DESTRUCTION MANUAL

EXTRA 330L 60



0.60-0.75 cu. in. displacement 2-stroke 0.91 cu. in. displacement 4-stroke

Requires: 4-channel radio w/ 5 standard servos

Specifications

Wing Span
Wing Area
Flying Weight
Fuselage Length

65.0 in / 1650mm

797 sq in / 51.4 sq dm

8.2 lbs / 3720g

56.0 in / 1420mm

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.



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

^{*} Specifications are subject to change without notice.*

EXTRA 330L 60

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BEFORE YOU BEGIN

- Read through the manual before you begin, so you will have an overall idea of what to do.
- 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



Ensure smooth non-binding movement while assembling.



Assemble left and right sides the same way.



Cut off shaded portion.



Peel off shaded portion covering film.



Must be purchased separately!



Drill holes with the specified diameter (here: 3mm).



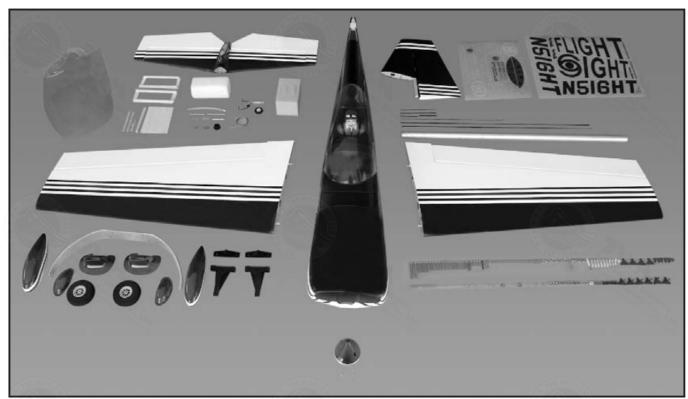
Pierce the shaded portion covering film.



Pay close attention here!



Do not overlook this symbol!

