

# SUPER SPORTS 40



**0.40-0.50 cu.in. displacement 2-cycle**  
**0.52 cu.in. displacement 4-cycle**  
**Radio required : 4 - channel radio w/ 4 standard servos**

## Specifications

<b>Wing Span</b>	<b>56.0in / 1420mm</b>
<b>Wing Area</b>	<b>565 sq in / 36.5 sq dm</b>
<b>Flying Weight</b>	<b>5.5 lbs / 2500 g</b>
<b>Fuselage Length</b>	<b>48.0 in / 1220mm</b>

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

# SUPER SPORTS 40

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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. 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.

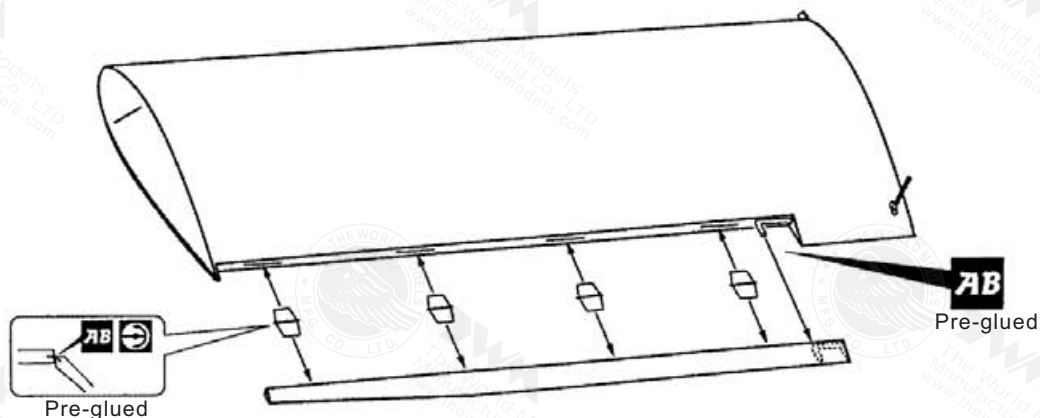


## Parts List

1. MAIN WING – 1 pair
  2. RING Ø2.3mm (For Aileron) – 2 pcs
  3. WOODEN Wing Joiner 6x16x84mm – 1 pc.
  4. PLYWOOD 3x45x90mm (Wing Protection) – 1 pc.
  5. PLYWOOD 3x10x25mm (For Aileron Servo) – 1 pc.
  6. FUEL TUBE Ø6x5mm – 4 pcs  
STRAPER – 2 pcs  
CLEVIS – 2 pcs  
PUSH ROD Ø1.8x100mm w/ Threads (For Aileron Servo) – 2 pcs
  7. MOUNTING PLATE 12x20mm – 4 pcs  
SCREW PA3x12mm – 8 pcs  
MAIN LANDING GEAR – 1 set
  8. MAIN WHEEL Ø58mm – 2 pcs  
COLLAR Ø3.1mm w/set screw – 4 sets
  9. FUSELAGE – 1 pc.  
STABILIZER & ELEVATOR – 1 set  
SCREW PM3x22mm – 1 pc.  
SCREW PM3x25mm – 1 pc.  
WASHER d3xD12mm – 2 pcs
  10. VERTICAL FIN & RUDDER – 1 set
  11. FUEL TANK 320cc – 1 set  
BALSA 6x6x77mm (For Fixing Fuel Tank) – 1 pc.
  12. SOCKET HEAD SCREW M3x22mm – 4 pcs  
WASHER d3xD7mm – 4 pcs  
ENGINE MOUNT PL5111030 – 1 set
  13. FRONT LANDING GEAR – 1 set  
COLLAR Ø4.1mm w/set screw – 4 sets  
WHEEL Ø58mm – 1 pc.  
STEERING ARM Ø4.1mm – 1 set
  14. SOCKET HEAD SCREW M3x25mm – 4 pcs  
WASHER d3xD7mm – 8 pcs  
M3 NUT – 8 pcs  
SPINNER Ø57mm – 1 set  
THROTTLE PUSH WIRE Ø1.2x365mm  
w/ Plastic Tube d2xD3x235mm – 1 set
  15. SCREW PB2x12mm – 3 pcs  
TRI-HORN M3x22mm (S) – 1 set  
CLEVIS – 1 pc.  
FUEL TUBE Ø6x5mm – 1 pc.  
PUSH ROD Ø1.8x745mm w/ Threads (For Rudder Servo) – 1 pc.
  16. SCREW PB2x14mm – 3 pcs  
TRI-HORN M3x14mm (S) – 1 set  
CLEVIS – 1 pc.  
FUEL TUBE Ø6x5mm – 1 pc.  
PUSH ROD Ø1.8x745mm w/ Threads (For Elevator Servo) – 1 pc.
  17. LINKAGE CONNECTOR Ø2.1mm – 2 sets
  18. FUEL TUBE Ø6x5mm – 2 pcs  
STRAPER – 2 pcs  
PUSH ROD Ø1.6x330mm (For Front Landing Gear)  
w/ Plastic Tube d2xD3x235mm – 1 set  
BALSA 6x6x80mm (For Fuselage Servos Stand) – 2 pcs  
PLYWOOD 3x82x95mm (For Fuselage Servos) – 1 pc.  
SPONGE 70x75x75mm (For Radio Equipment) – 1 pc.
  19. SCREW PWA2.3x8mm – 6 pcs  
CANOPY – 1 pc.  
SILICON GROMMET d1.5xD6.5mm (For Canopy) – 6 pcs  
PILOT 063A(063B) – 1 set  
DOUBLE-SIDED TAPE 8x1000mm – 1 pc.
  20. SOCKET HEAD SCREW M3x22mm – 2 pcs  
WASHER d3xD12mm – 2 pcs
  21. DECALS A049DEC – 1 set
- COVERING:-  
**LIGHTEX SGX 100 WHITE**  
**LIGHTEX SGX 312 BRIGHT RED**  
**LIGHTEX SGX 251 SKY BLUE**  
**LIGHTEX SGX 350 CORSAIR BLUE**

