

1/5 CLIPPED WING CUB



0.60 cu.in. displacement 2-cycle 0.70 cu.in. displacement 4-cycle

Radio required: 4-channel radio w/ 5 servos

Specifications

Wing Span
Wing Area
Flying Weight
Fuselage Length

73 in / 1860 mm 818 sq in / 52.8 sq dm 8 lbs / 3660 g 53 in / 1350 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.



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

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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: -
 - Apply epoxy glue.

- С.Я Apply instant glue (C.A.glue, super glue.)
- L/R Assemble left and right sides the same way.
- Ensure smooth non-binding movement while assembling.





3mm Drill holes with the specified diameter (here: 3mm).



Pay close attention here!



Pierce the shaded portion covering film.

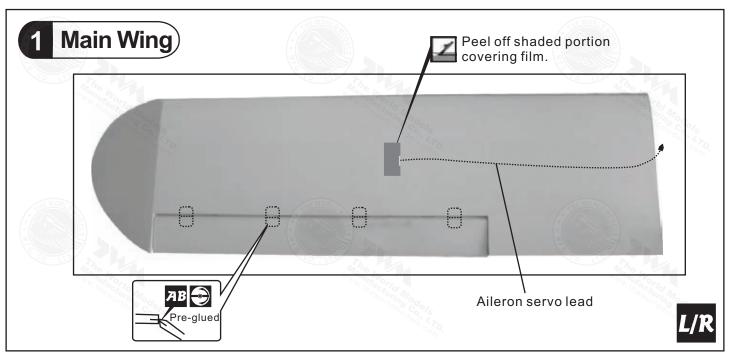


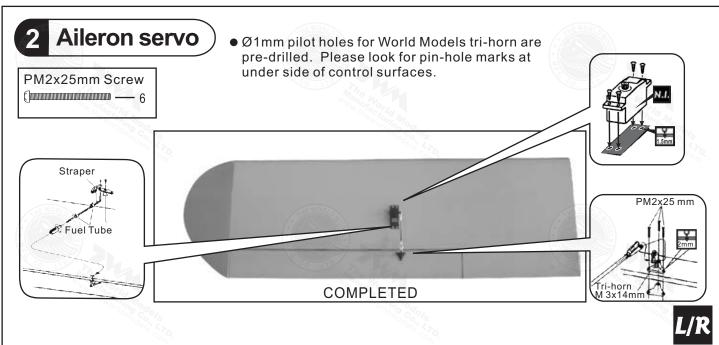
Parts List

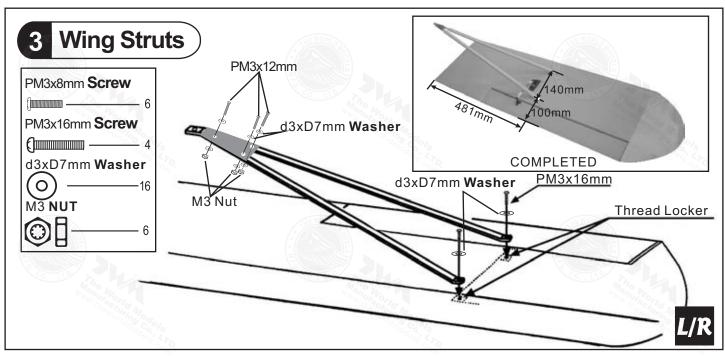
- 1. MAIN WING -- 1 pair
- 2. SCREW PM2x25mm -- 6 pcs TRI-HORN M3x14mm(L) -- 2 sets PUSHROD Ø1.8x90mm w/ Threads(For Aileron)-- 2 pcs STRAPER -- 2 pcs CLEVIS -- 2 pcs FUEL TUBE Ø6x5mm -- 4 pcs
- 3. SCREW PM3x16mm -- 4 pcs WASHER d3xD7mm -- 4 pcs MAIN WING STRUTS -- 1 pair
- 4. STABILIZER & ELEVATOR -- 1 set FUSELAGE -- 1 pc.
- 5. VERTICAL FIN & RUDDER -- 1 set
- 6. TAIL LANDING GEAR Ø2.5mm -- 1 set SCREW PA3x10mm -- 1 pc. SCREW PA3x14mm -- 1 pc. COLLAR Ø2.6mm w/ set screw -- 1 set COPPER PLATE 1x10x34mm (For Flying Wire) -- 1 pc. TAIL WHEEL Ø25mm -- 1 pc.
- 7. ENGINE MOUNT PL5111050 -- 1 set SCREW PM4x22mm -- 4 pcs WASHER d4xD9mm -- 4 pcs
- 8. FUEL TANK 380cc -- 1 set BALSA 8x8x118mm (For Fixing Fuel Tank) -- 1 pc.
- 9. SCREW PM4x30mm -- 4 pcs M4 NUT -- 8 pcs WASHER d4xD9mm -- 8 pcs THROTTLE PUSHWIRE Ø1.2x410mm -- 1 pc. w/ Plastic Tube d2XD3x300mm -- 1 pc.
- 10. COWLING -- 1 pc.
 TRANSPARENT DUMMY COWLING -- 1 pc.
