

Extra Sports 30S

■■■■■■ INSTRUCTION MANUAL



0 48 -0 56 cubic inch displacement 4 -stroke
Radio Requires: 4 -channel radiol w /4 standard servos

Specifications

| | |
|-----------------|------------------------|
| Wing Span | 52.0 in / 1320 mm |
| Wing Area | 419 sq in / 27.0 sq dm |
| Flying Weight | 4.5 lbs / 2040 g |
| Fuselage Length | 44.0 in / 1120 mm |

* 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.



TWM
The World Models
Manufacturing Co., LTD.
www.theworldmodels.com

FACTORY PRE-FABRICATED
ALMOST-READY-TO-FLY (ARF) SERIES
MADE IN CHINA

Extra Sports - 30S

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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 not extend to the parts that are good before gluing to defective parts during assembly.
- 3** Symbols used throughout this instruction manual comprise of the following :-

AB

Apply epoxy glue.

C.A

Apply instant glue
(C.A.glue, super glue.)



Apply thread locker

N.I.

Must be purchased separately!

L/R

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.

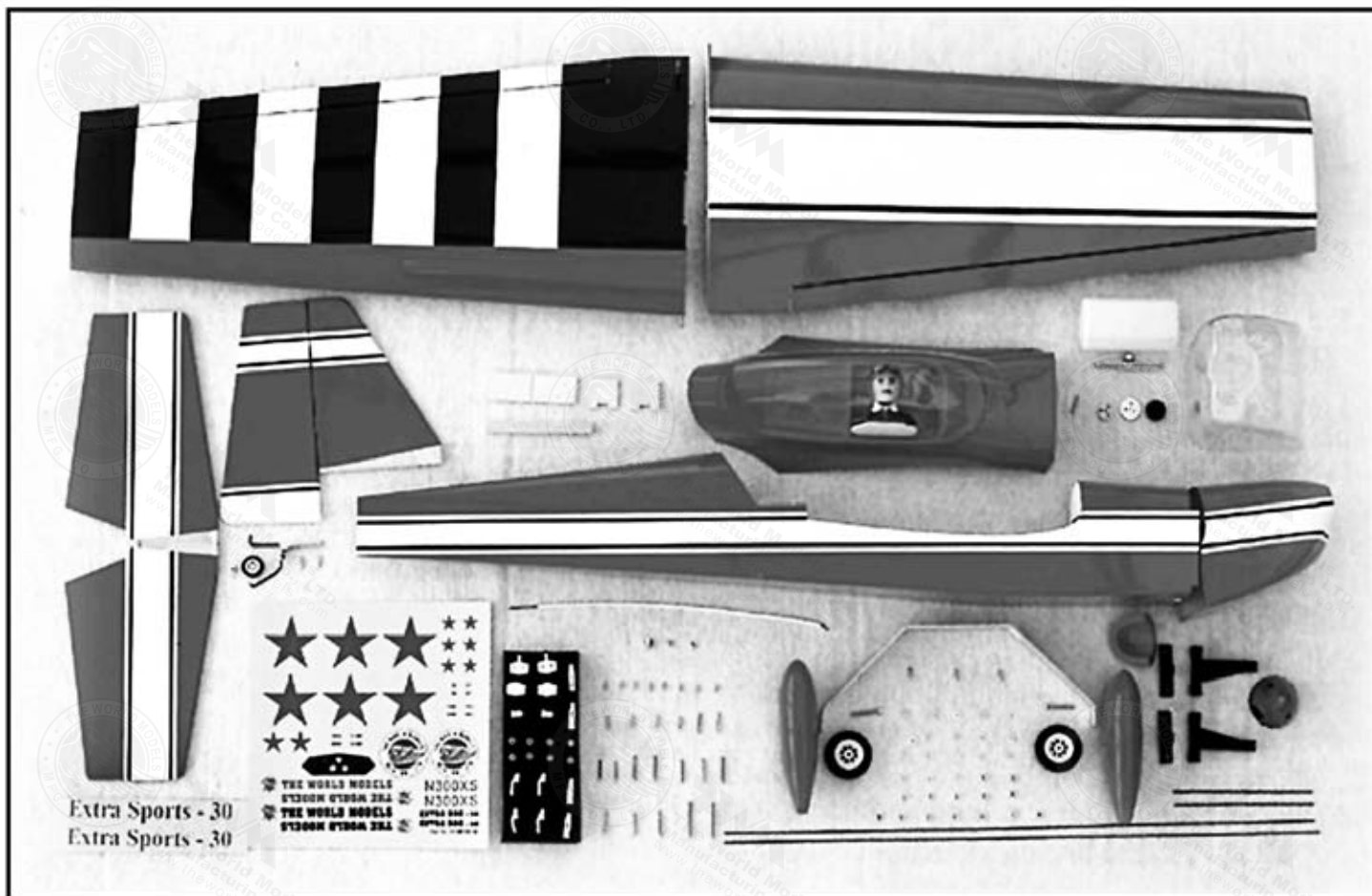


Pay close attention here!



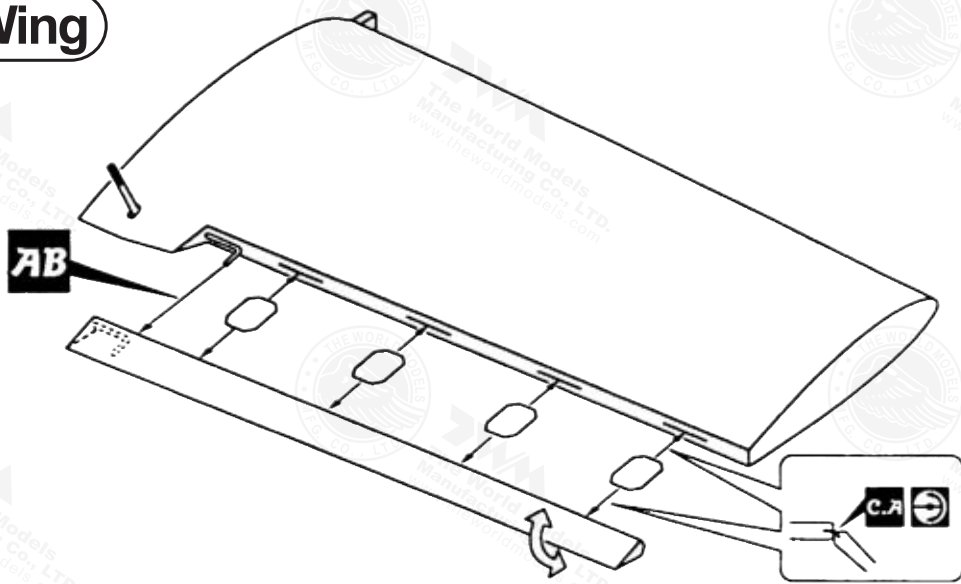
Warning!

Do not overlook this symbol!



