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.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>51.0 in / 1300 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>419 sq in / 27.0 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>3.3 lbs / 1500 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>33.0 in / 840 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:

- **Apply epoxy glue.**

- **Apply thread locker**

- **Assemble left and right sides the same way.**

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

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

- **Pay close attention here!**

- **Apply instant glue (C.A.glue, super glue.)**

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

- **Cut off shaded portion.**

- **Must be purchased separately!**

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

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

1. MAIN WING -- 1 pair
2. WING JOINER 6x20x87mm -- 1 pc.
3. FUEL TUBE Ø6x5mm -- 4 pcs
   CLEVIS -- 2 pcs
   STRAPER -- 2 pcs
   RING Ø2.3mm -- 2 pcs
   PUSHROD Ø1.8x100mm w/ Threads (For Aileron) -- 2 pcs
   BALSA 8x8x20mm (For Aileron Servo) -- 2 pcs
4. MAIN WING STRUTS -- 1 pair
   SCREW PA2.6x12mm -- 4 pcs
5. FUSELAGE -- 1 pc.
   VERTICAL FIN & RUDDER -- 1 set
   STABILIZER & ELEVATOR -- 1 set
6. SCREW PA2.6x12mm -- 2 pcs
   TAIL LANDING GEAR -- 1 set
   TAIL WHEEL Ø23mm -- 1 pc.
   COLLAR Ø2.1mm w/ set screw -- 1 set
   SCREW PM2x12mm -- 1 pc.
   M2 NUT -- 1 pc.
   ALUMINUM PLATE 0.5mm -- 1 pc.
7. ENGINE MOUNT PL5111020 -- 1 set
   SOCKET HEAD SCREW M3x20mm -- 4 pcs
   WASHER d3xD7mm -- 4 pcs
8. SOCKET HEAD SCREW M3x25mm -- 4 pcs
   WASHER d3xD7mm -- 8 pcs
   M3 NUT -- 8 pcs
   SPINNER Ø45mm -- 1 pc.
   THROTTLE PUSH WIRE Ø1.2x260mm -- 1 pc.
   PLASTIC TUBE d2xD3x140mm -- 1 pc.
9. FUEL TANK 200cc -- 1 set
   CABLE TIE 1.5x4x400mm -- 1 pc.
   DOUBLE-SIDED TAPE 40x80mm -- 1 pc.
10. SCREW HM3x16mm -- 2 pcs
    WASHER d3xD7mm -- 2 pcs
    M3 NUT -- 2 pcs
    ALUMINUM PLATE 1.5mm -- 2 pcs
11. MAIN LANDING GEAR -- 1 set
    SCREW PA3x10mm -- 8 pcs
    MOUNTING PLATE 12x20mm -- 4 pcs
12. MAIN WHEEL Ø50mm -- 2 sets
    COLLAR Ø3.1mm w/ set screw -- 4 sets
    BALSA 2x8x90mm (Main Landing Gear Cover) -- 1 pair
    PLYWOOD 9x9x12mm -- 4 pcs
13. SIDE WINDOWS -- 1 pair
    WIND SHIELD -- 1 pc.
    SCREW PWA2.3x8mm -- 4 pcs
    WIND SHIELD -- 1 pc.
    SILICON GROMMET d1.5x6.5mm -- 4 pcs
14. COWLING -- 1 pc.
    TRANSPARENT 3D TEMPLATE -- 1 pc.
    SCREW PWA2.6x12mm -- 4 pcs
    SILICON GROMMET d1.5x6.5mm -- 4 pcs
15. LINKAGE CONNECTOR Ø2.1mm -- 1 set
16. PUSHROD Ø1.8x65mm (For Elevator) -- 1 pc.
    PUSHROD CONNECTOR 4x9x20mm -- 1 set
    SPONGE 10x30x200mm -- 2 pcs
    STRAPER -- 2 pcs
    FUEL TUBE Ø6x5mm -- 2 pcs
17. SCREW PB2x10mm -- 6 pcs
    FUEL TUBE Ø6x5mm -- 2 pcs
    CLEVIS -- 2 pcs
    TRI-HORN M3X14mm -- 2 sets
    PUSHROD Ø1.8x418mm w/ Threads (For Elevator) -- 2 pcs
18. SCREW PB2x10mm -- 3 pcs
    FUEL TUBE Ø6x5mm -- 1 pc.
    CLEVIS -- 1 pc.
    TRI-HORN M3x14mm (S) -- 1 set
    PUSHROD Ø1.8x485mm w/ Threads (For Rudder) -- 1 pc.
19. SCREW HM3x30mm -- 2 pcs
    WASHER d3xD12mm -- 2 pcs
    SCREW HM3x10mm -- 2 pcs
    M3 NYLON INSERT LOCK NUT -- 2 pcs
    PLASTIC PLATE 1x24x84mm (Wing Protection) -- 1 pc.
20. DECALS A002SDEC -- 1 set

COVERING:
- LIGHTEX SGX 331 CUB YELLOW
- LIGHTEX SGX 201 BLACK
1 Main Wing

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

2 Main Wing

- Please dry fit wing joiner into left and right wing to make sure they fit with the proper dihedral angle, mark the wing joiner if necessary. Apply epoxy glue to both sides of all surfaces in contact. Use a stick to apply the glue to inner side of wing joiner sleeve, and apply the glue to wing joiner before putting them together. Wing joiner not glued properly will lead to wing failure and plane crash.

