

Before commencing assembly, please read these instructions thoroughly.

# PIPER J-3 CUB 26



**ARF** *Almost Ready to Fly*

## Specifications

**Wing Span:** 51.0 in / 1300mm  
**Wing Area:** 419 sq in / 27.0 sq dm  
**Flying Weight:** 3.3-4.0 lbs / 1.5-1.8 kg  
**Fuselage Length:** 33.0 in / 840 mm  
**Requires:** 2-stroke 0.25 or 4-stroke 0.30 engine  
**4-channel radio w/ 4 servos**



**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.\*



**THE WINGS MAKER**  
 FACTORY PRE-FABRICATED  
 ALMOST-READY-TO-FLY (ARF) SERIES  
 MADE IN CHINA  
[www.thewingsmaker.com](http://www.thewingsmaker.com)

**GA022**

# PIPER J-3 CUB 26

## INDEX

BEFORE YOU BEGIN .....	P. 1
PARTS LIST .....	P. 2
ASSEMBLY.....	P. 3 - 10
SAFETY PRECAUTIONS .....	P. 10

## BEFORE YOU BEGIN

- 1** Read through the manual before you begin, so you will have an overall idea of what to do.
- 2** 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.)



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).



Must be purchased separately!



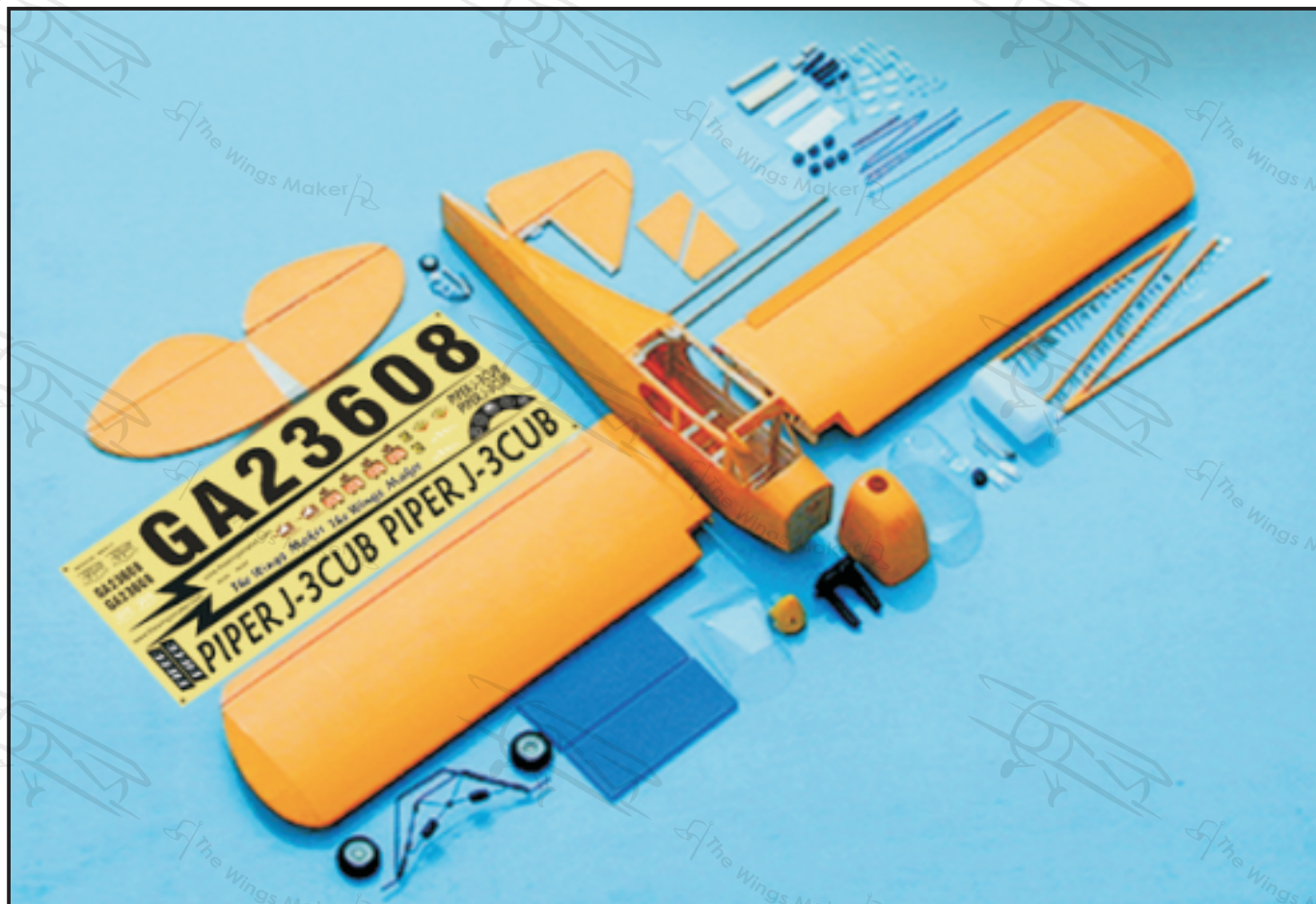
Pay close attention here!



Do not overlook this symbol!



Pierce the shaded portion  
covering film.



