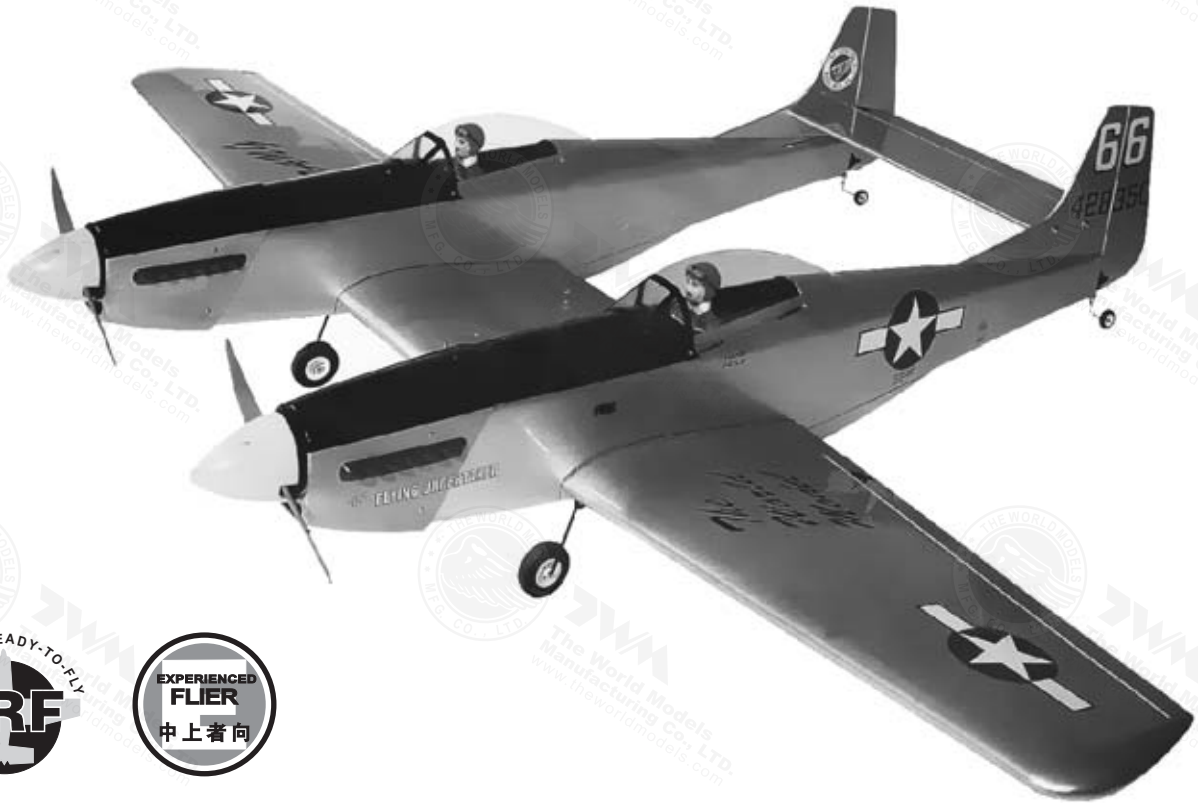


P-82 MUSTANG-40



2x2-stroke 0.40-0.46 cu. in. displacement 2-stroke
Requires : 6-channel radio w/ 8 standard servos
and 1 retract servo

Specifications

Wing Span	70.5 in / 1790 mm
Wing Area	734 sq in / 47.4 sq dm
Flying Weight	9.5 lbs / 4300 g
Fuselage Length	49.6 in / 1260 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
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www.theworldmodels.com

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

P-82 MUSTANG-40

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BEFORE YOU BEGIN	P. 1
PARTS LIST	P. 2
ASSEMBLY	P. 3 - 11
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 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 : -



Apply epoxy glue.



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



Apply thread locker



Must be purchased separately!



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.

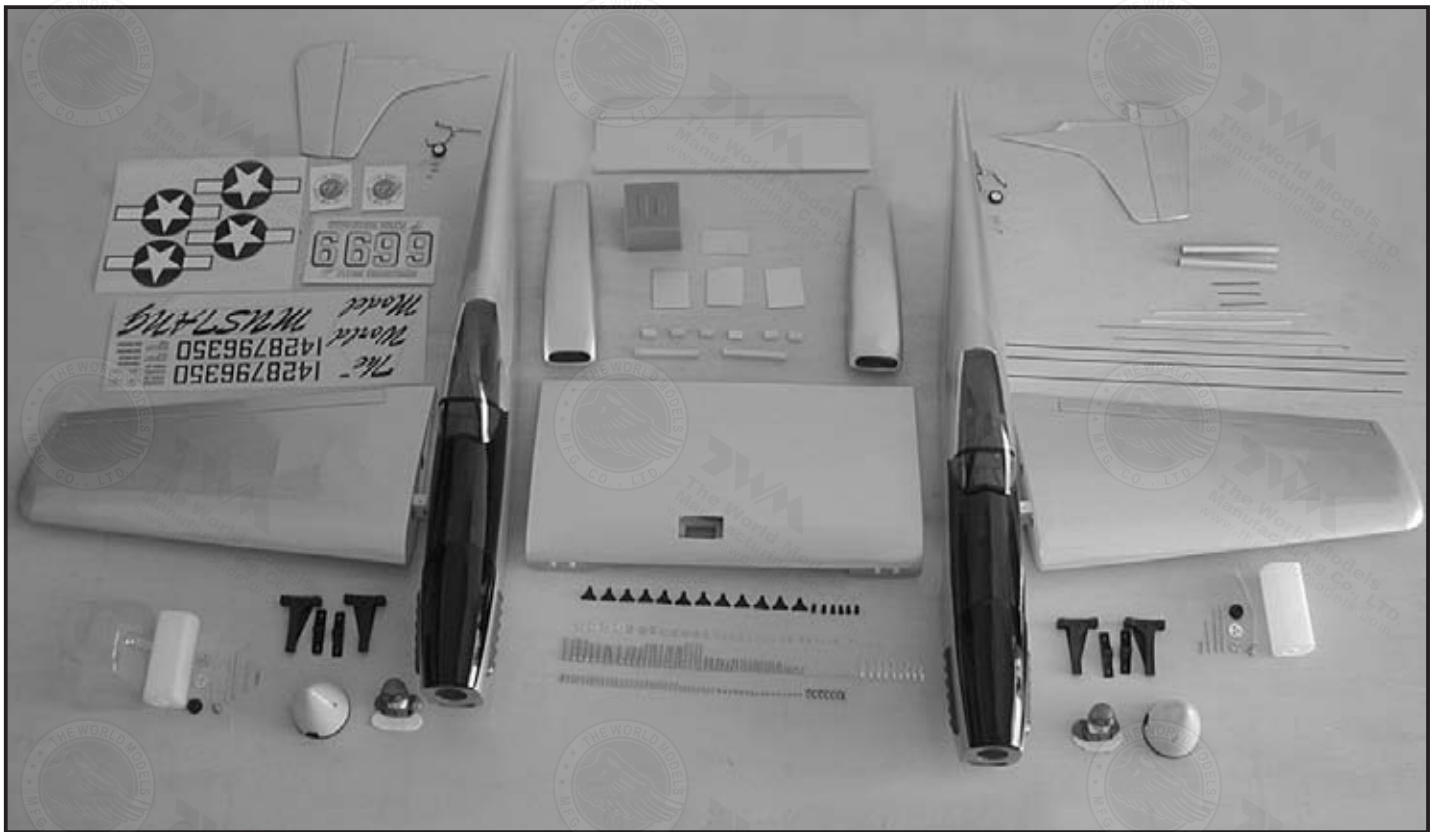


Pay close attention here!



Warning!

