

## 1/3 SUPER CUB



## Requires: 80 c.c. gasoline engine, 5-channel radio w/ 8 high torque servos.

#### Specifications

Wing Span Wing Area Flying Weight Fuselage Length

141 in / 3580 mm 2821 sq in / 182 sq dm 28.5 lbs / 13000 g 91 in / 2310 mm

#### 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.



<sup>\*</sup> Specifications are subject to change without notice.\*

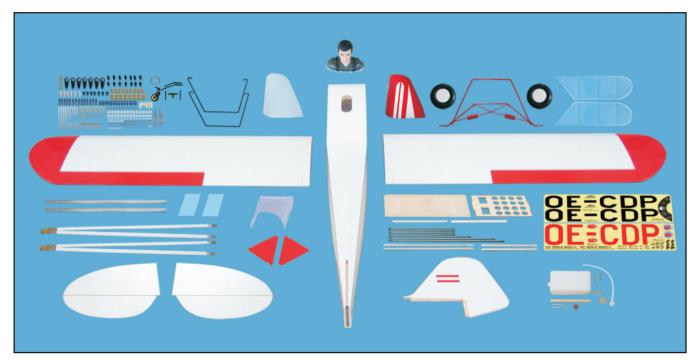
# 1/3 SUPER CUB —INDEX——

BEFORE YOU BEGIN	P.	1		
PARTS LIST	P.	2		
ASSEMBLY	P.	3 -	-1	2
SAFETY PRECAUTIONS	P.	12	2	

## **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!
- 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!



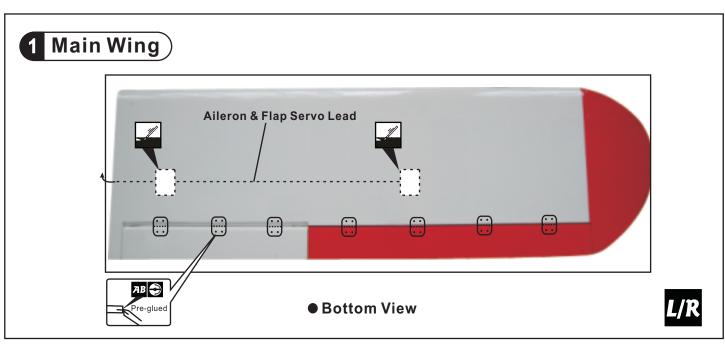
#### Parts List

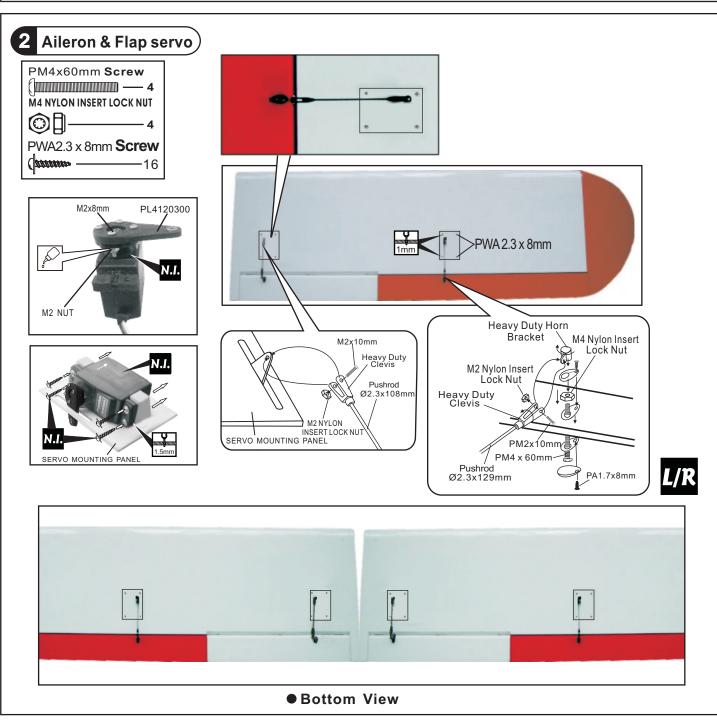
- 1. MAIN WING -- 1 pair
- 2. SERVO MOUNTING PANEL (For Aileron) 2 pairs HEAVY DUTY CLEVIS PL4112200 8 sets SCREW PM4x60mm 4 pcs SCREW PWA2.3x8mm 16 pcs M4 NYLON INSERT LOCK NUT 4 pcs HEAVY DUTY HORN BRACKET PL4112400 4 sets HEAVY DUTY SERVO HORN PL4120300 4 sets PUSHROD Ø2.3x129mm w/ Threads (For Aileron) 2 pcs PUSHROD Ø2.3x108mm w/ Threads (For Flap Servo) 2 pcs SWIVEL CLEVIS HORN FAIRING PL4610010 4 sets
