

#### Instructions for the following aircraft types:

BOEING 737-300 737-400 737-500

Paper-based scale model design system Copyright © 2001-2019 — James Messner / Papier Avion and Airigami. Airline designs and logos are reproduced for Fair Use educational and informational purposes. All logos and designs remain the property of their respective copyright and trademark owners. Visit us at **www.papieravion.org**.



# **ACTIONS LEGEND**



#### FOLD

Make a sharp fold along the dotted lines of the object as indicated. Be careful to ensure that you are folding in the correct direction — some folds may be inverse. After folding, pass a ruler or other straight object over the fold to increase the crispness of the fold.



## CURVE

Bend the object to create a cylindrical effect. Ensure that you are bending the object in the correct direction, as there are no guide lines provided for curved shapes. Important! Do not fold the object — folding the object will ruin the appearance of the object.



### CUT

Cut along the lines as indicated. For most shapes, the cutting line is faintly represented so as not to spoil the appearance of the object with unnecessary lines — the cutting line will generally be the border between the object shape and the surrounding neutral colour.



### TAPE

For some joins, it is preferable (though not required) to use tape. We recommend using Scotch tape suitable for archiving, to avoid discolouration. Use the tape sparingly, as too much tape may spoil the appearance of the object.



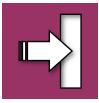
### GLUE

For many joins, we recommend using glue. Apply the glue carefully to the "hidden" side of the join (i.e., generally the nonprinted area). Press down the other part of the join on the glued section until bonded. We recommend using glue sticks, as liquid-based glue can spoil the paper of card by causing it to become soggy.



### SET ASIDE

Once an object has been completed, it may be set aside until other objects have also been completed. Keep the completed object in a safe place until it is time to arrange it further.



#### INSERT

Insert the object into the opening in the other corresponding object as shown. Once inserted, depending on the object, either join the objects together on the interior, or alternatively close and seal the larger object.

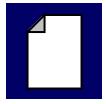


#### VERSIONS

Papier Avion, or 9G, represents an evolution of the Airigami design. Though some of these instructions may apply to earlier generation models from 2001-2005, there are some significant differences. Please note that we do not provide support or instructions for our earlier generation designs.

airigar

# GETTING STARTED



#### PRINTING

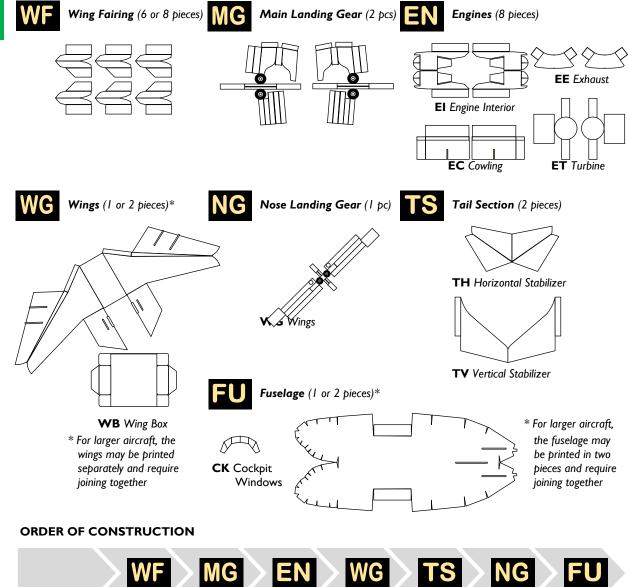
The first step in building a paper model is, of course, the putting the design to paper. Some things to bear in mind:

- Papier Avion / Airigami models are designed to fit A4 paper. Printing at 100% scale will produce models that are
  approximately 1:200 scale. However, you can use the scaling function in Adobe Acrobat to either increase or decrease
  the scale. For example, if you adjusted Adobe Acrobat print settings to 50%, you would print models at 1:400 scale;
  similarly, if you printed on A3 size paper and scale to 200%, you would print models at 1:100 scale.
- We strongly recommend that Papier Avion / Aigirami models be printed on heavier stock. We recommend glossy 80lbs paper if the paper is too light (like normal office paper) the models will tend to 'sag'; if the paper is too heavy, it may be too difficult to fold or manipulate in the building process. (Glossy paper also makes the models look nicer.)



#### **KNOW-YOUR-PARTS**

We try to make Papier Avion / Airigami instructions intuitive, using commonly used terms for each part.

