

100 CC SKY LINK



100cc gasoline engine

Requires : 6-channel radio w/ 9 high torque servos

Specifications

Wing Span	144 in / 3650 mm
Wing Area	2731 sq in / 176.2 sq dm
Flying Weight	36.5 lb / 16.5 kg
Fuselage Length	112 in / 2850 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

100 CC SKY LINK

INDEX

BEFORE YOU BEGIN	P.1
PARTS LIST	P.2
ASSEMBLY	P.3-P.13
SAFETY PRECAUTIONS	P.13

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).



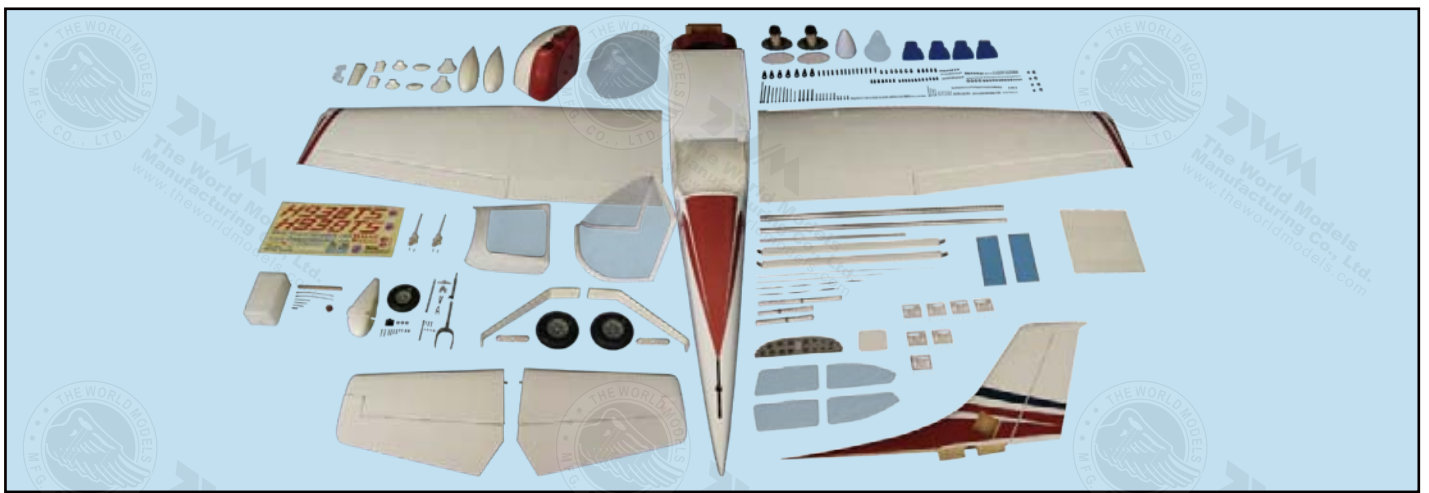
Pierce the shaded portion
covering film.



Pay close attention here!



Do not overlook this symbol !



Parts List

1. MAIN WING -- 1 pair
2. SOCKET HEAD SCREW M4x70mm -- 4 pcs
SCREW PWA2.3x8mm -- 24 pcs
M4 NYLON INSERT LOCK NUT -- 4 pcs
PUSHROD M3x90mm w/ Threads(For Aileron) -- 2 pcs
PUSHROD M3x115mm w/ Threads(For Flap) -- 2 pcs
HEAVY DUTY CLEVIS PL4112200 -- 8 sets
HEAVY DUTY HORN BRACKET PL4112400 -- 4 sets
HEAVY DUTY SERVO HORN PL4120300 -- 4 sets
SWIVEL CLEVIS HORN FAIRING PL4610010 -- 4 sets
SERVO MOUNTING PANEL PL5310010(For Aileron) -- 1 pair
SERVO MOUNTING PANEL PL53P012(For Flap) -- 2 pcs
LAMP COVER 0.8mm PVC -- 1 pair
3. STABILIZER & ELEVATOR -- 1 set
SOCKET HEAD SCREW M4x60mm -- 2 pcs
M4 NYLON INSERT LOCK NUT -- 2 pcs
PUSHROD M3x85mm w/ Threads (For Elevator) -- 2 sets
SERVO MOUNTING PANEL PL5310010(For Elevator) -- 1 pair
SCREW PWA2.3x8mm -- 8 pcs
HEAVY DUTY CLEVIS PL4112200 -- 4 sets
HEAVY DUTY SERVO HORN PL4120300 -- 2 sets
SWIVEL CLEVIS HORN FAIRING PL4610010 -- 2 sets
HEAVY DUTY HORN BRACKET PL4112400 -- 2 sets
4. FUSELAGE -- 1 pc.
SCREW PA3x12mm -- 2 pcs
WASHER d3xD7mm -- 2 pcs
STABILIZER TUBE Ø14.5x580mm -- 1 pc.
5. VERTICAL FIN & RUDDER -- 1 set
VERTICAL FIN'S WING 105x85x6mm -- 1 pc.
6. SOCKET HEAD SCREW M4x50mm -- 1 pc.
M4 NYLON INSERT LOCK NUT -- 1 pc.
SWIVEL CLEVIS HORN FAIRING PL4610010 -- 1 set
HEAVY DUTY CLEVIS PL4112200 -- 2 sets
HEAVY DUTY SERVO HORN PL4120300 -- 1 set
HEAVY DUTY HORN BRACKET PL4112400 -- 1 set
SERVO MOUNTING PANEL PL531P011(For Rudder) -- 1 pc.
PUSHROD M3x80mm w/ Threads(For Rudder) -- 1 pc.
SCREW PWA2.3x8mm -- 4 pcs
7. NOSE LANDING GEAR -- 1 set
COLLAR Ø5.1mm w/ set screw -- 2 sets
COLLAR Ø6.1mm w/ set screw -- 2 sets
WHEEL PANTS -- 1 pc.
LARGE SCALE THREADED INFLATABLE WHEEL Ø118mm -- 1 pc.
STEERING ARM w/ set screw -- 1 set
PUSHROD Ø1.8x480mm (For Nose Wheel Steering) -- 1 pc.
PLASTIC TUBE d2.5xD4x350mm (For Nose Wheel Steering) -- 1 pc.
SOCKET HEAD SCREW M5x70mm -- 1 pc.
SOCKET HEAD SCREW M4x6mm -- 2 pcs
SCREW HM4x20mm -- 2 pcs
SCREW HM3x12mm -- 1 pc.
M5 NYLON INSERT LOCK NUT -- 1 pc.
M4 NYLON INSERT LOCK NUT -- 2 pcs
M3 NYLON INSERT LOCK NUT -- 1 pc.
WASHER d5xD12mm -- 2 pcs
SCREW HA3x18mm -- 4 pcs
SCREW HA3x30mm -- 4 pcs
NOSE GEAR BLOCK PL4116025 -- 1 pc.
NOSE GEAR BLOCK d13x25x32mm -- 1 pc.
8. LARGE SCALE THREADED INFLATABLE WHEELS Ø150mm -- 1 pair
MAIN LANDING GEAR -- 1 pair
MAIN LANDING GEAR FARING -- 1 pair
SOCKET HEAD SCREW M5x25mm -- 6 pcs
AXLE SHAFT d5xM8x100mm -- 2 pcs
- SCREW HM3x12mm -- 4 pcs
WASHER d5xD12mm -- 6 pcs
COLLAR Ø5.1mm w/ set screw -- 4 sets
M8 NYLON INSERT LOCK NUT -- 2 pcs
WHEEL PANTS -- 1 pair
PLATE 1mm -- 2 pcs
9. SOCKET HEAD SCREW M6x50mm -- 4 pcs
PUSHROD Ø1.8x600mm (For Throttle) -- 1 pc.
PLASTIC TUBE d2xD3x350mm (For Throttle) -- 1 pc.
WASHER d6xD15mm -- 4 pcs
M6 BLIND NUT -- 4 pcs
FIREWALL DRILLING TEMPLATE 180x155x3mm -- 1 pc.
10. FUEL TANK 1500cc PL1121500N -- 1 set
INSTRUMENT PANEL -- 1 pc.
CABLE TIE (For Fuel Tank) 1.5x8x500mm -- 1 pc.
DOUBLE-SIDED TAPE 40x160mm -- 1 pc.
11. LINKAGE CONNECTOR Ø2.1mm -- 2 sets
12. SPONGE 10x80x200mm (For Radio Equipment) -- 2 pcs
13. WIND SHIELD & SIDE WINDOWS -- 1 set
SCREW PWA2.3x12mm -- 10 pcs
SILICON GROMMET d1.5xD6.5mm -- 10 pcs
14. PILOT PC101110A -- 2 sets
SEAT 110x100x20mm -- 4 pcs
BALSA 298x321x3mm (For Pilot Stand) -- 1 pc.
15. COWLING -- 1 set
TRANSPARENT 3D TEMPLATE -- 1 pc.
QUICK RELEASE NYLON RIVET PL1208042 -- 10 pcs
SCREW KA2.3x8mm -- 10 pcs
SCREW PA3x12mm -- 8 pcs
GROMMET d2.5xD8.5mm PL1285035 -- 8 pcs
WASHER d3xD7mm -- 8 pcs
SPINNER Ø95mm -- 1 set
SCREW PWA2.3x12mm -- 4 pcs
AIR SCOOP -- 1 set
16. WING TUBE Ø25.4x1000mm -- 1 pc.
WING TUBE Ø22x1000mm -- 1 pc.
SCREW HM3x45mm -- 1 pc.
SCREW HM3x35mm -- 1 pc.
SCREW PA3x45mm -- 1 pc.
SCREW PA3x35mm -- 1 pc.
WASHER d3xD7mm -- 4 pcs
17. MAIN WING STRUT -- 1 pair
SCREW HM4x16mm -- 4 pcs
SCREW PM2x18mm -- 8 pcs
M2 NYLON INSERT LOCK NUT -- 8 pcs
WASHER d4.5xD9mm -- 4 pcs
WASHER d2xD5mm -- 16 pcs
MAIN WING STRUT COVER -- 1 set
18. ANTENNA -- 1 pair
ORNAMENT -- 1 set
SCREW PA2x12mm -- 4 pcs
19. DECALS: A299DEC -- 1 set
- COVERING:--
TOUGHLON STL100 WHITE
LIGHTEX SGX 201 BLACK
LIGHTEX SGX 580 PEARL BRONZE
LIGHTEX SGX 350 CORSAIR BLUE
LIGHTEX SGX 100 WHITE

