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>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>40.5 in / 1030 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>288 sq in / 18.6 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>26.5 oz / 750 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>34.5 in / 880 mm</td>
</tr>
</tbody>
</table>

*Specifications are subject to change without notice.*
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.)**
- **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!**
- **Warning! Do not overlook this symbol!**
Parts List

1. MAIN WING -- 1 pair

2. SCREW PB2x14mm -- 4 pcs
   SCREW PA1.7x8mm -- 8 pcs
   STRAPER PL4112106 -- 2 pcs
   FUEL TUBE d2xD4x4mm -- 4 pcs
   CLEVIS PL4112105 -- 2 pcs
   HORN PL4112102 -- 2 sets
   PUSHROD Ø1.4x71mm w/ Threads (For Aileron) -- 2 pcs
   SERVO MOUNTING PANEL PL5310020 -- 1 pair

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

4. VERTICAL FIN & RUDDER -- 1 set

5. TAIL LANDING GEAR PL3410030 -- 1 set
   TAIL WHEEL PL3410030 Ø23mm -- 1 pc.
   PLASTIC COLLAR d1xD5x2mm -- 2 pcs
   SCREW PA2x8mm -- 2 pcs
   SCREW PM2x8mm -- 1 pc.
   M2 NUT -- 1 pc.
   ALUMINUM PLATE 0.3mm -- 1 pc.

6. SCREW PB2x10mm -- 4 pcs
   CLEVIS PL4112105 -- 2 pcs
   FUEL TUBE d2xD4x4mm -- 2 pcs
   HORN PL4112102 -- 2 sets
   PUSHROD Ø1.4x375mm w/ Threads (For Elevator) -- 2 pcs

7. SCREW PB2x10mm -- 2 pcs
   CLEVIS PL4112105 -- 1 pc.
   FUEL TUBE d2xD4x4mm -- 1 pc.
   HORN PL4112102 -- 1 set
   PUSHROD Ø1.4x445mm w/ Threads (For Rudder) -- 1 pc.

8. FOLDING PROPELLER SET (10x5) PL6314040 -- 1 set
   SCREW PM2x12mm -- 2 pcs
   SPINNER Ø45mm SP27045WHO -- 1 pc.
   SCREW PM3x6mm -- 4 pcs
   WASHER d3xD7mm -- 4 pcs
   COWLING -- 1 pc.
   SCREW PWA2x8mm -- 4 pcs

9. MAIN LANDING GEAR -- 1 set
   MAIN WHEEL Ø40mm -- 2 pcs
   WHEEL PANTS -- 1 pair
   SCREW PA2.6x10mm -- 3 pcs
   SCREW PM3x25mm -- 2 pcs
   WASHER d3xD7mm -- 4 pcs
   M3 NUT -- 2 pcs
   COLLAR Ø3.1mm w/ Set Screw -- 2 sets
   COPPER TUBE d3.1xD4x5mm -- 2 pcs
   ALUMINUM PLATE 0.5mm -- 2 pcs
   SCREW PWA2x6mm -- 4 pcs

10. EYE SCREW PA2.5x10x23mm -- 2 pcs
    WING TUBE d9.6x240mm -- 1 pc.
    RUBBER BAND D1x30mm -- 2 pcs

11. STRAPER PL4112106 -- 2 pcs
    FUEL TUBE d2xD4x4mm -- 2 pcs
    BATTERY TIE 200mm -- 1 pc.
    SPONGE 10x50x150mm -- 2 pcs
    DOUBLE-SIDED TAPE 30x35mm -- 1 pc.
    PUSHROD Ø1.4x52mm (For Elevator) -- 1 pc.
    PUSHROD CONNECTOR PL4410020 -- 1 set

12. CANOPY -- 1 pc.
    SCREW PM2x12mm -- 1 pc.
    WASHER d2xD5mm -- 1 pc.
    M2 NYLON INSERT LOCK NUT -- 1 pc.
    MOUNTING PLATE 5x15mm PL4114050 -- 1 pc.
    PILOT PC001050B -- 1 pc.

13. DECALS:E252XMDEC -- 1 set

COVERING:
LIGHTEX SGX252000
LIGHTEX SGX100 WHITE
LIGHTEX SGX540 PEARL GREEN
TOUGHLON STL142G CHECKER FERRARI RED/ GOLD
1. **Main Wing**

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

```
Aileron Servo Lead
```

```
● Bottom View
```

2. **Aileron Servo**

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

```
Straper
Fuel Tube d2xD4x4mm
PA1.7x8mm Screw
```

```
● Please choose either 02L & 02R or 03L & 03R or 04L & 04R that suits your servo.
```

```
Aileron Servo Lead
● Bottom View
```

```
C.A
Pushrod Ø1.4x71mm
Fuel Tube d2xD4x4mm
PB2x14mm Screw
```

```
8
PA1.7x8mm Screw
```

```
1
Aileron Servo Lead
Main Wing
2
```

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

```
TWM PL8210010
CLEVIS WRENCH
```

```
● 02L
● 03L
● 04L
● 02R
● 03R
● 04R
```

```
C.A
N.I.
2mm
Fuel Tube d2xD4x4mm
PB2x14mm
Clevis
Pushrod Ø1.4x71mm
```

```
N.I.
```

```
L/R
```

```
P.3
```

```
E252XMPO26401107
```
3 Stabilizer & Elevator

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 13 Wing Setting

4 Vertical Fin & Rudder

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

1

2

3 • Completed

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

- PA2x8mm Screw 2
- PM2x8mm Screw 1
- M2 Nut 1

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.