- 3. SCREW HM4x20mm 12 pcs COPPER CLIPPER 0.5mm - 8 pcs MAIN WING STRUTS -- 1 pair WING STRUT WIRE D4mm -- 2 pcs M4 NYLON INSERT LOCK NUT -- 4 pcs WASHER d4xD9mm -- 4 pcs WASHER d4xD12mm -- 4 pcs
- 4. FUSELAGE -- 1 pc. STABILIZER & ELEVATOR -- 1 set SCREW PWM2.5x12mm -- 2 pcs STABILIZER WIRE Ø4x200mm -- 2 pcs
- 5. VERTICAL FIN & RUDDER -- 1 set
- TAIL GEAR ASSEMBLY (PL3410022) --1 set COPPER PLATE (For Stays on Tail Fueslage Bottom) 1x12x60mm -- 1 pc. SCREW PA3x18mm -- 3 pcs SCREW PWA2.5x12mm -- 2 pcs
- 7. MAIN LANDING GEAR 1 set SCREW HM4x18mm – 2 pcs SCREW PA3x14mm – 12 pcs SCREW PA4x20mm – 2 pcs WASHER d4xD12mm – 2 pcs WASHER d4xD9mm – 2 pcs MOUNTING PLATE 12x20mm – 6 pcs ALUMINUM PLATE 3x15x77mm – 2 pcs
- 8. SCREW PA1.7x8mm 6 pcs SCREW PM3x10mm - 8 pcs WASHER d3xD7mm - 16 pcs M3 NUT - 8 pcs COLLAR Ø6.1mm w/ set screw - 4 sets LARGE SCALE CAPTIVE AIR WHEELS Ø140mm (PL3115140) - 2 sets PLYWOOD 2x211.5x193.5mm (Main Langing Gear Cover) - 1 pair COPPER CLIPPER 0.5x12x20mm - 8 pcs
- 9. BLIND NUT M6 4 pcs WASHER d6xD15mm – 4 pcs SOCKET HEAD SCREW M6x30mm – 4 pcs
- 10. COWLING -- 1 pc. TRANSPARENT 3D TEMPLATE -- 1 pc. SCREW PA3x12mm -- 4 pcs WASHER d3xD7mm -- 4 pcs SILICON GROMMET d2.5xD8.5mm -- 4 pcs
- 11. FUEL TANK 1500cc (PL1121500G-gasoline) 1 set CABLE TIE (For Fuel Tank) 1.5x8x500mm 1 pc. DOUBLE-SIDED TAPE 40x160mm 1 pc.