1 Main Wing



● Bottom View

2 Aileron & Flap Servos

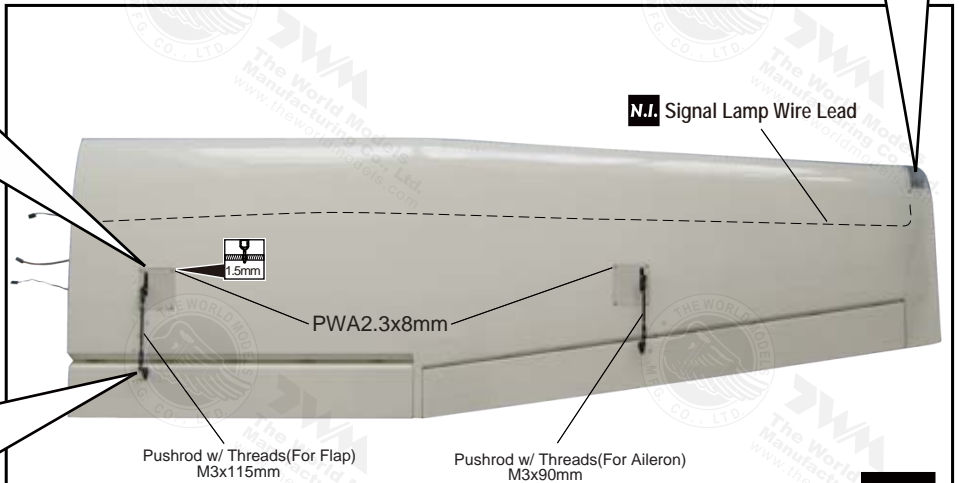
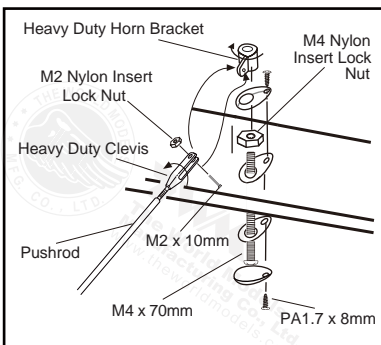
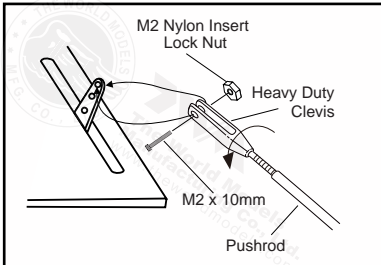
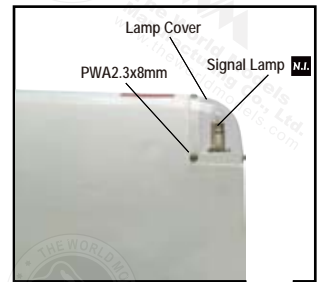
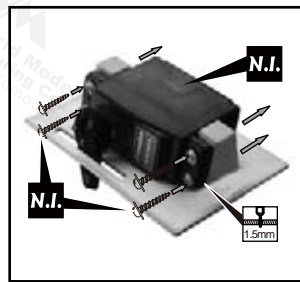
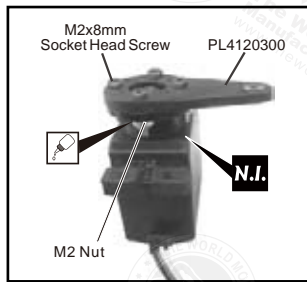
M4x70mm Socket Head Screw



