

## McIntosh Multi-Section Can Capacitor Replacement Kit (066-095-PAE)

Used in MC2100, MC2105, MC2300

ProAudio Electronics [www.proaudioe.com](http://www.proaudioe.com)

Thank you for your order! This kit is designed to replace the original GE multi-section can capacitors used in the McIntosh MC2100, MC2105, and MC2300 amplifiers. The original capacitors are stamped with the McIntosh part number **066-095**. High quality, genuine Nichicon capacitors are used to help ensure a long operational lifespan, and a custom PCB with thick 2 oz. copper provides a robust and elegant mounting solution. The table below lists the original capacitor values and their replacements:

Original Symbols*	Original Value	Replacement Value
Half-circle	80uF 200V	82uF 200V
Square	80uF 200V	82uF 200V
Triangle	150uF 150V	150uF 160V
Dash	50uF 150V	56uF 160V

*\*Note: Symbols on the replacement PCB were arranged based on the orientation of the original can in an MC2300, so they may not align with all models this can was used in. The MC2100, for example, has the can oriented differently than the MC2300.*

**Installing this kit will require soldering, drilling out the original can's mounting rivets, and stripping/attaching wires in a tight space. If you do not have prior experience safely testing and repairing amplifiers at the component level, please have a qualified professional install this kit in your unit.**

**This replacement kit includes the following parts:**

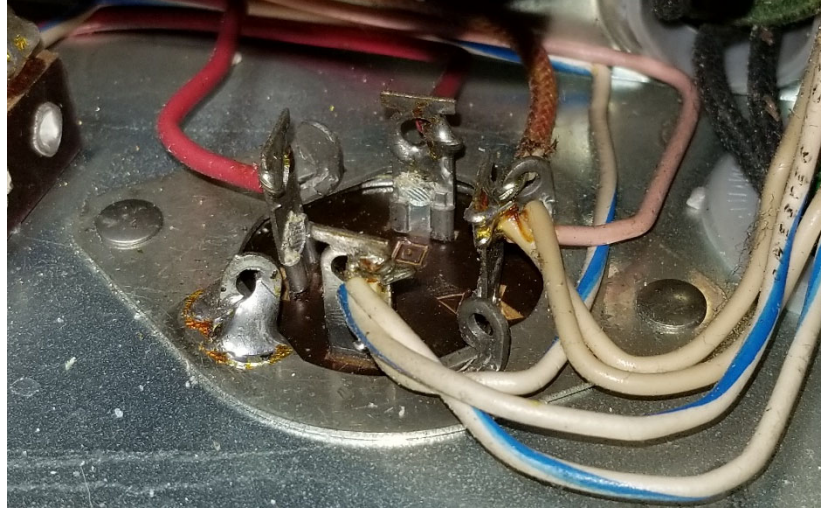
- 4 x Nichicon electrolytic capacitors
- 1 x Capacitor mounting PCB
- 1 x Capacitor spacer PCB
- 4 x Wiring turrets
- 1 x Mounting hardware set:
  - 2 x #6-32 3/8" machine screw
  - 2 x #6-32 hex nut with external tooth lock washer
  - 2 x #6 internal tooth lock washer
  - 1 x #6 solder lug with internal teeth



