

Clipped Wing Cub



0.91 cu.in. displacement 2-cycle
1.20-1.60 cu.in. displacement 4-cycle
 Radio required : 4 channels, 5 servos airplane radio

Specifications

Wing Span	88.0 in / 2240mm
Wing Area	1330 sq in / 85.8 sq dm
Flying Weight	14.0-16.0 lbs / 6400-7300g
Fuselage Length	65.0 in / 1650mm

* Specifications are subject to change without notice.*

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.



**THE WORLD MODELS
 MANUFACTURING CO. LTD.**

FACTORY PRE-FABRICATED
 ALMOST-READY-TO-FLY (ARF) SERIES
 MADE IN CHINA
www.theworldmodels.com

Clipped Wing Cub

INDEX

BEFORE YOU BEGIN	P. 1
PARTS LIST	P. 2
ASSEMBLY	P. 3 - 10
SAFETY PRECAUTIONS	P. 11

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 be difficult to extend to the good parts that are good before gluing to defective parts during assembly.
- 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.



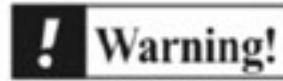
Drill holes with the specified
diameter (here: 3mm).



Must be purchased separately!



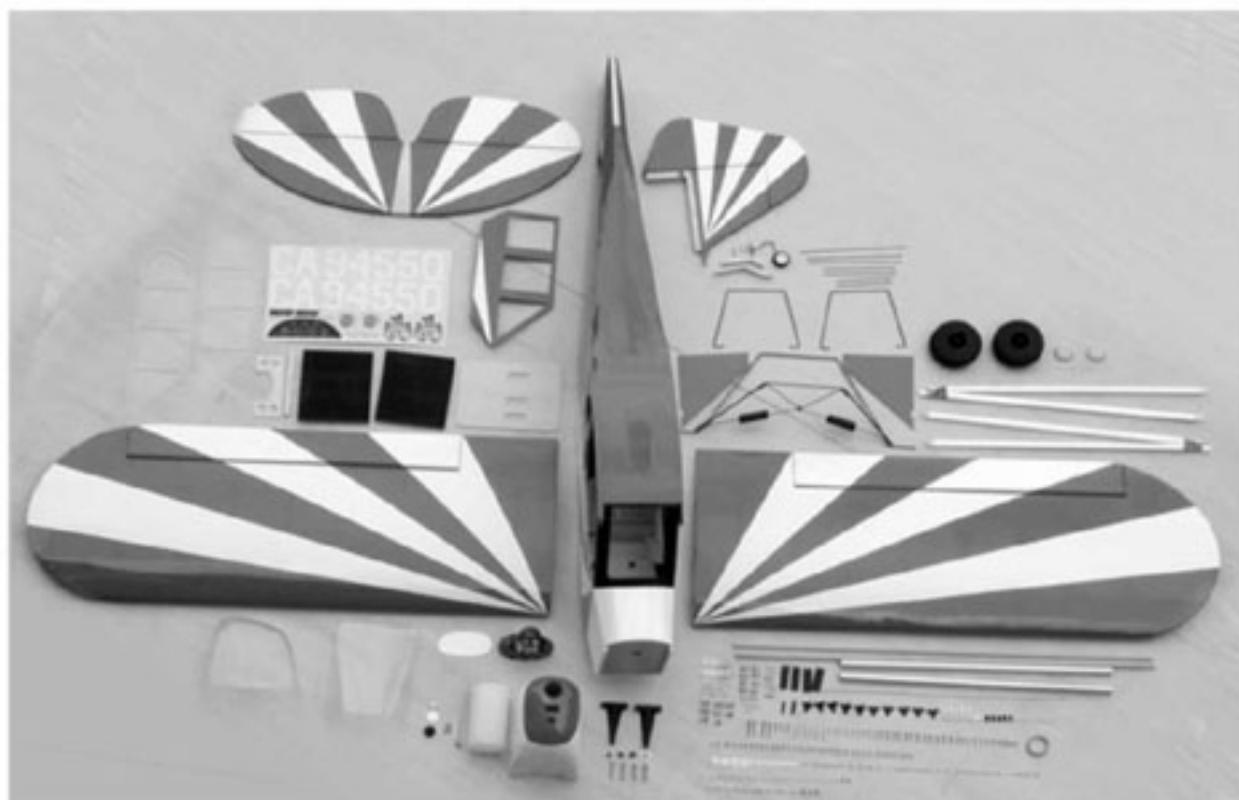
Pay close attention here!



Do not overlook this symbol!



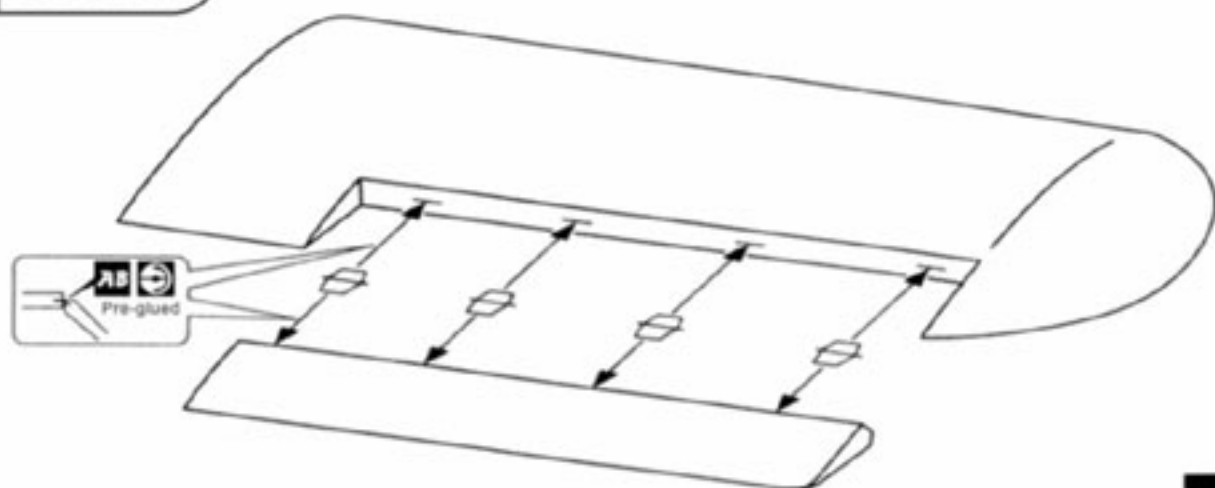
Pierce the shaded portion
covering film.



