



T-34

M E N T O R



**Requires: 0.40-0.55 cu. in. displacement 2-stroke
0.52-0.56 cu. in. displacement 4-stroke
4-channel radio w/ 5 standard servos**

Specifications

Wing Span	58.0 in / 1470 mm
Wing Area	577 sq in / 37.2 sq dm
Flying Weight	5.0-5.5 lbs / 2200-2500 g
FuseLage Length	48.0 in / 1220 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.



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

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

T-34

M E N T O R

INDEX

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

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.)



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!

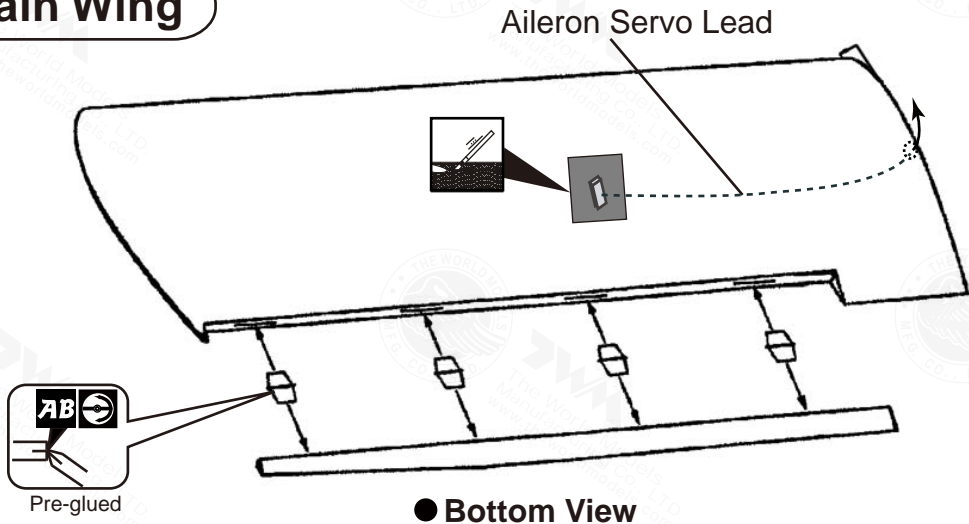
Do not overlook this symbol !



Parts List

1. MAIN WING – 1 pair
 2. SCREW PB2x14mm – 4 pcs
SCREW PB2x10mm – 2 pcs
SCREW PWA2x8mm – 8 pcs
CLEVIS PL4112103 – 2 pcs
STRAPER PL4112102 – 2 pcs
FUEL TUBE Ø6x5mm – 4 pcs
TRI-HORN M3x14mm (L) PL4111185 – 2 sets
PUSHROD Ø1.8x115mm w/ Threads (For Aileron) – 2 pcs
SERVO MOUNTING PANEL PL5310000 – 1 pair
 3. WING JOINER 6x16x84.5mm – 1 pc.
 4. MAIN LANDING GEAR – 1 pair
SCREW PA3x12mm – 8 pcs
MOUNTING PLATE (For Landing Gear) PL4114020 – 4 pcs
 5. MAIN WHEEL Ø50mm – 2 pcs
COLLAR Ø3.6mm w/ set screw – 4 sets
 6. FUSELAGE – 1 pc.
SCREW PA3x25mm – 1 pc.
WASHER d3xD12mm – 1 pc.
STABILIZER & ELEVATOR – 1 set
 7. VERTICAL FIN & RUDDER – 1 set
 8. FUEL TANK 320cc PL1111320 – 1 set
CABLE TIE 1.5x5x400mm – 1 pc.
DOUBLE-SIDED 40x100mm – 1 pc.
 9. ENGINE MOUNT PL51111030 – 1 set
SOCKET HEAD SCREW M3x25mm – 4 pcs
WASHER d3xD7mm – 4 pcs
 10. FRONT LANDING GEAR – 1 set
FRONT WHEEL Ø50mm – 1 pc.
COLLAR Ø4.1mm w/ set screw – 4 sets
STEERING ARM PL4112401 – 1 set
 11. SOCKET HEAD SCREW M3x25mm – 4 pcs
WASHER d3xD7mm – 8 pcs
M3 NUT – 8 pcs
THROTTLE PUSHWIRE Ø1.2x430mm – 1 pc.
PLASTIC TUBE d2xD3x380mm – 1 pc.
 12. COWLING – 1 pc.
TRANSPARENT 3D TEMPLATE – 1 pc.
SCREW PWA2.6x12mm – 4 pcs
SILICON GROMMET d1.5xD6.5mm – 4 pcs
SPINNER Ø57mm PL2111057 – 1 set
 13. TRI-HORN M3x22mm (L) PL4111251 – 1 set
CLEVIS PL4112103 – 1 pc.
FUEL TUBE Ø6x5mm – 1 pc.
SCREW PB2x12mm – 3 pcs
PUSHROD Ø1.8x665mm w/ Threads (For Rudder) – 1 pc.
 14. TRI-HORN M3x14mm (L) PL4111185 – 1 set
CLEVIS PL4112103 – 1 pc.
FUEL TUBE Ø6x5mm – 1 pc.
SCREW PB2x14mm – 3 pcs
PUSHROD Ø1.8x665mm w/ Threads (For Elevator) – 1 pc.
 15. LINKAGE CONNECTOR Ø2.1mm HW111060 – 2 sets
 16. PLYWOOD 6x82x117mm (For Fuselage Servos) – 1 pc.
BALSA 9x9x104mm (For Servos Stand) – 2 pcs
FUEL TUBE Ø6x5mm – 2 pcs
STRAPER PL4112102 – 2 pcs
FRONT WHEEL PUSHWIRE Ø1.2x430mm – 1 pc.
PLASTIC TUBE d2xD3x380mm – 1 pc.
 17. SPONGE 60x70x82mm – 1 pc.
 18. CANOPY – 1 pc.
SCREW PWA2.3x8mm – 6 pcs
SILICON GROMMET d1.5xD6.5mm PL1265035 – 6 pcs
PILOT PC001063A/B – 2 sets
DOUBLE-SIDED TAPE – 1 pc.
 19. SOCKET HEAD SCREW M3x25mm – 2 pcs
WASHER d3xD12mm – 2 pcs
PLYWOOD 3x45x90mm (Wing Protection) – 1 pc.
 20. DECALS:A052DEC – 1 set
- COVERING:--
- TOUGHLON STL 100 WHITE
TOUGHLON STL 201 BLACK
TOUGHLON STL 250 BLUE
TOUGHLON STL 312 BRIGHT RED
TOUGHLON STL 320 ORANGE
TOUGHLON STL 331 CUB YELLOW

