



CC-218 DIVERSITY

Design

2024/06/12

2025/04/29

Assy

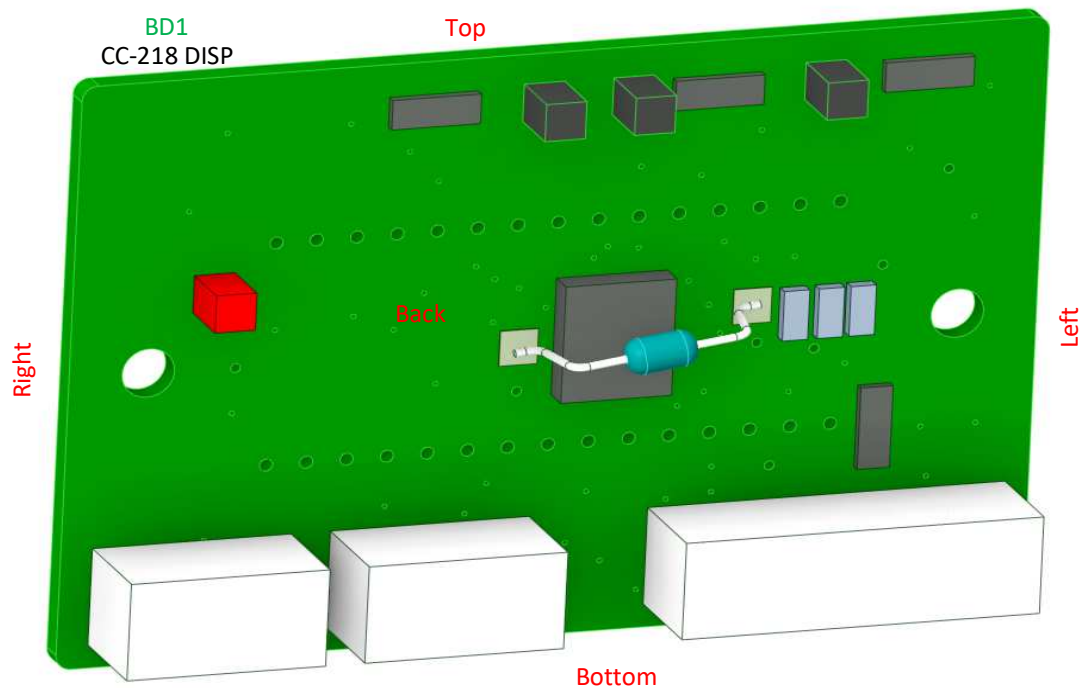
[Modules](#)[Chassis](#)[Install Modules](#)[Panels](#)

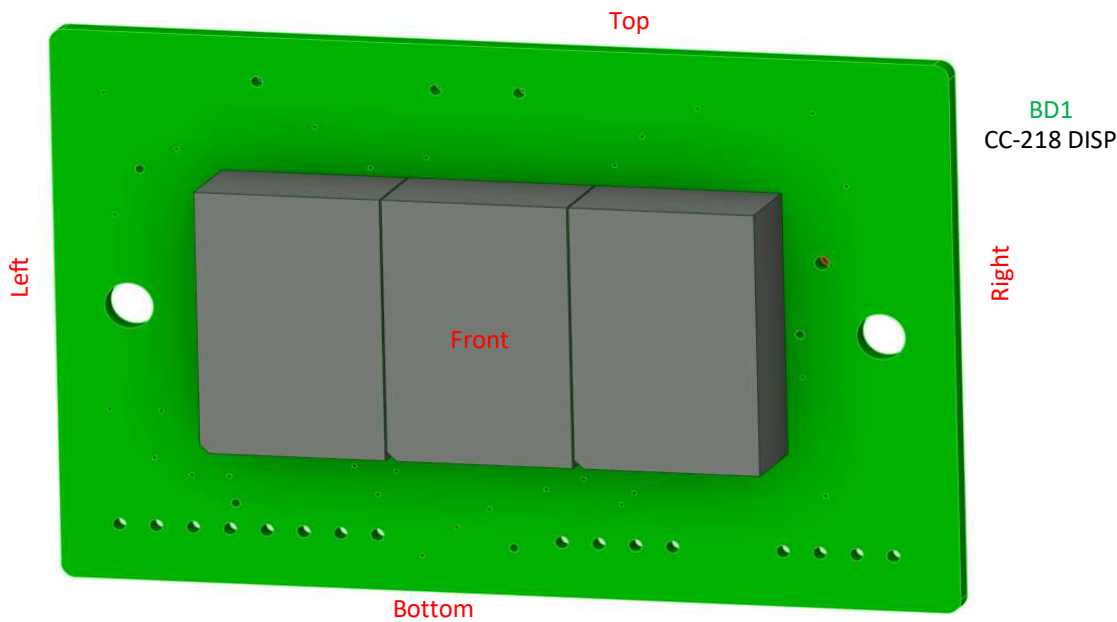
Modules

* Display Module

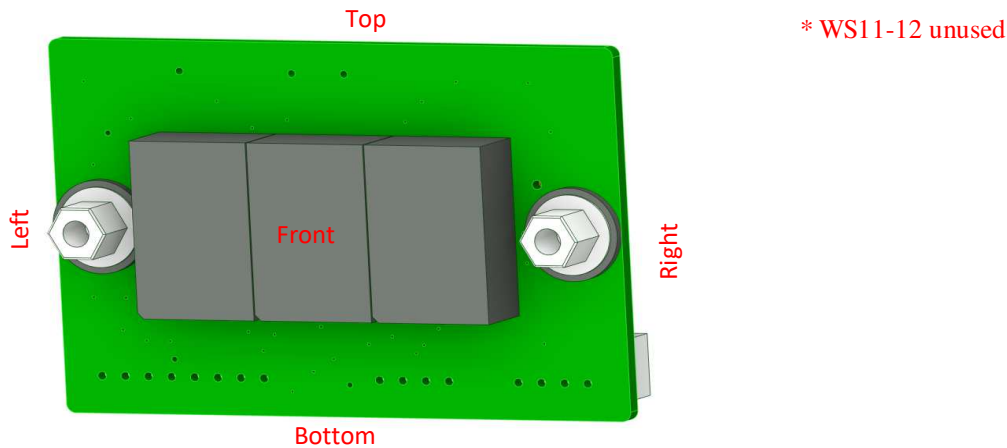
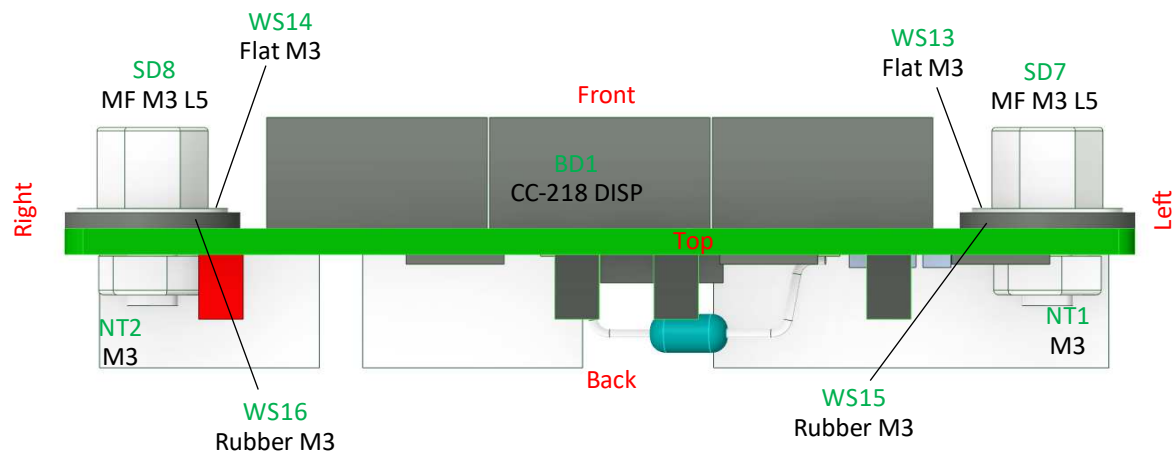
1. Assemble DISP Board (BD1: CC-218 DISP)

Mount devices on PCB1 following Assy Manual in CC-218_DISP_Design.xlsx.



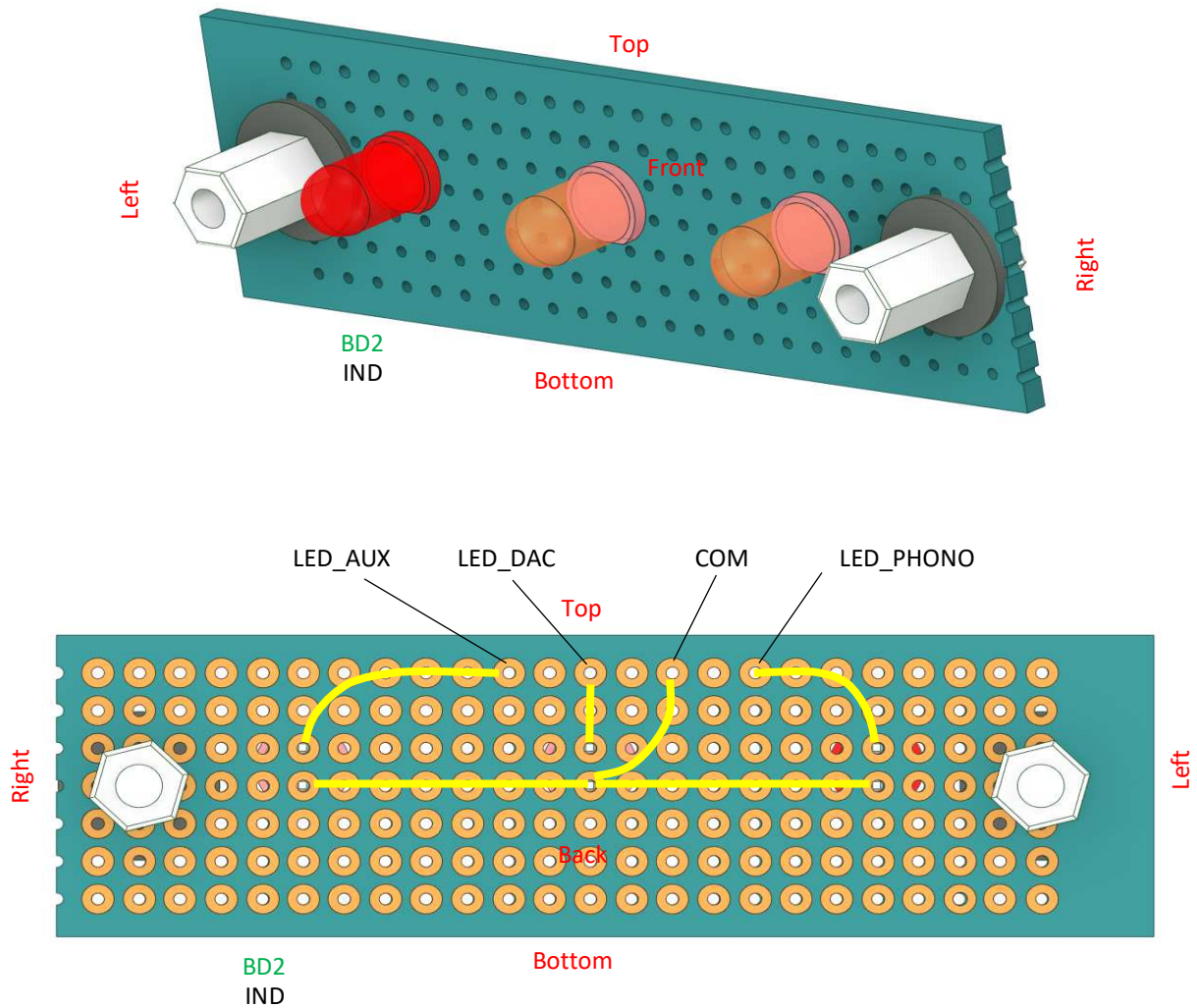


2. Assemble Display Module

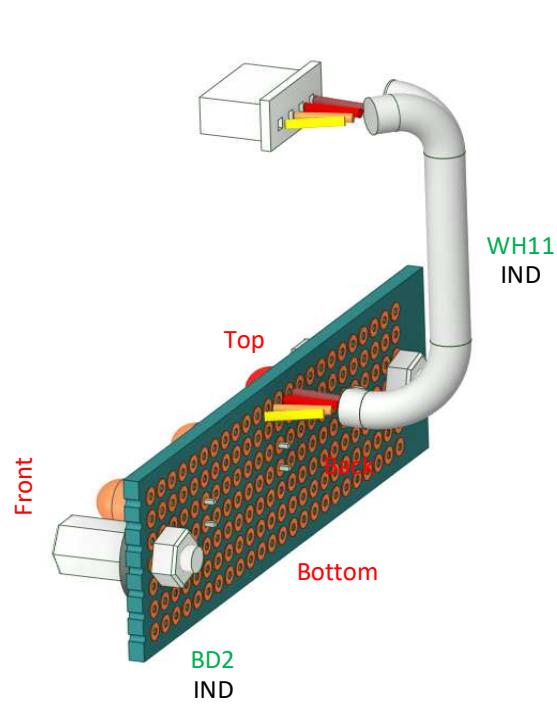


*** Indicator Module****1. Assemble IND Board (BD2: CC-218 IND)**

Mount devices on BD2 following Assy Manual in CC-218_IND_Design.xlsx.

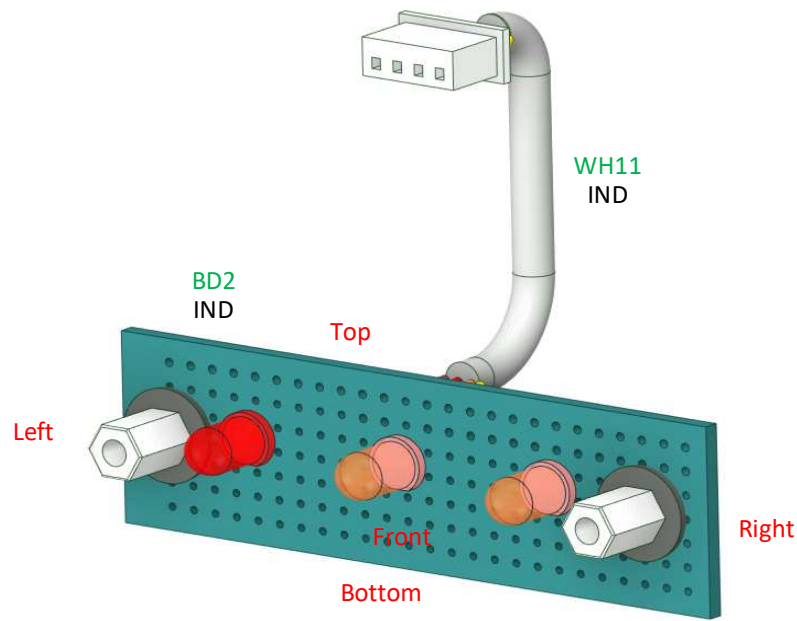


2. Solder WH11 IND.



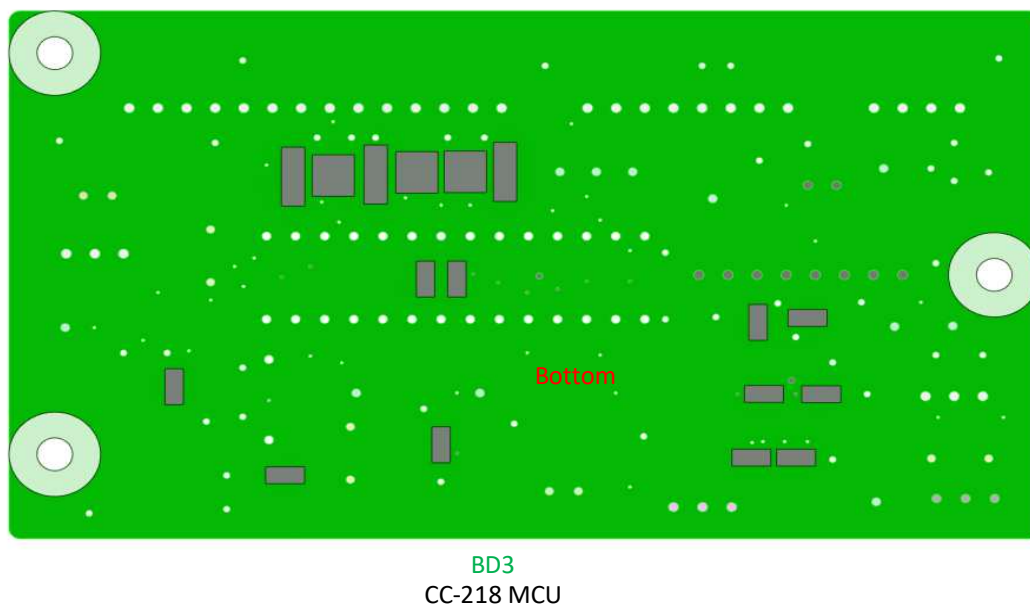
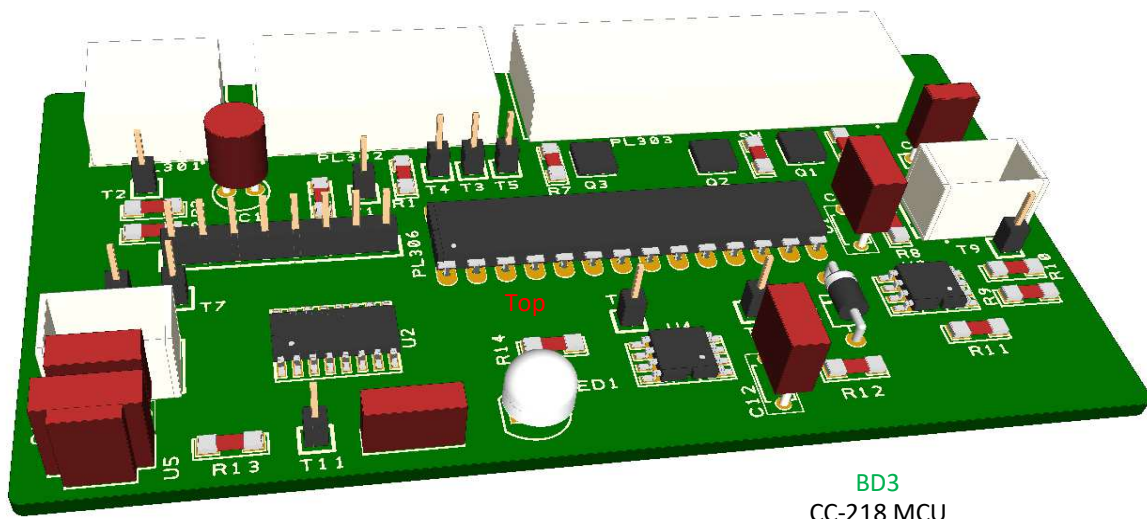
Wire assignment of WH11 IND

Wire #	Color	Signal
W57	Brown	LED_PHONO
W58	Red	LED_DAC
W59	Orange	LED_AUX
W60	Yellow	COM



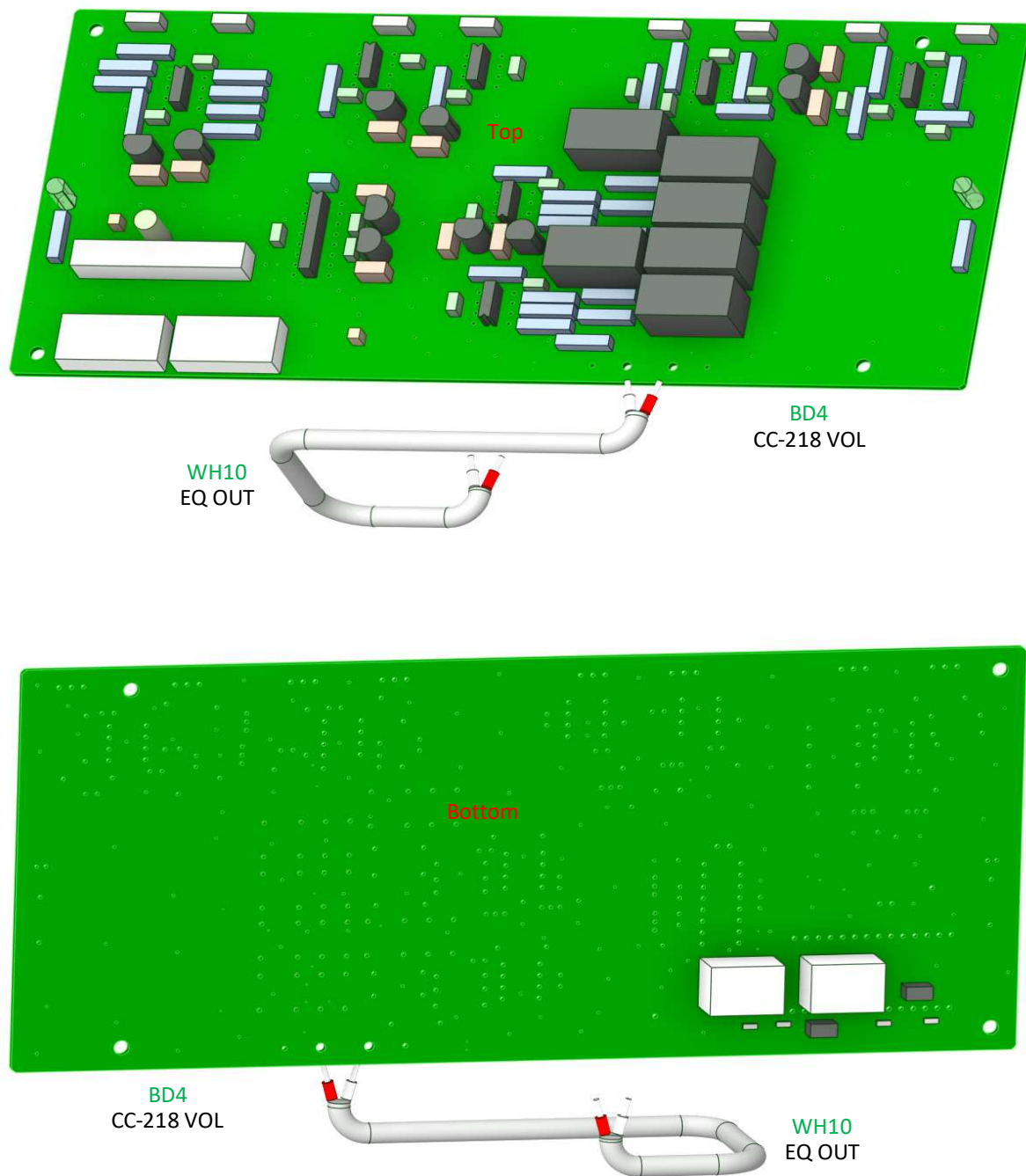
*** BD3: MCU Board**

1. Assemble MCU Board (BD3) following "CC-218_MCU_Design.xlsx".



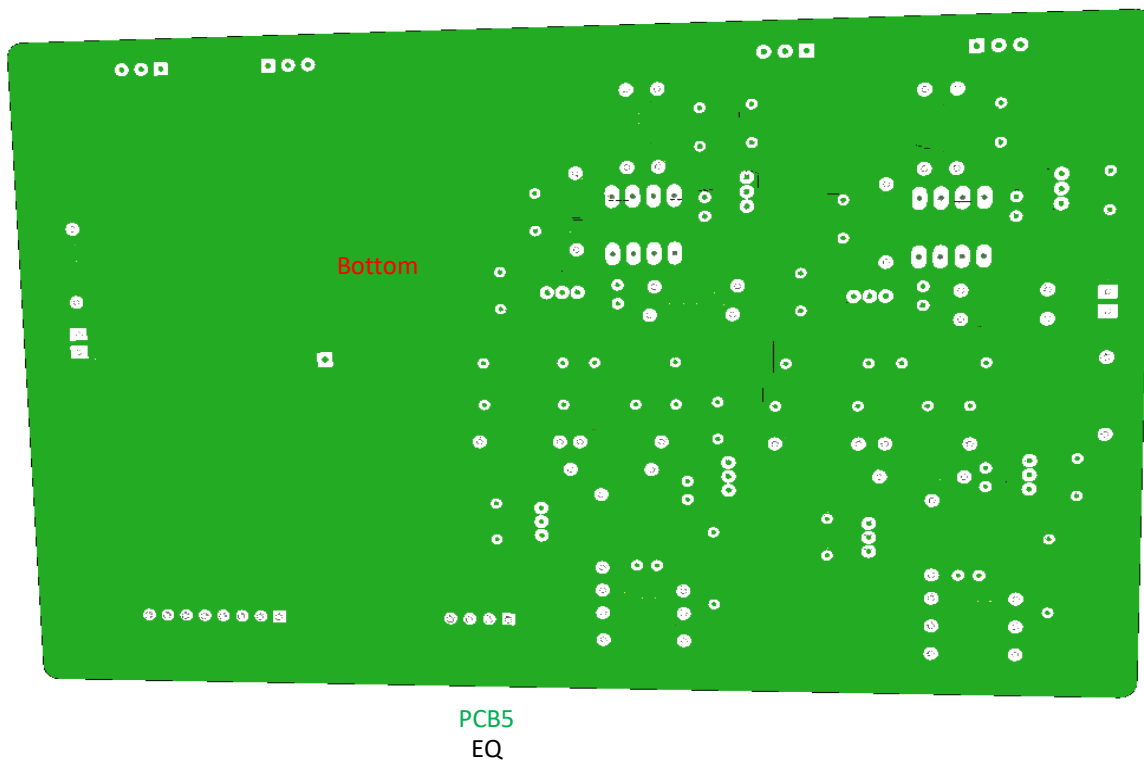
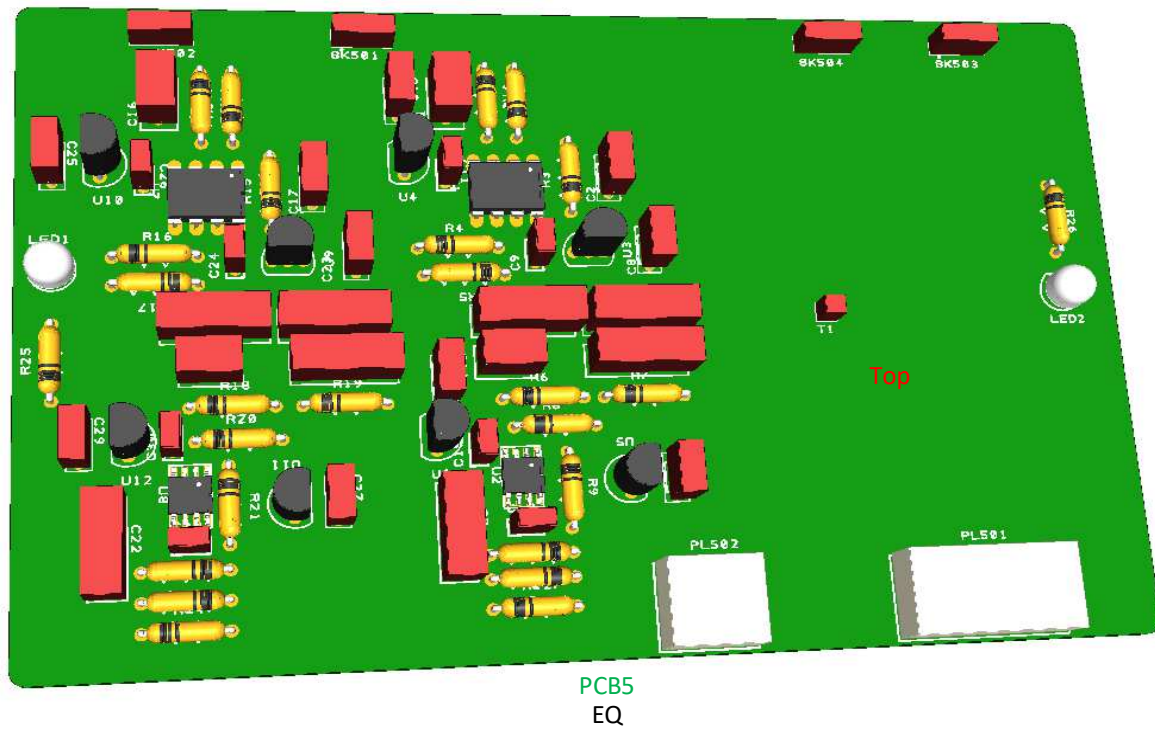
*** BD4: VOL Board**

Assemble VOL Board (BD4) following "CC-218_VOL_Design.xlsx".