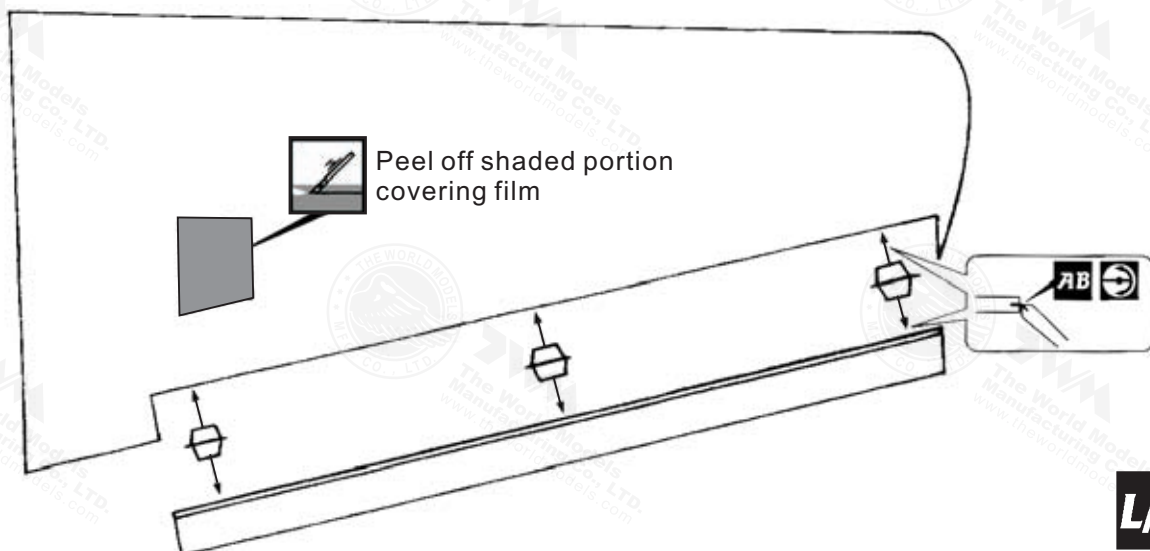
Do not overlook this symbol!



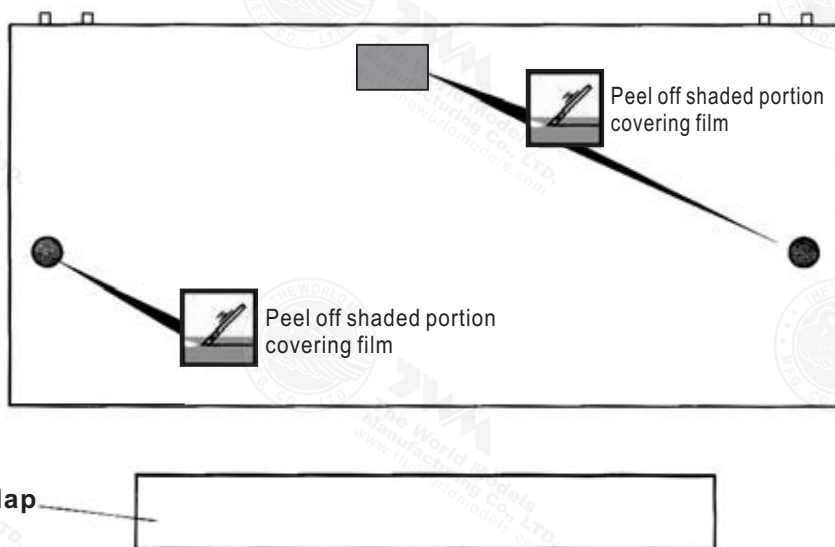
Parts List

1. FUSELAGE & COVER -- 2sets
2. MAIN WING -- 1set
3. STABILIZER & ELEVATOR -- 1set
4. VERTICAL FIN & RUDDER -- 2sets
5. CANOPY -- 2pcs
6. PILOT (#PCOO1063A) -- 2pcs
7. COWLING -- 2pcs
TRANSPARENT DUMMY COWLING -- 1pc
8. SPINNER Ø82mm -- 2pcs
9. ENGINE MOUNT PL5111-050 -- 2sets
10. FUEL TANK 320cc -- 2sets
11. SPONGE (For Radio Equipment) -- 1pc
12. TAIL LANDING GEAR -- 2sets
13. MAIN WHEEL D55xd21x18mm -- 2pcs
14. TAIL WHEEL D25x12.5x9mm -- 2pcs
15. PUSHWIRE:--
METAL ROD Ø1.7x70mm w/Threads (For Flap Servo) -- 1pc
METAL ROD Ø1.7x80mm w/Threads (For Aileron Servo) -- 2pcs
METAL ROD Ø1.7x650mm w/Threads
(For Elevator & Rudder Servo -- 3pcs
16. THROTTLE PUSHWIRE Ø1.2x380mm
w/Plastic tube d2xD3x250mm --2sets
17. WOODEN PARTS:--
BALSA 8x12x20mm (For Aileron & Flap Servo) -- 6pcs
BALSA 10x10x98.5mm (For Fixing Fuel Tank) -- 2pcs
PLYWOOD 2x58x71mm (For Flap Servo) -- 1pc
PLYWOOD 2x58x74mm (For Aileron Servo) -- 2pcs
18. PLASTIC:--
CLEVIS -- 6pcs
PLATE 0.6x46x77mm (Landing Gear Cover) --1pcs
STRAPER -- 3pcs
TRI- HORN 3x9mm (L) -- 3sets
TRI-HORN 3x14mm (L) -- 3sets
19. METAL PARTS:--
ADJUSTER 2.1mm -- 7sets
ALUMINIUM ROD d13xD16x161mm -- 2pcs
COLLAR 2.1mm w/set screw -- 4pcs
COLLAR 4.1mm w/set screw -- 2sets
NUT 3mm -- 16pcs
SCREW PA3x12mm -- 4pcs
SCREW PM2x12mm -- 6pcs
SCREW PM2x16mm-- 12pcs
SCREW PM3x13mm -- 2pcs
SCREW PM3x16mm -- 4pcs
SCREW PM3x30mm -- 8pcs
SCREW PM3x35mm -- 4pcs
SCREW PM4x25mm -- 8pcs
SCREW PM4x30mm -- 4pcs
SCREW PWA2x8mm -- 8pcs
SCREW PWA2X12mm --12PCS
SCREW PWA2.3x12mm -- 8pcs
WASHER d3xD7mm -- 18pcs
WASHER d3xD12mm -- 8pcs
WASHER d4xD9mm -- 8pcs
WASHER d4xD15mm -- 4pcs
20. FUEL TUBE Ø6x6mm -- 9pcs
21. FUSELAGE STICKER & LOGO -- 1set

