Pop-Up Cards Book

pdf version

Pattern Sheets of Origamic Architecture

Volume 4
Exquisite Designs

Make your own pop-up cards now!

10 patterns

Rose

Ballet Girl

180° Swans

180° Carriage

Wedding Pavilion

Little Chapel

Little Chapel(refined)

Cuckoo Clock

Piano

Christmas House

Designed by Max Chow

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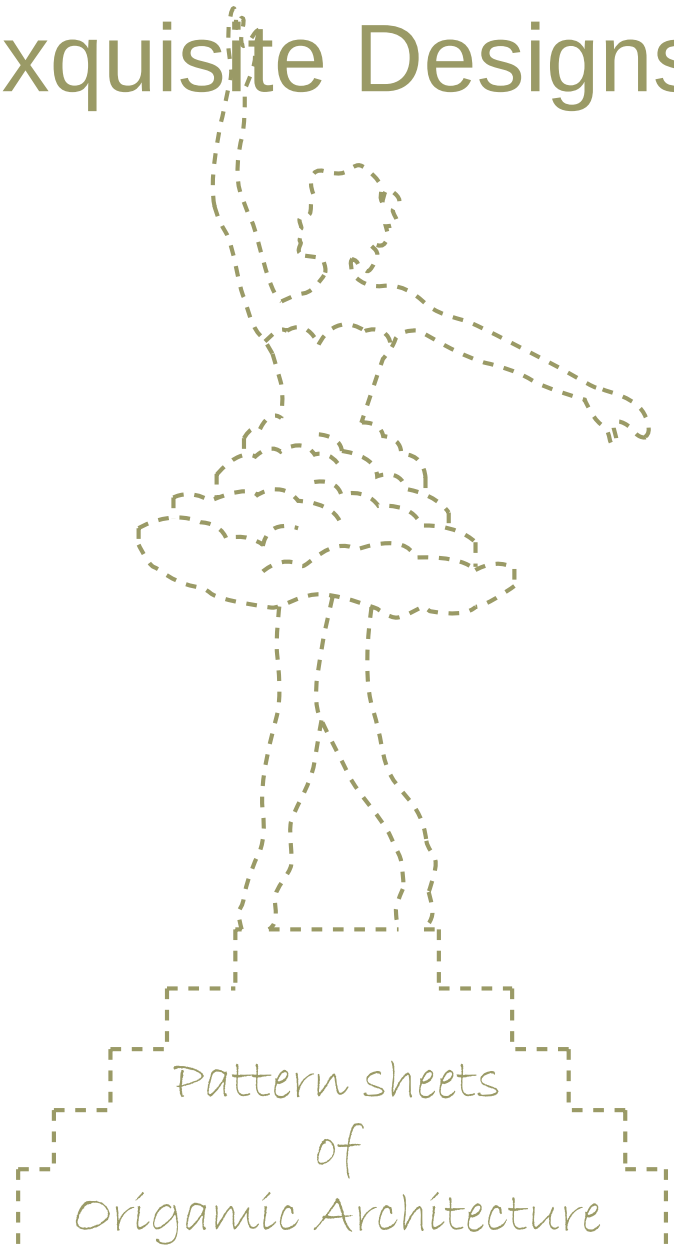
Pop-up Cards Book (pdf version)

Volume 4

Exquisite Designs



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Author: Kwok Cheung Chow (Max Chow)

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Welcome to the Wonderful World
of
Origamic Architecture!

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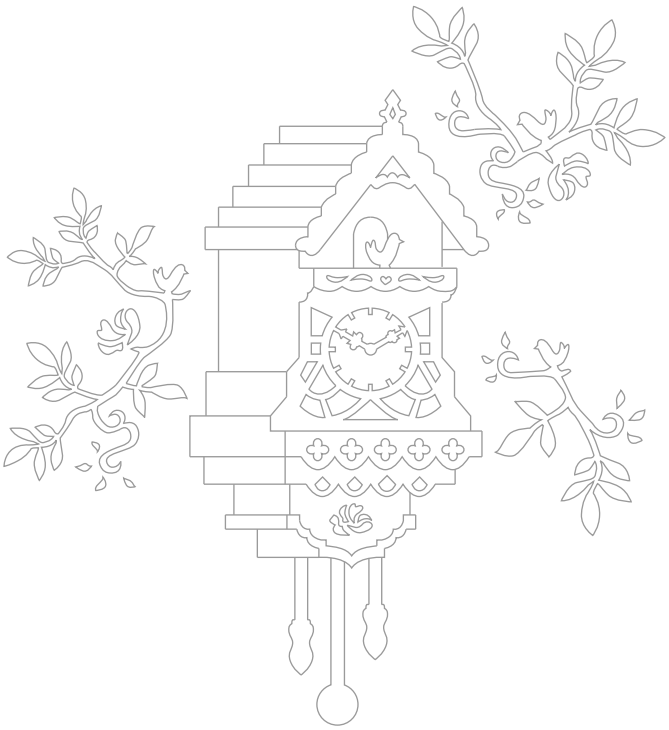
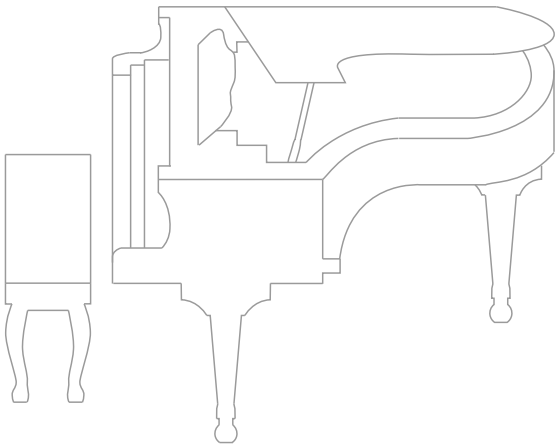
General Instructions



1. Rose
2. Ballet Girl
3. 180^{o} Swans
4. 180^{o} Carriage
5. Wedding Pavilion



6. Little Chapel
7. Little Chapel(refined)
8. Cuckoo Clock
9. Piano
10. Christmas House

General Instructions

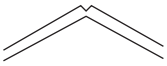
Apart from this pop-up cards ebook, please have the following materials prepared beforehand to proceed the handcrafting:

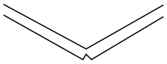
✧ Card paper (A4 size preferred , weighted around 160 – 200gsm if not specified)
✧ Plain paper (A4 size preferred, weighted around 70-80gsm for printing out pattern sheets)
✧ A printer

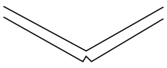
Please also be recommended to use the hand tools below:
✧ a very sharp knife
✧ a steel ruler
✧ a cutting mat (preferably with grid-lines)
✧ a pair of tweezers
✧ tapes or double sided tapes
✧ white glue

Legends
Note that there are 6 types of lines printed on the “Pattern Sheet” distinguishable of their respective functions:

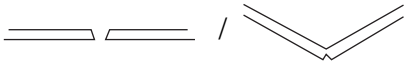
Black cut-line

Mountain fold-line 

Valley fold-line 

Main fold-line 

Green cut-line(borderline)

Cut-line/ Valley fold-line 

Step 1. Prepare the “Pattern Sheet”

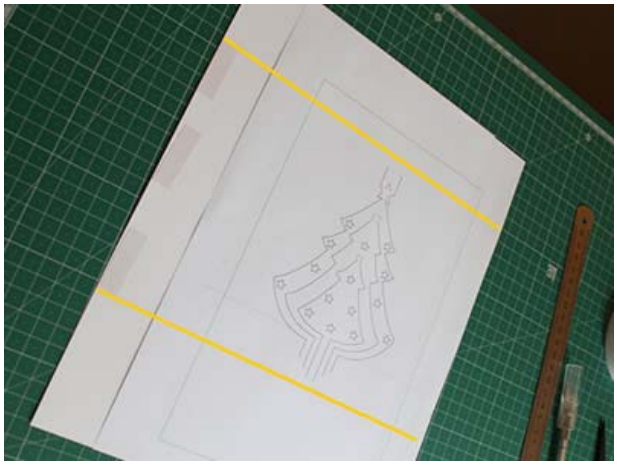
✧ Select a card pattern and print it on a piece of plain paper as the “Pattern Sheet”.

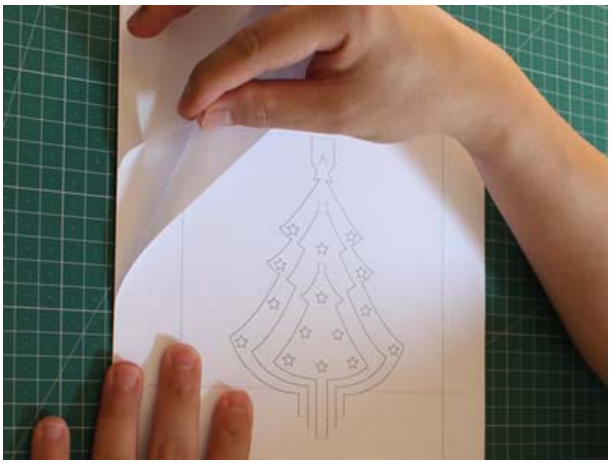
Tip: (i) If you are new to this, please choose a simple pattern to start with first;

Step 2. Attach the “Pattern Sheet” to the card paper

✧ Place the “Pattern Sheet” on the card paper;

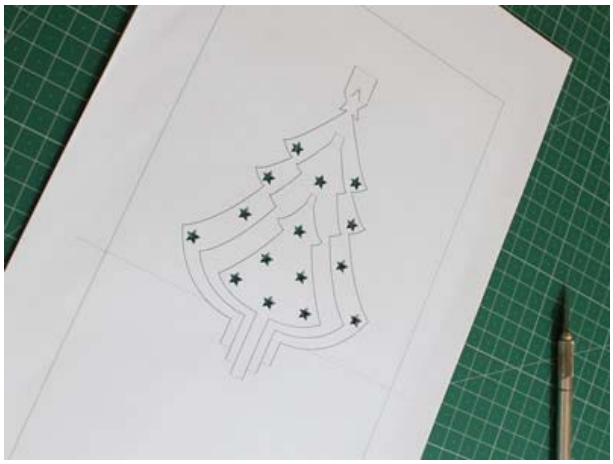
✧ Use tapes or double sided tapes to fix the “Pattern Sheet”. Note that the tape should be applied to the area outside the green cut-line which delineates the “borderline”.





Step 3. Handle the black cut-lines

✧ First, handle the cutouts;



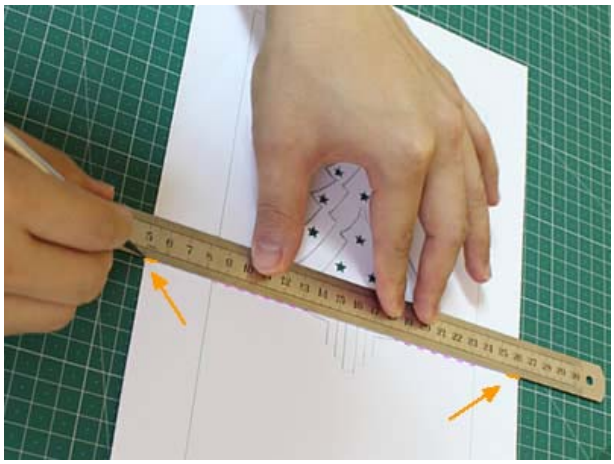
✧ Then cut all other **black cut-lines** along.

Tips: (ii) Always use a new sharp blade;
(iii) Carefully and slowly follow the cut-lines to perform the cutting;
(iv) In some cases, several cuts are required for a curved line.

Step 4. Positioning and marking the main fold-lines

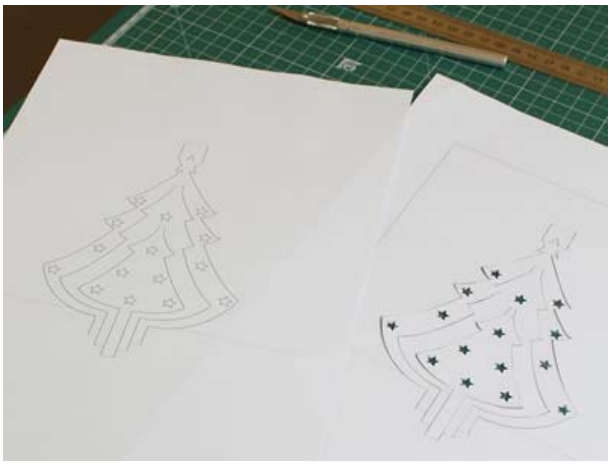
✧ Align the main fold-lines with a steel ruler;

✧ Cut a depth of 1mm – 2mm from both of the paper edges by the steel ruler in alignment with the main fold-lines as illustrated in the picture below.



Step 5. Prepare the "Valley Flow-lines Pattern Sheet"

✧ Print the corresponding "**Valley Flow-lines Pattern Sheet**" on a piece of plain paper.

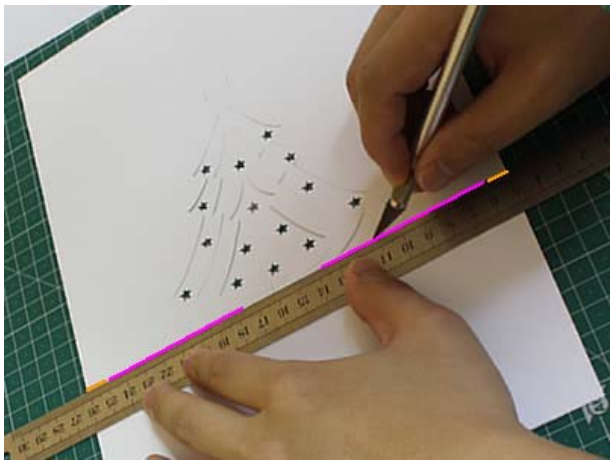


Step 6. Handle the valley fold-lines

✧ By tracing the cutting track you have already created, and comparing it with the "**Valley Flow-lines Pattern Sheet**" printed in **Step 5,** you should be able to **identify** the position of the **main fold-lines** and those of the **valley flow-lines** on the **back** of the **card paper**;

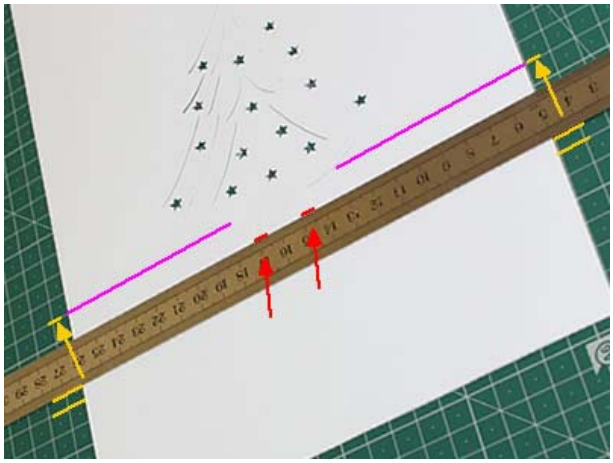
✧ Remember that all **valley fold-line cuts** must be applied on the **back** of the **card paper;**

✧ Along the markings created in **Step 4**, **half-cut** the **main fold-lines** on the **back** of the **card paper;**



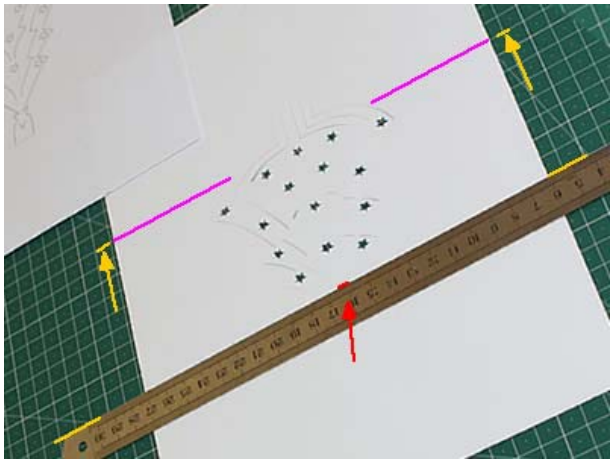
✧ If the cutting mat offers a grid, align the **main fold-lines** with a grid-line;

✧ **Half-cut** all other **valley flow-lines** in such a way that they all are **parallel** to the **main fold-lines** / grid-line.

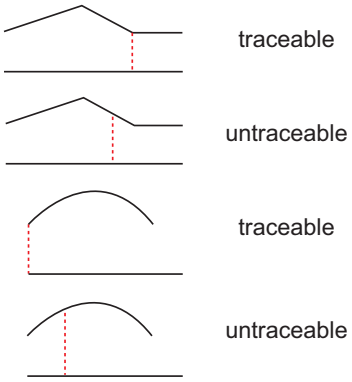


Tips: (v) A slightly sharp blade is preferred;

(vi) Some **valley fold-lines** can only be cut accurately by rotating the paper by 180°.



Tip: (vii) In case some **valley fold-lines** that cannot be identified precisely by tracing the cutting track, please apply the method of handling the **main fold-lines**.

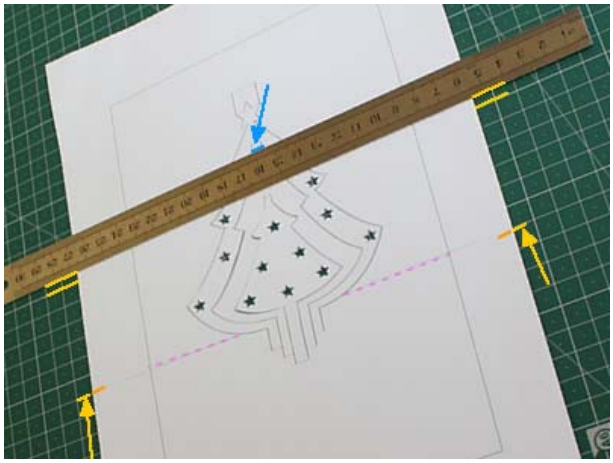


Step7. Handle the mountain fold-lines

✧ If grid-lines are available on the cutting mat, align the **main fold-lines** with a grid-line;

✧ Remember that all **mountain fold-line cuts** must be applied on the **front** side of the **"Pattern Sheet";**

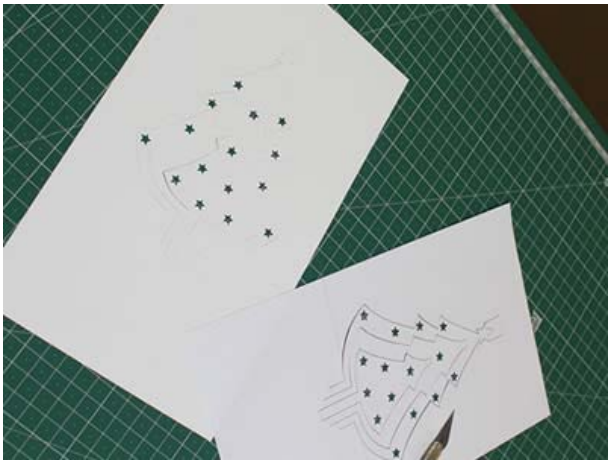
✧ **Half-cut** all the **mountain flow-lines parallel** to the **main fold-lines/** grid-line.



Tip: (viii) A slightly sharp blade is preferred.

Step 8. Cut the green cut-line (“borderline”)

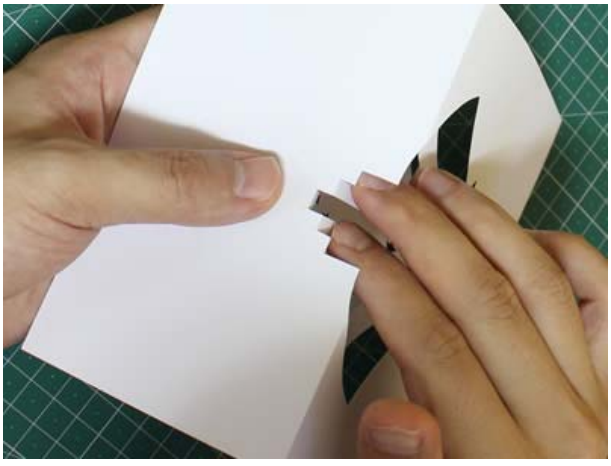
✧ Cut along the **green cut-line** or cut according to your preferred size.

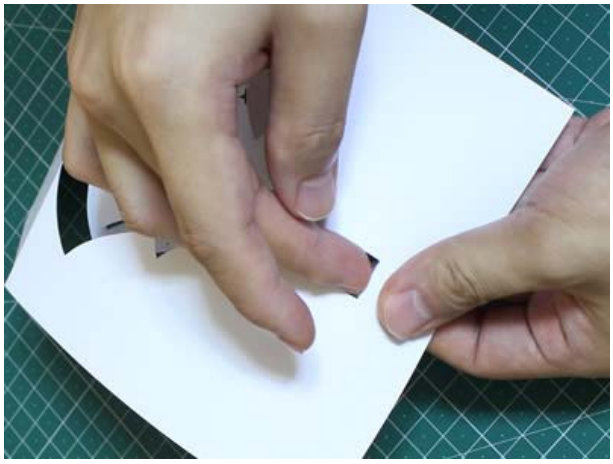


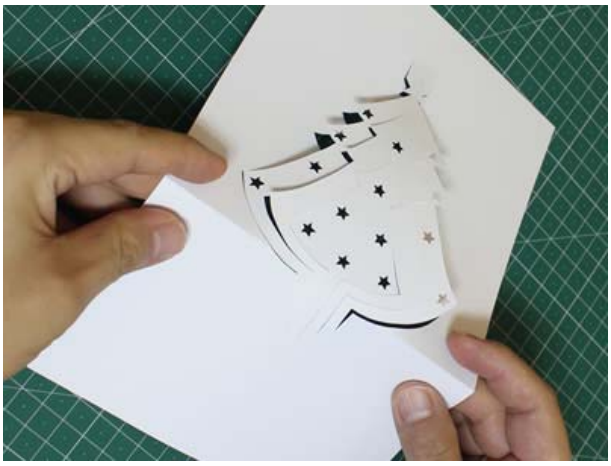
Step 9. Fold the card model

✧ Before starting to fold, make sure that all cuts are well finished and all fold-lines are ready;

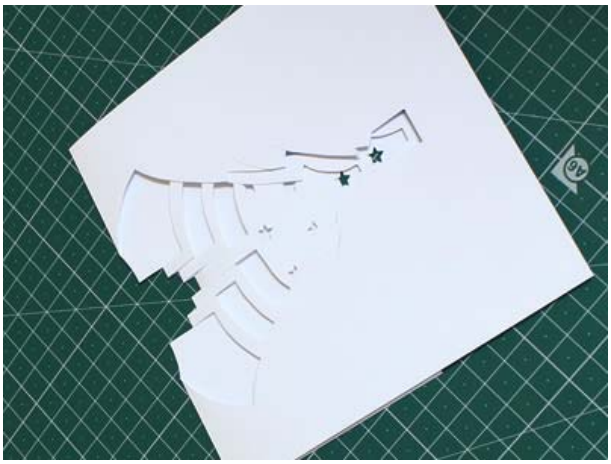
✧ As a preliminary step, try to slightly fold the left(top)-most **valley fold-line(s)**, the right(bottom)-most **valley fold-line(s)** and the **main fold-lines**;





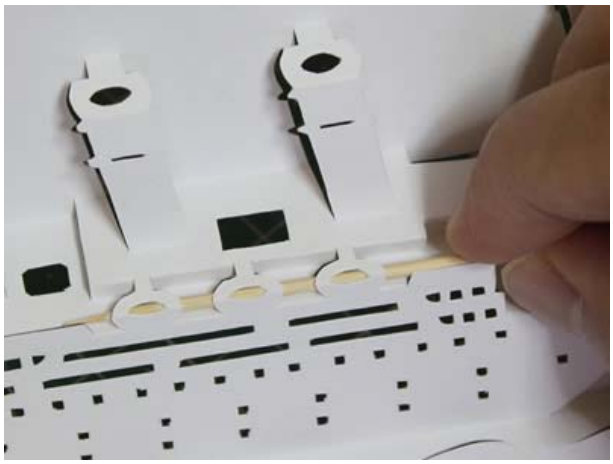


✧ **Patiently** and **gradually** fold all other fold-lines in their respective directions until the card model comes into shape.



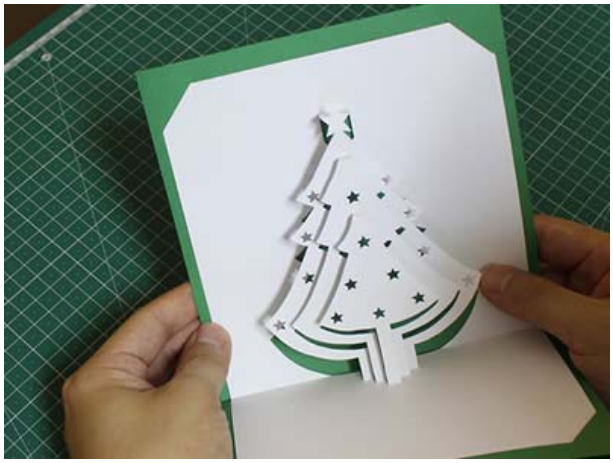
Tip: (ix) Use a pair of tweezers to help folding.

Tip: (x) When two adjacent flow-lines are very close to each other, use a tiny rod to help stabilize the folding direction as shown in the picture below.



Tip: (xi) For some difficult card models, it is necessary to spend one hour or more to fold them in right form.

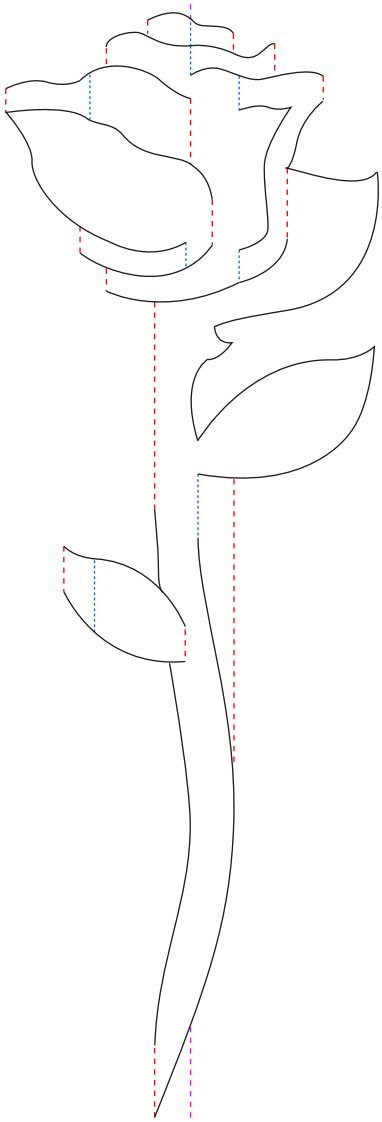
Step 10. Add a piece of “Color Base Paper”



✧ This is to hold firm the card model and also to add contrast to make the artwork more dimensionally appealing.

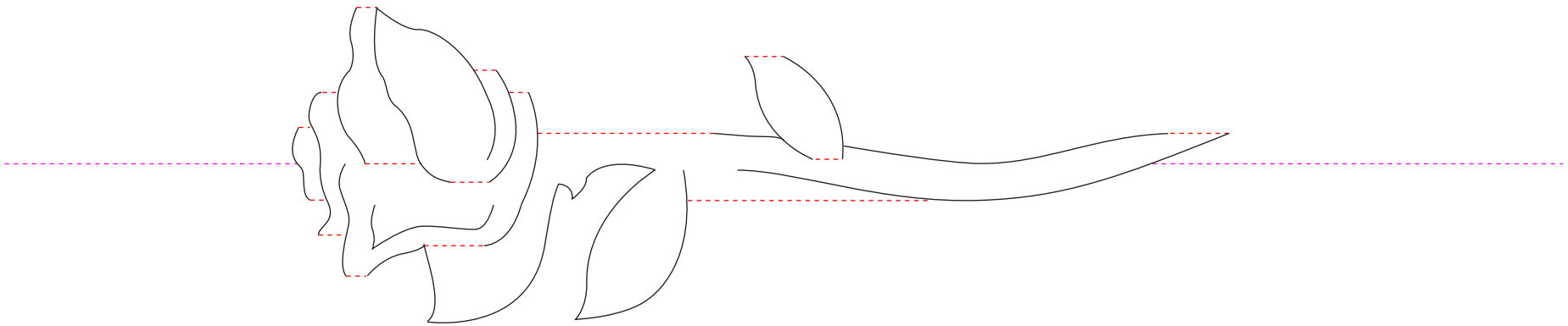
Pattern Sheets of Origamic Architecture

Pattern Sheet



16cm

Valley Fold-lines Pattern Sheet



2. Ballet Girl

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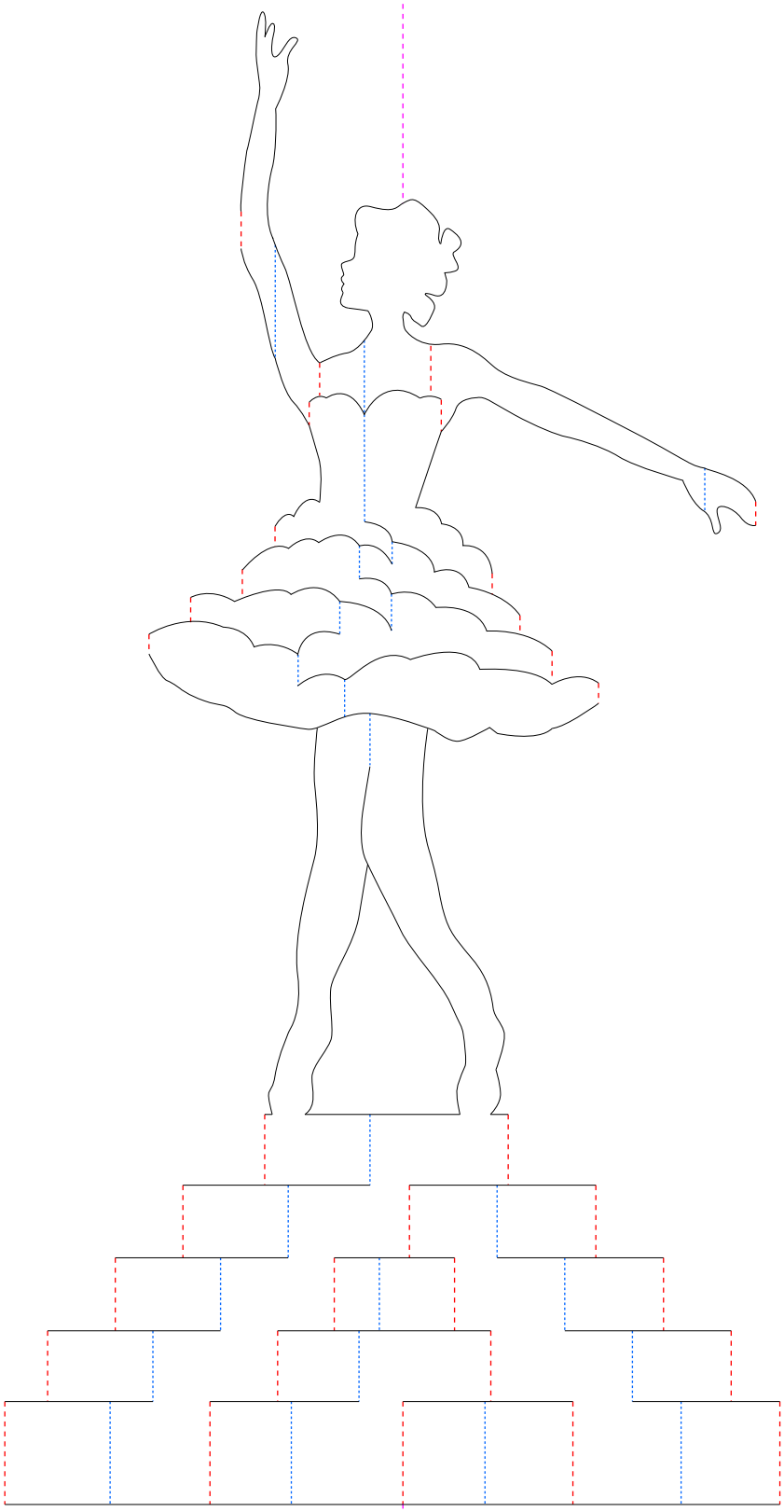

16 cm

Pattern Sheet

Copyrighted material

Valley Fold-lines Pattern Sheet

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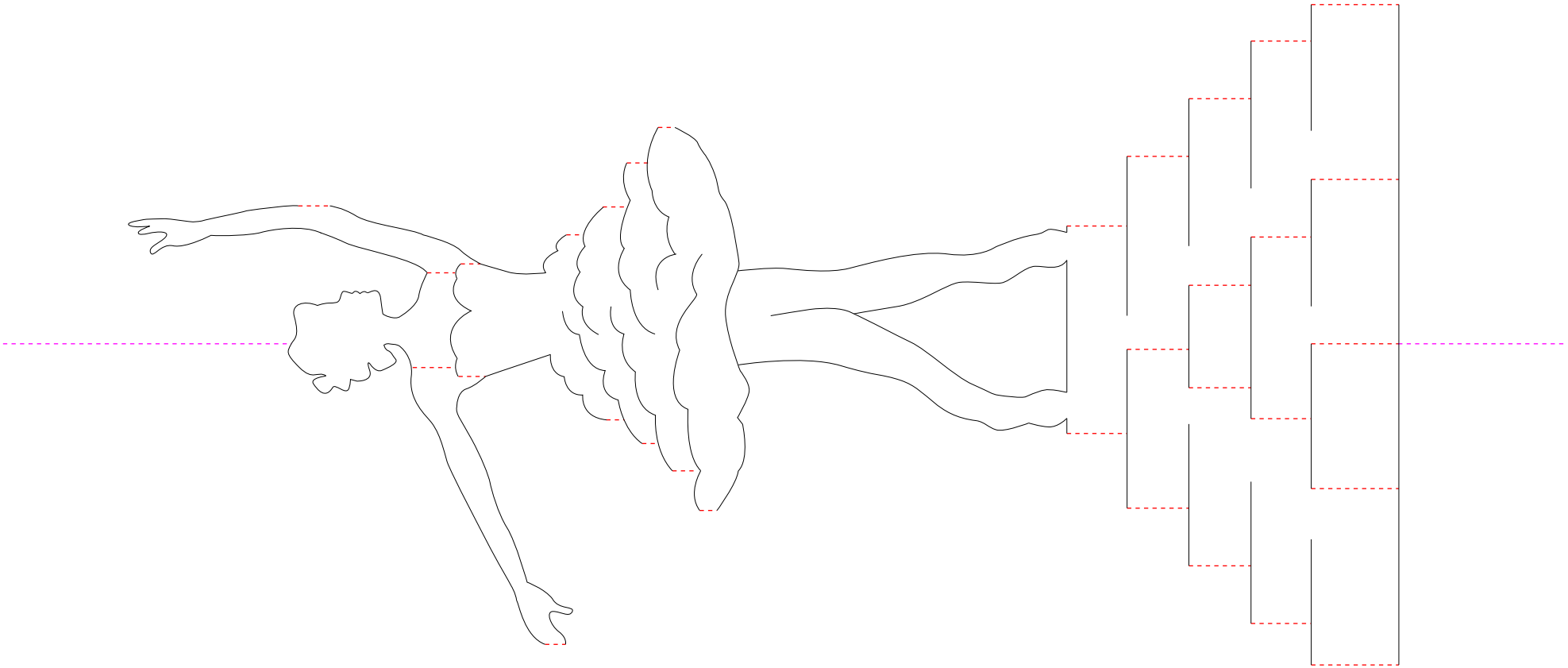

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Instructions for 180° Swans Pop-up Card

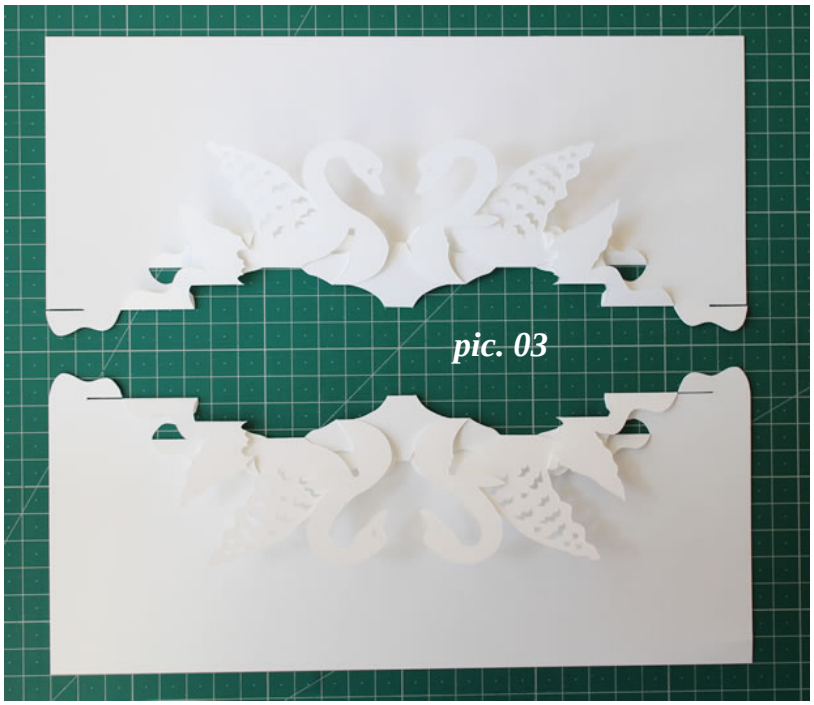
* weight around 160-180gsm card papers recommended.

