CC-218 DIVERSITY Design

2023/12/27

2024/03/26 Revised

Metalwork

Contents

Preparation

Remove protect film off the chassis and panles before making mark-offs!

Make mark-off directly on materials w/ compasses.

*** Tools**

Mark-off

Boring

Power drill
for chassis
(DOIT DD-2000)

Drilling machine
for panels,
square bars
(GreatTool GTB-13G)

Cutout

Chassis punch set
for round cutouts
(Engineer TR-05)

Hacksaw blade
w/ vinyl tape wrapping
one end

Hand nibbler
(HOZAN K-88)

Smoothing

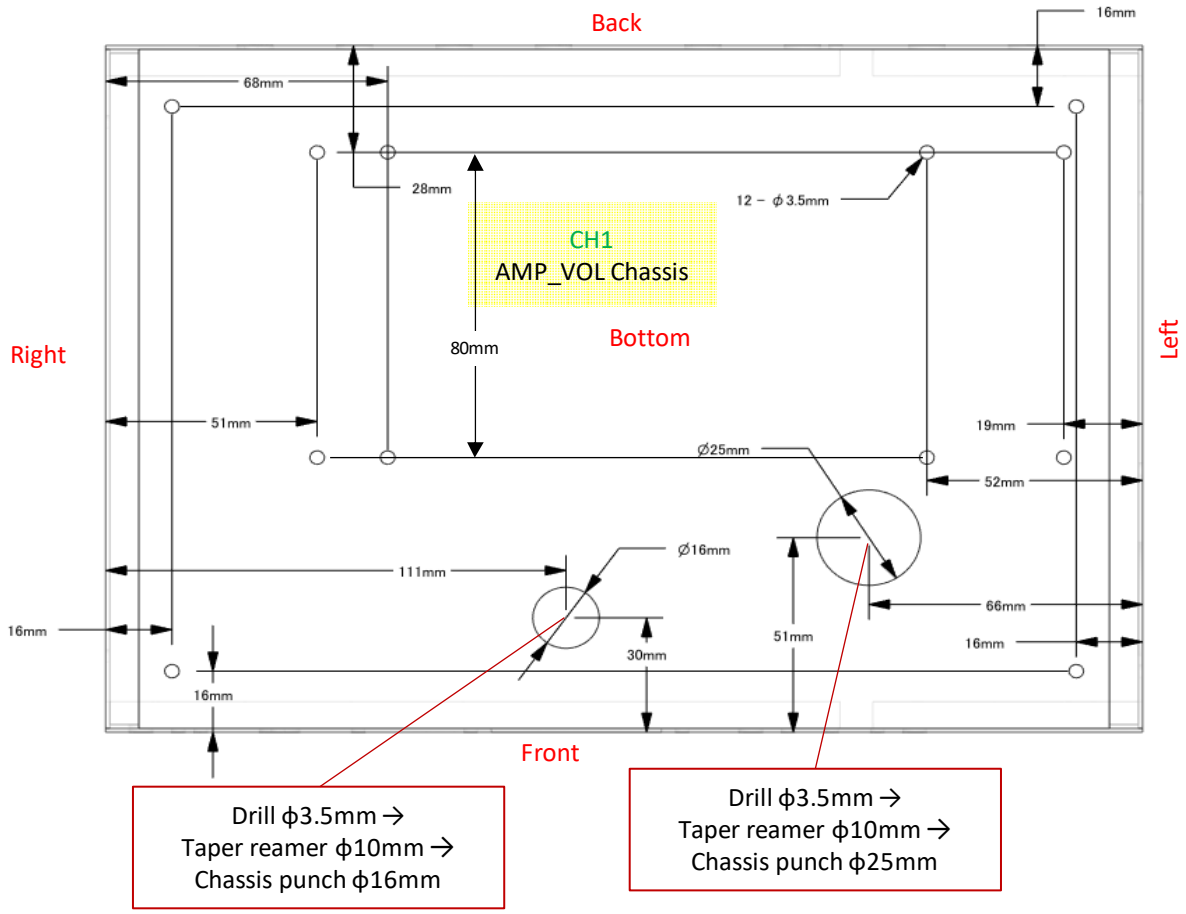
Half round file

Small round file

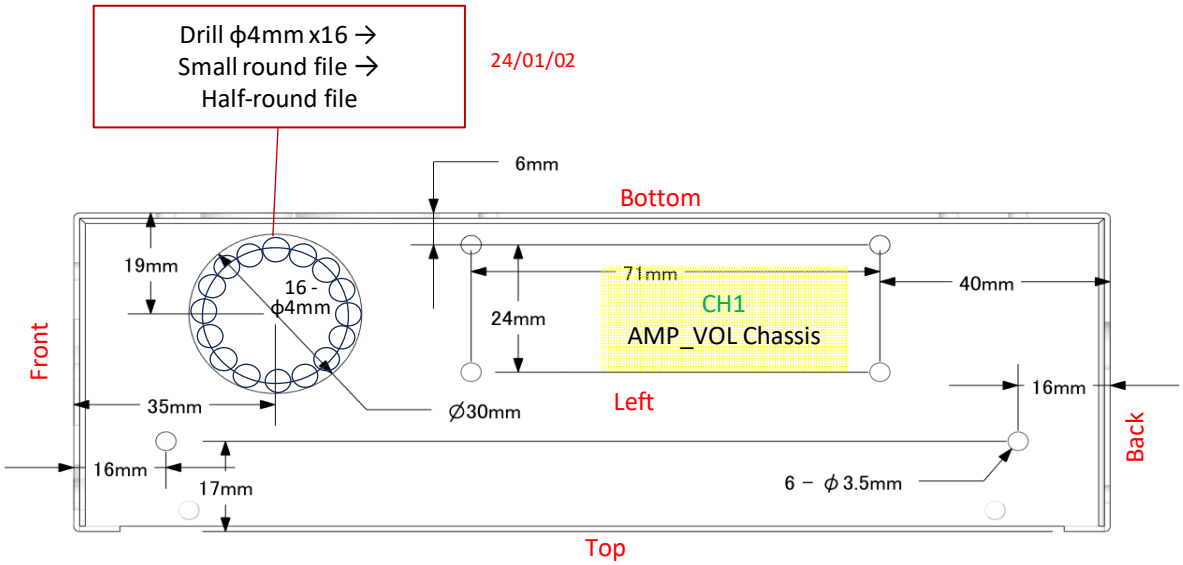
Tapping

Chassis - CH1 AMP_VOL

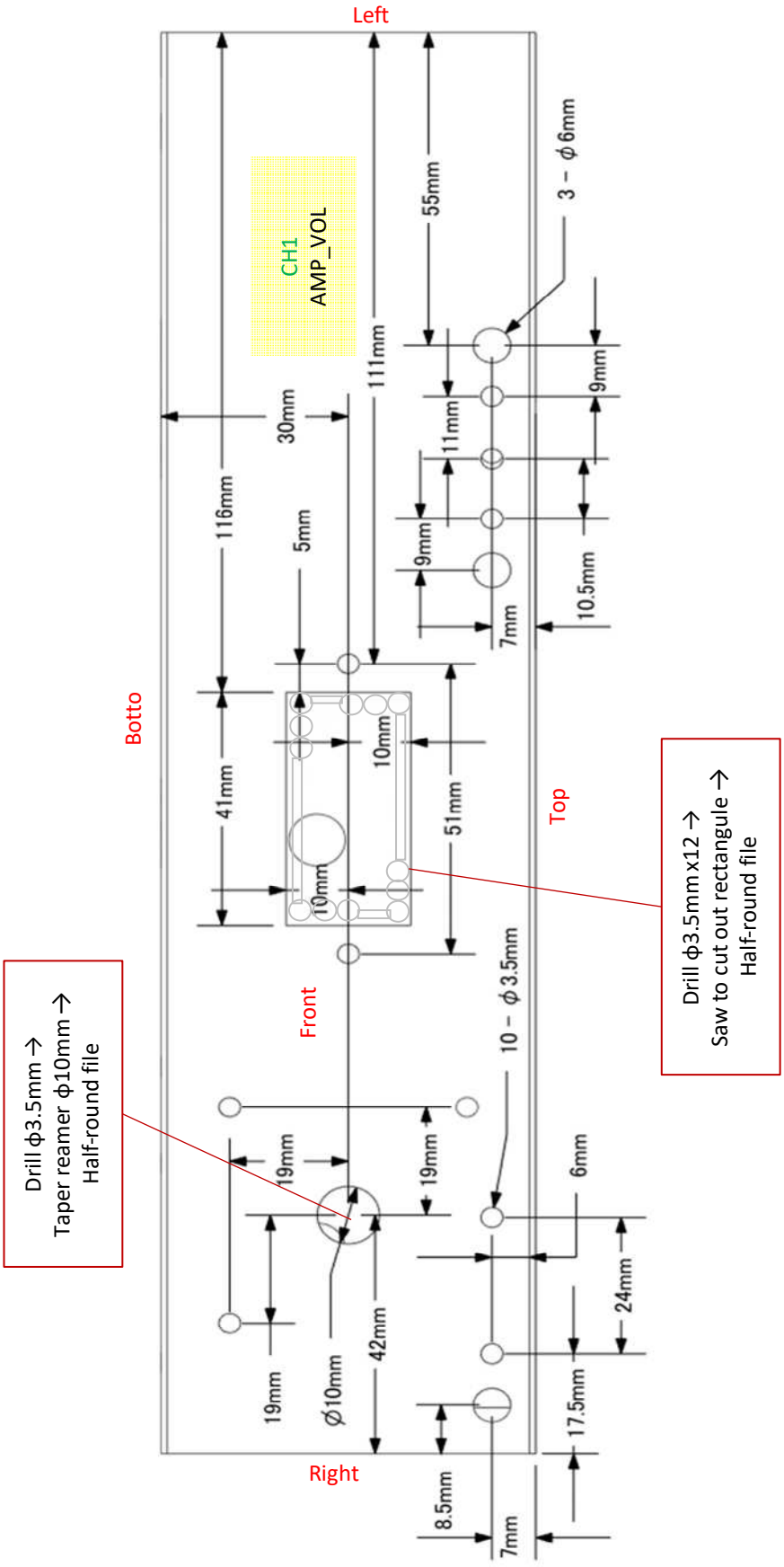
*** Bottom**



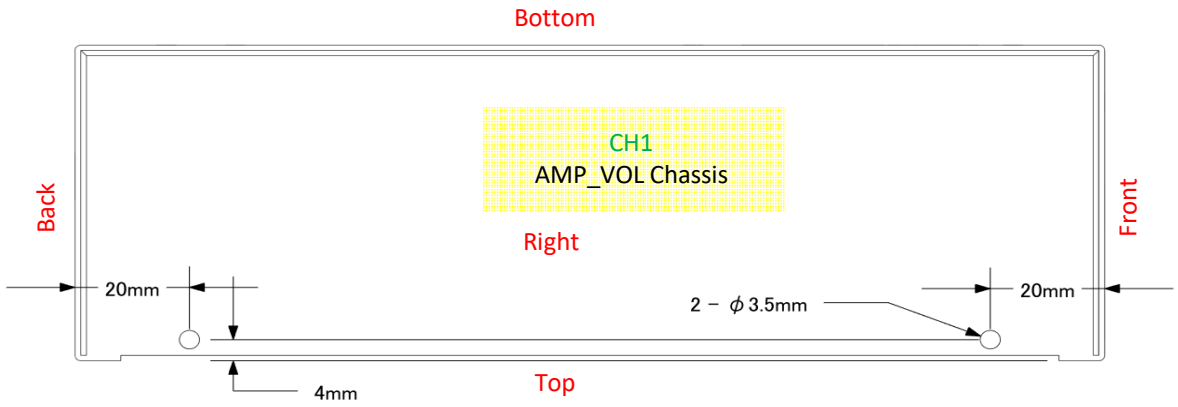
*** Left**



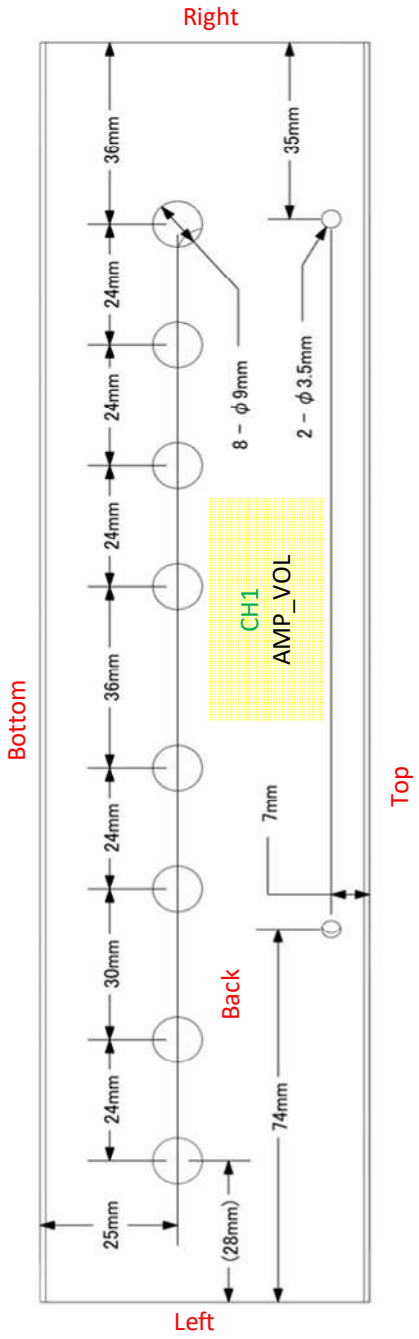
*** Front**


Left
CH1
AMP_VOL
55mm
3 – ϕ6mm
111mm
30mm
116mm
5mm
9mm
11mm
9mm
10.5mm
7mm
Botto
10mm
41mm
51mm
10mm
Top
Front
10 – ϕ3.5mm
Drill ϕ3.5mm →
Taper reamer ϕ10mm →
Half-round file
Drill ϕ3.5mm x12 →
Saw to cut out rectangule →
Half-round file
19mm
19mm
6mm
24mm
19mm
ϕ10mm
42mm
17.5mm
Right
8.5mm
7mm

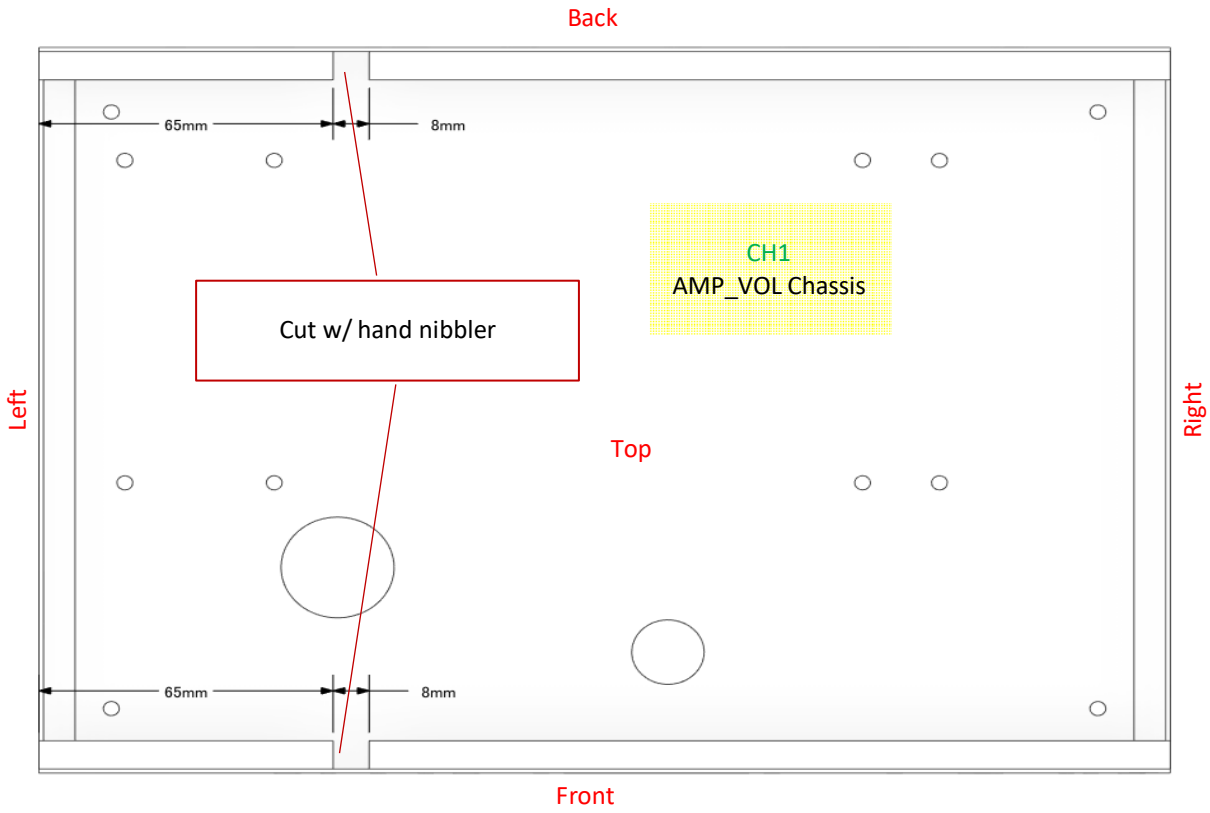
*** Right**


Bottom
CH1
AMP_VOL Chassis
Back
Front
Right
20mm
2 – ϕ3.5mm
20mm
4mm
Top

*** Back**

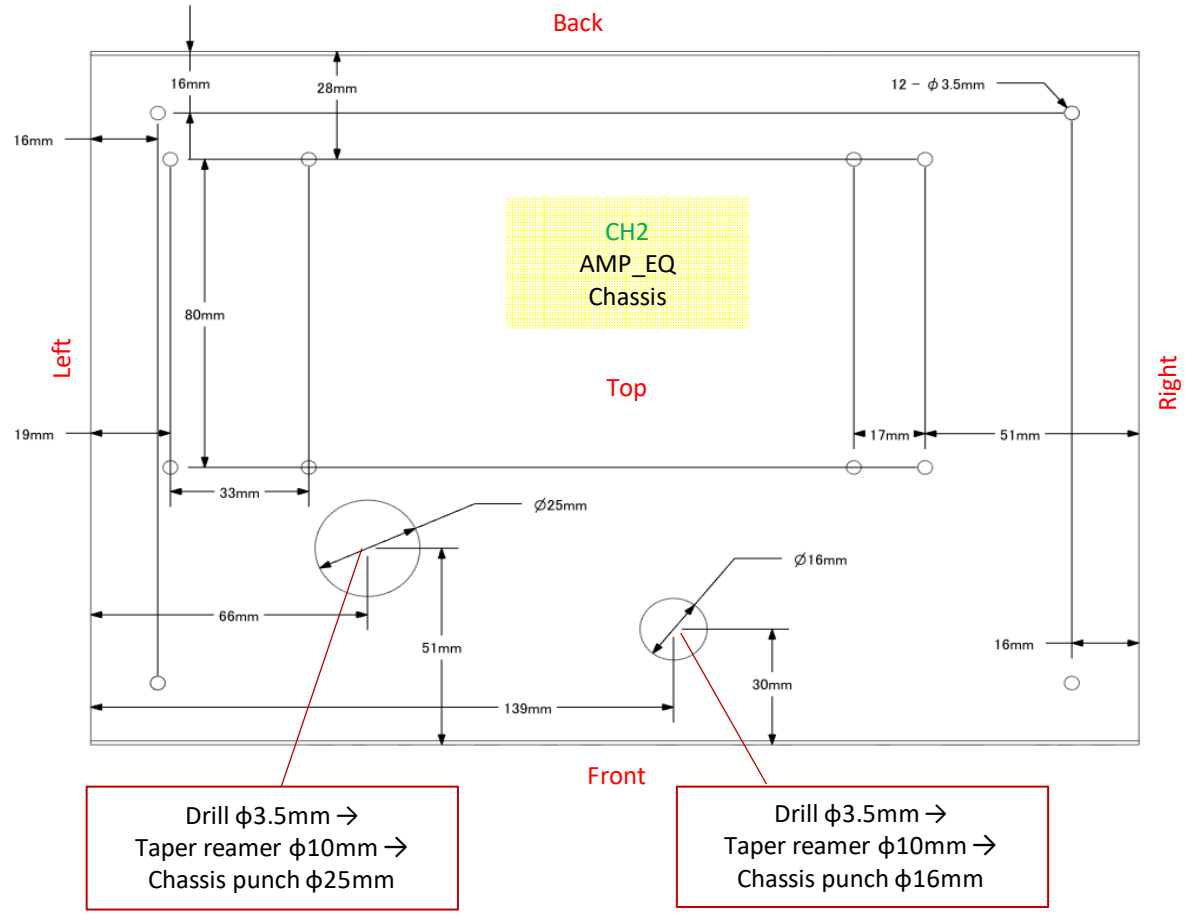

Right
36mm
35mm
24mm
24mm
24mm
8 – ϕ9mm
2 – ϕ3.5mm
CH1
AMP_VOL
Bottom
Top
36mm
24mm
7mm
30mm
Back
24mm
74mm
25mm
(28mm)
Left

