

EXTRA 300 - 120S



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

Specifications

Wing Span	69.0in / 1745mm
Wing Area	845 sq in / 54.5 sq dm
Flying Weight	10.0 lbs / 4546g
Fuselage Length	61.4 in / 1560mm

* 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.



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EXTRA 300 - 120S

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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!



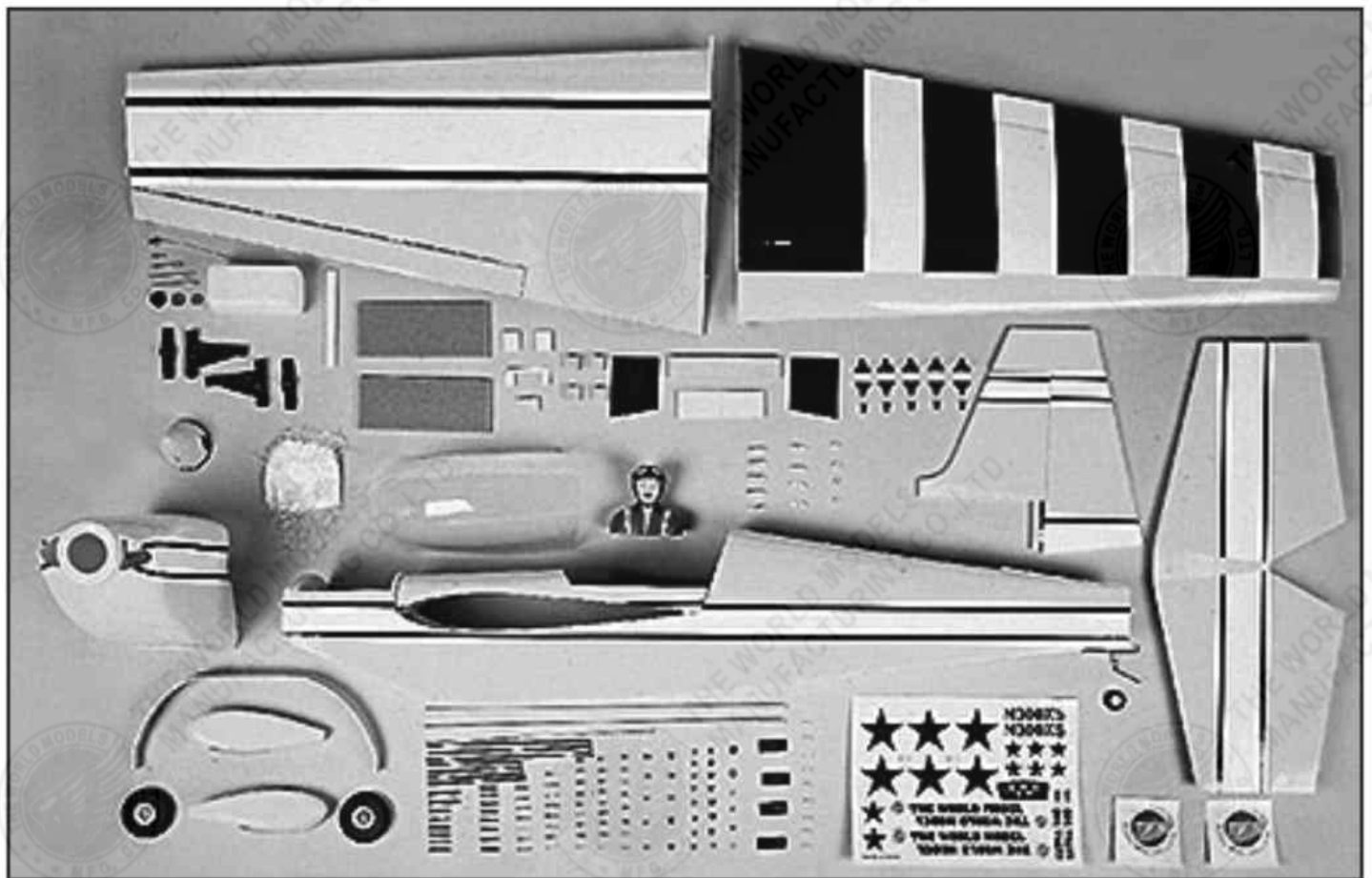
Pay close attention here!



Do not overlook this symbol!



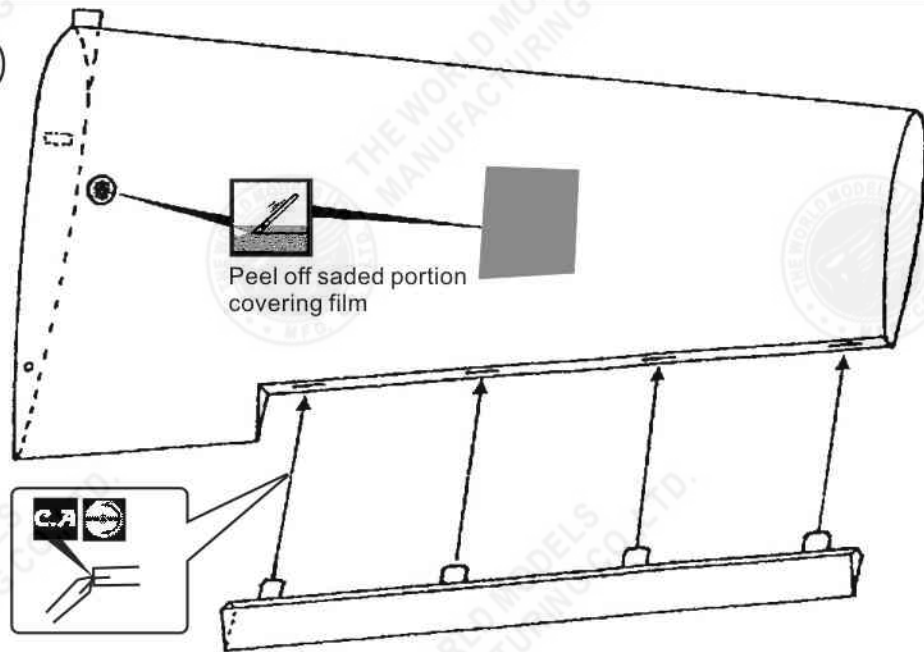
Pierce the shaded portion
covering film.