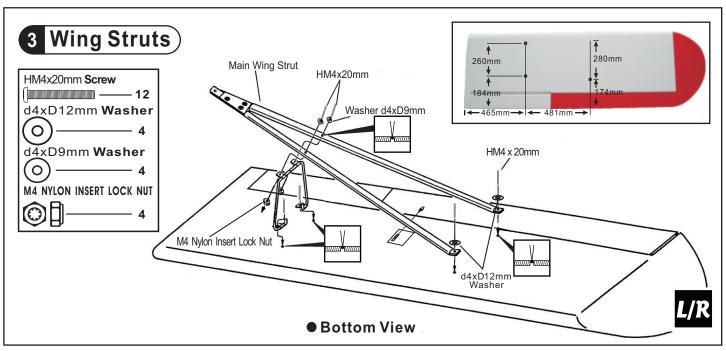
- 12. PUSHROD Ø2.3x215mm w/ Threads (For Elevator) 2 pcs SCREW PM4x50mm – 2 pcs M4 NYLON INSERT LOCK NUT – 2 pcs SWIVEL CLEVIS HORN FAIRING PL4610010 – 2 sets HEAVY DUTY HORN BRACKET PL4112400 – 2 sets HEAVY DUTY SERVO HORN PL4120250 – 2 sets HEAVY DUTY CLEVIS PL4112200 – 4 sets
- 13. PUSHROD Ø2.3x170mm w/ Threads (For Rudder) -- 1 pc. SCREW PM4x50mm -- 1 pc. M4 NYLON INSERT LOCK NUT -- 1 pc. SWIVEL CLEVIS HORN FAIRING PL4610010 -- 1 set HEAVY DUTY HORN BRACKET PL4112400 -- 1 set HEAVY DUTY SERVO HORN PL4120250 -- 1 set HEAVY DUTY CLEVIS PL4112200 -- 2 sets
- 14. SCREW PM2x18mm -- 12 pcs
  WASHER d2xD5mm -- 24 pcs
  M2 NUT -- 12 pcs
  CLEVIS -- 12 pcs
  WIRE Ø1x4200mm -- 1 pc.
  FLYING WIRE BRACKET -- 12 pcs
  CLIP PIN -- 12 pcs
  EYE SCREW -- 6 pcs
  COPPER TUBE d2.5xD3.2x8mm (For Rudder) -- 16 pcs
- 15. SIDE WINDOWS -- 1 pair
- 16. LINKAGE CONNECTOR Ø2.1mm w/ set screw -- 1 set
- 17. PLYWOOD 3x196x304mm (For Fuselage Servos) 1 pc. PLYWOOD 3x10x160mm (For Fuselage Servo Stand) 2 pcs BALSA 10x10x288mm (For Fuselage Servo Stand) 2 pcs SPONGE 10x80x200mm 2 pcs THROTTLE PUSHWIRE Ø1.2x480mm 1 pc. PLASTIC TUBE d2xD3xd300mm 1 pc.
- 18. PILOT PC101110A -- 1 set SCREW PWA2x12mm -- 4 pcs COCKPIT BASE PANEL 3x196x444mm -- 1 pc. WOOD 10x10x443mm (For Cockpit Base Panel) -- 2 pcs
- 19. WIND SHIELD 1 pc.
  M2 NYLON INSERT LOCK NUT 2 pcs
  SCREW PM2x14mm 2 pcs
  WASHER d2xD5mm 4 pcs
  MOUNTING PLATE 5x15mm 2 pcs
  BALSA ROD Ø8x220 2 pcs
- 20. WING TUBE Ø22x931mm 2 pcs SCREW HM3x30mm – 2 pcs SCREW PA3x30mm – 2 pcs WASHER d3xD7mm – 4 pcs
- 21. SCREW HM4x15mm 2 pcs WASHER d4xD12mm - 2 pcs M4 NYLON INSERT LOCK NUT - 2 pcs
- 22. DECALS: A186SRDEC -- 1 set

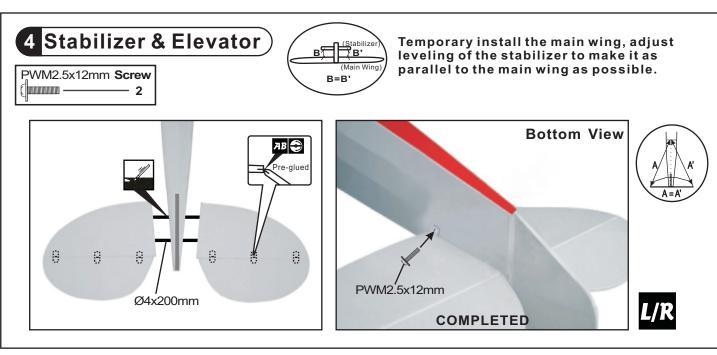
#### **COVERING:**

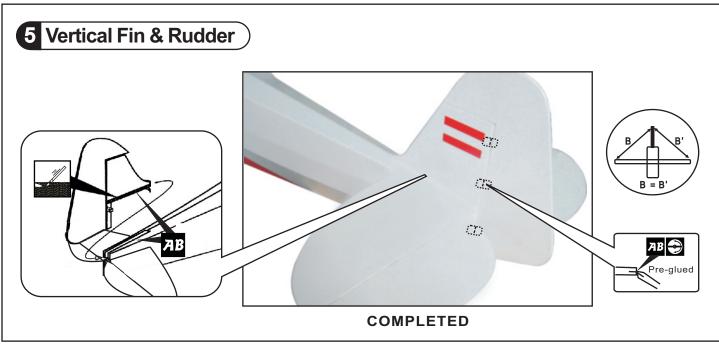
TOUGHLON STL 100 WHITE TOUGHLON STL 312 BRIGHT RED