*** Top**

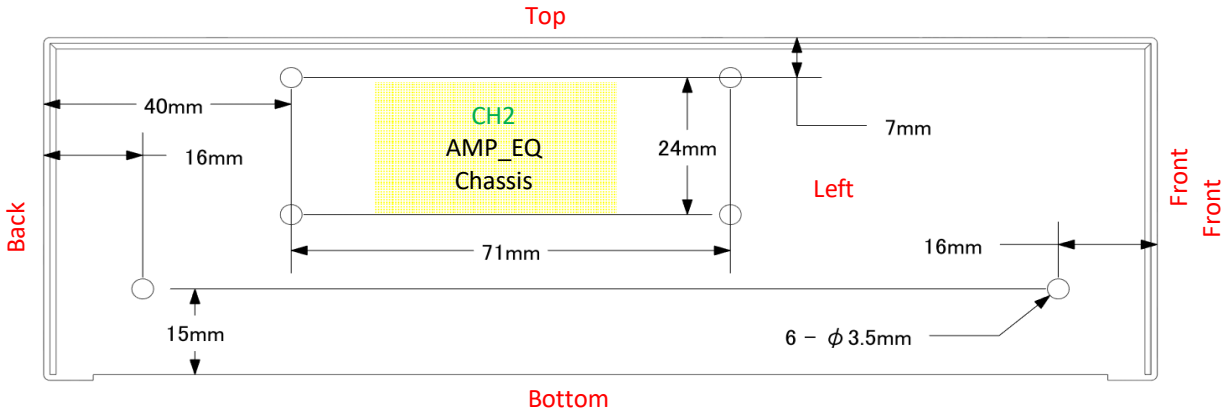

Back
65mm
8mm
CH1
AMP_VOL Chassis
Cut w/ hand nibbler
Left
Top
Right
65mm
8mm
Front

Chassis - CH2 AMP_EQ

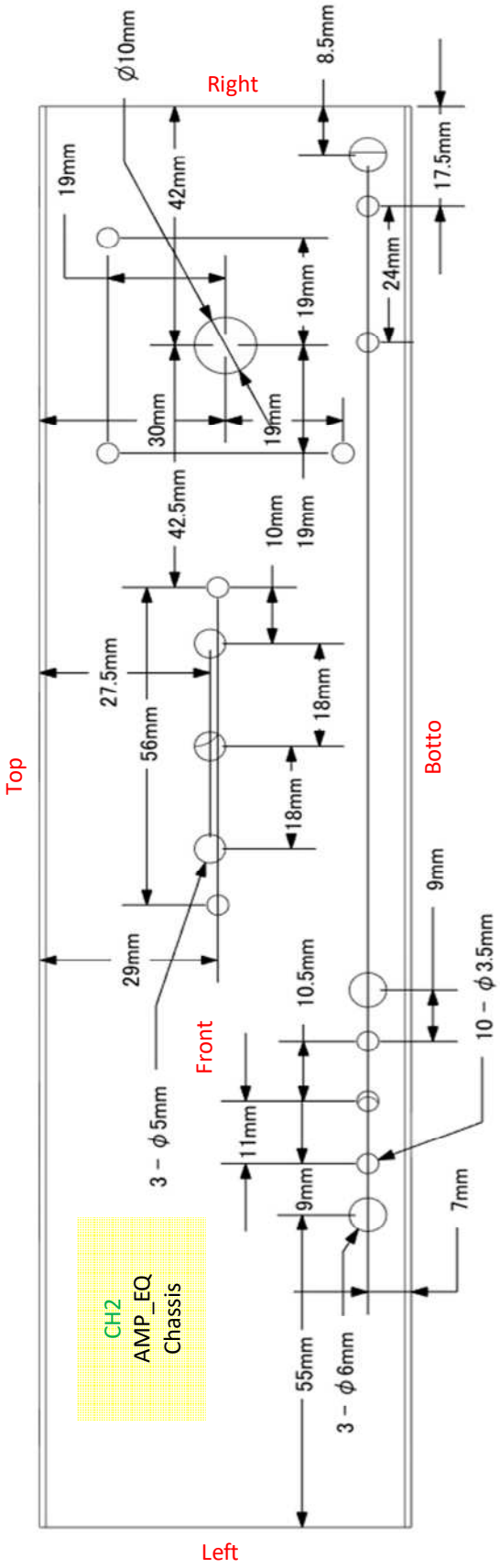
*** Top**



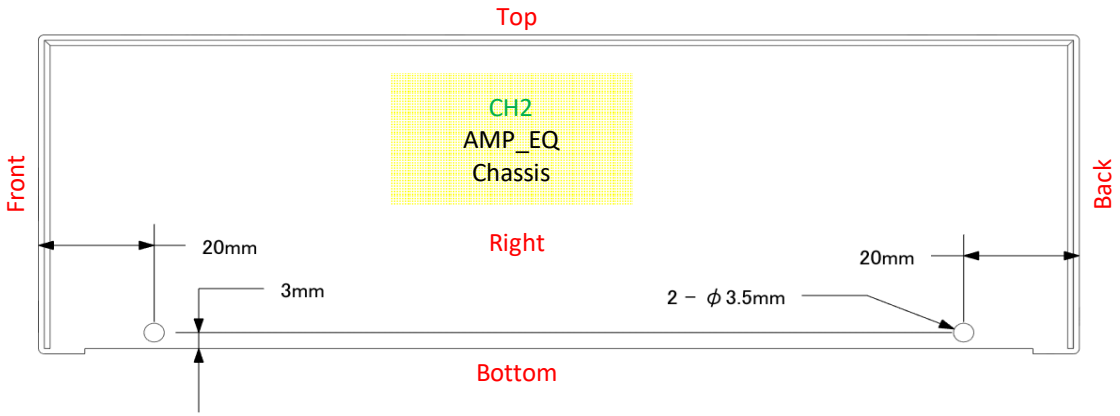
*** Left**



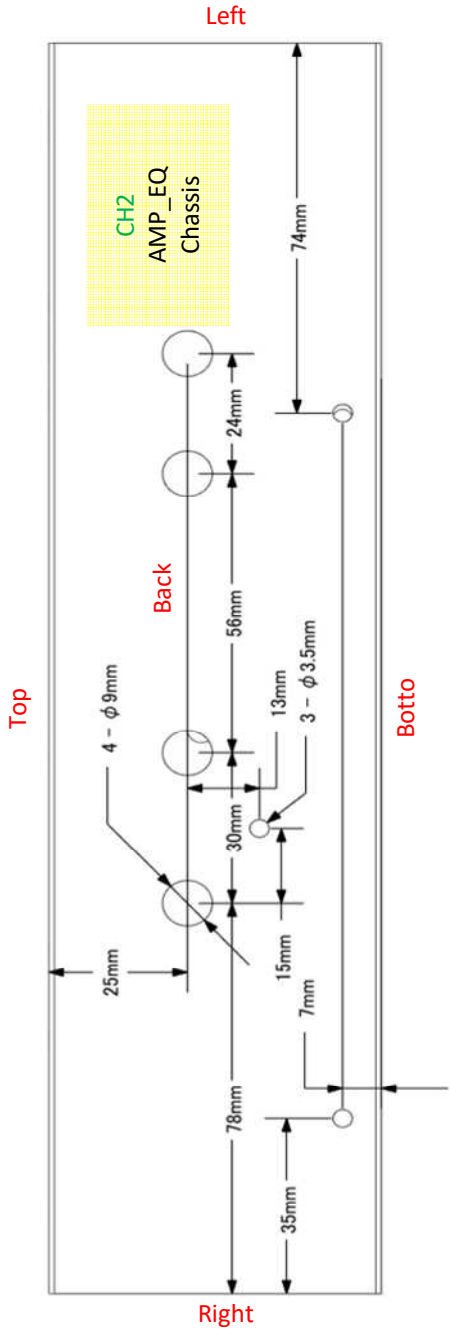
*** Front**


Right
Top
Botto
Front
Left
CH2
AMP_EQ
Chassis
ϕ10mm
8.5mm
17.5mm
19mm
42mm
24mm
19mm
30mm
19mm
42.5mm
10mm
19mm
27.5mm
56mm
18mm
18mm
9mm
29mm
10.5mm
10 – ϕ3.5mm
3 – ϕ5mm
11mm
9mm
7mm
55mm
3 – ϕ6mm

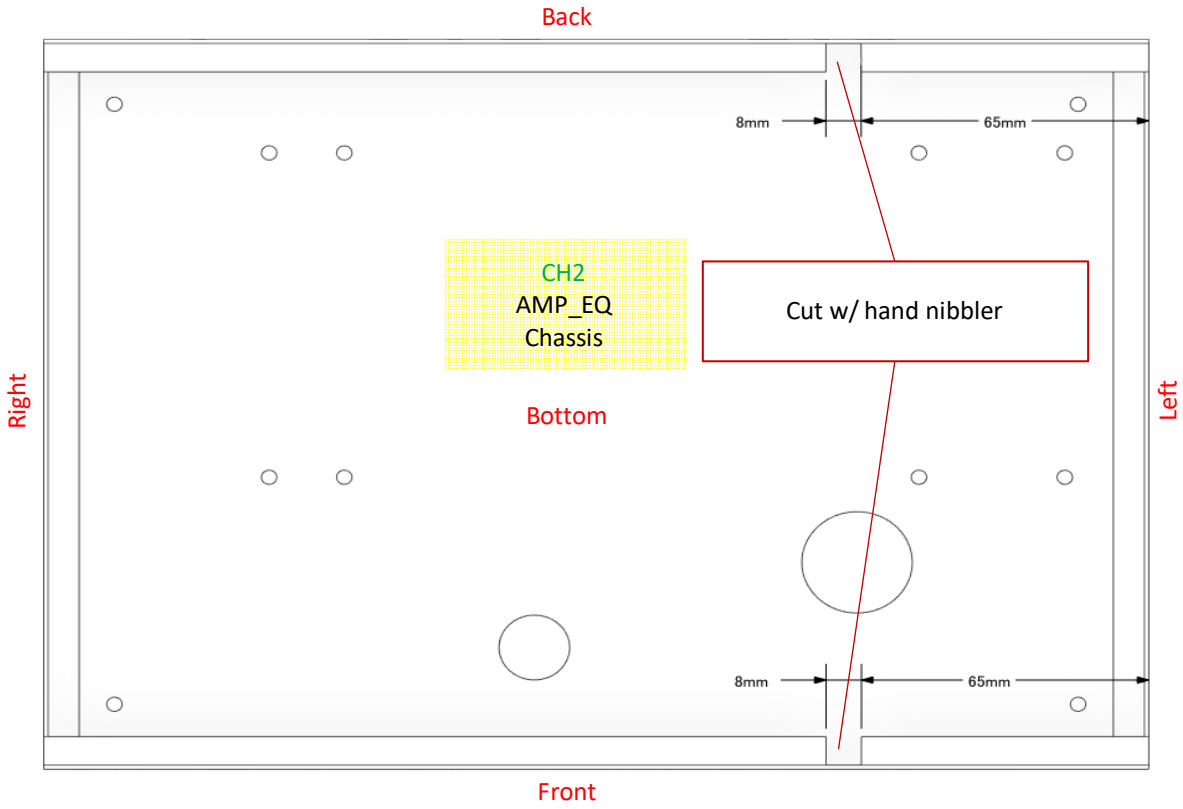
*** Right**


Top
CH2
AMP_EQ
Chassis
Front
Back
Right
20mm
3mm
2 – ϕ3.5mm
20mm
Bottom

*** Back**

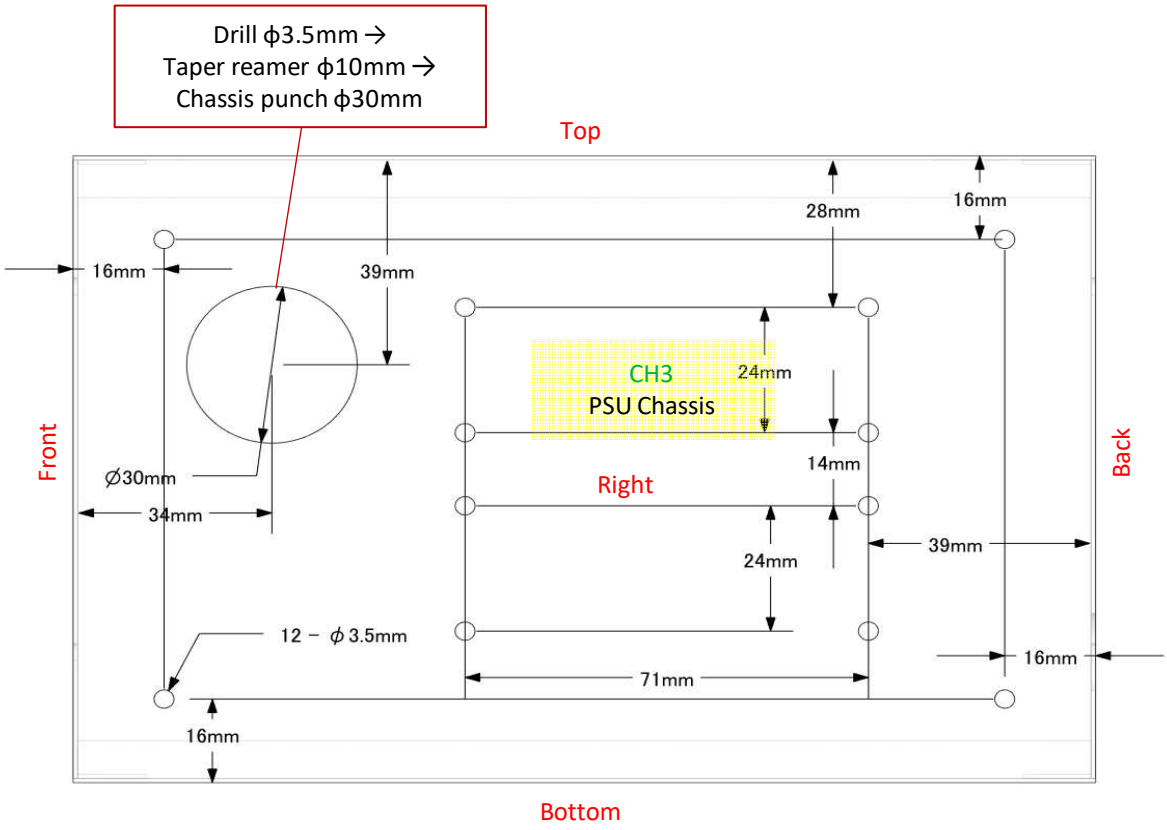

Left
CH2
AMP_EQ
Chassis
74mm
24mm
Back
56mm
13mm
3 – ϕ3.5mm
Top
4 – ϕ9mm
Botto
30mm
25mm
15mm
7mm
78mm
35mm
Right

*** Bottom**

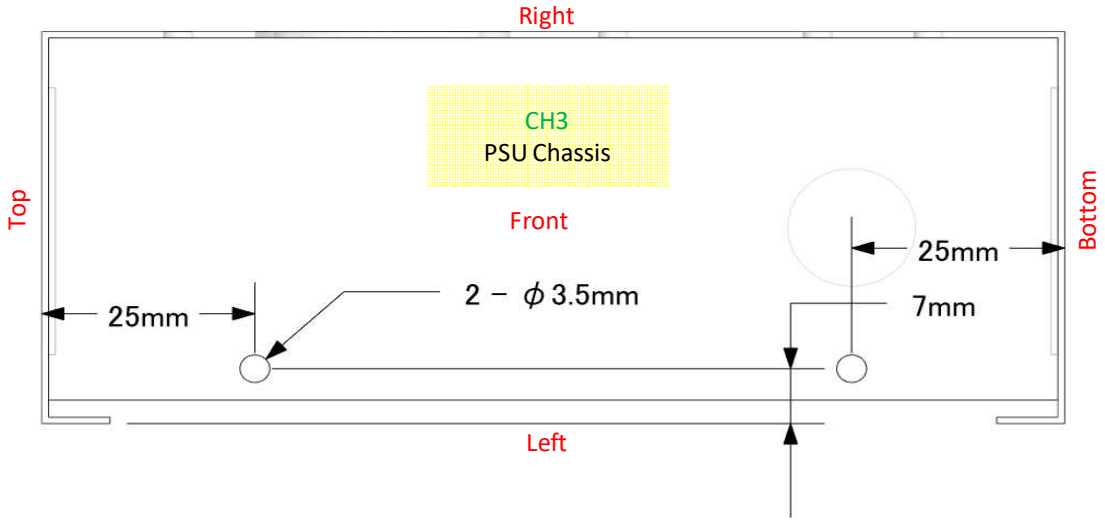

Back
8mm
65mm
CH2
AMP_EQ
Chassis
Cut w/ hand nibbler
Right
Bottom
Left
8mm
65mm
Front

