



## Metalwork

### Aluminum Panels

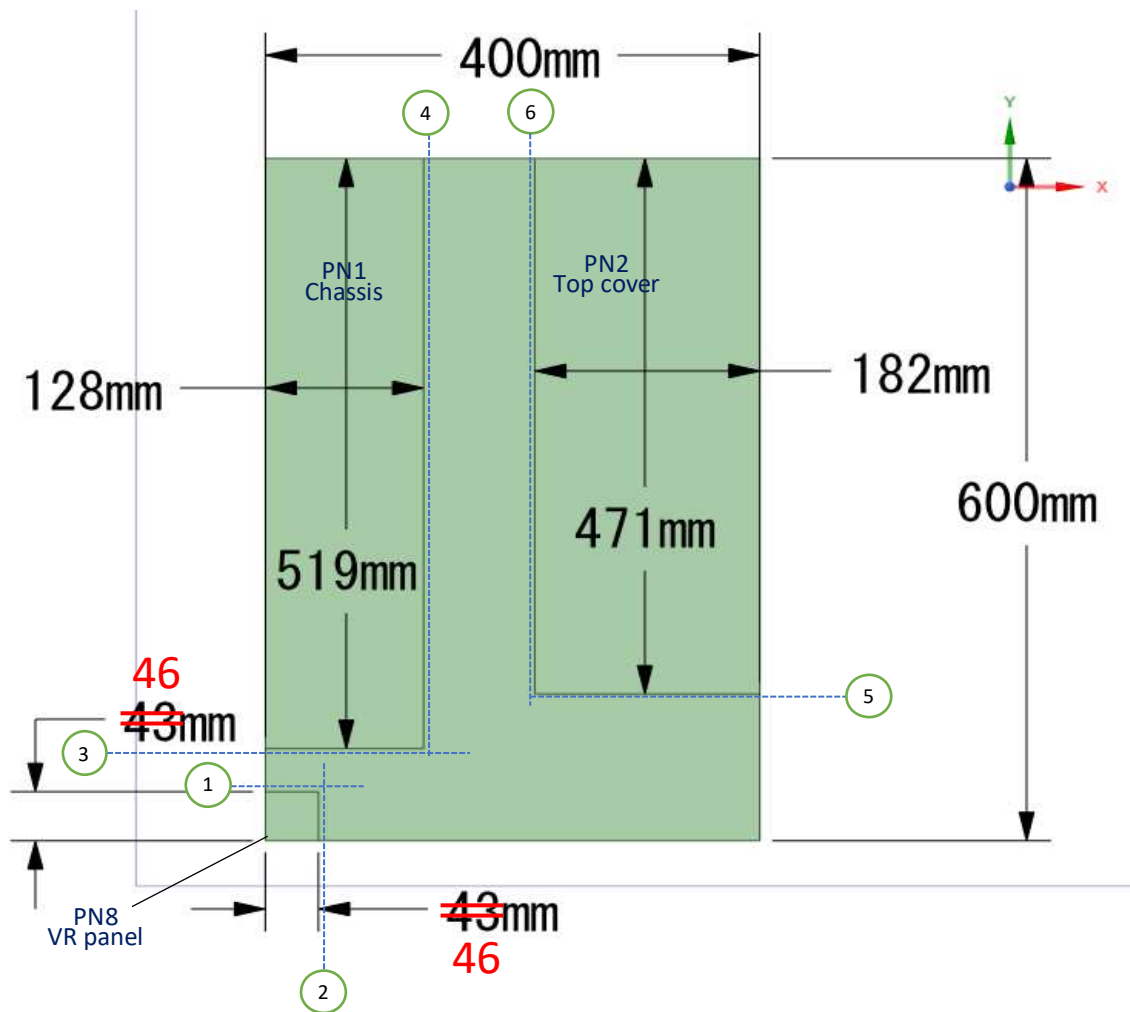
#### \* Cutout

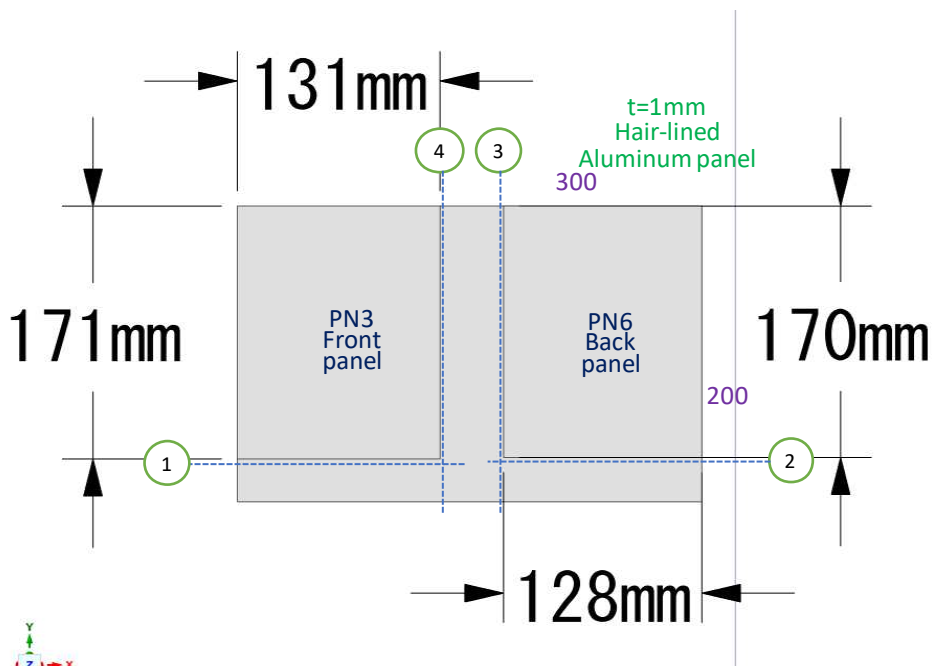
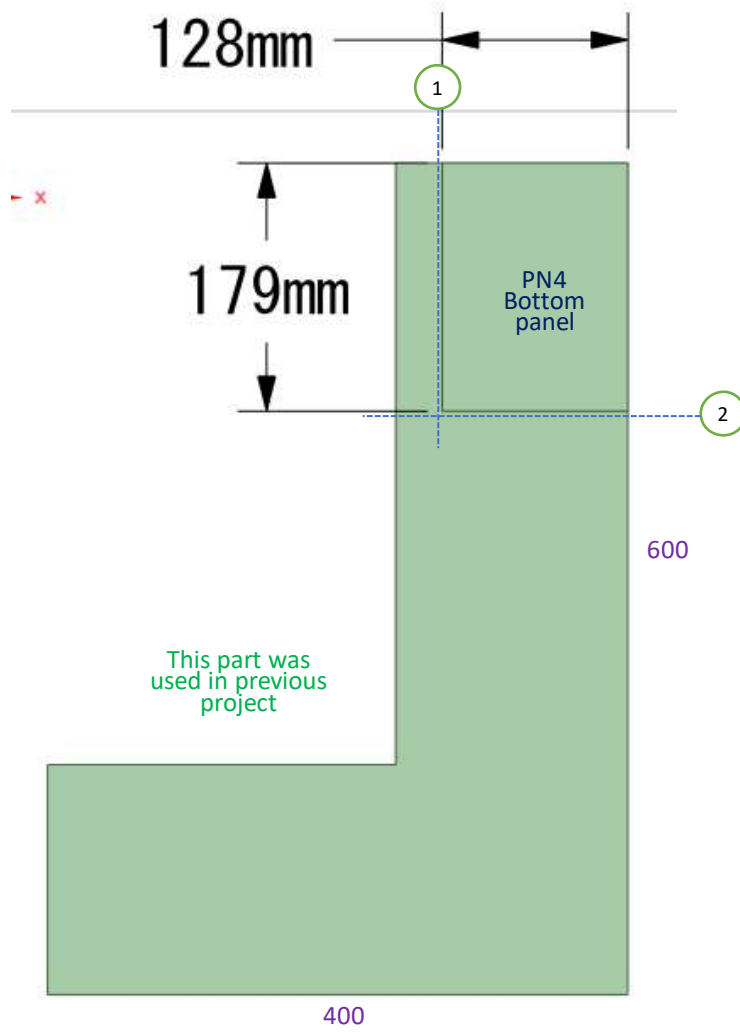
Aluminum panels, PN1-2, PN4, PN8-10, are cut out from two (2) aluminum panels whose dimension is 1 x 600 x 400mm.

