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>36 in / 920 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>225 sq in / 14.5 sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>28 oz / 790 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>32.5 in / 830 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. SERVO MOUNTING PANEL -- 1 pair
   PUSHROD Ø1.4x42mm w/ Threads (For Aileron Servo) -- 2 pcs
   STRAPER -- 2 pcs
   FUEL TUBE d2xD4x4mm -- 4 pcs
   CLEVIS -- 2 pcs
   HORN -- 2 pcs
   SCREW PB2x14mm -- 4 pcs
   SCREW PA1.7x8mm -- 8 pcs

3. PLYWOOD 3x67.8x217.8mm -- 1 pair
   CABLE TIE -- 4 pcs
   SCREW PM3x12mm -- 4 pcs
   SCREW PWA2.3x8mm -- 4 pcs
   WASHER d3xD7mm -- 4 pcs
   M3 NUT -- 4 pcs

4. RUDDER -- 1 pc.
   FUSELAGE -- 1 pc.

5. STABILIZER & ELEVATOR -- 1 set

6. MAIN LANDING GEAR -- 1 set
   LANDING WIRE STRAPS (PL4114030) -- 2 pcs
   MAIN WHEEL PL3116040 Ø40mm -- 2 pcs
   COLLAR Ø2.6mm w/ set screw -- 4 sets
   SCREW PA2x8mm -- 4 pcs

7. FRONT LANDING GEAR -- 1 set
   PLASTIC COLLAR d1.1xD5x2mm -- 2 pcs
   FRONT WHEEL PL3111250 Ø23mm -- 1 pc.
   SCREW PA2x8mm -- 2 pcs

8. PUSHROD Ø1.2x440mm w/ Threads (For Rudder Servo) -- 1 pc.
   HORN -- 1 set.
   SCREW PB2x12mm -- 2 pcs

9. PUSHROD Ø1.2x533mm w/ Threads (For Elevator Servo) -- 1 pc.
   HORN -- 1 set
   SCREW PB2x8mm -- 2 pcs
   SCREW PA2x5mm -- 3 pcs
   PVC COVER 0.5mm -- 1 pc.

10. PUSHROD Ø0.8x206mm (For Front Landing Gear) -- 1 pc.
    PLASTIC TUBE d2xD3x140mm -- 1 pc.
    CLEVIS (d1.2mm) -- 2 pcs
    FUEL TUBE d2xD4x4mm -- 2 pcs
    PLYWOOD 2x9.4x15mm -- 1 pc.
    BATTERY TIE 200mm -- 1 pc.
    SPONGE 10x50x150mm -- 1 pc.

11. EYE SCREW PA2.5x10x23mm -- 2 pcs
    WING TUBE d9.6x284mm -- 1 pc.
    RUBBER BAND D30x1mm -- 2 pcs

12. CANOPY W/ COCKPIT ASSEMBLY -- 1 pc.
    PILOT (PC101042A) -- 2 pcs

13. DECAL:E272XMDEC-- 1 set
   ● COVERING:--
     LIGHTEX SGX 540 PEARL GREEN
     LIGHTEX SGX 331 CUB YELLOW
     LIGHTEX SGX 100 WHITE
**Main Wing**

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

**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.

- Please choose either 02L & 02R or 03L & 03R or 04L & 04R that suits your servo.
3 Ducted Fan Propulsion Unit with 28/31 Motor

**Optional Parts**

- PM3x12mm Screw
- d3xD7mm Washer
- M3 Nut
- PWA2.3x8mm Screw

Make sure TWM logo on ducted fan stay on left side of fuselage.

Make sure rotating motor casing is not in contact with wiring or anything.

ESC  30A Brushless ESC

Ducted Fan  TWM

Plywood  3x67.8x217.8mm

Cable Tie

PL6800010

Outrunner Motor 28/31
KM0283110

30A Brushless ESC
KP0011310

30A Brushless ESC
KC2030A02
4 Rudder

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

5 Stabilizer & Elevator

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

6 Main Landing Gear

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

---

P.5
7 Front Landing Gear

- Ø1mm pilot hole is pre-drilled. Please look for pin-hole marks at under side of fuselage.

- PA2x8mm Screw 2

8 Rudder Pushrod

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

- PB2x12mm Screw 2

9 Elevator Pushrod

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

- PB2x8mm Screw 2
- PA2x5mm Screw 3
10 Radio Equipment

- Install and arrange the equipment as shown in the diagrams.
11 Main Wing

- Eye Screw PA2.5x10x23mm
- Wing Tube Ø9.6x284mm
- Rubber Band 1.5mm

Bottom View

- Lead To Aileron Servo
- Wing Tube Ø9.6x284mm

Front

- Rubber Band

Front
13 Wing Setting

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

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

P.9
## 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.