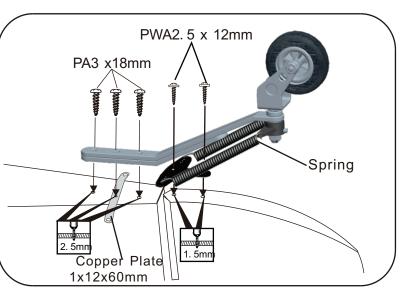




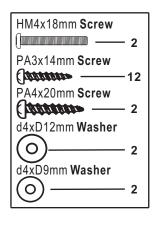


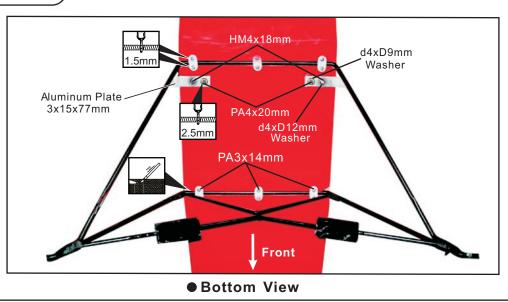




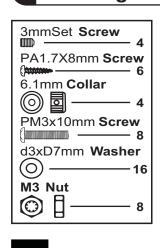


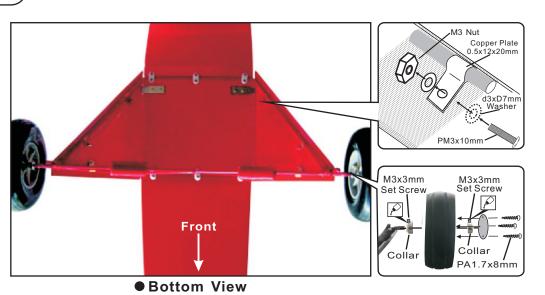
## 7 Main Landing Gear

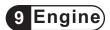


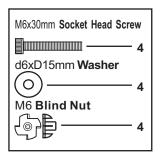


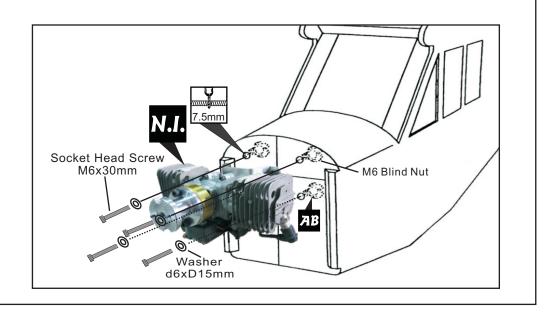