1 Main Wing

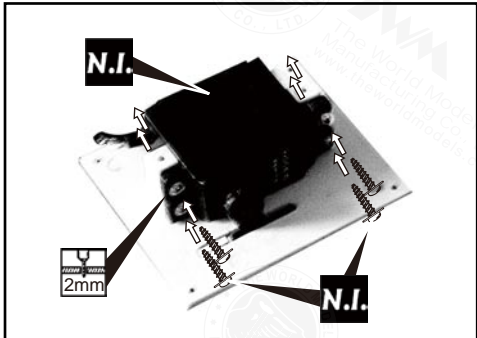
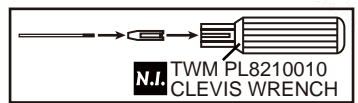


● Bottom View

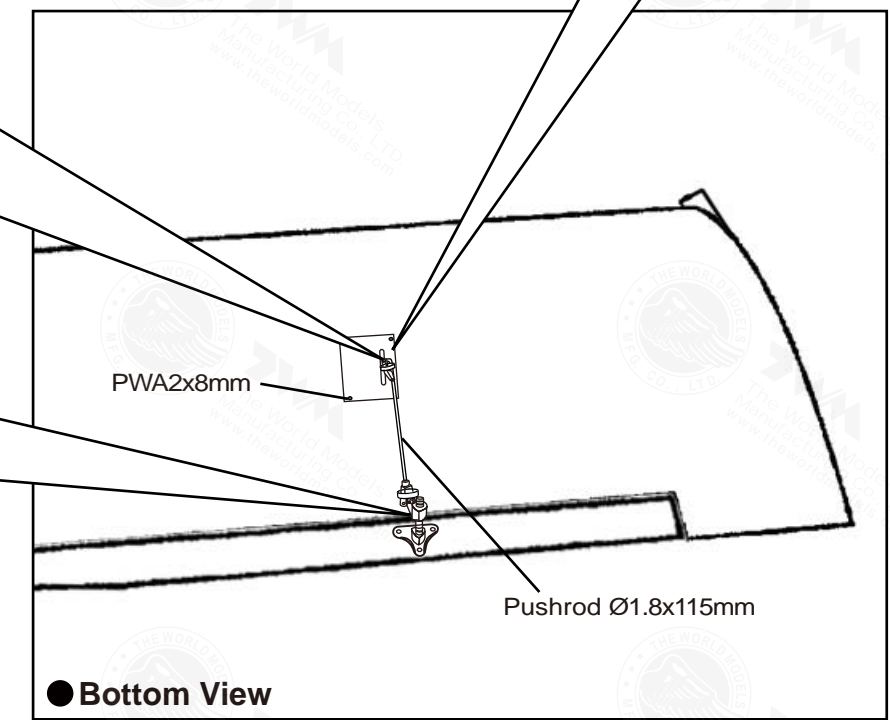
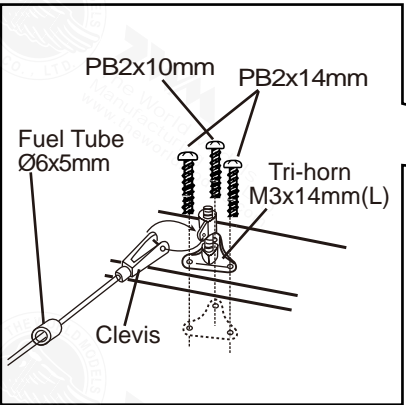
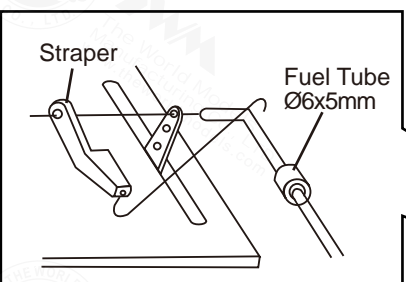
L/R