Parts List

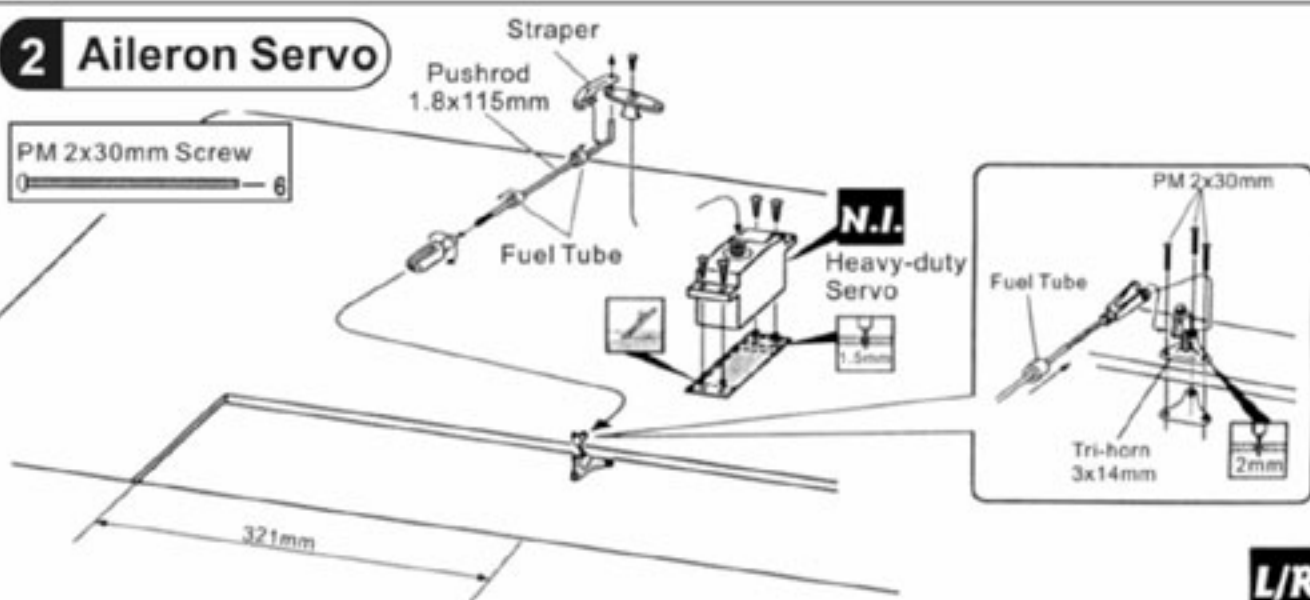
1. FUSELAGE – 1pc.
2. MAIN WING – 1 pair
3. STABILIZER & ELEVATOR –1 set
4. VERTICAL FIN & RUDDER –1 set
5. CANOPY & WINDOWS –1 set
6. COWLING –1 pc.
7. ENGINE MOUNT PL511-060 –1 set
8. MAIN LANDING GEAR –1 set
9. TAIL LANDING GEAR –1 set
10. MAIN WHEEL d4.5xD107mm –2 pcs
11. TAIL WHEEL d2xD35mm –1 pc.
12. WING JOINER Ø16x536mm –2 pcs
13. MAIN WING STRUT –1 set
14. PUSHROD:–
WOODEN ROD Ø10x830mm (For Elevator & Rudder Servo) –2 pcs
METAL ROD Ø1.8x115mm w/Threads (For Aileron Servo) –2 pcs
METAL ROD Ø1.8x150mm (For Elevator & Rudder Servo) –2 pcs
METAL ROD Ø1.8x195mm w/Threads (For Elevator Servo) –1 pc.
METAL ROD Ø1.8x200mm w/Threads (For Elevator Servo) –1 pc.
METAL ROD Ø1.8x220mm w/Threads (For Rudder Servo) –1 pc.
15. THROTTLE PUSHWIRE Ø1.2x480mm (w/Plastic tube) –1 set
16. WOODEN PARTS:–
COCKPIT BASE PANEL 3x145x165mm –2 pcs
PLYWOOD 3x145x171mm (Main Landing Gear Cover) –2 pcs
SERVO TRAY 3x153x210mm –1 pc.
PLYWOOD 3x56x140mm (F5B) (For Fixing Fuel Tank) –1 pc.
17. PASTIC PARTS :–
CLEVIS –5 pcs
TRI-HORN 3x22mm –5 sets
SILICON GROMMET d1.5xD6.5mm (For Cowling & Front Window) –8 pcs
18. METAL PARTS:–
LINKAGE CONNECTOR 2.1mm –3 sets
BLIND NUT 6mm –4 pcs
COLLAR 2.1mm w/set screw –8 sets
COLLAR 2.6mm w/set screw –3 sets
COLLAR 4.6mm w/set screw –4 sets
NYLON NUT 3mm –2 pcs
NUT 3mm –15 pcs
NUT 4mm –8 pcs
PLATE (For Main Landing Gear)A –6 pcs
PLATE (For Main Landing Gear)B –8 pcs
PLATE (For Stays) –6 pcs
PLATE (For Stays on Tail Fuselage bottom) –1 pc.
SCREW PA 1.7x8mm –6 pcs
SCREW PA 3x8mm –2 pcs
SCREW PA 3x12mm –14 pcs
SCREW PA 3x18mm –2 pcs
SCREW PM 2x16mm –9 pcs
SCREW PM 2x30mm –6 pcs
SCREW PM 3x8mm –2 pcs
SCREW PM 3x13mm –10 pcs
SCREW PM 3x15mm –12 pcs
SCREW PM 3x18mm –3 pcs
SCREW PM 4x30mm –4 pcs
SCREW PM 6x30mm –4 pcs
SCREW PWA2x12mm –4 pcs
SCREW PWA2.3x12mm –14 pcs
SCREW PWA2.6x12mm –4 pcs
SPRING Ø5x22mm –2 pcs
STAYS Ø0.8x1300mm –1 pc.
WASHER 3mm –48 pcs
WASHER 4mm –8 pcs
WASHER 6mm –4 pcs
19. FUEL TUBE Ø6x6mm –7 pcs
HEAT-SHRINK TUBE Ø10x50mm –4 pcs
20. PILOT (#PC001102A/B) –1 pc.
COPPER CLIPPER (For Main Landing Cover) –8 pcs
21. FUEL TANK 450cc –1 set
22. DECALS –1 set