Parts List

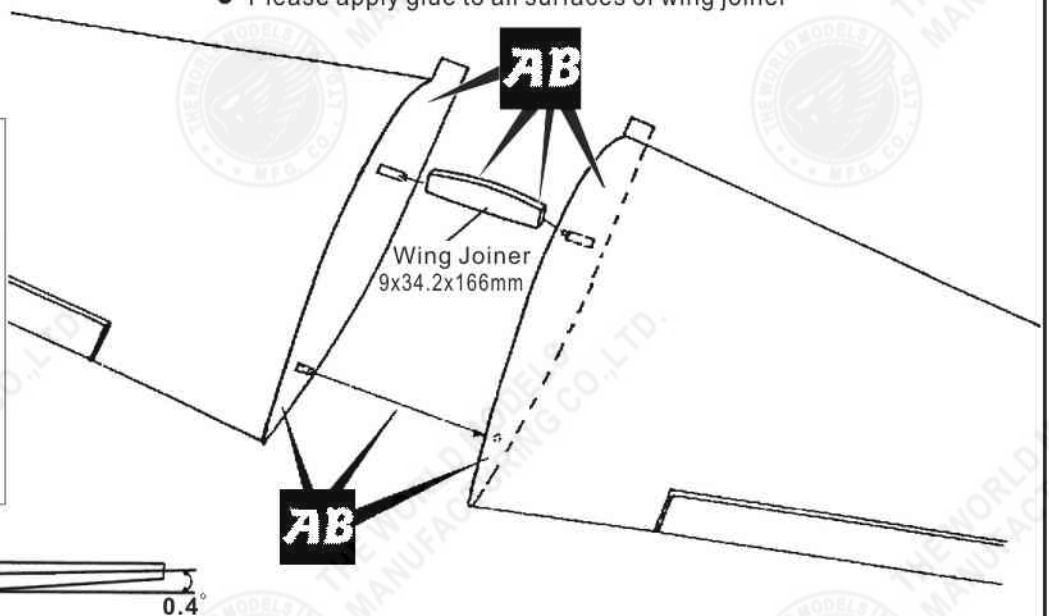
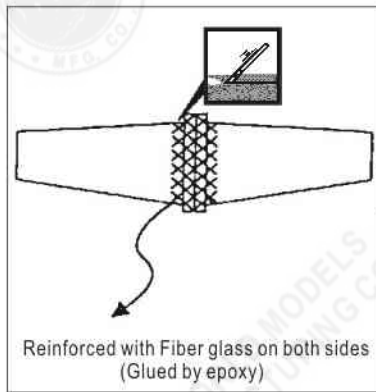
1. FUSELAGE – 1 pc
2. MAIN WING – 1 pair
3. STABILIZER & ELEVATOR – 1 set
4. VERTICAL FIN & RUDDER – 1 set
5. CANOPY – 1 pc
6. PILOT (#PC001102) – 1 pc
7. COWLING – 1 pc.
TRANSPARENT DUMMY COWLING – 1 pc
8. SPINNER Ø76mm – 1 pc
9. ENGINE MOUNT PL5000-070 – 1 set
10. FUEL TANK 450cc – 1 set
11. SPONGE 10x80x200mm (For Radio Equipment) – 2 pcs
12. MAIN LANDING GEAR (4x45x560mm) – 1 pc
13. TAIL LANDING GEAR – 1 set
14. MAIN WHEEL COVER – 1 pair
15. MAIN WHEEL Ø76mm – 2 pcs
16. TAIL WHEEL Ø30mm – 1 pc
17. PUSHROD:-
WOODEN ROD Ø8x550mm (For Elevator & Rudder Servo) – 2 pcs
METAL ROD Ø2x145mm (For Elevator & Rudder Servo) – 2 pcs
METAL ROD Ø2x150mm w/Threads (For Elevator & Rudder Servo) – 2 pcs
METAL ROD Ø2x250mm w/Threads
(For Elevator & Rudder Servo) – 2 pcs
METAL ROD Ø2x255mm w/Threads (For Elevator Servo) – 1 pc
18. THROTTLE PUSHWIRE Ø1.2x350mm
w/Plastic tube d2xD3x200mm – 1 set
19. WOODEN PARTS:-
BALSA 8x18x21mm (For Aileron Servo) – 4 pcs
COCKPIT – 1 set
- PLYWOOD 2x70x90mm (Aileron Servo Cover) – 2 pcs
PLYWOOD 3x15x145mm (For Fixing Fuel Tank) – 1 pc
PLYWOOD 3x25x30mm (For Landing Gear Cover) – 2 pcs
PLYWOOD 3x40x130mm (Wing Protection) – 1 pc
THROTTLE SERVO TRAY – 1 set
WOODEN 9x34.2x166mm (Wing Joiner) – 1 pc
20. PLASTIC PARTS:-
Clevis – 5pcs
COLLAR 5.1mm – 4 pcs
FIBER GLASS – 2 pcs
STRAPER – 4 pcs
TRI-HORN 3x9mm(L) – 2 sets
TRI-HORN 3x14mm(L) – 3 sets
21. METAL PARTS:-
ADJUSTER 2.1mm – 1 set
COLLAR 2.1mm w/set screw – 1 set
COLLAR 5.1mm w/set screw – 2 sets
NUT 4mm – 8 pcs
NUT 5mm – 2 pcs
SCREW PA3x8mm – 6 pcs
SCREW PA3x10mm – 2 pcs
SCREW PM2x16mm – 3 pcs
SCREW PM2x20mm – 12 pcs
SCREW PM4x25mm – 8 pcs
SCREW PM4x30mm – 4 pcs
SCREW PM5x45mm – 2 pcs
SCREW PM4x35mm – 2 pcs
SCREW PWA2.6x12mm – 8 pcs
SCREW PWA2.3x8mm – 4 pcs
SCREW PWA2.3x12mm – 10 pcs
WASHER 4mm – 10 pcs
WASHER 5mm – 2 pcs
WASHER d3xD7mm – 4 pcs
22. FUEL TUBE Ø6x5mm – 9 pcs
HEAT-SHRINK TUBE Ø8x40mm – 4 pcs
23. FUSELAGE STICKER & LOGO – 1set
P/N:ST200 005
24. COVERED WITH HAND IRON-ON COVERING FILM – 2pcs

1 Main Wing



2 Main Wing

• Please apply glue to all surfaces of wing joiner



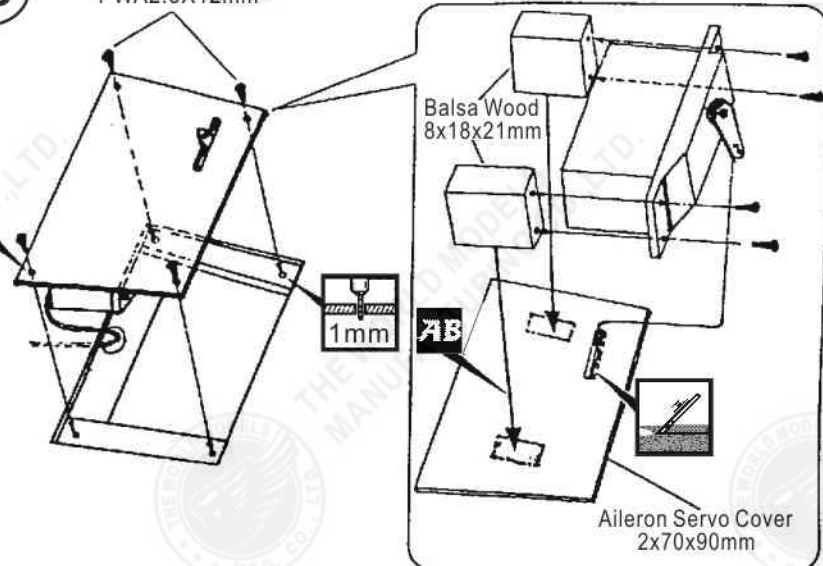
0.4° 0.4°

3 Aileron Servo

PWA2.3X 12mm Screw



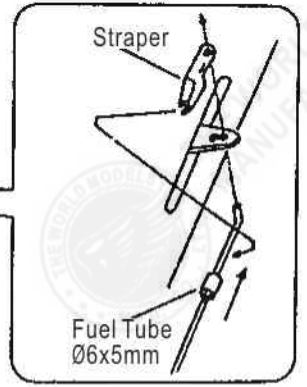
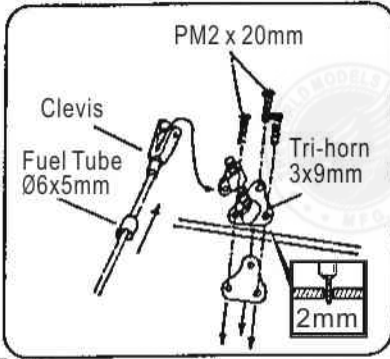
PWA2.3X12mm