## Parts List

1. ENGINE MOUNT PL5111-020 ( 15-40 ) --1 set  
SCREW PM3x18mm--4 pcs  
WASHER d3xD7mm--4 pcs  
FUSELAGE--1 set
  2. FUEL TANK 200cc--1 set  
BALSA 8x8x78mm (For Fixing Fuel Tank)--1 pc.
  3. SCREW PM3x25mm--4 pcs  
WASHER d3xD7mm--8 pcs  
M3 NUT--8 pcs  
THROTTLE PUSHWIRE Ø1.2x230mm  
w/ Plastic Tube d2xD3x140mm--1 set
  4. SCREW PM3x16mm--2 pcs  
WASHER d3xD7mm--2 pcs  
ALUMINUM PLATE 1.5x12.6x31mm--2 pcs  
M3 NUT--2 pcs
  5. SCREW PA3x10mm--8 pcs  
PLATE (For Landing Gear)--4 pcs  
MAIN LANDING GEAR--1 set
  6. BALSA 2x90x80mm (For Landing Gear)--2 pcs  
WOOD U-Type 6x10x13mm (For Landing gear)--6 pcs  
MAIN WHEEL Ø50mm--2 pcs  
COLLAR Ø3.1mm w/set screw--4 sets
  7. SCREW PWA2.3x8mm--4 pcs  
WIND SHIELD & SIDE WINDOWS--1 set
  8. COWLING --1 pc.  
TRANSPARENT DUMMY COWLING--1 pc.  
SCREW PWA2.6x12mm--4 pcs  
SILICON GROMMET d1.5xD6.5mm--4 pcs  
SPINNER Ø45mm--1 pc.
  9. MAIN WING--1 pair  
PLYWOOD 6x82x20mm (Wing Joiner)--1 pc.
  10. PUSHROD Ø1.8x80mm w/ Threads (For Aileron )--2 pcs  
FUEL TUBE Ø6x5mm--4 pcs  
BALSA 5x8x20mm (For Aileron Servo stand)--2 pcs  
STRAPER--2 pcs  
CLEVIS--2 pcs  
RING 2.3mm--2 pcs
  11. VERTICAL FIN & RUDDER--1 set  
STABILIZER & ELEVATOR--1 set
  12. TAIL LANDING GEAR --1 set  
SCREW PM2x12mm--7 pcs  
M2 NUT--1 pc  
COLLAR Ø2.1mm w/ set screw--1 set  
SCREW PA2.6x12mm--2 pcs  
TAIL WHEEL Ø23mm--1 pc.  
HORN--3 sets  
AL .Reinforcement Plate 0.5mm--1 pc.
  13. LINKAGE CONNECTOR Ø2.1mm--1 set
  14. FUEL TUBE Ø6x5mm--2 pcs  
PUSHROD Ø1.8x160mm w/ Threads (For Rudder)--1 pc.  
PUSHROD Ø1.8x120mm (For Rudder)--1 pc.  
WOODEN ROD Ø6x280mm (For Rudder)--1 pc.  
CLEVIS --1 pc.  
STRAPER --1 pc.  
HEAT-SHRINK TUBE Ø6x40mm--2 pcs
  15. WOODEN ROD Ø6x280mm (For Elevator)--1 pc.  
HEAT-SHRINK TUBE Ø6x40mm--2 pcs  
PUSHROD Ø1.8x165mm w/ Threads (For Elevator)--1 pc.  
PUSHROD Ø1.8x155mm w/ Threads (For Elevator)--1 pc.  
CLEVIS --2 pcs  
STRAPER --1 pc.  
PUSHROD Ø1.8x120mm (For Elevator)--1 pc.  
FUEL TUBE Ø6x5mm--3 pcs
  16. SPONGE 10x80x200mm (For Radio Equipment)--2 pcs
  19. PLYWOOD 3mm (Wing Struts)--1 pair  
SCREW PA2.6x12mm--4 pcs
  20. SCREW PM3x30 mm--2 pcs  
PVC PLATE 1x30x84mm (Wing Protection)--1 pc.  
SCREW PM3x10mm--2 pcs  
WASHER d3xD12mm--2 pcs  
M3 NUT--2 pcs
  21. DECALS --1 set
- COVERING:  
LIGHTEX SGX311 CUB YELLOW



## 1 Engine Mount

PM3x18mm Screw



d3xD7mm Washer

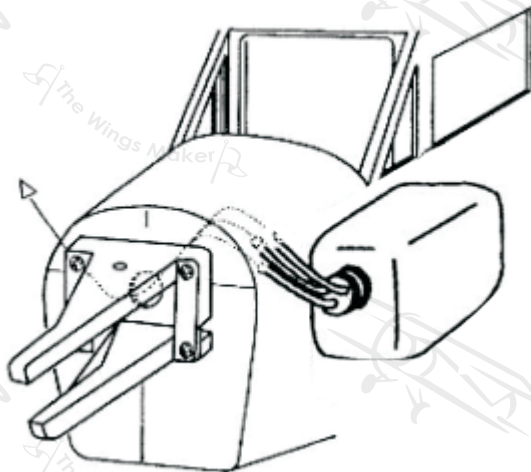


Engine Mount  
PL5111-020(15-40)

d3xD7mm  
Washer

PM3x18mm

## 2 Fuel Tank



Install Basla 8x8x78mm  
(For fixing fuel tank)