1 Aileron



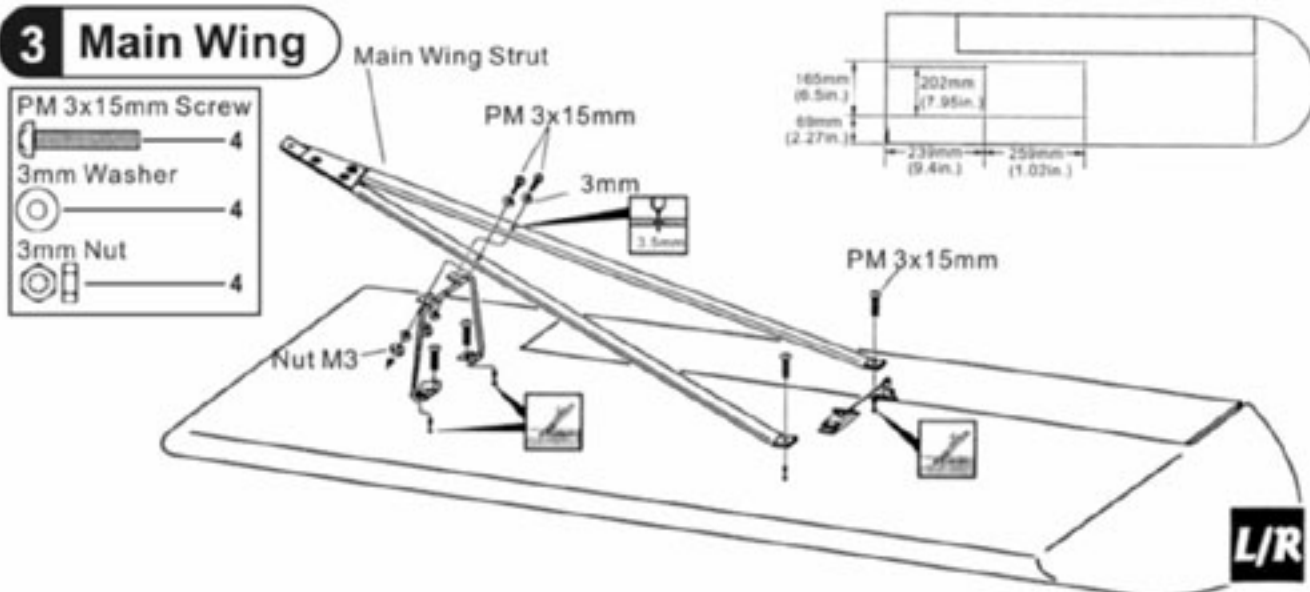
L/R

2 Aileron Servo



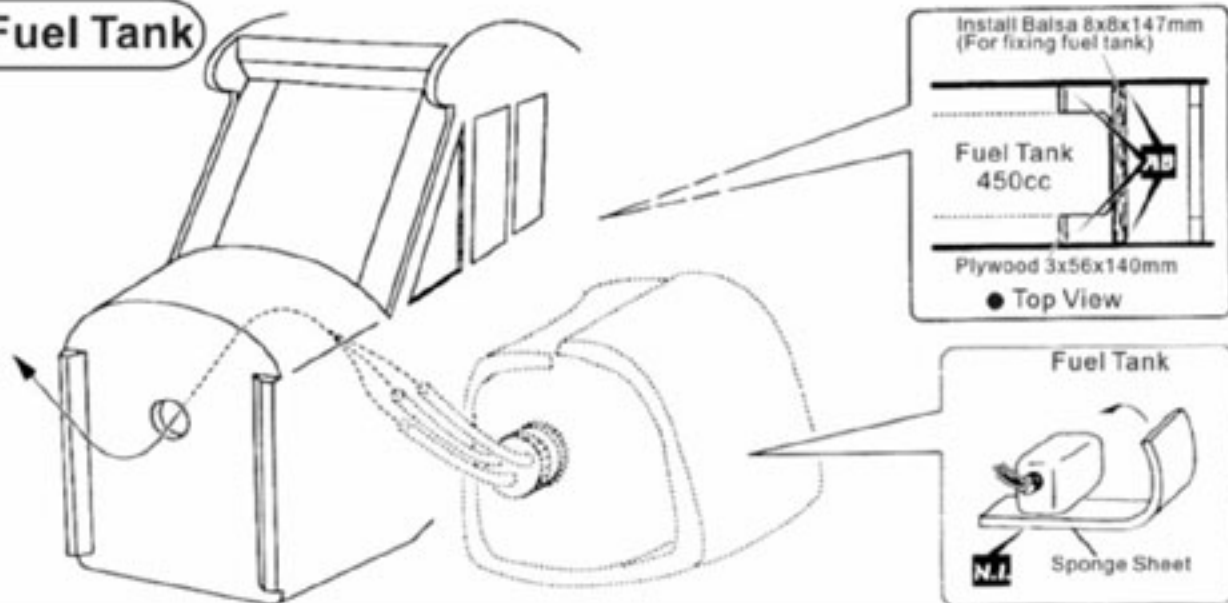
L/R

3 Main Wing



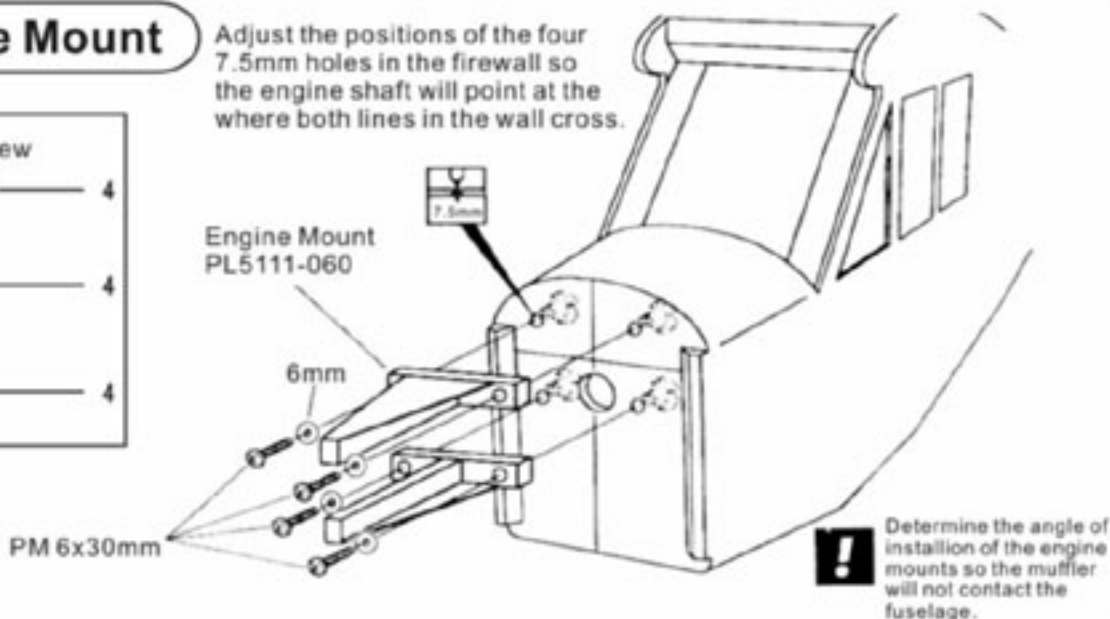
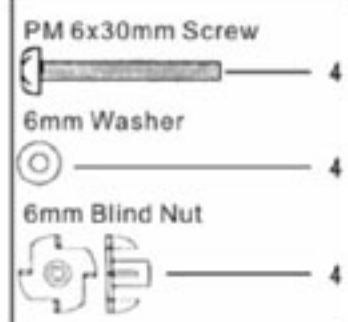
L/R

4 Fuel Tank

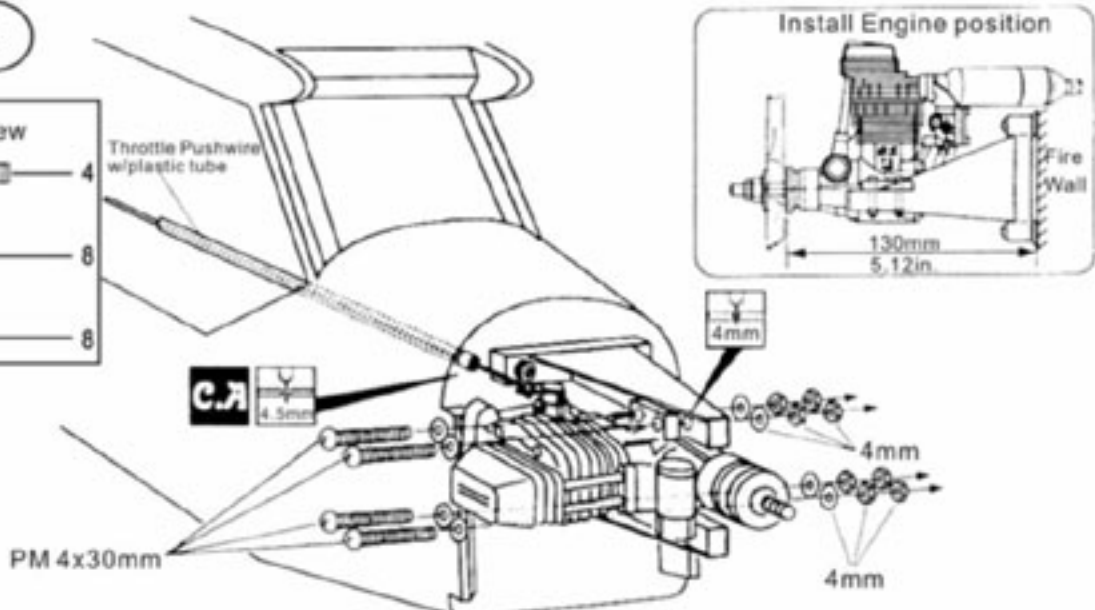
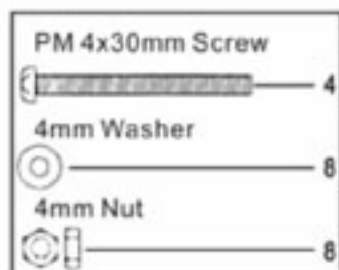


5 Engine Mount

Adjust the positions of the four 7.5mm holes in the firewall so the engine shaft will point at the where both lines in the wall cross.