Aluminum panels, PN3, PN6, are cut out from one (1) white-painted aluminum panels whose dimension is 1 x 300 x 200mm.

Tools: power jigsaw, linear guide, flat file

Margin: 2mm (confirm it when #1 and #2 are cut)

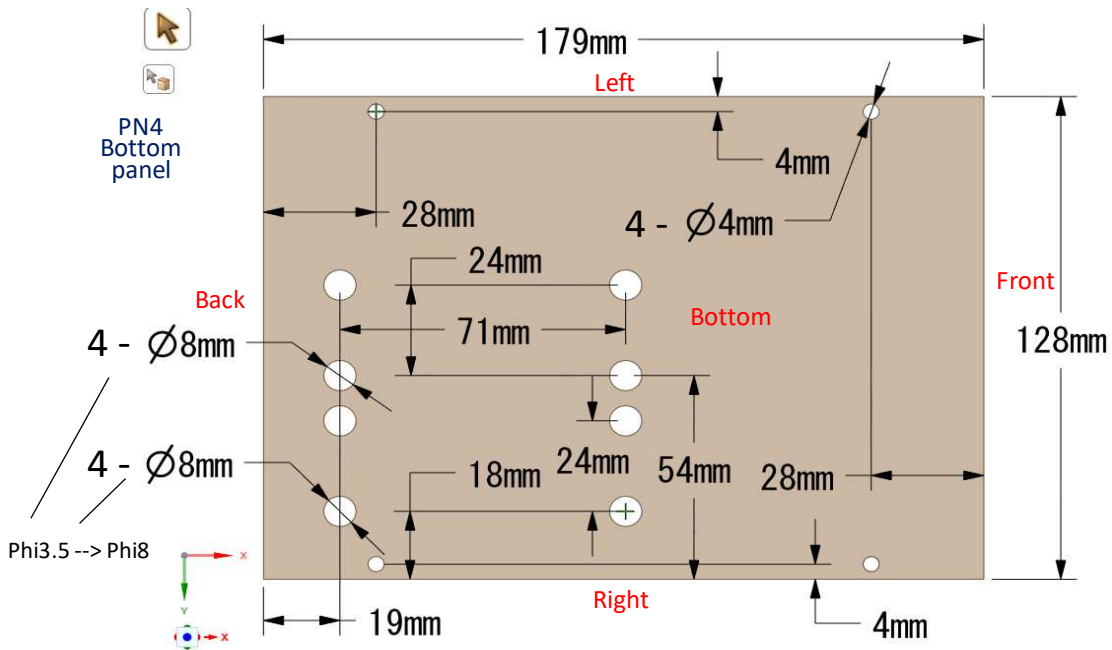
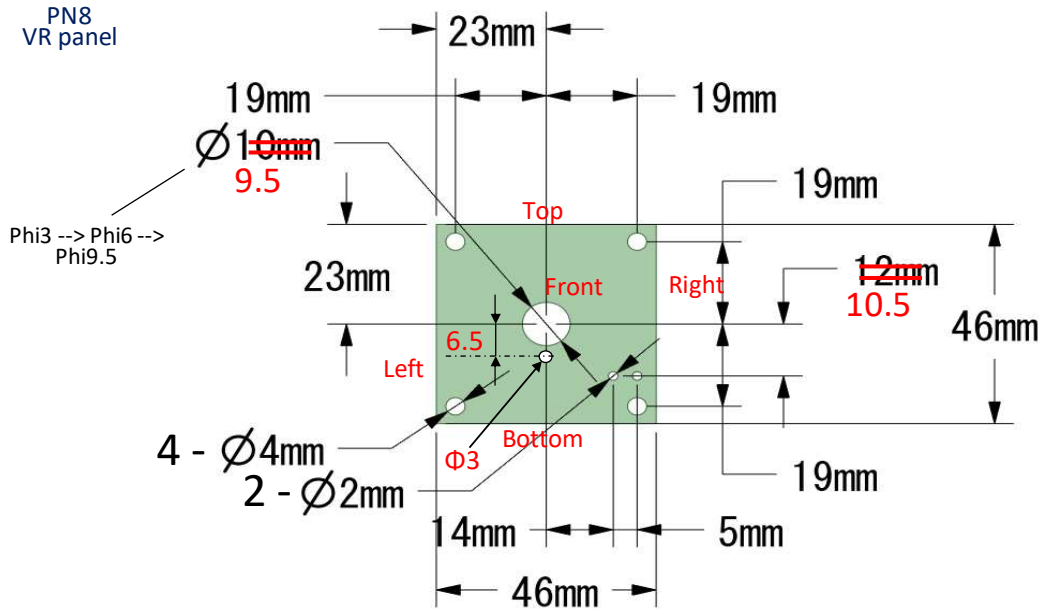