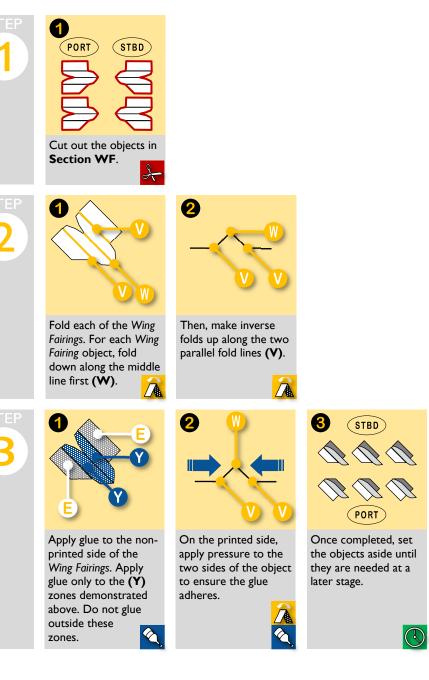


airigam



# **VF** WING FAIRINGS







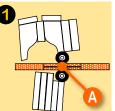
# **MAIN LANDING GEAR**





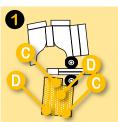
Section MG.



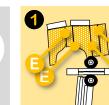


For each Main Landing Gear, curve the (A) section.

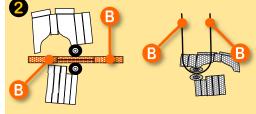




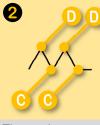
Fold the smaller highlighted component of the Main Landing Gear piece. Fold along the **(C)** lines.



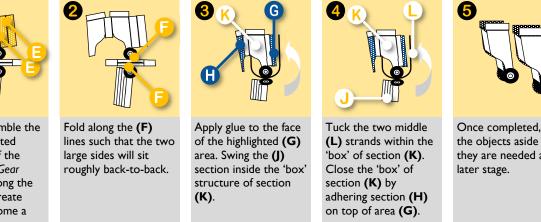
Fold and assemble the larger highlighted component of the Main Landing Gear piece. Fold along the (E) lines to create what will become a 'box'-like structure.



Curve section (A) so the two (B) strands are parallel, back-to-back.



Then, make inverse folds along (D) lines. The section should then resemble a concertina or accordion fold.