### 8 Landing Gear



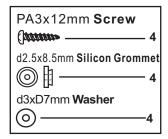




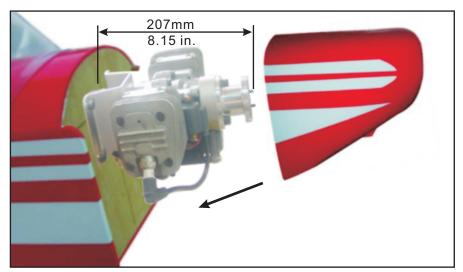


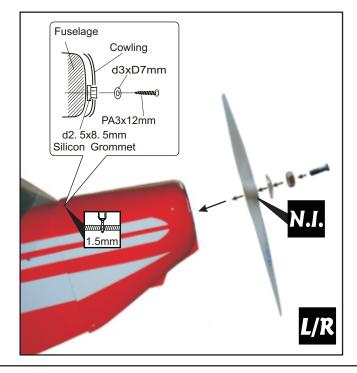


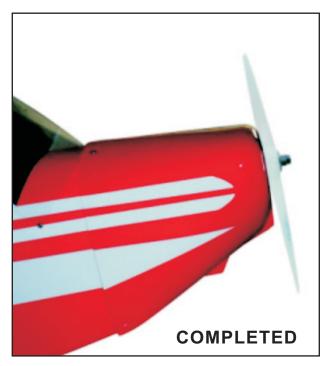
### 10 Cowling

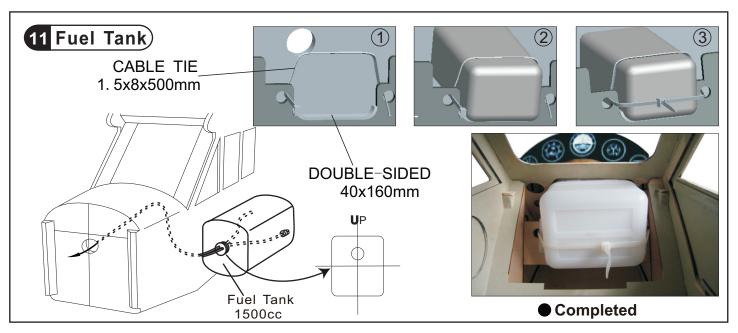


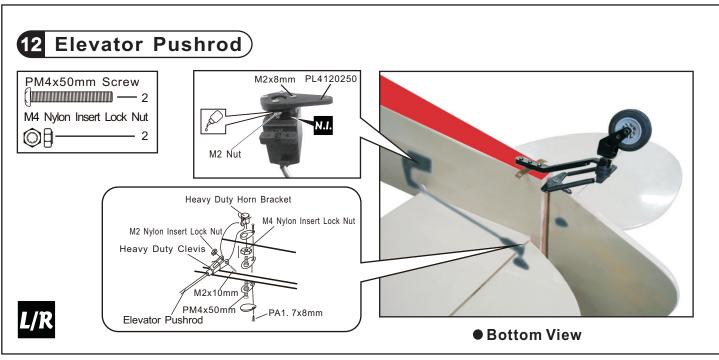
Please refer to the attached sheet for usage of the transparent 3D template. • First insert the grommet to the cowling then apply screw.

