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.

Requires: "Glow Power" requires 4-channel radio w/5 standard servos, 2-stroke 0.40-0.46 engine, or "Electric Power" requires 4-channel radio w/ 4 standard servos, Outrunner Motor KM37490750 w/Radial Mount Adaptor HW2340300, 40A Brushless ESC, 4 cells 14.8V 3200mAh Lipo battery and charger

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>64 in / 1625 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>592 sq in / 38.2 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>5.5 lb / 2500 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>45.5 in / 1155 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.
- **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.
- **3mm**: Drill holes with the specified diameter (here: 3mm).
- **!**: Pay close attention here!
- **! Warning!**: Do not overlook this symbol!

---

Ensure smooth non-binding movement while assembling.

Cut off shaded portion.

Pierce the shaded portion covering film.
## Parts List

1. **DECALS:** A340 DEC -- set  
   MAIN WING -- 1 pair  
   FUSELAGE -- 1 pc.

2. **STABILIZER & ELEVATOR** -- 1 set  
   SCREW PM3x20mm -- 2 pcs  
   WASHER d3.2xD7mm -- 1 pc.

3. **VERTICAL FIN & RUDDER** -- 1 set  
   PUSHROD Ø1.8x590mm w/ Threads (For Elevator) -- 2 pcs  
   SCREW PB2x14mm -- 6 pcs  
   TRI-HORN PL4112103 -- 2 pcs  
   FUEL TUBE D6x5mm -- 2 pcs.

4. **TAIL LANDING GEAR** -- 1 pc.  
   TAIL WHEEL Ø23mm -- 1 pc.  
   COLLAR Ø2.1mm w/ Set Screw -- 2 sets  
   SCREW PA3x12mm -- 2 pcs  
   SCREW PM2x12mm -- 1 pc.  
   PLATE 0.3mm -- 1 pc.  
   M2 NUT -- 1 pc.

5. **MAIN LANDING GEAR** -- 1 pc.  
   COLLAR Ø4.1mm w/ Set Screw -- 4 sets  
   MAIN WHEEL Ø58mm -- 2 pcs  
   SCREW PA3x12mm -- 12 pcs  
   MOUNTING PLATE PL4114020 -- 6 pcs.

6. **COWLING** -- 1 pc.  
   DUMMY ENGINE -- 1 set  
   TRANSPARENT 3D TEMPLATE -- 1 pc.  
   SCREW PWA2.6x12mm -- 4 pcs  
   SILICON GROMMETS PL1265035 d1.5xD6.5mm -- 4 pcs  
   SPINNER Ø57mm PL2111057N -- 1 set  
   SCREW PA3x10mm -- 2 pcs  
   PLYWOOD 5x50x72.5mm -- 1 pc.

7. **SIDE WINDOWS** -- 1 set  
   WIND SHIELD -- 1 pc.  
   SCREW PWA2.3x8mm -- 4 pcs  
   SILICON GROMMETS PL1265035 d1.5xD6.5mm -- 4 pcs

8. **PILOT PC001050A** -- 1 pair  
   PLYWOOD 4x97.5x125mm -- 1 pc.  
   PLYWOOD 4x93x125mm -- 1 pc.  
   MOUNTING PLATE PL4114015 -- 1 pc.  
   SCREW PM2x12mm -- 1 pc.  
   WASHER d2xD5mm -- 1 pc.  
   M2 NYLON INSERT LOCK NUT -- 1 pc.

9. **PLYWOOD 4x97.5x125mm -- 1 pc.**  
   PUSHROD Ø1.8x85mm -- 2 pcs  
   FUEL TUBE D6x5mm -- 2 pcs  
   PUSHER CONNECTOR PL4410010 -- 1 set  
   PUSHER Ø1.8x85mm (For Elevator) -- 1 pc.

10. **STRAFTER PL4112102** -- 2 pcs  
    FUEL TUBE D6x5mm -- 2 pcs  
    PUSHROD Ø1.8x613mm w/ Threads (For Rudder) -- 1 pc.  
    SCREW PB2x14mm -- 3 pcs  
    TRI-HORN PL4112103 -- 1 pc.

11. **VERTICAL FIN & RUDDER** -- 1 set  
    PUSHROD Ø1.8x613mm w/ Threads (For Rudder) -- 2 pcs  
    SCREW PB2x14mm -- 6 pcs  
    CLEVIS PL4112103 -- 2 pcs  
    TRI-HORN PL4111221 -- 2 sets  
    FUEL TUBE D6x5mm -- 2 pcs.