Step 1. Prepare the finished right and left parts of Swans pop-up card with all fold-lines position half-cut. *(see pic. 01 and pic. 02)*

pic. 01

pic. 02

Step 2. For each part, fold all the fold-lines in their respective directions until the card model comes into shape. *(see pic. 03)*



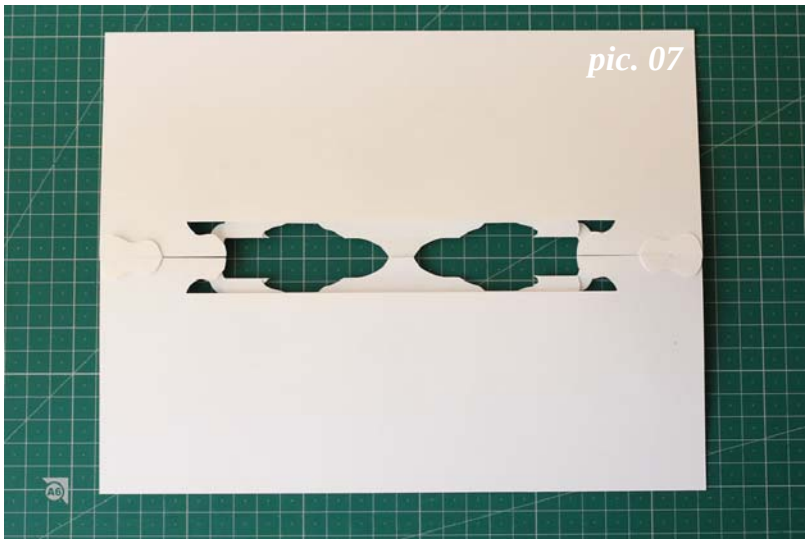
Step 3. Interlock LA and RA together. *(see pic. 04 - pic. 06)*

pic. 05

pic. 06

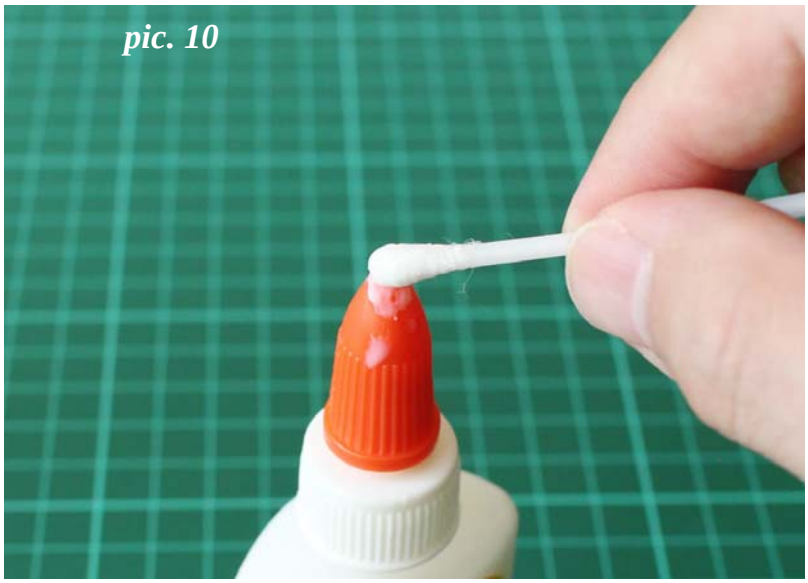
Interlock LB and RB together.

It should look like this after step 3 is finished. *(see pic. 07 – pic. 09)*

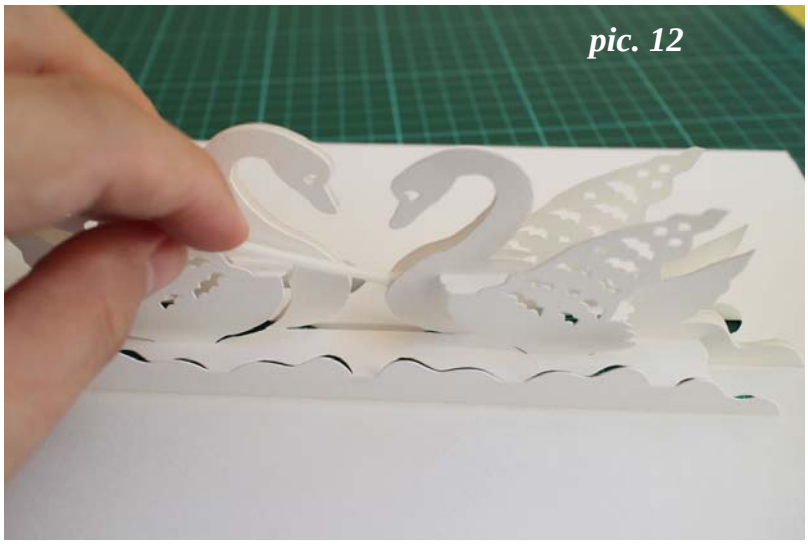


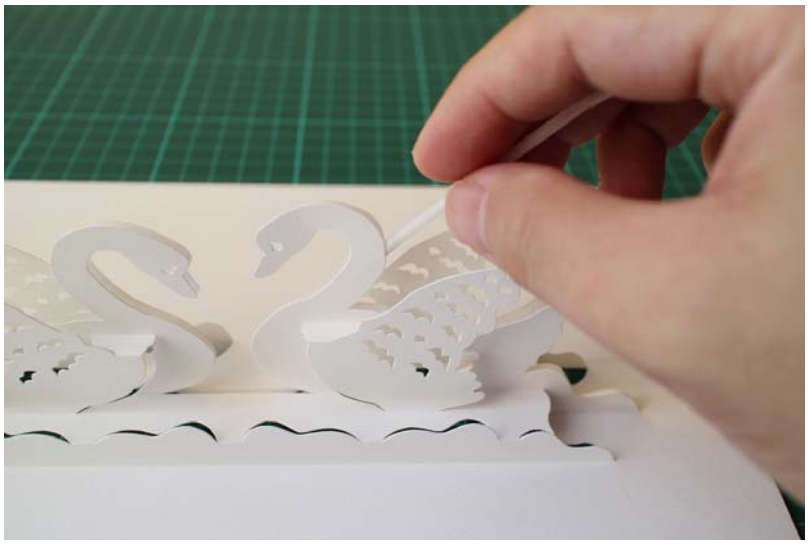
pic. 07

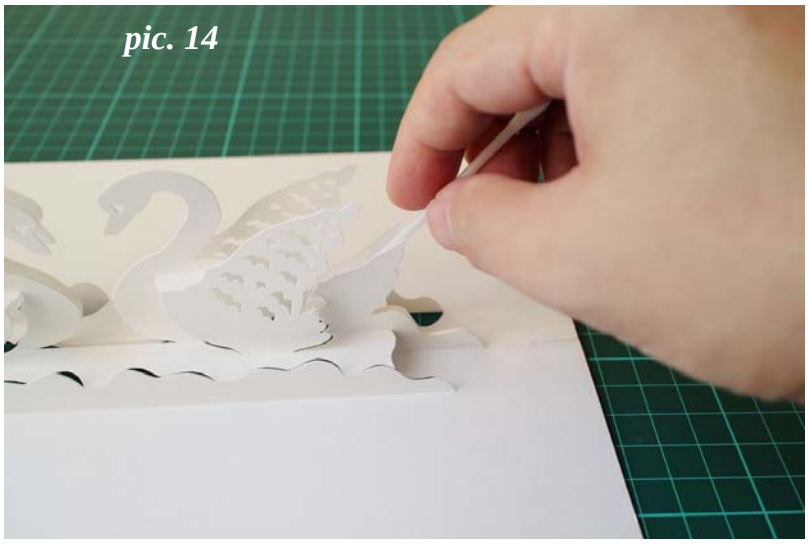
Step 4. Fix the positions of the two parts by a clip if needed; Apply a thin layer of white glue between the two parts to join them together. *(see pic. 10 - pic. 15)*


pic. 10

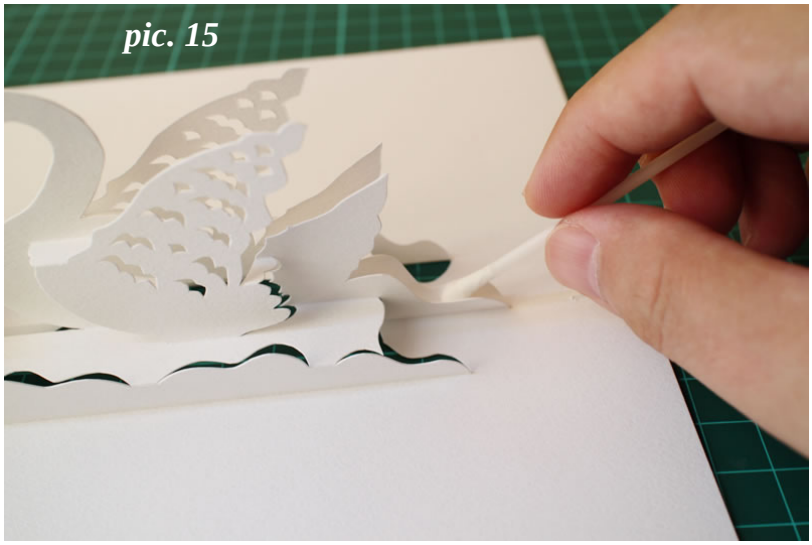
pic. 11


pic. 12





pic. 14

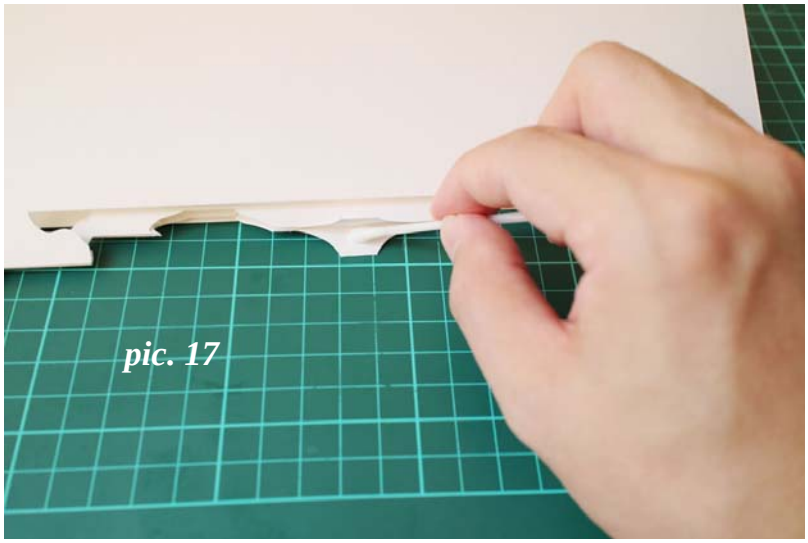


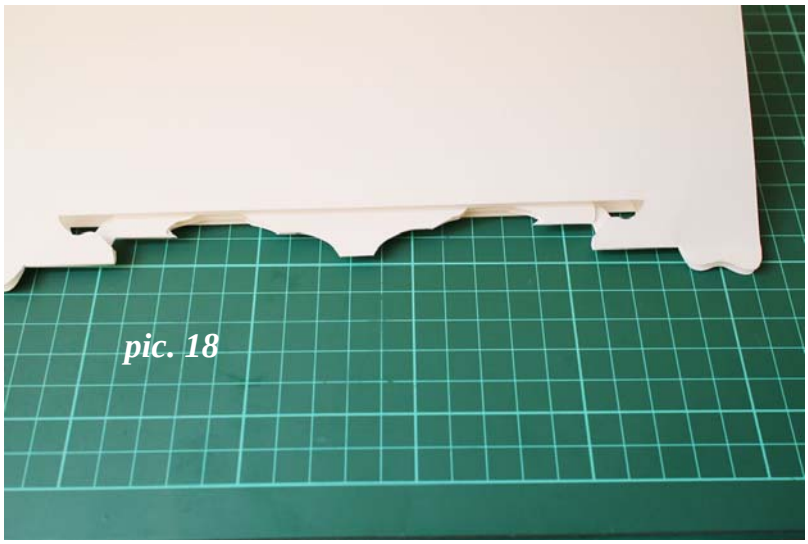
pic. 15

It should look like this after step 4 is finished. *(see pic. 16)*

Step 5. Repeat step 4 for the other side.

Step 6. Apply a thin layer of white glue on the bottom area to join the two parts together. *(see pic. 17 and pic. 18)*





then unfold *(see pic. 19)*

End

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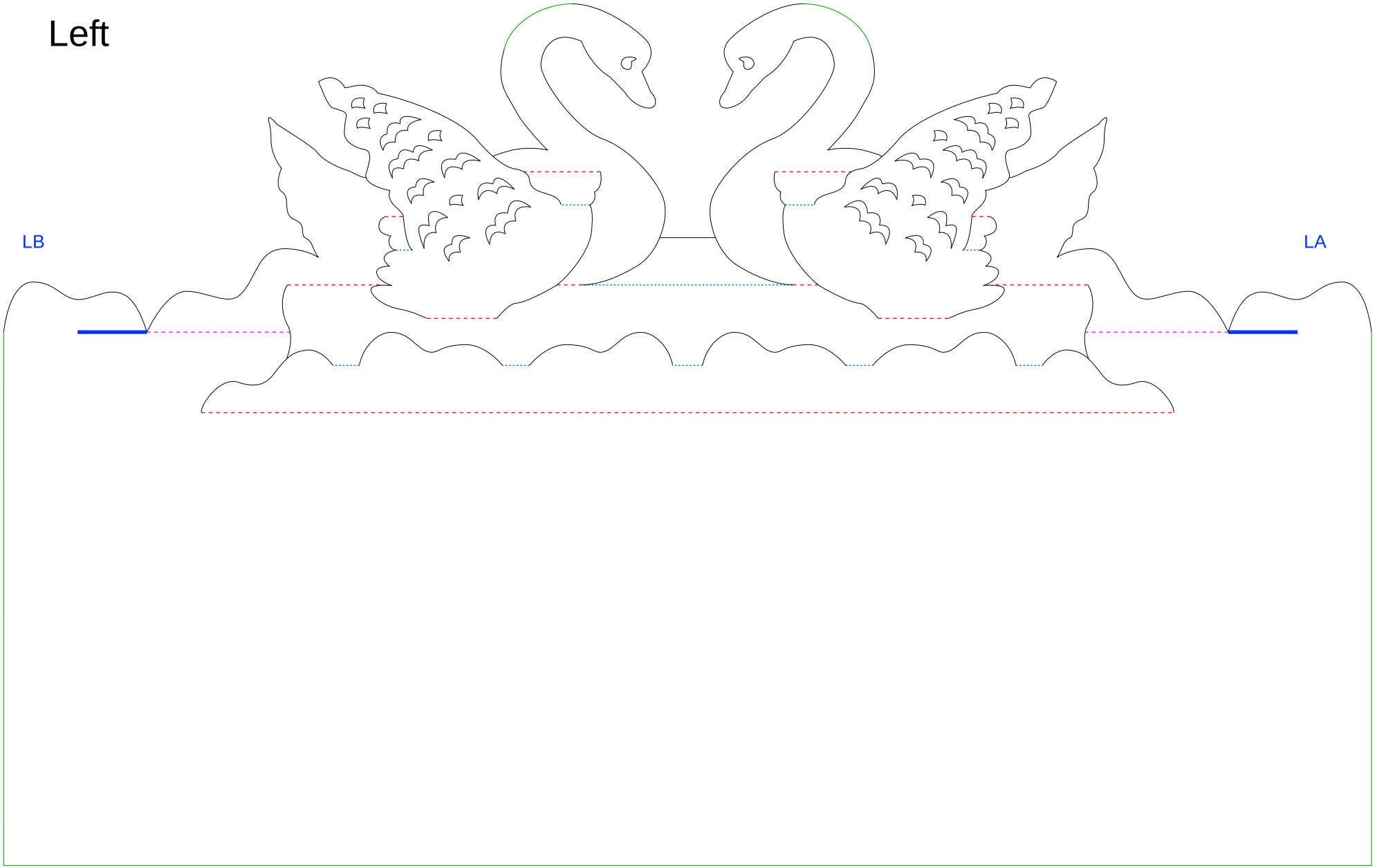
Left



Valley Fold-lines Pattern Sheet

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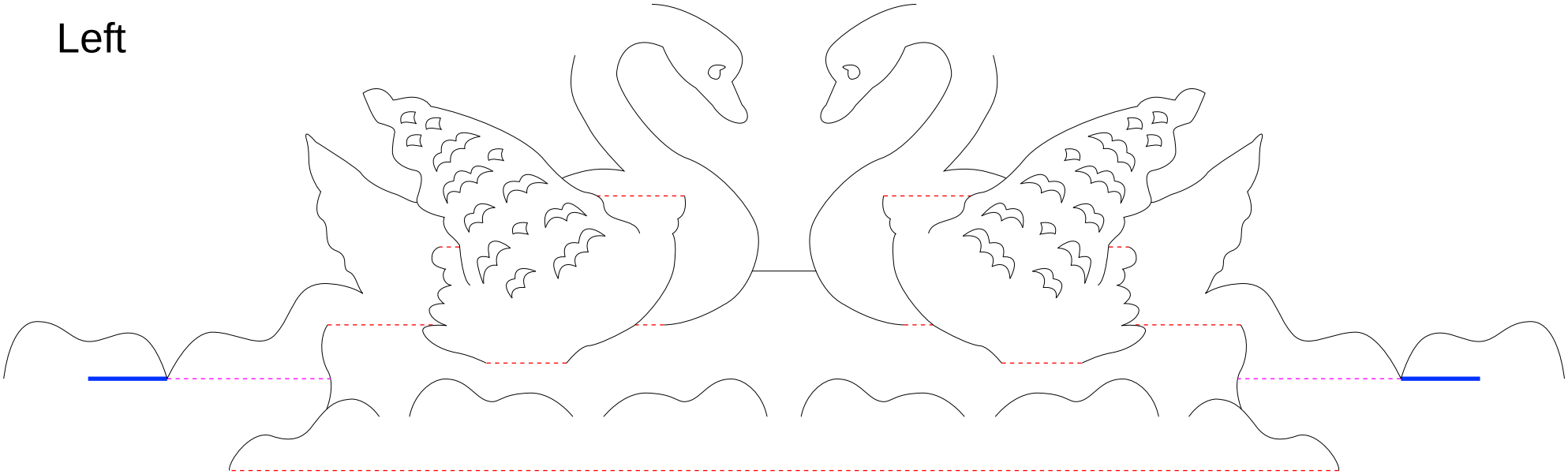
Left



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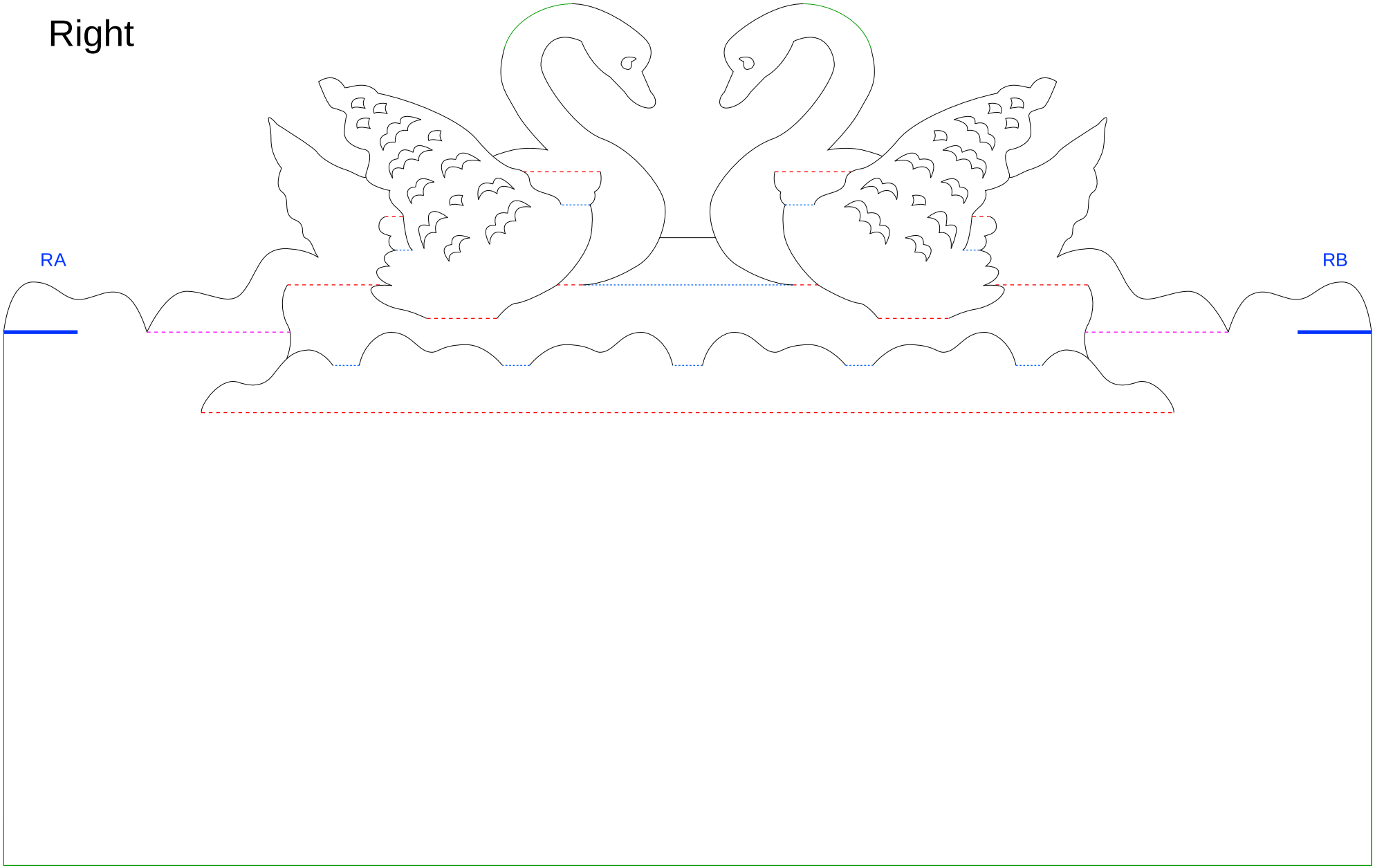
Right



Valley Fold-lines Pattern Sheet

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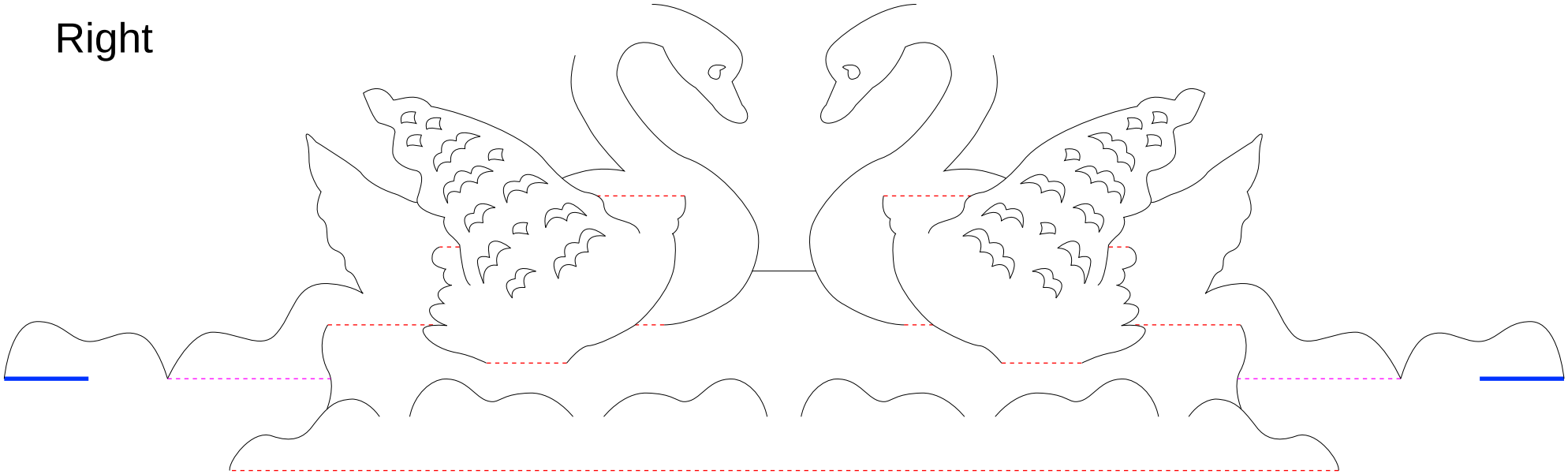
Right



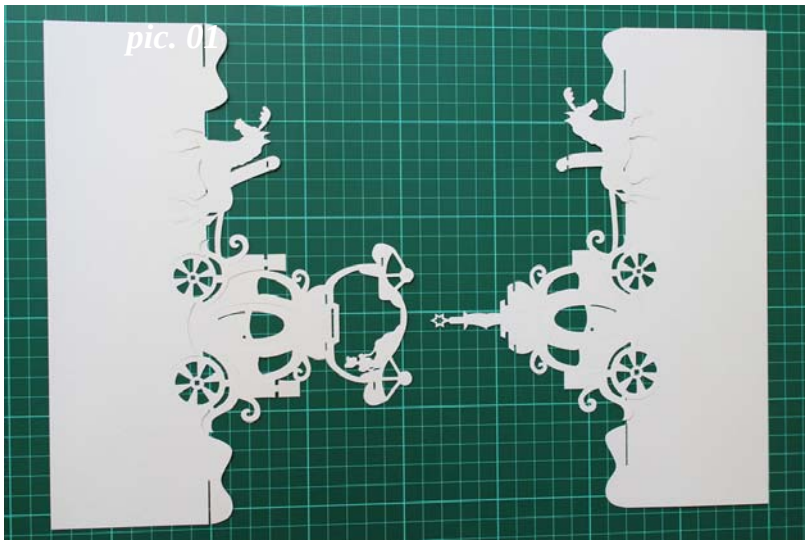
4. 180°Carriage

Copyrighted Material

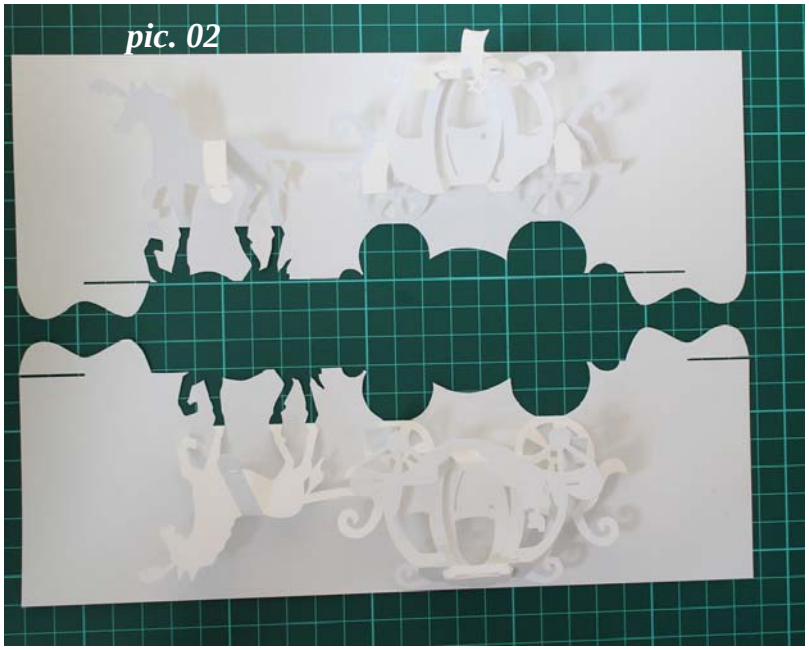
Instructions for 180° Carriage Pop-up Card

* weight around 180gsm card papers recommended.

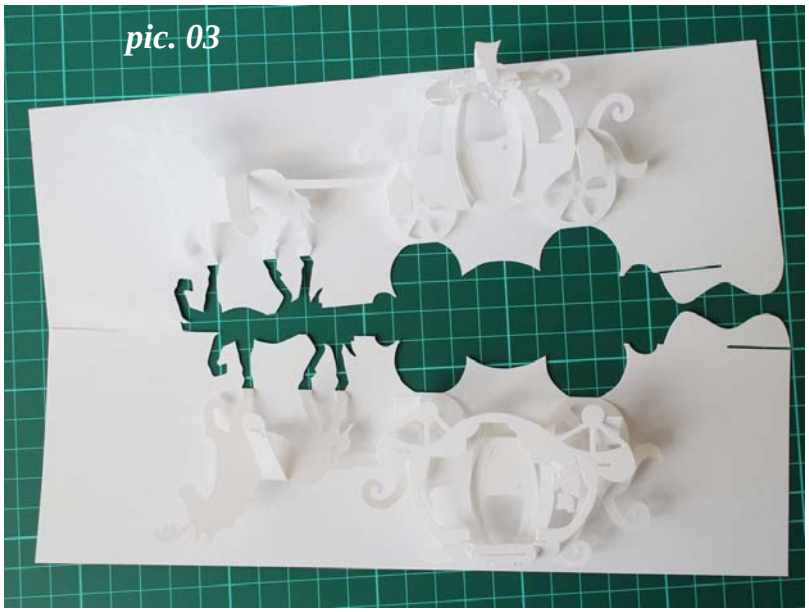
Step 01. Prepare the left and right parts of the Carriage card with all the fold-lines position half-cut. *(see pic. 01)*



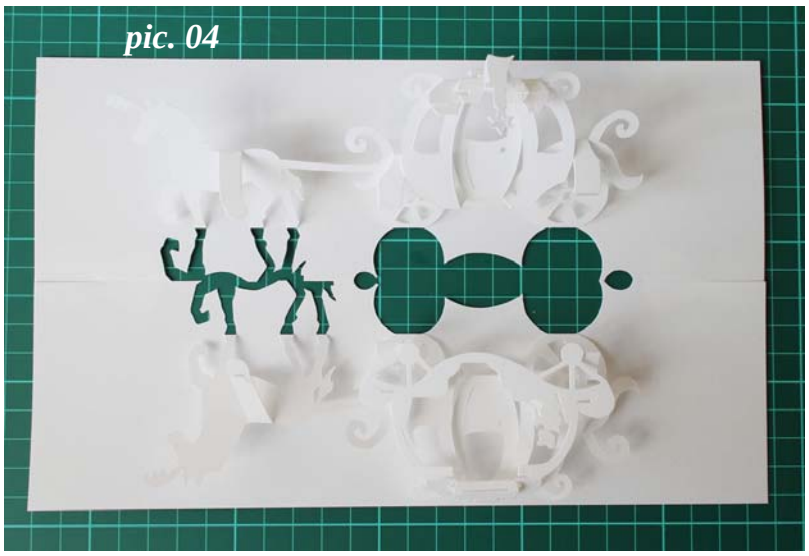
Step 2. For each part, fold all fold-lines in their respective directions until the card model comes into shape. *(see pic. 02)*

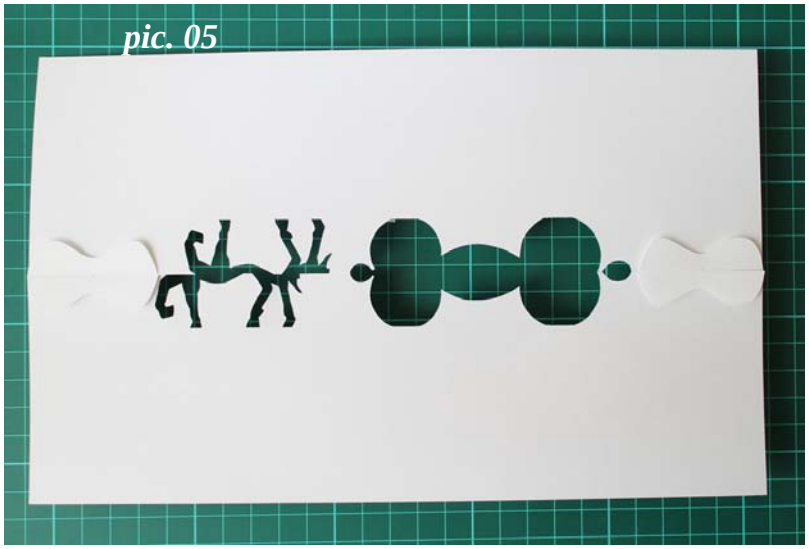


Step 3. Interlock LA and RA together. Then, interlock LB and RB together. *(see pic. 03)*



It should look like this after step 3 is finished. *(see pic. 04 and pic. 05)*



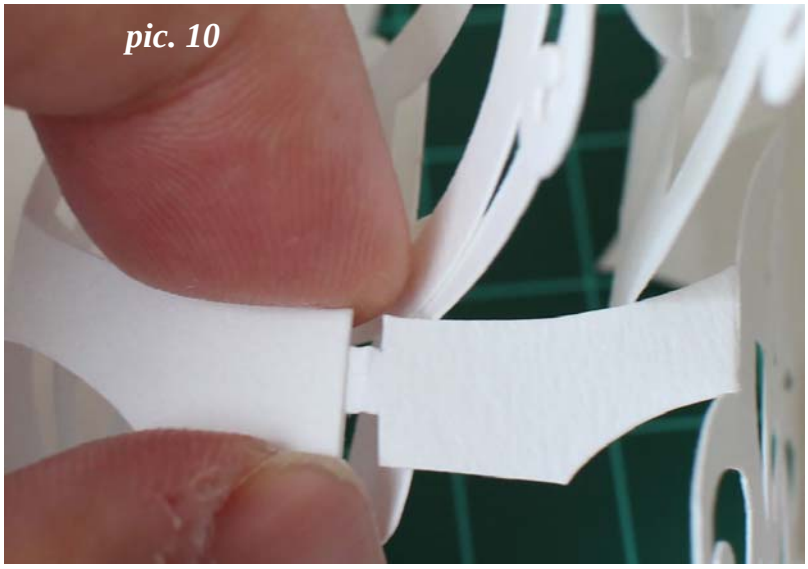


Step 4. Interlock LC and RC together. *(see pic. 06 and pic. 07)*

Step 5. Apply a thin layer of white glue on Area J1 to join the two parts together. *(see pic. 08 - pic. 11, **diagram 1**)*

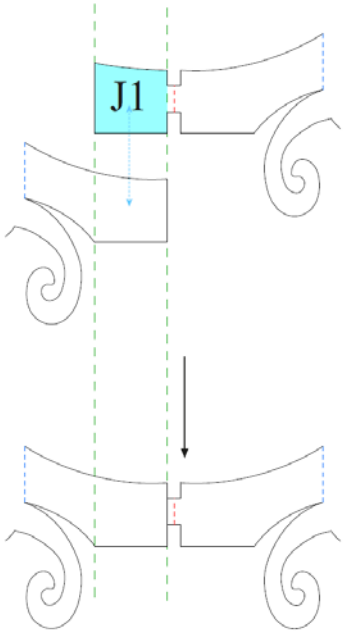
pic. 08

pic. 09



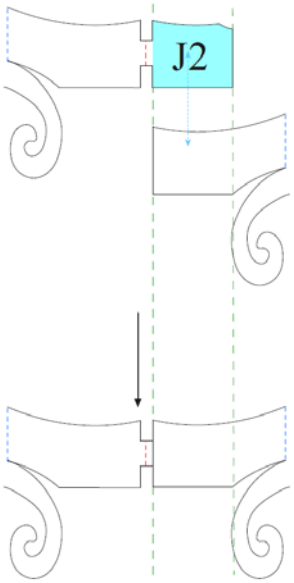
pic. 10

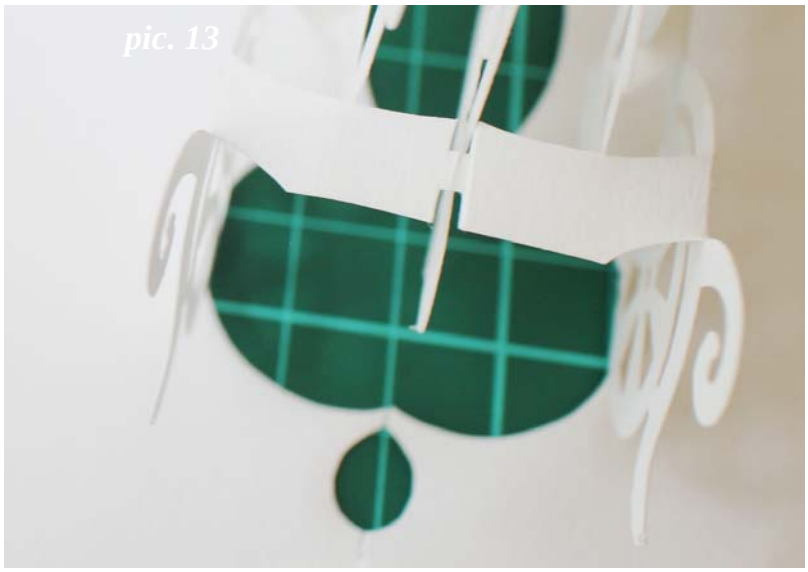
diagram 1

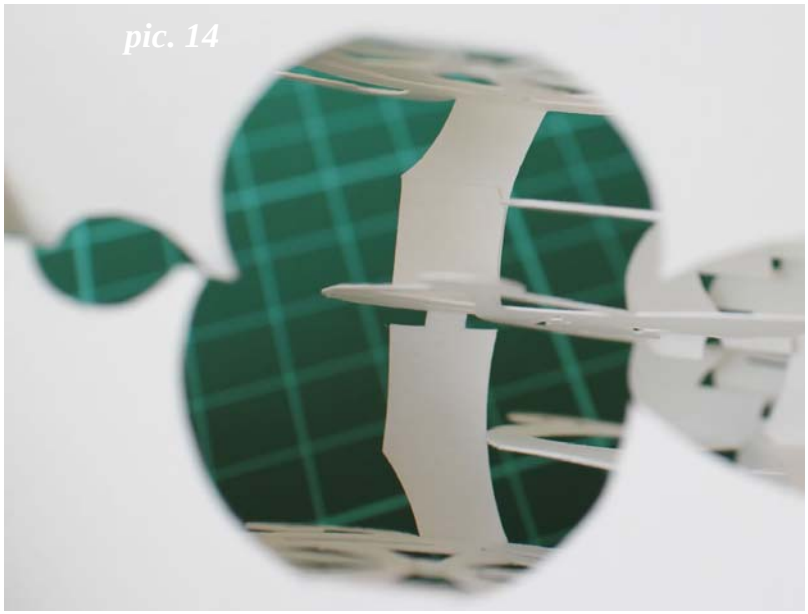


Step 6. Apply a thin layer of white glue on Area J2 to join two parts together. *(see pic. 08, pic. 12 - pic. 14,* ***diagram 2*** *)*

diagram 2





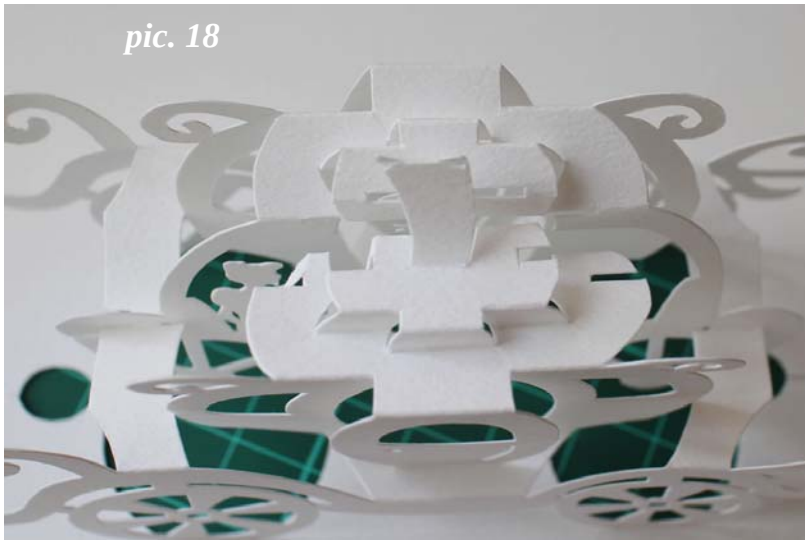


Step 7. Interlock LD1 and LD2 together. *(see pic. 15)*

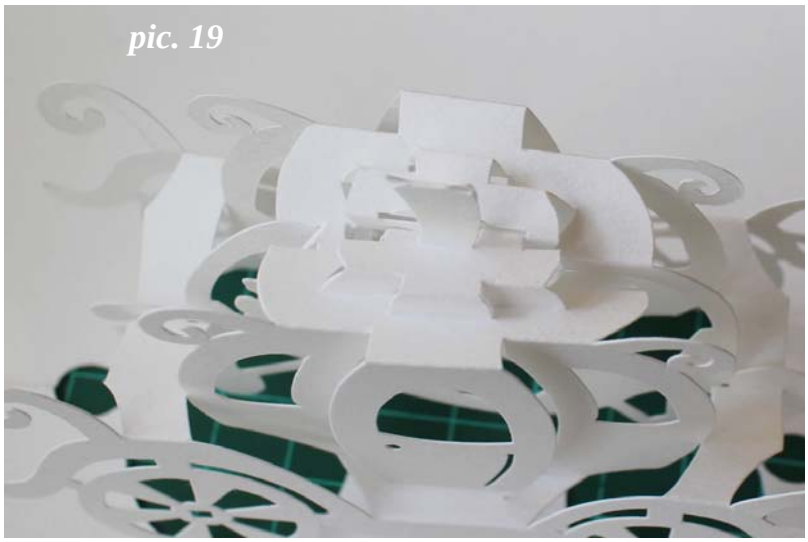
Step 8. Interlock LE1 and LE2 together. *(see pic. 16)*