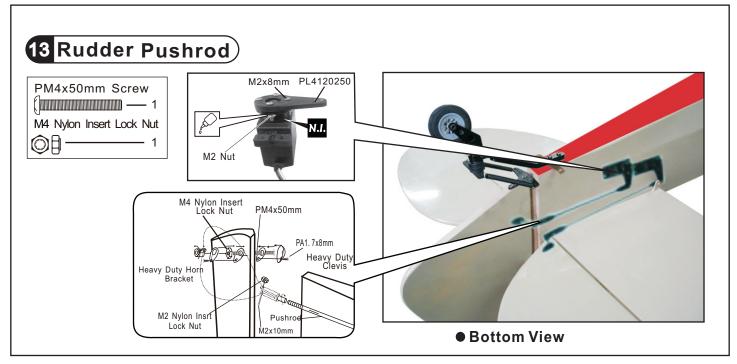


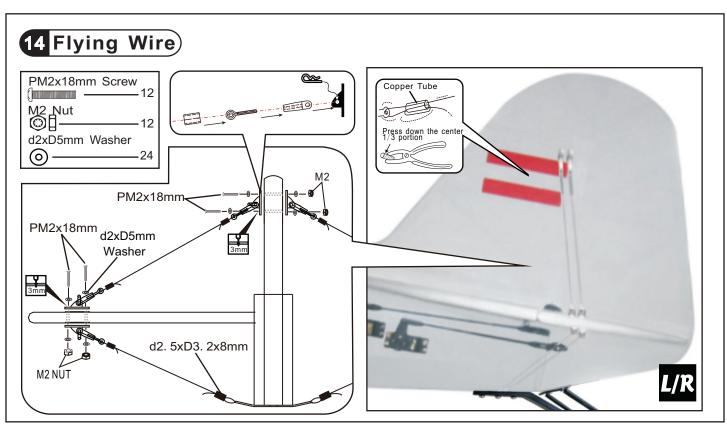


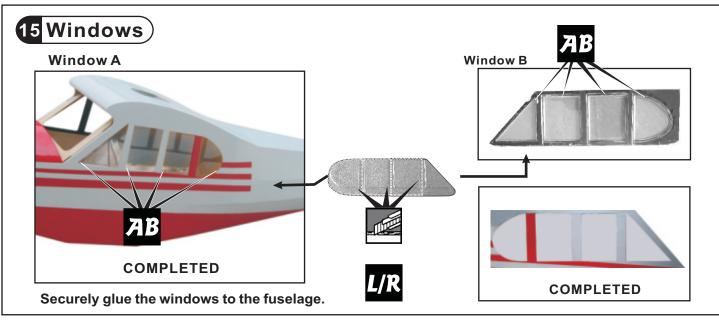


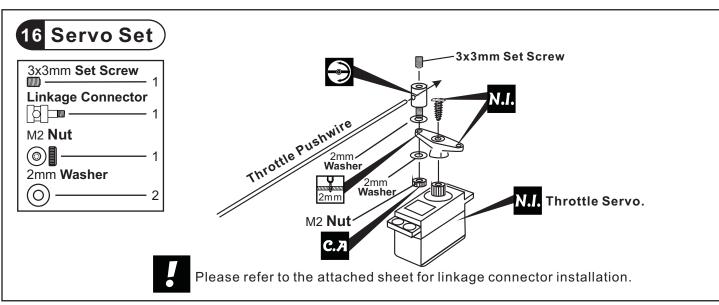


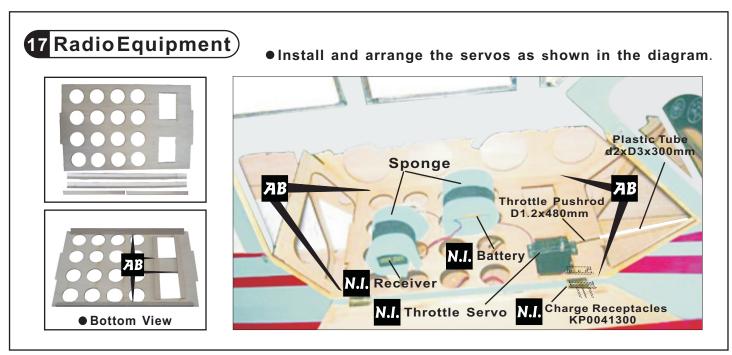


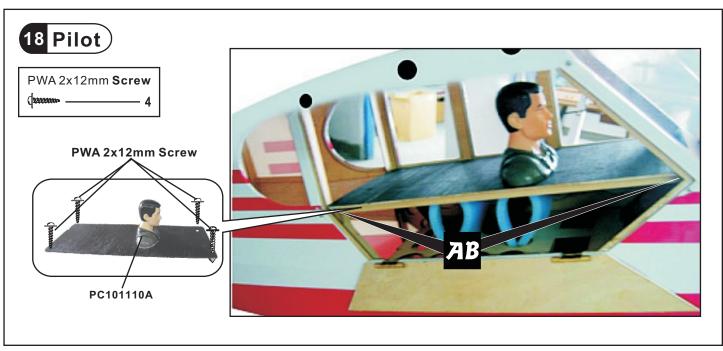


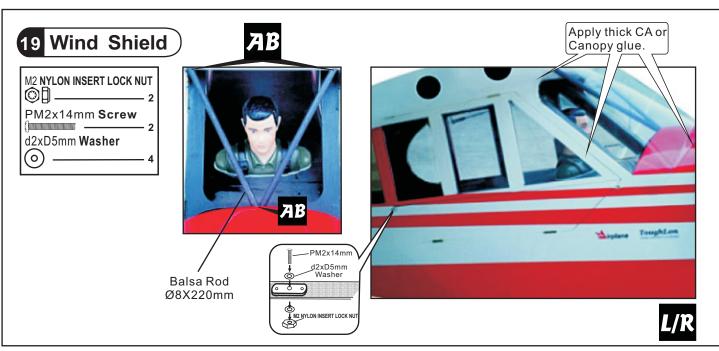




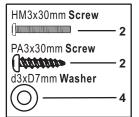




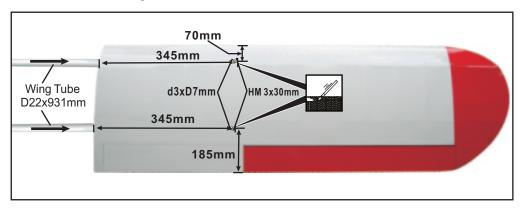




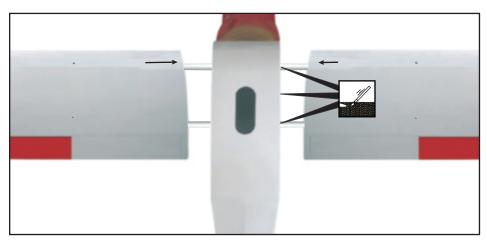
## 20 Main Wing



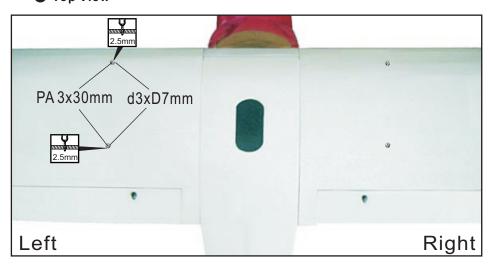
Step 1. Insert the aluminum wing tube with the pre-drilled hole end into the right wing. Align the lines marked at the wing root