

50CC PIPER CUB (A037)



Requires: 50cc gasoline engine, 4-channel radio w/ 6 high torque servos.

Specifications

Wing Span 118 in / 3000 mm

Wing Area 1990 sq in / 128 sq dm

Flying Weight 18.5 lbs / 8450 g Fuselage Length 75 in / 1900 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.



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

^{*} Specifications are subject to change without notice. *

50CC PIPER CUB

INDEX BEFORE YOU BEGIN P.1 PARTS LIST P.2 ASSEMBLY P.3-P.13 SAFETY PRECAUTIONS P.13

BEFORE YOU BEGIN

- 1 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:-



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!



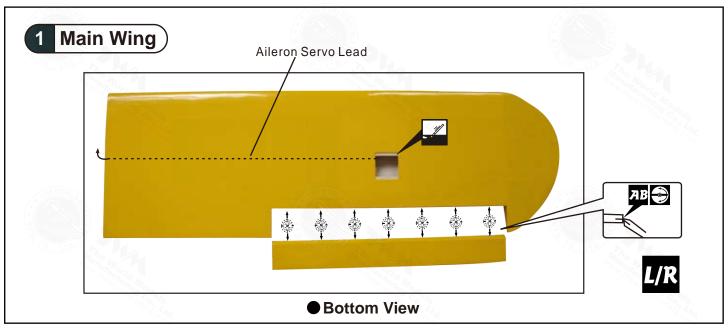
Do not overlook this symbol!