Chassis - CH3 PSU

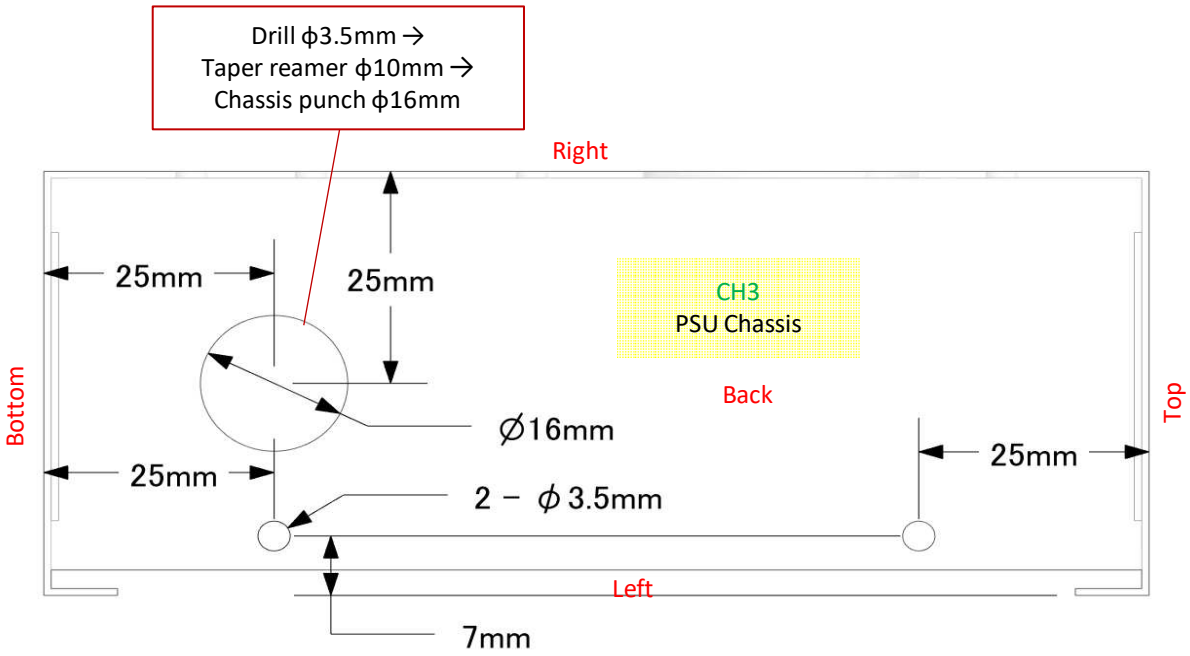
*** Right**



*** Front**

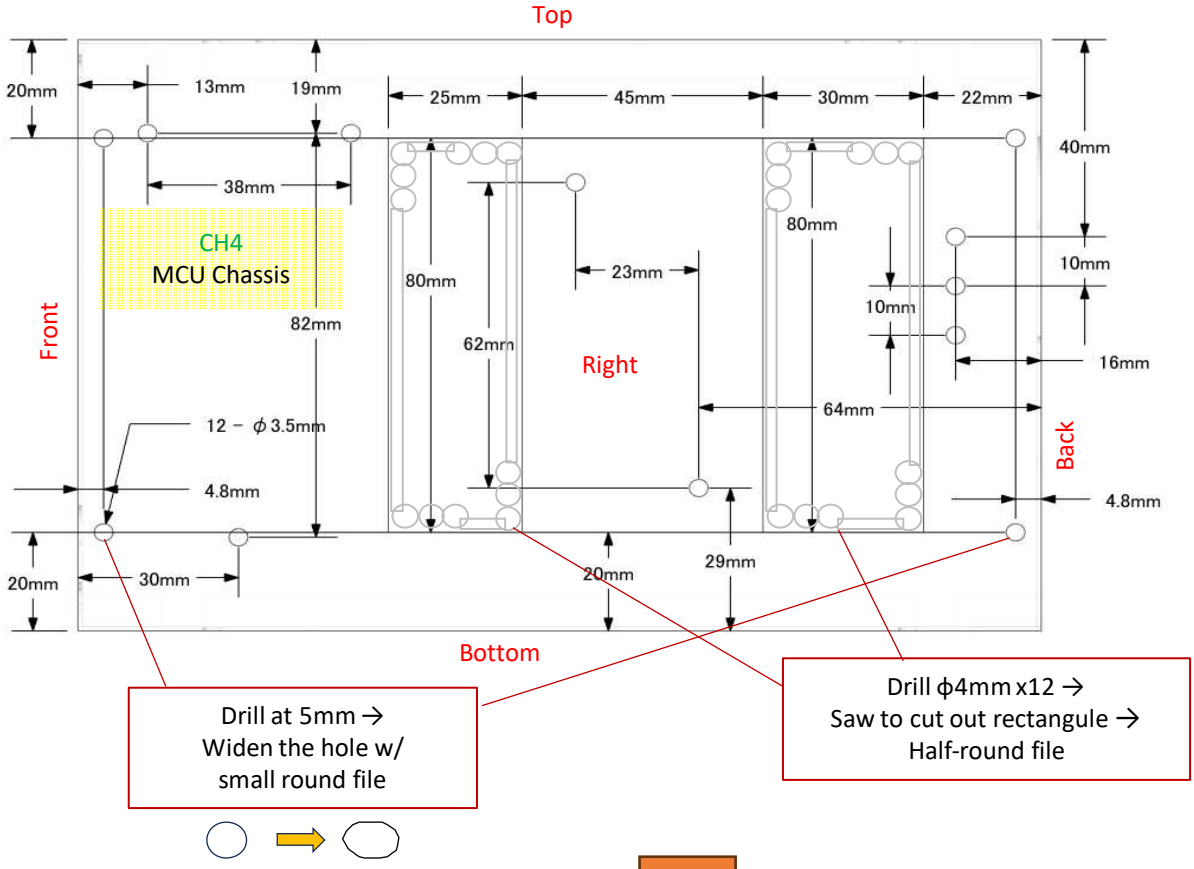


*** Back**


Drill ϕ3.5mm →
Taper reamer ϕ10mm →
Chassis punch ϕ16mm
Right
25mm
25mm
CH3
PSU Chassis
Back
Bottom
Top
∅16mm
25mm
25mm
2 − ϕ 3.5mm
Left
7mm

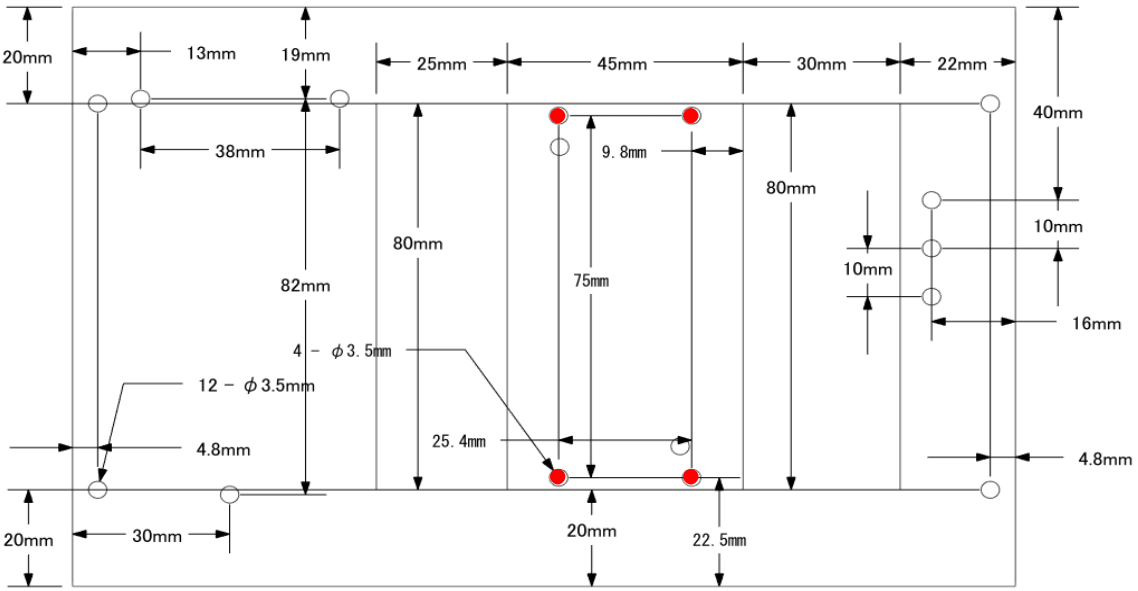
Chassis - CH4 MCU

*** Right**



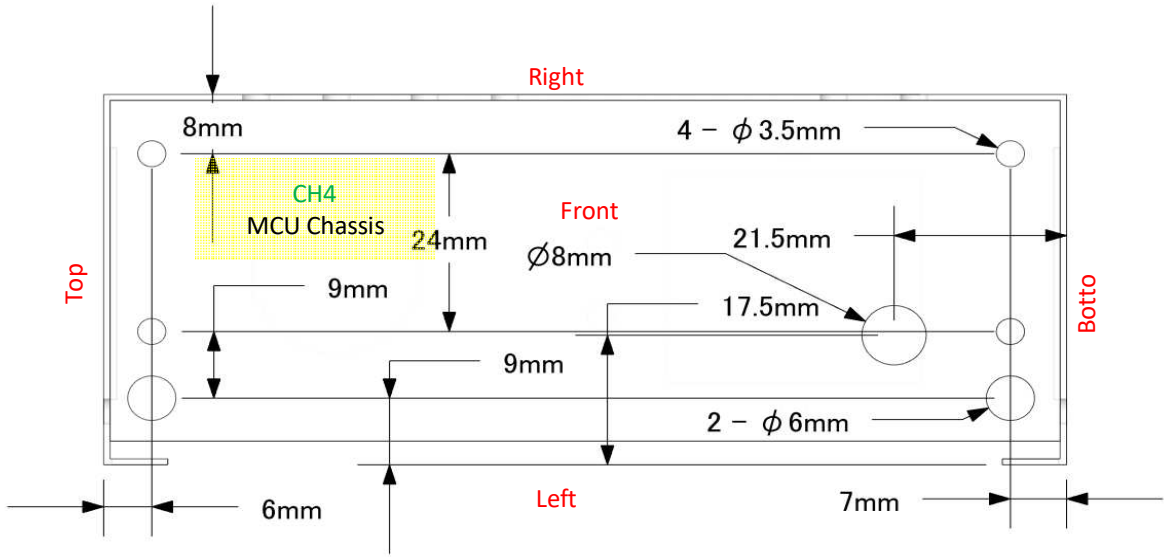
Add 4 mounting holes

[2024/08/26]

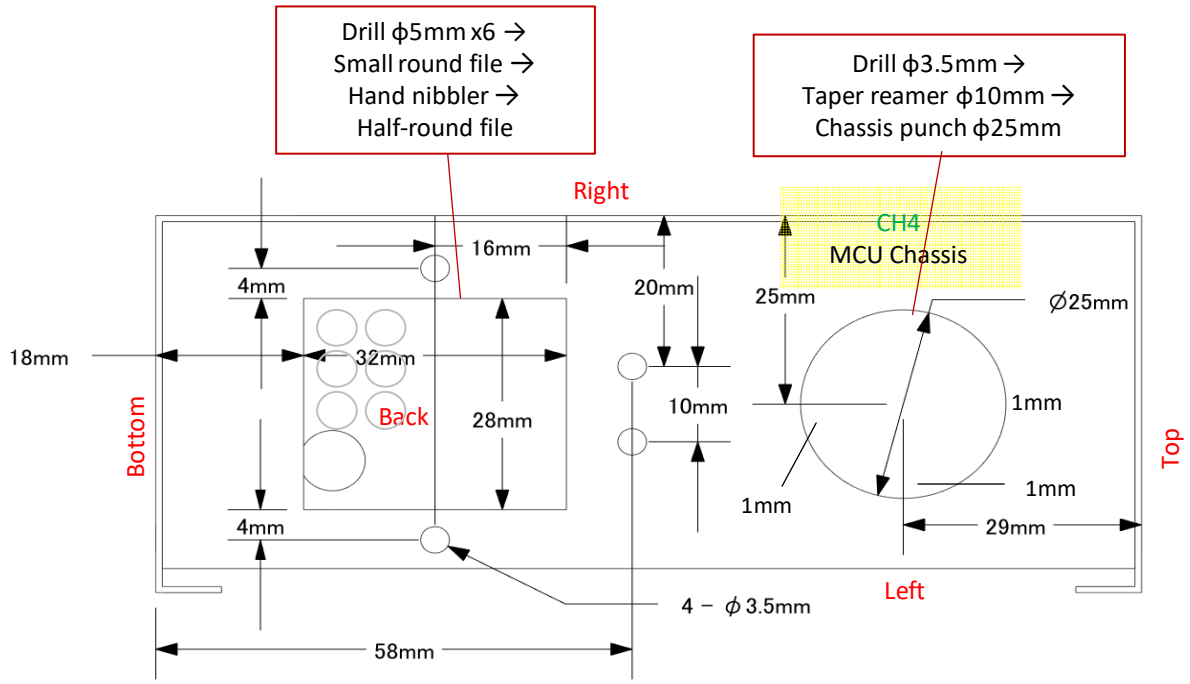


Bore four mounting holes of Phi3.5mm for EML15US05-S.

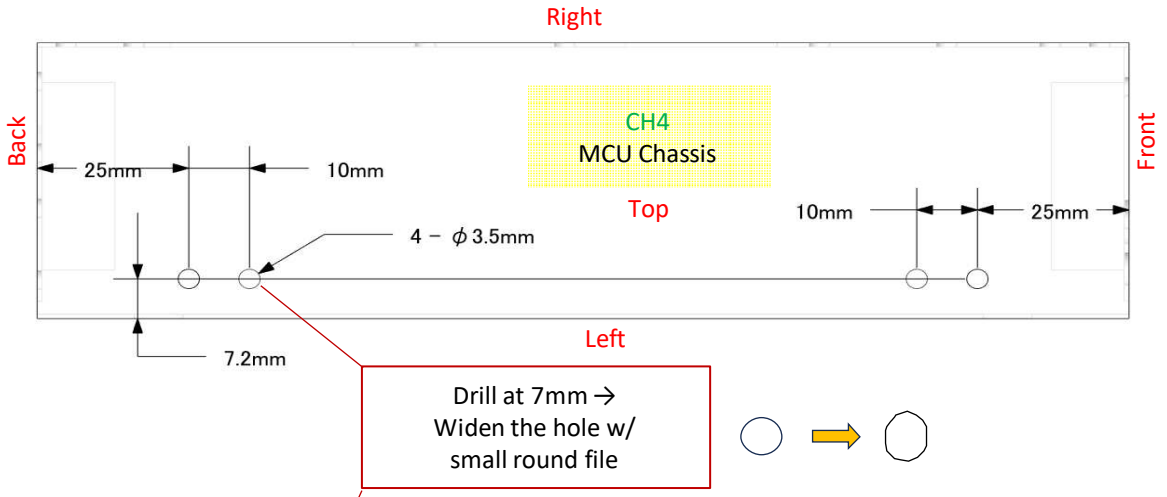
*** Front**


Right
8mm
4 − ϕ3.5mm
CH4
MCU Chassis
24mm
Front
Ø8mm
21.5mm
Top
9mm
17.5mm
Botto
9mm
2 − ϕ6mm
6mm
Left
7mm

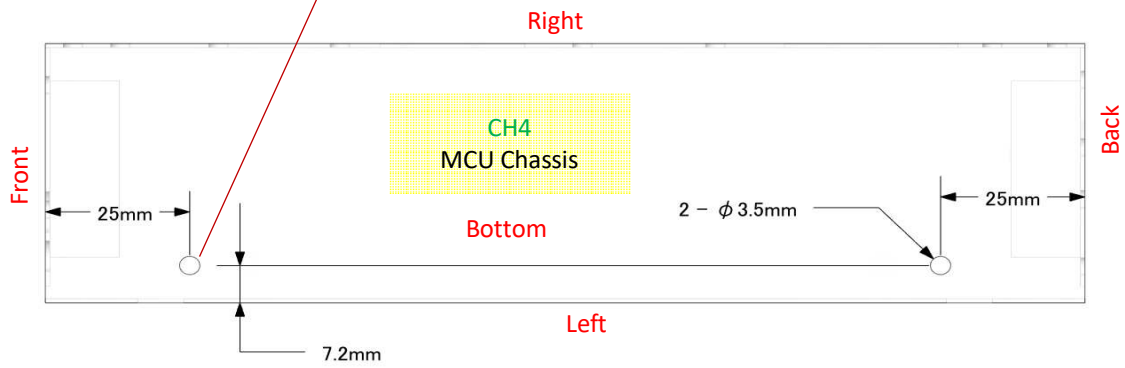
*** Back**


Drill ϕ5mm x6 →
Small round file →
Hand nibbler →
Half-round file
Drill ϕ3.5mm →
Taper reamer ϕ10mm →
Chassis punch ϕ25mm
Right
CH4
MCU Chassis
16mm
4mm
20mm
25mm
Ø25mm
18mm
32mm
Back
28mm
10mm
1mm
Bottom
1mm
1mm
Top
4mm
29mm
4 − ϕ3.5mm
Left
58mm