Fuel Tank  
200cc

AB

## 3 Engine

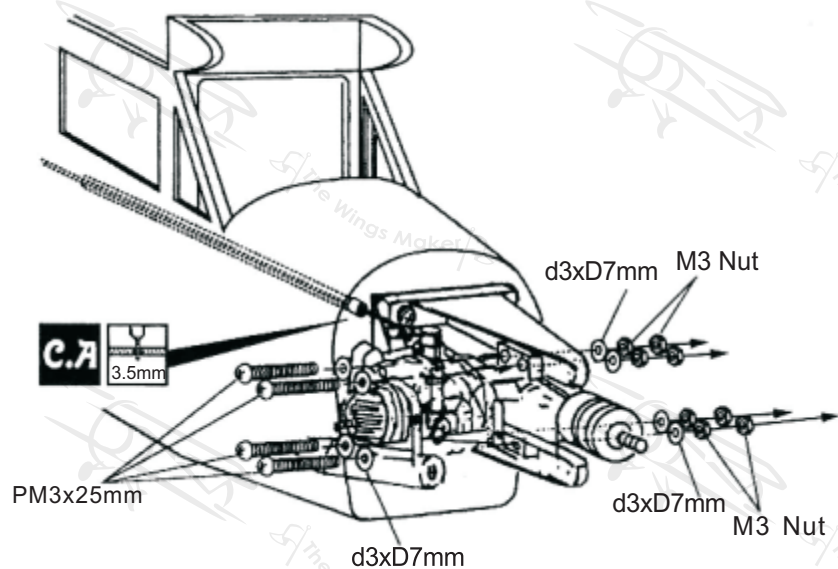
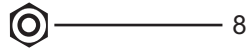
PM3x25mm Screw



d3xD7mm Washer



M3 Nut



## 4 Landing Gear

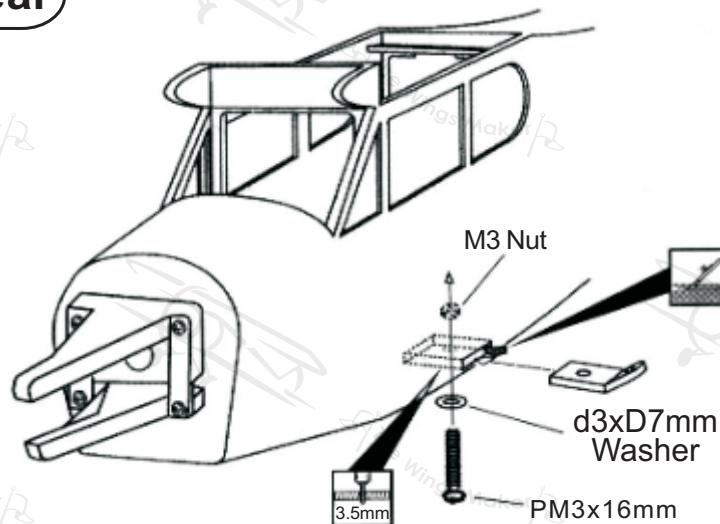
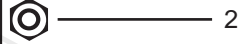
PM3x16mm Screw



