

## Wide, Hard, and Long Scale Model Series

### 1/72&1/48&1/32 scale Lockheed L-188A Electra kit

13 January, 2023 Edition

I suggest to take a look at the 3D printed kit tutorial, which is downloadable at the following link.

<http://one-man-model.main.jp/index.html>

<http://one-man-model.main.jp/instruction/3D%20printed%20kit%20tutorial.pdf>

In this instruction, I determine dowel species like the following table.

Dowels would be necessary to connect each parts.

dowel name	1/72			1/48			1/32		
	material	type	diameter	material	type	diameter	material	type	diameter
dw1	brass	rod	0.6	brass	rod	0.8	brass	rod	1.2
dw2A	brass	rod	0.8	brass	rod	1.2	bamboo	rod	1.8
dw2B	brass	rod	0.8	brass	rod	1.2	brass	rod	2
dw3A	SUS	wire	0.9	brass	wire	1.2	bamboo	rod	1.8
dw3B	SUS	wire	0.9	brass	wire	1.2	aluminum	wire	1.8
dw3C	SUS	wire	0.9	aluminum	wire	1.5	aluminum	wire	2.5
dw4	PS	rod	1	aluminum	wire	1.5	aluminum	wire	2.5
dw5	brass	rod	1.2	bamboo	rod	1.8	bamboo	rod	3
dw6	brass	wire	1.2	bamboo	rod	1.8	bamboo	rod	3
length L				1.5 times longer than 1/72			2.25 times longer than 1/72		

Example: 'dw3C L20' mean  $\Phi$ 0.9 SUS wire length 20mm in 1/72

$\Phi$ 1.5 aluminum wire length 30mm in 1/48

$\Phi$ 2.5 aluminum wire length 45mm in 1/32

Designed by Toshihiko Shimizu

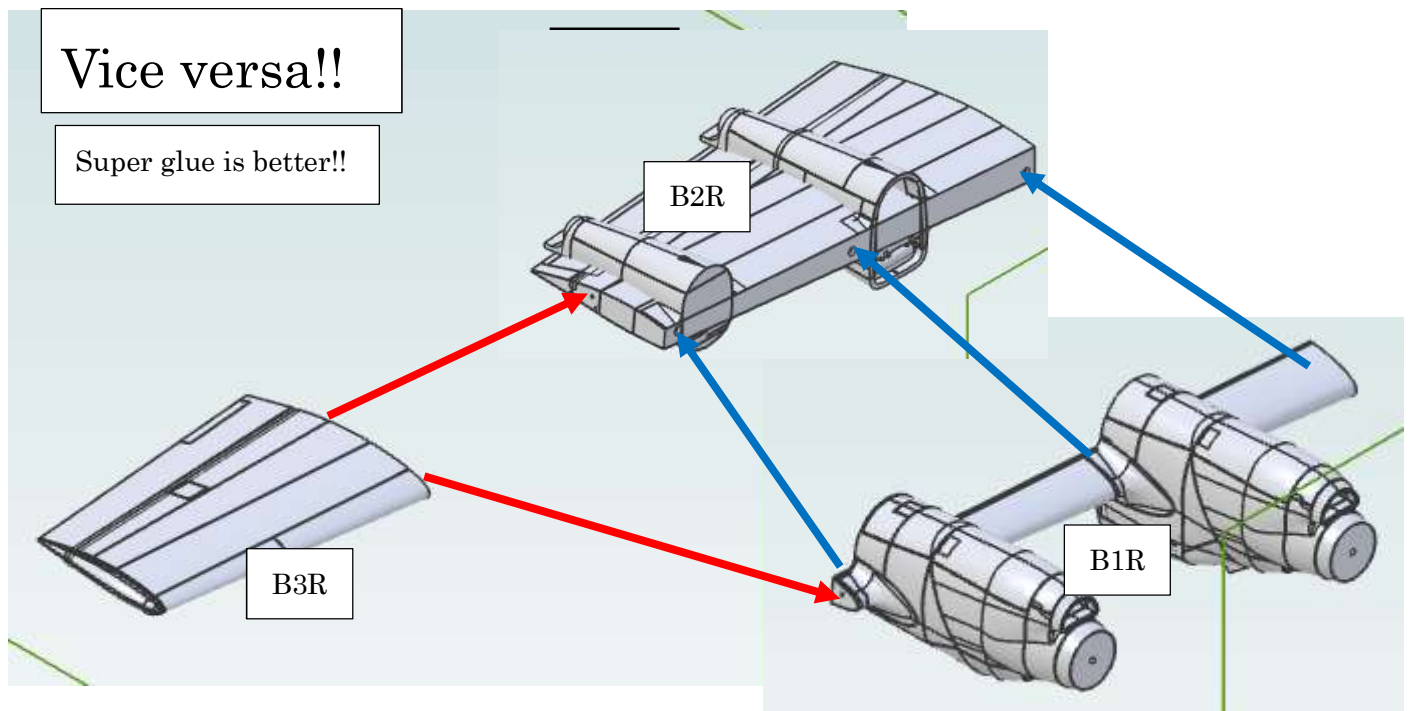
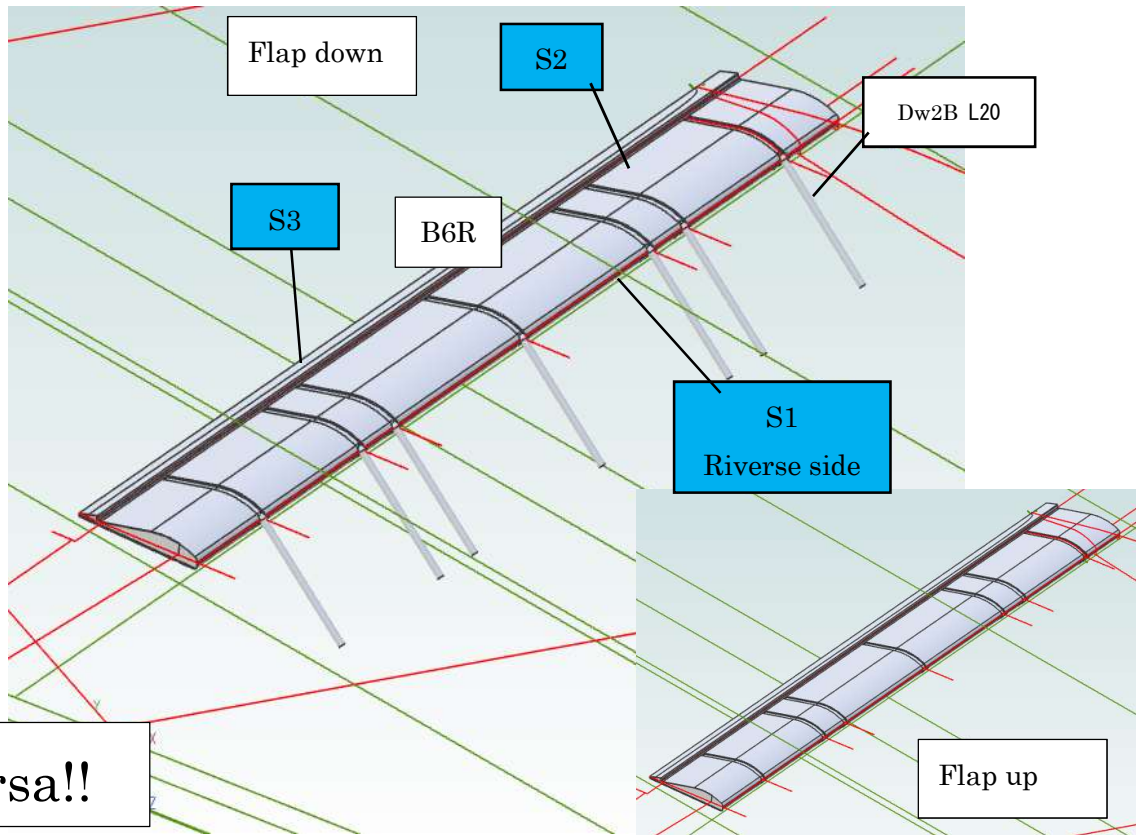
Printed in Japan

ABS filament and resin for 3D printers Made in China

# 2 The kit erection

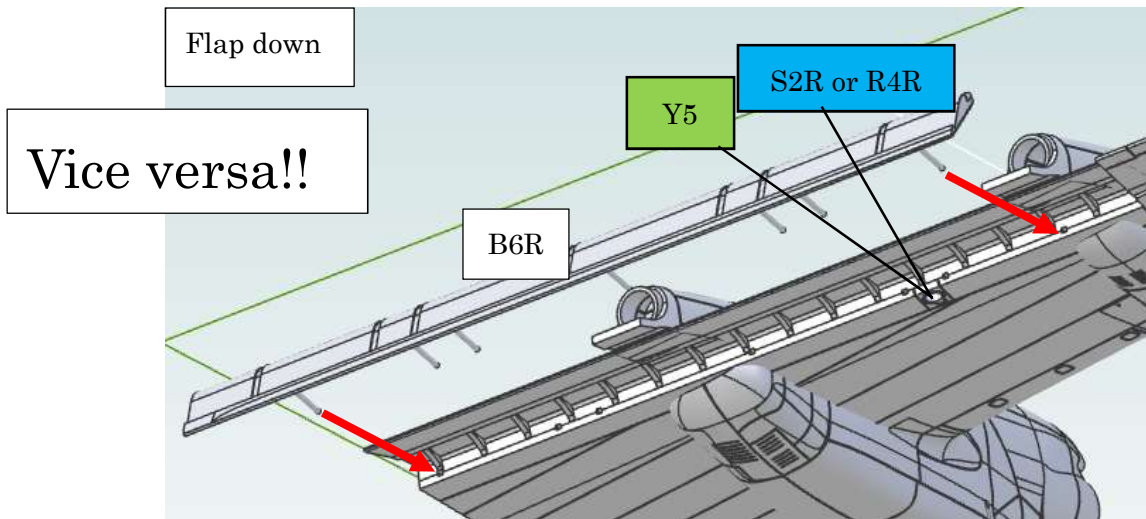
## 2.1 main wing unit (super glue is better than normal glue!!)

It is possible to select both closed and opened version since SN76!!

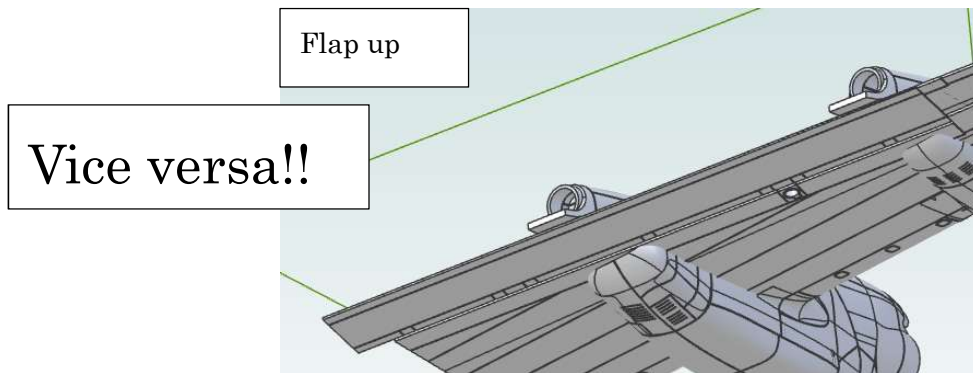


Among the above image '→' mean dw3A L4

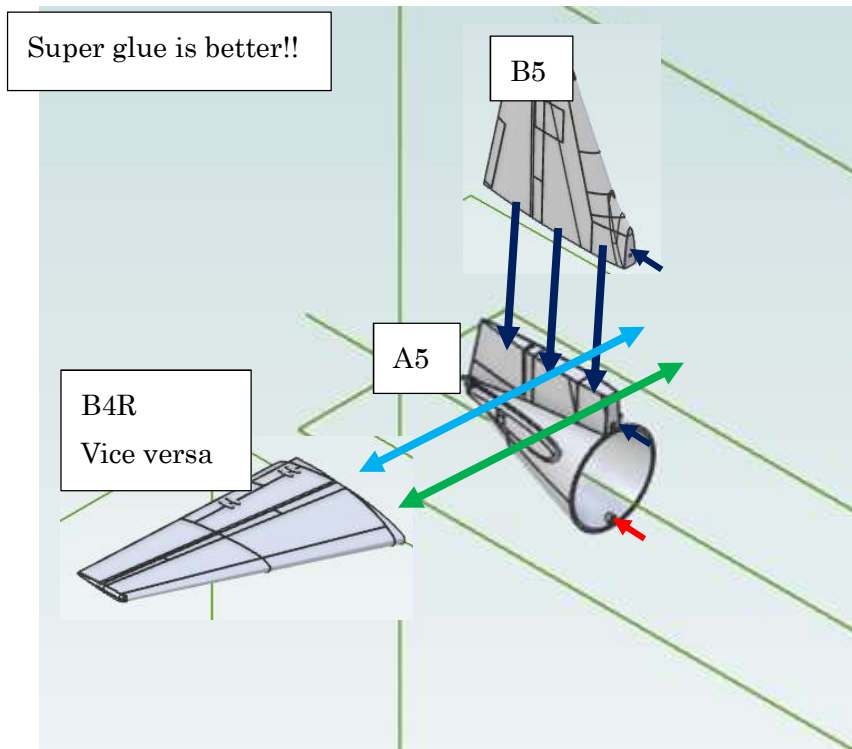
'→' dw3A L15



Y5 clear tape is on S2R.