L/R

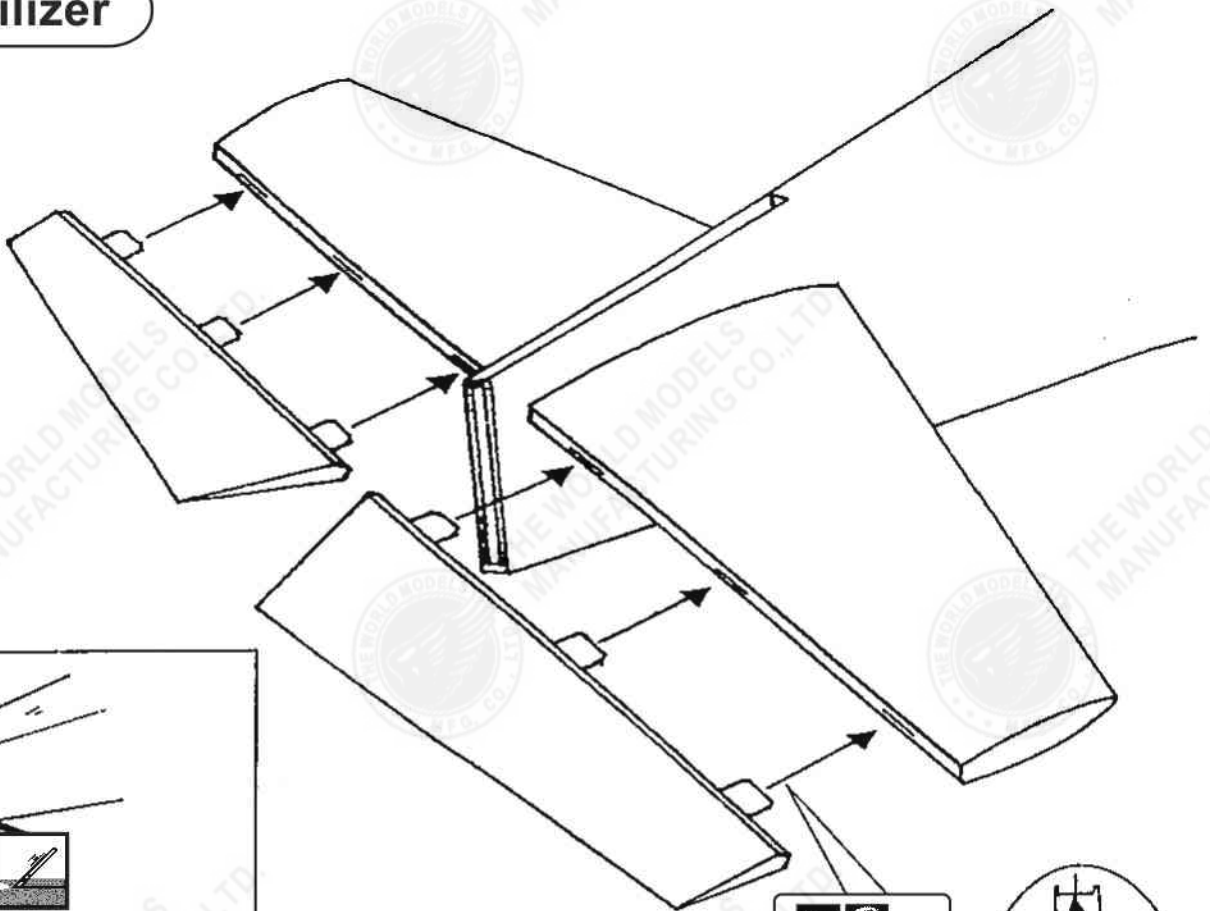
4 Aileron Servo

PM2 x 20mm Screw 6

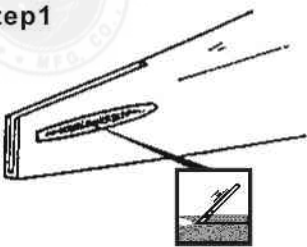


L/R

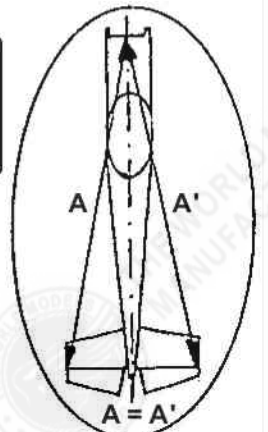
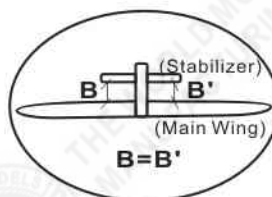
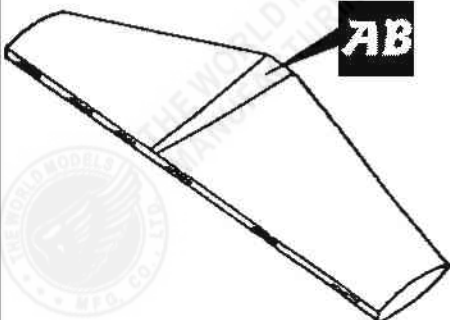
5 Stabilizer



Step1



Step2



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

PA3 x 8mm Screw

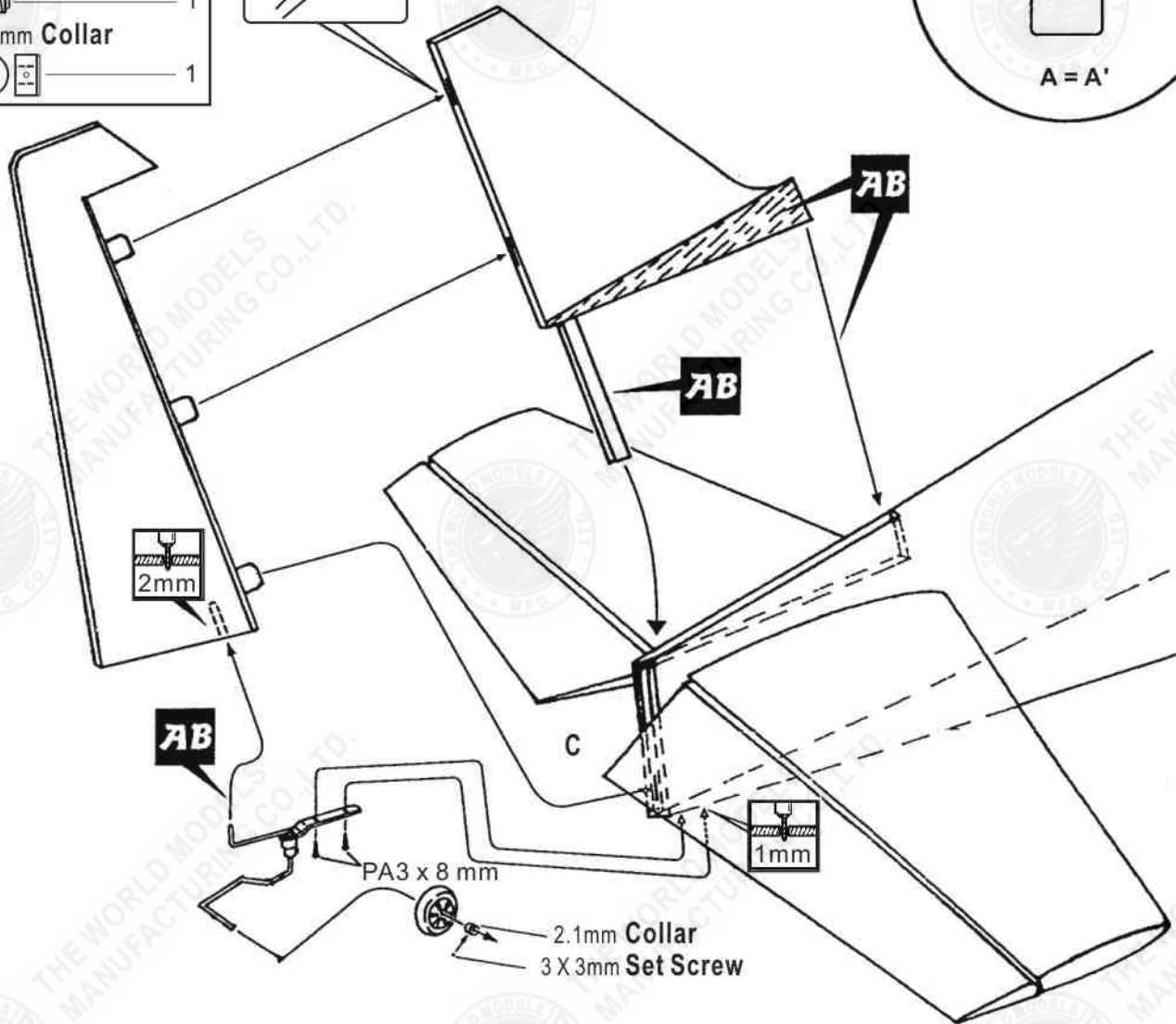
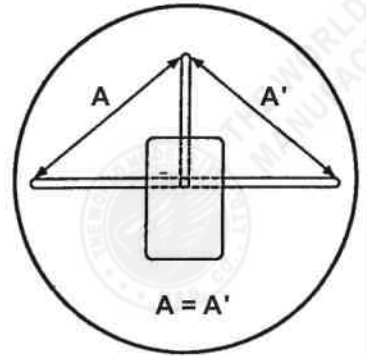
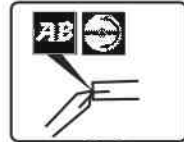
3 X 3mm Set Screw