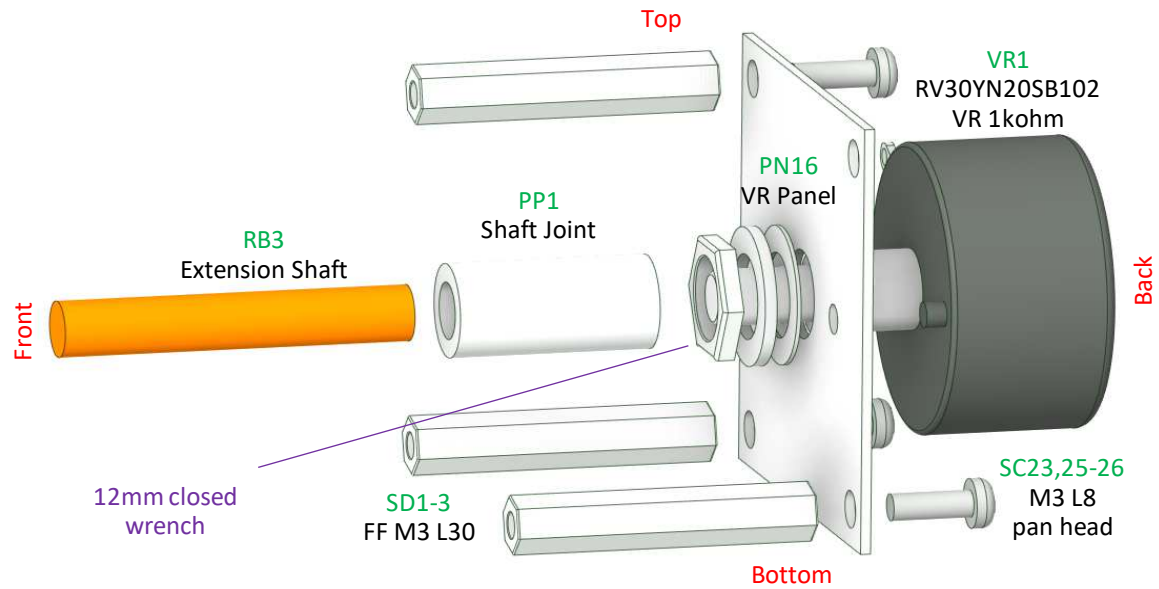


*** BD5: EQ Board**

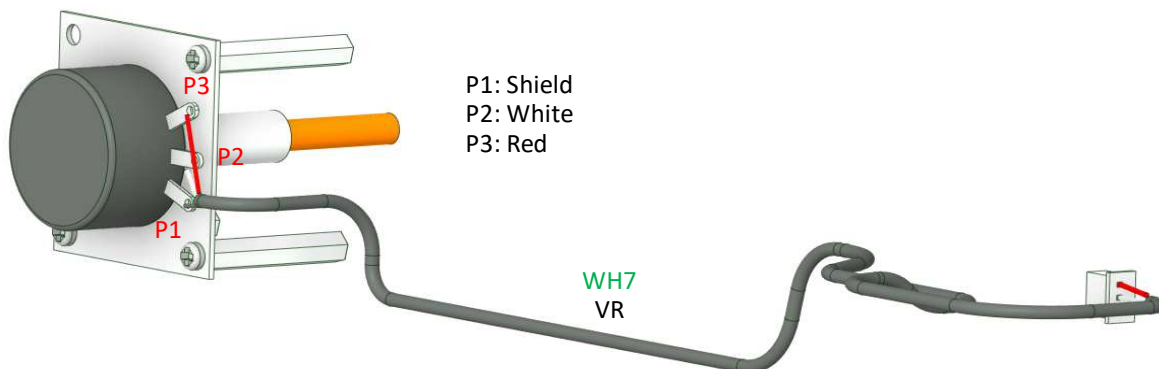
Assemble EQ Board (BD5) following "CC-218_EQ_Design.xlsx".



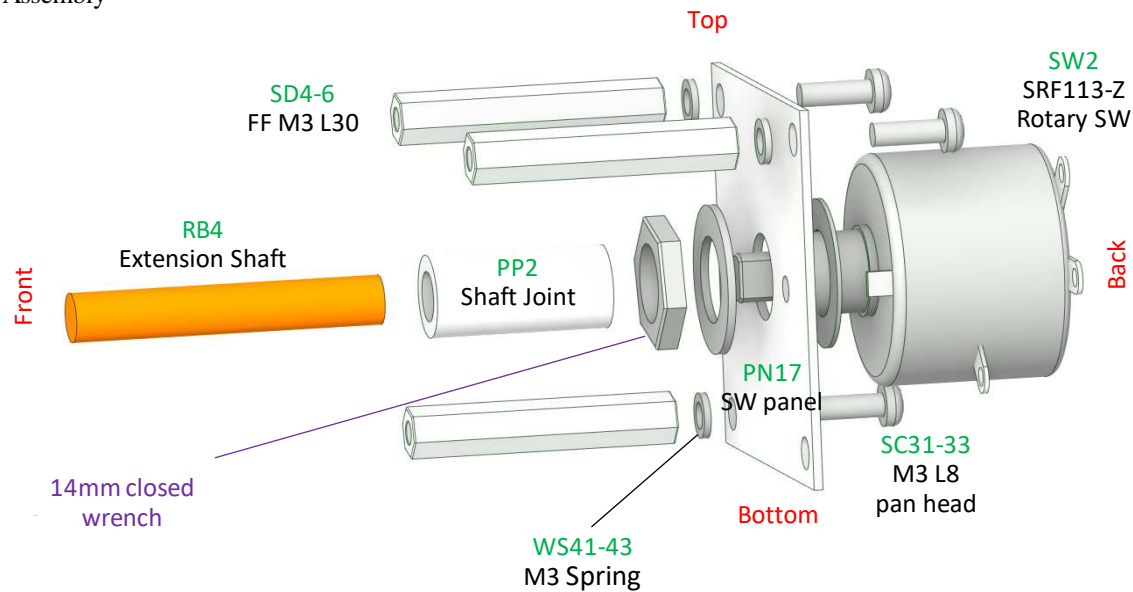
*** VR Module**
Assembly



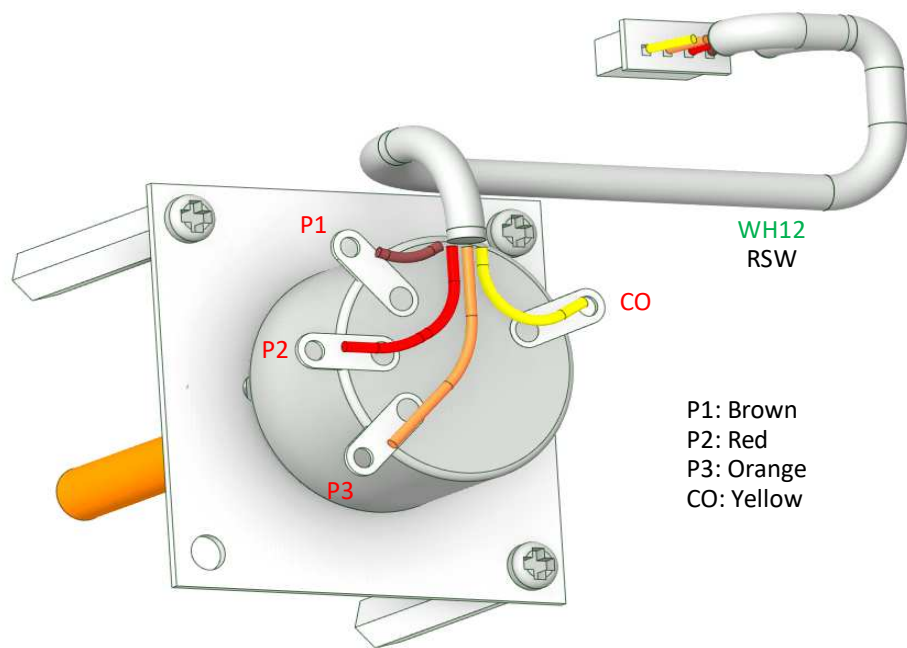
Solder WH7.



*** Rotary SW Module**
Assembly



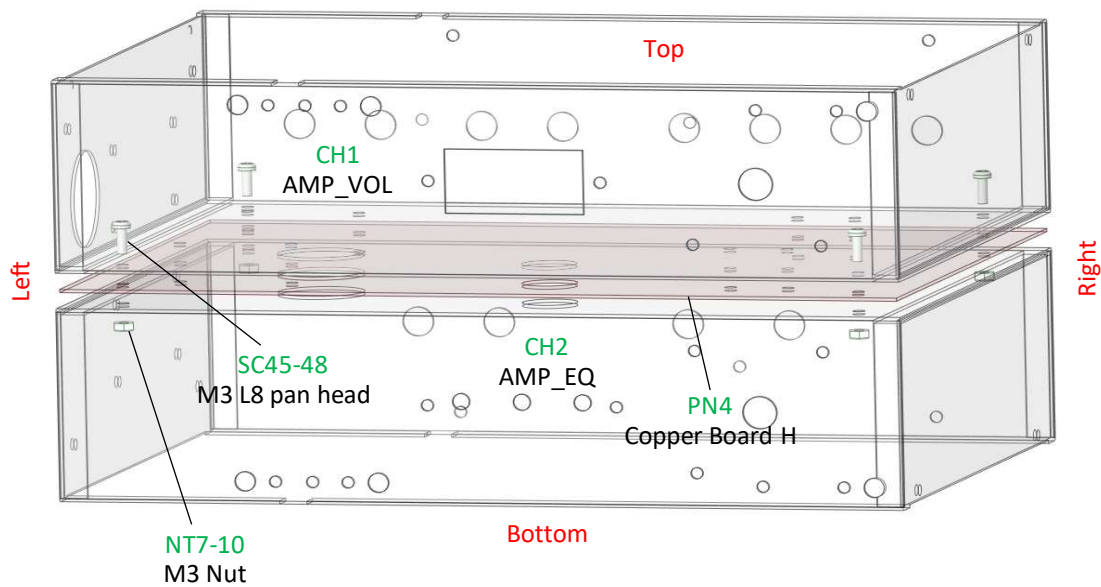
Solder WH12.



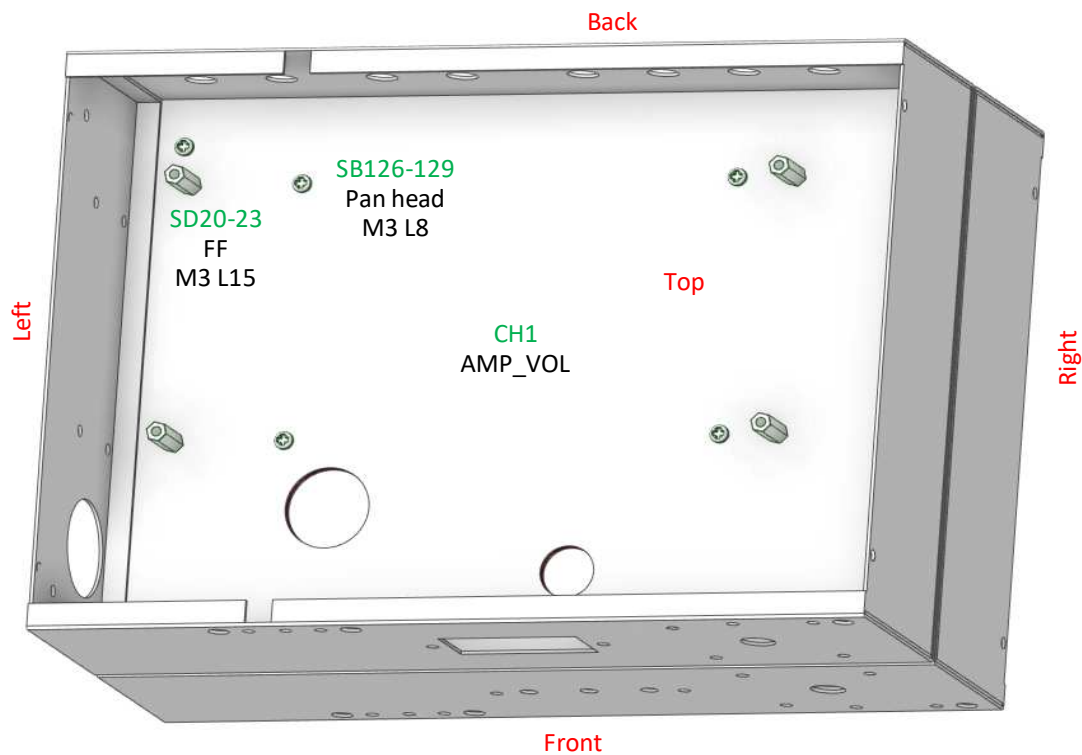
Chassis

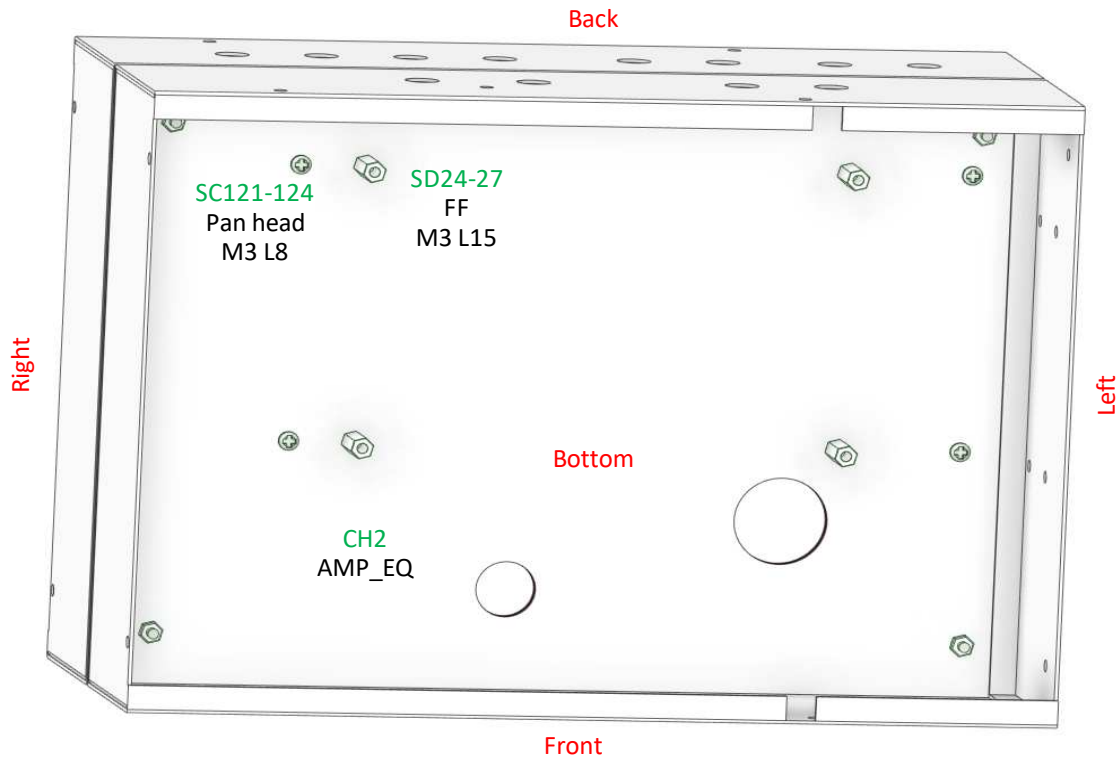
* Amp chassis

Before assembling, clean the surfaces of CH1-2 and PN4 w/ ethanol.



Apply ThreeBond 1401B to SC45-48 and NT7-10 to prevent the screws from loosening.

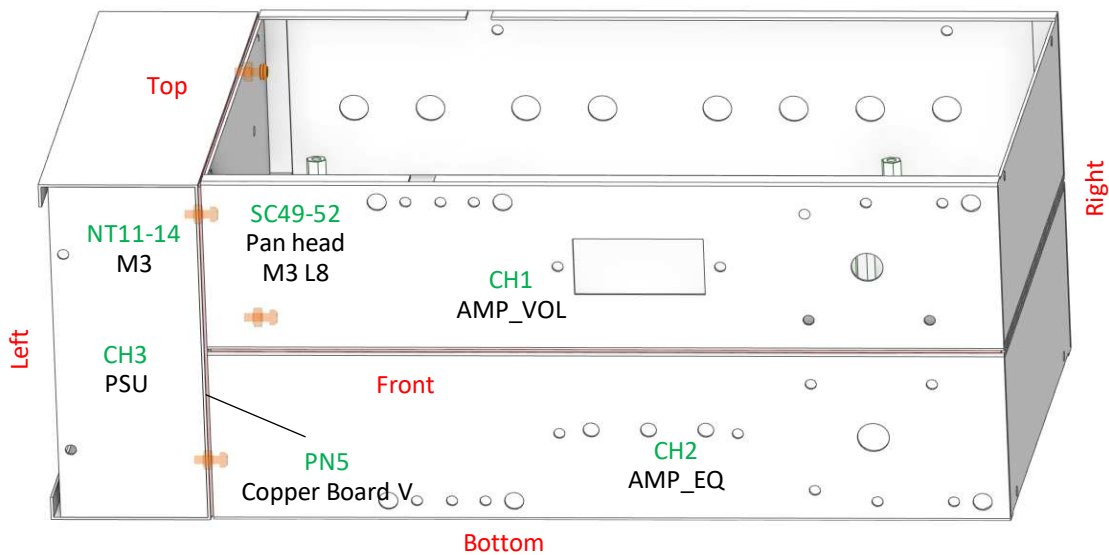




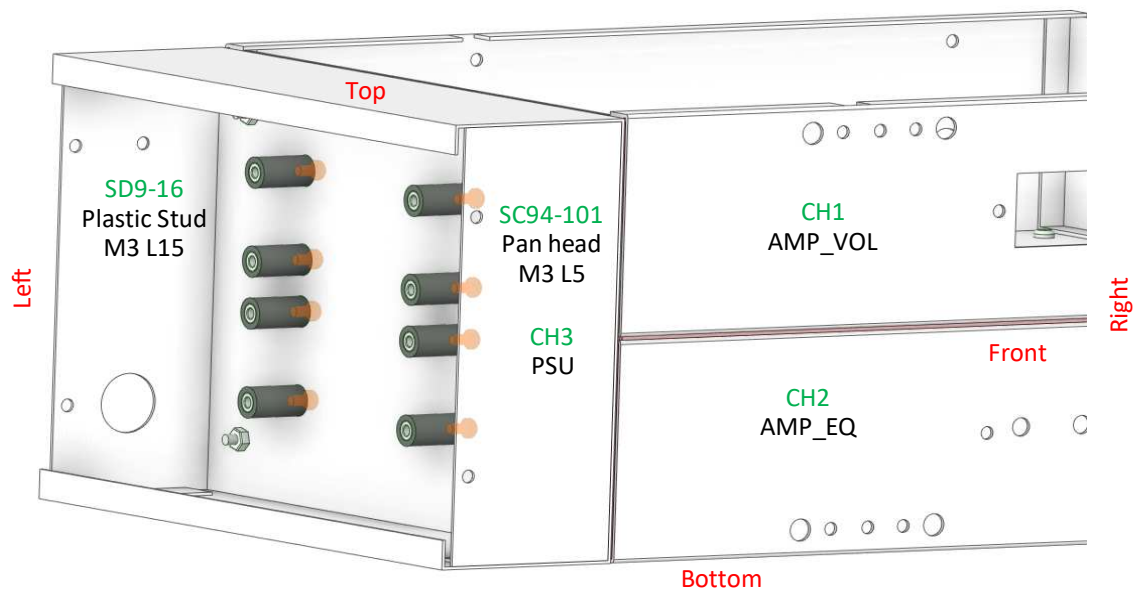
Apply ThreeBond 1401B to SD24-27,29-32 and SC121-124,126-129 to prevent the screws from loosening.

* PSU chassis

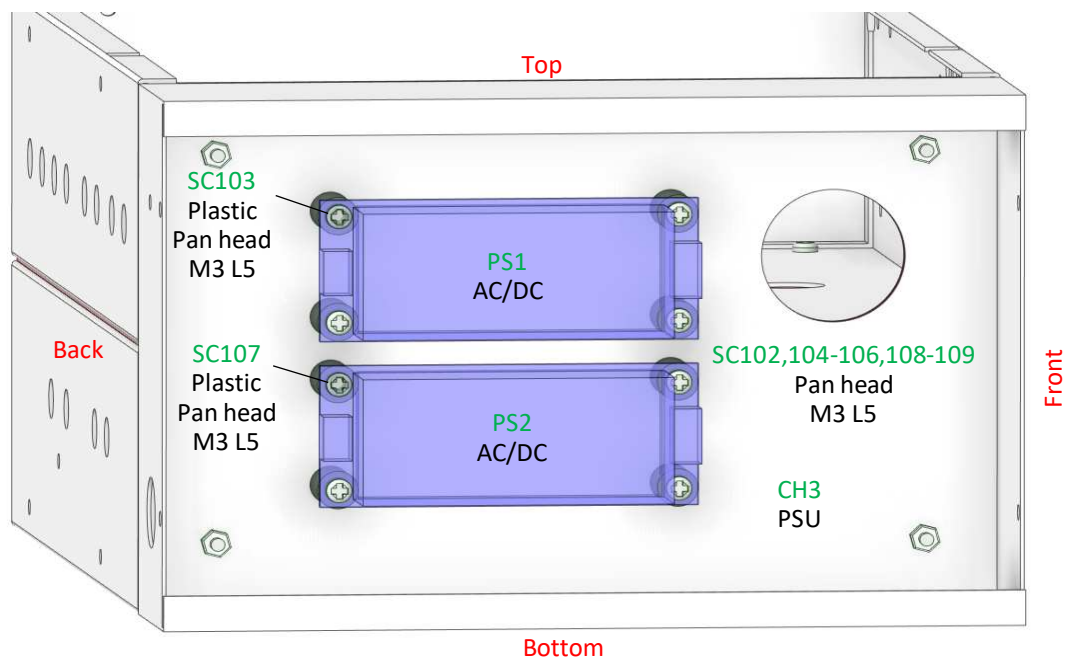
Before assembling, clean the surfaces of CH3 and PN5 w/ ethanol.



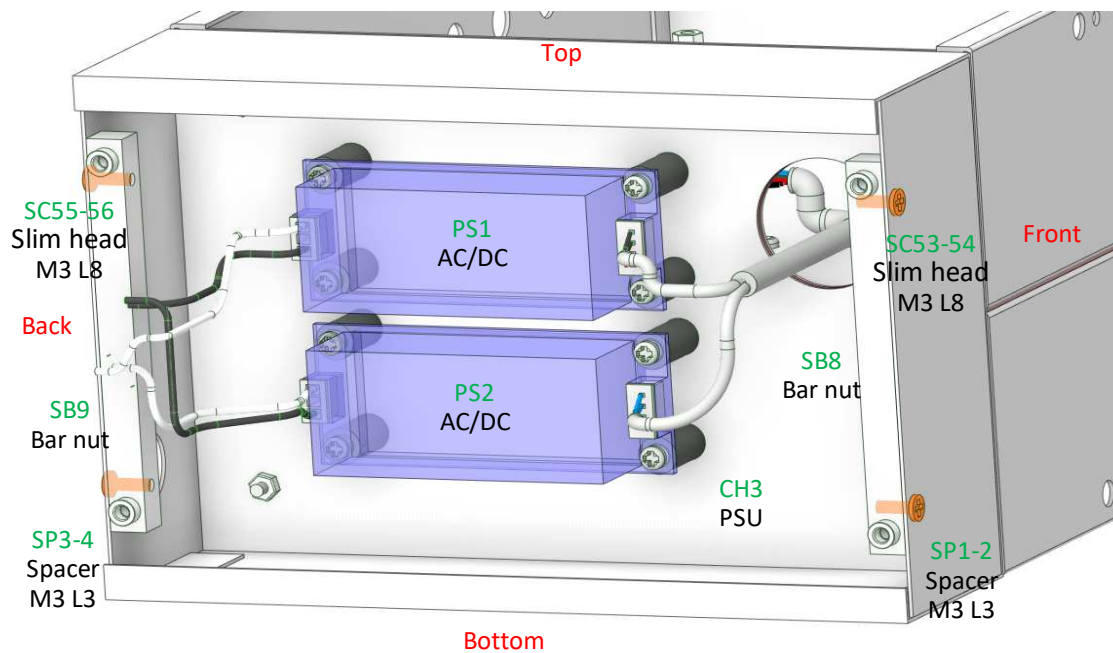
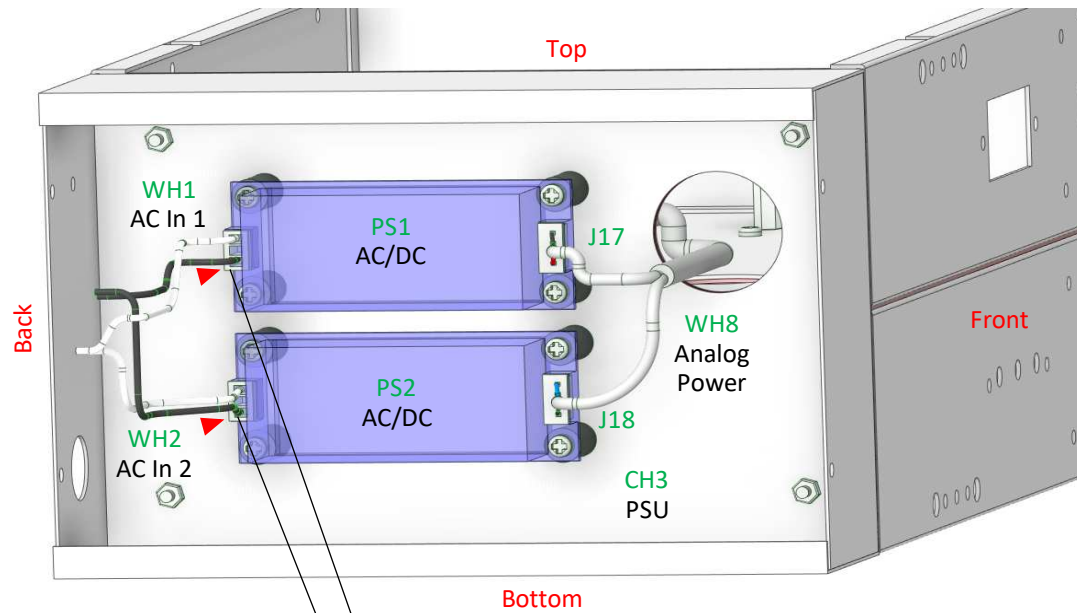
Apply ThreeBond 1401B to SC49-52 and NT11-14 to prevent the screws from loosening.