- PB2x10mm Screw 4

7 Rudder Pushrod

- Ø1mm pilot holes for World Models horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.
### 8 Outruner Motor / Cowling

<table>
<thead>
<tr>
<th>Screw / Washer</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM3x6mm</td>
<td>4</td>
</tr>
<tr>
<td>PM2x12mm</td>
<td>2</td>
</tr>
<tr>
<td>d3xD7mm Washer</td>
<td>4</td>
</tr>
<tr>
<td>PWA2x8mm</td>
<td>4</td>
</tr>
<tr>
<td>PA2.6x8mm</td>
<td>2</td>
</tr>
</tbody>
</table>

- Don’t over-tighten the PM3 screws, too much stress on the screws could split the firewall.
- Make sure rotating motor casing is not in contact with wirings or anything.

![Outruner Motor / Cowling Diagram](image)

### 9 Main Landing Gear

<table>
<thead>
<tr>
<th>Screw / Washer</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2.6x10mm</td>
<td>3</td>
</tr>
<tr>
<td>PM3x25mm</td>
<td>2</td>
</tr>
<tr>
<td>M3 Nut</td>
<td>2</td>
</tr>
<tr>
<td>d3xD7mm Washer</td>
<td>4</td>
</tr>
<tr>
<td>3.1mm Collar</td>
<td>2</td>
</tr>
<tr>
<td>d3.1xD4x5mm Copper Tube</td>
<td>2</td>
</tr>
</tbody>
</table>

- Bottom View
- Completed

![Main Landing Gear Diagram](image)

---

E252XMPO26401107 P.6
10 Main Wing

- Eye Screw
  - PA2.5x10x23mm

- Wing Tube
  - D9.6x240mm

- Aileron Servo Lead

- Rubber Band
  - 1.5mm
11 Radio Equipment

Install and arrange the servo as shown in the diagram.

Front

Straper  Elevator Servo  Battery Tie

12 Canopy

PM2x8mm Screw  1

d2xD5mm Washer  1

M2 Nylon Insert Lock Nut  1

Completed

Pilot

Fuel Tube  d2xD4x4mm

Elevator Pushrod  Ø1.4x52mm

J1(Pushrod Ø1.4x52mm)

J2(Pushrod Ø1.4x375mm)

Mounting Plate

PM2x8mm  2mm

Nylon Insert Lock Nut
13 Wing Setting

- Adjust the wing and fuselage configuration as shown in the diagrams.
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: 30mm
- Elevator: 20mm
- Aileron: 10mm

15 C.G.

The ideal C.G. position is 63.5mm (2.5 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.

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.

# Extra 300 EP is specially designed to be powered by KM0283010 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.

Sholder

Tighten up the round nut against the shoulder. Apply CA or permanent thread locker.
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

**ACCESSORIES**

3 - Pin EZ Connector

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KP0011310</td>
<td>40A Max. Current</td>
<td>1 set</td>
</tr>
</tbody>
</table>

- Ideal for electric models

2 - Pin EZ Connector

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KP0011210</td>
<td>40A Max. Current</td>
<td>1 set</td>
</tr>
</tbody>
</table>

- Ideal for electric models

Propeller Adaptor Wrench

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW3111400</td>
<td>d3xD5</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

Outrunner 28/ 30

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM0283010</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

- Max speed: 12000 rpm
- Kv (rpm/V): 1015
- Operating Power: 180W
- Operating Voltage: 6-12V
- Operating Current: 15A
- Peak Current: 20A (max. 15 sec.)
- Internal Resistance: 95 m ohms
- Diameter: 28mm
- Length: 30mm
- Weight: 60g
- Shaft Diameter: 3mm
- Shaft Length: 14.8 mm
- Mounting Screw: M3
- Distance of Mounting Holes:
  - Front (16mm and 19mm)

Brushless ESC

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KC2025A02A</td>
<td>24x45x11mm</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

- Voltage Range: 5.6 ~ 16.8V
- Current: 25A continuous
- Current (Burst, >10 seconds): 35A
- Weight: 24 g
  - (with wires and connector)
- BEC: 5V / 2A
- Low Voltage Cut-off / /
- Light weight with low internal resistance
  - for high current operation
- BEC function for Li-ion / Li-poly
  - 2 – 4 cells; Nimh / Nicd 5 – 12 cells operation.
- Low battery voltage auto cut off to reserve power to the servos.
- Safe start up motor.

Clevis Wrench

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>PI8210010</td>
<td>1 set</td>
<td></td>
</tr>
</tbody>
</table>

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

E252XMPO26401107
Ducted Fan Pattern
Warbirds Funfly
Scale Electric
Sports Glider
Trainer Boat
Accessories
Covering
(Lightex / Toughlon)