2.1mm Collar

2.1mm Collar

3 X 3mm Set Screw

2.1mm Collar



7 Fuel Tank

PWA2.3X 12mm Screw

PWA2.3X 12mm Screw

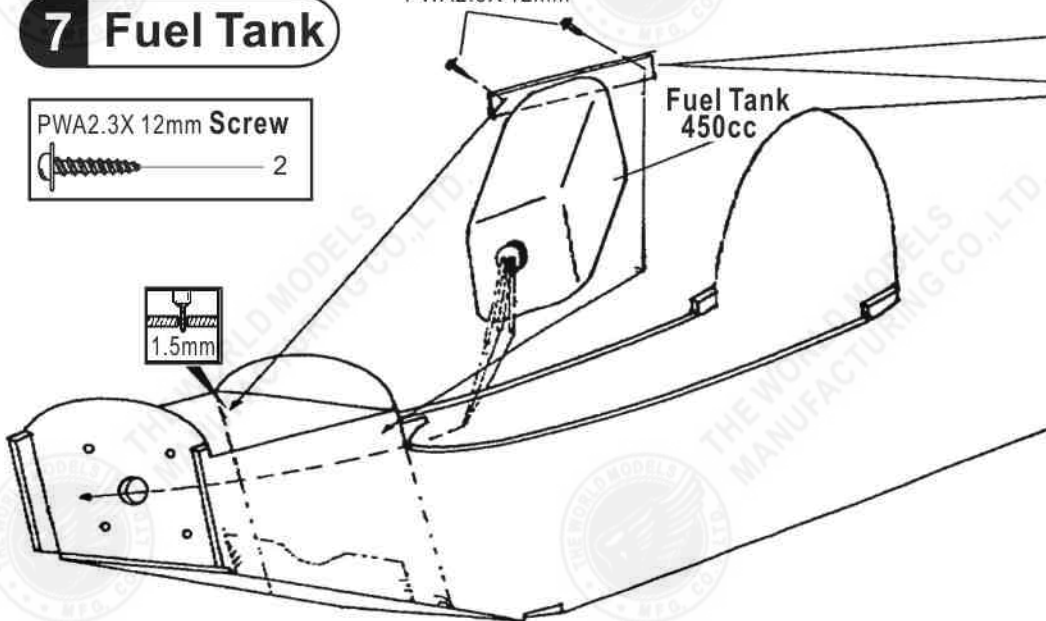
PWA2.3X 12mm

Fuel Tank
450cc

Install Plywood 3x15x145mm
(For fixing fuel tank)