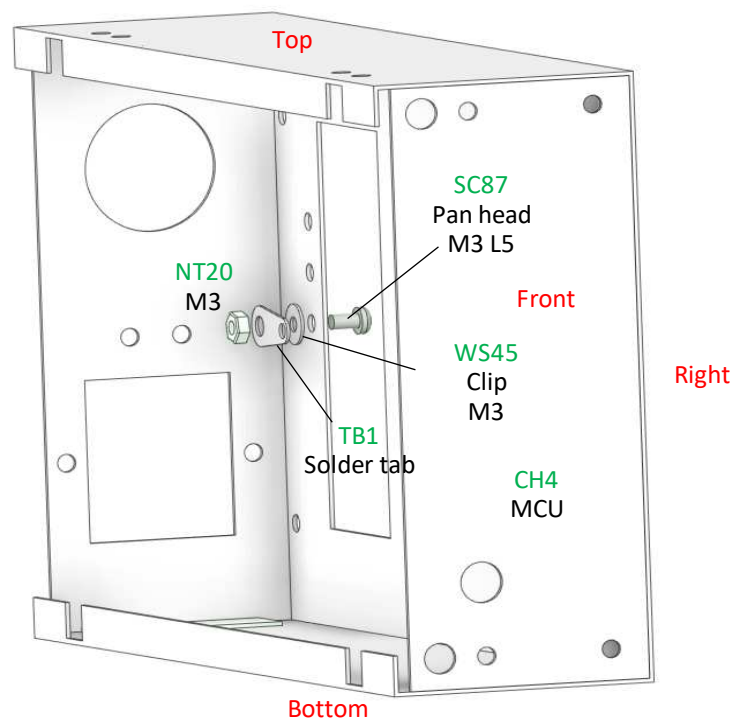
Apply ThreeBond 1401B to SD13-20 and SC94-101 to prevent the screws from loosening.



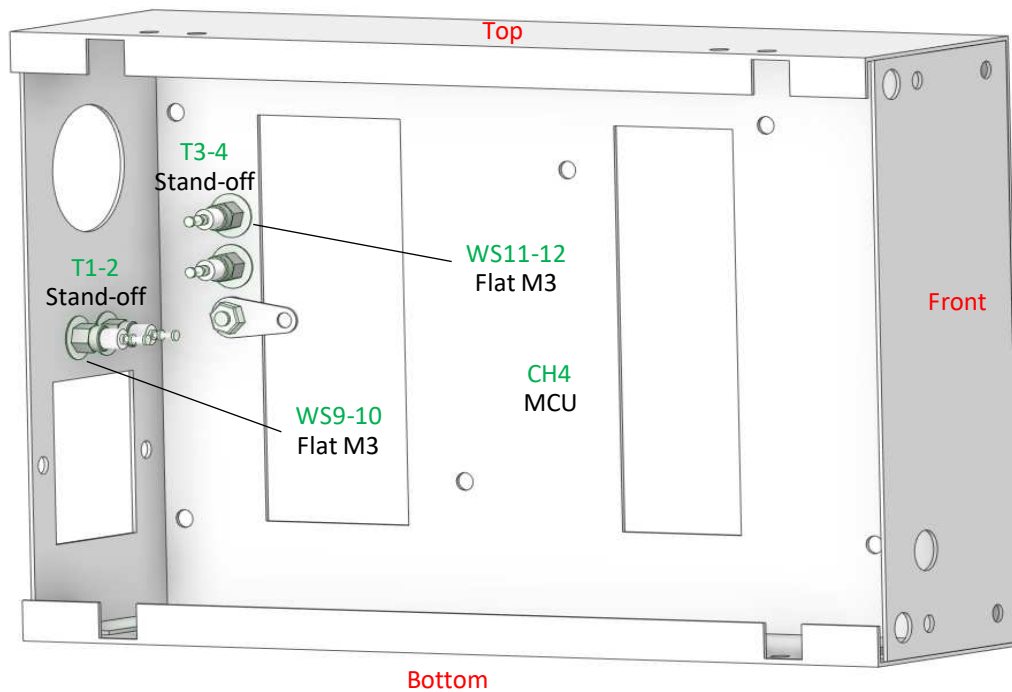
Turn VR1 of PS1-2 unclockwise to minimize the output voltage (23V).



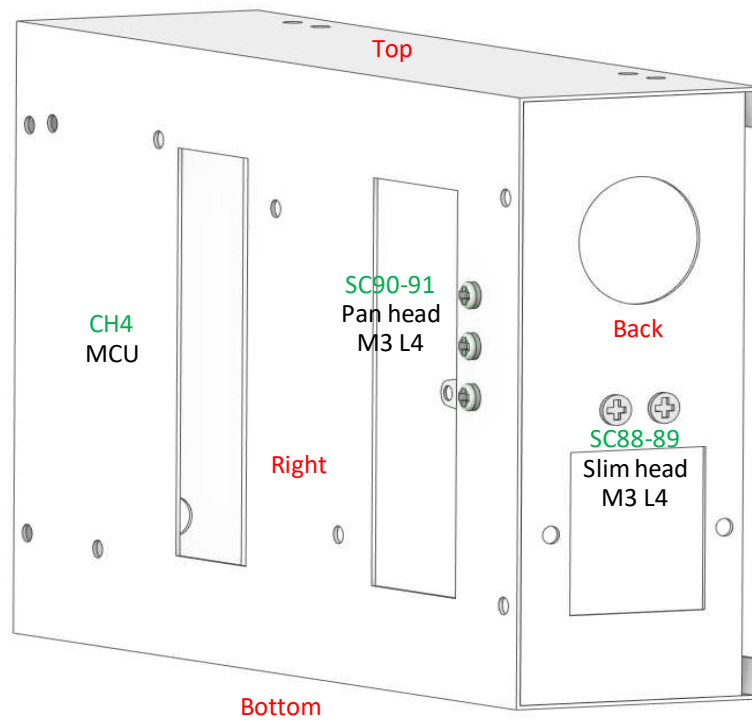
Fix SP1-2 to SB8 and SP3-4 to SB9 w/ ThreeBond 1401B.

*** MCU chassis**

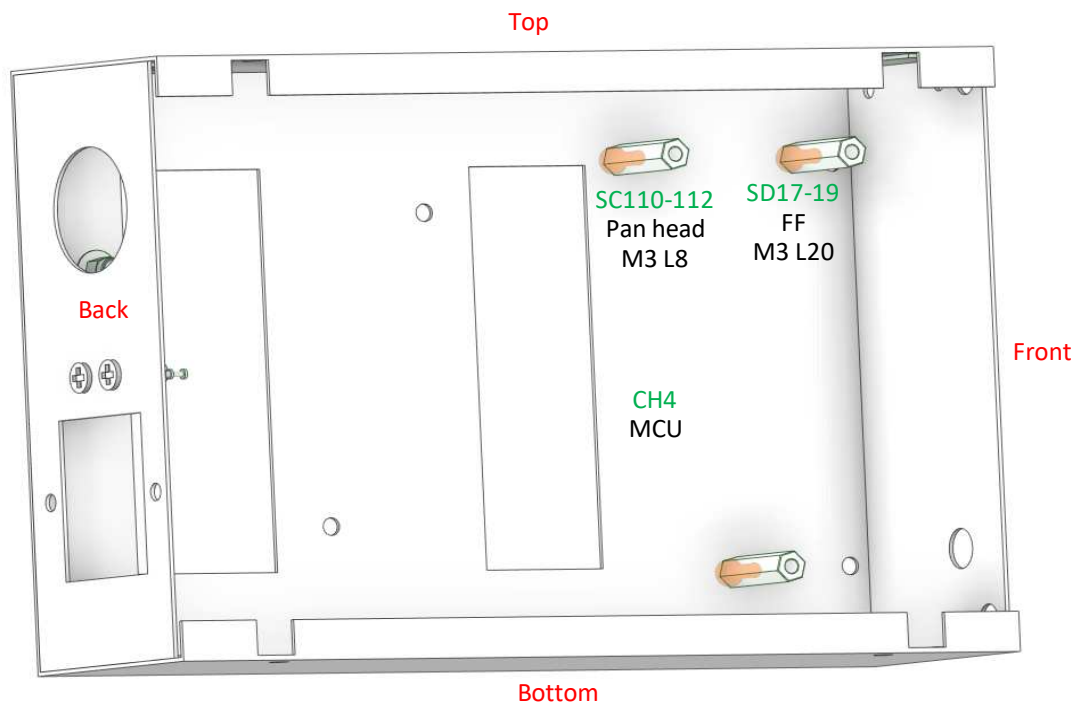
Apply ThreeBond 1401B to SC87 to prevent the screws from loosening.



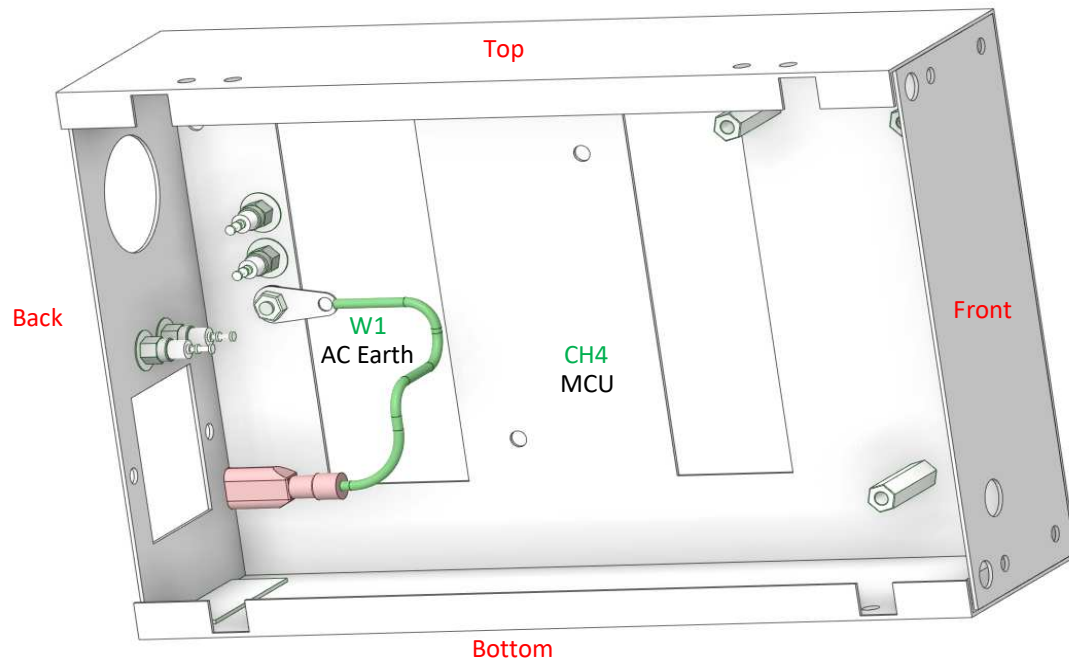
Apply ThreeBond 1401B to T1-4 and WS9-12 to prevent the screws from loosening.



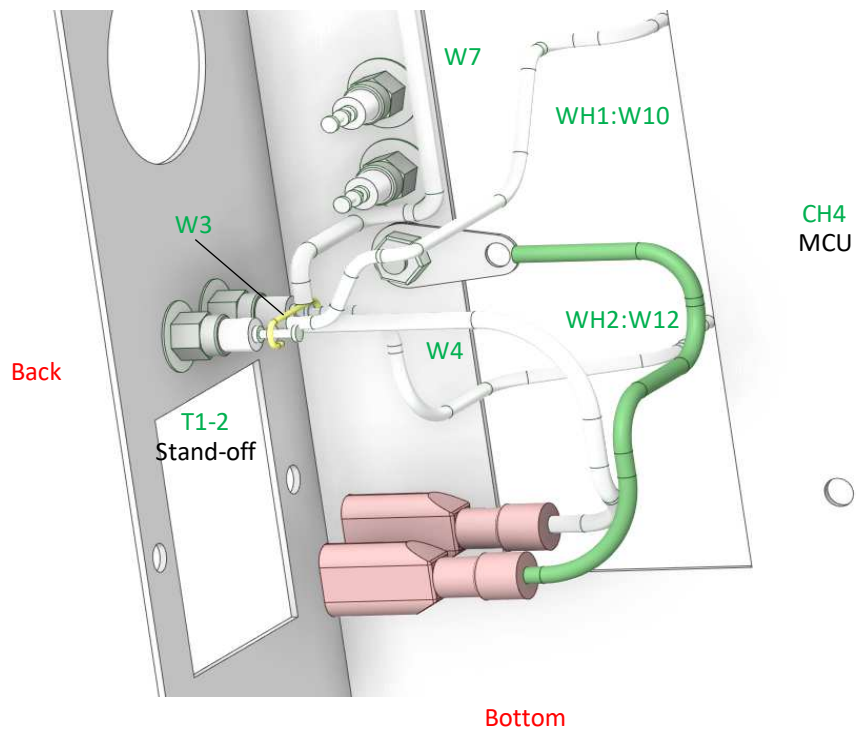
Apply ThreeBond 1401B to SC88-91 to prevent the screws from loosening.



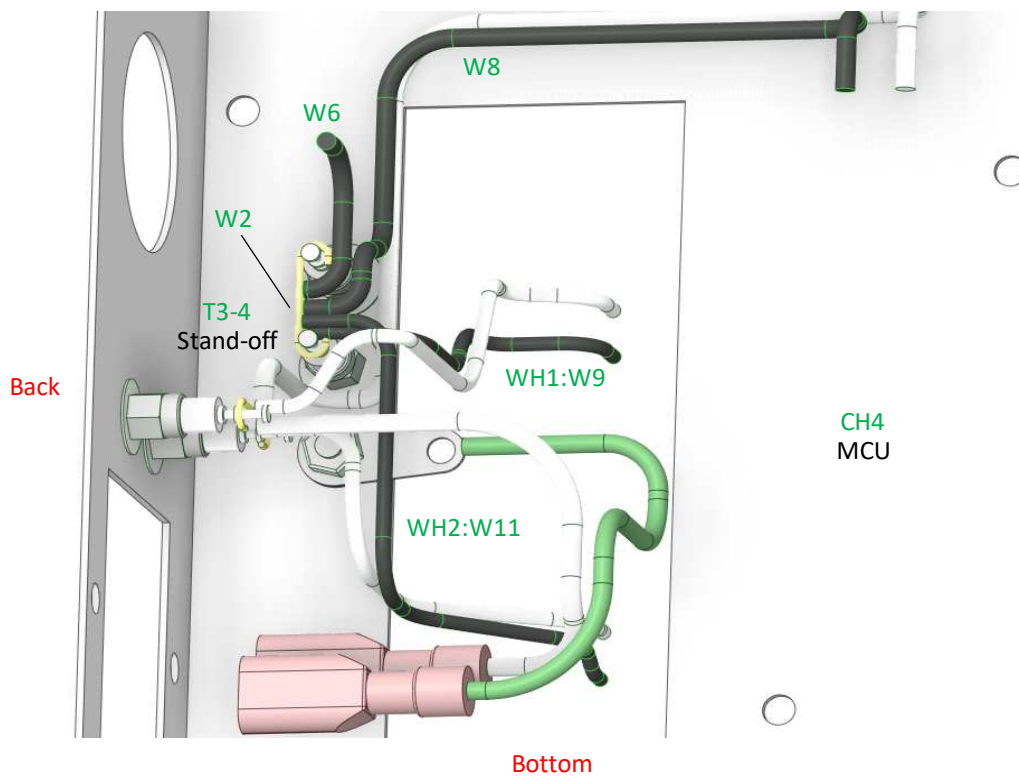
Apply ThreeBond 1401B to SC110-112 and SD21-23 to prevent the screws from loosening.



Solder W1 to TB1.

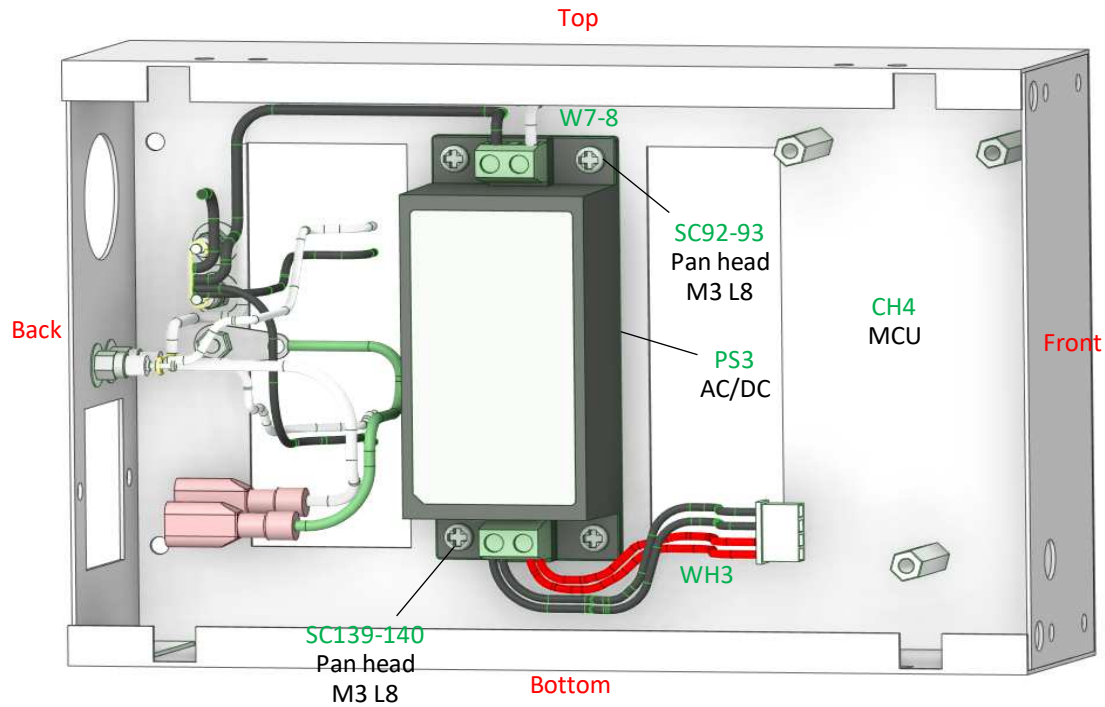


Solder W3-4, 7, 10, 12 to T1-2.



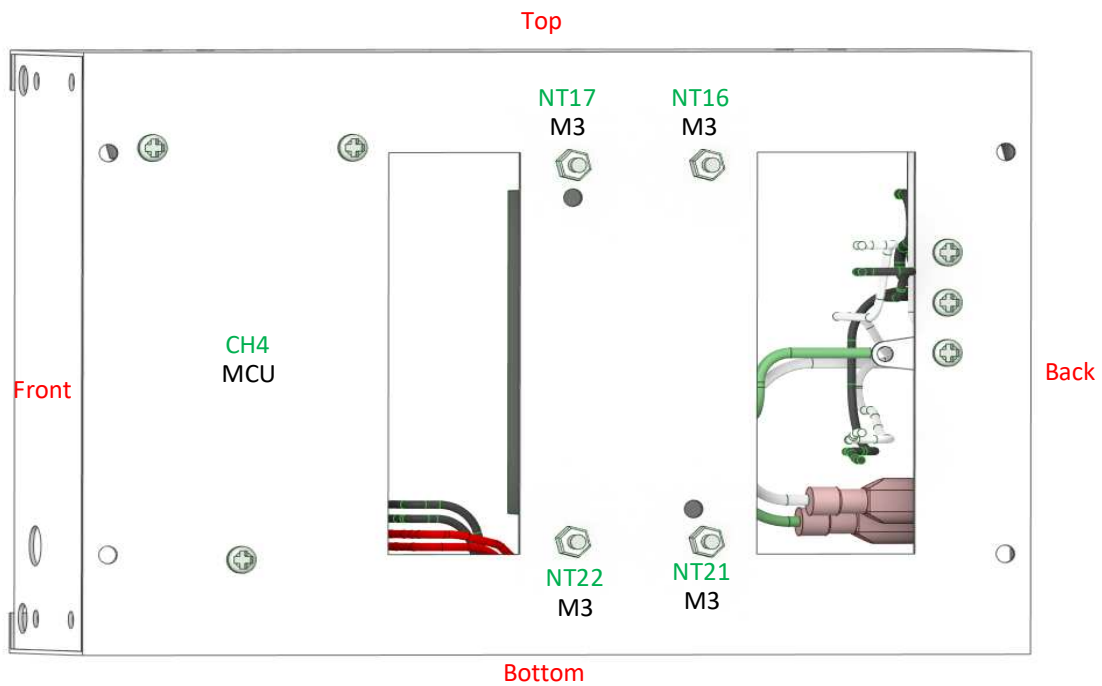
Solder W2, 6, 8, 9, 11 to T3-4.

[2024/09/01]

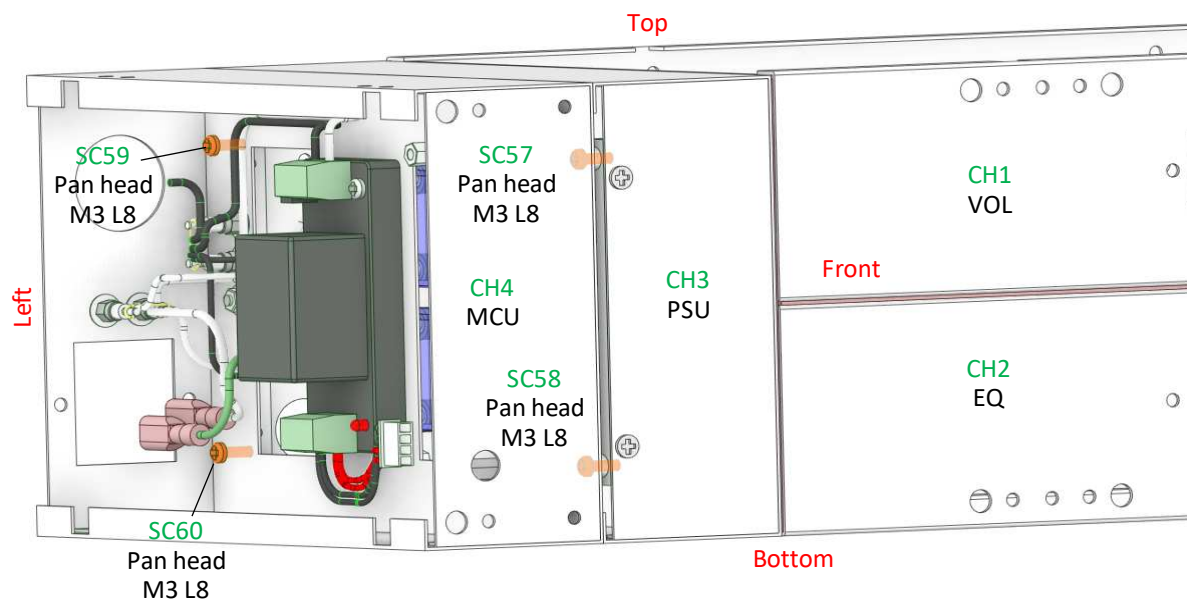


Connect W7-8 and WH3 to PS3.

PS3: ~~PSK 10D-5-T~~ ==> EML15US05-S



Apply ThreeBond 1401B to SC92-93 and NT16-17 to prevent the screws from loosening.

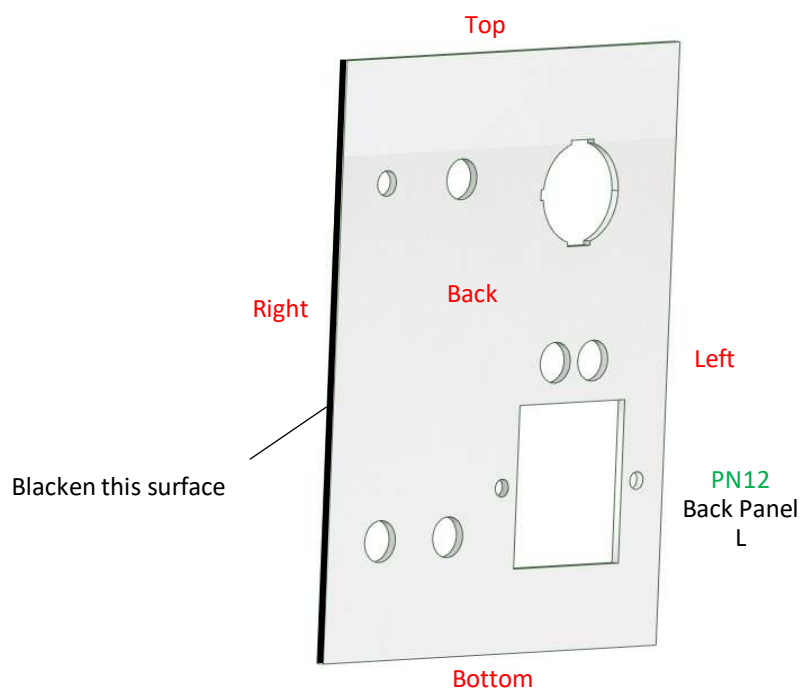


Apply ThreeBond 1401B to SC57-60 to prevent the screws from loosening.

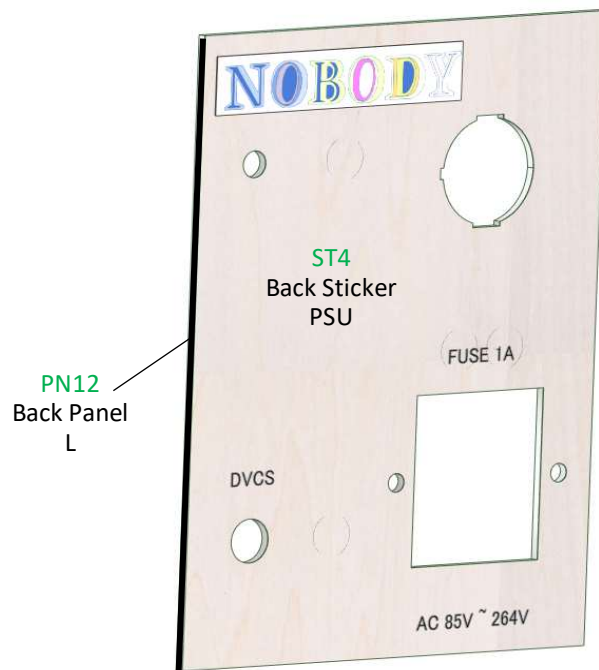
Though the image of PS3 is PSK-10D-5-T, it has been replaced by EML15US05-S.

* Back Panel L

Paint the right side of PN12 w/ black marker pen.



Affix ST4 onto PN12.



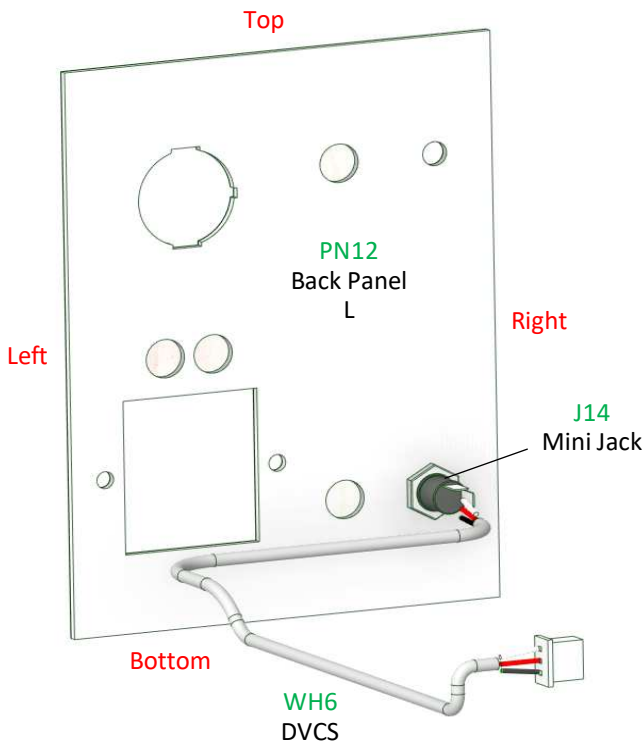
For the latest design of ST4,
see "Finish" manual.