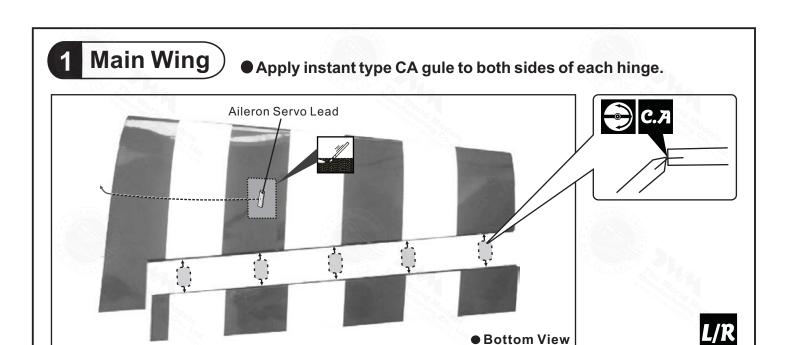


Parts List

- 1. MAIN WING -- 1 pair
- 2. SCREW PB2x25mm -- 6 pcs SCREW PWA2x8mm -- 8 pcs FUEL TUBE Ø6x5mm -- 4 pcs STRAPER PL4112102 -- 2 pcs CLEVIS PL4112103 -- 2 pcs TRI-HORN M3x14mm PL4111185 -- 2 sets PUSHROD Ø1.8x120mm w/ Threads (For Aileron) -- 2 pcs SERVO MOUNTING PANEL PL5310000-- 1 pair
- 3. STABILIZER & ELEVATOR -- 1 set FUSELAGE -- 1 pc.
- 4. VERTICAL FIN & RUDDER -- 1 set
- 5. TAIL LANDING GEAR PL7100001 -- 1 set TAIL WHEEL Ø30mm -- 1 pc. COLLAR Ø2.1mm w/ set screw -- 1 set SCREW PA3x12mm -- 2 pcs
- 6. SCREW PM2x25mm -- 3 pcs
 M2 NUT -- 3 pcs
 FUEL TUBE Ø6x5mm -- 2 pcs
 CLEVIS PL4112103 -- 2 pcs
 TRI-HORN M3x14mm (w/ o-Base For Rudder) PL4111185 -- 2 sets
 RIGGING COUPLER Ø1.8x27mm w/ Threads HW4201304 -- 2 pcs
 COPPER TUBE d2.5xD3.2x8mm -- 2 pcs
 WIRE Ø1x700mm (For Rudder) -- 2 pcs
- 7. SCREW PB2x25mm -- 6 pcs FUEL TUBE Ø6x5mm -- 2 pcs CLEVIS PL4112103 -- 2 pcs TRI-HORN M3x14mm (For Elevator) PL4111185 -- 2 sets PUSHROD Ø1.8x600mm w/ Threads (For Elevator) -- 2 pcs
- 8. MAIN LANDING GEAR HW2404045 -- 1 set
 MAIN LANDING GEAR COVER -- 1 pair
 WHEEL Ø76mm PL3111760 -- 2 pcs
 COLLAR Ø5.1mm w/ set screw -- 4 sets
 SCREW HM4x16mm -- 4 pcs
 SCREW PM5x43mm -- 2 pcs
 SCREW PWA2.3x8mm -- 14 pcs
 SCREW KA2.3x8mm -- 4 pcs
 M5 NUT -- 2 pcs
 WASHER d5xD12mm -- 4 pcs
 QUICK RELEASE NYLON RIVET PL1208042 -- 4 pcs
 WHEEL PANTS -- 1 pair
 WHEEL PANT DECORATIVE COVER -- 1 pair
 PLASTIC WHEEL COLLAR d5.1xD9x3mm -- 2 pcs
 ALUMINUM PLATE 1mm -- 2 pcs
- ENGINE MOUNT PL5111070 -- 1 set SOCKET HEAD SCREW M4x25mm -- 4 pcs WASHER d4xD12mm -- 4 pcs M4 BLIND NUT -- 4 pcs WOODEN DOWEL Ø5.5x8mm (For Firewall) -- 4 pcs

- FUEL TANK 380cc PL1111380 1 set DOUBLE-SIDED TAPE 40x100mm – 1 pc. CABLE TIE 1.5x5x400mm – 1 pc.
- 11. SOCKET HEAD SCREW M4x30mm -- 4 pcs WASHER d4xD9mm -- 8 pcs M4 NUT -- 8 pcs PLYWOOD 2x93.8x120mm (Engine Box Upper Plate) (F21) -- 1 pc. THROTTLE PUSHWIRE Ø1.2x350mm -- 1 pc. PLASTIC TUBE d2xD3x140mm -- 1 pc.
- 12. LINKAGE CONNECTOR Ø2.1mm HW7111060 -- 1 set
- 13. BALSA 6x6x41 (For Elevator & Rudder Servo Stand) (F43) 4 pcs PLYWOOD 3x57x154.6mm (For Elevator Servo) (F44A) 1 pc. BALSA 6x6x143.6mm (For Elevator Servo) (F45B) 1 pc. BALSA 6x6x150.3mm (For Elevator Servo) (F45C) 1 pc. PLYWOOD 3x61x144.6mm (For Rudder Servo) (F45C) 1 pc. PLYWOOD 3x61x144.6mm (For Rudder Servo) (F45) 1 pc. BALSA 6x6x131.5mm (For Rudder Servo) (F45A) 1 pc. BALSA 6x6x140.7mm (For Rudder Servo) (F45A) 1 pc. COPPER TUBE d2.5xD3.2x8mm 2 pcs STRAPER PL4112102 1 pc. FUEL TUBE Ø6x5mm 1 pc. SPONGE 60x70x160mm (For Radio Equipment) 1 pc. PUSHROD Ø1.8x100mm (For Elevator) 1 pc. RIGGING Z BEND Ø1.8x27mm (For Rudder) HW4201303 2 pcs PUSHROD CONNECTOR 4x9x20mm PL4410010 1 set
- 14. COWLING -- 1 pc.
 TRANSPARENT 3D TEMPLATE -- 1 pc.
 SPINNER Ø70mm PH24W0700 / PH24B0700 -- 1 set
 SCREW PWA2.6x12mm -- 4 pcs
 SILICON GROMMET d1.5xD6.5mm -- 4 pcs
- 15. WING TUBE Ø22x814mm -- 1 pc. WIRE Ø0.8mm -- 2 pcs SELF-TIGHTENING LATCHING PIN -- 2 pcs
- 16. CANOPY 1 pc.
 PILOT PC001085A 1 pc.
 SCREW PM2.5x25mm 2 pcs
 SCREW PWA2.3x8mm 6 pcs
 SILICON GROMMET d1.5xD6.5mm 6 pcs
 WASHER d2.5xD8mm 2 pcs
 DOUBLE-SIDED TAPE 900mm 1 pc.
 PLASTIC PLATE (For Pilot Stand) 1 pc.
- 17. DECALS: A156DEC -- 1 set