 DUMMY ENGINE COVER -- 1 pair
 SCREW PWA2.6x12mm -- 4 pcs
 SILICON GROMMET d1.5xD6.5mm -- 4 pcs
 SPINNER NUT Ø25mm(HW2340001) -- 1 set
- 11. MAIN LANDING GEAR -- 1 set
 MOUNTING PLATE 2x12x20mm(PL4114020) -- 6 pcs
 SCREW PA3x12mm -- 14 pcs
 SCREW PM3x12mm -- 2 pcs
 WASHER d3xD7mm -- 4 pcs
 ALU.PLATE 2mm (For Stays on Fuselage Bottom) -- 2 pcs
- 12. SCREW PA1.7x8mm -- 6 pcs SCREW PM3x12mm -- 8 pcs M3 NUT -- 8 pcs WASHER d3xD7mm -- 16 pcs COPPER PLATE 0.5x8x13mm (For main landing gear cover) -- 8 pcs PLYWOOD 2mm (main landing gear cover) -- 2 pcs MAIN WHEEL Ø80mm -- 2 pcs COLLAR Ø4.1mm w/ set screw -- 4 sets
- 13. LINKAGE CONNECTOR Ø2.1mm --1 set

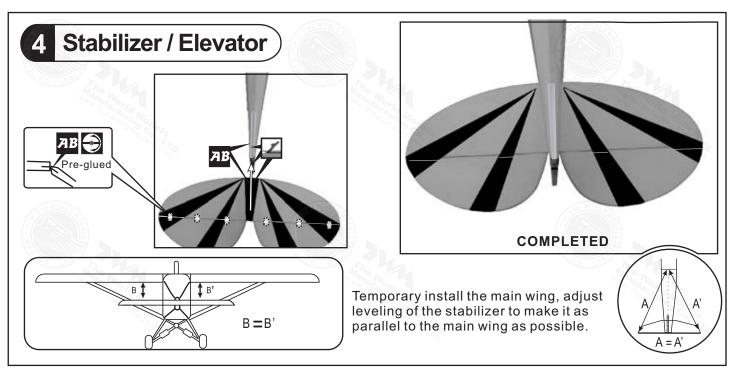
- 14. PUSHROD Ø1.8x130mm (For Elevator) -- 1 pc. CLEVIS -- 2 pcs FUEL TUBE Ø6x5mm -- 2 pcs PUSHROD CONNECTOR 8x9x20mm -- 1 set SPONGE 60x70x122mm (For Radio Equipment) -- 1 pc.
- 15. SCREW PM2x14mm -- 6 pcs CLEVIS -- 2 pcs FUEL TUBE Ø6x5mm -- 2 pcs TRI-HORN M3x14mm(L) -- 2 sets PUSHROD Ø1.8x730mm w/ Threads(For Elevator) -- 2 pcs
- 16. SCREW PM2x14mm -- 3 pcs CLEVIS -- 1 pc. FUEL TUBE Ø6x5mm -- 1 pc. TRI-HORN M3x14mm(L) -- 1 set PUSHROD Ø1.8x860mm w/ threads (For Rudder) -- 1 pc.
- 17. FLYING WIRE Ø1x1480mm -- 1 pc. FLYING WIRE BRACKET -- 6 pcs FLYING WIRE BRACKET CLEVIS -- 4 pcs EYE SCREW M1.8X8x19.5mm -- 4 pcs SCREW PM2x12mm -- 6 pcs SCREW PA2x8mm -- 4 pcs M2 NUT -- 6 pcs COPPER TUBE d2.5xD3.2x8mm -- 8 pcs
- 18. WIND SHIELD & SIDE WINDOWS -- 1 set
- SCREW PWA2x8mm -- 4 pcs
 BALSA 8x116x171mm (For pilot stand) -- 2 pcs
 PILOT PC001085A/B -- 1 pc.
- 20. WIND-SHIELD -- 1 pc. SCREW PWA2.3x12mm -- 10 pcs SILICON GROMMET d1.5xD6.5mm -- 4 pcs
- 21. SCREW PM3x18mm -- 2 pcs SCREW PA3x18mm -- 2 pcs WASHER d3xD7mm -- 4 pcs WING TUBE Ø14.5x427mm -- 2 pcs
- 22. SCREW PM3x12mm -- 2 pcs WASHER d3xD7mm -- 4 pcs M3 NUT -- 2 pcs
- 23. DECALS -- 1 set
- COVERING:--