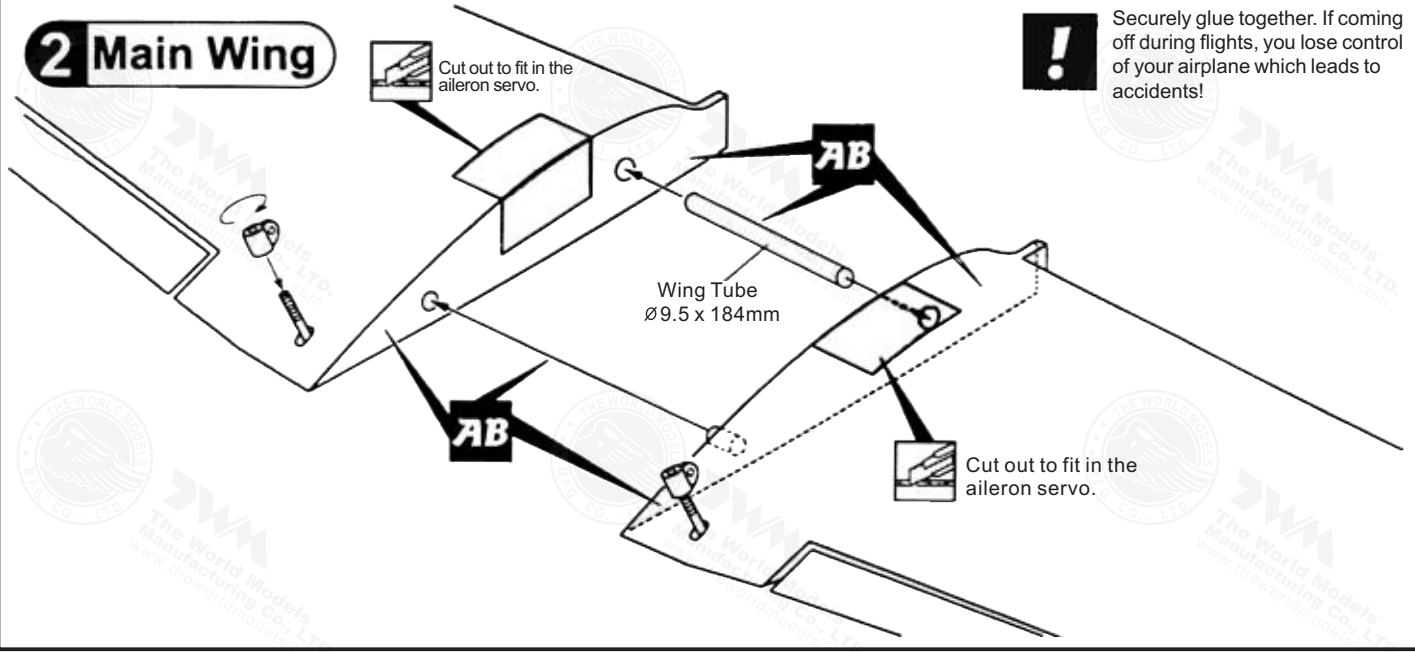
1. MAIN WING -- 1 pair.
 2. RING Ø2.3mm -- 2 pcs.
WING TUBE Ø9.5x184mm -- 1 pc.
 3. PLYWOOD 3x30x94mm (Wing Protection) -- 1 pc.
 4. FUEL TUBE Ø 6x5mm -- 4pcs
CLEVIS -- 2 pcs
PUSHROD Ø 1.8x150mm w/Threads (For Aileron) -- 2pcs
STRAPER -- 2 pcs
PLYWOOD 3x31x32mm (For Aileron Servo Stand) -- 2pcs
PLYWOOD 3x32x60mm (For Aileron Servo) -- 1 pc.
 5. FUSELAGE -- 1 pc.
MAINLANDING GAR -- 1 set
SCREW PM3x10mm -- 3 pcs
 6. WHEEL PANTS -- 1 pair
MAIN WHEEL Ø58mm -- 2pcs
SCREW PM3.5x35mm -- 2pcs
WASHER d3.5xD8mm -- 4 pcs
M3.5 NUT -- 6pcs
SCREW PA3x6mm -- 2 pcs
 7. STBAILZER & ELEVATOR -- 1set
 8. SCREW PM2x12mm -- 2 pcs
HORN -- 1set
 9. VERTICAL FIN & RUDDER -- 1 pc.
 10. TAIL LANDING GEAR -- 1 set
ALUMI NUM PLATE (For Tail Landing Gear) -- 1 pc.
TAIL WHEEL Ø23mm -- 1pc
SCREW PM2x12mm -- 3pcs
SCREW PA3x12mm -- 2pcs
M2 NUT -- 1pc.
HORN -- 1pc.
COLLAR 2.1mm w/set screw -- 1set
 11. ENGINE MOUT5111030 -- 1set
SCREW PM 3x22mm -- 4pcs
WASHER d3xD7mm -- 4pcs
 12. FUEL TANK 200cc -- 1 set
BALSA 5x12x113 (For Fixing Fuel Tank) -- 1 pc.
 13. SCREW PM3x25mm -- 4pcs
WASHER d3xD7mm -- 8pcs
M3 NUT -- 8pset
THROTTLE PUSHWIRE Ø1.2x335mm -- 1 pc.
w / Plastic Tule d2xD3X300m -- 1 pc.
 14. COWLING -- 1set
TRANSPARENT DUMMY COWLING -- 1pc
SCREW PWA2.6x12mm -- 4pcs
SILICON GROMMET d1.5xD6.5mm -- 4pcs
SPINNER Ø52mm -- 1 pc.
 15. LINKAGE CONNECTOR 2.1mm -- 1set
 16. PLYWOOD 3x8x109.1mm(For Throttle Servo Stand) -- 1pc.
SPONGE 10x80x200mm -- 2pcs
PLYWOOD 3x8x112mm(For Throttle Servo Stand) -- 1pc.
PLYWOOD 3x58x118mm(For Throttle Servo) -- 1pc
PLYWOOD 3x8x106.6mm(For Fuselage Servos Stand) -- 1pc
PLYWOOD 3x58x112.6mm(For Fuselage Servos) -- 1pc
PLYWOOD 3X8X100.1mm(For Fuselage Servos Stand) -- 1pc
BALSA 6x7x58mm(For Throttle Servo Stand) -- 2pcs
BALSA 6x8x58mm(For Fuselage Servos Stand) -- 2pcs
FUEL TUBE Ø6x5mm -- 2pcs
STRAPER -- 2pcs
PUSHROD Ø1.8x635mm w/ Threads (For Elevator & Rudder)- 2pcs
 17. FUEL TUBE Ø6x5mm -- 2 pcs
CLEVIS -- 2pcs
 18. SCREW PM4x30mm -- 2pcs
WASHER d4xD9mm -- 2pc.
 19. SCREW PWA2.3x8mm -- 4 pcs
COCKPIT -- 1 pc.
SILICON GROMMET d1.5xD6.5mm -- 4pcs
 20. SCREW PWA2.3x8mm -- 4 pcs
SILICON GROMMET d1.5xD6.5mm -- 4 pcs
CANOPY -- 1pc
DOUBLE-SIDED TAPE Ø8x80mm -- 1pc.
PILOT -- 1pc.
 21. DECALS:ST200 026 -- 1set
- **COVERING:--**
 LIGHTEX SGX312 BRIGHT RED
 LIGHTEX SGX100 WHITE
 LIGHTEX SGX350 CORSAIR BLUE
 LIGHTEX SGX330 CADMIUM YELLOW