12. **WING TUBE Ø10x663mm -- 2 pcs**  
    SCREW PA3x20mm -- 4 pcs  
    WASHER d3.2xD12mm -- 4 pcs  
    M3 NYLON INSERT LOCK NUT -- 2 pcs  
    PLATE 2mm -- 2 pcs.

13. **WING STRUTS** -- 2 pcs  
    SOCKET HEAD SCREW M3x12mm -- 6 pcs  
    SCREW PA3x12mm -- 2 pcs  
    WASHER s3.2xD12mm -- 6 pcs  
    WASHER d3.2xD12mm -- 4 pcs  
    M3 NYLON INSERT LOCK NUT -- 2 pcs  
    PLATE 2mm -- 2 pcs.

14. **SPONGE** -- 60x70x122mm -- 1 pc.

15. **BATTERY COVER** -- 1 pc.

**COVERING:**  
TOUGHON STL 311 FERRARI RED  
TOUGHON 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

Fuselage

Instrument Panel

- Bottom View
- Left View
- Right View
- Top View
2 Stabilizer & Elevator

- PM3x20mm Screw 1
- d3.2xD7mm Washer 1

The hinges are factory glued.

3 Vertical Fin & Rudder

- Pre-glued

The hinges are factory glued.

- Remove coverings for all surfaces in contact before applying A/B epoxy glue.

4 Rudder Pushrod

- PB2x14mm Screw 3

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

PB2x14mm Screw 6

6 Tail Landing Gear

PA3x12mm Screw 2
PM2x12mm Screw 1
M2 Nut 1

7 Main Landing Gear

PA3x12mm Screw 12
### Optional Electric Power Package

- **Cowling**
  - d1.5xD6.5mm Grommet
  - PWA2.6x12mm

- **Battery**
  - Battery Tie

- **Fuselage**
  - PWA2.6x12mm

---

First insert the grommet to the cowling then apply screw.

- **This step is for electric powered. Please follow step 8B if your model is engine powered.**

<table>
<thead>
<tr>
<th>Part</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWA2.6x12mm</td>
<td>Screw</td>
<td>4</td>
</tr>
<tr>
<td>PA3x10mm</td>
<td>Screw</td>
<td>2</td>
</tr>
<tr>
<td>d1.5xD6.5mm</td>
<td>Silicon Grommet Screw</td>
<td>4</td>
</tr>
<tr>
<td>M3 x12mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M3 x8mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M2.5 x11mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PWA2.6x12mm</td>
<td>Screw</td>
<td>2</td>
</tr>
<tr>
<td>PA3x10mm</td>
<td>Screw</td>
<td>4</td>
</tr>
<tr>
<td>Ø57 mm</td>
<td>Spinner</td>
<td>1</td>
</tr>
</tbody>
</table>

**Battery**
- **Battery Tie**

**Double-sided Tape**
- **PA3x10mm Screw**

**11x8E Propeller**
- **PL6211108**

**TWM HW3112400**
- **PROPELLER ADAPTOR WRENCH**

---

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

**This step is for electric powered. Please follow step 8B if your model is engine powered.**
If Pilatus PC-6 Porter 40 is engine powered. Please follow this step.

1. Engine Mount PL5111030

2. Engine

3. Throttle Pushrod

4. 11x6 Propeller PL62231106

5. Double-sided Tape 40x100mm

**Optional Glow Engine Power Package**

- PWA2.6x12mm Screw
- PA3x10mm Screw
- d1.5xD6.5mm Silicon Grommet Screw

First insert the grommet to the cowling then apply screw.
9 Servos Setting

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

10 Windows

- Securely glue the windows to the fuselage.

11 Pilot

- Mounting Plate
- Washer
d2xD5mm
- PM2x12mm
- Nylon Insert Lock Nut

Securely glue the windows to the fuselage.
12 Aileron Servo

<table>
<thead>
<tr>
<th>Component</th>
<th>Screw</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWA2x8mm</td>
<td>n</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- The hinges are factory glued.

13 Aileron Pushrod

<table>
<thead>
<tr>
<th>Component</th>
<th>Screw</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB2x20mm</td>
<td></td>
</tr>
<tr>
<td>PB2x18mm</td>
<td></td>
</tr>
</tbody>
</table>

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

- **PA3x20mm** Screw: 4
- **d3.2xD12mm** Washer: 4

Insert carbon wing tubes into right wing, apply the PA Screws.

