Before commencing assembly, please read these instructions thoroughly.

PIPER J-3 CUB EP



Specifications

Wing Span: 48.5 in / 1230 mm

Wing Area: 330 sq in / 21.3 sq dm

Flying Weight: 26 oz / 740 g

Fuselage Length: 30.5 in / 760 mm

Requires: Speed 400 motor, 4- channel radio

w/4 micro servos, 15A speed controller

and 7-8 cells 1000 mAh battery



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 electric 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.*



THE WINGS MAKER
FACTORY PRE-FABRICATED
ALMOST-READY-TO-FLY (ARF) SERIES
MADE IN CHINA
www. thewingsmaker. com

PIPER J-3 CUB EP

-INDEX—

BEFORE YOU BE	GIN	P. 1
PARTS LIST		P. 2
ASSEMBLY		P.3-P.10
SAFETY PRECAL	JTIONS	P. 10 Maker

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 throughtout 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. PUSHROD Ø1.4x70mm w/ Threads (For Aileron) -- 2 pcs HORN -- 2 sets CLEVIS -- 2 pcs STRAPER -- 2 pcs FUEL TUBE Ø4x4mm -- 4 pcs SCREW PM2x18mm -- 4 pcs
- 3. PLYWOOD 5x13x82mm(Wing Joiner) -- 1 pc.
- 4. STABILIZER & ELEVATOR -- 1 set FUSELAGE -- 1 pc. ELEVATOR LINK PL4510010 -- 1 pc. SCREW PM2x8mm -- 2 pcs
- 5. VERTICAL FIN & RUDDER -- 1 set
- 6. TAIL LANDING GEAR -- 1 set SCREW PA2x8mm -- 2 pcs BALSA 3x6x7mm -- 1 pc. SCREW PM2x8mm -- 1 pc. M2 NUT -- 1 pc. AI REINFORCEMENT PLATE -- 1 pc.
- 7. FUEL TUBE Ø4x4mm -- 1 pc.
 CLEVIS -- 1 pc.
 PUSHROD Ø1.4x415mm w/ Threads(For Elevator) -- 1 pc.
- 8. PUSHROD Ø1.4x420mm w/ Threads(For Rudder) -- 1 pc. FUEL TUBE Ø4x4mm -- 1 pc. CLEVIS -- 1 pc. HORN -- 1 set SCREW PM2x8mm -- 2 pcs
- 9. SPEED 400 MOTOR -- 1 set
 GEAR BOX -- 1 set
 PROPELLER -- 1 pair
 SPINNER Ø36mm -- 1 set
 COWLING -- 1 pc.
 DUMMY ENGINE COVER -- 1 pair
 MOUNT PLATE (PL4114015) -- 1 pc.
 SCREW PWA2x8mm -- 4 pcs
 WASHER d2xD5mm -- 1 pc.
 M2 NYLON INSERT LOCK NUT -- 1 pc.
 SCREW PM2x10mm -- 1 pc.

- 10. WIND SHIELD & SIDE WINDOWS -- 1 set SCREW PWA2x8mm -- 4 pcs
- 11. SPONGE 10x50x150mm -- 1 pc.

 DOUBLE-SIDED TAPE 30x35mm -- 1 pc.

 FUEL TUBE Ø4x4mm -- 2 pcs

 BATTERY TIE -- 1 pc.