PWA2.3x8mm Screw

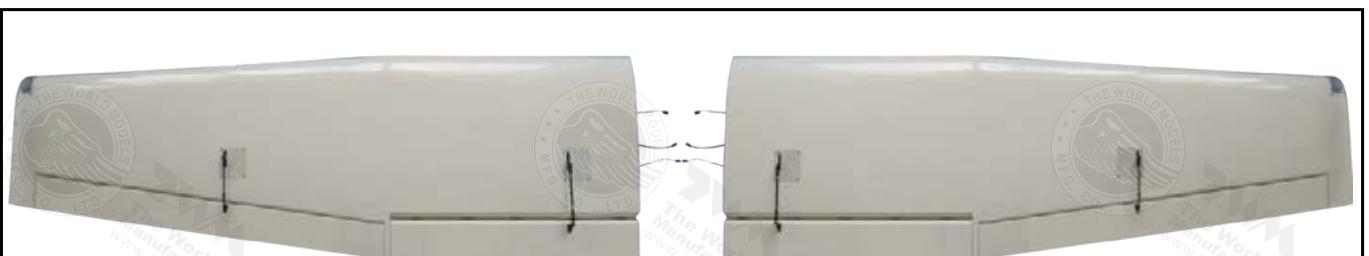


M4 Nylon Insert Lock Nut



● Bottom View

L/R



● Bottom View

● Completed

3 Elevator Servos

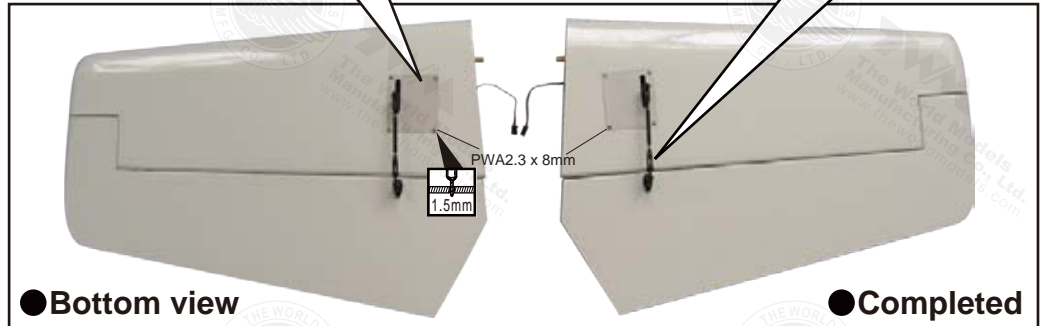
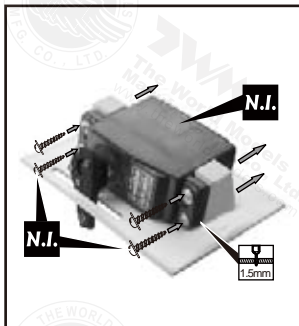
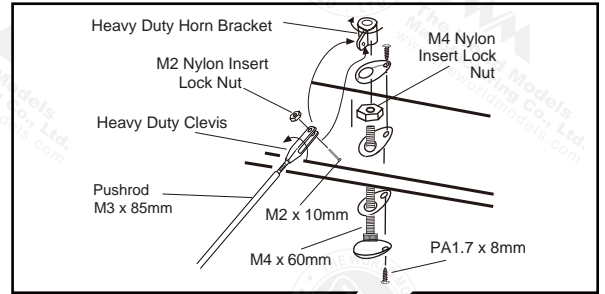
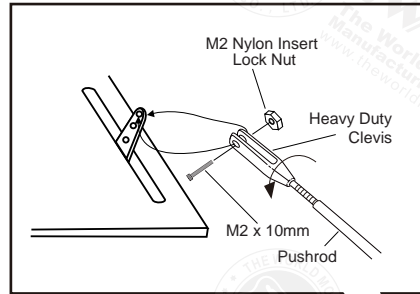
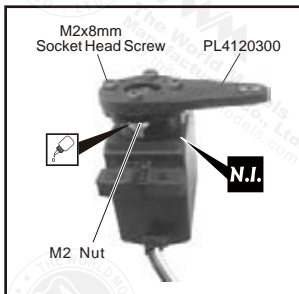
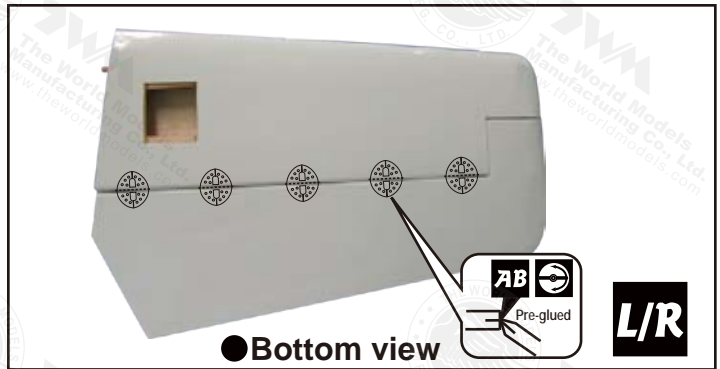
M4x60mm Socket Head Screw



PWA2.3x8mm Screw



M4 Nylon Insert Lock Nut

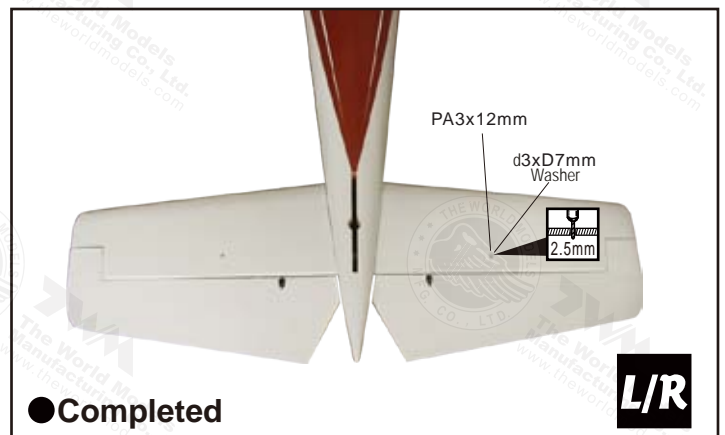
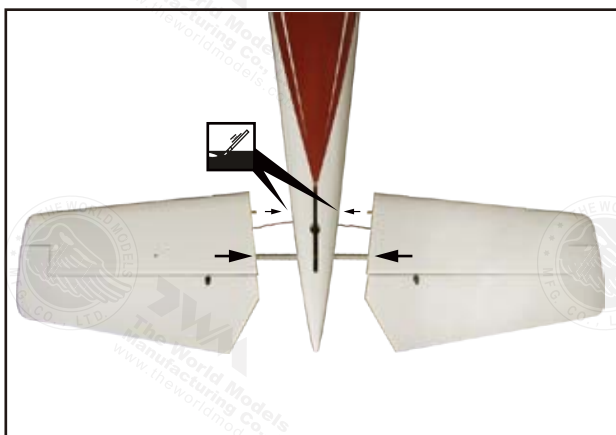
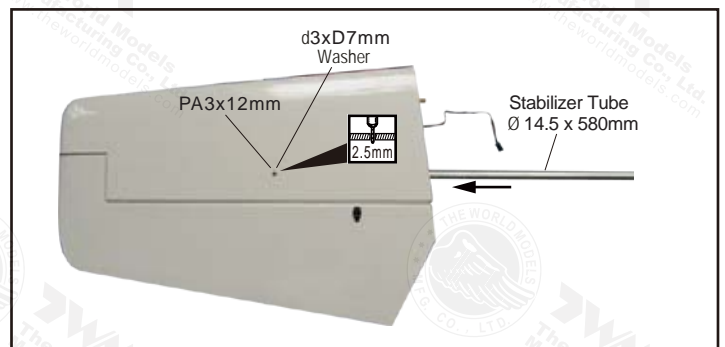


4 Stabilizer & Elevator

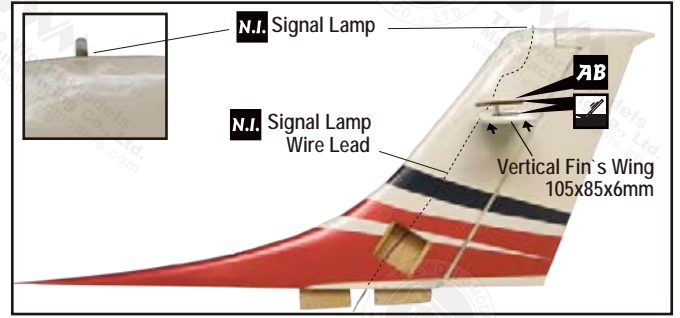
PA3x12mm Screw



d3xD7mm Washer



5 Vertical Fin & Rudder



6 Rudder Pushrod

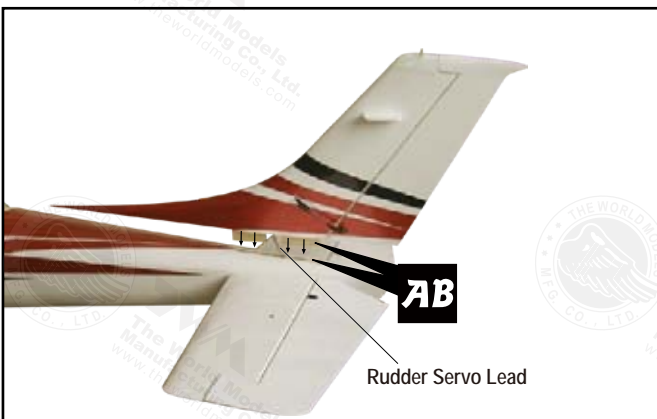
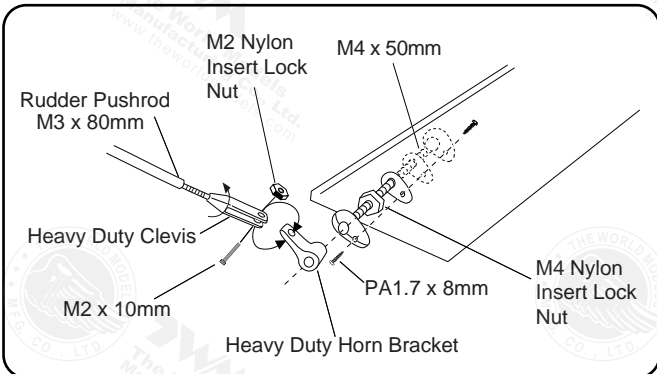
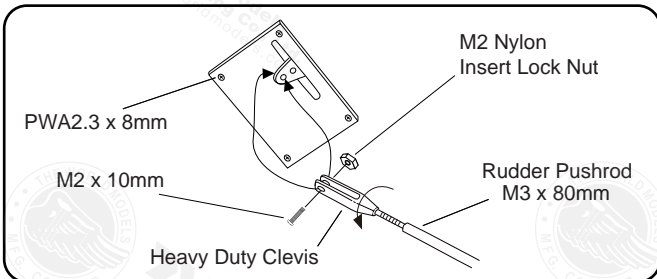
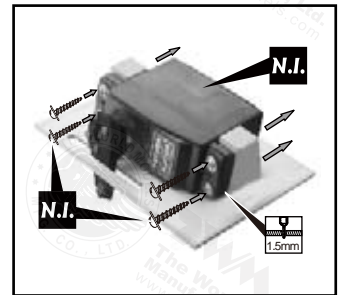
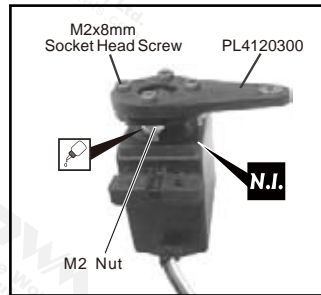
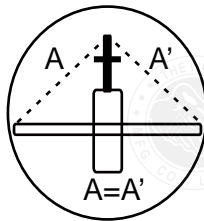
M4x50mm Socket Head Screw