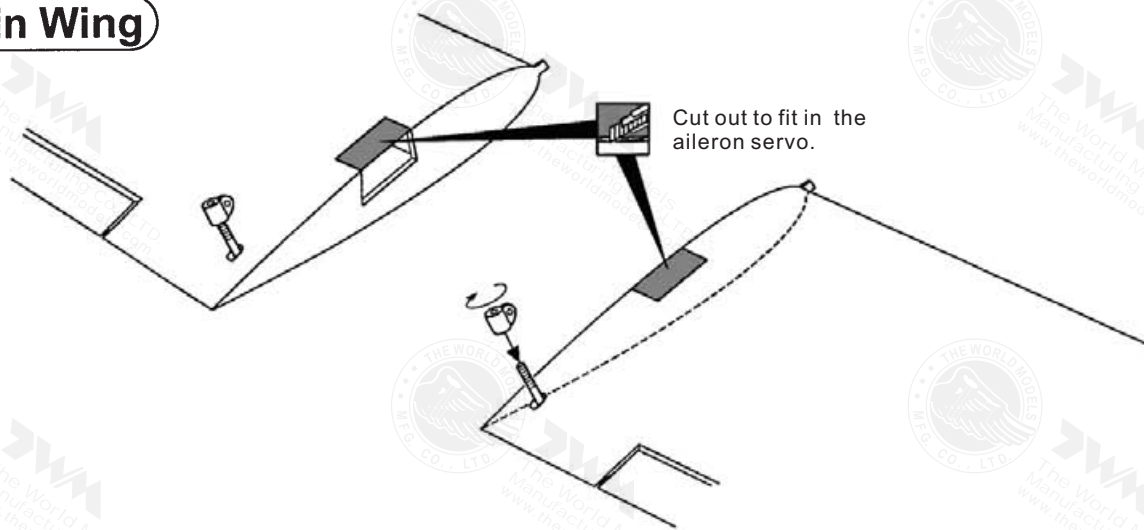


## 1 Main Wing

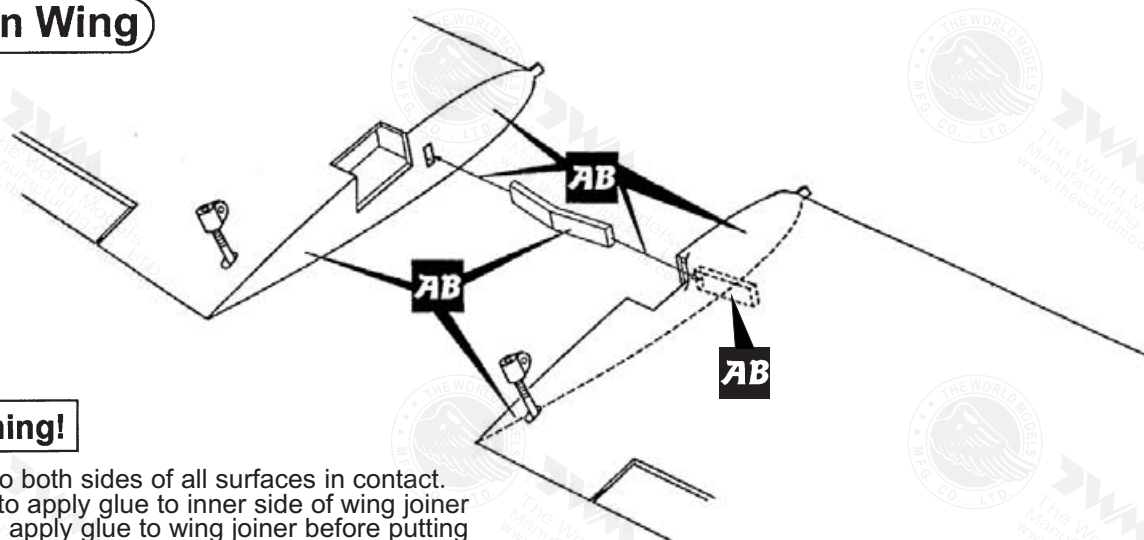


**L/R**

## 2 Main Wing



## 3 Main Wing

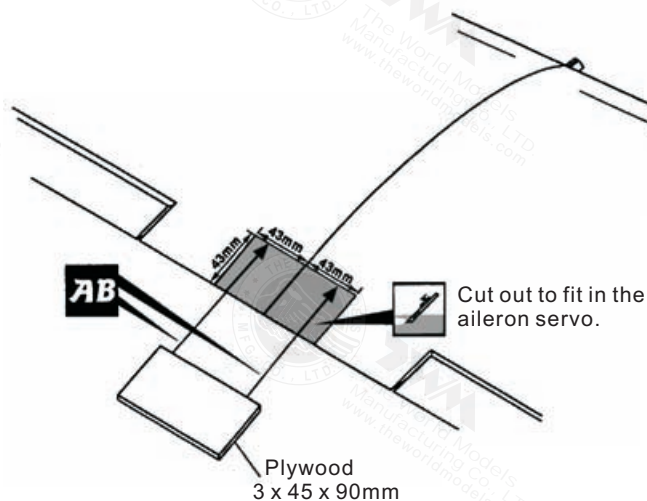


### ! Warning!

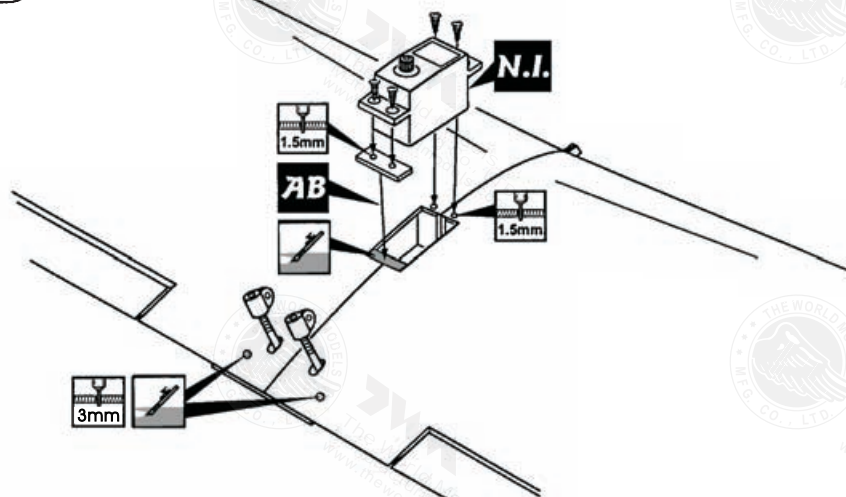
Apply glue to both sides of all surfaces in contact. Use a stick to apply glue to inner side of wing joiner sleeve, and apply glue to wing joiner before putting them together. Wing joiner not glued properly will lead to wing failure and plane crash.