3 Aileron Servo

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

- Fuel Tube Ø6x5mm

- Pushrod Ø1.8x100mm

- Balsa 5x8x20mm

- Clevis Ring
4 Wing Struts

PA2.6x12mm Screw

---

5 Vertical Fin / Horizontal Stabilizer

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

---

6 Tail Landing Gear

PA2.6x12mm Screw

3mm Set Screw

2mm Collar

PM2x12mm Screw

M2 Nut

---
7 Engine Mount

- M3x20mm Socket Head Screw (4)
- d3xD7mm Washer (4)

Lead the 1.2mm throttle rod through the plastic tube and attach the throttle rod to the throttle lever on the engine.

8 Engine

- M3x25mm Socket Head Screw (4)
- d3xD7mm Washer (8)
- M3 Nut (8)

9 Fuel Tank

- Cable Tie: 1.5x4x400mm
- Double-sided Tape: 40x80mm

Completed
10 Landing Gear

- HM3x16mm Screw (2)
- d3x7mm Washer (2)
- M3 Nut (2)
- Aluminum Plate 1.5mm
- d3x7mm Washer
- HM3x16mm

11 Landing Gear

- PA3x10mm Screw (8)
- PA3x10mm
- Mounting Plate 12x20mm

12 Landing Gear

- 3mm Set Screw (4)
- 3.1mm Collar (4)
- Plywood 9x9x12mm
- Balsa 2x80x90mm
13 Canopy

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

Please refer to the attached sheet for linkage connector installation.

14 Cowling

PWA2.6x12mm Screw 4
d1.5xD6.5mm Silicon Grommet 4

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

First insert the grommet to the cowling then apply screw.

15 Servo Set

3x3mm Set Screw 1
Linkage Connector 1
M2 Nut 1
2mm Washer 2

Please refer to the attached sheet for linkage connector installation.
16 Radio Equipment

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

17 Elevator Pushrod

- Ø1mm pilot holes for The World Models tri-horn are pre-drilled. Please look for pin-hole marks at the underside of control surfaces.
18 Rudder Pushrod

- PB2x10mm Screw
- ø6x5mm Fuel Tube
- PB2x10mm Clevis
- ø1mm Tri-Horn

- HM3x30mm Screw
- d3xD12mm Washer
- HM3x10mm Screw
- M3 Nylon Insert Lock Nut

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

19 Main Wing/ Wing Struts

- HM3x30mm Screw
- d3xD12mm Washer
- HM3x10mm Screw
- M3 Nylon Insert Lock Nut

- Plastic Plate1x24x84mm

L/R

20 Wing Setting

In order to obtain the wing and fuselage configuration as in the diagrams, insert reinforcement plates between the wing and fuselage if necessary.

- Securely attach the main wing

A = A'
B = B'
C = C'
D = D'
### Important Safety Precautions

1. **First time flyer** should never fly by himself / herself. Assistance from experienced flyer is absolutely necessary.

2. Pre-flight adjustment must be done before flying, it is very dangerous to fly a badly pre-adjusted aircraft.

3. **Piper J - 3 Cub 265** is specially designed to be powered by **2C 0.25 - 0.32** or **4C 0.30** engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause severe damage and injuries.

4. Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller.

5. 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.

6. Check and re-tighten up all factory assembled screws, use thread locker if necessary.

---

### 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.

![Control Throws Diagram]

### C.G.

The ideal C.G. position is **55mm (2.16 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.

If you are converting this model to electric, please move the C.G. forward 10% of current C.G. distance from leading edge to compensate for weight of fuel.

![C.G. Diagram]

---

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.
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>
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</table>

Fuel Filler

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

180mm Y-Cord

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

Clevis Wrench

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

Charge Receptacles

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

Small Clevis

Large Clevis

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

Field Stand

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS9111450</td>
<td>600 x 240 x 350mm</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

Standard Servo

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Speed</th>
<th>Torque</th>
<th>Size</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SV4031</td>
<td>0.17 sec  / 60° @4.8V</td>
<td>3.2kg.cm / 44.8 oz - in @4.8V</td>
<td>40.6 x 20 x 37mm</td>
<td>39.4 g / 1.39 oz</td>
</tr>
<tr>
<td></td>
<td>0.14 sec  / 60° @6.0V</td>
<td>4.1kg.cm / 57.4 oz - in @6.0V</td>
<td>1.60 x 0.79 x 1.46 in</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>