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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>55 in / 1400 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>576.5 sq in / 37.2 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>5 lbs / 2280 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>57.5 in / 1460 mm</td>
</tr>
</tbody>
</table>

* 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.)

**N.I.**  Must be purchased separately!

**L/R**  Assemble left and right sides the same way.

**N**  Ensure smooth non-binding movement while assembling.

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

**P**  Cut off shaded portion.

**W**  Pierce the shaded portion covering film.

**Exclamation**  Pay close attention here!

**Exclamation**  Warning! Do not overlook this symbol!
Parts List

1. MAIN WING---1 pair
2. WING TUBE Ø16x400mm---1 pc.
3. SCREW PB2x20mm---4 pcs
   PUSHROD Ø1. 8x115mm w/Threads (For Aileron)---2 pcs
   HORN---2 sets
   CLEVIS---2 pcs
   STRAPER (PL412102)---2 pcs
   FUEL TUBE Ø6x5mm---4 pcs
5. STABILIZER & ELEVATOR---1 set
   FUSELAGE---1 pc.
6. VERTICAL FIN & RUDDER---1 set
7. PUSHROD Ø1. 8x720mm w/Threads (For Elevator)---2 pcs
   SCREW PB2x16mm---4 pcs
   HORN---2 sets
   CLEVIS---2 pcs
   FUEL TUBE Ø6x5mm---2 pcs
8. SCREW PM2x20mm---2 pcs
   CLEVIS---2 pcs
   M2 NUT ---2 pcs
   HORN (w/o-Base For Rudder)---2 pcs
   COPPER TUBE d2. 5xD3. 2x8mm (For Rudder)---2 pcs
   WIRE Ø1x760mm---2 pcs
   RIGGING COUPLER Ø1. 8x27mm w/Threads (For Rudder)---2 pcs
   FUEL TUBE Ø6x5mm---2 pcs
9. TAIL LANDING GEAR Ø2. 1mm---1 set
   SCREW PA3x12mm---2 pcs
   COLLAR Ø2. 1mm w/set screw---1 set
   TAIL WHEEL Ø23mm---1 pc.
10. ENGINE MOUNT (PL511050)---1 set
    SOCKET HEAD SCREW M4x25mm---4 pcs
    WASHER d4.5 xD9mm---4 pcs
11. FUEL TANK 320CC---1 set
    BALS 8x8x77mm (For Fixing Fuel Tank)---1 pc.
12. SOCKET HEAD SCREW M3. 5x30mm---4 pcs
    WASHER d3. 5xD8mm---8 pcs
    M3. 5 NUT---8 pcs
    THROTTLE PUSHWIRE Ø1. 2x410mm---1 pc.
    PLASTIC TUBE Ø2xD3x250mm---1 pc.
13. COWLING---1 pc.
    TRANSPARENT DUMMY COWLING---1 pc.
    SCREW PWA2. 6x12mm---4 pcs
    SILICON GROMMET d1. 5xD6. 5mm---4 pcs
    SPINNER Ø52mm---1 set
14. LINKAGE CONNECTOR Ø2. 1mm---3 sets
15. FUEL TUBE Ø8x5mm---1 pc.
    STRAPER---1 pc.
    SPONGE 10x80x200mm---2 pcs
    PUSHROD CONNECTOR 4x8x20mm---1 set
    COPPER TUBE d2. 5xD3. 2x8mm (For Rudder)---2 pcs
    PUSHROD Ø1. 8x100mm (For Elevator)---1 pc.
    RIGGING Z BEND Ø1. 8x27mm (For Rudder)---2 pcs
16. BELLY PAN---1 pc.
    SOCKET HEAD SCREW M4x35mm---2 pcs
    WASHER d4. 2xD14. 5mm---2 pcs
17. CANOPY---1 pc.
    SCREW PWA2. 3x8mm---6 pcs
    SILICON GROMMET d1. 5xD6. 5mm---6 pcs
    PILOT PC001050B---1 set
18. DECALS A197DEC---1 set
19. COVERING:-
   TOUGHLON STL 313 PINK
   TOUGHLON STL 204 CREAM
   TOUGHLON STL 330 ORANGE YELLOW
   TOUGHLON STL 201 BLACK
   TOUGHLON STL 311 CUB YELLOW
   TOUGHLON STL 100 WHITE
1 Main Wing

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

2 Main Wing

- Please apply glue to all surfaces of wing tube.