## 4 Main Wing

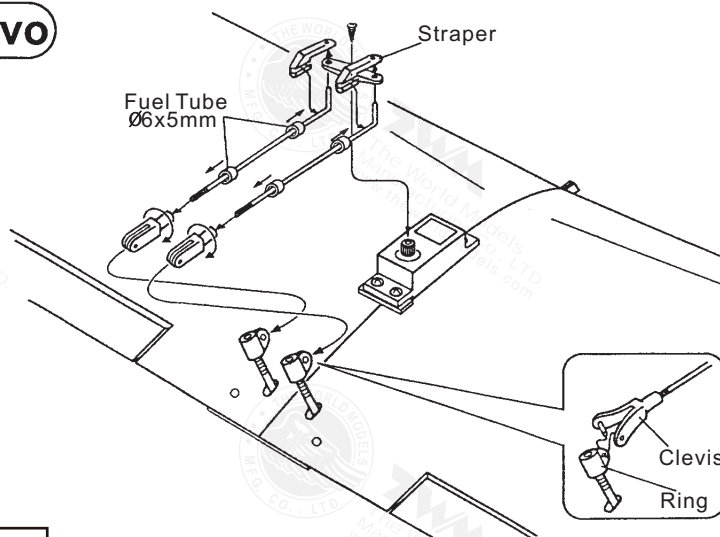
### ● Bottom View



## 5 Aileron Servo



## 6 Aileron Servo

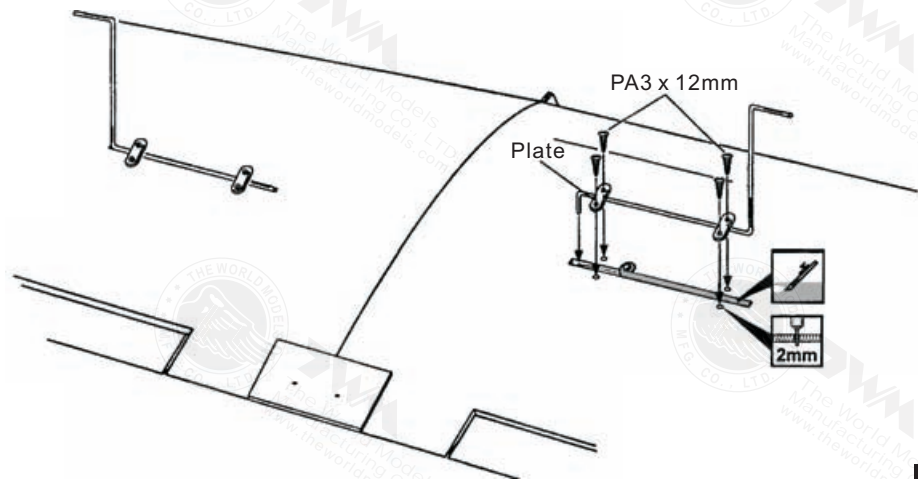


## 7 Main Landing Gear

PA3 x 12mm Screw



8



L/R

## 8 Main Landing Gear

3mm Set Screw

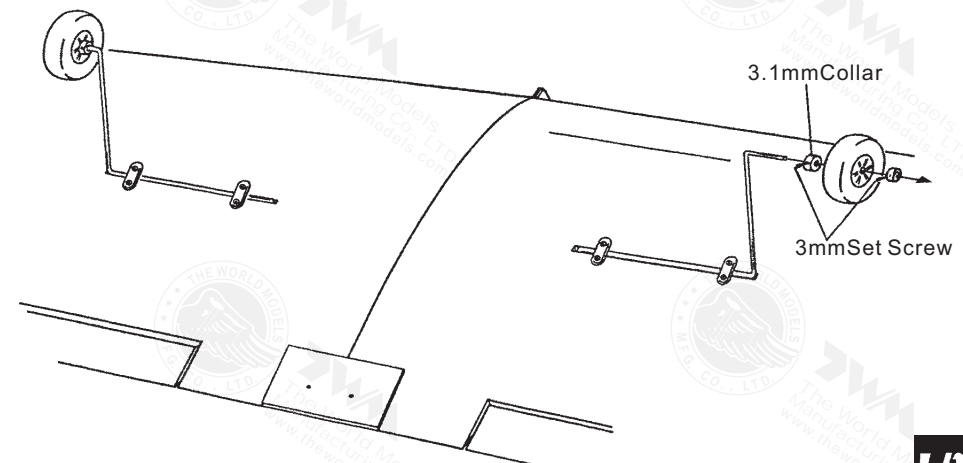


4

3.1mm Collar



4



L/R

## 9 Stabilizer & Elevator

PM 3 x 22mm Screw



