F4U CORSAIR

(A077S)

0.46 cu. in. displacement 2-stroke
0.70-0.81 cu. in. displacement 4-stroke
Requires: 5-channel radio w/ 5 standard servos and 1 low profile retract servo.

Specifications

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Wing Span</td>
<td>56 in / 1420 mm</td>
</tr>
<tr>
<td>Wing Area</td>
<td>574 sq in / 37sq dm</td>
</tr>
<tr>
<td>Flying Weight</td>
<td>6.2 lbs / 2830 g</td>
</tr>
<tr>
<td>Fuselage Length</td>
<td>47 in / 1190 mm</td>
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</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.
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.)**
- **Must be purchased separately!**
- **Ensure smooth non-binding movement while assembling.**
- **Cut off shaded portion.**
- **Pierce the shaded portion covering film.**
- **Pay close attention here!**
- **Warning! Do not overlook this symbol!**
- **Drill holes with the specified diameter (here: 3mm).**
- **Peel off shaded portion covering film.**
**Parts List**

1. **MAIN WING** -- 1 pair
   - SCREW PB2x16mm -- 4 pcs
   - SCREW PWA2x8mm -- 8 pcs
   - HORN PL4113101 -- 2 sets
   - PUSHROD Ø1.8x115mm w/ Threads (For Aileron Servos) -- 2 pcs
   - CLEVIS PL4112103 -- 2 pcs
   - FUEL TUBE Ø6x5mm -- 4 pcs

2. **SERVO MOUNTING PANEL (PL5310000)** -- 1 pair
   - SCREW PB2x16mm -- 4 pcs
   - SCREW PWA2x8mm -- 8 pcs
   - HORN PL4113101 -- 2 sets
   - PUSHROD Ø1.8x115mm w/ Threads (For Aileron Servos) -- 2 pcs
   - CLEVIS PL4112103 -- 2 pcs
   - FUEL TUBE Ø6x5mm -- 4 pcs

3. **WING JOINER 8x24.3x153mm (wood)** -- 1 pc.

4. **LINKAGE CONNECTOR 2.1mm** -- 2 sets
   - COVERING FILM 32x42mm -- 2 pcs
   - PLYWOOD 3x32x62mm -- 1 pc.

5. **FUSELAGE -- 1 pc.**
   - STABILIZER & ELEVATOR -- 1 set

6. **TAIL LANDING GEAR PL7100001** -- 1 set
   - SCREW PA3x12mm -- 2 pcs
   - COLLAR 2.1mm w/ set screw -- 1 set
   - TAIL WHEEL Ø25mm -- 1 pc.

7. **RUDDER -- 1 pc.**

8. **SCREW PB2x14mm** -- 4 pcs
   - PUSHROD Ø1.8x695mm w/ Threads (For Elevator Servo) -- 2 pcs
   - HORN PL4113101 -- 2 sets
   - CLEVIS PL4112103 -- 2 pcs
   - FUEL TUBE Ø6x5mm -- 2 pcs

9. **SCREW PB2x16mm** -- 2 pcs
   - PUSHROD Ø1.8x665mm w/ Threads (For Rudder Servo) -- 1 pc.
   - HORN PL4113101 -- 1 set
   - CLEVIS PL4112103 -- 1 pc.
   - FUEL TUBE Ø6x5mm -- 1 pc.

10. **SOCKET HEAD SCREW M4x25mm** -- 4 pcs
    - WASHER d4x9mm -- 4 pcs
    - ENGINE MOUNT PL5111050 -- 1 set

11. **FUEL TANK 320cc PL1111320** -- 1 set
    - CABLE TIE 1.5x5x400mm -- 1 pc.
    - DOUBLE-SIDE TAPE 40x100mm -- 1 pc.

12. **LINKAGE CONNECTOR 2.1mm** -- 1 set

13. **THROTTLE PUSHWIRE Ø1.2x310mm** -- 1 pc.
    - PLASTIC TUBE d2xd3x210mm -- 1 pc.
    - SOCKET HEAD SCREW M3.5x30mm -- 4 pcs
    - WASHER d3.5xD8mm -- 8 pcs
    - M3.5 NUT -- 8 pcs

14. **COWLING -- 1 pc.**
    - TRANSPARENT 3D TEMPLATE -- 1 pc.
    - SCREW PWA2.6x12mm -- 4 pcs
    - SILICON GROMMET d1.5xD6mm (PL1265035) -- 4 pcs
    - SPINNER NUT HW2340002 -- 1 set

15. **CANOPY -- 1 pc.**
    - DOUBLE SIDED TAPE 500mm -- 1 pc.
    - SCREW PWA2.3x8mm -- 4 pcs
    - SILICON GROMMET d1.5xD6mm -- 4 pcs
    - PILOT PC001065B -- 1 pc.

16. **FUEL TUBE Ø6x5mm** -- 2 pcs
    - STRAPER PL4112102 -- 2 pcs
    - SPONGE 10x80x200mm -- 2 pcs
    - PUSHROD Ø1.8x75mm (For Elevator Servo) -- 1 pc.
    - PUSHROD CONNECTOR (PL4410010) -- 1 set

17. **SCREW HM4x25mm** -- 2 pcs
    - WASHER d4.2xD14.5mm -- 2 pcs
    - AIR SCOOP -- 1 pc.

18. **DECALS A077SDEC** -- 1 set
    - COVERING:-- TOUGHON STL 350 CORSAIR BLUE

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A077SPO29861312 P.2
Please dry fit wing joiner into left and right wing to make sure they fit with the proper dihedral angle, mark the wing joiner if necessary. Apply epoxy glue to both sides of all surfaces in contact. Use a stick to apply the glue to inner side of wing joiner sleeve, and apply the glue to wing joiner before putting them together. Wing joiner not glued properly will lead to wing failure and plane crash.
4 Retract Servo

Select the servo horn that will give 26mm travel when rotates through 180°.