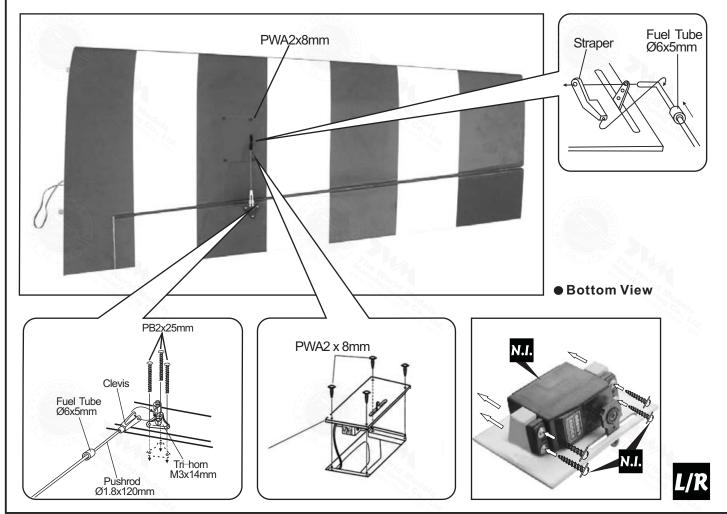
COVERING:-TOUGHLON STL 100 WHITE
TOUGHLON STL 201 BLACK
TOUGHLON STL 241 TURQUOISE
TOUGHLON STL 360 VIOLET
TOUGHLON STL 311 FERRARIRED
TOUGHLON STL 351 DARK BLUE

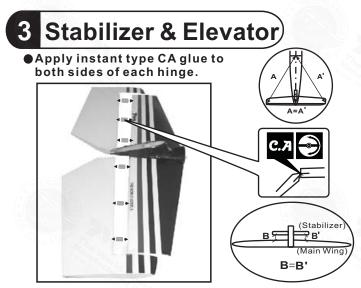


2 Aileron Servo

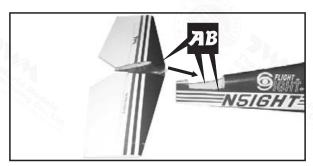
PB2x25mm Screw (http://www.screw) Screw (http://www.ax8mm Screw) 8

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



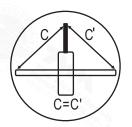


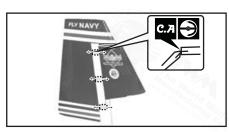
Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.





 Apply instant type CA glue to both sides of each hinge.