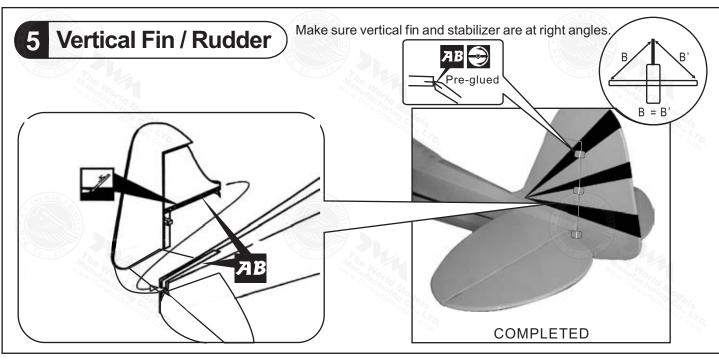
(CUB YELLOW WITH THUNDER BOLT)
TOUGHLON STL 201 BLACK
TOUGHLON STL 331 CUB YELLOW
(BLUE / WHITE SUNBURST)
TOUGHLON STL 100 WHITE
TOUGHLON STL 251 SKY BLUE
(RED / WHITE SUNBURST)
TOUGHLON STL 100 WHITE
TOUGHLON STL 101 BRIGHT RED

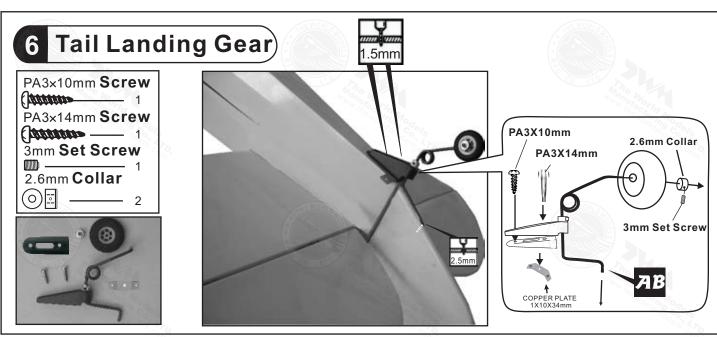