1 Main Wing

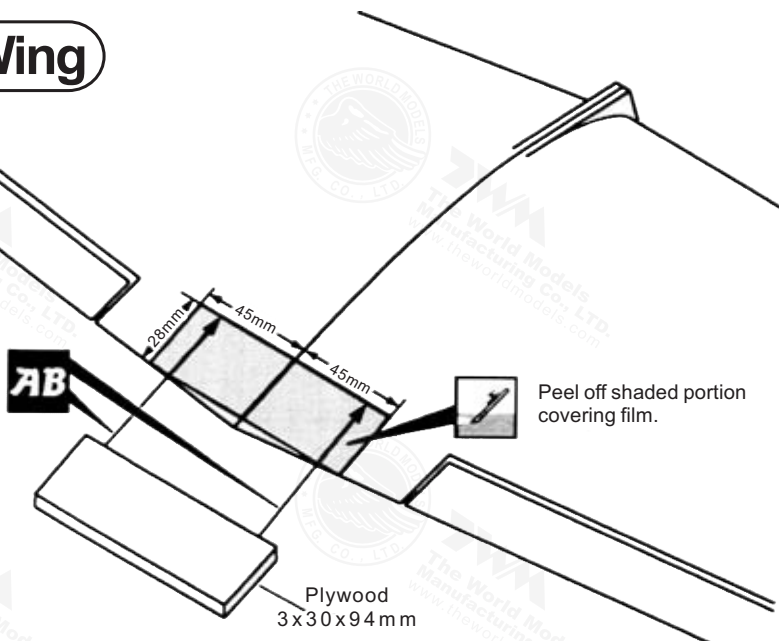


2 Main Wing

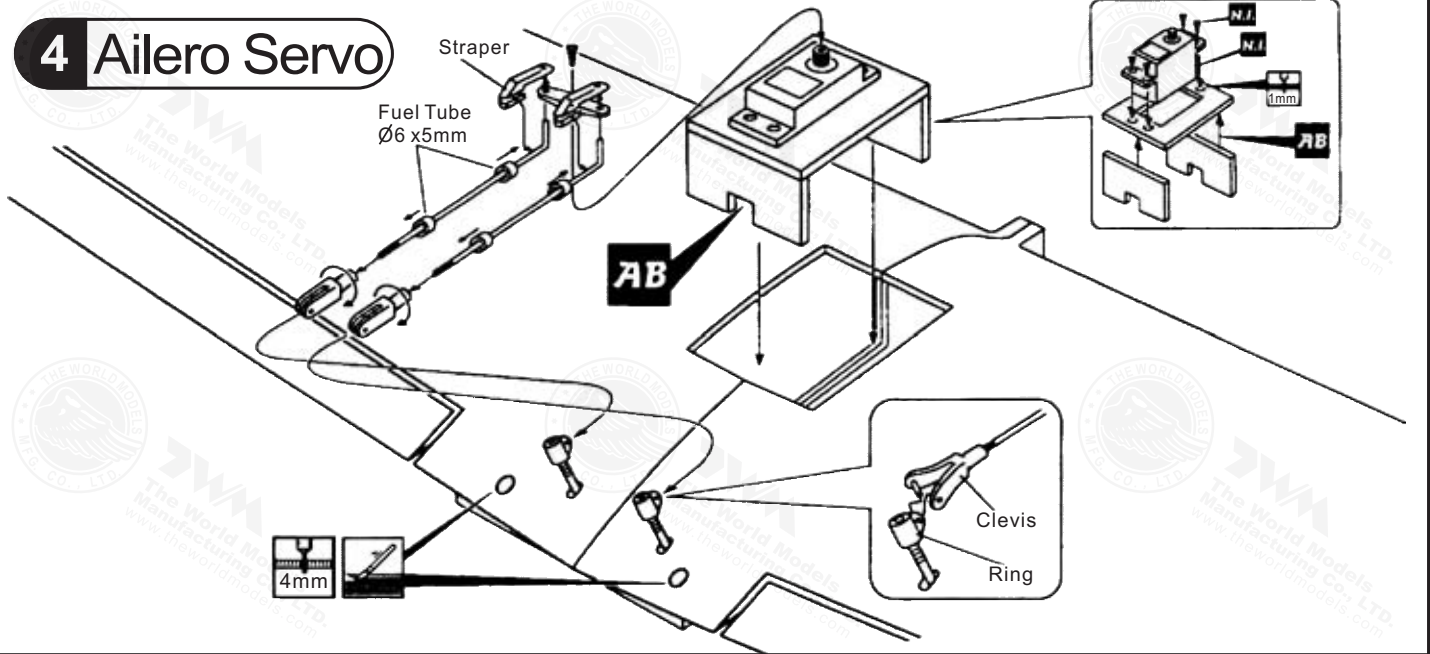
! Securely glue together. If coming off during flights, you lose control of your airplane which leads to accidents!



3 Main Wing



4 Ailero Servo

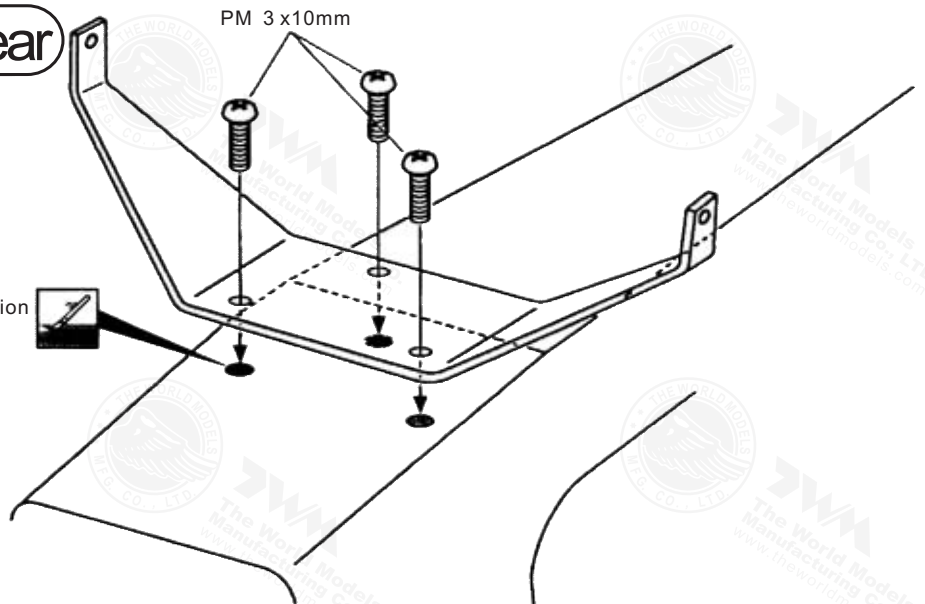


5 Main Landing Gear

PM 3 x10mm Screw

3

Peel off shaded portion covering film.



6 Main Landing Gear

PM 3.5 x35mm Screw

2

PA 3 x 6mm Screw

2

3.5mm Washer

4

3.5mm Nut

6

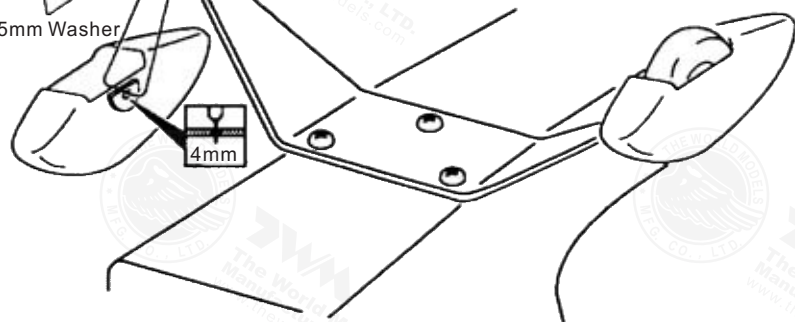
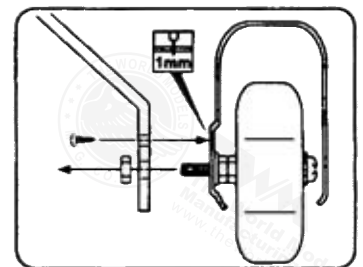
PM3.5x35mm

3.5mm Nut

PA 3 x6mm

3.5mm Washer

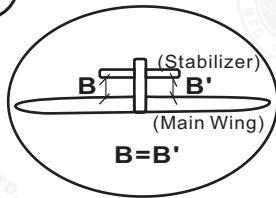
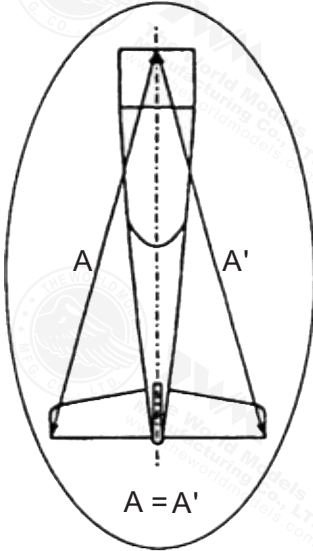
4mm



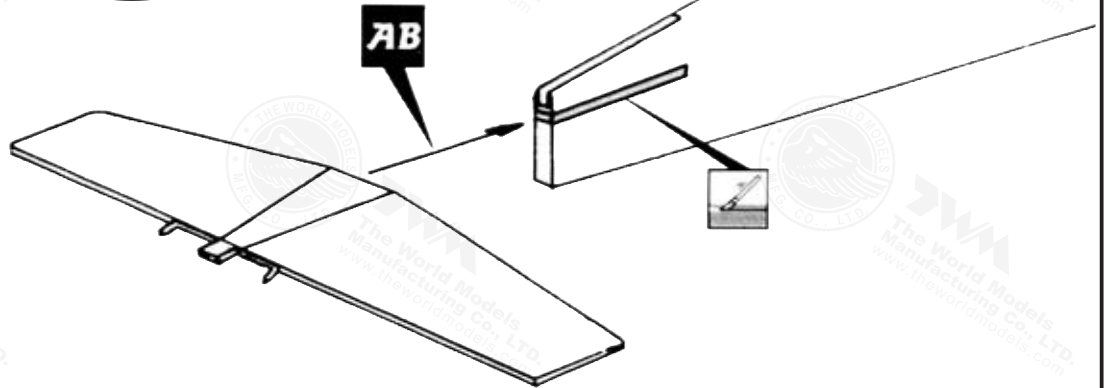
L/R

7 Stabilizer

! Securely glue together. If coming off during flights, you lose control of your airplane which leads to accidents!