6 Engine



7 Cowling

PWA2.6x12mm Screw



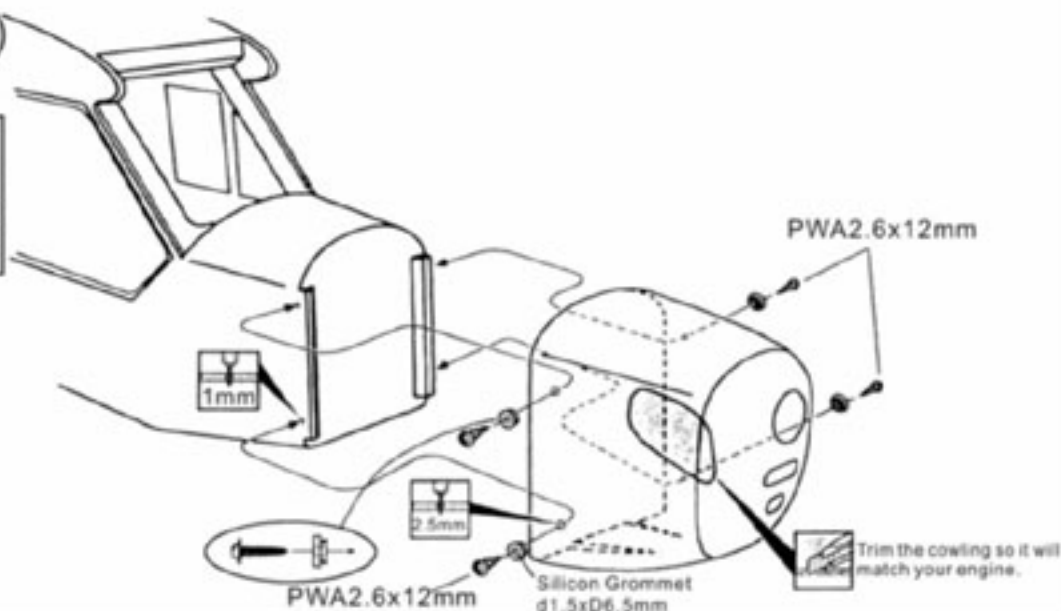
4

d1.5xD6.5mm Silicon Grommet



4

L/R



8 Main Wing Plate

PA 3x12mm Screw



2

PM 3x13mm Screw

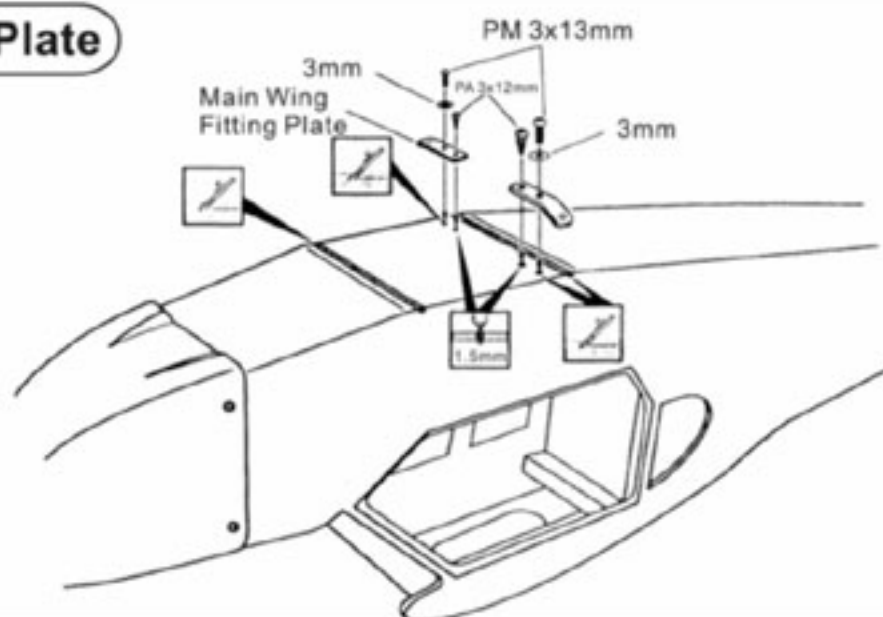


2

3mm Washer



2



9 Main Wing Plate

PA 3x12mm Screw

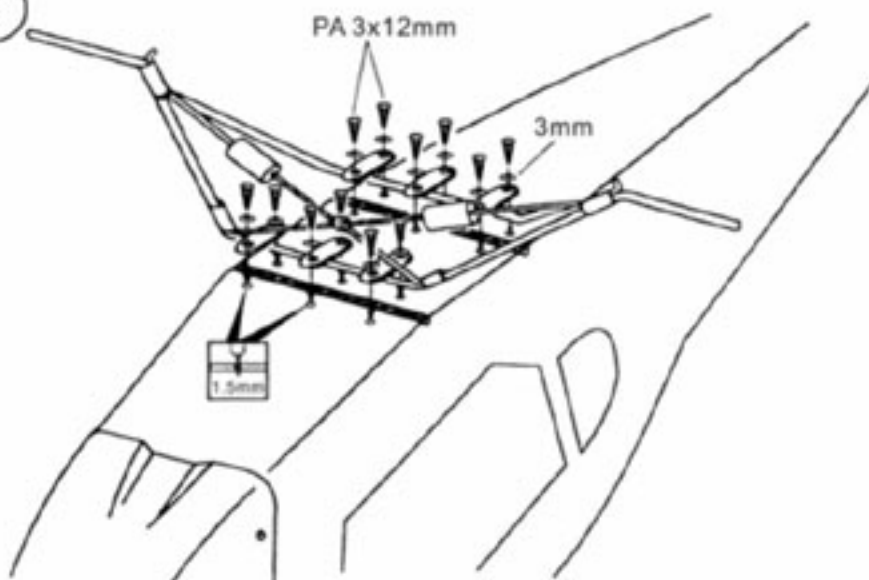


12

3mm Washer



12



10 Landing Gear