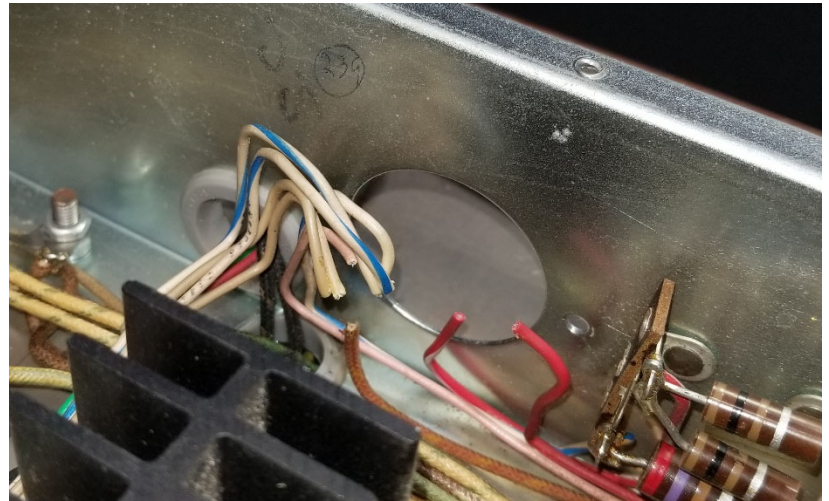
## Install Guide

*Photos are from an MC2100 installation*

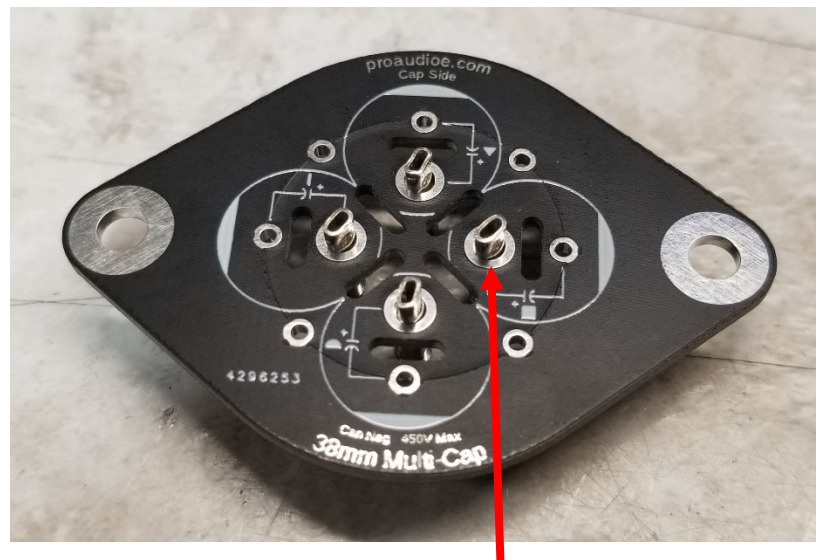
1. **Take pictures or make diagrams of your original can installation.** Make note of the number of wires attached to each tab, their color codes, and the capacitor symbol associated with each tab (square, triangle, half-circle, dash).



2. Cut the wires off of the original can as close to the tabs as possible so you have enough wire length to work with.
3. Drill out the rivets mounting the original can and remove it. Clean up any metal shavings left behind. Make sure the included #6-32 machine screws fit through the rivet holes.



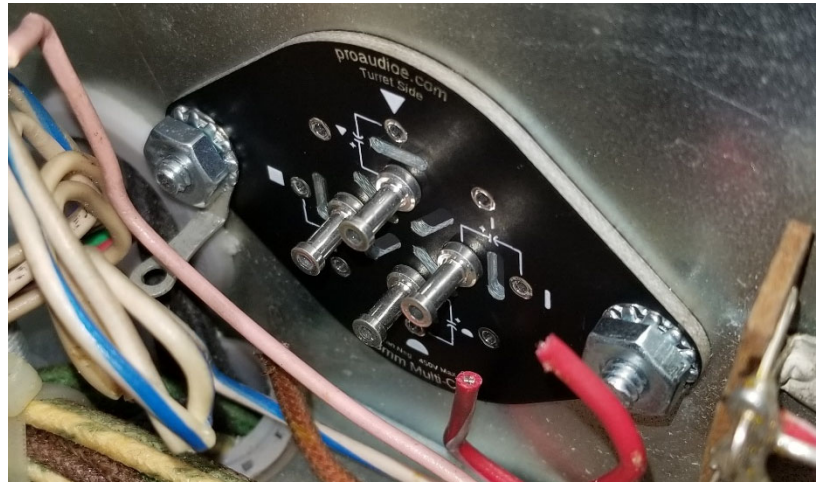
4. Insert the four wiring turrets in the capacitor PCB so the taller end is sitting on the "Turret Side." Flip the PCB over.
5. Using flat nose pliers, **gently** squeeze the bottom of each turret on the "Cap Side" **just enough** so that they are mechanically secure but **still have an opening for the capacitor positive leads to stick through.** **Do not crimp the turrets excessively or else the cap positive leads will not fit!**
6. Test fit each capacitor to make sure the positive leads can fit through the turrets comfortably.
7. Solder the turrets in place on the "Cap Side." Be careful not to fill them with solder.