PWA2.3x8 mm Screw

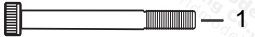


M4 Nylon Insert Lock Nut



7 Front Landing Gear

M5x70mm Socket Head Screw



M4x6mm Socket Head Screw



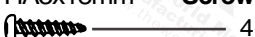
HM4x20mm Screw



HM3x12mm Screw



HA3x18mm Screw



HA3x30mm Screw



M5 Nylon Insert Lock Nut



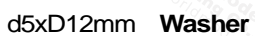
M4 Nylon Insert Lock Nut



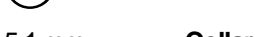
M3 Nylon Insert Lock Nut



d5xD12mm Washer



5.1 mm Collar



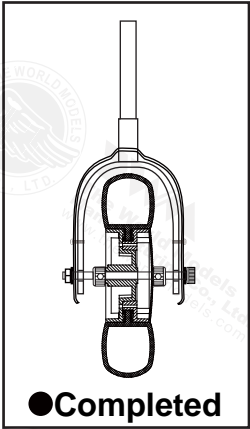
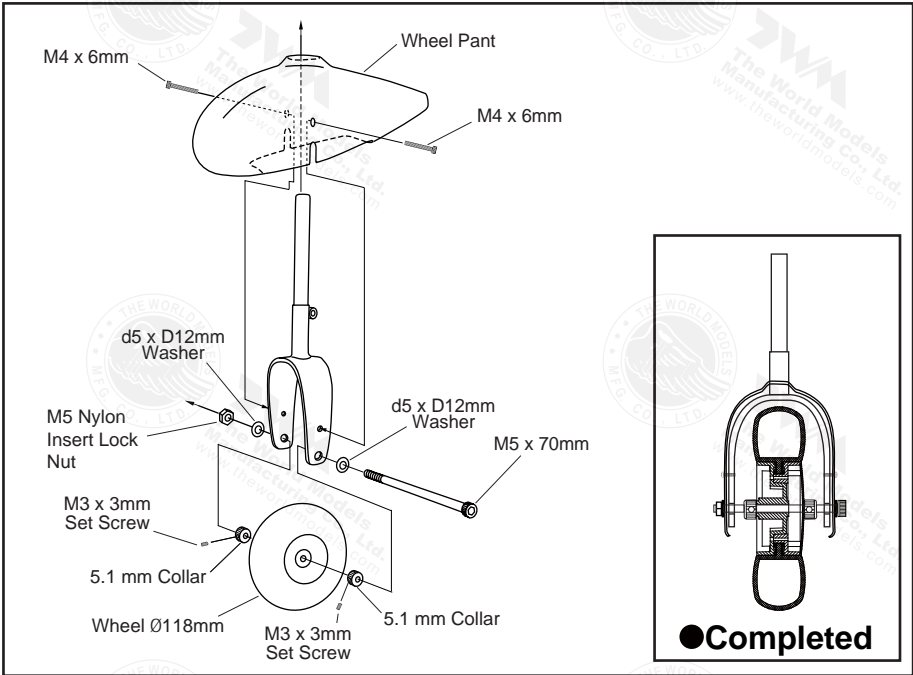
6.1 mm Collar



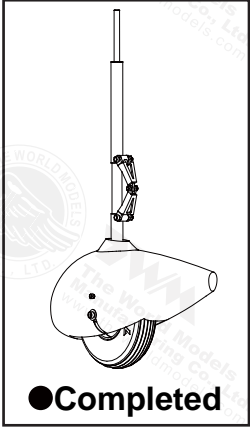
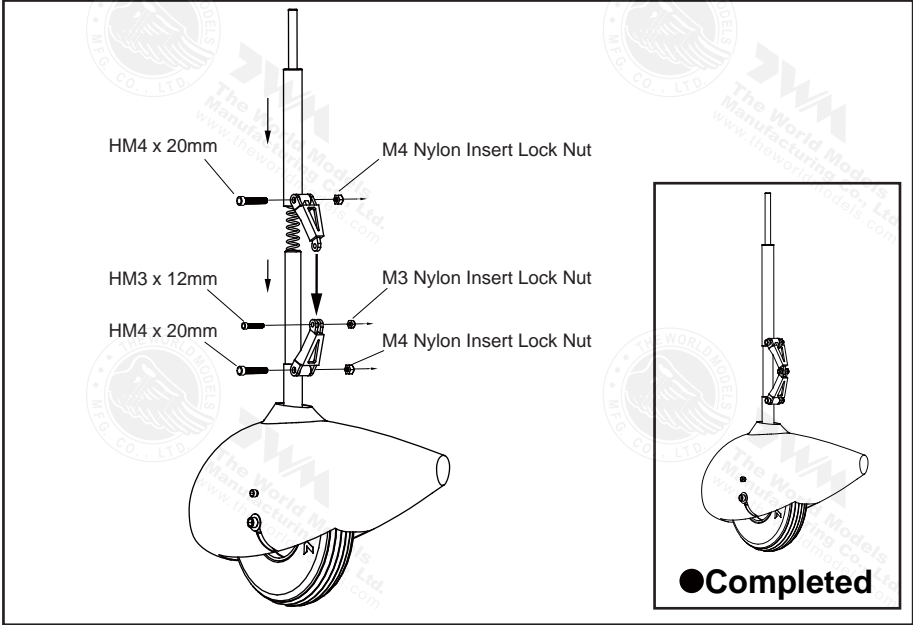
M3x3mm Set Screw



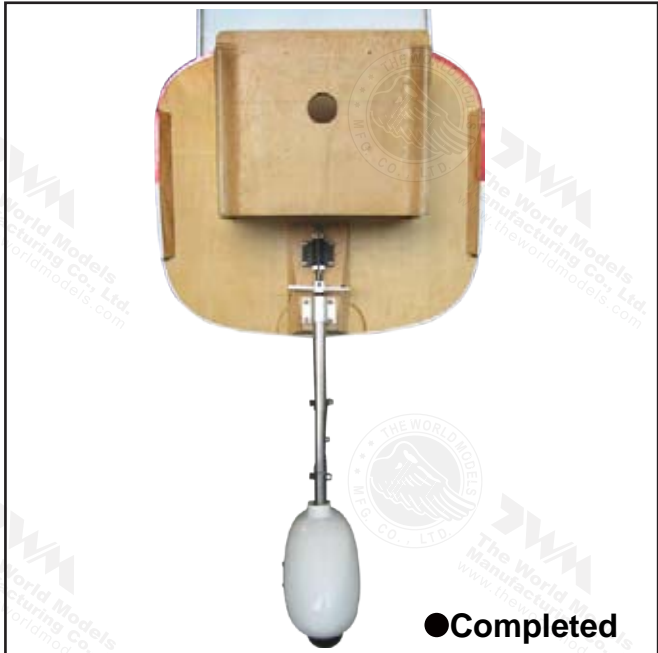
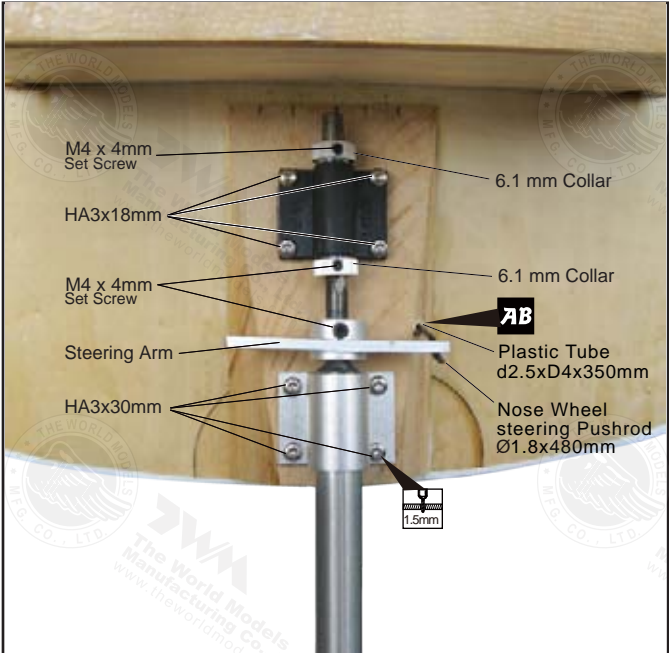
M4x4mm Set Screw