PA 1.7x8mm Screw

PM 3x13mm Screw

3mm Washer

3mm Nut

3mm Set Screw

4.6mm Wheel Collar

4.6mm Wheel Collar

4.6mm Wheel Collar

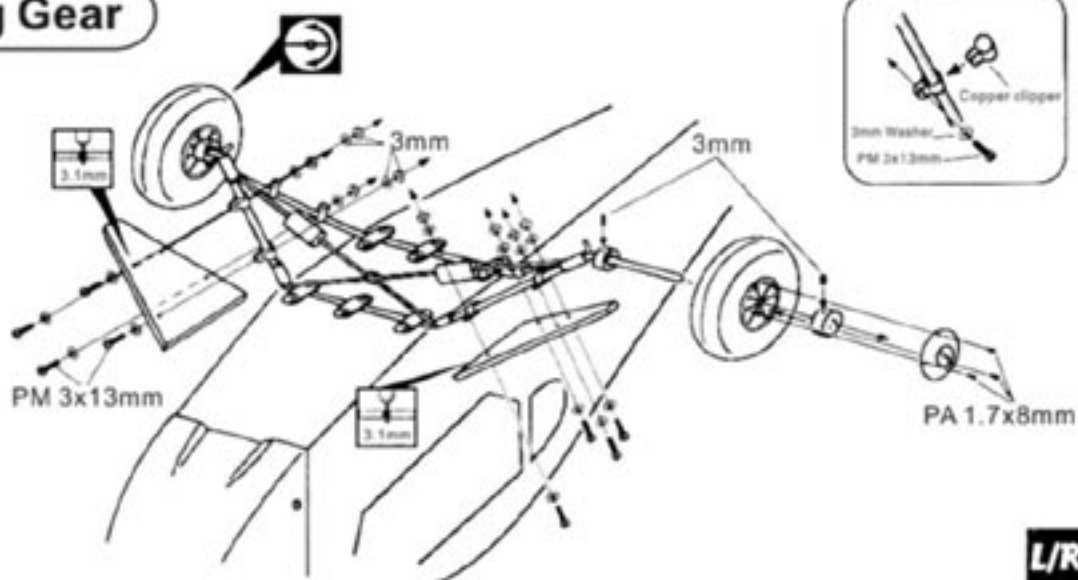
4.6mm Wheel Collar

4.6mm Wheel Collar

4.6mm Wheel Collar

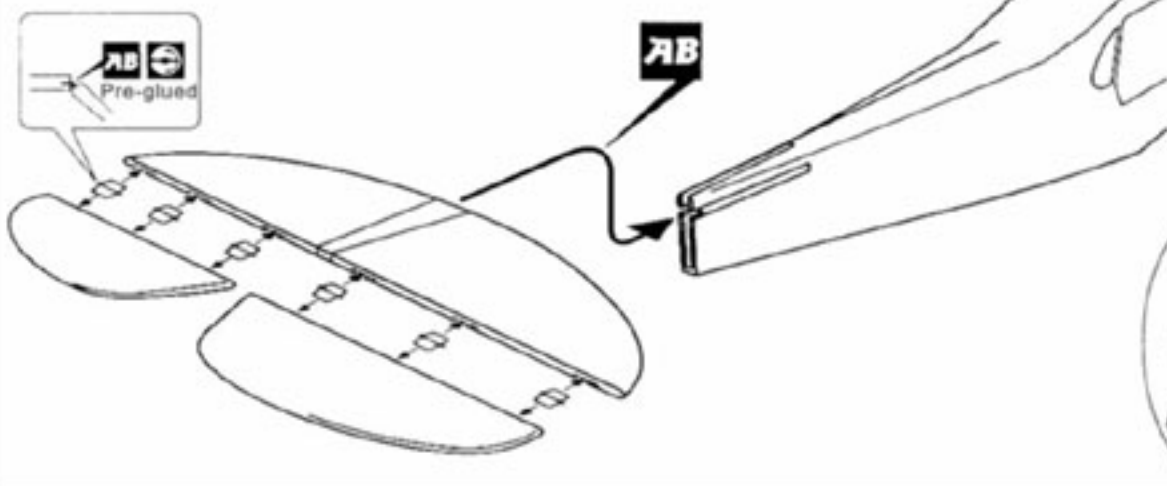
4.6mm Wheel Collar

4.6mm Wheel Collar

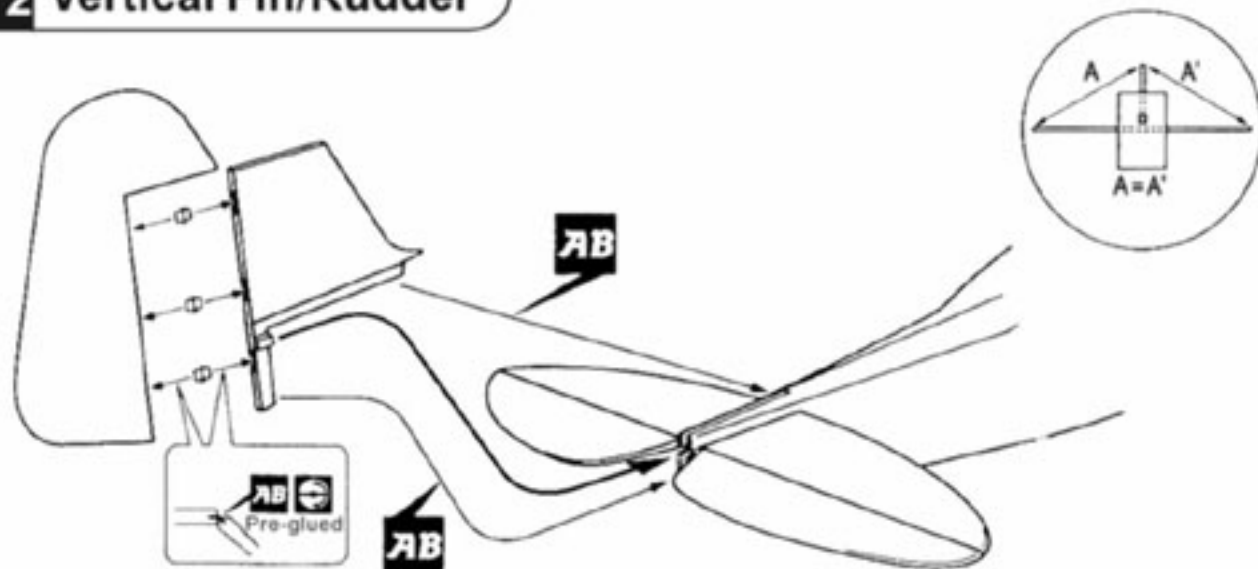


L/R

11 Stabilizer