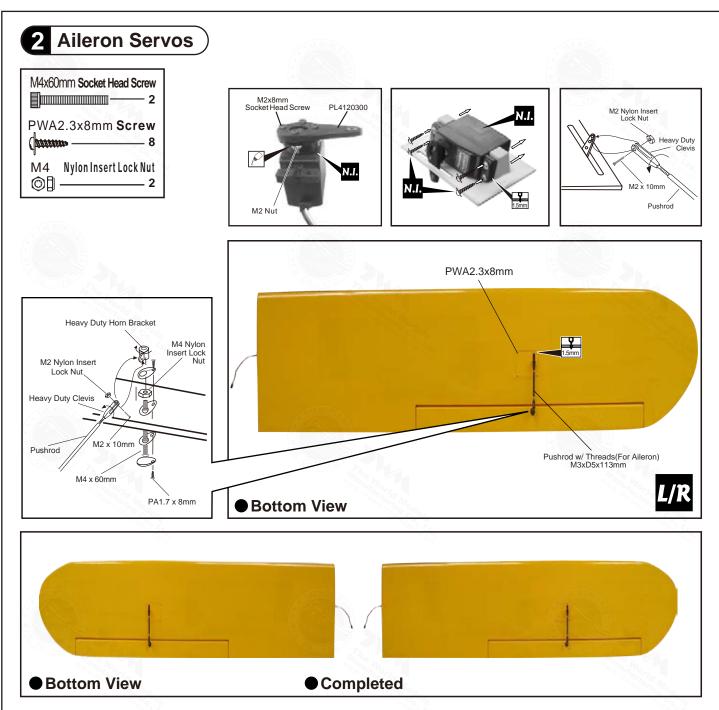


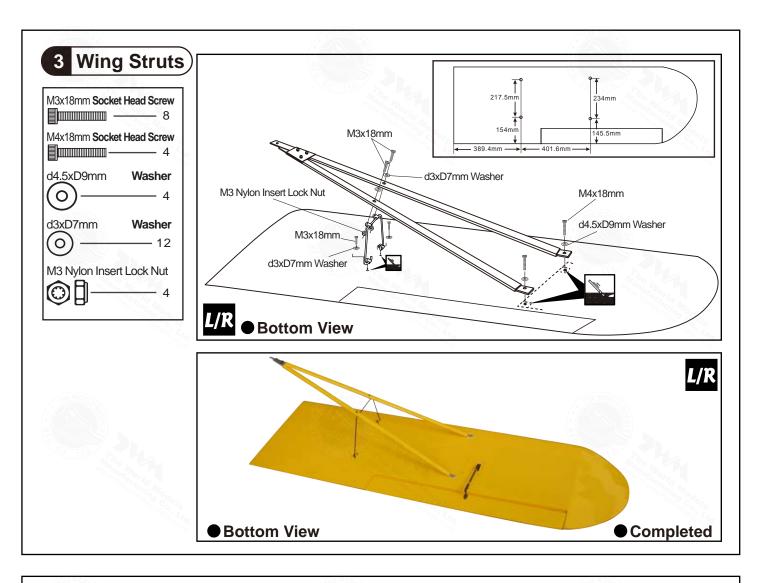
Parts List

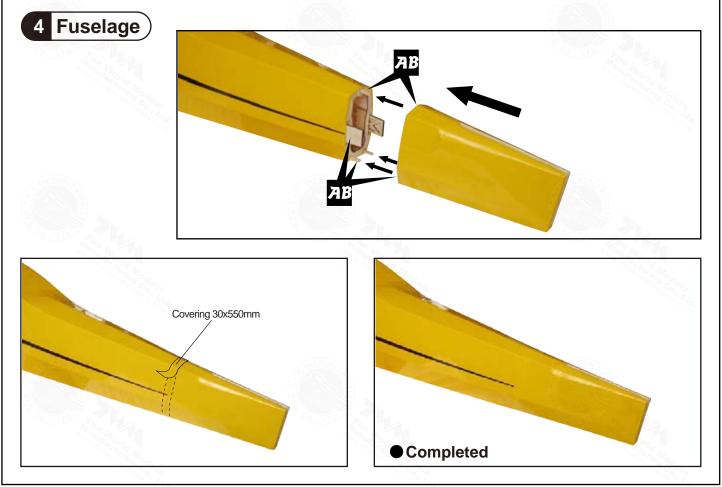
- 1. MAIN WING -- 1 pair
- 2. SERVO MOUNTING PANEL (For Aileron) PL5310010 -- 1 pair HEAVY DUTY CLEVIS PL4112200 -- 4 sets SOCKET HEAD SCREW M4x60mm -- 2 pcs SCREW PWA2.3x8mm -- 8 pcs M4 NYLON INSERT LOCK NUT -- 2 pcs HEAVY DUTY HORN BRACKET PL4112400 -- 2 sets HEAVY DUTY SERVO HORN PL4120250 -- 2 sets PUSHROD M3xD5x113mm w/ Threads (For Aileron) -- 2 pcs SWIVEL CLEVIS HORN FAIRING PL4610010 -- 2 sets
- 3. SOCKET HEAD SCREW M3x18mm -- 8 pcs SOCKET HEAD SCREW M4x18mm -- 4 pcs WIRE BRACKET PL5330030Y -- 8 pcs MAIN WING STRUTS -- 1 pair WING STRUT WIRE D3mm -- 2 pcs M3 NYLON INSERT LOCK NUT -- 4 pcs WASHER d3xD7mm -- 12 pcs WASHER d4.5xD9mm -- 4 pcs
- 4. FUSELAGE -- 1 pc. COVERING 30x550mm -- 1 pc.
- 5. STABILIZER & ELEVATOR -- 1 set SCREW PWM2.5x12mm -- 2 pcs STABILIZER WIRE Ø4x170mm -- 2 pcs
- 6. VERTICAL FIN & RUDDER -- 1 set
- 7. TAIL GEAR ASSEMELY (PL3410033) --1 set COPPER PLATE (For Stays on Tail Fueslage Bottom) 1.5x12x60mm -- 1 pc. SCREW PA3x18mm -- 3 pcs SCREW PWA2.5x12mm -- 2 pcs SPRING Ø5x50mm -- 2 pcs
- 8. MAIN LANDING GEAR -- 1 set SCREW HM4x20mm -- 2 pcs SCREW PA3x18mm -- 12 pcs SCREW PA4x20mm -- 2 pcs WASHER d4xD9mm -- 4 pcs MOUNTING PLATE 12x20mm PL4114020 -- 6 pcs ALUMINUM PLATE 3mm -- 2 pcs
- 9. LARGE SCALE TREADED INFLATABLE WHEELS Ø118mm -- 2 sets SCREW PA1.7x8mm -- 6 pcs SCREW PM3x12mm -- 8 pcs WASHER d3xD7mm -- 16 pcs M3 NUT -- 8 pcs COLLAR Ø5.1mm w/ set screw -- 4 sets WIRE BRACKET PL5330050Y -- 8 pcs PLYWOOD 2x178x186.4mm (Main Langing Gear Cover) --1 pair
- 10. BLIND NUT M5 -- 4 pcs WASHER d5xD12mm -- 4 pcs SOCKET HEAD SCREW M5x50mm -- 4 pcs THROTTLE PUSHROD Ø1.8x430mm -- 1 pc. PLASTIC TUBE d2.5xD4x300mm -- 1 pc.
- 11. COWLING -- 1 pc.
 TRANSPARENT 3D TEMPLATE -- 1 pc.
 SCREW PA3x12mm -- 4 pcs
 WASHER d3xD7mm -- 4 pcs
 SILICON GROMMET d2.5xD8.5mm -- 4 pcs
 DUMMY ENGINE COVER -- 1 pair
- 12. FUEL TANK 800cc PL1111810G -- 1 set CABLE TIE 1.5x8x500mm -- 1 pc. DOUBLE-SIDED TAPE 40x160mm -- 1 pc.