Fuel Tank

● Completed



8 Engine Mount

PM4 x 25mm Screw



4

4mm Washer



4

Engine Mount
PL5111-070

PM4 x 25mm

4mm

9 Engine

PM4 x 30mm Screw



4

4mm Washer

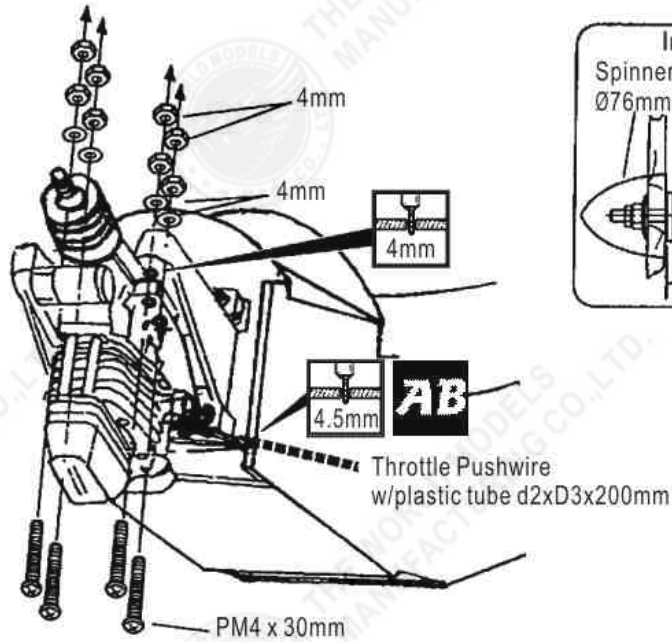


4

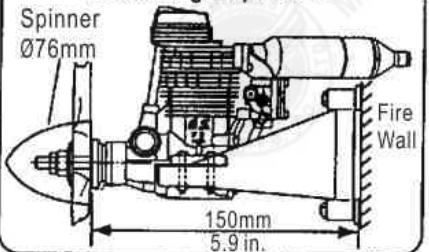
4mm Nut



8



Install Engine position



10 Cowling

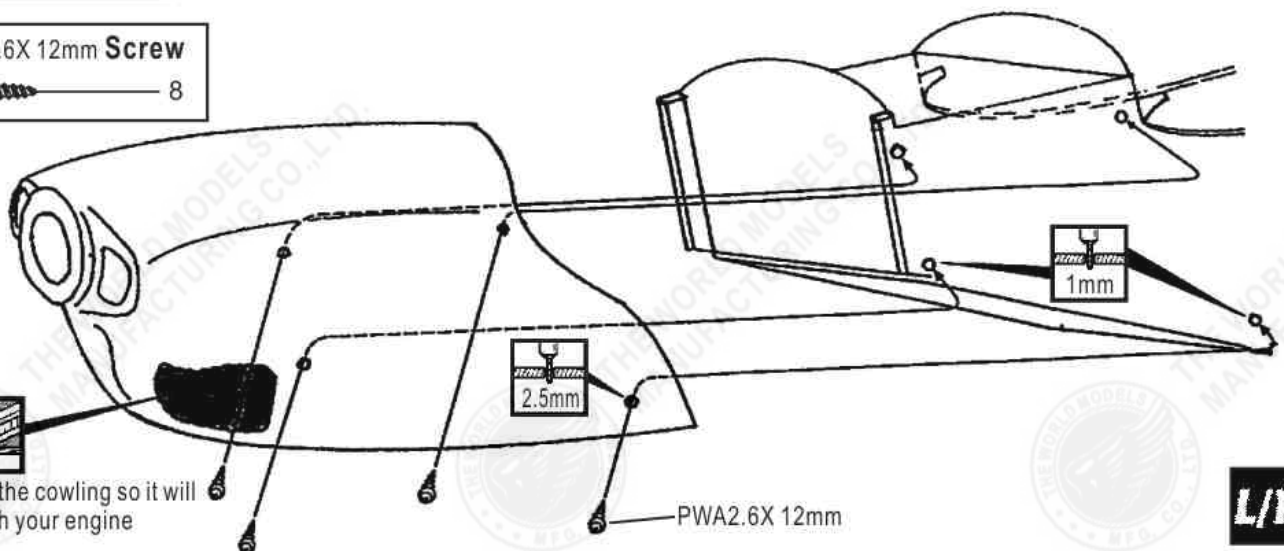
PWA2.6X 12mm Screw



8

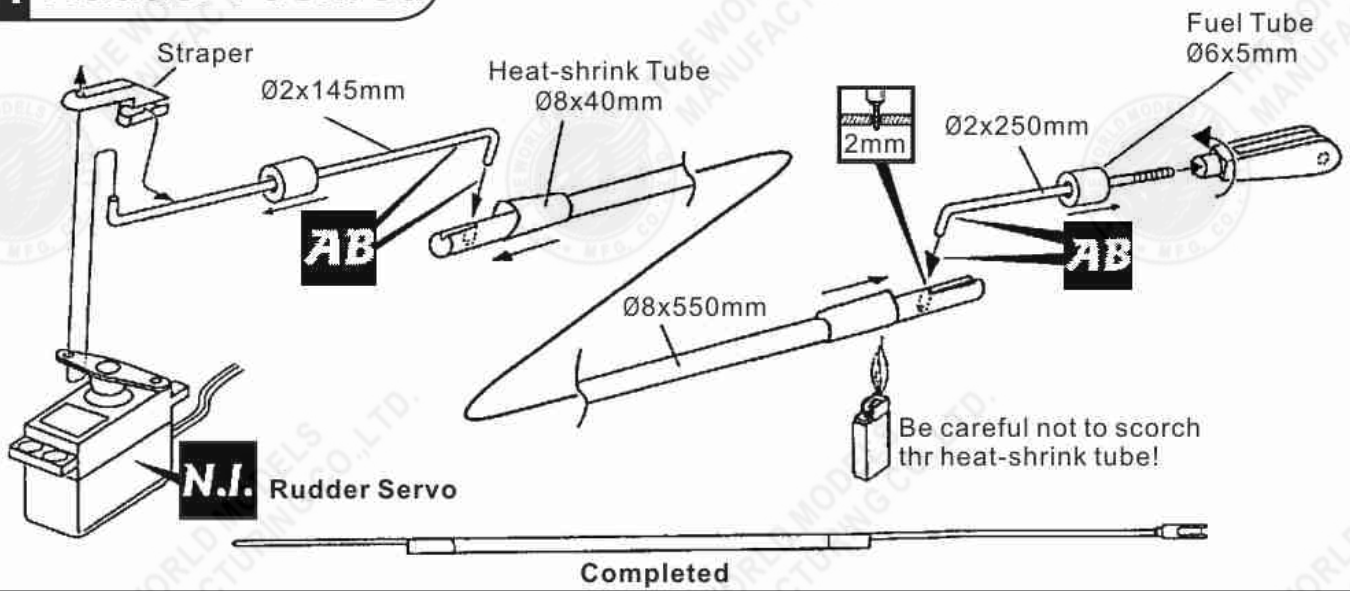


Trim the cowling so it will
match your engine

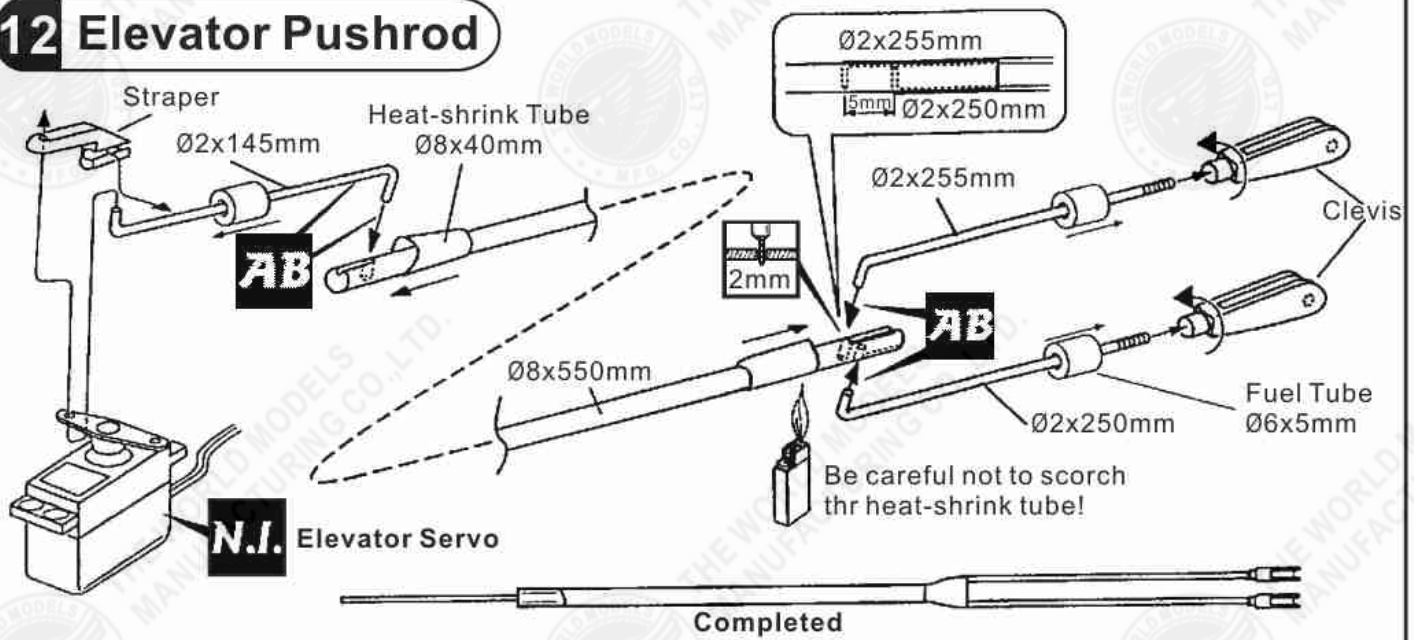


L/R

11 Rudder Pushrod

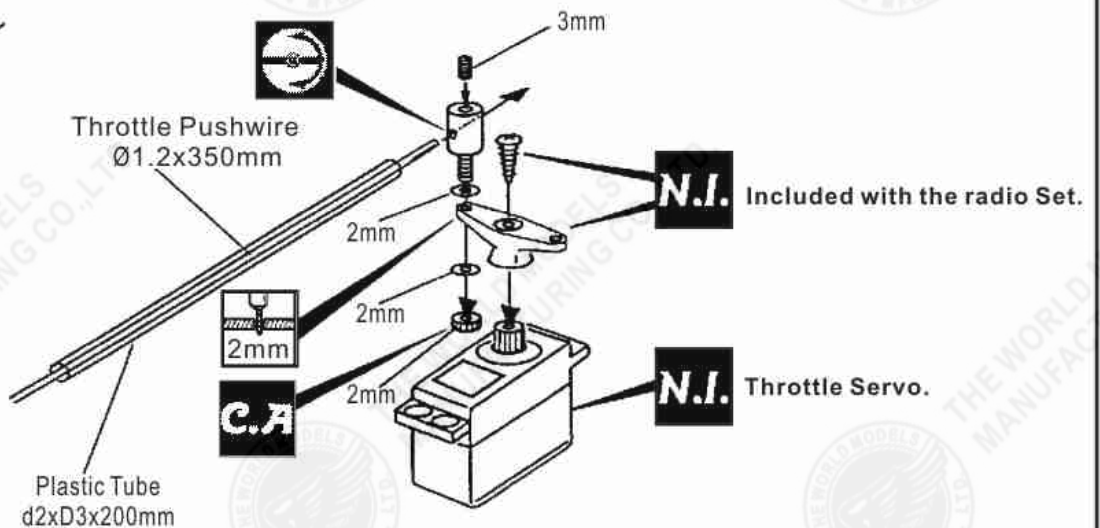


12 Elevator Pushrod