Insert the right wing tubes through the Fuselage, and then install the left wing. Press the wings against the fuselage then apply PA screws to the left wing.

15 Wing Struts

- **M3x12mm** Socket Head Screw: 6
- **PA3x12mm** Screw: 2
- **M3** Nylon Insert Lock Nut: 2
- **d3xD7mm** Washer: 6
- **d3.2xD12mm** Washer: 4

Bottom View
16A Radio

- This step is for electric powered. Please follow step 16B if your model is engine powered.

- Plug in the Aileron Servos wire to channel 1
- Plug in the Elevator Servo wire to channel 2
- Plug in the ESC Throttle wire to channel 3
- Plug in the Rudder Servo wire to channel 4

16B Radio

- If Pilatus PC-6 Porter 40 is engine powered. Please follow this step.

- Plug in the Aileron Servos wire to channel 1
- Plug in the Elevator Servo wire to channel 2
- Plug in the Throttle Servo wire to channel 3
- Plug in the Rudder Servo wire to channel 4
**19 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**: 25mm
- **Rudder**: 40mm
- **Ailerons**: 30mm

---

**20 C.G.**

- The ideal C.G. for electric powered model is 63mm (2.5 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.

For glow engine powered model, set C.G. at 67mm (2.6 in.) 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 40 is specially designed to be powered by KM37490750 Outrunner Motor or 2-stroke 0.40-0.46 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. Extreme caution should be exercised when working with electric powered models. Make sure the propeller is cleared of all objects, especially your hands before connecting the battery to the model. Make sure you understand the operation of the ESC (Electronic Speed Control) by studying the ESC manual. Once you plug in the battery for electric powered model, always treat the propeller as a rotating one, as accidental movement of the throttle stick will spin the propeller and could cause injuries.

# 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. Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling.
2. Use as template to mark the openings required for final cutting.

3. Slide the template onto the cowling.
4. Mark the openings with a marker or another tool.
### Optional Parts

( **ACCESSORIES** )

<table>
<thead>
<tr>
<th>3 - Pin EZ Connector</th>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KP0011310</td>
<td></td>
<td>40A Max. Current</td>
<td>1 set</td>
</tr>
</tbody>
</table>

-ideal for electric models

<table>
<thead>
<tr>
<th>2 - Pin EZ Connector</th>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KP0011210</td>
<td></td>
<td>40A Max. Current</td>
<td>1 set</td>
</tr>
</tbody>
</table>

-ideal for electric models

<table>
<thead>
<tr>
<th>Electronic Speed Control 15A</th>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KC2015A01</td>
<td></td>
<td>37 x 19 x 7mm</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

-Current: 15A continuous
-Weight: 22g (with wires)
-BEC output: Switch 5V / 1.5A
-Input:
BEC function for 7 - 8 cells;
(Nimh / Nicd) operation

<table>
<thead>
<tr>
<th>Propeller Adaptor Wrench</th>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW3112400</td>
<td></td>
<td></td>
<td>1 pc</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Clevis Wrench</th>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>PI8210010</td>
<td></td>
<td></td>
<td>1 set</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Radial Mount Adaptor Set</th>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW2340300</td>
<td></td>
<td></td>
<td>1 set</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outrunner Motor 37 / 49 -750kv</th>
<th>Code No.</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM37490750</td>
<td></td>
<td>1 pc</td>
</tr>
</tbody>
</table>

-Kv (rpm / V): 750
-Operating Power: 590 W
-Operating Voltage: 8.5 - 18V
-Operating Current: 40A
-Peak Current: 65A (max.15 sec.)
-Internal Resistance: 34 m ohms
-Diameter: 37.2 mm
-Length: 49.4 mm
-Weight: 183 g
- Shaft Diameter: 5 mm
- Shaft Length: 20.6 mm
-Mounting Screw:
-M3 (Front) and M2.5 (Back)
-Distance of Mounting Holes:
25mm (Front) and 15.5mm (Back)
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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</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>
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</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.

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>

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>

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>

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

Pattern

Warbirds

Funfly

Scale

Electric

Sports

Glider

Trainer

Boat

Accessories

Covering
(Lightex / Toughlon)

The World Models Manufacturing Co., Ltd.
www.theworldmodels.com