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.

SkyLink 40

0.40-0.55 cu. in. displacement 2-stroke
Requires: 5-channel radio w/ 7 standard servos

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>66 in / 1680 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>590 sq in / 38.1 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>6.6 lbs / 3000 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>51 in / 1300 mm</td>
</tr>
</tbody>
</table>

*Specifications are subject to change without notice.*
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.

Symbols used throughout this instruction manual comprise of the following:-

- **AB** Apply epoxy glue.
- **C.A.** Apply instant glue (C.A.glue, super glue.)
- **N.I.** Must be purchased separately!
- **L/R** Assemble left and right sides the same way.
- **N.L.** 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!
Parts List

1. MAIN WING -- 1 pair

2. SCREW P8x20mm -- 4 pcs
   SCREW P8x16mm -- 2 pcs
   SCREW P8x22mm -- 4 pcs
   SCREW P8x18mm -- 2 pcs
   SCREW PW2x8mm -- 16 pcs
   FUEL TUBE Ø6x5mm -- 8 pcs
   CLEVIS -- 4 pcs
   STRAPER -- 4 pcs
   TRI-HORN M3x14mm (S) (For Aileron & Flap) -- 4 sets
   SERVO MOUNTING PANEL 22x68x78mm (For Aileron) -- 4 pcs
   PUSHROD Ø1.8x95mm w/ Threads (For Aileron) -- 2 pcs
   PUSHROD Ø1.8x110mm w/ Threads (For Flap) -- 2 pcs

3. WING JOINER 6x20x299.4mm -- 1 pc.

4. STABILIZER & ELEVATOR -- 1 set
   FUSELAGE -- 1 pc.

5. VERTICAL FIN & RUDDER -- 1 set
   VERTICAL WING’S FIN 3x40x50mm -- 1 pc.

6. SCREW P8x16mm -- 6 pcs
   CLEVIS -- 2 pcs
   FUEL TUBE Ø6x5mm -- 2 pcs
   TRI-HORN M3x14mm (S) (For Elevator) -- 2 sets
   PUSHROD Ø1.8x635mm w/ Threads (For Elevator) -- 2 pcs

7. SCREW P8x12mm -- 3 pcs
   CLEVIS -- 1 pc.
   FUEL TUBE Ø6x5mm -- 1 pc.
   TRI-HORN M3x14mm (S) (For Rudder) -- 1 set
   PUSHROD Ø1.8x760mm w/ Threads (For Rudder) -- 1 pc.

8. ENGINE MOUNT PL5111050 -- 1 set
   SOCKET HEAD SCREW M4x25mm -- 4 pcs
   WASHER d4xD8mm -- 4 pcs
   SPONGE 60x70x122mm (For Radio Equipment) -- 1 pc.
   PUSHROD Ø1.8x100mm (For Elevator) -- 1 pc.
   PUSHROD CONNECTOR (For Elevator) -- 1 set

9. FRONT LANDING GEAR -- 1 set
   COLLAR Ø4.1mm w/ set screw -- 1 set
   WHEEL Ø62mm -- 2 pcs
   PLATE 1mm -- 2 pcs

10. FUEL TANK 380cc -- 1 set
    CABLE TIE (For Fuel Tank) 1.5x5x400 -- 1 pc.
    DOUBLE - SIDED TAPE 40x100mm -- 1 pc.

11. SOCKET HEAD SCREW M3x25mm -- 4 pcs
    WASHER d3xD7mm -- 8 pcs
    M3 NUT -- 8 pcs
    THROTTLE PUSHWIRE Ø1.2x370mm -- 1 pc.

12. MAIN LANDING GEAR -- 1 pair
    MAIN LANDING GEAR COVER -- 1 pair
    SCREW HM4x45mm -- 2 pcs
    SCREW KA2.3x8mm -- 4 pcs
    QUICK RELEASE NYLON RIVET PL1208042 d2xD8mm -- 4 pcs
    SOCKET HEAD SCREW M2.5x16mm -- 6 pcs
    M4 NUT -- 2 pcs
    WASHER d4xD9mm -- 4 pcs
    WASHER d2.5xD8mm -- 6 pcs
    COLLAR Ø4.1mm w/ set screw -- 4 sets
    WHEEL PANTS -- 1 pair
    WHEEL Ø62mm -- 2 pcs
    PLATE 1mm -- 2 pcs

13. LINKAGE CONNECTOR Ø2.1mm -- 2 sets

14. WIND SHIELD & SIDE WINDOWS -- 1 set
    SCREW PWA2.3x8mm -- 8 pcs
    SILICON GROMMET d1.5xD6.5mm -- 8 pcs

15. STRAPER -- 2 pcs
    FUEL TUBE Ø6x5mm -- 2 pcs
    SPONGE 60x70x122mm (For Radio Equipment) -- 1 pc.
    PUSHROD Ø1.8x110mm (For Elevator) -- 1 pc.