Mount J14.



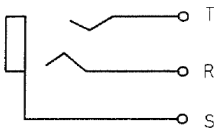
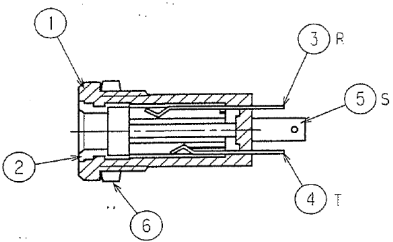
Apply ThreeBond 1401B to JC14 to prevent the screws from loosening.

Solder WH6 to J14

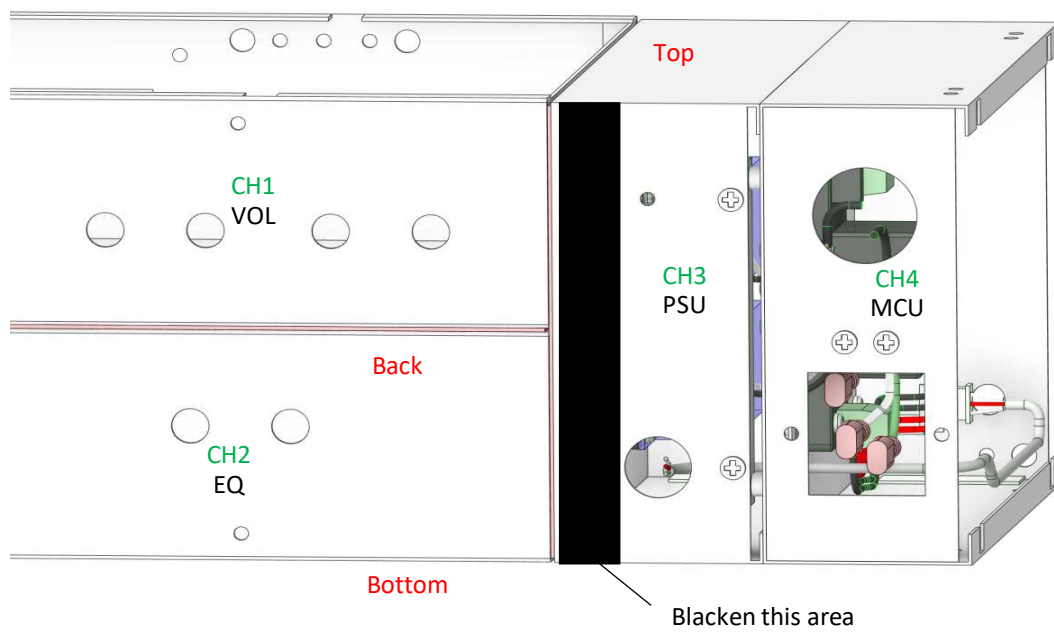


Wire assignment of WH6 DVCS

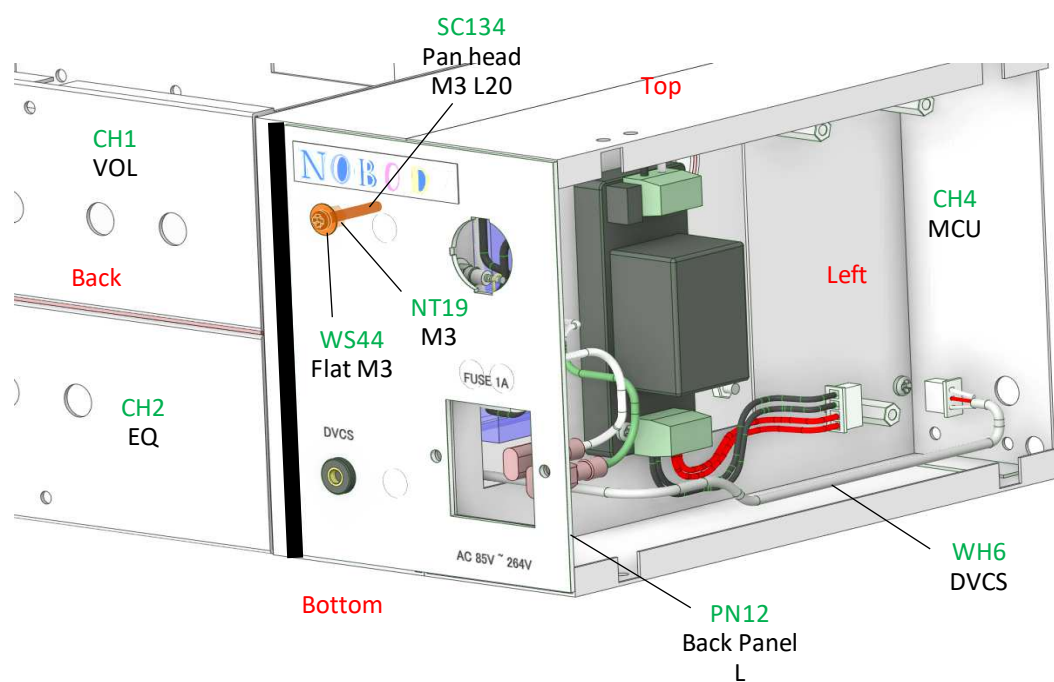
Color	Pin	Signal
(Shield)	S	DGND
Red	T	TX
White	R	RX



Paint the part of CH3 with black marker pen.

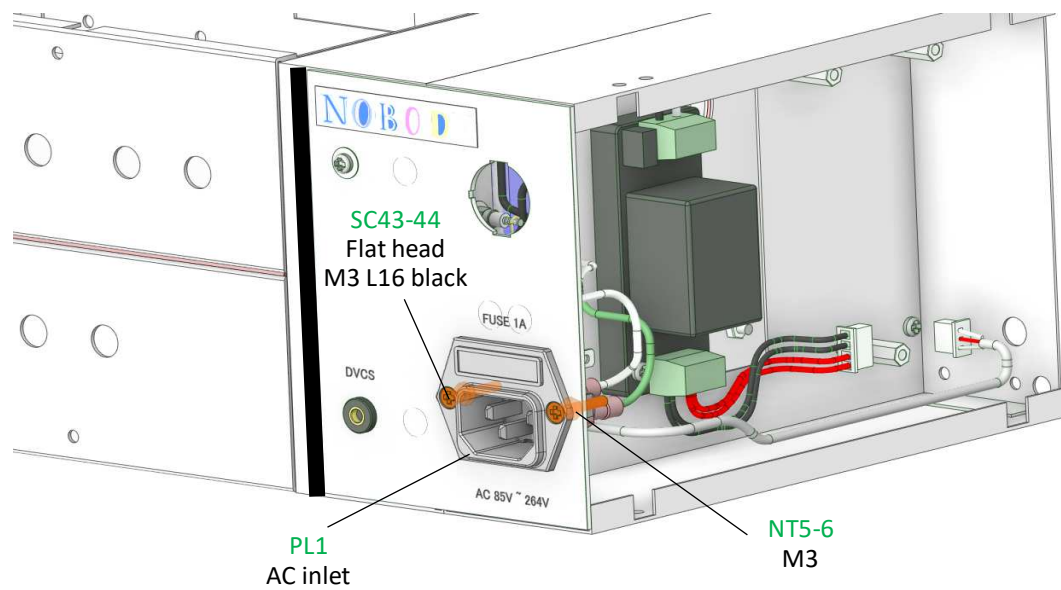


Fix PN12 to chassis.



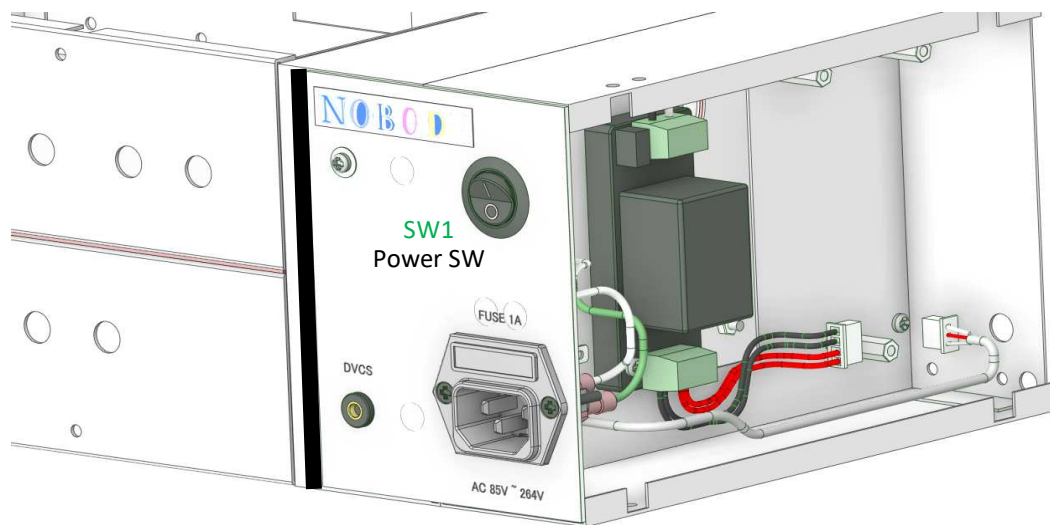
Though the image of PS3 is PSK-10D-5-T, it has been replaced by EML15US05-S.

Fix PL1 onto Back Panel L.



Though the image of PS3 is PSK-10D-5-T, it has been replaced by EML15US05-S.

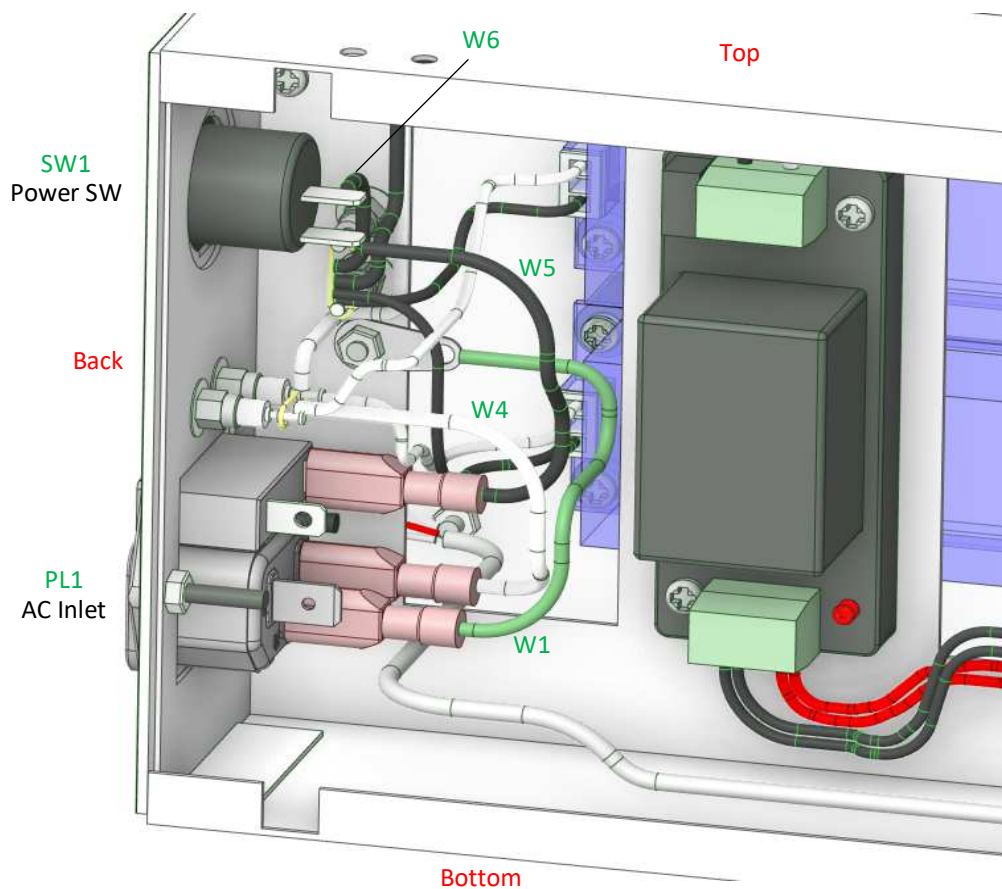
Snap in SW1 onto Back Panel L.



Though the image of PS3 is PSK-10D-5-T, it has been replaced by EML15US05-S.

Solder W5-6 to SW1.

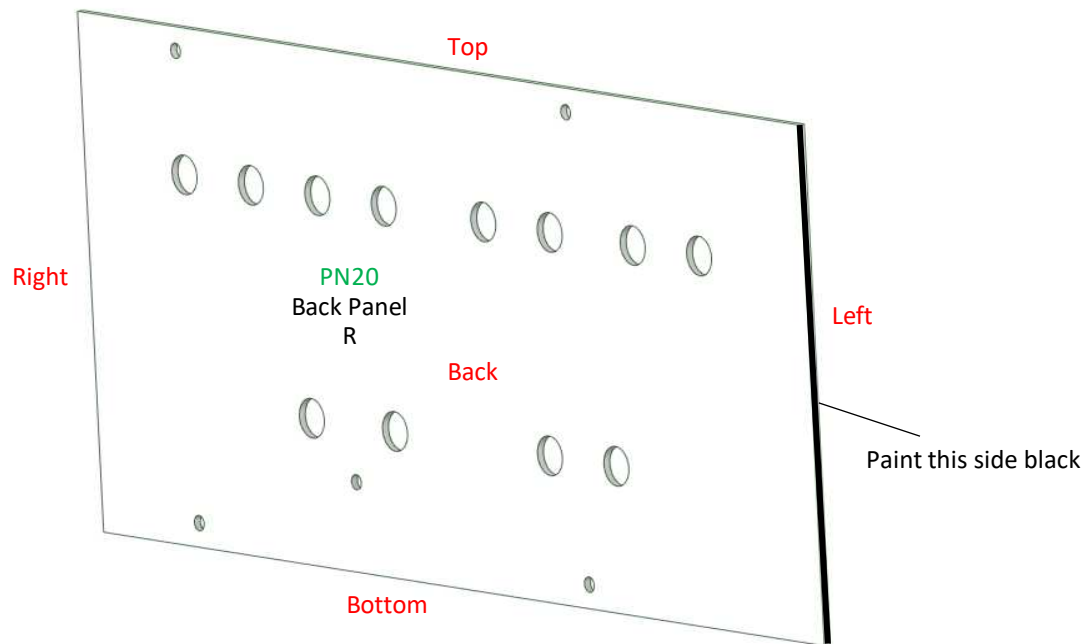
Connect W1,4-5 to PL1.



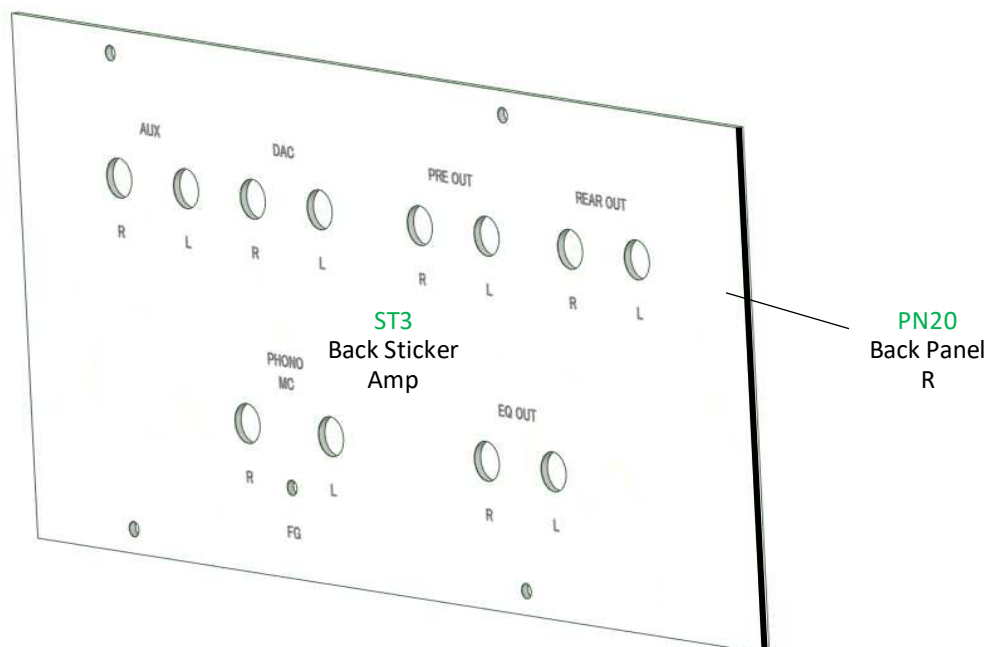
Though the image of PS3 is PSK-10D-5-T, it has been replaced by EML15US05-S.

*** Back Panel R**

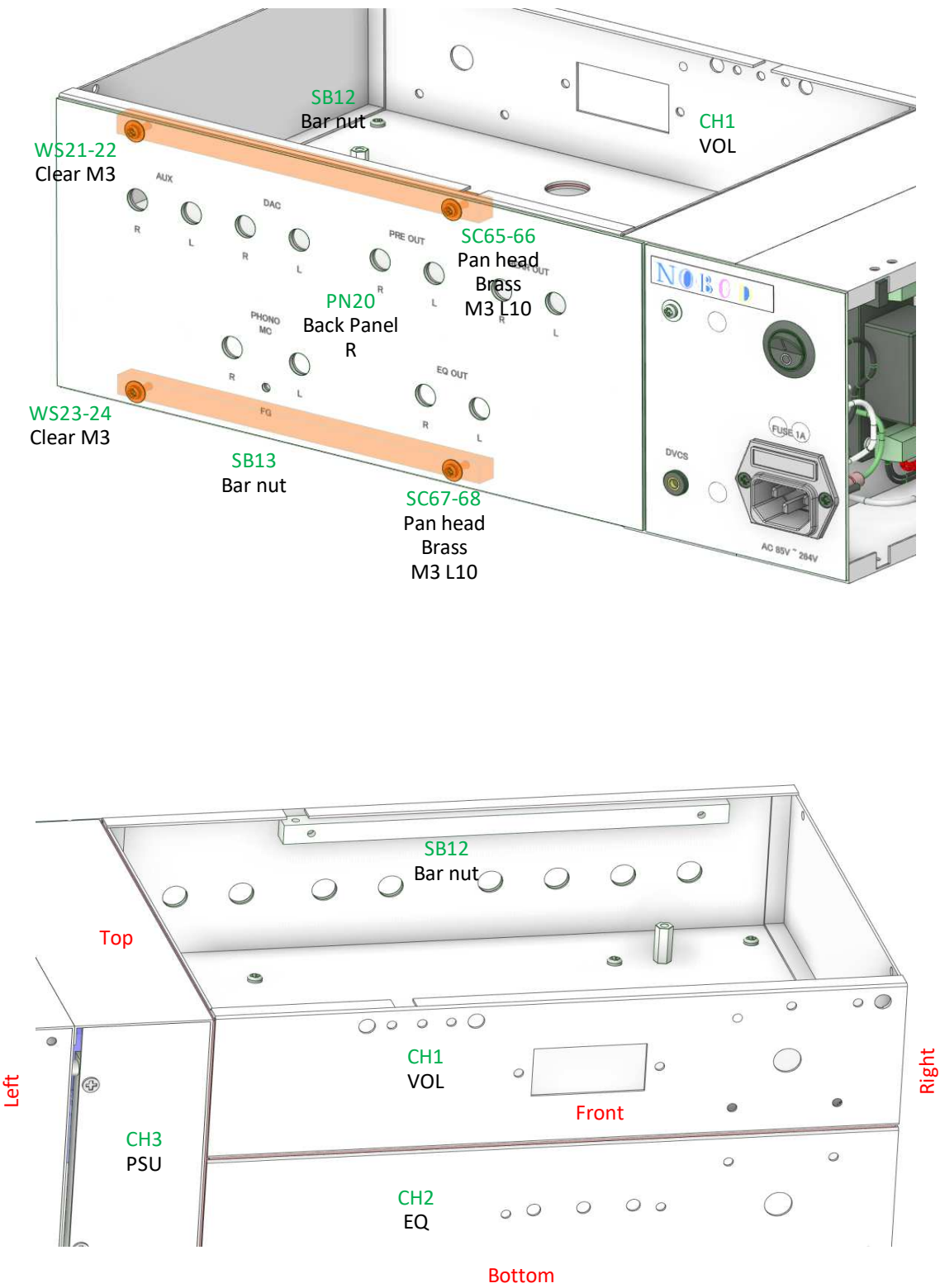
Paint the right side of PN20 with black marker pen.



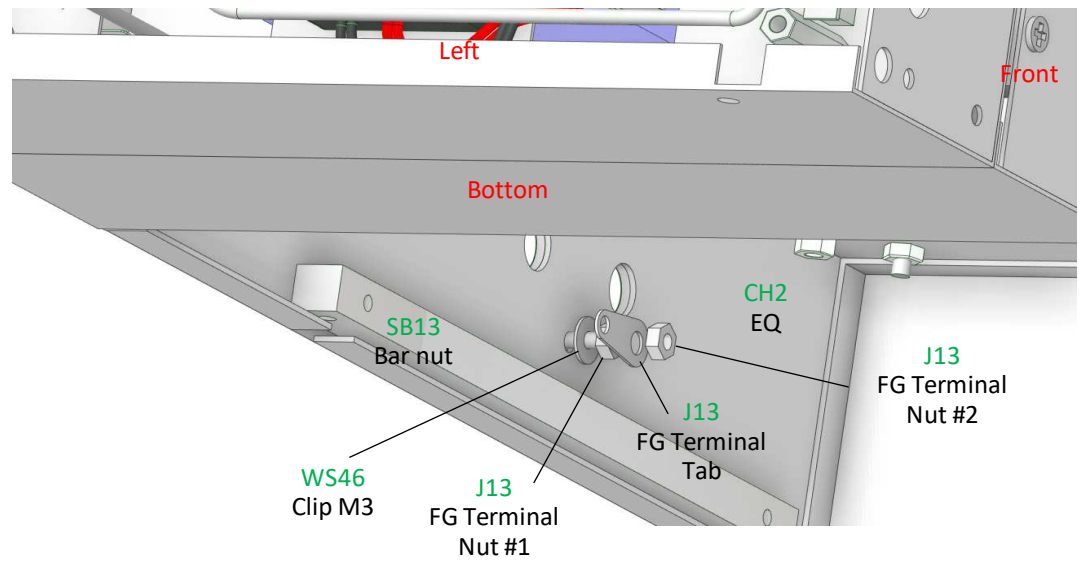
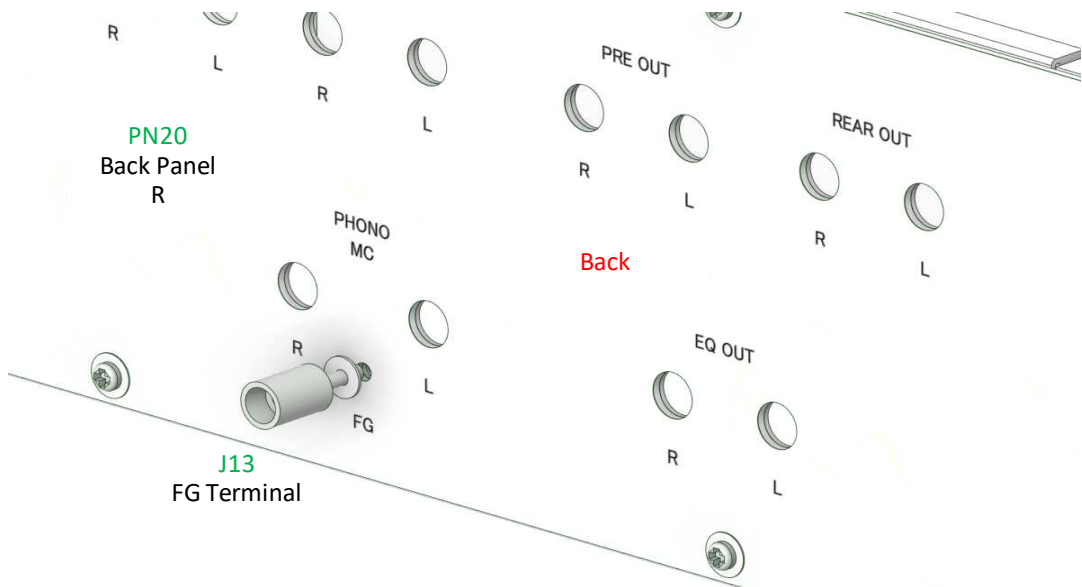
Affix ST3 on PN20.



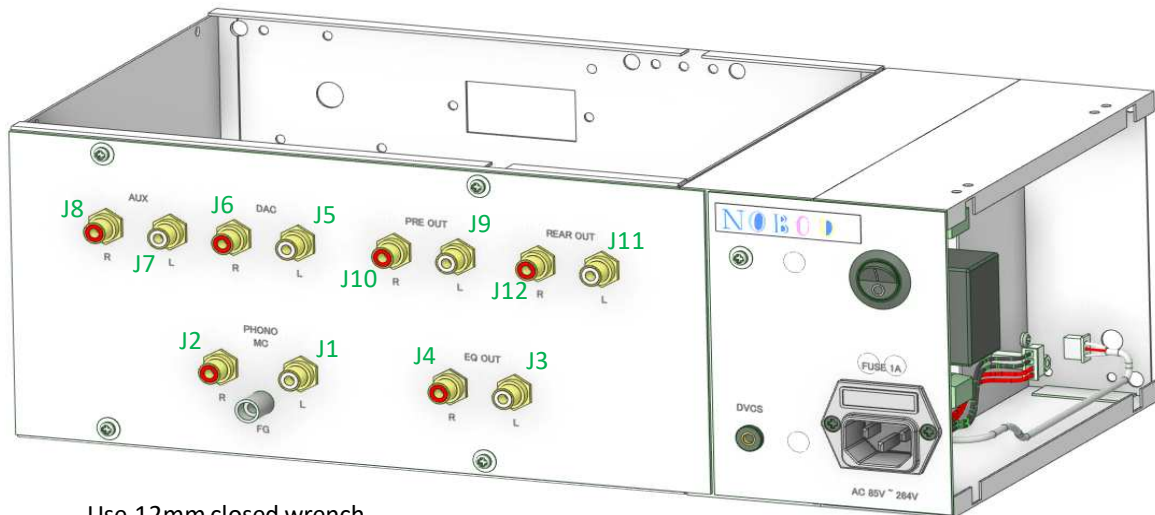
Fix Back Panel R onto chassis.