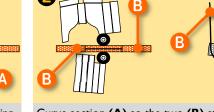


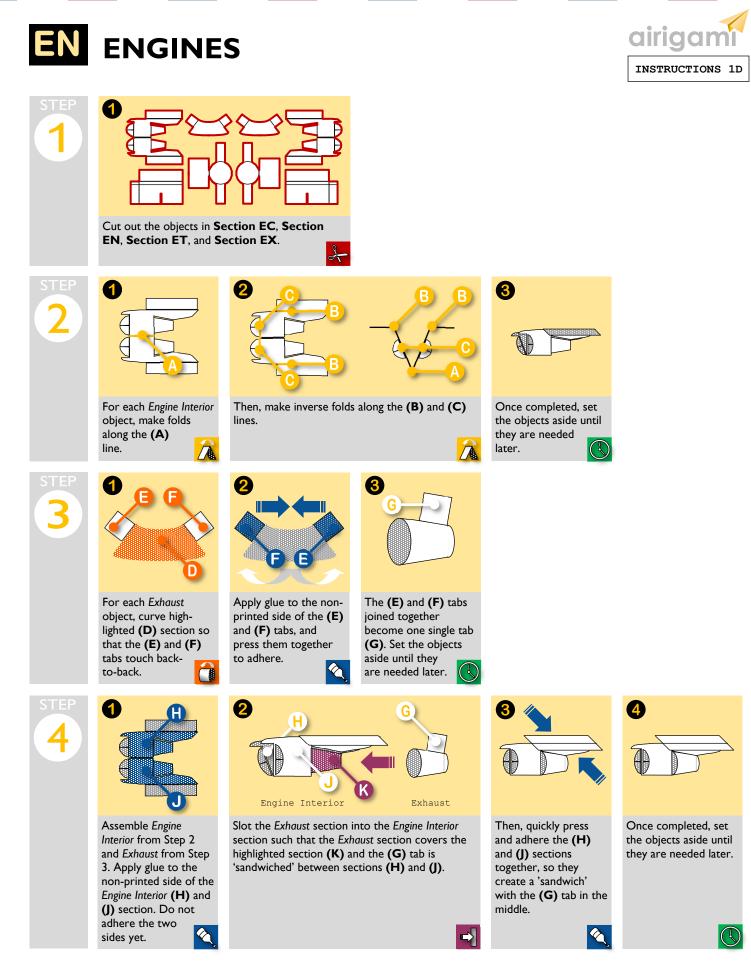
 $\Diamond$ 



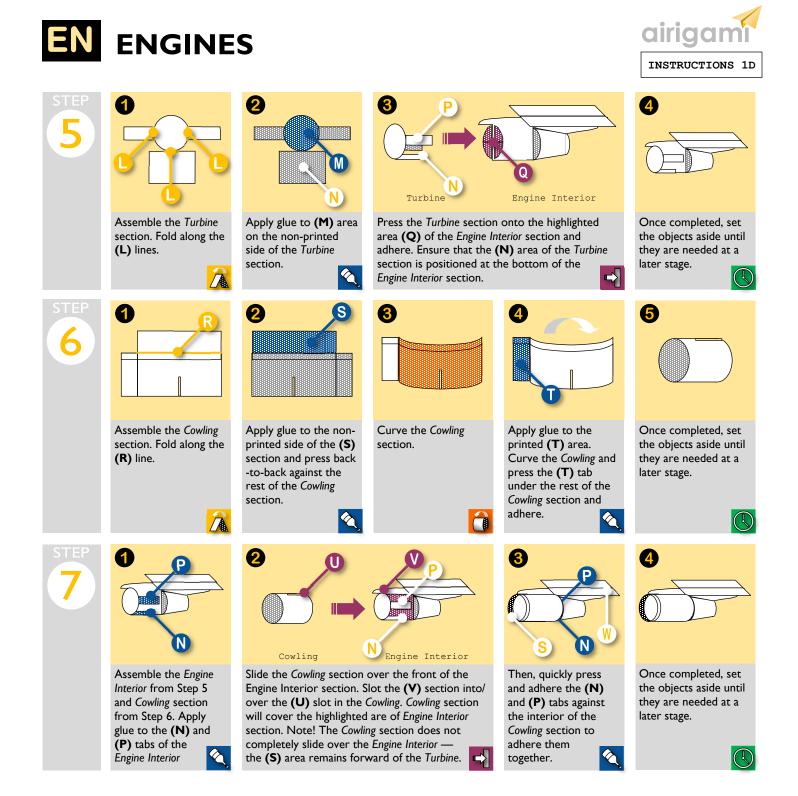
INSTRUCTIONS 1D

Once completed, set the objects aside until they are needed at a





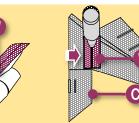
Paper-based scale model design system Copyright © 2001-2019 — James Messner / Papier Avion and Airigami



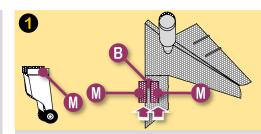








Insert completed Engines onto the undersides of the wings in line with slot (C). Note that the precise placement and number of the slots will vary by aircraft type. Insert port-side Engine (W) tabs into the port-side wing in line with the (C) slot.

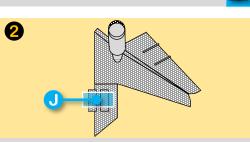


Insert the completed Main Landing Gear into the appropriate slots. Insert port-side Main Landing Gear (M) tabs into the port-side wing into the (B) slots. Fold the (M) tabs downward in opposing directions.

Apply a small piece of tape (H) over the interior

2

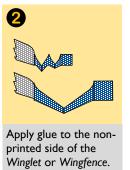
tabs of the Engine (on the interior of the wing). Repeat the same steps for the starboard-side wing.

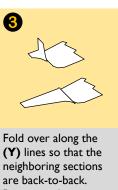


Apply small pieces of tape (J) over the interior tabs of the Main Landing Gear (on the interior of the wing). Repeat the same steps for the starboard-side wing.



follows: For each Winglet or Wing Fence object, fold down along the (Y) lines. Then, make inverse folds up along the (X) lines.





P

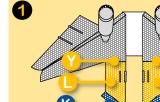
5

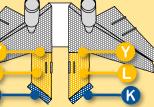
Press together to adhere.











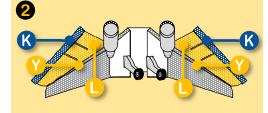
Apply glue to the printed side of the **(K)** tabs and fold them so that they are back-to-back. Fold along the **(Y)** lines, folding over the **(L)** sections of each wing such that they sit on top of the **(K)** tabs. Press to adhere.





Winglet

If there are *Winglets*, assemble as follows: For each *Winglet*, fold along the **(Z)** line, such that the winglet is upright at a 45-degree angle outwards from the wing.



Apply glue to the printed side of the (K) tabs and fold them so that they are back-to-back. Fold along the (Y) lines, folding over the (L)sections of each wing such that they sit on top of the (K) tabs. Press to adhere.



