SUPER TAIJI EP (40)

450W Motor System
ReQUIRES: 4-channel radio w/ 4 mini servos, Outrunner Motor KM0374810, w/ Propeller Adaptor HW2340300, 40A Brushless ESC, 11x8E propeller, 4 cells 14.8V 3200 mAh Li - Po battery & charger.

Specifications

- Wing Span: 52 in / 1320 mm
- Wing Area: 490 sq in / 31.6 sq dm
- Flying Weight: 3.9 lb / 1770 g
- Fuselage Length: 53.5 in / 1350 mm

*Specifications are subject to change without notice.*

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.
SUPER TAIJI EP (40)

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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 :-

   ![Symbol 1] Apply epoxy glue.

   ![Symbol 2] Apply instant glue (C.A. glue, super glue.)

   ![Symbol 3] Apply thread locker

   ![Symbol 4] Must be purchased separately!

   ![Symbol 5] Assemble left and right sides the same way.

   ![Symbol 6] Ensure smooth non-binding movement while assembling.

   ![Symbol 7] Peel off shaded portion covering film.

   ![Symbol 8] Cut off shaded portion.

   ![Symbol 9] Drill holes with the specified diameter (here: 3mm).

   ![Symbol 10] Pierce the shaded portion covering film.

   ![Symbol 11] Pay close attention here!

   ![Symbol 12] Warning! Do not overlook this symbol!
Parts List

1. MAIN WING -- 1 pair
   SCREW PB2x18mm -- 4 pcs
   SCREW PA1.7x8mm -- 8 pcs
   STRAPER PL4112106 -- 2 pcs
   FUEL TUBE d2xD4x4mm -- 4 pcs
   CLEVIS PL4112105 -- 2 pcs
   HORN PL4113102 -- 2 sets
   PUSHROD Ø1.4x67mm w/ Threads (For Aileron) -- 2 pcs
   SERVO MOUNTING PANEL PL5310030 -- 1 pair

3. STABILIZER & ELEVATOR -- 1 set
   FUSELAGE -- 1 pc.
   STABILIZER TUBE Ø8x168mm -- 1 pc.
   SCREW PA2.6x10mm -- 2 pcs
   WASHER d3xD7mm -- 2 pcs

4. VERTICAL FIN & RUDDER -- 1 set

5. TAIL LANDING GEAR -- 1 set
   TAIL WHEEL Ø23mm -- 1 pc.
   COLLAR Ø21mm w/ set screw -- 1 pc.
   SCREW PA2.6x10mm -- 2 pcs

6. SCREW PB2x16mm -- 4 pcs
   CLEVIS PL4112105 -- 2 pcs
   FUEL TUBE d2xD4x4mm -- 2 pcs
   HORN -- 2 sets
   PUSHROD Ø1.4x810mm w/ Threads (For Elevator) -- 2 pcs

7. SCREW PB2x18mm -- 2 pcs
   CLEVIS PL4112105 -- 1 pc.
   FUEL TUBE d2xD4x4mm -- 1 pc.
   HORN -- 1 set
   PUSHROD Ø1.4x865mm w/ Threads (For Rudder) -- 1 pc.

8. SOCKET HEAD SCREW M3x12mm -- 4 pcs
   WASHER d3xD7mm -- 4 pcs
   COWLING -- 1 pc.
   SPINNER Ø62mm PL2111062 -- 1 set

9. MAIN LANDING GEAR -- 1 set
   MAIN WHEEL Ø50mm -- 2 pcs
   WHEEL PANTS -- 1 pair
   SOCKET HEAD SCREW M2.5x12mm -- 4 pcs
   SCREW H1x35mm -- 2 pcs
   WASHER d2.5xD8mm -- 4 pcs
   WASHER d3xD7mm -- 4 pcs
   QUICK RELEASE NYLON RIVET PL1208042 -- 4 pcs
   M3 NUT -- 2 pcs
   COLLAR Ø3.1mm w/ Set Screw -- 4 sets
   ALUMINUM PLATE1mm -- 2 pcs

10. STRAPER -- 2 pcs
     FUEL TUBE d2xD4x4mm -- 2 pcs
     BATTERY TIE 270mm -- 2 pcs
     SPONGE 10x50x150mm -- 2 pcs
     DOUBLE-SIDED TAPE 30x35mm -- 1 pc.
     PUSHROD Ø1.4x42mm (For Elevator) -- 1 pc.
     PUSHROD CONNECTOR PL4410020 -- 1 set

11. WING TUBE Ø16x438mm -- 1 pc.
     SELF-TIGHTENING LATCHING PIN PL9120010 -- 2 pcs
     WIRE Ø0.6mm -- 1 pair
     M3x6mm SET SCREW -- 2 pcs

12. COCKPIT -- 1 pc.

COVERING:
TOUGHON STL6330000
TOUGHON STL100 WHITE
1 Main Wing

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

![Main Wing Diagram]

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.