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

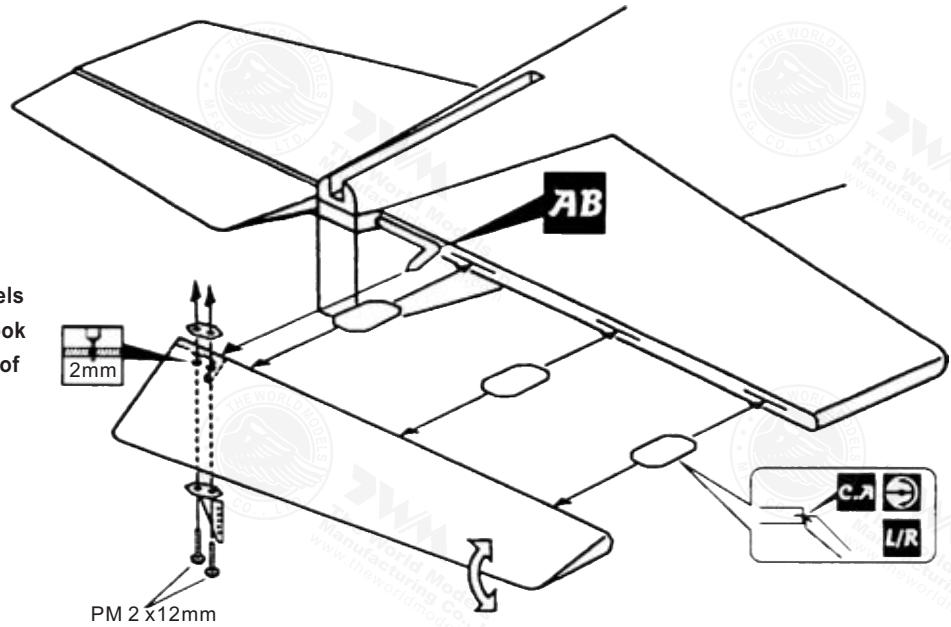


8 Elevator

PM 2 x 12mm Screw

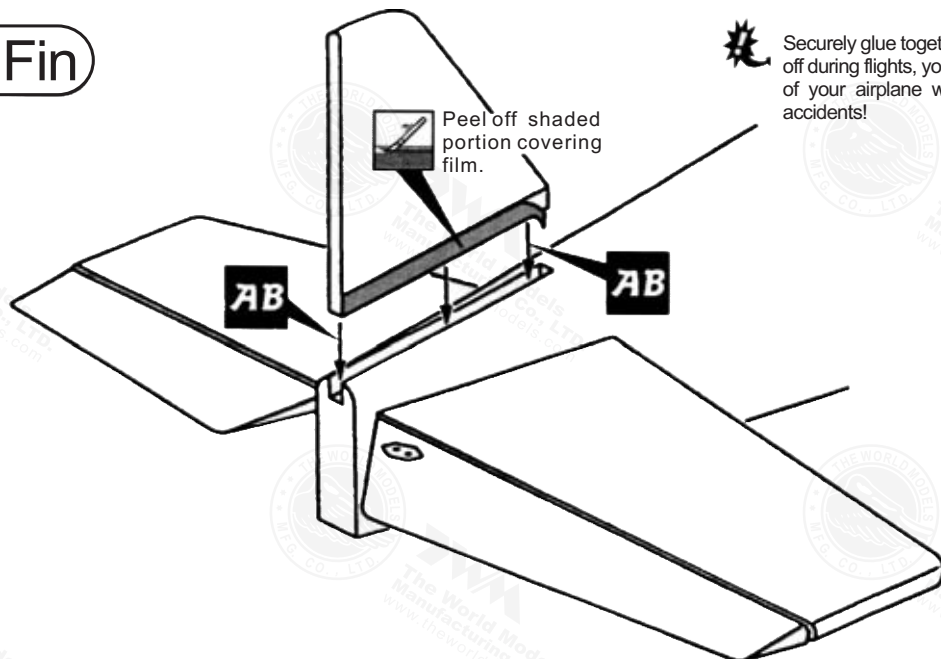
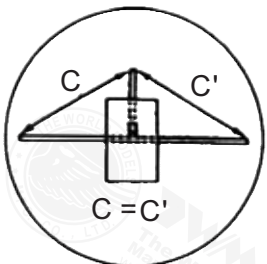


- Ø1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.



9 Vertical Fin

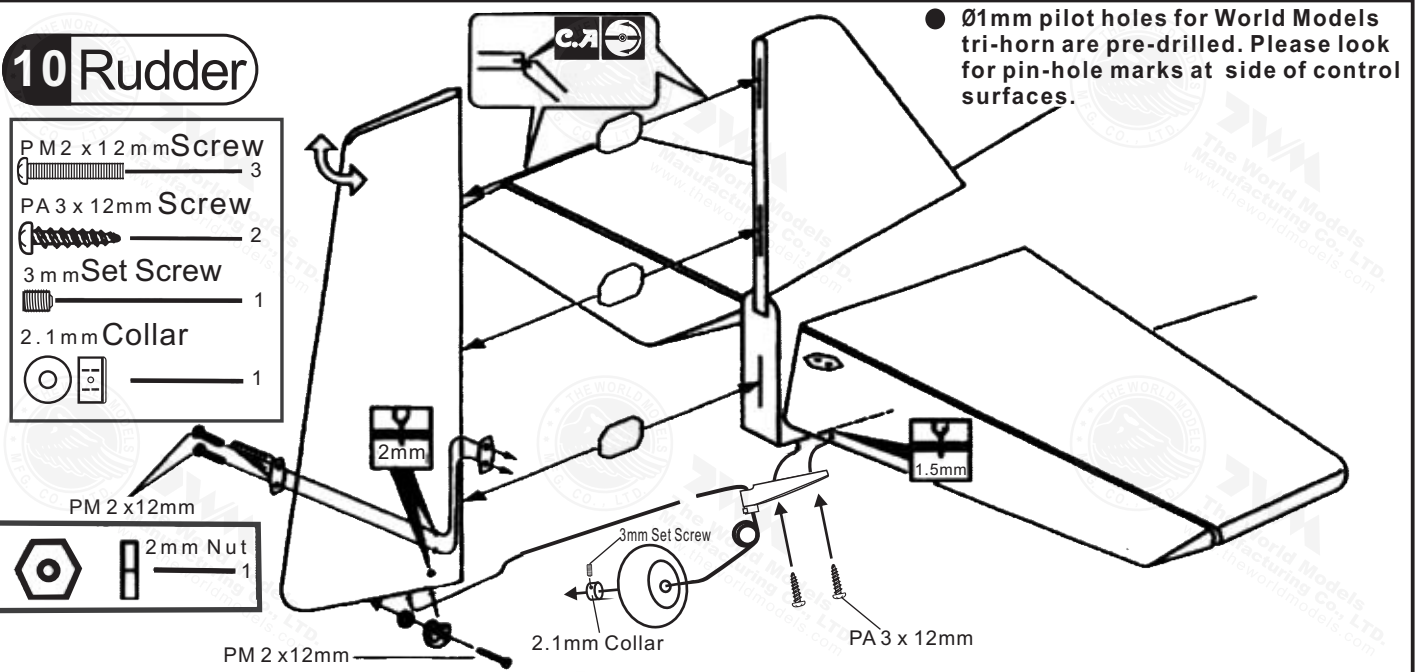
! Securely glue together. If coming off during flights, you lose control of your airplane which leads to accidents!