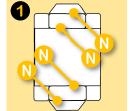
Once completed, set the objects aside until they are needed at a later stage.

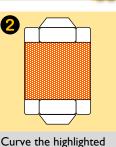


Blended Winglet Blended Winglet

If there are Blended Winglets, assemble as follows: For each Blended Winglet, curve Winglet upwards such that the winglet is upright at a 45degree angle outwards from the wing.







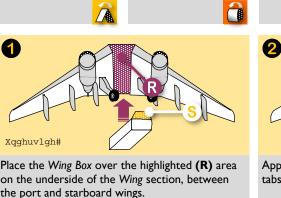
area (rather than

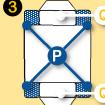
folding it).

Winglet

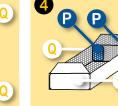
Assemble the Wing Box section. Fold along the **(N)** lines.



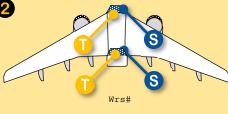




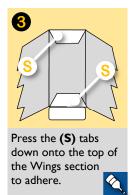
Apply glue to (P) tabs.



Press the (P) tabs onto the back-side of the corresponding (Q) sections and adhere.



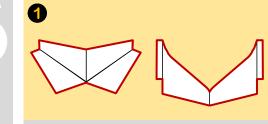
Apply glue to the non-printed side of the **(S)** tabs. Fold along the **(T)** lines.





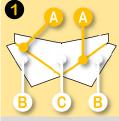




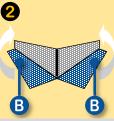


Cut out the objects in **Section TH** and **Section TV**.





Assemble the Horizontal Stabilizer. Make folds along the (A) lines.



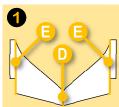
2-

Apply glue to the nonprinted side of the (**B**) sections of the *Hori*zontal Stabilizer. Press (**B**) sections back-toback with (**C**) section to adhere.

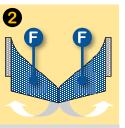


Once completed, set the object aside until they are needed at a later stage.





Assemble the *Tail*. Make folds along the (**D**) line. Then, make inverse folds along the (**E**) lines.



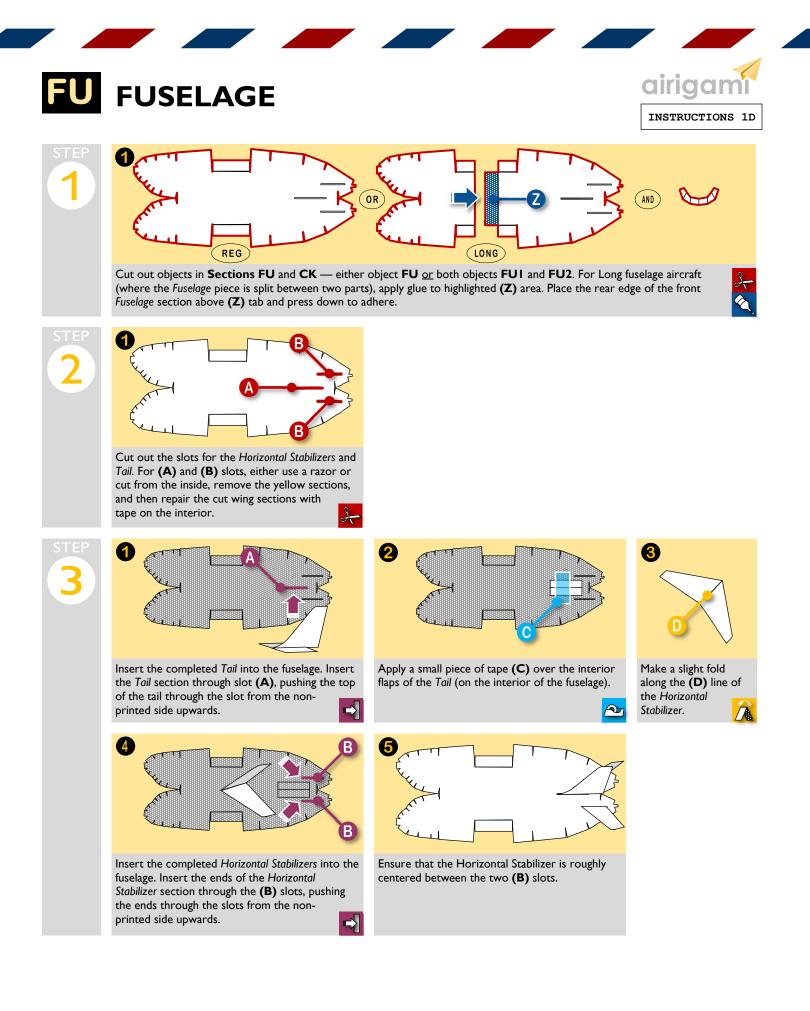
Apply glue to the highlighted **(F)** areas of the non-printed side of the *Tail*. Press the two main sections of the *Tail* back-to-back to adhere.