 STRAPER -- 2 pcs
- 12. MAIN LANDING GEAR --1 set

 MAIN WHEEL Ø50mm--2 pcs

 LANDING WIRE STRAPS (PL4114030) -- 3 pcs

 PVC PLATE 0.5x6x32mm (For Main Landing Gear) -- 2 pcs

 BALSA 22x73x80mm (Main Landing Gear Cover) -- 2 pcs

 SCREW PA2.6x10mm -- 6 pcs

 COLLAR Ø2.6mm w/ set screw -- 4 sets

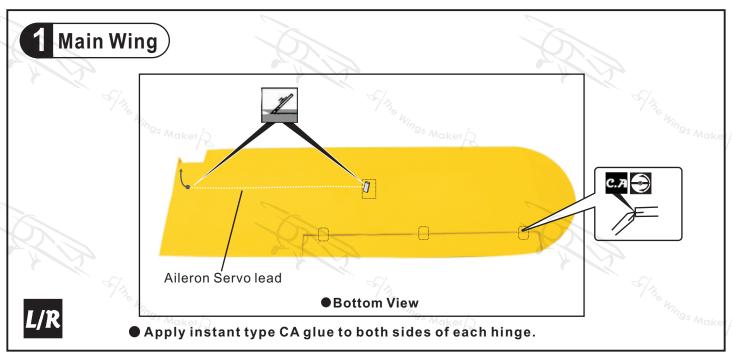
 SCREW PM2x6mm -- 4 pcs

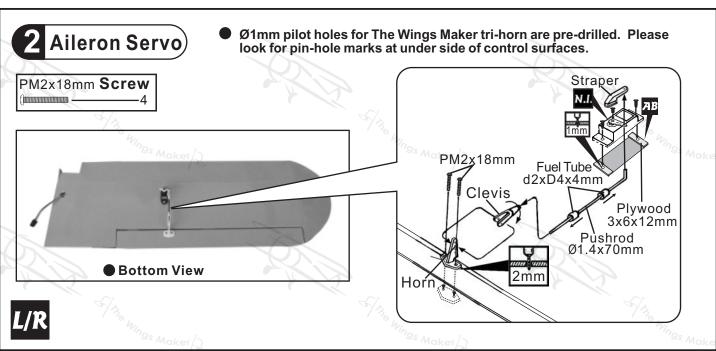
 WASHER d2xD5mm -- 4 pcs

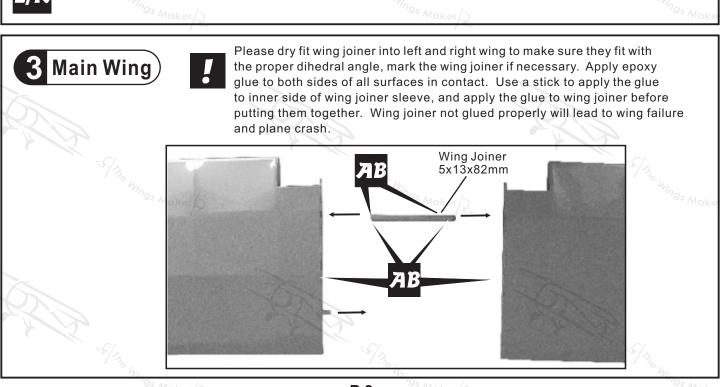
 M2 NUT -- 4 pcs

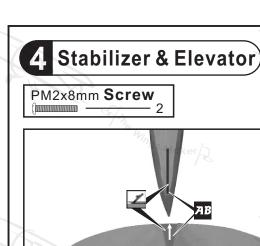
 TRANSPARENT DECALS 20x70mm -- 4 pcs
- 13. SCREW PM2.5x25mm -- 2 pcs
 WASHER d2.6xD7mm -- 2 pcs
 BALSA 6x25x82mm (Wing Protection) -- 1 pc.
- 14. SCREW PA2.3x8mm -- 6 pcs MAIN WING STRUTS -- 1 pair
- 15. DECALS -- 1 set
- COVERING:--

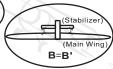
LIGHTEX SGX 331 CUB YELLOW







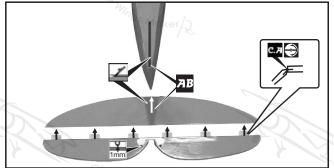


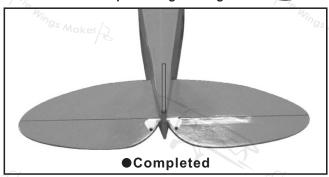


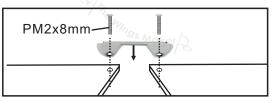
Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.



