

Spitfire Mk XIV Cockpit Upgrade

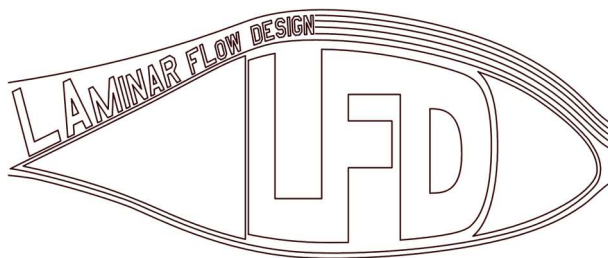
1/32 Upgrade Set for Spitfire MkXIV Cockpit

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- Working with 3D printed parts:
 - Removal of the supports: Parts are printed into an enclosed cage that protects them in the different stages of production, transport and storage. Please cut the 4 pillars at their base on the corners and clean up the remaining mesh to access the parts. Then you can remove the parts from their support, starting by the most accessible on the sides and working your way to the center. Work support by support, using razor saw or new scalpel blade.
Avoid snapping the part off its supports as it could damage the part in the process.
 - Outer fuselage surfaces (ie: Sides of the cowling) might need Surfacer and sanding work for optimal result. Please try to avoid filling small rivets in the operation.
 - Don't "force fit" parts into assembly. Cured resin is very hard, but will break under pressure.
 - For accurate fitting, prefer trimming and sanding the plastic parts rather than resin. Plastic is easier to form and shape. But ultimately the choice is up to the builder.
 - Washing agent residues can remain on some surfaces, fine grid sand to get rid of them.

- Special note for this reference:
 - 3D printed parts are created with resin that reacts (harden) to UV light, there are multiple steps, but in short, once the part comes out of the printer, it is not yet in its final state, it requires additional exposure to UV (depends on the thickness, but usually 30 min) to give it its strength. If not exposed, it remains gummy and flexible.
Due to the very tiny parts comprised in the set, and in order to decrease the probability of breaking during the support structure removal, the cage has been exposed to Post UV curing less than required. This will allow a little flexibility during removal.
Once the parts have been freed from their supports, its is recommended to expose them to UV light for complete curing. One day in the open sunlight is more than enough, and its entirely free!
 - Feeding the carpet monster with random parts in your spare box is recommended before removing any parts from its support. You don't want it hungry with the tiny levers.
For the tiniest parts, multiple are provided just in case.
 - Careful study of the parts, and how they are supported before removing will help avoid breakage. In general, avoid flexing and tension in the parts during removal.
 - Magnification glasses or aid strongly advised while working on or painting parts.