10 Rudder

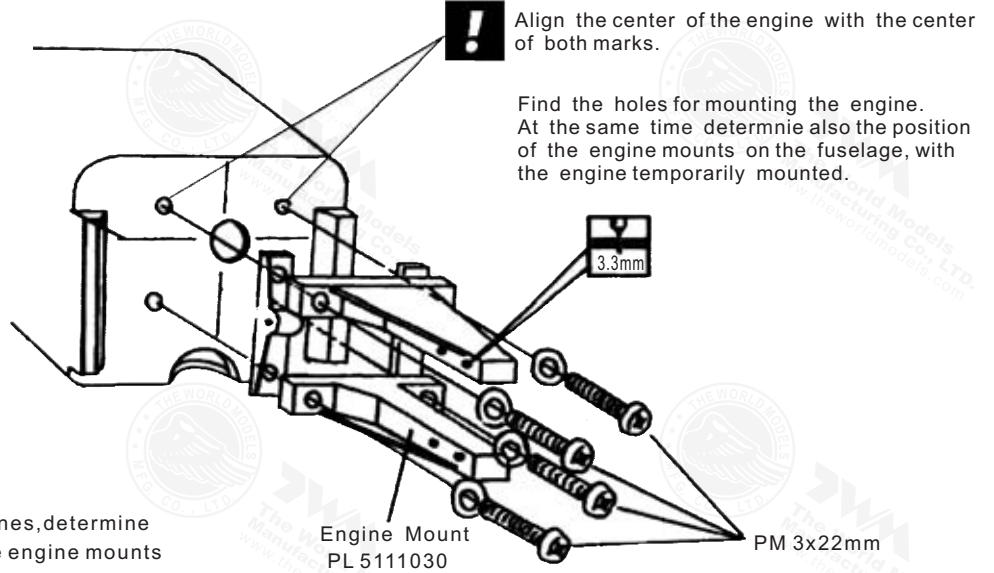
- PM 2 x 12 mm Screw — 3
- PA 3 x 12 mm Screw — 2
- 3 mm Set Screw — 1
- 2.1 mm Collar — 1

- PM 2 x 12 mm — 1
- 2 mm Nut — 1



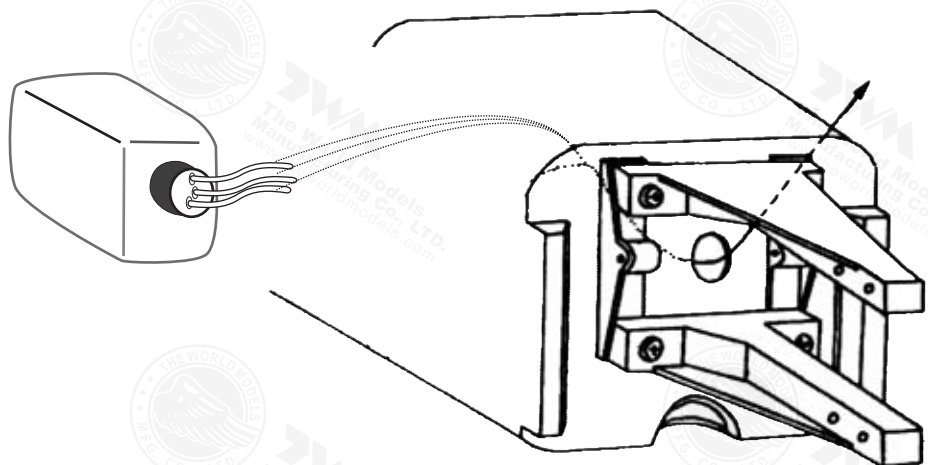
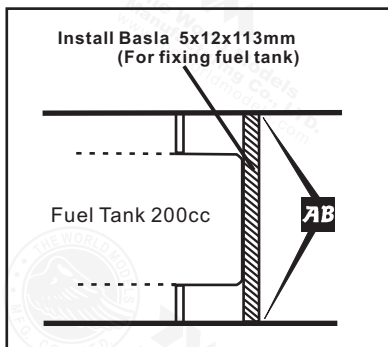
11 Engine Mount

- PM 3 x 22 mm Screw — 4
- 3 mm Washer — 4



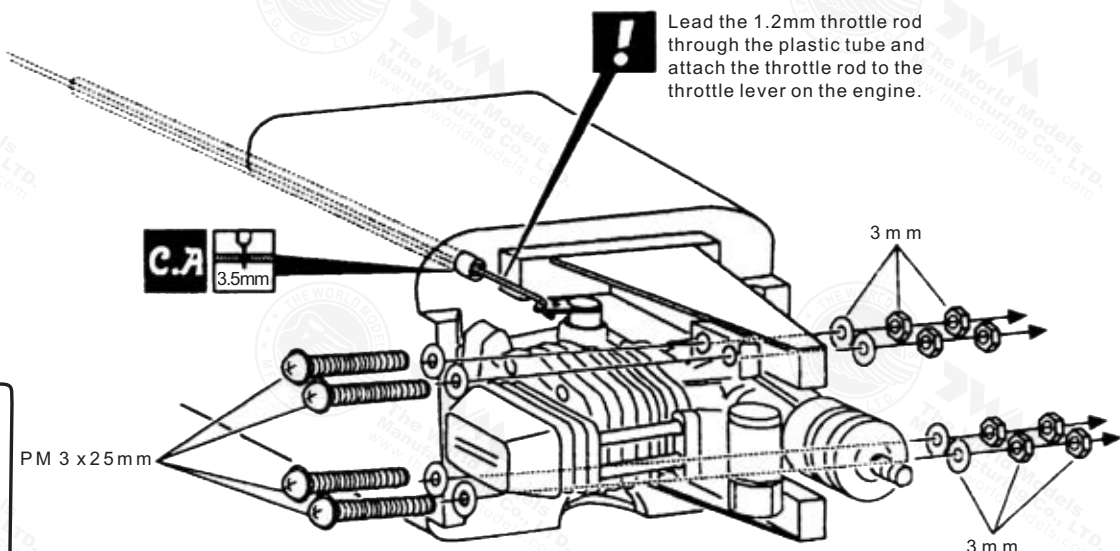
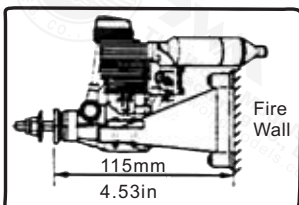
! With 2-cycle engines, determine the position of the engine mounts ensuring the muffler does not contact the plastic cover.

