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.

* Specifications are subject to change without notice.*
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:

- **AB**: Apply epoxy glue.
- **C.A.**: 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!**
- **Warning!** 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 Ø2.5xD3.2x8mm -- 2 pcs
   WIRE Ø1.7x100mm (For Rudder) -- 2 pcs

7. SCREW PB2x25mm -- 6 pcs
   FUEL TUBE Ø6x5mm -- 2 pcs
   COLLAR Ø3.1mm 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
   PLASTIC WHEEL COLLAR d5.1xD9x3mm -- 2 pcs
   ALUMINUM PLATE 1mm -- 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
   PLASTIC WHEEL DECORATIVE COVER -- 1 pair
   PLASTIC WHEEL COLLAR d5.1xD9x3mm -- 2 pcs
   ALUMINUM PLATE 1mm -- 2 pcs

9. ENGINE MOUNT PL5111070 -- 1 set
   SOCKET HEAD SCREW M4x25mm -- 4 pcs
   WASHER d6xD12mm -- 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 1.5x5x40mm -- 1 pc.
   SOCKET HEAD SCREW M4x30mm -- 4 pcs
   WASHER Ø4xxD9mm -- 8 pcs
   M4 NUT -- 8 pcs
   PLYWOOD 2x93.8x120mm (Engine Box Upper Plate) (F21) -- 1 pc.
   THROTTLE PUSHWIRE Ø1.2x350mm -- 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 2 BEND Ø1.8x27mm (For Rudder) HW4201303 -- 2 pcs
   PUSHROD CONNECTOR 4x8x20mm PL4140010 -- 1 set

10. FUEL TANK 380cc PL1111380 -- 1 set
    DOUBLE-SIDED TAPE 40x100mm -- 1 pc.
    CABLE TIE 1.5x5x40mm -- 1 pc.

11. SOCKET HEAD SCREW M4x30mm -- 4 pcs
    WASHER Ø4xxD9mm -- 8 pcs
    M4 NUT -- 8 pcs
    PLYWOOD 2x93.8x120mm (Engine Box Upper Plate) (F21) -- 1 pc.
    THROTTLE PUSHWIRE Ø1.2x350mm -- 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 2 BEND Ø1.8x27mm (For Rudder) HW4201303 -- 2 pcs
    PUSHROD CONNECTOR 4x8x20mm PL4140010 -- 1 set

12. LINKAGE CONNECTOR Ø2.1mm HW711060 -- 1 set

13. BALSA 6x6x41 (For Elevator & Rudder Servo Stand) (F43) -- 4 pcs
    PLYWOOD 3x7x154.6mm (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 3x61.5x144.6mm (For Rudder Servo) (F44) -- 1 pc.
    BALSA 6x6x131.5mm (For Rudder Servo) (F45) -- 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 2 BEND Ø1.8x27mm (For Rudder) HW4201303 -- 2 pcs
    PUSHROD CONNECTOR 4x8x20mm PL4140010 -- 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
    COPPER TUBE d2.5xD3.2x8mm -- 2 pcs
    STRAPER PL4112102 -- 1 pc.
    WIRE Ø0.8mm -- 2 pcs
    SELF-TIGHTENING LATCHING PIN -- 2 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 FERRARIED
TOUGHLon STL 351 DARK BLUE
1 Main Wing

- Apply instant type CA gule to both sides of each hinge.

![Main Wing Diagram]

2 Aileron Servo

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

![Aileron Servo Diagram]
3 Stabilizer & Elevator

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

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

4 Tail Landing Gear

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3 x 12mm Screw</td>
<td>2</td>
</tr>
<tr>
<td>2.1mm Collar</td>
<td>2</td>
</tr>
<tr>
<td>M3 x 3mm Set Screw</td>
<td></td>
</tr>
</tbody>
</table>

- Bottom View
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.

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

- HM4x16mm Socket Head Screw: 4
- PM5x43mm Screw: 2
- PWA2.3x8mm Screw: 14
- KA2.3x8mm Screw: 4
- 5.1mm Collar: 4
- M5 Nut: 2
- d5xD12mm Washer: 4
- Quick Release Nylon Rivet: 4

L/R

Bottom View

- HM4x16mm
- M4x25mm Socket Head Screw: 4
- d4xD12mm Washer: 4
- M4 Blind Nut: 4

Apply thread locker to screws

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

9 Engine Mount

- Ø5.5x8mm Wooden Dowel
- M4 Blind Nut
- d4xD12mm Washer
- M4x25mm Socket Head Screw

Engine Mount PL 5111070

A: Inverted mount
B: Inclined mount

A156SPO25891108

P.6
10 Fuel Tank

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.

Fuel Tank 380cc

Completed

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.
**12 Servo Set**

- **3 x 3mm Set Screw**: 3
- **Linkage Stopper**: 1
- **M2 Nut**: 1
- **2mm Washer**: 2

![Diagram of Servo Set](image)

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

**13 Radio Equipment**

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

![Diagram of Radio Equipment](image)

**14 Cowling**

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

![Diagram of Cowling](image)

- Please refer to the attached sheet for usage of the transparent 3D template.
**15 Main Wing**

First insert the grommet to the canopy then apply screw.

**16 Canopy & Pilot**

- PM2.5x25mm Screw 2
- PWA2.3x8mm Screw 6
- d1.5xD6.5mm Silicon Grommet 6
- d2.5xD8mm Washer 2

First insert the grommet to the canopy then apply screw.
Wing Setting

- Adjust the wing and fuselage configuration as shown in the diagrams.
18 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.

- Elevator: 30 mm, 30 mm
- Rudder: 50 mm, 50 mm
- Ailerons: 20 mm, 20 mm

19 C.G.

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

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 330L 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.

Drill 2mm hole at servo horn.

Insert linkage connector into servo horn.

Make sure shoulder of screw is cleared from servo horn.
Add washer to reduce play if necessary.

Tighten up the round nut against the shoulder. Apply CA or permanent thread locker.

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.

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)