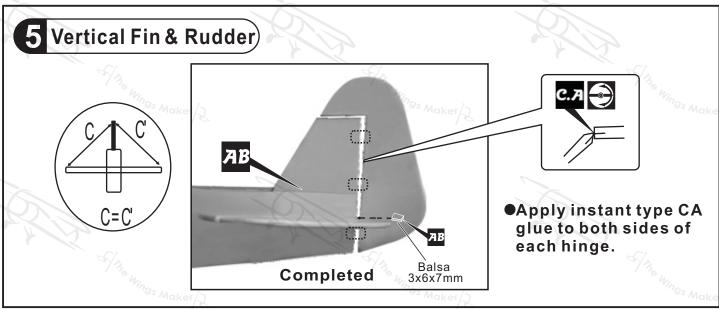
*Also refer to step 15 Wing Setting

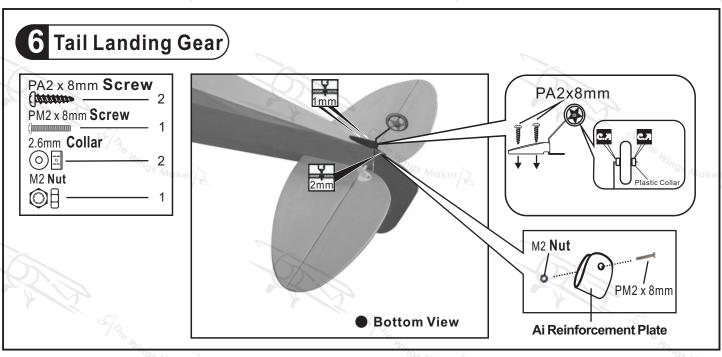




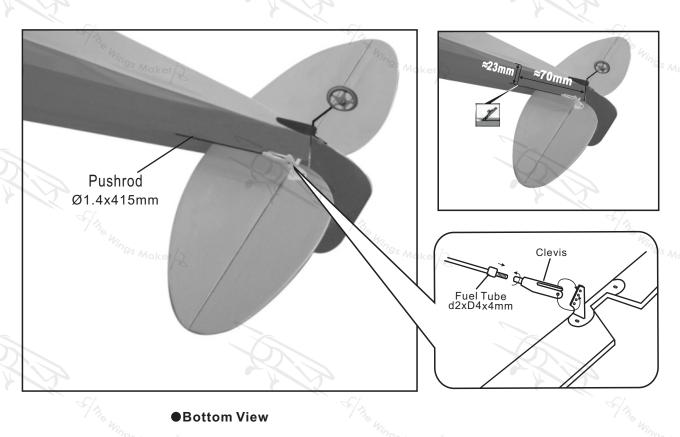


- Ø1mm pilot holes for Wings Maker tri-horn are pre-drilled.
 Please lood for pin-hole marks at under side of control surfaces.
- Apply instant type CA glue to both sides of each hinge.





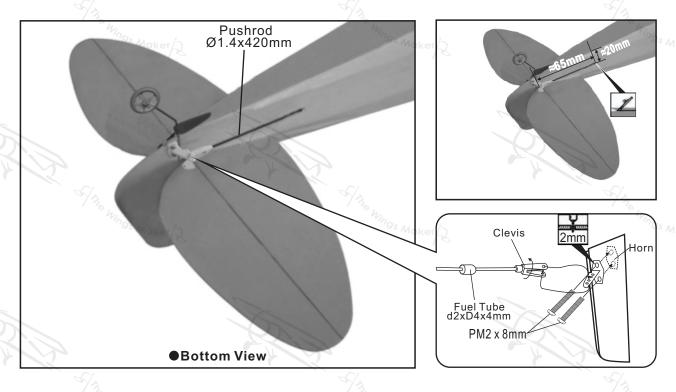
7 Elevator Pushrod



8 Rudder Pushrod

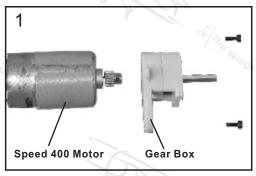
PM2 x 8mm Screw

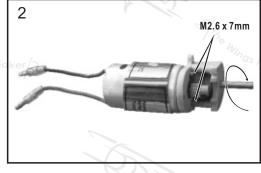
 Ø1mm pilot holes for The Wings Maker tri-horn are pre-drilled. Please look for pin-hole marks at side of control surfaces.