2 Aileron Servo

- PB2x14mm Screw — 4
- PB2x10mm Screw — 2
- PWA2x8mm Screw — 8



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

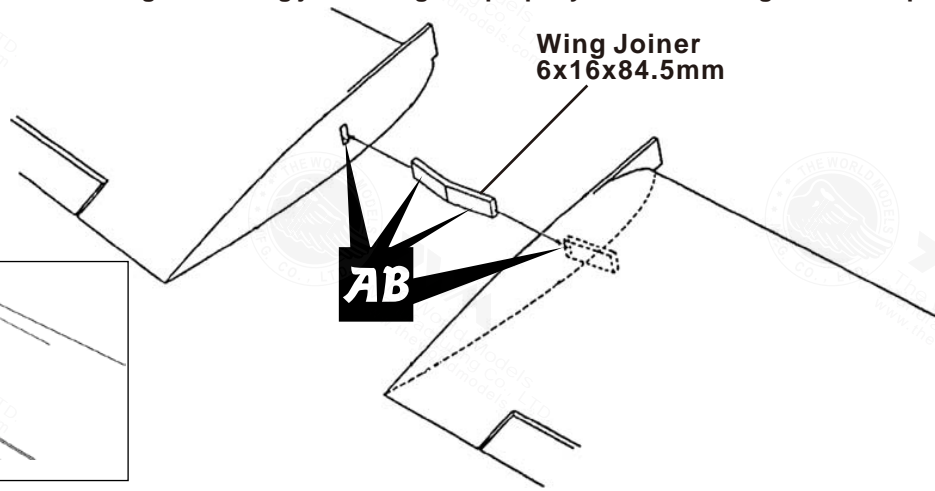


● Bottom View

L/R

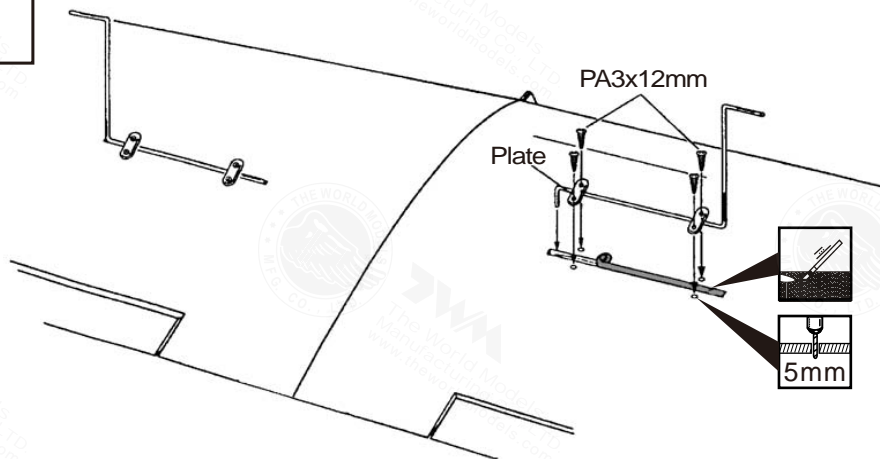
3 Main Wing

● Please dry fit wing joiner into left and right wing to make sure they fit with the proper dihedral angle, mark the wing joiner if necessary. Apply epoxy glue to both sides of all surfaces in contact. Use a stick to apply the glue to inner side of wing joiner sleeve, and apply the glue to wing joiner before putting them together. Wing joiner not glued properly will lead to wing failure and plane crash.



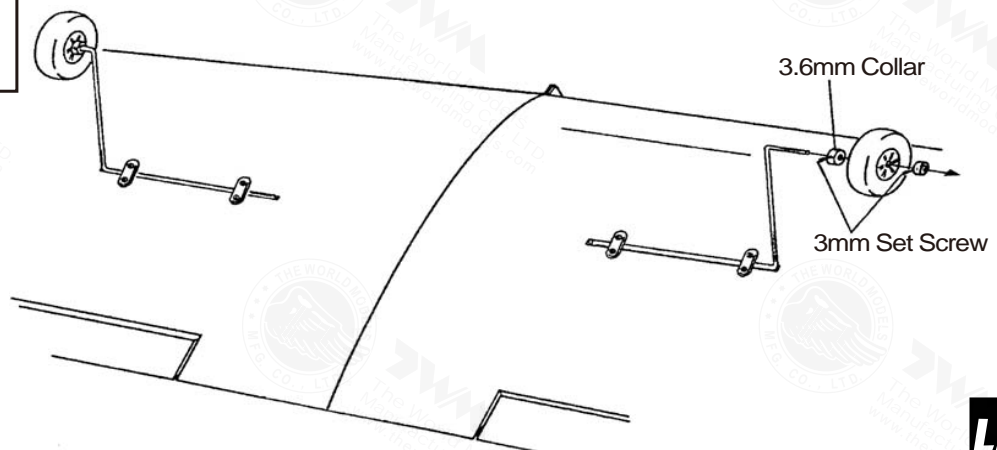
4 Main Landing Gear

PA3x12mm Screw



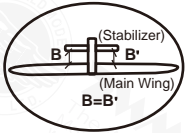
5 Main Wheels

3.6mm Collar

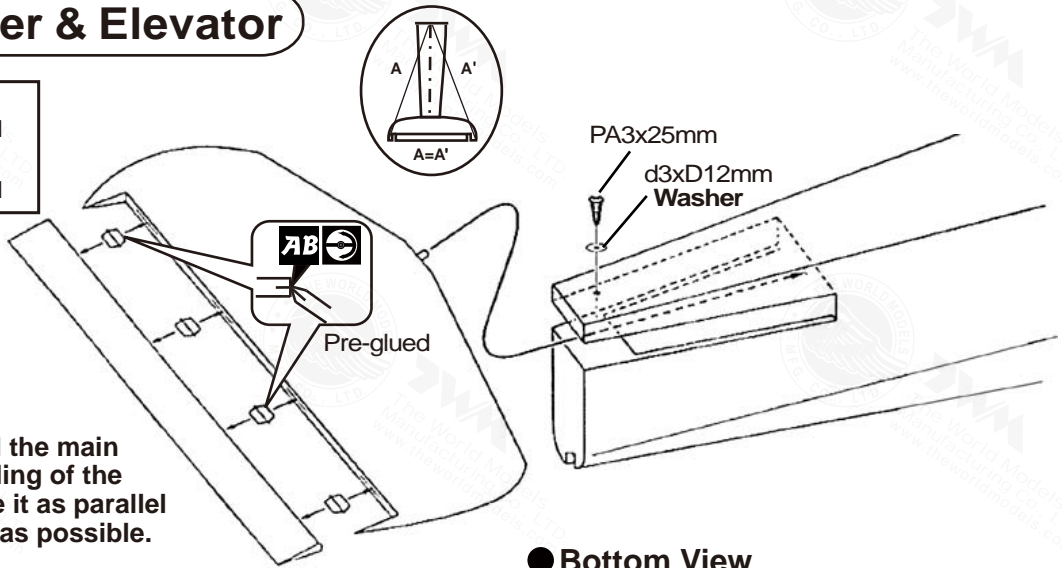


6 Stabilizer & Elevator

PA3x25mm Screw
 d3xD12mm Washer

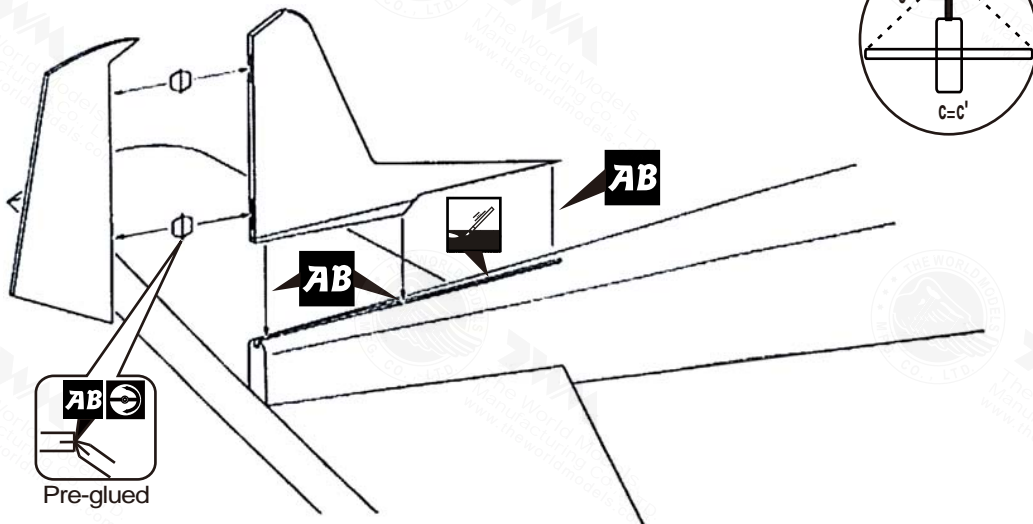


Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.



