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

- Wing Span: 65 in / 1650 mm
- Wing Area: 769 sq in / 49.6 sq dm
- Flying Weight: 8 lb / 3650 g
- Fuselage Length: 57 in / 1450 mm

* 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.
- **CA**: 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.B.**: Ensure smooth non-binding movement while assembling.
- **Cut off shaded portion.**
- **Drill holes with the specified diameter (here: 3mm).**
- **Pay close attention here!**
- **Warning!** Do not overlook this symbol!
## Parts List

1. MAIN WING -- 1 pair
2. SCREW PB2x32mm -- 6 pcs
   FUEL TUBE Ø6x5mm -- 4 pcs
   STRAPPER -- 2 pcs
   CLEVIS -- 2 pcs
   TRI-HORN M3x14mm (L) -- 2 sets
   PUSHROD Ø1.2x125mm w/ Threads (For Aileron) -- 2 pcs.
3. FUSELAGE -- 1 pc.
   CARBON FIBER MAIN LANDING GEAR -- 1 pair
   WHEEL PANTS -- 1 pair
   SOCKET HEAD SCREW M5x43mm -- 2 pcs
   MS NUT -- 2 pcs
   M3 NUT -- 2 pcs
   NYLON BOLT M3x18mm -- 2 pcs
   PLASTIC COLLAR Ø5.1mm -- 2 pcs
   SCREW HM4x16mm -- 4 pcs
   WASHER d4x12mm -- 4 pcs
   WASHER d5x12mm -- 2 pcs
   WHEEL Ø70mm -- 2 pcs
   COLLAR Ø5.1mm w/ set screw -- 2 sets
4. ENGINE MOUNT PL5111080
   SOCKET HEAD SCREW M4x25mm -- 4 pcs
   WASHER d2x12mm -- 4 pcs
   BLIND NUT M4x12mm -- 4 pcs
   WOODEN DOWEL Ø5.1mm (For Firewall) -- 4 pcs
5. FUEL TANK 380cc -- 1 set
   BALSA 10x10x120mm (For Fuel Tank) -- 1 pc.
   PLYWOOD 2x80x112mm (Fuel Tank Holder) -- 1 pc.
   BALSA 4x4x100mm (For Fuel Tank Holder) -- 2 pcs
6. STABILIZER & ELEVATOR -- 1 set
7. SCREW PB2x20mm -- 6 pcs
   TRI-HORN M3x14mm (L) -- 2 sets
   CLEVIS -- 2 pcs
   FUEL TUBE Ø6x5mm -- 2 pcs
   PUSHROD Ø1.2x85mm w/ Threads (For Elevator) -- 2 pcs
8. VERTICAL FIN & RUDDER -- 1 set
9. TAIL LANDING GEAR -- 1 set
   SCREW PA3x12mm -- 2 pcs
   COLLAR Ø2.1mm w/ set screw -- 1 set
   WHEEL Ø30mm -- 1 pc.
10. SCREW PM2x25mm -- 3 pcs
    M2 NUT -- 3 pcs
    CLEVIS -- 2 pcs
    FUEL TUBE Ø6x5mm -- 2 pcs
    TRI-HORN M3x14(L) (w/o Base For Rudder) -- 2 sets
    RIGGING COUPLER Ø1.2x27mm w/ Threads (For Rudder) -- 2 pcs
    COPPER TUBE 0.2x3.2x8mm (For Rudder) -- 2 pcs
    WIRE Ø1x840mm (For Rudder) -- 2 pcs
11. LINKAGE CONNECTOR Ø2.1mm -- 1 set
12. BALSA 6x6x14mm (For Throttle Elevator/Rudder Servo Stand) -- 4 pcs
    PLYWOOD 5x8x155.8mm (For Elevator Servo) -- 1 pc.
    PLYWOOD 5x8x147.3mm (For Rudder Servo) -- 1 pc.

### RIGGING:

- Z BEND Ø1.2x27mm (For Rudder) -- 2 pcs
- COPPER TUBE 0.2x3.2x8mm (For Rudder) -- 2 pcs
- SPONGE 60x70x165mm (For Radio Equipment) -- 1 pc.
- STRAPPER -- 1 pc.
- FUEL TUBE Ø6x5mm -- 1 pc.
- PUSHROD Ø1.2x85mm (For Elevator) -- 1 pc.
- PUSHROD CONNECTOR PL4110010 -- 1 set

### THROTTLE PUSHWIRE:

- 1 pc.
- 2x450mm

### PLASTIC TUBE:

- d2x3x250mm -- 1 pc.
- ALUMINUM PLATE (For Engine Mount) -- 1 pc.
- ANTI-VIBRATION MOUNT PL5111080 -- 1 set

### INCLUDE:

- SOCKET HEAD SCREW M4x35mm -- 4 pcs
- SCREW KM3x30mm -- 8 pcs
- WASHER d4x12mm -- 8 pcs
- M3 NYLON INSERT LOCK NUT -- 8 pcs
- M4 NYLON INSERT LOCK NUT -- 4 pcs

### SCREW:

- HM3x22mm -- 1 pc.
- WASHER d3x7mm -- 2 pcs
- SCREW PA3x22mm -- 1 pc.
- WING TUBE Ø18x83mm -- 1 pc.
- WING LOCK PIN Ø1.2x20mm -- 2 pcs

### COWLING:

- 1 set
- TRANSPARENT 3D TEMPLATE -- 1 pc.
- PLASTIC SPINNER (w/alu. back plate) Ø76mm -- 1 set
- SCREW PWA2.6x12mm -- 4 pcs
- SCREW PWA2.3x8mm -- 4 pcs
- SILICON GROMMET d1.5x6.5mm -- 4 pcs
- DUMMY ENGINE COVER -- 1 pc.