2.2 rear unit (super glue is better than normal glue!!)



- Among the above image '→' dw3A L4
- '→' dw3C L4
- '→' dw3A L33
- '→' dw3A L26

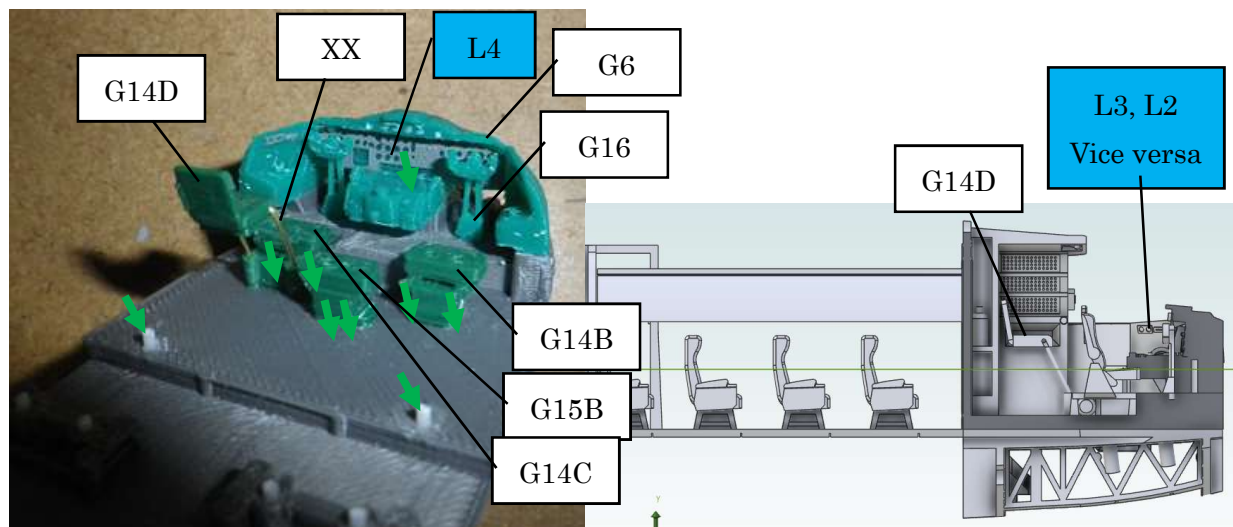
### 2.3 Interior assembly

- 1 Painting and sticking parts
- 2 Sticking parts
- 3 Dowel preparation on floor
- 4 Passenger seat, cockpit, toilet wall, landing gearbox, and other objects assembling.
- 5 Wall reinforcement to prevent distortion when assembling with fuselage
- 6 Final painting

Please refer this link when painting the VARIG air ver. inside.

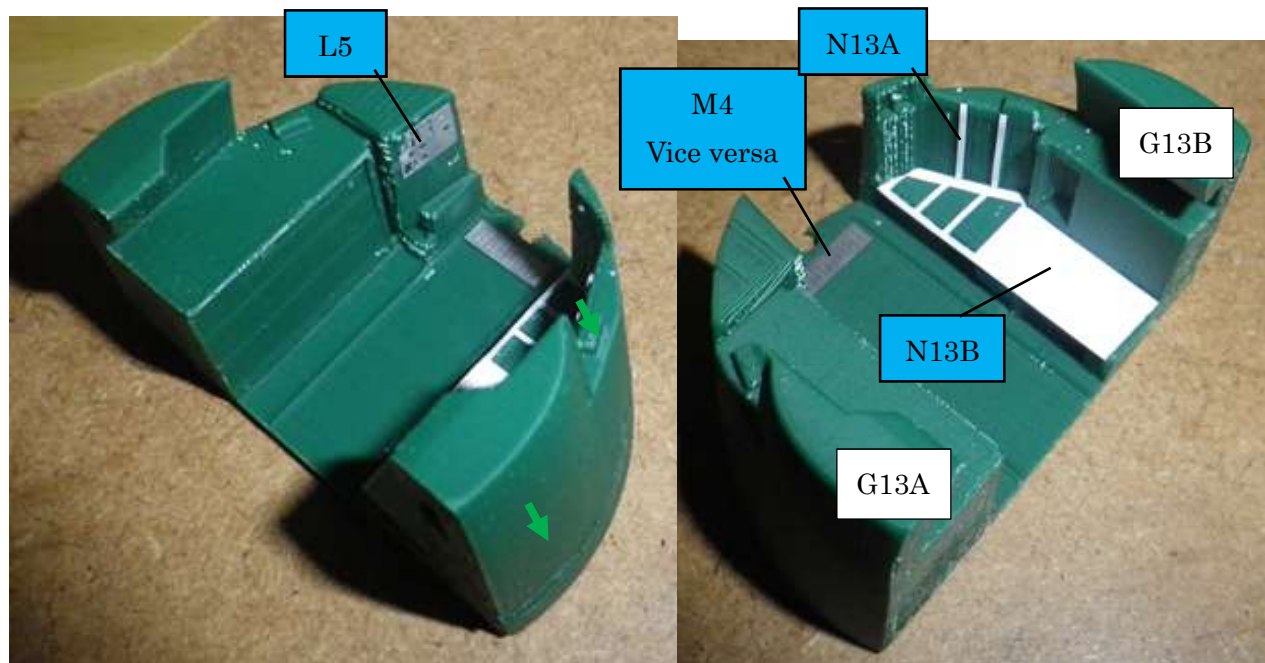
<https://www.youtube.com/watch?v=0iy7CQJn2uo&t=4s>

<https://www.youtube.com/watch?v=AURH6vRs00w>



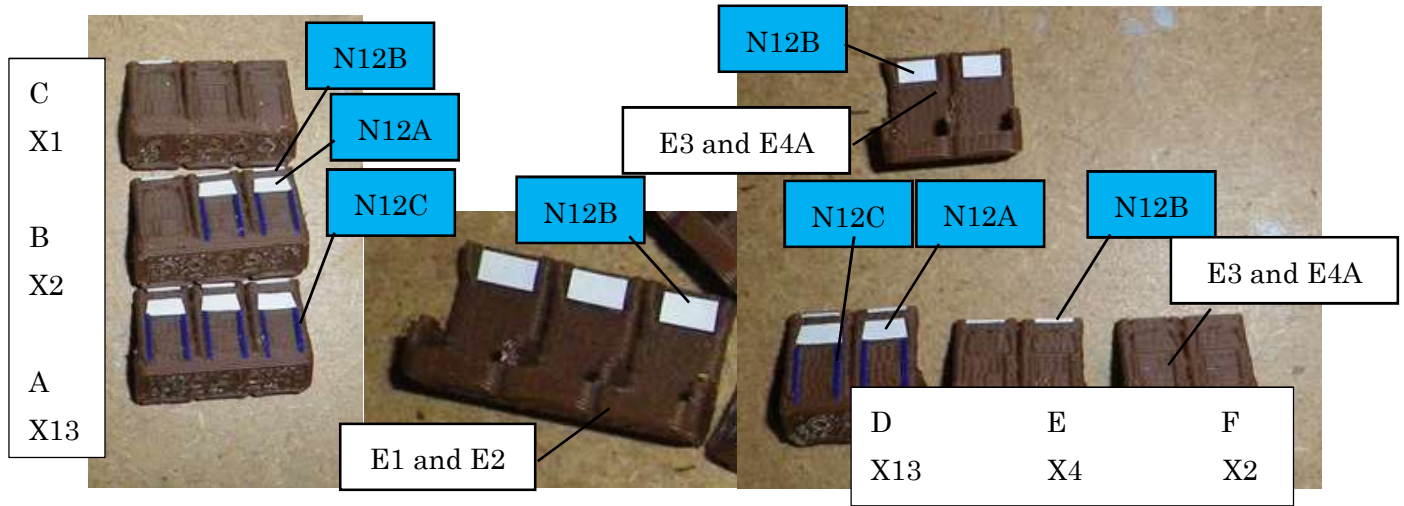
Among the above image '→' dw4 L3

Among the above image XX dw1 L28

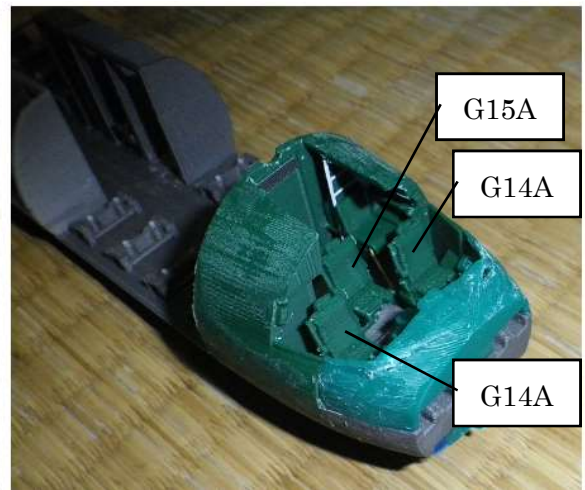
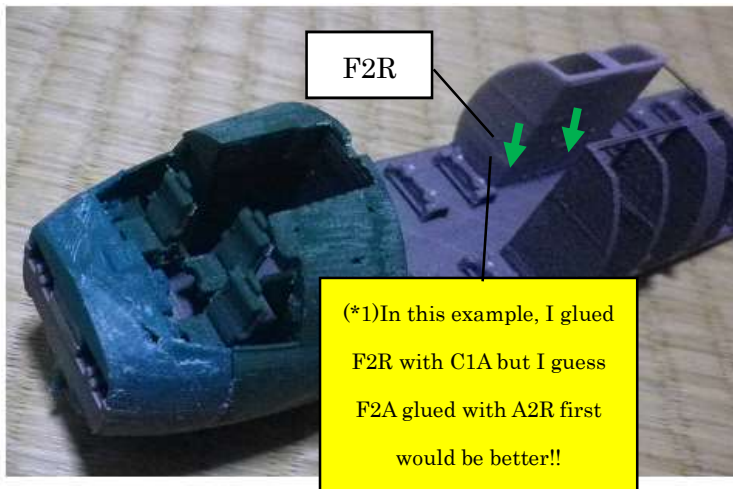


Among the above image '→' dw4 L3

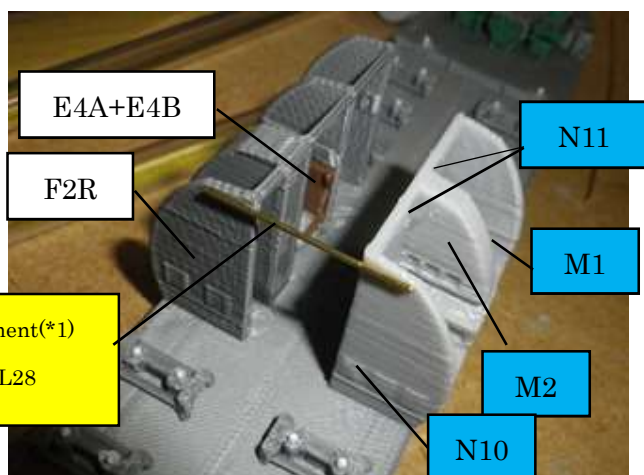
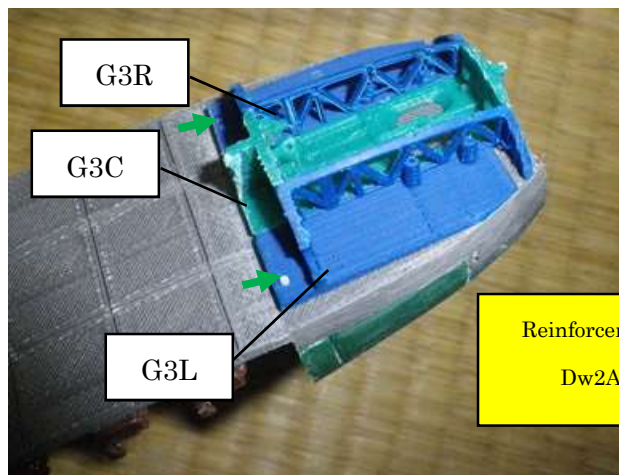
Sticker arrangement on reverse side of passenger seats is different in each position.