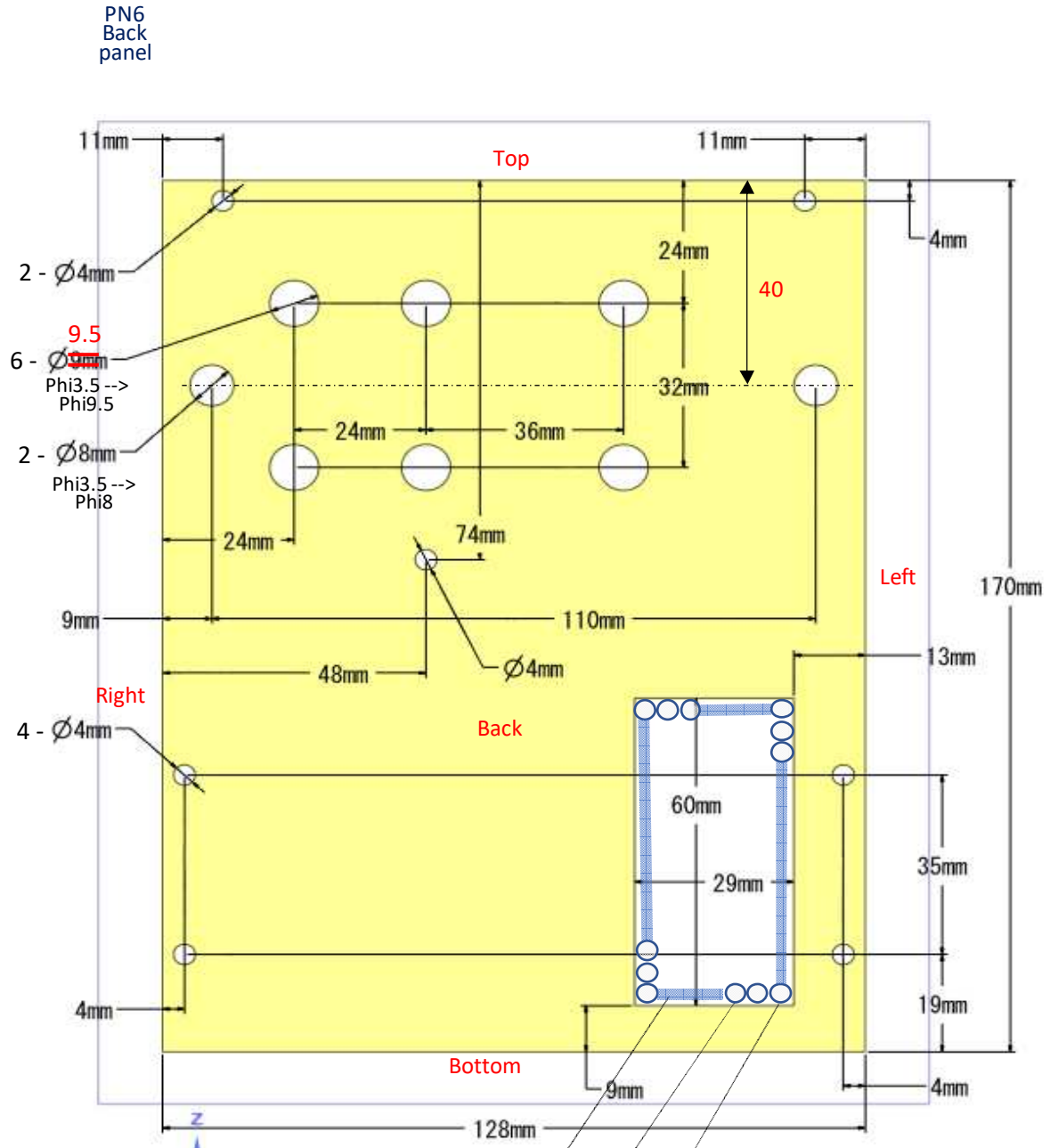


**\* Drilling**

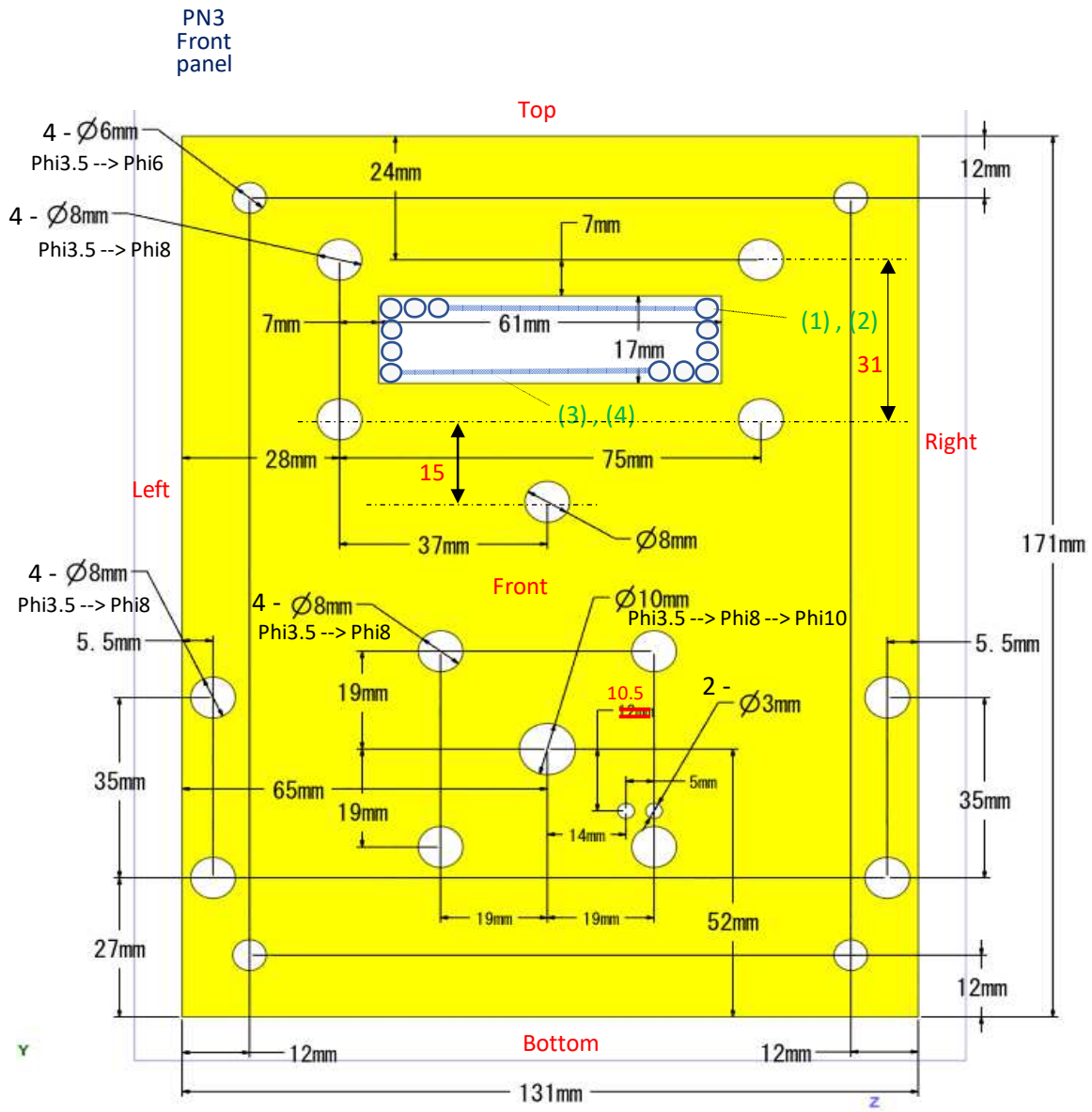
Process the panels in ascending order of size.

