Tai Ji - 60

INSTRUCTION MANUAL

EXPERIENCED FLIER
ALMOST-READY-TO-FLY
ARF

0.61 cubic inch displacement 2-cycle
0.91 cubic inch displacement 4-cycle

Radio required: 5 channels, 6 servos airplane radio

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>67in / 1700 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>817 sq.in / 52.7 sq.dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>7.9 lbs / 3600g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>67 in / 1700mm</td>
</tr>
</tbody>
</table>

*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 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.

THE WORLD MODELS MANUFACTURING CO.LTD.
FACTORY PRE-FABRICATED ALMOST-READY-TO-FLY (ARF) SERIES
MADE IN CHINA
www.theworldmodels.com
Tai Ji - 60

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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 be difficult to extend to the good parts that are good before gluing to defective parts during assembly.

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.)
   - L/R: 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)
   - Must be purchased separately!
   - Pay close attention here!
   - Warning!
   - Pierce the shaded portion covering film.
   - Do not overlook this symbol!
### Parts List

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fuselage --</td>
<td>1 set</td>
</tr>
<tr>
<td>2</td>
<td>Main Wing --</td>
<td>1 pair</td>
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<tr>
<td>3</td>
<td>Stabilizer &amp; Elevator --</td>
<td>1 set</td>
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<tr>
<td>4</td>
<td>Vertical Fin &amp; Rudder --</td>
<td>1 set</td>
</tr>
<tr>
<td>5</td>
<td>Canopy --</td>
<td>1 set</td>
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<tr>
<td>6</td>
<td>Cowling --</td>
<td>1 PC.</td>
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<tr>
<td></td>
<td>Transparent Dummy Cowling --</td>
<td>1 PC.</td>
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<td>7</td>
<td>Pilot (#PC001063A) --</td>
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<tr>
<td>8</td>
<td>Spinner Ø70mm --</td>
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<td>9</td>
<td>Engine Mount PL511-070 --</td>
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<td>10</td>
<td>Fuel Tank 380cc --</td>
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<td>11</td>
<td>Sponge 10 x 80 x 200 mm (For Radio Equipment) -- 2 pcs</td>
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<td>12</td>
<td>Main Wheel Ø57mm --</td>
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<td>13</td>
<td>Tail Landing Gear --</td>
<td>1 set</td>
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<td>14</td>
<td>Tail Wheel Ø25mm --</td>
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<td>Pushrod, Pushwire &amp; Pullwire --</td>
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<td>w/Plastic tube Ø2 x D3 x 123mm -- 1 set</td>
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<td>w/Plastic tube Ø2 x D3 x 180mm -- 1 set</td>
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<td>Plywood Ø3 x 8 x 16mm (For Wing Cover) -- 10 pcs</td>
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<td>Plywood Ø3 x 61 x 91mm (For Throttle Servo) -- 1 pc</td>
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<td>18</td>
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<td>Clipper -- 6 pcs</td>
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<td>Tri-Horn M3 x 14mm (L) --</td>
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<td>Plastic Tube -- 2 pcs</td>
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<td>19</td>
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<td>Adjuster 2.1mm --</td>
<td>3 sets</td>
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<td>Collar 2.1mm w/ set screw --</td>
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<td>Collar 4.1mm w/ set screw --</td>
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<td>Nut 2mm -- 3 pcs</td>
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<td>Nut 4mm -- 8 pcs</td>
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<td>Screw PA3 x 12mm --</td>
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<td>Washer Ø4 x D9mm --</td>
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<td>Washer Ø4 x D15mm --</td>
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<td>Fuel Tube Ø6 x 5mm --</td>
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<td>Heat-Shrink Tube ØØ x 40 --</td>
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<tr>
<td>22</td>
<td>Fuselage Sticker &amp; Logo --</td>
<td>1 set</td>
</tr>
</tbody>
</table>