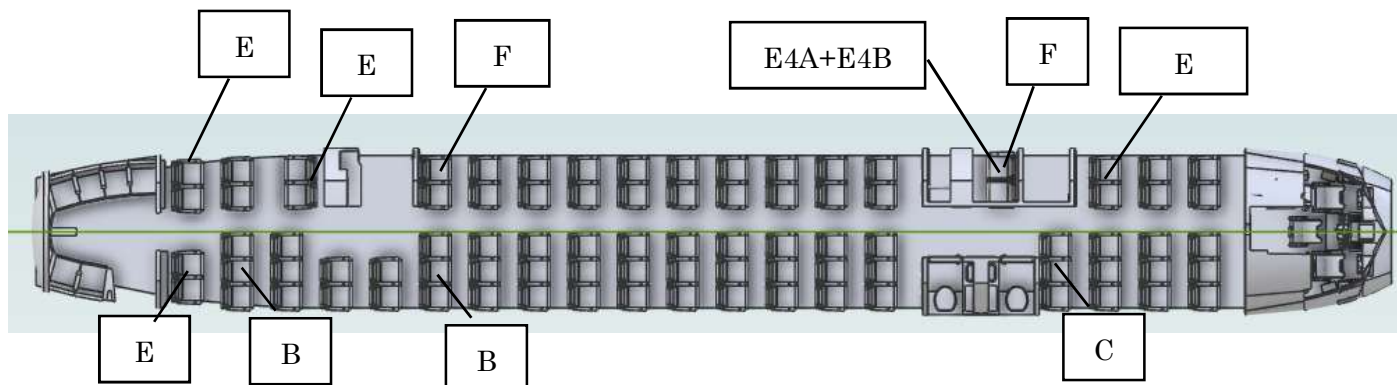
Basic arrangements are type A and D. When assembling passenger seats and F6R, please use dw4 L3



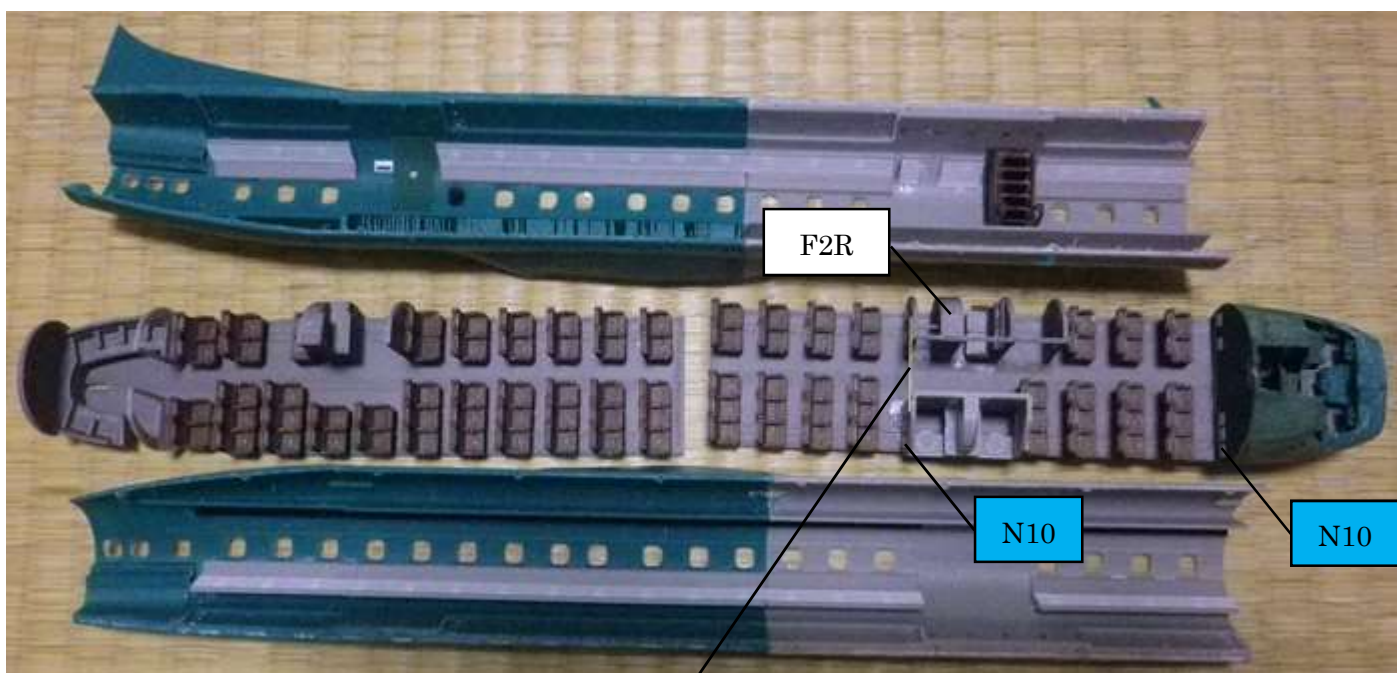
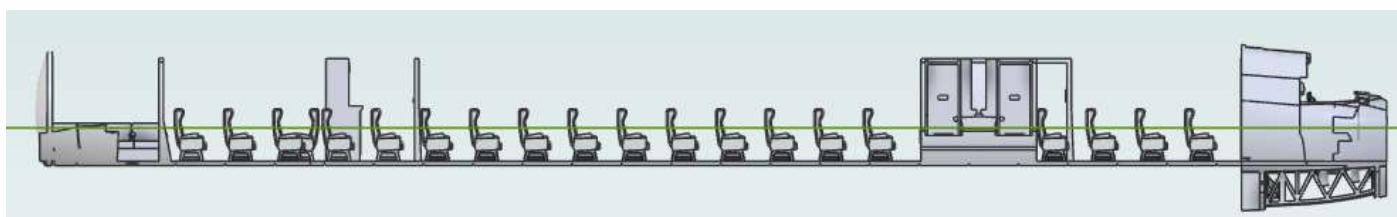
When gluing 3 cockpit seats and F2R, please use dw4 L3.



Among the above image '→' dw4 L3.



Basic reverse side sticker arrangements are type A and D(refer page 4).

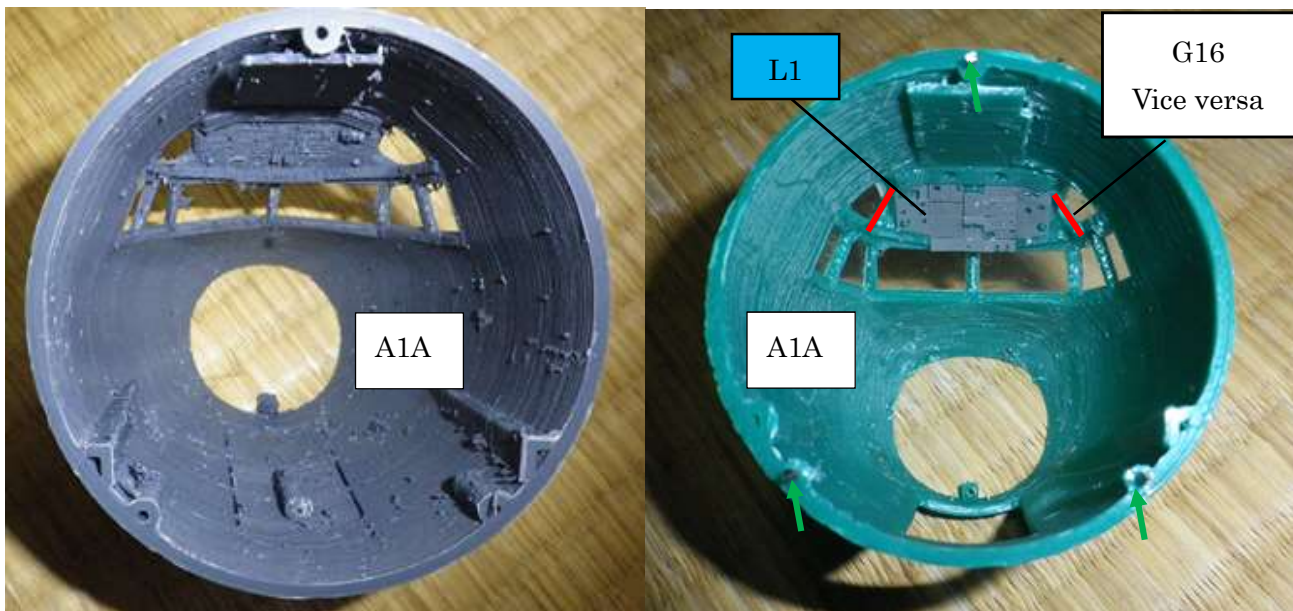


\*1 Reinforcement is NOT necessary if the F2R assemble with fuselage A2R first. Not with C1A. As for initial ver, reinforcement rod is not included.

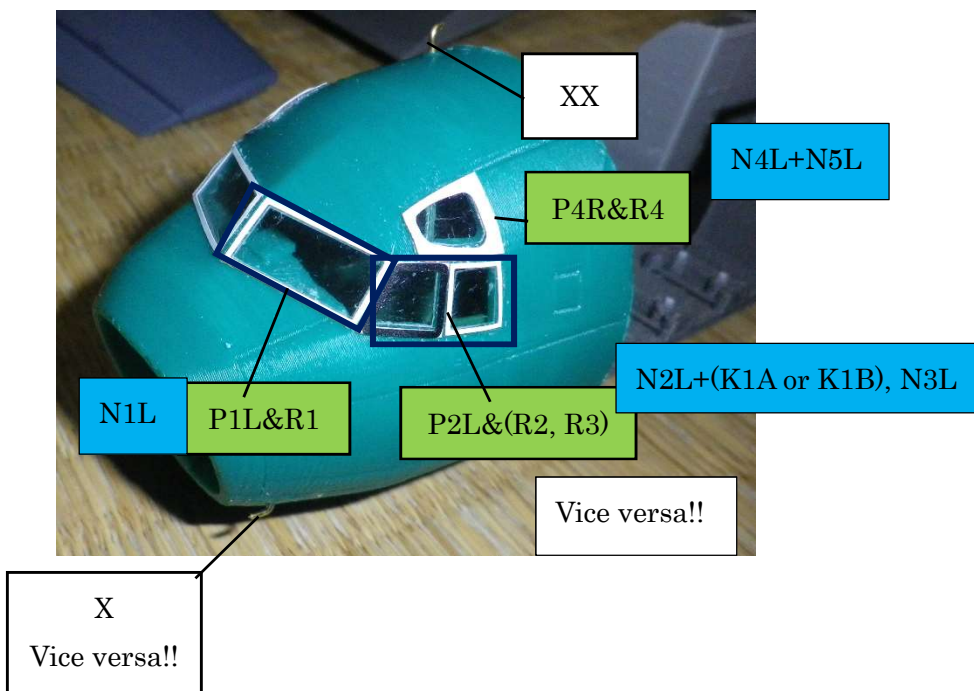
### 2.4 Forward fuselage

**- Before erection, removing inside and outside burr is necessary.**

- 1 Landing gear cover A1C separation Please cut off carefully!!
- 2 Painting inside
- 3 Sticking inside
- 4 window assembling (**clear tape from OUTSIDE and window clear sheet from INSIDE**)
- 5 Outside sticker and window masking for later exterior painting



Among the above image '→' dw3C L4



Among the above image, 'XX' dw2A L5

Among the above image, 'X' dw1 L5

Sticker is paintable. And window masking tape on clear sheet is useful when painting.