●Completed



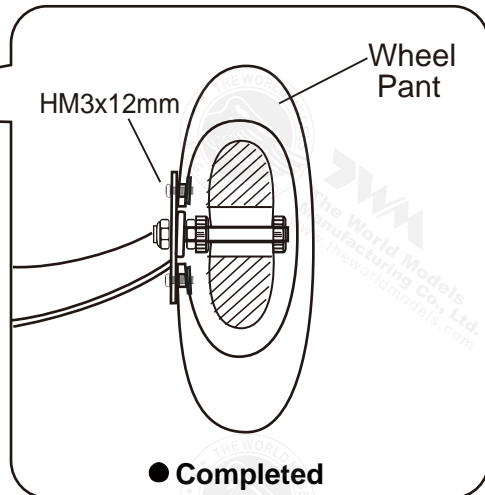
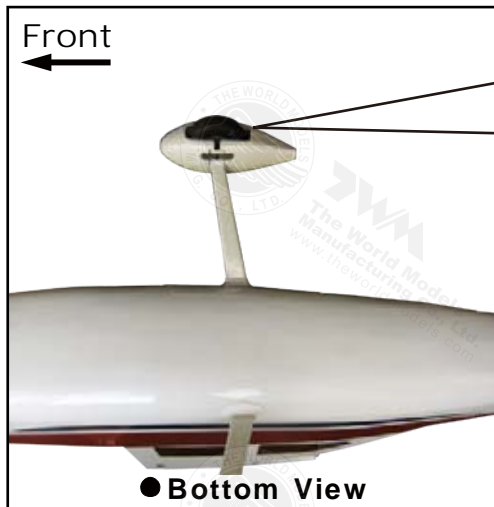
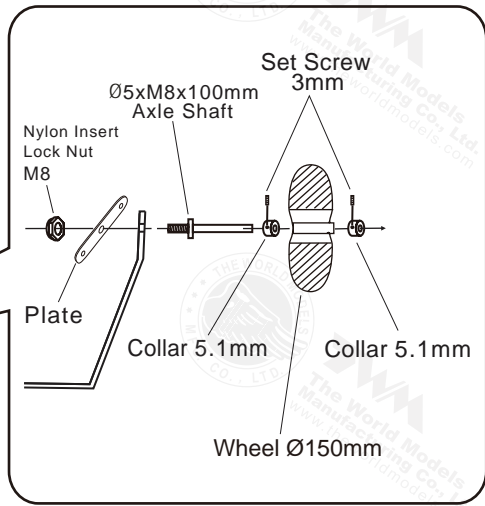
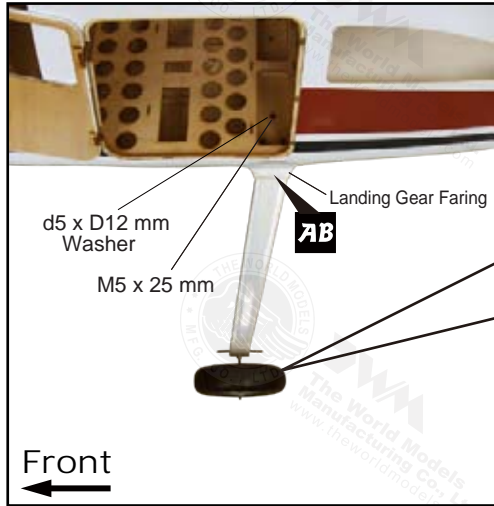
●Completed



●Completed

8 Main Landing Gear

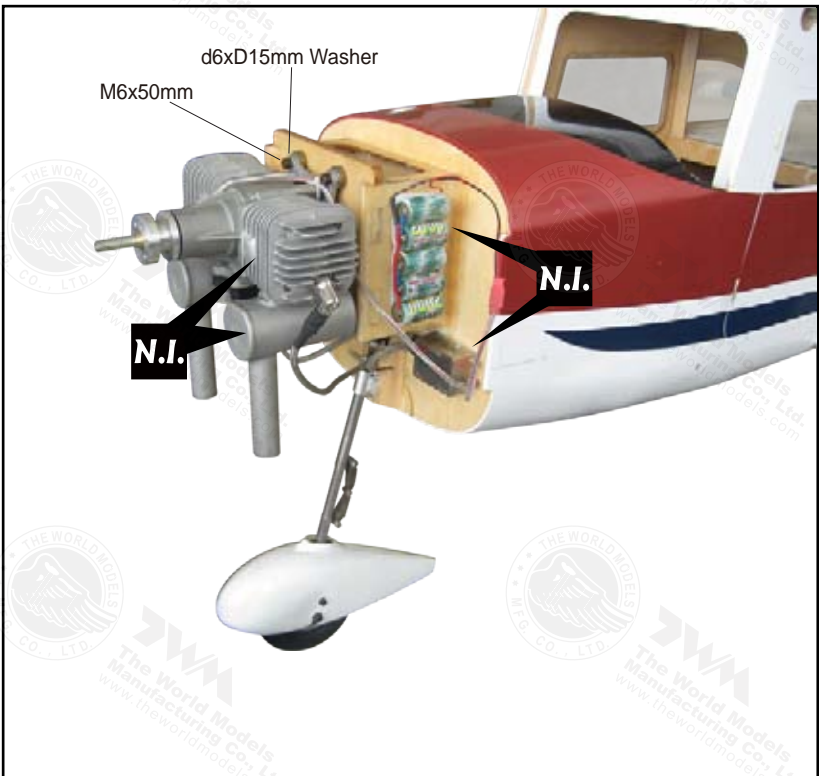
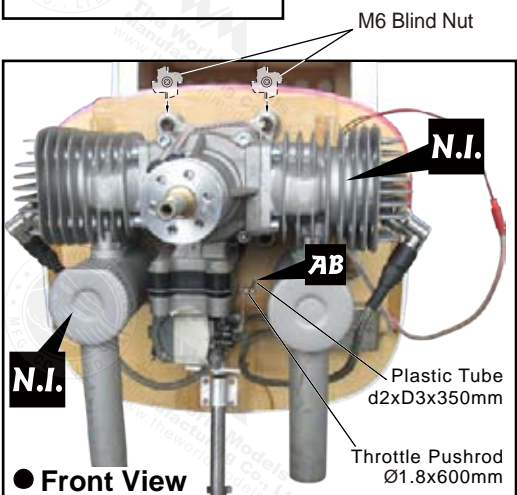
- Ø5xM8x100mm Axle Shaft — 2
- M5x25mm Socket Head Screw — 6
- HM3x12mm Screw — 4
- d5xD12mm Washer — 6
- M8 Nylon Insert Lock Nut — 2
- 5.1mm Collar — 4



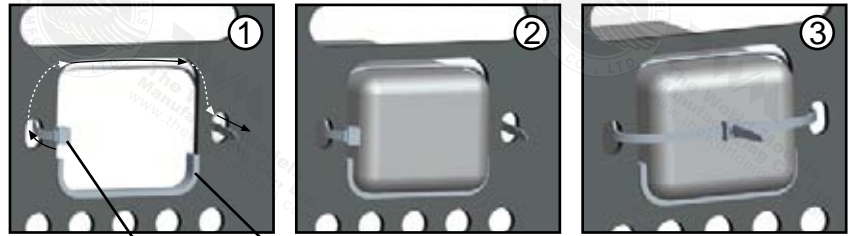
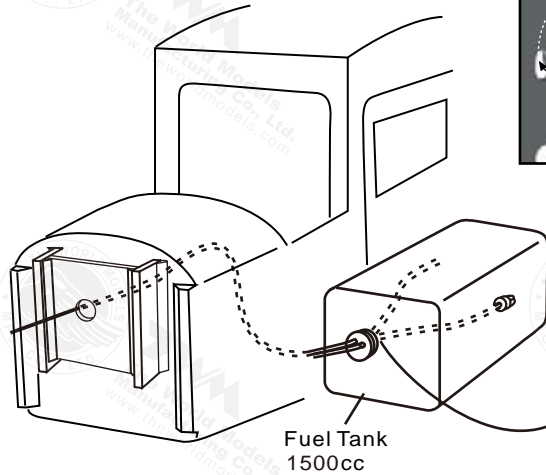
L/R

