It is designed for maximum performance. Please seek advice if one is not familiar with this kind of engine(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.

Warning! This model is not a toy.

Wing Span: 86 in / 2185 mm
Wing Area: 1408 sq in / 91 sq dm
Flying Weight: 18 lb / 8.2 kg
Fuselage Length: 82 in / 2085 mm
Requires: 50 c.c. gas engine, 4-channel radio w/ 6-7 high torque servos

* 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 instant glue** (C.A.glue, super glue.)
- **Apply thread locker**
- **Must be purchased separately!**
- **Assemble left and right sides the same way.**
- **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!

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.
## Parts List

1. **MAIN WING** -- 1 pair

2. **SOCKET HEAD SCREW M4×65mm** -- 2 pcs
   - **M4 NYLON INSERT LOCK NUT** -- 2 pcs
   - **SWIVEL CLEVIS HORN FAIRING PL4610010** -- 2 sets
   - **PUSHROD M3x78mm w/ Threads (For Aileron Servo)** -- 2 pcs
   - **HEAVY DUTY HORN BRACKET PL4112400** -- 2 pcs
   - **HEAVY DUTY CLEVIS PL4112200** -- 4 sets
   - **HEAVY DUTY HORN PL4120300** -- 2 sets
   - **SERVO MOUNTING PANEL PL5310010 (For Aileron)** -- 1 pair
   - **SCREW PWA2x8mm** -- 8 pcs

3. **STABILIZER & ELEVATOR** -- 1 set
   - **SOCKET HEAD SCREW M4×60mm** -- 2 pcs
   - **M4 NYLON INSERT LOCK NUT** -- 2 pcs
   - **SWIVEL CLEVIS HORN FAIRING PL4610010** -- 2 sets
   - **PUSHROD M3x72mm w/ Threads (For Elevator Servo)** -- 2 pcs
   - **HEAVY DUTY CLEVIS PL4112200** -- 4 sets
   - **HEAVY DUTY HORN PL4120300** -- 2 sets
   - **HEAVY DUTY HORN BRACKET PL4112400** -- 2 pcs

4. **FUSELAGE** -- 1 pc.
   - **STABILIZER TUBE Ø16X390mm** -- 1 pc.
   - **SCREW PA3x16mm** -- 2 pcs
   - **WASHER d3×D7mm** -- 2 pcs

5. **VERTICAL FIN & RUDDER** -- 1 set
   - **SCREW PA3X18mm** -- 3 pcs
   - **SCREW PWA2.5X12mm** -- 2 pcs
   - **SPRING Ø1x1050mm** -- 2 pcs
   - **WIRE Ø1×1050mm** -- 2 pcs
   - **COPPER TUBE d2.5×D3.2×8mm** -- 4 pcs
   - **HEAVY DUTY CLEVIS PL4112200** -- 4 sets
   - **HEAVY DUTY HORN PL4120800** -- 1 set
   - **HEAVY DUTY HORN BRACKET PL4112400** -- 2 pcs

7. **THREADED ROD M4×100mm** -- 1 pc.
   - **WIRE Ø1×1050mm** -- 2 pcs

8. **MAIN LANDING GEAR** -- 1 pc.
   - **SCREW HM4×16mm** -- 4 pcs
   - **WASHER d4×D9mm** -- 4 pcs
   - **MAIN LANDING GEAR FAIRING** -- 1 pair
   - **SCREW HM3×16mm** -- 4 pcs
   - **M3 NUT** -- 4 pcs
   - **WASHER d3×D7mm** -- 12 pcs
   - **WHEEL PANTS** -- 1 pair
   - **SCREW HM3×10mm** -- 4 pcs
   - **WHEEL Ø90mm** -- 2 pcs
   - **WHEEL COLLAR Ø1.1mm w/ set screw** -- 4 sets
   - **AXLE SHAFT Ø5xM8x68mm** -- 2 pcs

9. **ENGINE BOX**
   - **317×140×115mm** -- 1 set
   - **PLYWOOD (F54) 223×10×10mm** -- 1 pc.
   - **PLYWOOD (F54A) 230×10×10mm** -- 1 pc.
   - **PLYWOOD (F54B) 100×10×10mm** -- 2 pcs
   - **PLYWOOD (F54C) 140×10×10mm** -- 2 pcs
   - **PLYWOOD (F56) 95×10×10mm** -- 6 pcs

10. **FUEL TANK 800CC**
    - **PL112800G** -- 1 set
    - **CABLE TIE (For Fuel Tank) 1.5×8×500mm** -- 2 pcs

11. **BLIND NUT M6** -- 4 pcs
    - **SOCKET HEAD SCREW M6×50mm** -- 4 pcs
    - **WASHER d6×D15mm** -- 4 pcs
    - **FIREWALL DRILLING TEMPLATE 3×112×110mm** -- 1 pc.
    - **PUSHROD Ø1.8470mm (For Throttle)** -- 1 pc.
    - **PLASTIC TUBE d2.5×D4×350mm (For Throttle)** -- 1 pc.
    - **PLYWOOD (F13) 142×142×3mm** -- 1 pc.