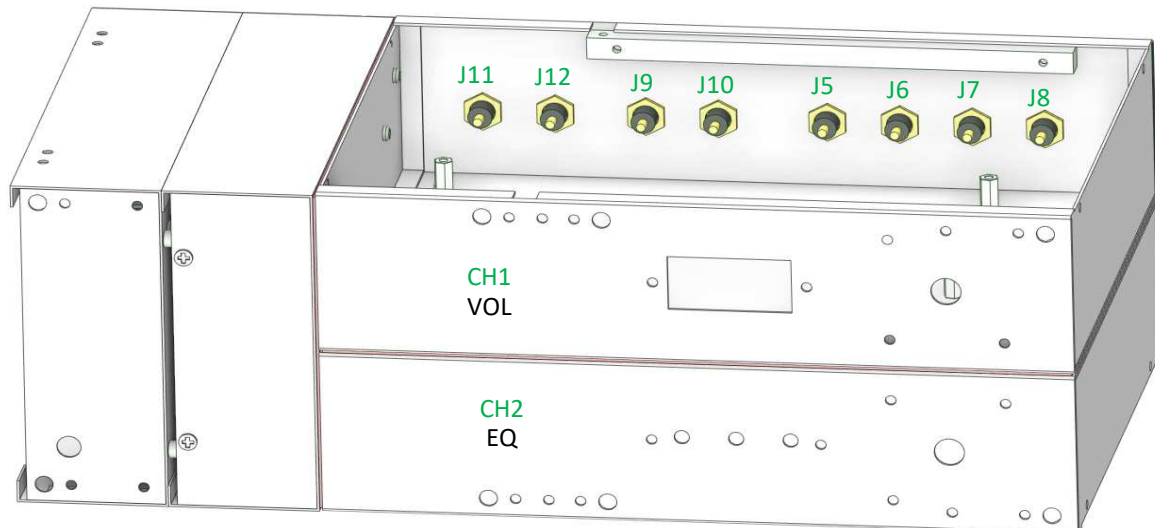
Fix J13 (FG terminal).



Mount J1-12 (RCA jack).



Use 12mm closed wrench





Solder W65-72, R1-4 to RCA jacks.



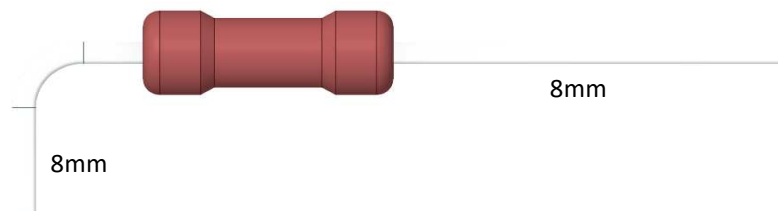
W65,67,69,71,73-76: L=28mm

W66,68,70,72: L=21mm

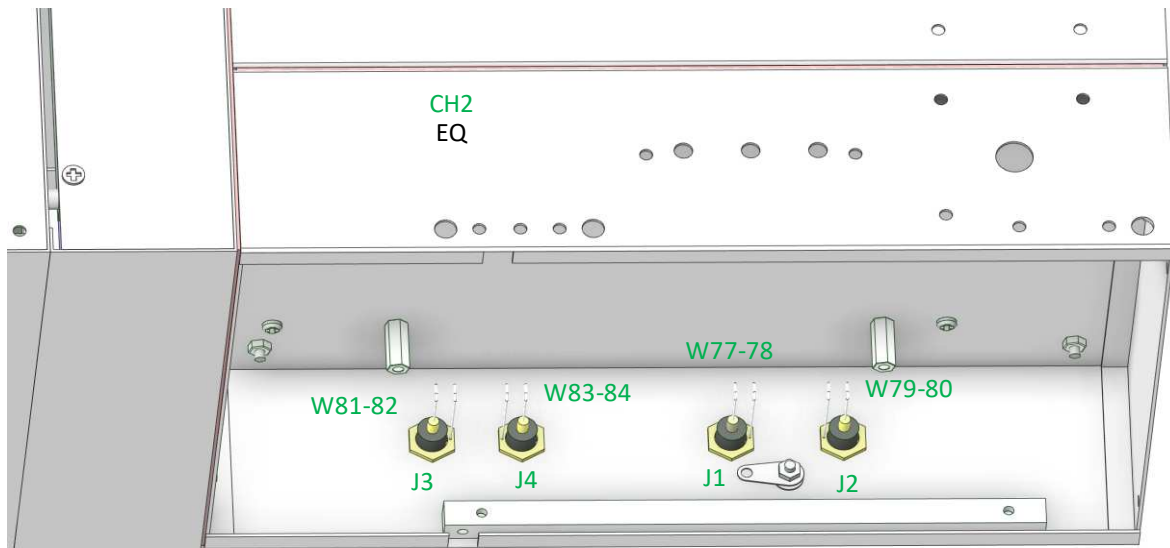
Solder iron tip: PX-2RT-4C

Target temp: 450deg-C

R1-4: metal film 1/4W 47 ohm

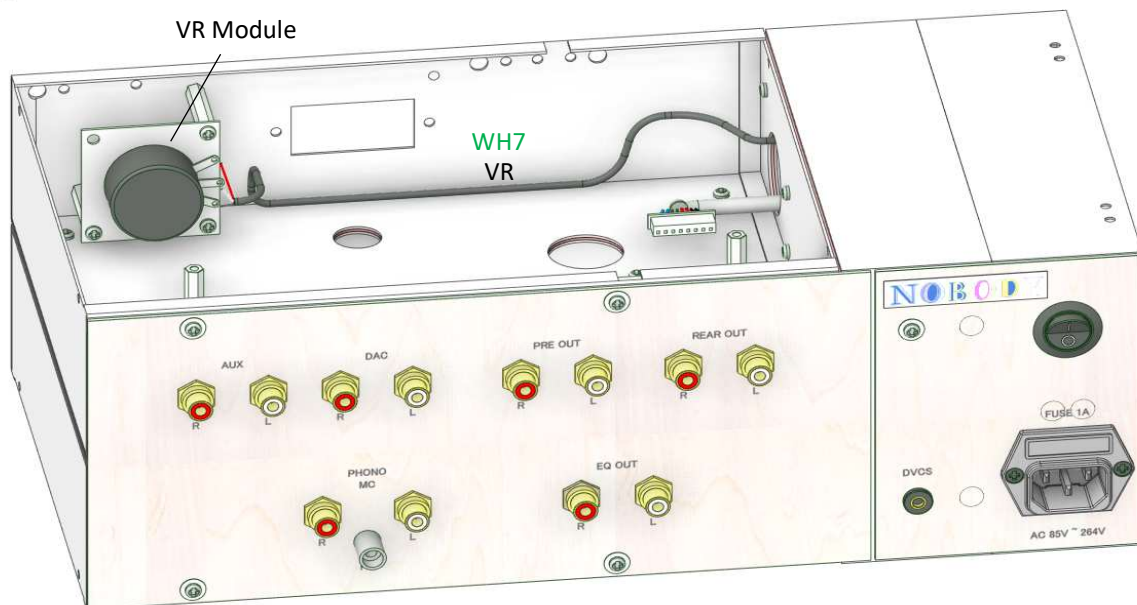
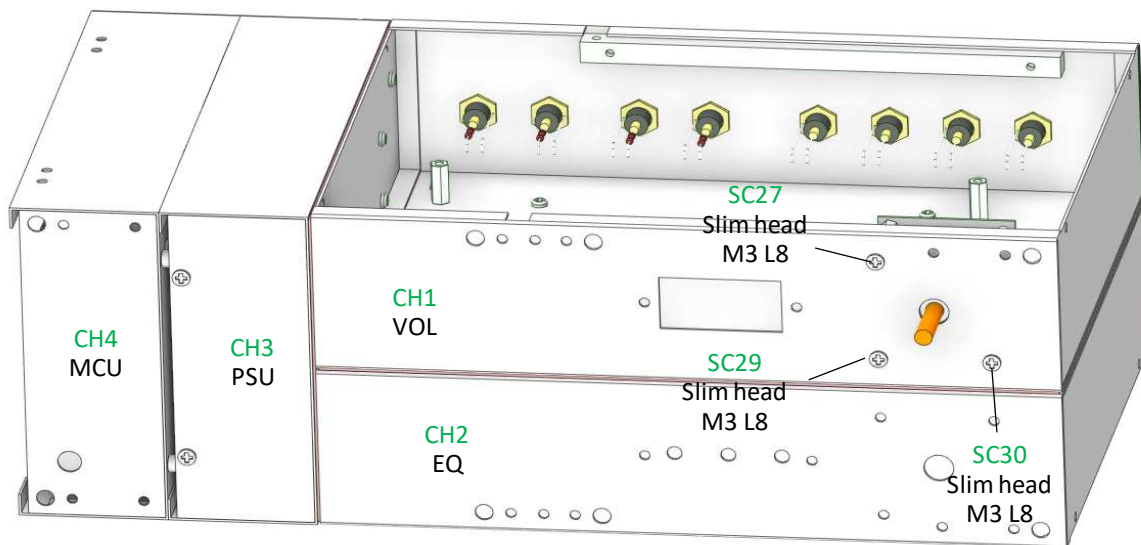


Solder W77-84 to RCA jacks.

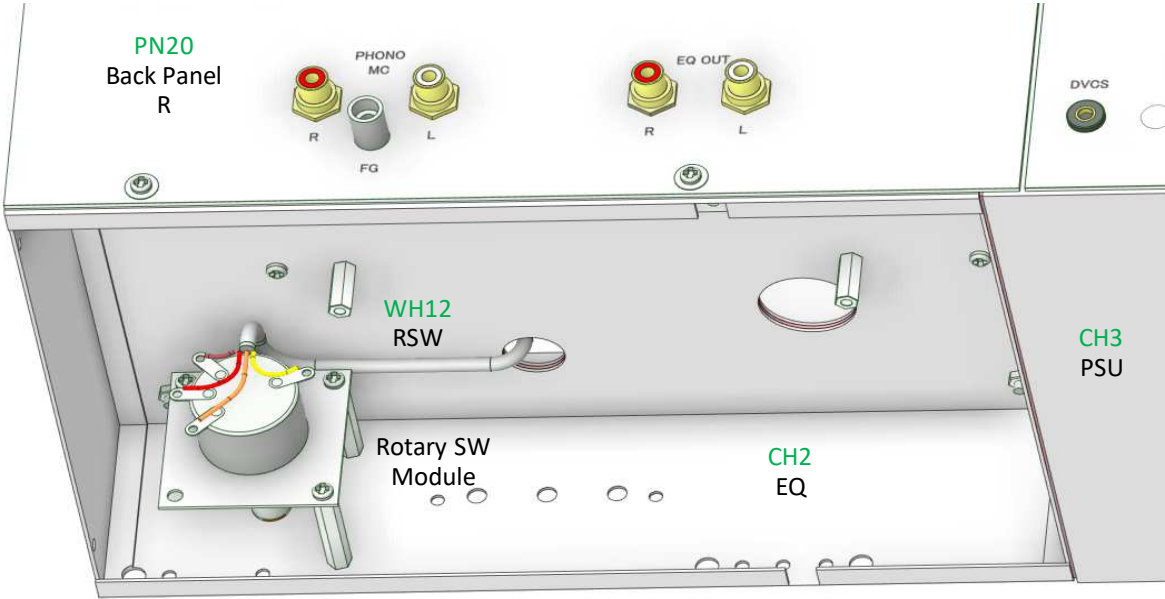
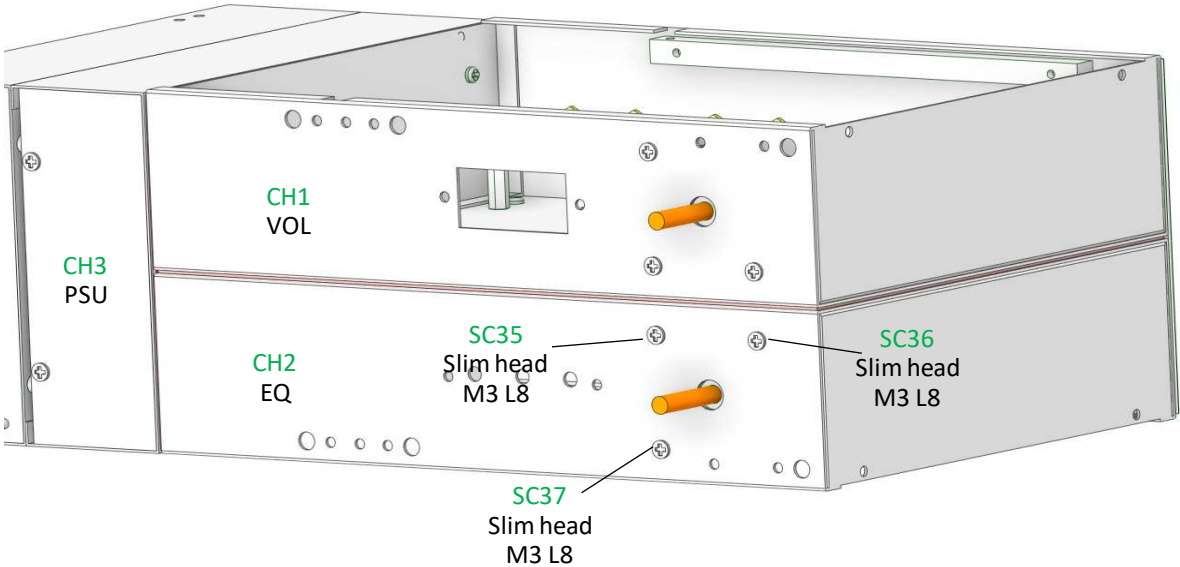


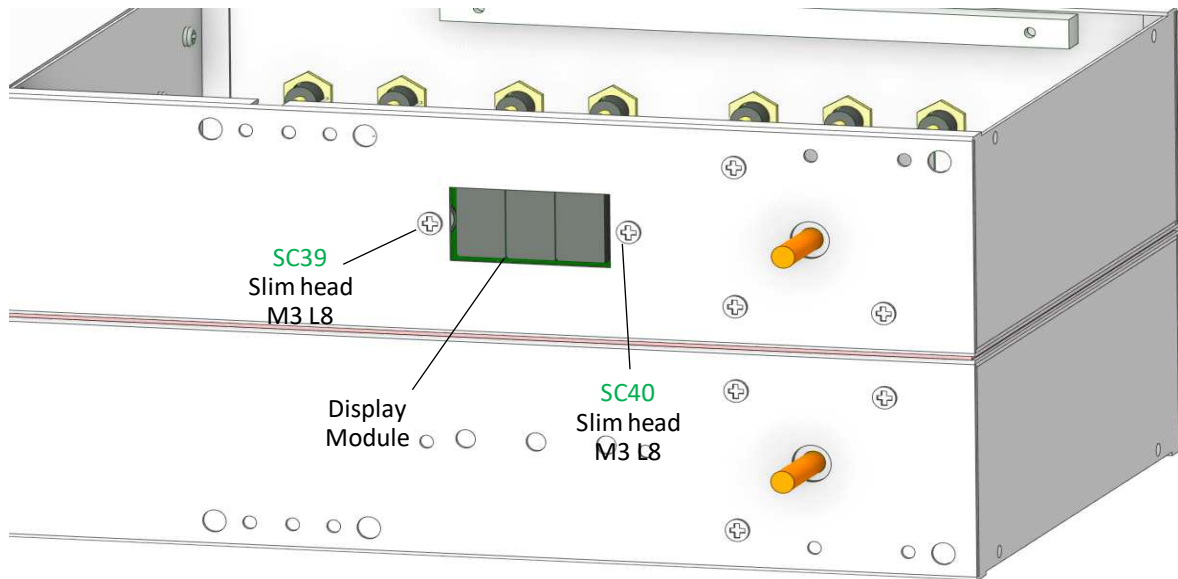
W77,79,81,83: L=28mm

W78,80,82,84: L=21mm

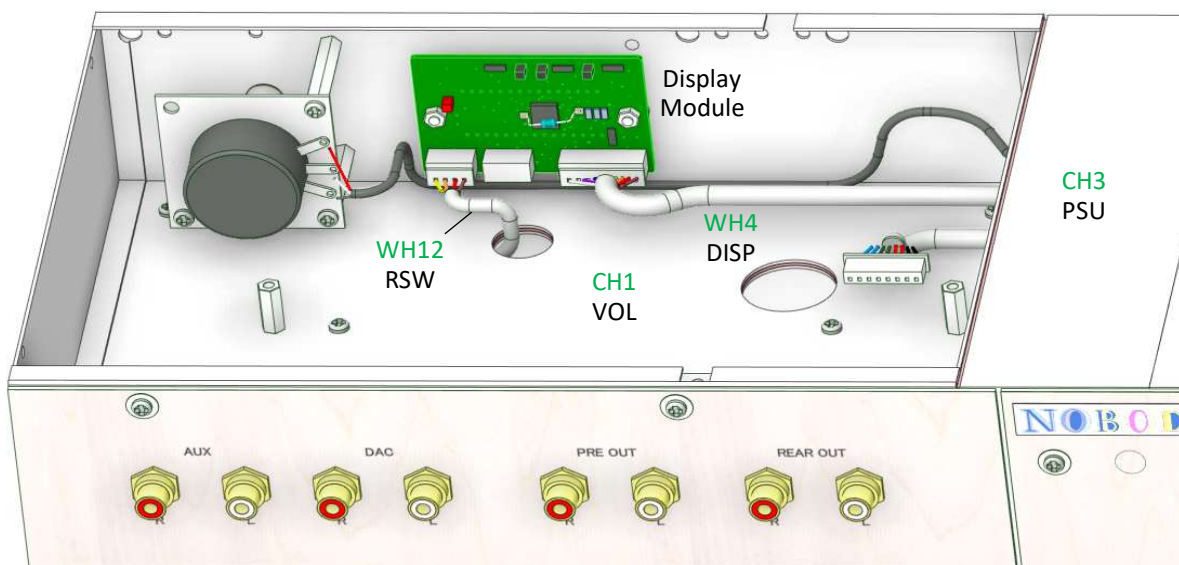
Install Modules*** VR Module**

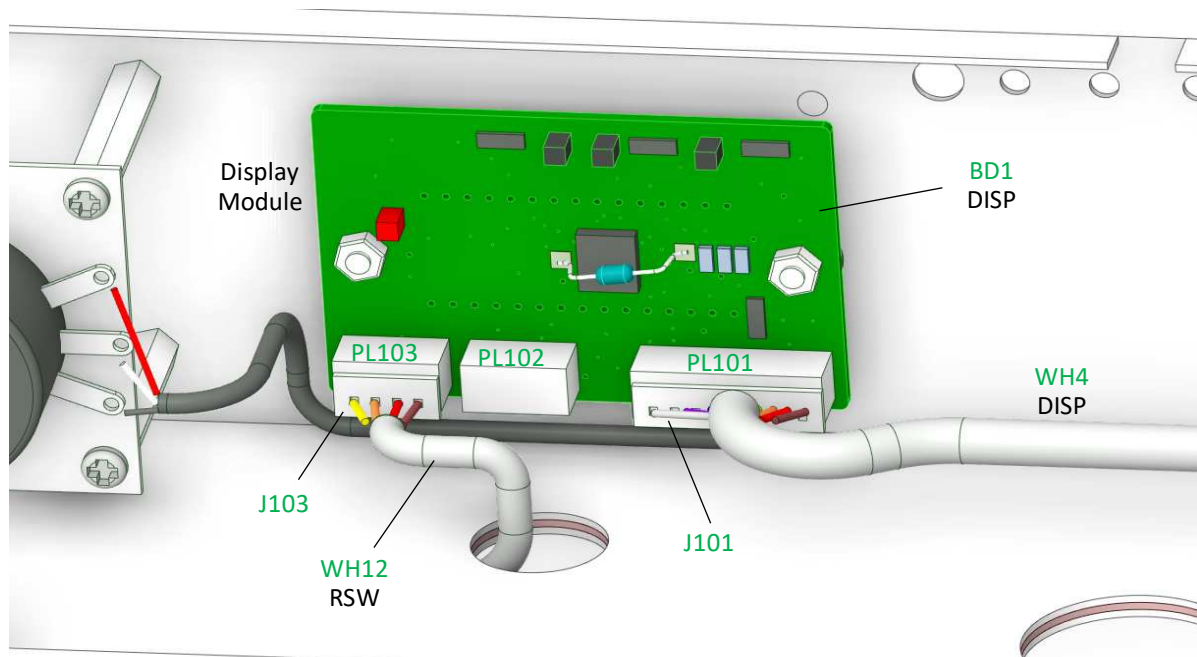
* Rotary SW Module



*** Display Module**

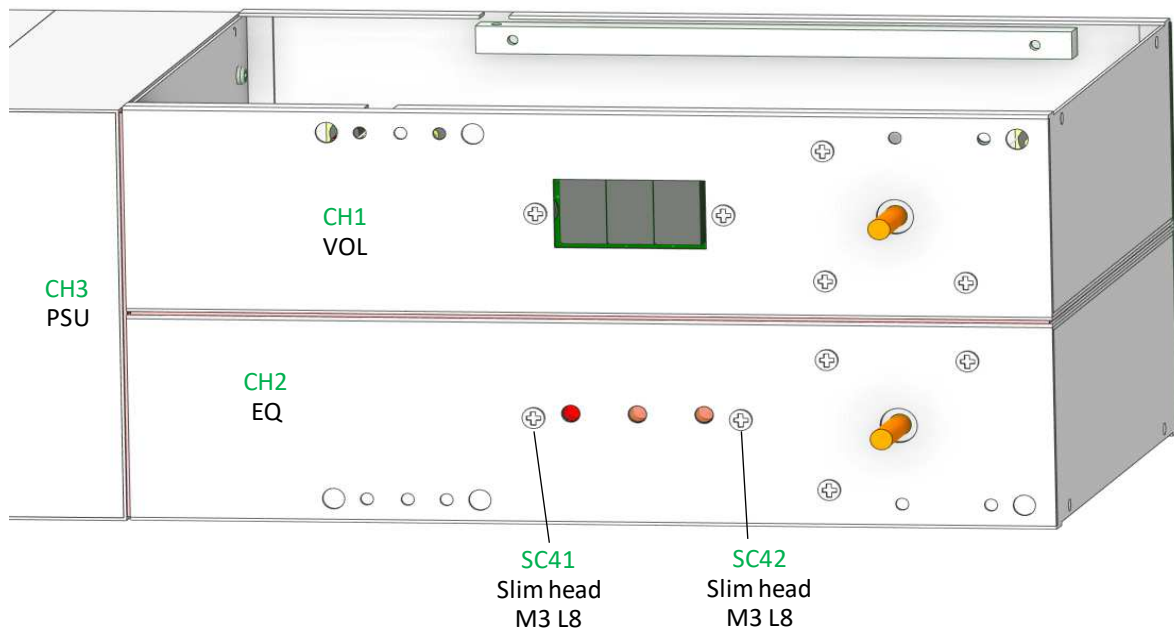
Connect wire harnesses WH4,12 to Display Module.

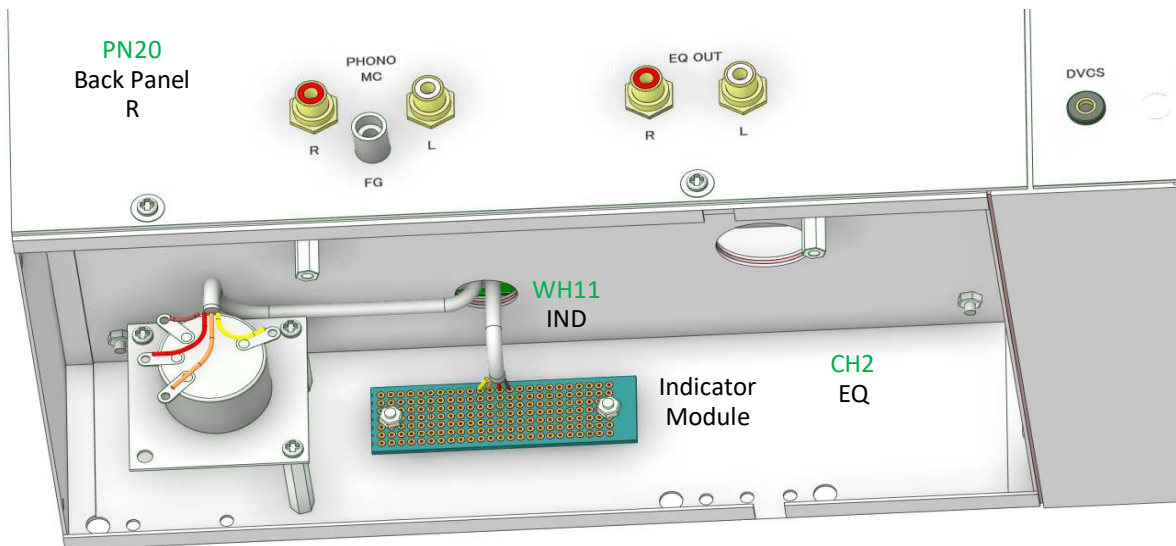




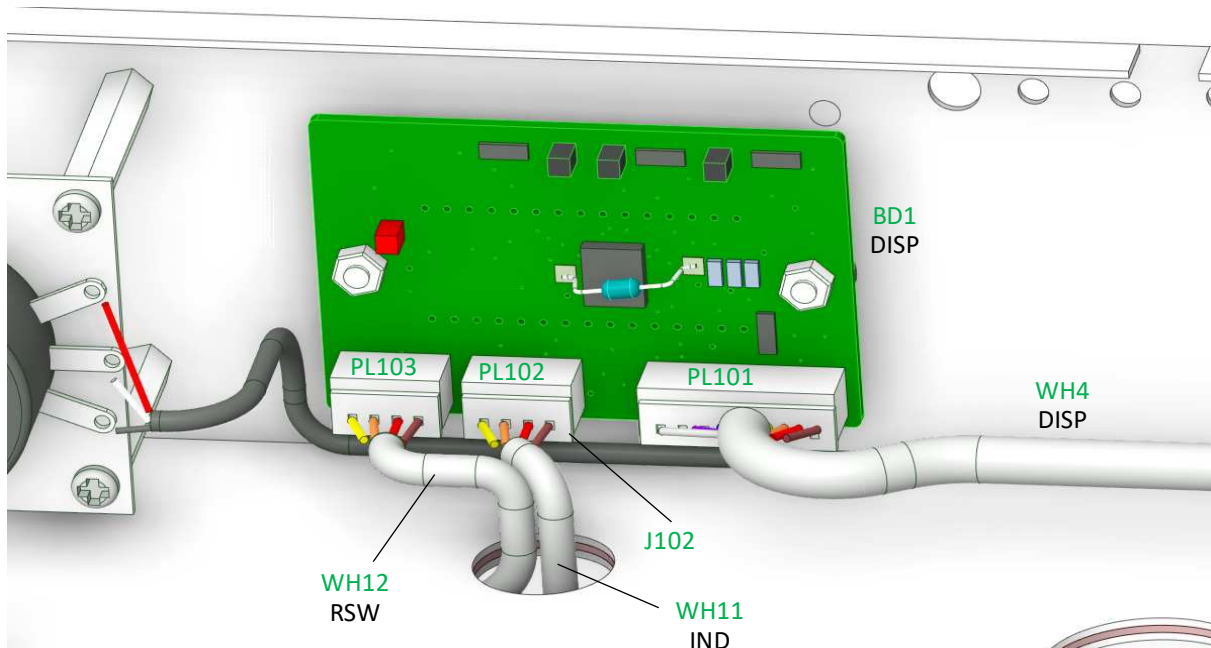
Jnnn ==> PLnnn

*** Indicator Module**





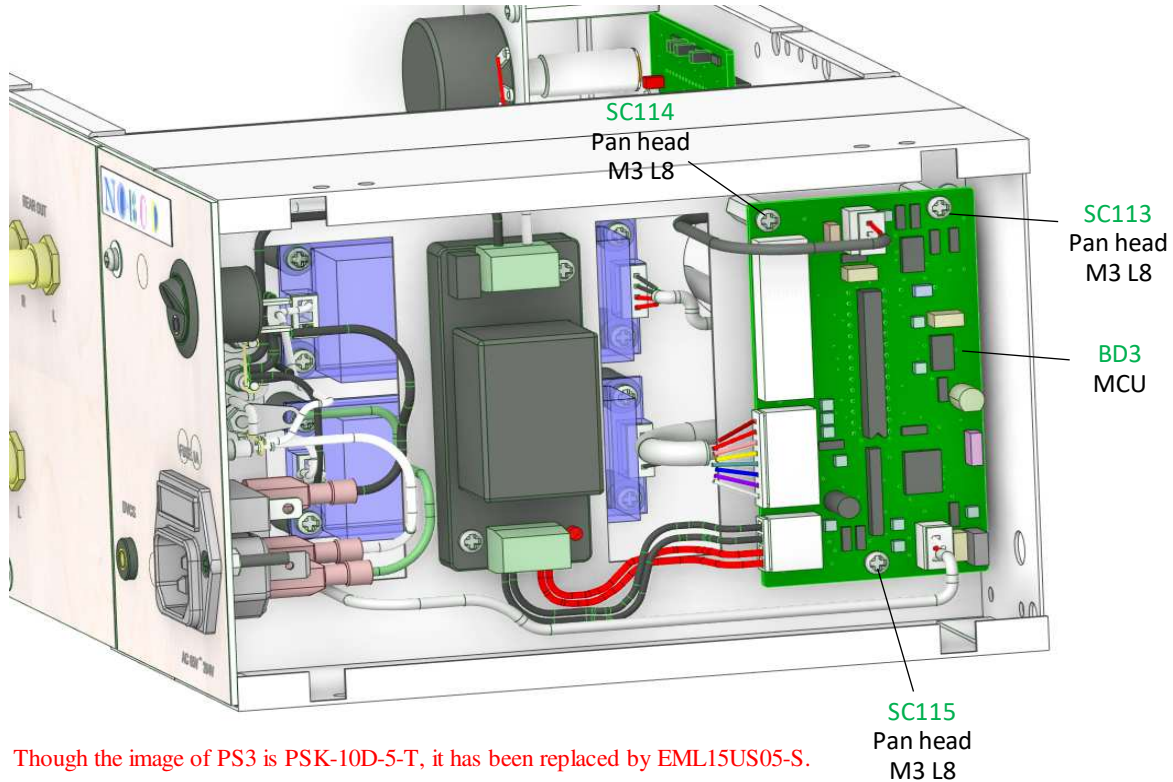
Connect wire harness WH11 to Display Module.