9 Engine

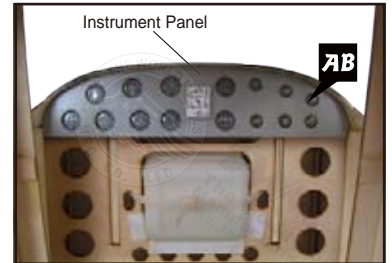
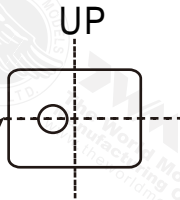
- M6x50mm Socket Head Screw — 4
- d6xD15mm Washer — 4
- M6 Blind Nut — 4



10 Fuel Tank



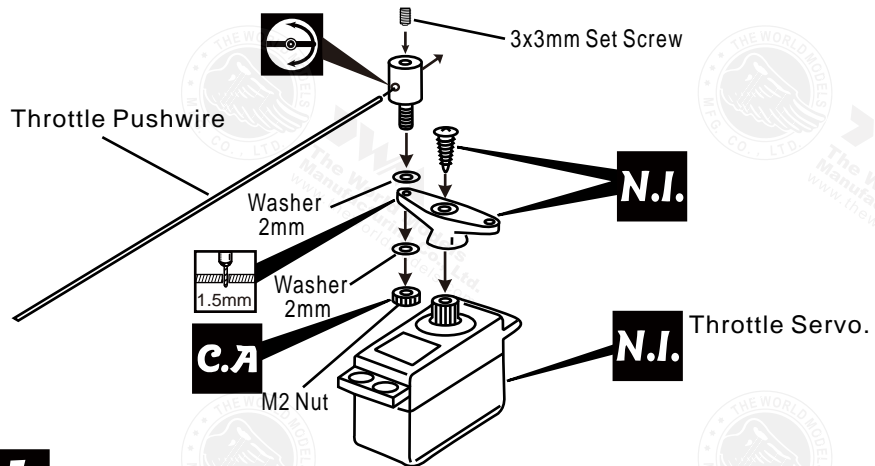
Cable Tie 1.5x8x500mm
Double-sided Tape 40x160mm



● Completed

11 Servo Set

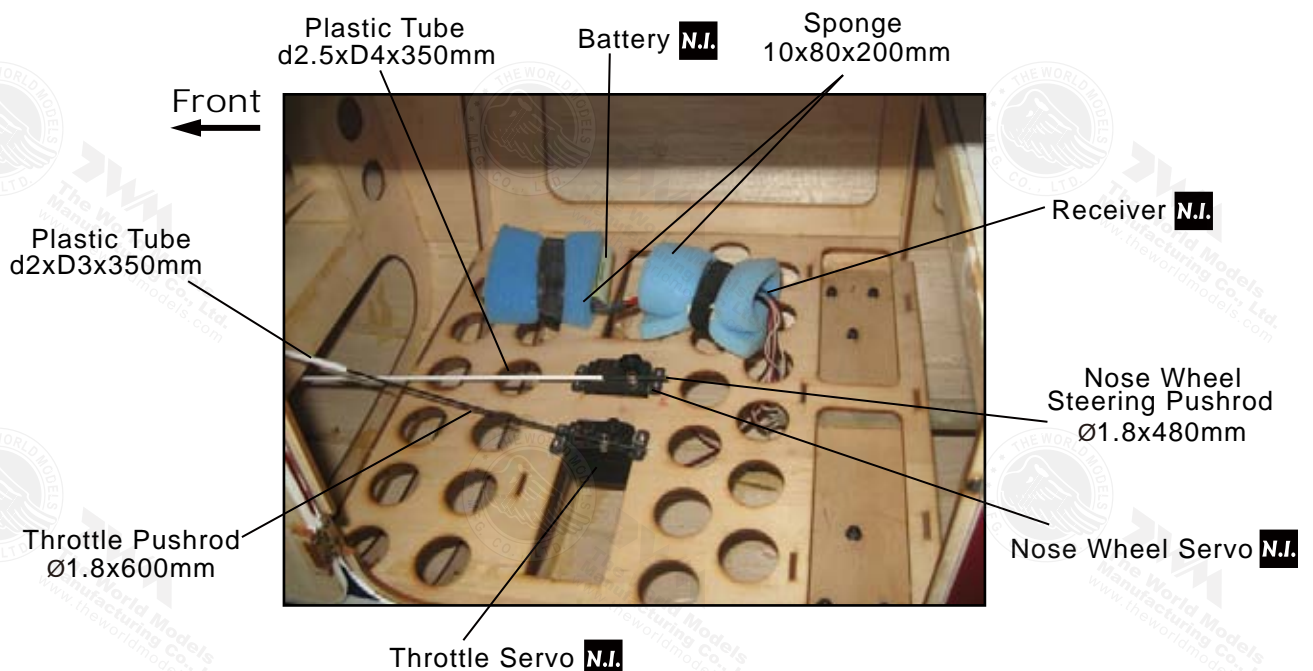
3x3mm Set Screw	2
Linkage Connector	2
M2 Nut	2
2mm Washer	4



! Please refer to the attached sheet for linkage connector installation.

12 Radio Equipment

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



13 Canopy

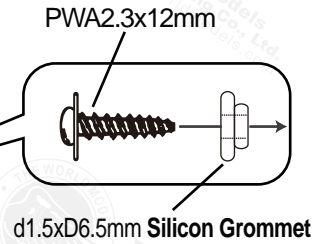
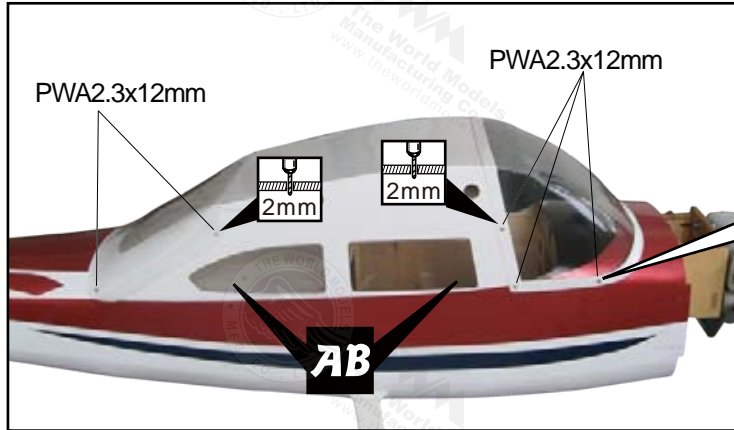
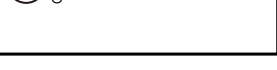
● First insert the grommet to the canopy then apply screw.

PWA2.3x12mm Screw

10

d1.5xD6.5mm Silicon Grommet

10



L/R

14 Pilot

Pilot Statues



● Completed

15 Cowling

● First insert the grommet to the cowling then apply screw.
Please refer to the attached sheet for usage of the transparent 3D template.