I guess black window frame or door edge sticker should be after painting.

2.5 Middle fuselage

- Before erection, removing inside and outside burr is necessary.

1 fuselage connection

1/72 A2R+A3R and vice versa Please use dw3C L4.

1/48 A2R+A3R and vice versa

1/32 A2R+A3R+A4R and vice versa

2 baggage rack assembling

3 Painting inside

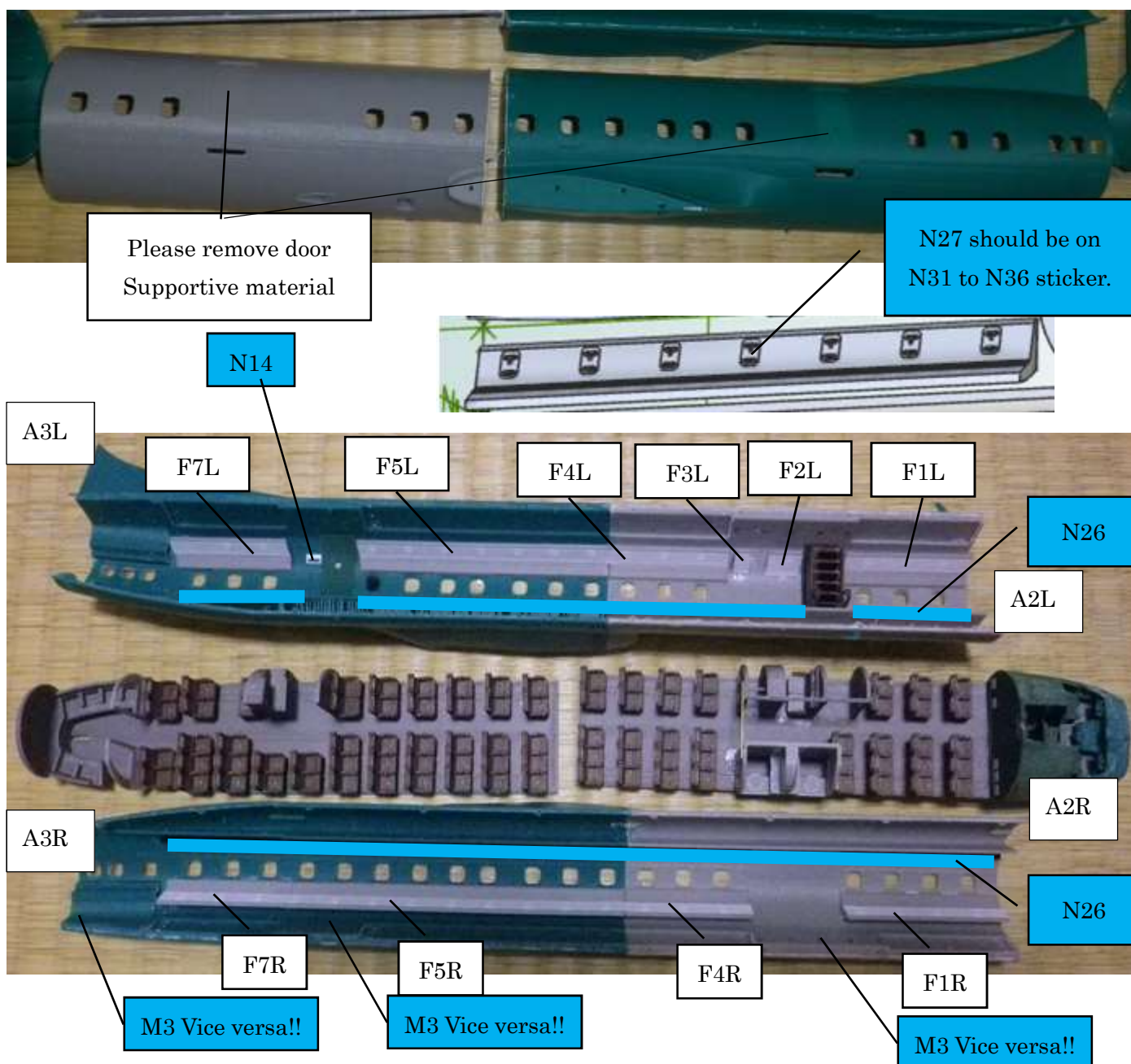
4 Sticking inside

5 window assembling

Clear tape is from OUTSIDE and window clear sheet is from INSIDE!!

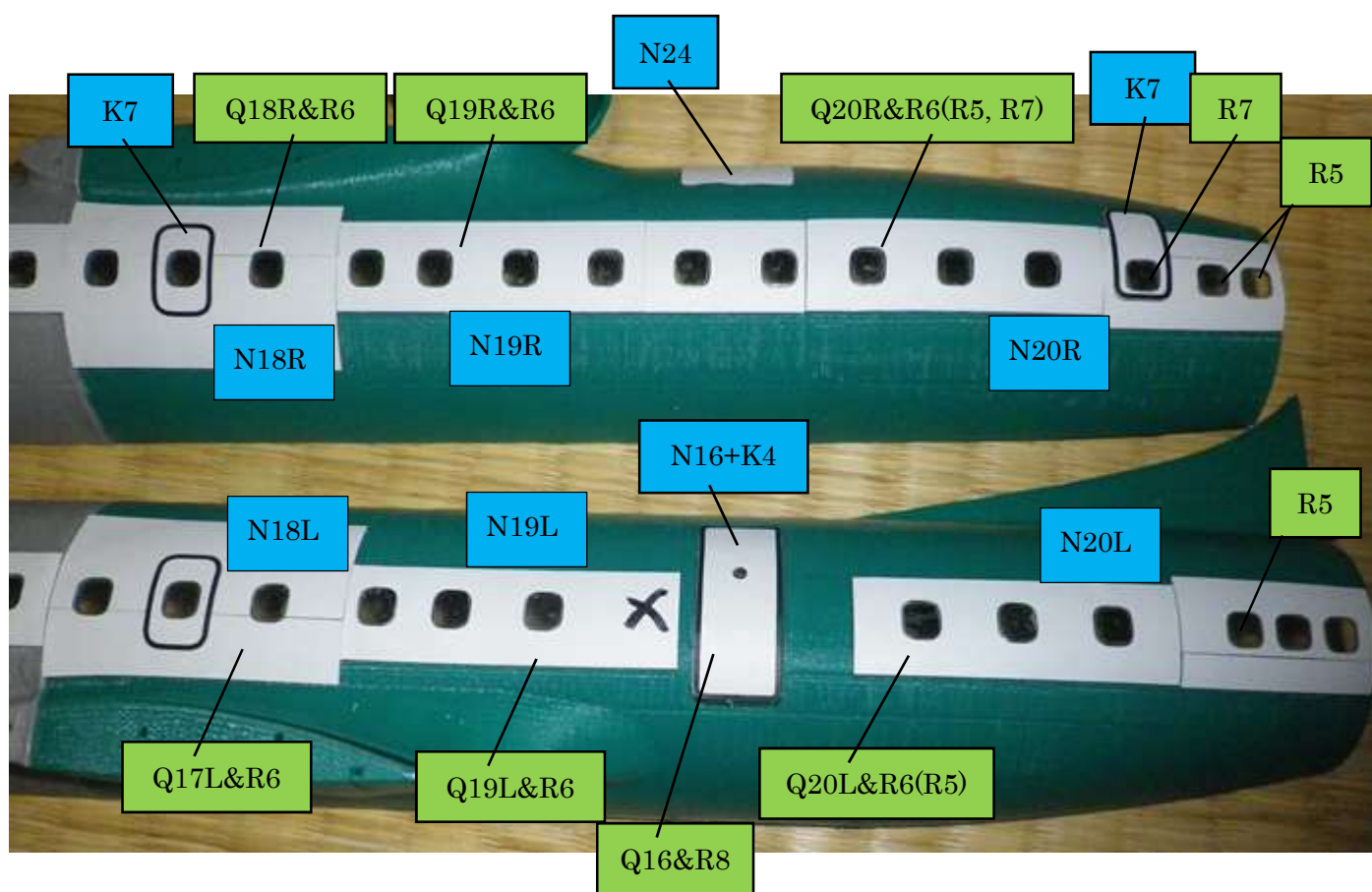
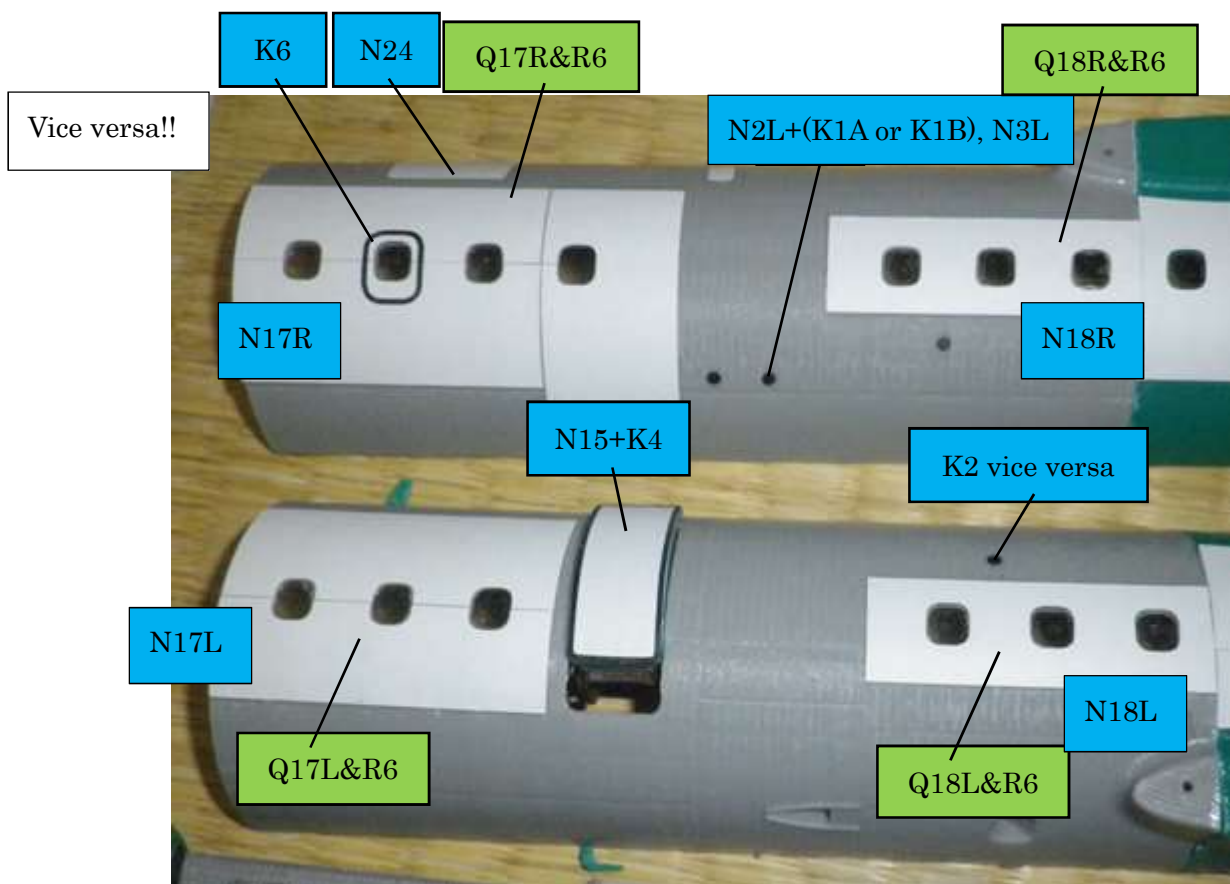
6 Outside sticker and window masking for later exterior painting

baggage rack	sticker
F1 L	N31 L
F2L	N32L
F3L	N33L
F4L	N34L
F5L	N35L
F7L	N36L
F1 R	N31 R
F4R	N34R
F5R	N35R
F7R	N36R





Clear tape is from OUTSIDE and window clear sheet is from INSIDE!!