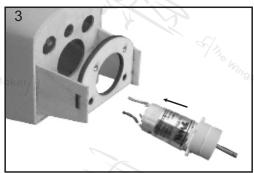


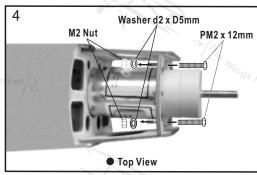
9 Motor / Cowling Setting



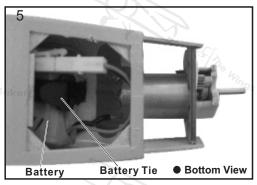


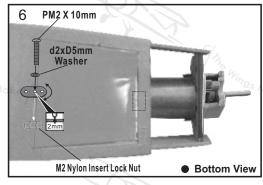




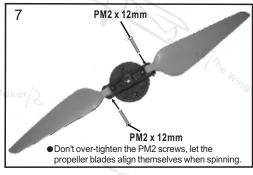


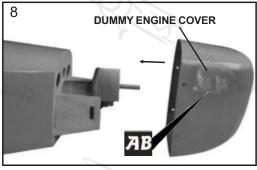
• TO ALLOW FOR BACKLASH OF MATCHING GEAR, PUT A PIECE OF THIN PAPER BETWEEN THE GEARS AND THEN TIGHTEN THE M2.6X7mm SCREWS. REMOVE THE PAPER BEFORE FLYING.