### CANOPY:

- 1 pc.
- SCREW PWA2.3x8mm -- 6 pcs
- SILICON GROMMET d1.5x6.5mm -- 6 pcs
- SCREW HM3x16mm -- 2 pcs
- WASHER d3x7mm -- 2 pcs
- DOUBLE-SIDED TAPE -- 1 pc.
- PILOT PC001102A -- 1 pc.

### DECALS:

- SET A14302DEC -- 1 set

### COVERING:

- TOUGHON STL 100 WHITE
- TOUGHON STL 312 BRIGHT RED
- TOUGHON STL 331 CUB YELLOW
- TOUGHON STL 250 BLUE
1 Main Wing

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

2 Aileron Servos

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

- M6 x 43 mm Socket Head Screw: 2
- M5 Nut: 2
- HM4 x 16 mm Screw: 4
- d4 x D9 mm Washer: 4
- d5 x D12 mm Washer: 2
- 5.1 mm Collar: 2
- M3 x 18 mm NYLON BOLT: 2
- M3 Nut: 2

- Wooden dowel: Ø5.5 x 8 mm
- M3 x 3 mm Set Screw
- 5.1 mm Collar
- D5.1 Plastic Collar

4 Engine Mount

- M4 x 25 mm Socket Head Screw: 4
- M4 x D12 mm Washer: 4
- M4 x D12 mm Blind Nut: 4

- Apply thread locker to screws

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

- Engine Mount PL 5111080
5 Fuel Tank

Install Balsa 10x10x120mm (For Fuel Tank Position Fixing)

Top View
4 x 4 x 60 mm

Balsa
4 x 4 x 60 mm

Plywood
2 x 60 x 112 mm

Fuel Tank

6 Stabilizer&Elevator

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.

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 Vertical Fin / Rudder

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

9 Tail Landing Gear

- PM 2 x 25mm Screw
- M2 Nut x 3

10 Rudder Pullwire

- PM 2 x 25mm Screw
- M2 Nut x 3

- ø1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-hole marks at side of control surfaces.
11 Servo Set

**LINKAGE CONNECTOR**
- 3 x 3mm *Set Screw* 1
- Linkage Connector 1
- M2 *Nut* 1
- 2mm *Washer* 2

*Included with the radio Set.*

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

12 Servos

*Front*

- Charge Receptacles KP0041300
- Plywood 5x60x155.8mm
- Throttle Servo
- Balsa 6x6x41mm
- Wire Ø1 x 840mm
- Copper Tube
- Straper
- Fuel Tube Ø6x5mm
- Plywood 5x60x147.3mm

**Elevator Servo**

**Rudder Servo**

**Throttle Servo**

- **3x3mm Set Screw**
- **2mm Washer**
- **M2 Nut**
- **2mm Washer**
- **C.A.**

---

*Press down the center 1/3 portion*

---

*KM2x8mm*

---

*Elevator Pushrod Ø1.8x85mm*

---

*A143PO22951003 P.7*
13 Engine

**M4x35mm Set Screw**
- 4

**KM3x20mm Washer**
- 8

**M4 Nylon Insert Lock Nut**
- 4

**M3 Nylon Insert Lock Nut**
- 8

**d4xD12mm Washer**
- 8

---

**ANTI-VIBRATION MOUNT INSTALLATION**

Make sure the rounded edges are facing the shock absorbing silicon PAD.

![Diagram](image)

---

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

- Install Engine position

---

**Plastic Tube**
- d2xD3x250mm

**Throttle Pushwire**
- 1.2x450mm

**KM3x20mm**

**Counter Sink**
- 4.1mm

**3.2mm**

**5.1mm**

**1.2mm**

**5.39in**

**137mm**

---

Make sure the rounded edges are facing the shock absorbing silicon PAD.
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 22mm 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 HM3 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 PA3 X 22mm 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 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.
**15 Cowling**

- **PWA2.6 x 12 mm Screw**
  - 4
- **PWA2.3 x 8 mm Screw**
  - 4
- **d1.5 x D6.5 mm Silicon Grommet**
  - 4

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

**16 Canopy**

- **PWA2.3 x 8 mm Screw**
  - 6
  - d1.5 x D6.5 mm Silicon Grommet
  - 6
- **HM3 x 16mm Screw**
  - 2
  - d3 x D7mm Washer
  - 2

**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'

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

Rudder

Ailerons

19 C.G.

The ideal C.G. position is 116mm (4.6in) 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.
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.

# VELOX REV II-60 is specially designed to be powered by 0.60-0.75 2 stroke or 0.70-0.91 4 stroke glow 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.

• Specifications are subject to change without notice.
LINKAGE CONNECTOR
HW7111050 & HW7111060

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.

A143PO22951003
Optional Parts
(ACCESSORIES)

180mm Extension

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
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</thead>
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180mm Y-Cord

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Charge Receptacles

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Field Stand

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<tr>
<td>MS9111430</td>
<td>600 x 240 x 310mm</td>
<td>1 pc</td>
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Fuel Filler

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<tr>
<td>PL8110030</td>
<td>15 x 22 x 49mm</td>
<td>1 x 1 pc</td>
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Clevis Wrench

<table>
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<tbody>
<tr>
<td>PL8210010</td>
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<td>1 set</td>
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</tbody>
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Special tool for clevis installation. Suitable for standard and small (EP) clevis.

Standard Servo

<table>
<thead>
<tr>
<th>Code No</th>
<th>SV4031</th>
</tr>
</thead>
</table>

- 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)