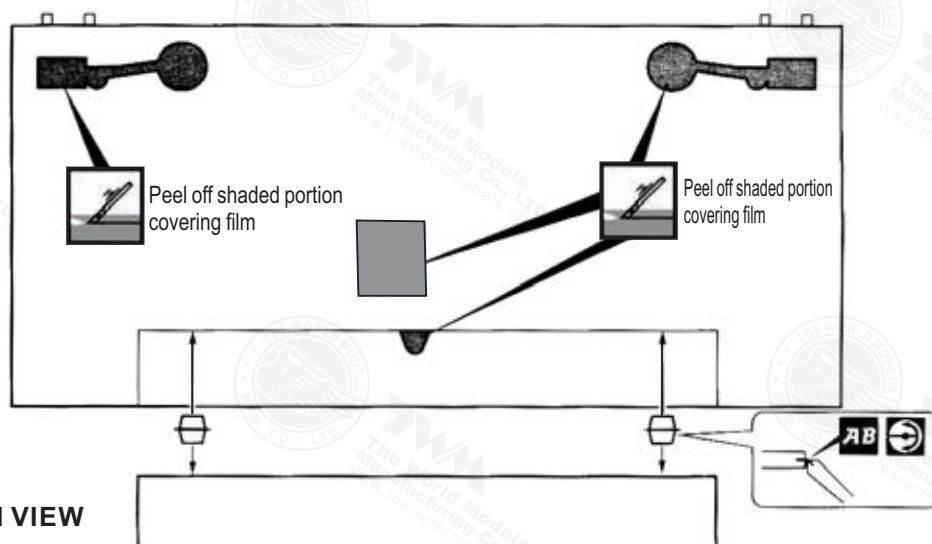
1 Main Wing



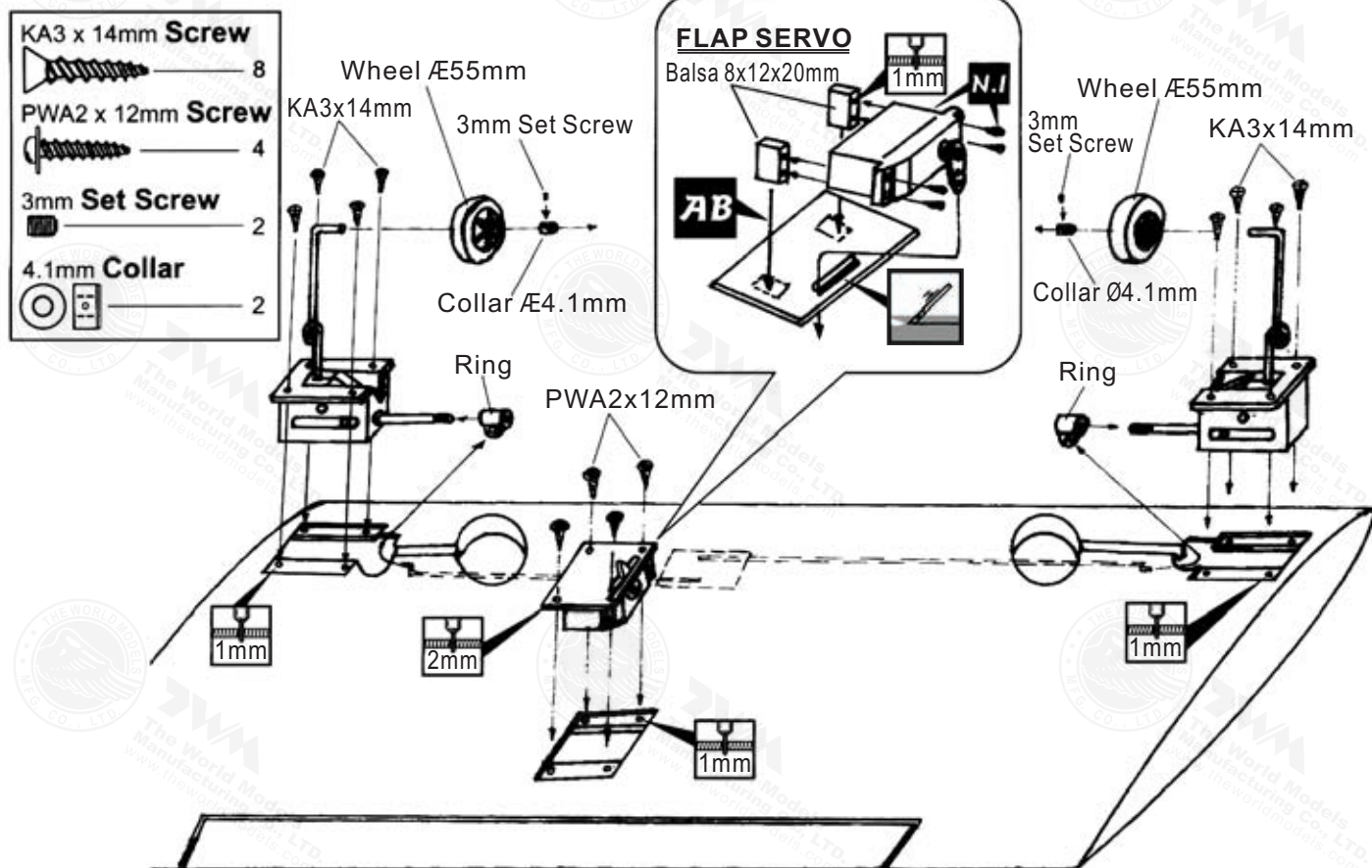
2 Main Wing



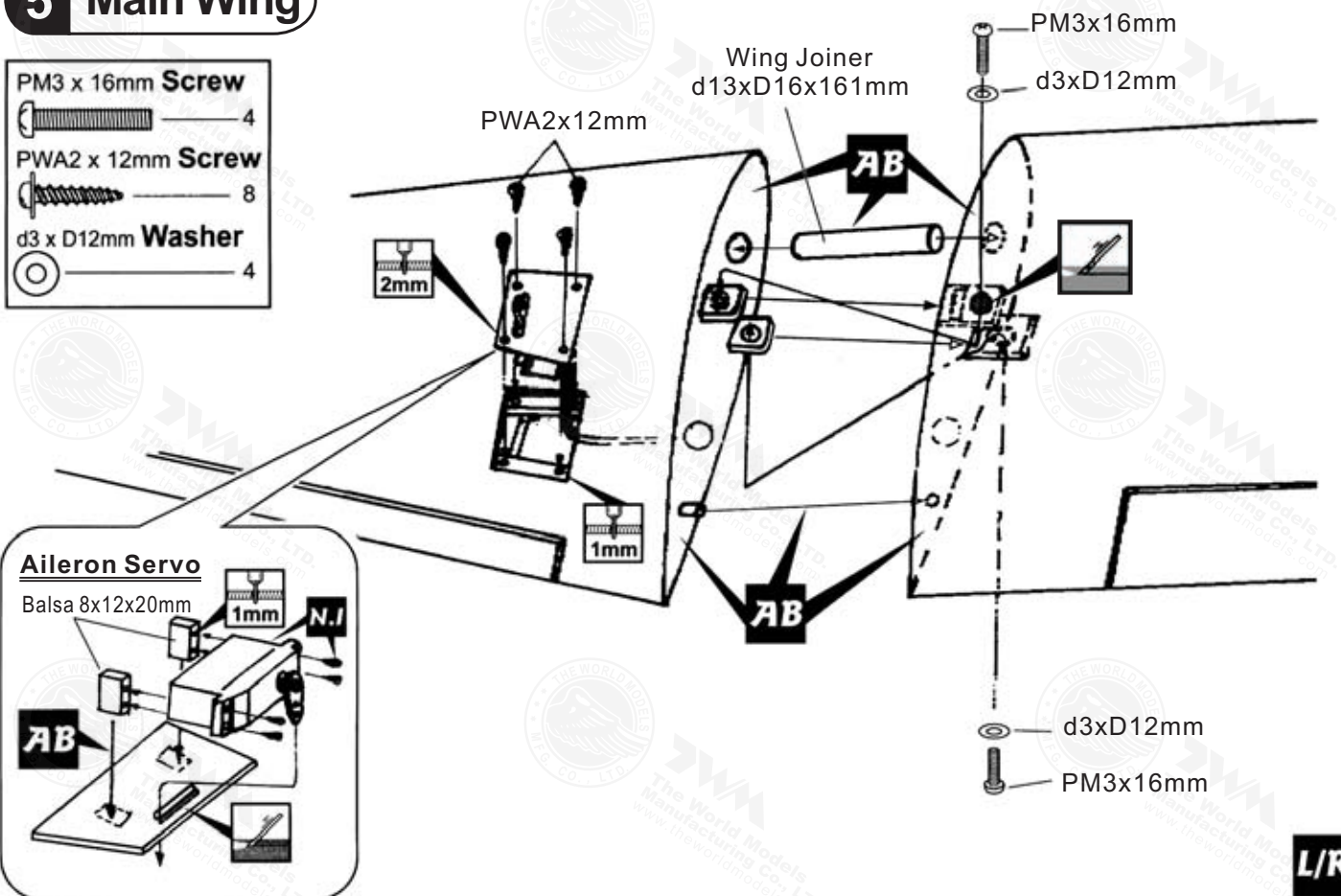
3 Main Wing



4 Landing Gear

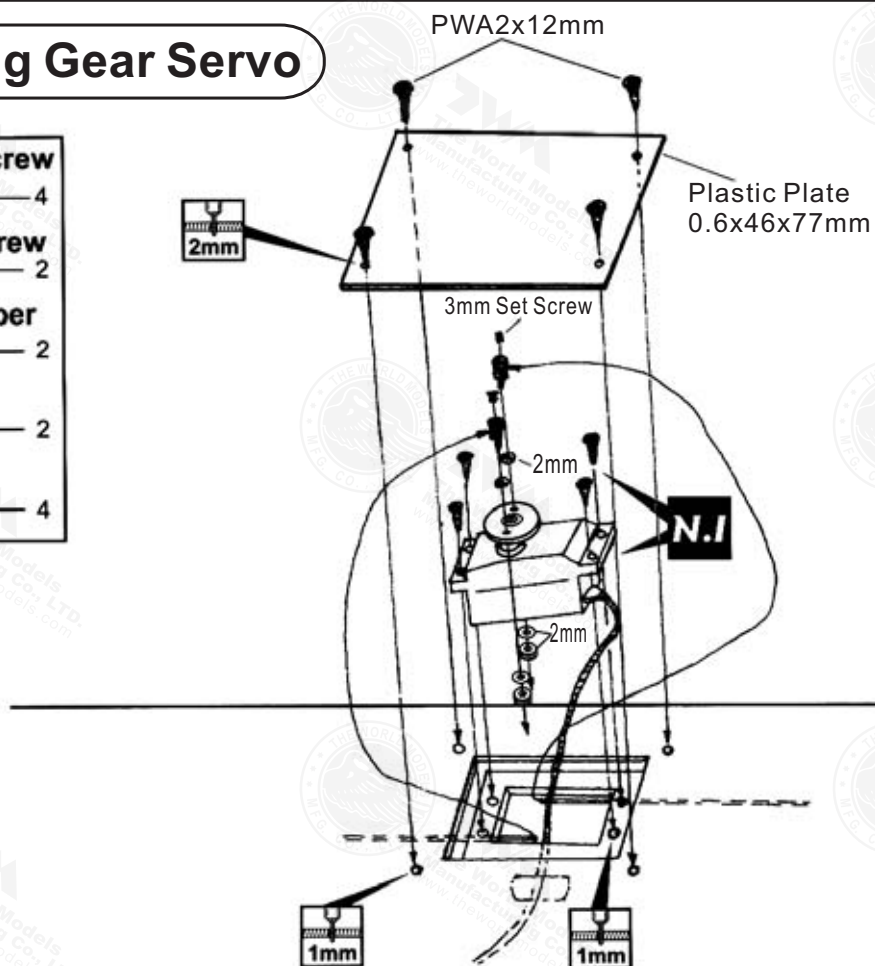


5 Main Wing



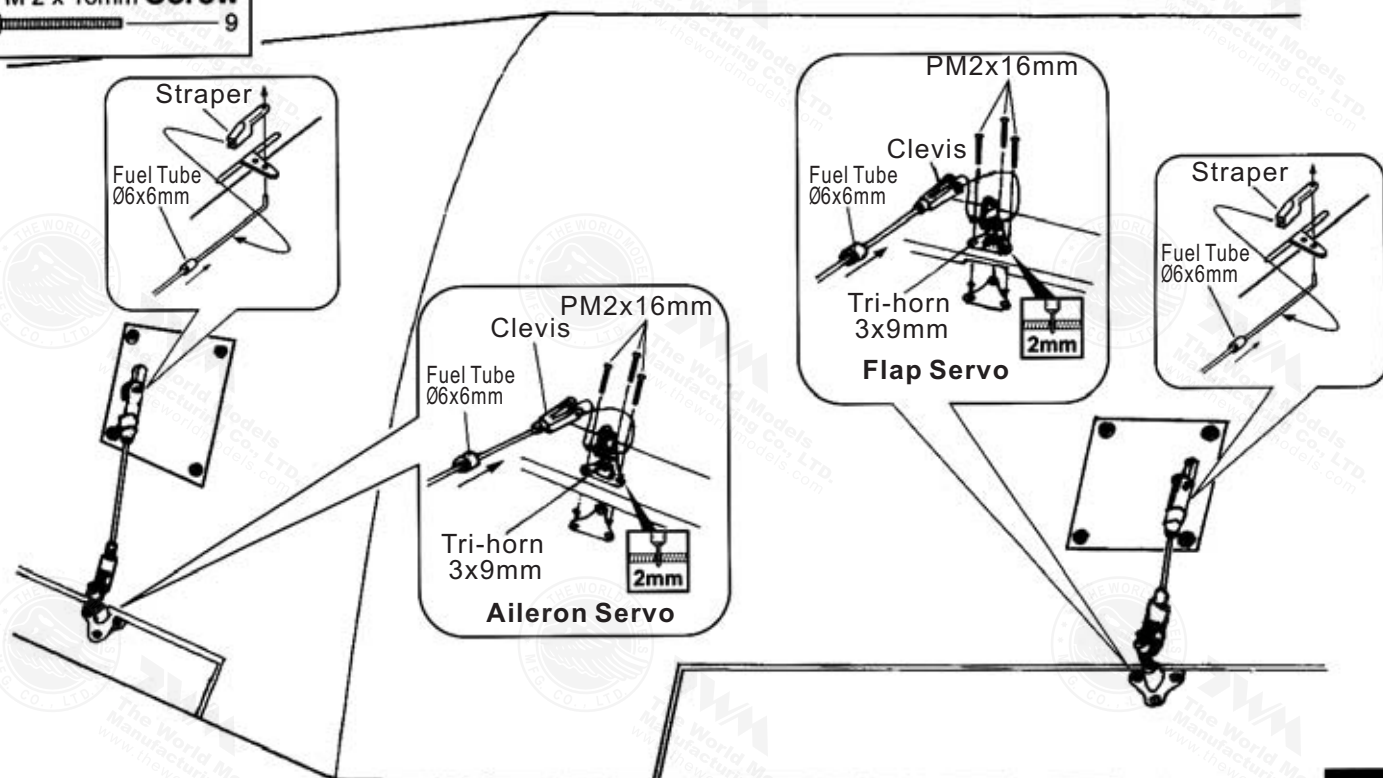
6 Landing Gear Servo

PWA2 x 12mm Screw	4