d3xD7mm Washer



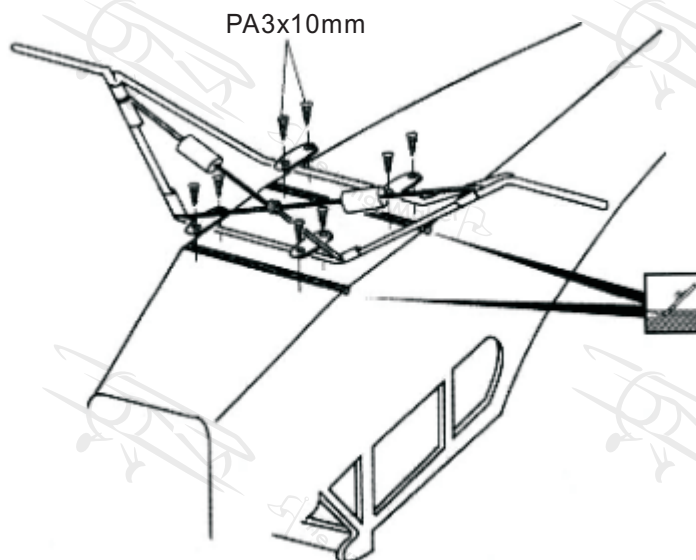
M3 Nut



**L/R**

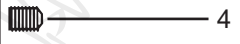
## 5 Landing Gear

PA3x10mm Screw

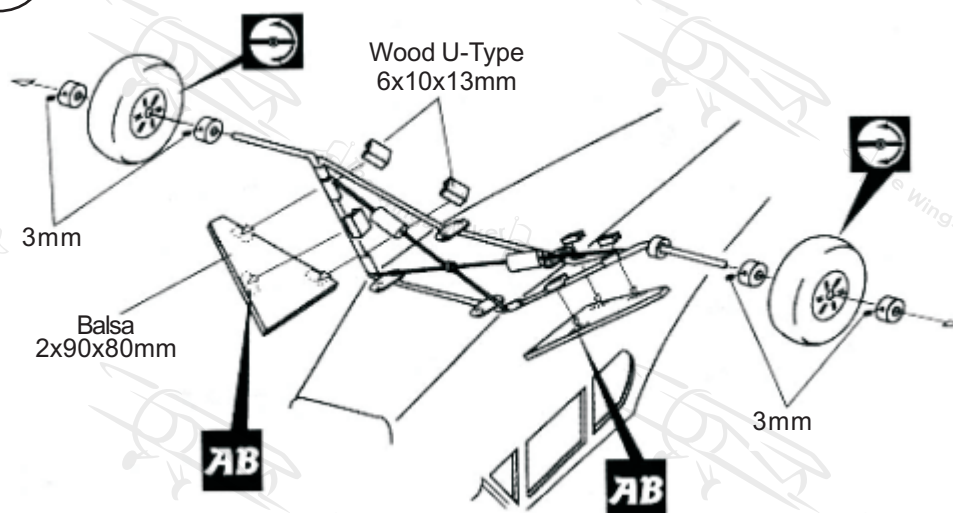


## 6 Landing Gear

3mm Set Screw



3.1mm Collar



## 7 Canopy

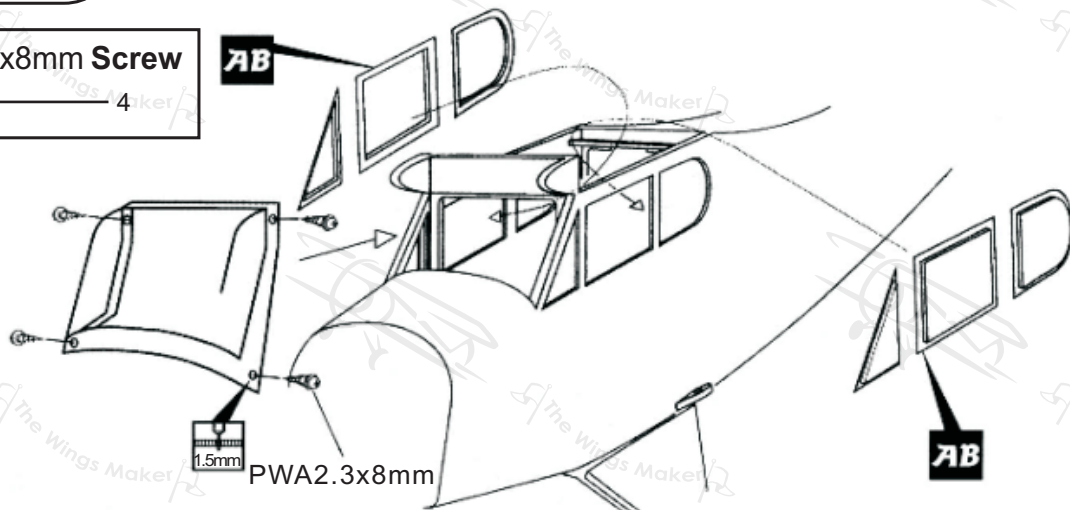
Securely glue the windows to the fuselage.

PWA2.3x8mm Screw



4

AB



## 8 Cowling

Trim the cowling for the engine head to project

PWA2.6x12mm Screw



4

d1.5xD6.5mm Silicon Grommet



4

PWA2.6x12mm



!

1.5mm

L/R

d1.5xD6.5mm Silicon Grommet

## 9 Main Wing

**! Warning!**

Apply glue to both sides of all surfaces in contact. Use a stick to apply glue to inner side of wing joiner sleeve, and apply glue to wing joiner before putting them together. Wing joiner not glued properly will lead to wing failure and plane crash.

Wing Joiner  
6 x 82 x 20mm

AB

AB

AB

C.A

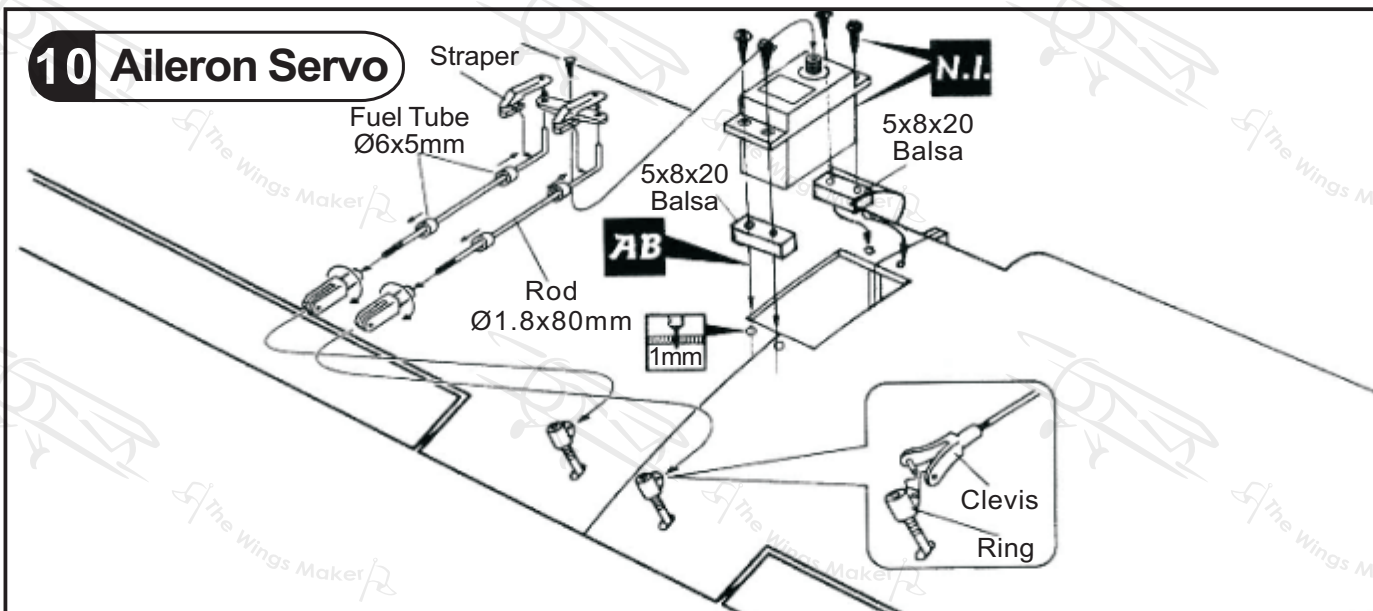
- Apply instant type CA glue to both sides of each hinge.