Step 9. Insert position “Star” into LF. *(see pic. 17)*

Step 10. Interlock LF and RF together *(see pic. 18 - pic. 23)*



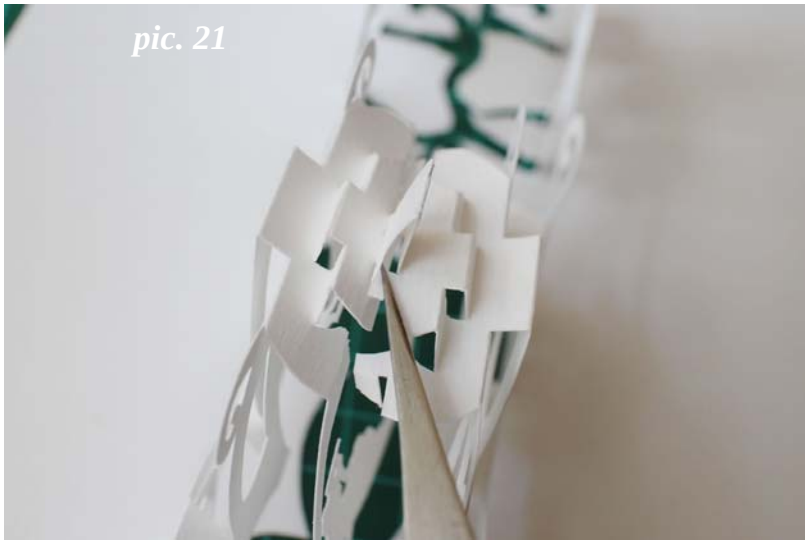
pic. 18



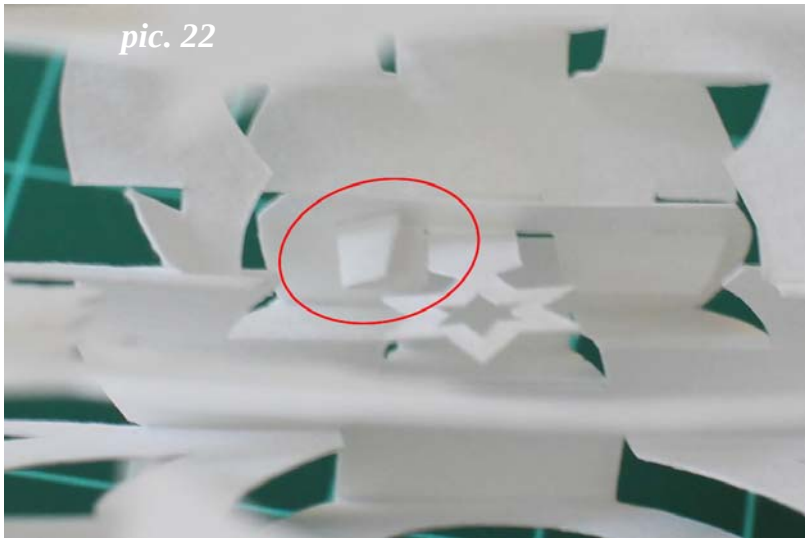
pic. 19

pic. 20

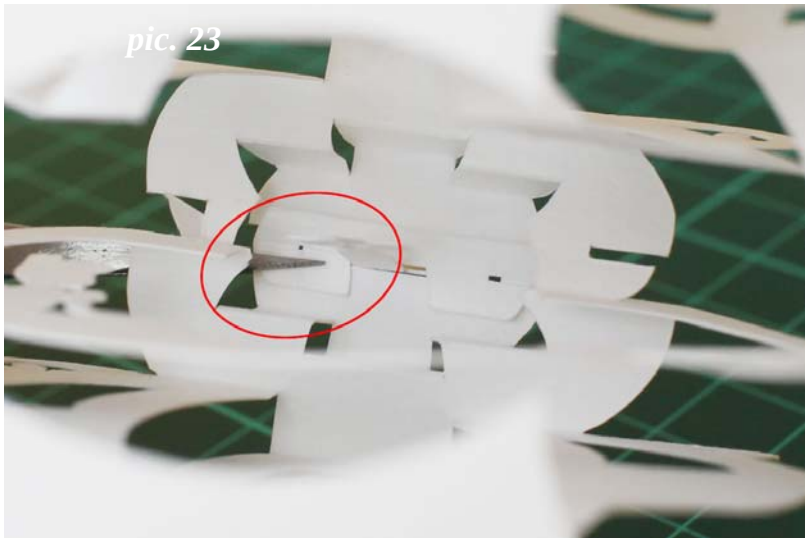
Fold and unfold along fold-line ”**rf**” as shown. *(see pic. 21 - pic. 23)*



pic. 21

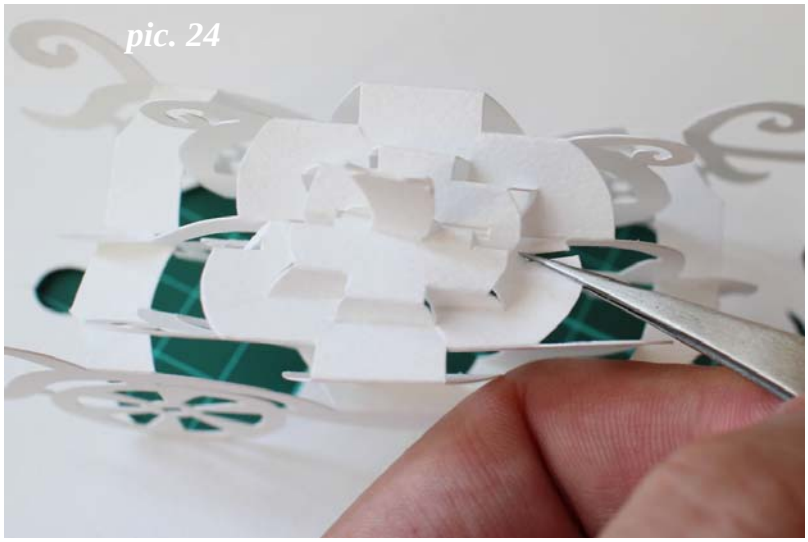


pic. 22



pic. 23

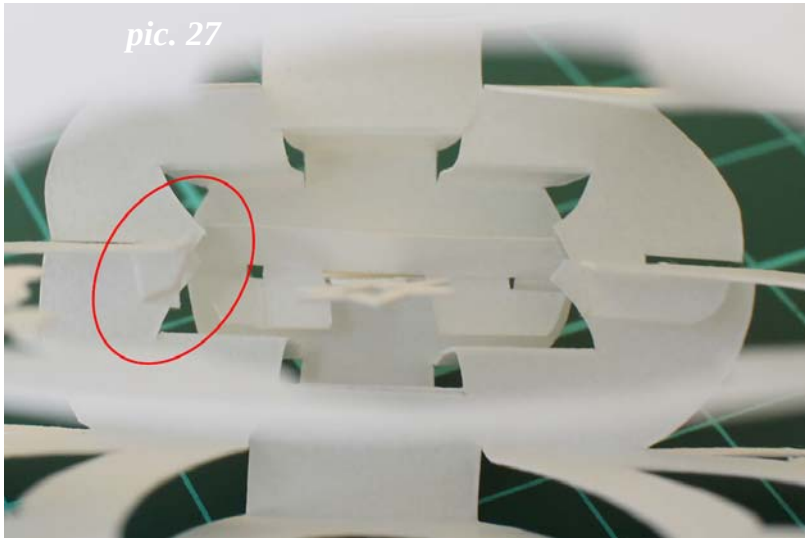
Step 11. Interlock LG and RG together *(see pic. 24 and pic.28)*

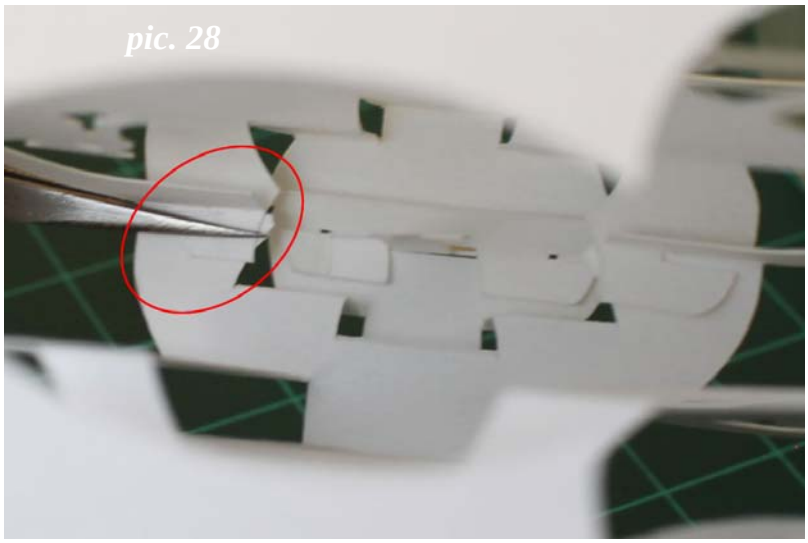

pic. 24

pic. 25

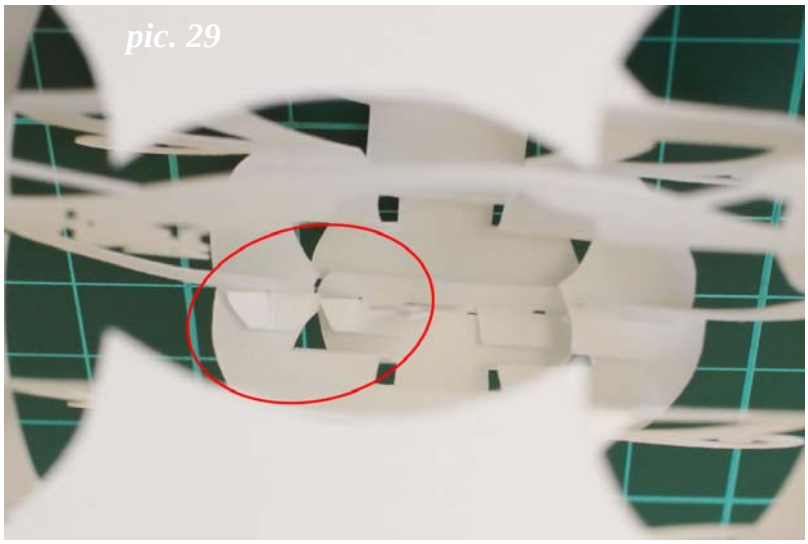
Fold and unfold along fold-line "**rg**" as shown. *(see pic. 26 - pic. 28)*

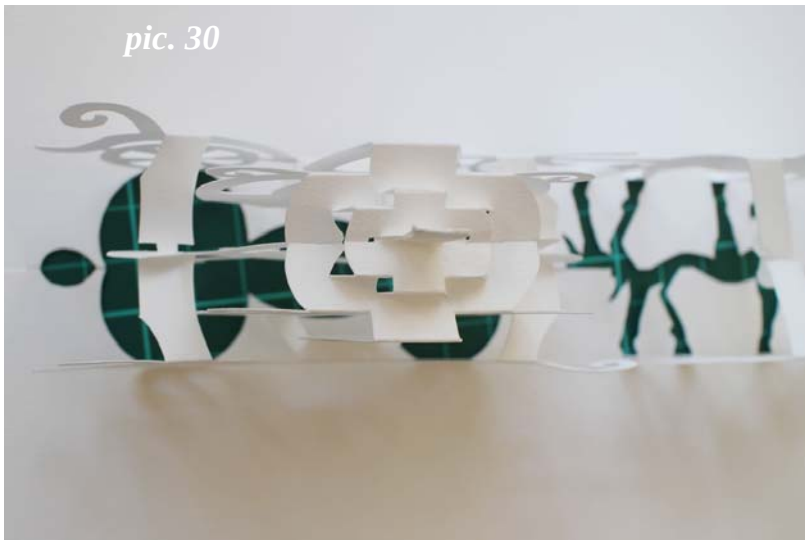
pic. 26



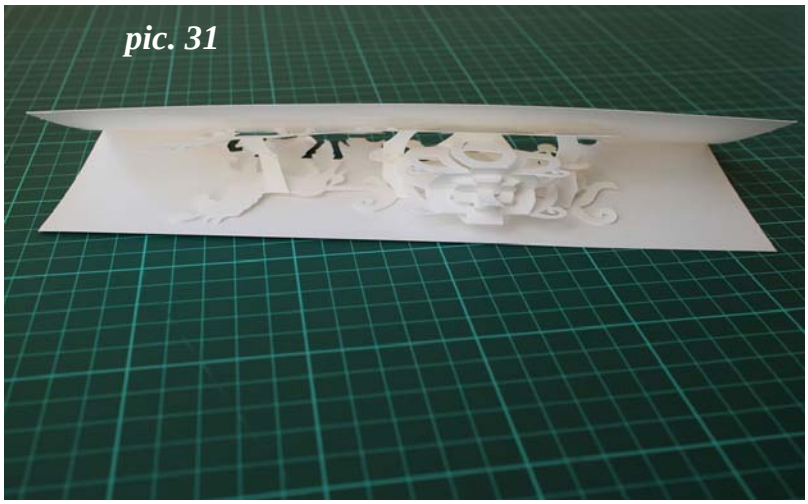


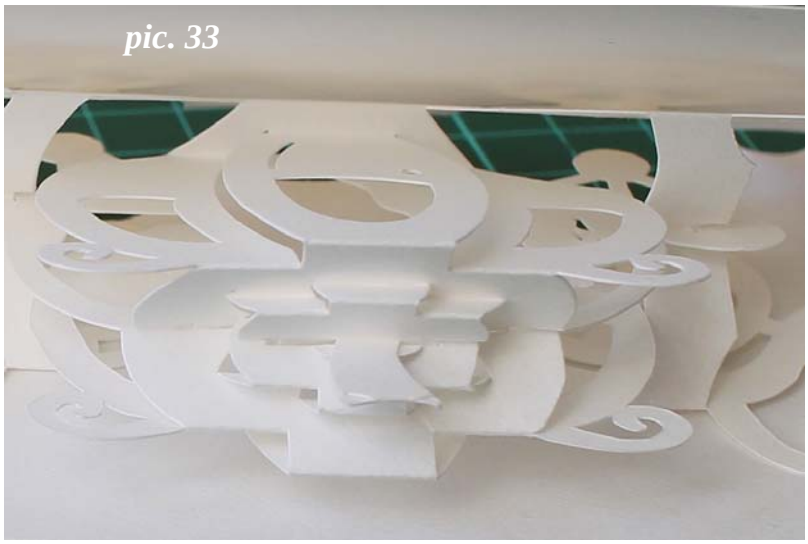
It should look like this after step 10 and step 11 is finished. *(see pic. 29 - pic.30)*



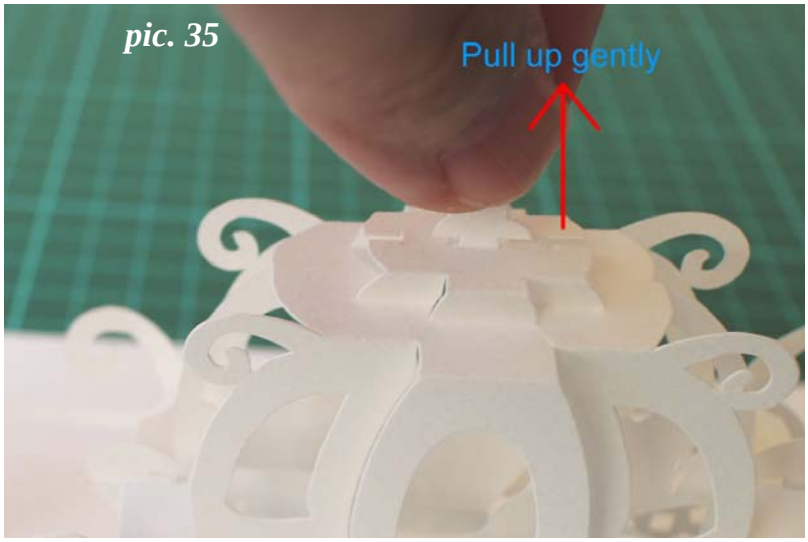


then fold *(see pic. 31- pic. 33)*





The pop-up model displays much better by pulling up the top position as shown. *(see pic. 34 – pic.36)*

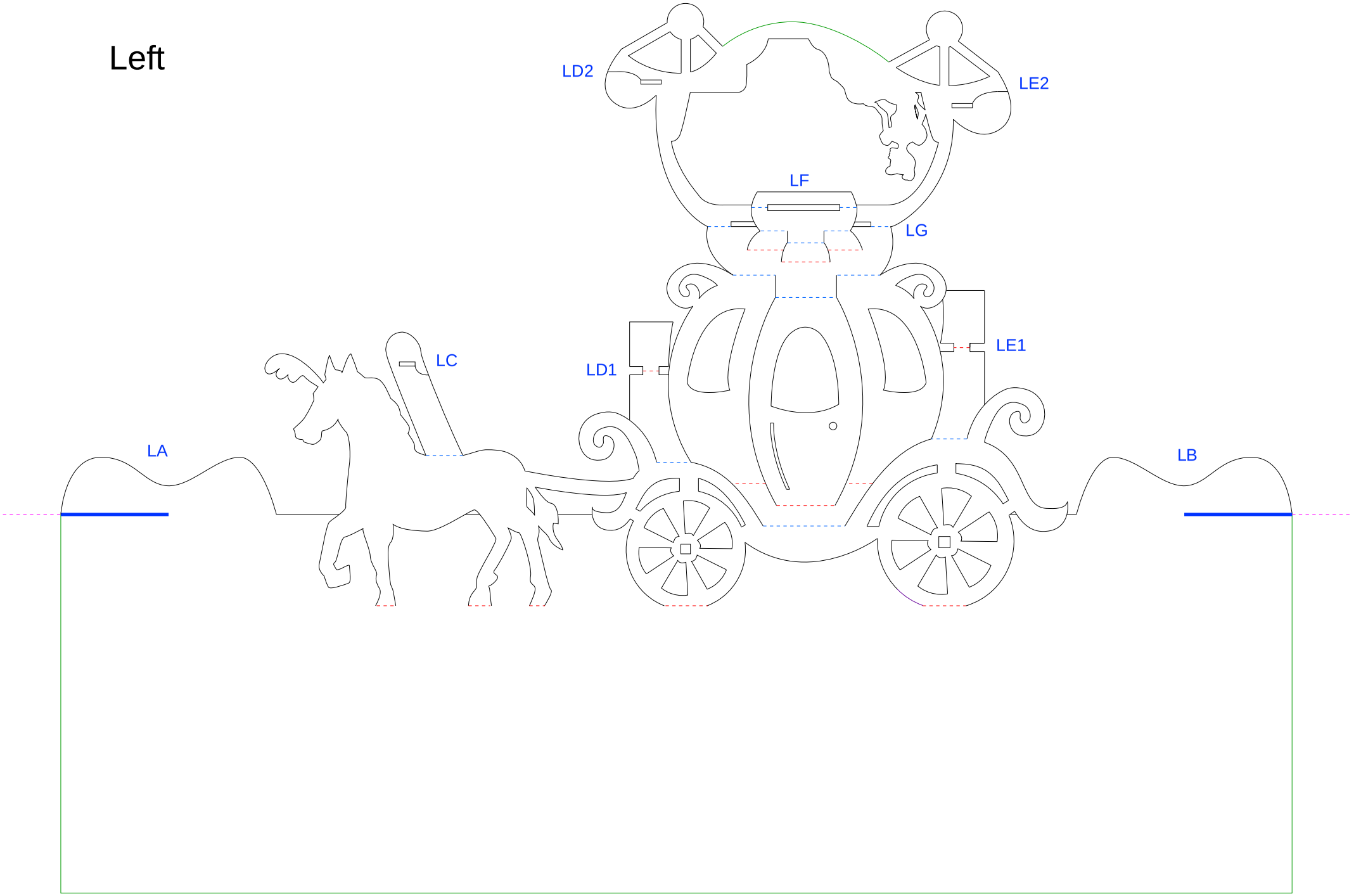


End

Pattern Sheet

Copyrighted material

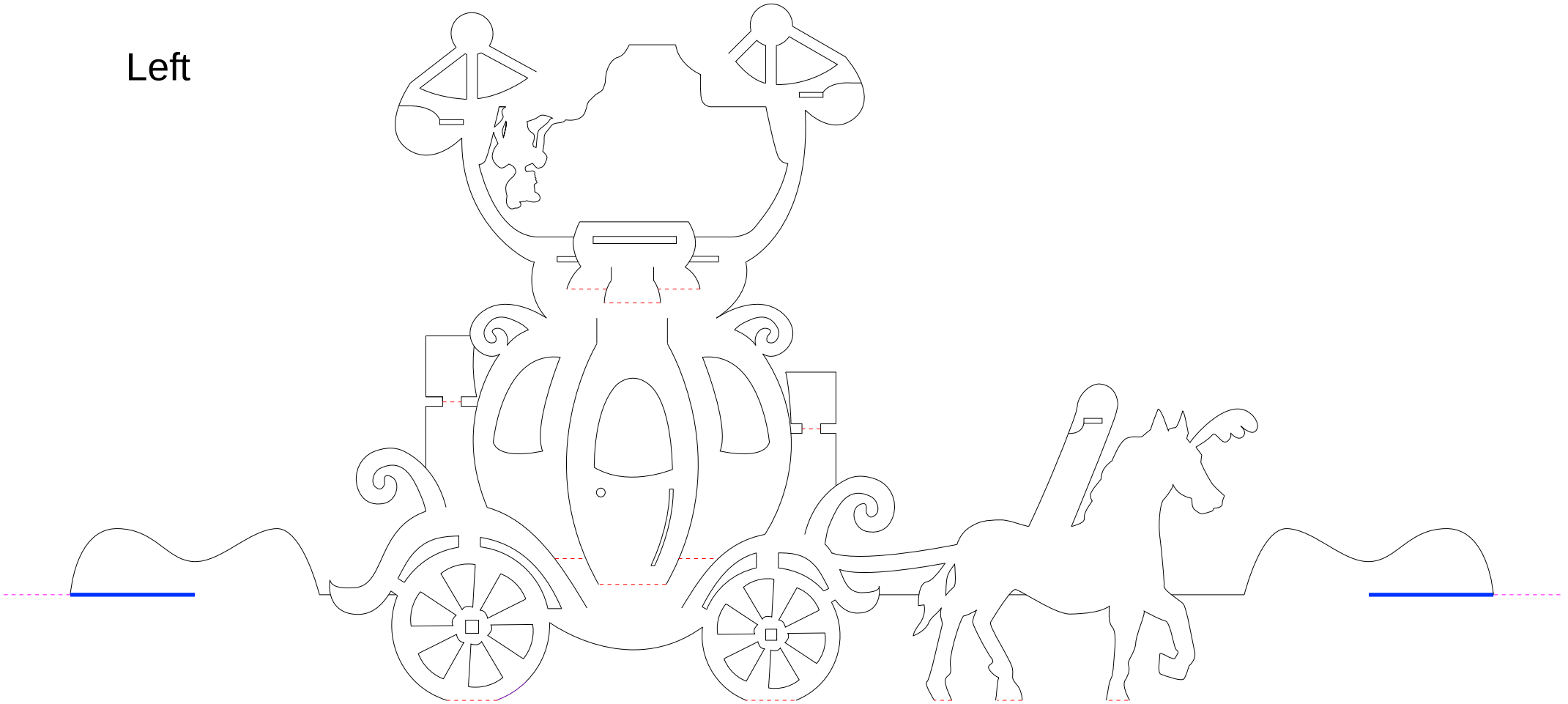
Left



Valley Fold-lines Pattern Sheet

Copyrighted material

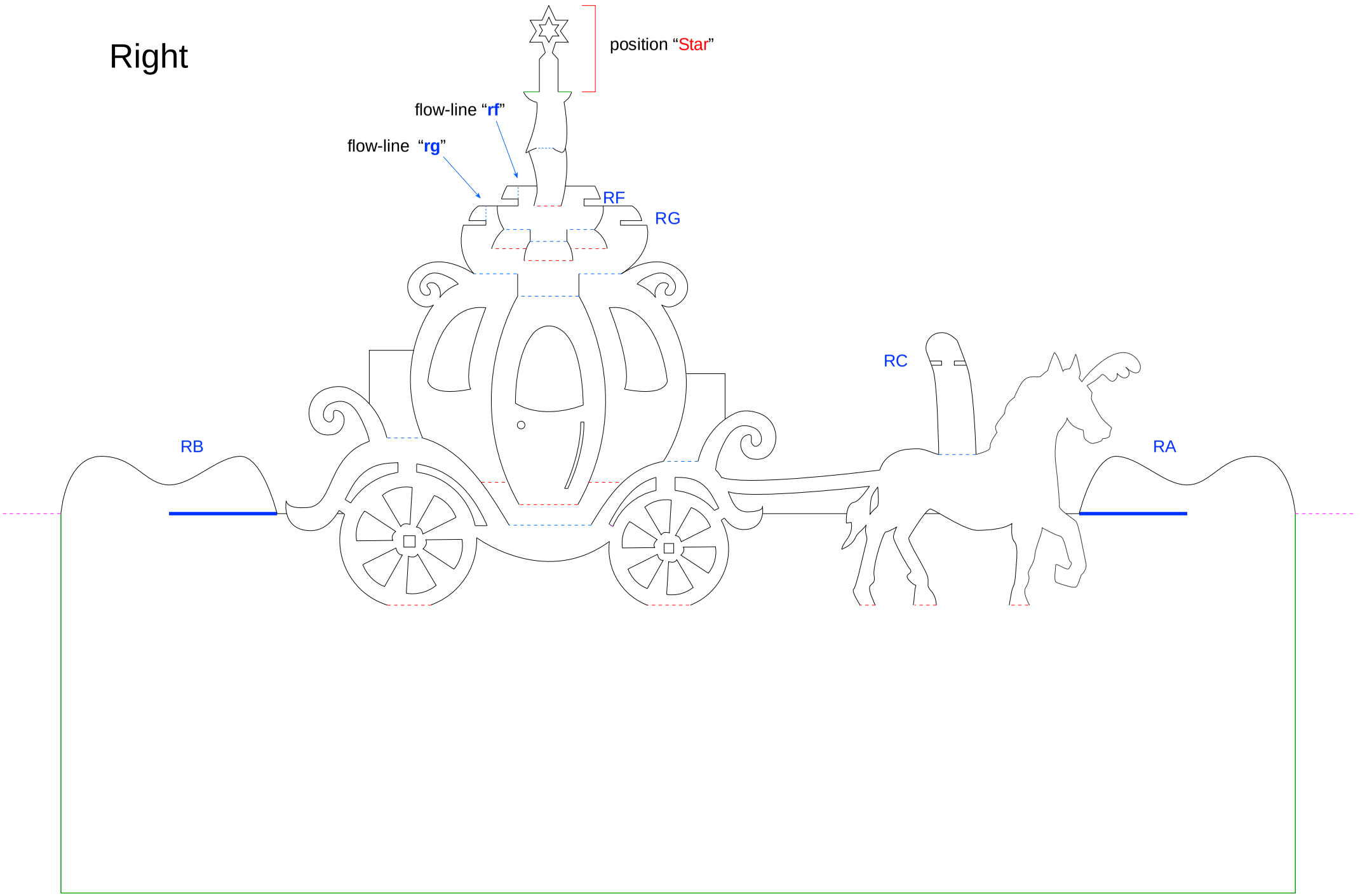
Left



Pattern Sheet

Copyrighted material

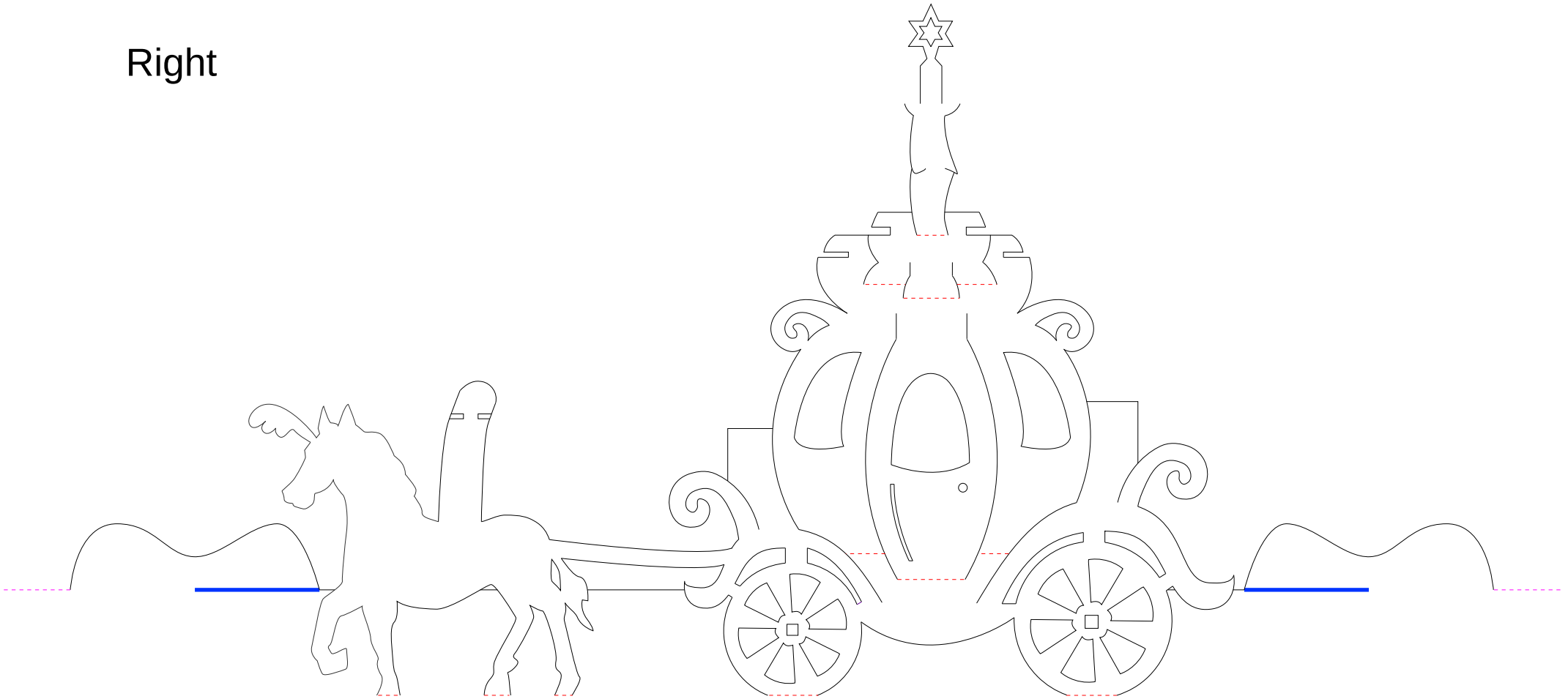
Right



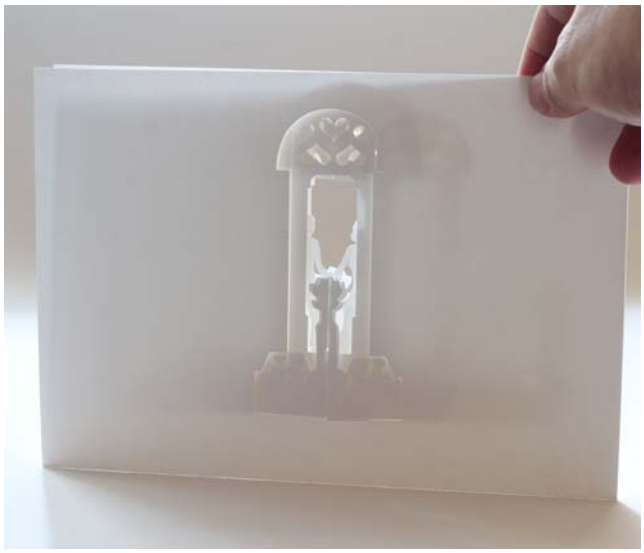
Valley Fold-lines Pattern Sheet

Copyrighted material

Right

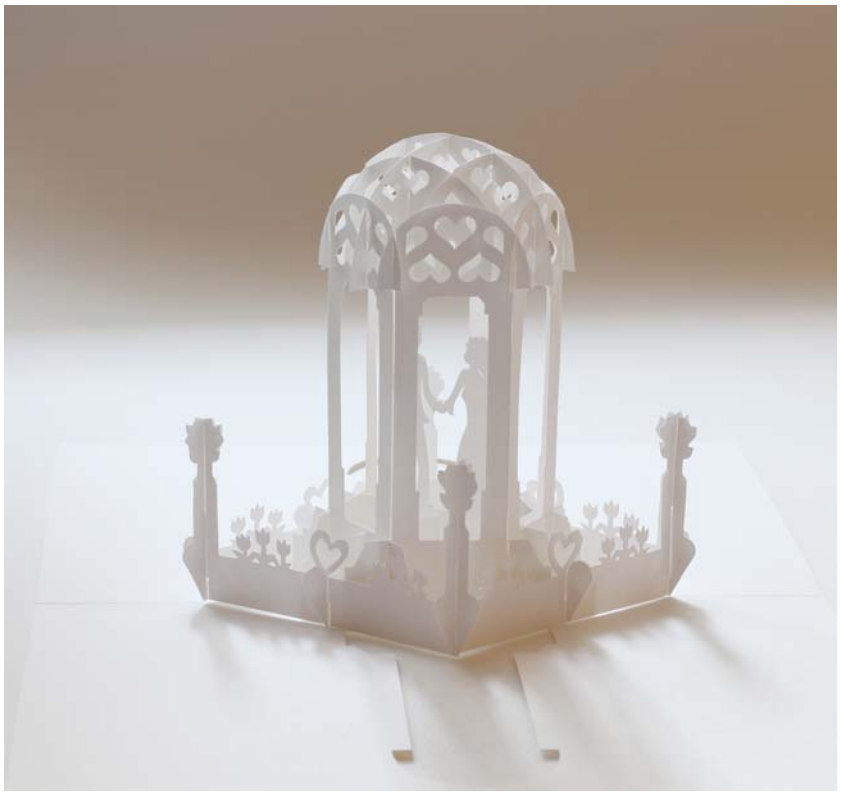


5. Wedding Pavilion



Copyrighted Material

5. Wedding Pavilion



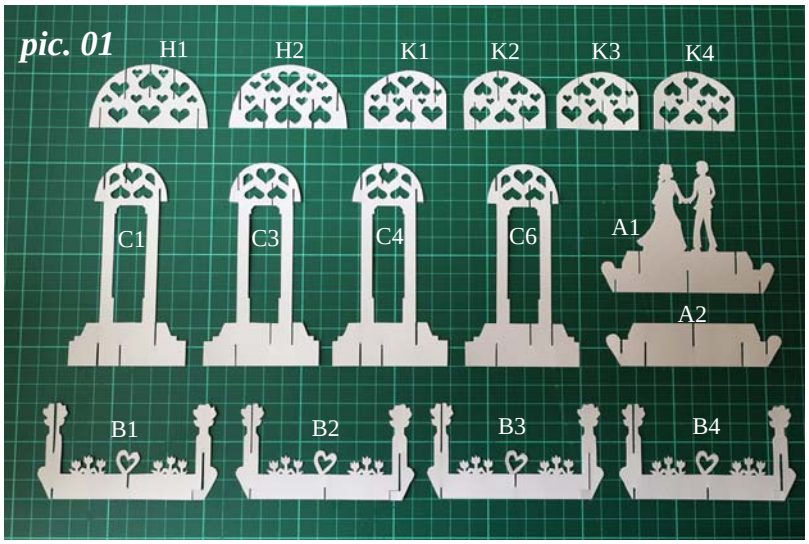
Copyrighted Material

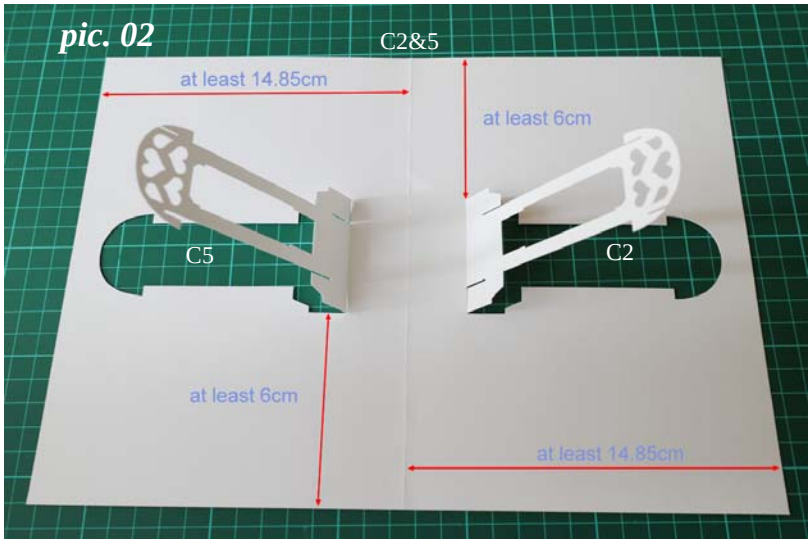
Instructions for Wedding Pavilion Pop-up Card

* weight around 180gsm card papers recommended.