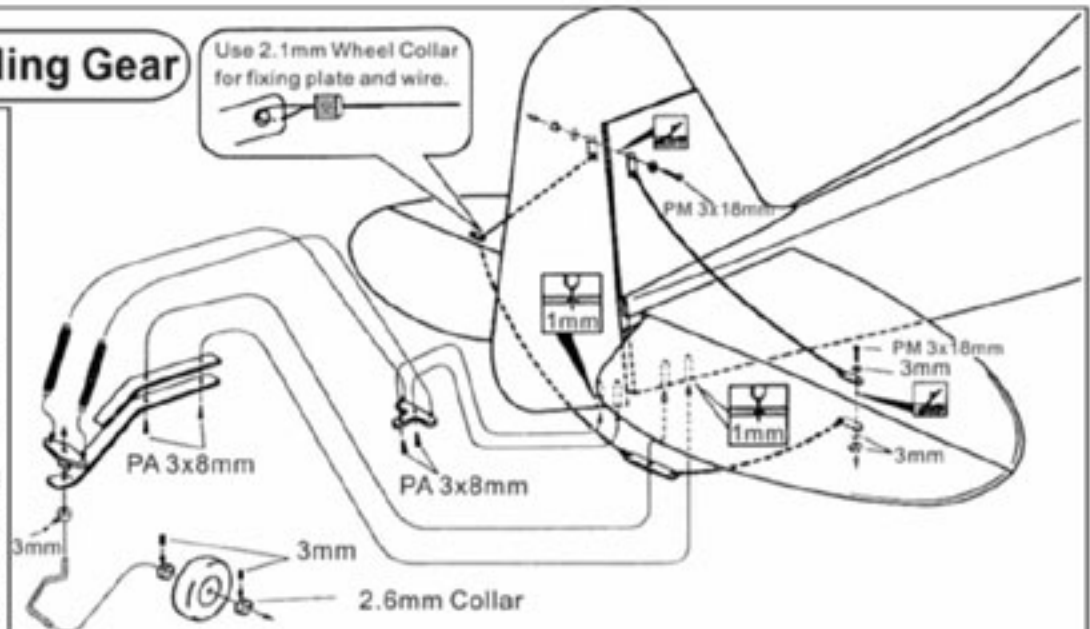
12 Vertical Fin/Rudder



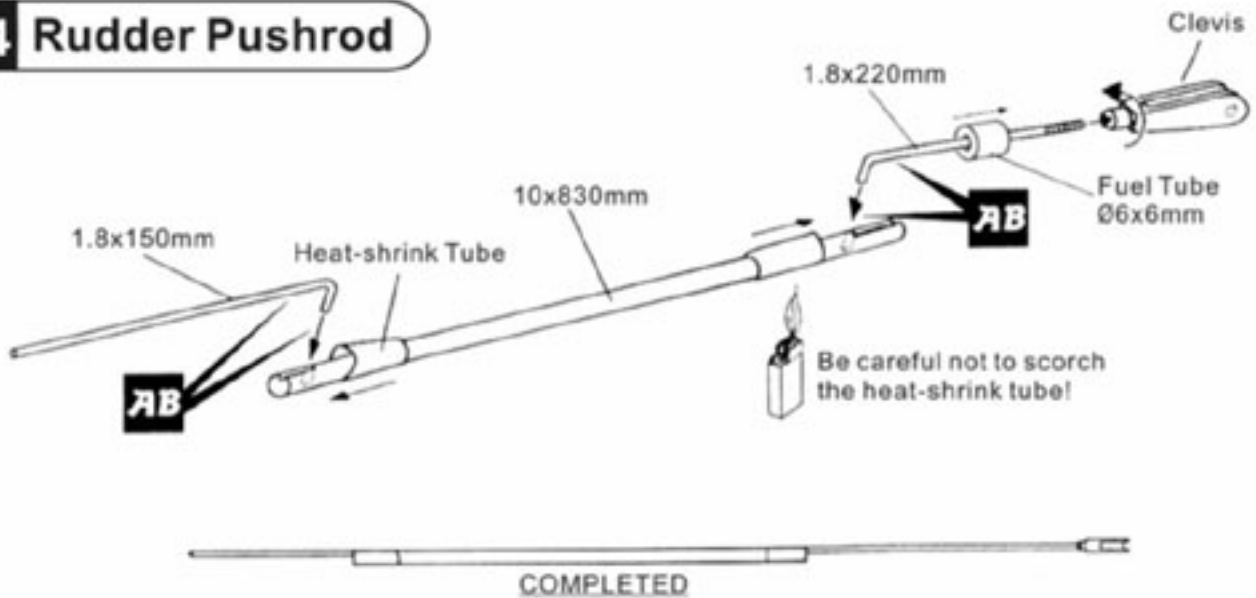
13 Tail Landing Gear

- PA 3x8mm Screw — 2
- PA 3x18mm Screw — 2
- PM 3x18mm Screw — 3
- 3mm Washer — 6
- 3mm Nut — 3
- 3mm Set Screw — 11
- 2.6mm Wheel Collar — 3
- 2.1mm Wheel Collar — 8

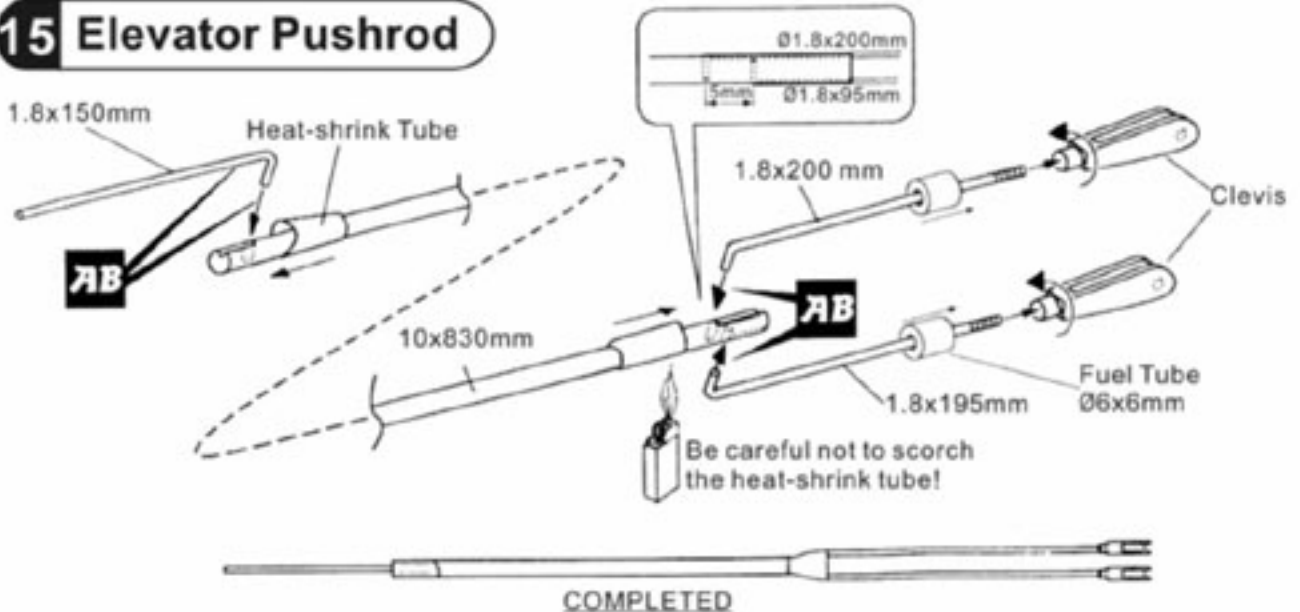
Use 2.1mm Wheel Collar for fixing plate and wire.



