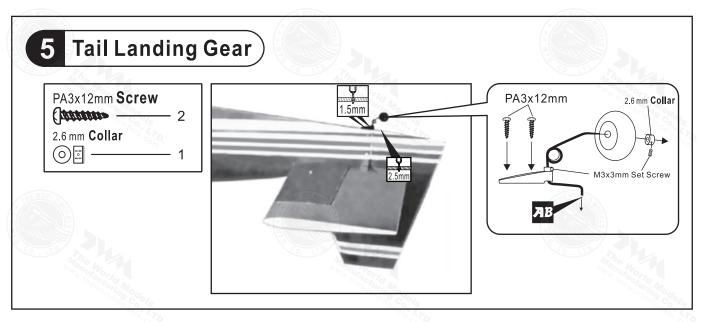


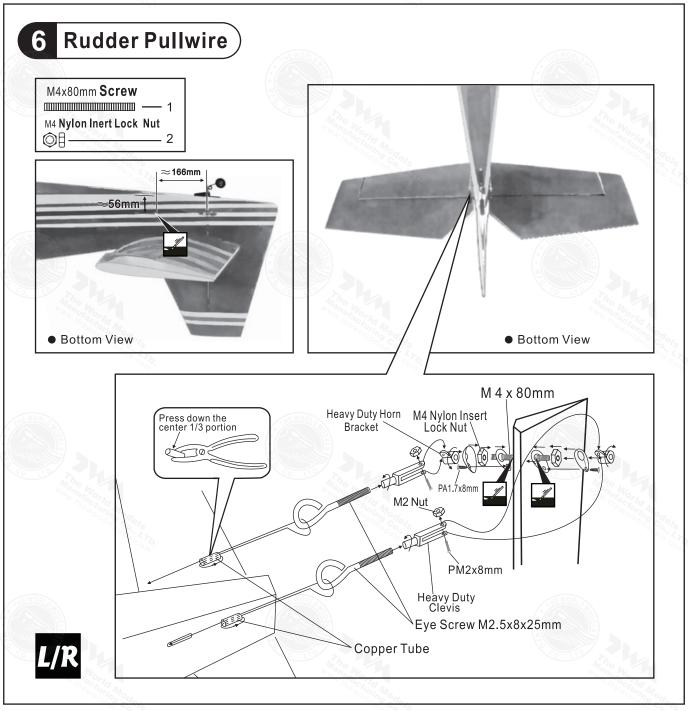
 Replace CA hinges by metal hinges. Glue the metal hinges to vertical and rudder by epoxy.