3 x 3mm Set Screw	2
Linkage Stopper	2
2mm Nut	2
2mm Washer	4



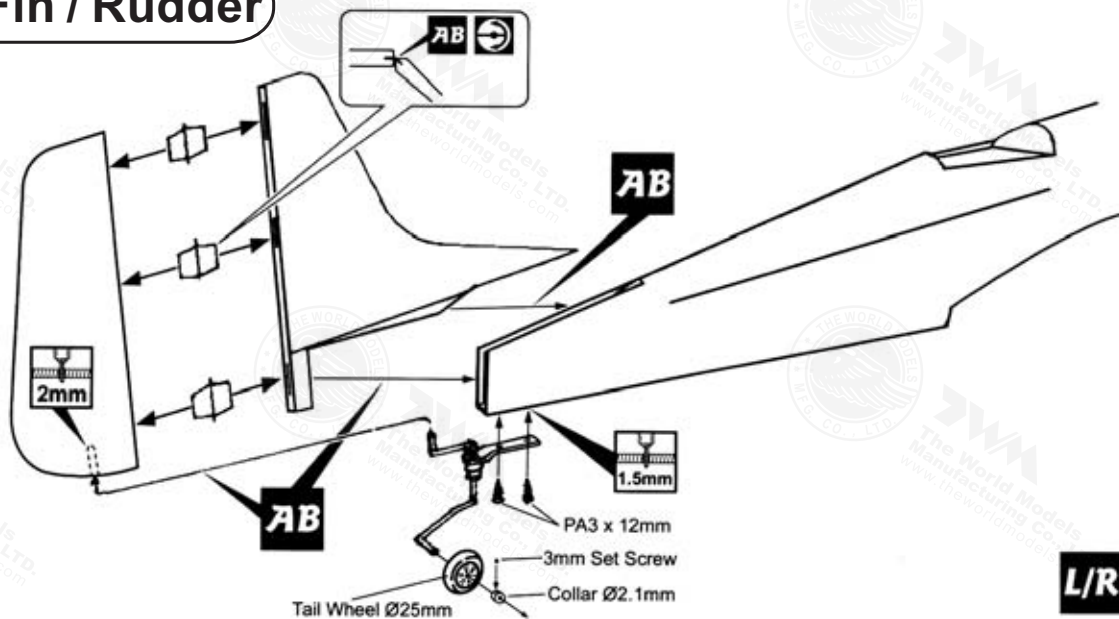
7 Main Wing

PM 2 x 16mm Screw	9
--------------------------	---

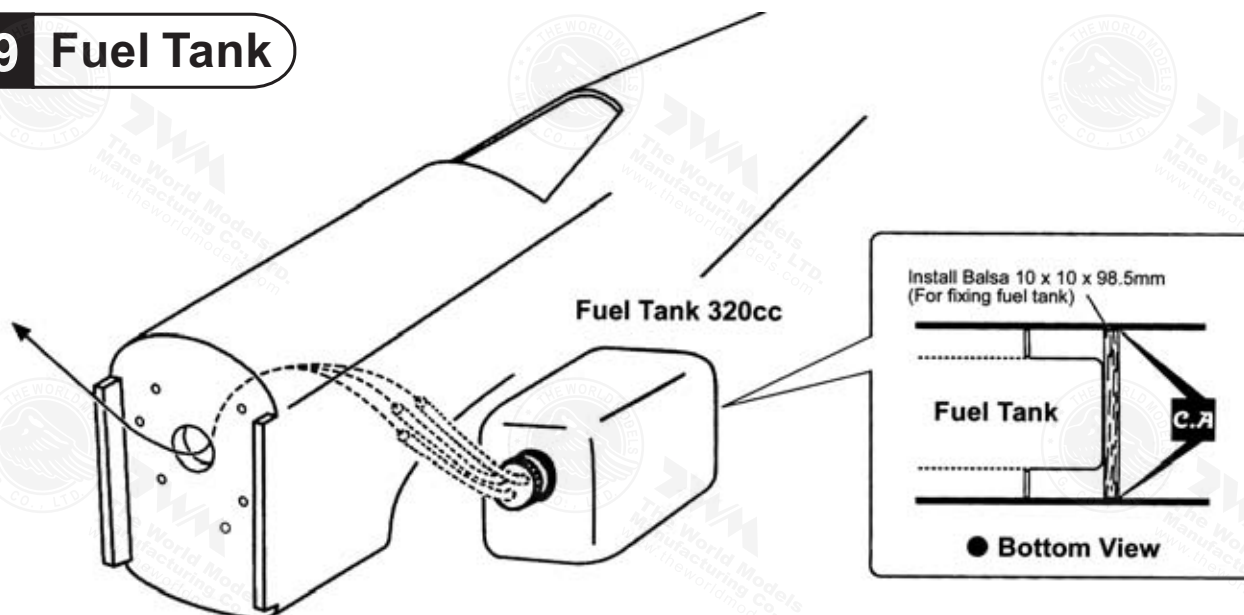


8 Vertical Fin / Rudder

PA3 x 12mm Screw	4
3mm Set Screw	2
2.1mm Collar	2