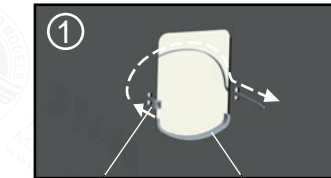
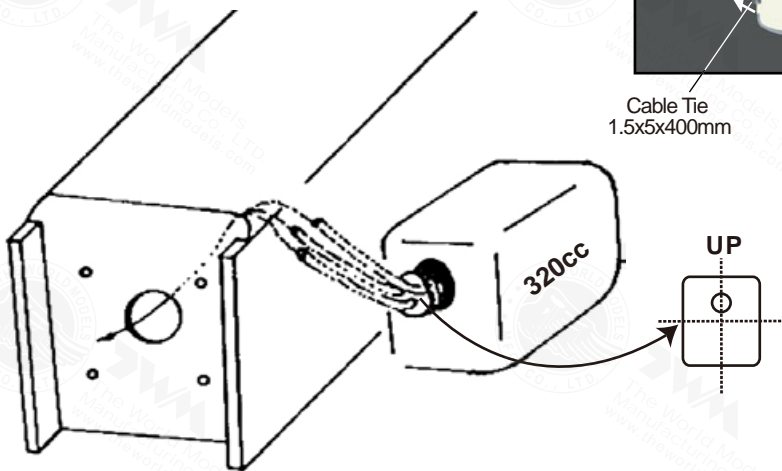
● Bottom View

7 Vertical Fin & Rudder



Pre-glued

8 Fuel Tank



① Cable Tie
1.5x5x400mm

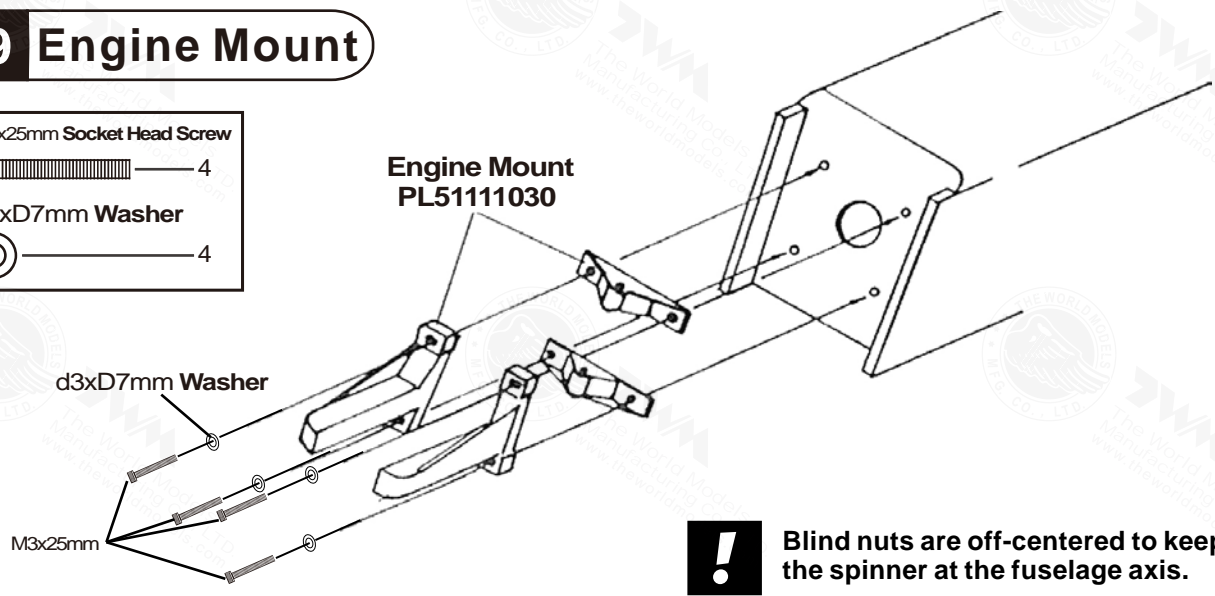
Double-sided Tape
40x100mm



● Completed

9 Engine Mount

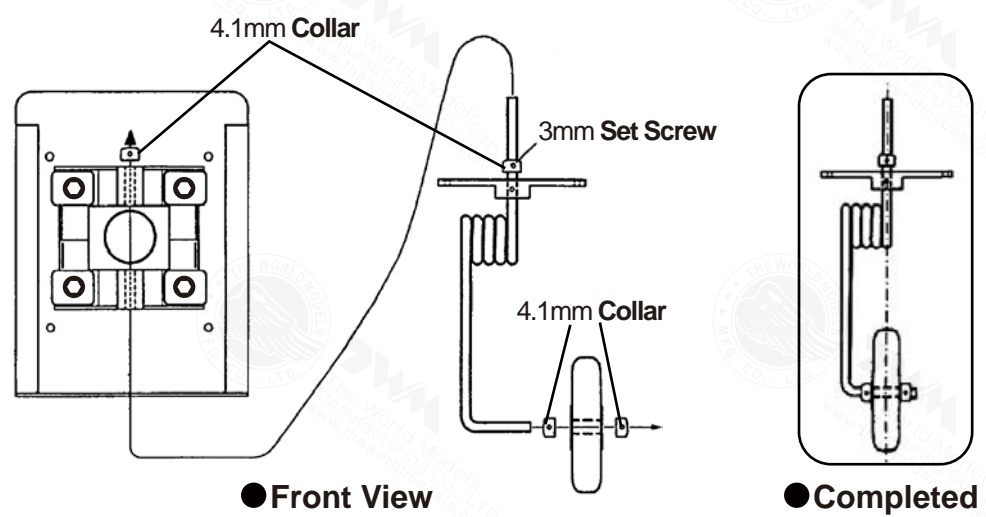
- M3x25mm Socket Head Screw — 4
- d3xD7mm Washer — 4



! Blind nuts are off-centered to keep the spinner at the fuselage axis.