Tools: centerpunch, drilling press, round file, flat file, metal saw

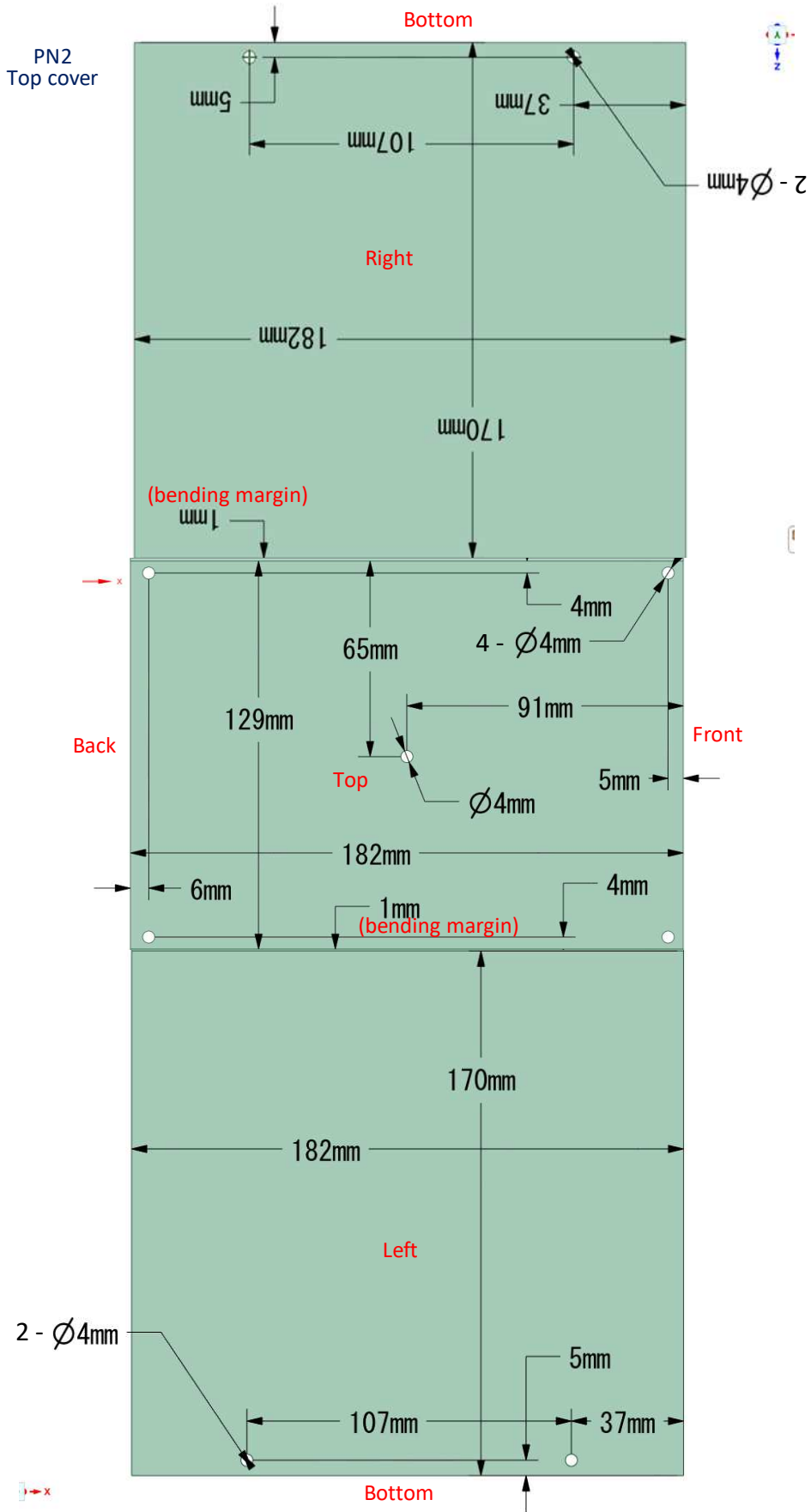


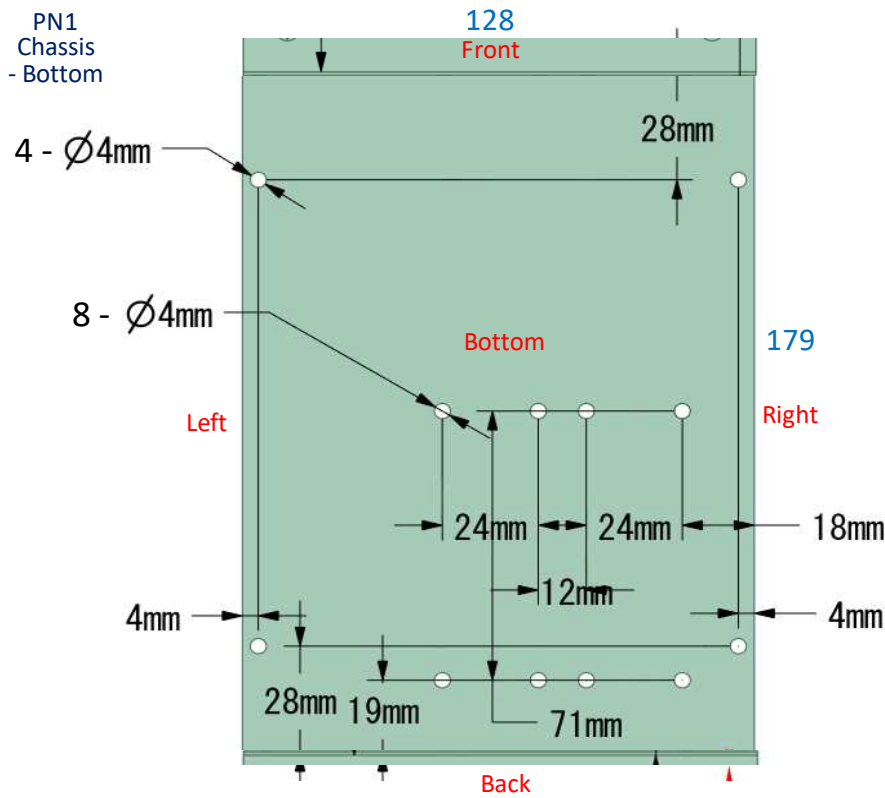
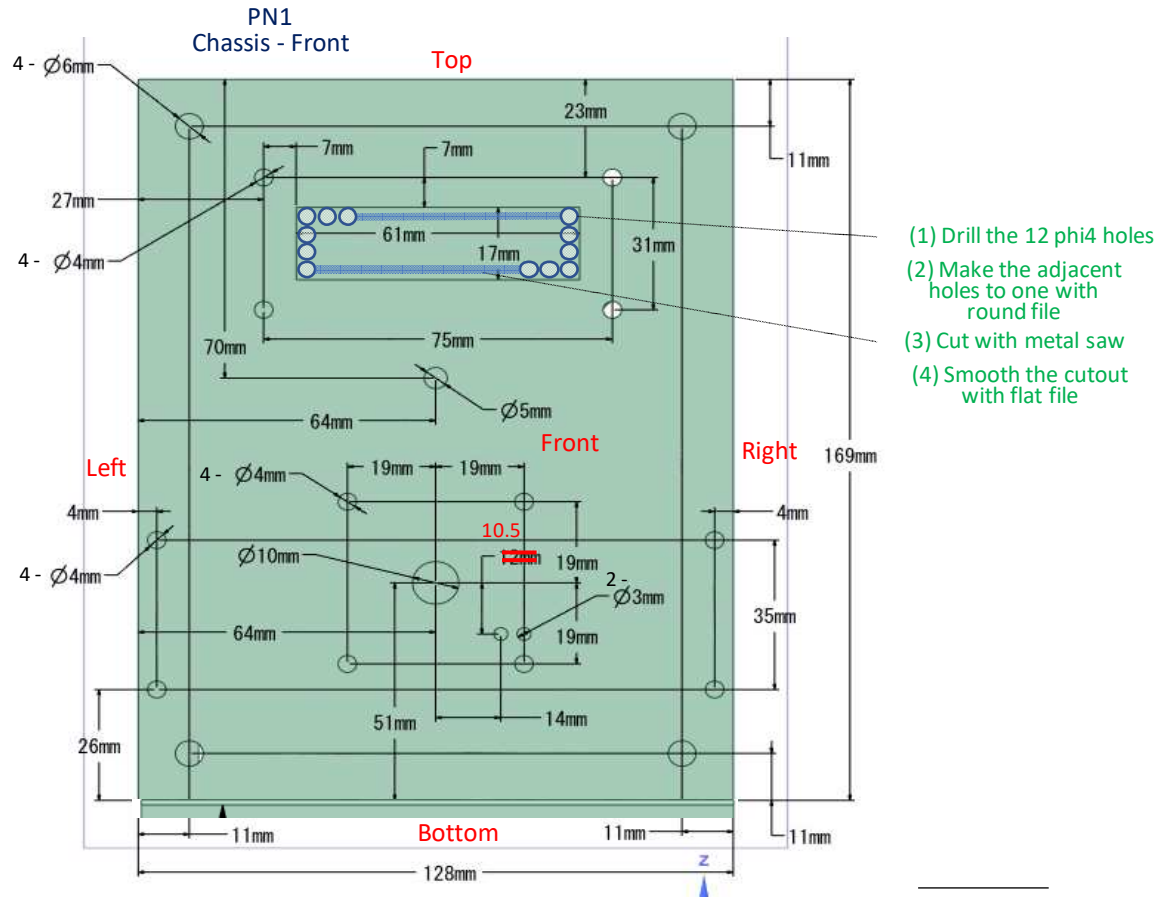