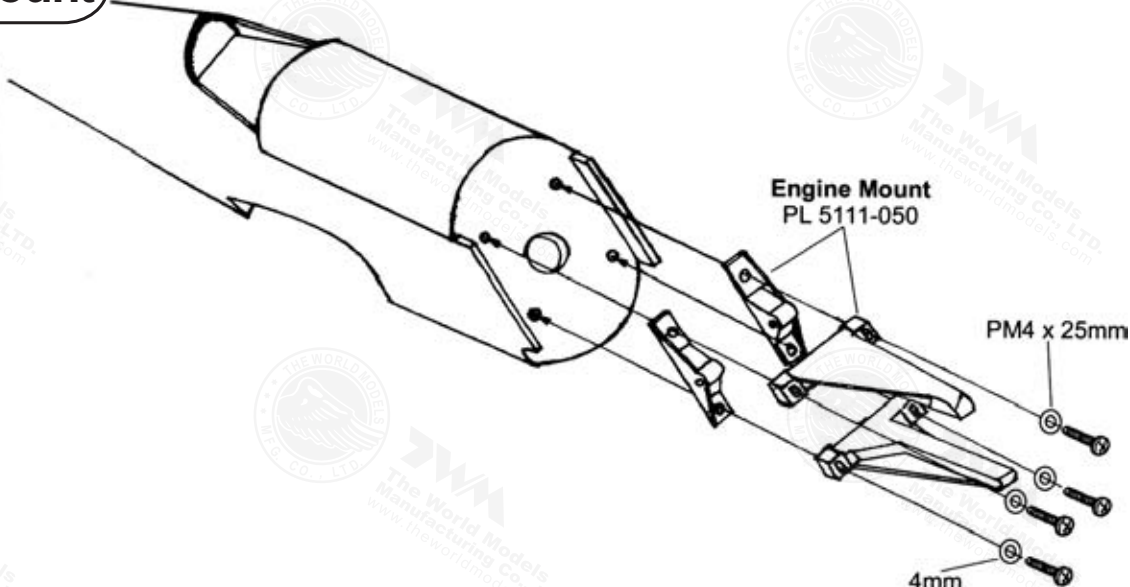


9 Fuel Tank



10 Engine Mount

PM4 x 25mm Screw	8
d4 x D9mm Washer	8



11 Engine

PM3 x 30mm **Screw**

3mm **Washer**

3mm **Nut**

3mm **Nut**

3mm **Nut**

3mm **Nut**

3mm **Nut**

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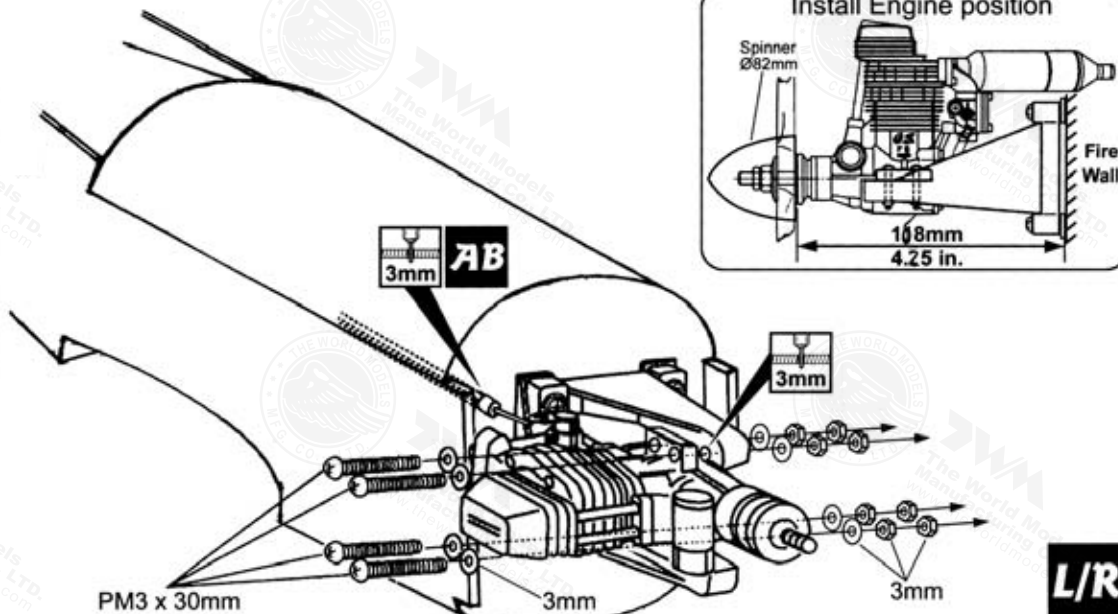
3mm **Nut**