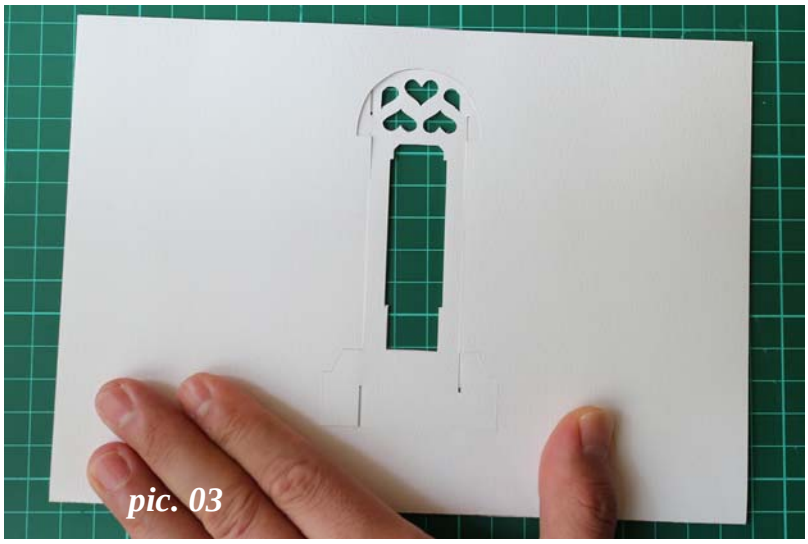
Parts:

A× 2, **B** × 4, **C** × 5, **H** × 2, **K**× 4. *(see pic. 01 and pic. 02)*

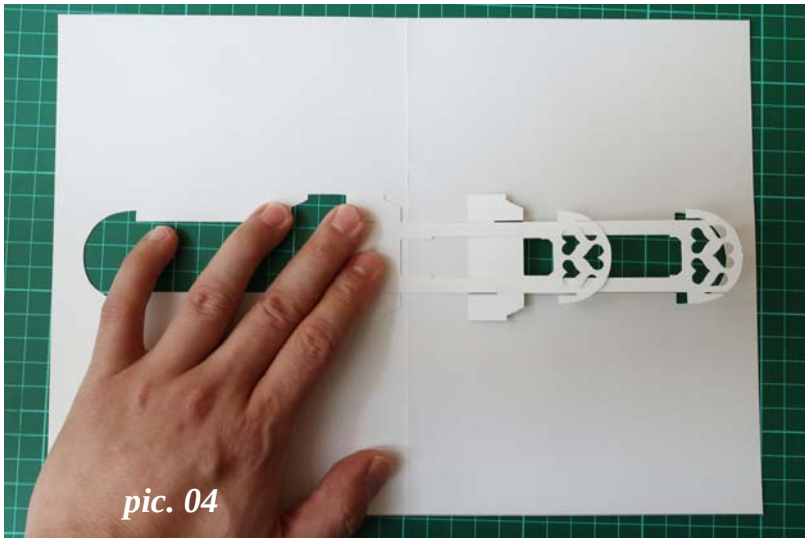




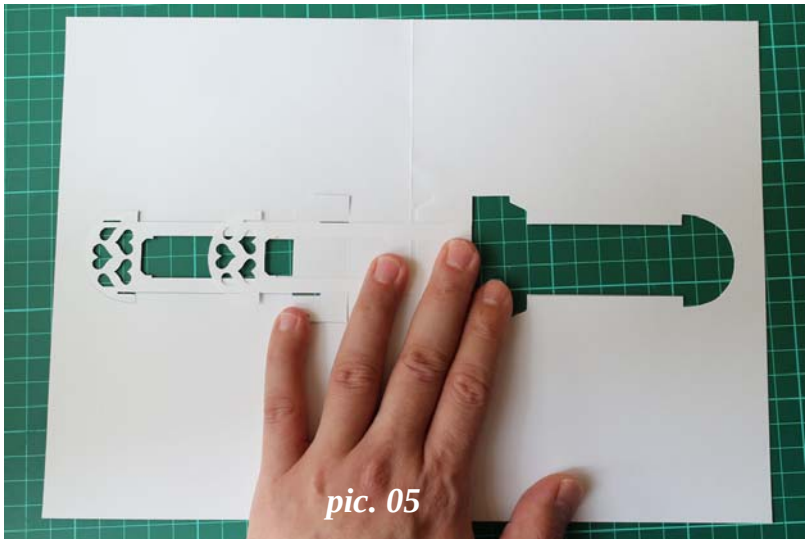
Fold and unfold Part **C2&5** along all the valley fold lines as shown. *(see pic. 03 - pic. 05)*



pic. 03



pic. 04



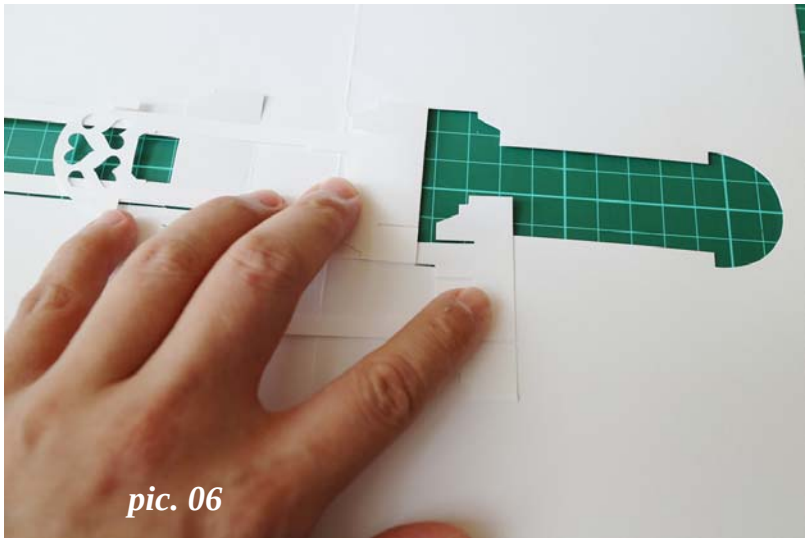
pic. 05

Interlocking steps:

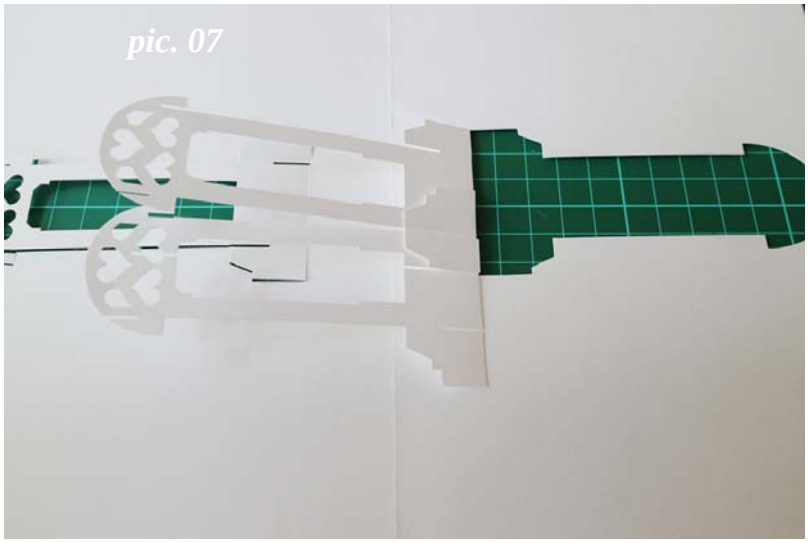
For step 1 – step 7, please refer to **Top View Diagram**(Bottom).

Step 1.

①: **C5e** – **C6e**. *(see pic. 06 and pic. 07)*



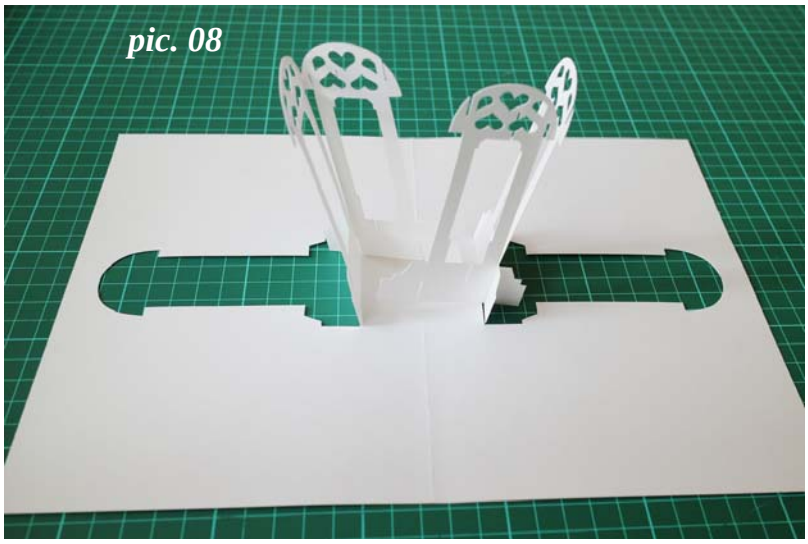
pic. 06



pic. 07

Step 2.

②: Repeat for another side. **C2f** – **C3f**. *(see pic. 08)*

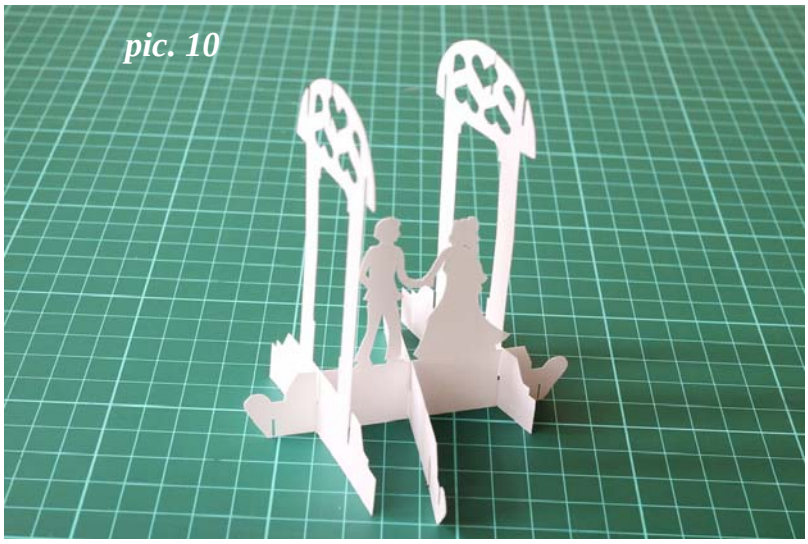


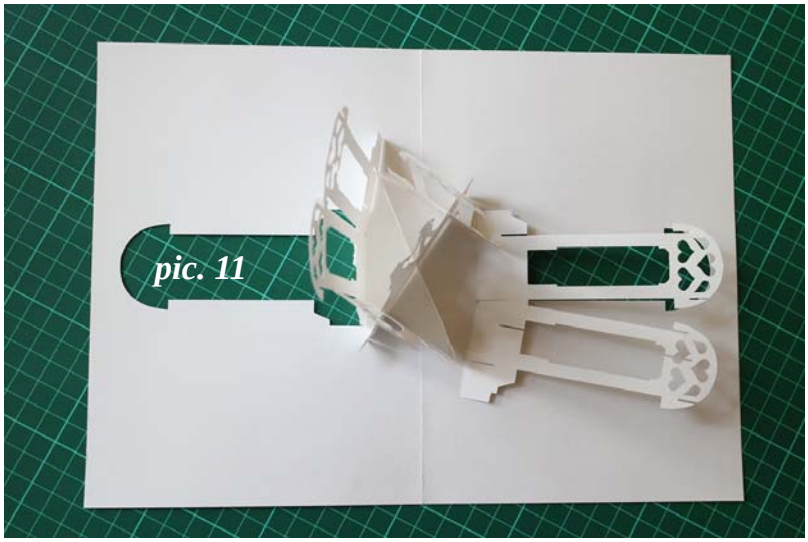
Step 3.

③: **A1a**– **A2a**. *(see pic. 09)*

Step 4.

④: **A1d** – adjacent **C1d**, ⑤: then **A1d** – adjacent **C4d**. *(see pic. 10 and pic. 11)*

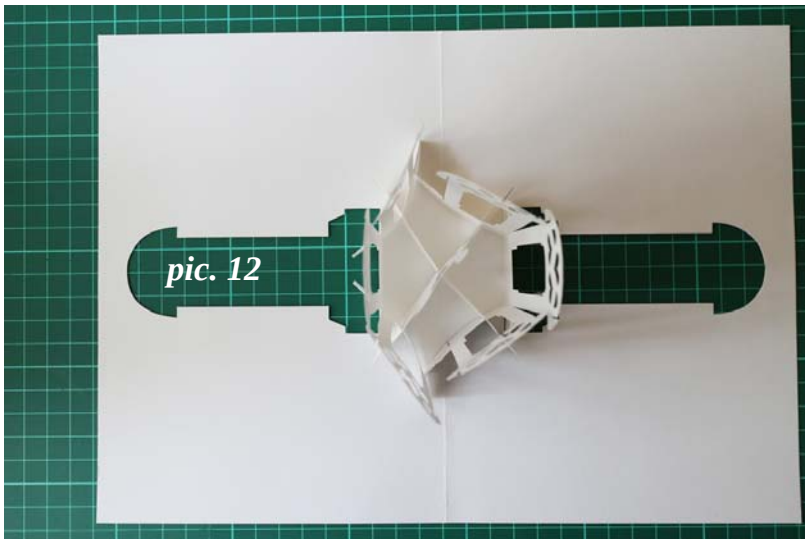




Step 5.

⑥: **C2e** – **C1e**, ⑦: then **C5f** – **C4f**,

⑧: **A2d** – adjacent **C3d**, ⑨: then **A2d** – adjacent **C6d**. *(see pic. 12)*



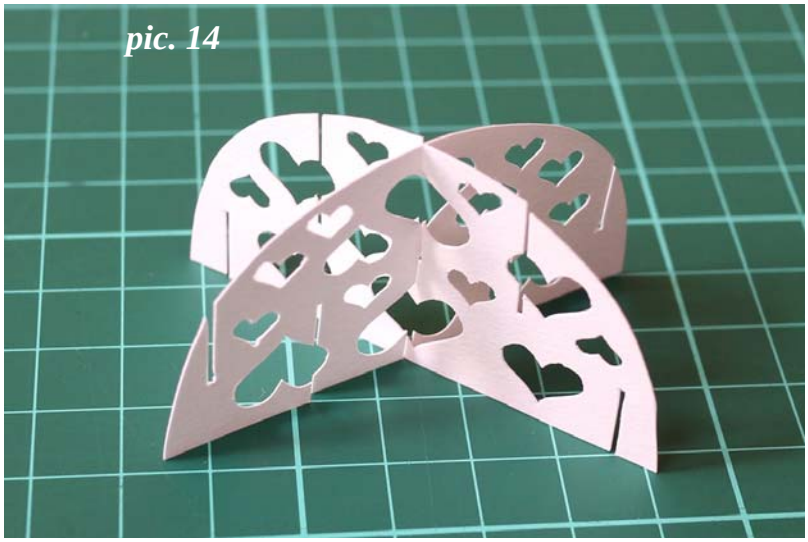
Step 6.

⑩: **C1f** – **C6f**, ⑪: then **C3e** – **C4e**. *(see pic. 13)*

For step 7 – step 12, please refer to **Top View Diagram**(Top)

Step 7.

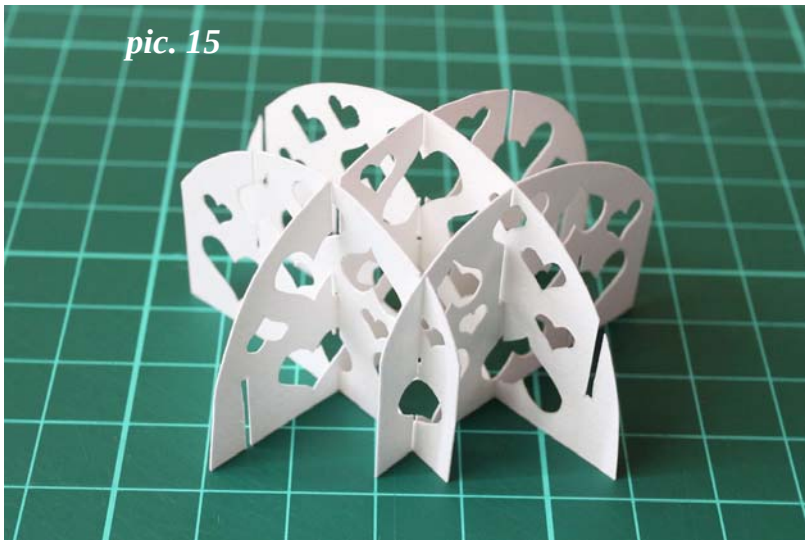
⑫: **H1a** – **H2a**. *(see pic. 14)*



Step 8.

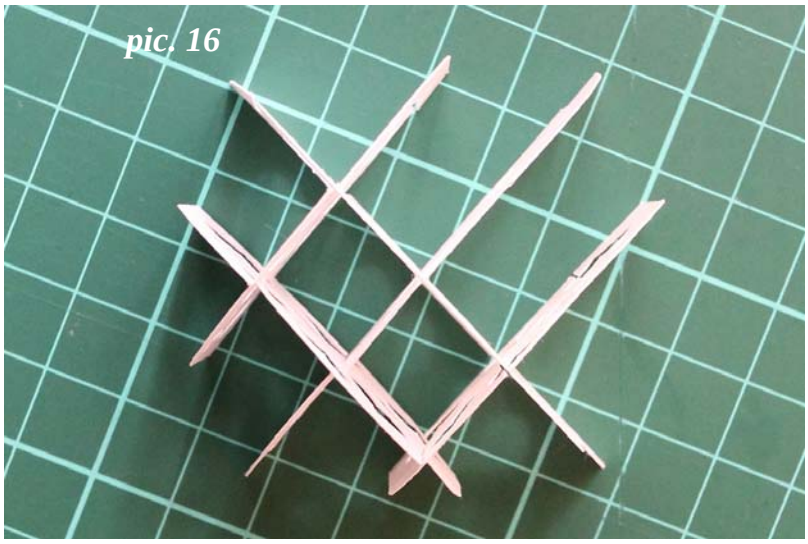
⑬: **K1b** – adjacent **H1b**, ⑭: then **K4b** – adjacent **H2b**,

⑮: **K1c** – **K4c**. *(see pic. 15)*



Step 9.

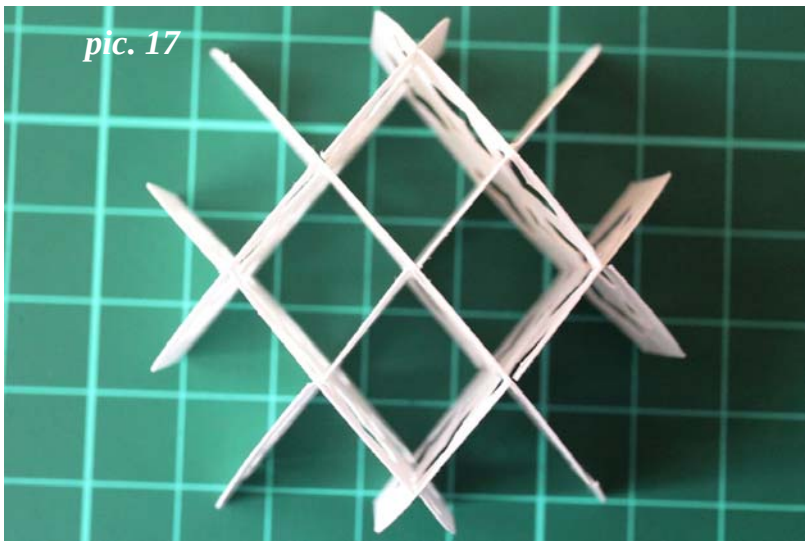
⑯: **K2b** – adjacent **H2b**, ⑰: then **K1a** – **K2a**. *(see pic. 16)*



Step 10.

(18): **K3b** – adjacent **H1b**, (19): then **K3a** – adjacent **K4a**,

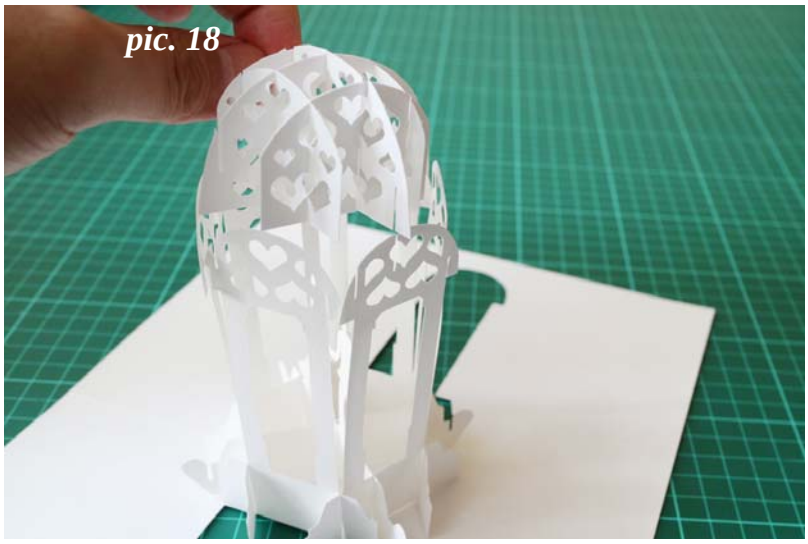
(20): **K2c** – **K3c**. *(see pic. 17)*

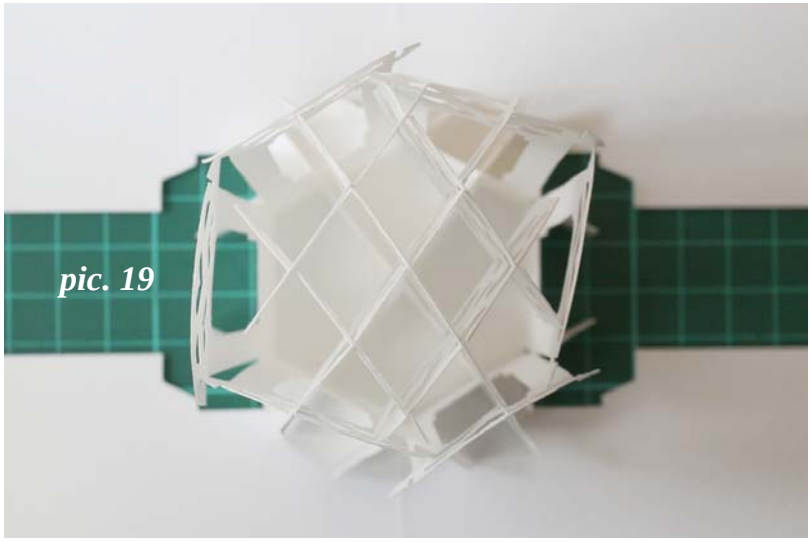


Step 11.

(21): **H1c** – adjacent **C1c**, (22): then **H1c** – adjacent **C4c**,

(23): **H2c** – adjacent **C3c**, (24): then **H2c** – adjacent **C6c**. *(see pic. 18 and pic. 19)*



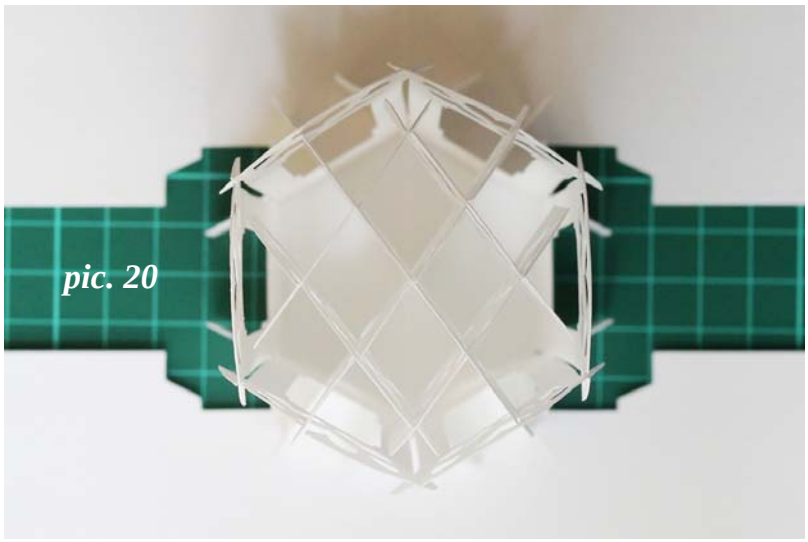


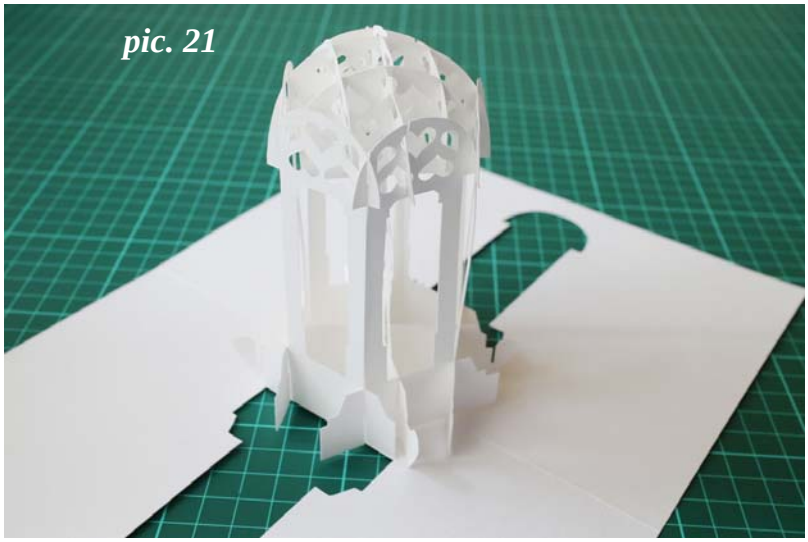
Step 12.

㉕: **C1a – C2a**, ㉖: then **C2b – C3b**,

㉗: **C3a – C4a**, ㉘: then **C4b – C5b**,

㉙: **C5a – C6a**, ㉚: then **C6b – C1b**. *(see pic. 20 - pic. 21)*



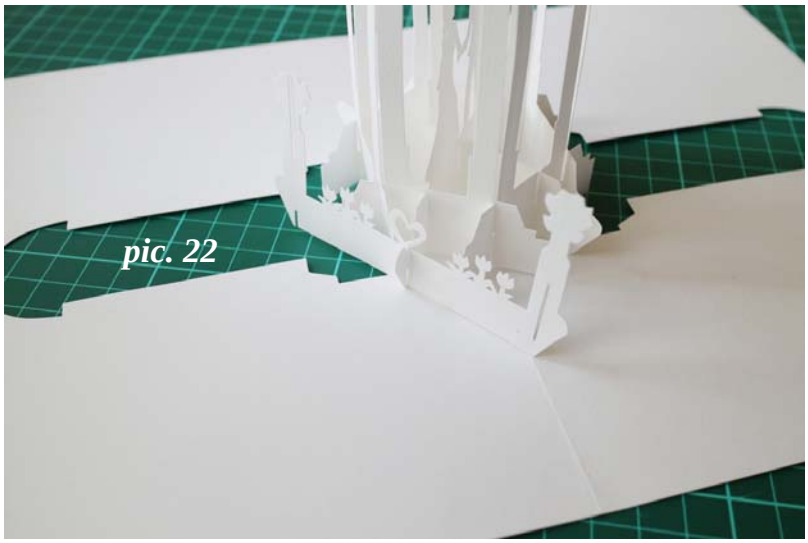


For step 13 – step 15, please refer to **Top View Diagram**(Bottom).

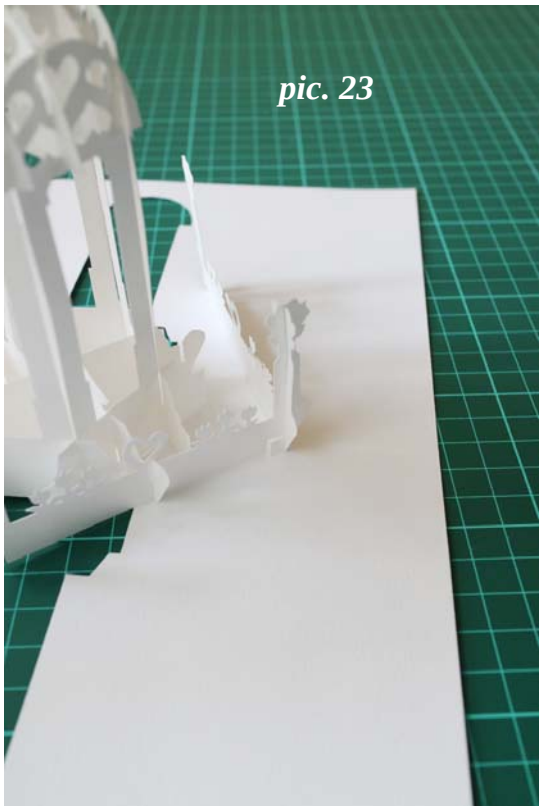
Step 13.

㉛: **B1c** – adjacent **A1c**, ㉜: then **B1b** – **B4b**,

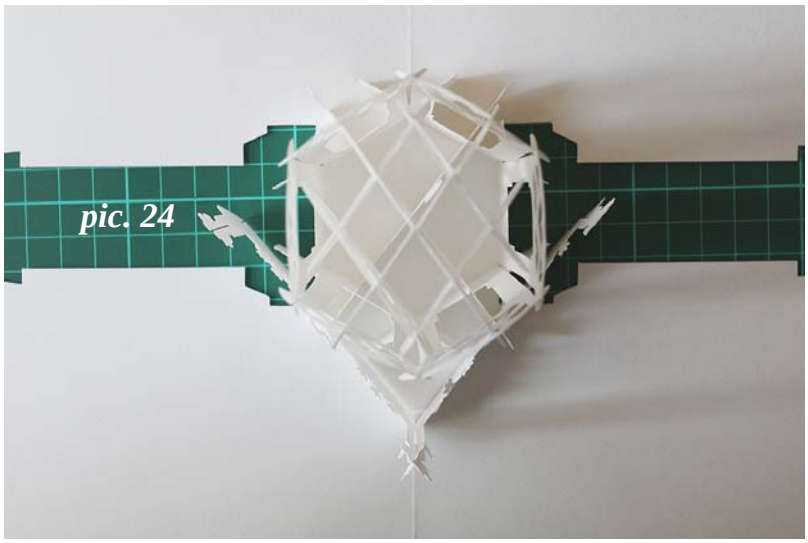
㉝: **B4c** – adjacent **A2c**. *(see pic. 22 - pic. 24)*



pic. 22



pic. 23

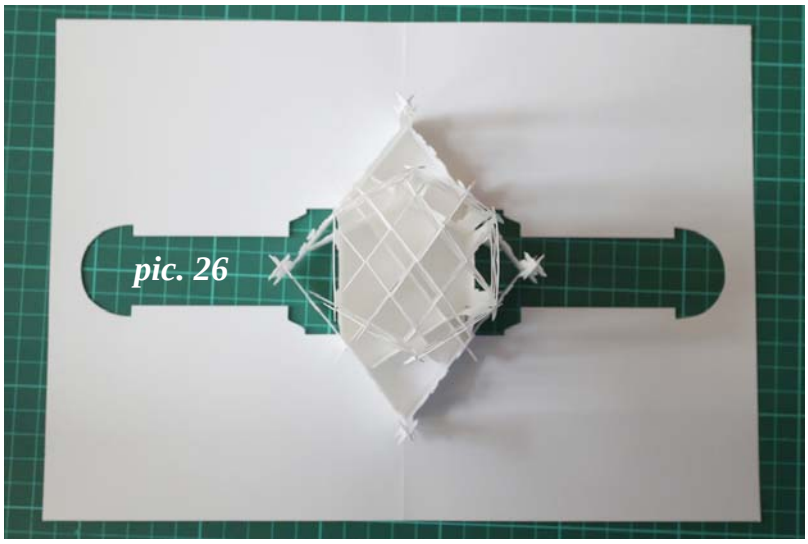


Step 14.

㉞: **B3c** – adjacent **A1c**, ㉟: then **B3a** – **B4a**. *(see pic. 25)*

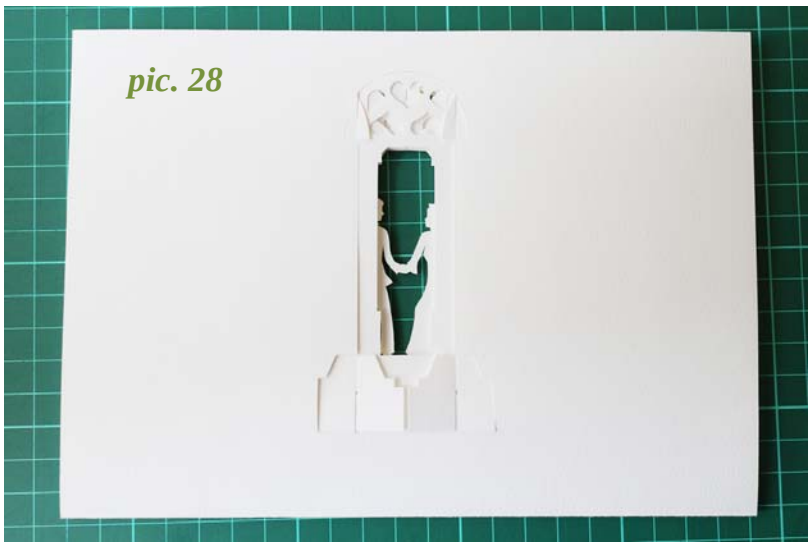
Step 15.