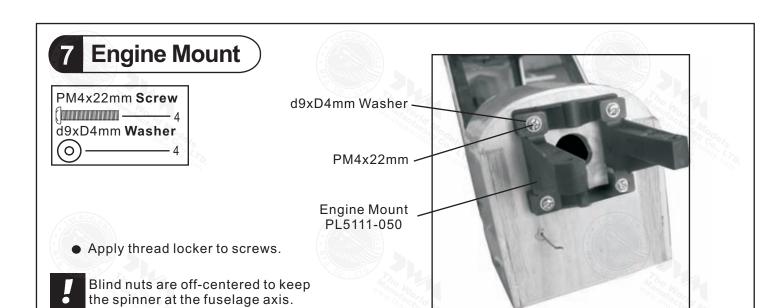


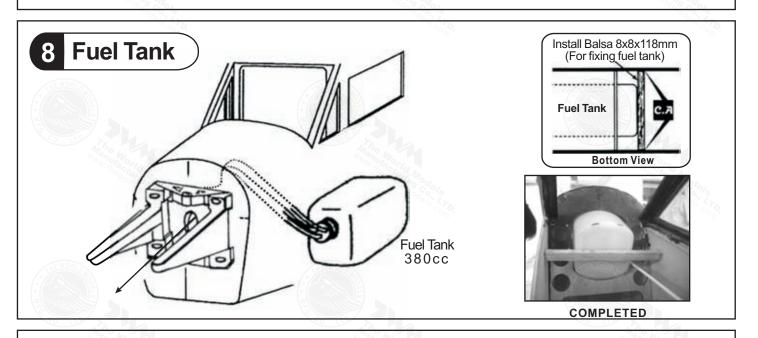


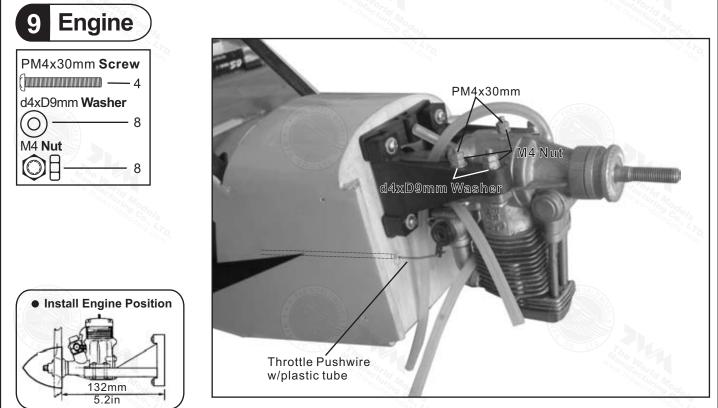


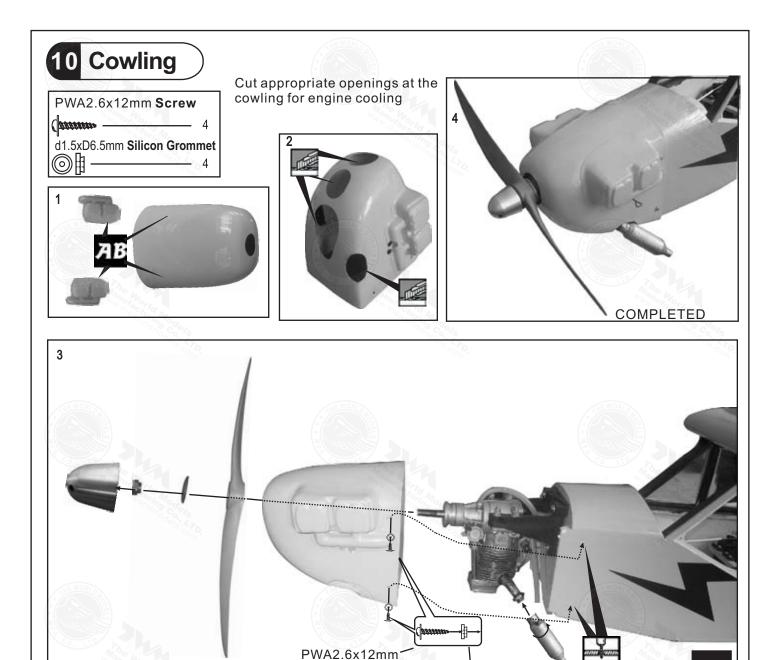


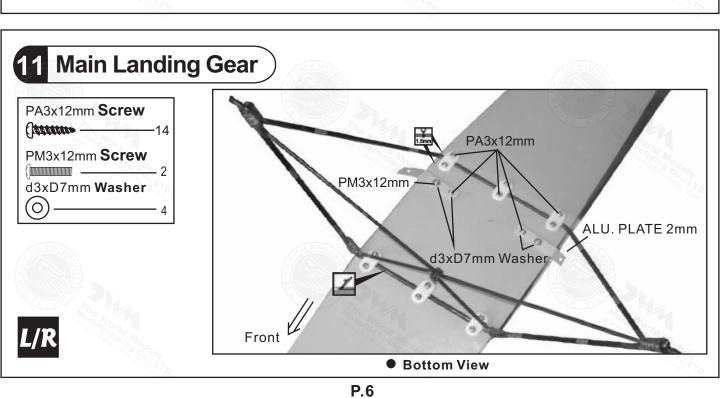




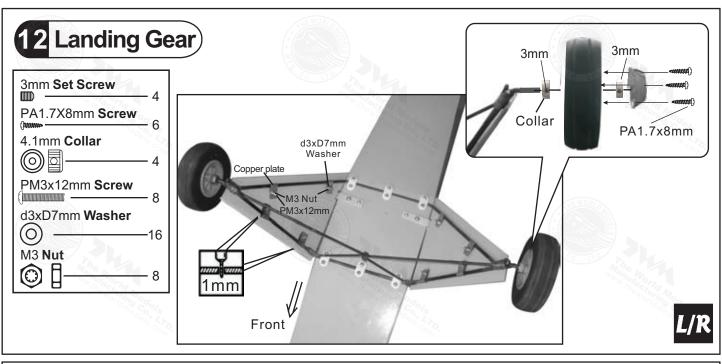


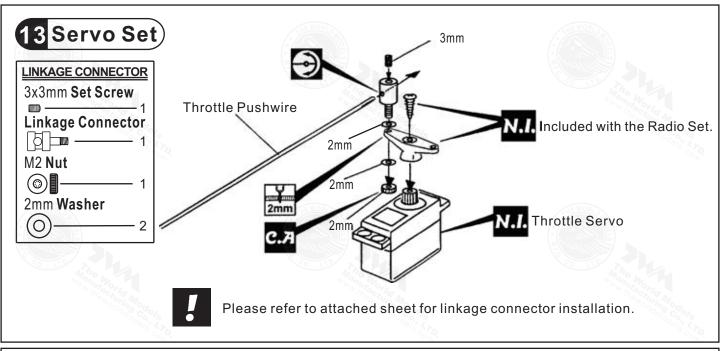