3mm **Nut**

3mm **Nut**

3mm **Nut**

3mm **Nut**



12 Cowling

PWA2.3 x 12mm **Screw**

PWA2.3 x 12mm **Screw**

PWA2.3 x 12mm **Screw**

PWA2.3 x 12mm **Screw**

PWA2.3 x 12mm **Screw**

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PWA2.3 x 12mm **Screw**

PWA2.3 x 12mm **Screw**

PWA2.3 x 12mm **Screw**

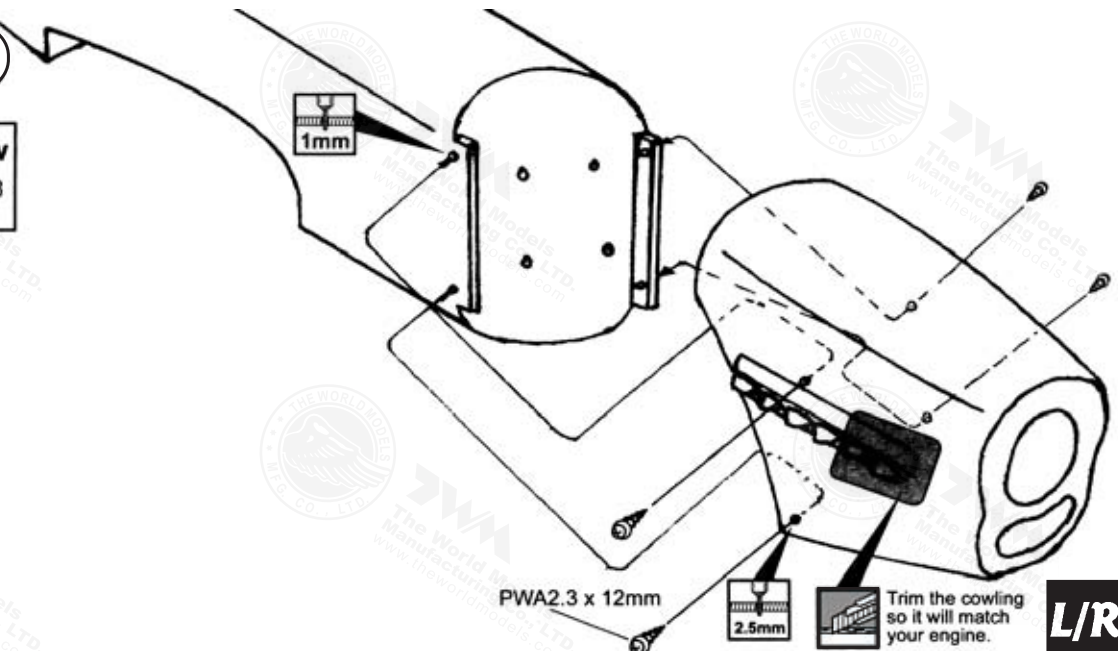
PWA2.3 x 12mm **Screw**

PWA2.3 x 12mm **Screw**

PWA2.3 x 12mm **Screw**

PWA2.3 x 12mm **Screw**

PWA2.3 x 12mm **Screw**



13 Servo Set

Adjuster

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

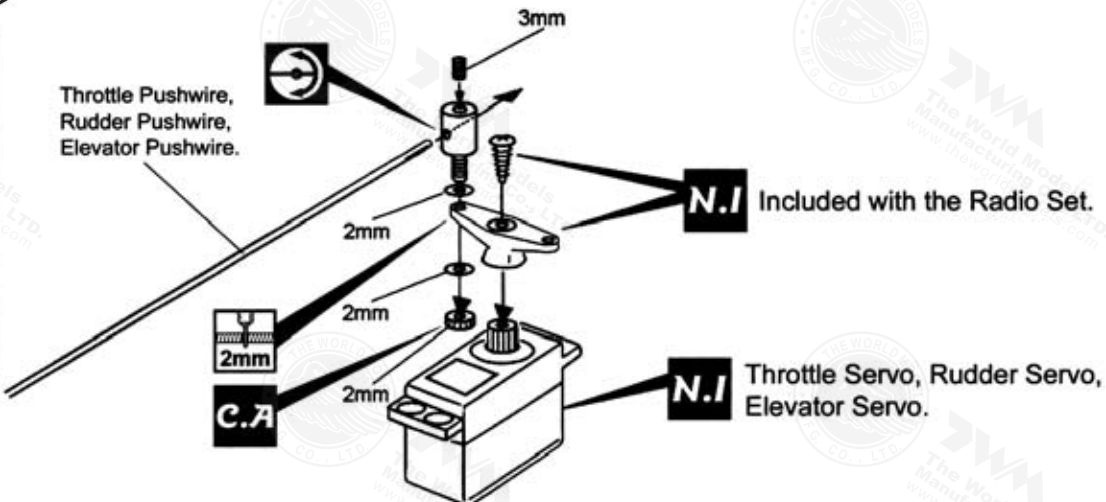
3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

3 x 3mm **Set Screw**

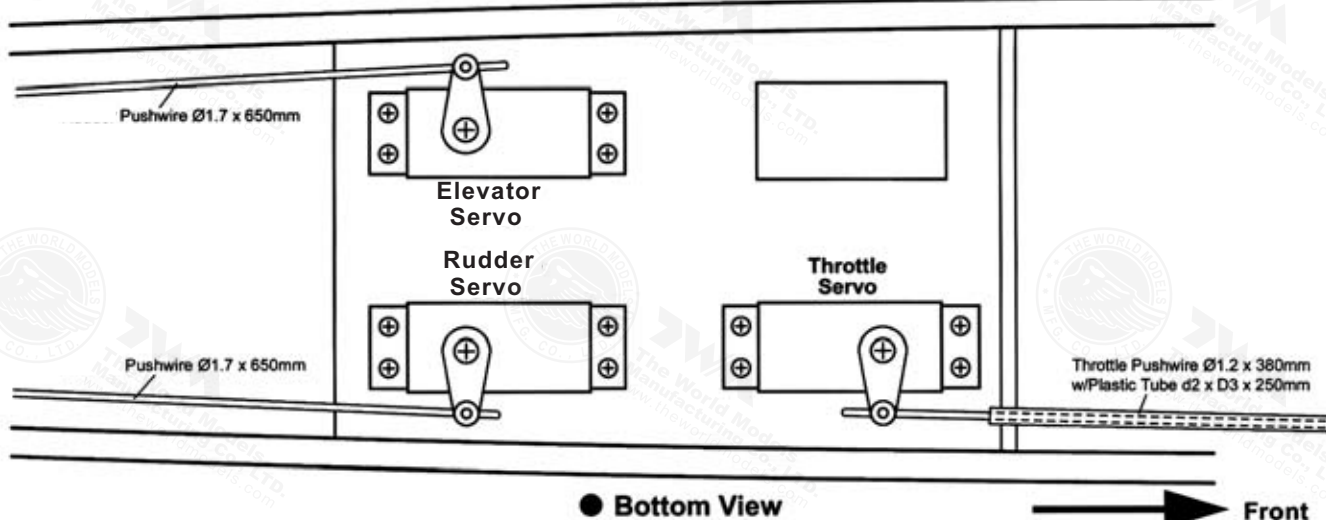
3 x 3mm **Set Screw**



14 Radio Equipment

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

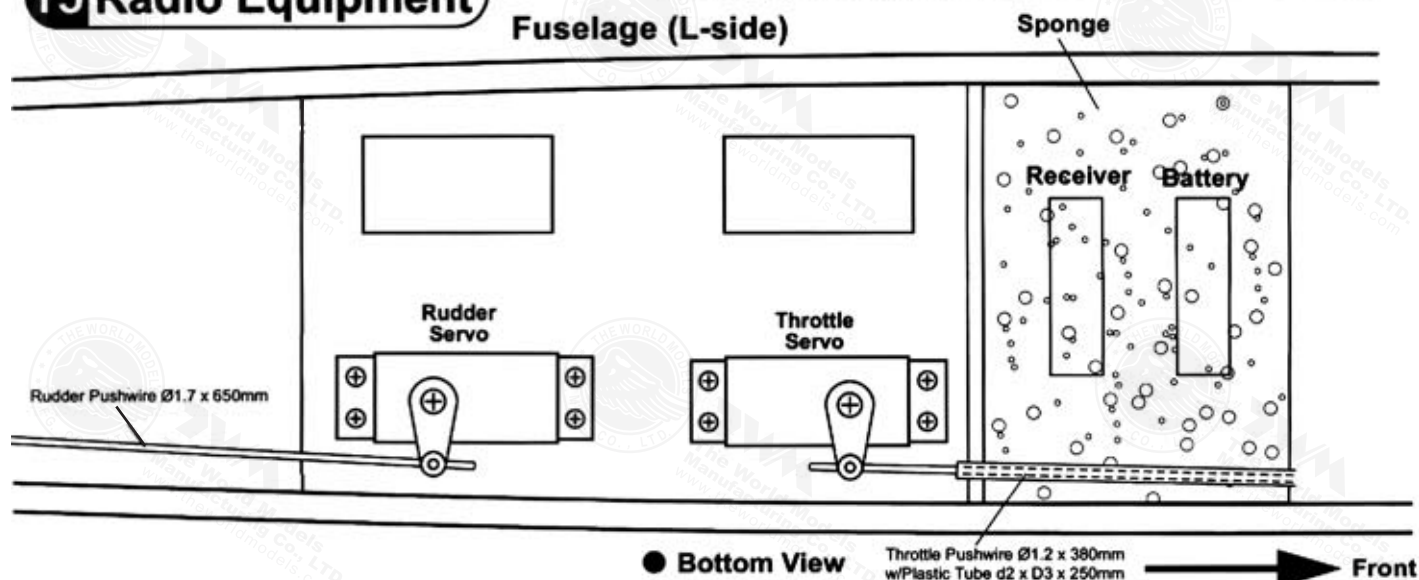
Fuselage (R-side)