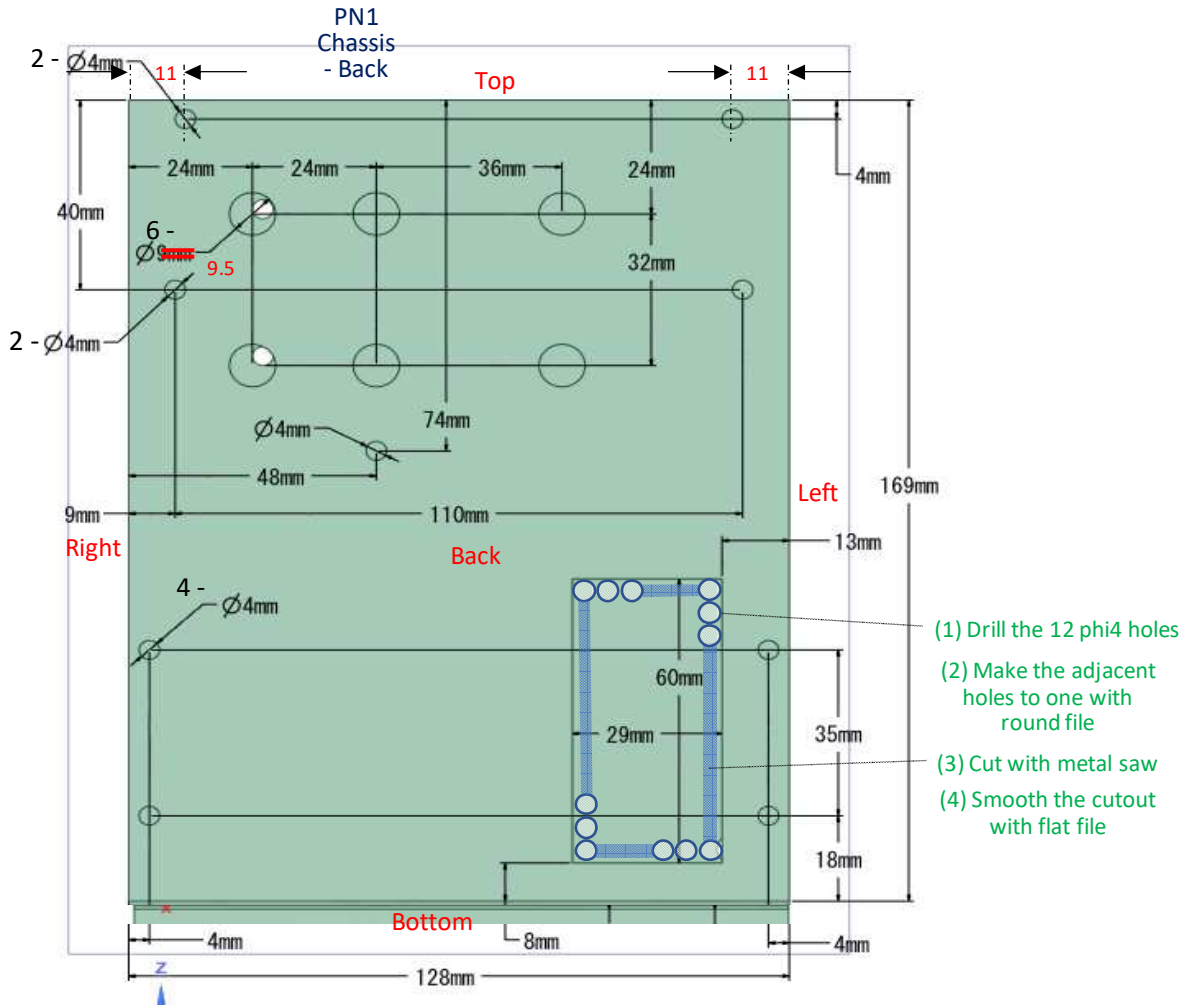
- (1) Drill the 12 phi4 holes
- (2) Make the 3 adjacent holes to one with round file
- (3) Cut with metal saw
- (4) Smooth the cutout with flat file



- (1) Drill the 12 phi4 holes
- (2) Make the adjacent holes to one with round file
- (3) Cut with metal saw
- (4) Smooth the cutout with flat file



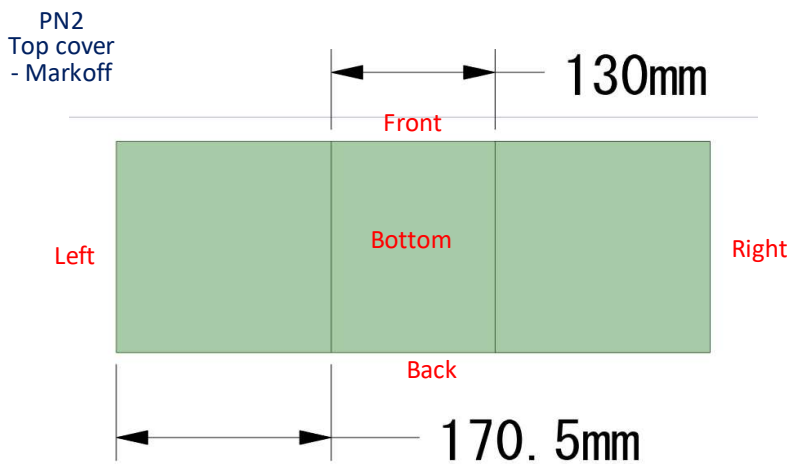




**\* Bending**

Bend PN1 (Chassis) and PN2 (Top Cover) into horse-shoe shape.