PA3x12mm Screw

8

KA2.3x8mm Screw

10

PWA2.3x12mm Screw

4

d2.5x8.5mm Grommet

8

d3xD7mm Washer

8

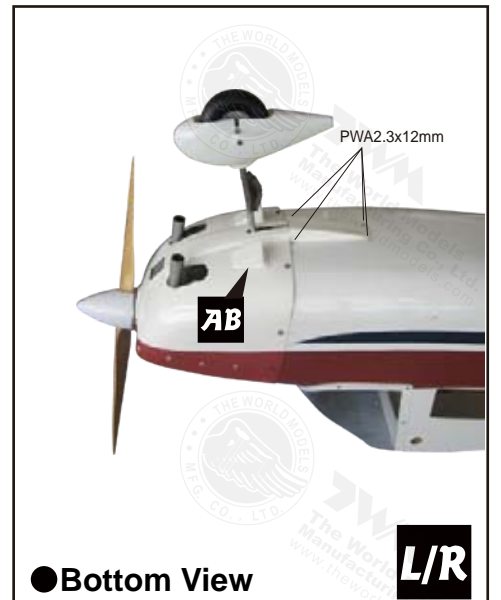
Quick Release Nylon Rivet

d2xD8mm

10



L/R



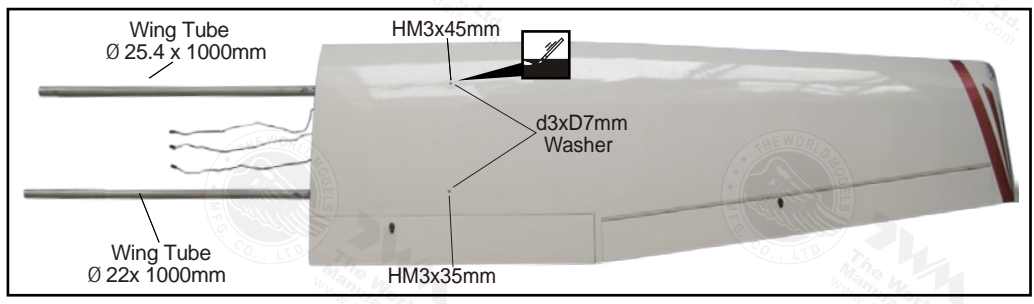
● Bottom View

L/R

16 Main Wing

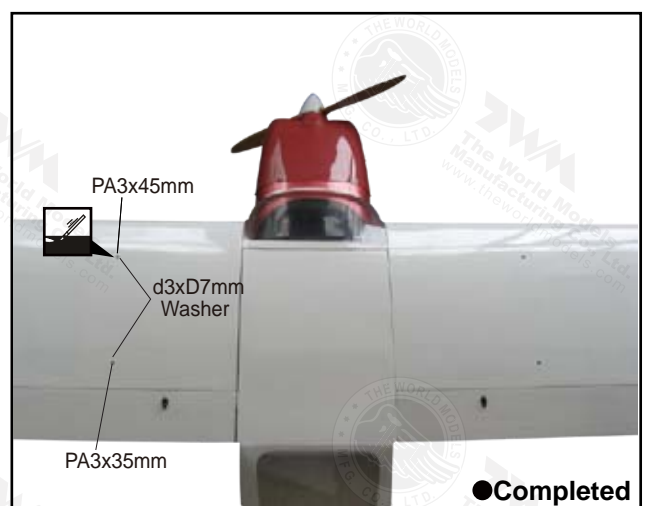
HM3x45mm	Screw	1
HM3x35mm	Screw	1
PA3x45mm	Screw	1
PA3x35mm	Screw	1
d3xD7mm	Washer	4

Step 1. Insert the aluminum wing tube with the pre-drilled hole end into the right wing. Align the lines marked at the wing root and wing tube and apply the HM3 x 45mm & HM3x35mm machine screw through the pre-drilled hole on top of the wing. (please confirm the alignment of the hole by putting a 2.5mm diameter rod through the pre-drilled wing hole before applying the screw) The hole on the wing tube is pre-threaded, do not over tighten the M3 screw, the set up is for future removal of the wing.



Step 2. Install the right wing to the fuselage by inserting the wing tube (now attached to the right wing) through the fuselage, then install the left wing.

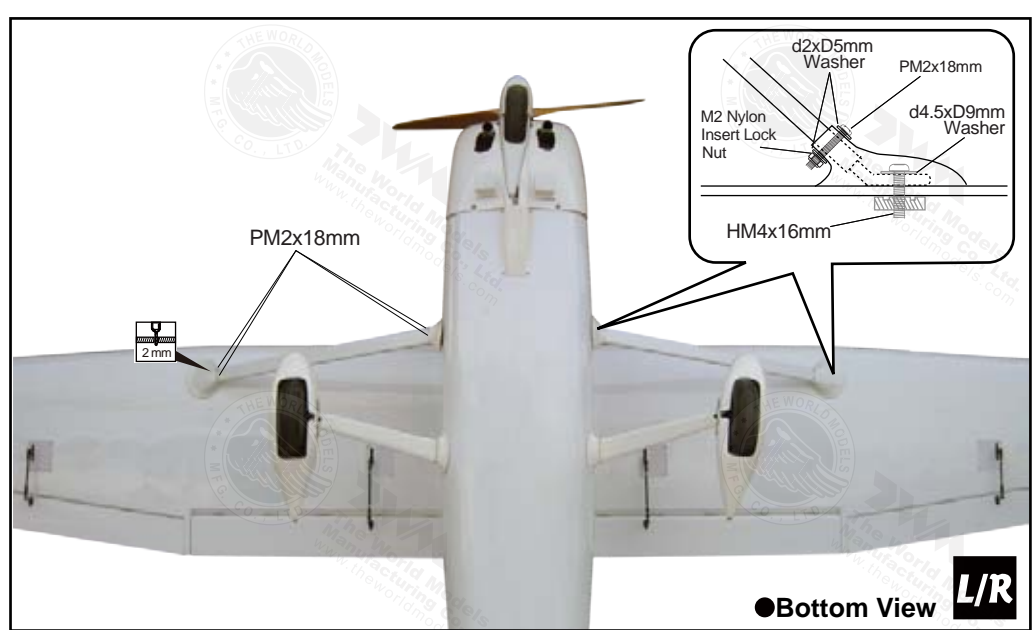
Step 3. Make sure the wings are resting against the fuselage tightly. Locate the pre-drilled 2.5mm hole at top of left wing, and drill along with 2.5mm drill bit until it passes through the wing tube. Apply the PA3x45mm & PA3x35mm self-tapping screw.




Note : It is recommended that the wing tube stays with the left wing. Removal of the wings could be achieved by removing the right wing machine screw, the right wing then the left wing with wing tube. If removal of wing tube from left wing is also required, it is recommended that instead of applying self-tapping screw in step 3, you pre-tap with M3 thread cutter and apply M3 machine screw.

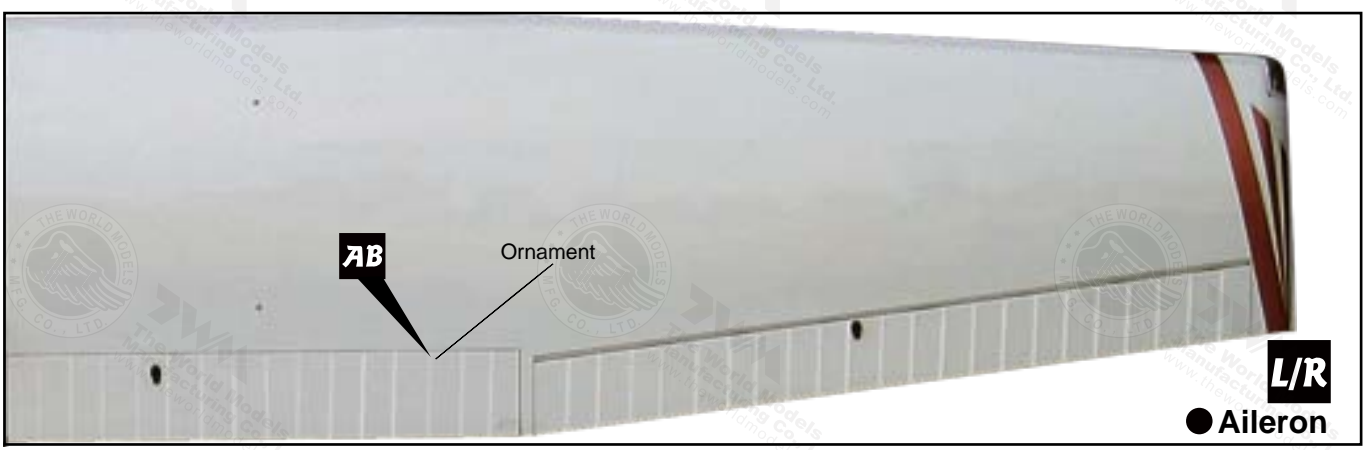
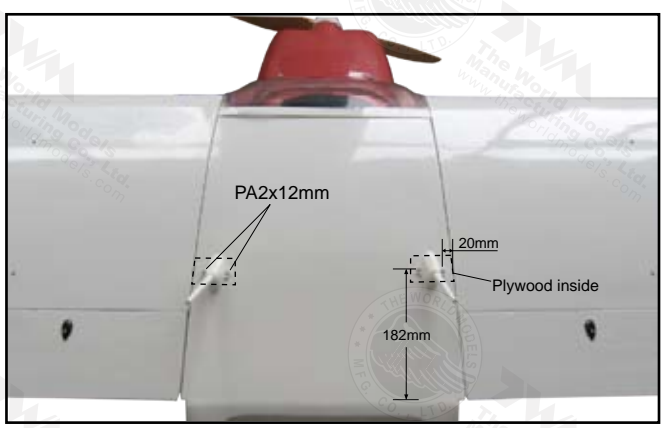
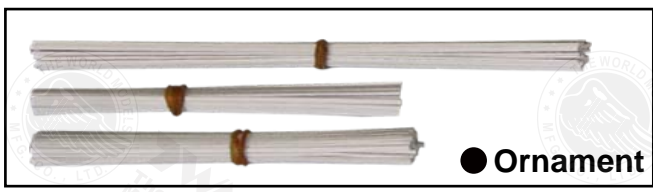
17 Wing Struts

HM4x16mm	Screw	4
PM2x18mm	Screw	8
M2 Nylon Insert Lock Nut		8
d4.5xD9mm	Washer	4
d2xD5mm	Washer	16



18 Antenna & Ornament

PA2x12mm Screw
 4



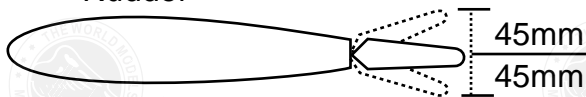
19 Decals



20 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.