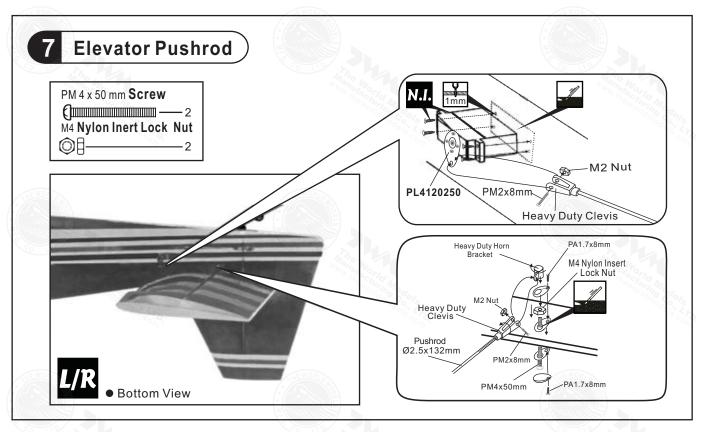


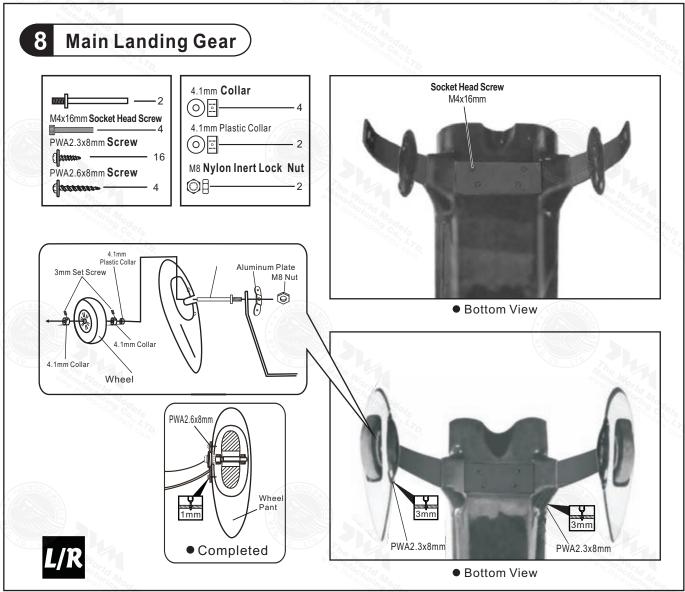


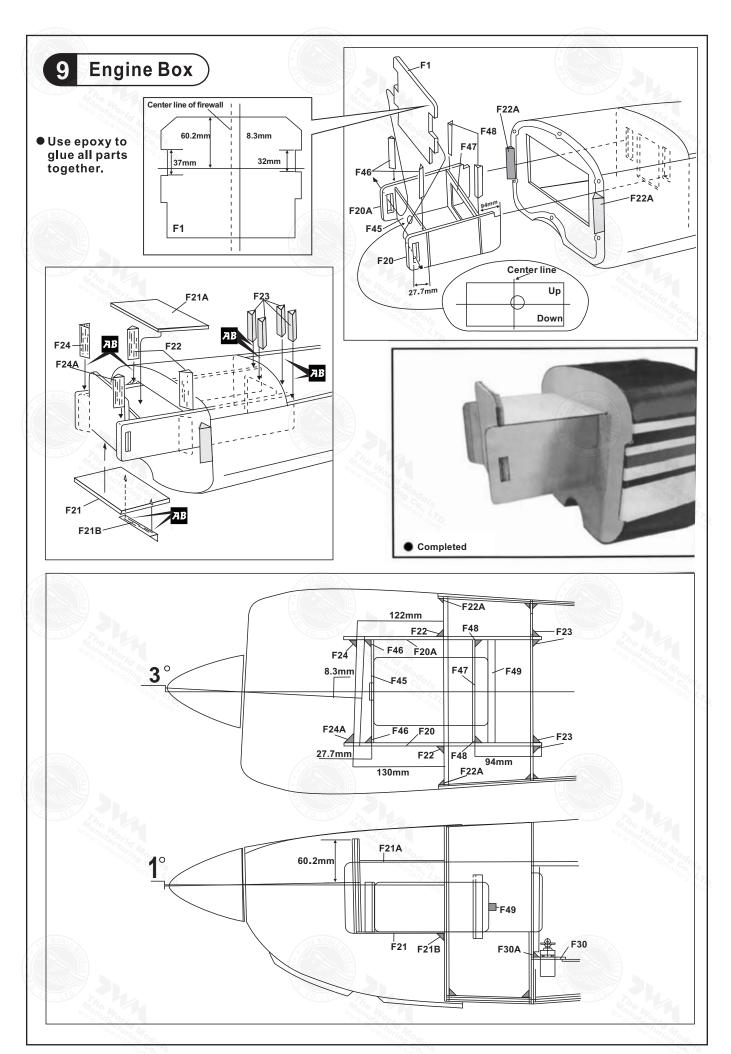


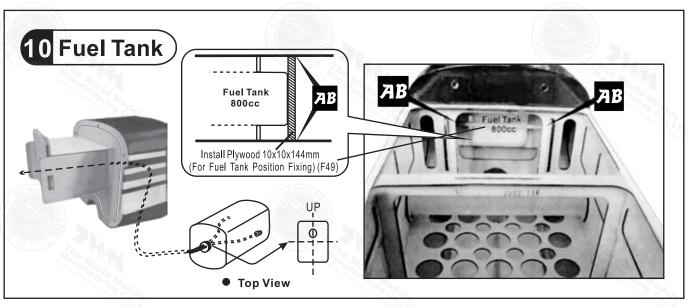


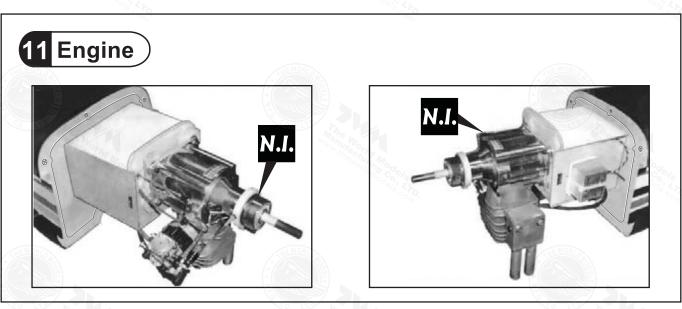


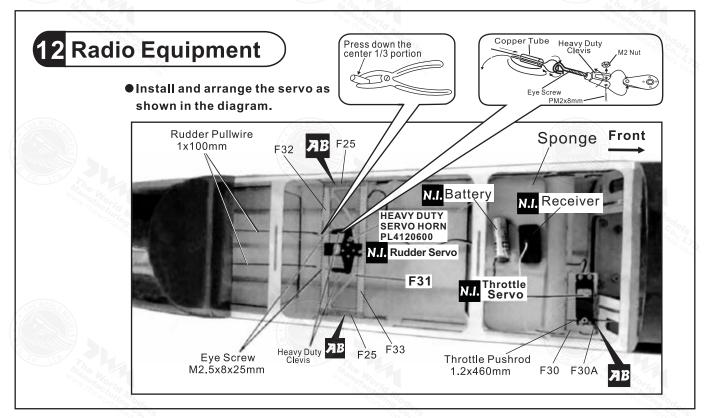




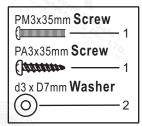




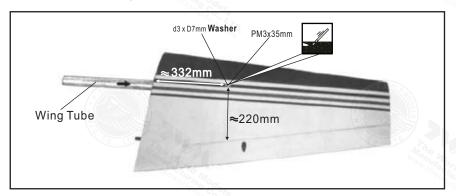




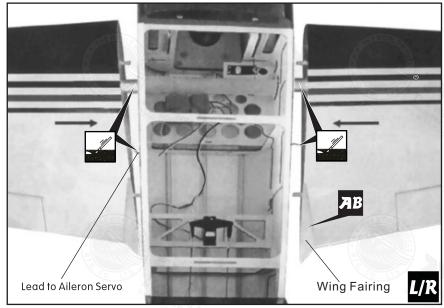
### 13 Main Wing

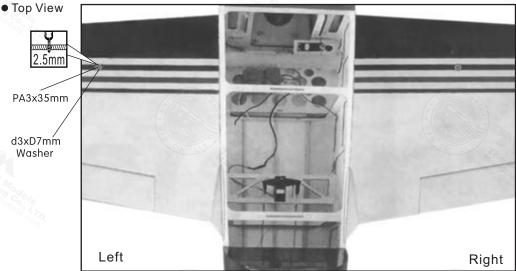


Step 1. Insert the aluminum wing tube with the pre-drilled hole end into the right wing. Align the lines marked at the wing root and wing tube, then apply the PM3x35mm machine screw through the pre-drilled hole on top of the wing. (please confirm the alignment of the hole by putting a 2.5mm diameter rod through the pre-drilled wing hole before applying the screw ) The hole on the wing tube is pre-threaded, do not over tighten the PM3 screw, the set up is for future removal of the wing.