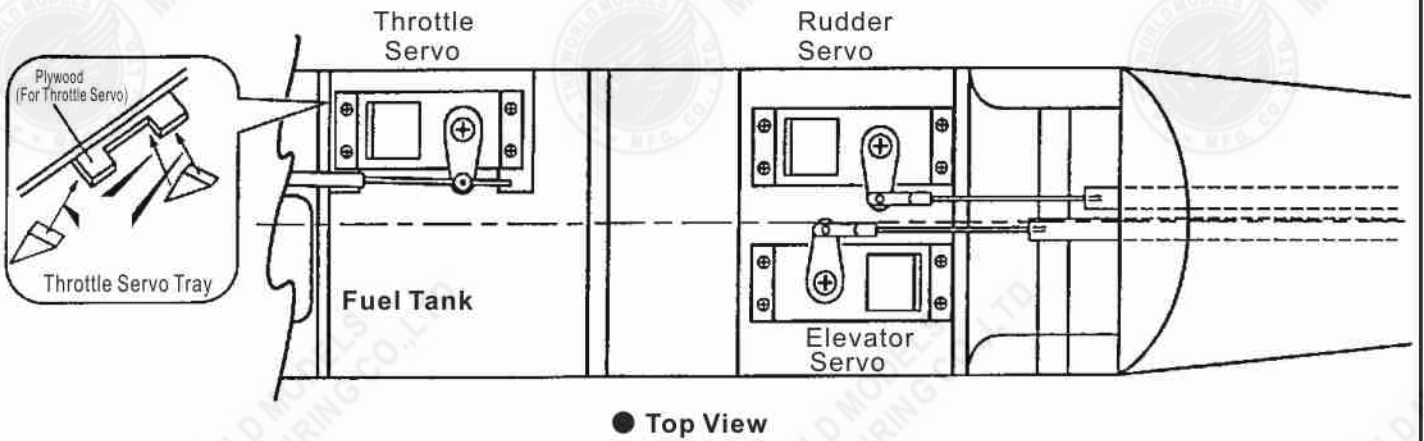
13 Servo Set

- | Adjuster | |
|-------------------|---|
| 3 X 3mm Set Screw | 1 |
| Linkage Connector | 1 |
| 2mm Nut | 1 |
| 2mm Washer | 2 |



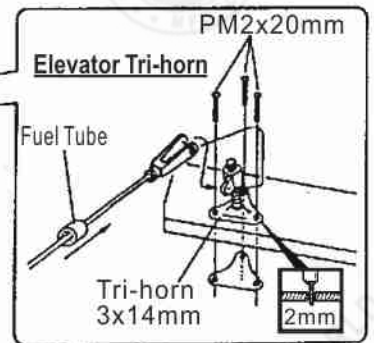
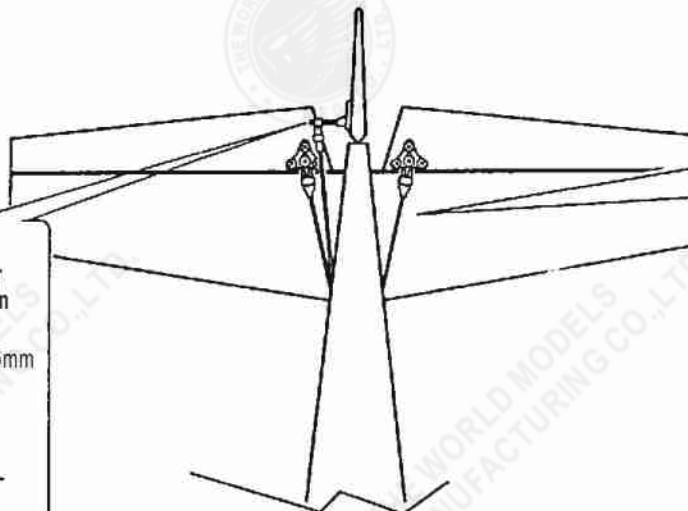
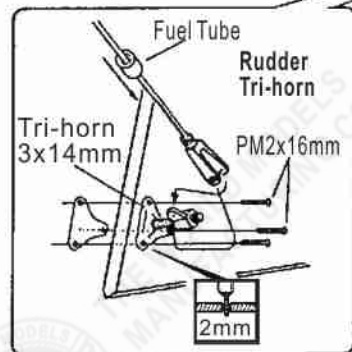
14 Radio Equipment

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



15 Linkage

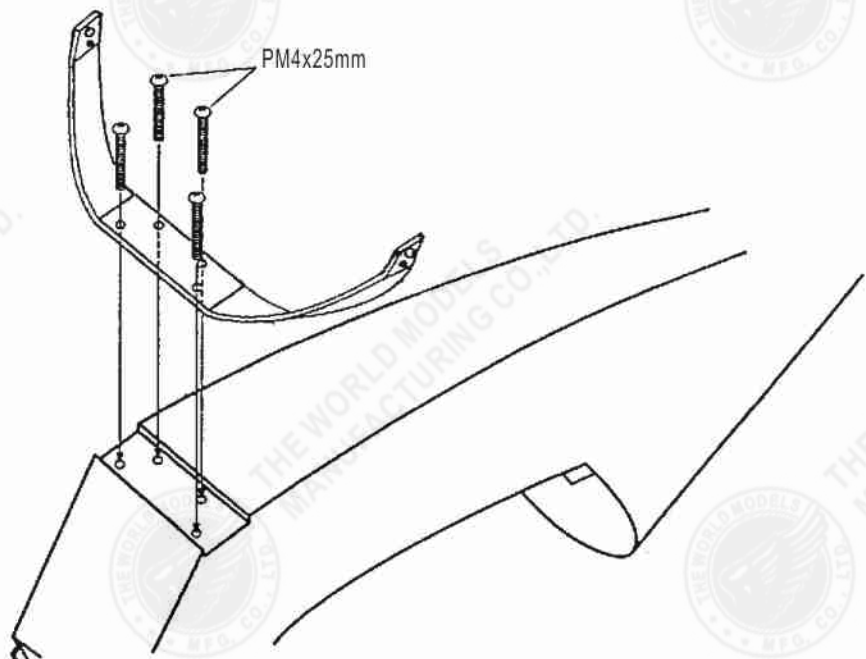
- PM2 x 16mm Screw — 3
- PM2 x 20mm Screw — 6



● Bottom View

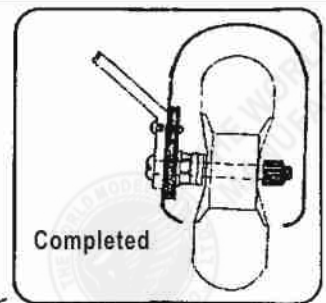
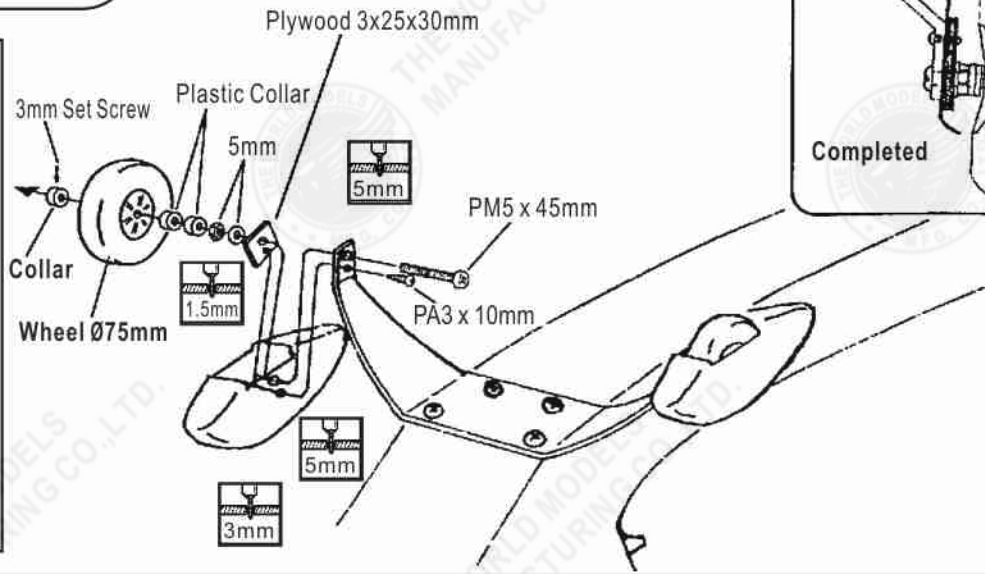
16 Landing Gear