14 Rudder Pushrod



15 Elevator Pushrod



16 Servo Set

Linkage Connector

3 x 3mm Set Screw

3

Linkage Connector

3

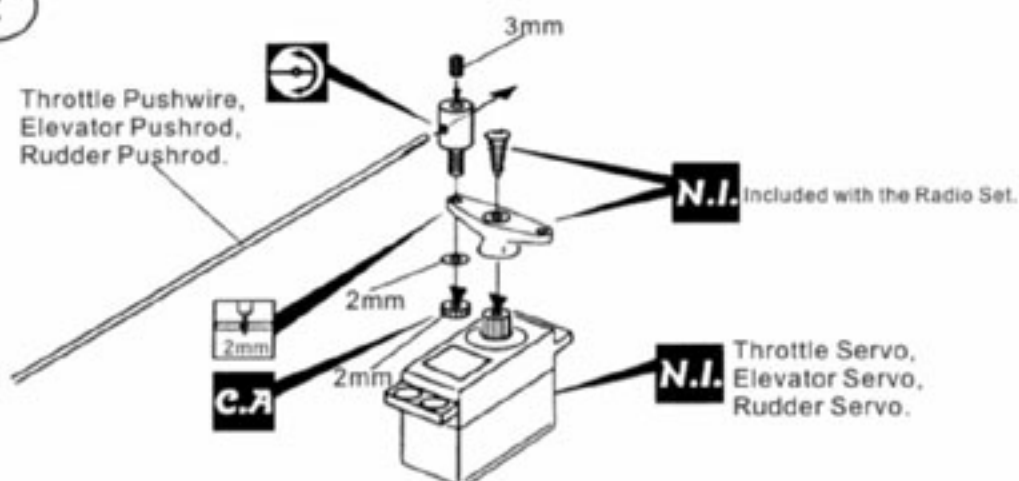
2mm Nut

3

2mm Washer

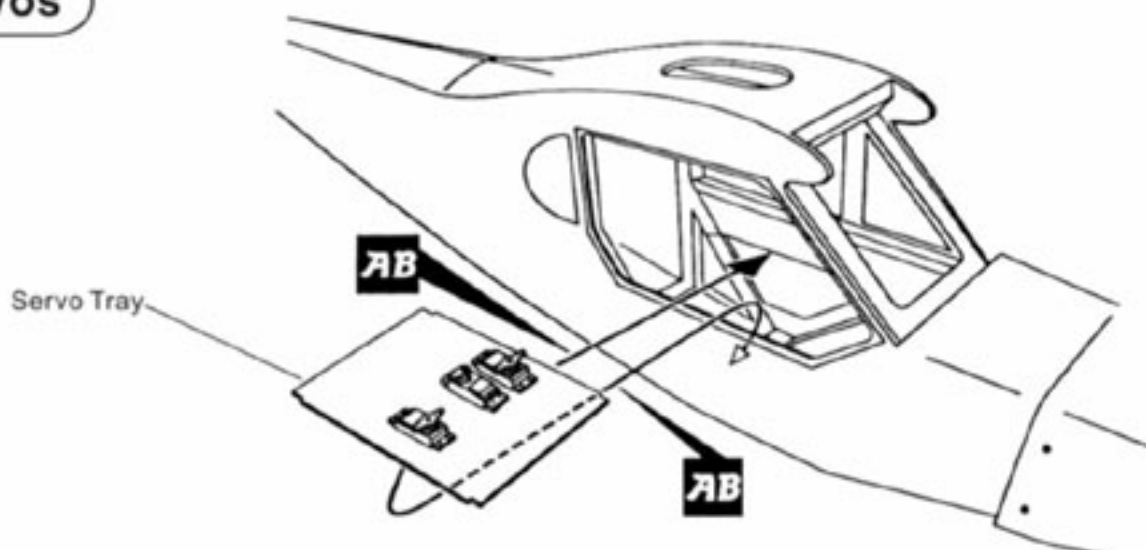
3

Throttle Pushwire,
Elevator Pushrod,
Rudder Pushrod.



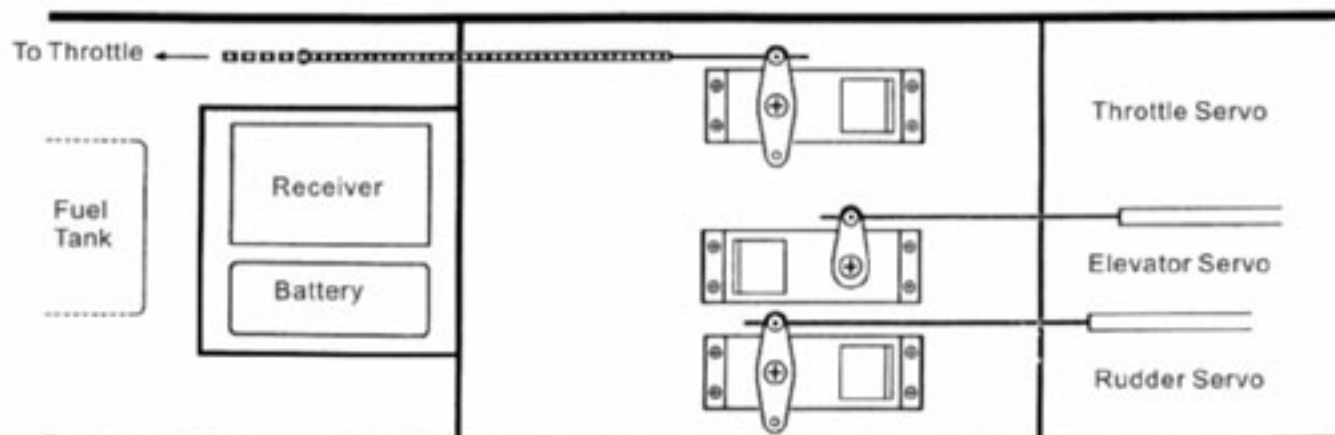
! Please refer to attached sheet for linkage connector installation.

17 Servos



18 Radio Equipment

● Install and arrange the servo as shown in the diagram.



● Top View

19 Linkage

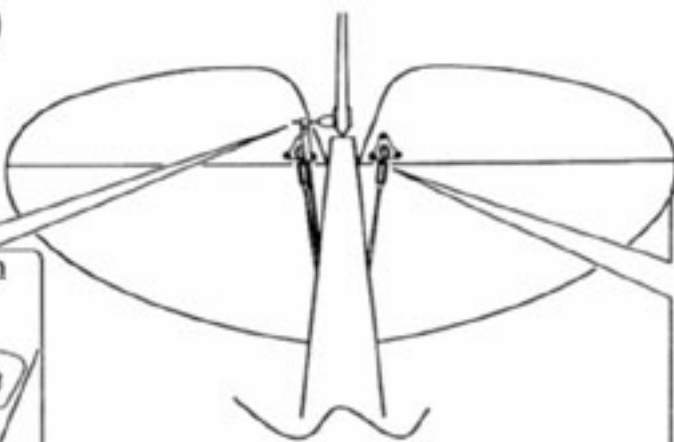
PM 2x16mm Screw
9

Rudder Tri-horn

Fuel Tube



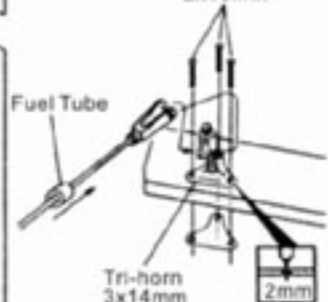
Tri-horn
3x14mm



Elevator Tri-horn

2x16mm

Fuel Tube



Tri-horn
3x14mm

● Bottom View

20 Windows

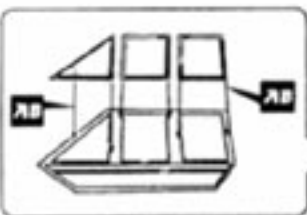
PWA2x12mm Screw
4

PWA2x12mm



Pilot

Cockpit Block



21 Windows

PWA2.3x12mm Screw

10

d1.5xD6.5mm Silicon Grommet

4

Peel off shaded portion covering film.