Jnnn ==> PLnnn

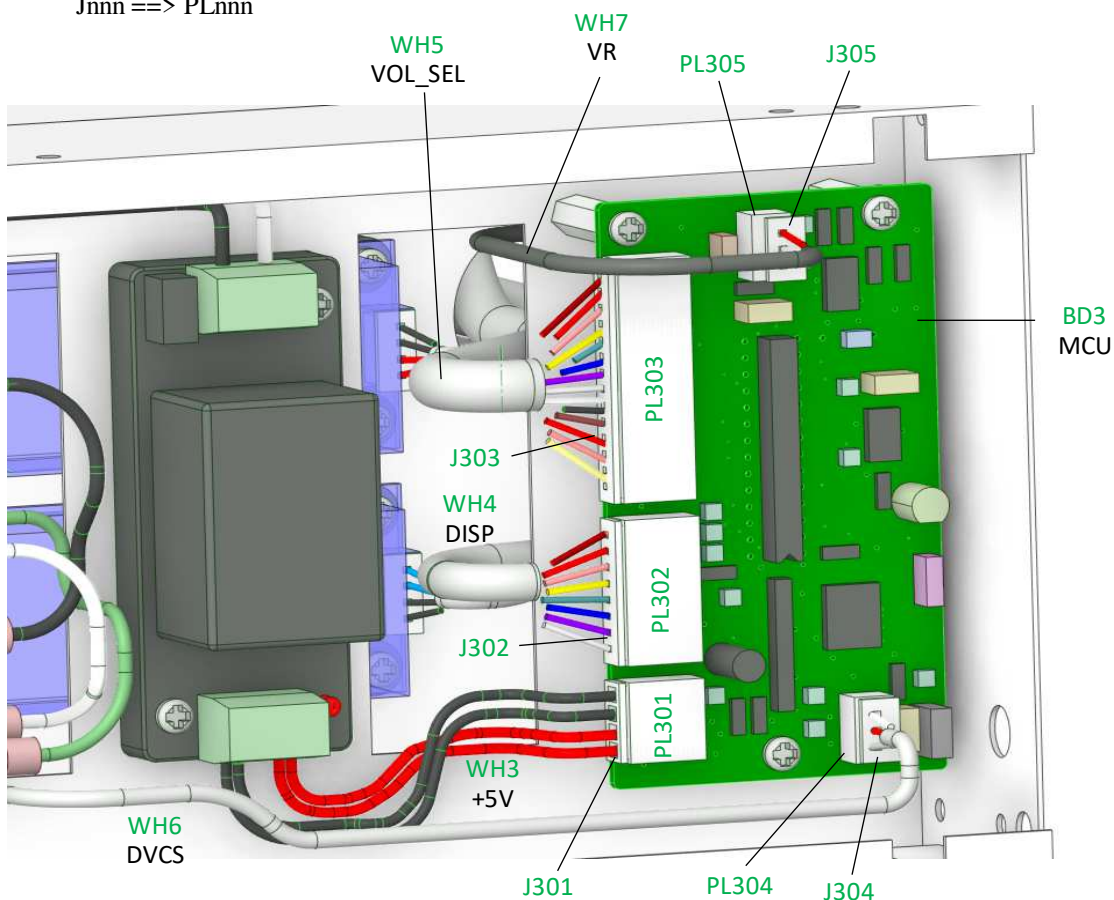
*** MCU Board**

Attach BD3.



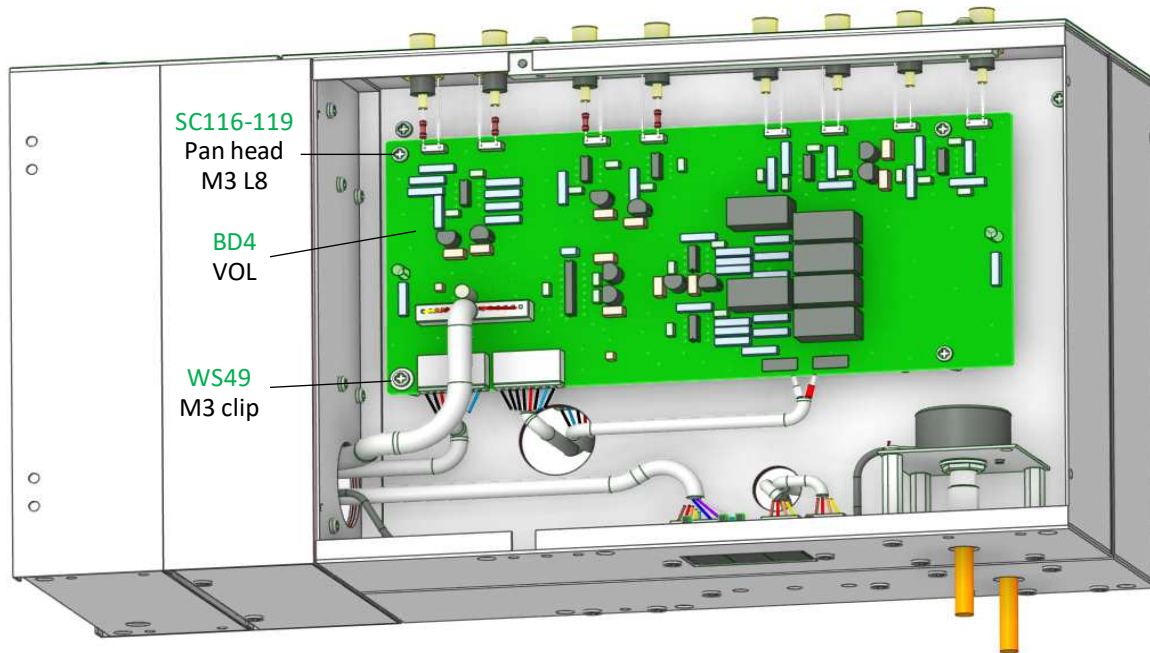
Connect wire harnesses WH3-7 to BD3.

Jnnn ==> PLnnn



*** VOL Board**

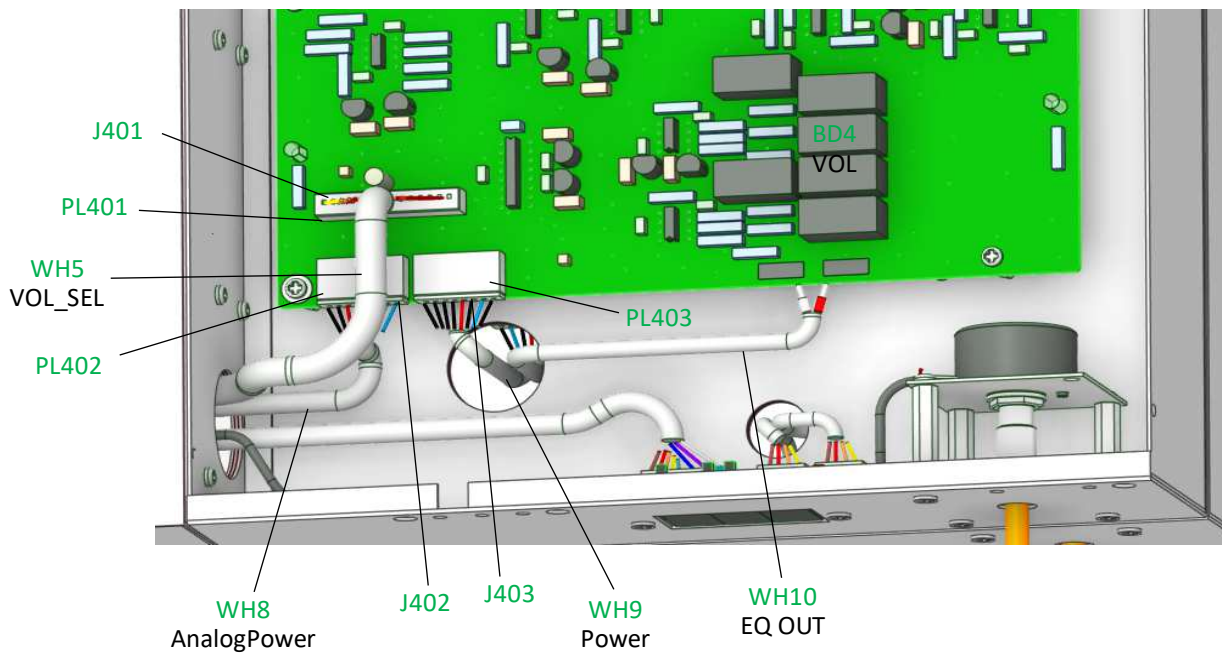
Attach BD4.



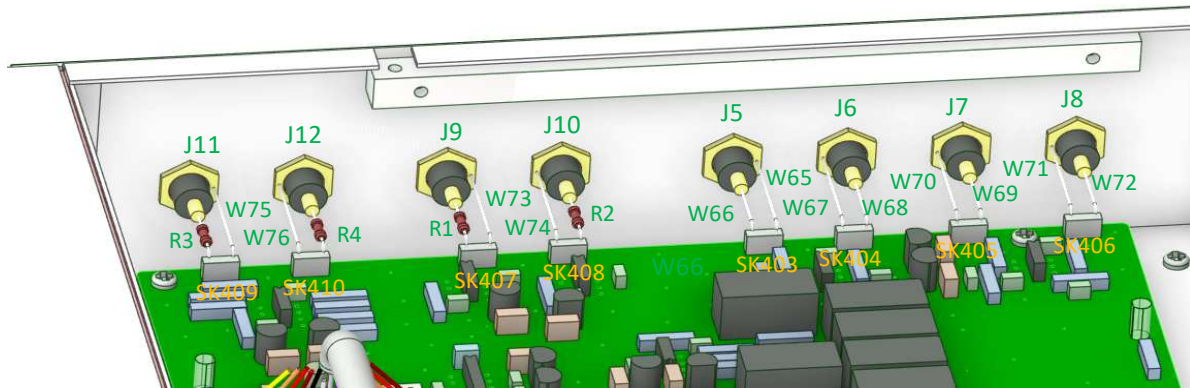
WS41-43 are used for insulation, which are necessary to fix the bug of PCB4.

Connect wire harnesses WH5,8-9 to BD4.

Jnnn ==> PLnnn

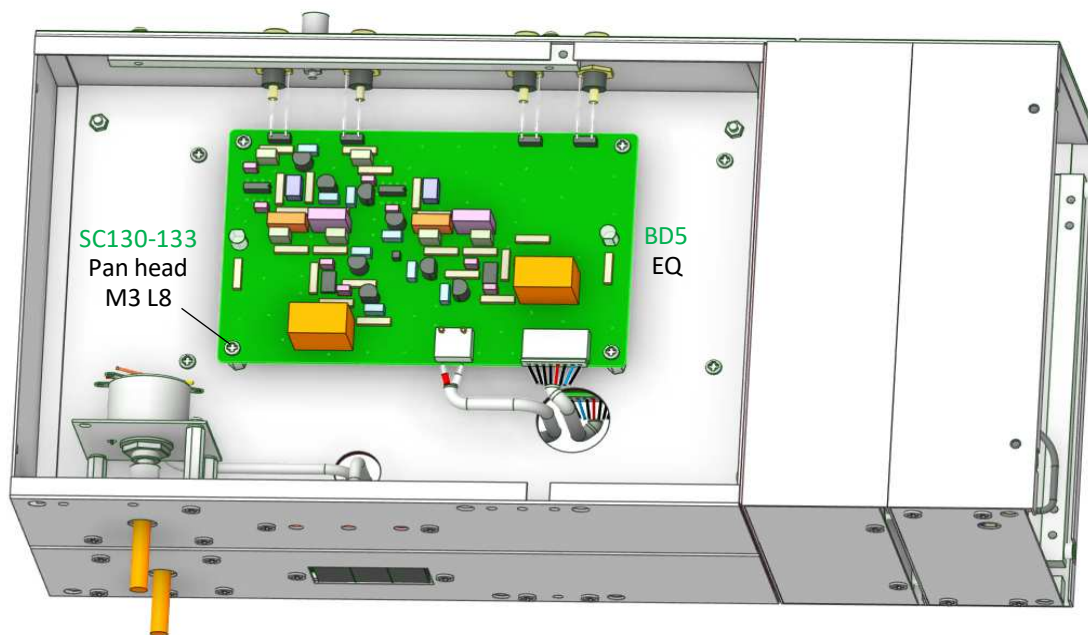


Connect R1-4 and W65-76 to BD4.



*** EQ Board**

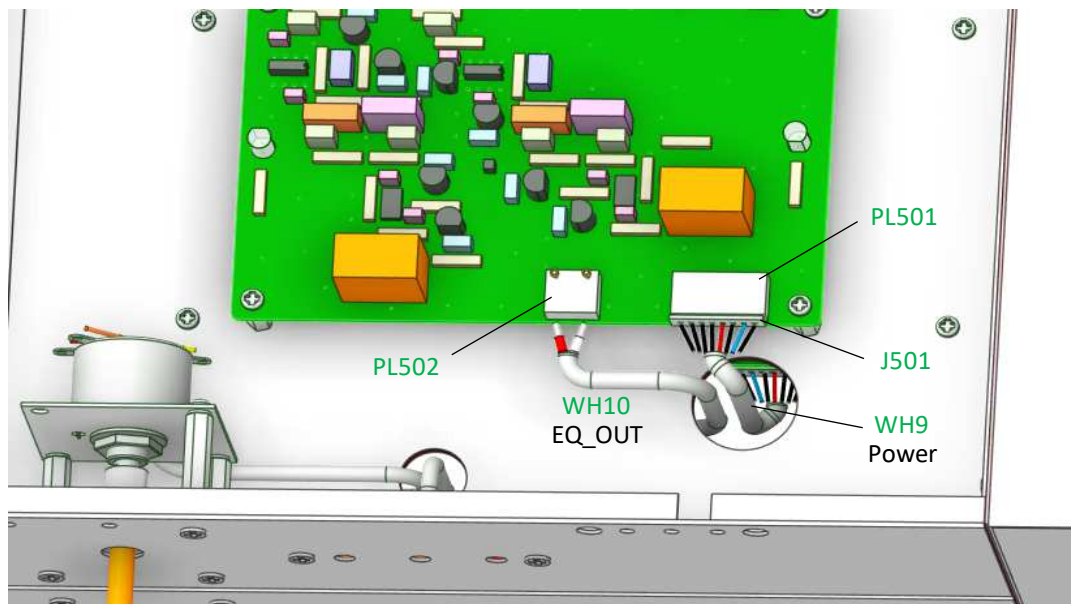
Attach BD5.



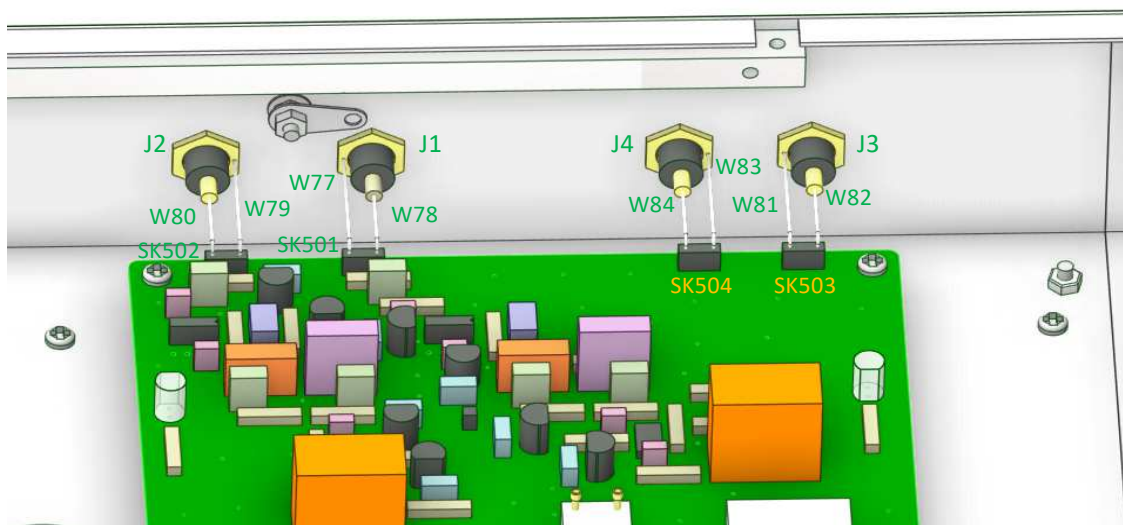
Connect wire harnesses WH9-10 to BD5.

J501 ==> PL501

WH10:W55(red) ==> PL502:P1, WH10:W56(white) ==> PL502:P4



Connect W77-84 to BD5.



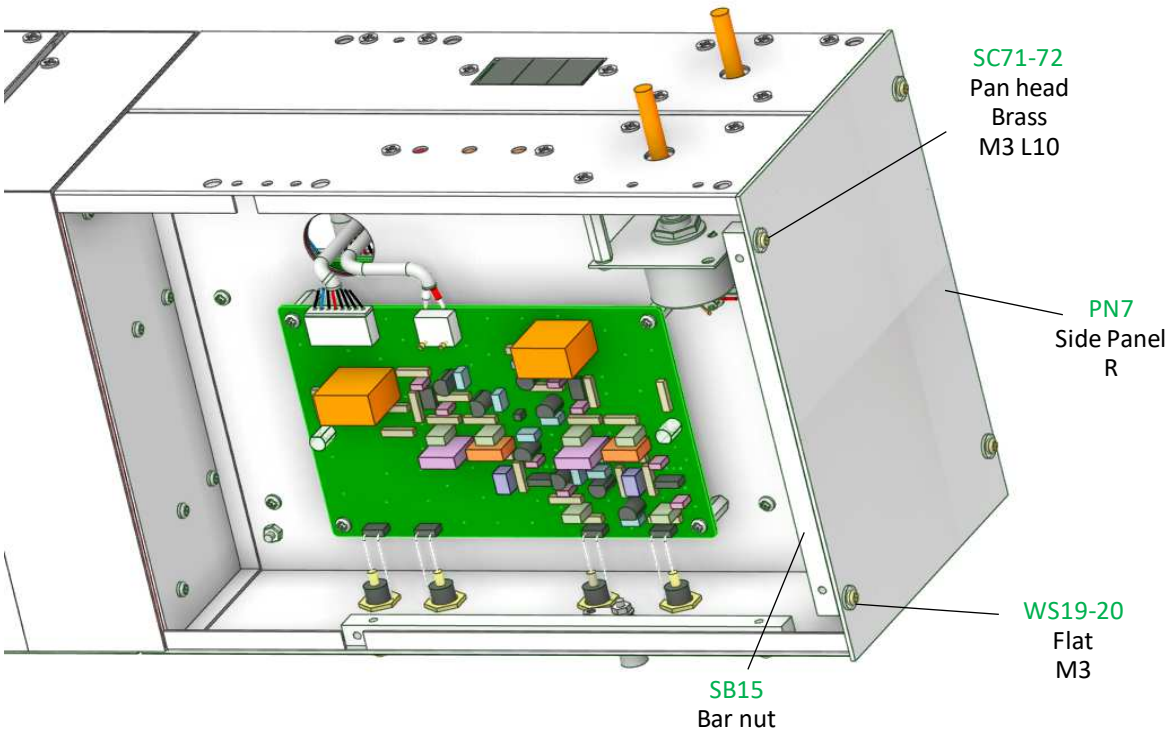
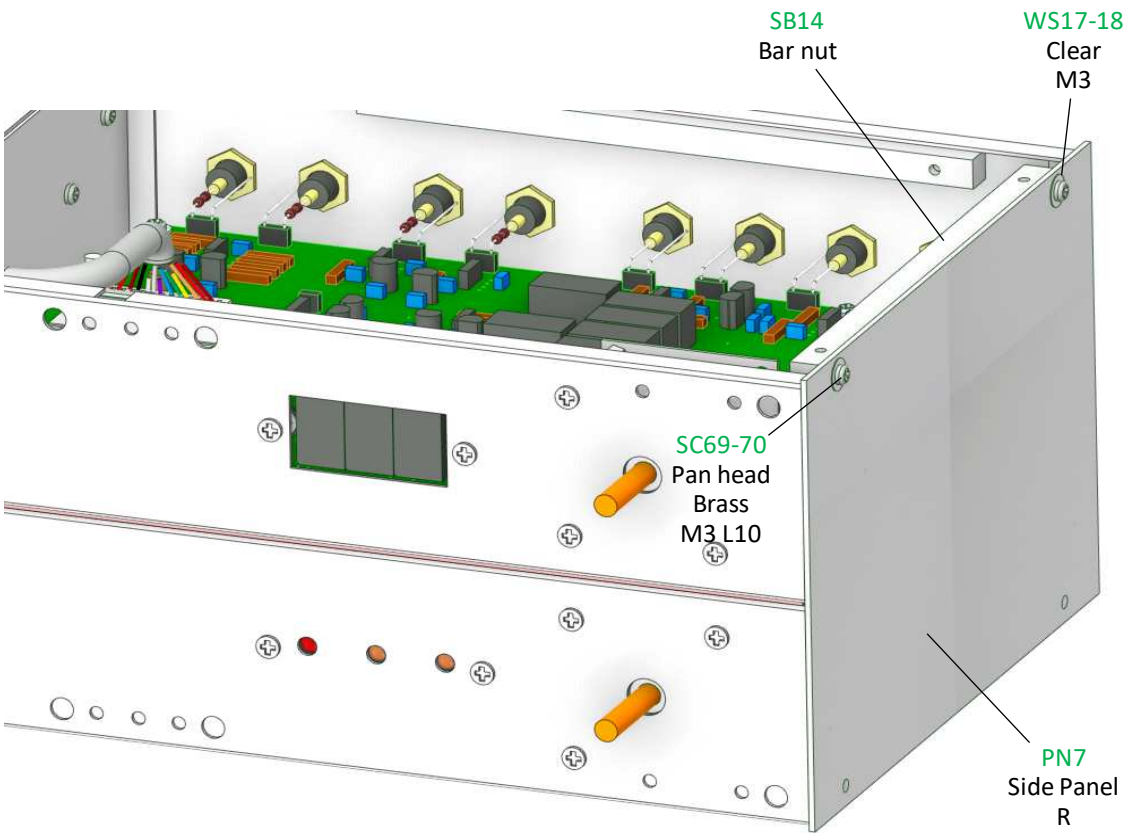
Now, ready to check!

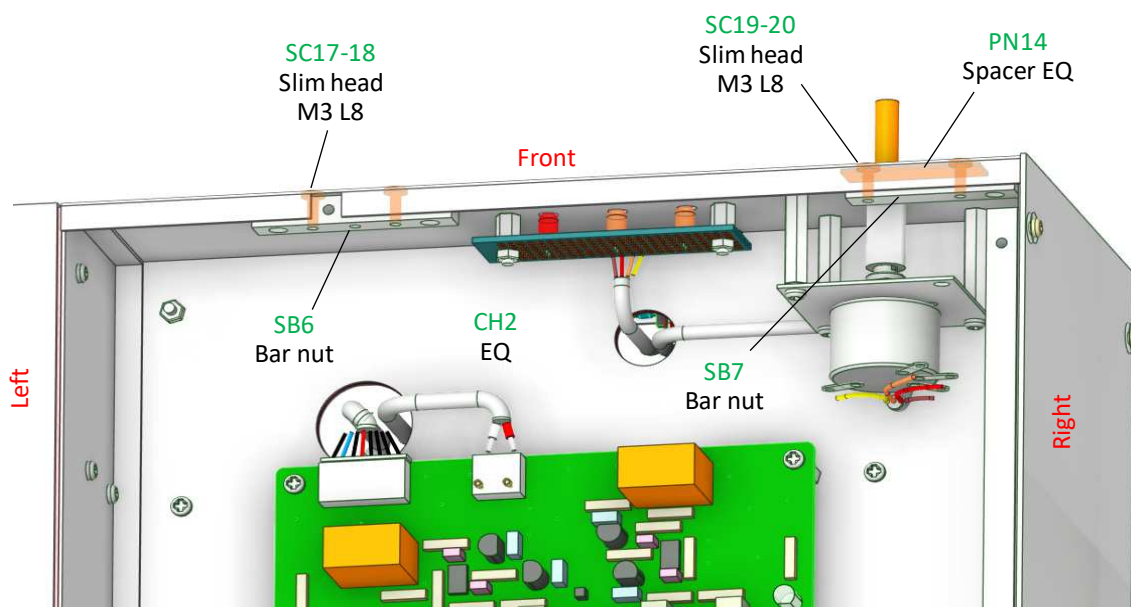
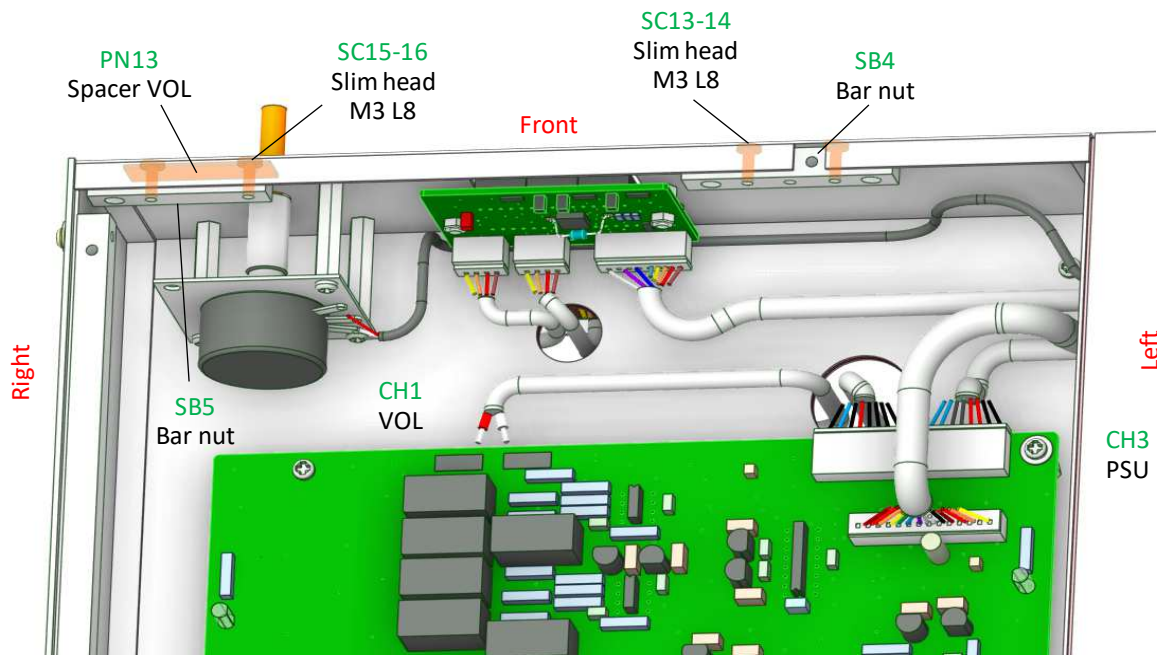
Until the check is done, the chassis is to remain open.