*** Top**

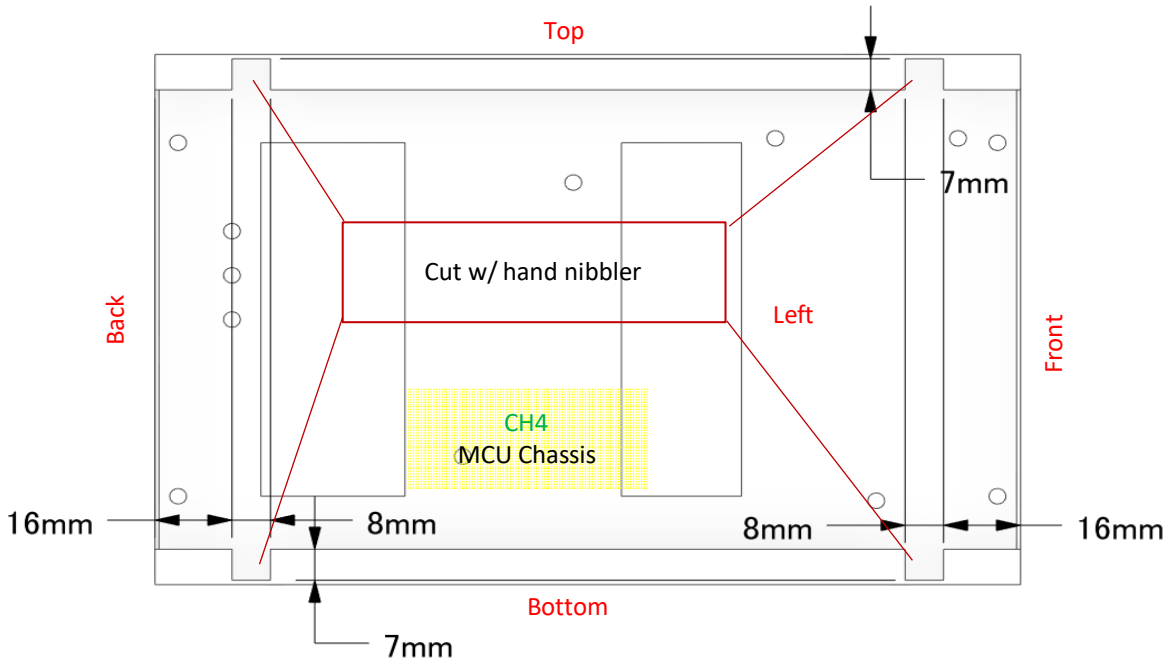


*** Bottom**



*** Left**

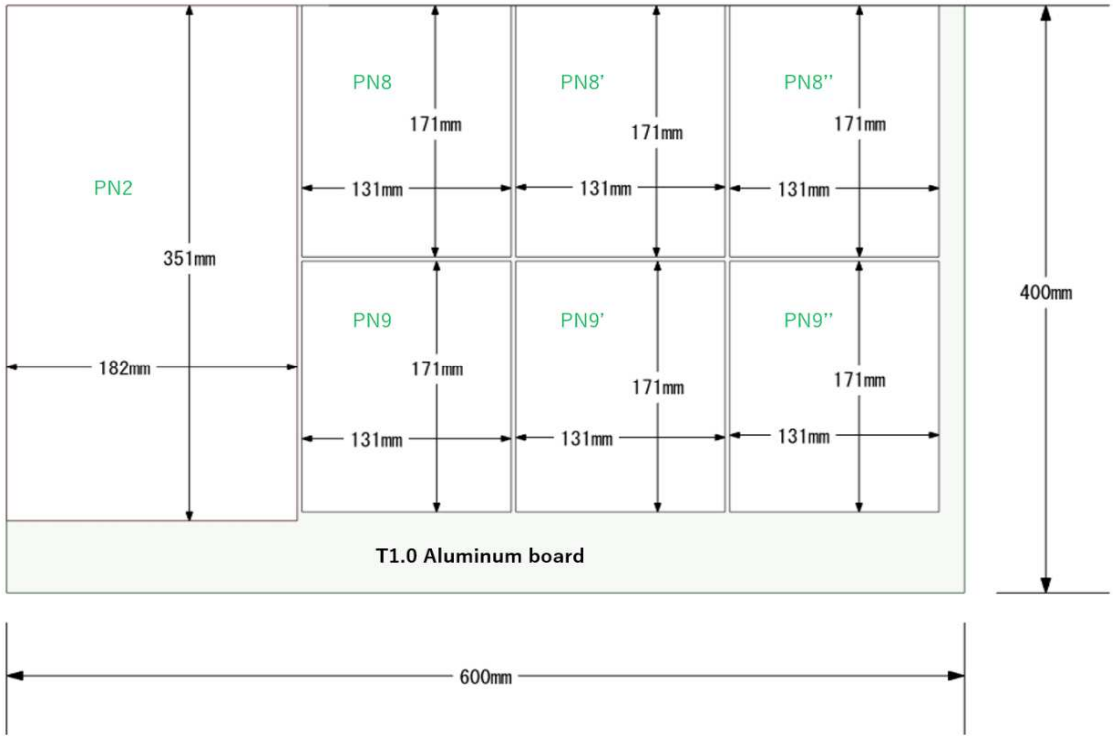
2024/03/26



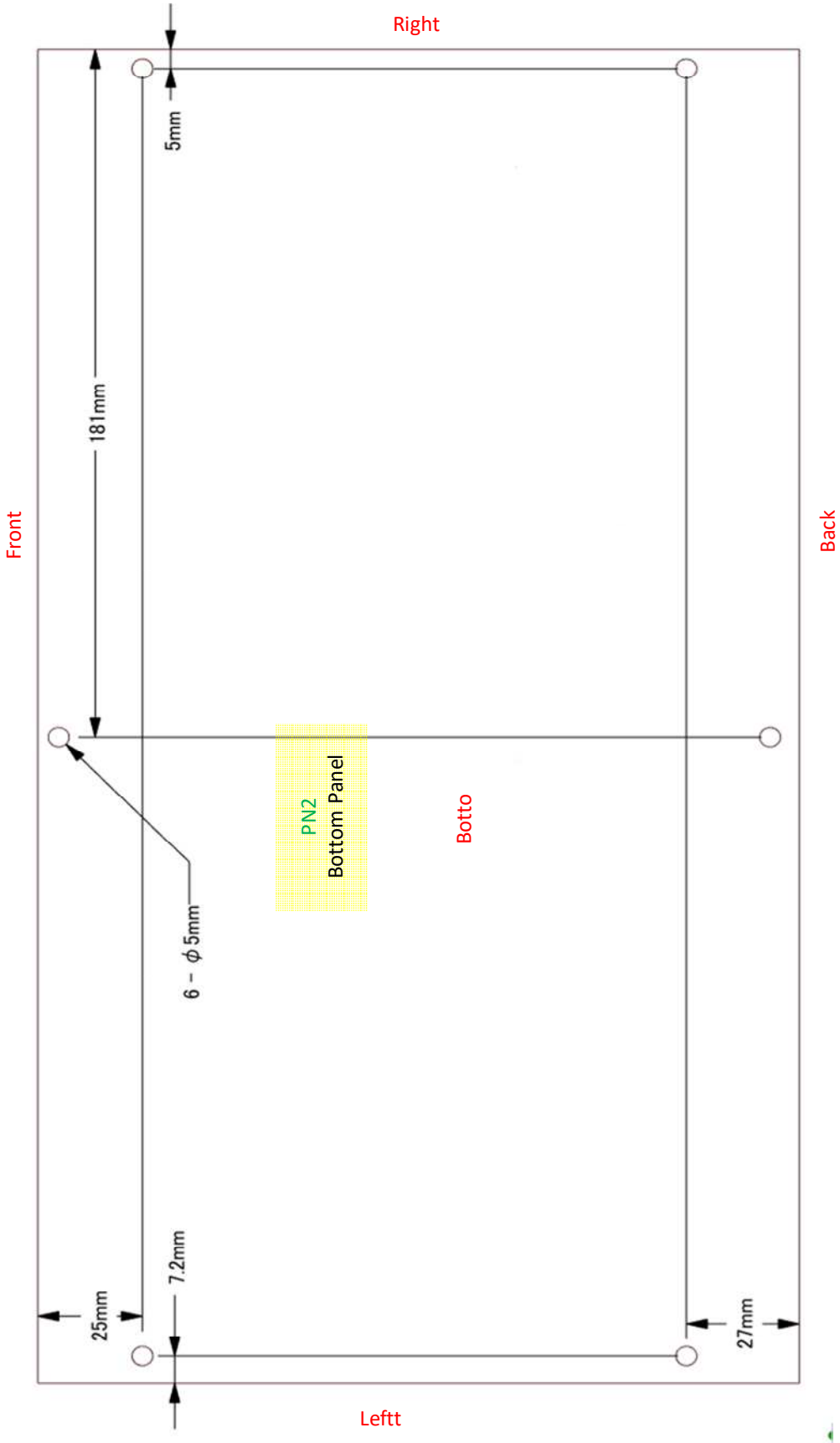
Aluminum Panels - T1mm

*** Cut plan - 1x600x400mm**

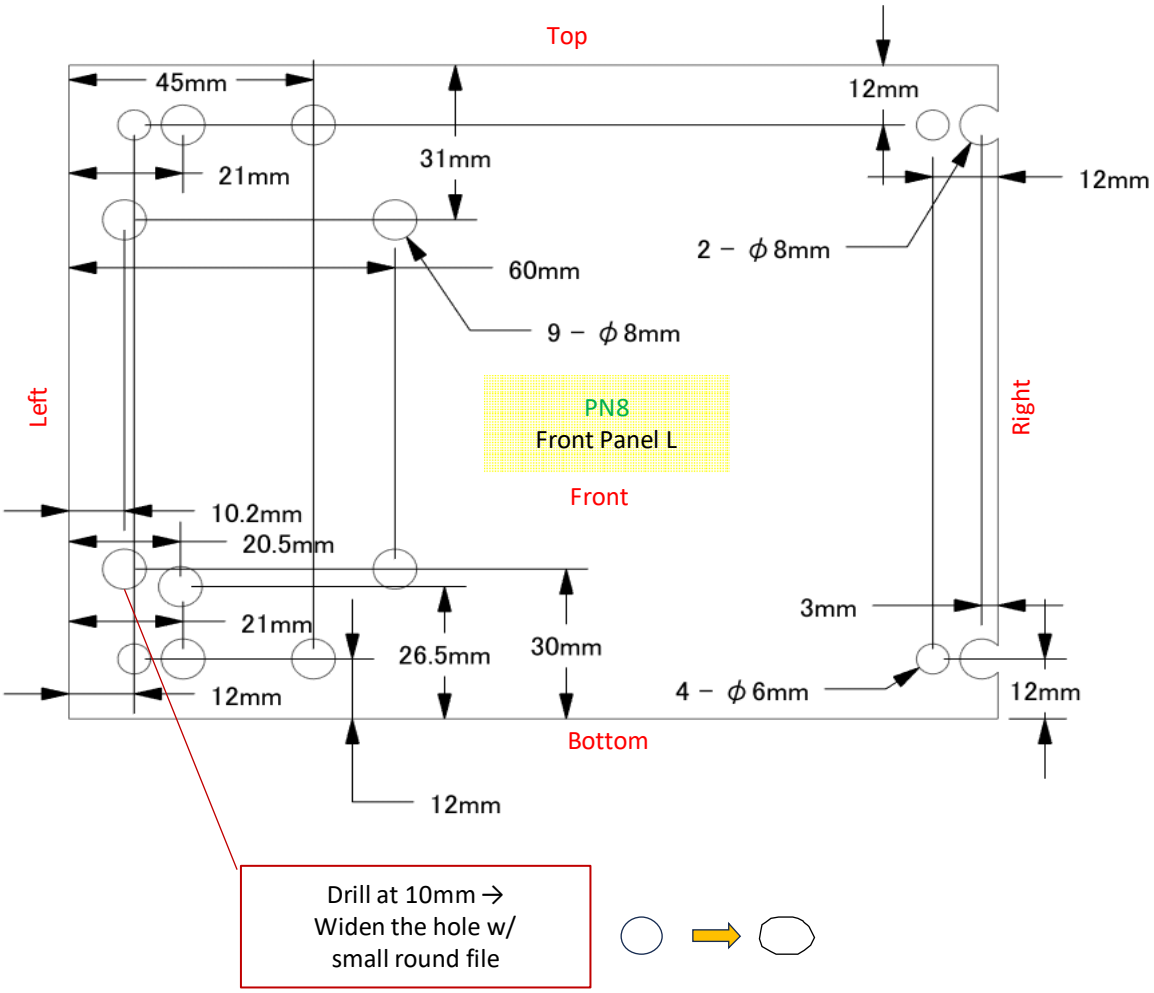
Margin: 3mm



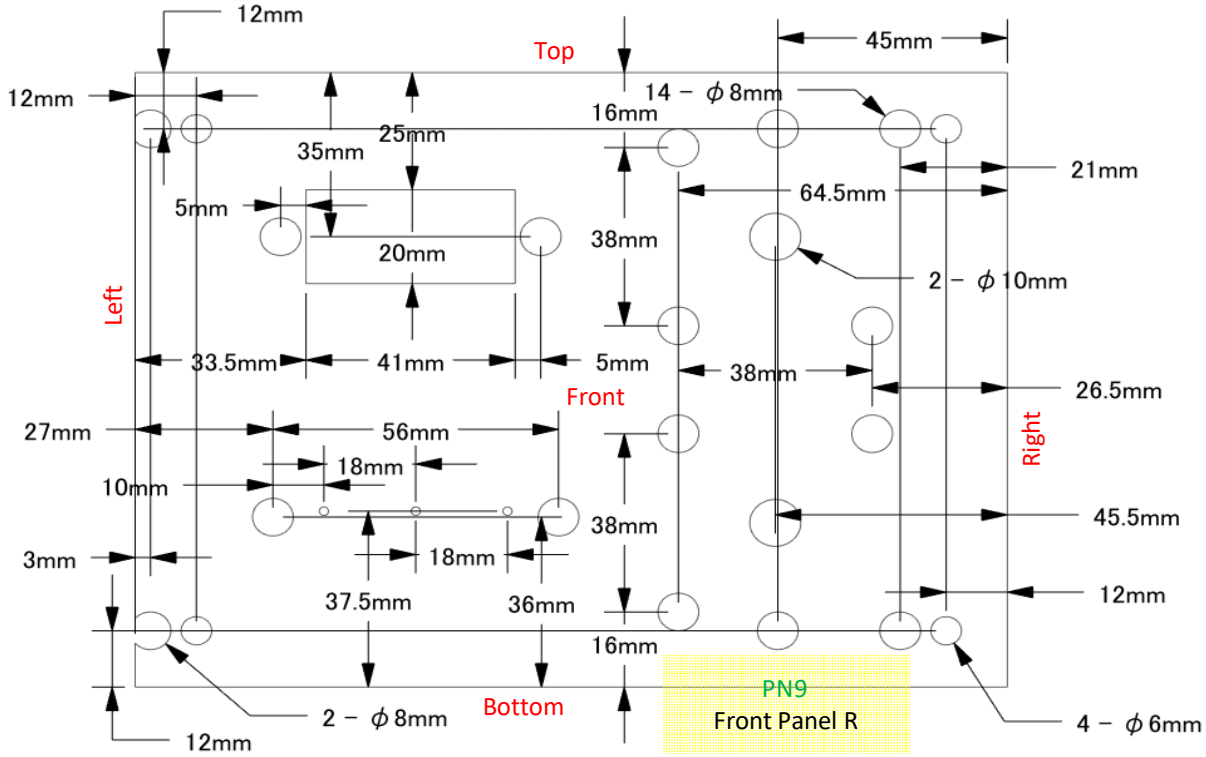
*** PN2 Bottom Panel**



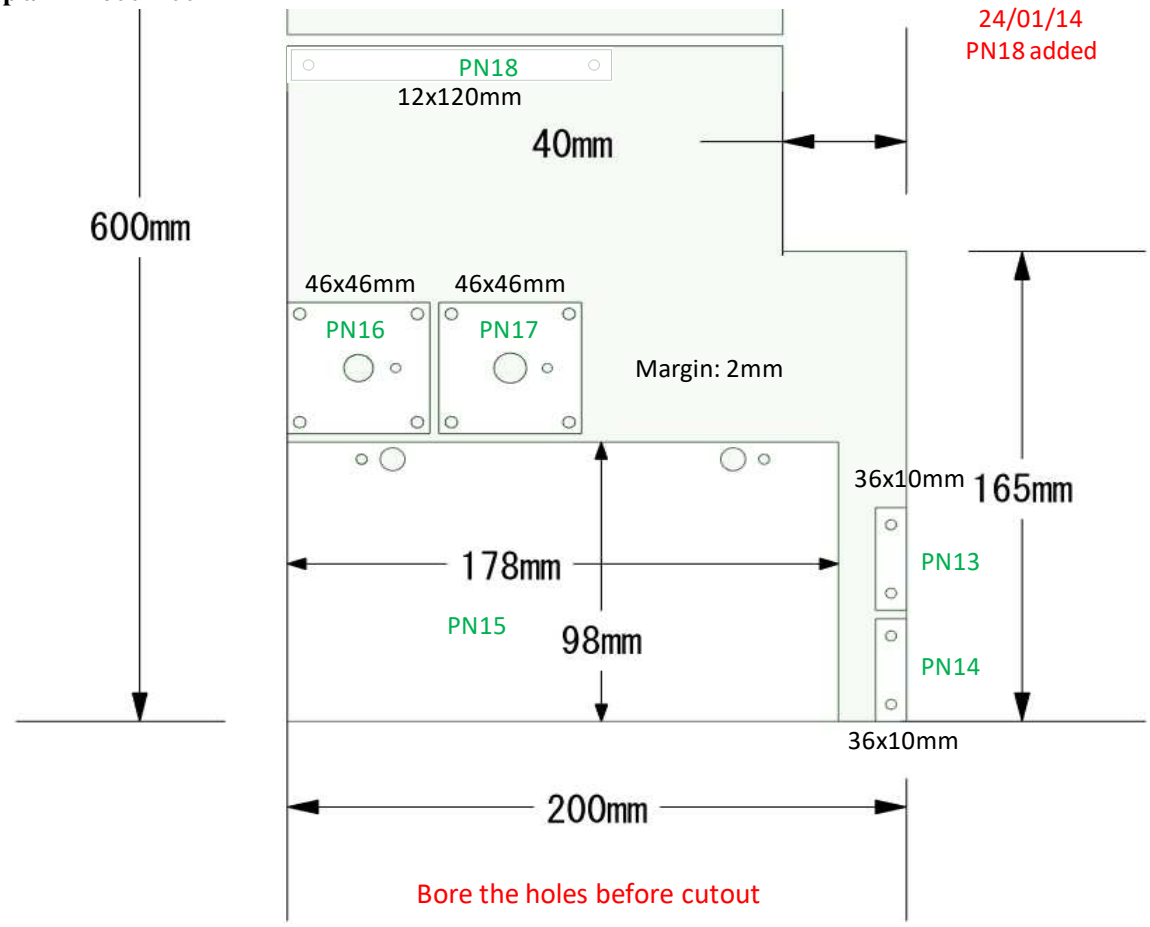
*** PN8 Front Panel L**



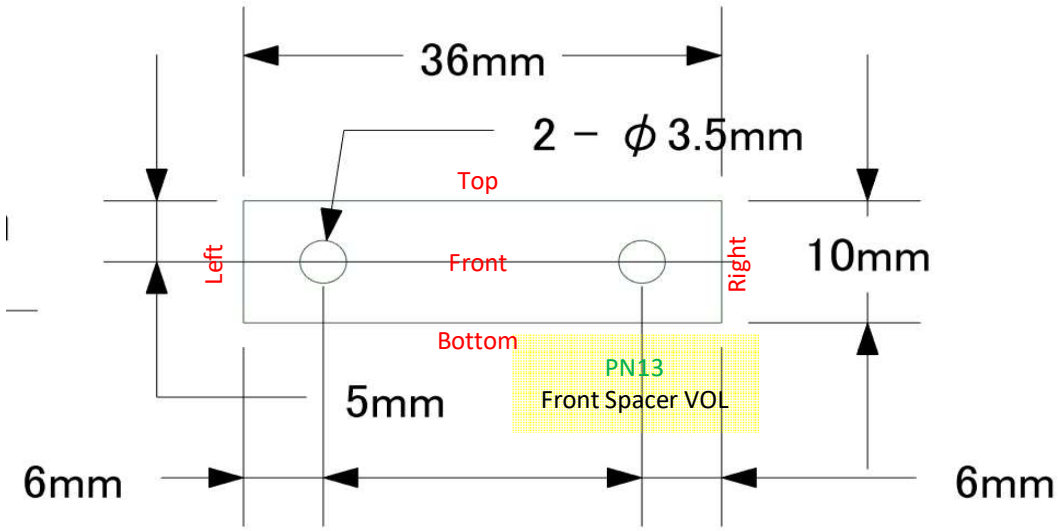
*** PN9 Front Panel R**



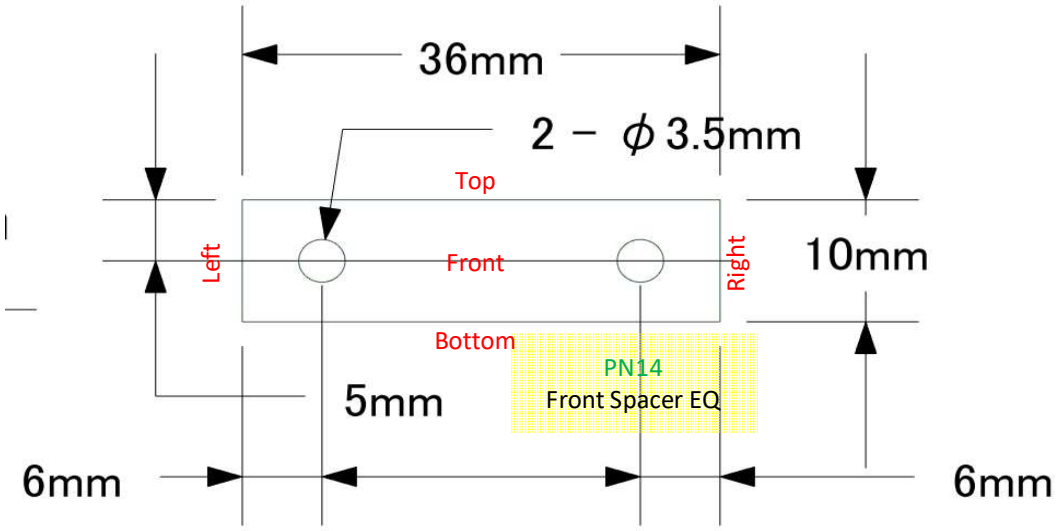
*** Cut plan - 1x600x200mm**



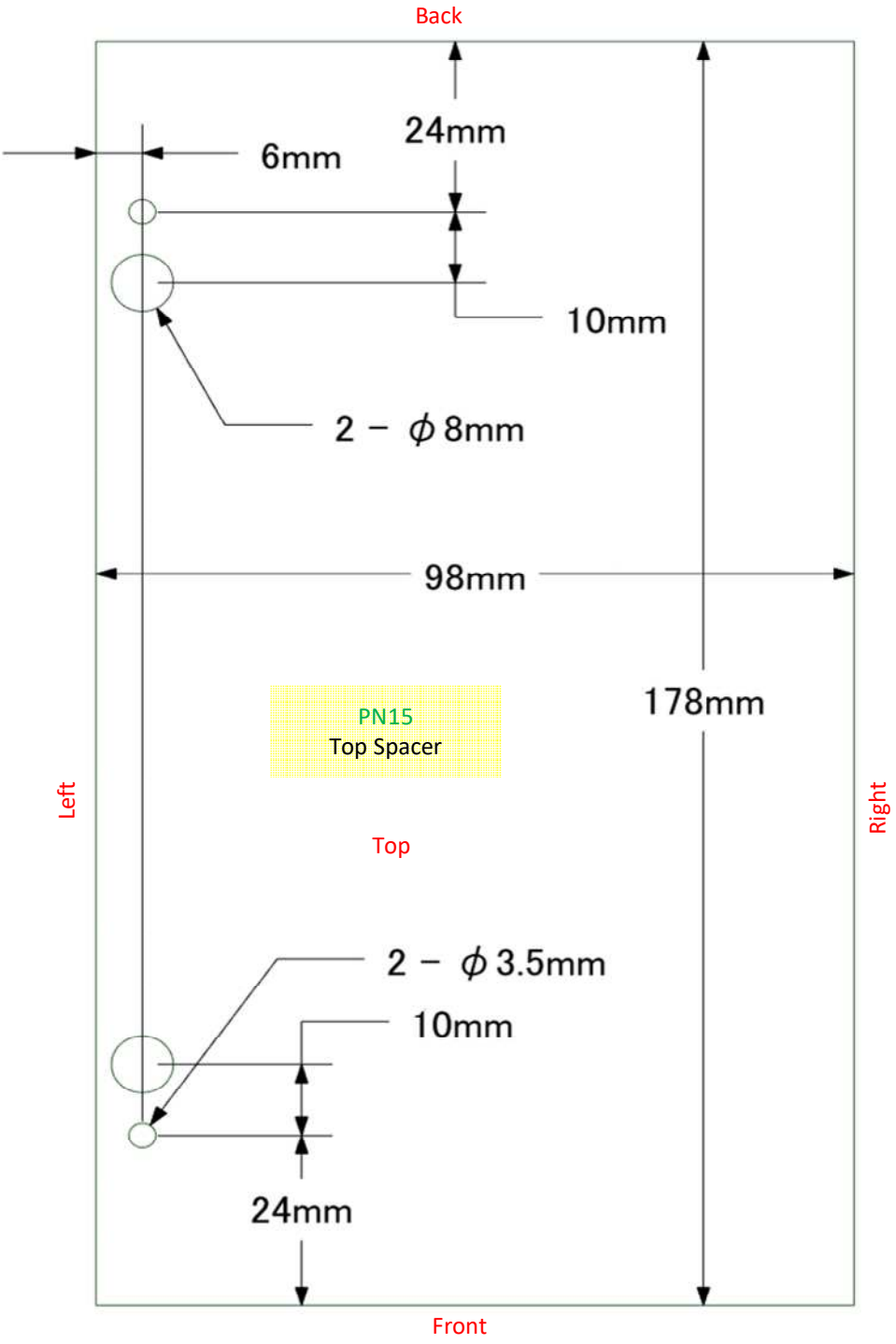
*** PN13 Front Spacer VOL**



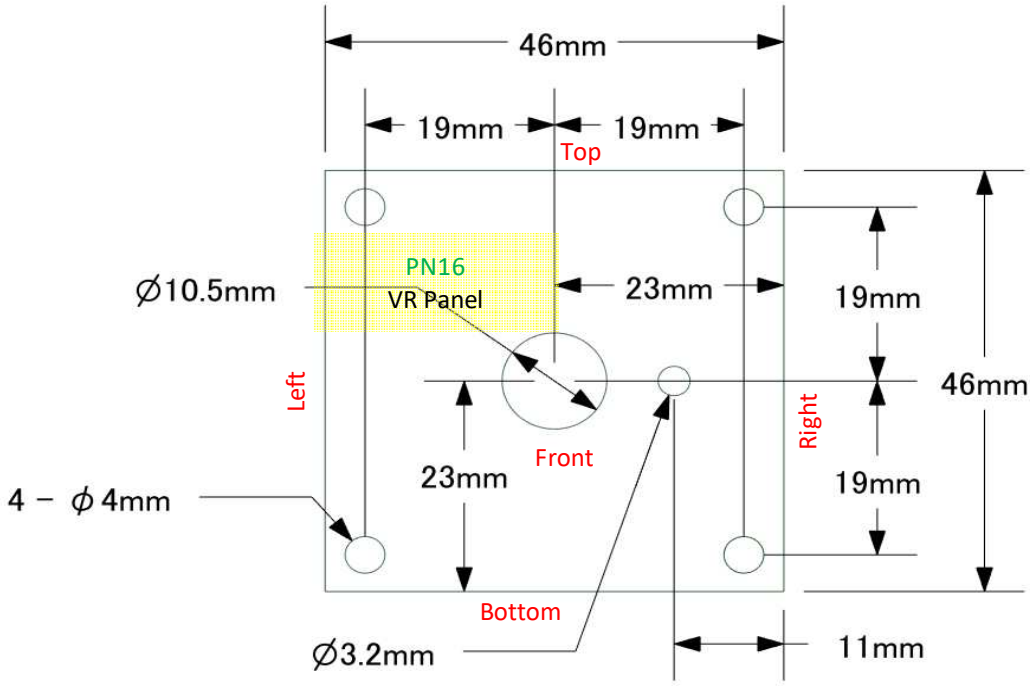
