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.

50 - 80 c.c. gasoline engine
Requires: 5-channel radio w/ 8 high torque servos

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>125 in / 3175 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>2009 sq in / 130 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>29.5 lbs / 13400 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>90.5 in / 2300 mm</td>
</tr>
</tbody>
</table>

Warning! This model is not a toy.
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.)
- **NI**: Must be purchased separately!
- **L/R**: Assemble left and right sides the same way.
- **N.I.**: Ensure smooth non-binding movement while assembling.
- **Peel off shaded portion covering film.**
- **Cut off shaded portion.**
- **Drill holes with the specified diameter (here: 3mm).**
- **Pierce the shaded portion covering film.**
- **Pay close attention here!**
- **Warning!** Do not overlook this symbol!
1. DECALS: A334 DEC -- set
   MAIN WING -- 1 pair
   TAIL PIECE -- 1 pc.
   SCREW PA3x20mm -- 5 pcs
   WASHER d3.2x10mm -- 5 pcs
   COVERING 30x600mm -- 2 pcs

2. STABILIZER & ELEVATOR -- 1 set
   SCREW PM3x40mm -- 2 pcs
   WASHER d3.2xD10mm -- 2 pcs
   SOCKET HEAD SCREW M4x55mm -- 2 pcs
   M4 NYLON INSERT LOCK NUT -- 2 pcs
   PUSHROD M3x30mm w/ Threads (For Elevator) -- 2 pcs
   HEAVY DUTY CLEVIS PL4112200 -- 4 sets
   HEAVY DUTY SERVO HORN PL4120300 -- 2 sets
   SWIVEL CLEVIS HORN FAIRING PL4610010 -- 2 sets
   HEAVY DUTY HORN BRACKET PL4112400 -- 4 sets
   SERVO MOUNTING PANEL PL531P011(For Elevator) -- 1 pair
   SCREW PWA2x8mm -- 4 pcs

3. VERTICAL FIN & RUDDER -- 1 set
   SOCKET HEAD SCREW M4x55mm -- 1 pc.
   M4 NYLON INSERT LOCK NUT -- 1 pc.
   SWIVEL CLEVIS HORN FAIRING PL4610010 -- 1 set
   HEAVY DUTY CLEVIS PL4112200 -- 2 sets
   HEAVY DUTY SERVO HORN PL4120300 -- 1 set
   HEAVY DUTY HORN BRACKET PL4112400 -- 1 set
   SERVO MOUNTING PANEL PL531P011(For Rudder) -- 1 pc.
   PUSHROD M3x50mm w/ Threads (For Rudder) -- 1 pc.
   SCREW PWA2x8mm -- 4 pcs

4. STEERING ARM -- w/ set screw -- 1 set
   COLLAR Ø3.1mm w/ Set Screw -- 1 set
   PLYWOOD 3x40x143mm -- 1 pc.
   SCREW PWA2x8mm -- 1 pc.
   TAIL LANDING GEAR PL3410022 -- 1 pc.
   HEAVY DUTY CLEVIS PL4112200 -- 2 sets
   RIGGING COUPLER HW4201324 -- 2 pcs
   COPPER TUBE d2.5xD3.2x8mm -- 2 pcs
   COPPER TUBE d2.5xD3.2x6mm -- 4 pcs
   WIRE Ø1x150mm -- 2 pcs

5. MAIN LANDING GEAR -- 1 set
   COLLAR Ø5.1mm w/ Set Screw -- 4 sets
   COLLAR Ø6.1mm w/ Set Screw -- 4 sets
   WASHER d6x0.15mm -- 4 pcs
   MAIN WHEEL PL3115128 Ø128mm -- 2 pcs
   SCREW PA3x30mm -- 10 pcs
   MOUNTING PLATE PL4114020 -- 2 pcs
   ALUMINUM PLATE 2.5x12x30mm -- 3 pcs
   WHEEL COVER -- 2 pcs
   SCREW PAL1x7mm -- 6 pcs
   ALUMINUM PLATE 3mm -- 2 pcs
   SOCKET HEAD SCREW M5x20mm -- 2 pcs
   SCREW PA3x20mm -- 2 pcs
   WASHER d3.2xD10mm -- 4 pcs

6. SOCKET HEAD SCREW M5x50mm -- 4 pcs
   THROTTLE PUSHROD Ø0.8x700mm -- 1 pc.
   PLASTIC TUBE d2.5xD4x430mm -- 1 pc.
   WASHER d5xD12mm -- 4 pcs
   BLIND NUT M5 -- 4 pcs

7. FUEL TANK 800cc -- 1 set
   CABLE TIE (For Fuel Tank) 1.5x8x500mm -- 1 pc.

8. LINKAGE CONNECTOR Ø2.1mm -- 1 set
   SPONGE 10x80x200mm -- 2 pcs
   PLYWOOD 3x191.4x247.9mm -- 1 pc.

9. SIDE WINDOWS -- 1 set
   WIND SHIELD -- 1 pc.
   PILOT PC001102A -- 2 sets
   PLASTIC PLATE 20mm -- 2 pcs
   ALUMINUM PLATE 2mm -- 1 pc.
   ALUMINUM ROD Ø8x20mm -- 1 pc.
   SCREW PM3x35mm -- 1 pc.
   WASHER d3xD7mm -- 2 pcs
   M3 NYLON INSERT LOCK NUT -- 1 pc.