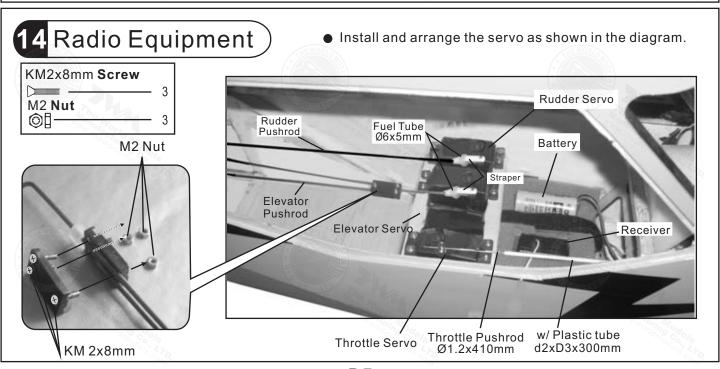


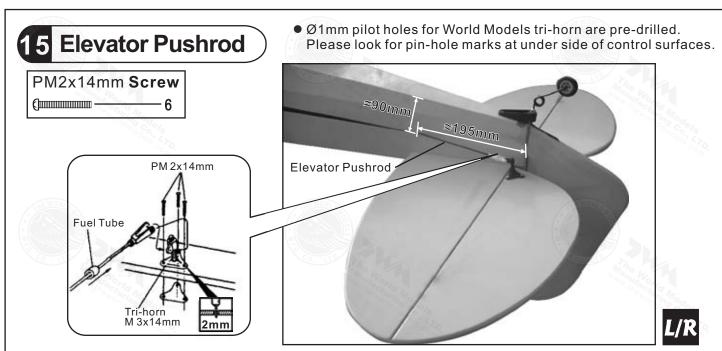


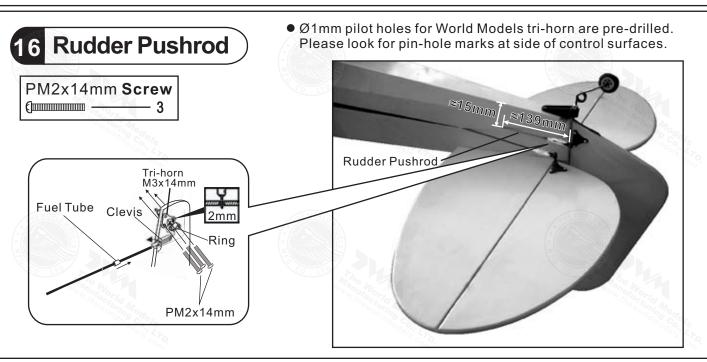
d1.5xD6.5mm silicon Grommet

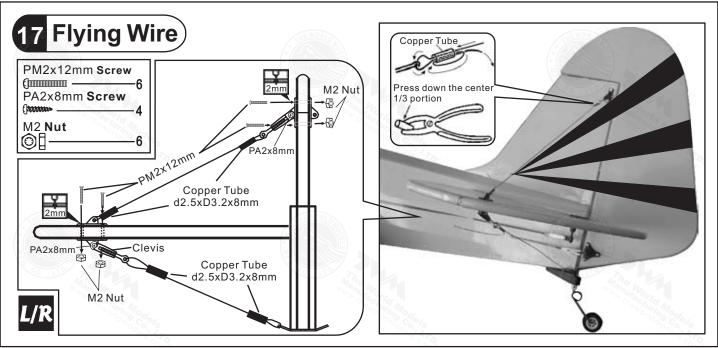


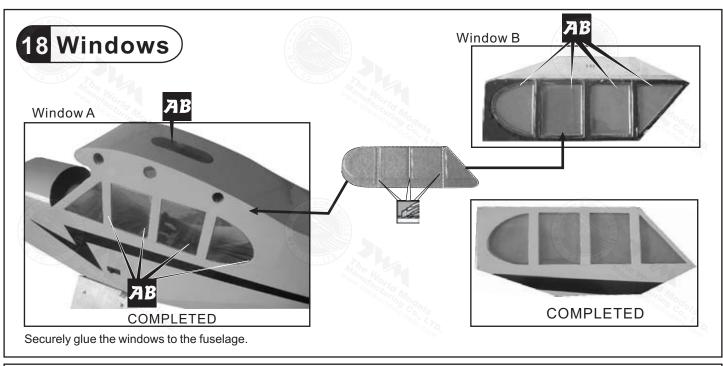


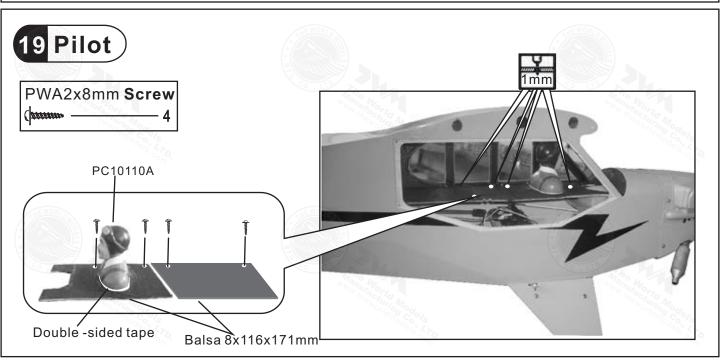