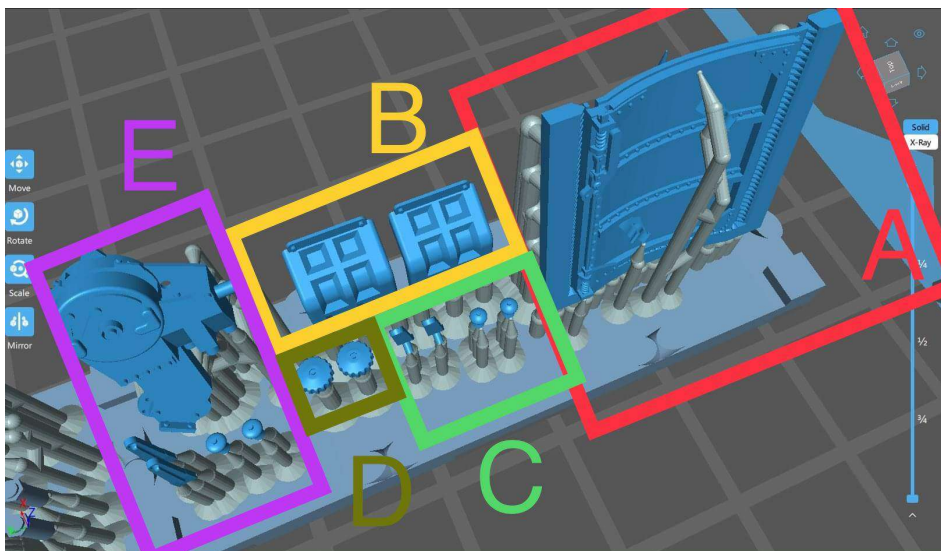
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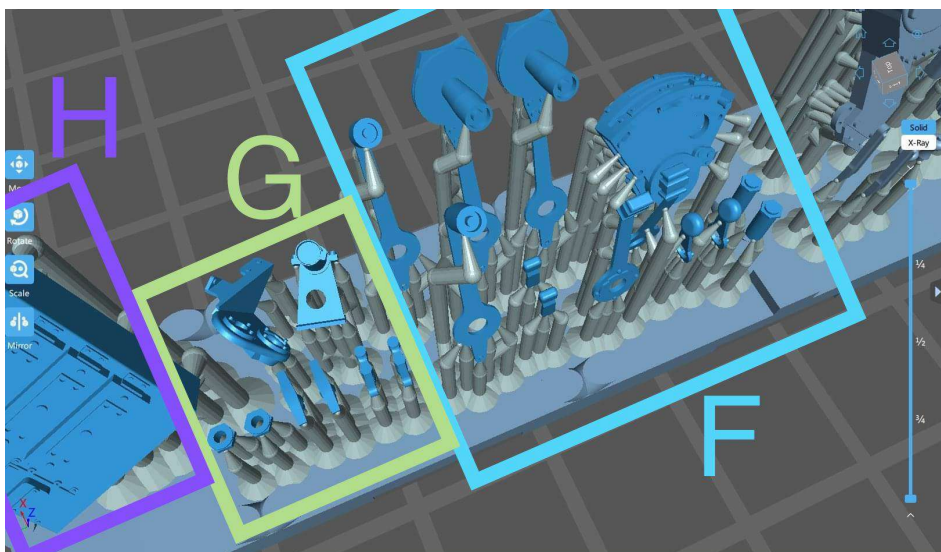
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- Parts identification:



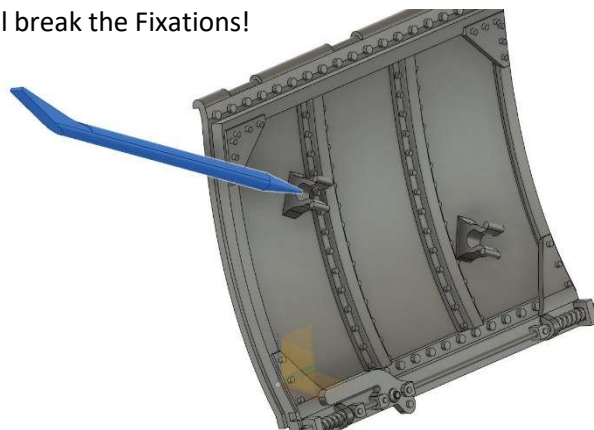
- A: Access Door & Crow bar
- B: Waffle foot guard
- C: Canopy Lever (Low Back)
- D: Rudder Trim
- E: Landing Gear Quadrant

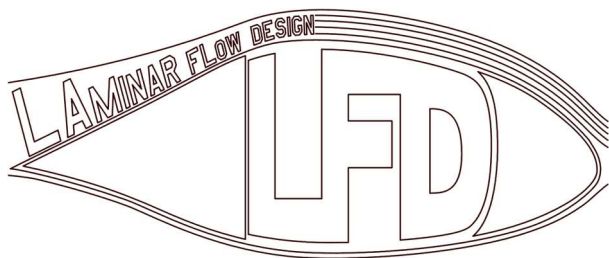


- F: Throttle & Controls
- G: Priming Pump
- H: LH Switchbox

- Parts assembly & Painting:

- A – Access door:
 - Crow Bar: Steel, Yellow, Red .. (hey, its your model after all !)
 - Door: Int Green inside, Fuselage: color outside.
 - Opening handle: Yellow
 - Slide Crow bar in, Don't "push clip" it, it will break the Fixations!