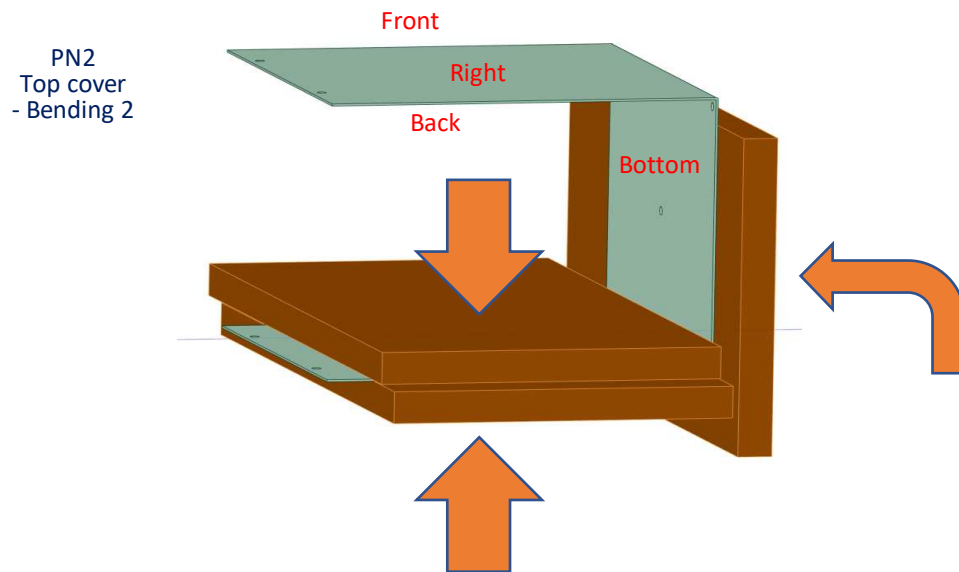
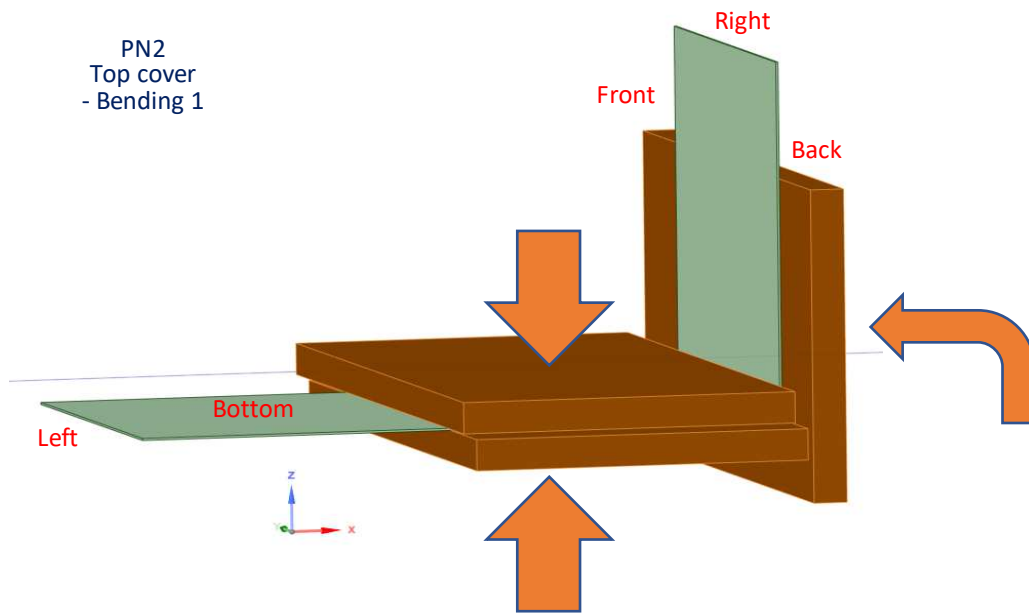
Tools: three (3) wood boards, stabber, acrylic cutter

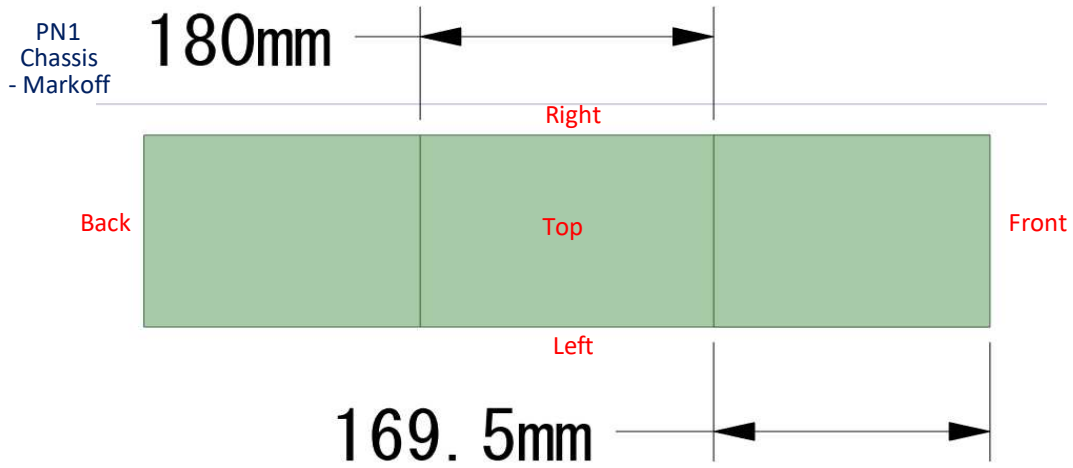


Deepen the mark-off lines by 0.3mm with the acrylic cutter.

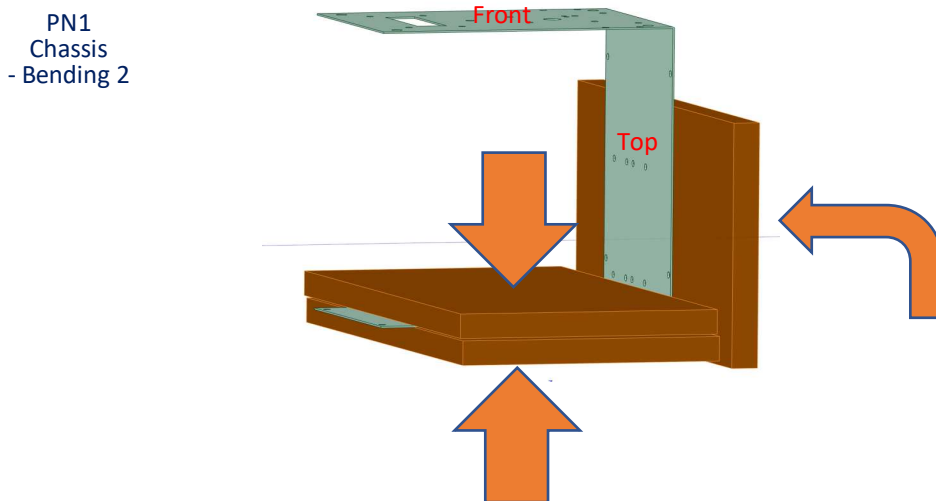
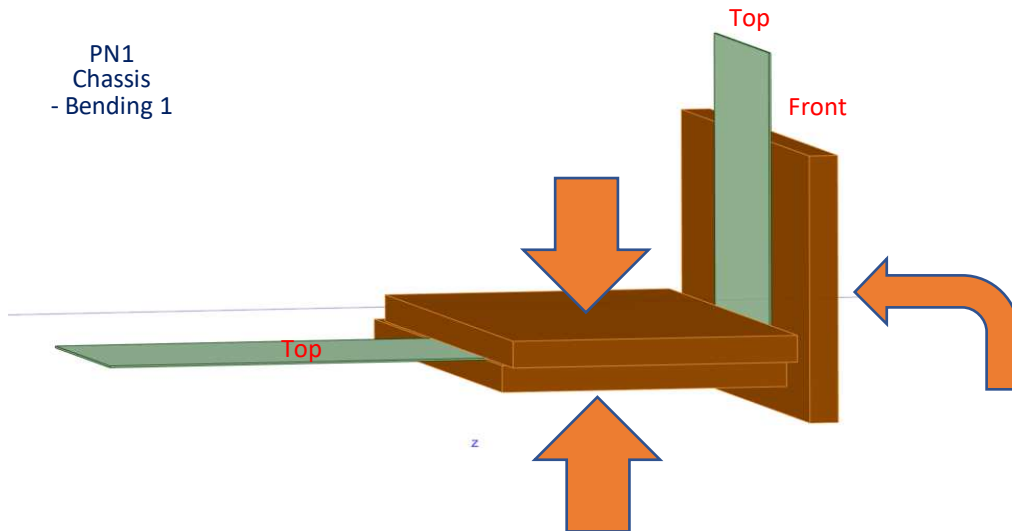


Bend PN2 by using three (3) wood boards.