*** PN14 Front Spacer EQ**



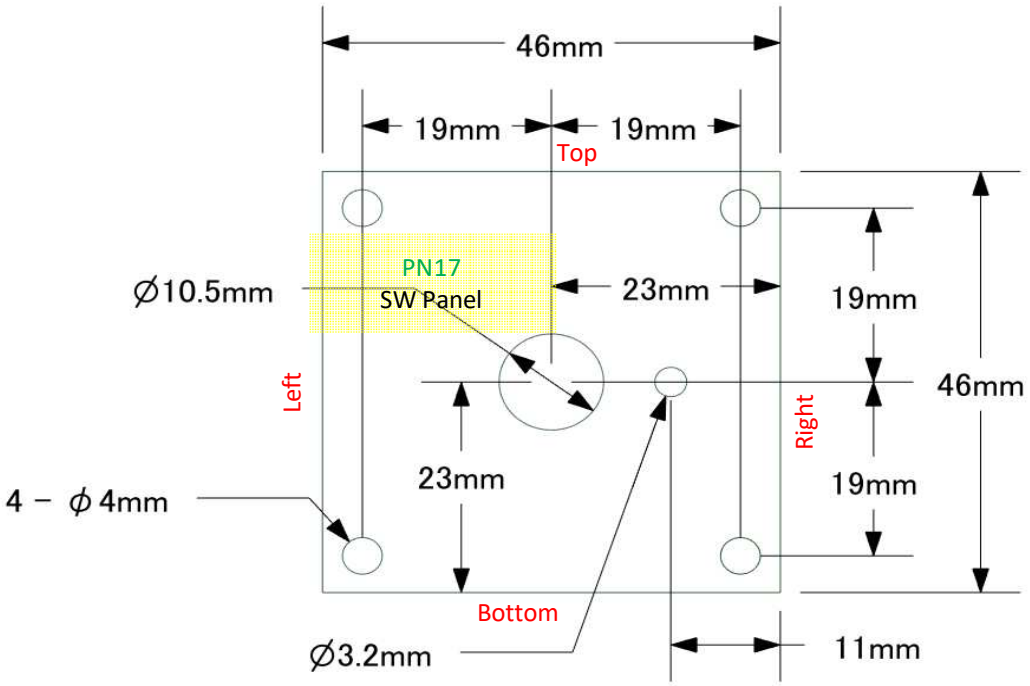
*** PN15 Top Spacer**



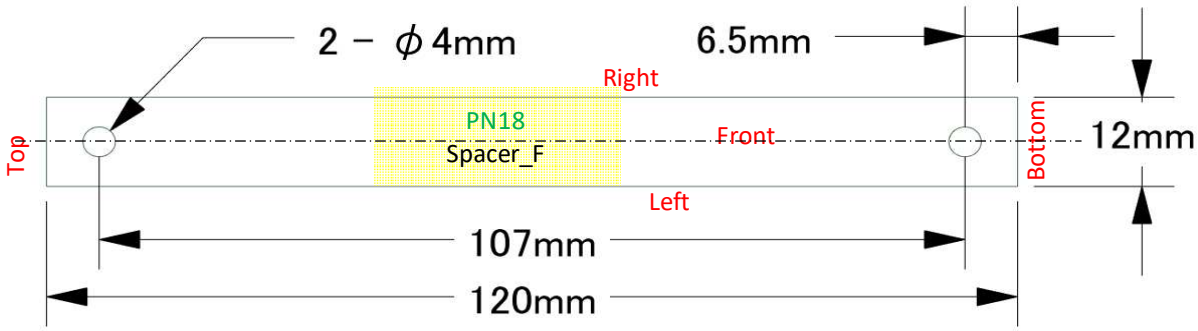
*** PN16 VR Panel**



*** PN17 SW Panel**

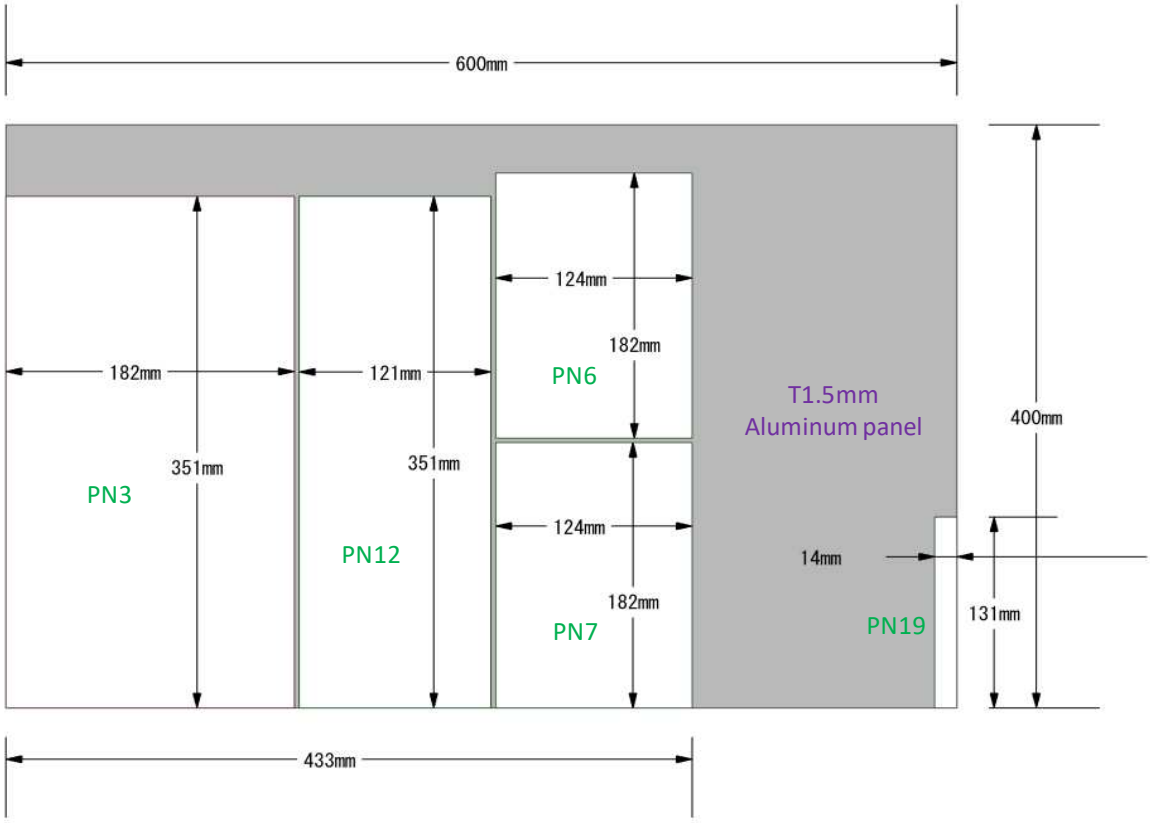


24/01/14
PN18 added

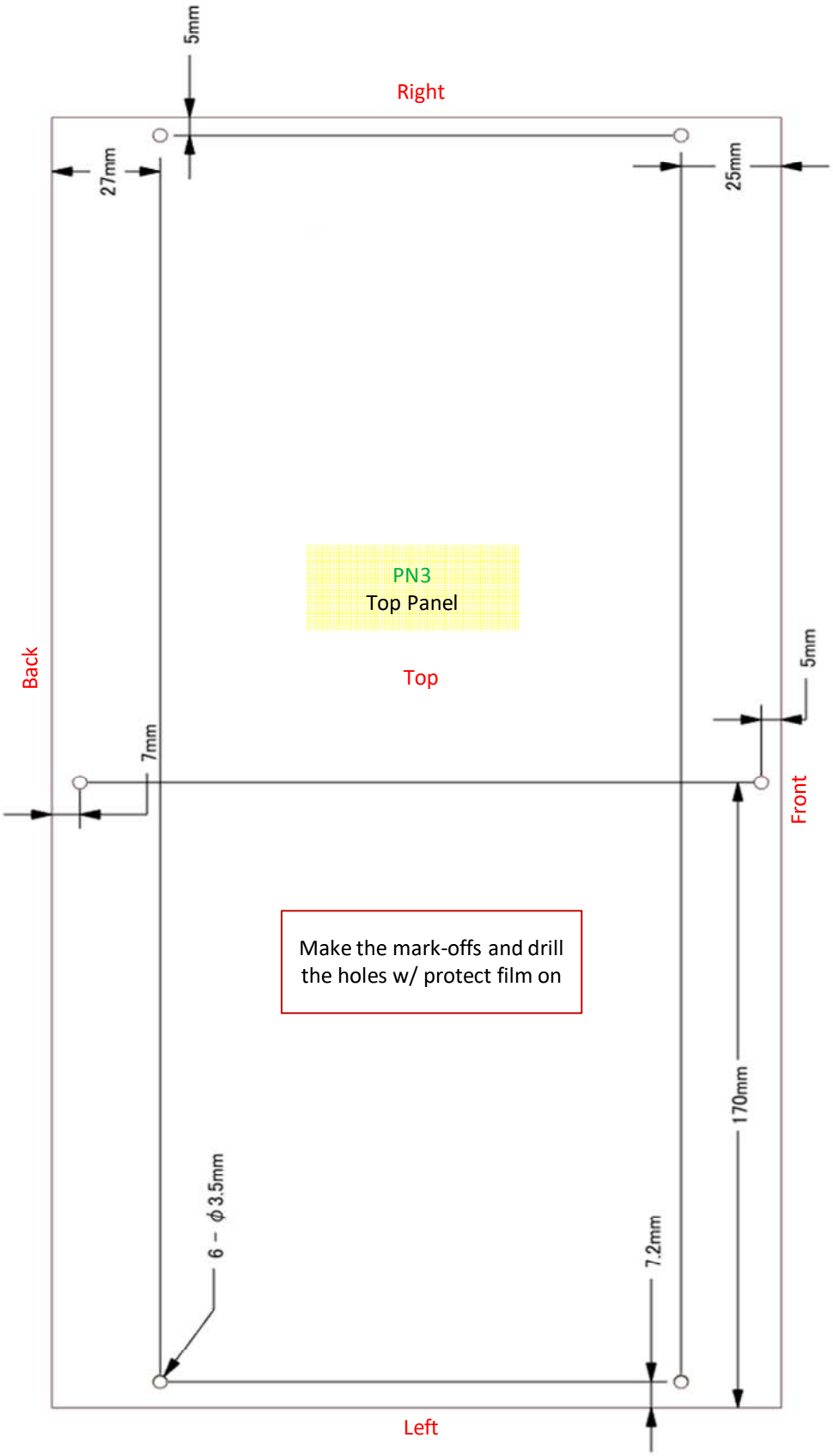


Aluminum Panels - T1.5mm

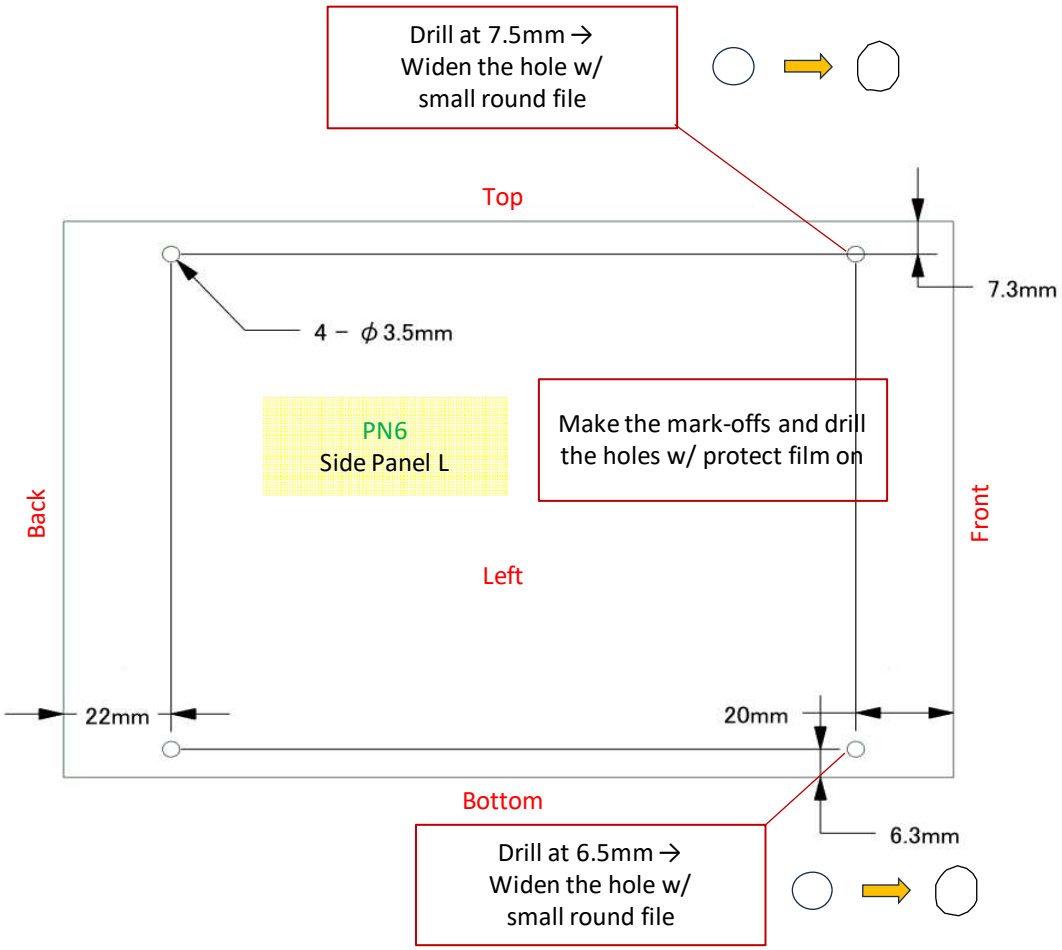
*** Cut plan - 1.5x600x400mm**



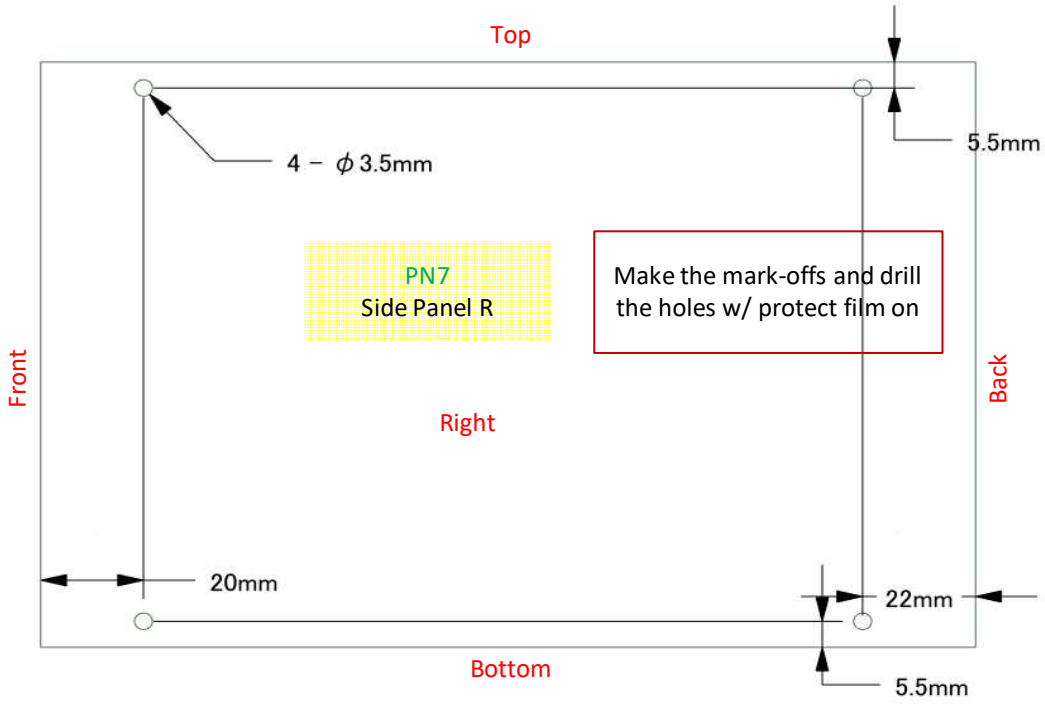
*** PN3 Top Panel**



*** PN6 Side Panel L**

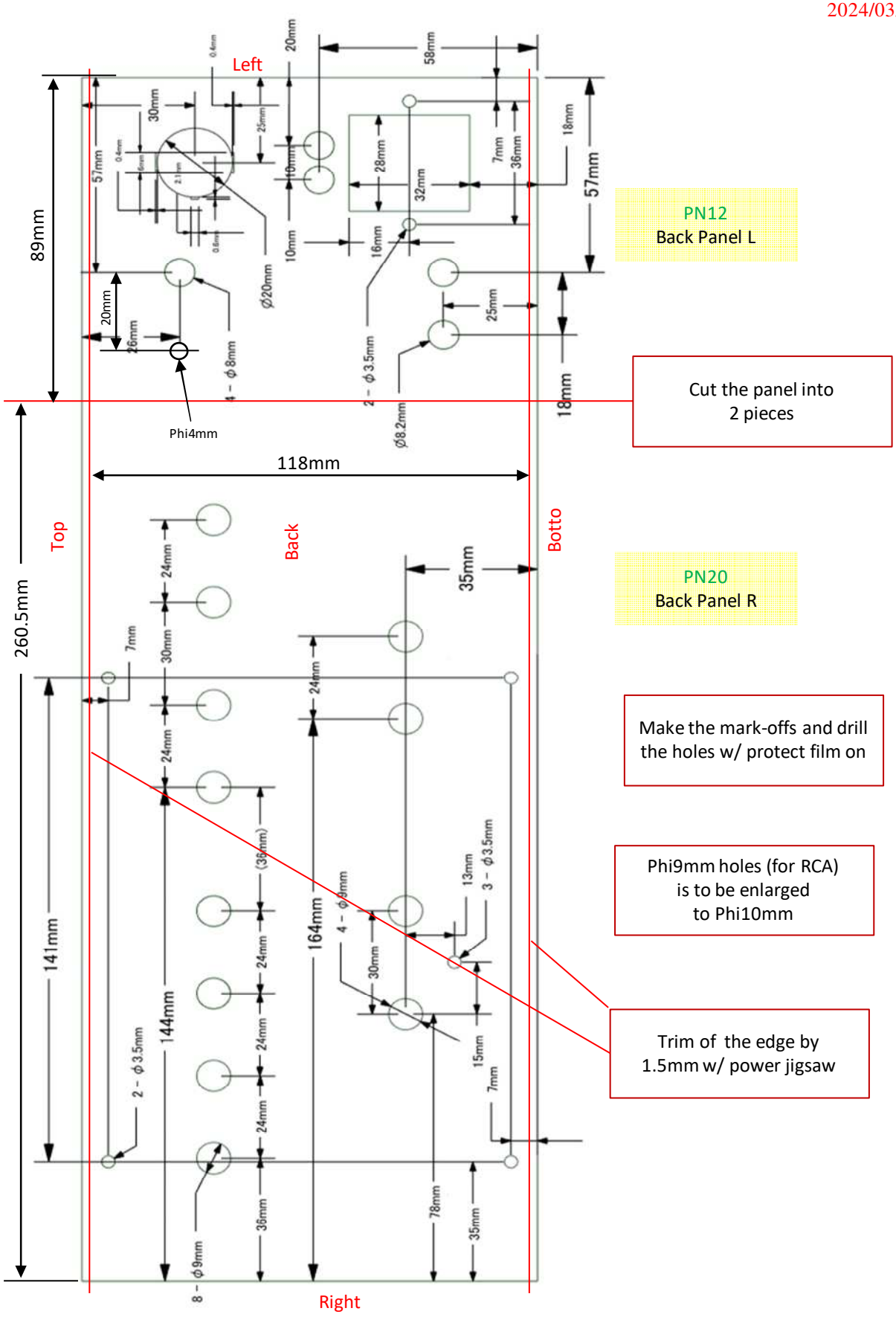


*** PN7 Side Panel R**



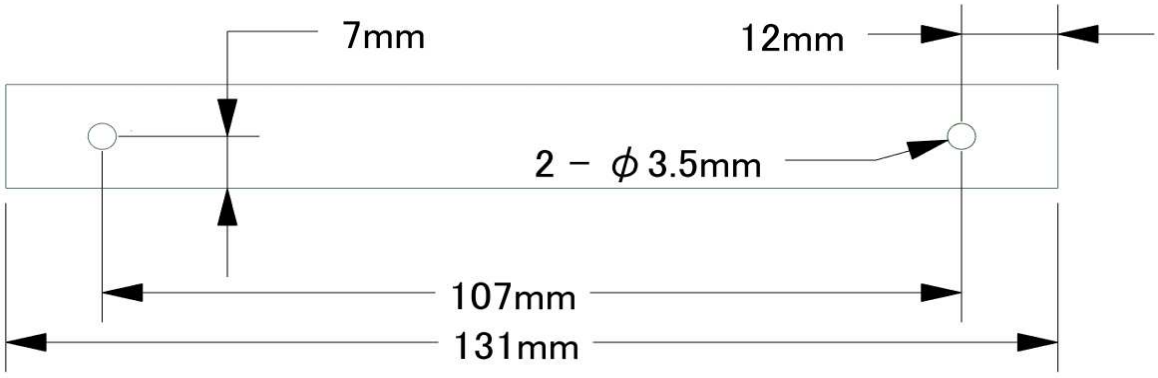
*** PN12 Back Panel**

2024/03/26



*** PN19 Ornament**

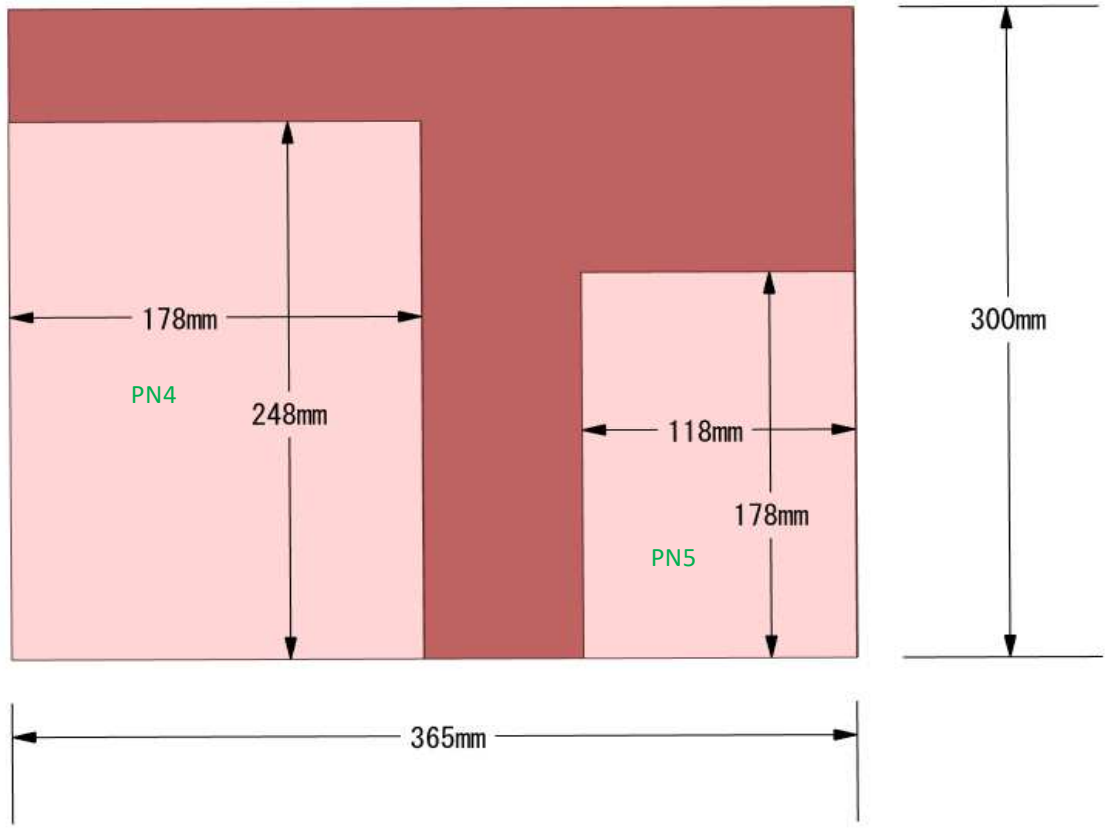
[2024/01/15] added