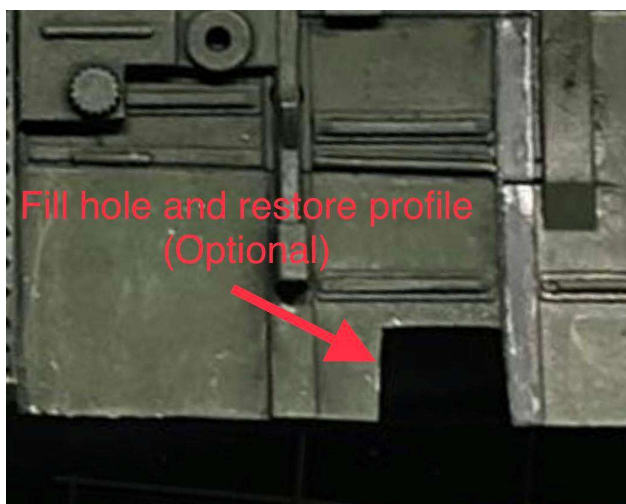
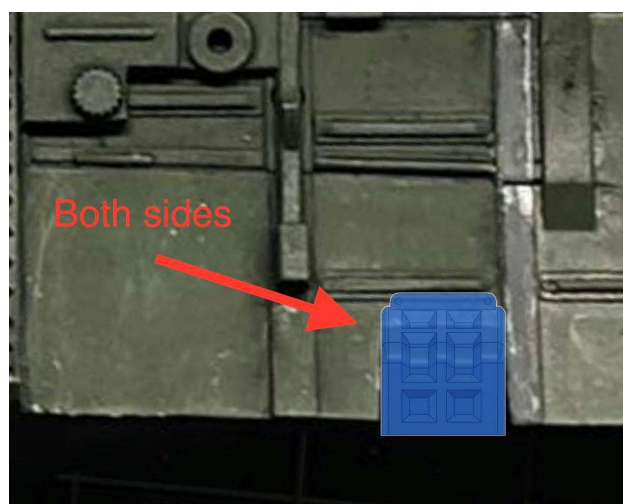
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- B – Waffle Foot Guards:
 - Paint Interior Green
 - Remove molded flat footguards.
 - Insert plastic plate to restore the sidewall profile (optional)
 - Glue the New parts in place (Side independent)

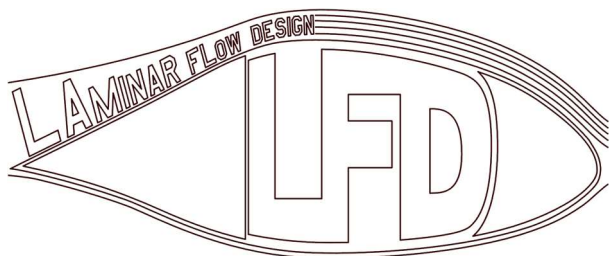


- C – Canopy opening handle:
 - Lever: Int Green, Handle Black.
 - Remove molded in lever. Clean the support part.
 - Make a 0.3mm hole in the support for the lever axle.
 - Drill from inside using the existing hole for a perfect centering.



- D – Rudder Trim:
 - Paint Rubber Black.
 - Drill a 0.5mm in the center of existing trim.
 - Remove the remains of the trim.
 - Clean the surface.
 - Replace by new part.