10 Front Wheel

- 4.1mm Collar — 4
- 3mm Set Screw — 4

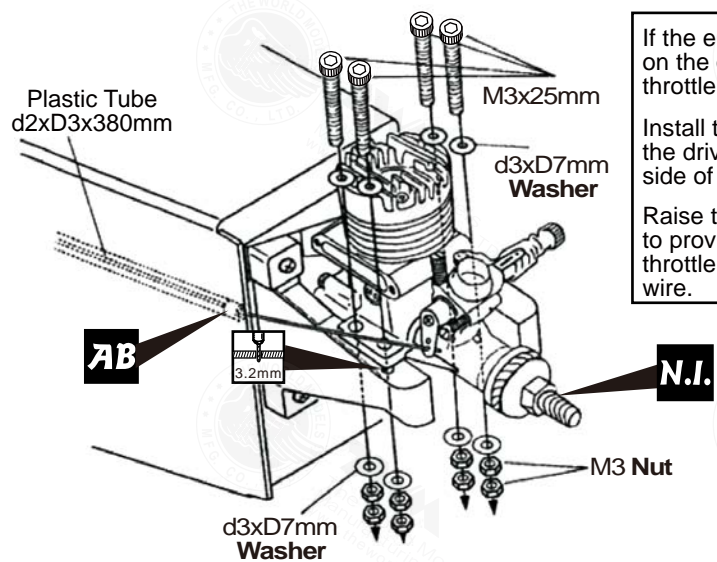
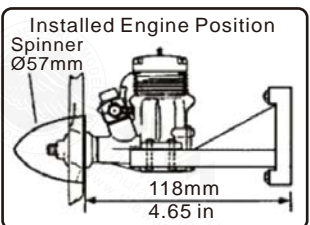


● Front View

● Completed

11 Engine

- M3x25mm Socket Head Screw — 4
- d3xD7mm Washer — 8
- M3 Nut — 8



If the engine throttle control is on the opposite side, install the throttle push-wire accordingly.

Install the throttle servo with the drive pinion on the same side of throttle push-wire.

Raise throttle servo if necessary to provide clearance between throttle and front wheel push-wire.

12 Cowling

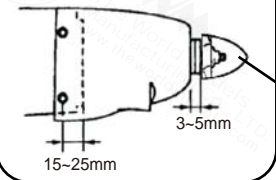
PWA2.6x12mm Screw



d1.5xD6.5mm Silicon Grommet

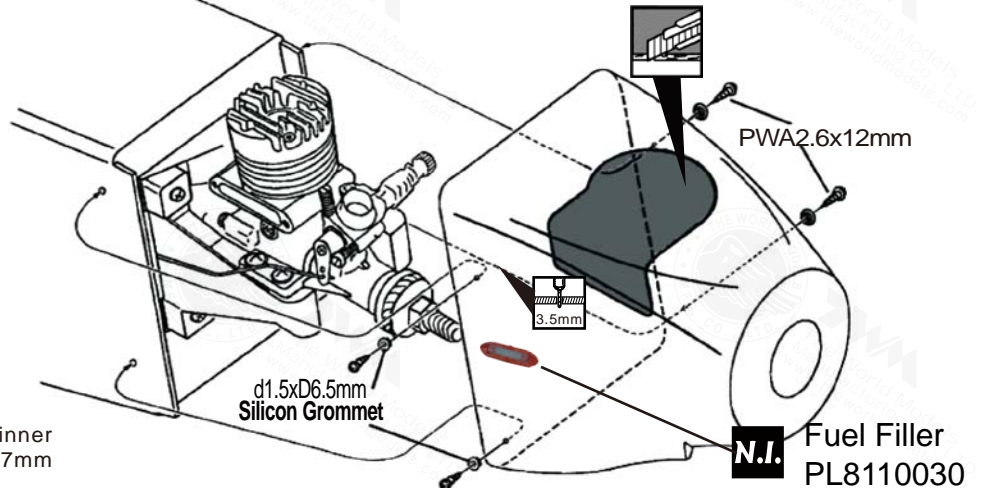


Install the cowling as shown on the drawing to allow for 5-7mm clearance between drive, washer surface and tip of cowling.



Spinner
Ø57mm

- Please refer to the attached sheet for usage of the transparent 3D template.



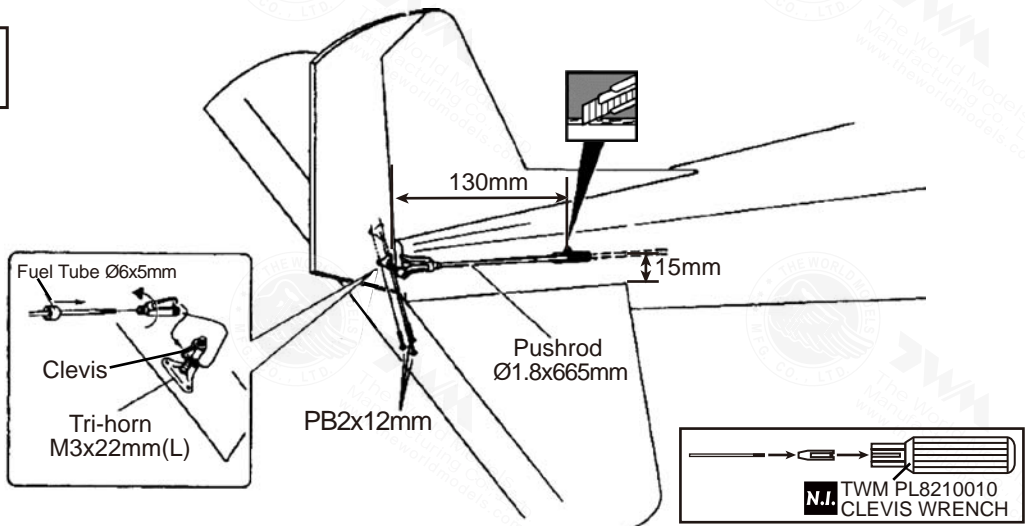
- First insert the grommet to the cowling then apply screw.