Sticker is paintable. And window masking tape on clear sheet is useful when painting. I guess black window frame or door edge sticker should be after painting.

## 2.6 Fuselage and inside assembly connection

### 2.6.1 Middle fuselage and inside assembly connection (super glue is better than normal glue!!)

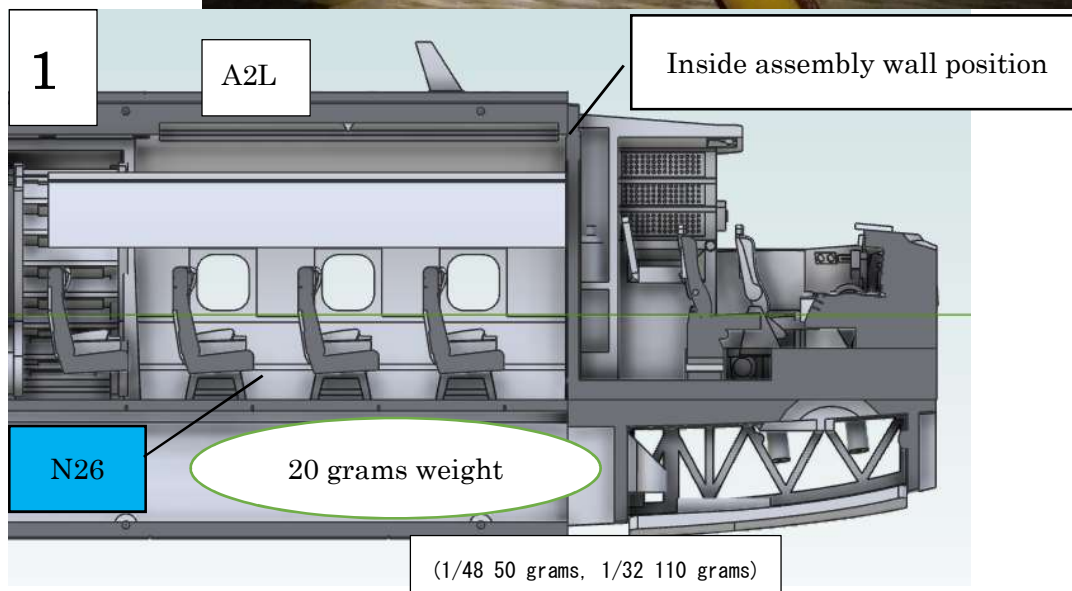
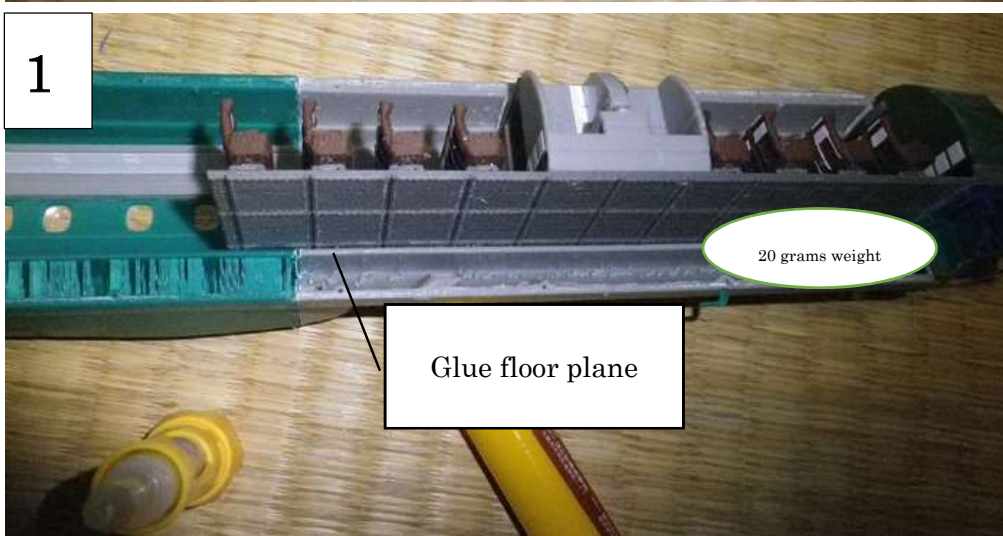
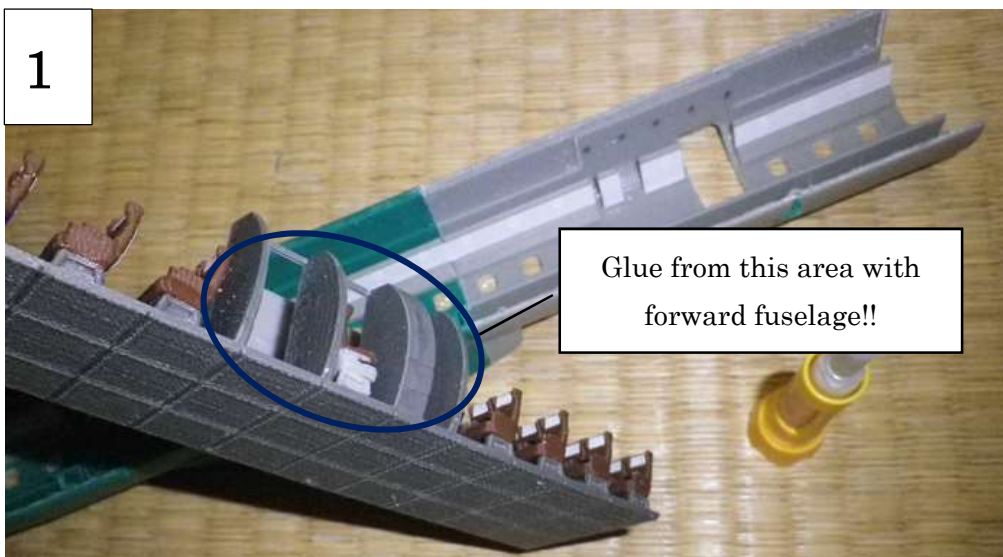
Please be careful of inside assembly position and check fitting before gluing!!

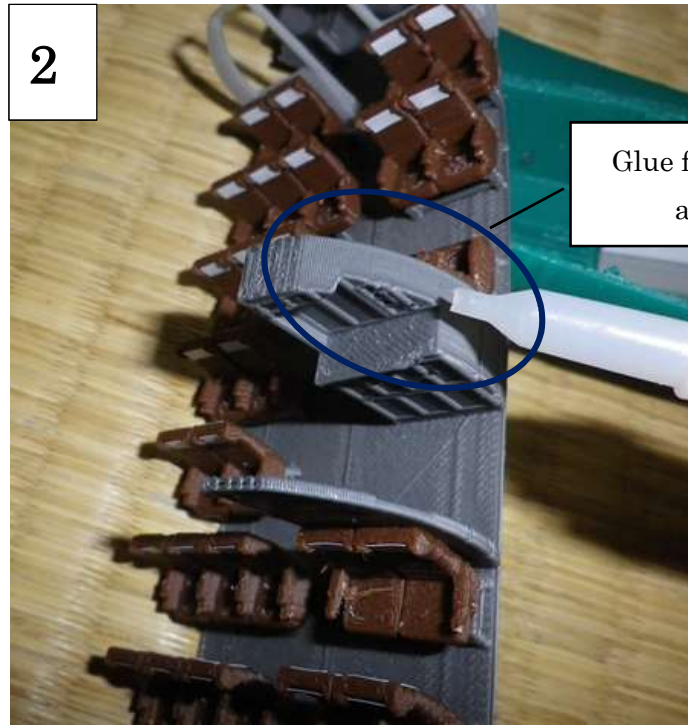
1 forward inside unit with middle-port fuselage

2 after inside unit with middle-port fuselage

3 20 grams weight (1/48 50 grams, 1/32 110 grams) installation and port-starboard fuselage connection

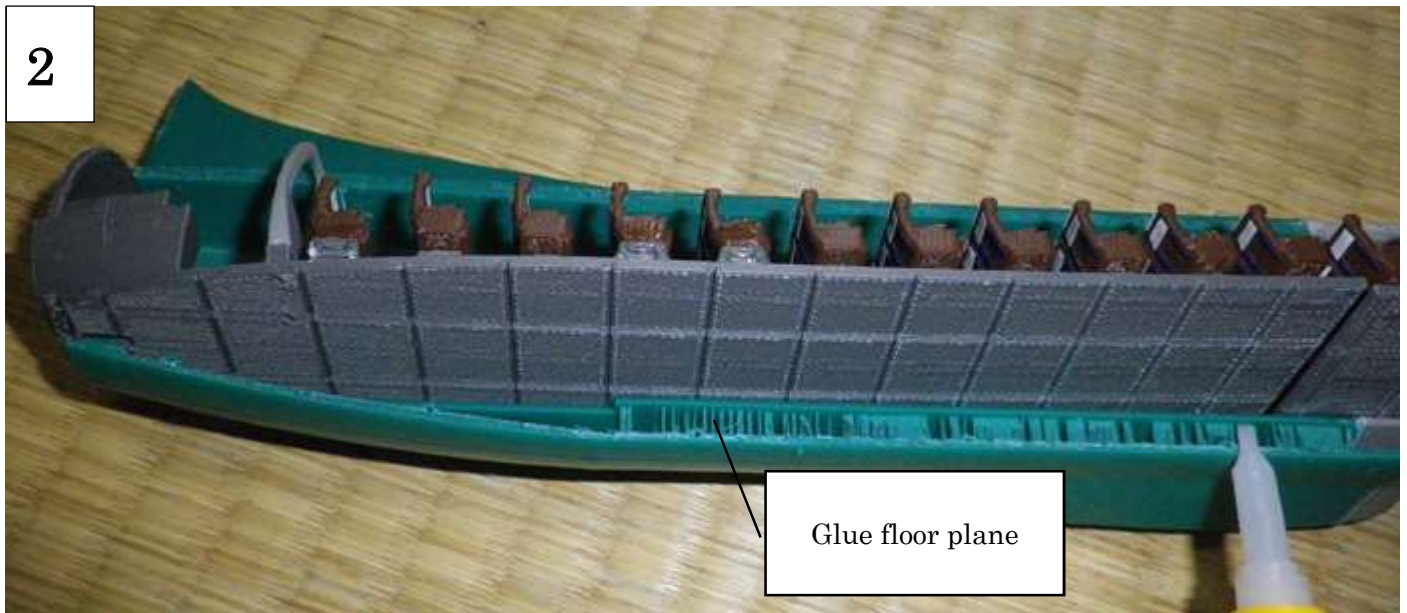
Please use  $\Phi 0.9$  L4 wire, 1/48  $\Phi 1.5$  L6 wire, 1/32  $\Phi 2.5$  L9 wire!!





