OUTRAGEOUS & SCARLET SCREAMER (E337XM)

Designed by Jerry Small and Dan Kane

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.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
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<tbody>
<tr>
<td>Wing Span</td>
<td>52.2 in / 1325 mm</td>
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<tr>
<td>Wing Area</td>
<td>392 sq in / 25.3 sq dm</td>
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<tr>
<td>Flying Weight</td>
<td>3.4 lb / 1540 g</td>
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<tr>
<td>Fuselage Length</td>
<td>38.6 in / 980 mm</td>
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*Specifications are subject to change without notice.*

Requires: 4-channel radio w/ 4 mini servos. Outrunner Motor KM37490750 w/ Propeller Adaptor HW2340300 40A Brushless ESC, 11x8E Propeller, 4 cells 14.8V 3200 mAh Li-Po battery & charger.
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!
- Do not overlook this symbol!
Parts List

1. MAIN WING -- 1 pair

2. PUSHROD Ø1.8x76mm w/ Threads (For Aileron) -- 2 pcs
   SCREW PB2x14mm -- 4 pcs
   SCREW PA1.7x8mm -- 8 pcs
   HORN PL4113101 -- 2 sets
   STRAPER PL4112102 -- 2 pcs
   CLEVIS PL4112103 -- 2 pcs
   FUEL TUBE D6x5mm -- 4 pcs
   SERVO MOUNTING PANEL PL5310030 -- 1 pair

3. STABILIZER & ELEVATOR -- 1 set
   VERTICAL FIN & RUDDER -- 1 set
   FUSELAGE -- 1 pc.
   SOCKET HEAD SCREW M3x20mm -- 2 pcs
   WASHER d3xD7mm -- 2 pcs

4. TAIL LANDING GEAR -- 1 pc.
   PLASTIC RING PL4112023 -- 1 pc.

5. MAIN LANDING GEAR -- 1 pc.
   SOCKET HEAD SCREW M4x16mm -- 2 pcs
   WASHER d4.5xD9mm -- 10 pcs
   WHEEL PANTS -- 1 pair
   MAIN WHEEL Ø58mm -- 2 pcs
   SCREW PM4x40mm -- 2 pcs
   M4 NUT -- 2 pcs
   COLLAR Ø4.1mm w/ Set Screw -- 2 sets
   PLASTIC COLLAR d4.1xD8x3mm -- 2 pcs
   QUICK RELEASE NYLON RIVET PL1208042 -- 4 pcs
   ALUMINUM PLATE1mm -- 2 pcs
   SCREW KA2.3x8mm -- 4 pcs

6. PUSHROD Ø1.8x450mm w/ Threads (For Rudder) -- 1 pc.
   SCREW PB2x10mm -- 2 pcs
   HORN PL4113101 -- 1 set
   CLEVIS PL4112103 -- 1 pc.
   FUEL TUBE D6x5mm -- 1 pc.

7. PUSHROD Ø1.8x410mm w/ Threads (For Elevator) -- 1 pc.
   SCREW PB2x10mm -- 2 pcs
   HORN PL4113101 -- 2 pcs
   CLEVIS PL4112103 -- 2 pcs
   FUEL TUBE D6x5mm -- 1 pc.

8. WING TUBE Ø12x314mm -- 1 pc.
   SCREW HM5x25mm -- 4 pcs
   WASHER d5xD12mm -- 4 pcs

9. COWLING -- 1 pc.
   SCREW PWA2.3x8mm -- 4 pcs
   SILICON GROMMETS PL1265035 d1.5xD6.5mm -- 4 pcs
   SPINNER Ø38mm -- 1 set
   CABLE TIE 4x200mm -- 1 pc.
   DOUBLE-SIDED TAPE 30x35mm -- 1 pc.