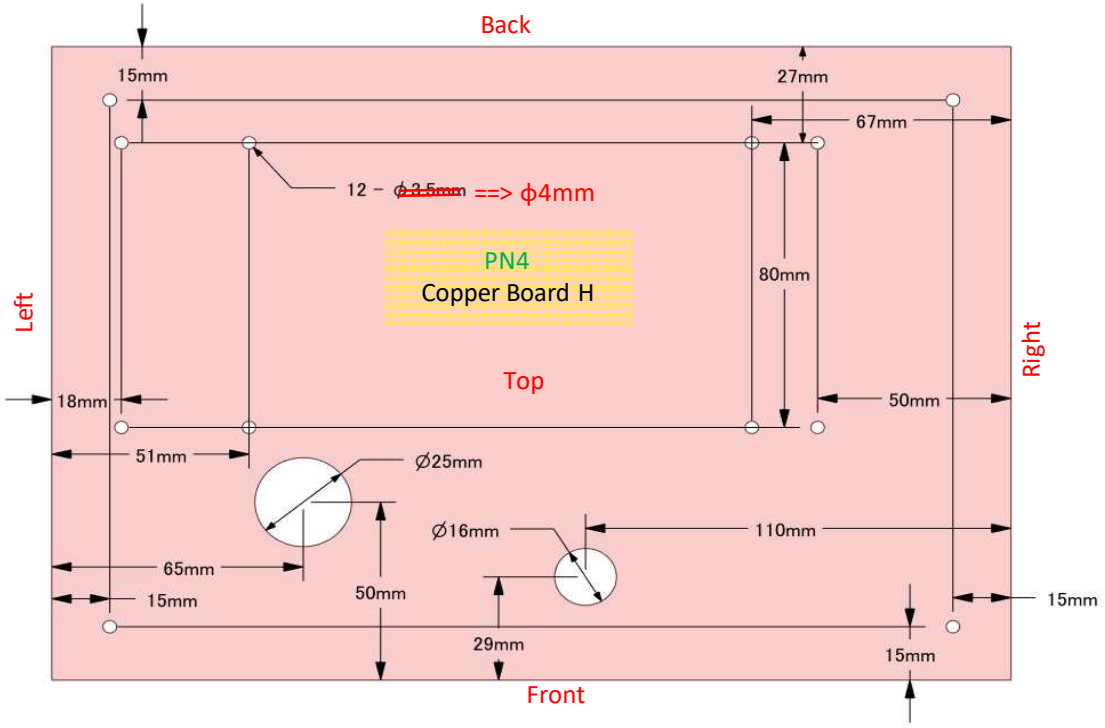
[2024/03/26] Not used

Copper Panels - T1.0mm

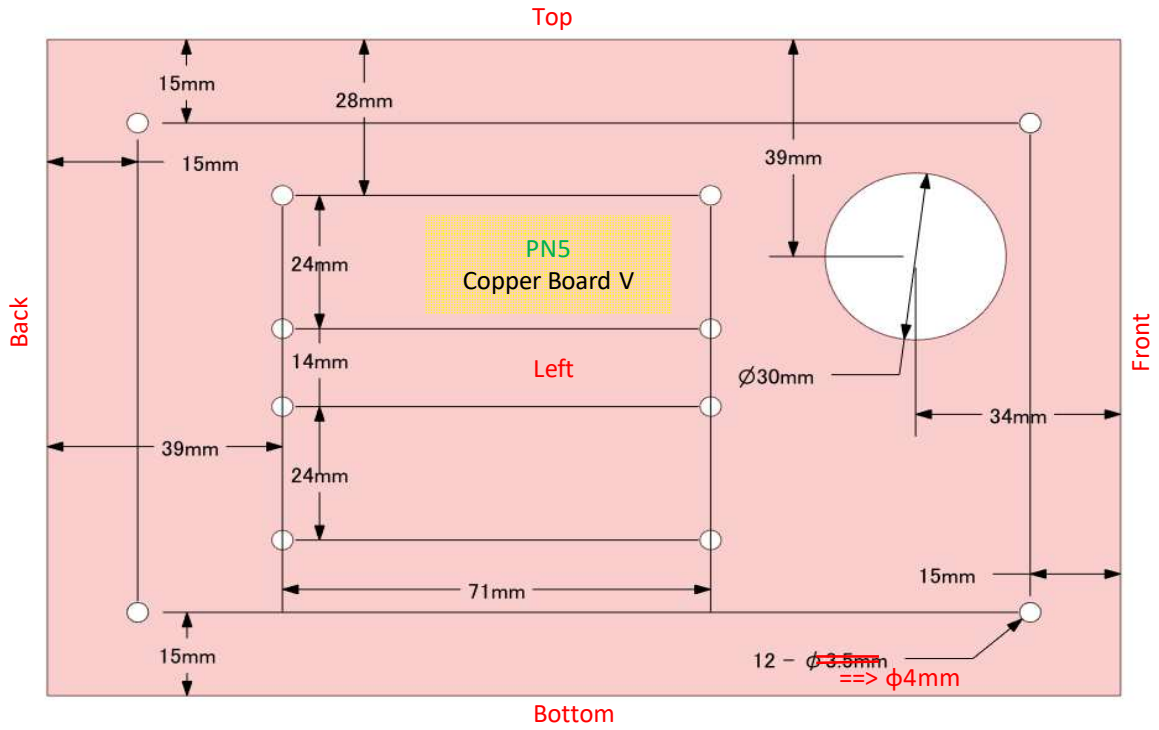
*** Cut plan - 1x365x300mm**



*** PN4 Copper Board H**

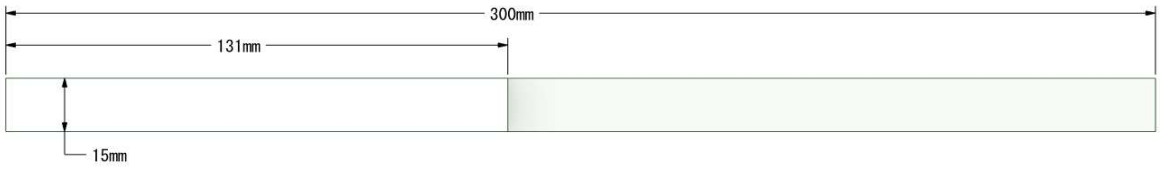


*** PN5 Copper Board V**

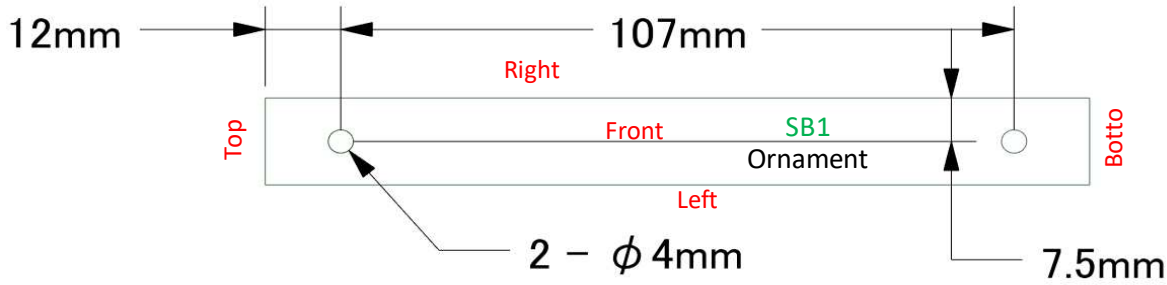


Alminum Rectangular Bar - 5x15mm

*** Cut plan - 5x15x300mm** [2024/01/15] deleted

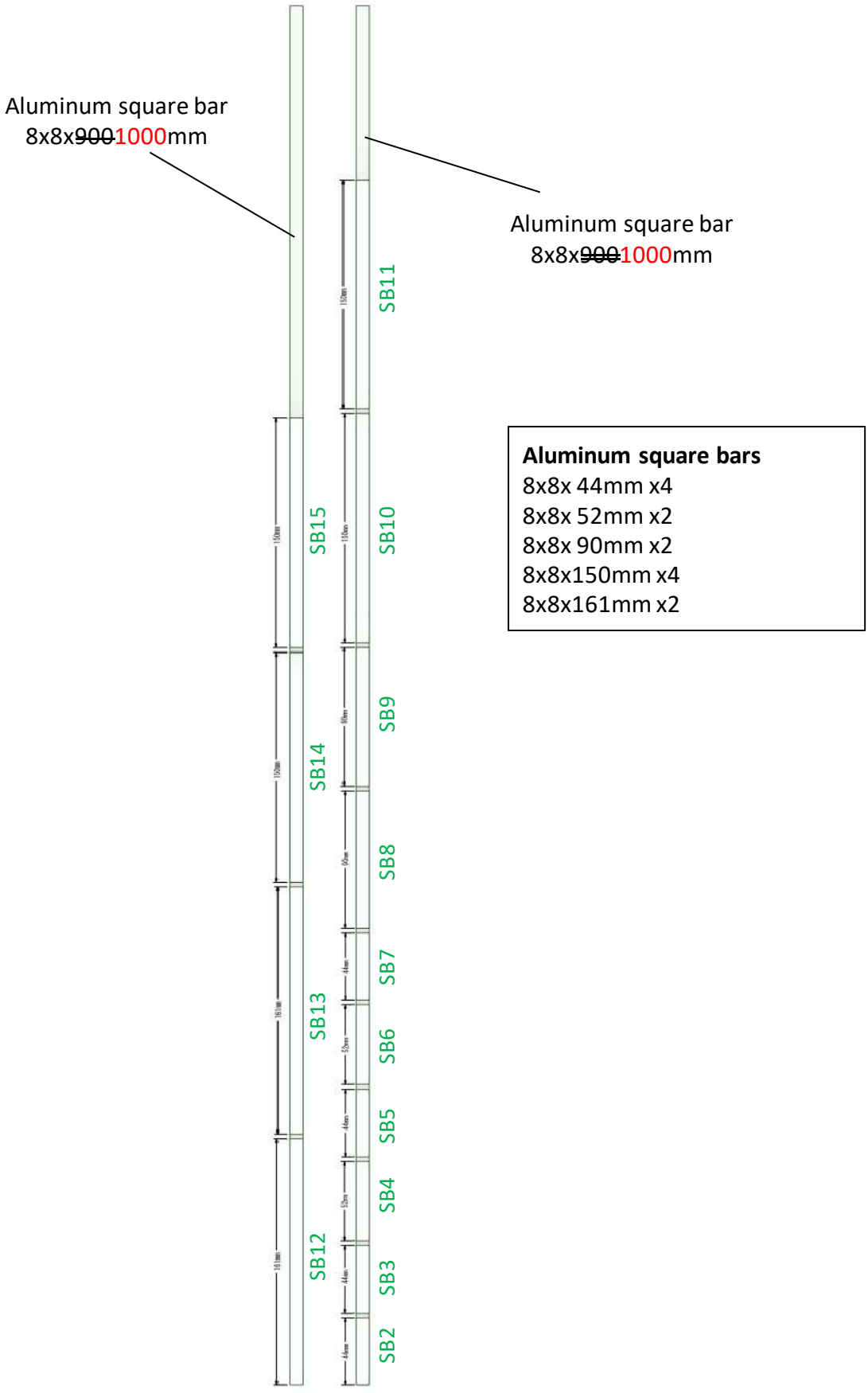


*** SB1 Ornament**



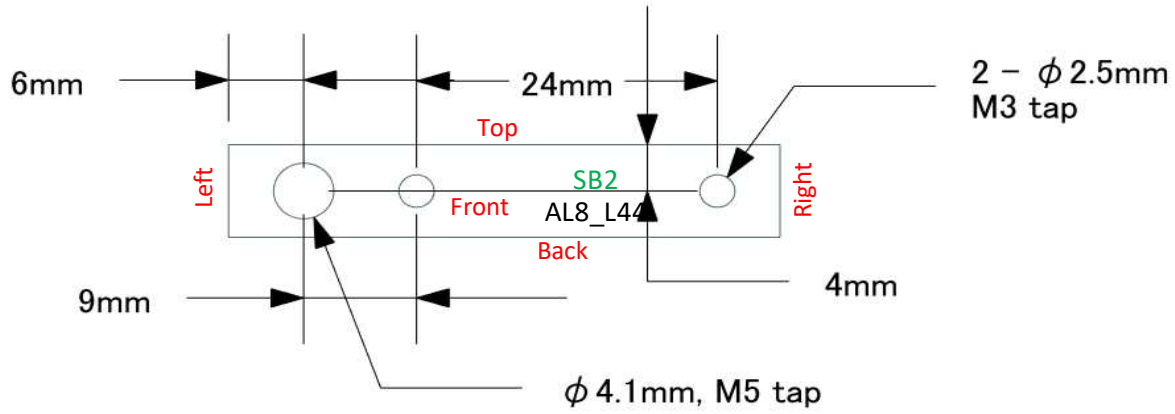
Alminum Square Bar - 8x8mm

*** Cut plan - 8x8x~~900~~1000mm**

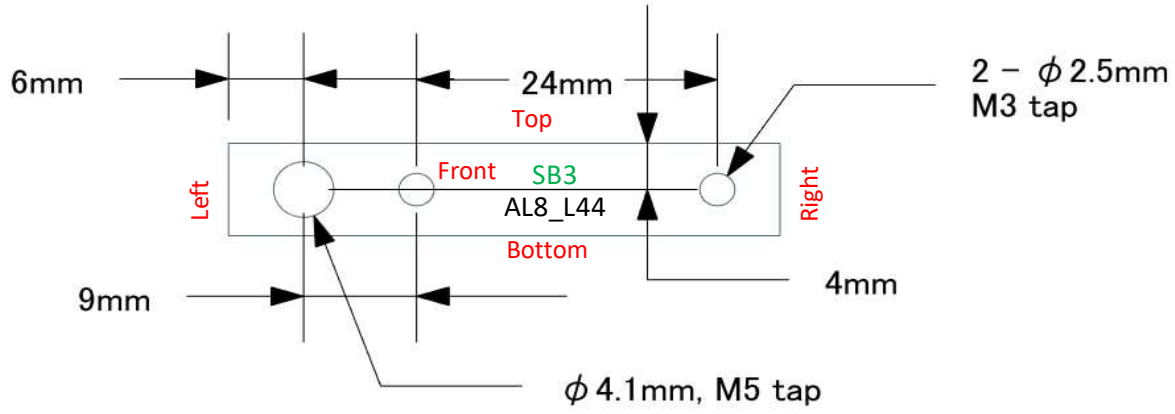


Aluminum square bars
8x8x 44mm x4
8x8x 52mm x2
8x8x 90mm x2
8x8x150mm x4
8x8x161mm x2

