**F4U CORSAIR EP**

Requires: 5-channel radio w/ 5 micro servos, Outrider Motor KM0283010 w/ Propeller Adaptor HW2340100, 20A brushless ESC, 3 cells 11.1V 2100 mAh Li - Po battery & charger.

### Specifications

- **Wing Span**: 39.5 in / 1000 mm
- **Wing Area**: 282 sq in / 18.2 sq dm
- **Flying Weight**: 32 oz / 905 g
- **Fuselage Length**: 31.5 in / 800 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.
F4U CORSAIR EP

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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 :-

- **Apply epoxy glue.**

- **Apply thread locker**

- **Assemble left and right sides the same way.**

- **Peel off shaded portion covering film.**

- **Drill holes with the specified diameter (here: 3mm).**

- **Pay close attention here!**

- **Apply instant glue (C.A.glue, super glue.)**

- **Must be purchased separately!**

- **Ensure smooth non-binding movement while assembling.**

- **Cut off shaded portion.**

- **Pierce the shaded portion covering film.**

- **Warning!** Do not overlook this symbol!
Parts List

1. MAIN WING (Pre-installed
   w/ retractable landing gears of wheels) – 1 pair
2. SERVO MOUNTING PANEL – 1 pair
   SCREW PB2x14mm – 4 pcs
   SCREW PA1.7x8mm – 8 pcs
   STRAPER – 2 pcs
   CLEVIS – 2 pcs
   HORN – 2 sets
   FUEL TUBE d2xD4x4mm – 4 pcs
   PUSHROD Ø1.4x67mm w/ Threads (For Aileron) – 2 pcs
3. RETRACTABLE LANDING GEAR COVER – 2 sets
   COVERING FILM 30x35mm – 2 pcs
4. STABILIZER & ELEVATOR – 1 set
   FUSELAGE – 1 pc.
5. VERTICAL FIN & RUDDER – 1 set
   TAIL LANDING GEAR – 1 set
   TAIL WHEEL Ø23mm – 1 pc.
   PLASTIC COLLAR d1xD5x2mm – 2 pcs
   SCREW PA2x8mm – 2 pcs
6. SCREW PB2x8mm – 2 pcs
   CLEVIS – 1 pc.
   FUEL TUBE d2xD4x4mm – 1 pc.
   HORN – 1 set
   PUSHROD Ø1.4x400mm w/ Threads (For Rudder) – 1 pc.
7. SCREW PB2x8mm – 4 pcs
   CLEVIS – 2 pcs
   FUEL TUBE d2xD4x4mm – 2 pcs
   HORN – 2 sets
   PUSHROD Ø1.4x415mm w/ Threads (For Elevator) – 2 pcs
8. SCREW PM3x6mm – 4 pcs
   SCREW M2.5x8mm – 4 pcs
   WASHER d3xD7mm – 8 pcs
   FOLDING PROPELLER SET (11x5) – 1 set
   COWLING – 1 pc.
   SCREW PWA2x8mm – 4 pcs
   EP SPINNER NUT Ø15mm – 1 set
   MOTOR MOUNT PL5440000 – 1 pc.
9. PUSHROD Ø1.4x50mm (For Elevator) – 1 pc.
   BATTERY TIE 200mm – 1 pc.
   FUEL TUBE d2xD4x4mm – 2 pcs
   STRAPER – 2 pcs
   PUSHROD CONNECTOR 5.6x7.2x16mm – 1 set
   SPONGE 10x50x150mm – 1 pc.
   DOUBLE-SIDED TAPE 30x35mm – 1 pc.
10. SCREW PM2.5x25mm – 2 pcs
    WASHER d2.5x3mm – 2 pcs
11. CANOPY – 1 pc.
    SCREW PWA2x8mm – 4 pcs
    PILOT (PC101042A) – 1 pc.
12. DECALS – 1 set

● COVERING:
   LIGHTEX SGX 100 WHITE
   LIGHTEX SGX 350 CORSAIR BLUE
1 Main Wing

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

- Bottom View

2 Aileron Servos

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

- Bottom View

- Please choose either (02L & 02R) or (03L & 03R) or (04L & 04R) that suits your servo.
3 Retract Servo & Retractable Landing Gear

- KA2.3x12mm Screw: 8
- 2.6mm Collar: 2
- M3x3mm Set Screw: 2

![Retract Servo Lead](image)

- Bottom View
- Completed

- Aileron Servo Lead
- Wheel Ø40mm
- KA2 3x12mm
- M3x3mm Set Screw
- Retractable Landing Gear Pre-installed

4 Stabilizer & Elevator

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

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

- [Image of stabilizer and elevator setup]
- Completed
5 Vertical Fin, Rudder & Tail Landing Gear

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

6 Rudder Pushrod

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

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 Outrunner Motor / Cowling / Spinner

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

- Don't over-tighten the PM3 screws, too much stress on the screws could split the firewall.

- Don't over-tighten the PM2 screws, let the propeller blades align themselves when spinning.

- Completed

Optional Parts

- Outrunner Motor 28/30
  - KM0283010
- Propeller Adaptor (d3xD5)
  - HW2340100

Optional Parts

- 20A Brushless ESC
  - TWM KC202SA02A

Required Parts

- M2.5x8mm Socket Head Screw
- PWA2x8mm Screw
- PM2x12mm Screw
- PM3x6mm Screw
- d3xD7mm Washer
- M2.5x8mm Socket Head Screw
- d3xD7mm Washer
- PM3x6mm

Completed
9 Radio Equipment

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

- Bottom View

- Top View

- Completed

- Front View

- 20A Brushless ESC

- Double-Sided Tape
10 Main Wing

PM2.5x25mm Screw 2

d2.5xD8mm Washer 2

Bottom View

11 Canopy

PWA2x8mm Screw 4

L/R

12 Wing Setting

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

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

Pilot

PM2.5x25mm
d2.5xD8mm Washer

PWA2x8mm
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.

- Rudder
  - 15mm
  - 15mm

- Elevator
  - 10mm
  - 10mm

- Aileron
  - 6mm
  - 6mm

14 C.G.

The ideal C.G. position is 57 mm (2.25 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.

- Measure C.G. with the wheels in retracted position.

! 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.

# F4U CORSAIR 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.
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>
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</table>

-ideal for electric models

Propeller Adaptor Wrench

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

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

Clevis Wrench

<table>
<thead>
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<th>Code No.</th>
<th>Size</th>
<th>Package</th>
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<tbody>
<tr>
<td>PL8210010</td>
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<td>1 set</td>
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</table>

Outrunner 28/30

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM0283010</td>
<td></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)

- 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.
Ducted Fan

Warbirds

Scale

Sports

Trainer

Boat

Pattern

Funfly

Electric

Glider

Accessories

Covering
(Lightex / Toughlon)

The World Models Manufacturing Co., Ltd.
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