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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>39.5 in / 1000 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>259 sq in / 16.7 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>22 oz / 620 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>31.5 in / 805 mm</td>
</tr>
</tbody>
</table>

*Specifications are subject to change without notice.*

Requires: 4-channel radio w/ 4 micro servos, Outrunner Motor KM0283800 20A brushless ESC, 3 cells 11.1V 2100 mAh Li - Po battery & charger.
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.)
- **Apply thread locker**
- **Ensure smooth non-binding movement while assembling.**
- **Assemble left and right sides the same way.**
- **Cut off shaded portion.**
- **Peel off shaded portion covering film.**
- **Must be purchased separately !**
- **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 pc.

2. PUSHROD Ø1.4x58mm w/ Threads (For Aileron) – 2 pcs
   FUEL TUBE Ø4x4mm – 4 pcs
   STRAPER – 2 pcs
   CLEVIS – 2 pcs
   HORN – 2 pcs
   SCREW PM2x16mm – 4 pcs

3. FUSELAGE – 1 pc.
   STABILIZER & ELEVATOR – 1 set

4. VERTICAL FIN & RUDDER – 1 set

5. TAIL LANDING GEAR – 1 set

6. PUSHROD Ø1.4x425mm w/ Threads (For Rudder) – 1 pc.
   CLEVIS – 1 pc.
   FUEL TUBE Ø4x4mm – 1 pc.
   HORN – 1 set
   SCREW PM2x8mm – 2 pcs

7. PUSHROD Ø1.4x405mm w/ Threads (For Elevator) – 1 pc.
   CLEVIS – 2 pcs
   FUEL TUBE Ø4x4mm – 1 pc.
   HORN – 1 pc.
   SCREW PM2x8mm – 2 pcs

8. SOCKET HEAD SCREW M3x8mm – 2 pcs
   SCREW PM2x12mm – 4 pcs
   SCREW PWA2x8mm – 4 pcs
   WASHER d3xD7mm – 2 pcs
   WASHER d2x05mm – 2 pcs
   M3 NUT – 2 pcs

9. STRAPER – 2 pcs
   FUEL TUBE Ø4x4mm – 2 pcs
   SPONGE 10x50x150mm – 1 pc.
   BATTERY TIE 200mm – 1 pc.
   DOUBLE-SIDED TAPE 30x35mm – 1 pc.

10. PLYWOOD 2x20x64mm (Wing Protection) – 1 pc.
    SCREW PM2.5x16mm – 2 pcs
    WASHER d2.5xD8mm – 2 pcs

11. MAIN LANDING GEAR – 1 set
    LANDING WIRE STRAPS PL411030 – 2 pcs
    SCREW PA2.3x12mm – 4 pcs
    MAIN WHEEL Ø40mm – 2 pcs
    COLLAR Ø2.6mm w/ set screw – 2 sets

12. CANOPY – 1 pc.
    SCREW PWA2x8mm – 4 pcs

COVERING:
   LIGHTEX SGX 196000  COVERING-RAMBLER EP
   LIGHTEX SGX 100  WHITE

400 GEAR BOX – 1 set
COWLING – 1 pc.
SPINNER Ø36mm SP26036FR0 – 1 pc.
FOLDING PROPELLER SET PL6314020 – 1 set
OUTRUNNER MOTOR KM0283800 – 1 pc.
**1 Main Wing**

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

**2 Aileron Servos**

- PM2x16mm Screw x4

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

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.

4 Vertical Fin & Rudder

- Apply instant type CA glue to both sides of each hinge.
5 Tail Landing Gear

6 Rudder Pushrod

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

7 Elevator Pushrod

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

1. Don't over-tighten the PM2 screws, too much stress on the screws could split the firewall.

2. To allow for backlash of matching gear, put a piece of thin paper between the gears and then tighten the M3x8mm screws. Remove the paper before flying.

3. Don't over-tighten the PM2 screws, let the propeller blades align themselves when spinning.

4. M3x8mm Set Screw

5. Steel Wire Ø1.2x35mm

6. Spinner Ø36mm

7. PA2.6 x 8mm

<table>
<thead>
<tr>
<th>Component</th>
<th>Code</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3x8mm Socket Head Screw</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PM2x12mm Screw</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PWA2x8mm Screw</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>d3x07mm Washer</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>d2x05mm Washer</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>M3 Nut</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
9 Radio Equipment

10 Main Wing

11 Main Landing gear
12 Canopy

PWA2 x 8mm Screw

13 Wing Setting

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

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

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

1mm PWA2 x 8mm

Pilot N.J.
14 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.

Rudder
20mm
20mm

Elevator
10mm
10mm

Aileron
8mm
8mm

15 C.G.

The ideal C.G. position is 58mm (2.28 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.

# **RAMBLER EP** is specially designed to be powered by KM0283800 Outrunner 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. 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.
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.
Ducted Fan Pattern

Warbirds Funfly

Scale Electric

Sports Glider

Trainer Boat

Accessories

Covering (Lightex / Toughlon)