1

PM 3 x 25mm Screw

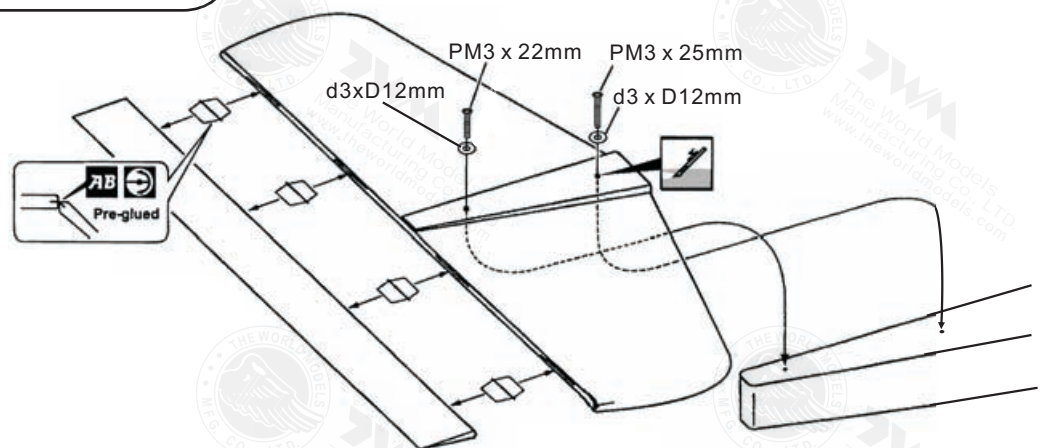


1

d3 x D12mm Washer



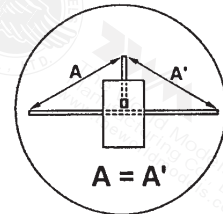
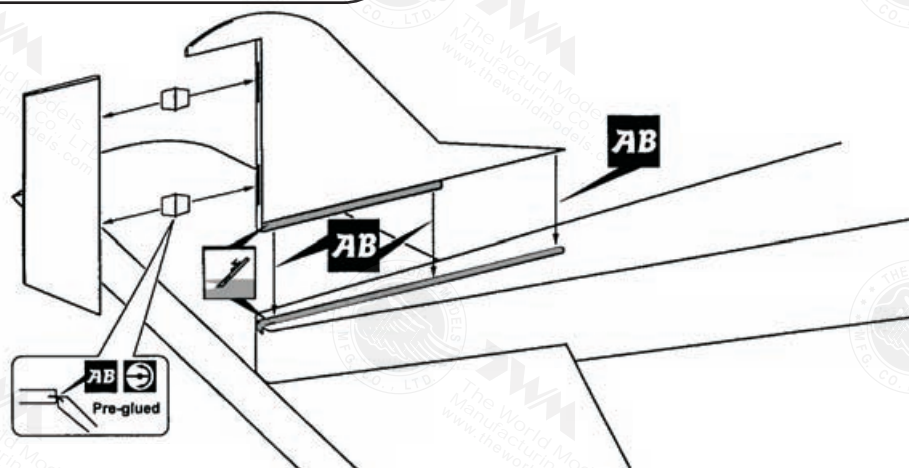
2



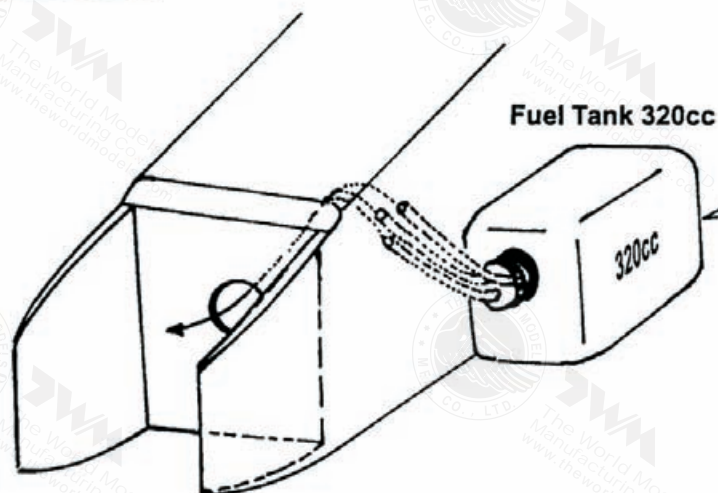
● Bottom View



## 10 Vertical Fin & Rudder



## 11 Fuel Tank



Install Balsa 6 x 6 x 77 mm  
(For fixing fuel tank)