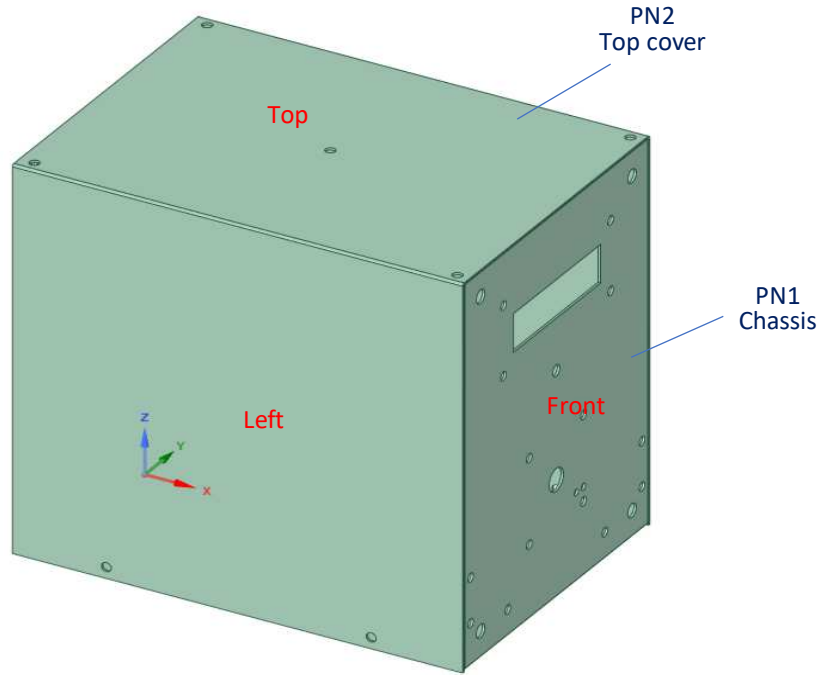




Deepen the mark-off lines by 0.3mm with the acrylic cutter.



Confirm the result.



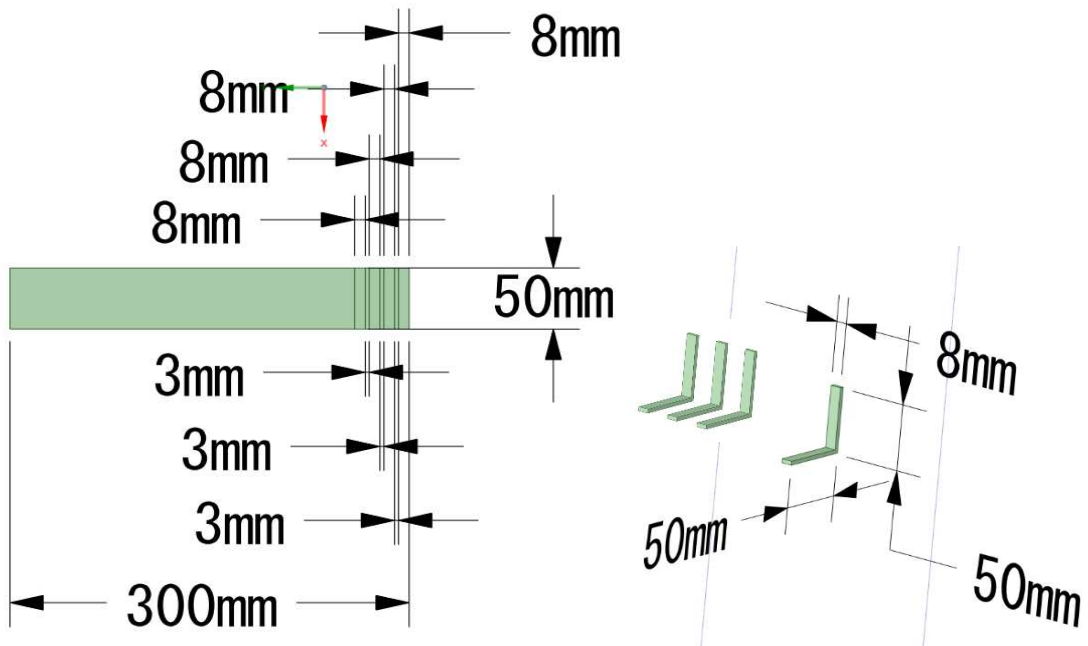
### Aluminum L-shape Angles

#### \* Cutout

Cut four (4) 8mm-wide L-shape angles out of the aluminum L-shape angle of 3 x 50 x 50 x 300mm.

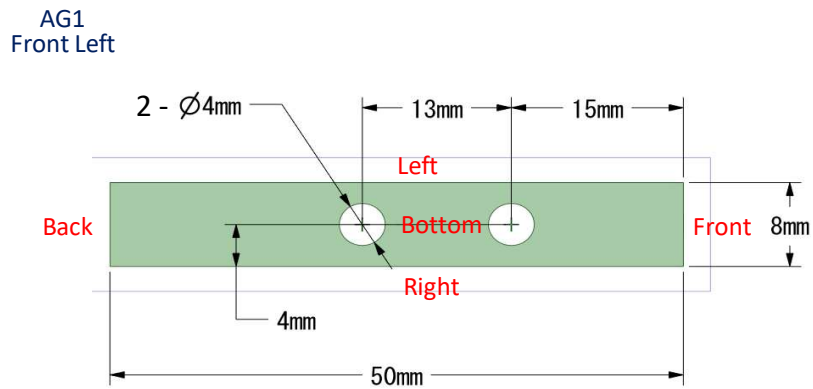
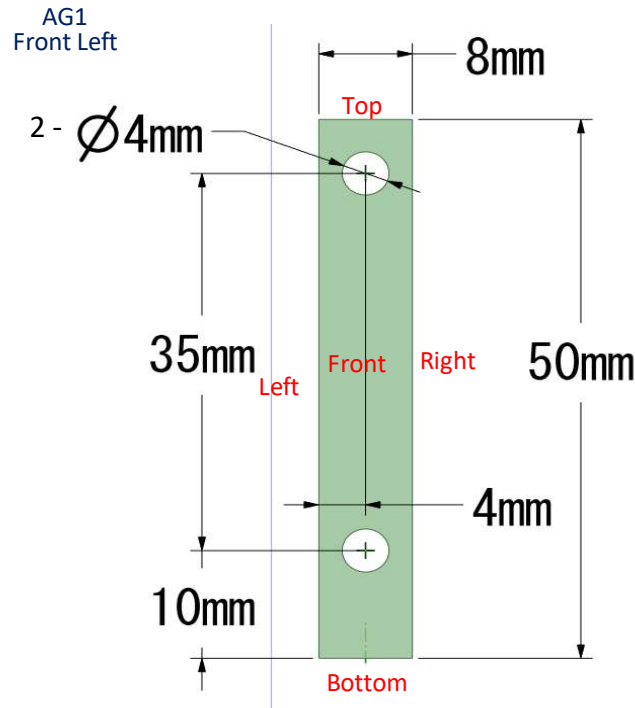
Tools: power jigsaw, linear guide, flat file

Margin: 3mm



**\* Drilling**

Tools: centerpunch, drilling press



AG2, AG3, AG4 are the same in dimension.

**\* Tapping**

The  $\varnothing 2.4$  holes of AG1, AG2, AG3, AG4 are to be tapped with M3 tap.