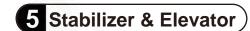
- 13. PUSHROD M3xD5x170mm w/ Threads (For Elevator) -- 2 pcs SOCKET HEAD SCREW M4x50mm -- 2 pcs M4 NYLON INSERT LOCK NUT -- 2 pcs SWIVEL CLEVIS HORN FAIRING PL4610010 -- 2 sets HEAVY DUTY HORN BRACKET PL4112400 -- 2 sets HEAVY DUTY SERVO HORN PL4120250 -- 2 sets HEAVY DUTY CLEVIS PL4112200 -- 4 sets
- 14. PUSHROD M3xD5x126mm w/ Threads (For Rudder) -- 1 pc. SOCKET HEAD SCREW M4x50mm -- 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 set
- 15. SCREW PM2x16mm -- 6 pcs WASHER d2xD5mm -- 12 pcs M2 NUT -- 6 pcs FLYING WIRE CLEVIS -- 6 pcs SCREW PM2x8mm -- 6 pcs WIRE Ø1x1700mm -- 1 pc. FLYING WIRE BRACKET -- 6 pcs EYE SCREW -- 6 pcs COPPER TUBE d2.5xD3.2x8mm (For Rudder) -- 8 pcs
- 16. WIND SHIELD & SIDE WINDOWS -- 1 set BALSA ROD Ø6x190mm -- 2 pcs
- 17. LINKAGE CONNECTOR Ø2.1mm w/ set screw -- 1 set
- 18. PLYWOOD 3x161.5x252mm (For Fuselage Servos) -- 1 set BALSA 10x10x240.5mm (For Fuselage Servo Stand) -- 2 pcs SPONGE 10x80x200mm -- 2 pcs
- 19. PILOT PC101110A -- 1 set SCREW PWA2x12mm -- 4 pcs COCKPIT BASE PANEL 3x161x373mm -- 1 set
- 20. M2 NYLON INSERT LOCK NUT -- 2 pcs SCREW PM2x14mm -- 2 pcs WASHER d2xD5mm -- 4 pcs MOUNTING PLATE 5x15mm PL4114015 -- 2 pcs
- 21. WING TUBE Ø22x825mm -- 2 pcs SELF-TIGHTENING LATCHING PIN PL9120010 -- 4 pcs WIRE Ø0.8mm -- 2 pair M3x8mm SET SCREW -- 4 pcs
- 22. SCREW HM4x12mm -- 2 pcs WASHER d4xD12mm -- 2 pcs M4 NYLON INSERT LOCK NUT -- 2 pcs
- 23. DECALS: A037DEC -- 1 set
- COVERING: TOUGHLON STL 331 CUB YELLOW LIGHTEX SGX 201 BLACK



