

# Installation Manual

## Saito FG-84 / FG-90 with Keleo exhaust ring Hangar 9 F4U-1D Corsair 60cc ARF

Tools required:

Ruler

Square

Pencil

Razor saw

Sanding pad

Straightedge / ruler

Medium and thick CA glue

30 minute two-part Epoxy

Acetone to thin the epoxy (2 to 1 ratio) 2 part epoxy / 1 part acetone

Isopropyl alcohol

Small brush

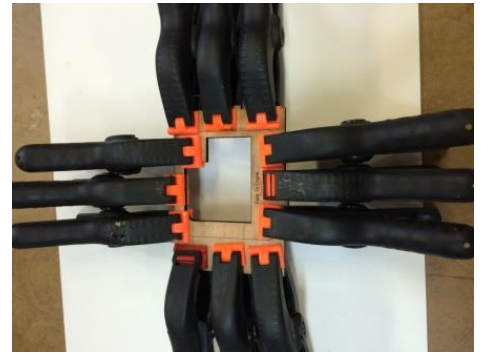
Paper towel

Cloth rag

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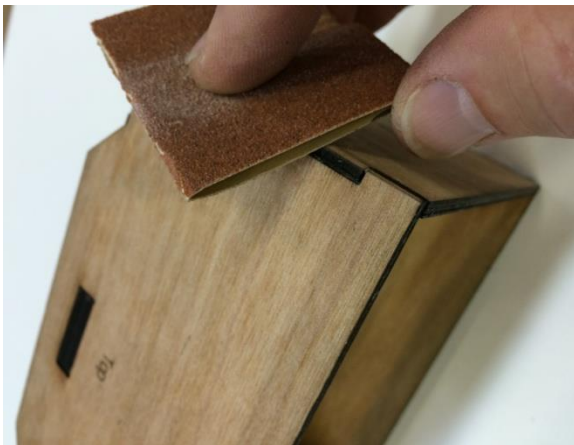


### Step 1

Remove the parts from package and clean edges with rubbing alcohol and cloth rag. Let dry completely.

Glue the two firewall pieces (with tabs) together with thinned epoxy.

Once cured, assemble the engine box on a flat surface making sure the box is square and not warped. Glue with medium and thick CA glue. Make sure the glue joints are good.



### Step 2

Lightly sand the corners of the engine box. This will allow it to slide easily into the fuselage.



### Step 3

Mark a cut line  $\frac{3}{4}$  inch back from the front of the firewall box.

Cut off front of the firewall.



### Step 4

Remove the two inner side tabs, lightly sand the area.





### Step 5

Make sure the assembled engine box slides into the fuselage.

If the engine box does not slide into the fuselage easily, **lightly sand the corners.**

The **sides** of the engine box may also need to be lightly sanded.



### Step 6

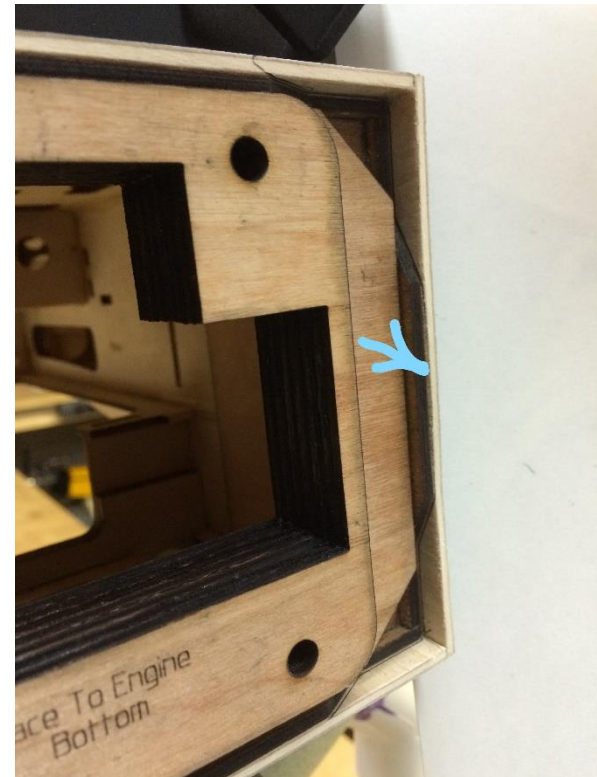
Slide the engine box into the fuselage.

Line up the engine box front four sides with the fuselage.

**This needs to be correct or the engine alignment will be off.**

**Note:** The engine box is approximately 1/8 inch recessed from the front four sides.

Do not use any glue yet. . .





### Step 7

Transfer the engine box outlines at the four corners to the fuselage and remove the area from the fuselage (making room for the exhaust ring).

Do not use any glue yet. . .



### Step 8

Attach the engine **without the exhaust ring** to the engine box.

Note: The engine is installed **with the mount spacers**.

Do not use any glue yet. . .



### Step 9

Fit and secure the cowling to the fuselage.

Attach the propeller or a straightedge to the engine.

Check for proper clearance between the propeller and front of the cowling.

**Make adjustments needed by sliding the engine box assembly.**

Make sure the prop has necessary clearance.

### Step 10

Remove the propeller and cowling without disturbing the engine box location.

Make sure the engine box lines up equally on the four sides of the fuselage shown in step 6.

**Mark the edge of the engine box with a pencil on the inside of the fuselage.**

The engine box now can be slide out of the fuselage and the engine removed from the box.



### Step 11

Then mix enough epoxy and apply a thin coating of epoxy to the engine box and inside the fuselage.



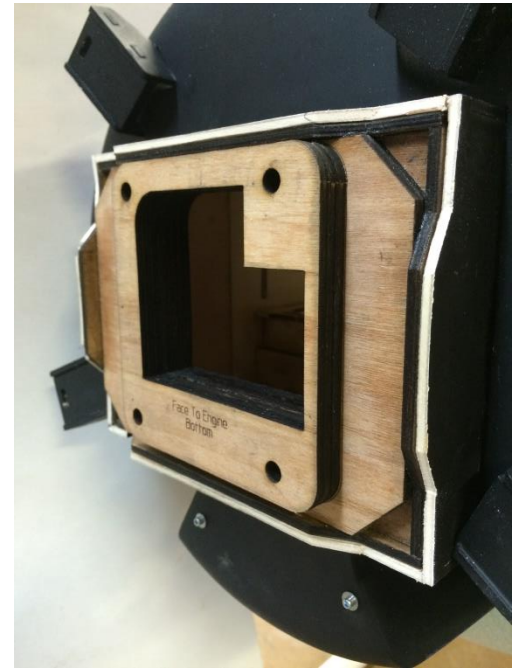
Step 12

Slide the engine box back into the fuselage to the marks made earlier.

**Note: Don't glue the engine box in upside down.. ☹**

**Make sure to realign engine box on the pencil marks and the engine box lines up equally on the four sides shown in step 6.**

Remove any excess epoxy with paper towel and isopropyl alcohol.



Step 13

**Once cured,** attach the engine with the exhaust ring to the engine box assembly and check to make sure the exhaust ring fits.



Step 14

May need to remove some of the firewall so the fuel line doesn't rub.

Enjoy ☺

Ver.2