12. **LINKAGE CONNECTOR Ø2.1mm**
    - **HW7111060** -- 1 set

13. **SPONGE**
    - **10×80×200mm** -- 2 pcs

14. **TOP COWLING** -- 1 pc.
    - **UNDER COWLING** -- 1 pc.
    - **TRANSPARENT 3D TEMPLATE** -- 1 pc.
    - **SPINNER Ø102mm SP91102010** -- 1 set
    - **SCREW HM3x20mm** -- 4 pcs
    - **WASHER d3xD7mm** -- 4 pcs
    - **QUICK RELEASE NYLON RIVET PL1208042** -- 12 pcs
    - **SCREW KA2.3x8mm** -- 12 pcs

15. **WING TUBE Ø25×890mm** -- 1 pc.
    - **SELF TIGHTENING WING LATCH** 6 mm w/ set screw -- 2 sets
    - **WIRE ø0.8mm** -- 2 pcs

16. **COCKPIT** -- 1 set
    - **CANOPY** -- 1 pc.
    - **SCREW HM3x20mm** -- 2 pcs
    - **WASHER d3xD7mm** -- 2 pcs
    - **PILOT PC101110F** -- 1 set

17. **PLYWOOD 110x100x3mm** -- 1 pc.
    - **SCREW PWA2.6x12mm** -- 4 pcs

18. **DECALS: GA047DEC** -- 1 set

**COVERING:**
- **TOUGHLON STLGA047WIG**
- **LIGHTEX SGX047GRN**
- **LIGHTEX SGX047RED**
1 Main Wing

Aileron Servo Lead

Bottom View

2 Aileron Servos

M4x65mm Socket Head Screw 2
PWA2x8mm Screw 8
M4 Nylon Insert Lock Nut 2

Heavy Duty Horn Bracket
M2 Nylon Insert Lock Nut
Heavy Duty Clevis
Pushrod M3x38mm
M4 x 65mm

M2 Nylon Insert Lock Nut

Completed

Bottom View

L/R
3 Elevator Servos

- M4x60mm Socket Head Screw x 2
- M4 Nylon Insert Lock Nut x 2

4 Stabilizer & Elevator

- PA3x16mm Screw x 2
- d3xD7mm Washer x 2

Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.
5 Vertical Fin & Rudder

B = B'

L/R

B B'

Completed

6 Tail Landing Gear

PA3 x 18mm Screw 3
PWA2.5 x 12mm Screw 2

Completed

PA3 x 18mm
PWA2.5 x 12mm
Spring Ø5x40mm

Bottom View

1.5mm
7 Rudder

- M4x100mm Threaded Rod
- M4 Nylon Insert Lock Nut
- Press down the center 1/3 portion

---

8 Main Landing Gear

- Ø5xM8x88mm Axle Shaft
- M4x18mm Screw
- HM3x16mm Screw
- HM3x10mm Screw
- M8 Nut
- M3 Nut
- d4x09mm Washer
- d3x07mm Washer
- Wheel Collar 5.1mm

---
9 Engine Box

- Use epoxy to glue all parts together.

Please note right & down thrust angle of firewall.

10 Fuel Tank

CABLE TIE (For Fuel Tank) 1.5x8x500mm

Fuel Tank 800cc
### 11 Engine

- **M6x50mm Socket Head Screw**: 4
- **d6x15mm Washer**: 4
- **M6 Blind Nut**: 4

**Engine Thrust Line**: 160mm (~6.27 in.)

**Center line of firewall**: 8.4mm

**Firewall Drilling Template**: 3x112x110mm (For DA 50 Engine)

- **Top View**
  - Throttle Servo
  - 3x142x142mm F54C

- **Side View**
  - Throttle Pushrod Ø1.8x470mm
  - Plastic Tube d2.5xD4x350mm

- **Bottom View**
  - M6 Blind Nut
  - M6x50mm Socket Head Screw
  - d6x15mm Washer

### 12 Servo Set

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

**3x3mm Throttle Pushwire**:

- **Washer**: 2mm
- **1.5mm Washer**: 2mm
- **M2 Nut**: 2mm

**Throttle Servo**

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

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

14 Cowling & Spinner

- Temporarily mount cowl to fuselage using the HM3x20mm bolts with d3xD7mm flat washers. Two of the bolts install from the rear of F-1 and two of the bolts install from the front of the cowl at the bottom of F-1.

**Bottom View**

- Under Cowling

- Top Cowling

- Completed
15 Main Wing

- **PWA2 x 12mm Screw**: 4
- **Wing Tube Ø25.4 x 890 mm**
- **Lead to Aileron Servo**
- **Wire Ø0.8mm**
- **Set Screw M3X6mm**
- **Self Tightening Wing Latch**

(L/R)

- **Completed**
Cockpit & Pilot

M3x20 mm Socket Head Screw 2

d3xD7 mm Washer 2

Apply thick CA or Canopy glue.

Completed
17 Pipes Cover

PWA2.6x12 mm

Bottom View

18 Decals
Control Throws

- Rudder: 60 mm, 60 mm
- Elevator: 30 mm, 30 mm
- Aileron: 25 mm, 25 mm

Adjust the control throws as shown in the diagram. These throws are good for general flying. You can adjust according to your personal preference.

C.G.

The ideal C.G. position is 153mm (6 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.
- 50CC Slick is specially designed to be powered by 50 c.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.
After fastening the round nut, make sure that the linkage connector can rotate freely.

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.
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>
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</thead>
<tbody>
<tr>
<td>KW0011800</td>
<td>180mm</td>
<td>1 set</td>
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180mm Y-Cord

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<tbody>
<tr>
<td>KW0021800</td>
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Clevis Wrench

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<tr>
<td>PL8210010</td>
<td></td>
<td>1 set</td>
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</table>

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

Field Stand

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<th>Size</th>
<th>Package</th>
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<tbody>
<tr>
<td>MS9111450</td>
<td>600 x 240 x 350mm</td>
<td>1 pc</td>
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</table>

Charge Receptacles

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<th>Size</th>
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</thead>
<tbody>
<tr>
<td>KP0041300</td>
<td></td>
</tr>
</tbody>
</table>

180mm Y-Cord