Fuel Tank  
320cc

● Bottom View

## 12 Engine Mount

M3x22mm Socket Head Screw



4

3mm Washer



4

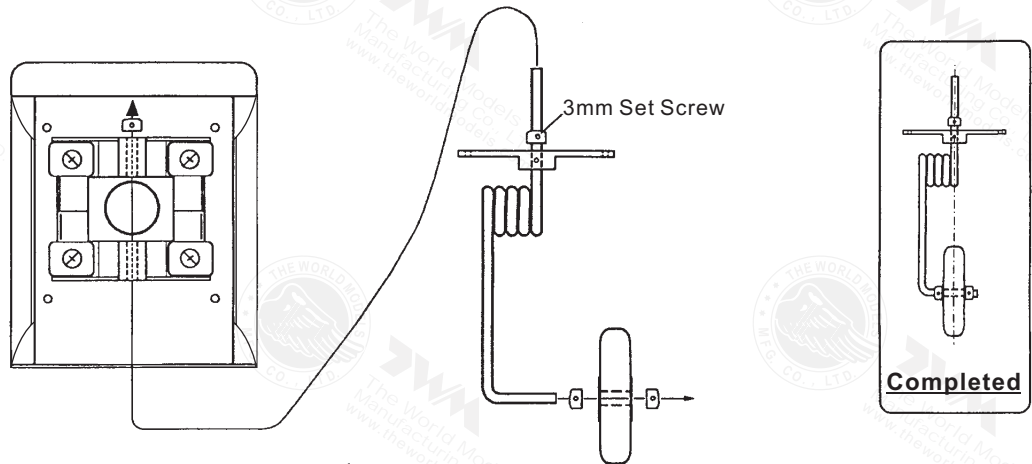
Engine Mount  
PL 5111-030

M3 x 22mm

3mm

## 13 Front Wheel

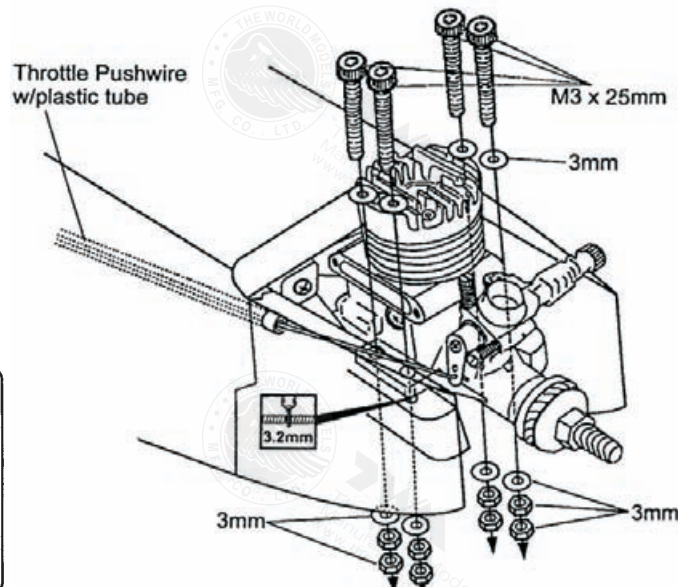
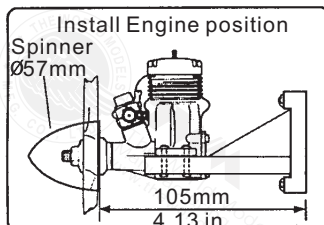
3mm Set Screw	4
4.1mm Collar	4



● Front View

## 14 Engine

M3x25mm Socket Head Screw	4
3mm Washer	8
3mm Nut	8



If the engine throttle control is on the opposite side, install the throttle pushwire accordingly.

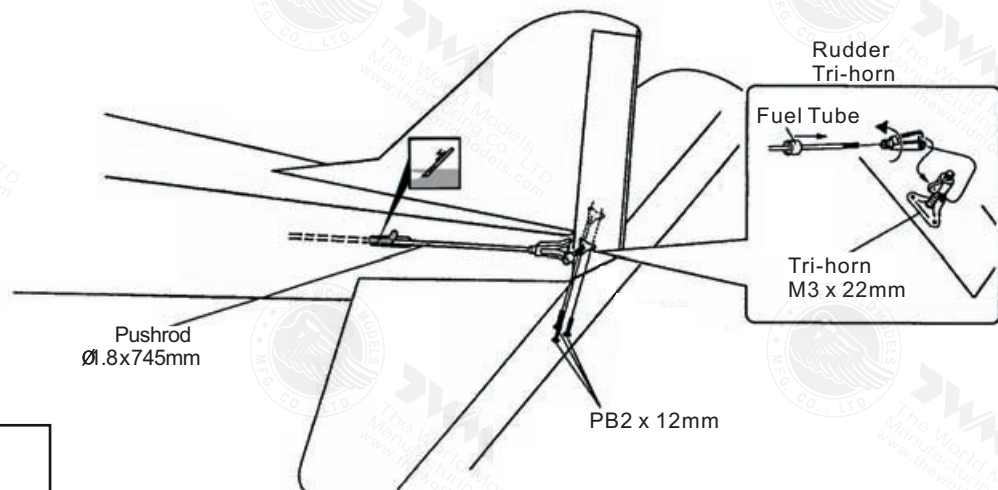
Install the throttle servo with the drive pinion on the same side of throttle pushwire.

Raise throttle servo if necessary to provide clearance between throttle and front wheel pushwires

## 15 Rudder Pushrod

PB 2x12mm Screw	3
-----------------	---

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



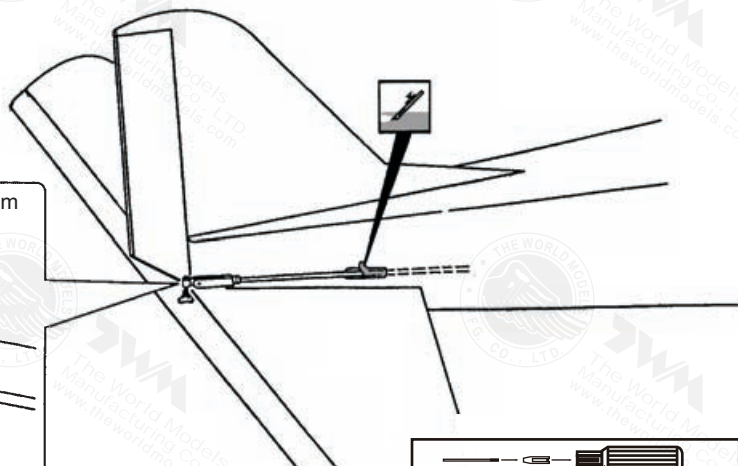
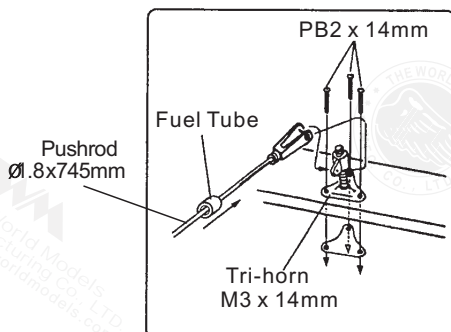