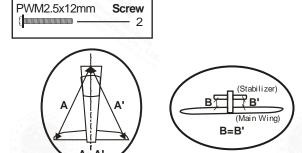




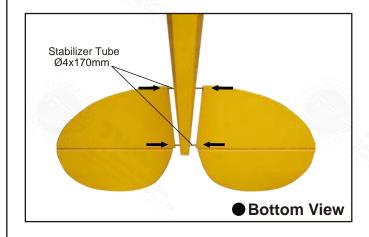


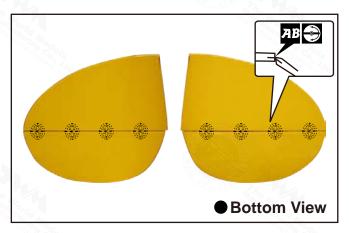


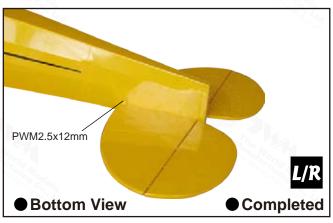
Screw



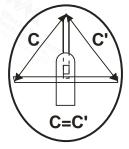
Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible



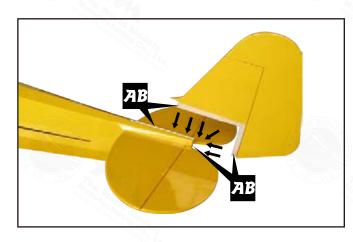


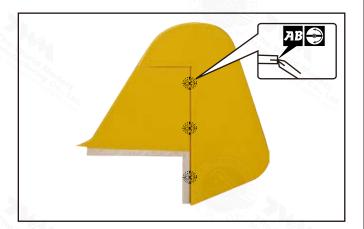


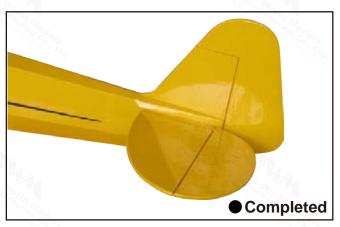
6 Vertical Fin & Rudder

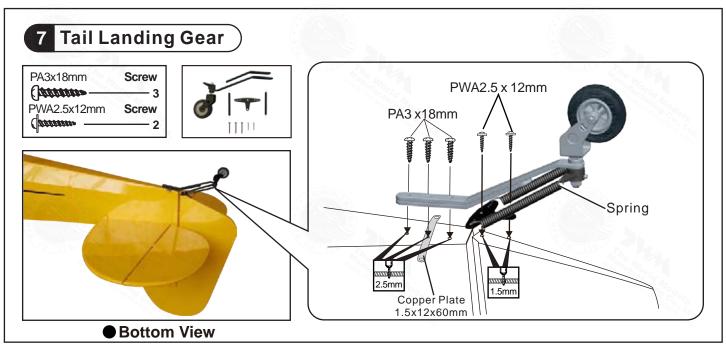


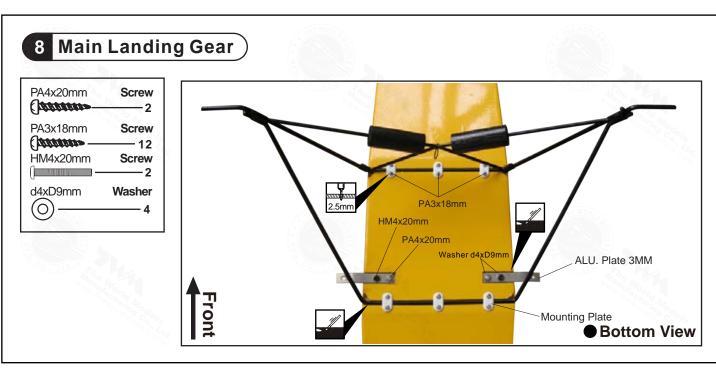
 Remove coverings for all surfaces in contact before applying A/B epoxy glue.