and wing tube and apply the PM3 x 30mm machine screw through the pre-drilled hole on top of the wing. ( please confirm the alignment of the hole by putting a 2.5mm diameter 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 PM3mm 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.

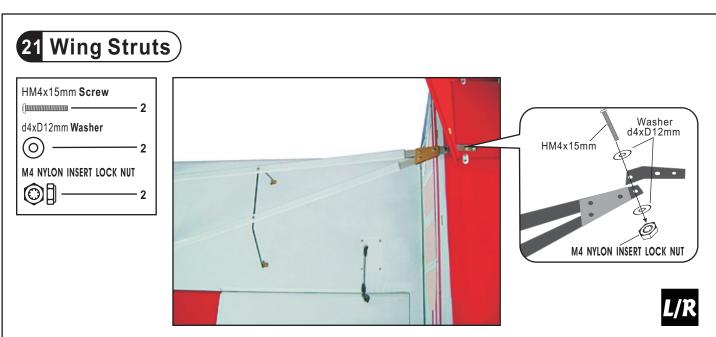


Top View



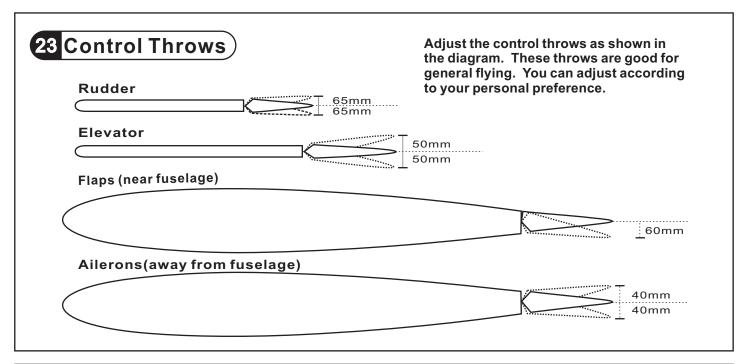
Step 3. Make sure the wings are resting against the fuselage tightly. Locate the pre-drilled 2.5mm hole at top of left wing, and drill along with 2.5mm drill bit until it passes through the wing tube. Apply the PA3 X30mm self-tapping screw.