Once completed, set the object aside until they are needed at a later stage.

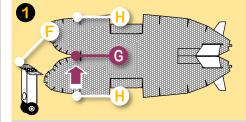




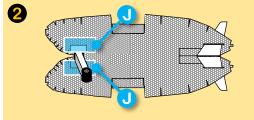








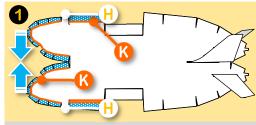
Attach the Nose Landing Gear to the fuselage. Identify the point that is precisely the middle point on the non-printed side of the fuselage between the two **(H)** tabs. Note that this point is not printed, however a line may be ruled between the two points with a pencil to help identify it.



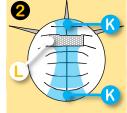
Place the Nose Landing Gear **(F)** tabs on the middle point identified in above. Apply small pieces of tape **(J)** over the **(F)** tabs of the Nose Landing Gear to adhere to the interior of the fuselage.





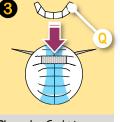


Curve the tabs highlighted at the front of the *Fuselage* section along the **(K)** lines. Do <u>not</u> make folds of these tabs, otherwise the aircraft will appear 'boxy'. Place small pieces of tape on the inside <u>or</u> outside of the highlighted tabs, and pull the corresponding tabs together and adhere. Do <u>not</u> adhere the **(H)** tabs.

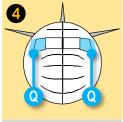


Line up each corresponding tab and adhere. Though more challenging to place the tape inside, it gives a 'cleaner' appearance.

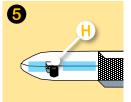
P



Place the *Cockpit* Windows over (or under) the gap between the **(L)** points on the *Fuselage*.



Place small pieces of tape (either on the outside or underside) to adhere the **(Q)** points of the *Cockpit Windows* to the *Fuselage*.

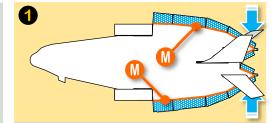


Pull the Nose Landing Gear through the gap of the **(H)** tabs.

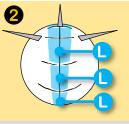




STEP 6



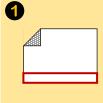
Curve the tabs highlighted at the rear of the *Fuselage* section along the **(M)** lines. Do <u>not</u> fold these tabs, otherwise the aircraft will appear 'boxy'. Place small pieces of tape **(L)** on the inside <u>or</u> outside of the highlighted tabs, and adhere the corresponding tabs together.

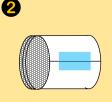


Line up and adhere each corresponding tab. Though more challenging to place the tape inside, it gives a 'cleaner' appearance.

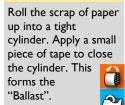


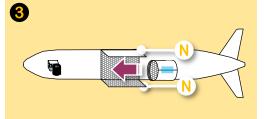






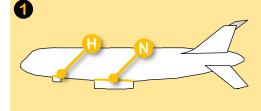
From the scraps of paper left over, cut a strip the length of the sheet, about an inch wide.



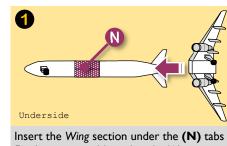


Place the *Ballast* into the *Fuselage* section, forward of the *Wings* section. The purpose of the *Ballast* is to balance aircraft that are otherwise tail-heavy.

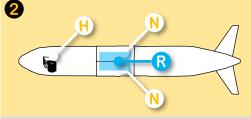




Fold along **(N)** lines on both sides of the *Fuselage* so the corresponding tabs meet. Make inverse folds along **(H)** lines on both side of the *Fuselage* such that the two tabs stand



Insert the Wing section under the **(N)** tabs of the *Fuselage* section. Note that the Wing section does <u>not</u> need to be adhered — it can be inserted and removed as needed to allow for more efficient storage.



Place a small piece of tape across the two **(R)** tabs to adhere.



... and your model is complete! Enjoy.



## www.papieravion.org

Paper-based scale model design system Copyright © 2001-2019 — James Messner / Papier Avion and Airigami Airline designs and logos are reproduced for Fair Use educational and informational purposes. All logos and designs remain the property of their respective copyright and trademark owners.