10. COWLING -- 1 set
    DUMMY ENGINE -- 1 set
    TRANSPARENT 3D TEMPLATE -- 1 pc.
    SCREW PA3x12mm -- 2 pcs
    SILICON GROMMETS PL1285035 Ø2.5xD8.5mm -- 4 pcs
    WASHER d3xD7mm -- 4 pcs
    SPINNER Ø95mm -- 1 set

11. SOCKET HEAD SCREW M4x60mm -- 4 pcs
    M4 NYLON INSERT LOCK NUT -- 4 pcs
    SCREW PWA2x8mm -- 16 pcs
    PUSHROD M3x30mm w/ Threads (For Flap) -- 2 pcs
    PUSHROD M3x30mm w/ Threads (For Aileron) -- 2 pcs
    HEAVY DUTY CLEVIS PL4112200 -- 8 sets
    HEAVY DUTY SERVO HORN PL4120300 -- 4 sets
    HEAVY DUTY HORN BRACKET PL4112400 -- 4 sets
    SERVO MOUNTING PANEL PL531P012(For Flap) -- 2 pcs
    SCREW PWA2x8mm -- 4 pcs
    M3 NYLON INSERT LOCK NUT -- 4 pcs

12. WING TUBE Ø25.4x1110mm -- 1 pc.
    WING TUBE Ø22x1100mm -- 1 pc.
    SELF-TIGHTENING LATCHING PIN PL9120010 -- 2 pcs
    SELF-TIGHTENING LATCHING PIN PL9120020 -- 2 pcs
    WIRE Ø0.8mm -- 2 pairs

13. WING STRUTS -- 1 pair
    SCREW HM4x15mm -- 4 pcs
    WASHER d4.5xD9mm -- 6 pcs
    M4 NYLON INSERT LOCK NUT -- 2 pcs

COVERING:

TOUGHLON STL 311 FERRARI RED
TOUGHLON STL 100 WHITE
LIGHTEX SGX 201 BLACK
1 Decals

- Cut out decal sheet, peel off backing sheet and apply on fuselage and wings.

Main Wings

- Bottom View

Fuselage

- Left View

- Right View

Instrument Panel
Stabilizer & Elevator Pushrod

- M4x55mm Socket Head Screw: 2
- PM3x40mm Screw: 2
- PWA2.3x8mm Screw: 8
- M4 Nylon Insert Lock Nut: 2
- d3.2xD10mm Washer: 2

The hinges are factory glued.

Completed

Bottom View

L/R
The hinges are factory glued.  
Remove coverings for all surfaces in contact before applying A/B epoxy glue.

Ø 1mm pilot holes for World Models horn are pre-drilled. Please look for pin-hole marks at side of control surfaces.
**4 Tail Landing Gear**

- **PWA2x8mm Screw**: 1
- **3.1 mm Collar**: 1

![Bottom View](image)

- **M3x3mm Stee...**
- **M2x8mm Wire...**
- **M3x3mm Set Screw**
- **M2 Nut**
- **Heavy Duty Clevis**
- **Rudder pushwire Ø1x150mm**

![Bottom View](image)

- **PA3.5x16mm**
- **Spring**

![Bottom View](image)

- **Bottom View**

---

A334PO31661701 P.6
## Main Landing Gear

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3х20mm Socket Head Screw</td>
<td>2</td>
</tr>
<tr>
<td>PA3х30mm Screw</td>
<td>10</td>
</tr>
<tr>
<td>PA3х20mm Screw</td>
<td>2</td>
</tr>
<tr>
<td>PA1.7х8mm Screw</td>
<td>6</td>
</tr>
<tr>
<td>d6хD15mm Washer</td>
<td>4</td>
</tr>
<tr>
<td>d3.2хD10mm Washer</td>
<td>4</td>
</tr>
<tr>
<td>5.1 mm Collar</td>
<td>4</td>
</tr>
<tr>
<td>6.1 mm Collar</td>
<td>4</td>
</tr>
<tr>
<td>Plastic Tube d2.5хD4х430mm</td>
<td>2</td>
</tr>
<tr>
<td>Plywood 3х118.2х144mm</td>
<td>2</td>
</tr>
</tbody>
</table>