Panels

The outer panels, Bottom Panels, Side Panels and Front Panels, are fixed after checking is done.

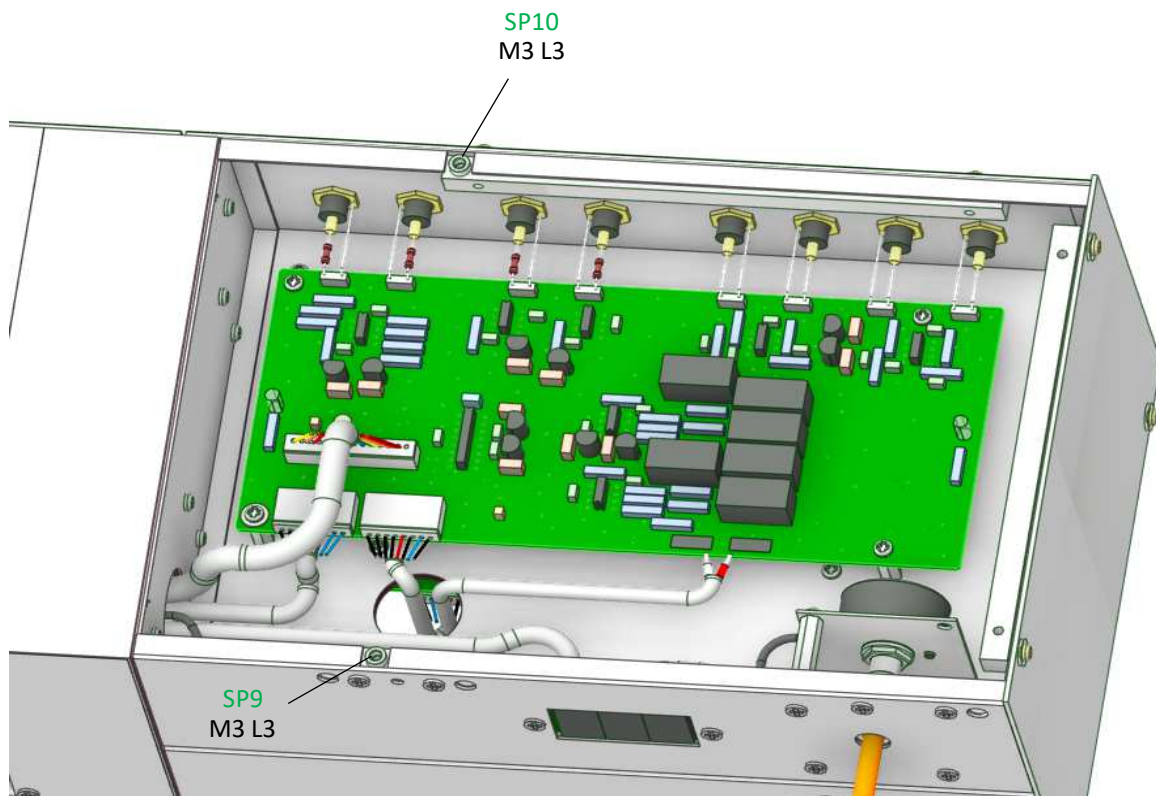
*** Side Panel R**



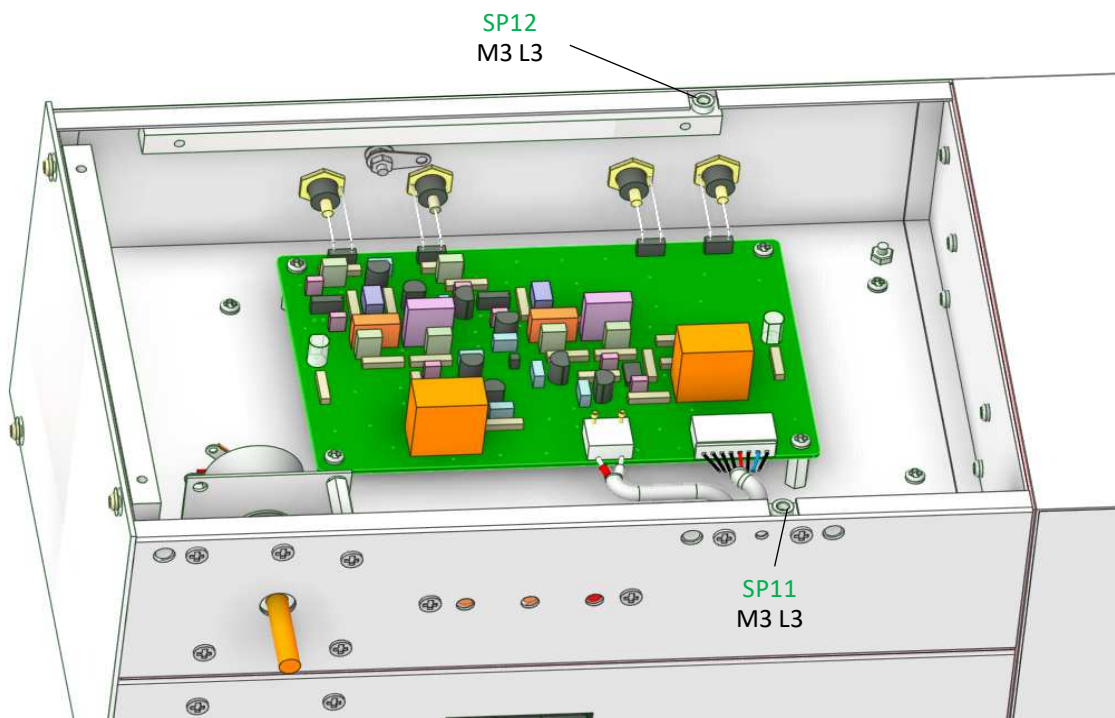
*** Bar nuts on front side**

*** Spacers for Bottom and Top Panels**

Fix SP9-10 with ThreeBond 1401B.

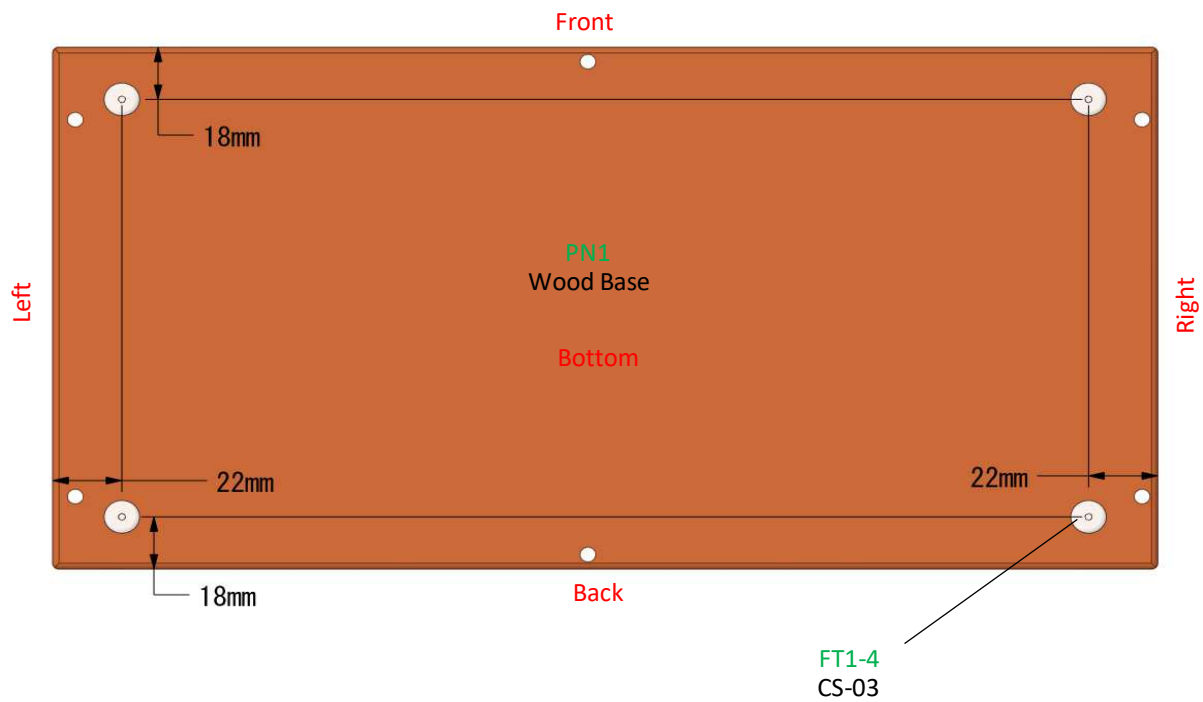


Fix SP11-12 with ThreeBond 1401B.

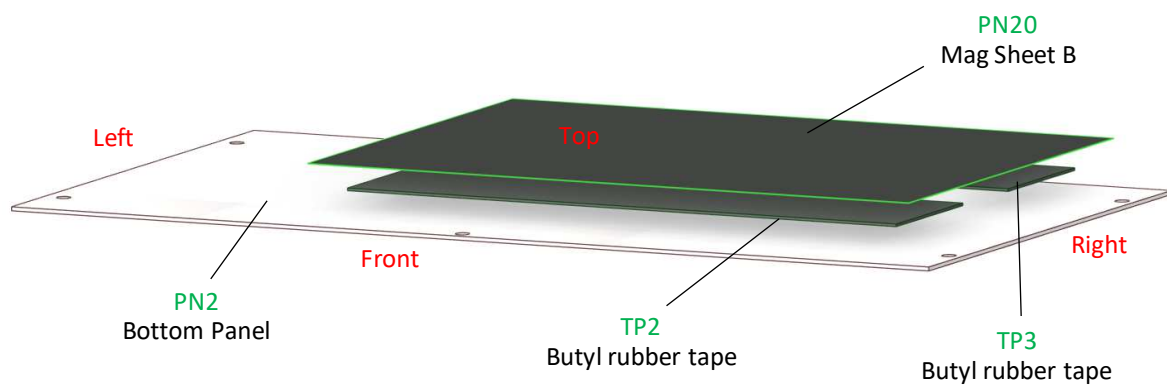


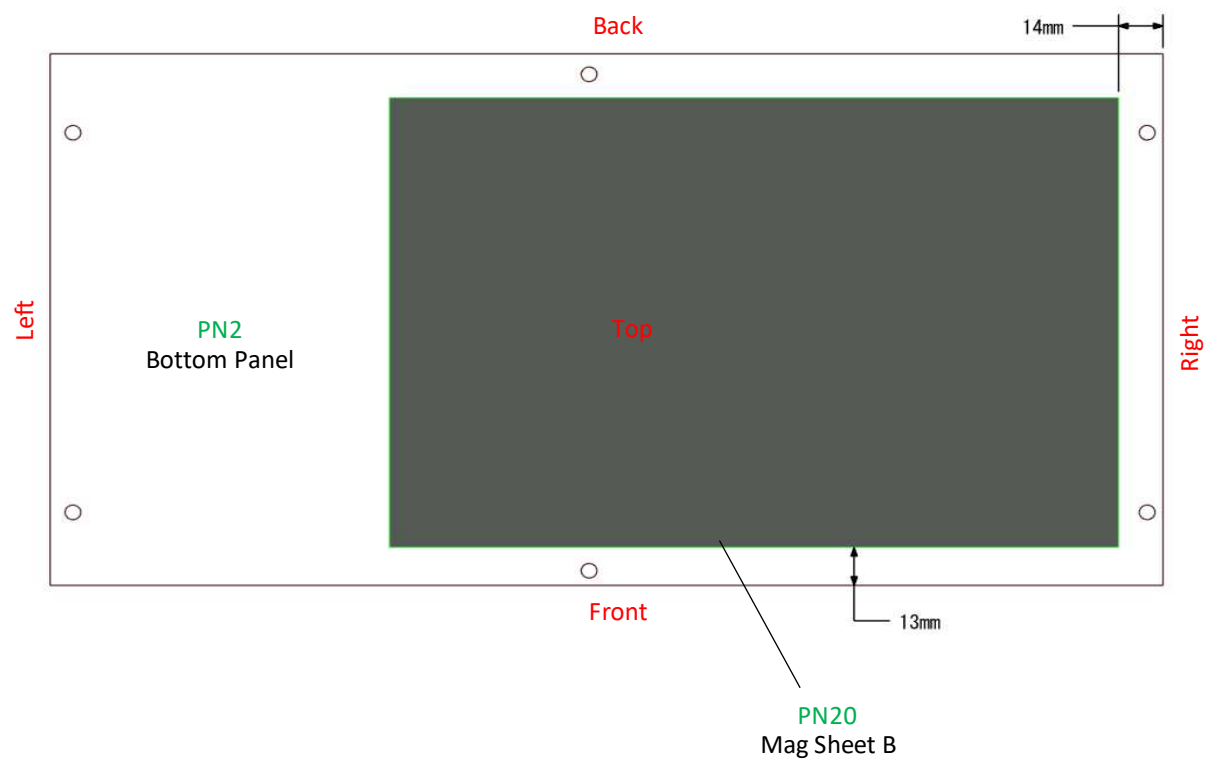
*** Bottom panel**

Attach FT1-4 to PN1.

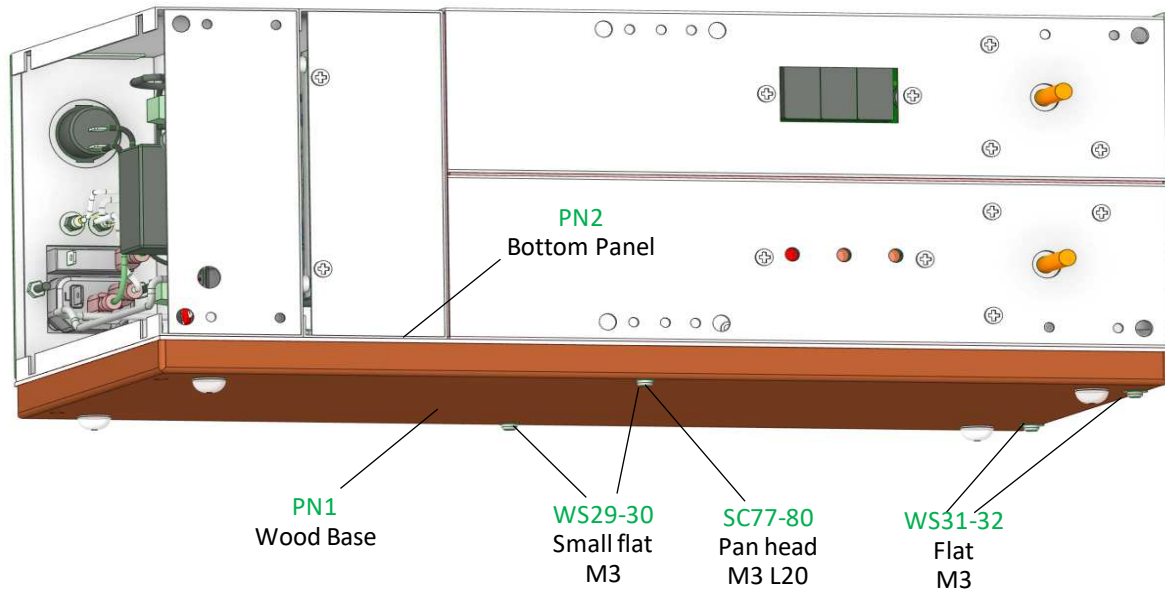


Affix Mag Sheet B (PN20) to PN2 w/ butyl rubber tape (TP2-3).

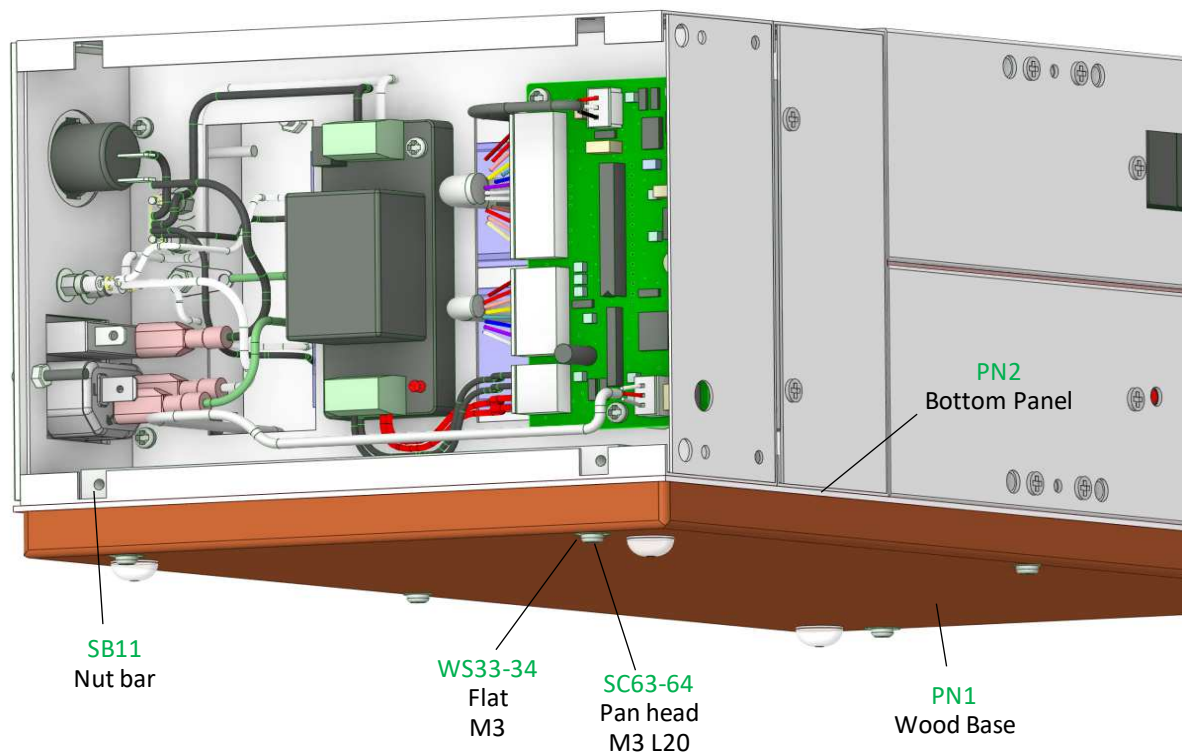




Fix Bottom Panels: PN1-2.



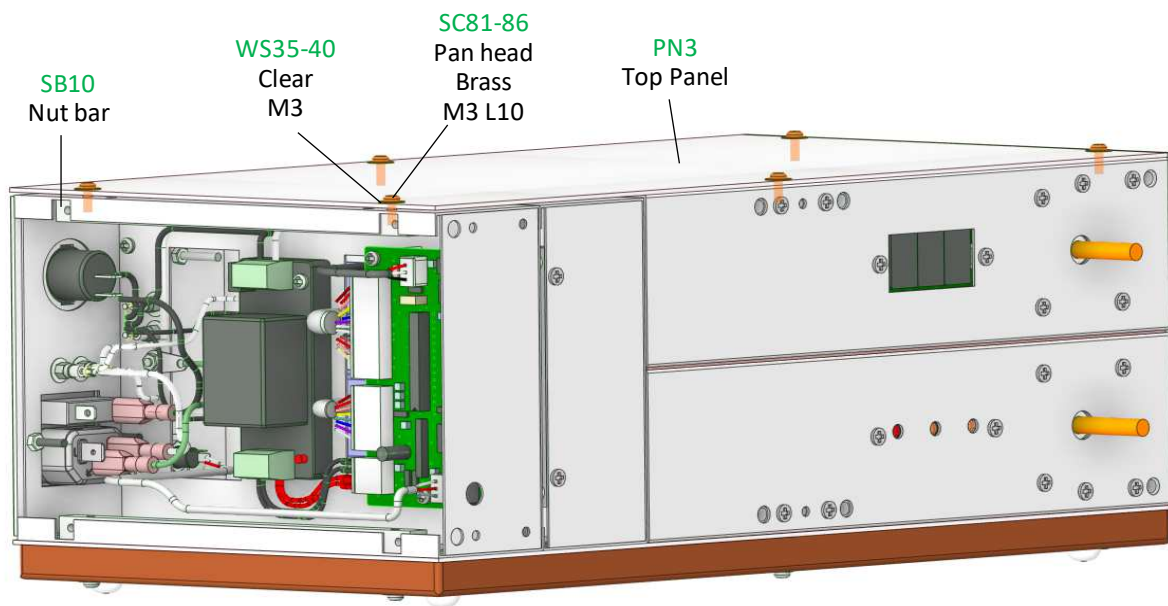
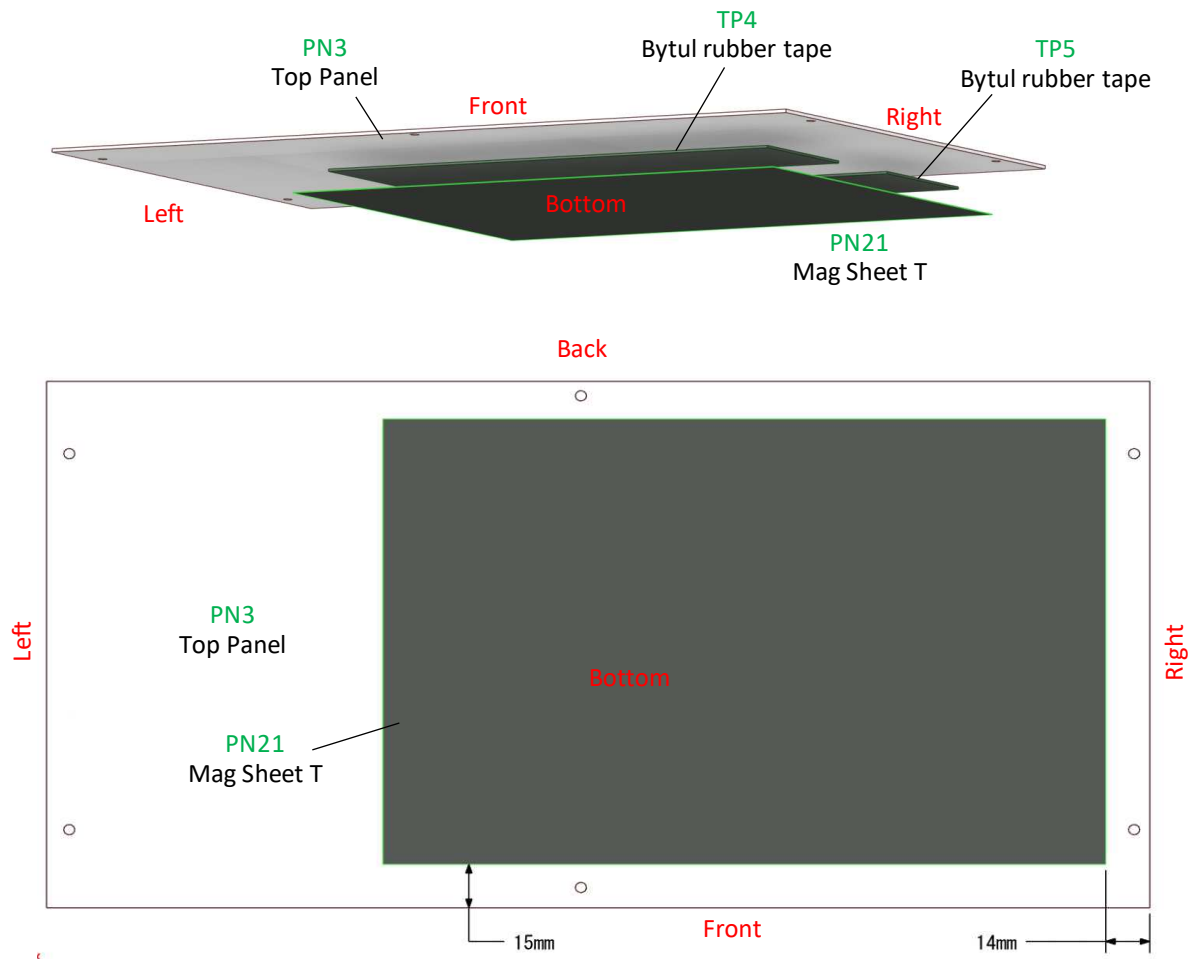
Attach SB11.



Though the image of PS3 is PSK-10D-5-T, it has been replaced by EML15US05-S.

*** Top Panel**

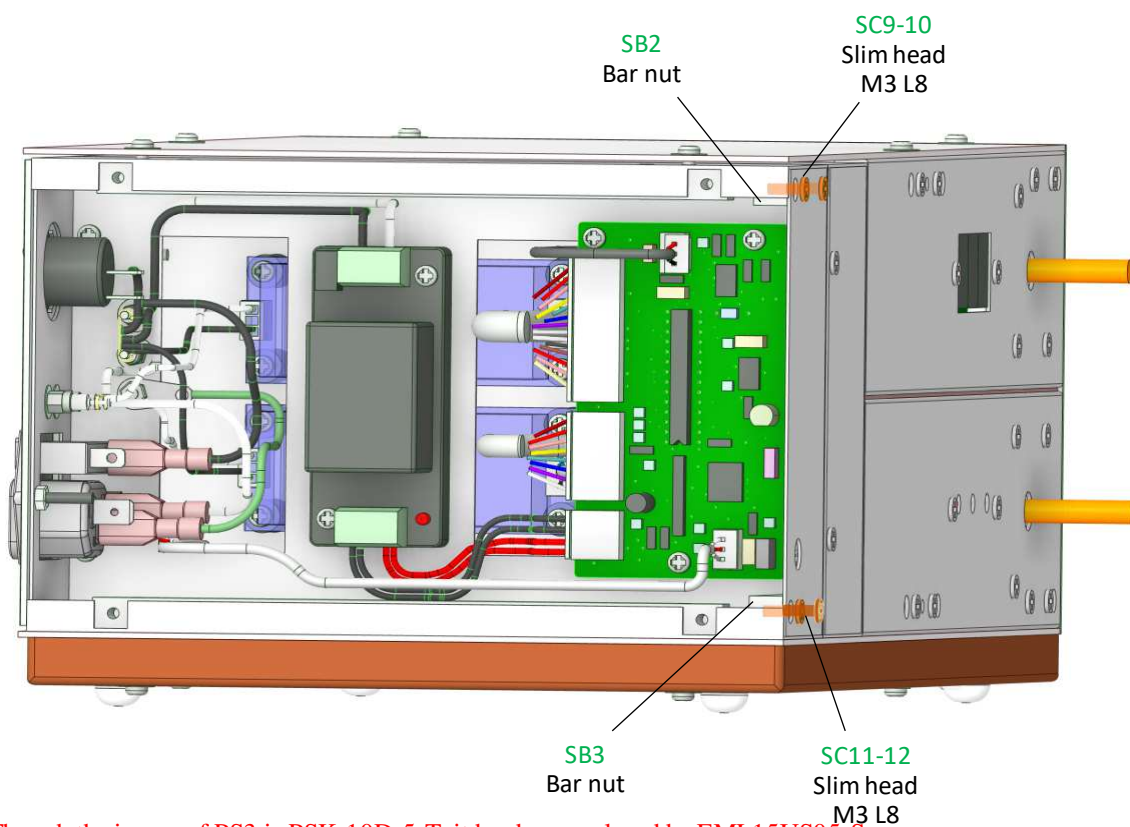
Affix Mag Sheet T (PN21) to PN3 w/ butyl rubber tape (TP4-5).