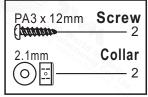


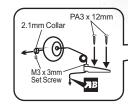




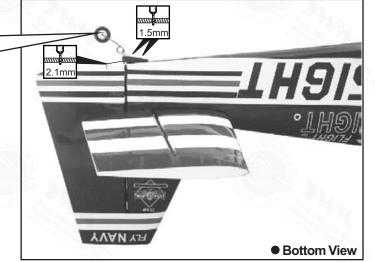


5 Tail Landing Gear

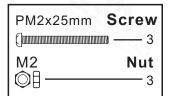




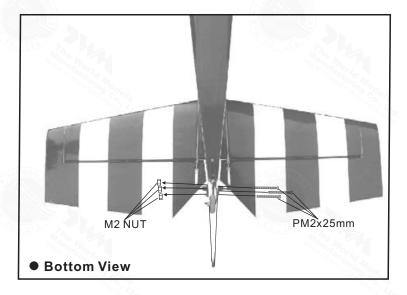


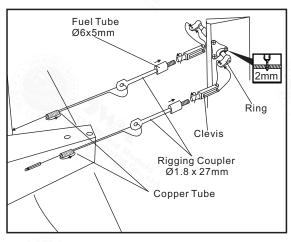


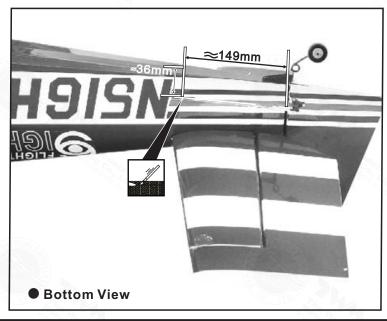
6 Rudder Pullwire



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



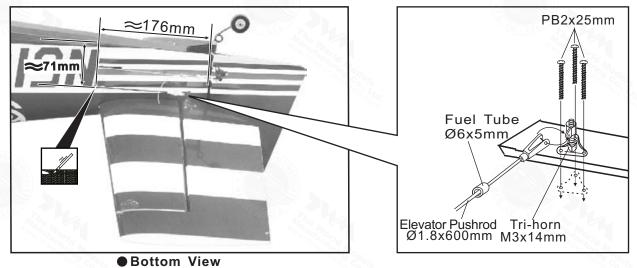




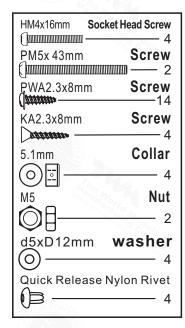
L/R

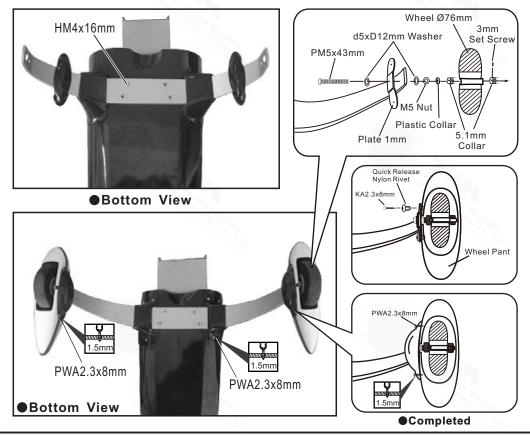
7 Elevator Pushrod

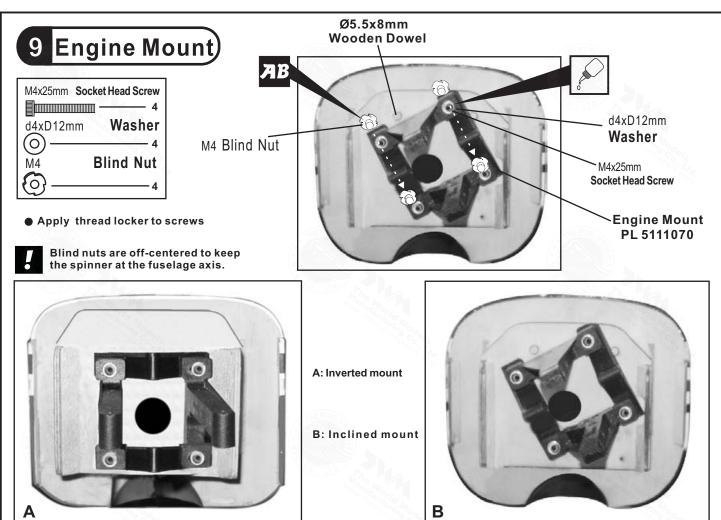
Ø1mm pilot holes for World Models tri-horn are pre-drilled.
Please look for pin-hole marks at under side of control surfaces.

