Before commencing assembly, please read these instructions thoroughly.

**RED SKIMMER EP**

**Specifications**

- Wing Span: 63.0 in / 1600 mm
- Wing Area: 420 sq in / 27 sq dm
- Flying Weight: 21 oz / 600 g
- Fuselage Length: 32.5 in / 830 mm

**Requires:**
- Speed 400 motor, 3-channel radio
- w/ 2 micro servos, 15A speed controller
- and 7-8 cells 1000 mAh battery

**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 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.*

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MADE IN CHINA
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GE019
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.
- **C.A**: Apply instant glue (C.A.glue, super glue.)
- **L/R**: 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!**
- **Warning!**
- **Pay close attention here!**
- **Do not overlook this symbol!**

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P.1
Parts list

1. MAIN WING -- 1 pair.
   WING JOINER Ø4.5 x 160 mm -- 1 pc.

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

3. VERTICAL FIN & RUDDER -- 1 set

4. PUSHROD Ø1.4X500 mm
   w/ Threads(For Elevator) -- 1 pc.
   SCREW PM2X8 mm -- 2 pcs
   HORN -- 1 set
   CLEVIS -- 1 pc.
   FUEL TUBE d2XD4X4 mm -- 1 pc.

5. PUSHROD Ø1.4 x 445 mm
   w/ Threads(For Rudder) -- 1 pc.
   SCREW PM2X10 mm -- 2 pcs
   HORN -- 1 set
   CLEVIS -- 1 pc.
   FUEL TUBE d2XD4X4 mm -- 1 pc.

6. SPEED 400 MOTOR -- 1 set
   GEARBOX -- 1 set
   FOLDING RPOPELLER SET (10X6) -- 1 set
   COWLING -- 1 pc.
   SCREW PWA2X8 mm -- 4 pcs
   SPINNER Ø36 mm -- 1 set

7. SPONGE 10X50X150 mm -- 1 pc.
   STRAPER -- 2 pcs
   FUEL TUBE d2XD4X4 mm -- 2 pcs
   DOUBLE-SIDED TAPE 30X35 mm -- 1 pc.
   BATTERY TIE -- 1 pc.

8. PVC PLATE 0. 8X20X42 mm (Wing Protection) -- 1 pc.
   SCREW PM2. 5X16 mm -- 2 pcs
   WASHER d2. 5XD8 mm -- 2 pcs

9. CANOPY -- 1 set
10. DECALS -- 1 set

- COVERING:
  LIGHTEX SGX 000 TRANSPARENT
  LIGHTEX SGX 310 RED
  LIGHTEX SGX 012 TRANSPARENT ROSE RED
  LIGHTEX SGX 241 TURQUOISE
  LIGHTEX SGX 100 WHITE
  LIGHTEX SGX 331 CUB YELLOW
1 Main Wing

- Wing Joiner Ø4.5 x 160mm

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.

Completed
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.

Bottom View

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.
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.
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

- Peel off shaded portion covering film.

9 Canopy

- Completed
10 Wing Setting

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

![Diagram showing control throws](image)

**12 C.G.**

The ideal C.G. position is 53mm (2.1 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.

![Image of a model airplane with C.G. highlighted](image)

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**Warning!**

**Important Safety Precautions**

1. First time flyer should never fly by himself/herself. Assistance from experienced flyer is absolutely necessary.

2. Pre-flight adjustment must be done before flying, it is very dangerous to fly a badly pre-adjusted aircraft.

3. **RED SKIMMER EP** is specially designed to be powered by speed 400 geared motor.

4. Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller.

5. 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.

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