13 Rudder Pushrod

PB2x12mm Screw



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

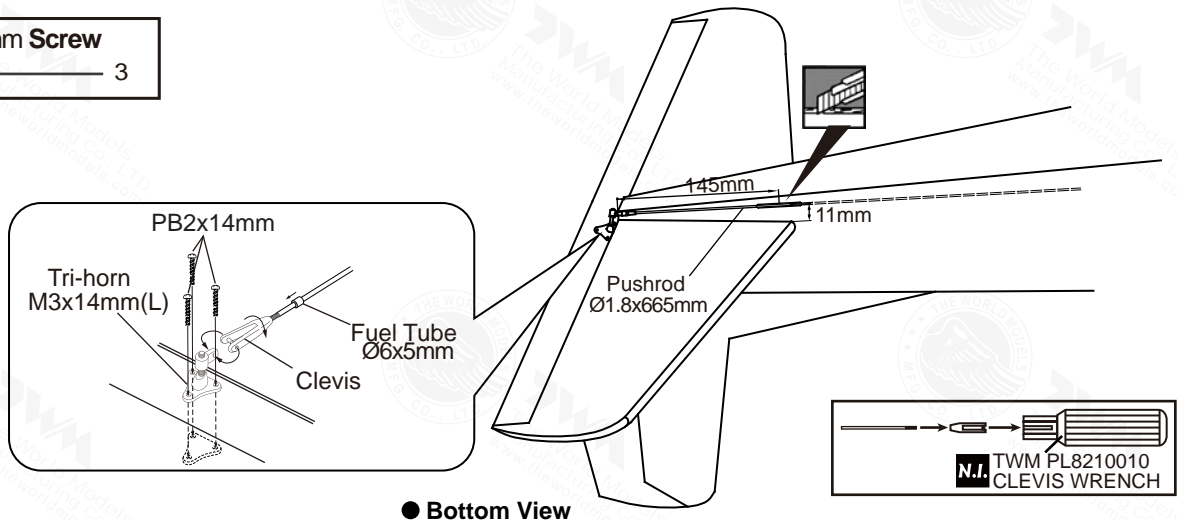


14 Elevator Pushrod

PB2x14mm Screw



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



● Bottom View

18 Canopy

● First insert the grommet to the canopy then apply screw.

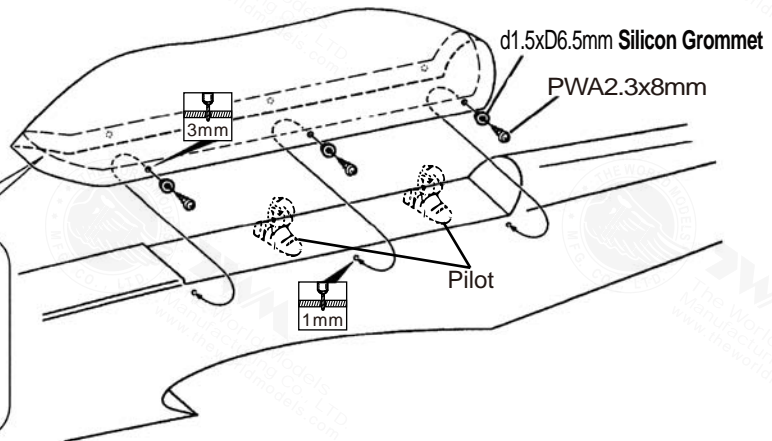
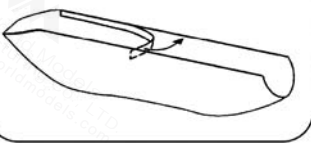
PWA2.3x8mm Screw



d1.5xD6.5mm Silicon Grommet



● Apply double-sided tape



L/R

19 Main Wing

M3x25mm Socket Head Screw

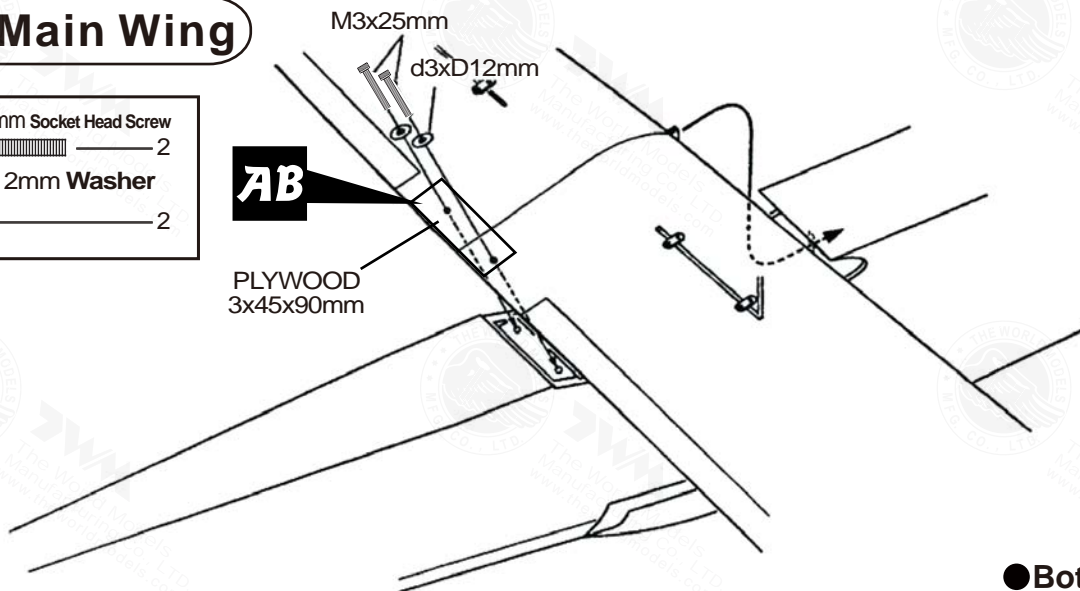


d3xD12mm Washer



AB

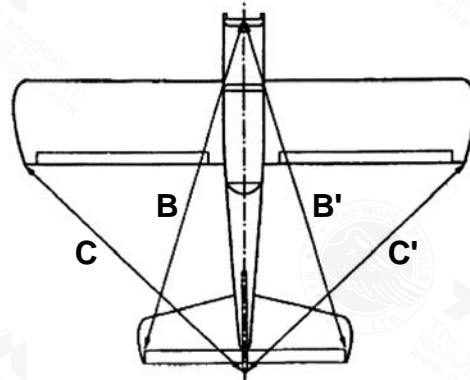
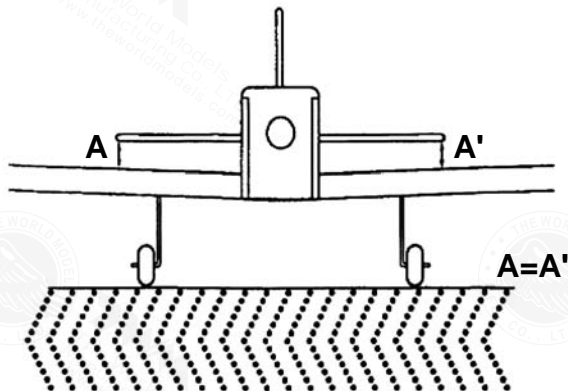
PLYWOOD
3x45x90mm