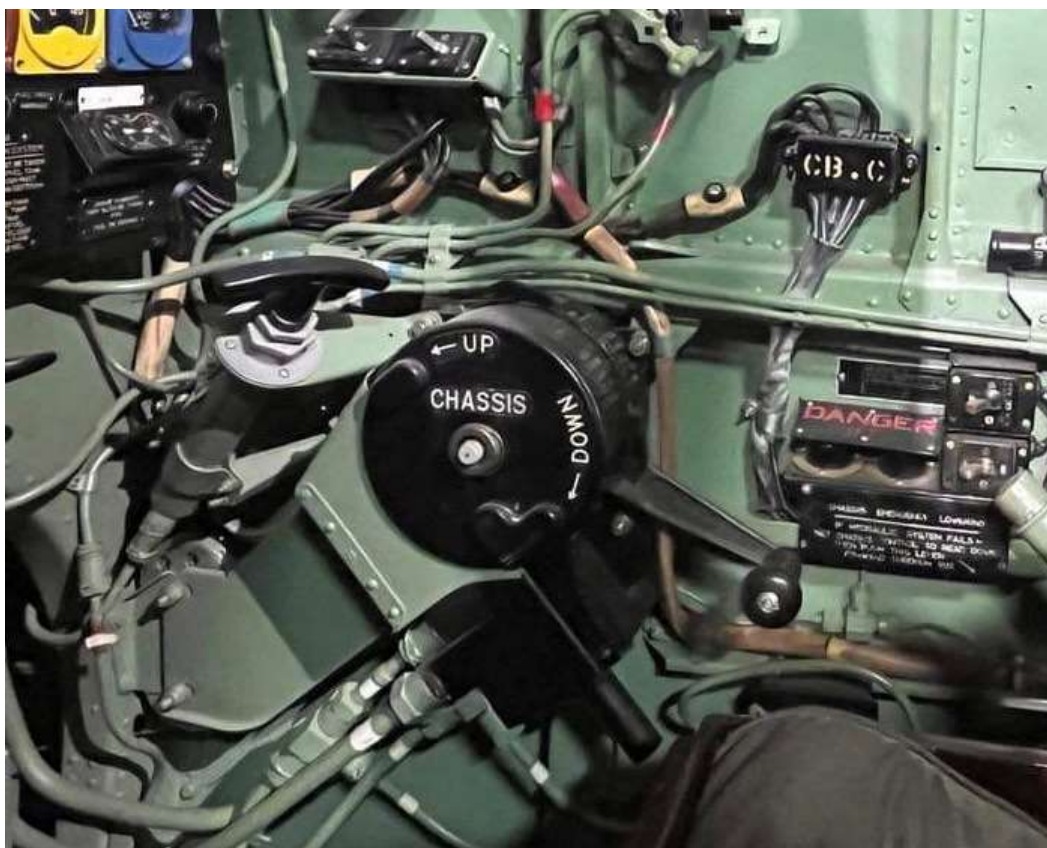
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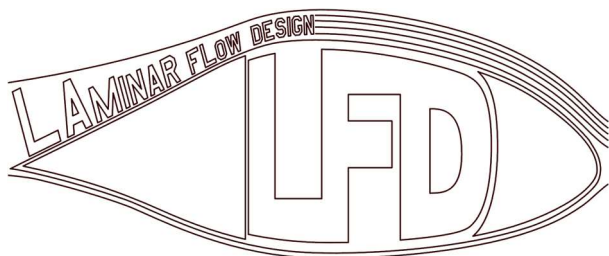
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- E – Landing Gear Quadrant:
 - Quadrant, Handle: Black, Front Cover, Lever: Int Green, Front Wheels: Metal,
 - Replace kit part by new, use the existing locating hole.
 - Add 4 lines going from the bottom connexions to front of the instrument panel Frame. (optional, Check references)





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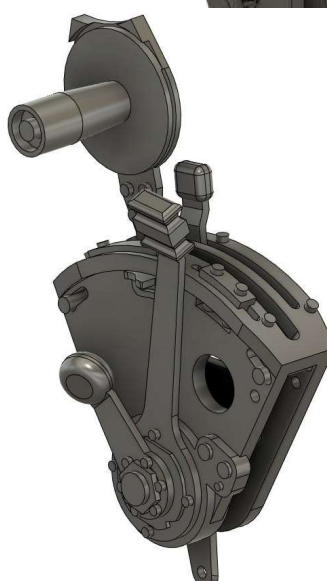
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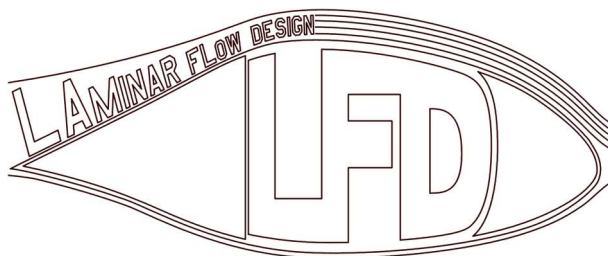
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○ F – Throttle Control

- Body, levers: Metallic Black. Handles: Rubber black, Gyro Handle Wheel: Alu,
- The throttle handfle is dependant of the gunsight:
 - Reflector (early) sight: Small angled lever
 - Gysroscopic (late) sight: Big horizontal lever
- Slide in the throttle lever, then place the propeller control and damper lever,
- Align them and insert the axle. Glue it from behind.
- Add the mixture lever at the back.