**Please refer to your engine instruction manual for the installation of engine ignition unit and battery, some engine manufacturer may prefer installing them inside the fuselage to avoid heat from the engine.**

## Engine

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5х50mm Socket Head Screw</td>
<td>4</td>
</tr>
<tr>
<td>d5хD12mm Washer</td>
<td>4</td>
</tr>
<tr>
<td>M5 Blind Nut</td>
<td>4</td>
</tr>
<tr>
<td>M5 Blind Nut</td>
<td>4</td>
</tr>
<tr>
<td>M5 Fire Wall</td>
<td>2</td>
</tr>
<tr>
<td>M5 Blind Nut</td>
<td>2</td>
</tr>
<tr>
<td>Throttle Pushrod</td>
<td>2</td>
</tr>
<tr>
<td>Plywood 3х118.2х144mm</td>
<td>2</td>
</tr>
<tr>
<td>Plastic Tube d2.5хD4х430mm</td>
<td>2</td>
</tr>
</tbody>
</table>
**7 Fuel Tank**

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

- Cable Tie 1.5x8x500mm

2.

3.

**8 Radio Equipment**

Front

- Plywood 3x191.4x247.9mm

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linkage Connector</td>
<td>1</td>
</tr>
<tr>
<td>M2 Nut</td>
<td>1</td>
</tr>
<tr>
<td>Washer 2mm</td>
<td>2</td>
</tr>
<tr>
<td>3x3mm Set Screw</td>
<td>1</td>
</tr>
</tbody>
</table>

- Please refer to the attached sheet for linkage connector installation.

- Install and arrange the servo as shown in the diagram.
Windows & Pilot

- Securely glue the windows to the fuselage.

Cowling

- Please refer to the attached sheet for usage of the transparent 3D template.
- First insert the grommet to the cowling then apply screw.
11 Aileron Servo & Pushrod

- **M4x60mm Socket Head Screw**: 4
- **PWA2.3x8mm Screw**: 16
- **M4 Nylon Insert Lock Nut**: 4

---

- **Bottom View**

- **M2x8mm Socket Head Screw**: PL410300
- **M2 Nut**:

---

- **Bottom View**

- **PWA2.3x8mm**

---

- **Bottom View**

- **M2 Nylon Insert Lock Nut**

---

- **Bottom View**

- **Heavy Duty Clevis**

---

- **Bottom View**

- **Heavy Duty Horn Bracket**

---

- **Bottom View**

- **Pushrod w/ Threads (For Aileron)**
  - **M3x116mm**
- **Pushrod w/ Threads (For Flap)**
  - **M3x96mm**

---

- **Bottom View**

- **Left Wing**

---

- **Bottom View**

- **Pushrod w/ Threads (For Aileron)**
  - **M3x116mm**
- **Pushrod w/ Threads (For Flap)**
  - **M3x96mm**

---

- **Right Wing**

---

- **Bottom View**

- **Pushrod w/ Threads (For Aileron)**
  - **M3x116mm**
- **Pushrod w/ Threads (For Flap)**
  - **M3x96mm**

---
12 Main Wing

Wire Ø0.8mm
Set Screw 3mm
Completed

Wing Tube Ø25.4x1110mm
Wing Tube Ø22x1100mm
Lead to Aileron Servo

Wing Tube
Wing Latch
Set Screw M3x8mm
Self Tightening Wing Latch

13 Wing Struts

<table>
<thead>
<tr>
<th>Screws</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM4x15mm</td>
<td>4</td>
</tr>
<tr>
<td>M4 Nylon Insert Lock Nut</td>
<td>2</td>
</tr>
<tr>
<td>d4.5x9mm Washer</td>
<td>6</td>
</tr>
</tbody>
</table>

Wing Tube
HM4x15mm
Wing
M4 Nylon Insert Lock Nut

Please refer to the diagram for a visual representation of the parts and their assembly.

A334PO31661701 P.11
15 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.

16 C.G.

The ideal C.G. position is 104mm (4.1in.) 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.

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.

# **Pilatus PC-6 Porter** is specially designed to be powered by 50c.c. gasoline engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause structural 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.

1

2

3

4

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>
</tr>
</tbody>
</table>

**Clevis Wrench**

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

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

### 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>
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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>
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</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>

**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>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>SV4031</td>
<td>40.6 x 20 x 37mm</td>
<td>1 set</td>
</tr>
</tbody>
</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

Warbirds

Pattern

Funfly

Scale

Electric

Sports

Glider

Trainer

Boat

Accessories

Covering

Lightex / Toughlon

The World Models Manufacturing Co., Ltd.

www.theworldmodels.com