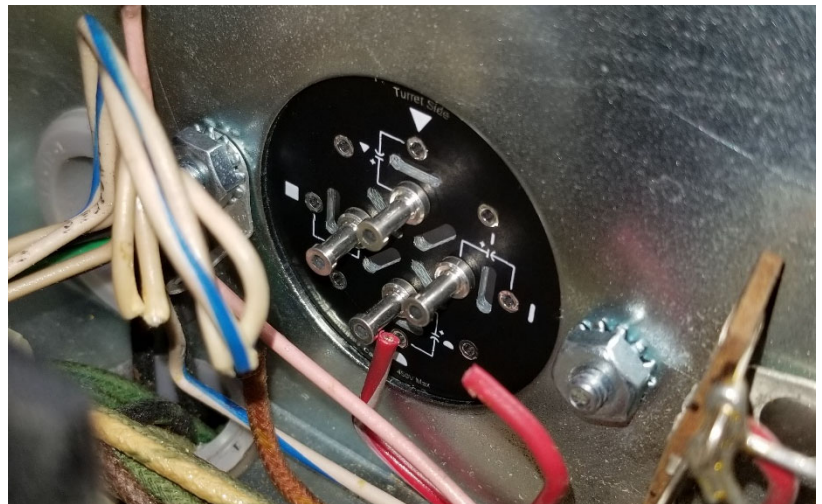
*Turrets are squeezed just enough so they are secure, but still have a hole through the center for the positive cap leads to enter.*



8. Test fit the capacitor PCB in your unit. It can mount with either the capacitors or the turrets going through the hole in the chassis.



Choose whichever configuration works best for the amount of space you have available. Since this board is intended to be chassis grounded, only the four center turrets (i.e. the positive leads of each cap) will possess a high voltage with respect to chassis ground.



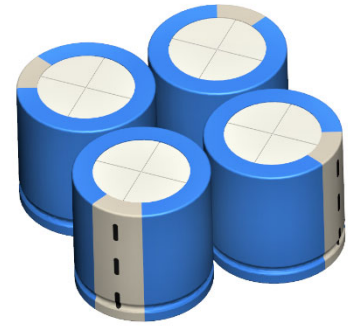
9. Peel the tape off the positive cap leads to prepare them for installation. **Do not cut the positive leads flush with the tape or else they may not be long enough to stick through the wiring turrets.**

If your caps shipped in bulk (without tape), skip this step.



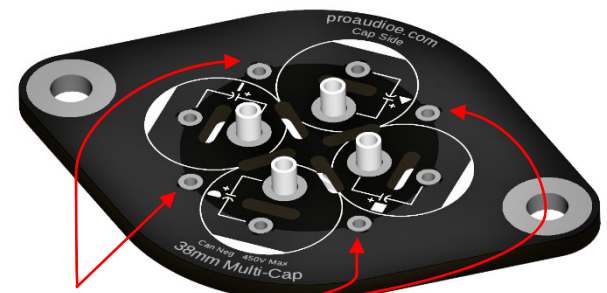
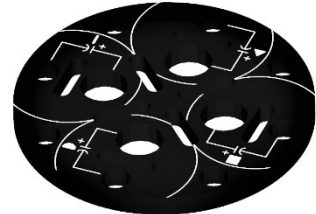
*Peel tape off positive leads. Do not cut them.*

- 10.** Install each cap on the capacitor PCB with a spacer PCB sandwiched between them. **The positive lead of each cap goes through the center of its corresponding turret.**
- 11.** **Double check your original pictures/diagrams to make sure you have the right caps in the right spots.** The orientation of the symbols on the capacitor PCB may not match all original installations due to how the original cans could be rotated before use.