㊱: **B3b** –**B2b**, ㊲: **B2a** – **B1a**, ㊳: **B2c** – adjacent **A2c**. *(see pic. 26)*



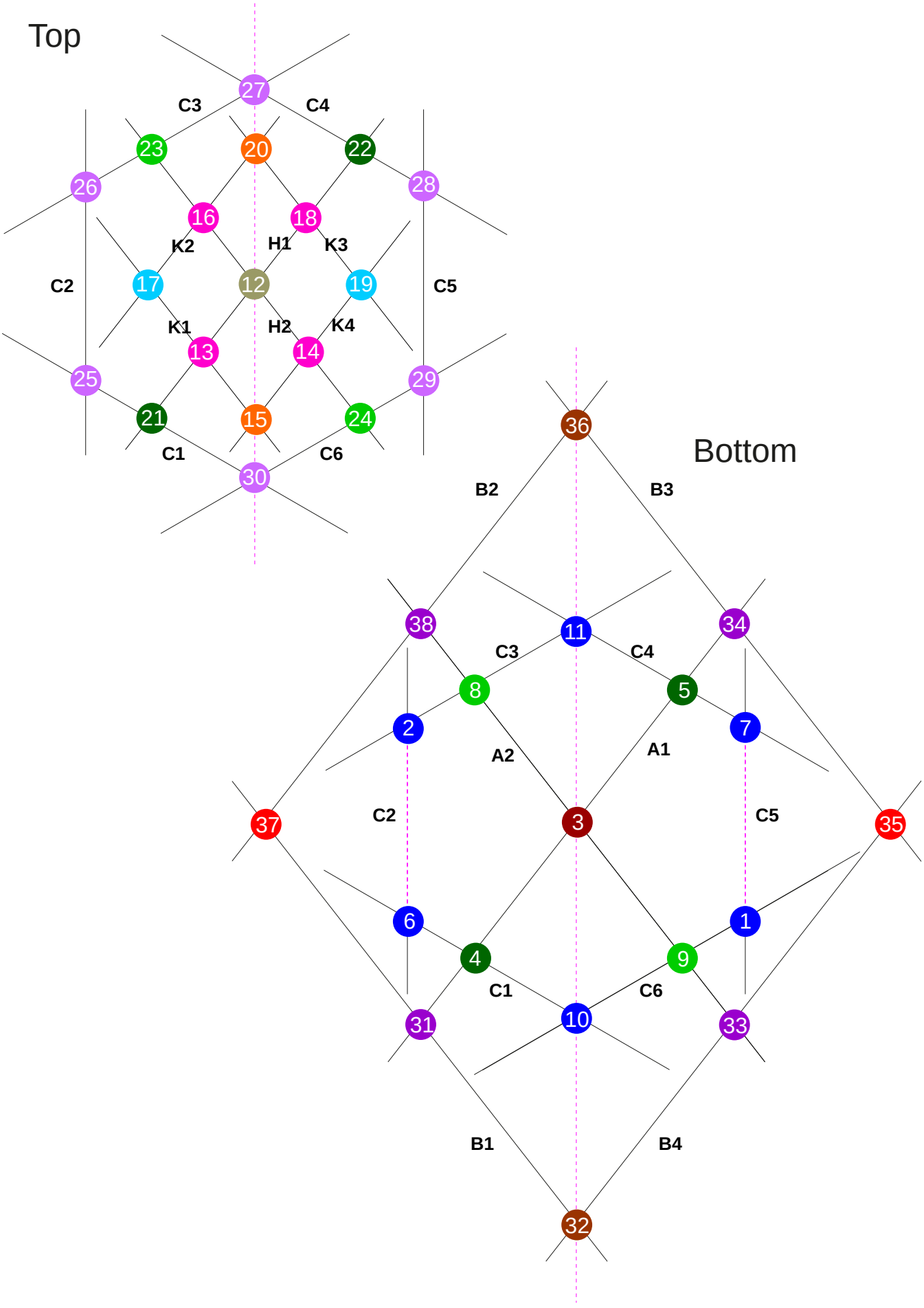
It should look like this after step 15 is finished. *(see pic. 27)*

then fold *(see pic. 28)*

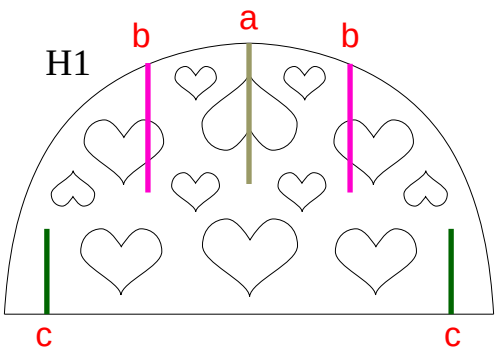


End

Top View Diagram (1:0.8)



H1



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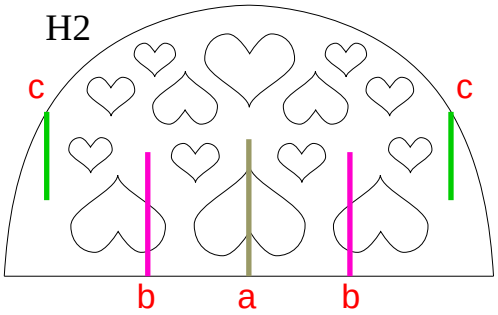
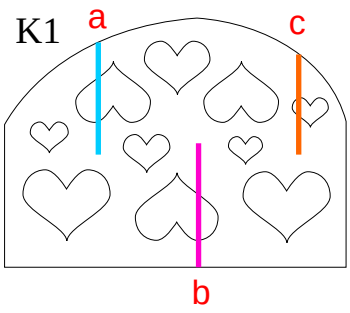


K1



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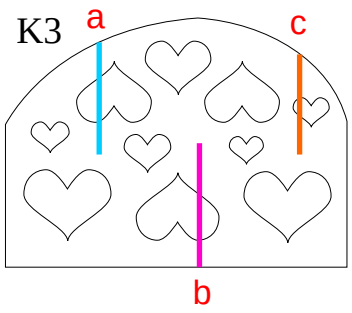

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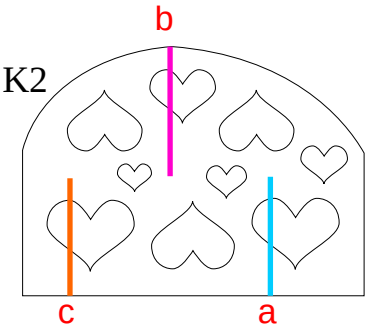
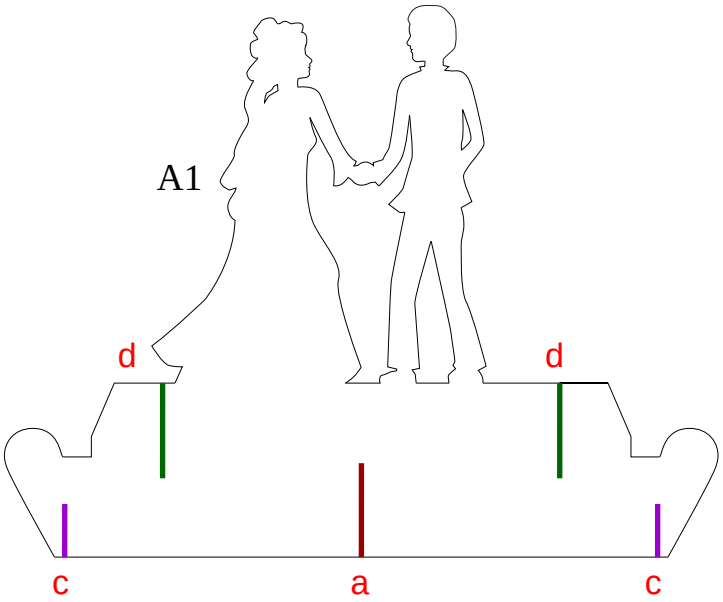
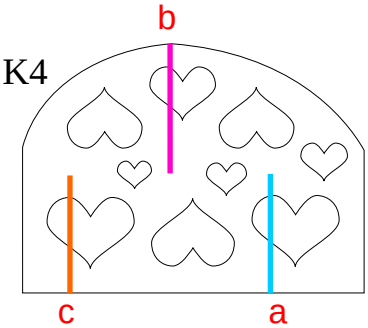


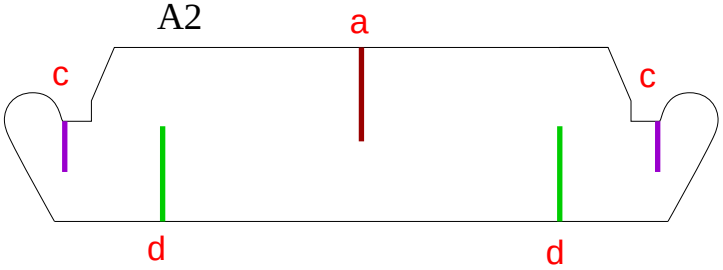
A1



K4

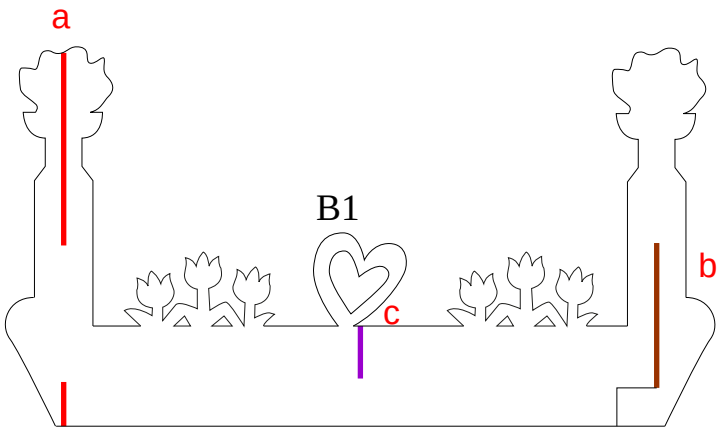


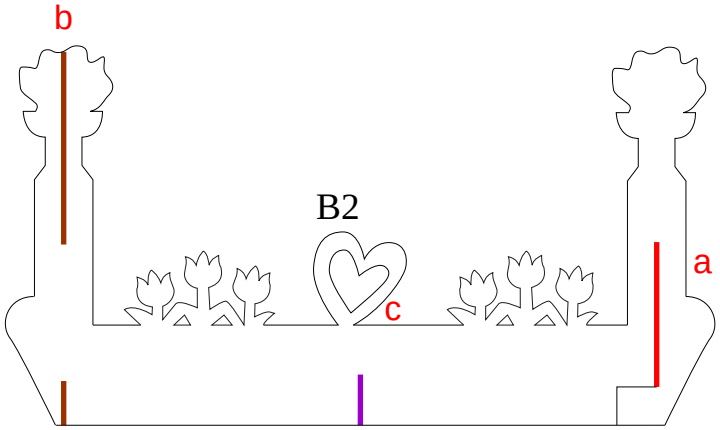
A2

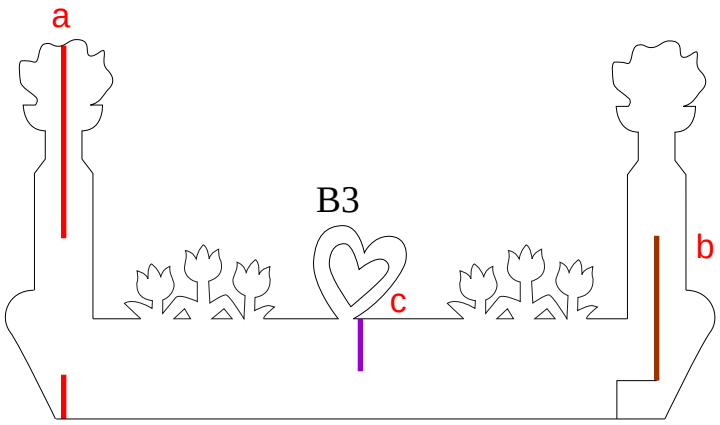


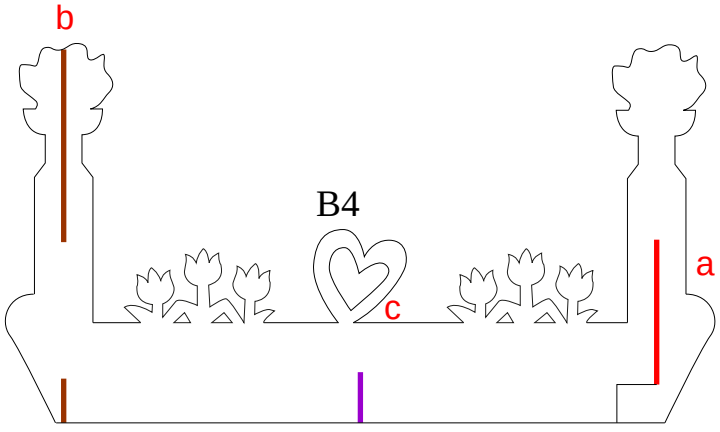
Pattern Sheet

Copyrighted material









Pattern Sheet

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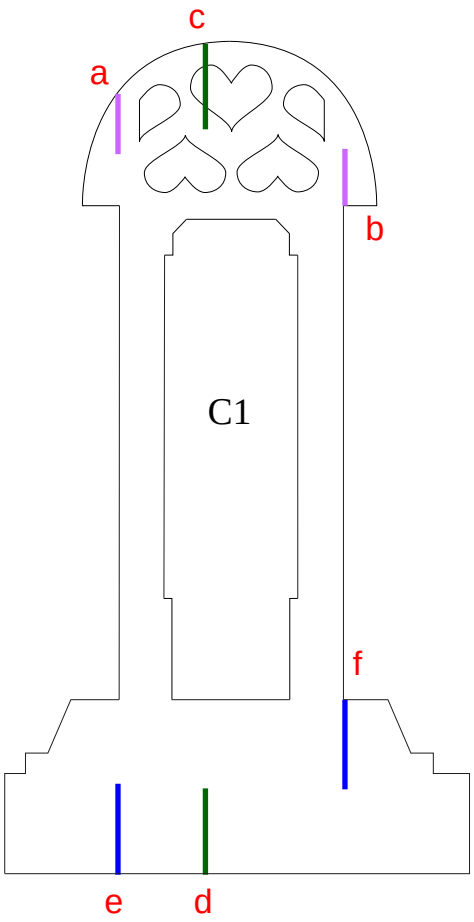

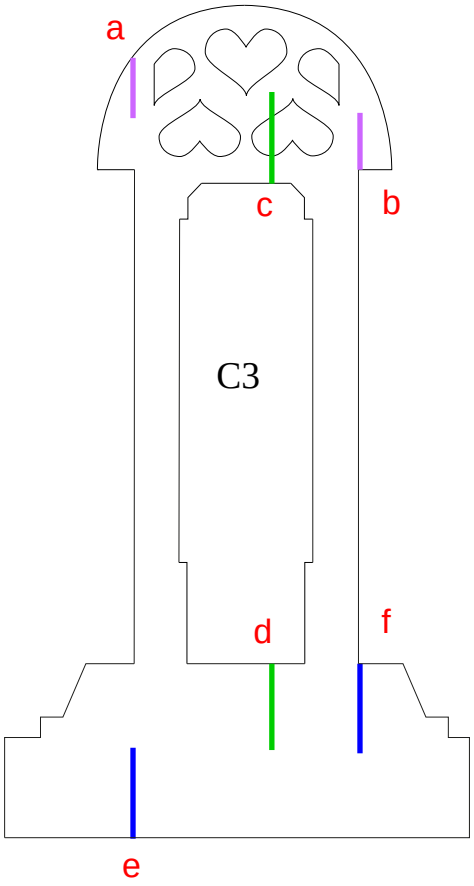

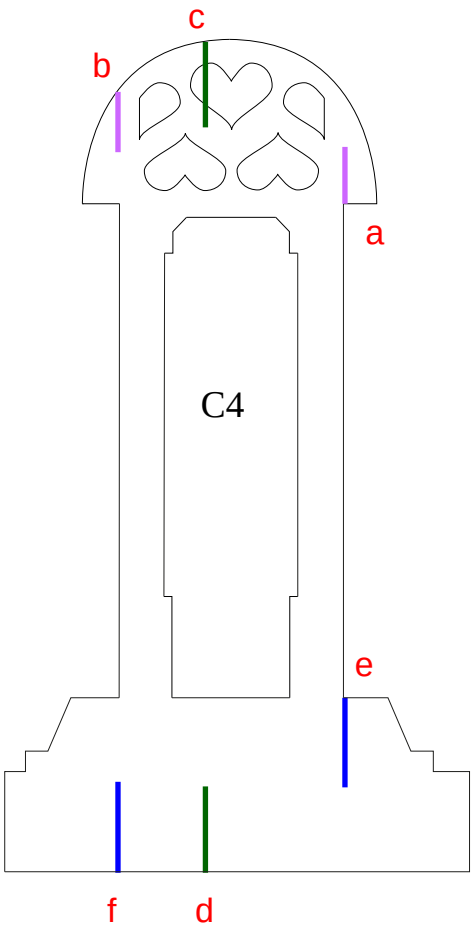

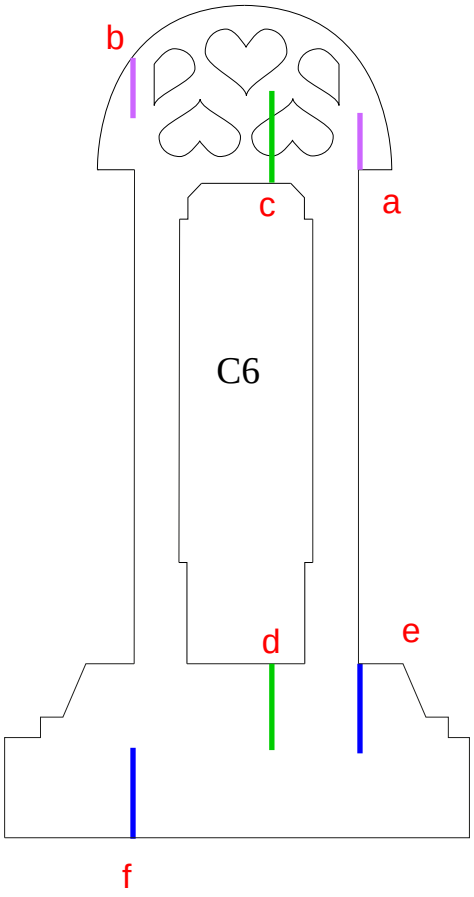

Pattern Sheet

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C2&5 **Pattern Sheet**

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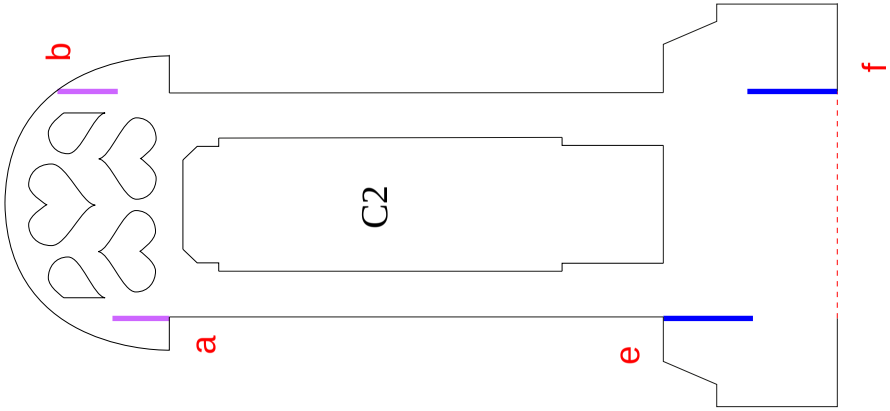

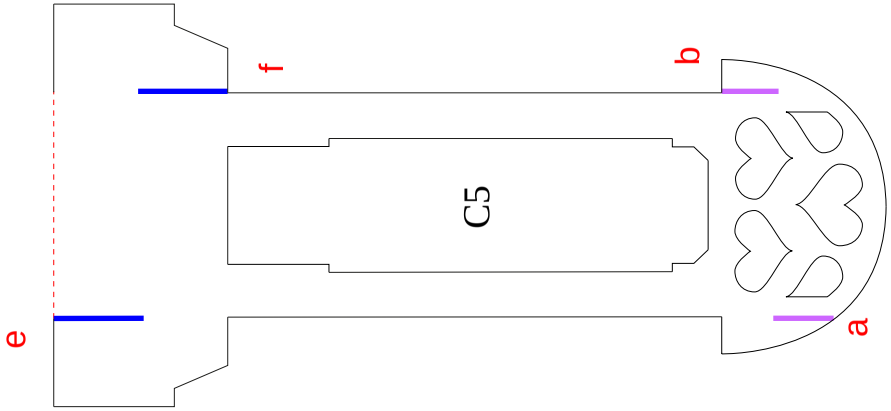

6. Little Chapel

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6. Little Chapel

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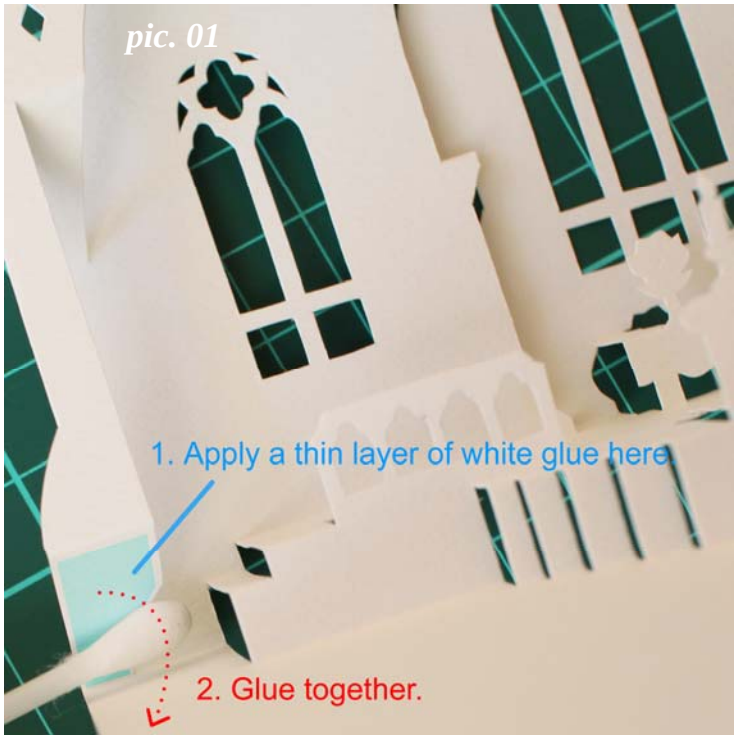
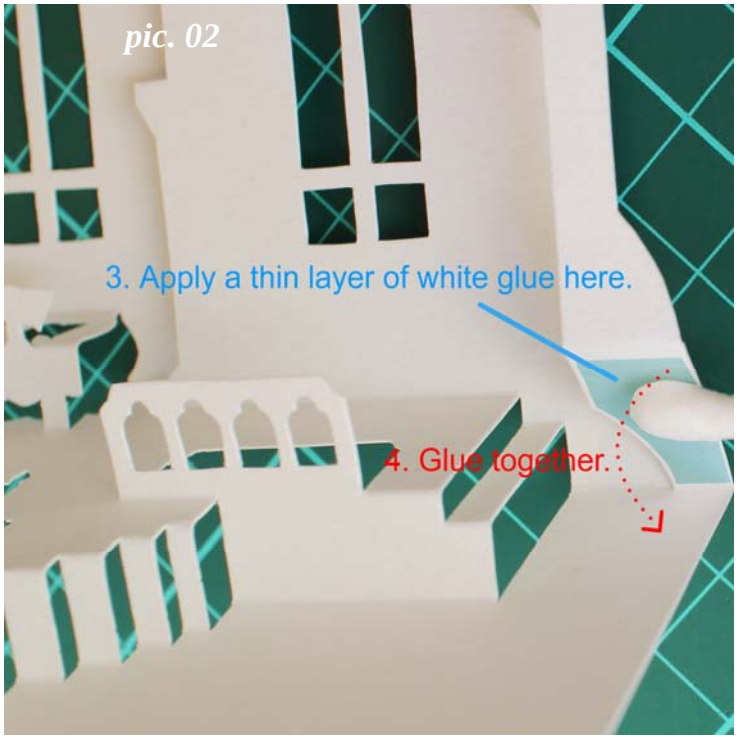
Instructions for Little Chapel pop-up card

* weight around 180gsm card papers recommended.

Apply glue as shown. *(see pic. 01 and pic.02)*





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Pattern Sheet

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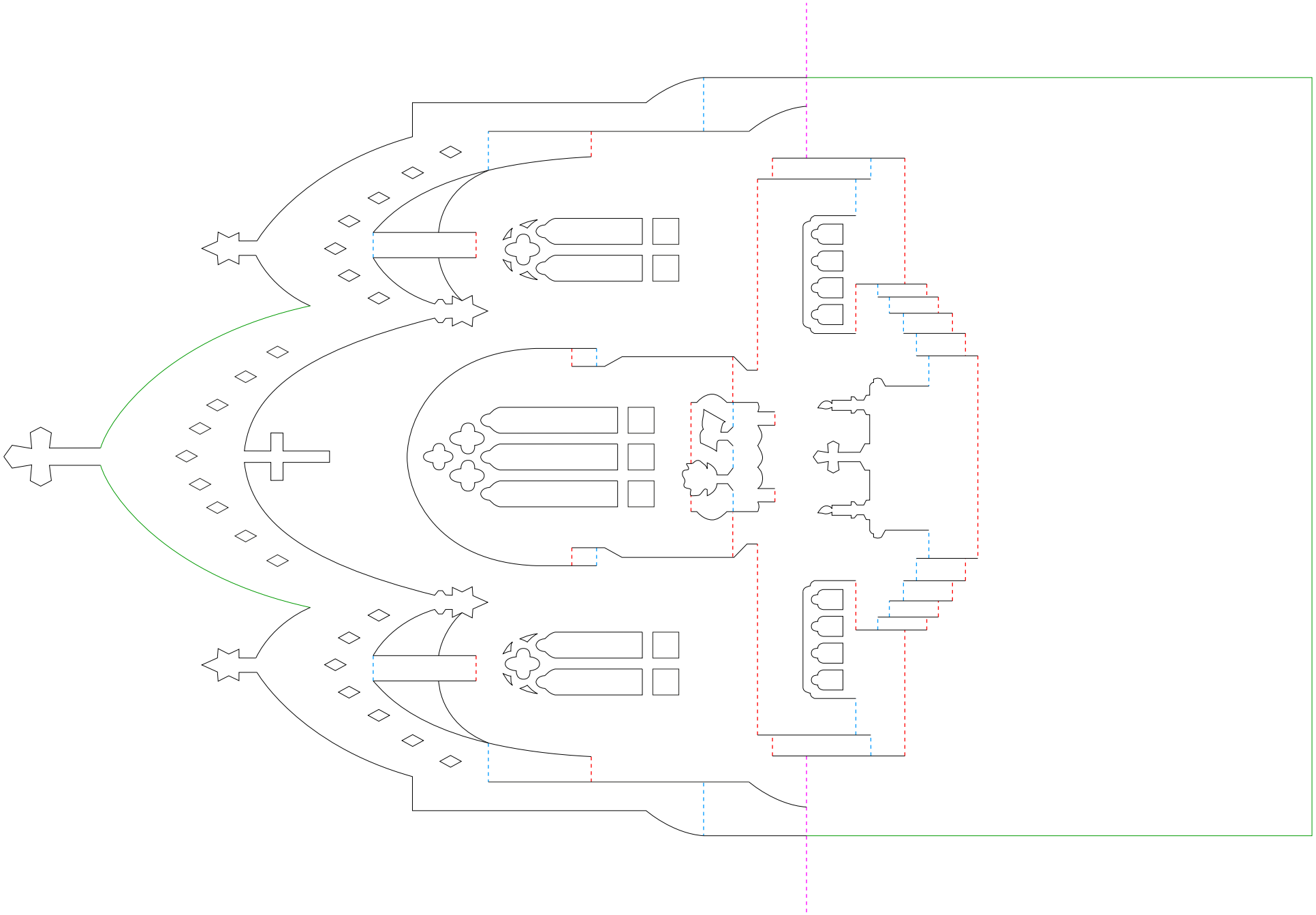

Valley Fold-lines Pattern Sheet

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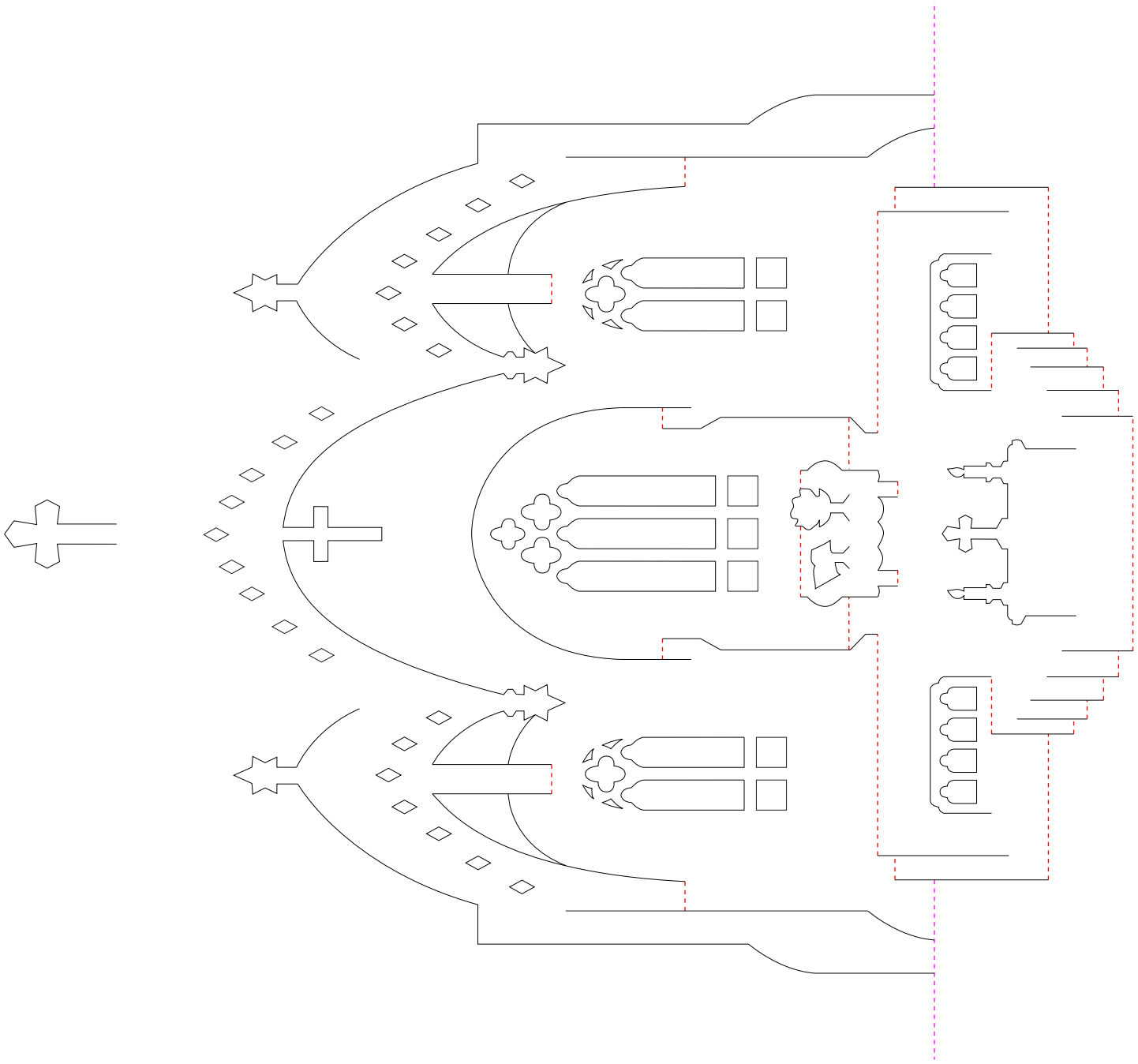

7. Little Chapel(refined)

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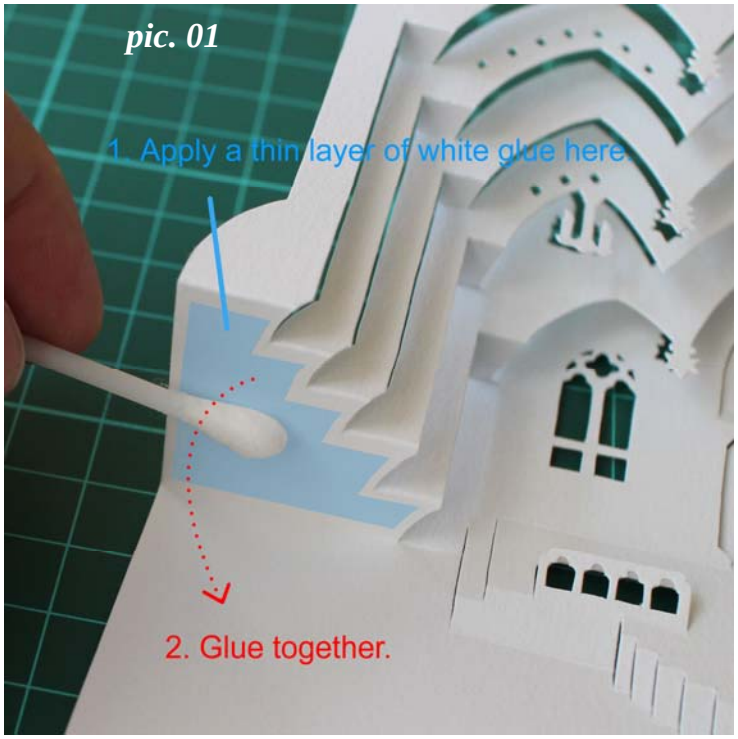
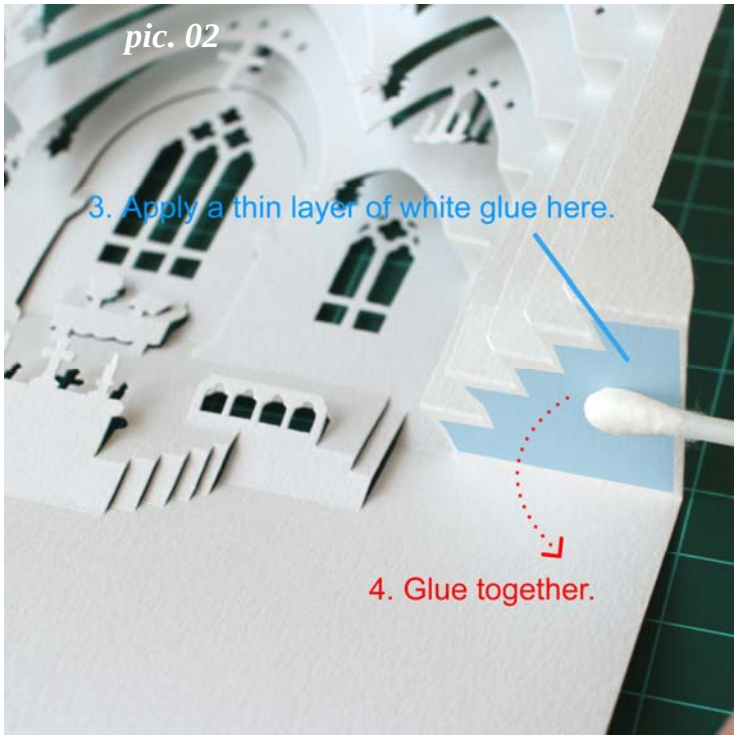
Instructions for Little Chapel(refined) pop-up card

* weight around 180gsm card papers recommended.