15 Radio Equipment

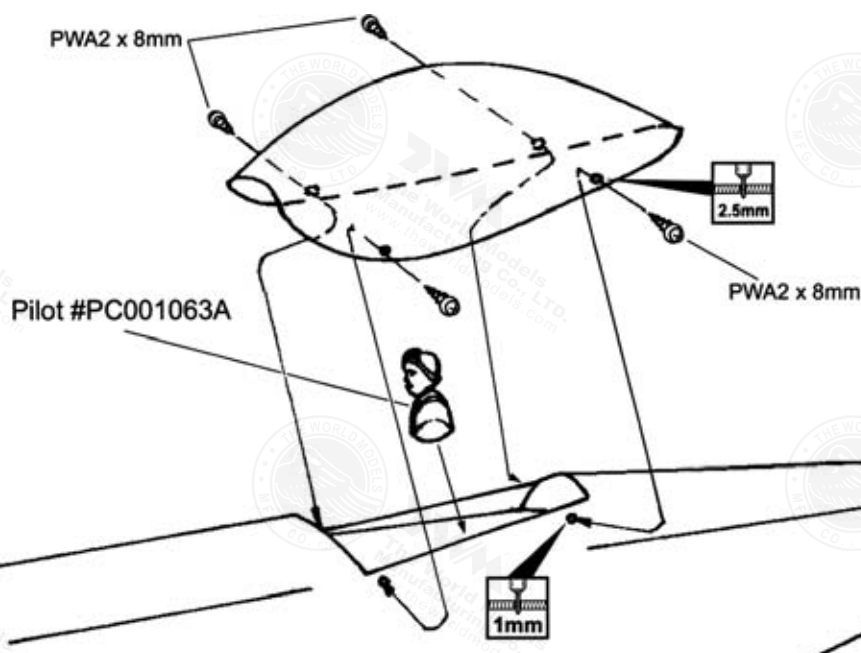
● Install and arrange the servo as shown in the diagram.

Fuselage (L-side)



16 Canopy

PWA2 x 8mm Screw



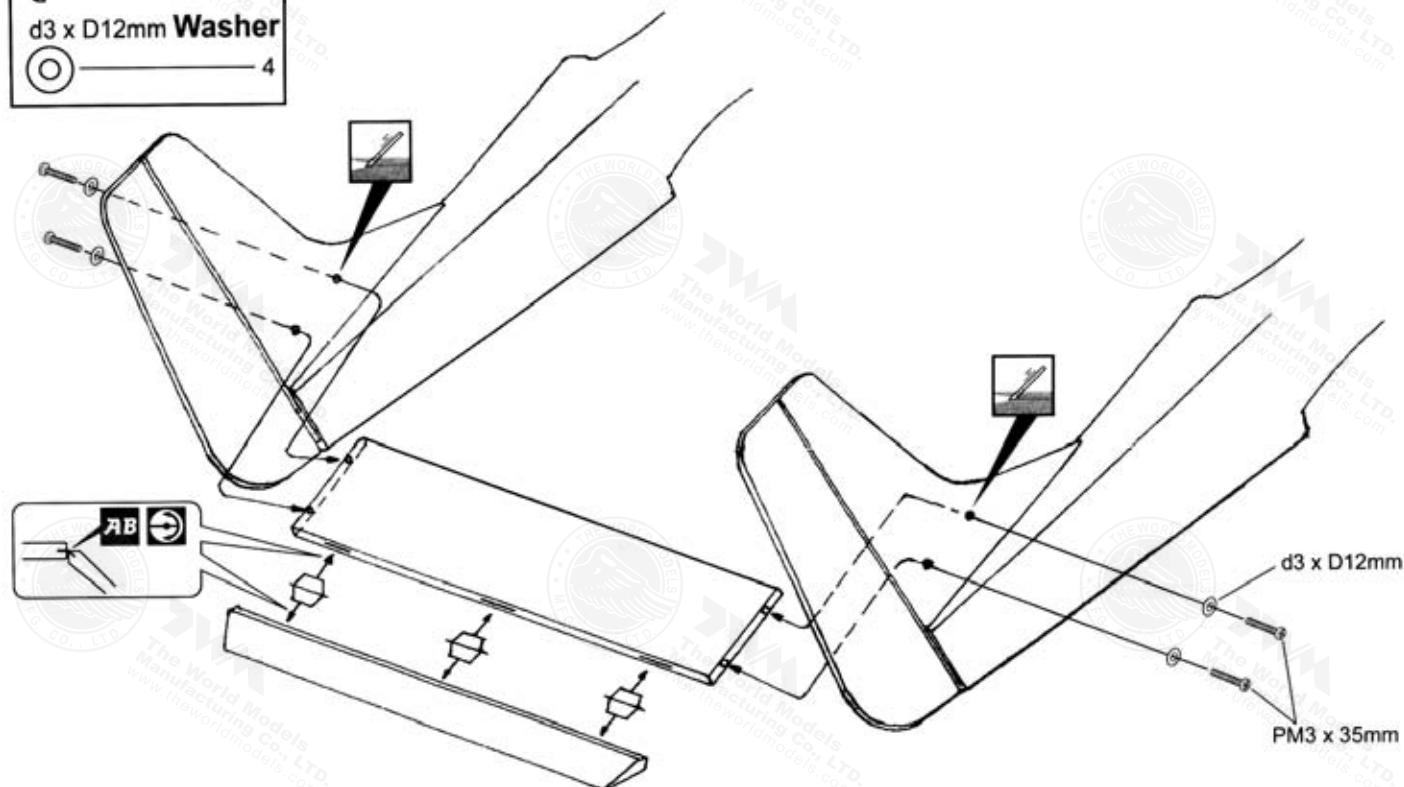
17 Stabilizer

PM3 x 35mm Screw

4

d3 x D12mm Washer

4



18 Linkage

PM2 x 12mm Screw

6

PM2 x 16mm Screw

3

Fuselage (R-side)

Fuselage (L-side)