Tools: M3 tap, tapping handle

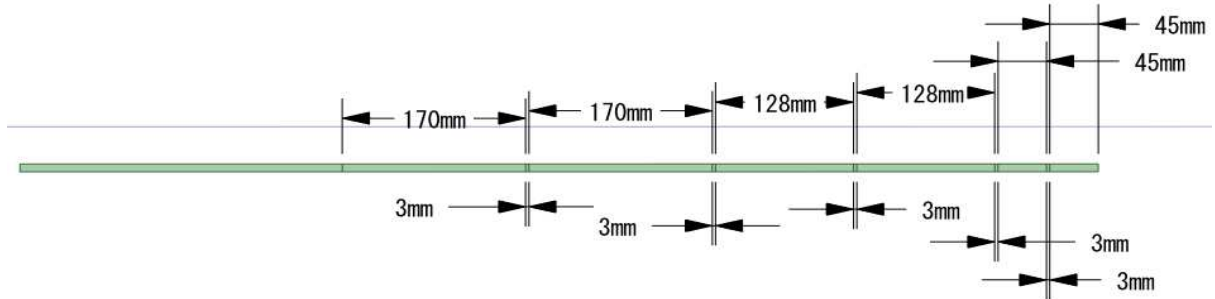
### Aluminum Square Bars

#### \* Cutout

Cut out SB1-SB6 from the aluminum square bar of 8 x 8 x 1000mm.

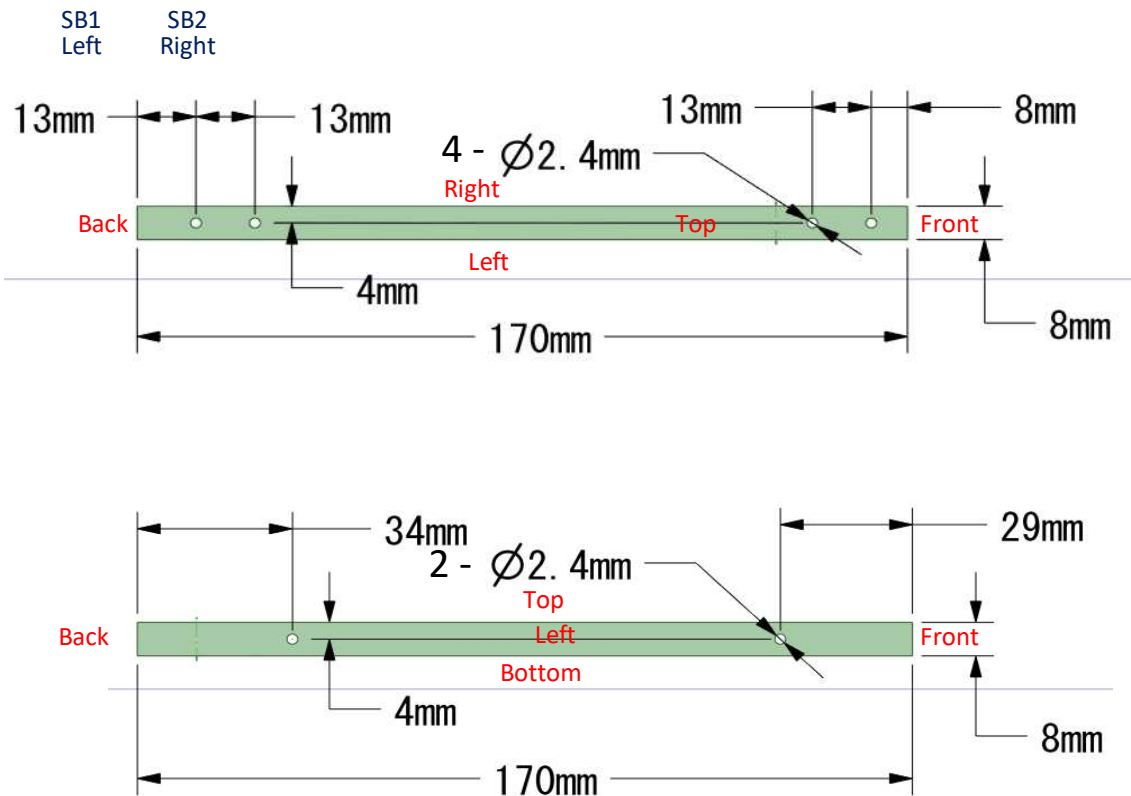
Tools: power jigsaw, linear guide, flat file

Margin: 3mm

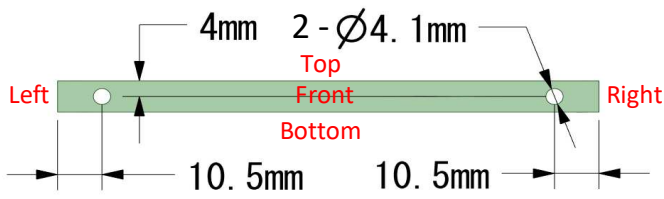
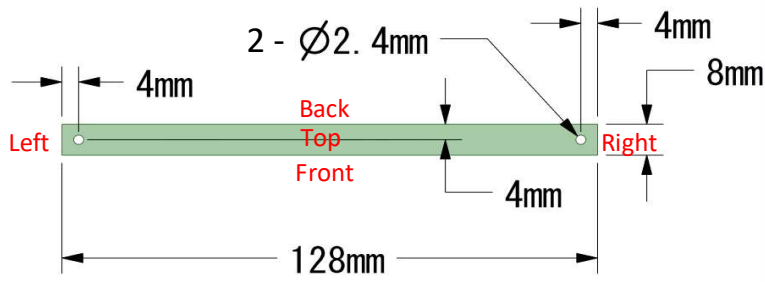


#### \* Drilling

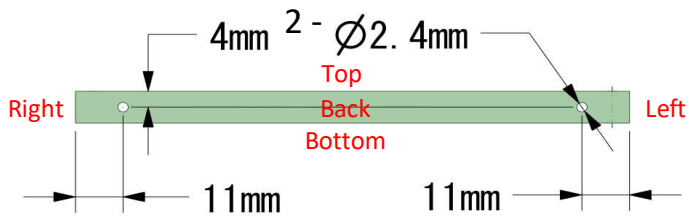
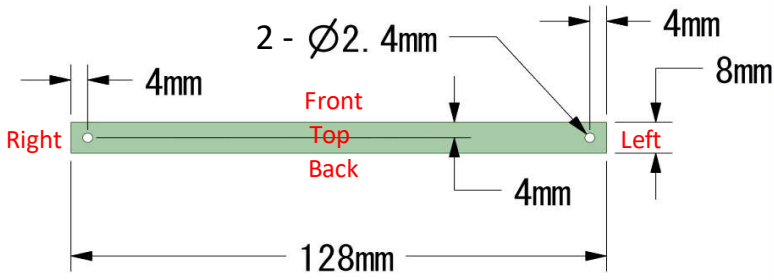
Tools: centerpunch, drilling press



SB3  
Front

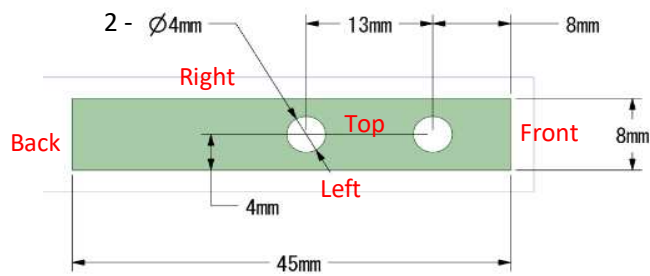


SB4  
Back



SB5  
Left upper

SB6  
Right upper



**\* Tapping**

The phi2.4 holes of SB1, SB2, SB3, SB4 are to tapped with M3 tap.

The phi4.1 holes of SB3 are to tapped with M5 tap.

Tools: M3 tap, M5 tap, tapping handle

[END OF DOCUMENT]