- **Elevator**
  - 6mm
  - 6mm

- **Rudder**
  - 12mm
  - 12mm

- **Ailerons**
  - 6mm
  - 6mm

## 15 C.G.

- The ideal C.G. position is **57mm (2.25in)** 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.

- **57mm 2.25in**

---

### ! 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.

# **UniJet** is designed for high speed flying. Too low an air speed during take off or landing may cause tip stall. Point the **UniJet** towards the wind, use full throttle and let the **UniJet** gain enough ground speed before pulling the elevator gently for take off. For landing, approach against the wind, maintain power to the ducted fan to keep enough air speed before touch down.

# 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. 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.
## Optional Parts

### ACCESSORIES

<table>
<thead>
<tr>
<th>Optional Parts</th>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>30A Brushless ESC</strong></td>
<td>KC2030A02</td>
<td>24 x 45 x11mm</td>
<td>1 pc</td>
</tr>
<tr>
<td><strong>Ducted Fan Propulsion Unit without Motor</strong></td>
<td>PL6800010</td>
<td></td>
<td>1 set</td>
</tr>
<tr>
<td><strong>Clevis Wrench</strong></td>
<td>PL8210010</td>
<td></td>
<td>1 set</td>
</tr>
<tr>
<td><strong>180mm Extension For Park Flyer</strong></td>
<td>KW0011800</td>
<td>180mm</td>
<td>1 set</td>
</tr>
<tr>
<td><strong>2 - Pin EZ Connector</strong></td>
<td>KP0011210</td>
<td>40A Max. Current</td>
<td>1 set</td>
</tr>
<tr>
<td><strong>3 - Pin EZ Connector</strong></td>
<td>KP0011310</td>
<td>40A Max. Current</td>
<td>1 set</td>
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<tr>
<td><strong>Heat Shrink Tube</strong></td>
<td>PT1115050</td>
<td>D5mm x 10cm</td>
<td>2 pcs x 3 colors</td>
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<tr>
<td><strong>Micro Servo</strong></td>
<td>SV2031</td>
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<td><strong>Silicon Wire</strong></td>
<td>HW2110101</td>
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<tr>
<td><strong>Outrunner 28 / 31 (for ducted fan)</strong></td>
<td>KM0283110</td>
<td>D28 x 31 mm</td>
<td>1 set</td>
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<tr>
<td><strong>Special tool for clevis installation. Suitable for standard and small (EP) clevis.</strong></td>
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<tr>
<td><strong>Special tool for clevis installation. Suitable for electric models</strong></td>
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<tr>
<td><strong>-Thrust : Approx. 560A</strong></td>
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<tr>
<td><strong>-Weight : 60g (without motor)</strong></td>
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</tr>
<tr>
<td><strong>-Rotor diameter : 67 mm</strong></td>
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<tr>
<td><strong>-Outer casing diameter : 74 mm</strong></td>
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<tr>
<td><strong>-Color : Black</strong></td>
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<tr>
<td><strong>-Current : 30A continuous</strong></td>
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<td><strong>-Burst current ( &lt; 10 seconds) : 40A</strong></td>
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<td><strong>-Weight : 25g (with wires)</strong></td>
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<tr>
<td><strong>-BEC output : 2A</strong></td>
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</tr>
<tr>
<td><strong>-Input : Li - ion / Li - poly 2 - 4 cells; Nimh / Nicd 5 - 12 cells</strong></td>
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<tr>
<td><strong>-Kv (rpm / V): 3600</strong></td>
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<td><strong>-Operating Power: 375W</strong></td>
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<td><strong>-Peak Current: 35A (max. 15 sec.)</strong></td>
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<tr>
<td><strong>-Internal Resistance: 25 m ohms</strong></td>
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<td><strong>-Diameter: 28 mm</strong></td>
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<td><strong>-Length: 31 mm</strong></td>
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<td><strong>-Weight: 58 g</strong></td>
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<td><strong>-Shaft Diameter: 3 mm</strong></td>
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<tr>
<td><strong>-Shaft Length: 14.8 mm</strong></td>
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<tr>
<td><strong>-Mounting Screw: M3 (Front) and M2 (Back)</strong></td>
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<tr>
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<td><strong>-1 M black &amp; 1 M red / pkg</strong></td>
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</table>
Ducted Fan Pattern
Warbirds Funfly
Scale Electric
Sports Glider
Trainer Boat
Accessories
Covering
(Lightex/Toughlon)