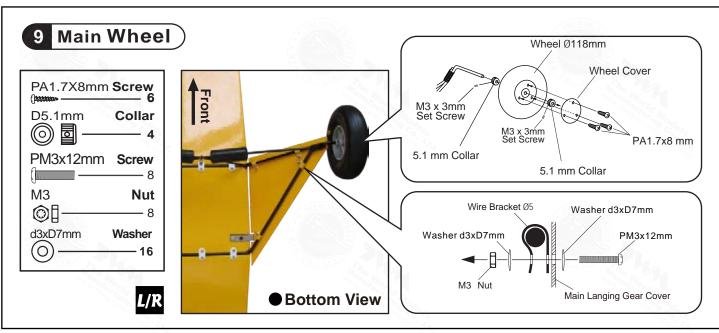


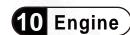


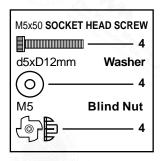


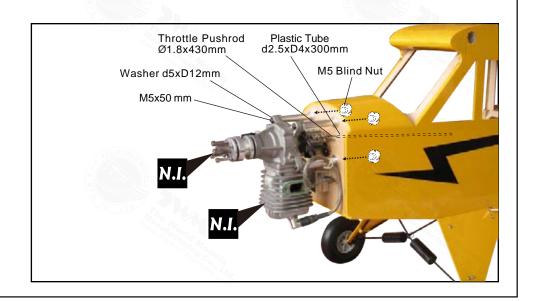




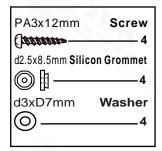




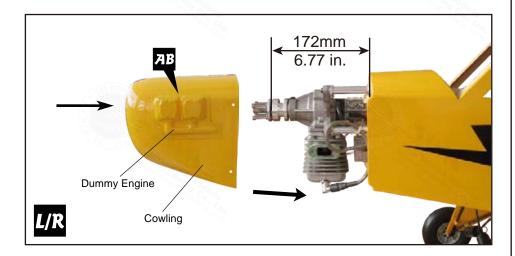


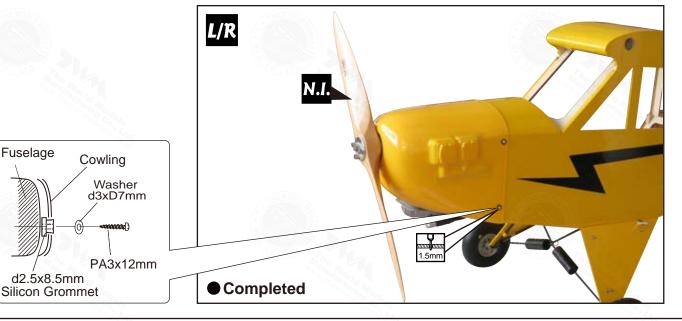


11 Cowling

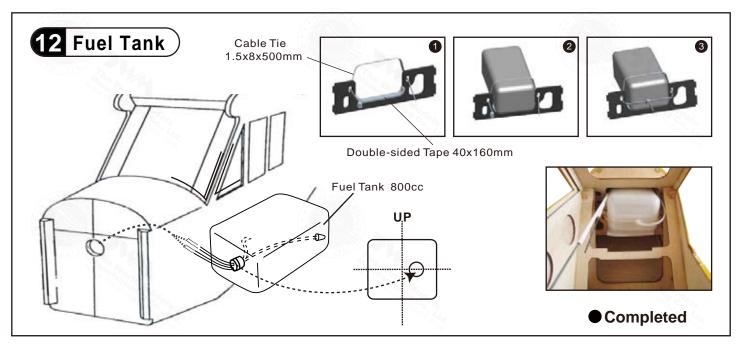


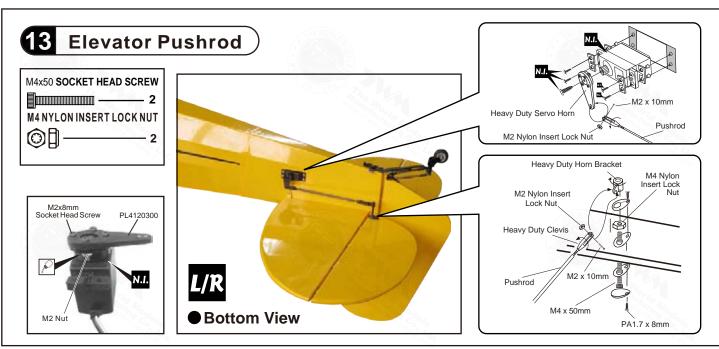
- •Please refer to the attached sheet for usage of the transparent 3D template.
- •First insert the grommet to the cowling then apply screw.