![Aileron Servo Diagram]

Bottom View
3 Stabilizer & Elevator

- Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.
- Drill Ø2 mm pilot holes on the stabilizer tube before applying the PA2.6 mm screw.

4 Vertical Fin & Rudder

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

Completed
5 Tail Landing Gear

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.

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.
Outrunner Motor / Cowling / Spinner

Optional Parts

- Make sure the rotating motor casing is not in contact with wirings or anything.

Motor Mount
M5x12mm Socket Head Screw
- 4

Outlet or 3348 Deluxe
KM0374810

Radial Mount Adapter Set
HW2340300

Propeller Set (11xE)
PL3111198

M2.5x12mm
M3x8mm
M3x6mm
3x7mm Washer

M2.5x12mm Socket Head Screw

M3x8mm Socket Head Screw

d3x7mm Washer

M3x12mm Socket Head Screw

Double-Sided tape

Brushless ESC

PA3x12mm

Spinner Ø52mm

Completed

PWA2.6x8mm

N.I.
9 Main Landing Gear

- M2.5x12mm Screw: 4
- d2.5xD8mm Washer: 4
- HM3x35mm Screw: 2
- M3 Nut: 2
- 3.1mm Collar: 4
- d3xD7mm Washer: 4
- Quick Release Nylon Rivet: 4
- KA2.5x8mm Screw: 4

![Bottom View of Designed Object]

10 Radio Equipment

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

![Diagram of Radio Equipment Installation]

- Battery Tie
- N.I. Receiver
- N.I. Rudder Servo
- Straper
- Elevator Servo
- Pushrod Connector
- Elevator Pushrod Ø1.4x42mm
- KA1.7x6mm
- N.I. Battery
- Sponge
- Fuel Tube d2xD4x4mm
- J1 (Pushed Ø1.4x42mm)
- J2 (Pushed Ø1.4x10mm)
11 Main Wing

- PWA2 x 12mm Screw: 4
- 3 x 6mm Set Screw: 2

L/R

- Wire Ø0.6mm Set Screw: 3mm
- Self-Tightening Wing Latch: M3x8mm
- Wing Tube: 2016x258mm
- Lead to Aileron Servo

- Completed

12 Cockpit

- off/ on

- Completed
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.

15 C.G.

The ideal C.G. position is 114mm (4.5 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.

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.

# SUPER TAIJI EP (40) is specially designed to be powered by KM0374810 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.
LINKAGE CONNECTOR
HW7111050 & HW7111060

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.
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>
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</table>

-ideal for electric models

2 - Pin EZ Connector

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

-ideal for electric models

40A Brushless ESC

<table>
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<th>Code No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>KC2040A02</td>
<td>55 x 28 x 12 mm</td>
</tr>
</tbody>
</table>

-Current : 40A continuous
-Burst current ( < 10 seconds) : 55A
-Weight : 33g (with wires)
-BEC output : 3A
-Input : Li-ion / Li-poly 2 - 5 cells;
-NiMH / Nicd 5 - 15 cells

Clevis Wrench

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>PL8210010</td>
<td>1 set</td>
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Special tool for clevis installation.
Suitable for standard and small (EP) clevis.

Radial Mount Adaptor Set

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<th>Size</th>
<th>Package</th>
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Propeller Adaptor Wrench 24mm

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<td>HW3112400</td>
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Outrunner 37/48 Deluxe

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<th>Size</th>
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<tbody>
<tr>
<td>KM0374810</td>
<td>1 pc</td>
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</table>

-Kv (rpm / V) : 770
-Operating Power: 450 W
-Operating Voltage: 8.5 - 18 V
-Operating Current: 30 A
-Peak Current: 36A (max. 15 sec.)
-Internal Resistance: 34 m ohms
-Diameter: 37.2 mm
-Length: 48.5 mm
-Weight: 172 g
-Shaft Diameter: 5 mm
-Shaft Length: 21 mm
-Mounting Screw: M3 (Front) and M2.5 (Back)
-Distance of Mounting Holes:
  25mm (Front) and 15.5mm (Back)