Apply glue as shown. *(see pic. 01 and pic.02)*





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Pattern Sheet

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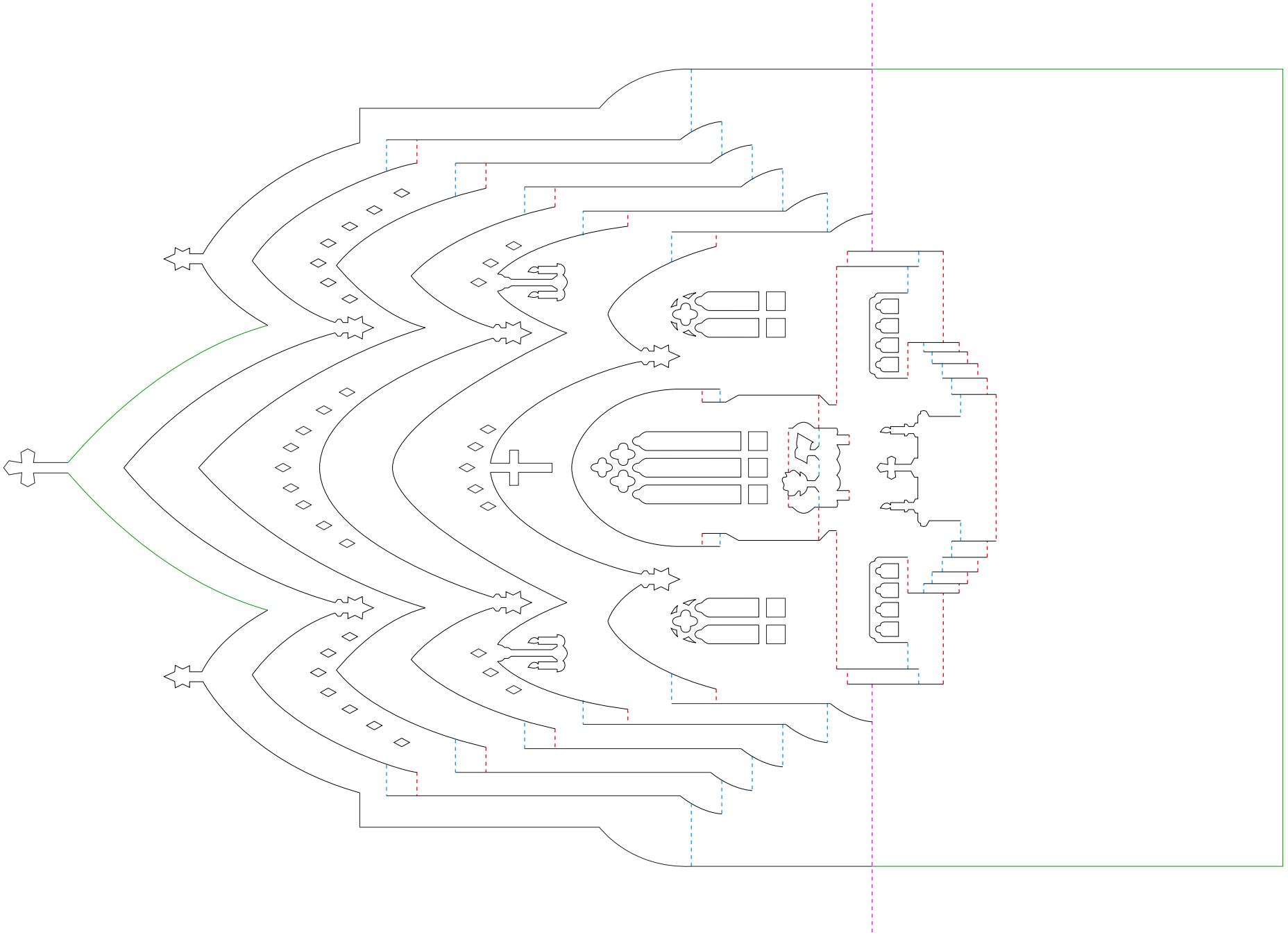

Valley Fold-lines Pattern Sheet

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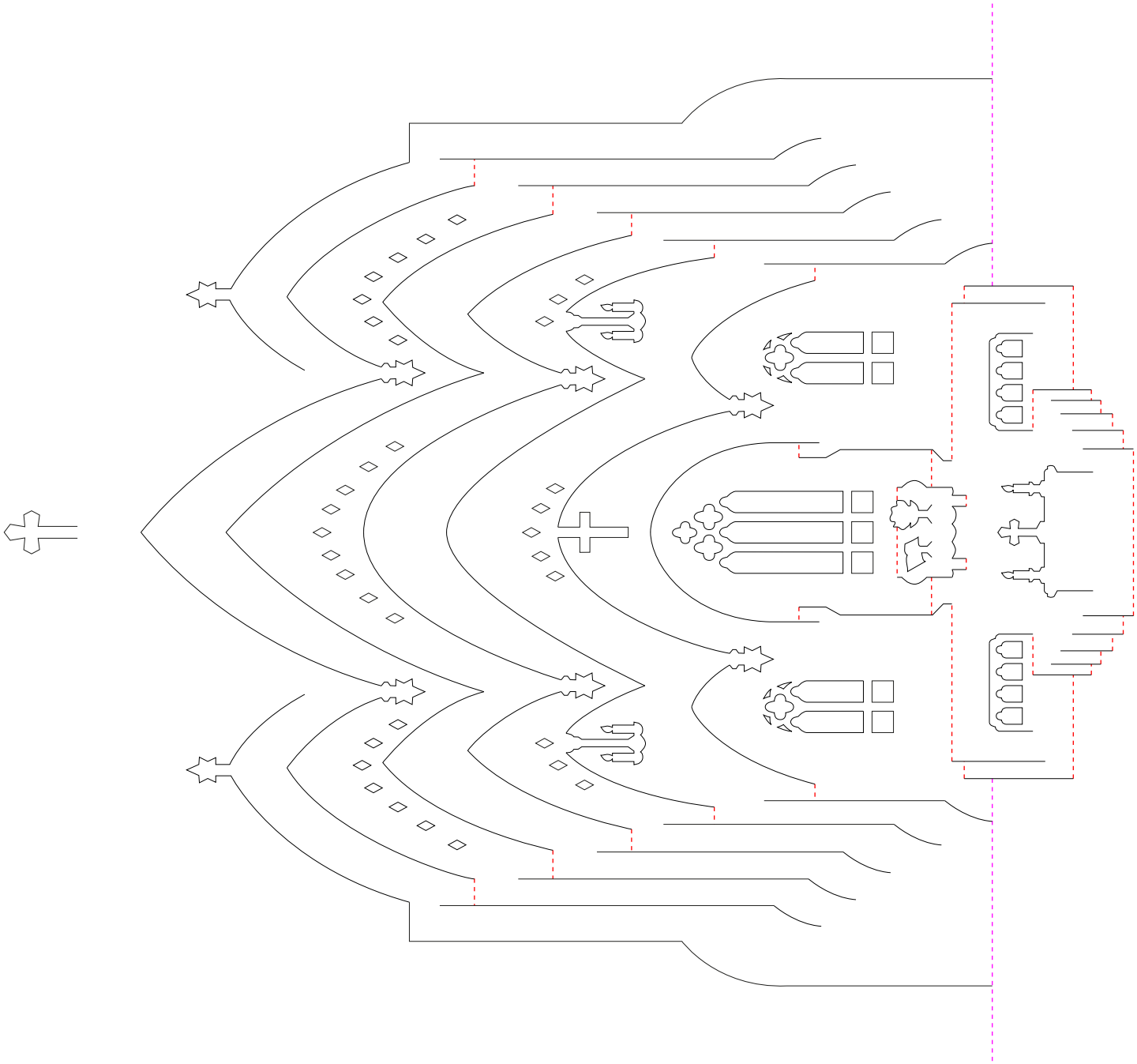

8. Cuckoo Clock

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8. Cuckoo Clock

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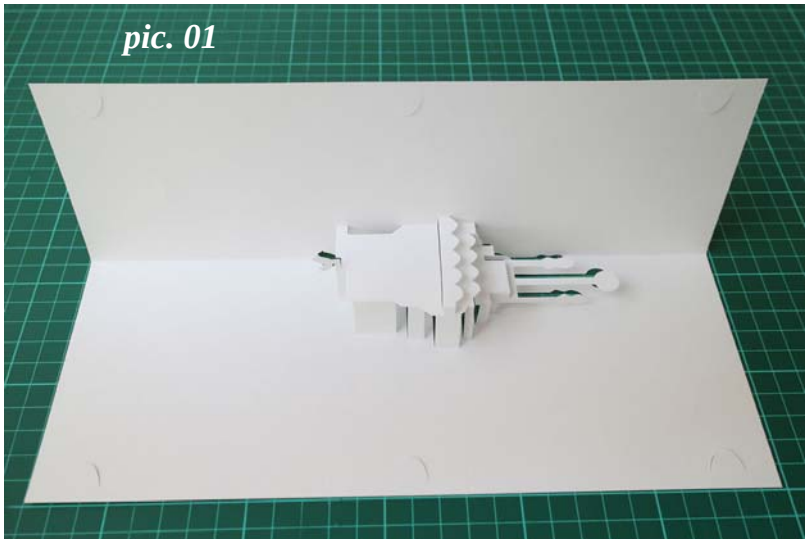
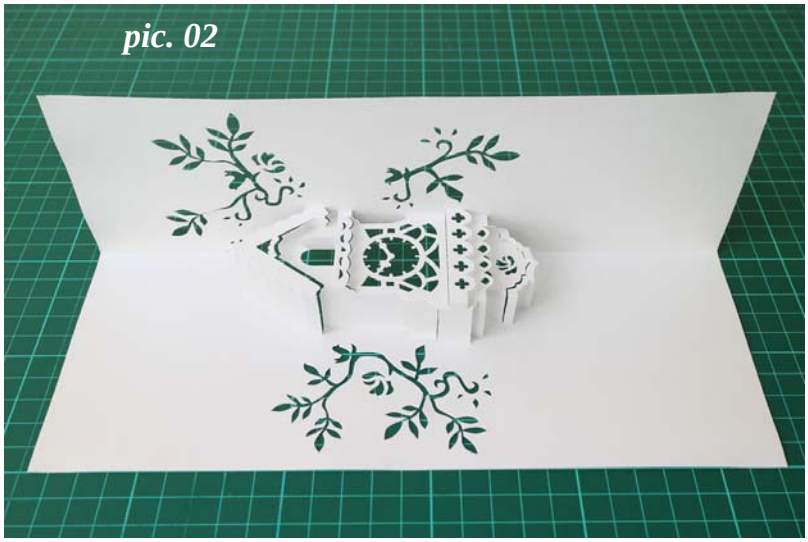
Instructions for Cuckoo Clock Pop-up Card

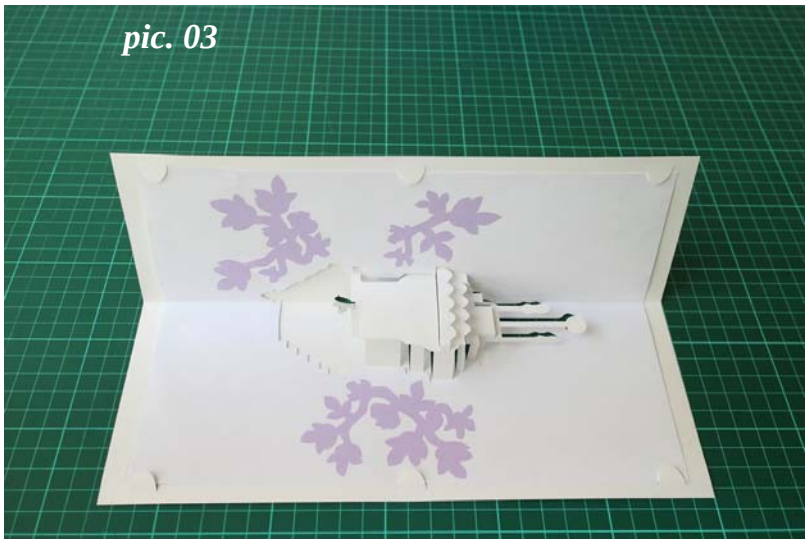
* weight around 180gsm card papers recommended.

Step 1. Prepare both finished parts as shown. *(see pic. 01 – pic. 02)*

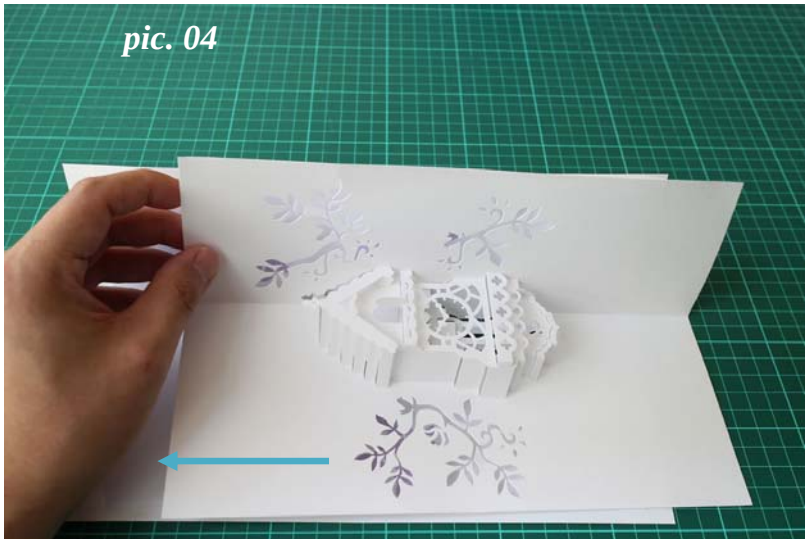


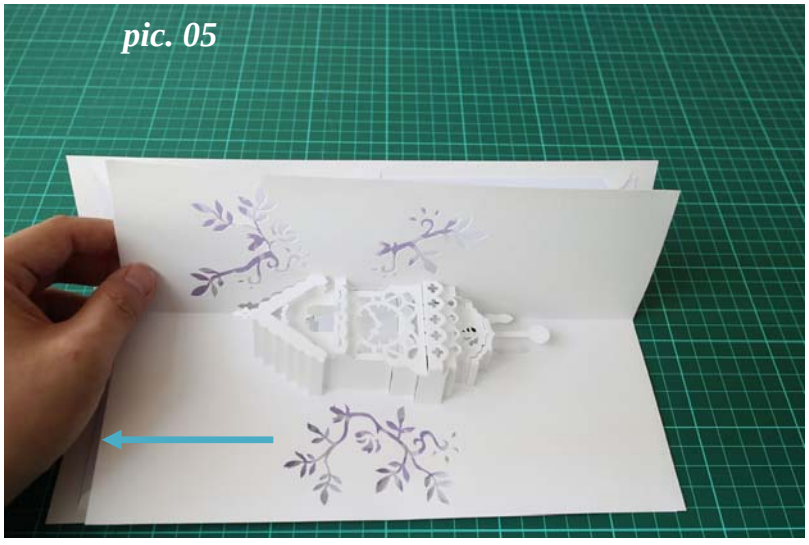


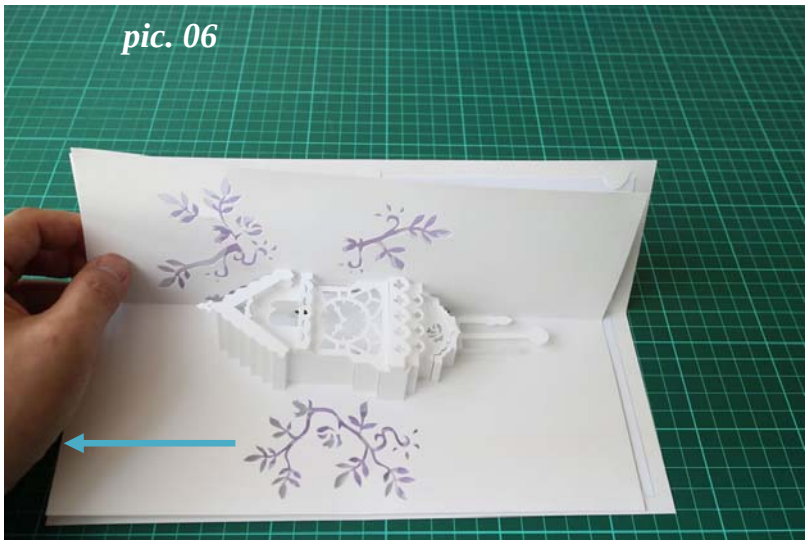
Step 2(Optional). Print one of the given color pattern on a plain paper(around 70gsm - 80gsm) and place it on inside part as shown. *(see pic. 03)*



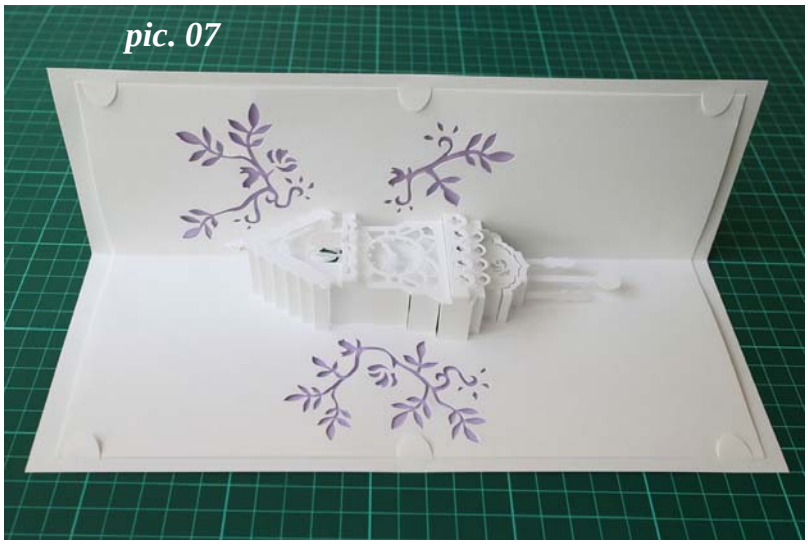
Step 3. Combine the two finished parts as shown. *(see pic. 4 – pic. 6)*







It should look like this after step 3 is finished. *(see pic. 07)*



End

Pattern Sheet

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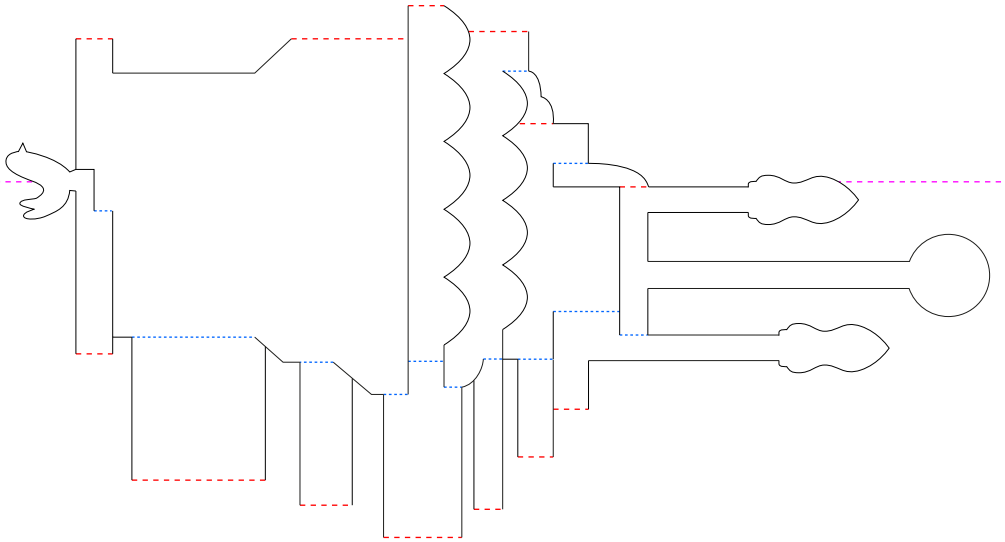

Valley Fold-lines Pattern Sheet

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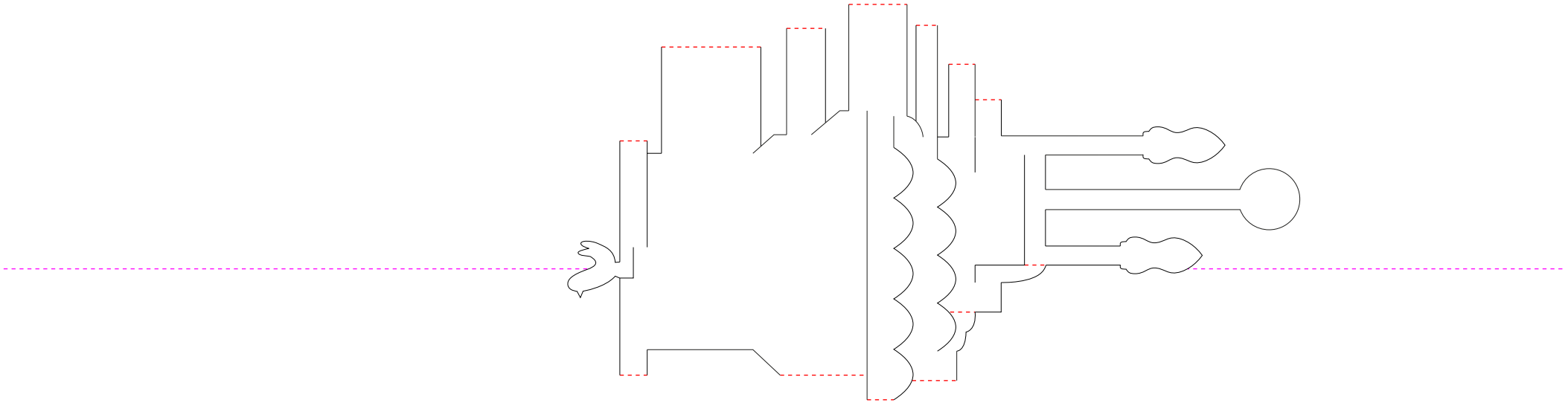

Pattern Sheet

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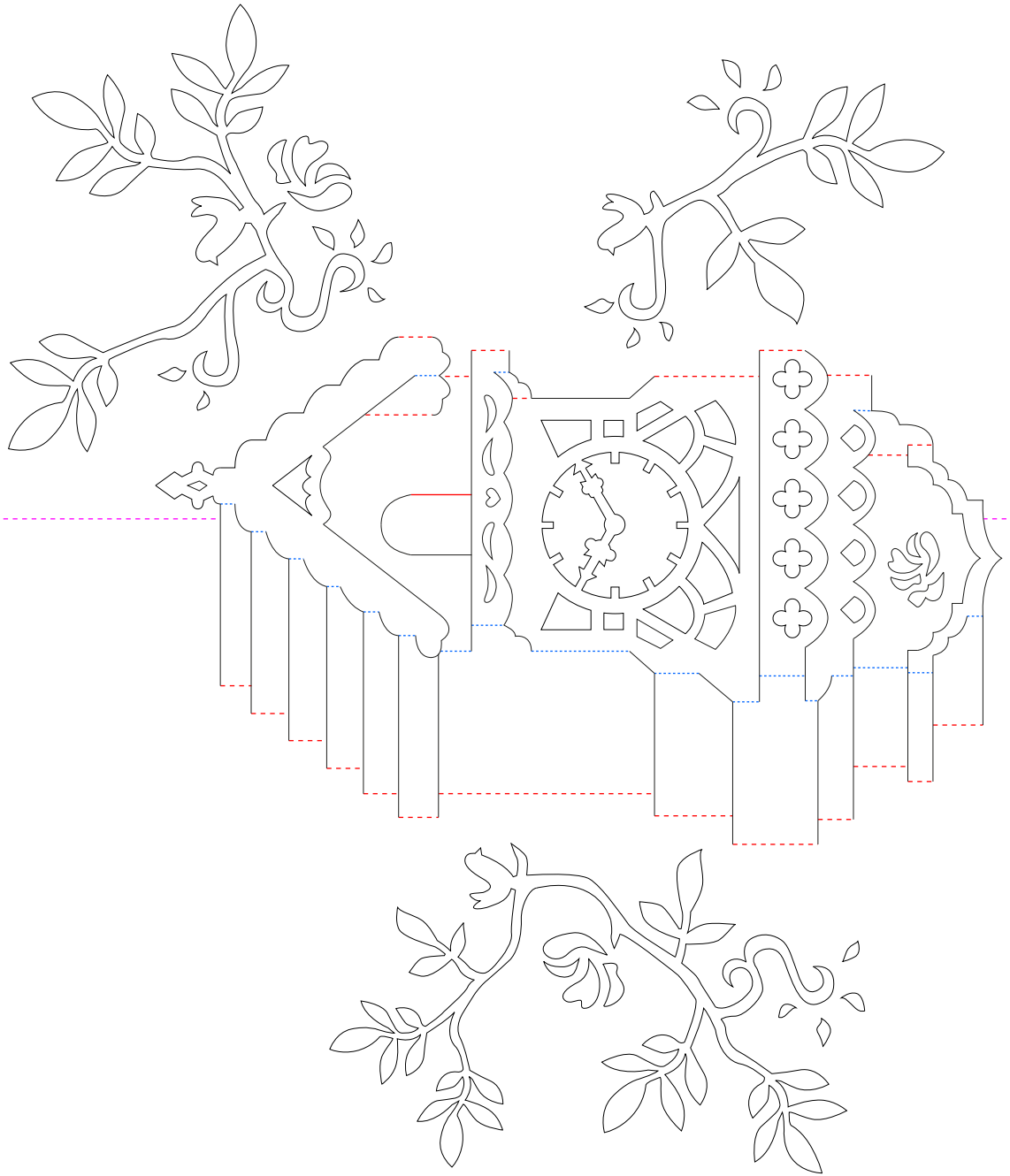
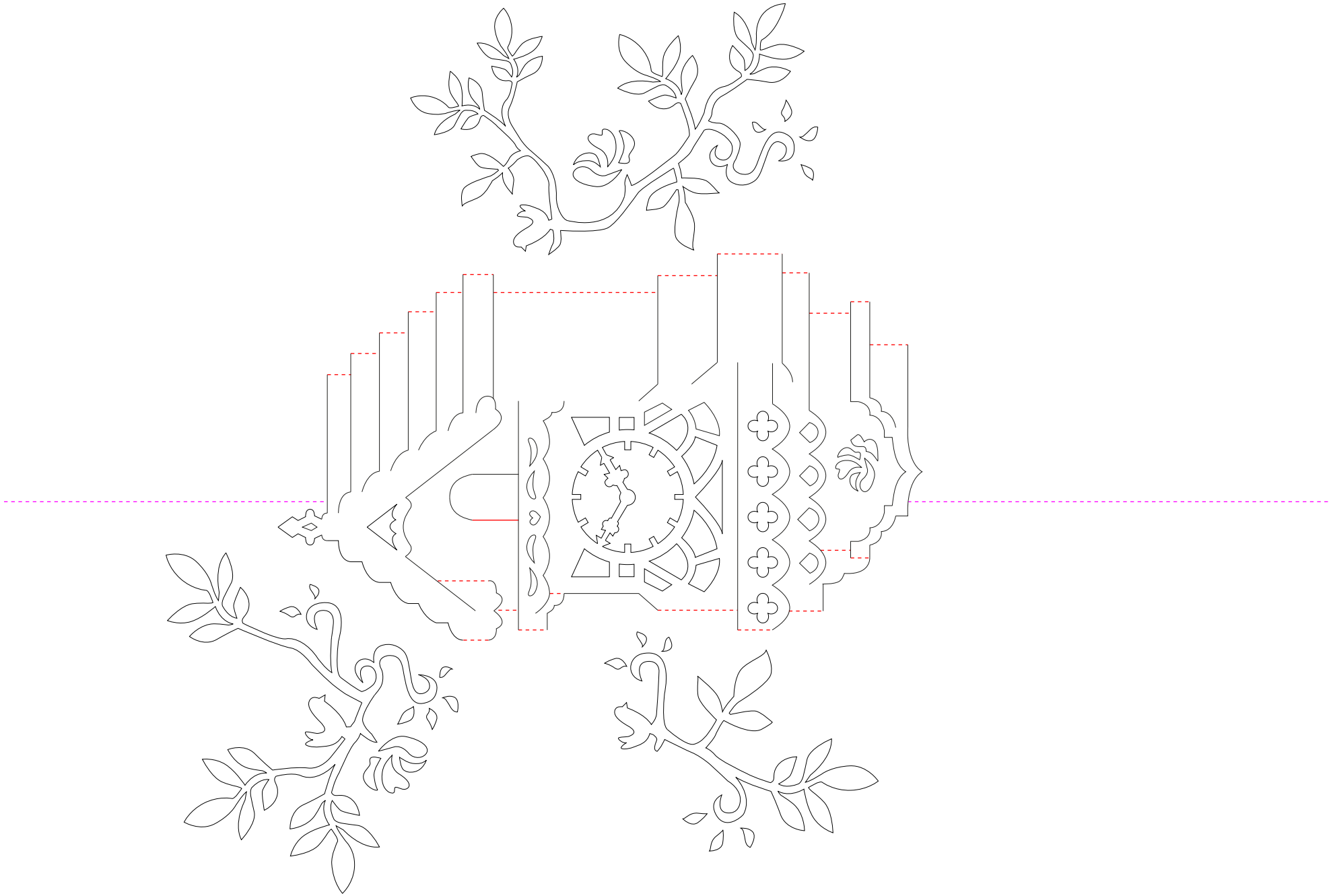
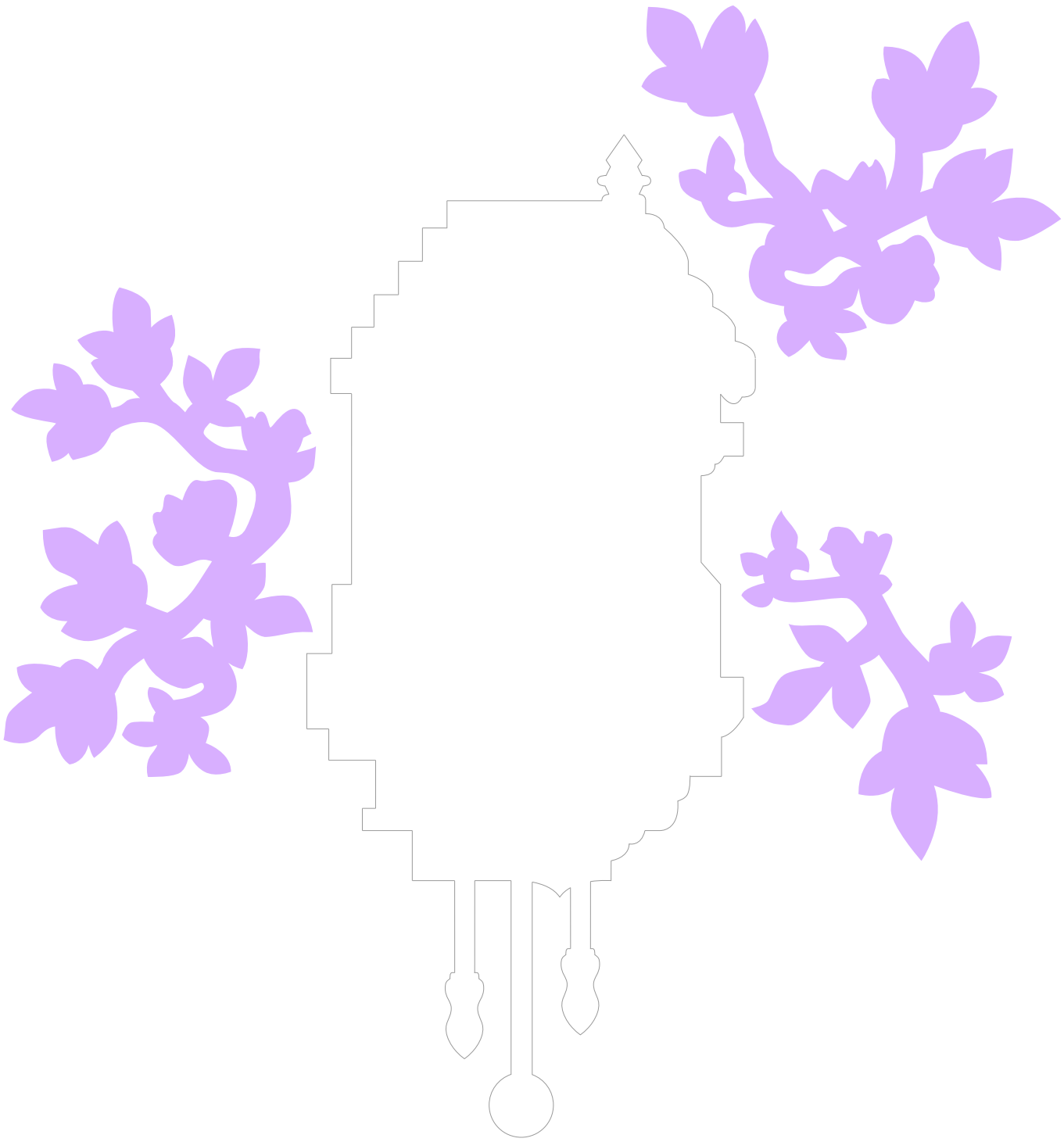
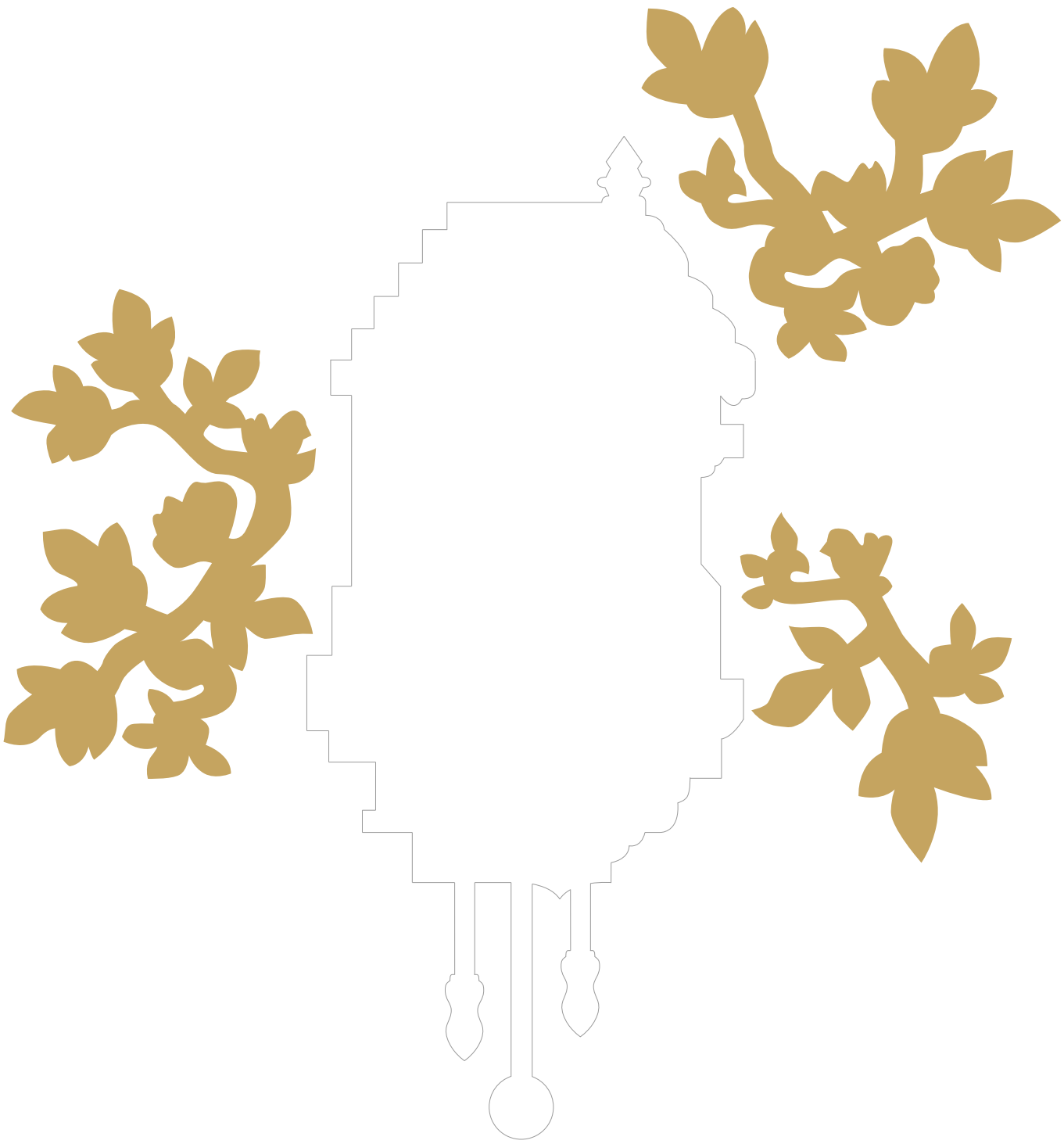


Valley Fold-lines Pattern Sheet

Copyrighted material







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9. Piano

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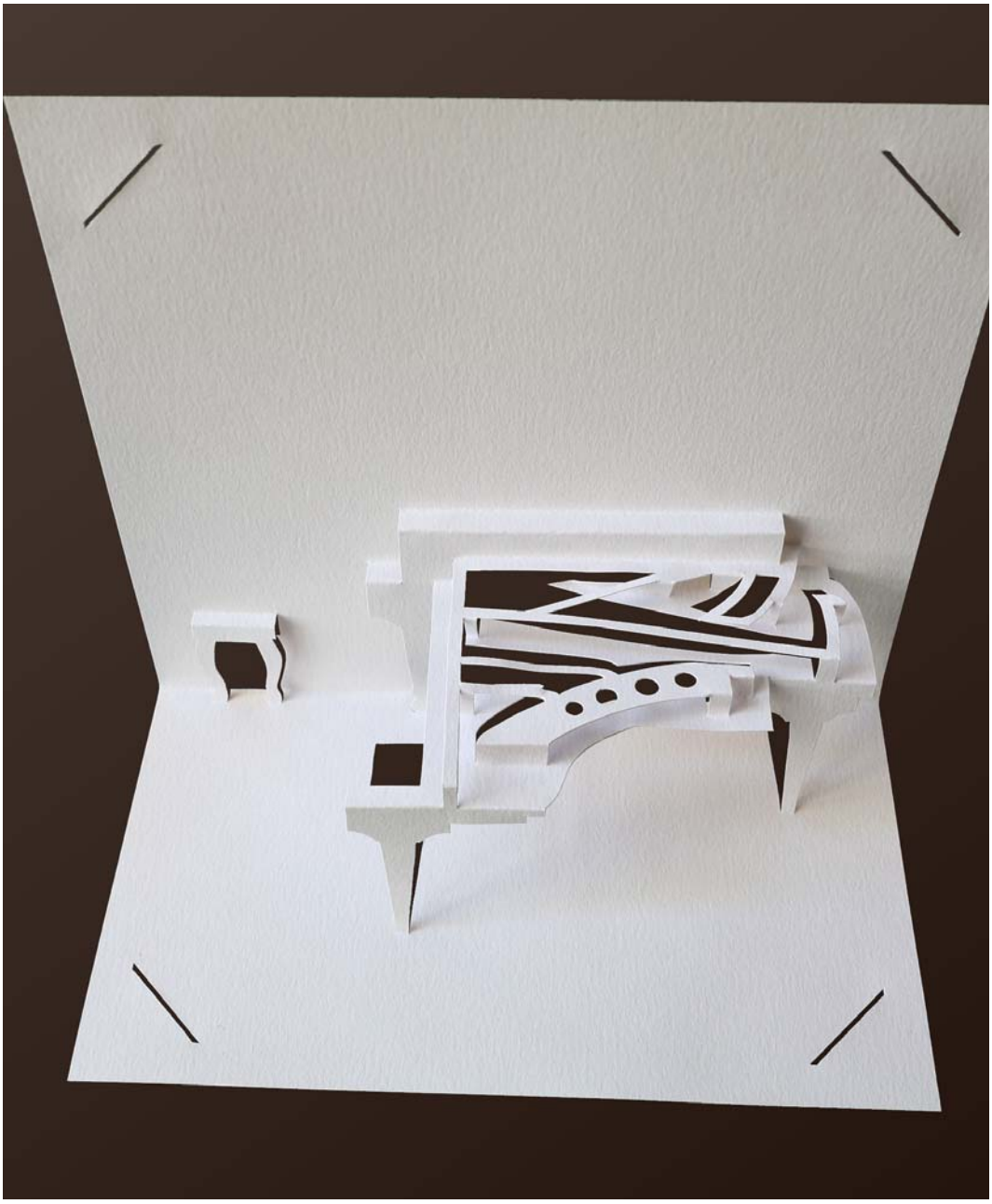
9. Piano



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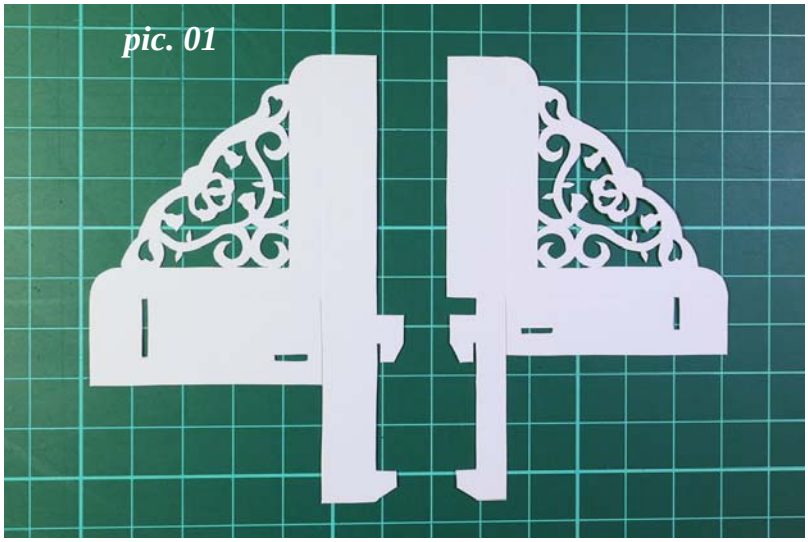
Instructions for Piano Pop-up Card

*weight around 200gsm card papers recommended.