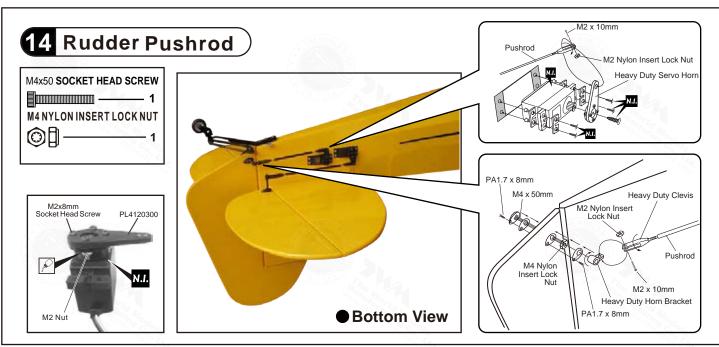


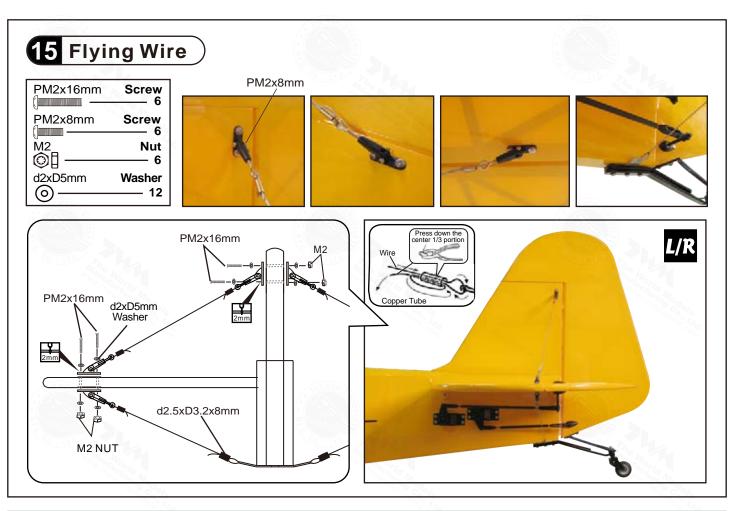


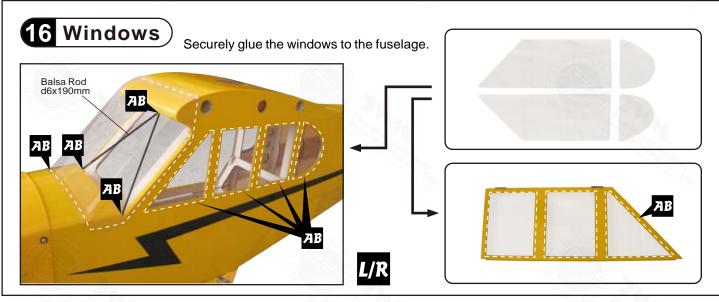
Fuselage

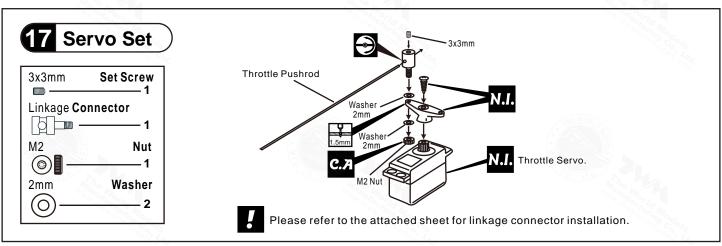


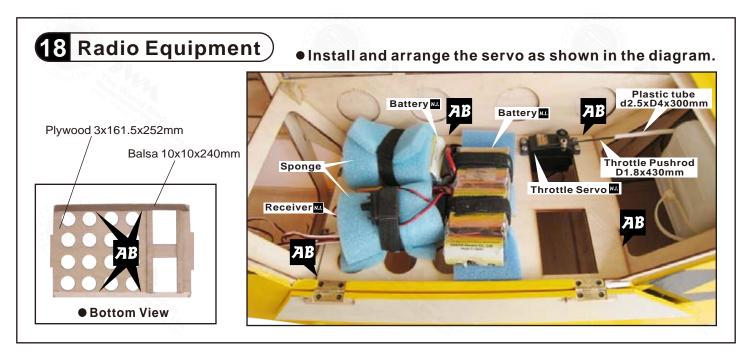


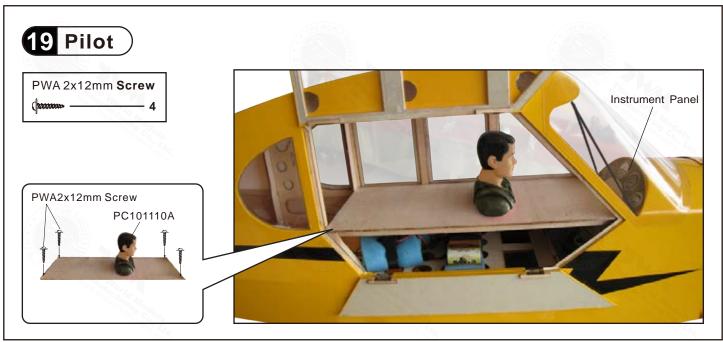


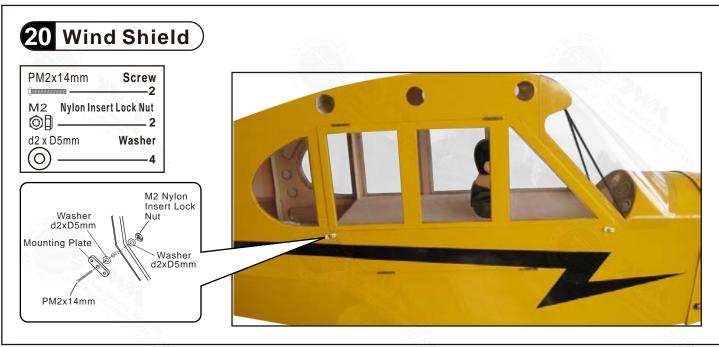


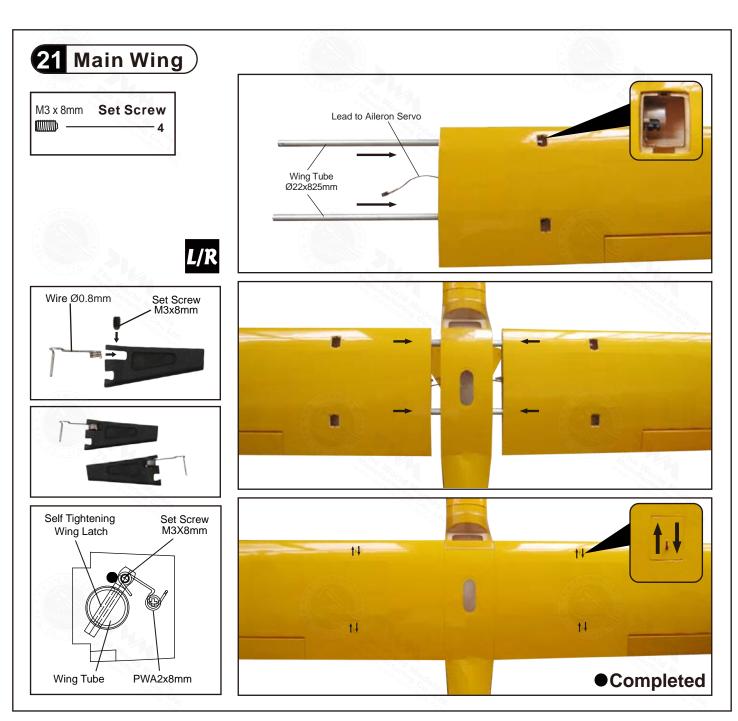


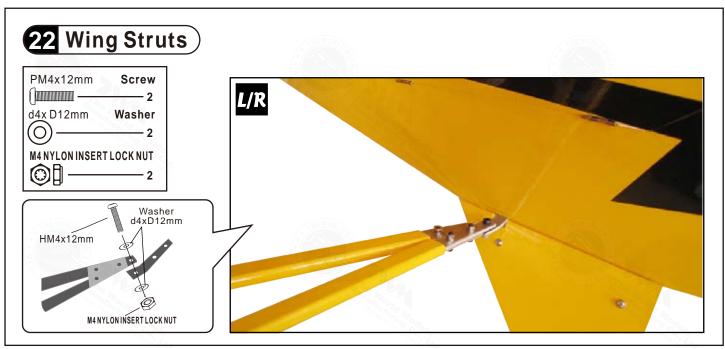










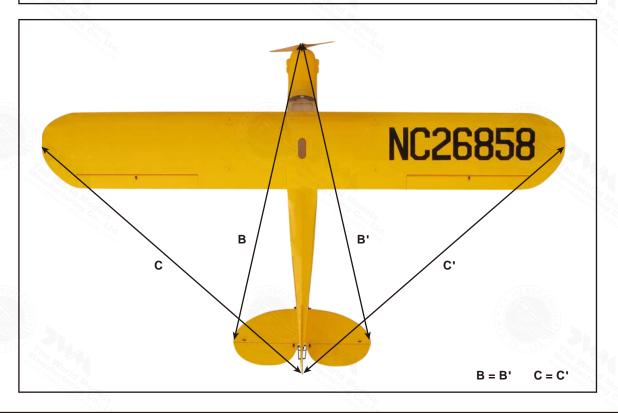