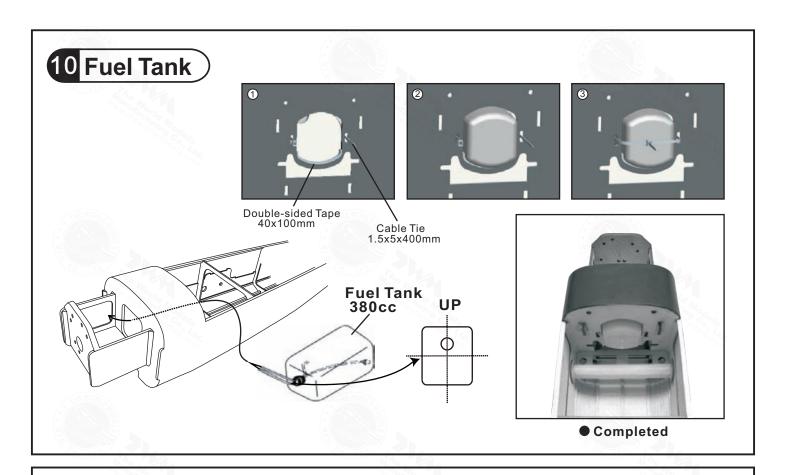


8 Main Landing Gear









11 Engine

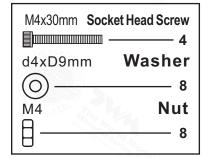
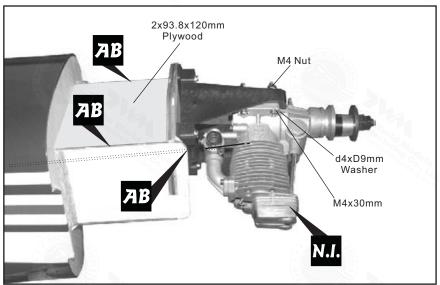
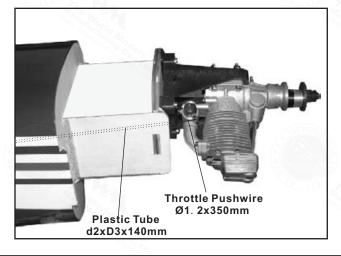
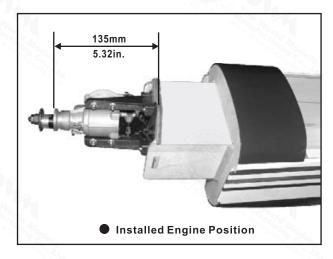
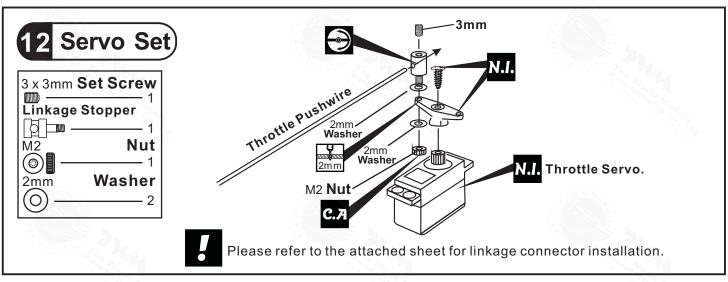