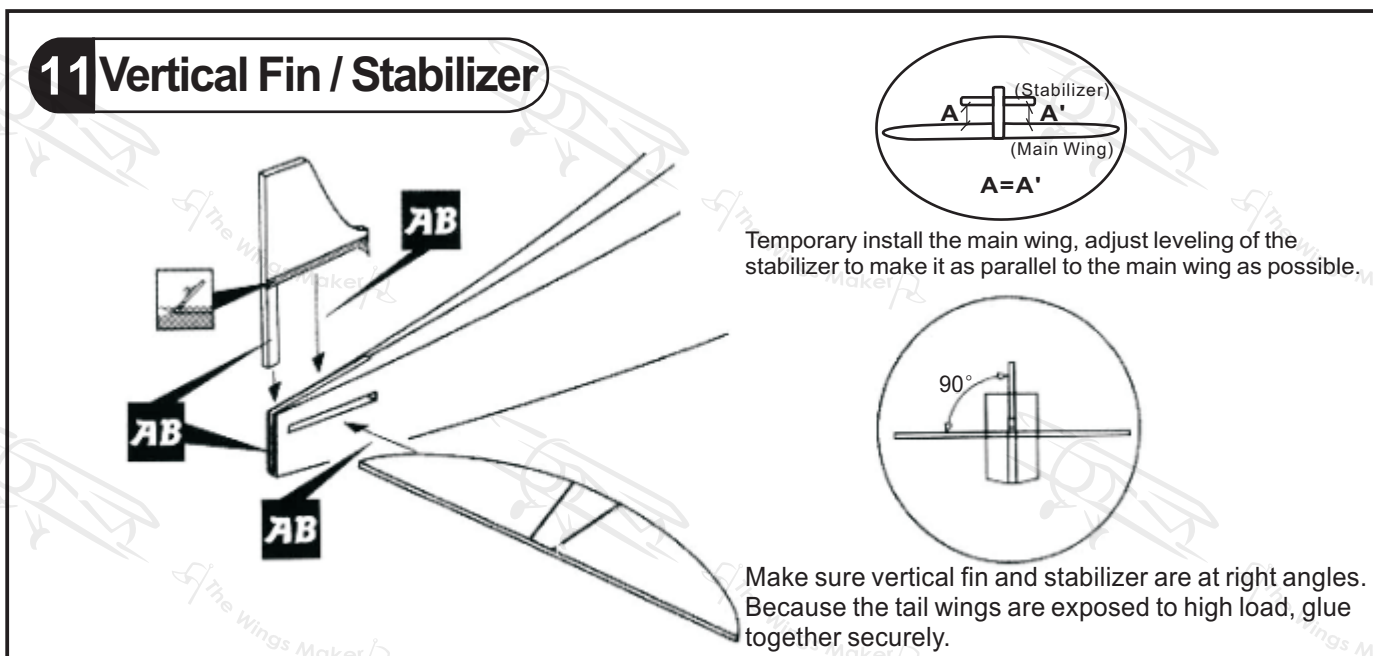
L/R



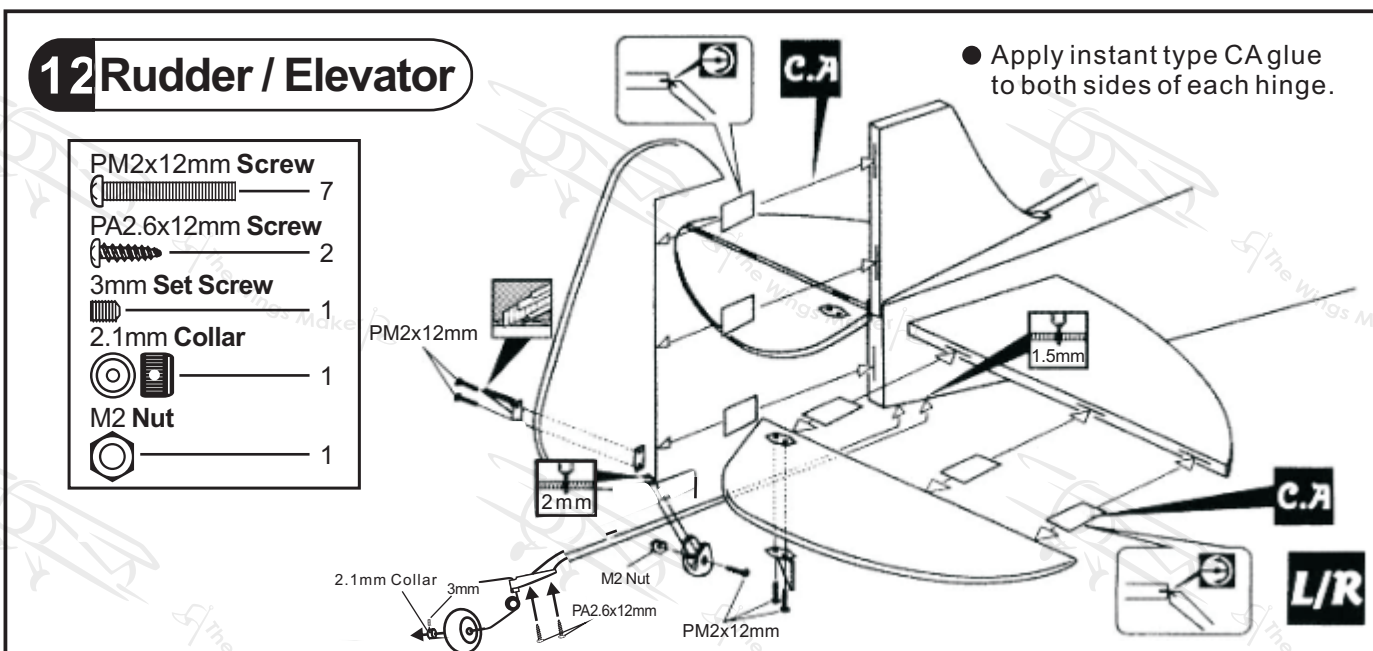
## 10 Aileron Servo



## 11 Vertical Fin / Stabilizer



## 12 Rudder / Elevator



## 13 Linkage Connector

3mm Set Screw