P.2
1. Main Wing
Peel off shaded portion covering film

2. Aileron Servo
Peel off shaded portion covering film

3. Aileron Servo
PM2 x 25mm Screw - 6

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

- KA3 X1 4 mm Screw: 8
- 3 mm Set Screw: 2
- 4.1 mm Collar: 2
- Wheel Ø57mm
- 3 mm Set Screw 4.1 mm Collar
- KA3 X1 4 mm

5 Landing Gear Servo

- Adjuster
  - 3 x 3 mm Set Screw: 2
- Linkage Stopper: 2
- 2 mm Nut: 2
- 2 mm Washer: 4

- N.I.
- 1.5 mm

- Wheels up position
  - To R-side
  - 28 mm Stroke
- Wheels down position
  - To L-side
  - 28 mm Stroke
6 Stabilizer

7 Vertical Fin / Rudder

8 Tail Landing Gear

PA3 x 12mm Screw  
2

3mm Set Screw  
1

2.1mm collar  
1

Wheel Ø25mm

3mm Set Screw  
1

2.1mm collar  
1
9 Engine Mount

- Engine Mount
  - PM4 x 25mm Screw: 4
  - 4mm Washer: 4
  - M4 x 25mm Screw: 4

Apply thread locker to screws.

10 Fuel Tank

- Fuel Tank 380cc
- Install Balsa & Plywood for fixing fuel tank:
  - Balsa 10 x 10 x 60mm
  - Plywood 3 x 10 x 91mm

Bottom View

11 Engine

- PM4 x 30mm Screw: 4
- d4 x D9mm Washer: 8
- 4mm Nut: 4
- Plastic tube d2 x D3 x 180mm
- Throttle Pushwire Ø1.2 x 320mm
- Spinner Ø70mm
- Install Engine position

Apply thread locker to screws.
12 Elevator Pushrod

1.8 x 120mm

Heat-shrink Tube

8 x 700mm

1.8 x 195mm

1.8 x 190mm

Fuel Tube Ø6 x 5mm

Clipper

Be careful not to scorch the heat-shrink tube!

COMPLETED

13 Elevator Pushrod

Elevator Pushrod

Plastic Tube d2.5 x D4 x 830mm

14 Servo Set

Adjuster

3 x 3mm Set Screw 1

Linkage Stopper 1

2mm Nut 1

2mm Washer 2

Throttle Pushwire

Included with the Radio Set.

N.I. Throttle Servo
15 Radio Equipment

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

- Bottom View

16 Rudder Pushwire

- PM2 x 25mm Screw
- 2mm Nut
- Plastic Tube d2 x D3 x 50mm
- Copper Tube Ø6 x 5mm

17 Elevator Pushrod

- PM2 x 20mm Screw
- PM2 X 20mm
- Fuel Tube Ø6 x 5mm
- Tri-horn 2mm

- Bottom View
18 Main Wing

PM4 x 35mm Screw x 2

d4 x D15mm Washer x 2

19 Cowling

PWA2.6 x 12mm Screw x 5

9mm Silicon Grommet x 5
20 Wing Cover
For installation of Belly Pan, please follow diagram A to D

![Diagram A](image)
Set screw 3mm

![Diagram B](image)

![Diagram C](image)
Belly pan

![Diagram D](image)
PWA2.3 X 8mm

21 Canopy

![Diagram E](image)
PWA2.3 x 8mm Screw

22 Wing Setting
Adjust the wing and fuselage configuration as in the diagrams.

![Diagram F](image)

![Diagram G](image)

P.10
23 Control Ranges

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
30.4mm
30.4mm

Rudder
86.6mm
86.6mm

Aileron
16.8mm
16.8mm

24 C.G. Point

The ideal C.G. position is 150mm (5.91 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.

150mm
5.91 in.

! 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.

# Tai Ji - 60 is specially designed to be powered by 2C 0.6 or 4C 0.91 engine. using a more powerful engine does not mean better performance. In fact, over powered engine may cause structural damage and injuries.

# 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.

# Check and re-tighten up all factory assembled screws, use thread locker if applicable.
Usage of the transparent 3D template

This transparent 3D template is used for position guidance of the actual cutting of the pre-painted cowling.

Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.