PWA2.3x12mm

Silicon Grommet
d1.5xD6.5mm

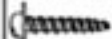
2.5mm

L/R

PWA2.3x12mm

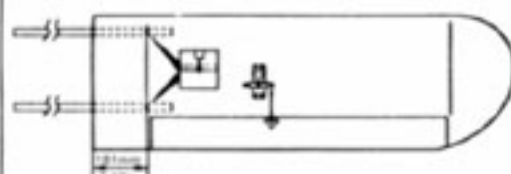
22 Main Wing

PWA2.3x12mm Screw

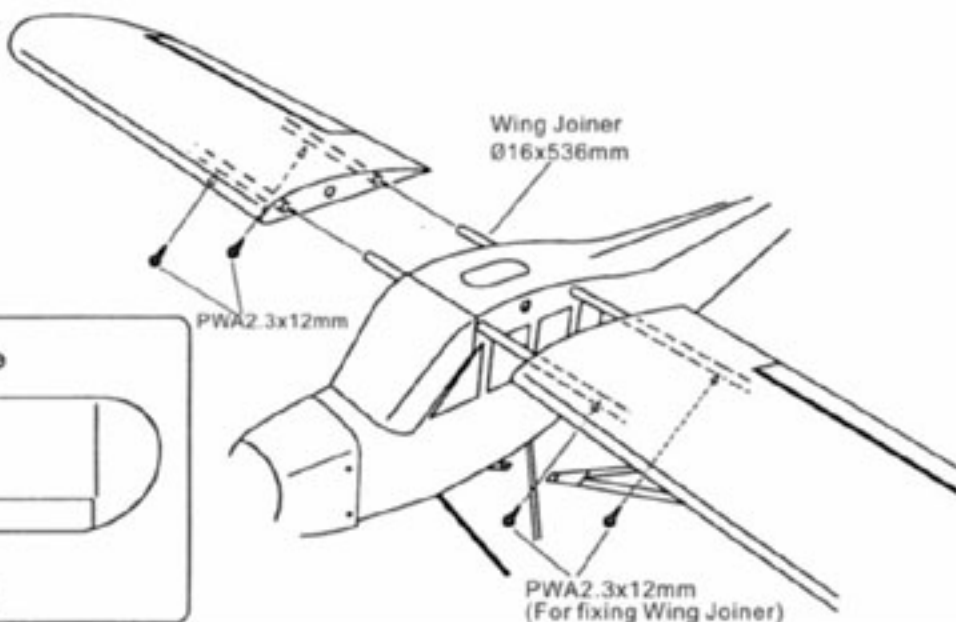


4

Left Hand Side



● Bottom View



23 Main Wing

PM 3x8mm Screw



2

3mm Washer

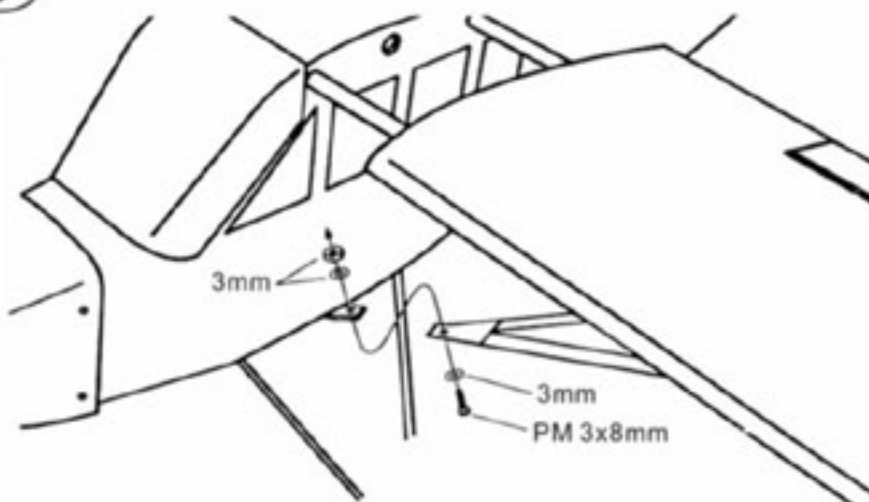


2

3mm Nylon Nut

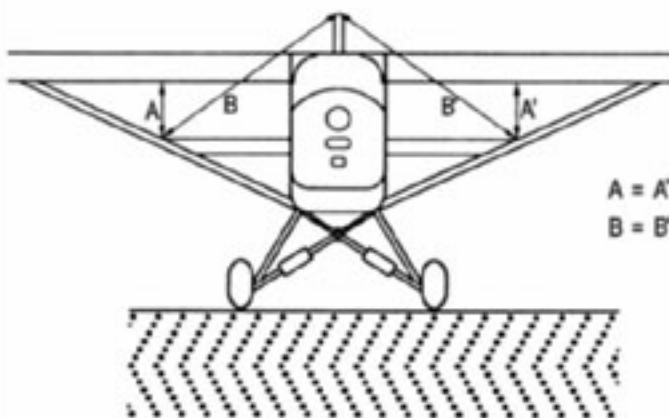


2

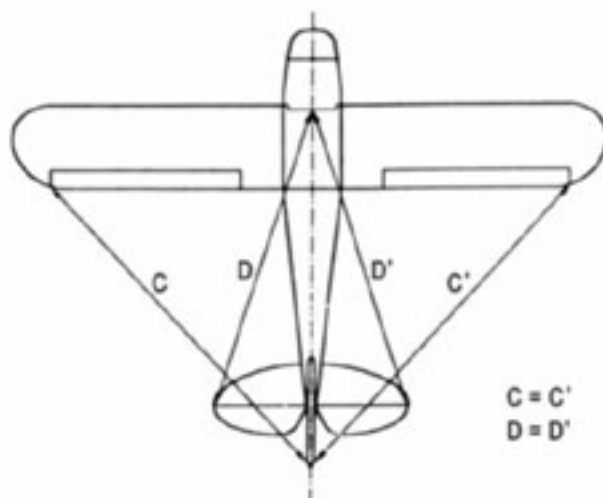


L/R

24 Wing Setting



A = A'
B = B'

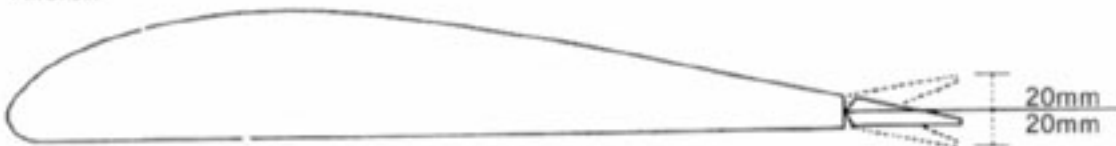


C = C'
D = D'

25 Control Throws



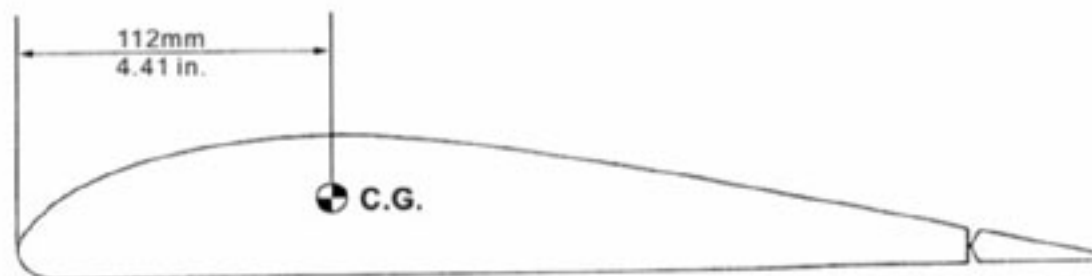
Aileron



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

26 C.G.

The ideal C.G. position is 112mm (4.41in) 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.
- #*Clipped Wing Cub* is specially designed to be powered by 2C 0.90 or 4C 1.20-1.60 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.