1

Linkage Stopper

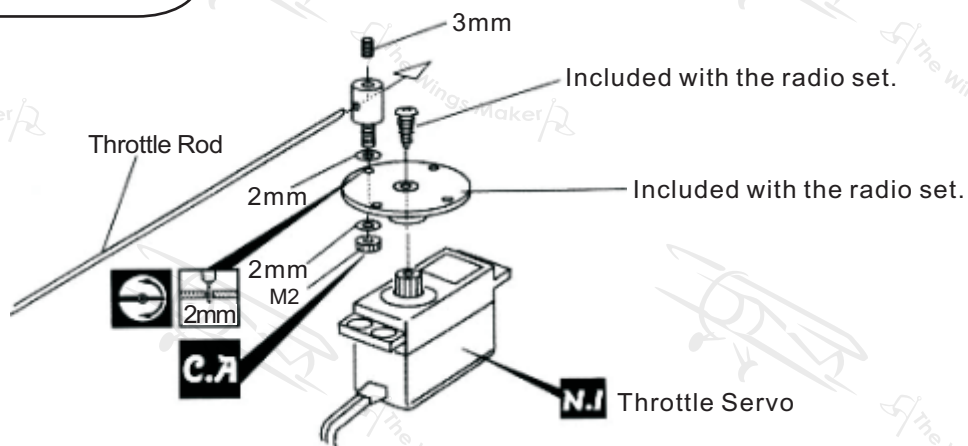
1

M2 Nut

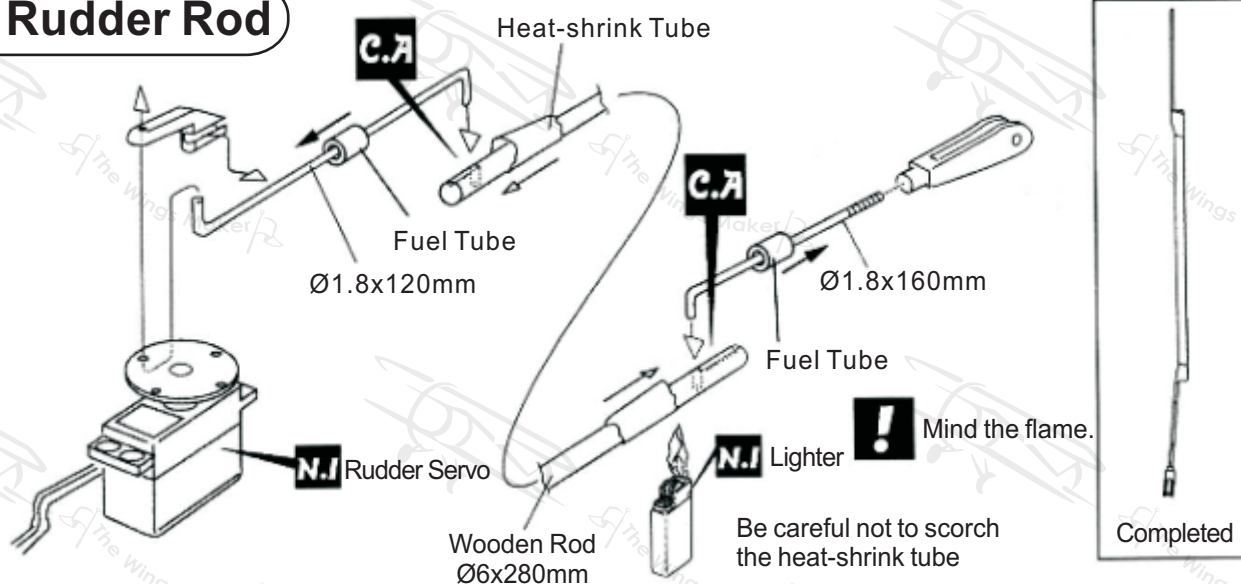
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2mm Washer