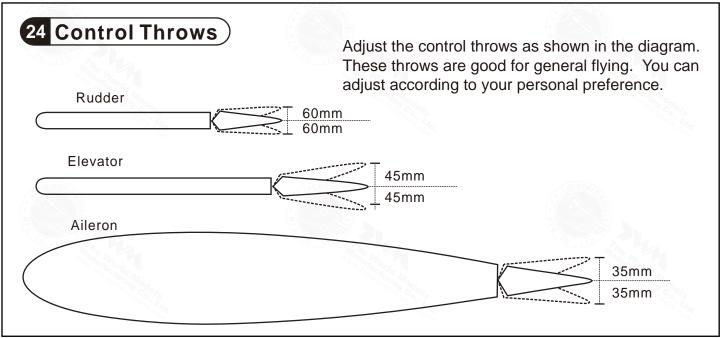
23 Wing Setting

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











! Warning!

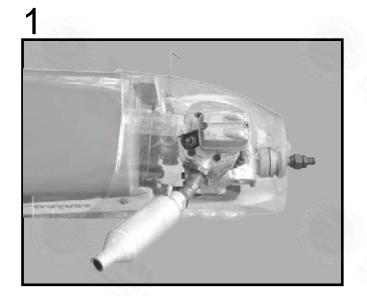
Important Safety Precautions

- # 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.
- # **50CC PIPER CUB** is specially designed to be powered by **50c.c. gasoline** engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause structural 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.