12 Fuel Tank



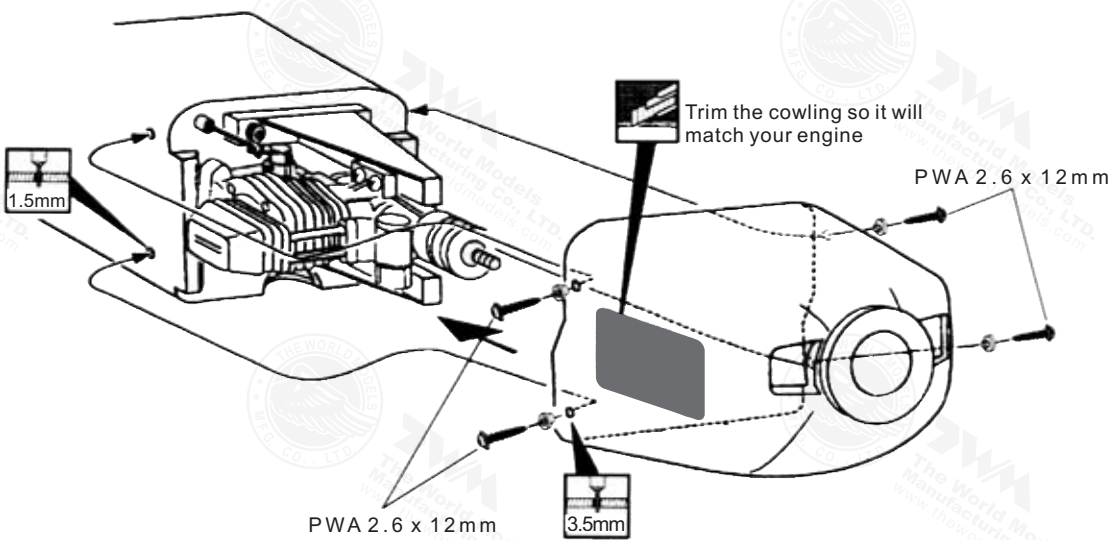
13 Engine

- PM 3 x 25 mm Screw — 4
- 3 mm Washer — 8
- 3 mm Nut — 8



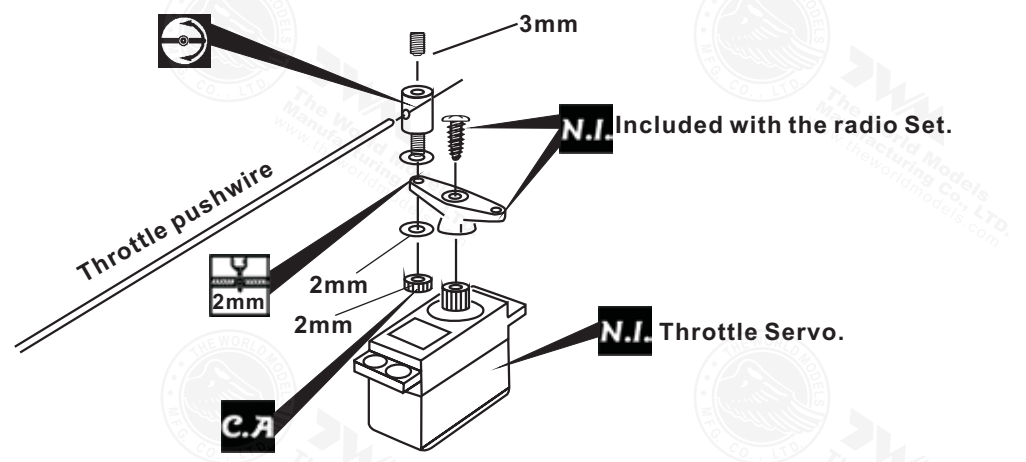
14 Cowling

- PWA 2.6 x 12mm Screw — 4
- d1.5xD6.5mm Silicon Grommet — 4



15 Servo Set

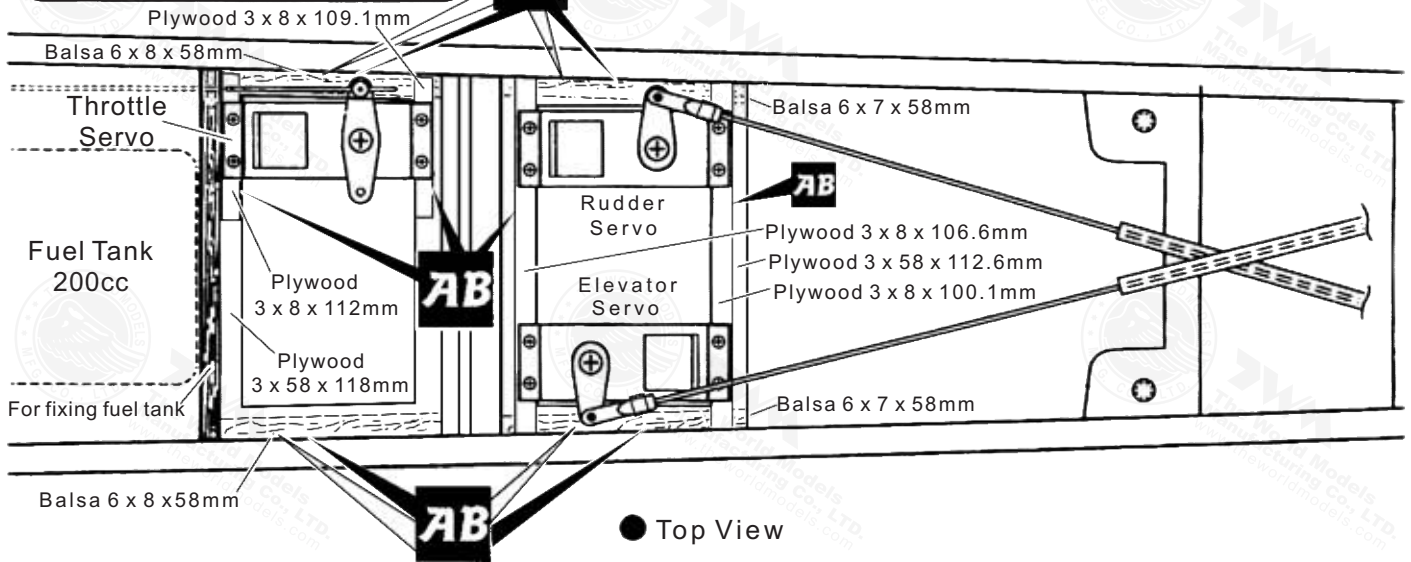
- LINKAGE CONNECTOR**
- 3x3mm Set Screw — 1
 - Linkage Connector — 1
 - M2 Nut — 1
 - 2mm Washer — 2



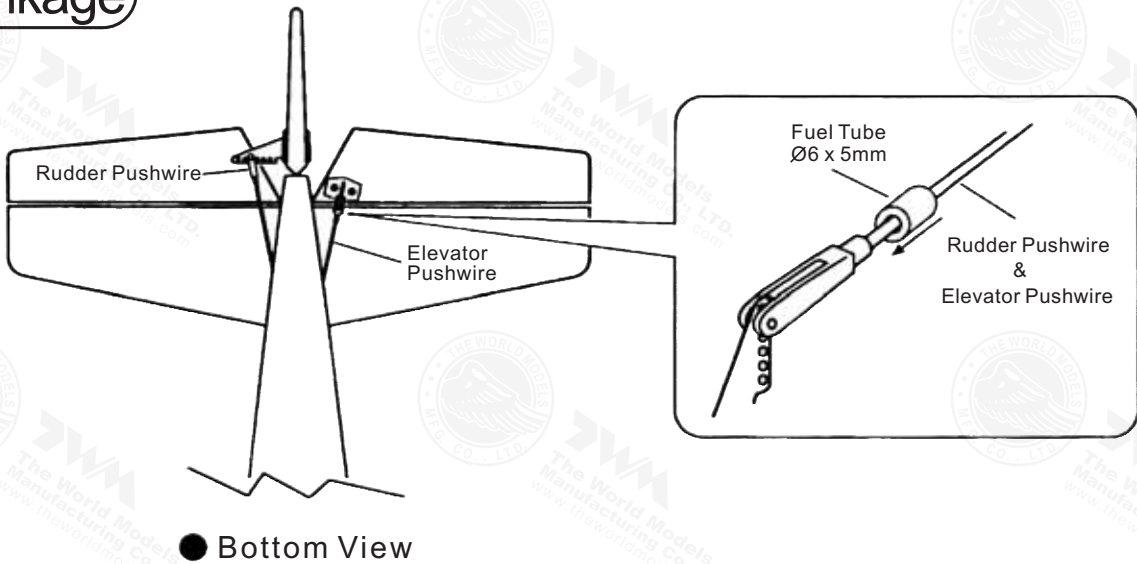
! Please refer to attached sheet for linkage connector installation.