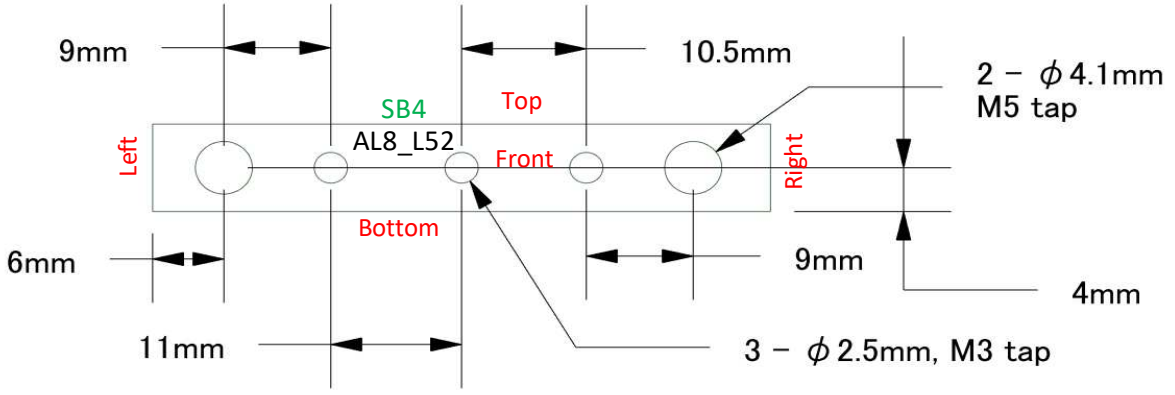
*** SB2 AL8_L44**

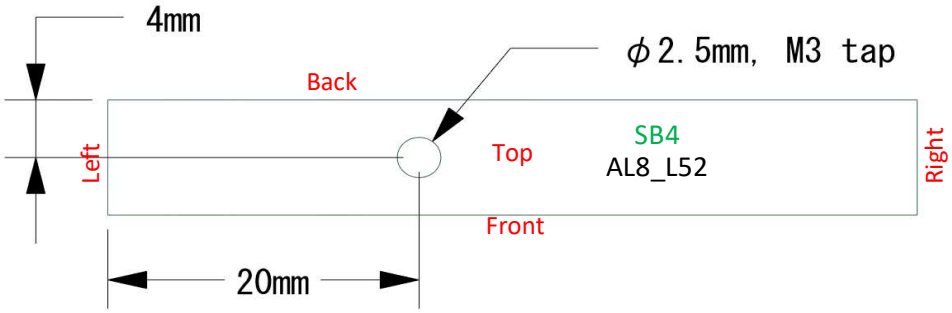


*** SB3 AL8_L44**

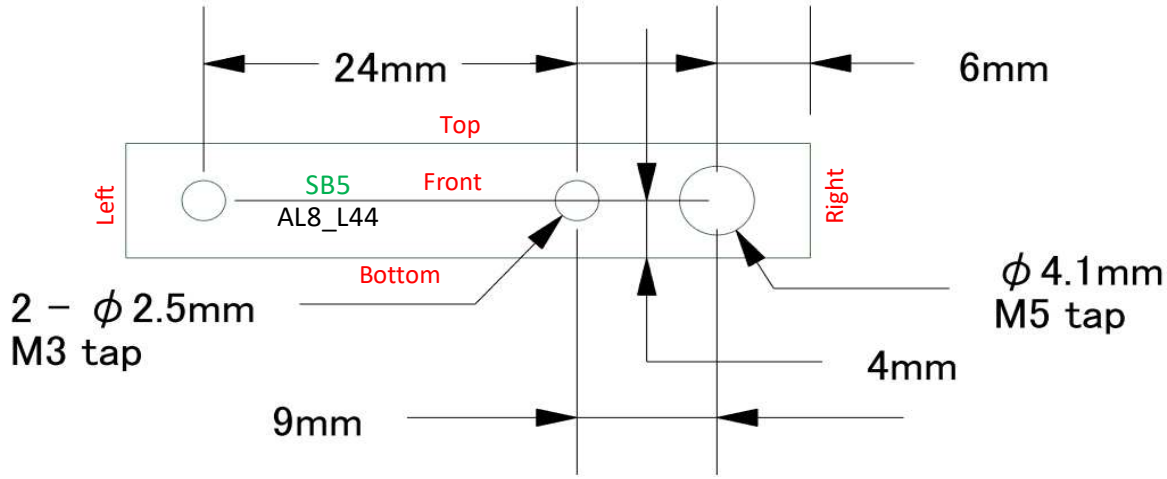


*** SB4 AL8_L52**

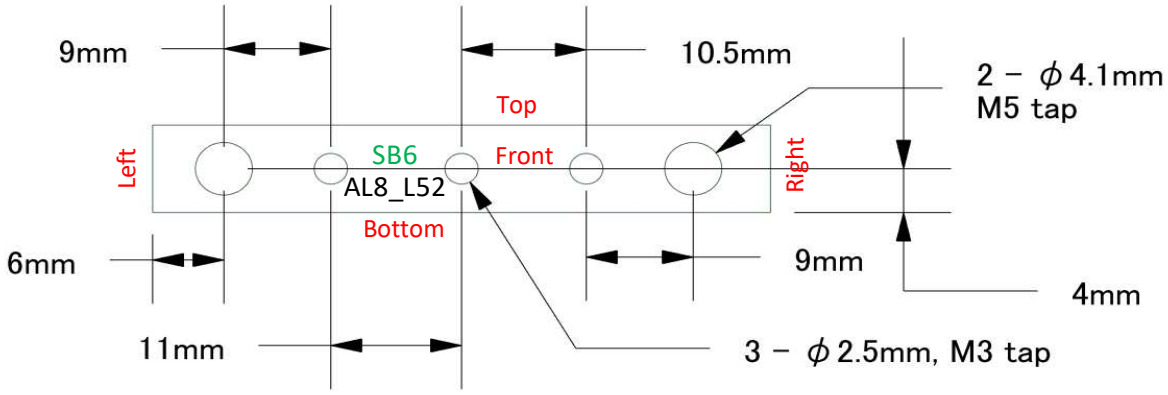


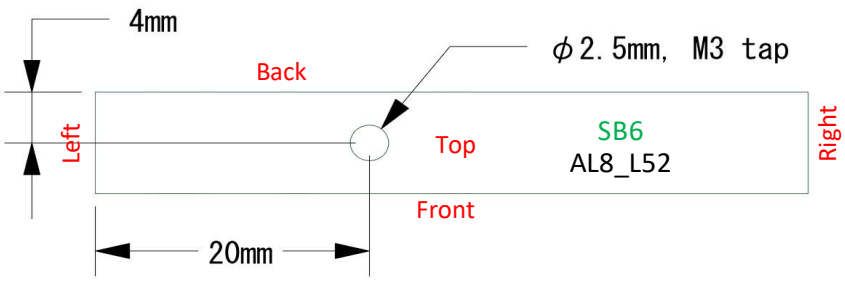


*** SB5 AL8_L44**

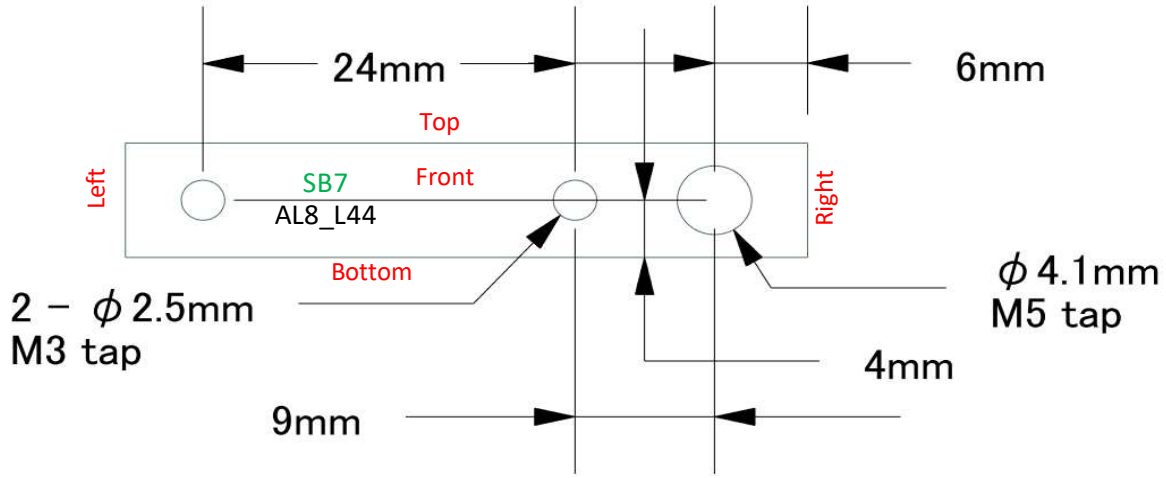


*** SB6 AL8_L52**

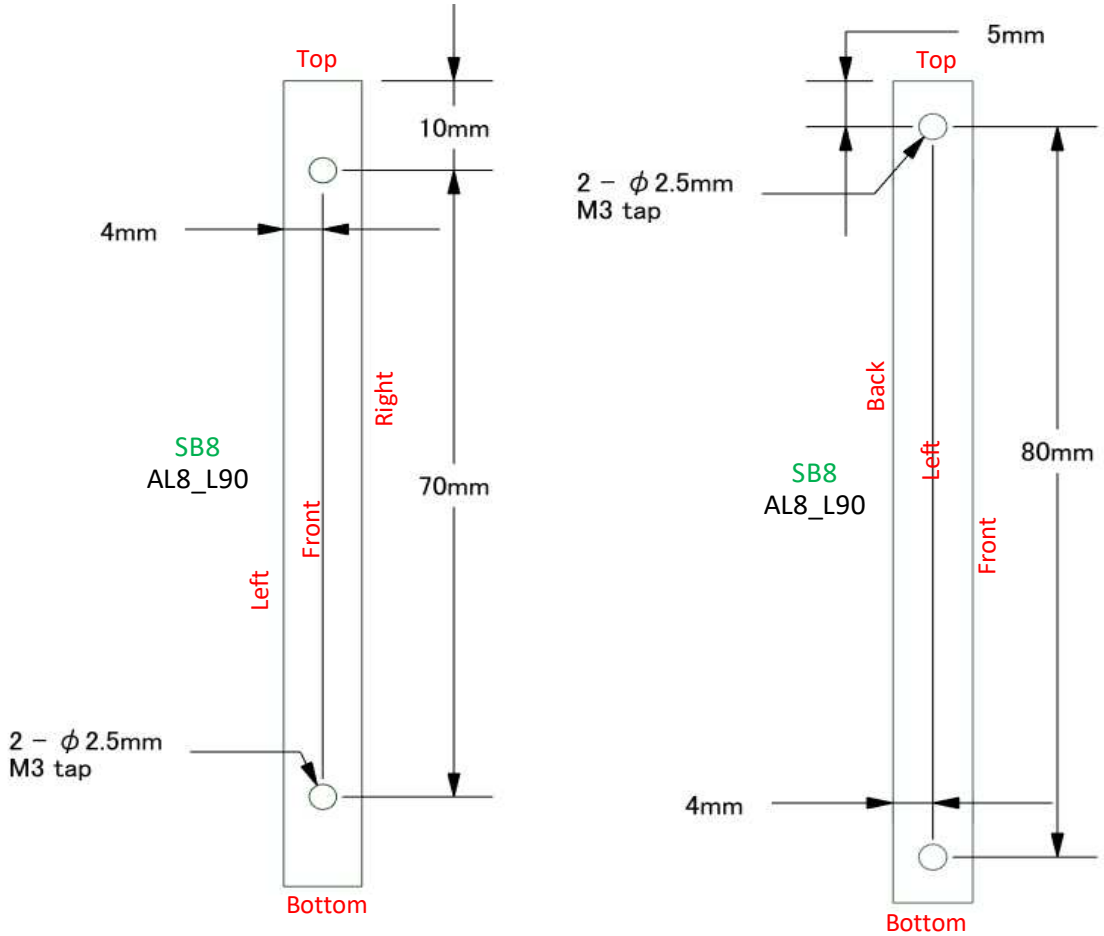




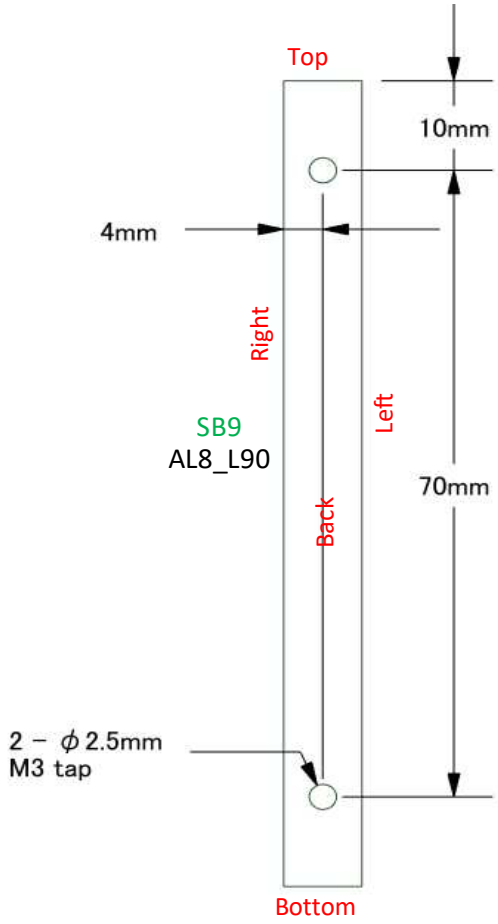
*** SB7 AL8_L44**

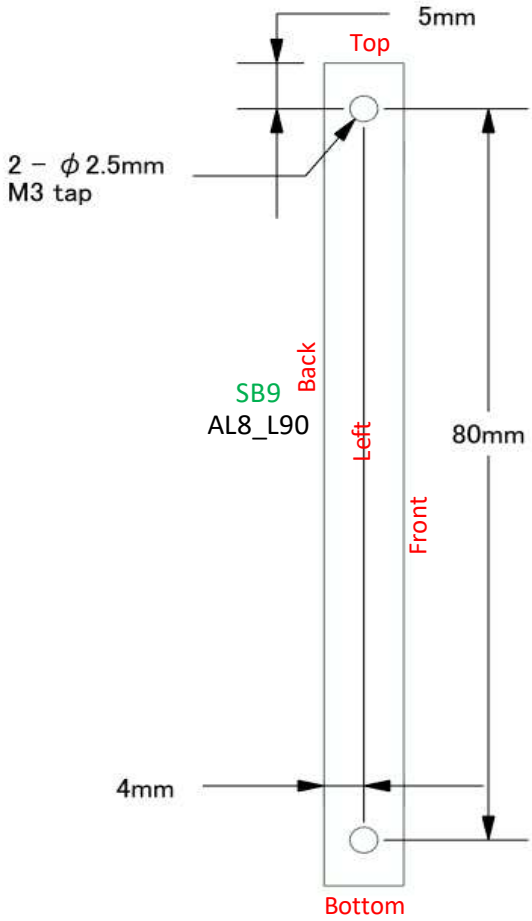


*** SB8 AL8_L90**

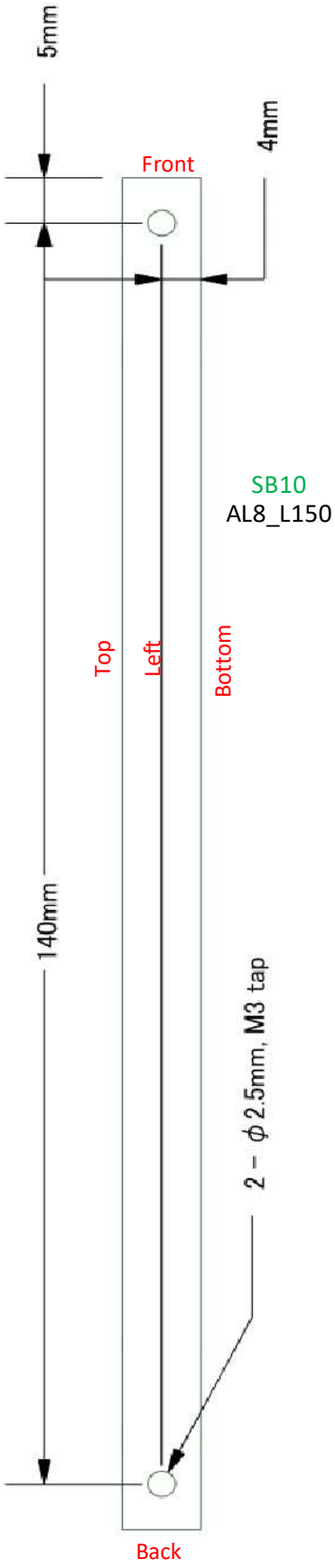


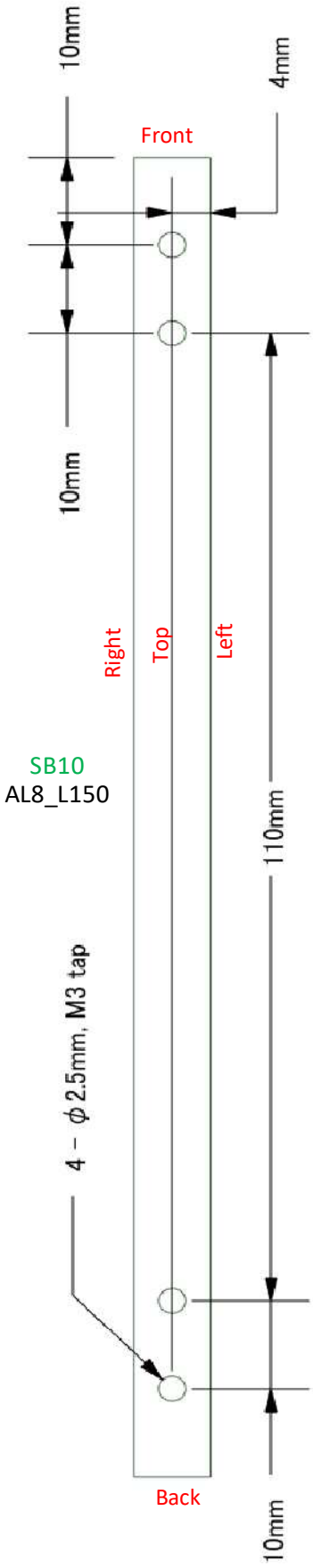
*** SB9 AL8_L90**


Top
10mm
4mm
Right
SB9
AL8_L90
Left
70mm
Back