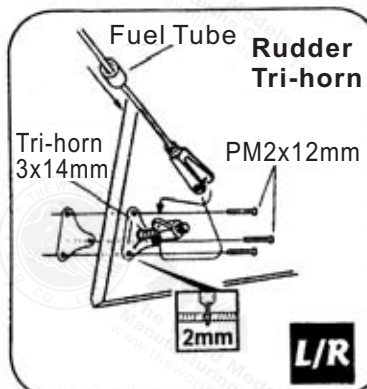
Elevator Tri-horn

PM2 x 16mm

Fuel Tube
Ø6 x 6mm

Tri-horn
3 x 14mm

2mm



● Bottom View

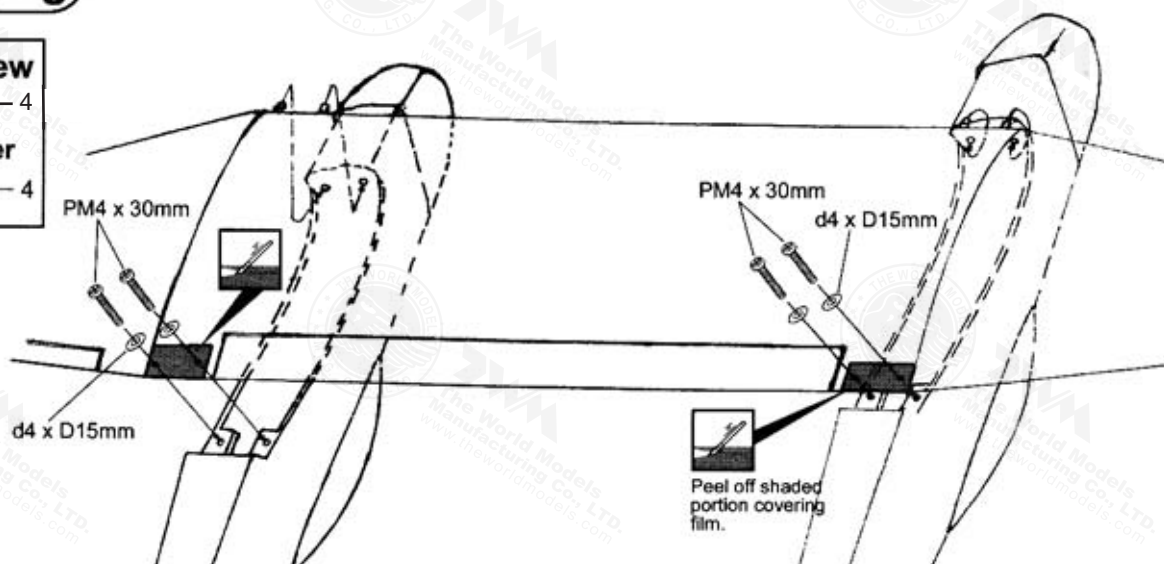
19 Main Wing

PM4 x 30mm Screw

4

d4 x D15mm Washer

4



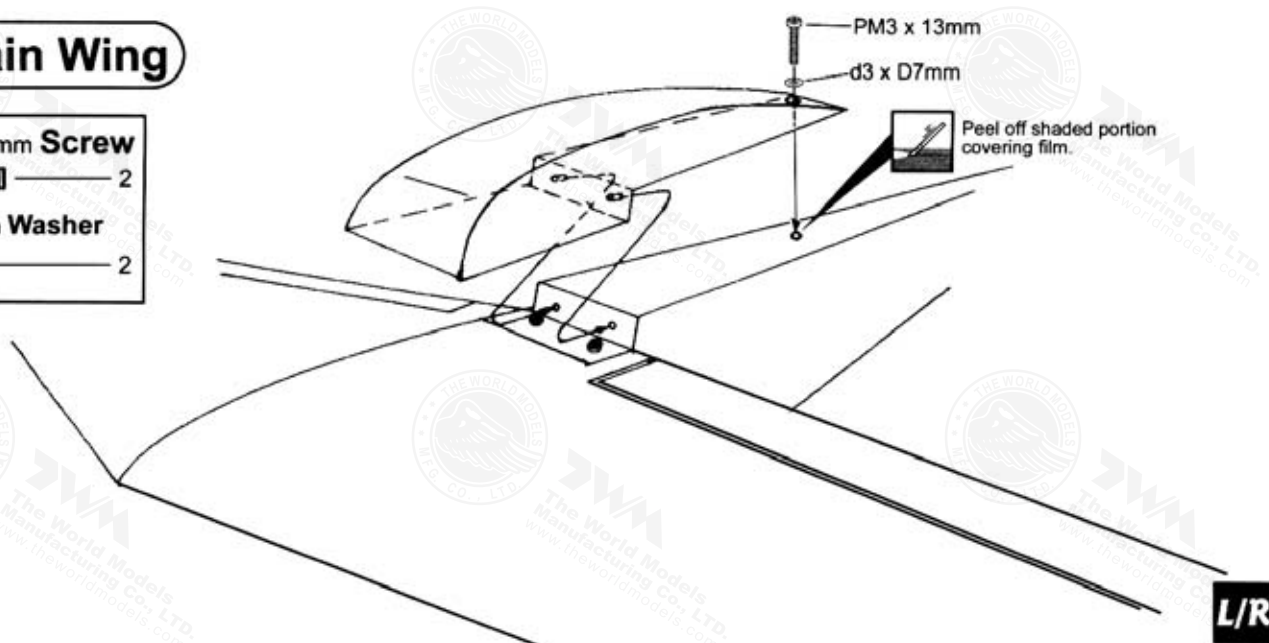
20 Main Wing

PM3 x 13mm Screw

2

d3 x D7mm Washer

2



21 Wing Setting

Rudder

Rudder

90°

90°

Elevator

A = A'

B = B'

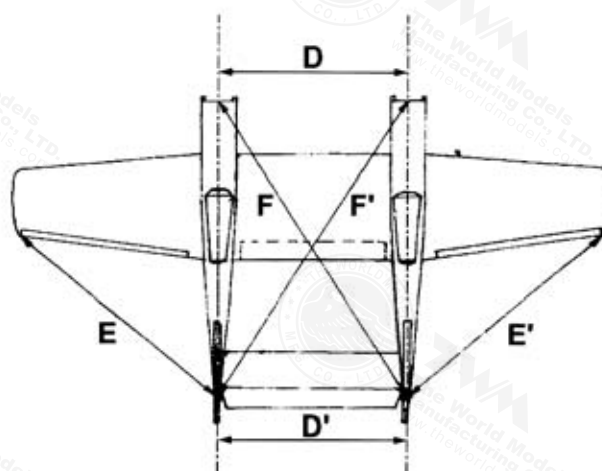
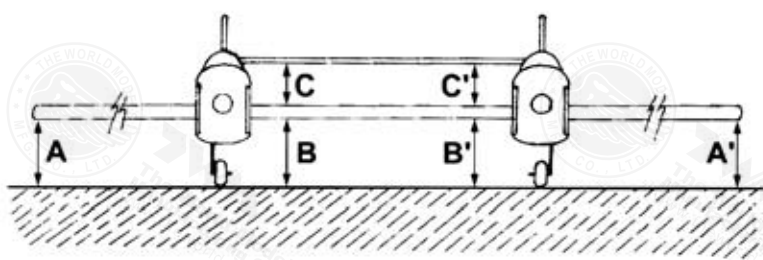
C = C'

D = D'

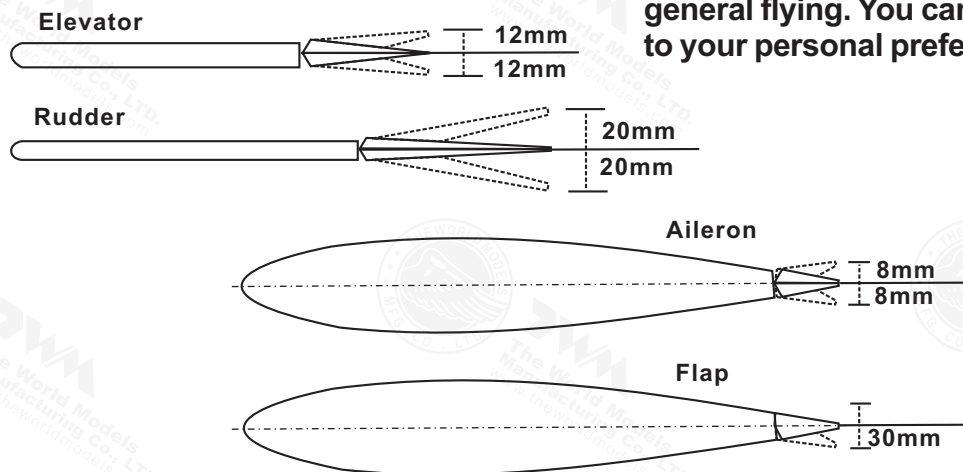
E = E'

F = F'

Adjust the wing and fuselage configuration as in the diagrams.

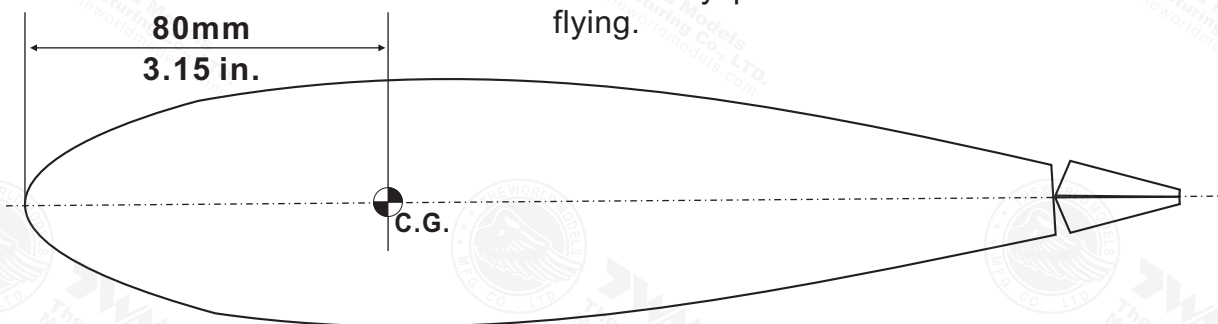


22 Control Ranges



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. Point



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.
- #**P-82 MUSTANG-40** is specially designed to be powered by **2X2C 0.40-0.46** 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.