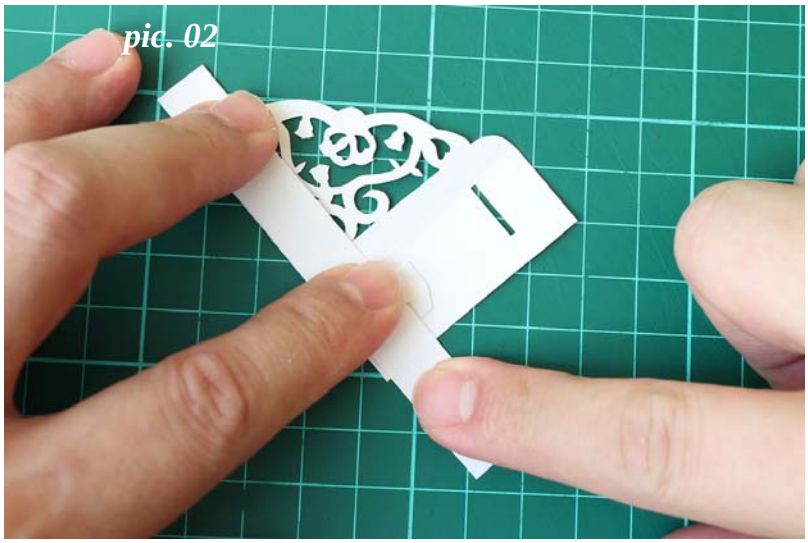
A. Making the stands

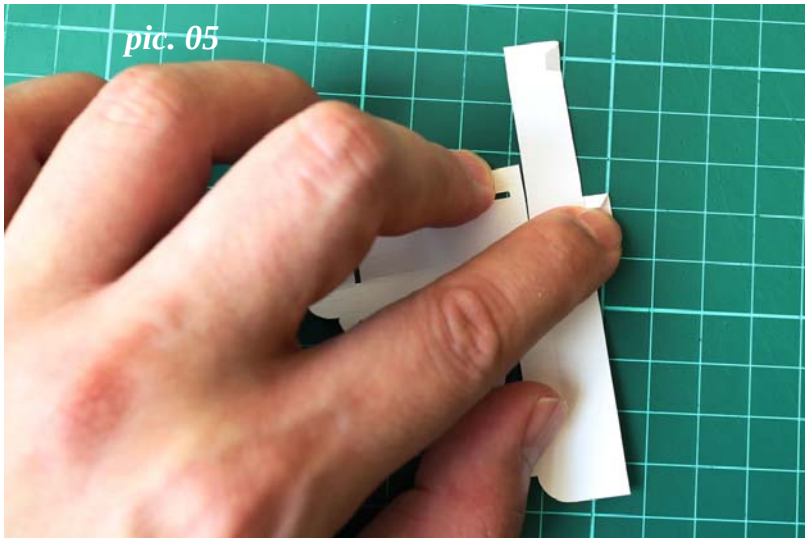
Parts: **LA**, **RA** / **LB**, **RB**

Step 1. Prepare Part **LA**, Part **RA** / Part **LB**, Part **RB** with all the fold-lines position half-cut. *(see pic. 01)*

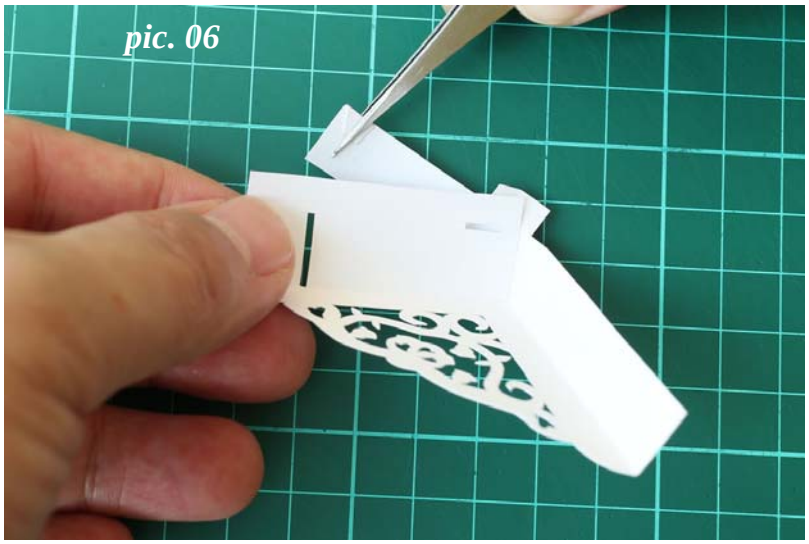


Step 2. Fold and unfold Part **RA** /Part **RB** along all the mountain fold-lines as shown. *(see pic. 02 - pic. 05)*

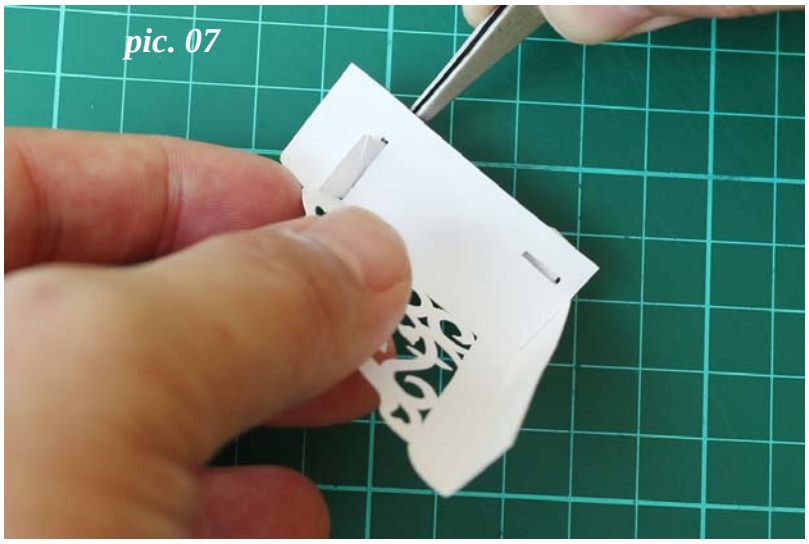




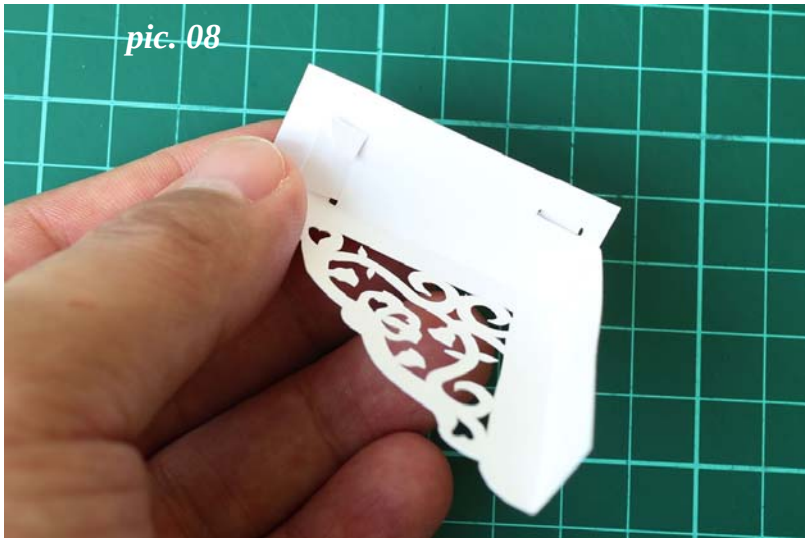
Step 3. Interlock Part **RA** /Part **RB** as shown. *(see pic. 06 - pic. 10)*



pic. 06

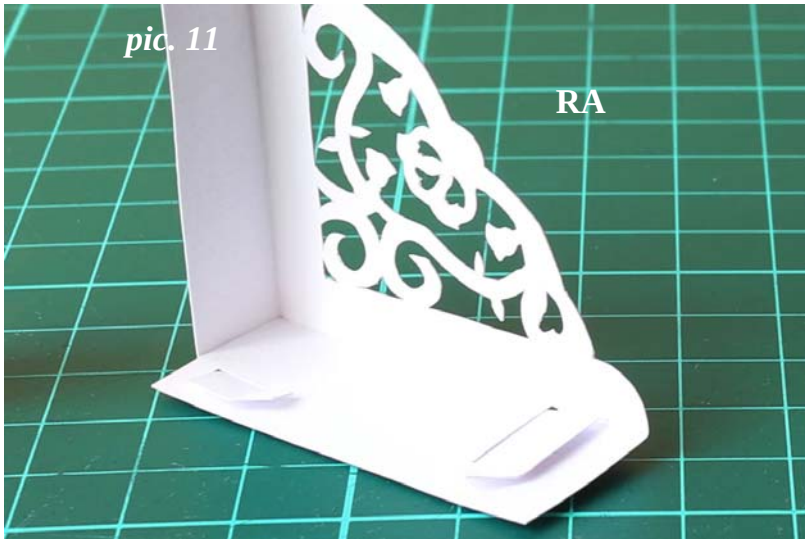


pic. 07



pic. 08

It should look like this after step2 and step 3 are finished. *(see pic. 11 and pic. 12)*



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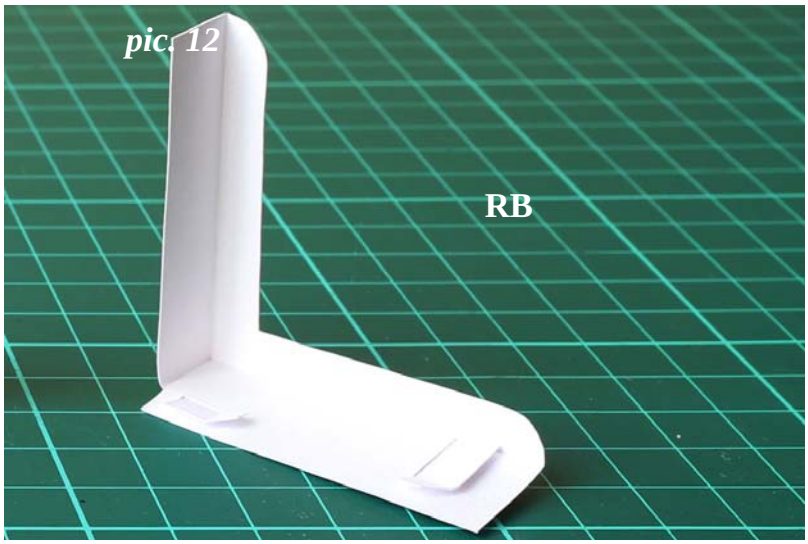
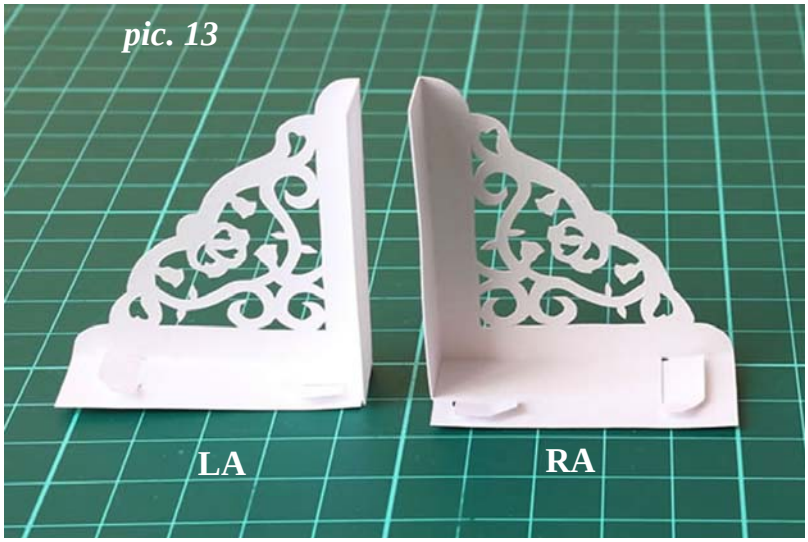


Step 4. Repeat step 2 and step 3 for the Part **LA** / Part **LB**.

It should look like this after step 4 is finished. *(see pic. 13 and pic. 14)*



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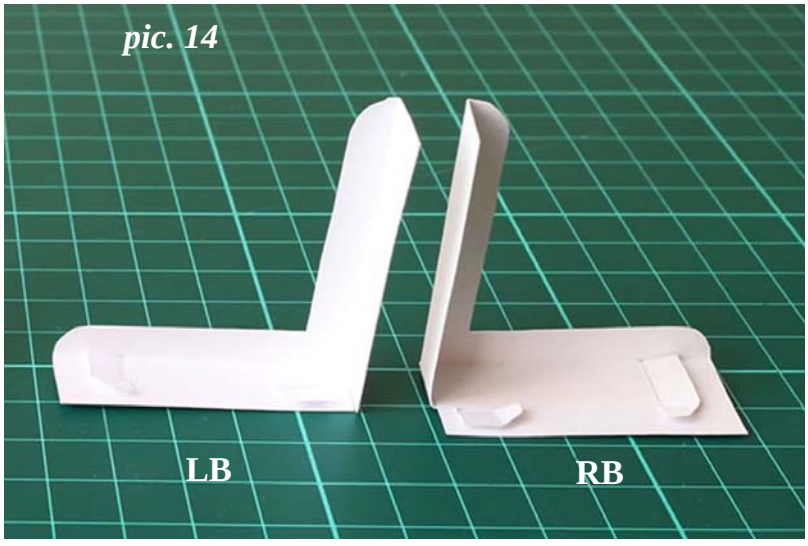
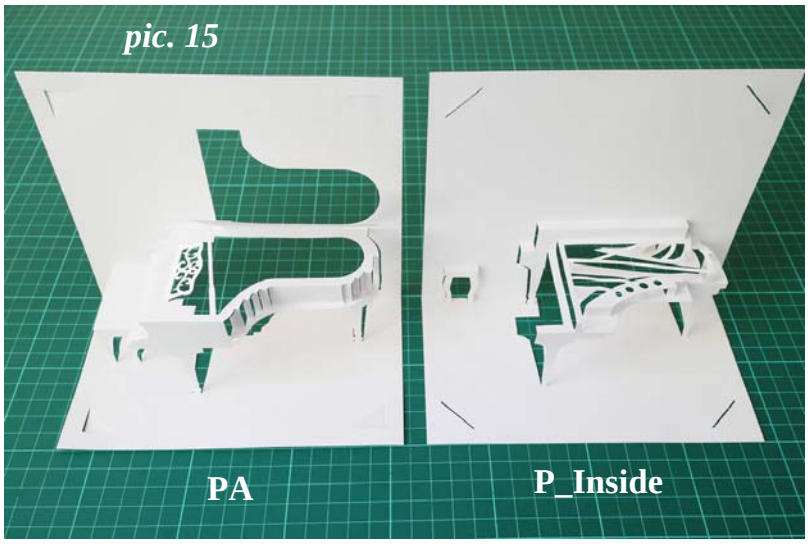


B. Combining the piano pop-up card

Parts: **PA**, **P_Inside / PB**, **P_Inside** *(see pic. 15 and pic. 16)*



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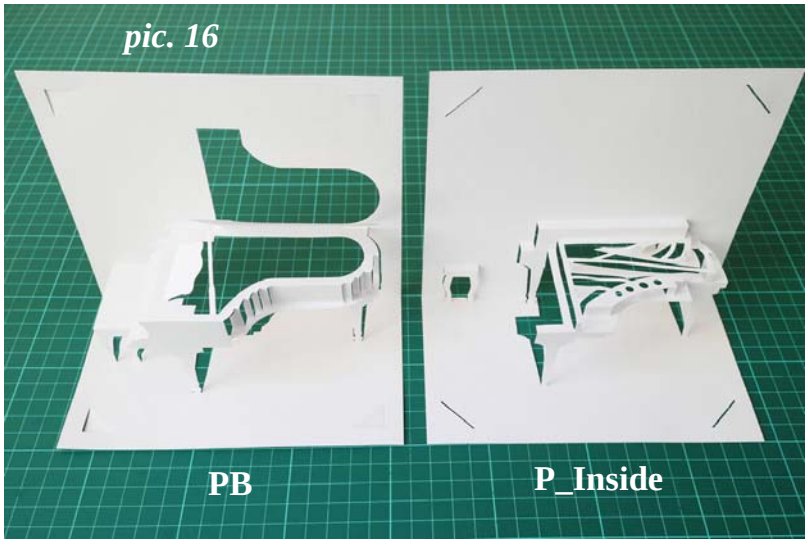
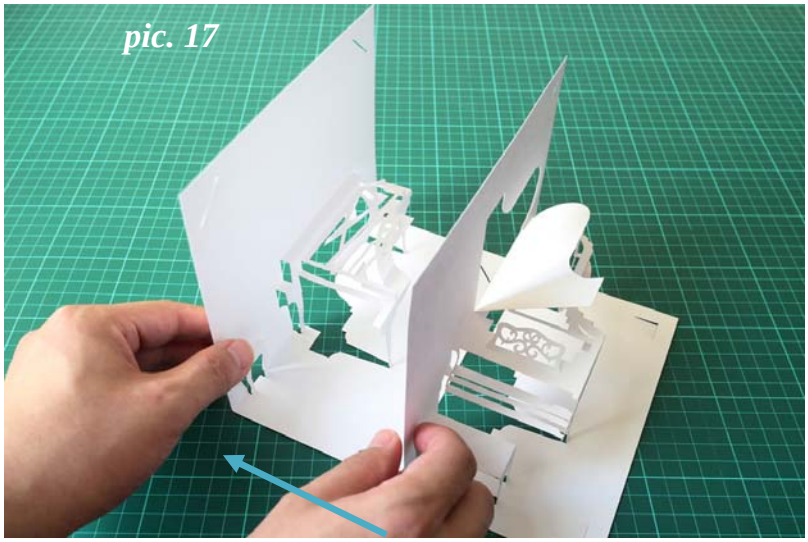
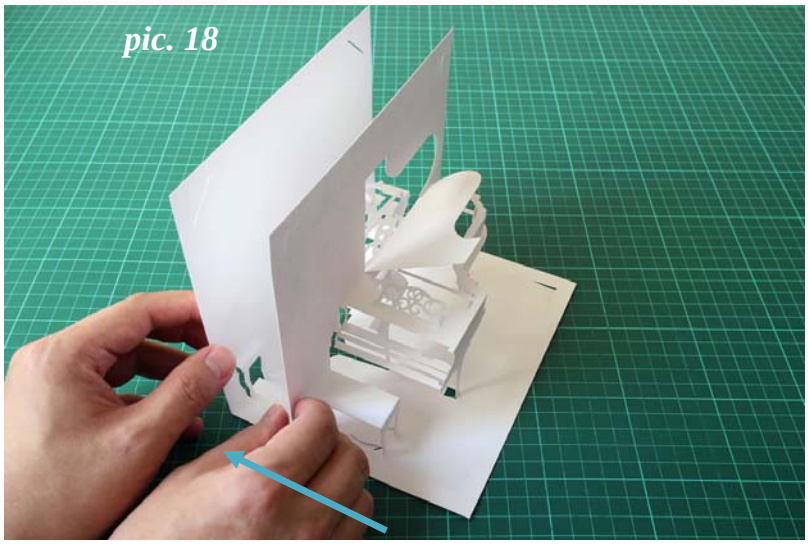
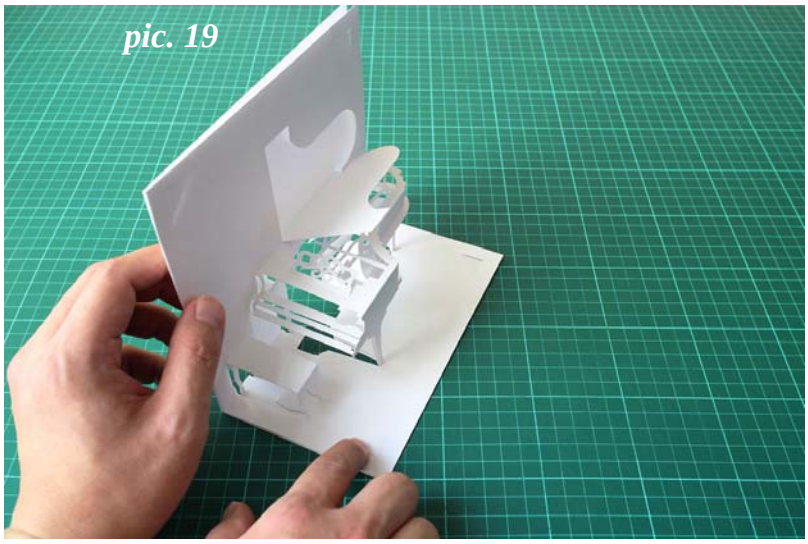
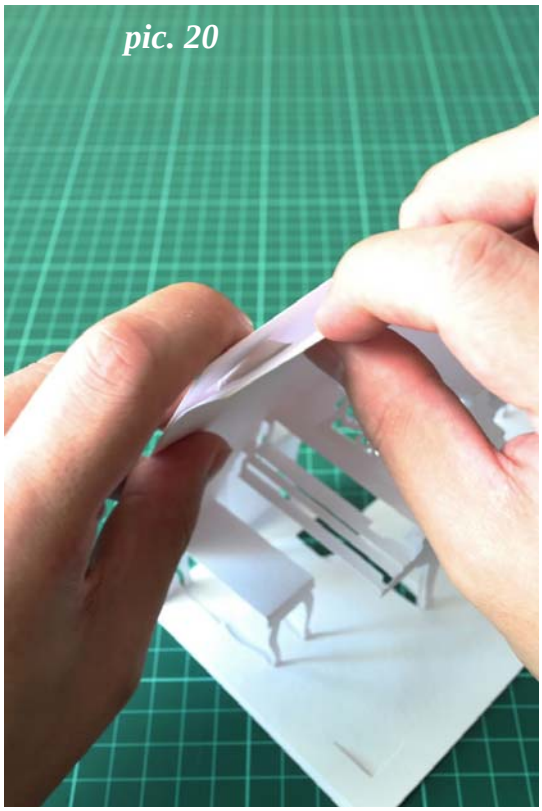


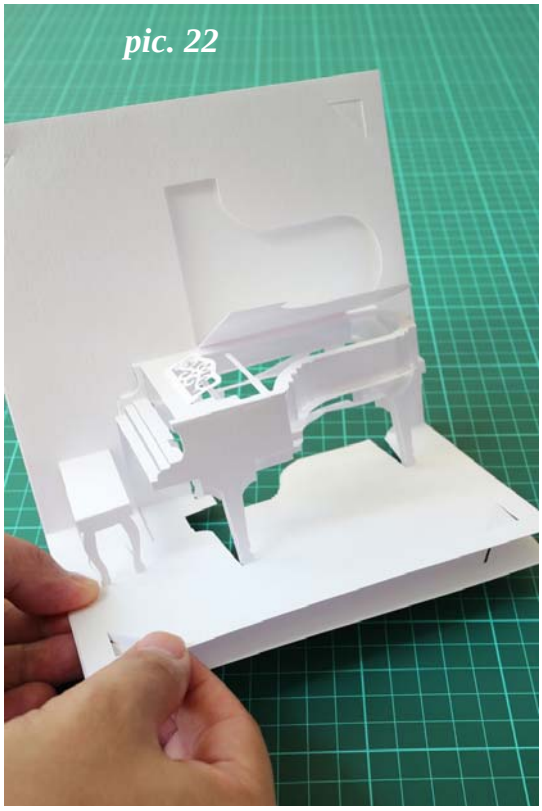
Step 5. Combine Part **PA**/ Part **PB** with Part **P_Inside** as shown. *(see pic. 17 – pic. 22)*









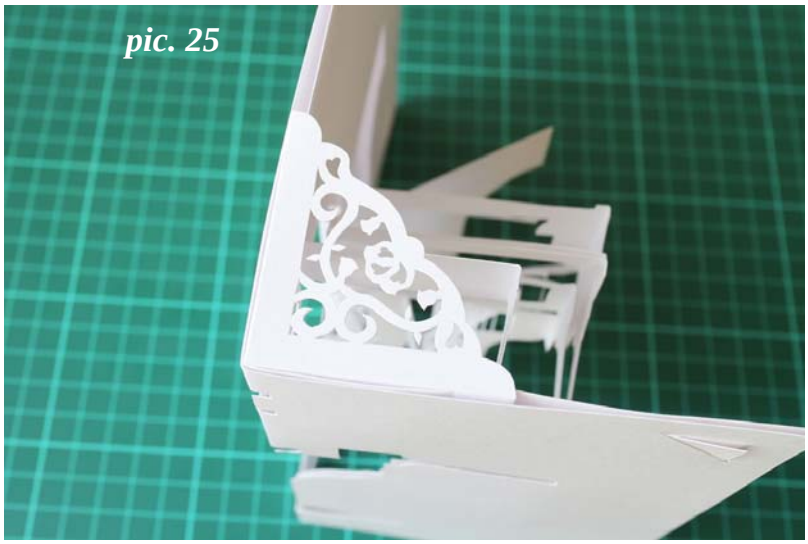


It should look like this after step 5 is finished. *(see pic. 23)*

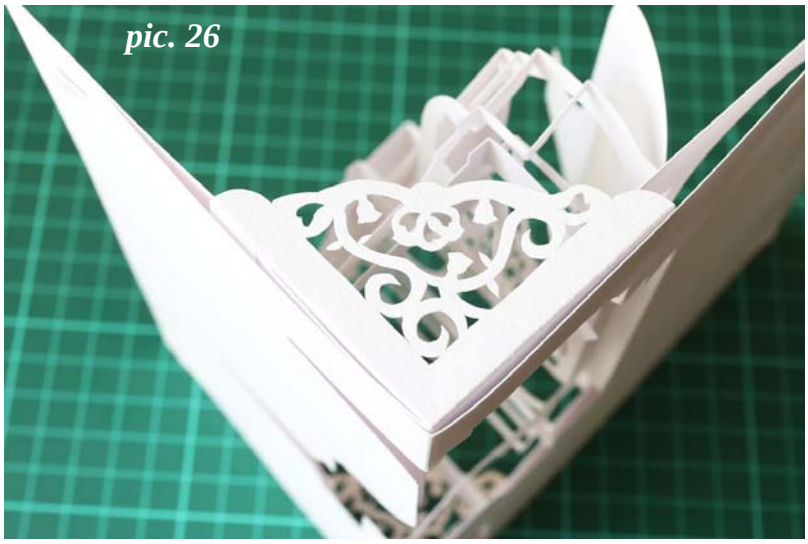
C. Inserting the stands

Parts: **PA**, **P_Inside** , **LA**, **RA / PB**, **P_Inside** , **LB**, **RB**

Step 6. Insert the left stand and right stand as shown. *(see pic. 24 – pic. 26)*

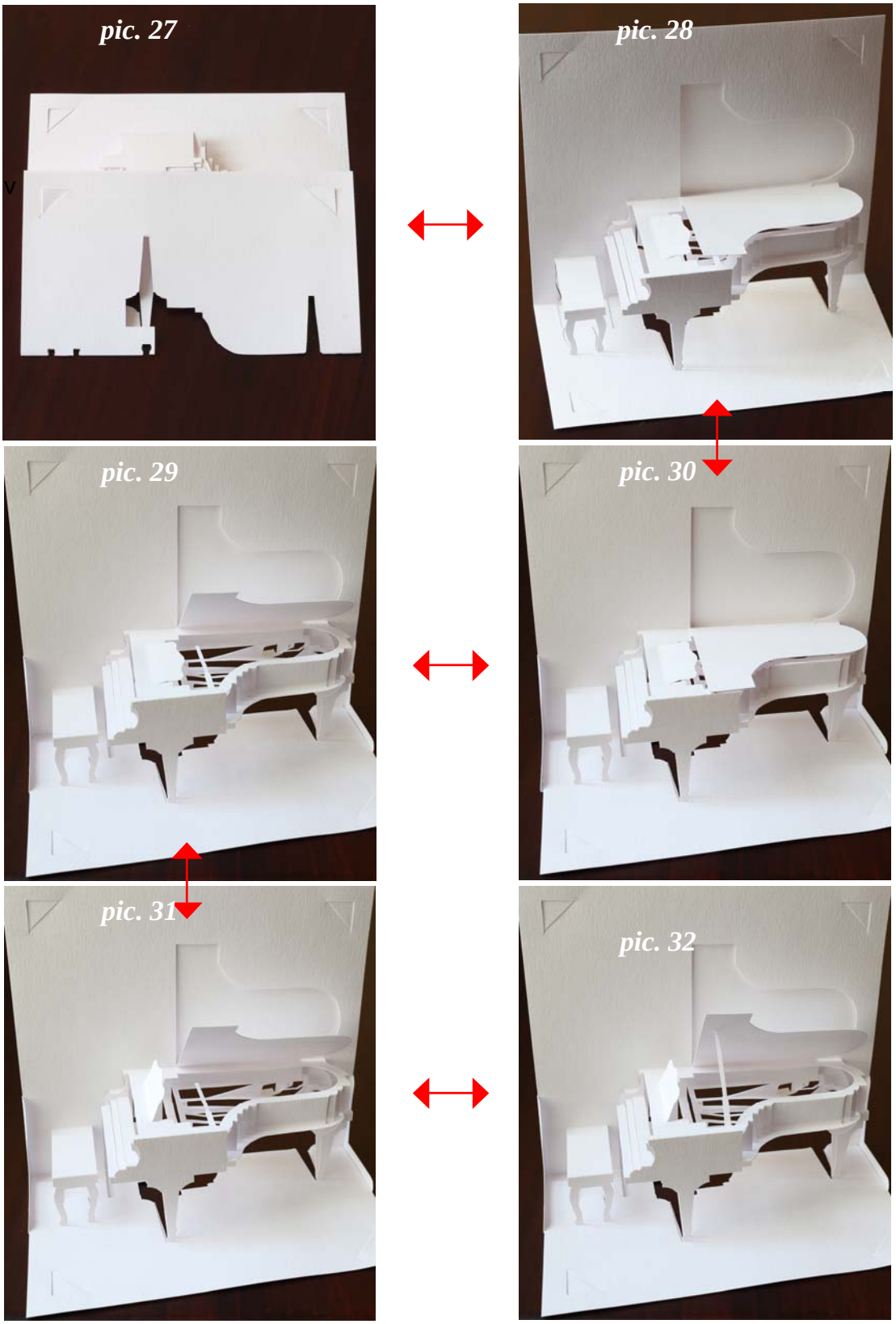


pic. 25



pic. 26

D. Open and close procedures *(see pic. 27 – pic. 31)*



End

P_Inside

Pattern Sheet

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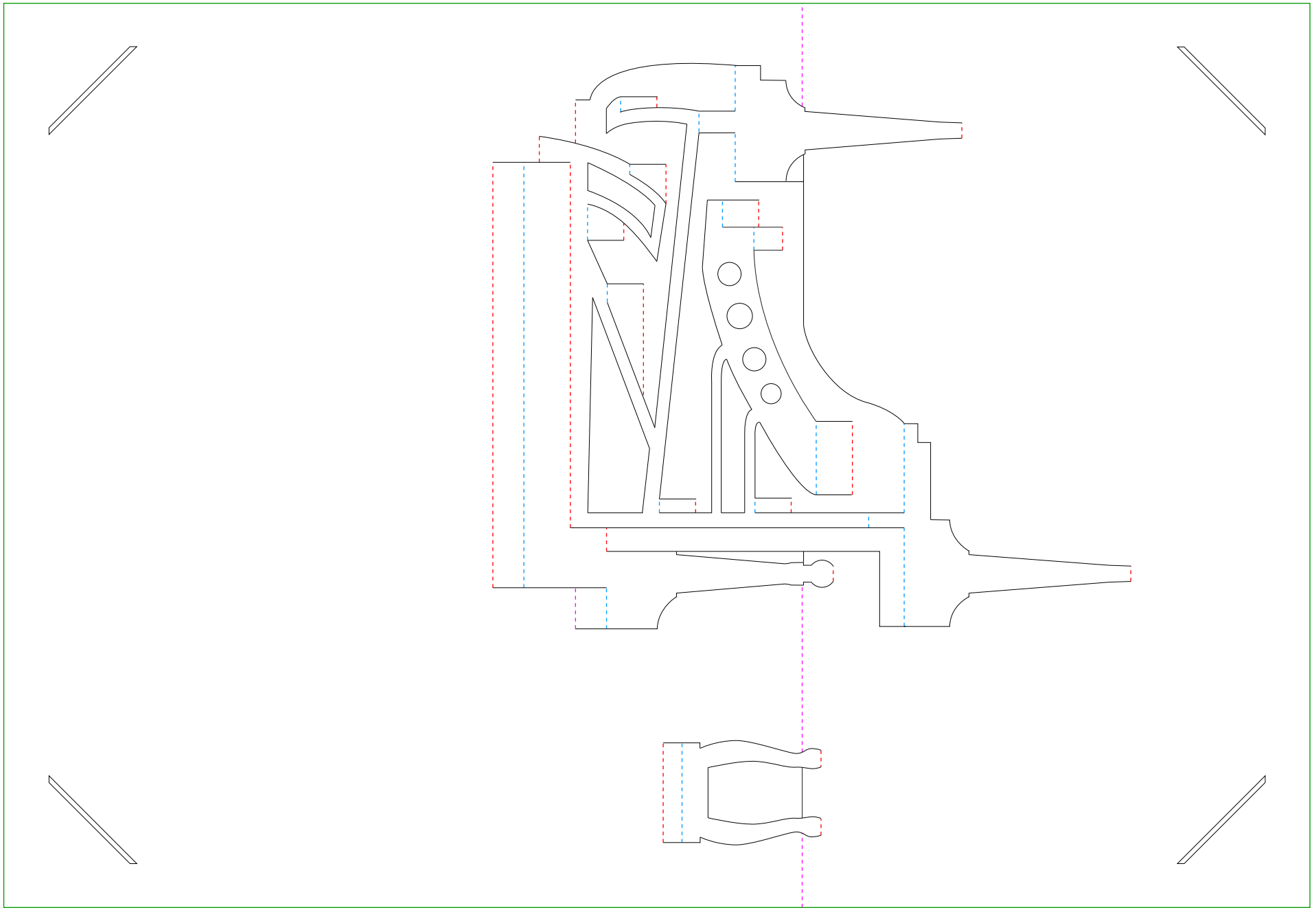

P_Inside **Valley Fold-lines Pattern Sheet**

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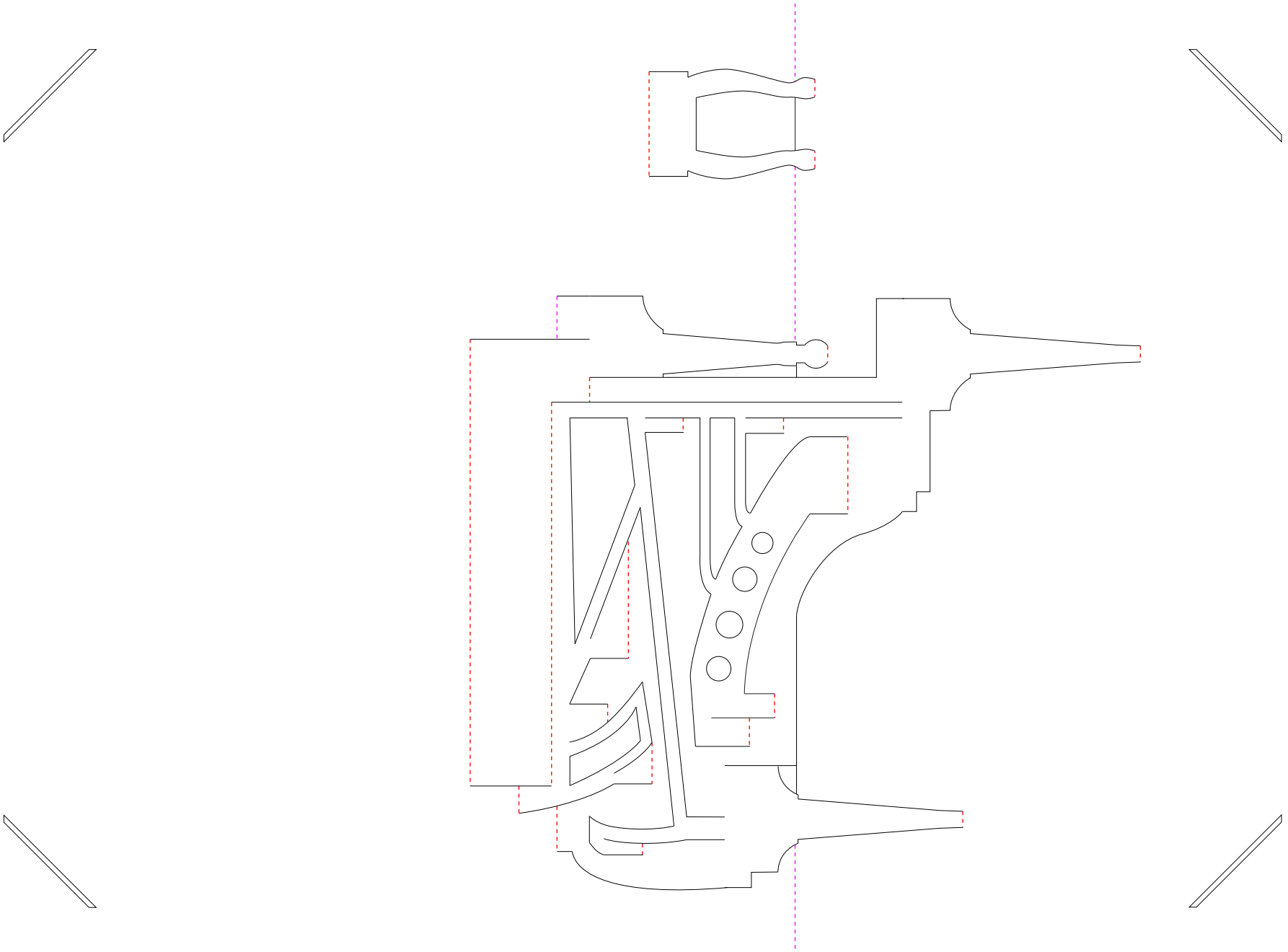