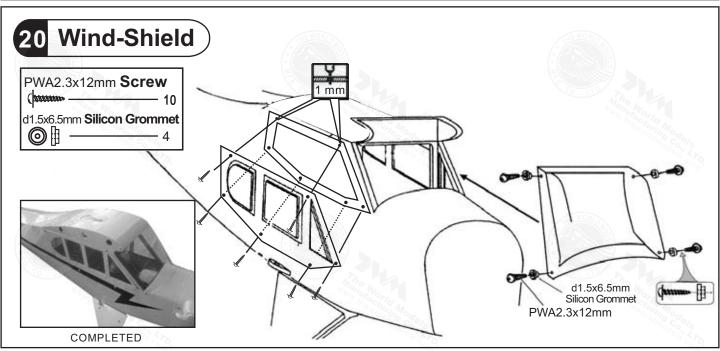








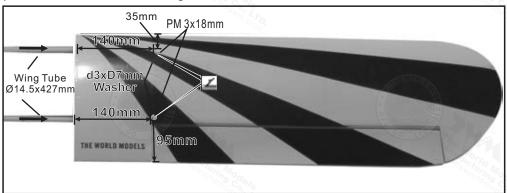




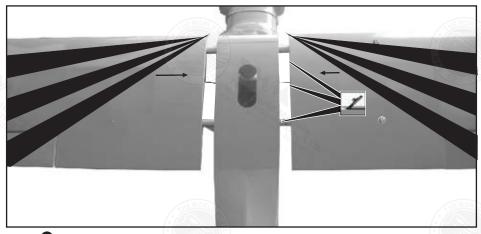
21 Main Wing



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 PM3x18mm 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 PM3x18mm 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.

