INSTRUCTIONS MANUAL

MINIMOA

Requires: 3-channel radio w/ 2 standard servos and 2 mini servos

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>134.0 in / 3400 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>1175 sq in / 75.5 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>6.5 lbs / 3000 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>54.0 in / 1370 mm</td>
</tr>
</tbody>
</table>

*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 electric 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.
MINIMO A

INDEX

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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.

- **Warning!** Do not overlook this symbol!

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

- **Pay close attention here!**

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

- **Cut off shaded portion.**

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

- **Peel off shaded portion covering film.**
Parts List

1. MAIN WING -- 1 pair

2. PLYWOOD 2x60x64mm (For Aileron Servo) -- 2 pcs
   BALSA 6x18x18mm (For Aileron Servo Stand) -- 4 pcs
   SCREW PWA2x8mm -- 8 pcs

3. SCREW PB2x20mm -- 4 pcs
   HORN -- 2 sets
   PUSHROD Ø1.8x70mm w/ Threads (For Aileron) -- 2 pcs
   STRAPER -- 2 pcs
   CLEVIS -- 2 pcs
   FUEL TUBE Ø6x5mm -- 4 pcs

4. WING TUBE Ø9.6x250mm -- 2 pcs

5. WING JOINER Ø4x132mm -- 2 pcs
   FUSELAGE -- 1 pc.

6. STABILIZER & ELEVATOR -- 1 set
   RUDDER -- 1 pc.
   SOCKET HEAD SCREW HM3x35mm -- 2 pcs
   WASHER d3xD12mm -- 2 pcs

7. LINKAGE CONNECTOR HW7111050 D2.1x5mm -- 2 sets

8. PUSHROD Ø1.8x1010mm w/ Threads (For Elevator) -- 1 pc.
   PUSHROD Ø1.8x1030mm w/ Threads (For Rudder) -- 1 pc.
   SCREW PB2x25mm -- 2 pcs
   ROD D2x45mm -- 2 pcs
   M2 NUT -- 4 pcs
   HORN -- 2 sets
   CLEVIS -- 2 pcs
   FUEL TUBE Ø6x5mm -- 2 pcs

9. SPONGE 10x50x150mm (For Radio Equipment & Battery) -- 2 pcs
   BATTERY TIE 250mm -- 1 pc.
   PLYWOOD 3x80x80mm (For Radio) -- 1 pc.
   COCKPIT -- 1 pc.

10. CANOPY -- 1 pc.
    PILOT (#PC001063A) -- 1 pc.

11. WHEEL Ø70mm -- 1 pc.
    SOCKET HEAD SCREW HM4x50mm -- 1 pc.
    WASHER d4xD9mm -- 2 pcs
    M4 NUT -- 1 pc.
    COLLAR Ø4.1mm w/ Set Screw -- 2 pcs
    COPPER TUBE d4xD5x8mm -- 2 pcs

12. DECALS -- 1 set

The World Models
Manufacturing Co., Ltd.
www.theworldmodels.com
1. **Main Wing**
   - Apply instant type CA glue to both sides of each hinge.

2. **Aileron Servo**
   - Balsa wood 6x18x18mm
   - Plywood 2x60x64mm
   - Plywood off shaded portion covering film

3. **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.

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G106PO23421103
4 Main Wing

Wing Joiner(B) Ø9.8x250mm

Lead to Aileron Servo

L/R

5 Main Wing

Wing Joiner Ø4x132mm

6mm Set Screw 2

8mm Set Screw

6mm Set Screw

6mm Set Screw

6mm Set Screw

6mm Set Screw

6mm Set Screw

Apply thread locker to screws.

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.

6 Stabilizer & Elevator & Rudder

d3xD12mm Washer 2

HMx35mm Socket Head Screw 2

A=A'

C=C'

L/R

P.4
7 Servo Set

**LINKAGE CONNECTOR**
- 3x3mm Set Screw: 2
- Linkage Connector: 2
- M2 Nut: 2
- 2mm Washer: 4

Please refer to the attached sheet for linkage connector installation.

8 Elevator / Rudder Pushrod

- PB2x25mm Screw: 2
- D2x45mm Rod: 4
- M2 Nut: 4

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

9 Servos

- Cockpit

![Diagram of servos showing their placement in the model plane](image-url)
10 Canopy

- PWA2.3x8mm Screw 4
- d1.5xD6.5mm Silicon Grommet 4

L/R

11 Wheel

- HM4x50mm Socket Head Screw 1
- d4xD9mm Washer 2
- M4 Nut 1
- 3x3mm Set Screw 2
- 4.1mm Collar 2
- Copper Tube D4xD5x8mm
- 3x3mm Set Screw
- 4.1mm Collar

Bottom View

12 Wing Setting

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

A=A'
B=B'
C=C'
13 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.

14 C.G.

The ideal C.G. position is 115 mm (4.53 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.

# 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.
**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.

G106PO23421103
Optional Parts

(ACCESSORIES)

180mm Extension

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

Wind sock

<table>
<thead>
<tr>
<th>Code No. AT3001052</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT3001052 D260x900mm</td>
<td>1 pc</td>
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</tbody>
</table>

180mm Y-Cord

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

Clevis Wrench

<table>
<thead>
<tr>
<th>Code No. PL8210010</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Clevis</td>
<td></td>
</tr>
<tr>
<td>Large Clevis</td>
<td></td>
</tr>
</tbody>
</table>

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

Charge Receptacles

| Code No. KP0041300 |

Field Stand

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

Standard Servo

<table>
<thead>
<tr>
<th>Code No. 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)

The World Models
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