● Bottom View

20 Wing Setting

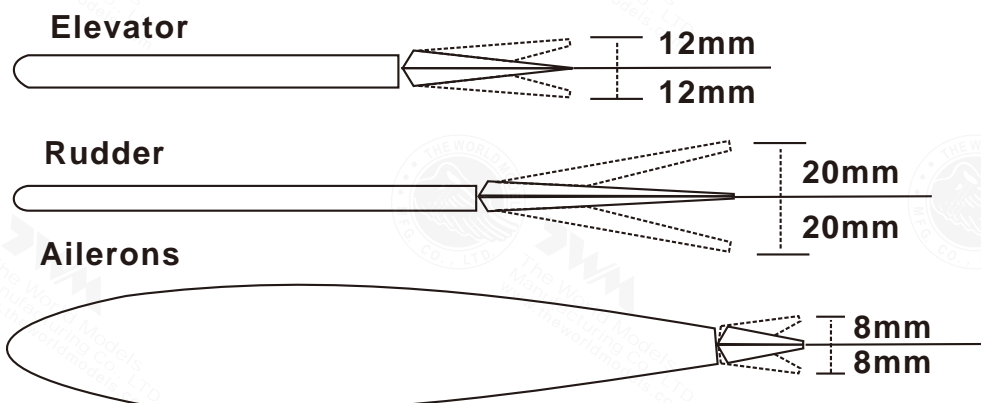
● Adjust the wing and fuselage configuration as shown in the diagrams.



B=B'
C=C'

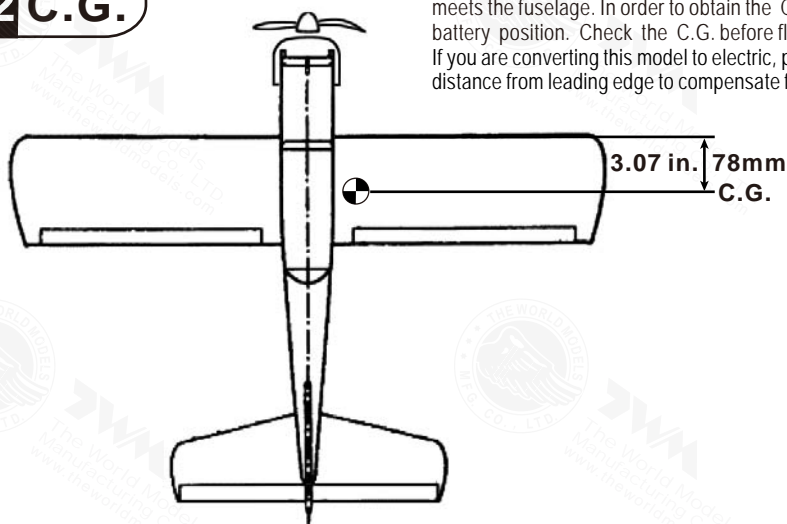
21 Control Throws

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



22 C.G.

- The ideal C.G. position is 78mm (3.07in.) 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. If you are converting this model to electric, please move the C.G. forward 10% of current C.G. distance from leading edge to compensate for weight of fuel.



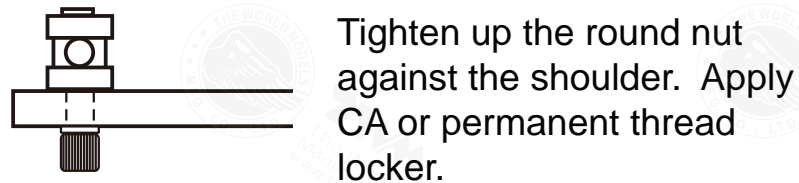
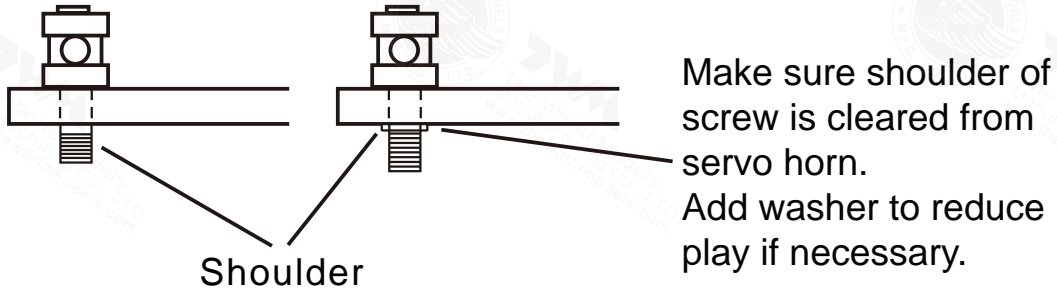
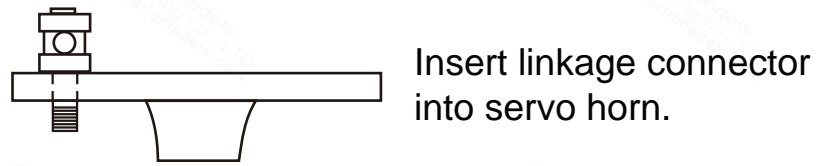
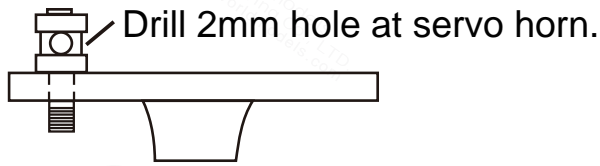
! Warning!