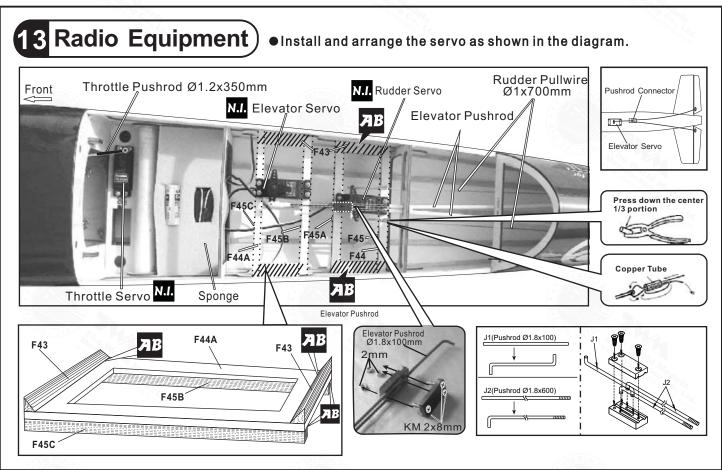
Illustration is for inverted mounting. You can mount the engine upright or sideways simply by rotation the engine mount. Thrust angles will not be affected.

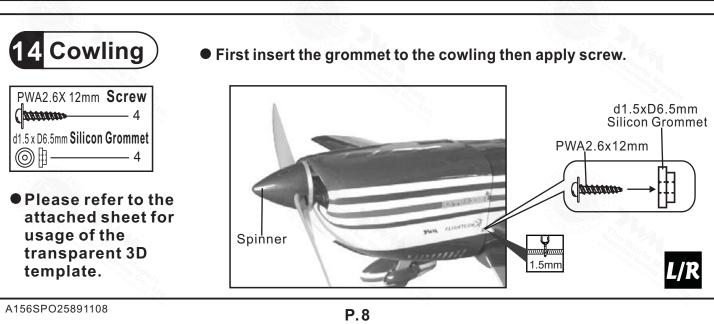












15 Main Wing

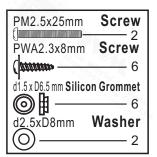


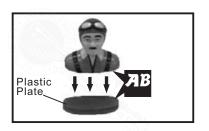




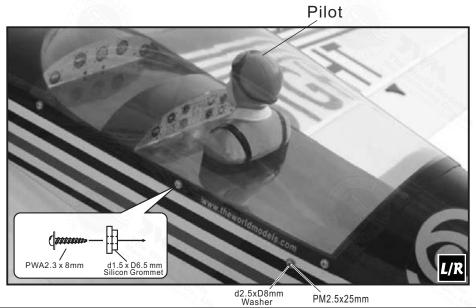


16 Canopy & Pilot





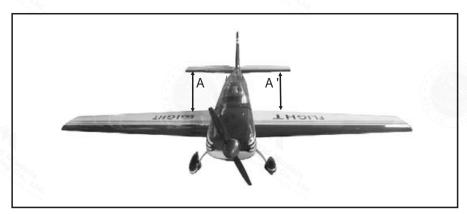
• First insert the grommet to the canopy then apply screw.

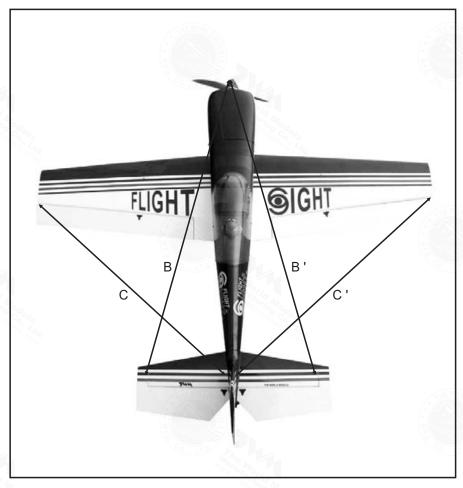


17 Wing Setting

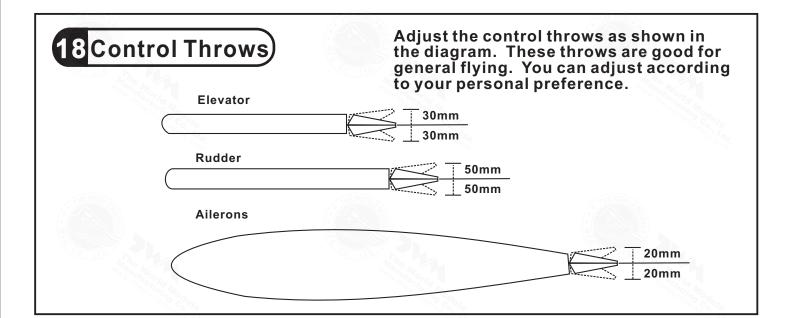
• Adjust the wing and fuselage configuration as shown in the diagrams.