Rudder



Elevator



Flaps (near fuselage)



Ailerons (away from fuselage)



21C.G.

The ideal C.G. position is 153mm (6 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.



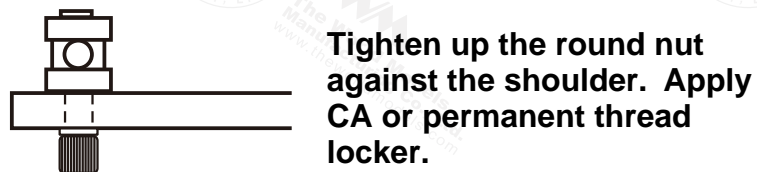
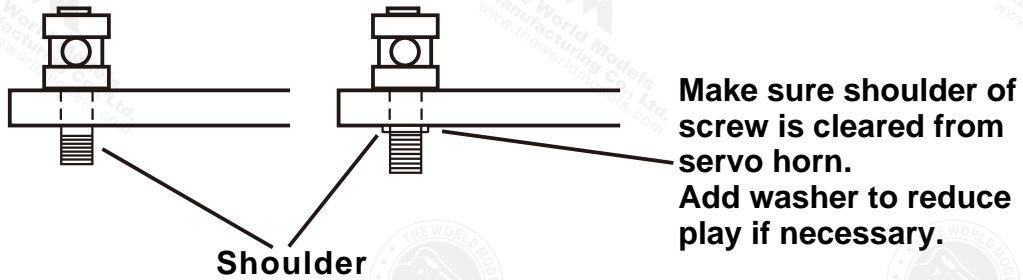
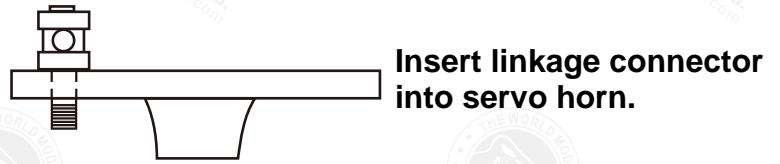
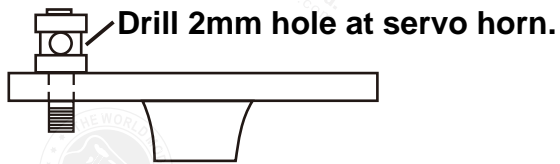
! Warning!

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.
- # **100CC SKY LINK** is specially designed to be powered by **100 c.c. gasoline** 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: _____

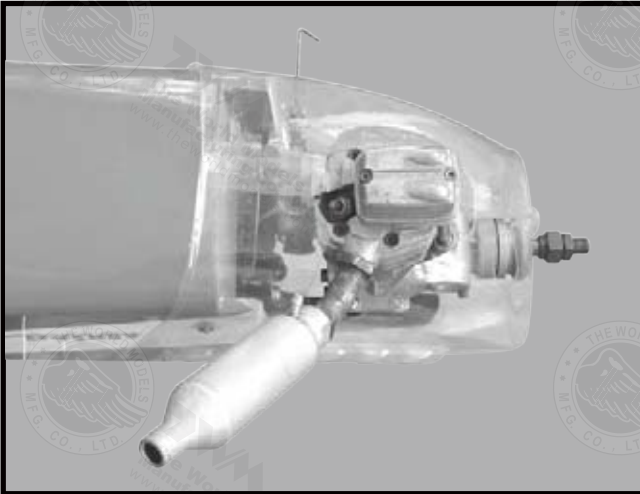
Please call AirBorne Models at 925 371 0922 for any assistance in filling this form. Thank you very much for purchasing our product.

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



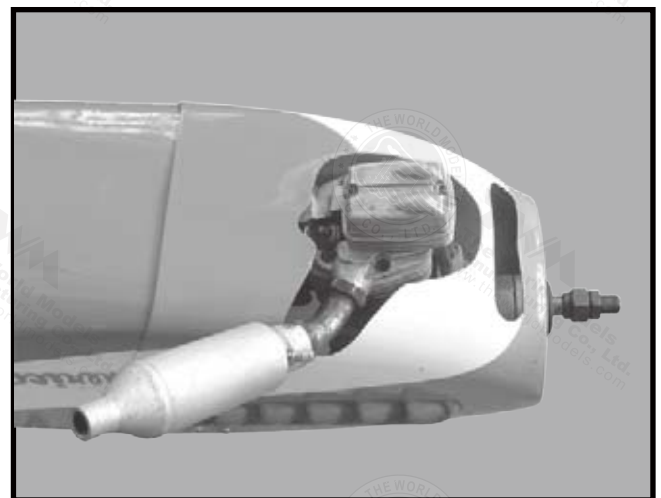
2



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)

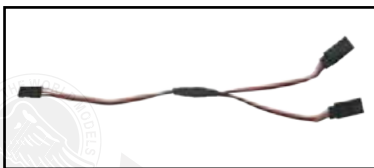
180mm Extension

Code No.	Size	Package
KW0011800	180mm	1 set



180mm Y-Cord

Code No.	Size	Package
KW0021800	180mm	1 pc



Charge Receptacles

Code No.	Size	Package
KP0041300		



Fuel Tubing Clip

Code No.	Size	Package
HW4201550	D5.5mm	6 pcs
HW4201450	D4.5mm	6 pcs



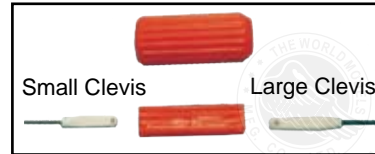
Detachable Transmitter Stand

Code No.	Size	Package
MS9111500	225x115mm	1 set



Clevis Wrench

Code No.	Size	Package
PL8210010		1 set



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

Field Stand

Code No.	Size	Package
MS9111450	600 x 240 x 350mm	1 pc



Neoprene Tube

Code No.	Size	Package
PT1114050	D5xd2.5mm	2m
PT1114070	D6xd3mm	2m

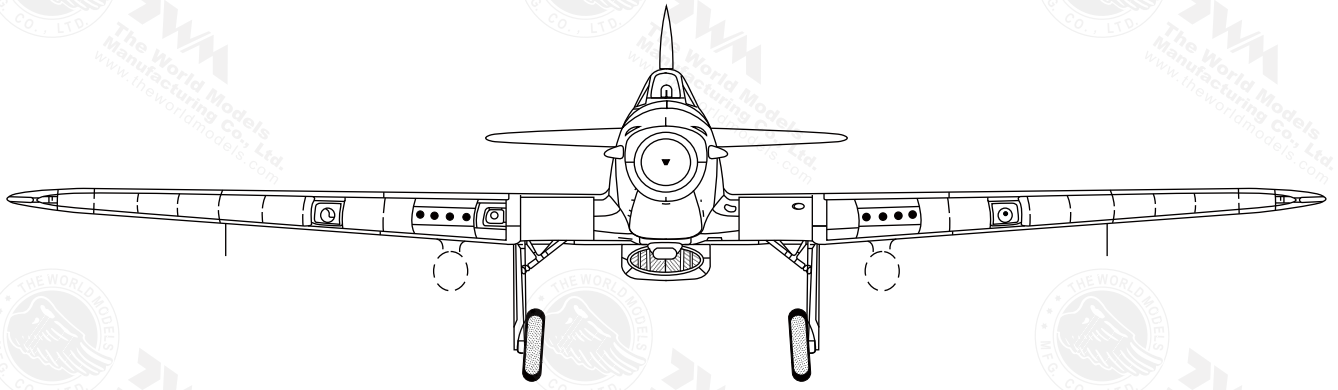


- Perfect gasoline tubing.
- Remain soft and flexible after long time use.
- Black in color.

Wind sock

Code No.	Size	Package
AT3001052	D260x900mm	1 pc





Ducted Fan

Pattern

Warbirds

Funfly

Scale

Electric

Sports

Glider

Trainer Boat

Accessories

Covering

(Lightex / Toughlon)



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