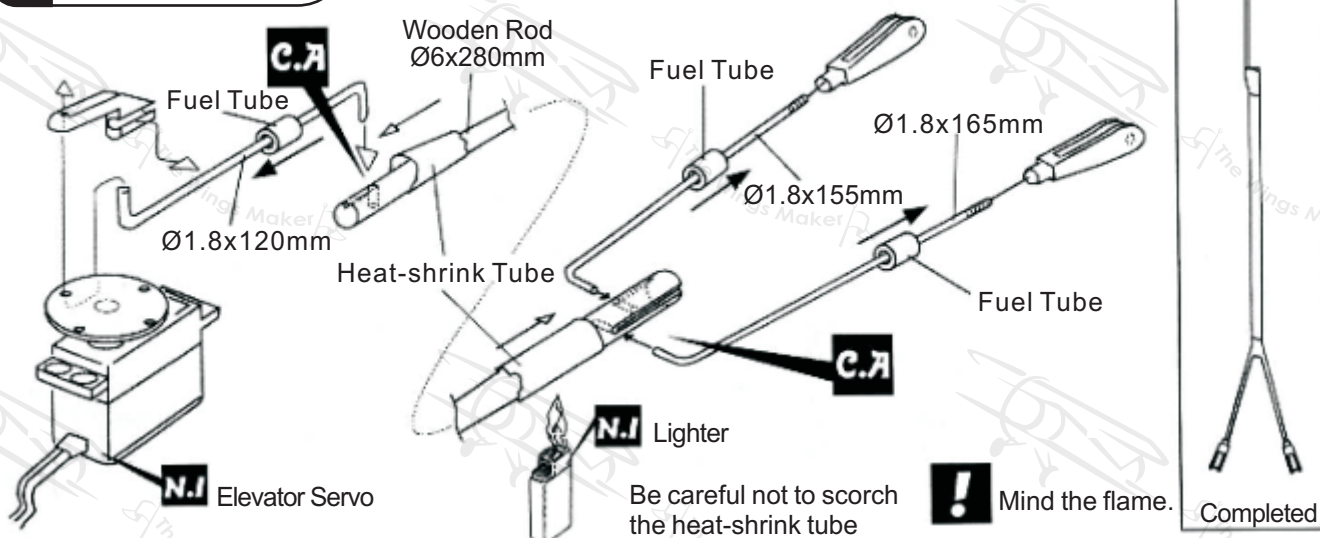
2



## 14 Rudder Rod



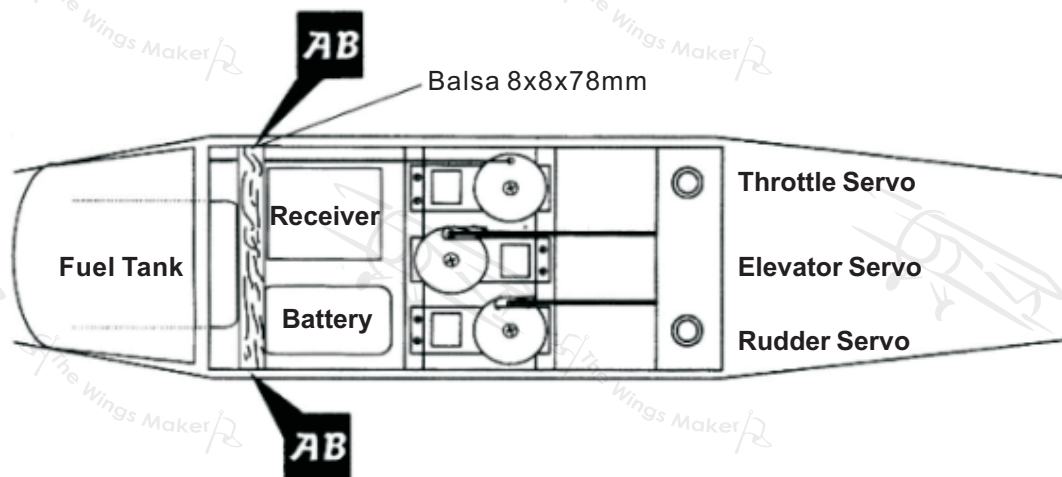
## 15 Elevator Rod



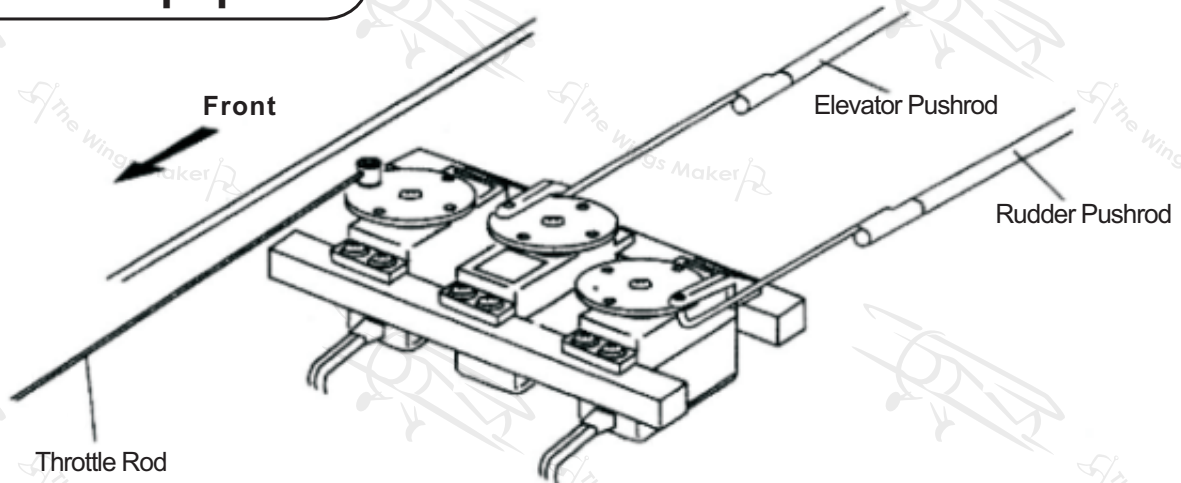


## 16 Radio Equipment

- Install and arrange the servos as shown in the diagram.

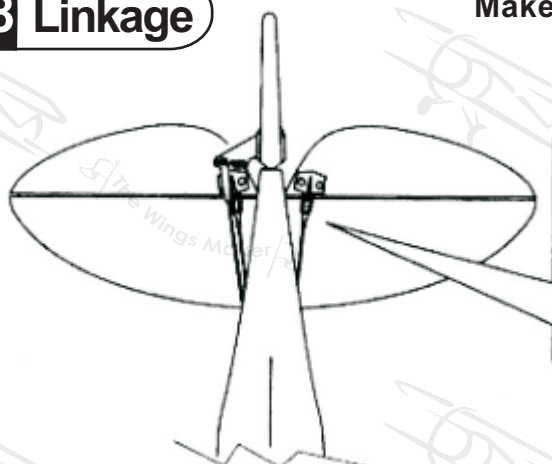


## 17 Radio Equipment

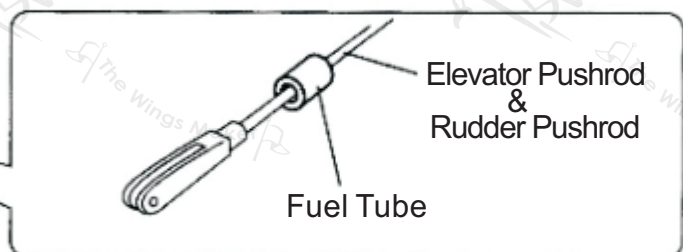


## 18 Linkage

- Make both pushrods exit as shown in the diagram.