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



19 C.G.

The ideal C.G. position is 120mm (4.8 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.



http://www.theworldmodels.com/para/instruction/instructionManuals.php

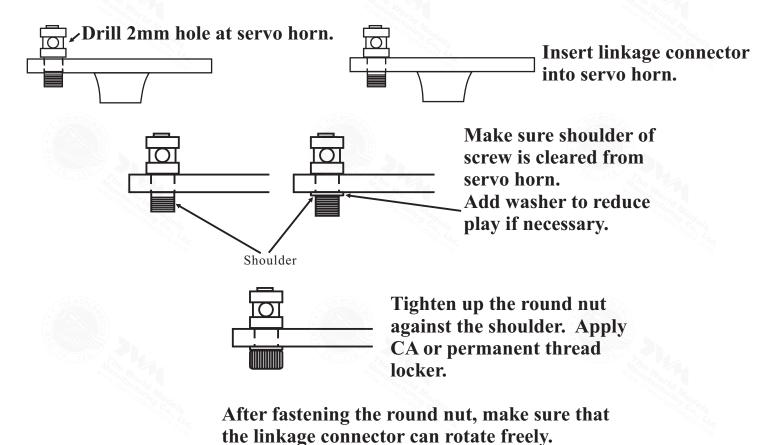
! Warning!

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** 3306 60 is specially designed to be powered by **2C 0.60-0.75 or 4C 0.91** 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. 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



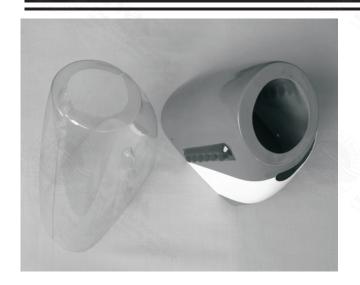
Product Registration Form (US Customers)

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.

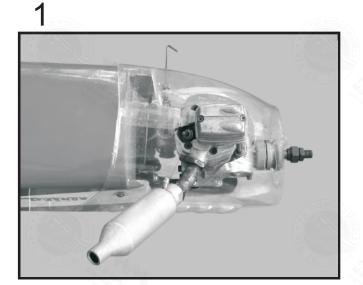
1.Name:	
2.Address:	
3.Phone #:	e-mail:
4.Model:	
	uselage QC# d on wing and fuselage)
5.Date of Purchase:	
6.Store Name:	ANS WORLD

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.



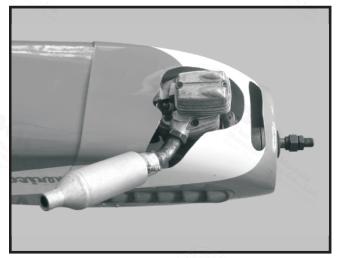
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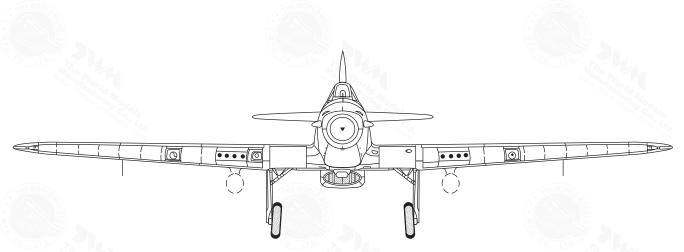
3



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.



Ducted Fan

Pattern

Warbirds

Funfly

Scale

Electric

Sports

Glider

Trainer

Boat

Accessories

Covering

(Lightex / Toughlon)