16. SCREW HM4x30mm -- 2 pcs
    WASHER d4xD15mm -- 2 pcs
    PLYWOOD 2x32.5x130mm (Wing Protection) -- 1 pc.

17. COWLING -- 1 pc.
    TRANSPARENT 3D TEMPLATE -- 1 pc.
    SCREW PWA2.6x12mm -- 8 pcs
    SILICON GROMMET d1.5xD6.5mm -- 8 pcs
    SPINNER Ø52mm -- 1 set
    AIR SCOOP -- 1 set

18. MAIN WING STRUT -- 1 pair
    SOCKET HEAD SCREW M2.5x16mm -- 4 pcs
    WING STRUTS COVER -- 1 set
    BATTERY COVER -- 1 pc.

19. DECALS A246DEC -- 1 set

COVERING:

TOUGHON STL100 WHITE
TOUGHON STL 580 PEARL BRONZE
LIGHTEX SGX 201 BLACK
LIGHTEX SGX 350 CORSAIR BLUE
1. **Main Wing**
   - Apply instant type CA glue to both sides of each hinge.

2. **Aileron & Flap Servos**
   - Ø1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

   - **PB2x20mm Screw**
     - 4
   - **PB2x16mm Screw**
     - 2
   - **PB2x22mm Screw**
     - 4
   - **PB2x18mm Screw**
     - 2
   - **PWA2x8mm Screw**
     - 16

   - **Straper**
     - Fuel Tube Ø6x5mm
   - **PB2x18mm**
     - Fuel Tube Ø6x5mm
   - **PB2x22mm**
     - Tri-horn M3x14mm(S)
   - **Clevis**
     - **PB2x20mm**
   - **PB2x16mm**
   - **Fuel Tube Ø6x5mm**
   - **Tri-horn M3x14mm(S)**
   - **Clevis**
   - **PWA2x8mm**
   - **Pushrod Ø1.8x110mm**
   - **Pushrod Ø1.8x95mm**

   - **Bottom View**

   - **Completed**
3 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.

Completed

4 Stabilizer & Elevator

*Also refer to step 19 Wing Setting

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

- Apply instant type CA glue to both sides of each hinge.
- Remove coverings for all surfaces in contact before applying A/B epoxy glue.

Completed
5 Vertical Fin & Rudder

- Apply instant type CA glue to both sides of each hinge.
- Remove coverings for all surfaces in contact before applying A/B epoxy glue.

![Vertical Fin & Rudder Diagram]

6 Elevator Pushrod

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

![Elevator Pushrod Diagram]

7 Rudder Pushrod

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

![Rudder Pushrod Diagram]
8 Engine Mount

M4x25mm Socket Head Screw

! Blind nuts are off-centered to keep the spinner at the fuselage axis.

9 Front Landing Gear

4.1mm Collar

M3x3mm Set Screw

1 2 3 4 Completed

5 Bottom View

Completed
10 Fuel Tank

- DOUBLE-SIDED TAPE 40x100mm
- CABLE TIE 1.5x5x400mm

11 Engine

- Installed Engine Position
- 127 mm 5.0 in.
- Plastic Tube d2xD3x140mm
- Throttle Pushrod Ø1.2x370mm
- M3x25mm Socket Head Screw 4
- d3xD7mm Washer 8
- M3 Nut 8

- M3x25mm
- d3xD7mm Washer
- M3 Nut
- Front Wheel Pushrod Ø1.4x260mm
- Plastic Tube d2.5xD4x140mm
12 Main Landing Gear

- HM4x45mm Screw
- KA2.3x8mm Screw
- d2x08mm Quick Release Nylon Rivet
- M2.5x16mm Socket Head Screw
- M4 Nut
- d4xD9mm Washer
- d2.5xD8mm Washer
- 4.1mm Wheel Collar

Bottom View

- Wheel Ø62mm
- d4xD9mm Washer
- 3mm Set Screw
- Plate 1mm
- 4.1mm Collar
- d2x08mm Quick Release Nylon Rivet

Completed

Please refer to the attached sheet for linkage connector installation.

13 Servo Set

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

Throttle Pushwire

- Washer 2mm
- M2 Nut

N.I.

Please refer to the attached sheet for linkage connector installation.

14 Canopy

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

First insert the grommet to the canopy then apply screw.

- PWA2.3x8mm
- 2mm

N.I.

- PWA2.3x8mm
- PWA2.3x8mm

- d1.5xD6.5mm Silicon Grommet

A246PO28151211
15 Radio Equipment

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

16 Main Wing

HM4x30mm Screw 2

d4xD15mm Washer 2
17 Cowling & Spinner

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

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

18 Wing Struts

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

- Please refer to the attached sheet for usage of the transparent 3D template.
Adjust the wing and fuselage configuration as shown in the diagrams.
Adjust the control throws as shown in the diagram. These throws are good for general flying. You can adjust according to your personal preference.

20 Control Throws

- **Rudder**: 20mm, 20mm
- **Elevator**: 20mm, 20mm
- **Flaps (near fuselage)**: 18mm
- **Ailerons (away from fuselage)**: 12mm, 12mm

The ideal C.G. position is 85mm (3.35in.) 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.

21 C.G.

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.
- **SkyLink 40** is specially designed to be powered by 2C 0.40-0.55 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.
**LINKAGE CONNECTOR**

**HW7111050 & HW7111060**

- 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.