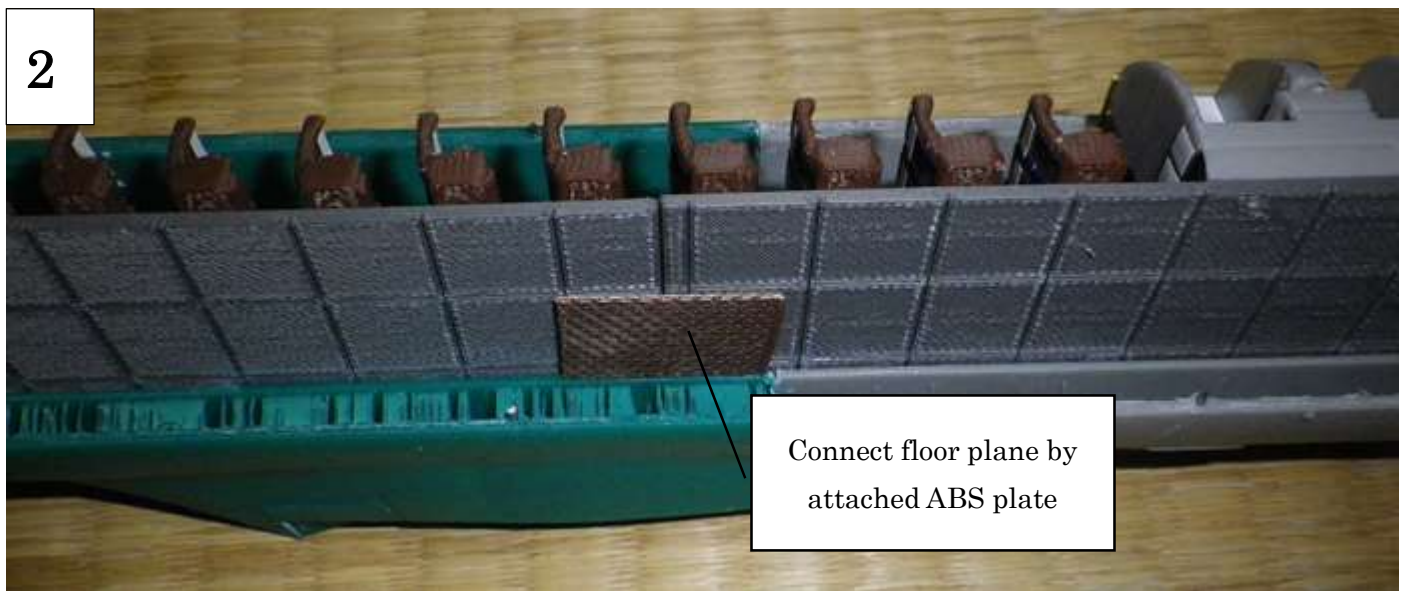
2

Glue from this area with after fuselage!!



2

Glue floor plane



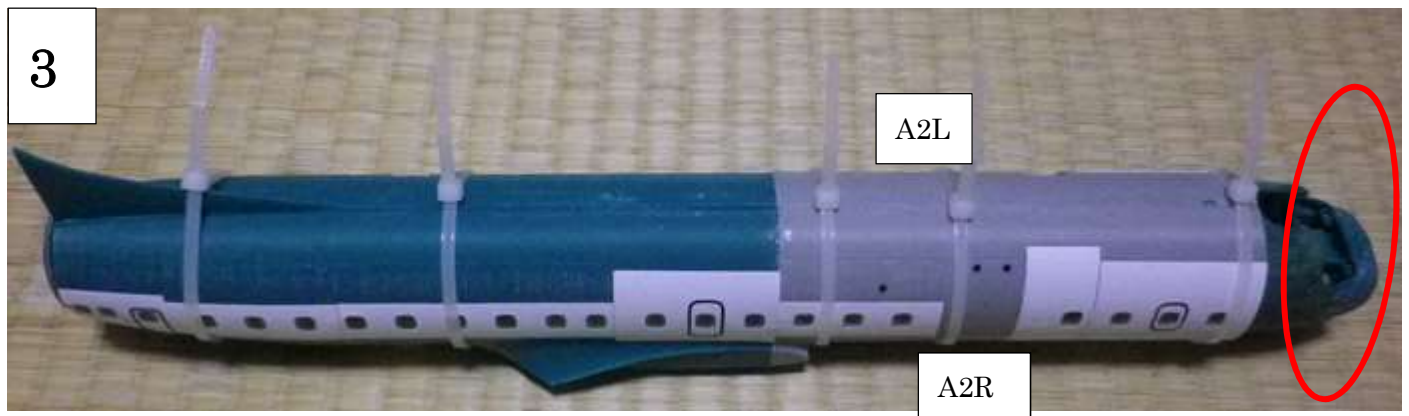
2

Connect floor plane by attached ABS plate

Antenna parts should be AFTER fuselage connection, otherwise, it would be broken very easiliy!!

When assembling port-starboard, please use dw3A L4!!

Please add 20 grams weight forward-under floor before connection to keep standing position!!

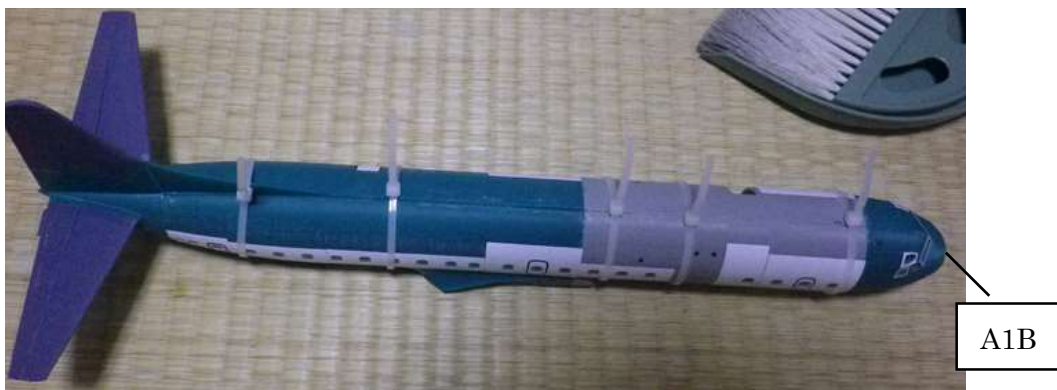


### 2.6.2 Forward and rear fuselage connection

Please check the fitting among A1A and A2 before gluing.

If it is difficult to fit well or tight, please sand red surrounded area.

Antenna parts should be AFTER fuselage connection, otherwise, it would be broken very easiliy!!



When assembling A1B, please use dw3A L4 wire.

### 2.7 Fuselage and mainwing connection

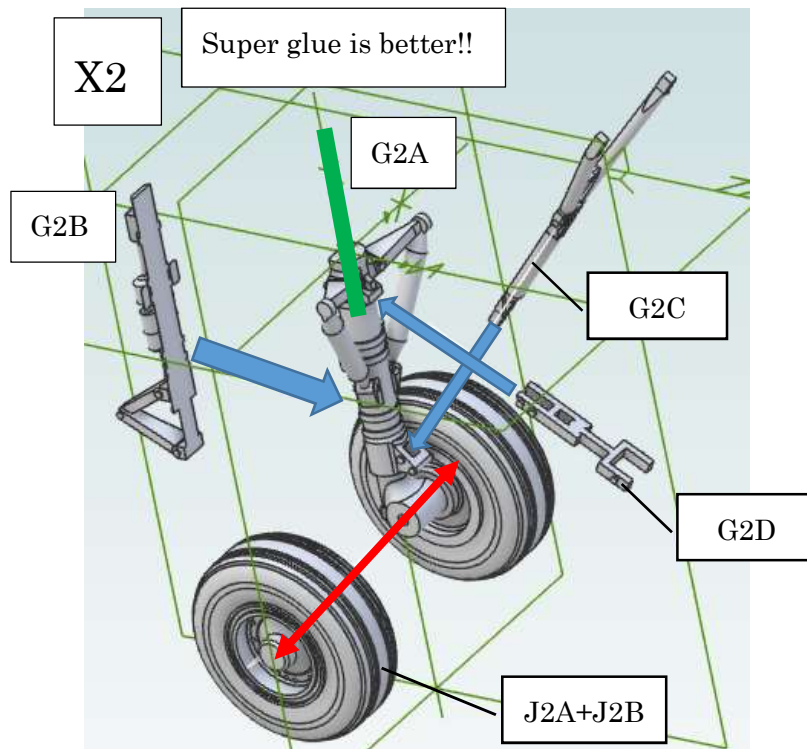
Vice versa!!



Among the above image '←→' dw5 L70!!

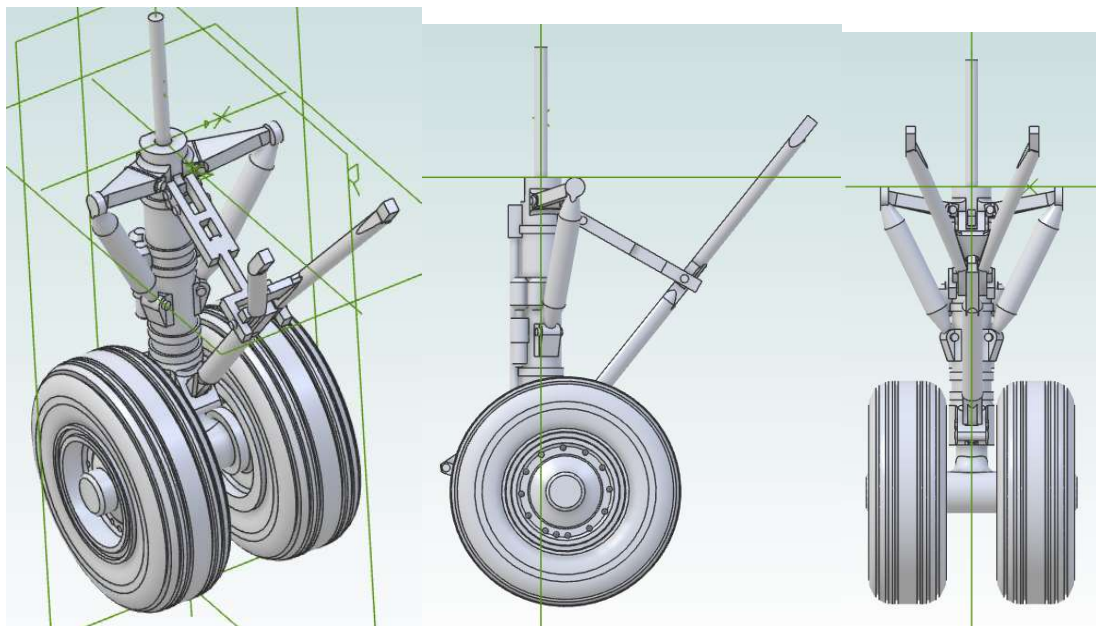
2.8 accessories

2.8.1 undercarriage assembly

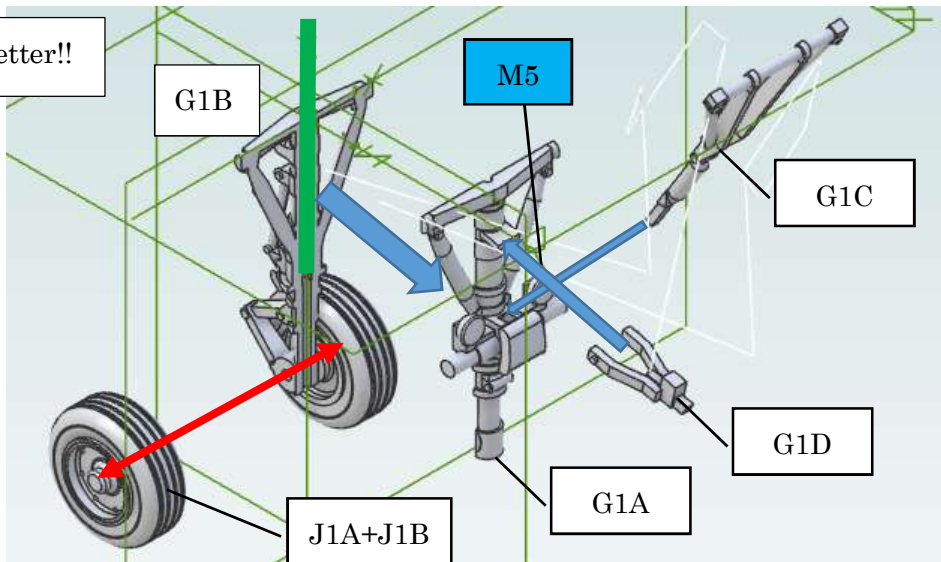


Among the above image '←' dw3A L20

'↔' dw2A L10

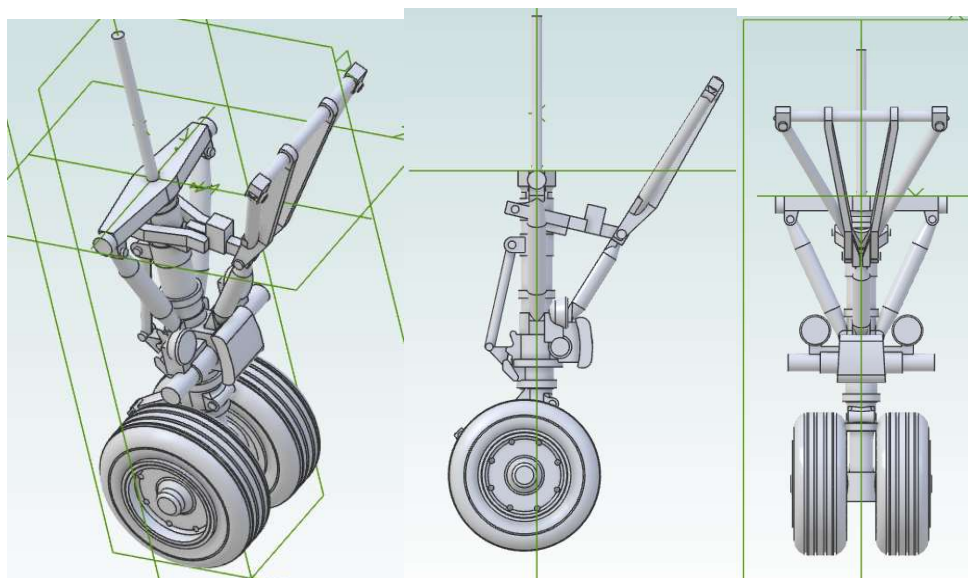


Super glue is better!!