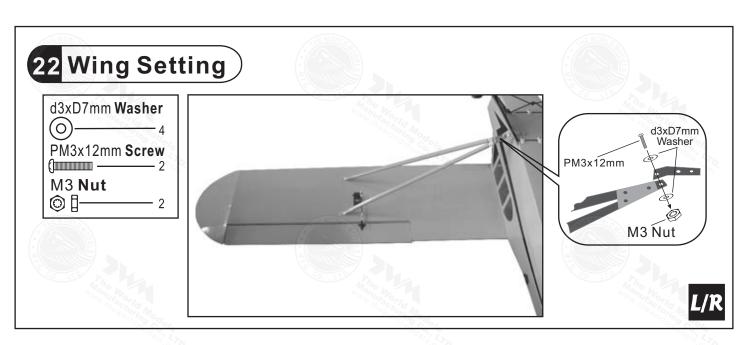


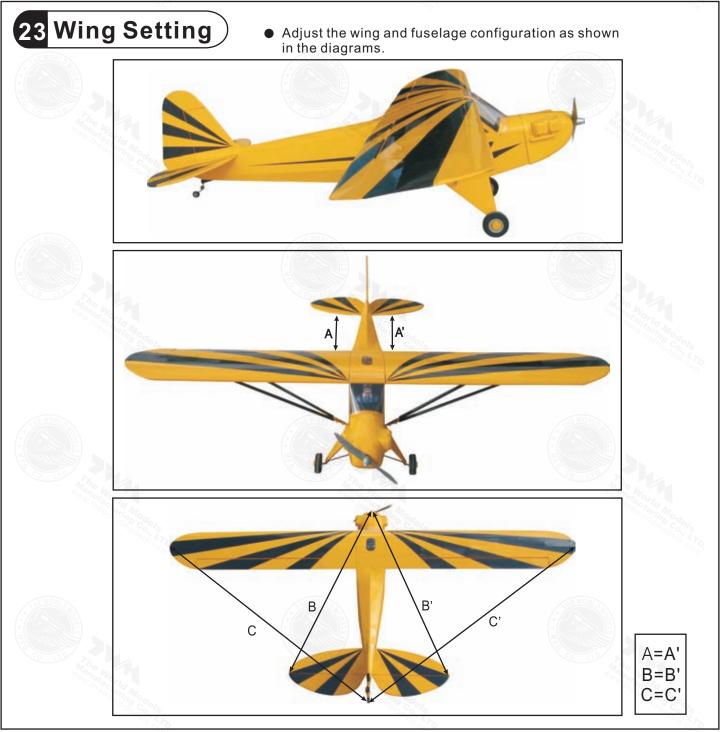
Top View

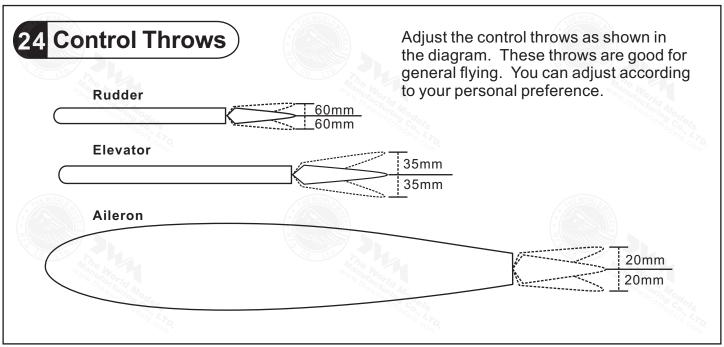


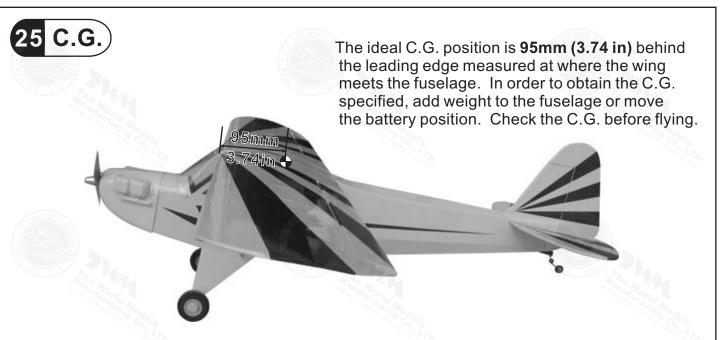
Step 3. Make sure the wings are resting against the fuselage tightly. Locate the predrilled 2.5mm hole at top of left wing, and drill along with 2.5mm drill bit until it passes through the wing tube. Apply the PA3x18mm self-tapping screw.

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 pre-tap with M3 thread cutter and apply M3 machine screw.









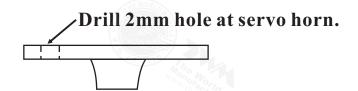
! Warning!

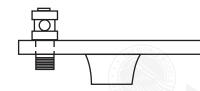
Important Safety Precautions

- #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.
- #1/5 CLIPPED WING CUB is specially designed to be powered by 2C 0.60 or 4C 0.70 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.
- #Check and re-tighten up all factory assembled screws, use thread locker if applicable.

