Before commencing assembly, please read these instructions thoroughly.

**Blue Bird EP**

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**Specifications**

- **Wing Span**: 78 in / 1980mm
- **Wing Area**: 665 sq in / 42.9 sq dm
- **Flying Weight**: 39 oz / 1100g
- **Fuselage Length**: 40 in / 1020mm
- **Required**: speed 550 motor, 3-channel radio w/ 2 mini servos, 25A speed controller with brake and 7 cells 1800 mAh battery

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**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 power 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.*

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**THE WINGS MAKER**

FACTORY PRE-FABRICATED
ALMOST-READY-TO-FLY (ARF) SERIES
MADE IN CHINA
www.thewingsmaker.com

GE020
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.)**
- **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)**
- **Must be purchased separately!**
- **Pay close attention here!**
- **Do not overlook this symbol!**
- **Pierce the shaded portion covering film.**
**Parts list**

1. MAIN WING—1 set
   WING JOINER Ø6x226mm—1 pc.
2. STABILIZER & ELEVATOR—1 set
3. VERTICAL FIN & RUDDER—1 set
4. PUSHROD Ø1.4x695mm w/ Threads (For Elevator)—1 pc.
   SCREW PM2x10mm—2 pcs
   FUEL TUBE d2xD4x4mm—1 pc.
   CLEVIS—1 pc.
   HORN—1 set
5. PUSHROD Ø1.4x630mm w/ Threads (For Rudder)—1 pc.
   SCREW PM2x10mm—2 pcs
   FUEL TUBE d2xD4x4mm—1 pc.
   CLEVIS—1 pc.
   HORN—1 set
6. SPEED 550 MOTOR—1 set
   COWLING—1 pc.
   SCREW PWA2x8mm—4 pcs
   GEARBOX—1 set
   FOLDING PROPELLER SET (12x7)—1 set
   SPINNER Ø45mm—1 set
7. SPONGE 10x50x150mm—1 pc.
   DOUBLE-SIDED TAPE (30x35mm)—1 pc.
   BATTERY TIE—1 pc.
   STRAPER—2 pcs
   FUEL TUBE d2xD4x4mm—2 pcs
8. PVC PLATE 0.8x25x55mm (Wing Protection)—1 pc.
   WASHER 2.5x08mm—2 pcs
   SCREW PM2.5x16mm—2 pcs
9. CANOPY—1 set
10. DECALS—1 set

**COVERING:**
- LIGHTEX SGX 050 Transparent Blue
- LIGHTEX SGX 100 White
- LIGHTEX SGX 310 Red
- LIGHTEX SGX 550 Pearl Blue
- TOUGHLON STL 451 Checker Blue/White
1 Main Wing

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

Completed

Wing joiner Ø6x226mm

2 Stabilizer & Elevator

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

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

*Also refer to step 10 Wing Setting

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

Peel off shaded portion covering film.
4 Elevator Pushrod

- Ø1mm pilot holes for The Wings Maker tri-horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

5 Rudder Pushrod

- Ø1mm pilot holes for The Wings Maker tri-horn are pre-drilled. Please look for pin-hole marks at side of control surfaces.
Motor / Cowling Setting

To allow for backlash of matching gear, put a piece of thin paper between the gears and then tighten the M2.6X7mm screws. Remove the paper before flying.

1. M3 x 8mm Socket Head Screw
2. PM2.5 x 12mm Screw
3. PM2 x 16mm Screw
4. PWA2 x 8mm Screw
5. PA2.6 x 8mm Screw
6. M2.5 Nut
7. d2.5 x D8mm Washer
8. d3 x D7mm Washer
9. 3mm Set Screw

PM2 x 16mm

PM2 x 16mm

PM2.5 x 12mm

Ø1.2x41mm

PM2 x 16mm

PA2.6 x 8mm

Spinner

1mm

3mm Set Screw

6

4 5

70

50

456

289

36

407

396

385

374

363

352

341

330

319

308

297

286

275

264

253

242

231

220

209

198

187

176

165

154

143

132

121

110

99

88

77

66

55

44

33

22

11

0
7 Radio Equipment

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

8 Main Wing

- PM2.5 x 16mm Screw: 2
- d2.5 x D8mm Washer: 2

9 Canopy

- Completed
10 Wing Setting

- Adjust the wing and fuselage configuration as shown in the diagrams

A=A'  B=B'  C=C'

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**11 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: 15mm, 15mm
- Rudder: 30mm, 30mm

---

**12 C.G.**

The ideal C.G. position is 75mm (2.95 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.

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**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.

#Blue Bird CP is specially designed to be powered by geared speed 550 motor.

#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.

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