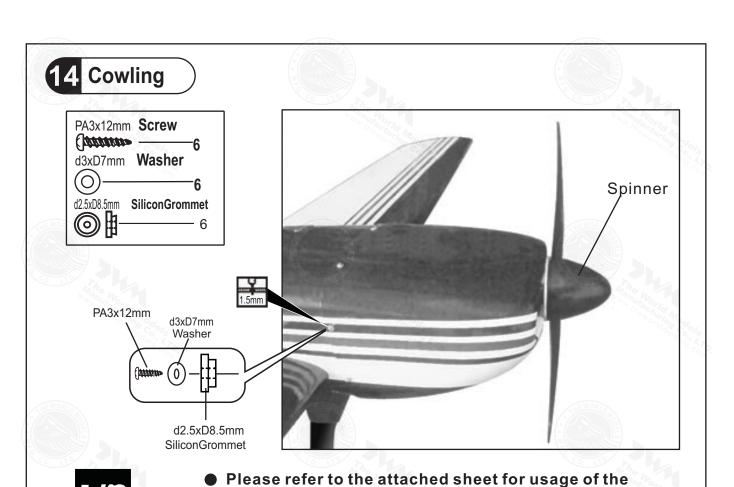
Step 2. Install the right wing to the fuselage by inserting the wing tube (now attached to the right wing) through the fuselage, then install the left wing.





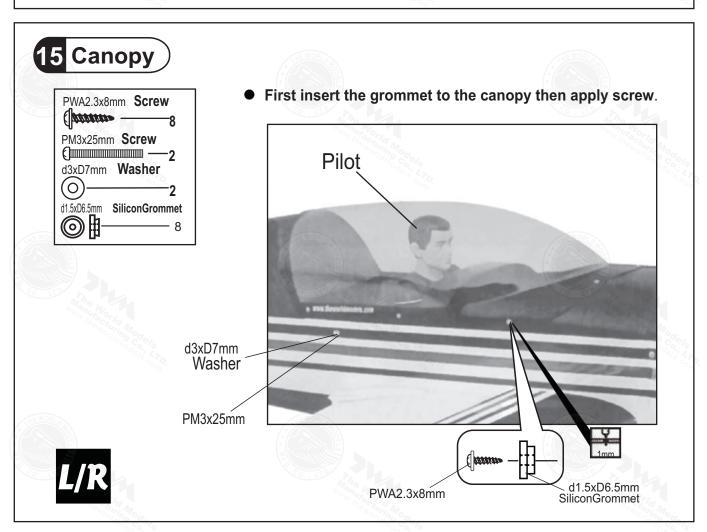
Step 3. Make sure the wings are resting against the fuselage tightly. Locate the pre-drilled 2.5mm hole at top of left wing, and drill along with 2.5mm drill bit until it passes through the wing tube. Apply the PA3x35mm self-tapping screw.

Note: It is recommended that the wing tube stays with the left wing. Removal of the wings could be achieved by removing the right wing machine screw, the right wing then the left wing with wing tube. If removal of wing tube from left wing is also required, it is recommended that instead of applying self-tapping screw in step 3, you pretap with M3 thread cutter and apply M3 machine screw.



transparent 3D template.

First insert the grommet to the cowling then apply screw.