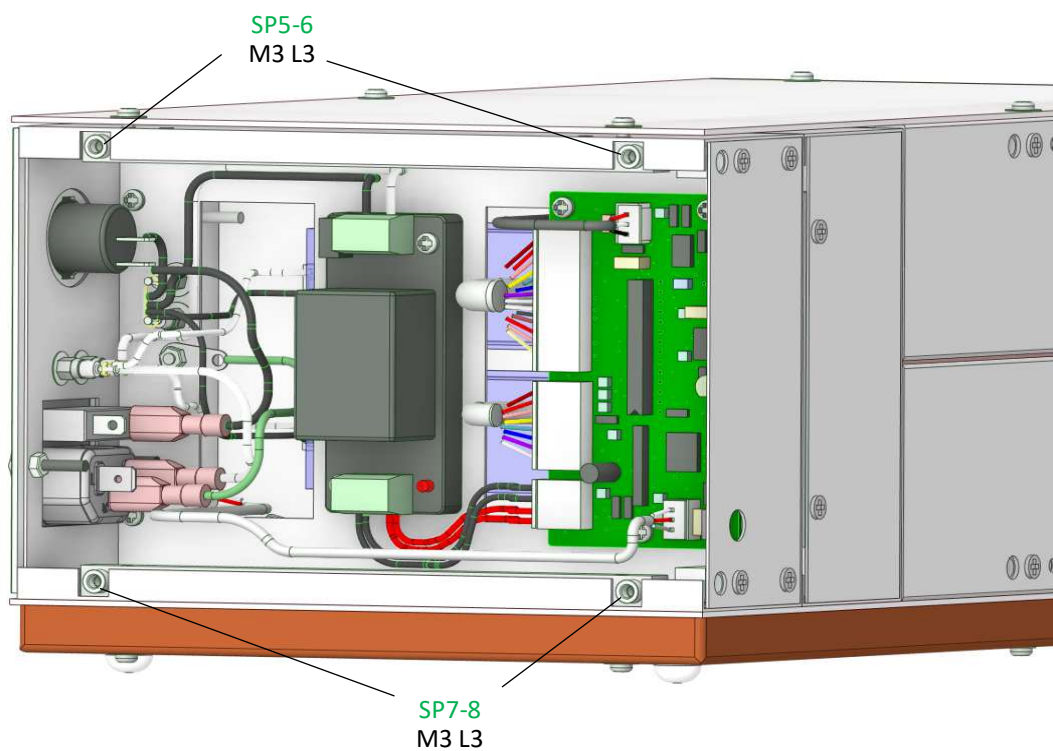
Though the image of PS3 is PSK-10D-5-T, it has been replaced by EML15US05-S.

*** Side Panel L**

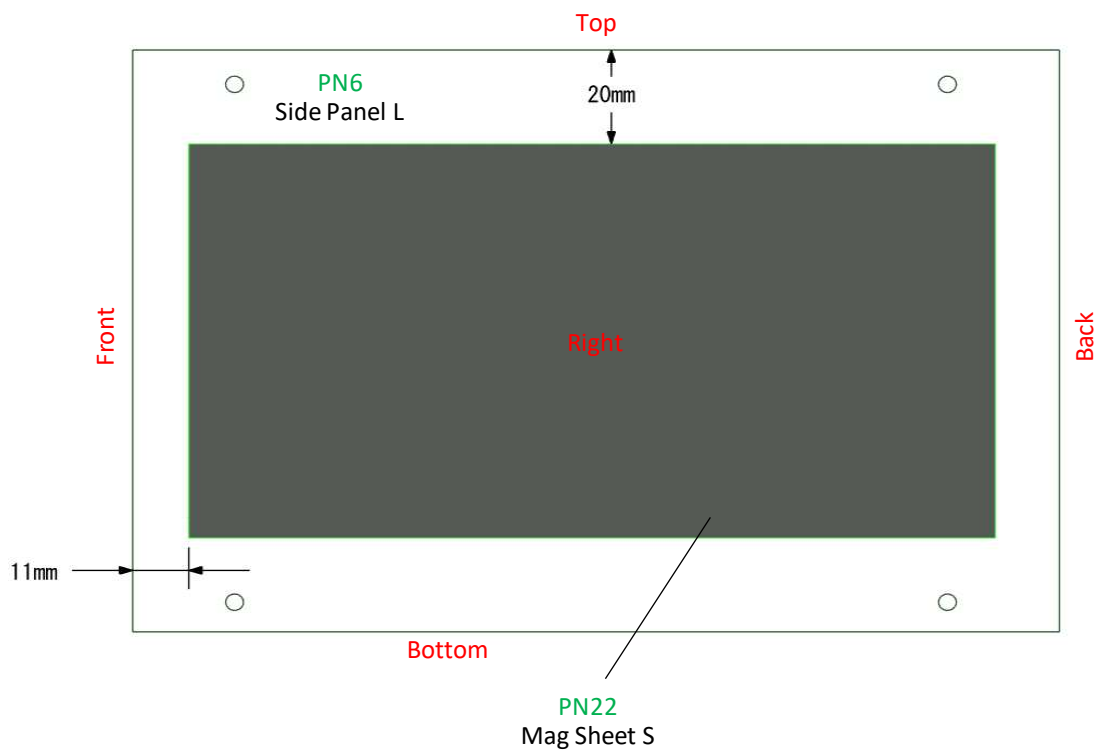
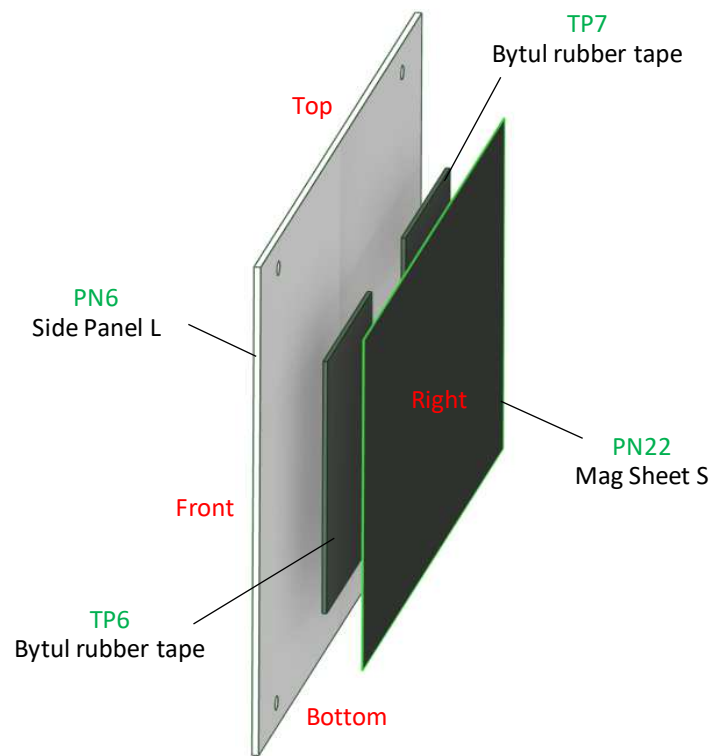
Attach bar nuts SB2-3 on the front side.



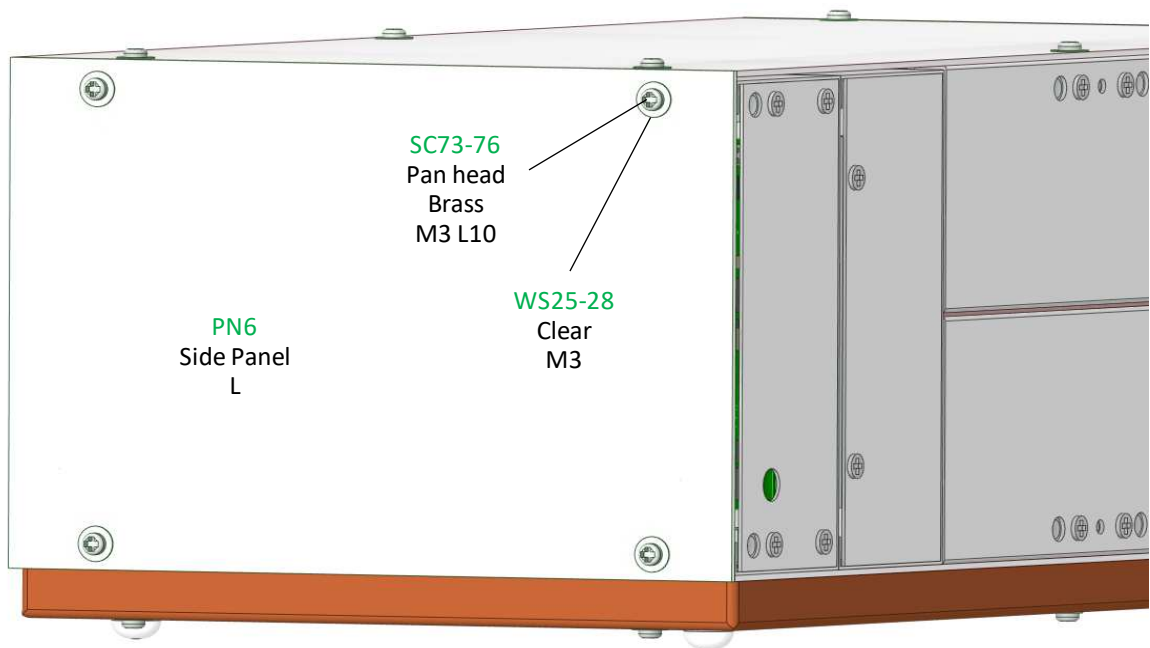
Fix spacers SP5-8 on the nut bars with ThreeBond 1401B.



Affix Mag Sheet S (PN22) to PN6 w/ butyl rubber tape (TP6-7).

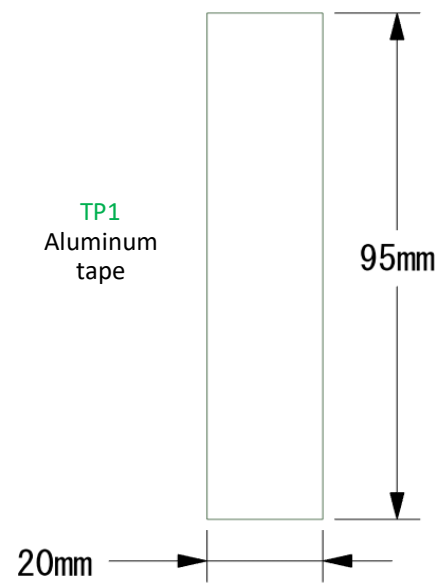


Fix PN6.

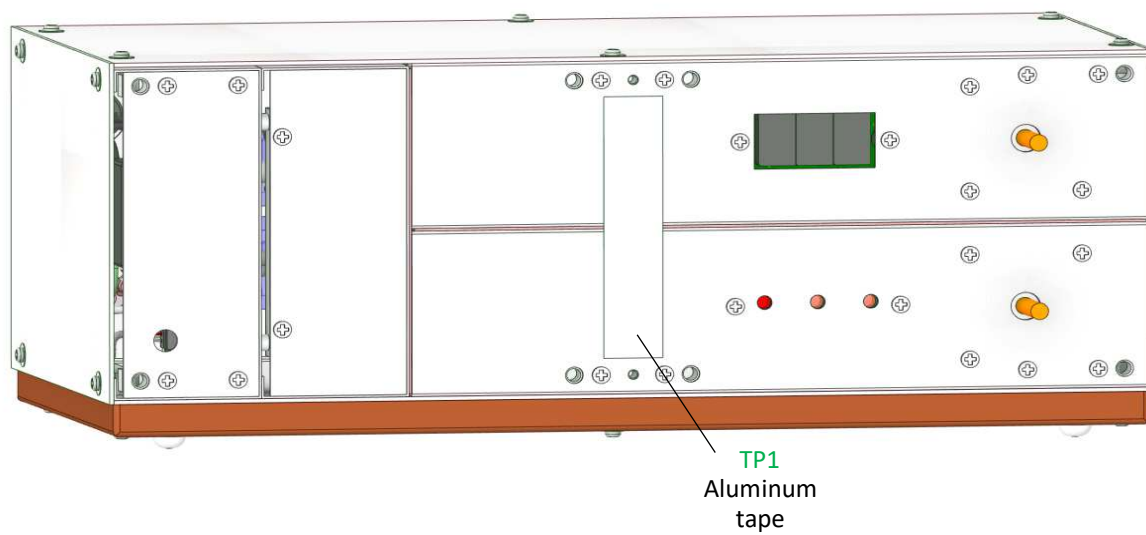


*** Front Panels**

Cut aluminum tape.



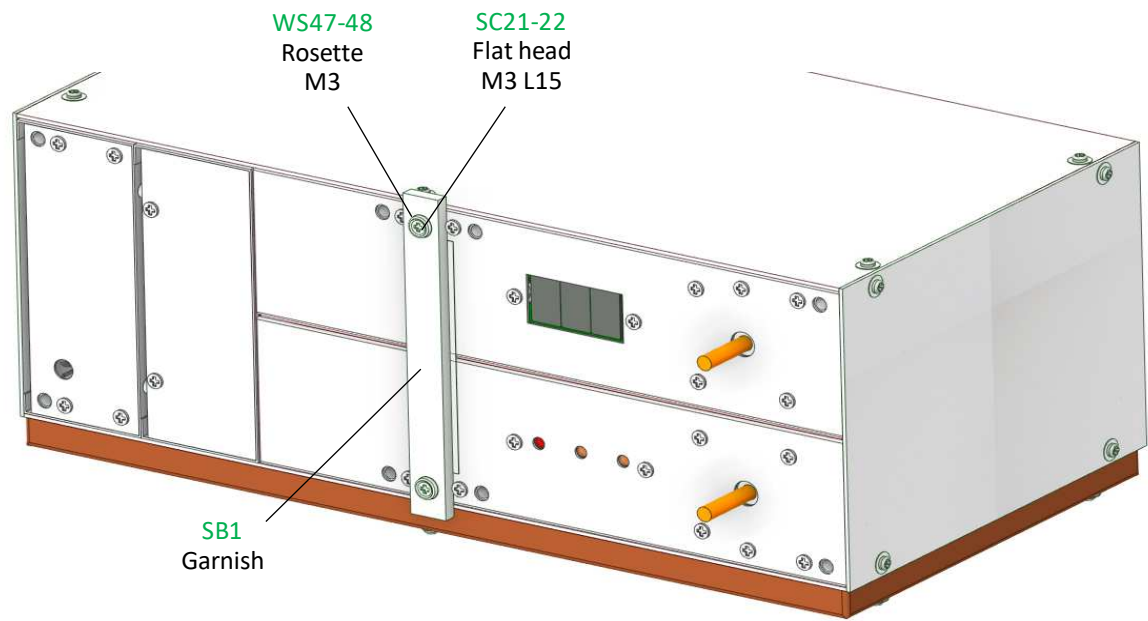
Affix TP1 on CH1-2.



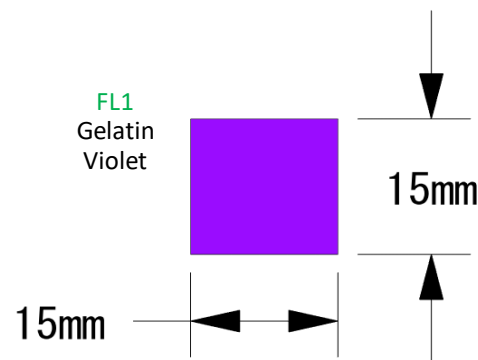
Attach Garnish.

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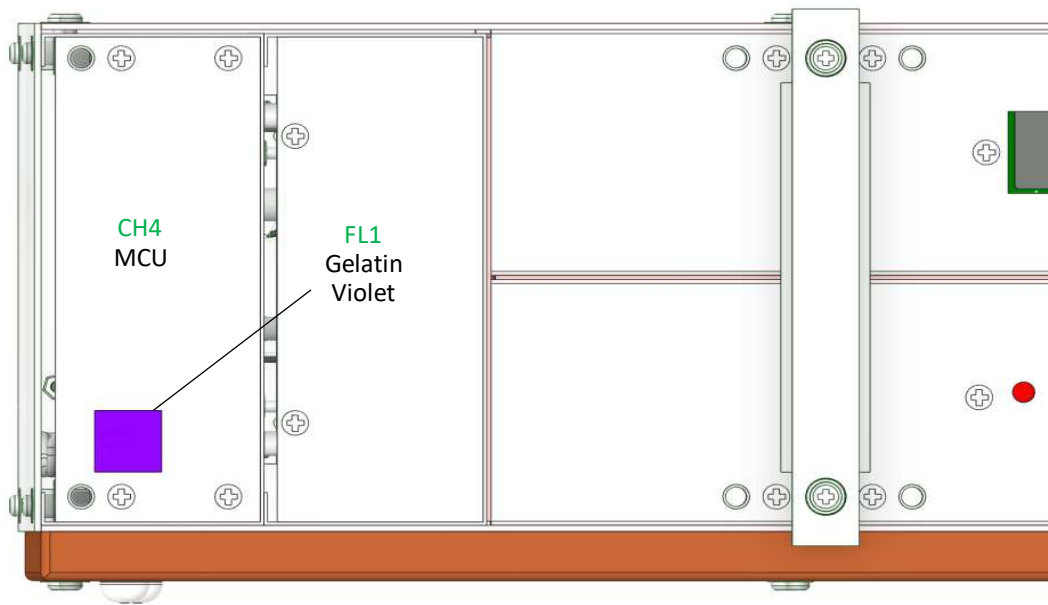
SB1 is used as garnish instead of PN18-19.



Cut gelatin film FL1.



Affix FL1 on CH4 to cover the hole for IR receiver.



Fix WS1-4 on PN10 w/ double-sided adhesive tape.



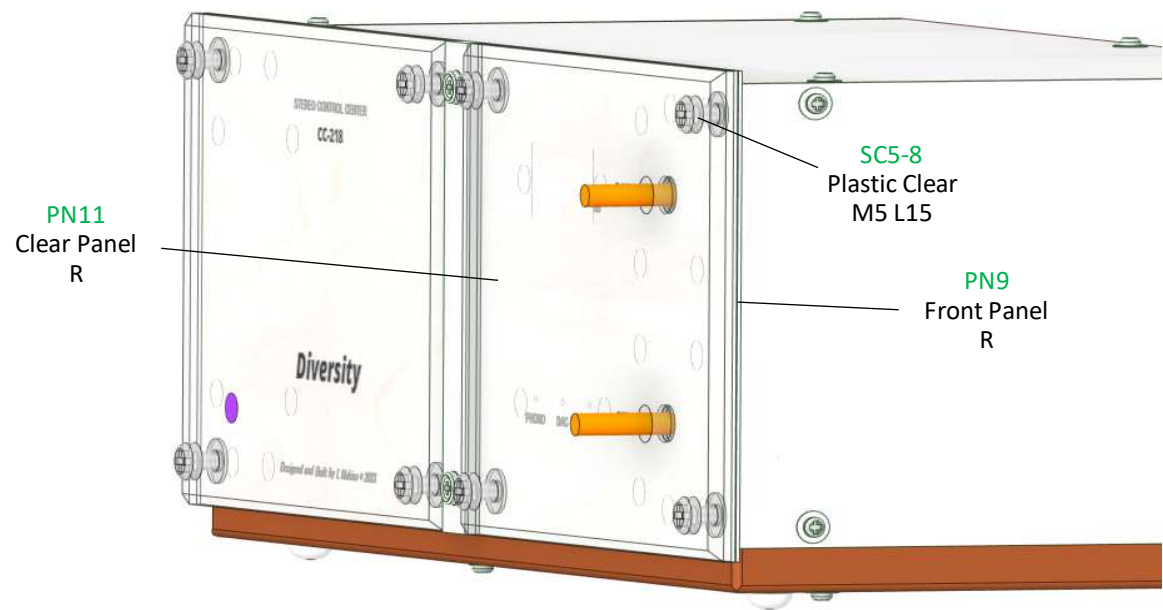
Fix WS5-8 on PN11 w/ double-sided adhesive tape.



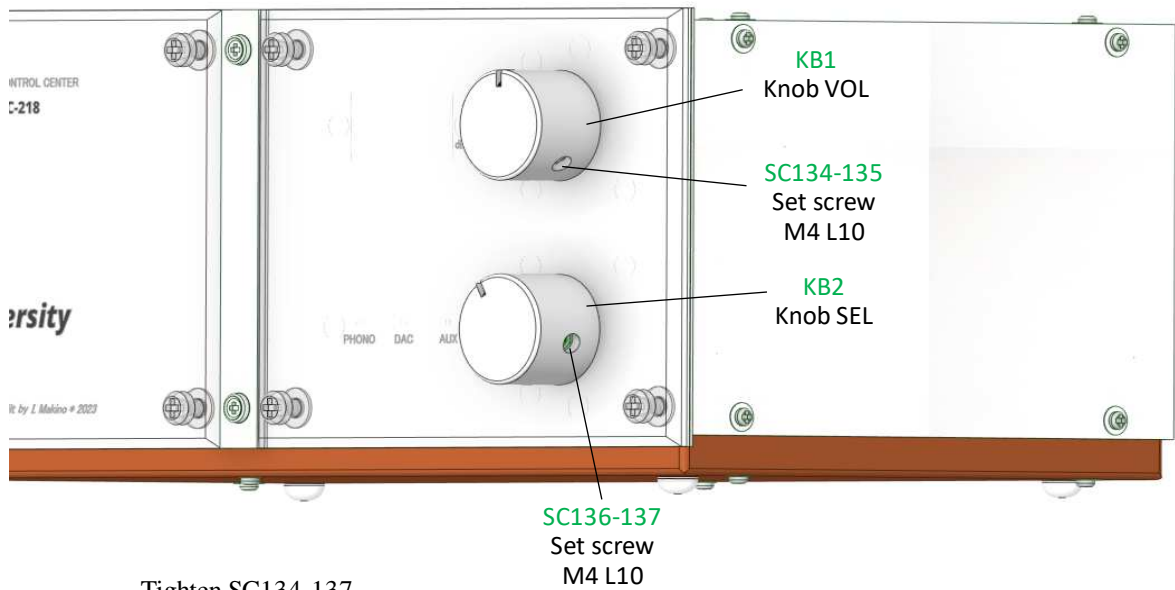
Attach Front Panel L.



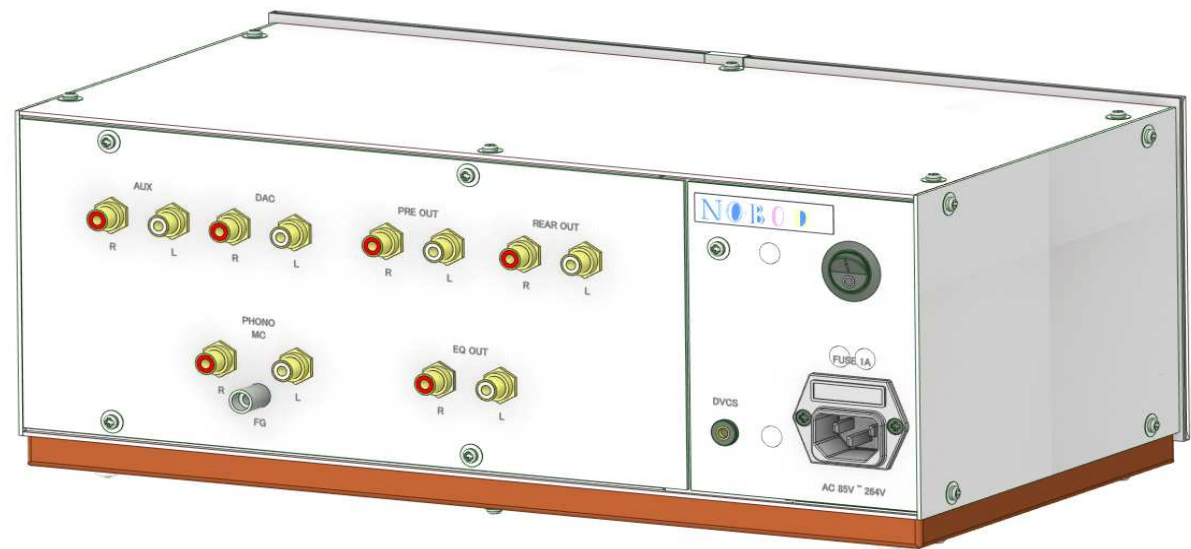
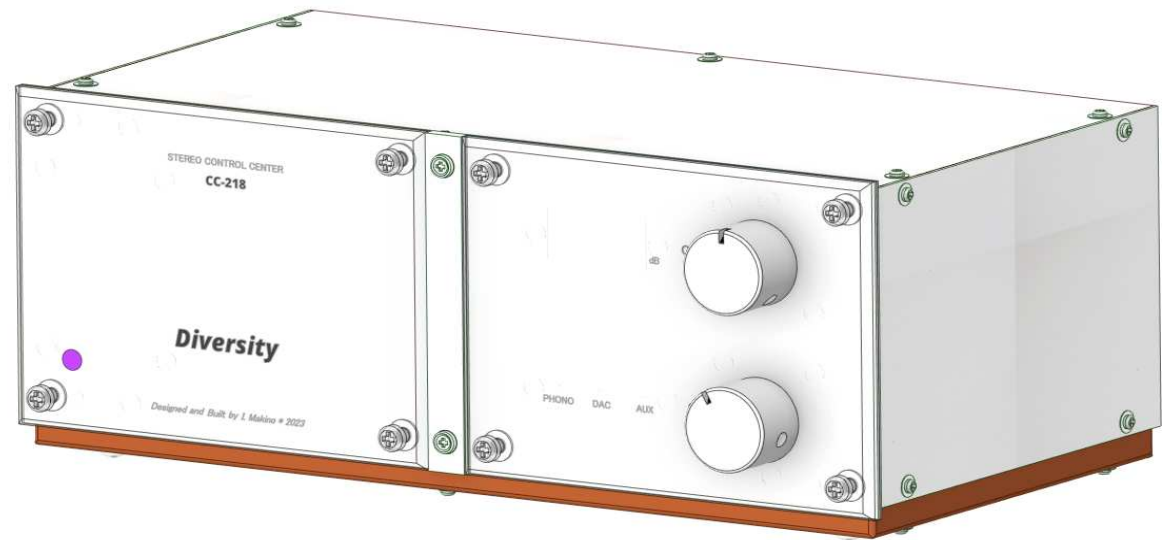
Attach Front Panel R.



Attach Knobs KB1-2.



Completed!



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