16 Radio Equipment

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

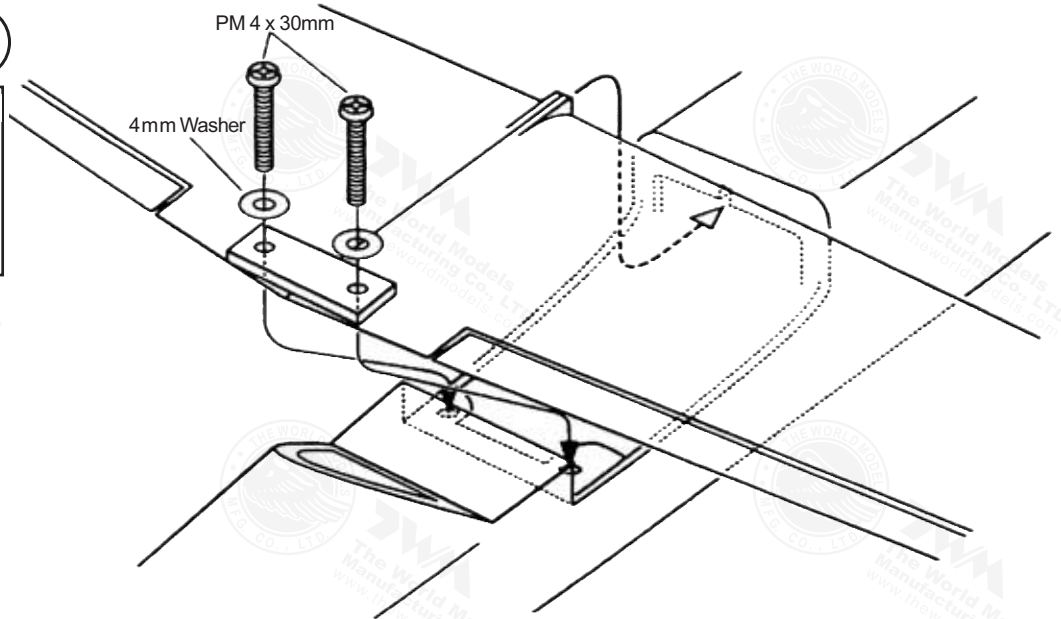


17 Linkage




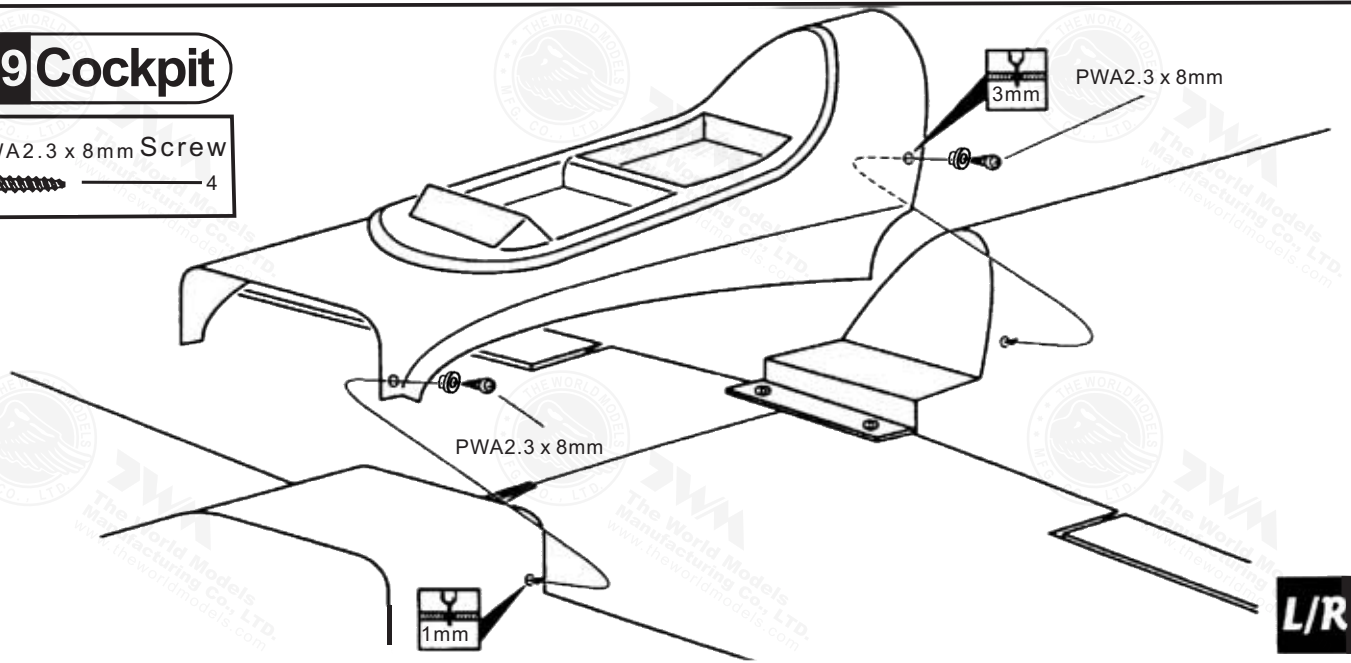
18 Main Wing

- PM 4 x 30mm Screw
- 4mm Washer





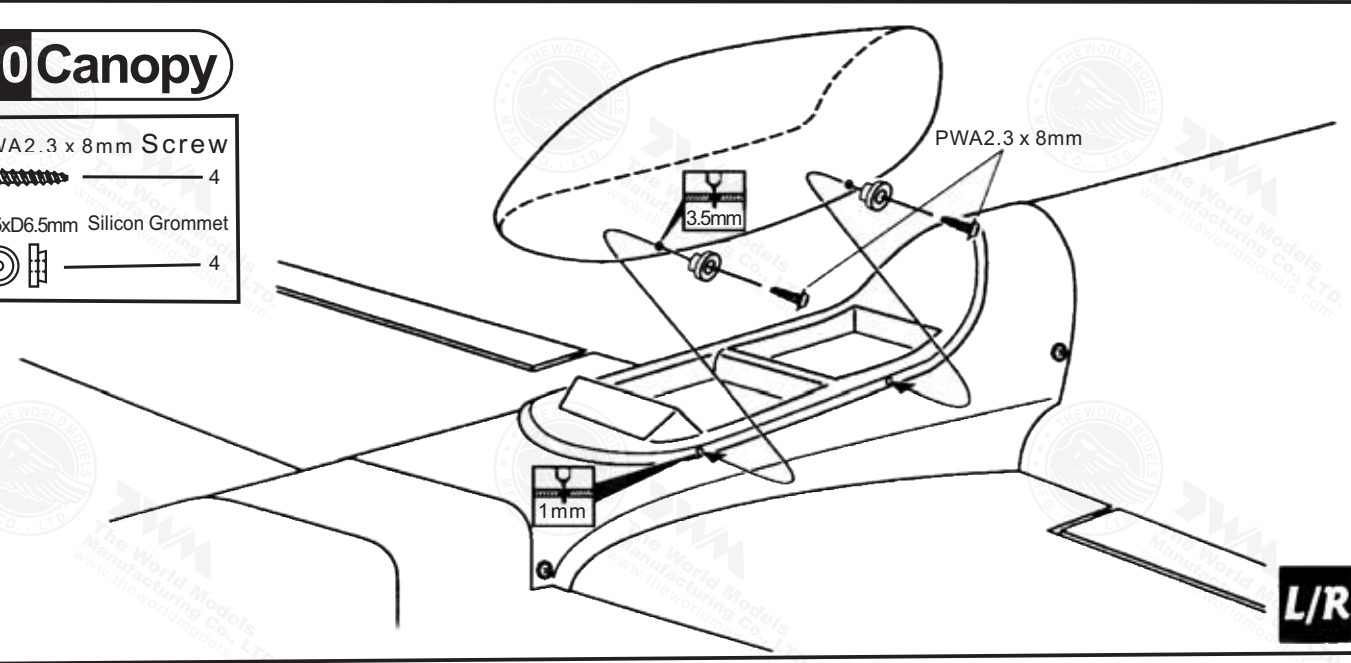
19 Cockpit

PWA2.3 x 8mm Screw
 4



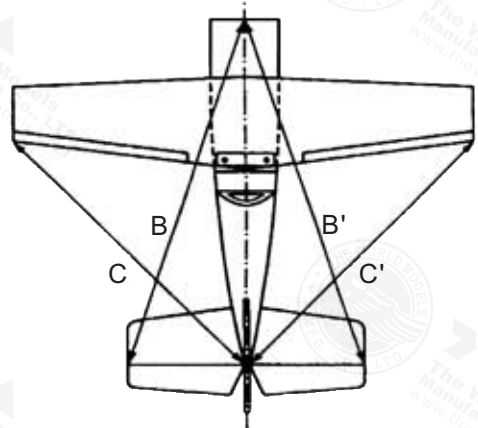
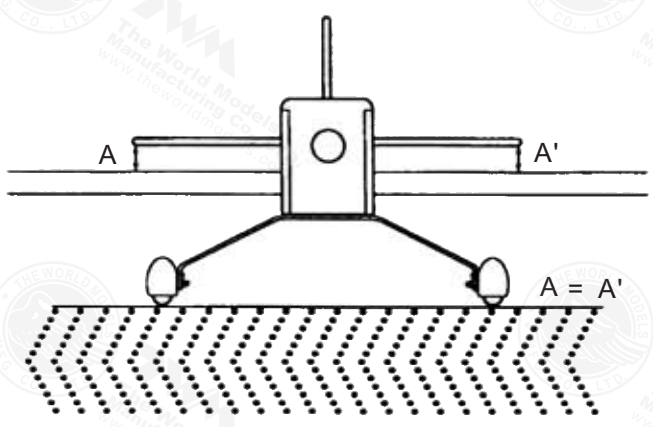
20 Canopy

PWA2.3 x 8mm Screw
 4
 d1.5xD6.5mm Silicon Grommet
 4



21 Wing Setting

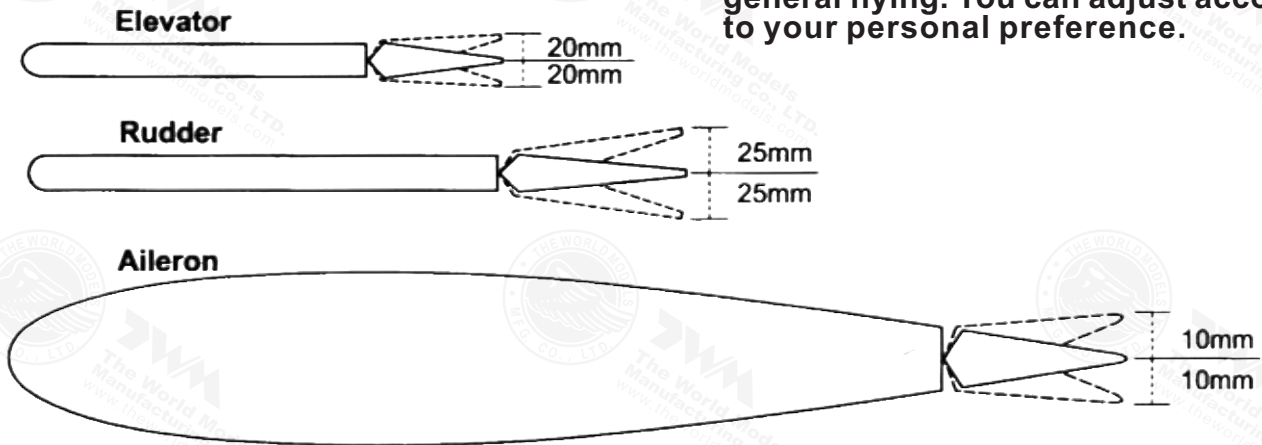
Adjust the wing and fuselage configuration as in the diagrams.



B = B'
 C = C'

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 80mm (3.15 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.



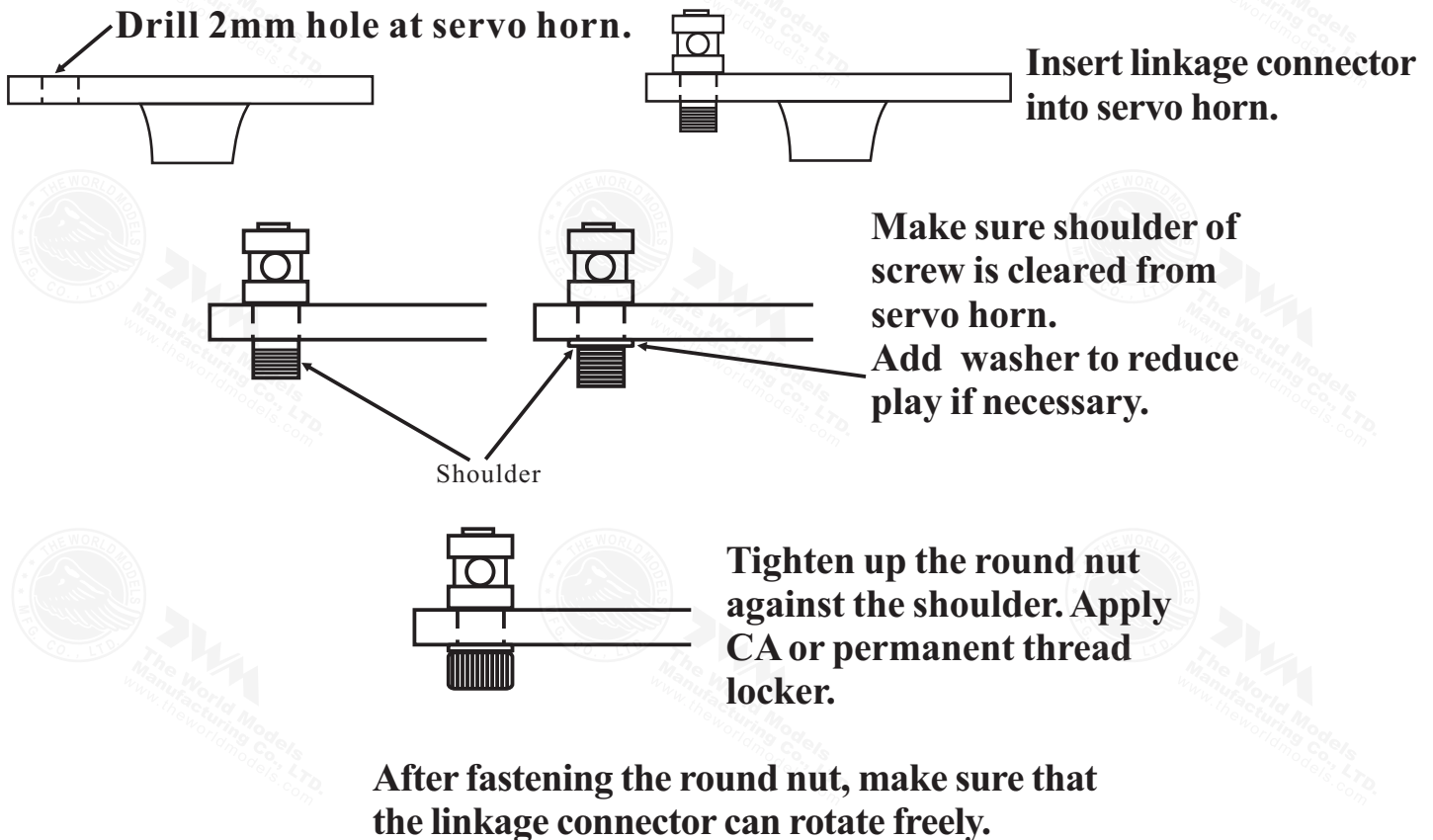
! Warning!

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.
- #**EXTRA SPORTS - 30S** is specially designed to be powered by 4C 0.48 -0.56 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

HW7111030 & HW7111060



Product Registration Form (US Customers)

We would like to share with you any relevant information regarding your model, including product news and free upgrade parts when applicable. Please fill in the following and send to Air Borne Models, 4749-K, Bennett Drive, Livermore, CA 94551. U. S. A .

1.Name: _____

2.Address: _____

3.Phone #: _____ e-mail: _____

4.Model: _____

Wing QC# _____ Fuselage QC# _____
(QC numbers are stamped on wing and fuselage)

5.Date of Purchase: _____

6.Store Name: _____

Please call AirBorne Models at 925 371 0922 for any assistance in filling this form. Thank you very much for purchasing our product.