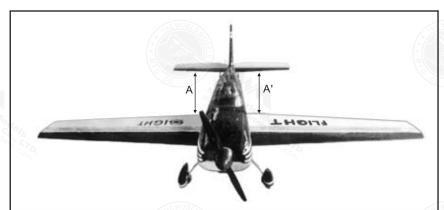


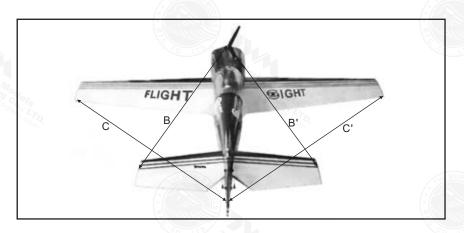
## 16 Wing Setting

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

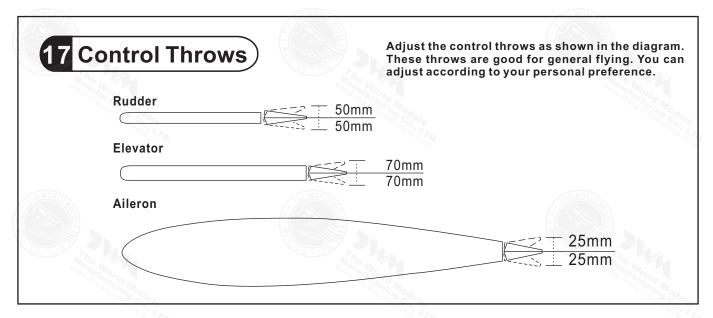


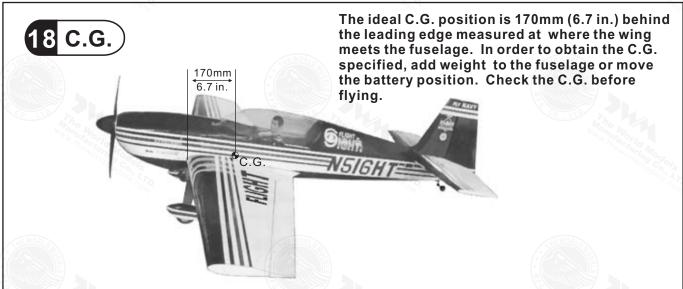






A=A' B=B' C=C'





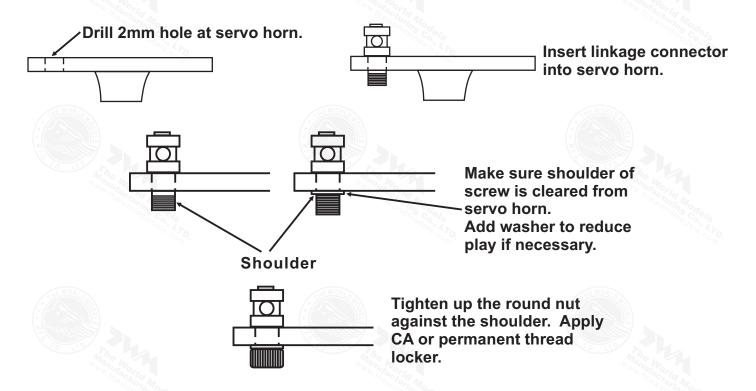
# Warning!

#### **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.
- # 29%EXTRA 880 L is specially designed to be powered by 60cc gasoline 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.

# 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.

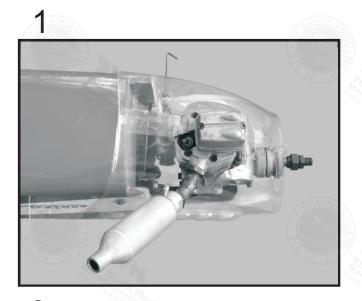
1. Name:	
2. Address:	THE WORLD
3. Phone #:	E-mail:
4. Model:	
	Fuselage QC#ed on wing and fuselage)
5. Date of Purchase:	
6. Store Name:	

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

## Usage of the transparent 3D template

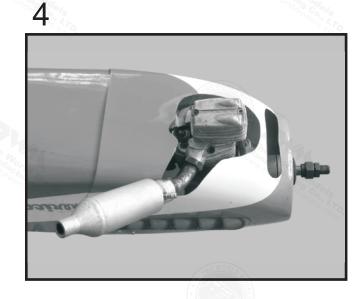


This transparent 3D template is used for position guidance of the actual cutting of the pre-painted cowling.

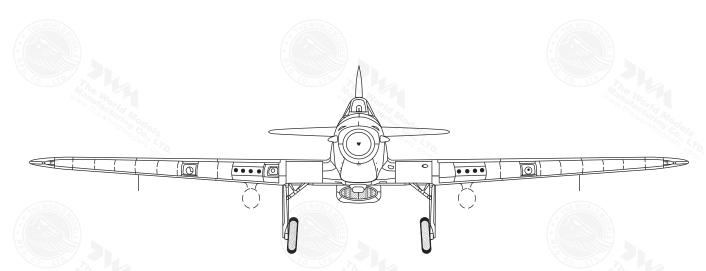








Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.



Ducted Fan

Pattern

Warbirds

Funfly

Scale

Electric

Sports

Glider

Trainer Boat

Accessories

Covering

(Lightex /oughlon)