## 16 Elevator Pushrod

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

PB 2x14mm Screw  
3

Elevator  
Tri-horn



TWM P18210010  
CLEVIS WRENCH

## 17 Servo Set

### LINKAGE CONNECTOR

3 x 3mm Set Screw

2

Linkage Connector

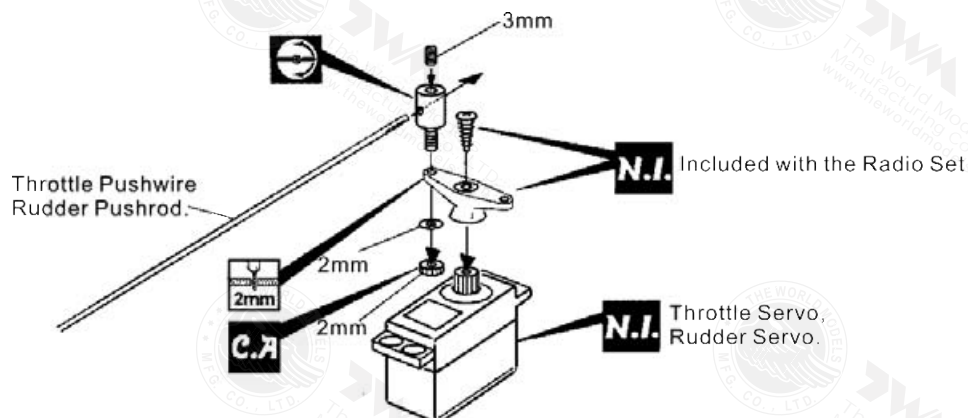
2

2mm Nut

2

2mm Washer

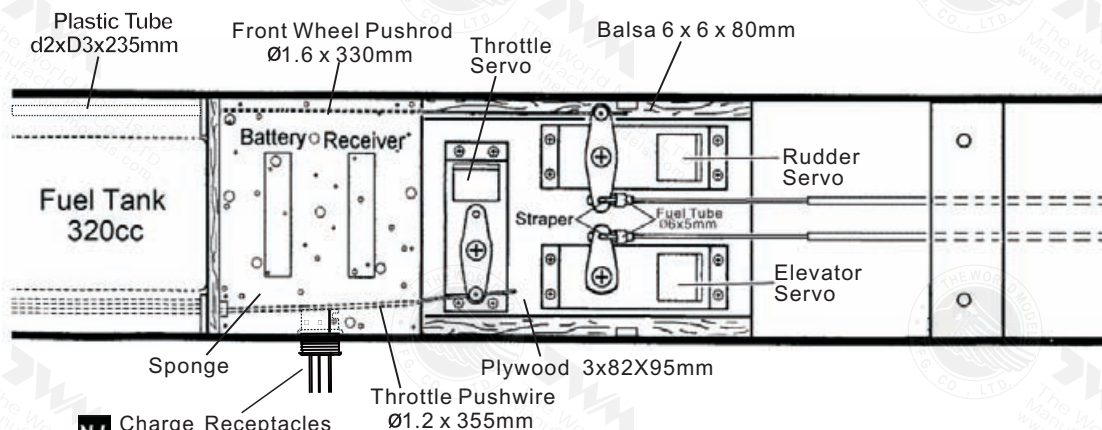
4



! Please refer to attached sheet for linkage connector installation.