PA

Pattern Sheet

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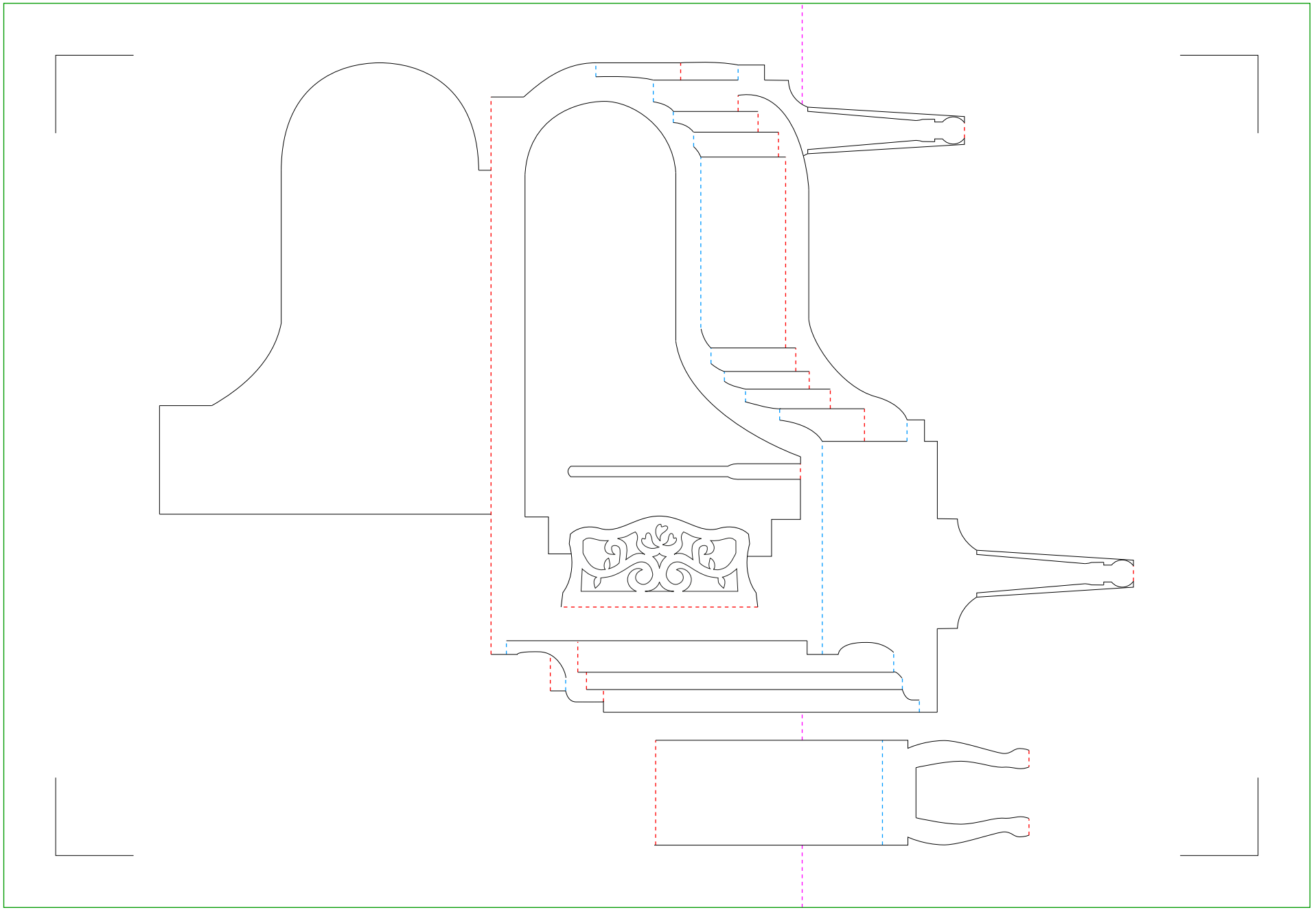

PA

Valley Fold-lines Pattern Sheet

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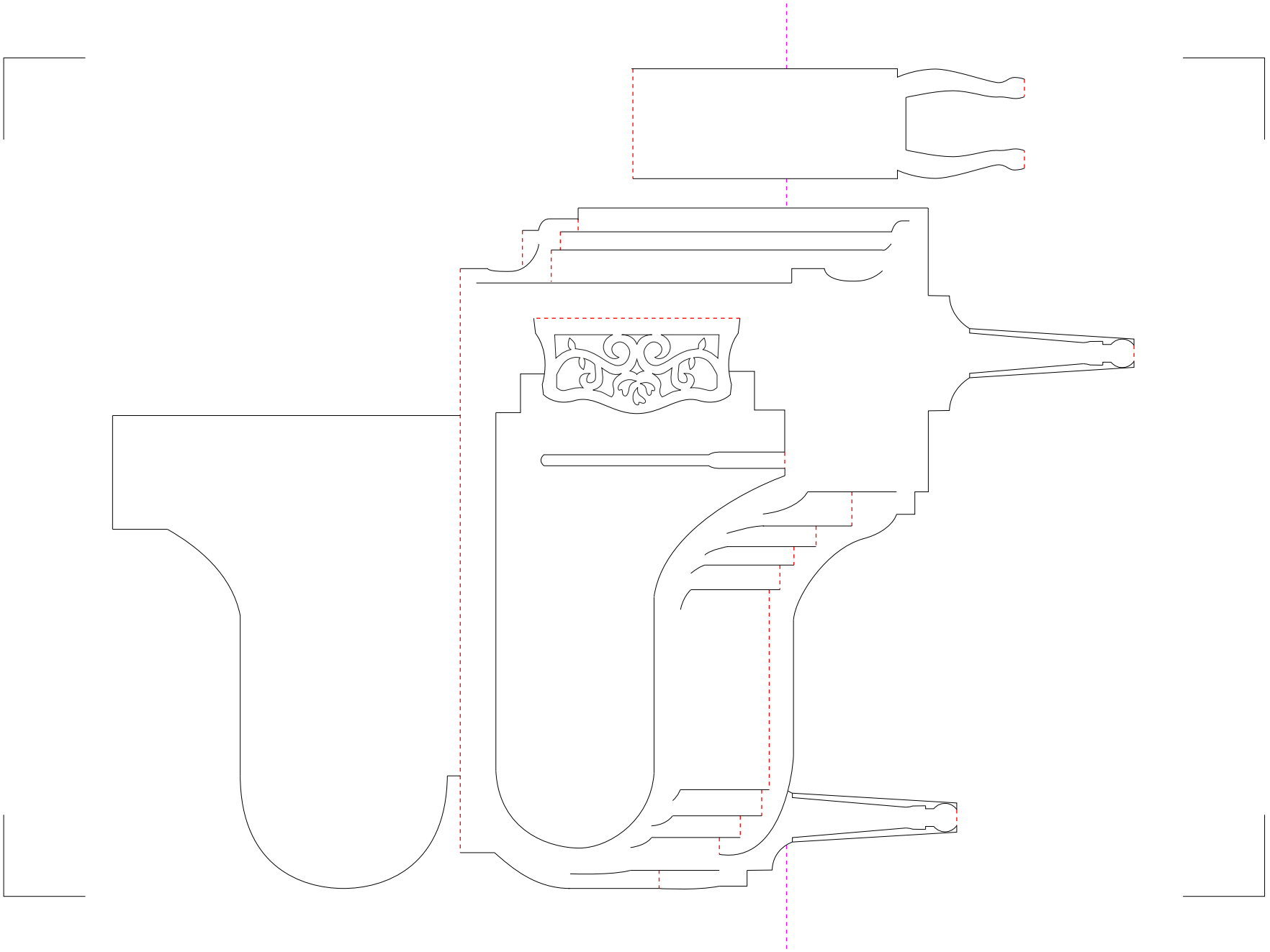

PB

Pattern Sheet

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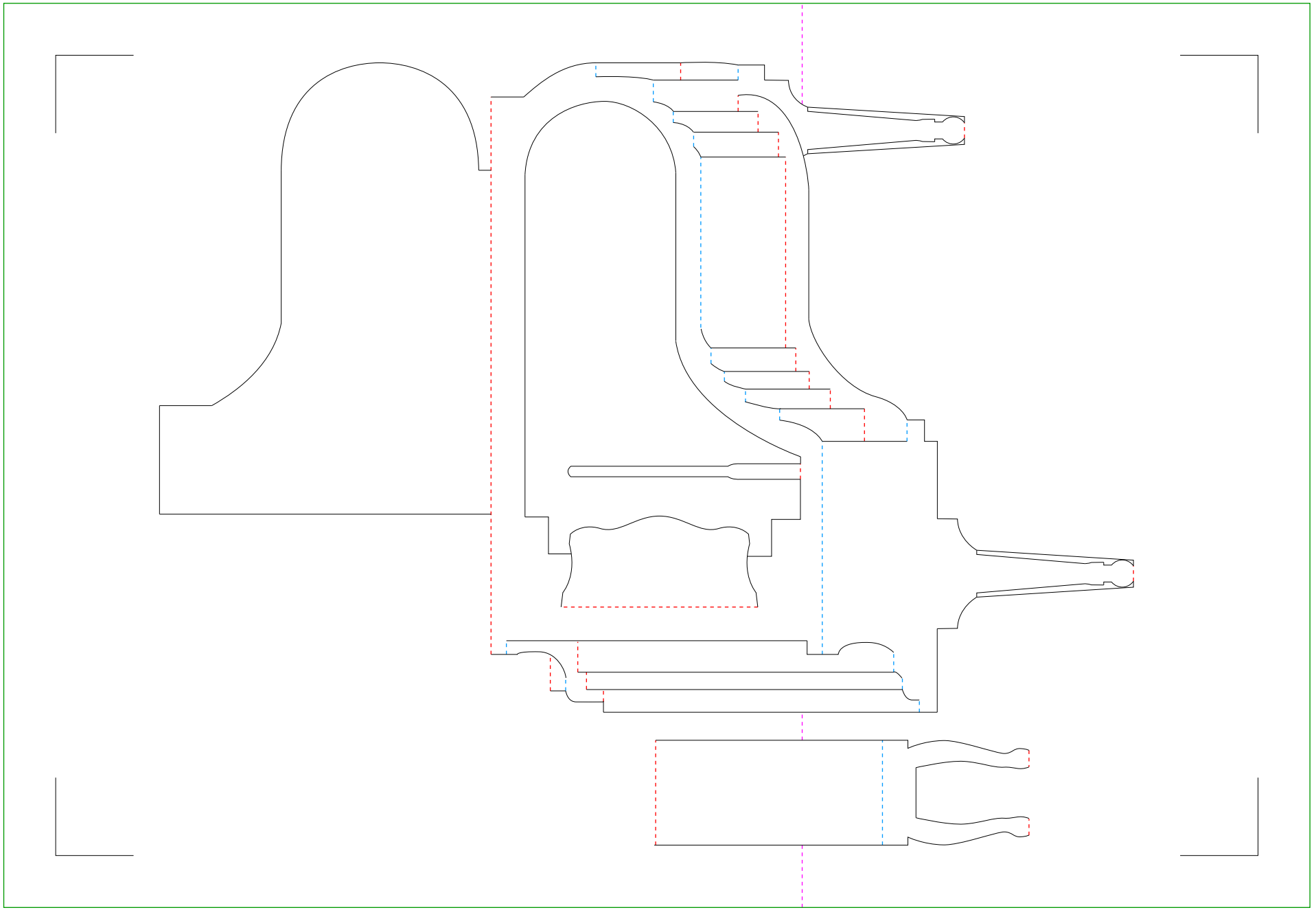

PB

Valley Fold-lines Pattern Sheet

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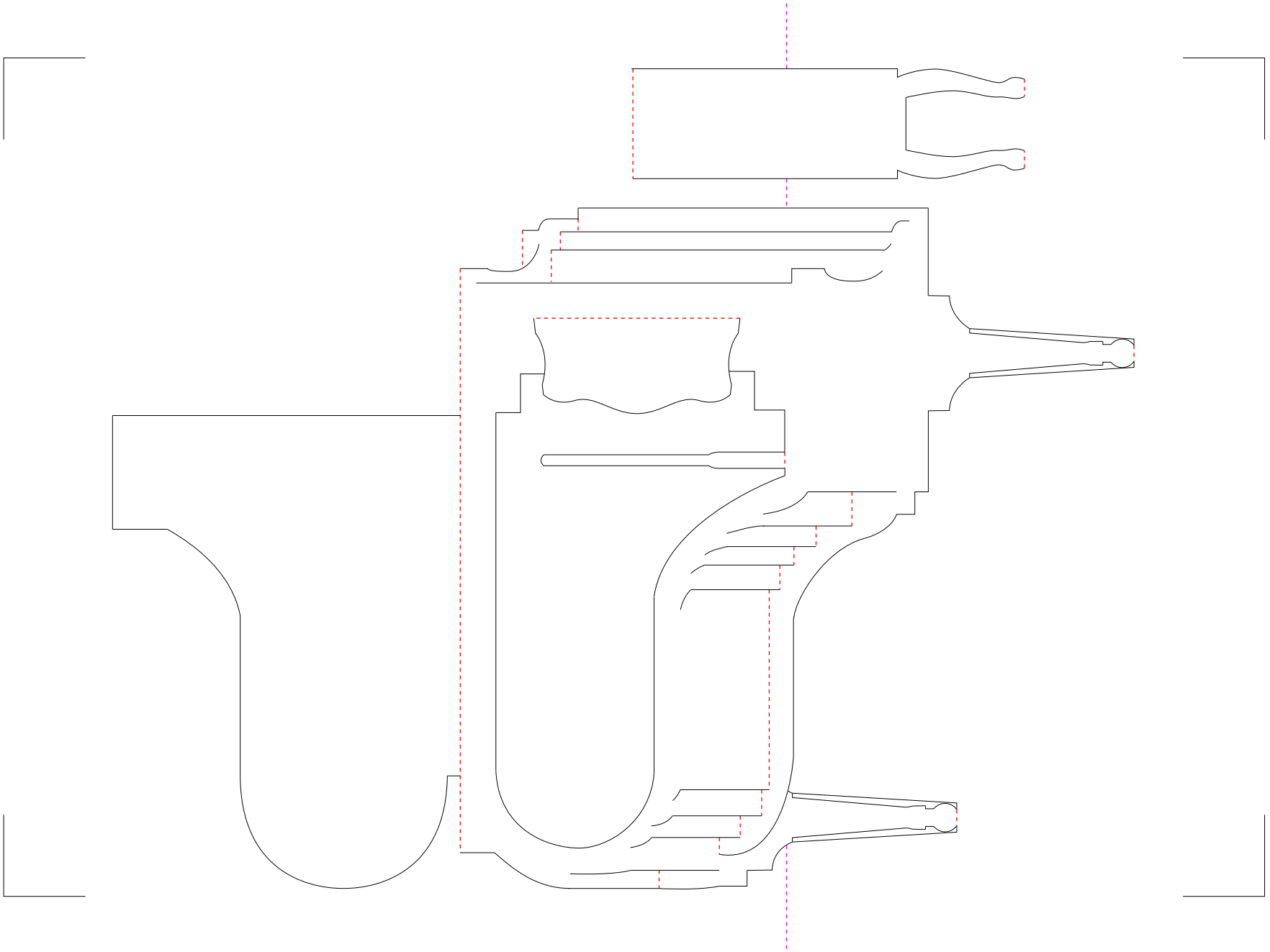
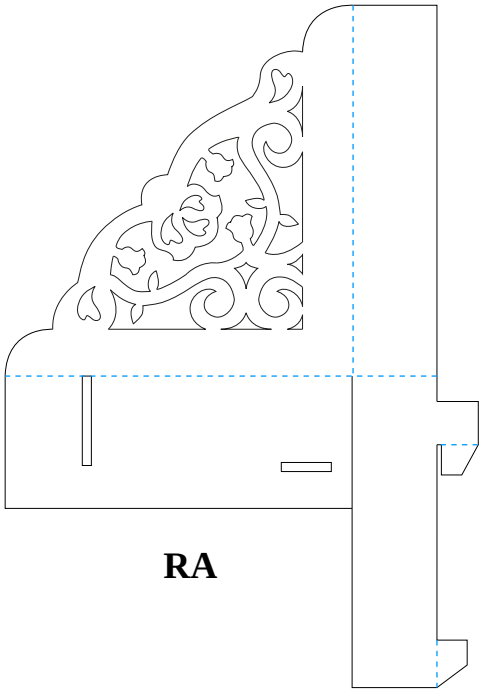
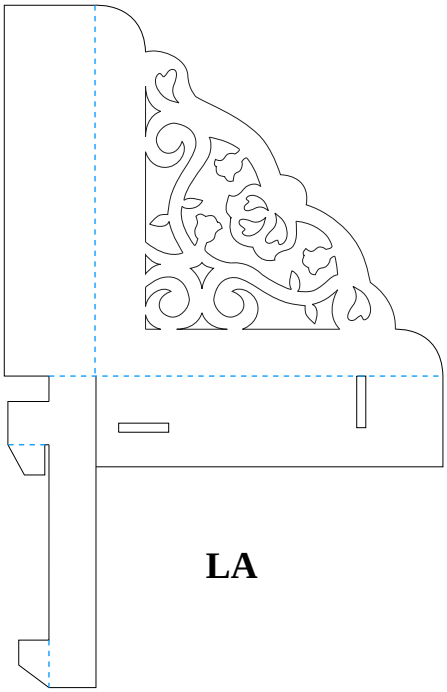
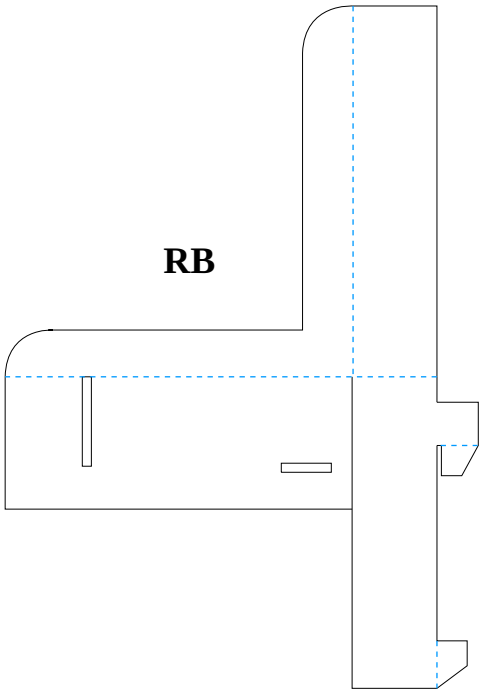




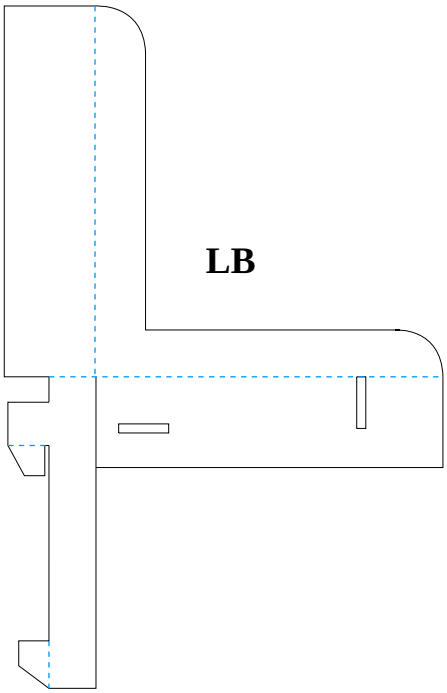
RA



LA



RB



LB

Pattern Sheet

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10. Christmas House

Copyrighted Material

Copyrighted Material

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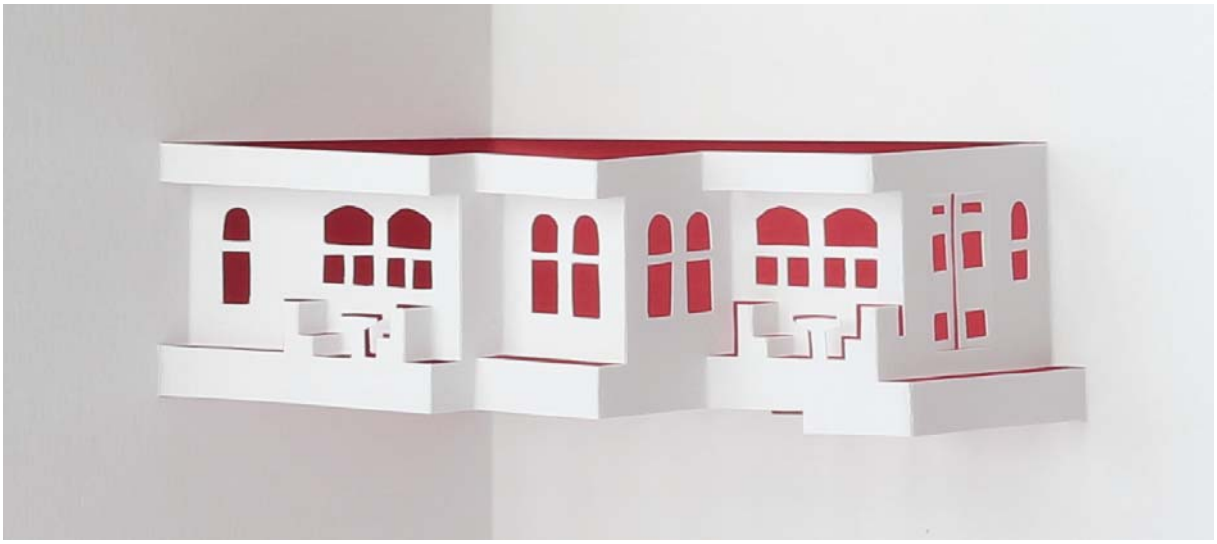

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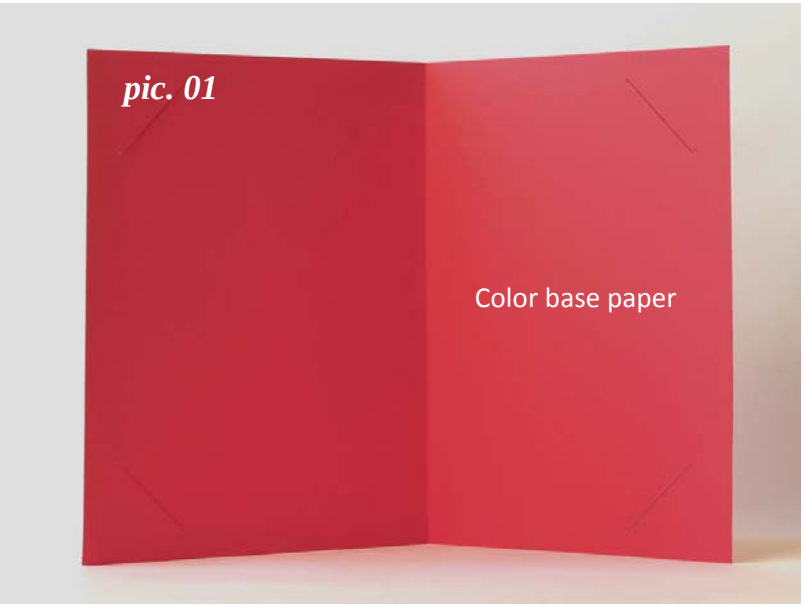
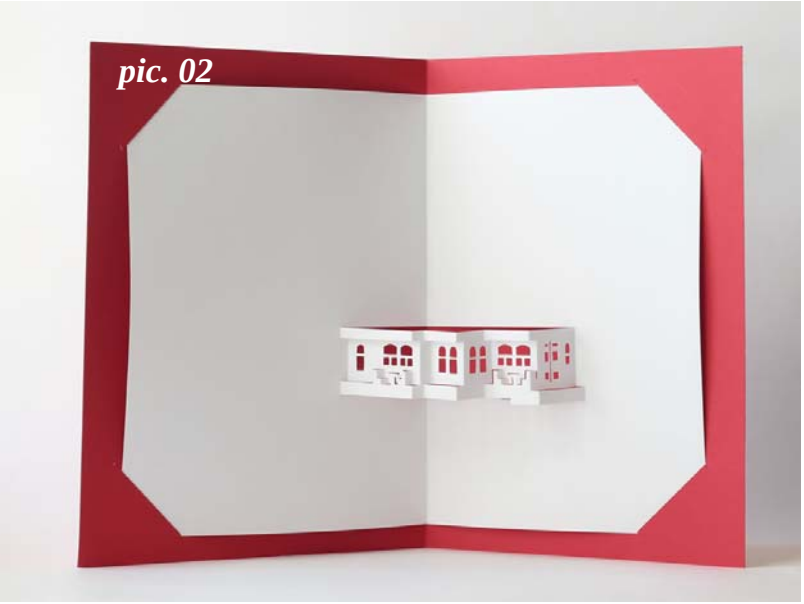
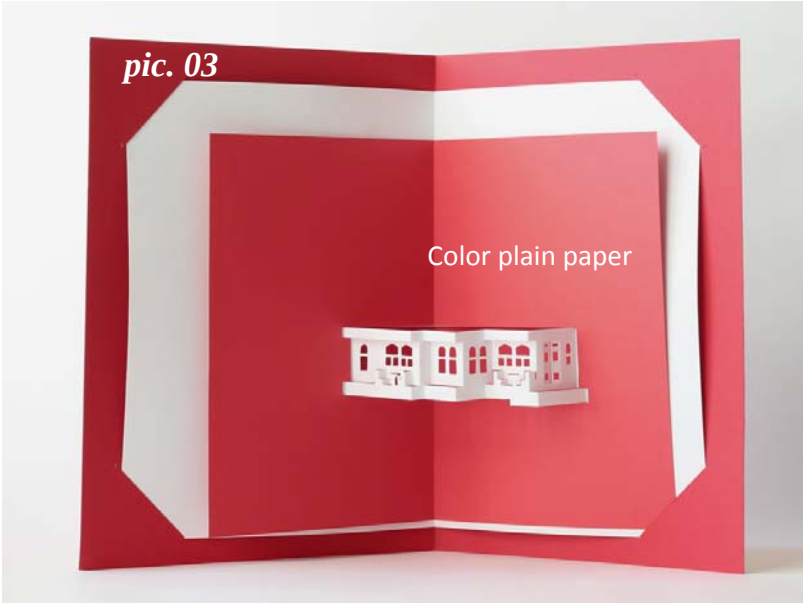
Instructions for Christmas House Pop-up Card

Guidelines for choosing paper			
Pattern Sheet size	**Card paper**	**Color base paper**	**Color plain paper**
A4	weight around 180gsm	weight > 200gsm	weight around 80gsm
A3	weight around 200gsm	weight > 300gsm	

Combine all finished paper parts as shown. *(see pic. 01 - pic.04)*







End

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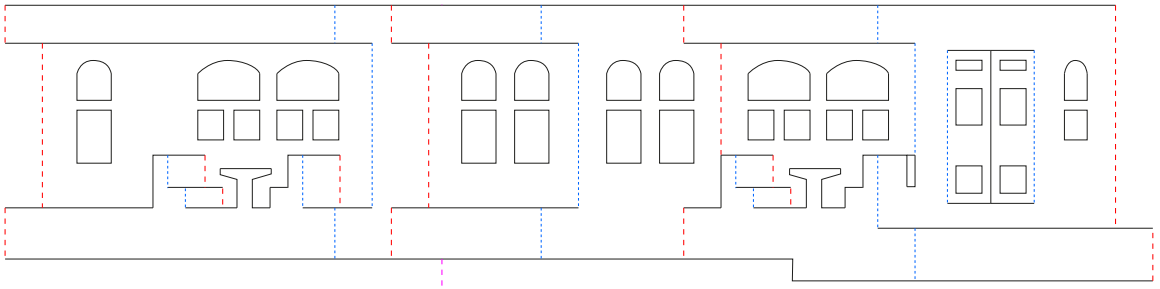

Valley Fold-lines Pattern Sheet (A4 size)

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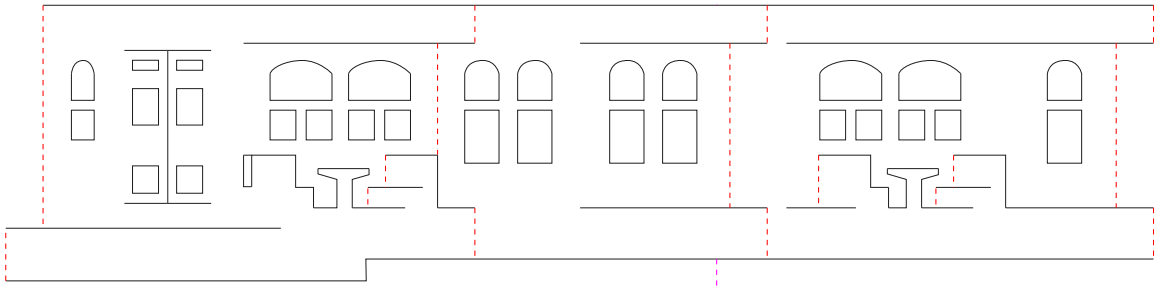

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Valley Fold-lines Pattern Sheet (A4 size)

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Color plain paper

Pattern Sheet (A4 size)

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Pattern Sheet (A3 size)

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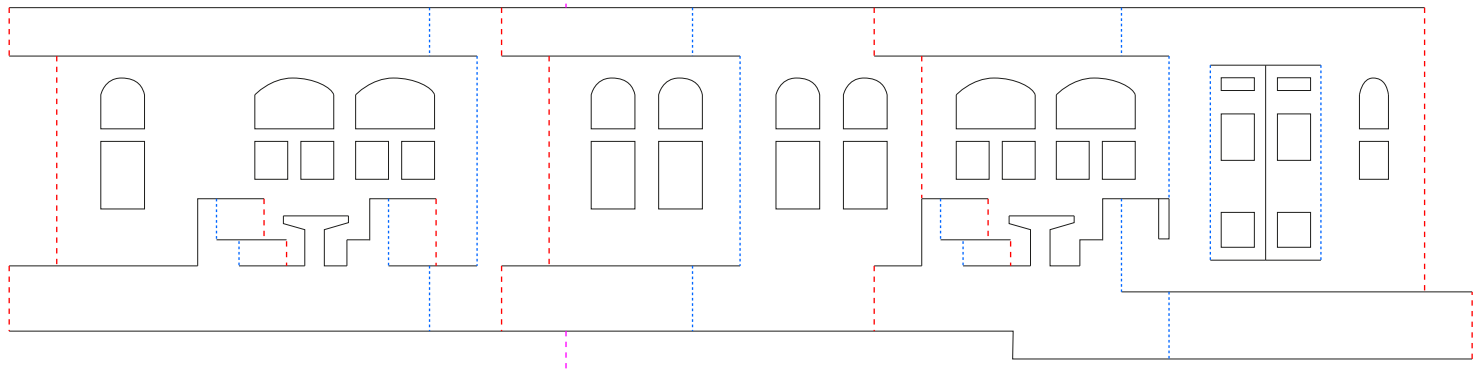

at least 22 cm

at least 19.5 cm

Valley Fold-lines Pattern Sheet (A3 size)

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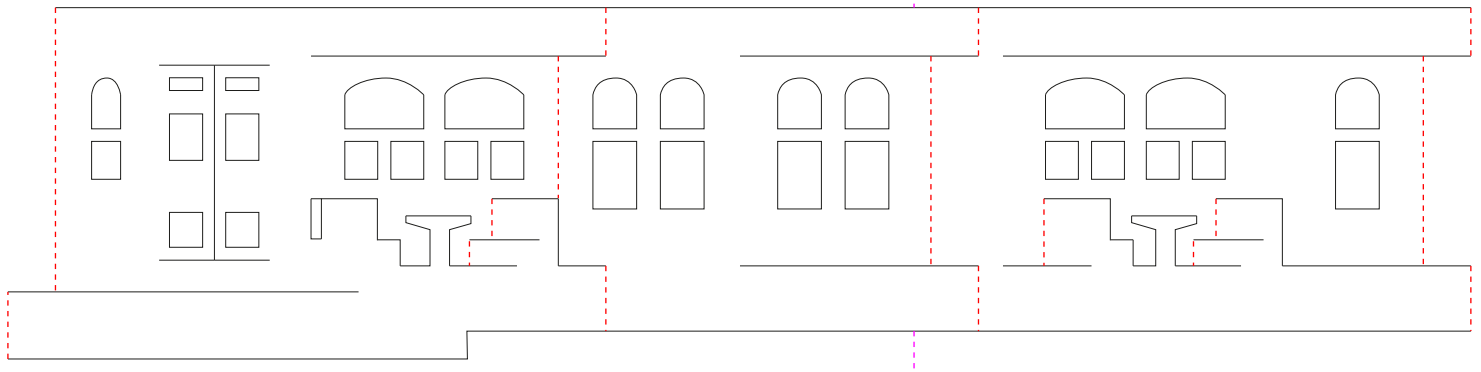

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at least 22 cm

at least 19.5 cm

Valley Fold-lines Pattern Sheet (A3 size)

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Color plain paper Pattern Sheet (A3 size)

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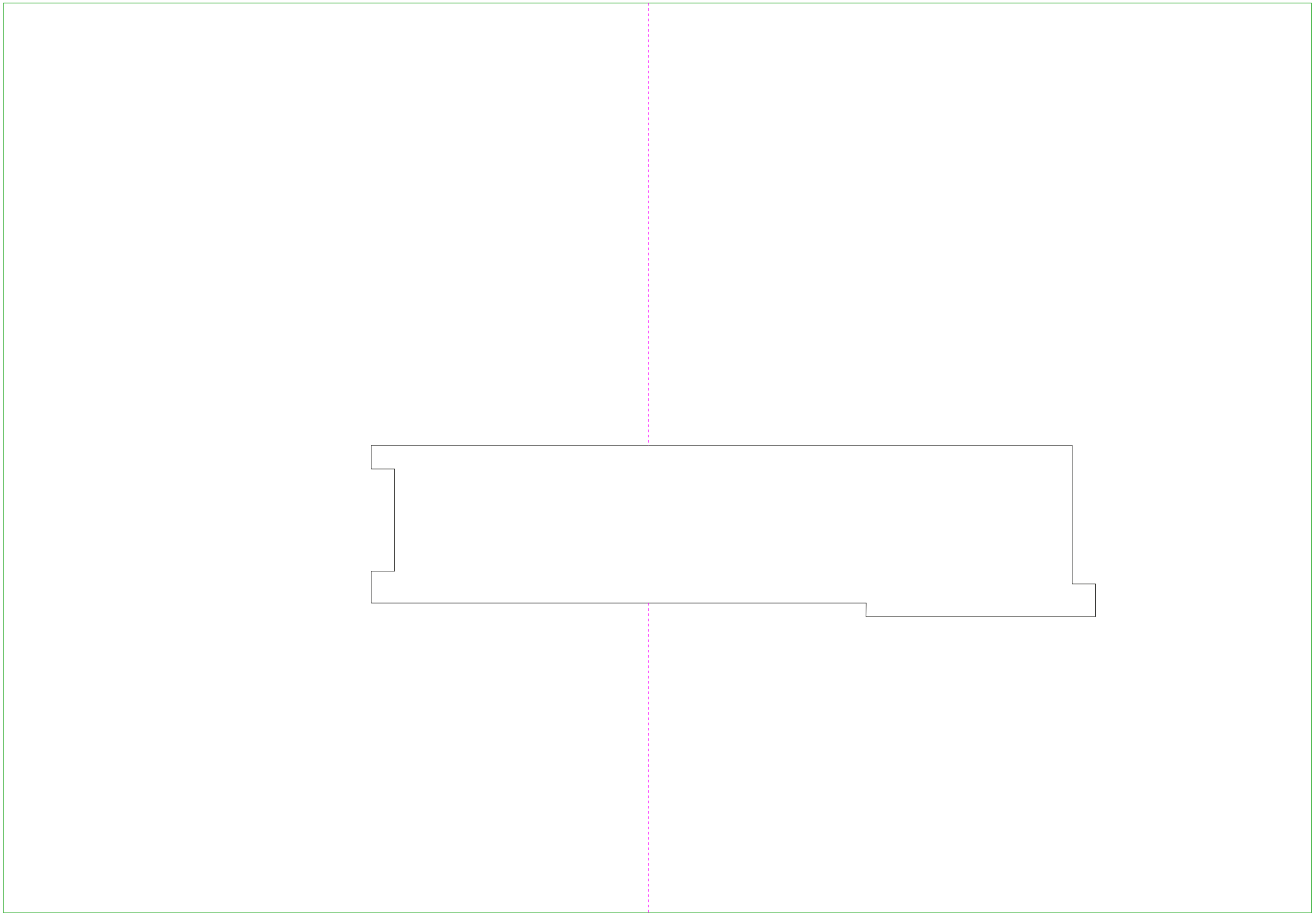
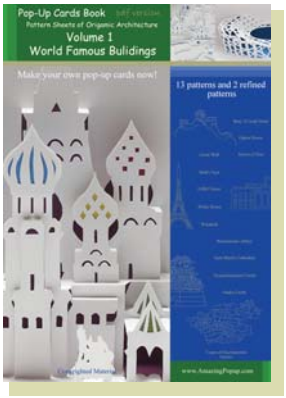


THANK YOU for buying our Pop-up cards Ebook !

The End

Volume 1 World Famous Buildings

1. Burj Al Arab Hotel
2. Eiffel Tower
3. Great Wall
4. Windmill
5. Opera House
6. White House
7. White House(refined)
8. Tower of Pisa
9. Westminster Abbey
10. National Stadium
11. Saint Basil's Cathedral
12. Neuschwanstein Castle
13. Neuschwanstein Castle(refined)
14. Osaka Castle
15. Coast of Oia,Santorini Greece
16. Coast of Oia,Santorini Greece(color)



Volume 3 Special Occasions

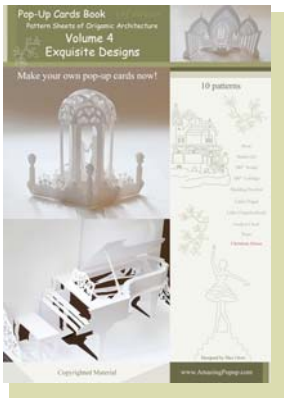
1. Moon Night
2. Heart
3. Lovely Bear
4. Two Swans
5. Wedding Cake
6. Lovely House
7. Little Church
8. Flower Bouquet
9. Birthday Cake
10. Birthday Cake(color)
11. 90° Christmas Tree
12. Santa Mouse
13. Snowflake
14. Santa & Reindeer
15. 180° Christmas Tree

Volume 2 Assorted Pop-up Cards

1. Doves
2. Butterfly
3. Tulips
4. Kitten
5. Dolphins
6. Peacock
7. Little Farm
8. Coral Reef Fishes
9. Sailing Yacht
10. Cinderella Coach
11. Ferris Wheel
12. Steam Locomotive
13. Racing Car
14. Titanic

Volume 4 Exquisite Designs

1. Rose
2. Ballet Girl
3. 180 Degree Swans
4. 180 Degree Carriage
5. Wedding Pavilion
6. Little Chapel
7. Little Chapel(Refined)
8. Cuckoo Clock
9. Piano
10. Christmas House



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