2 – ϕ 2.5mm
M3 tap
Bottom

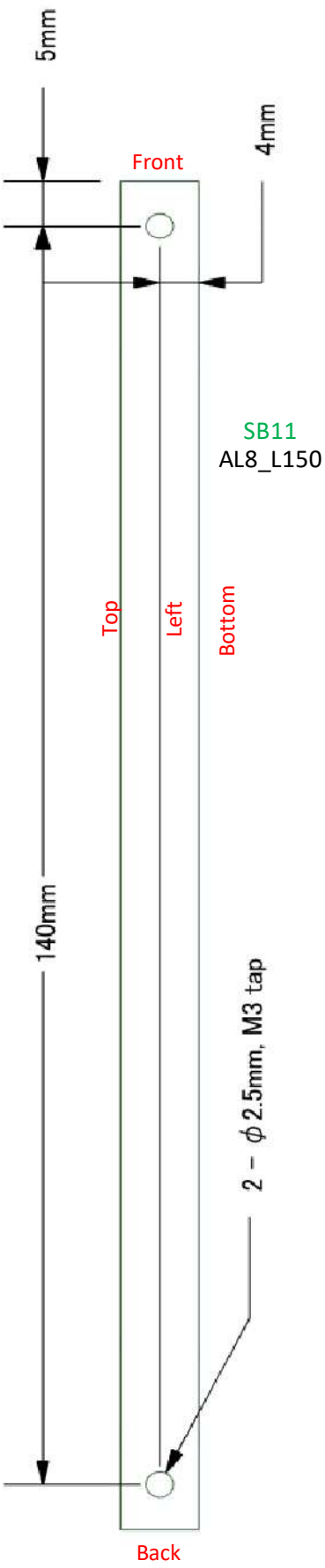

5mm
Top
2 – ϕ 2.5mm
M3 tap
SB9
AL8_L90
Back
Left
80mm
Front
4mm
Bottom

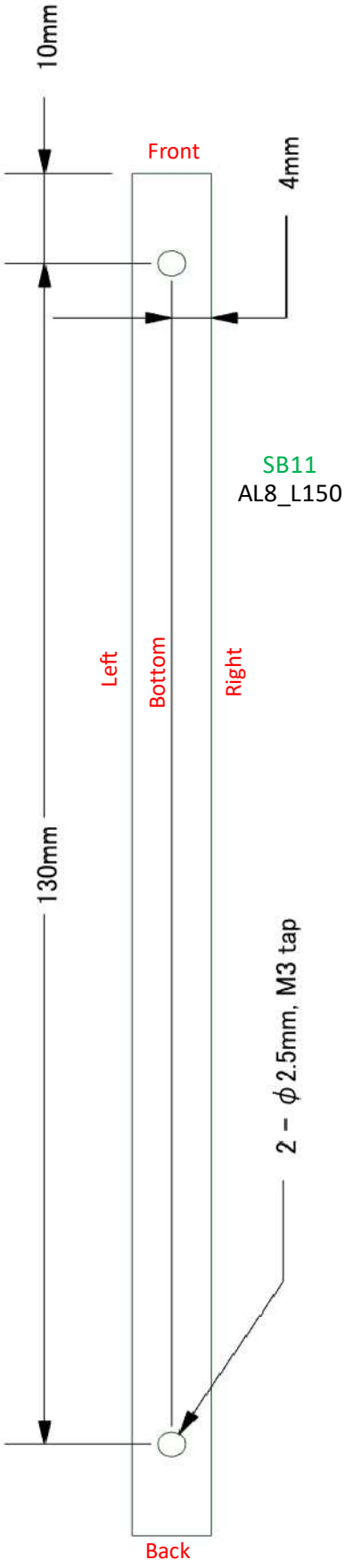
*** SB10 AL8_L150**



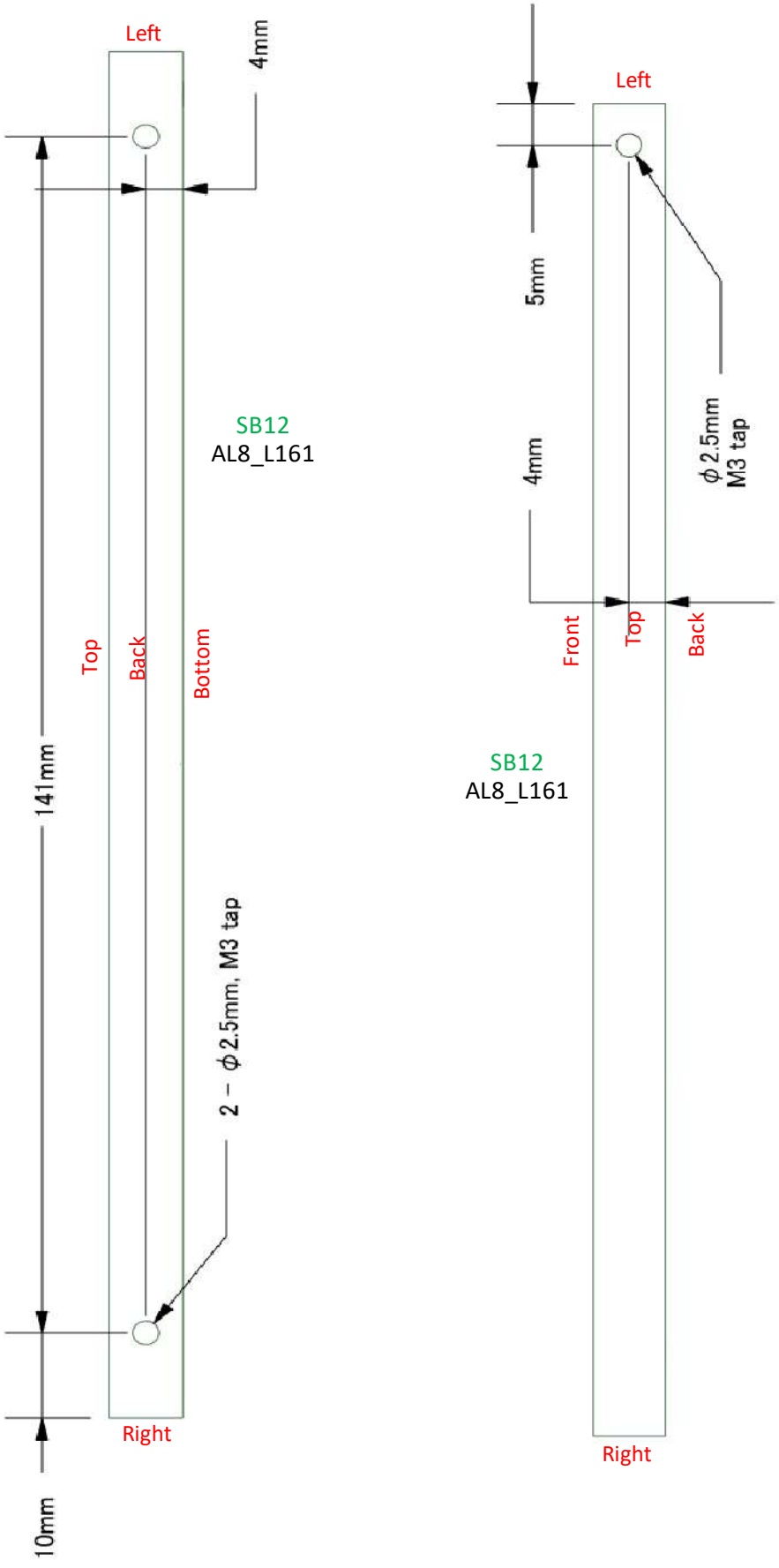


*** SB11 AL8_L150**

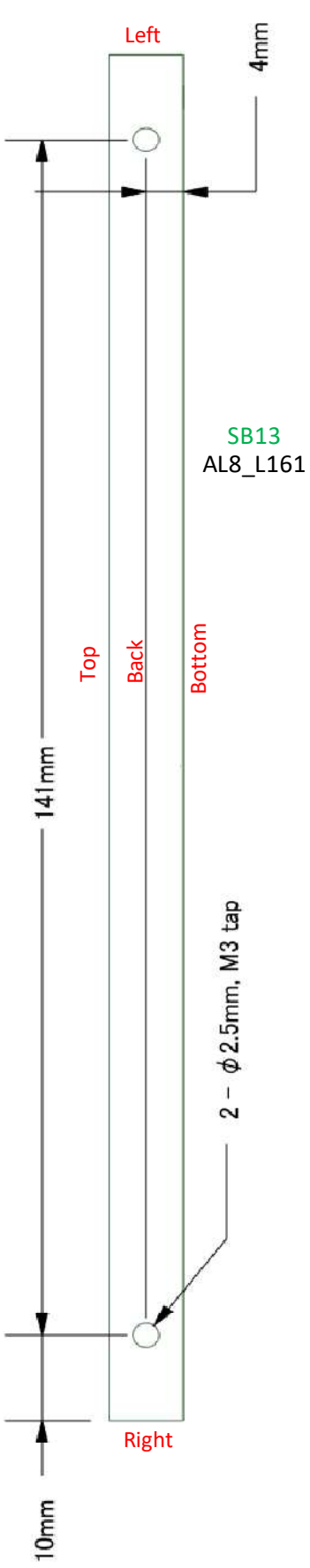


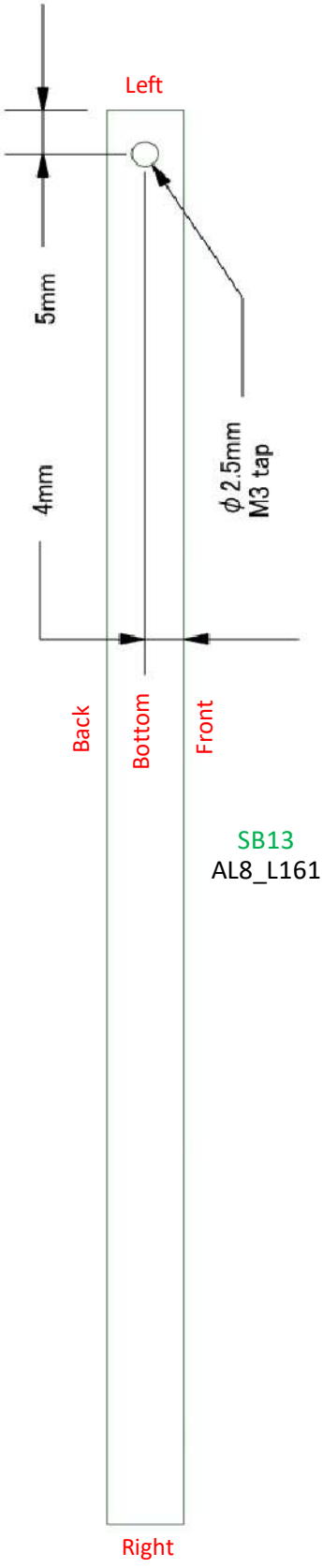


*** SB12 AL8_L161**

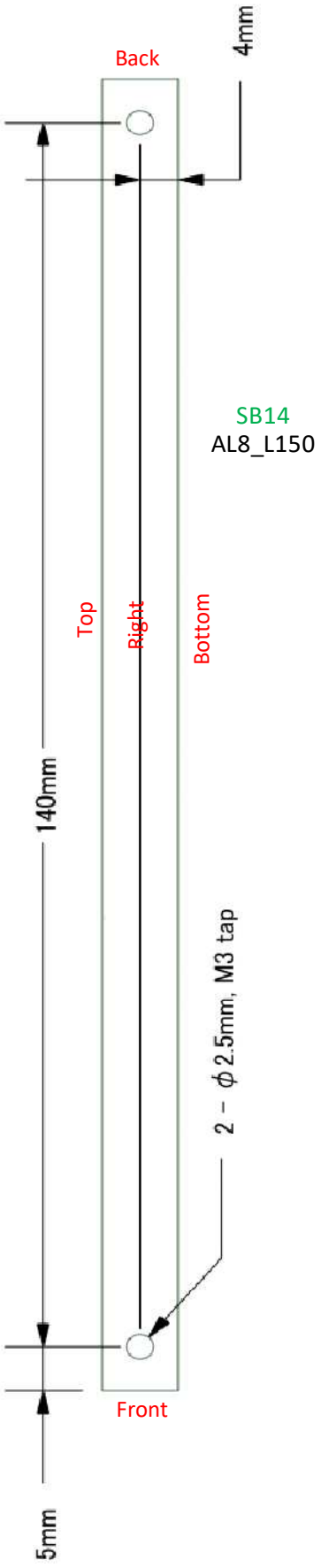


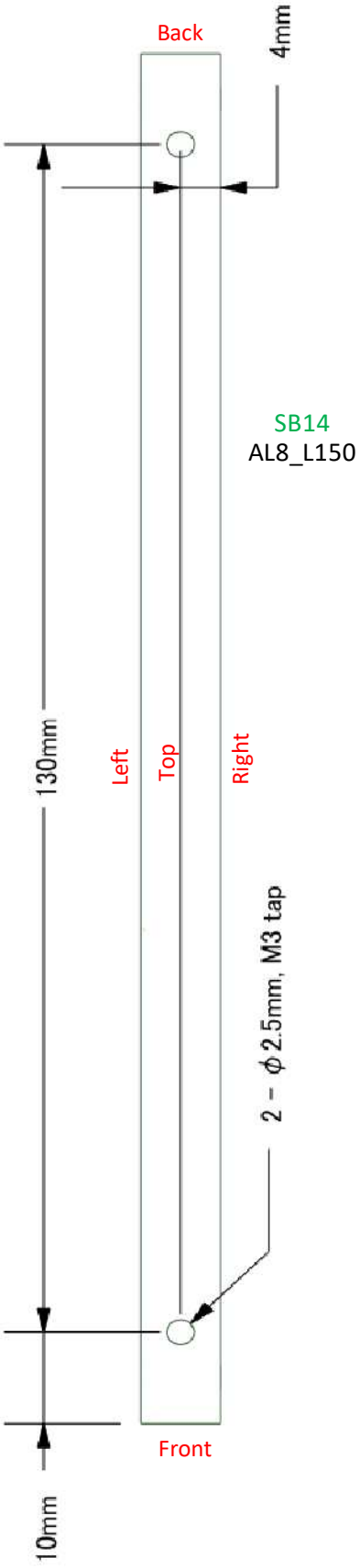
*** SB13 AL8_L161**



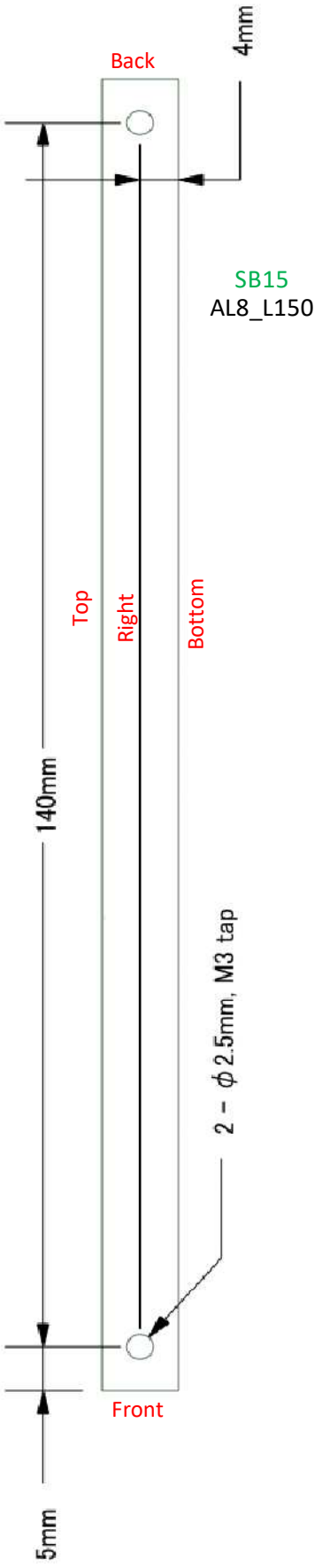


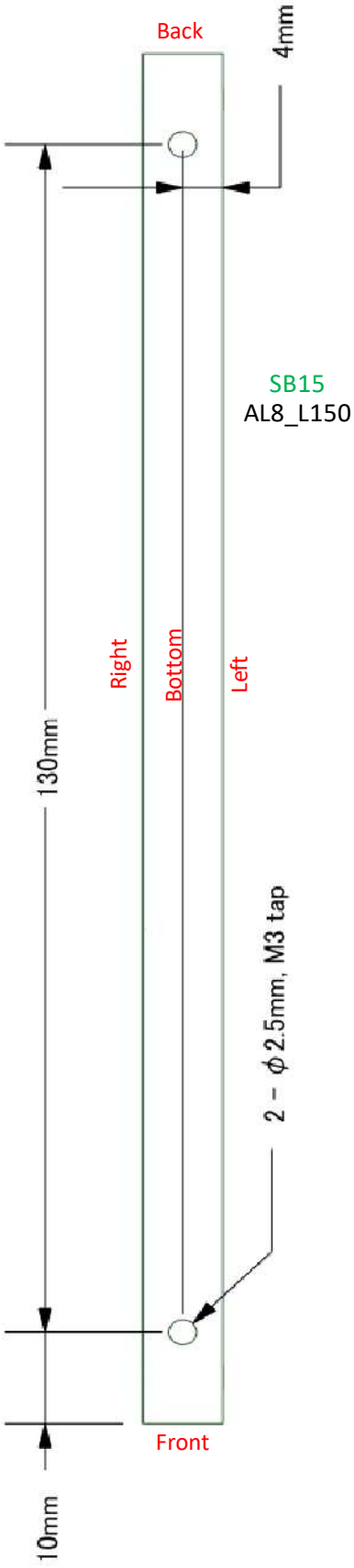
*** SB14 AL8_L150**





*** SB15 AL8_L150**





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