## 18 Radio Equipment

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



● Bottom View

## 19 Canopy

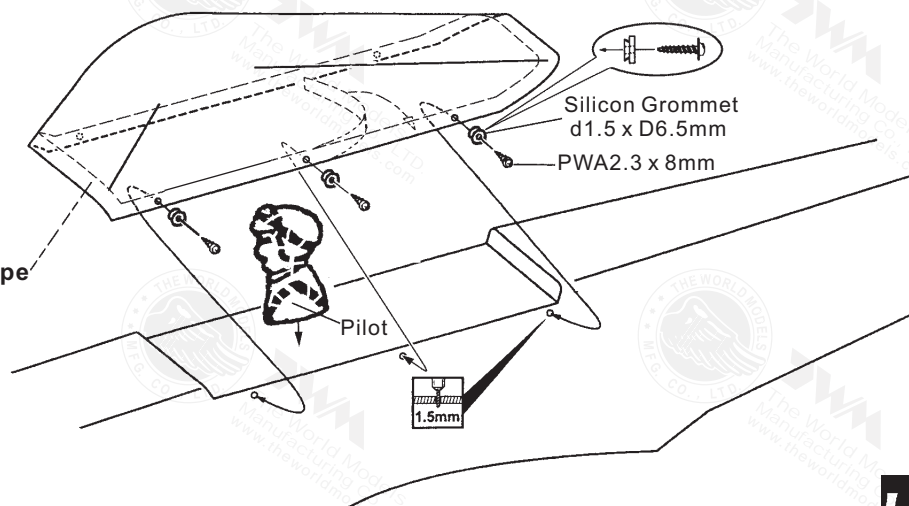
PWA2.3 x 8mm Screw

6

d1.5 x D6.5mm Silicon Grommet

6

● Apply double-sided tape



L/R

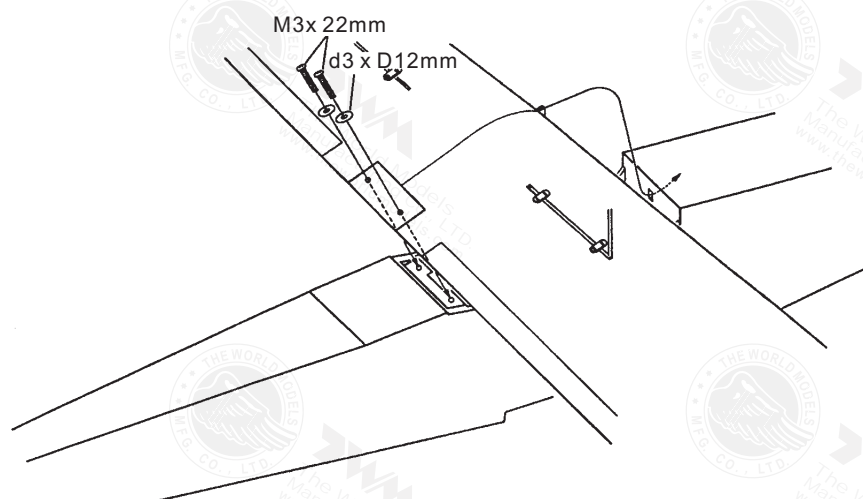
## 20 Main Wing

M3 x 22mm Socket Head Screw

2

d3 x D12mm Washer

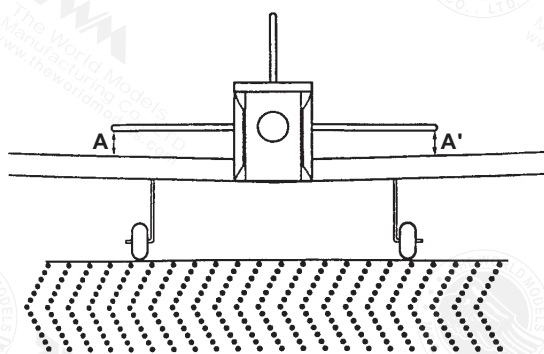
2



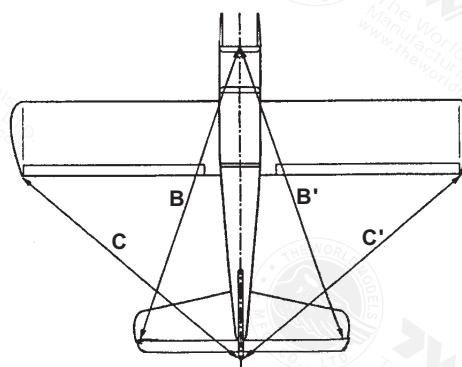
● Bottom View

## 21 Wing Setting

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

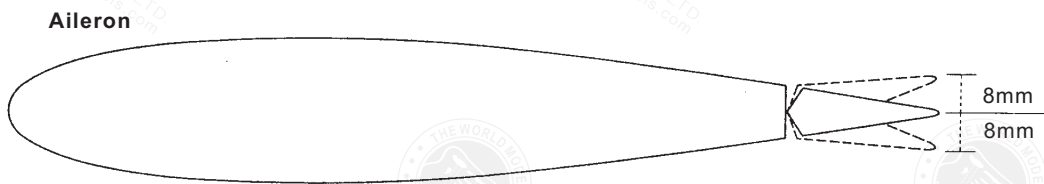
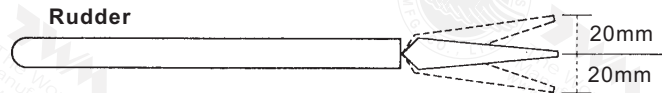
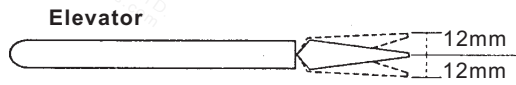


A = A'  
B = B'  
C = C'



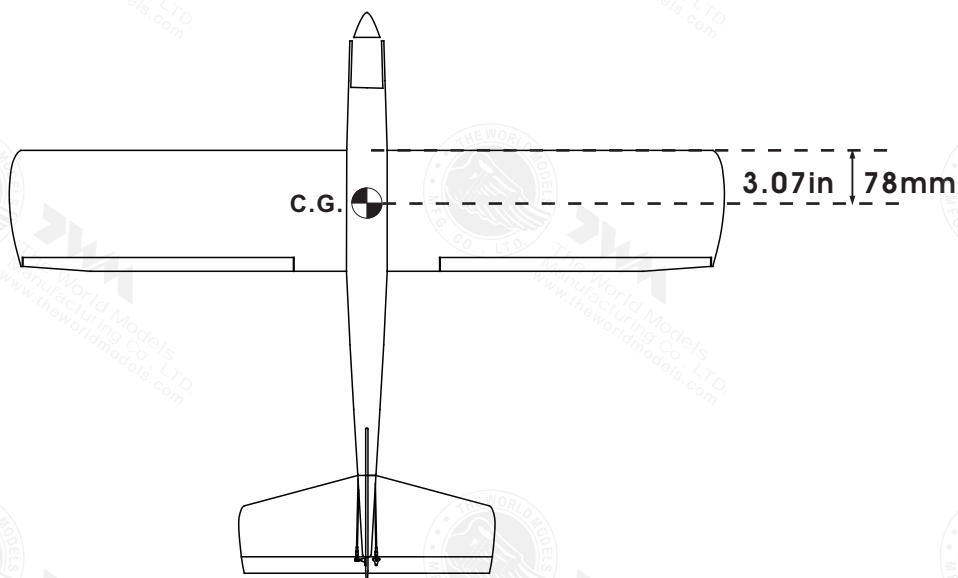
## 22 Control Throws

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 78mm (3.07 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.