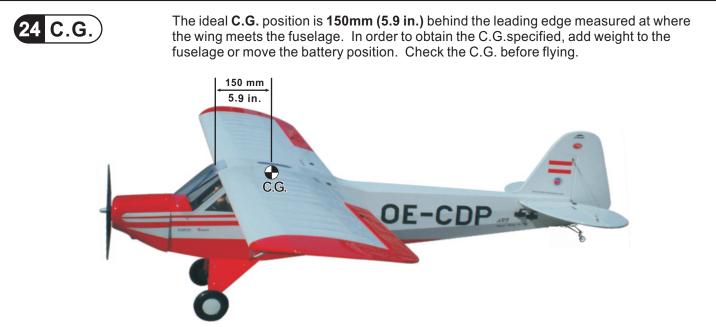
Note: It is recommended that the wing tube stays with the left wing. Removal of the wings could be acheived by removing the right wing machine screw, the right wing then the left wing with wing tube. If removal of wing tube from left wing is also required, it is recommended that instead of applying self-tapping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





C = C'



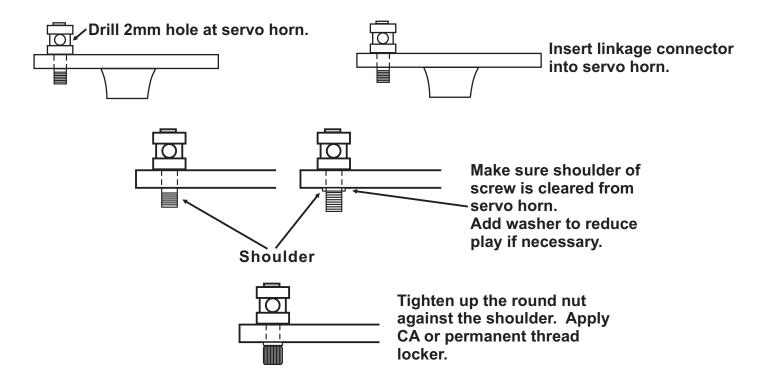




#### **Important Safety Precautions**

- # 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.
- # 1/3 SUPER CUB is specially designed to be powered by 80C.C. 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.

## 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#Fus (QC numbers are stamped	elage QC#on wing and fuselage)
5. Date of Purchase:	
6 Store Name:	

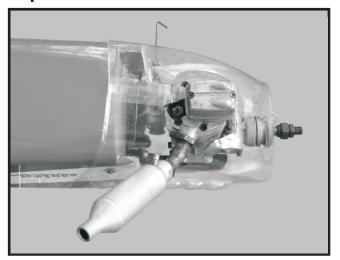
Please call AirBorne Models at 925 371 0922 for any assistance in filling this form. Thank you very much for purchasing our product.

## Usage of the transparent 3D template



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

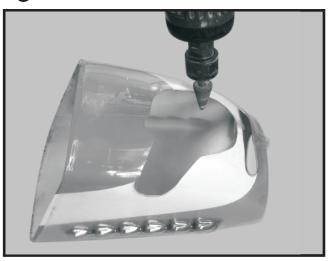
1



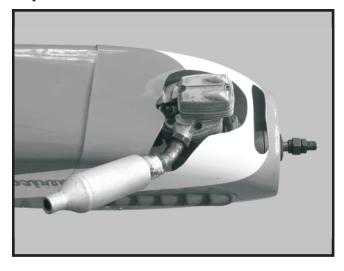
2



3



4

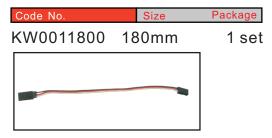


Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.

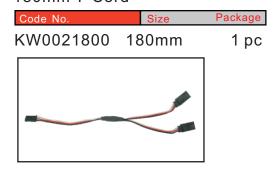
## **Optional Parts**

## ( ACCESSORIES)

#### 180mm Extension



#### 180mm Y-Cord

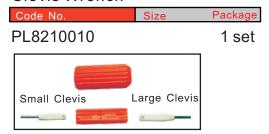


#### Charge Receptacles





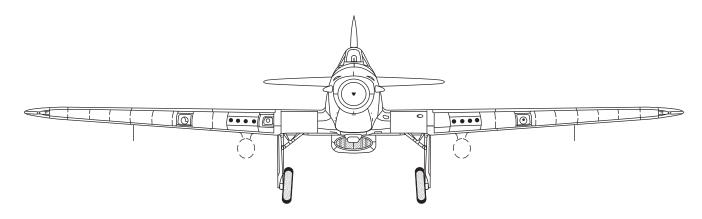
#### Clevis Wrench



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

#### Field Stand





Ducted Fan

Pattern

Warbirds

Funfly

Scale

Electric

Sports

Glider

Trainer Boat

Accessories

Covering

(Lightex /oughlon)