- PM4 x 25mm Screw — 4



17 Landing Gear

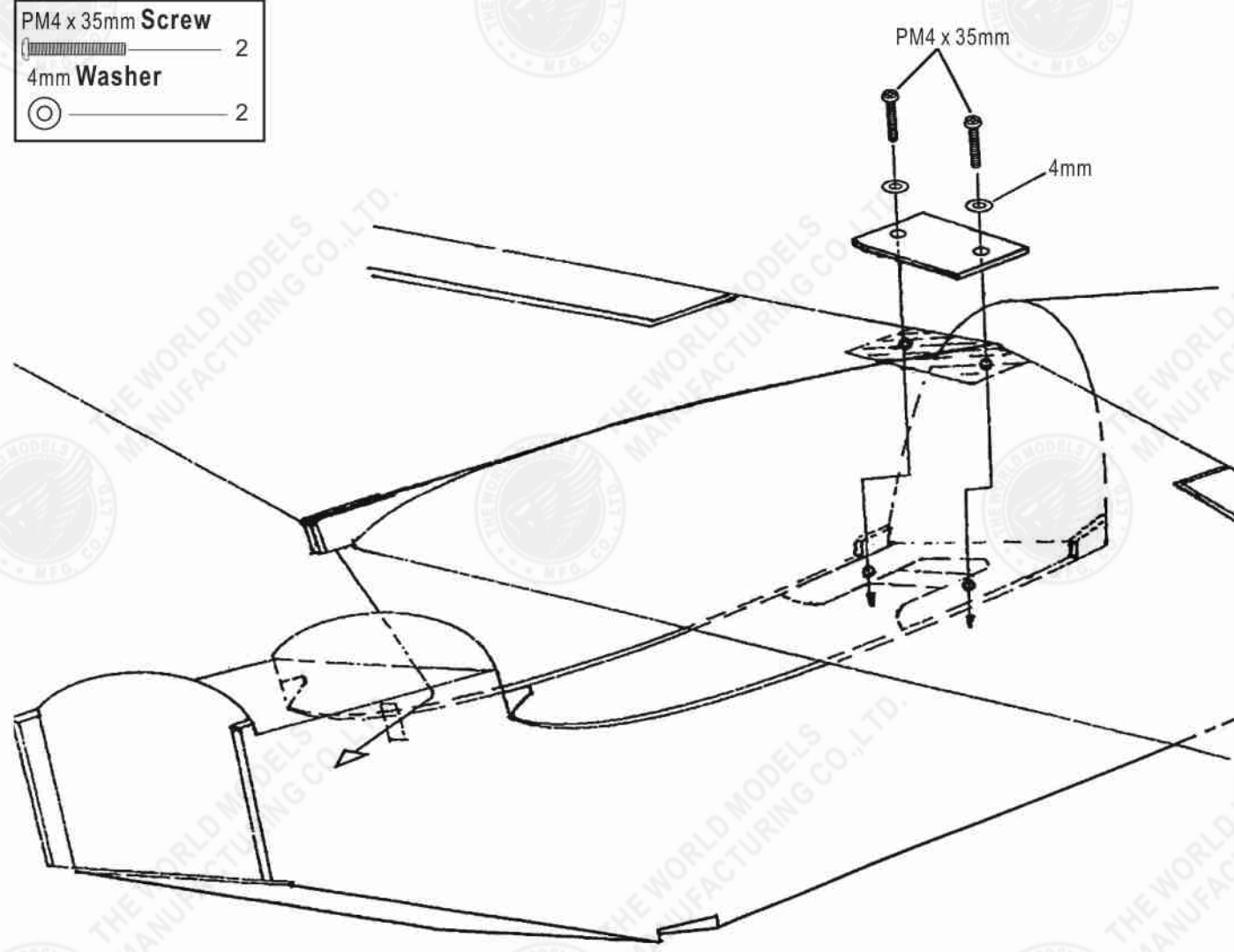
- PA3 x 10mm Screw — 2
- 5mm Washer — 2
- 5mm Nut — 2
- 5.1mm Plastic Collar — 2
- 5.1mm Collar — 4
- 3mm Set Screw — 2
- 5.1mm Collar — 2
- PM5 x 45mm Screw — 2