10. BATTERY TIE 200mm -- 2 pcs
    SPONGE 40x60x80mm -- 1 pc.
    BATTERY MAT 2x50x150mm -- 1 pc.
    PLYWOOD (For Servo) 3x26x45mm -- 2 pcs
    STRAPER PL4112102 -- 2 pcs
    FUEL TUBE D6x5mm -- 2 pcs

11. CANOPY -- 1 pc.
    PILOT 0.5mm PVC -- 1 pc.
    DOUBLE-SIDED TAPE 2x23.5x29mm -- 1 pc.

12. DECALS: E337DEC -- 1 set

   COVERING:
   LIGHTEX SGX 311 FERRARI RED
   LIGHTEX SGX 100 WHITE
Apply instant type CA glue to both sides of each hinge.

- **Main Wing**
  - Bottom View

- **Aileron Servos**
  - Ø1 mm pilot holes for World Models horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.
    - PB2x14mm Screw 4
    - PA1.7x8mm Screw 8
  - Bottom View
  - Completed
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.

Completed
4 Tail Landing Gear

1. Plastic Ring

5 Main Landing Gear

- PM4x40mm Screw: 2
- M4x16mm Socket Head Screw: 2
- KA2.3x8mm Screw: 4
- d2x8mm Quick Release Nylon Rivet: 4
- M4 Nut: 4
- d4.5xD9mm Washer: 10
- 4.1mm Collar: 2
- d4.1xD8mm Plastic Collar: 2

![Bottom View](image)

![Completed](image)
6 Rudder Pushrod

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

PB2x10mm Screw 2

7 Elevator Pushrod

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

- **HM5x25mm Screw**
  - 4
- **d5xD12mm Washer**
  - 4

- **Completed**

Wing Tube Ø12x314mm

- **HM5x25mm**
- **d5xD12mm Washer**
Make sure rotating motor casing is not in contact with wirings or anything.

Don’t over-tighten the M3 screws, too much stress on the screws could split the firewall.
10 Radio Equipment

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

11 Canopy

- Bottom View

- Completed
12 Wing Setting

- **SCARLET SCREAMER**

- **OUTRAGEOUS**
13 **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**
  - LOW: 5mm, 4mm
  - HIGH: 7mm, 6mm

- **Rudder**
  - LOW: 10mm
  - HIGH: 10mm

- **Ailerons**
  - LOW: 5mm, 5mm
  - HIGH: 7mm, 7mm

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14 **C.G.**

- The ideal C.G. position is 60.3mm (2 3/8 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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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.

# OUTRAGEOUS & SCARLET SCREAMER is specially designed to be powered by KM37490750 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.
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.

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.
Optional Parts

3 - Pin EZ Connector

-ideal for electric models

2 - Pin EZ Connector

-ideal for electric models

E Z Connector Puller

EZ Connector Puller

40A Brushless ESC (2-4S)

- Current : 40A continuous
- Burst current ( < 10 seconds) : 55A
- Weight : 43g (with wires)
- BEC output : Switch 5V / 3A
- Input :
  - Li - ion / Li - poly 2 - 4 cells;
  - Nimh / Nicd 5 - 12 cells

Clevis Wrench

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

Radial Mount Adaptor Set

- Mounting Screw:
  - M3 (Front) and M2.5 (Back)
  - Distance of Mounting Holes:
    - 25mm (Front) and 15.5mm (Back)

Propeller Adaptor Wrench

Outrunner Motor 37 / 49 -750kv

- Kv (rpm / V): 750
- Operating Power: 590 W
- Operating Voltage: 8.5 - 18V
- Operating Current: 40A
- Peak Current: 65A (max.15 sec.)
- Internal Resistance: 34 m ohms
- Diameter: 37.2 mm
- Length: 49.4 mm
- Weight: 183 g
- Shaft Diameter: 5 mm
- Shaft Length: 20.6 mm
- Mounting Screw:
  - M3 (Front) and M2.5 (Back)
  - Distance of Mounting Holes:
    - 25mm (Front) and 15.5mm (Back)