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.
- # **T-34** is specially designed to be powered by **2C 0.40-0.55 / 4C 0.52-0.56** engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause structural 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. Don't use hot iron near the seams or edges, hot iron will melt the glue and shrink the covering at the same time, causing the seams to pull away.
- # Check and re-tighten up all factory assembled screws, use thread locker if necessary.

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: _____

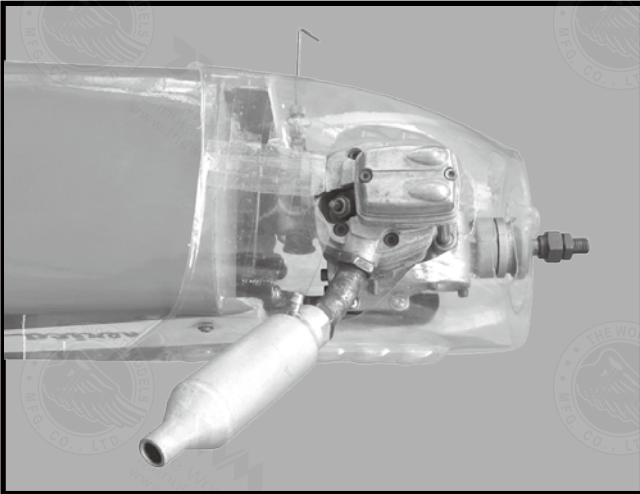
Please call AirBorne Models at 925 371 0922 for any assistance in filling this form. Thank you very much for purchasing our product.

Usage of the transparent 3D template

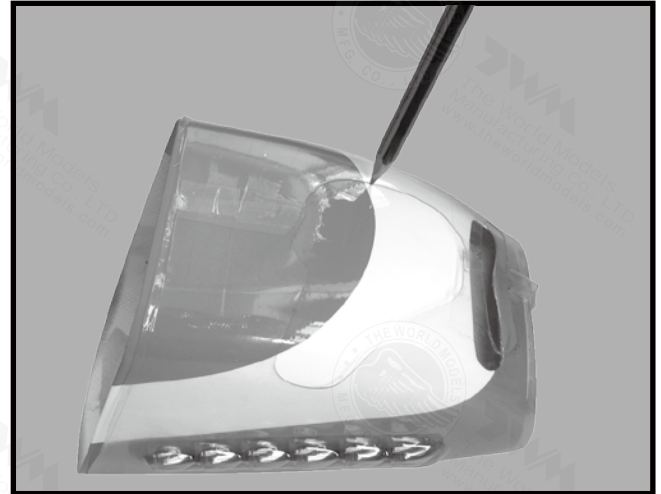


This transparent 3D template is used for position guidance of the actual cutting of the pre-painted cowling.

1



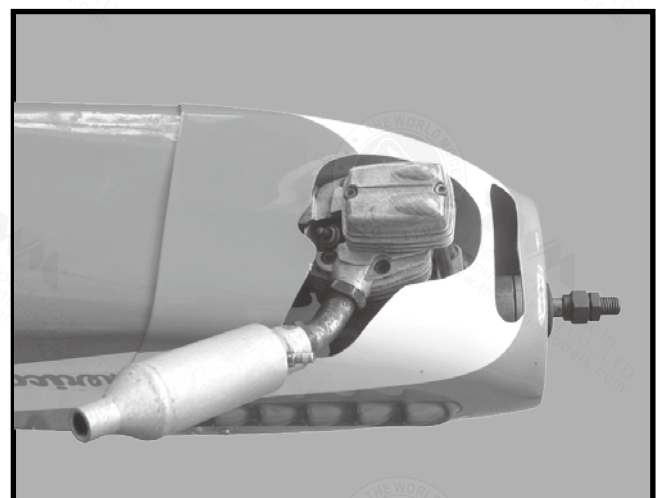
2



3



4



Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.

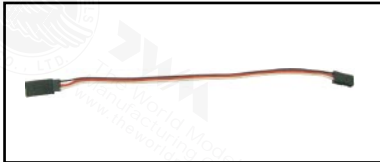
Optional Parts

(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
----------	------	---------

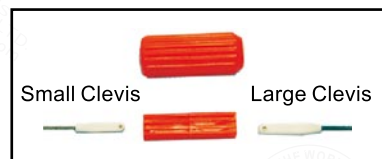
PL8110030 15 x 22 x 49mm 1 x 1 pc



Clevis Wrench

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

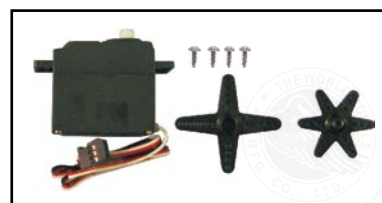
PL8210010 1 set



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

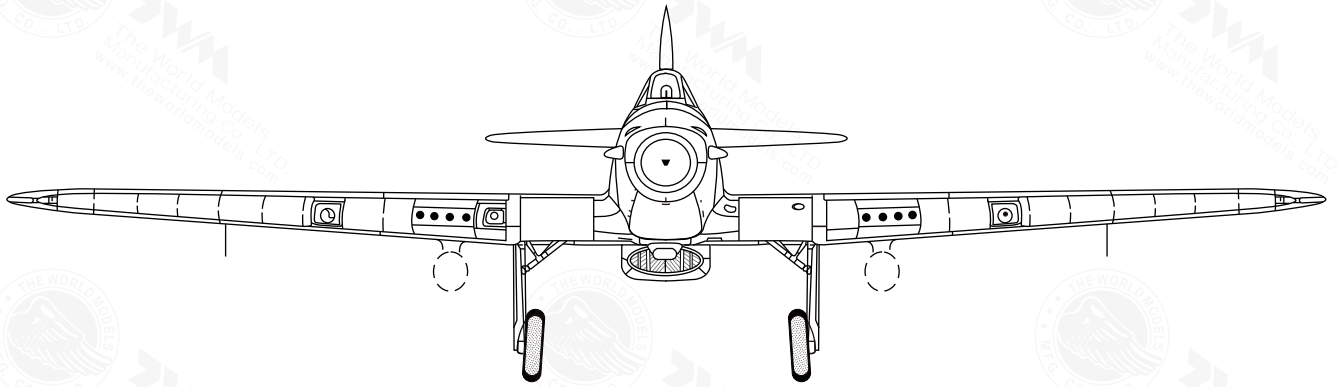
Standard Servo

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

Covering

(Lightex / Toughlon)



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