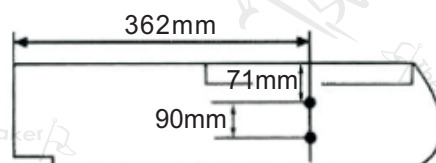


- Bottom View

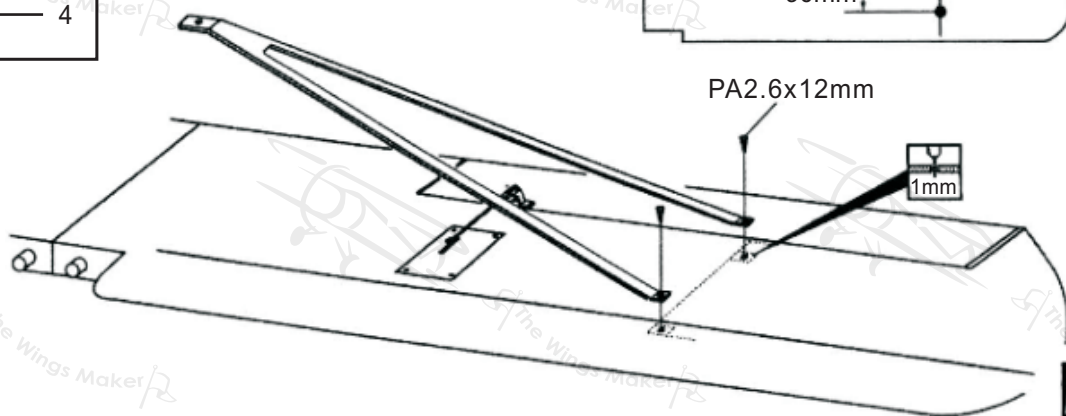


## 19 Wing Struts

PA2.6x12mm Screw



PA2.6x12mm



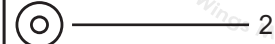
L/R

## 20 Main Wing / Wing Struts

PM3x30mm Screw



d3xD12mm Washer



3mm Washer



M3 Nut

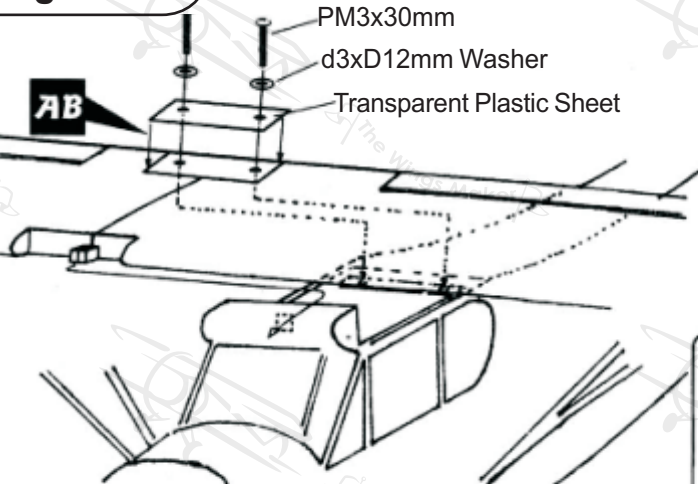


PM3x30mm

d3xD12mm Washer

Transparent Plastic Sheet

AB



PM3x10mm

M3 Nut

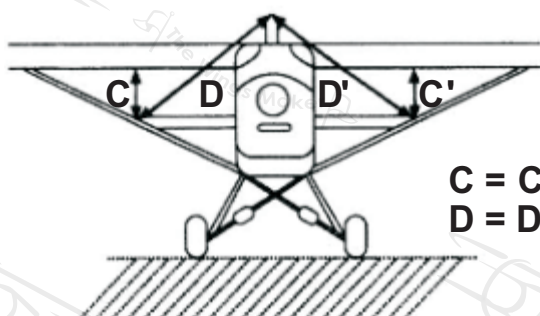
L/R

## 21 Wing Setting

In order to obtain the wing and fuselage configuration as in the diagrams, insert plates between the wing and fuselage. Don't over tighten the screws.

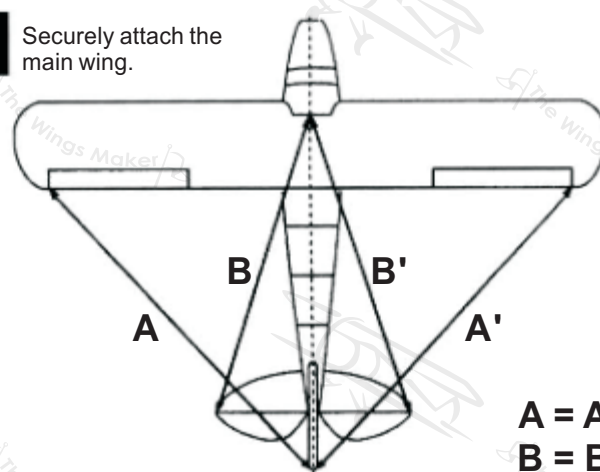


Securely attach the main wing.



$$C = C'$$

$$D = D'$$



$$A = A'$$

$$B = B'$$

## 22 Control Throws



Adjust the control throws as shown in the diagram. These throws are good for general flying. You can adjust according to your personal preference.

## 23 C.G.



The ideal C.G. position is 65mm (2.56 in) behind the leading edge measured at where the wing meets the fuselage. In order to obtain the C.G. specified, add weight to the fuselage or move the battery position. Check the C.G. before flying.

## ! 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 26** is specially designed to be powered by **2C 0.25** or **4C 0.30** 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.



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\* GA0220704 \*