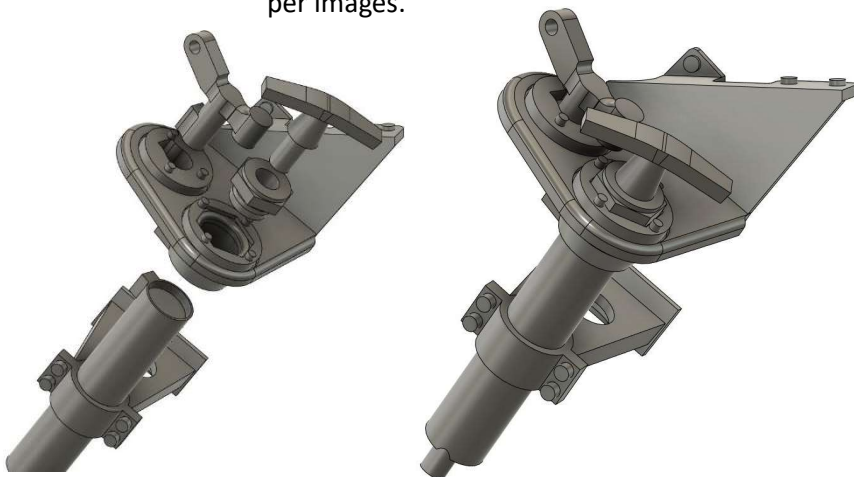
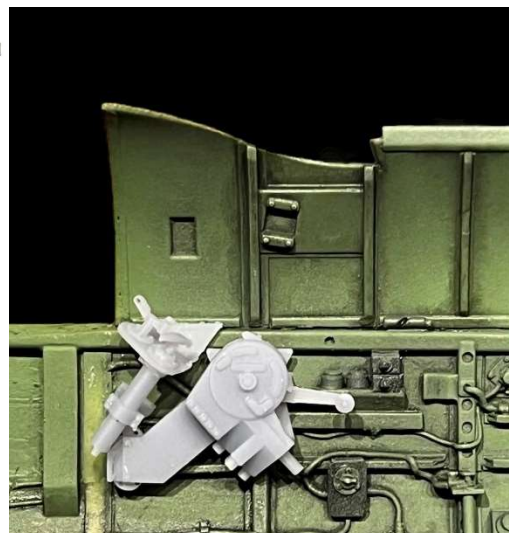
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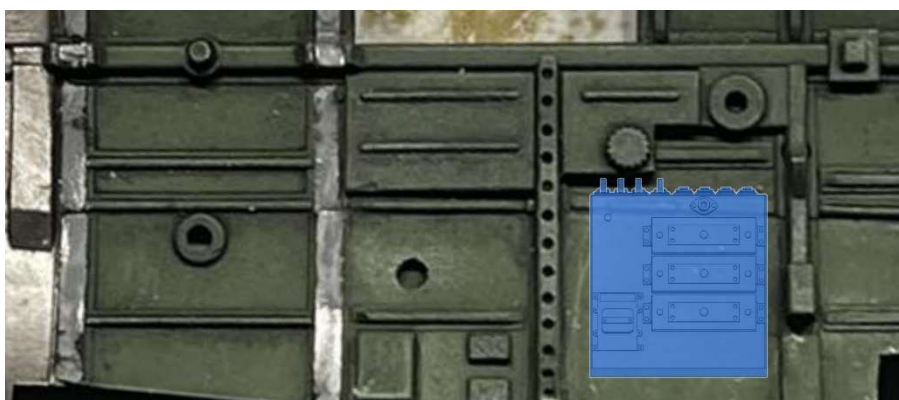
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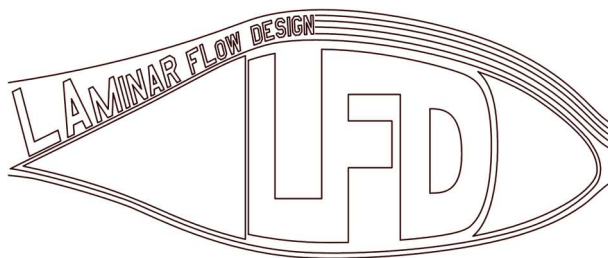


- G – Priming Pump
 - Bracket, pump body: Int Green. Top Pump Bolt: Copper, Pump handle: Yellow/Int green? Selector: Red.
 -
 - Assemble Pump Body to bracket (mind locating slot) Add top bolt, Pump handle, Selector per images.



- H – LH switch box
 - Switch box: Black, switches: Alu, Buttons: Rubber
 - Remove Kit sidewall details per image, Restore the surface. Keep the upper rib for positioning (check picture)
 - Install box





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- General Views of the cockpit for reference and colors:

