The CH02 is a sturdy steel and aluminum chassis designed specifically to house SCA modules.

Who Should Build This Kit?
The CH02 is not difficult to assemble, but it is not intended for absolute beginners. If you've never built an electronic project before, this is probably not the one to start with. To guarantee success, make sure you have:

- The ability to make basic voltage and resistance measurements using a digital multi-meter (DMM).
- At least a rudimentary understanding of voltage, current, and resistance.
- The patience to follow instructions precisely and work carefully.

Essential Tools
#1 Phillips screwdriver
3/32" Hex wrench (included)
7/64" Hex wrench (included)
Needle nose pliers
Small diagonal cutters

Highly Recommended Tools
Small heat gun

Work Area
Find a clean, flat, stable, well-lit surface on which to work. An anti-static mat is recommended for this project. If you're in a dry, static-prone environment, it's highly recommended. The importance of good lighting can't be overstated.

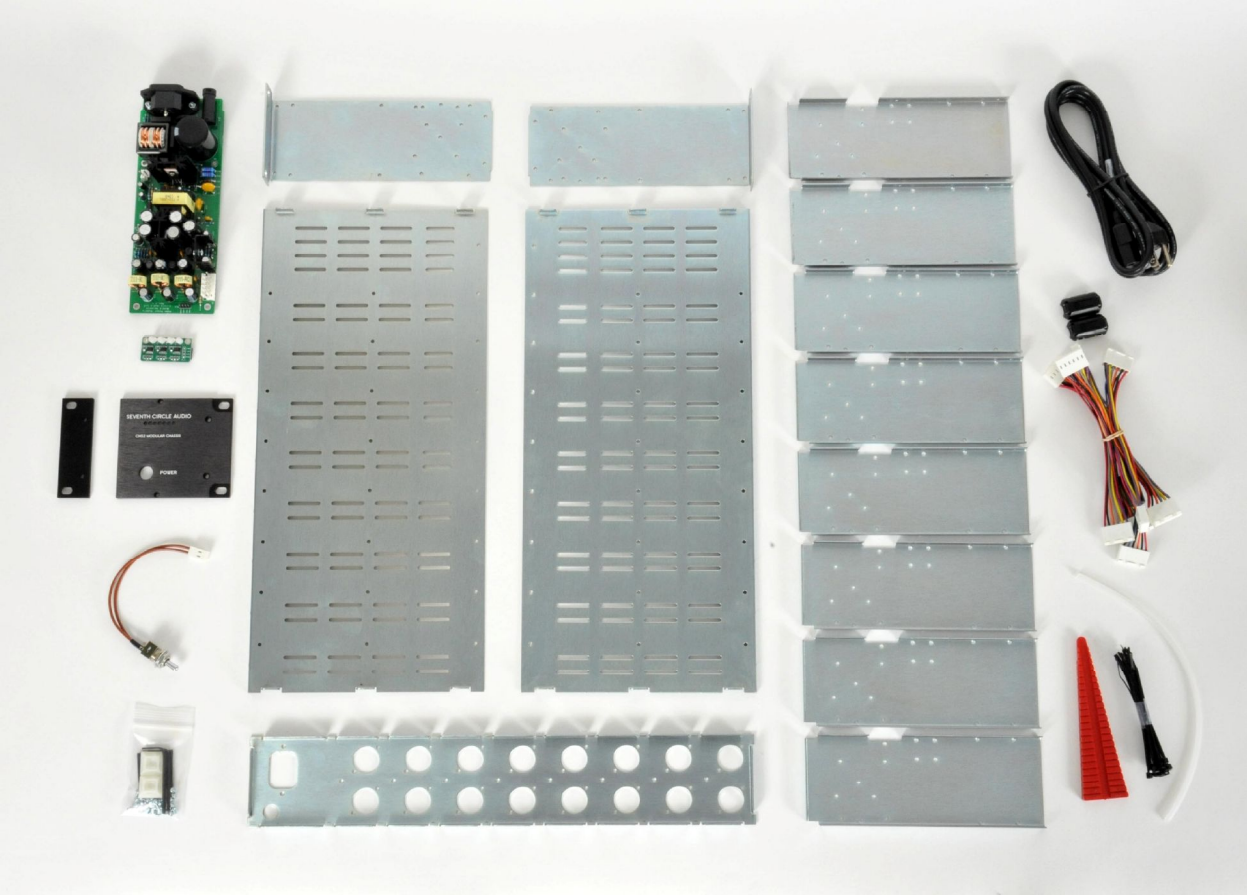
Instruction Conventions

Text in **orange** indicates a step where extra care needs to be taken. Doing it wrong isn't a disaster, but it'll need to be corrected.

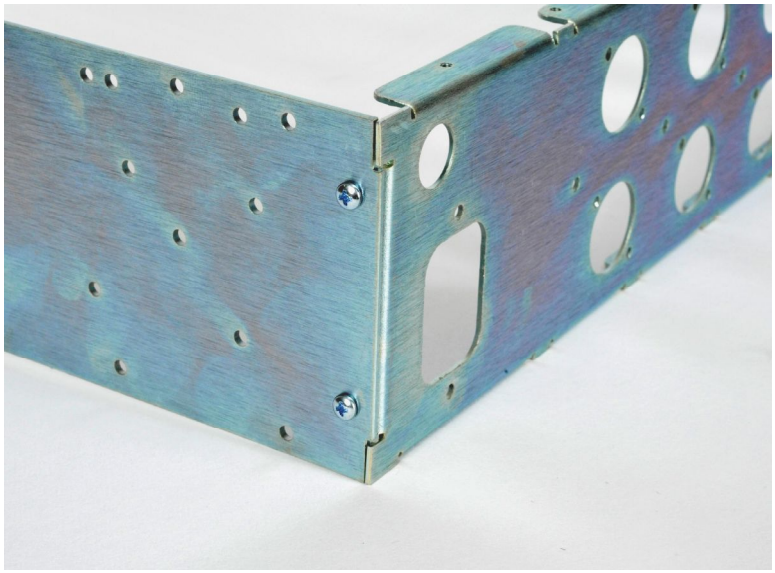
Text in **red** indicates a step that **must** be done correctly. Doing it wrong will guarantee improper operation, and probably damage components and/or the circuit board.

Assembly

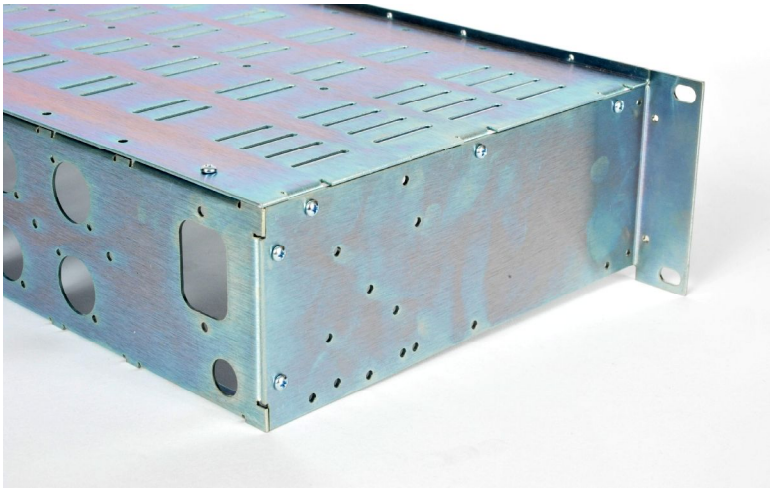
1. Before you begin, carefully unpack the kit and examine the parts. Check the contents of each small bag against the BOM to make sure all the parts have been included. If you think something's missing, please e-mail the details to sales@seventhcircleaudio.com and we'll ship replacement parts ASAP.



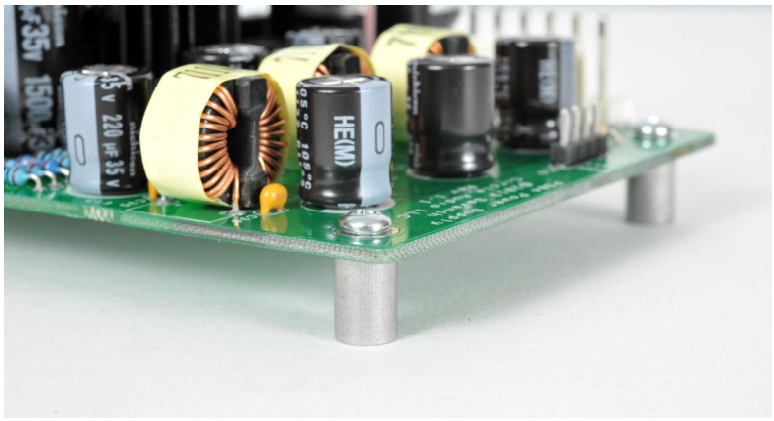
2. Use 2x #4-40 x 3/16" screws at each corner to attach the sides to the back as shown. Leave the screws loose at this point.



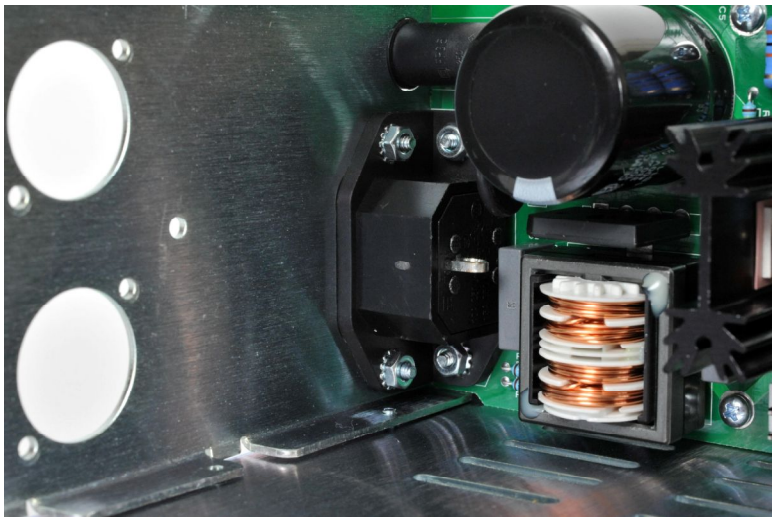
3. Use 3x #4-40 x 3/16” screws on each side to attach the bottom to the sides. Use a small adjustable wrench to straighten the tabs if required. Use 3x #4-40 x 3/16” screws to loosely secure the bottom to the back. Leave the screws loose at this point.



4. Attach 4x standoffs to the power supply using #4-40 x 3/16” screws as shown. Leave the screws loose at this point.

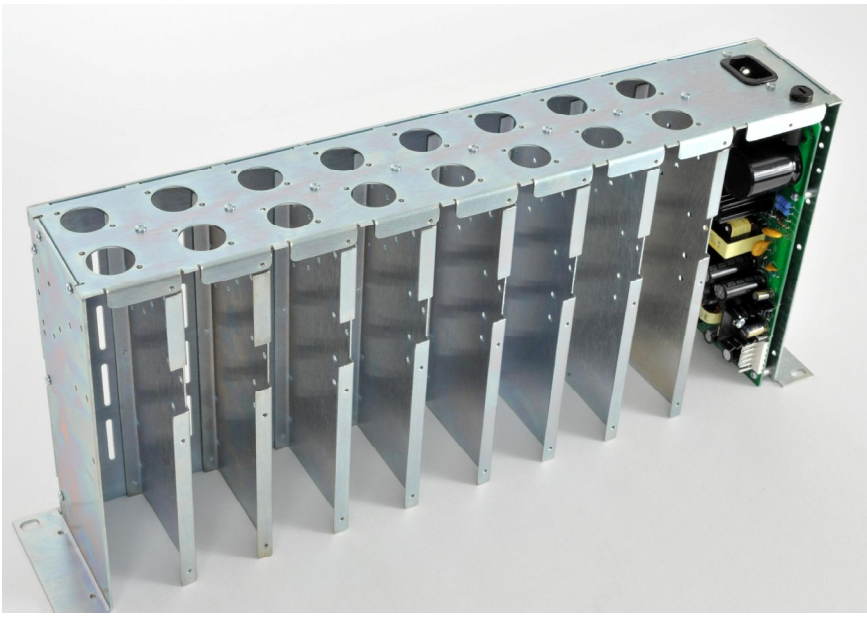


5. Use two #4-40 x 3/8” screws and keps nuts to secure the power connector.

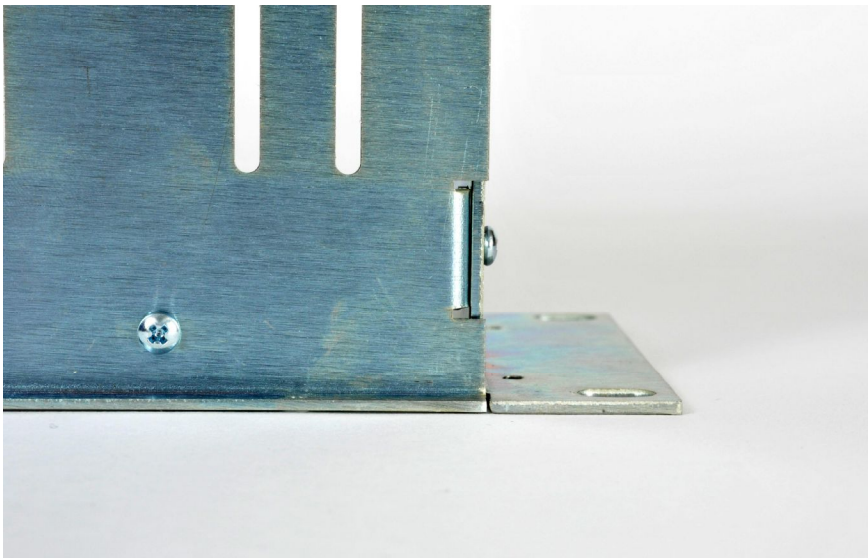


6. Install 4x #4-40 x 3/16” screws to secure the power supply. Leave the screws loose at this point.

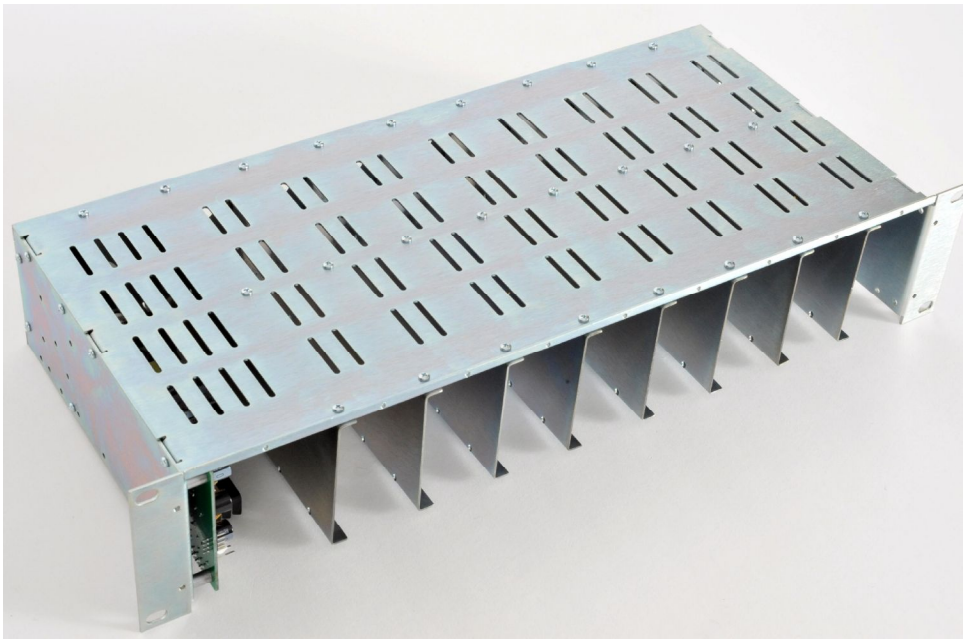
7. Use 2x #4-40 x 1/8” screws to attach each divider to the chassis. Use one in back and one on the bottom. Leave the screws loose at this point.



8. Make sure that the front flanges of the bottom and sides are flush with the bench as shown. Snug all of the screws installed so far, but **do not over-tighten them.**

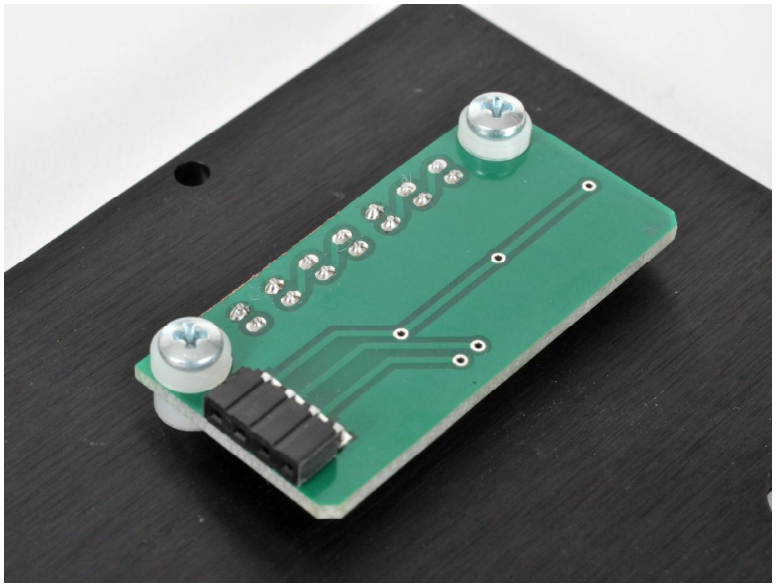


9. Install the rest of the screws in the bottom as shown. Use #4-40 x 1/8” screws for the dividers and #4-40 x 3/16” screws for the back and sides.

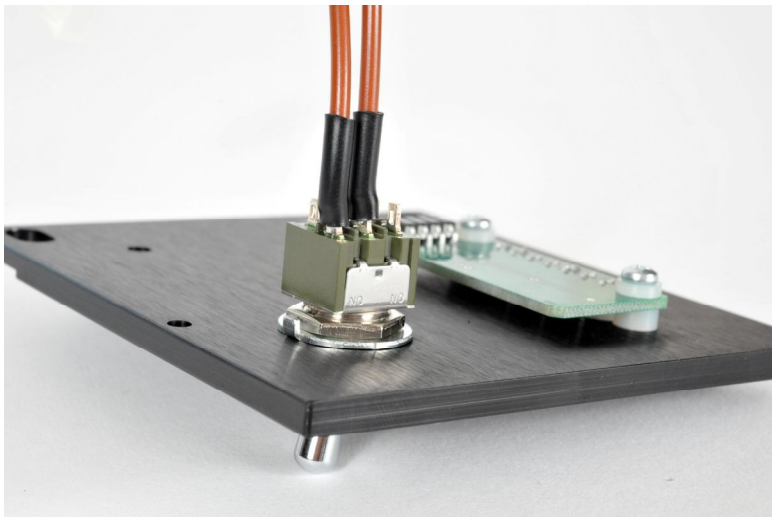


10. Fit a 1/16” washer over each of the remaining #4-40 x 3/8” screws.

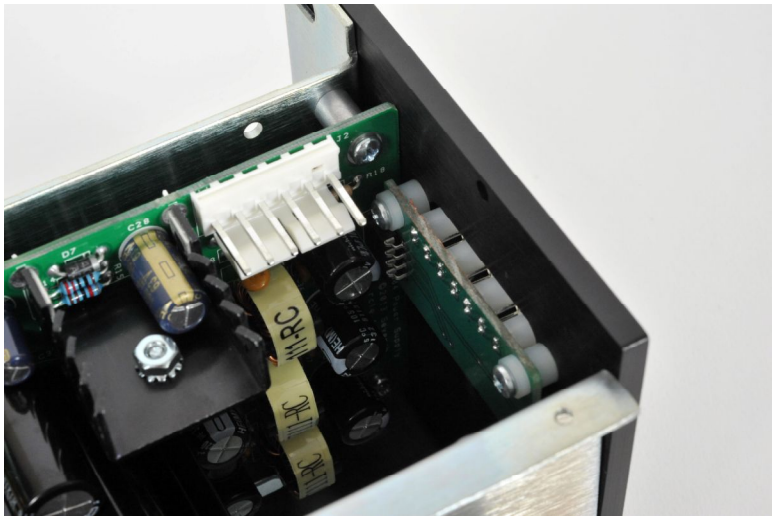
11. Install the voltage monitor board to the rear of the front panel. Use 2x 1/8” nylon spacers between the front panel and circuit board. Do not over-tighten the screws.



12. Install the power switch to the front panel. Note the orientation of the locking tab.

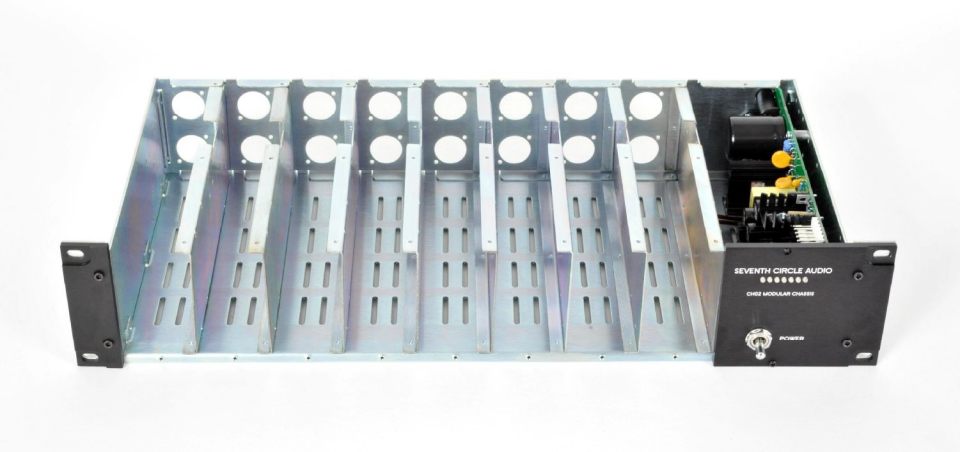


13. Carefully slide the front panel into place so the voltage monitor plugs into the header on the PS04. Use 2x #6-32 x ¼" socket head screws to secure the panel. Plug the power switch connector into the PS04.

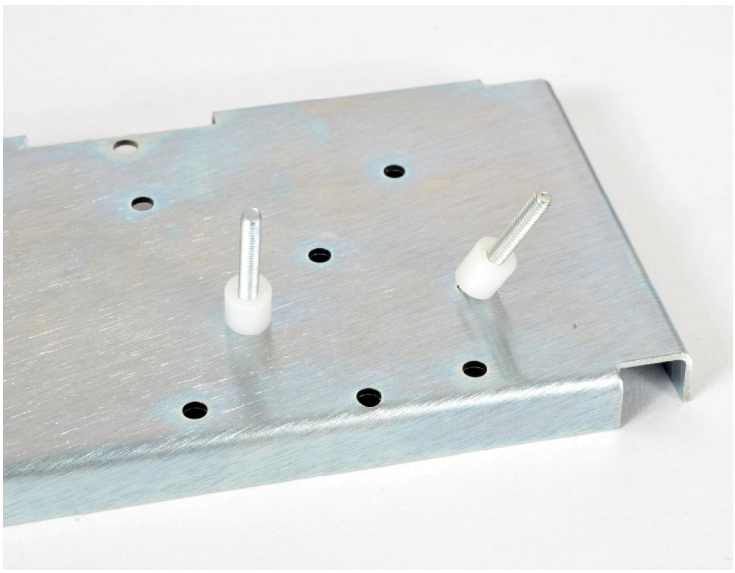


14. Use 2x #6-32 x ¼" socket head screws to attach the left rack ear to the chassis.

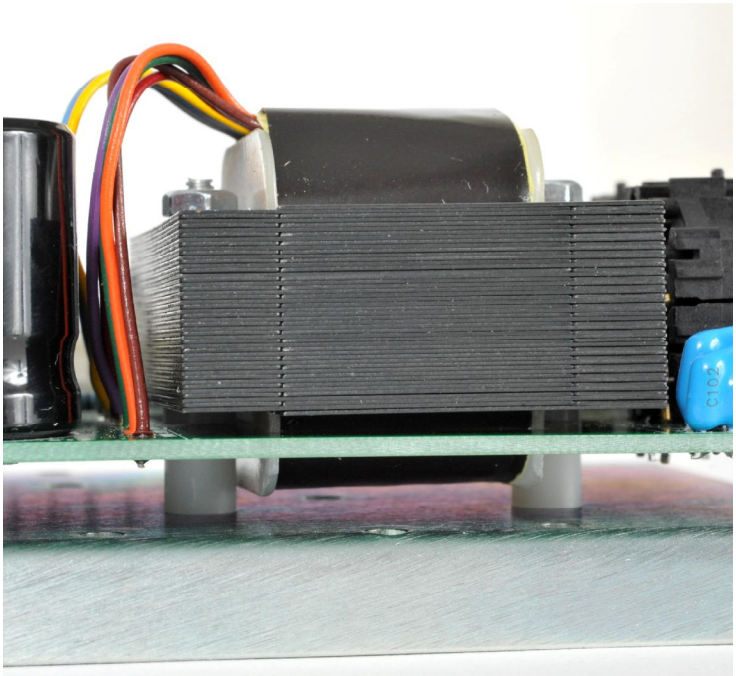
15. Your CH02 should look like this. Now for the modules…



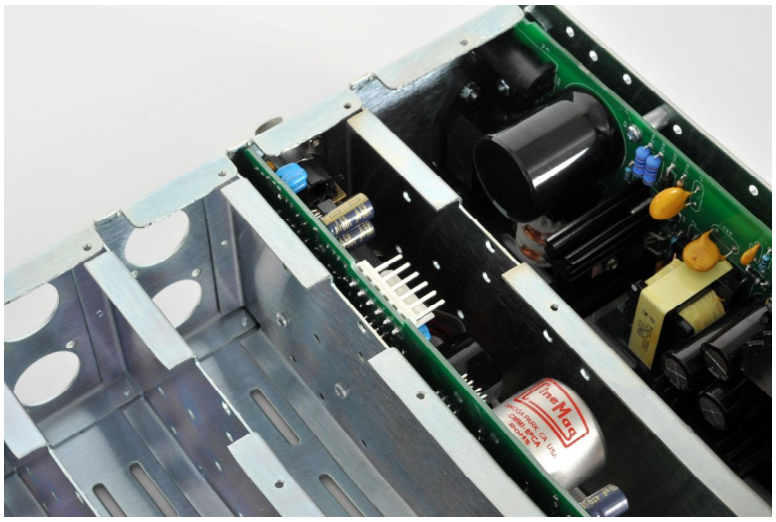
16. We recommend that any module with an output transformer be secured to a divider. Use the longer set of #4-40 machine screws included with the kit, or any #4-40 screws that are ¼" longer than the screws originally supplied. Run the screws through the divider and install ¼" nylon spacers on each.



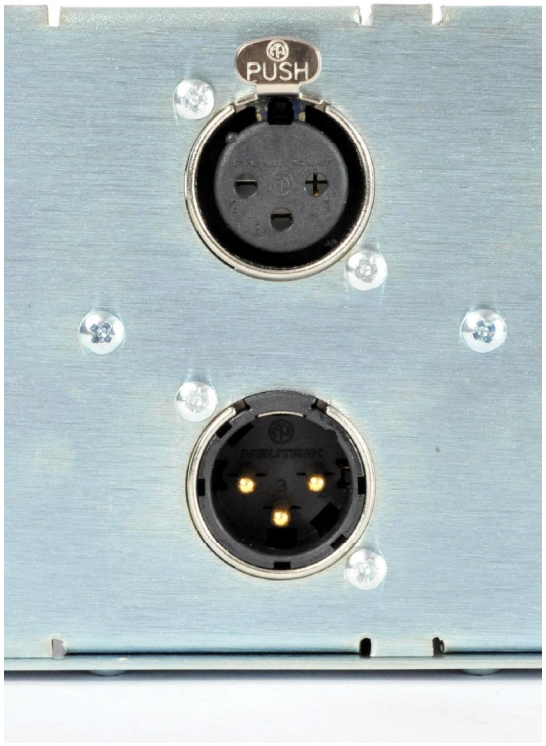
17. Drop the module over the screws and secure with nuts as shown. Don't forget any spacers required between the transformer and circuit board. Leave the nuts a bit loose at this point.

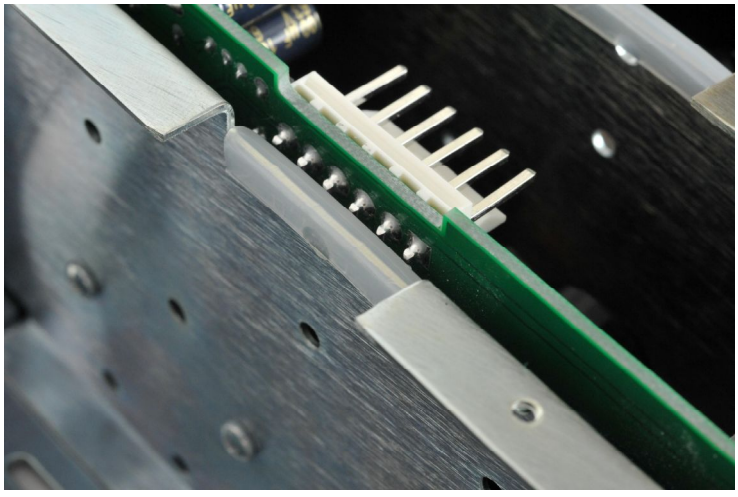


18. Carefully maneuver the module and divider into the chassis.



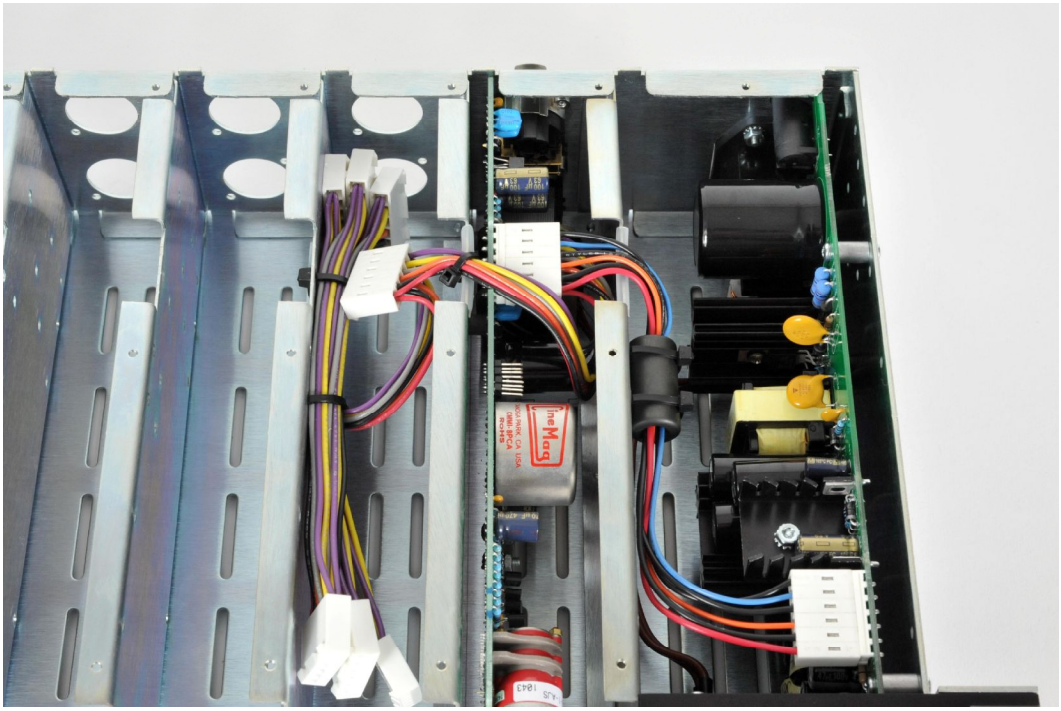
19. Use the 4x M2.5x6 self-tapping screws included with the module to secure the XLR connectors at the back of the chassis. Use #4-40 x 1/8” screws to secure the divider to the chassis.





20. Install 1 1/8” of flexible grommet along the top edge of the divider cutouts.

21. Install the WH02 wiring harness. Use wire tires to secure the ferrite and any extra power connectors to the dividers.

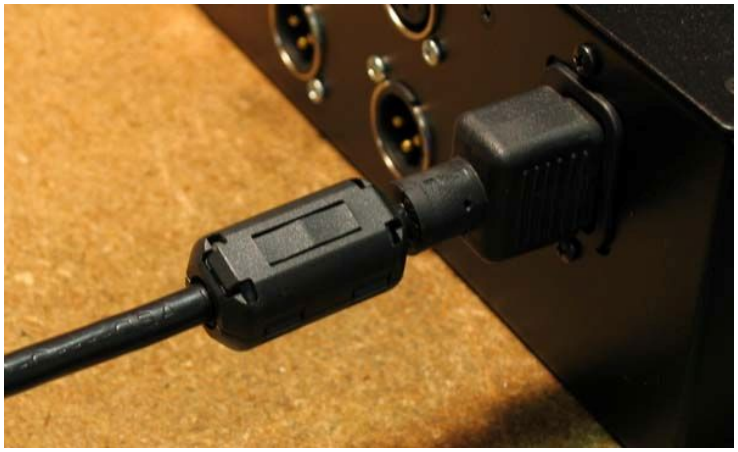


22. Use #4-40 screws to attach the top. Use 3/16” screws along the sides and back, 1/8” for the dividers. **Do not over-tighten the screws.**

23. Install module subpanels using the panel nuts included with the module. Use #4-40 x ¼" socket head screws to secure the subpanel to the chassis.

24. Install knobs and any blank subpanels.

25. Attach the clamp-on ferrite to the AC line cord as shown.



26. Congratulations! You've got an assembled preamp.