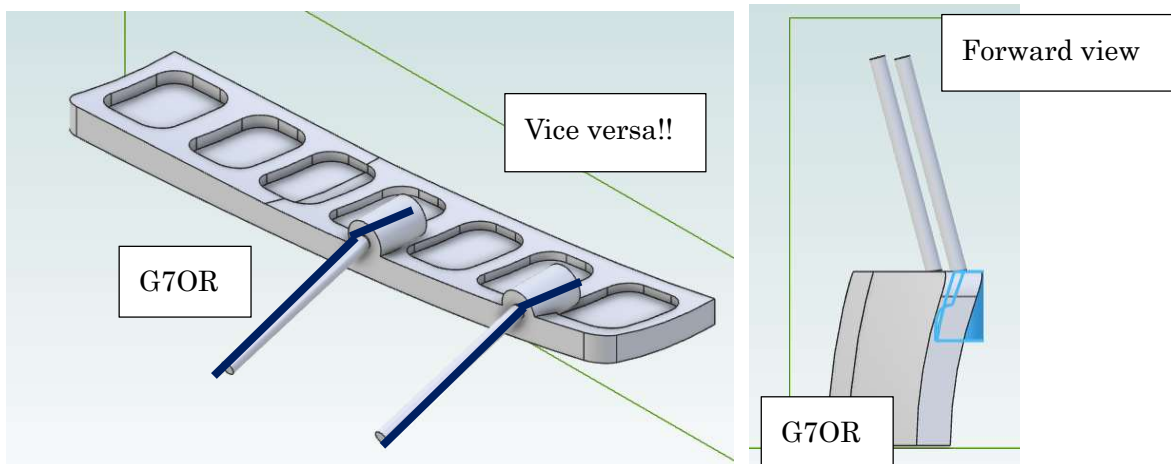


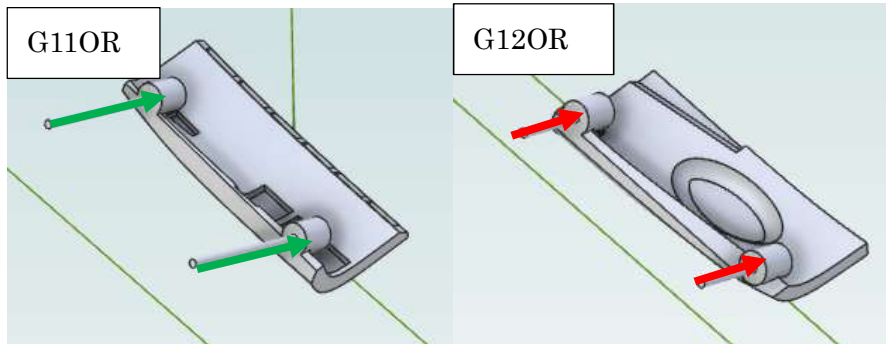
Among the above image '—' dw3A L20 wire

'↔' dw2A L8



### 2.8.2 undercarriage cover assembly (opened position)

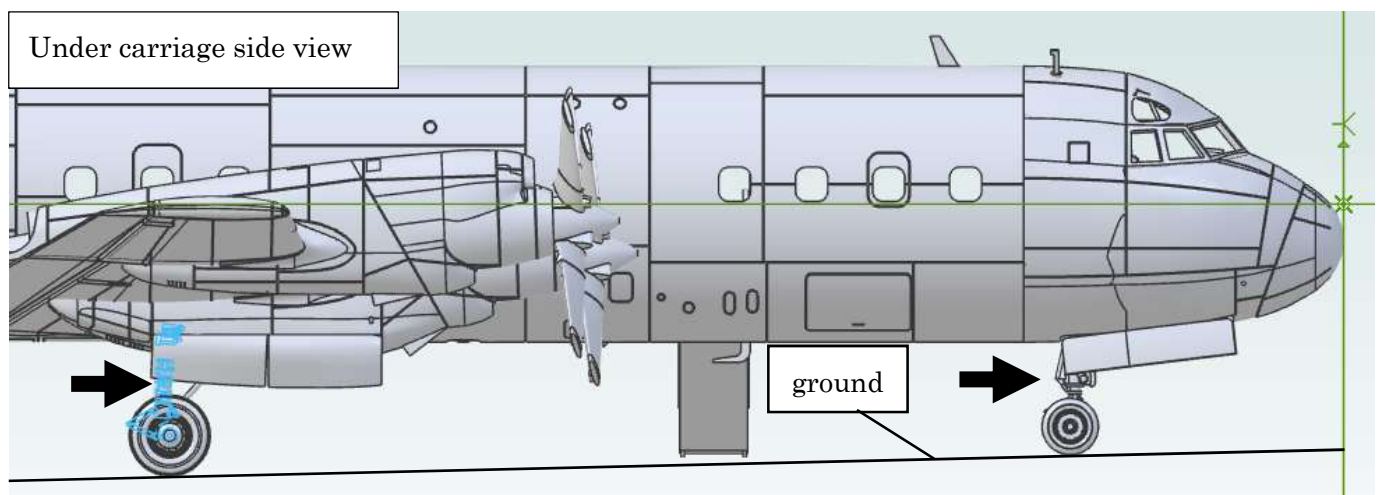
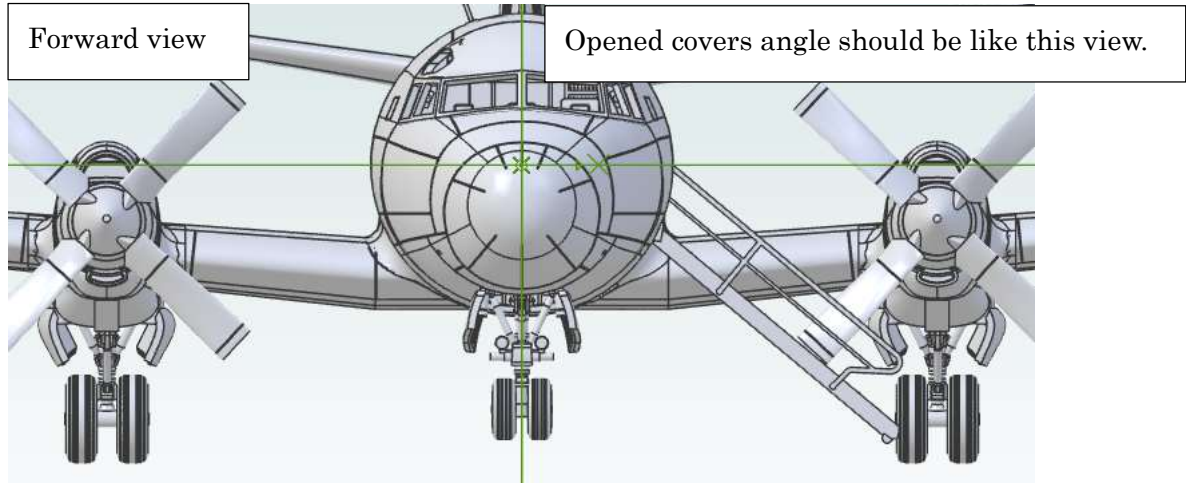
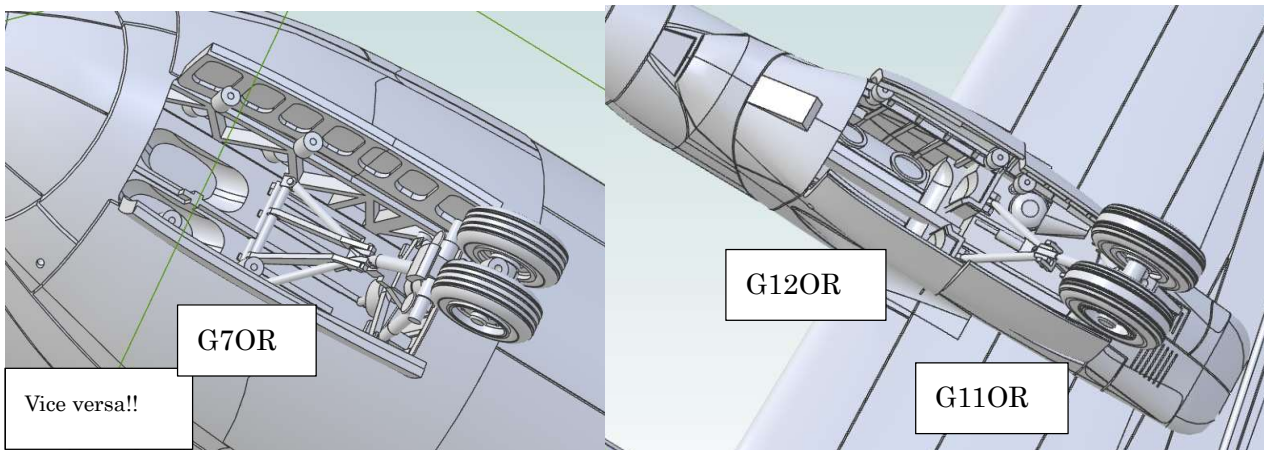




Among the above image '—' dw1 L11

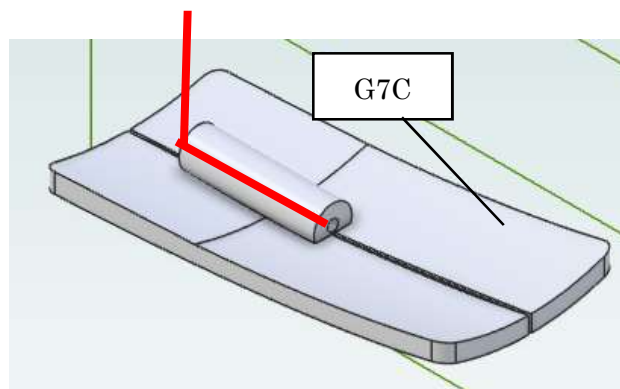
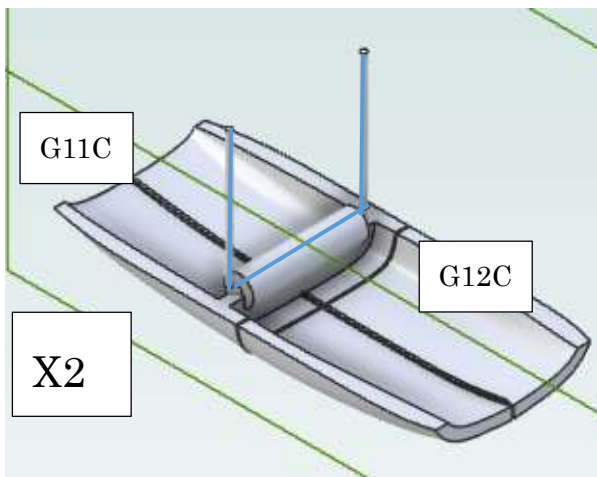
'→' dw1 L11