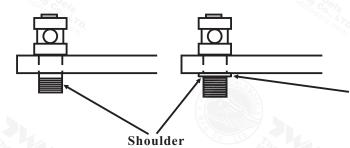
LINKAGE CONNECTOR

HW71110530 & HW7111060

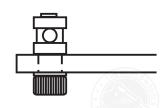




Insert linkage connector into servo horn.



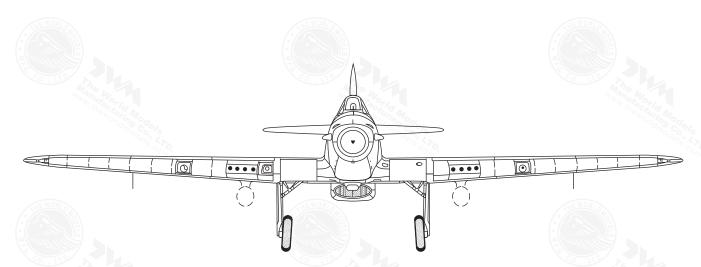
Make sure shoulder of screw is cleared from servo horn.
Add washer to reduce play if necessary.



Tighten up the round nut against the shoulder. Apply CA or permanent thread locker.

After fastening the round nut, make sure that the linkage connector can rotate freely.

Product Registration	n Form (US Customers)	
We would like to share wit	h you any relevant information regai	rding your model, including
product news and free upg	grade parts when applicable. Please	e fill in the following and send to
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Ducted Fan

Pattern

Warbirds

Funfly

Scale

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Sports

Glider

Trainer Boat

Accessories

Covering

(Lightex /oughlon)