Wing Tube Ø16X400mm

Aileron Servo Lead

Completed
3 Aileron Servo

PB2 x20mm Screw

- 4

L/R

- TW2 PLASTIC CLEVIS WRENCH

- Bottom View

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

4 Retractable Landing Gear Servo

<table>
<thead>
<tr>
<th>Adjuster</th>
<th>3 x 3mm Set Screw</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linkage Connector</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>M2 Nut</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>2mm Washer</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Wheels down Position

Wheels up position

5 Stabilizer & Elevator

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

*Also refer to step 18 Wing Setting

- Apply instant type CA glue to both sides of each hinge.
6 **Vertical Fin/Rudder**

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

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 **Rudder Pushwire**

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

---

**Vertical Fin/Rudder**

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

**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.

**Rudder Pushwire**

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

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

Apply thread locker to screws.

10 Engine Mount

11 Fuel Tank

Install Balsa 8x8x77mm (For Fuel Tank Position Fixing)

Bottom View
**12 Engine**

- M3.5x30mm Socket Head Screw
  - 4
- d3.5xD8mm Washer
  - 8
- M3.5 Nut
  - 8

Install Engine position

Spinner Ø52mm

Washer d3.5xD8mm

M3.5x30mm

**13 Cowling**

- PWA2.6 x 12 mm Screw
  - 4
- d1.5 x D6.5 mm Silicon Grommet
  - 4

First insert the grommet to the cowling then apply screw.

**N.I. Fuel Filler**

PL8110030

- Spinner Ø52mm
- Silicon Grommet d1.5x6.5mm
- PWA2.6 x 12 mm
**14 Servo Set**

- **LINKAGE CONNECTOR**
  - 3 x 3mm **Set Screw**
  - Linkage Connector
  - M2 **Nut**
  - 2mm **Washer**

Include with the radio set. Please refer to attached sheet for linkage connector installation.

---

**15 Radio Equipment**

Front View

- **Elevator Servo**
- **Throttle Servo**
- **Fuel Tube Ø6x5mm**
- **Charge Recepieties RP0041300**
- **Receiver**
- **Battery**
- **Straper**
- **Sponge 10x80x200mm**
- **Throttle Pushrod**
- **Rudder Servo**
- **Copper Tube**

---

**16 Main Wing**

- **M4 x35mm Socket Head Screw**
- **D4. 2xD14. 5mm Washer**

Inclined view
17 Canopy

PWA2.3 x 8mm Screw

Silicon Grommet d1.5 x D6.5mm

18 Wing Setting

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

A = A’
B = B’
C = C’
### 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.**

**#AeroPet 50** is specially designed to be powered by 4c 0.52–0.70 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.**
After fastening the round nut, make sure that the linkage connector can rotate freely.

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.

Shoulder

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.
Optional Parts

(ACCESSORIES)

180mm Extension

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW0011800</td>
<td>180mm</td>
<td>1 set</td>
</tr>
</tbody>
</table>

180mm Y-Cord

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
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</thead>
<tbody>
<tr>
<td>KW0021800</td>
<td>180mm</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

Fuel Filler

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL8110030</td>
<td>15 x 22 x 49mm</td>
<td>1 x 1 pc</td>
</tr>
</tbody>
</table>

Clevis Wrench

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL8210010</td>
<td>1 set</td>
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</tbody>
</table>

Charge Receptacles

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KP0041300</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Stand

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS9111430</td>
<td>600 x 240 x 310mm</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

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

Standard Servo

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size / Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SV4031</td>
<td>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</td>
</tr>
</tbody>
</table>
Ducted Fan Pattern
Warbirds Funfly
Scale Electric
Sports Glider
Trainer Boat
Accessories
Covering
(Lightex / Toughlon)