'→' dw1 L5

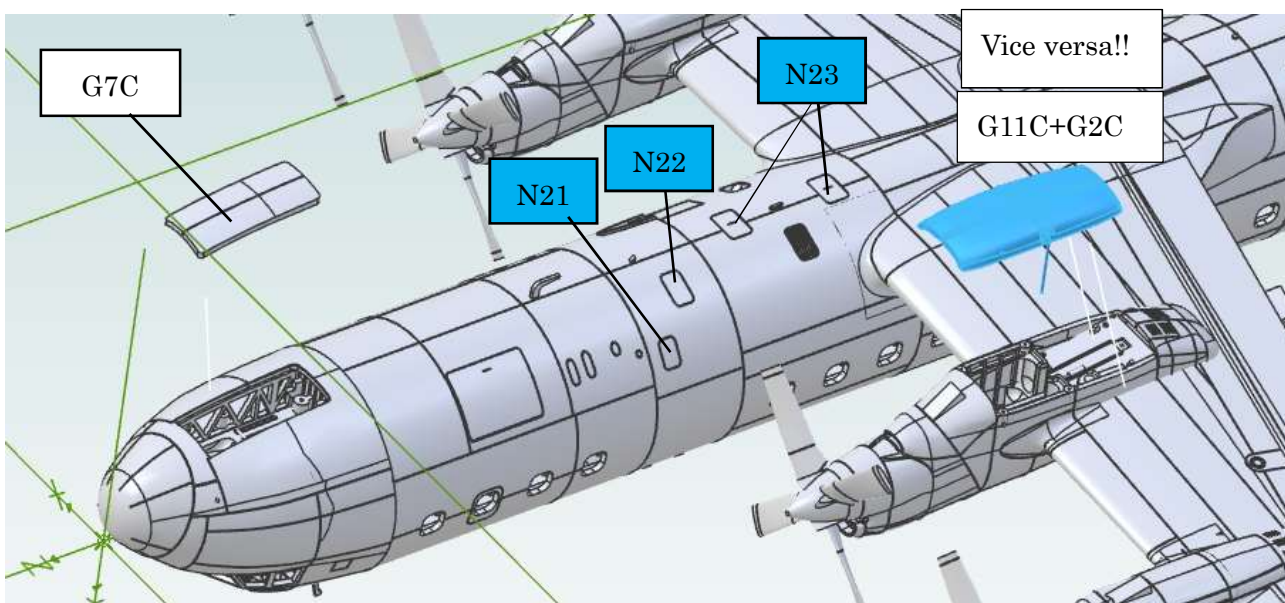




2.8.3 undercarriage cover assembly (closed position)

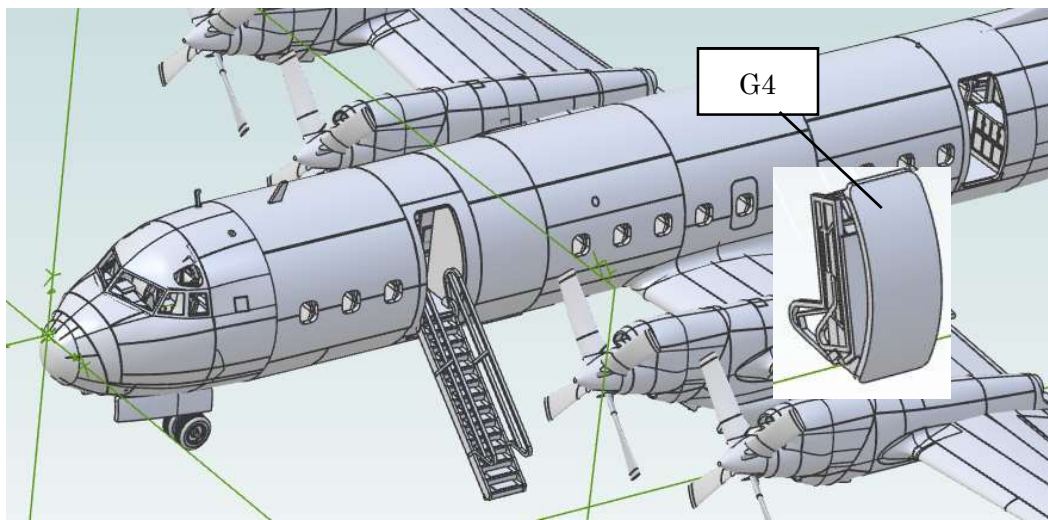
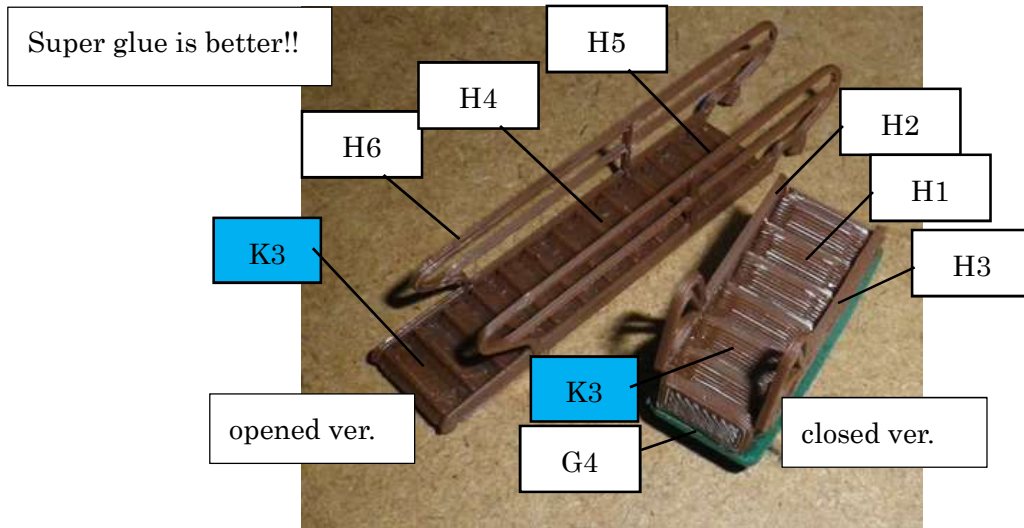


Among the above image '—' dw1 L29  
'—' dw3B L25





### 2.8.4 rampway and side doors



### 2.8.5 Antenna, props, etc

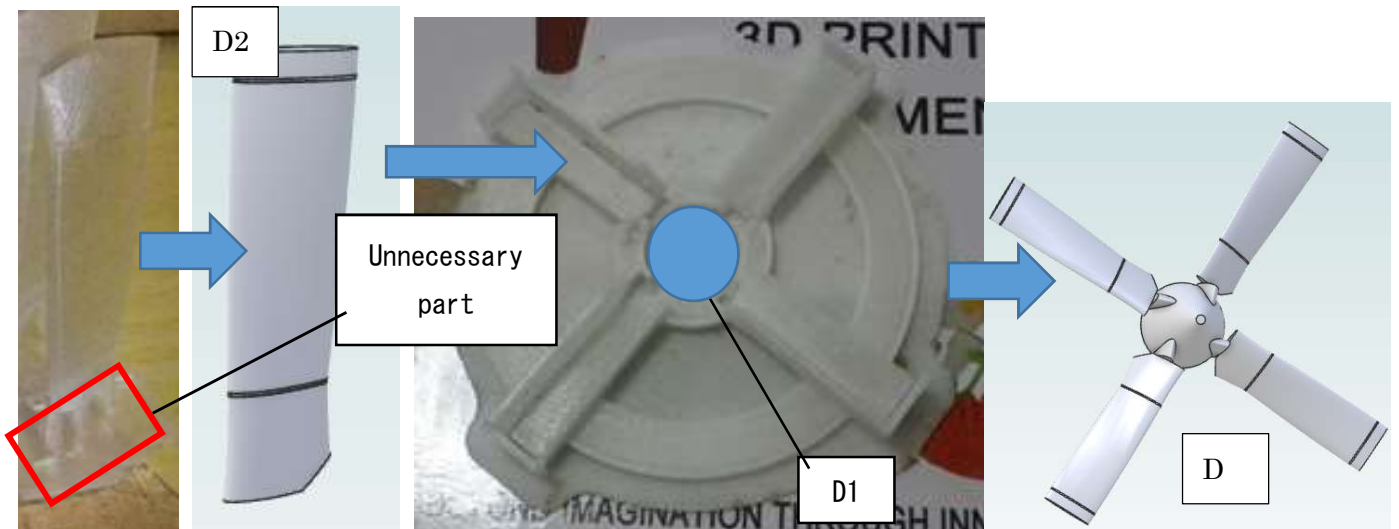
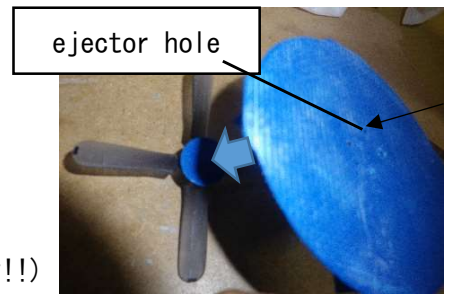
Please make 4 props like following process.

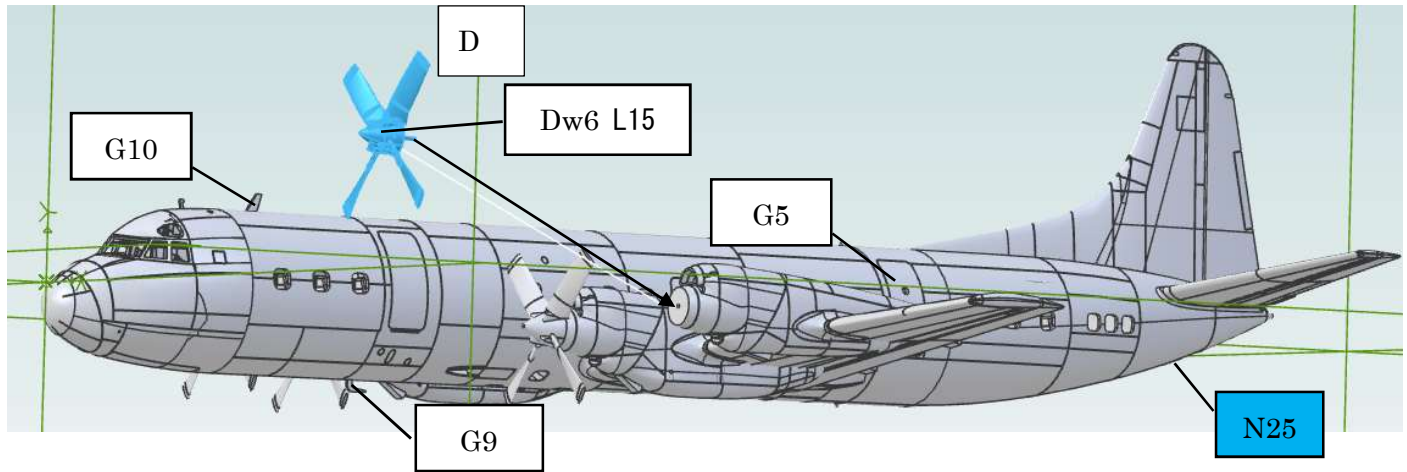
A burr removal D1, D2, prop jig

B arrange D1 and D2 on the jig carefully

C Glue them by superglue (please hold prop blade to prevent discrepancy!!)

D eject the prop assembly (please use dowel from ejector hole on reverse side!!)





## 2.9 Outside painting and sticking

- This kit does not include outside particular airliner stickers.
- Please paint your favorite color!!

Finally, the Electra is erected very hard!!