Please refer to attached sheet for linkage connector installation.

5 Stabilizer & Elevator

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

Completed
6 Tail Landing Gear

- PA3x12mm Screw x 2
- 2.1mm Collar x 1
- 3mm Set Screw x 1

Completed

7 Rudder

- C = C'

Completed
8 Elevator Pushrod

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

- PB2x14mm Screw x 4

- Bottom View

9 Rudder Pushrod

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

- PB2x16mm Screw x 2

- Bottom View

10 Engine Mount

- Apply thread locker to screws

- Blind nuts are off-centered to keep the spinner at the fuselage axis.

- M4x25mm Socket Head Screw x 4
- d4xD9mm Washer x 4

- Top

- Engine Mount PL5111050

Fuel Tube Ø6x5mm
Horn

Fuel Tube Ø6x5mm
Pushrod 1.8x665mm
PB2x16mm

Clevis

Socket Head Screw M4x25mm
d4xD9mm Washer

Engine Mount PL5111050
11 Fuel Tank

- 320cc Fuel Tank
- Double-sided Tape 40x100mm
- Linkage Connector
- 3x3mm Set Screw
- 2mm Washer
- M2 Nut
- 1.5mm Washer

Please refer to the attached sheet for linkage connector installation.

12 Servo Set

- 3x3mm Set Screw: 1
- Linkage Connector: 1
- M2 Nut: 1
- 2mm Washer: 2
- Throttle Pushwire
- 2mm Washer
- M2 Nut
- Throttle Servo

N.I. Please refer to the attached sheet for linkage connector installation.
13 Engine

- **M3.5x30mm Socket Head Screw**: 4
- **d3.5xD8mm Washer**: 8
- **M3.5 Nut**: 8

- Installed Engine Position 115mm 4.53in
- d3.5xD8 Washer
- M3.5x30mm Socket Head Screw

14 Cowling

- **PWA2.6x12mm Screw**: 4
- **d1.5xD6mm Silicon Grommet**: 4

- Fuel Filler P.L8110030
- Cowling
- Spinner Nut HW2340002

- Please refer to the attached sheet for usage of the transparent 3D template.
- First insert the grommet to the cowling then apply screw.

- Plastic Tube d2x3x210mm
- Throttle Pushwire Ø1.2x310mm
- M3.5 Nut

Cowling

- **d1.5xD6mm Grommet**: 4
- **PWA2.6x12mm**: 4

- Spinner Nut HW2340002

- Fuel Filler P.L8110030

- 1mm
15 Canopy

- First insert the grommet to the canopy then apply screw.

16 Radio Equipment

- Install and arrange the servo as shown in the diagram.
17 Main Wing

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

M4x25mm Screw

W4.4x14.5mm Washer

Wing Setting 18

Main Wing 17

M4x25mm

W4.4x14.5mm

Bottom View

Air Scoop

18 Wing Setting

Adjust the wing and fuselage configuration as shown in the diagrams.
19 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:
  - 18mm
  - 18mm

- Rudder:
  - 33mm
  - 33mm

- Aileron:
  - 5mm
  - 5mm

20 C.G.

- The ideal C.G. position is 85mm (3.35in.) 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.
  - If you are converting this model to electric, please move the C.G. forward 10% of current C.G. distance from leading edge to compensate for weight of fuel.

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

http://www.theworldmodels.com/para/instruction/instructionManuals.hph
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 is specially designed to be powered by 2C 0.46 or 4C 0.70 - 0.81 engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause severe 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. 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.

**Warning!**

**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.
Usage of the transparent 3D template

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

1. Simply cut the transparent 3D template to fit your engine and exhaust pipe.
2. Then slide onto the actual cowling.
3. Use as template to mark the openings required for final cutting.
**Optional Parts**

(ACCESSORIES)

### 180mm Extension

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW0011800</td>
<td>180mm</td>
<td>1 set</td>
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### 180mm Y-Cord

<table>
<thead>
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<th>Code No.</th>
<th>Size</th>
<th>Package</th>
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</thead>
<tbody>
<tr>
<td>KW0021800</td>
<td>180mm</td>
<td>1 pc</td>
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### Fuel Filler

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
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<tbody>
<tr>
<td>PL8110030</td>
<td>15 x 22 x 49mm</td>
<td>1 x 1 pc</td>
</tr>
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</table>

### Clevis Wrench

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

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PI8210010</td>
<td>40.6 x 20 x 37mm</td>
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</table>

### Charge Receptacles

<table>
<thead>
<tr>
<th>Code No.</th>
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<tbody>
<tr>
<td>KP0041300</td>
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### Field Stand

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
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</thead>
<tbody>
<tr>
<td>MS9111430</td>
<td>600 x 240 x 310mm</td>
<td>1 pc</td>
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</tbody>
</table>

### Standard Servo

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
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</thead>
<tbody>
<tr>
<td>SV4031</td>
<td>40.6 x 20 x 37mm</td>
<td>1 set</td>
</tr>
</tbody>
</table>

- **Speed:** 0.17 sec / 60° @ 4.8V  
  0.14 sec / 60° @ 6.0V  
- **Torque:** 3.2kg.cm / 44.8 oz - in @ 4.8V  
  4.1kg.cm / 57.4 oz - in @ 6.0V  
- **Size:** 40.6 x 20 x 37mm /  
  1.60 x 0.79 x 1.46 in  
- **Weight:** 39.4 g / 1.39 oz
Ducted Fan    Pattern

Warbirds    Funfly

Scale    Electric

Sports    Glider

Trainer    Boat

Accessories

Covering
(Lightex / Toughlon)