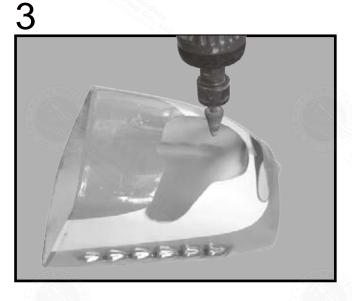
Usage of the transparent 3D template

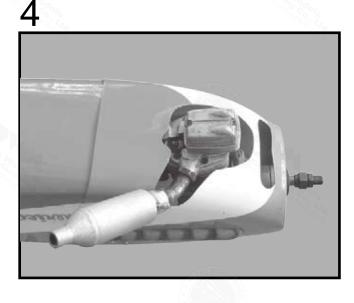


This transparent 3D template is used for position guidance of the actual cutting of the pre-painted cowling.

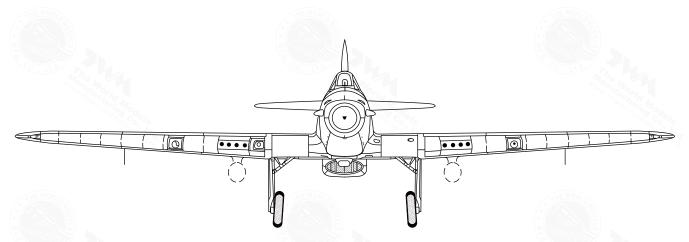








Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.



Ducted Fan

Pattern

Warbirds

Funfly

Scale

Electric

Sports

Glider

Trainer

Boat

Accessories

Covering

(Lightex / Toughlon)