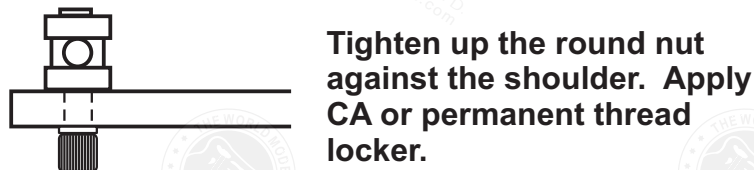
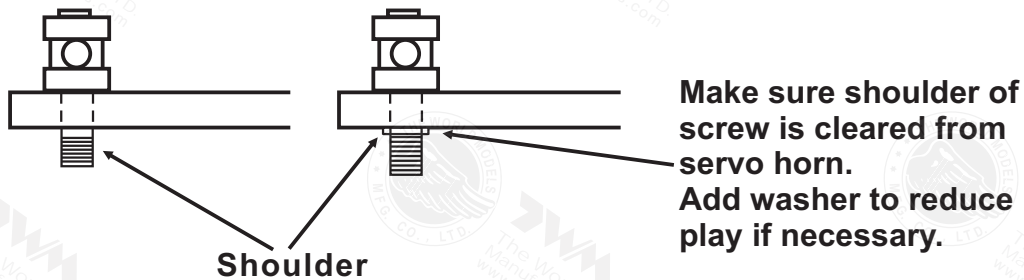
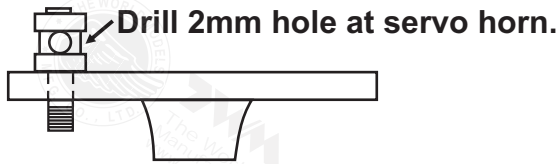
## **! Warning!**

### **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.**
- # ***SUPER SPORTS 4C* is specially designed to be powered by 2C 0.40 - 0.50 or 4C 0.52 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.**

# LINKAGE CONNECTOR

## HW7111050 & HW7111060



After fastening the round nut, make sure that the linkage connector can rotate freely.

## 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 AirBorne Models, 4749-K, Bennett Drive, Livermore, CA 94551 USA.

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.



# Optional Parts

## ( ACCESSORIES)

### 180mm Extension

Code No.	Size	Package
----------	------	---------

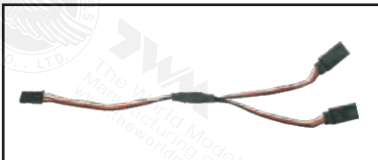
KW0011800 180mm 1 set



### 180mm Y-Cord

Code No.	Size	Package
----------	------	---------

KW0021800 180mm 1 pc



For park flyers of small electric models

### Charge Receptacles

Code No.	Size	Package
----------	------	---------

KP0041300



### Field Stand

Code No.	Size	Package
----------	------	---------

MS9111430 600 x 240 x 310mm 1 pc



### Fuel Filler

Code No.	Size	Package
----------	------	---------

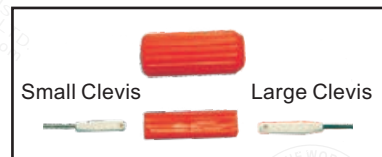
PL8110030 15 x 22 x 49mm 1 x 1 pc



### Clevis Wrench

Code No.	Size	Package
----------	------	---------

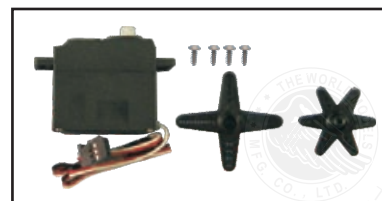
PL8210010 1 set



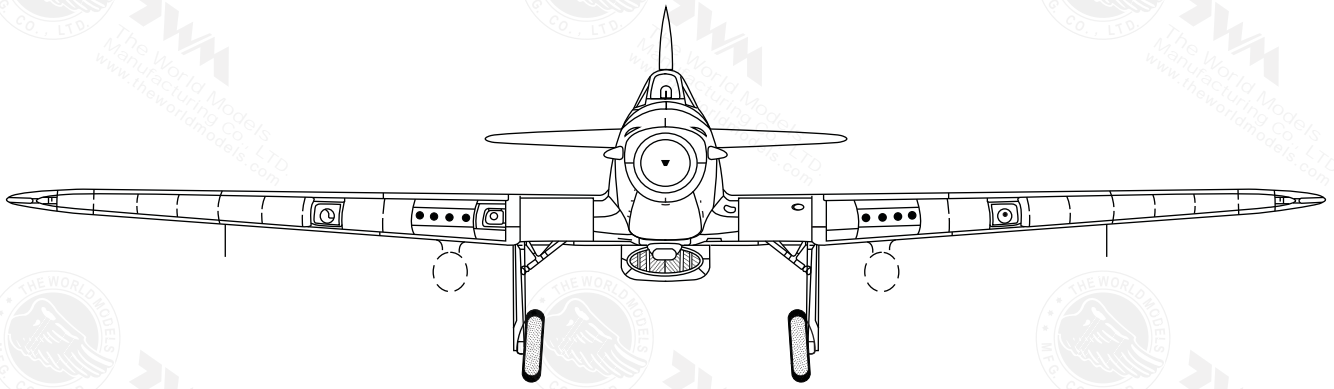
Special tool for clevis installation.  
Suitable for standard and small (EP) clevis.

### Standard Servo

Code No SV4031
----------------



Speed : 0.17 sec / 60° @4.8V  
0.14 sec / 60° @6.0V  
Torque : 3.2kg.cm / 44.8 oz - in @4.8V  
4.1kg.cm / 57.4 oz - in @6.0V  
Size : 40.6 x 20 x 37mm /  
1.60 x 0.79 x 1.46 in  
Weight : 39.4 g / 1.39 oz



**Ducted Fan**

**Pattern**

**Warbirds**

**Funfly**

**Scale**

**Electric**

**Sports**

**Glider**

**Trainer Boat**

**Accessories**

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