L/R

18 Main Wing

- PM4 x 35mm Screw — 2
- 4mm Washer — 2



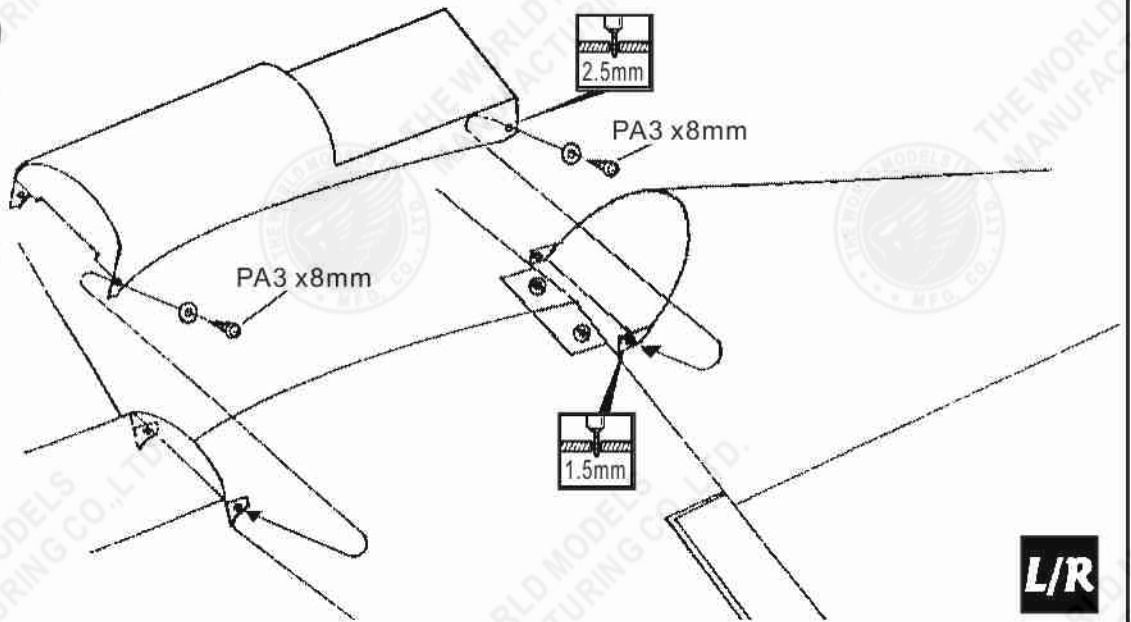
19 Cockpit

PA3 x 8mm Screw

3mm Washer

4

4

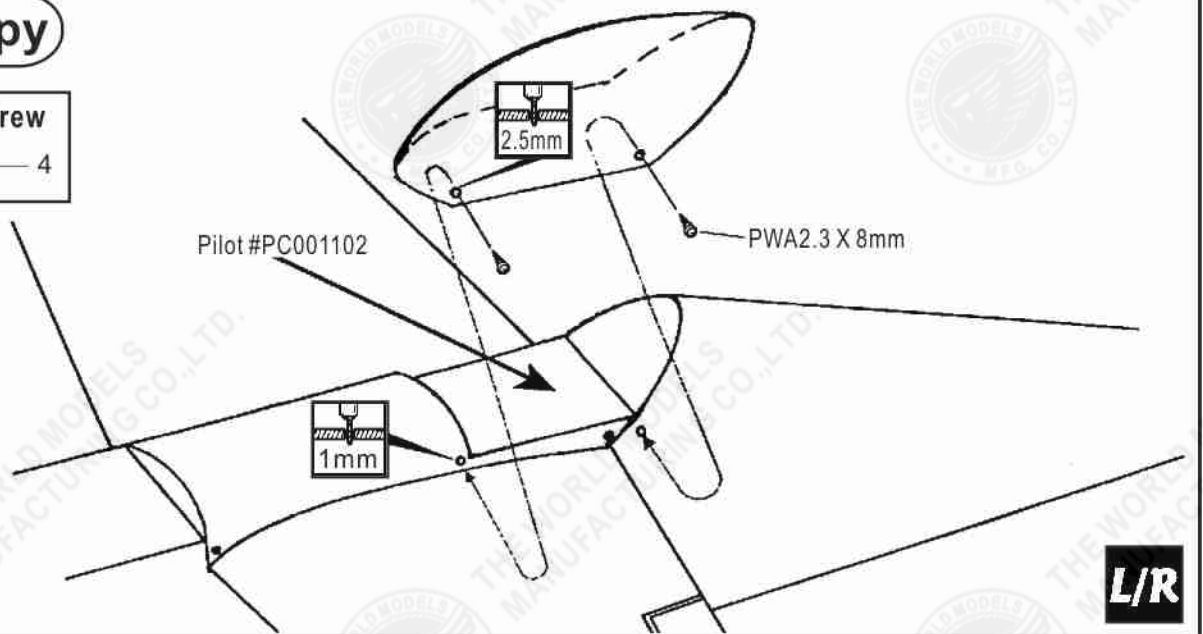


L/R

20 Canopy

PWA2.3 X 8mm Screw

4

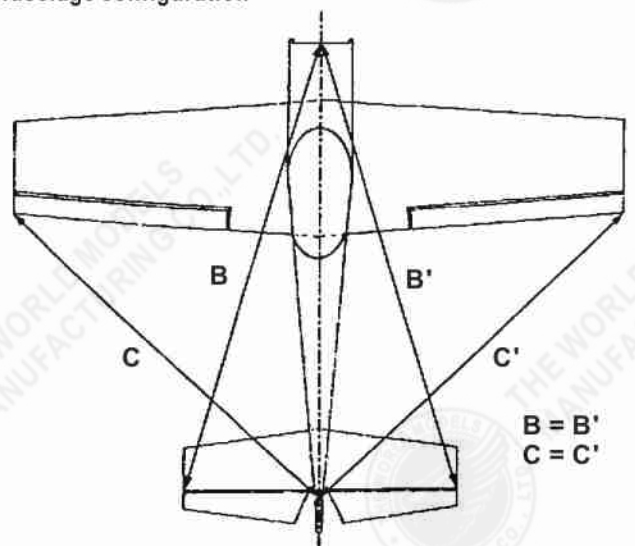
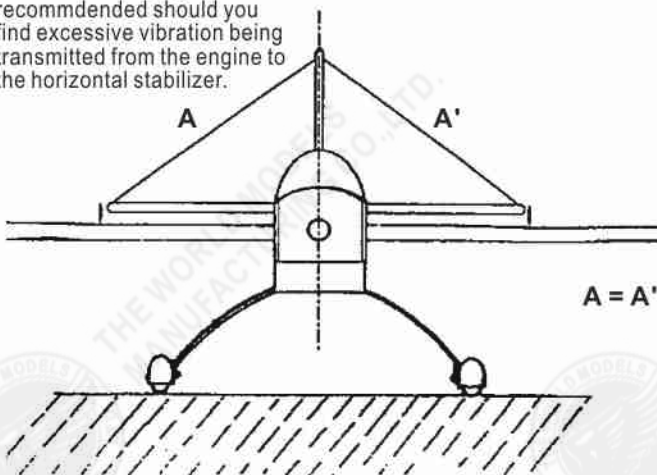


L/R

21 Wing Setting

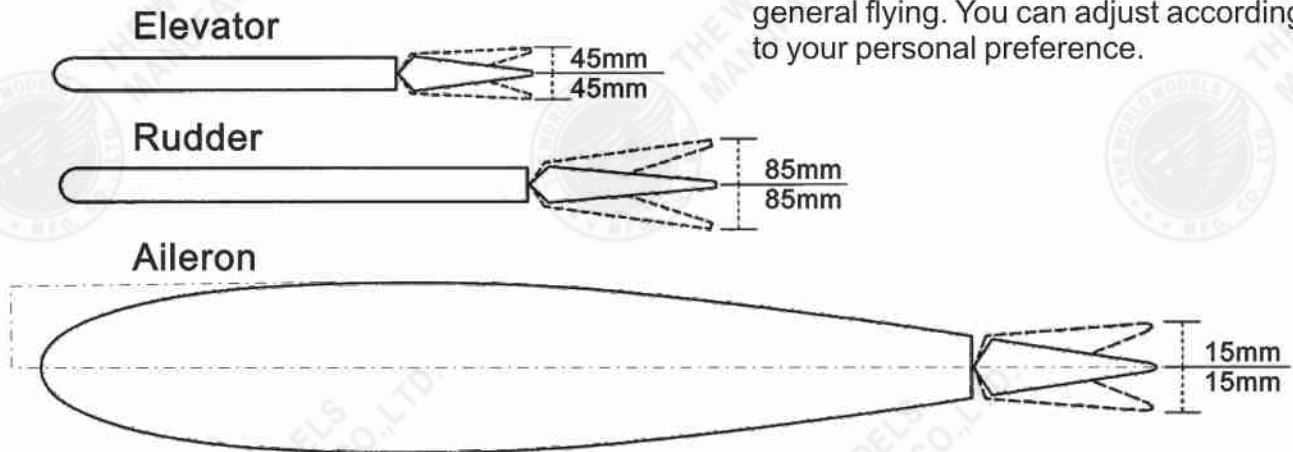
Installation of flying wires is recommended should you find excessive vibration being transmitted from the engine to the horizontal stabilizer.

Adjust the wing and fuselage configuration as in the diagrams.



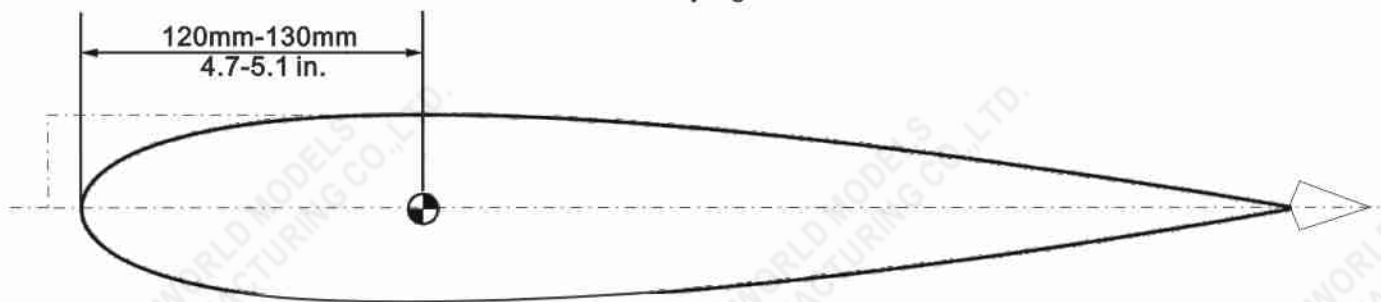
22 Control Throws

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 **120-130mm** 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.
- #**EXTRA 300 - 120S** is specially designed to be powered by **4C 1.20** 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.