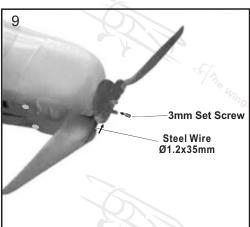


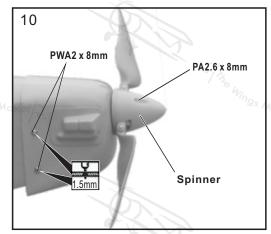




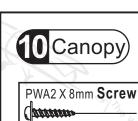


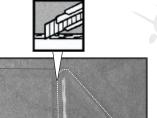


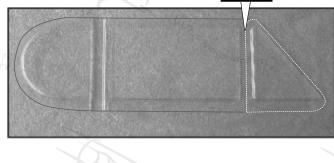


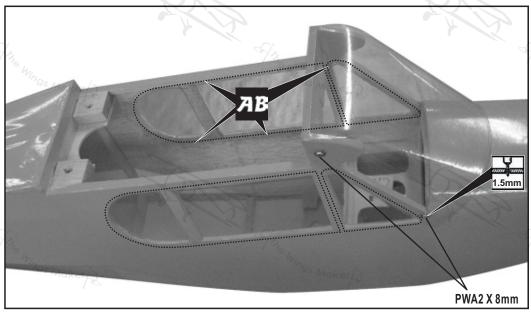




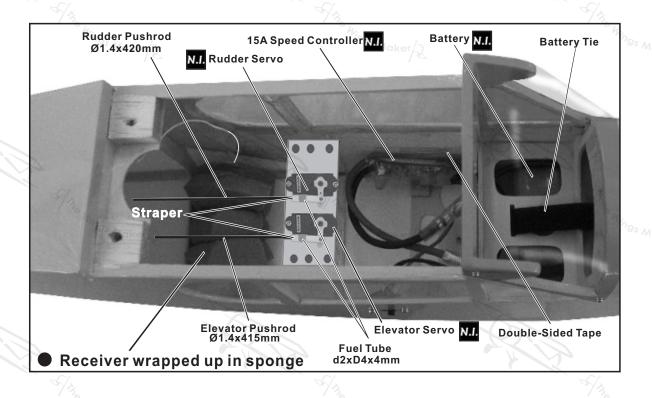


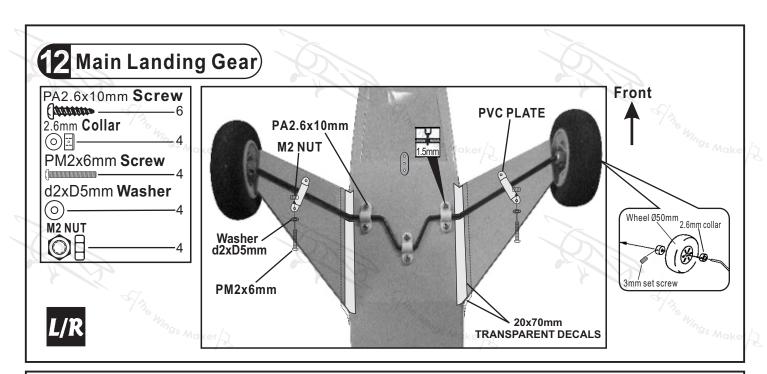






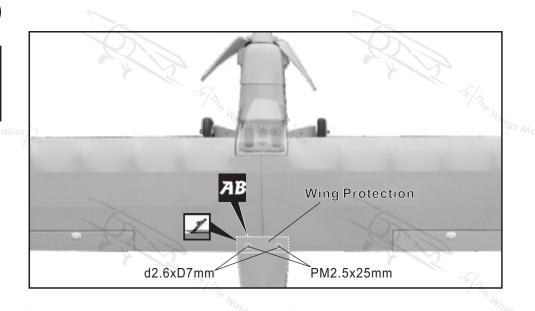
11 Radio Equipment





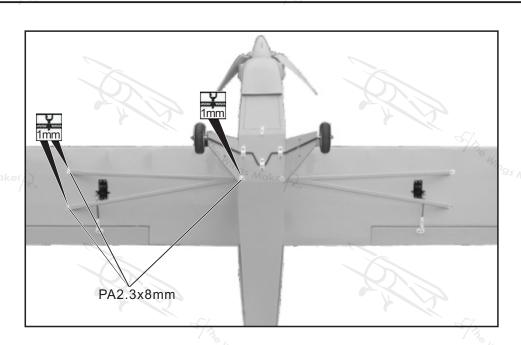
13 Main Wing

PM2.5x25mm **Screw**2
d2.6xD7mm **Washer**2



4 Wing Struts

PA2.3x8mm Screw



L/R

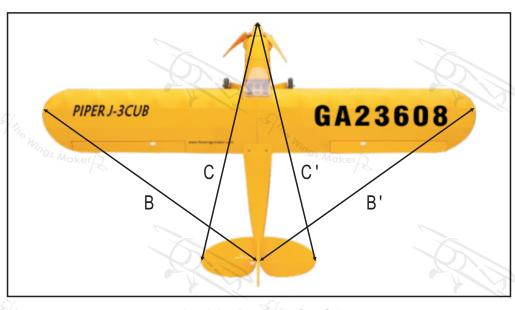


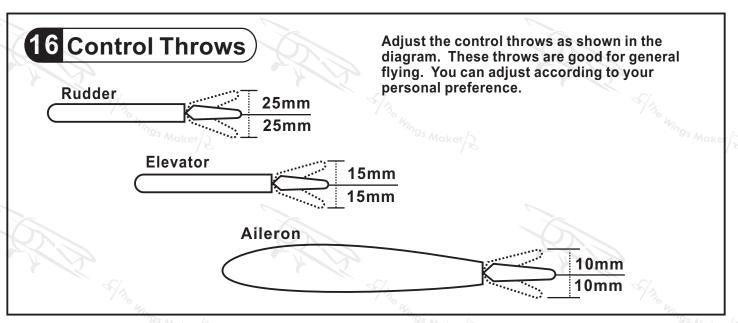
• Adjust the wing and fuselage configuration as shown in the diagrams.

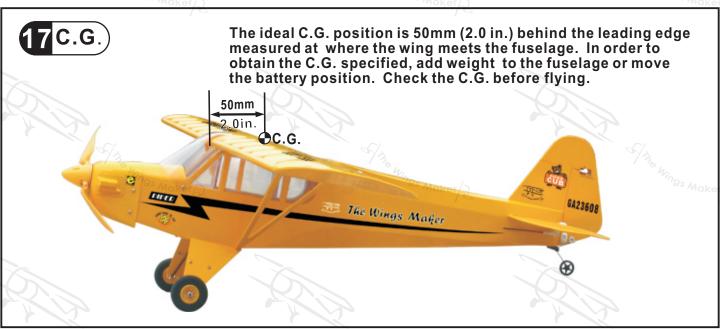












Warning!

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.

#PIPER J-3 CUB EPspecially designed to be powered by Speed 400 geared 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.

#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 necessary.

thewingsmaker. com



IE WINGS MAKER Nings Maker

GE0160708