Use the table below to “re-map” your symbols as needed:

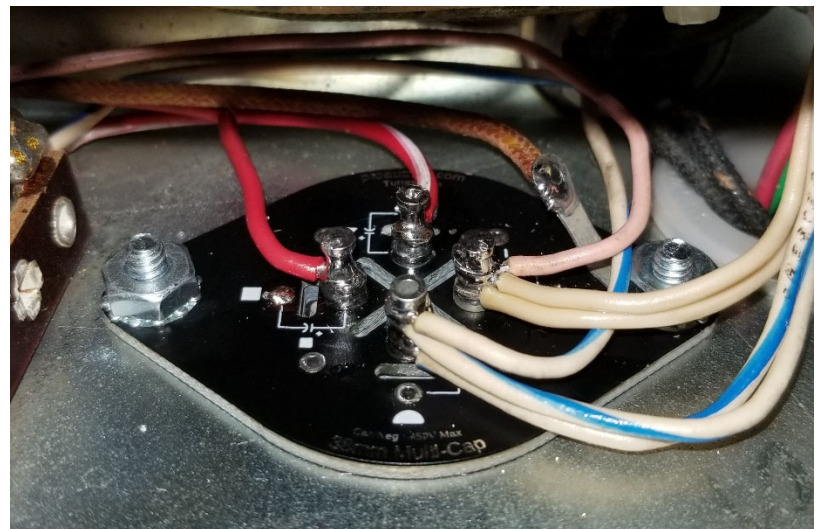
Original Symbols	New Symbols	Replacement Value
Half-circle		82uF 200V
Square		82uF 200V
Triangle		150uF 160V
Dash		56uF 160V



*Extra ground pads*

- 12.** After double checking the position of each cap, solder them in place. Make sure the positive leads are bent over the turret and make a direct metal-to-metal connection.
- 13.** Mount the PCB in the unit and complete the chassis wiring. Stripping the wires back about 1/4” will provide enough length to wrap around the turret once.

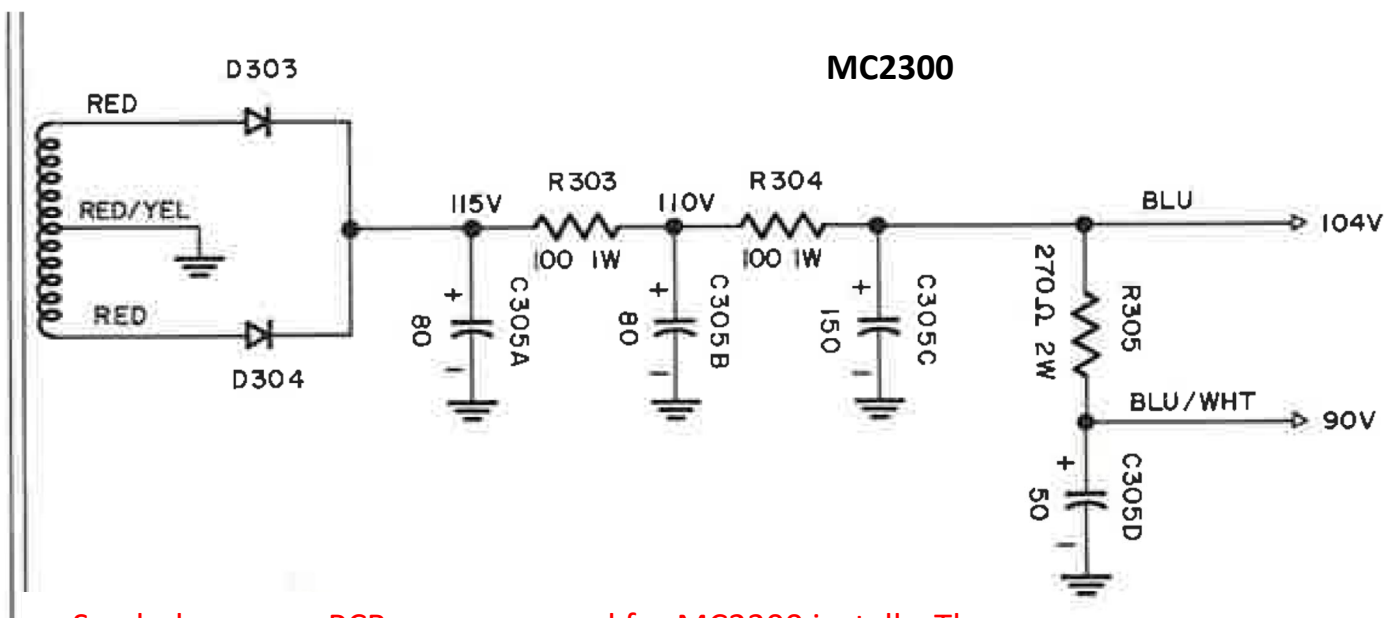
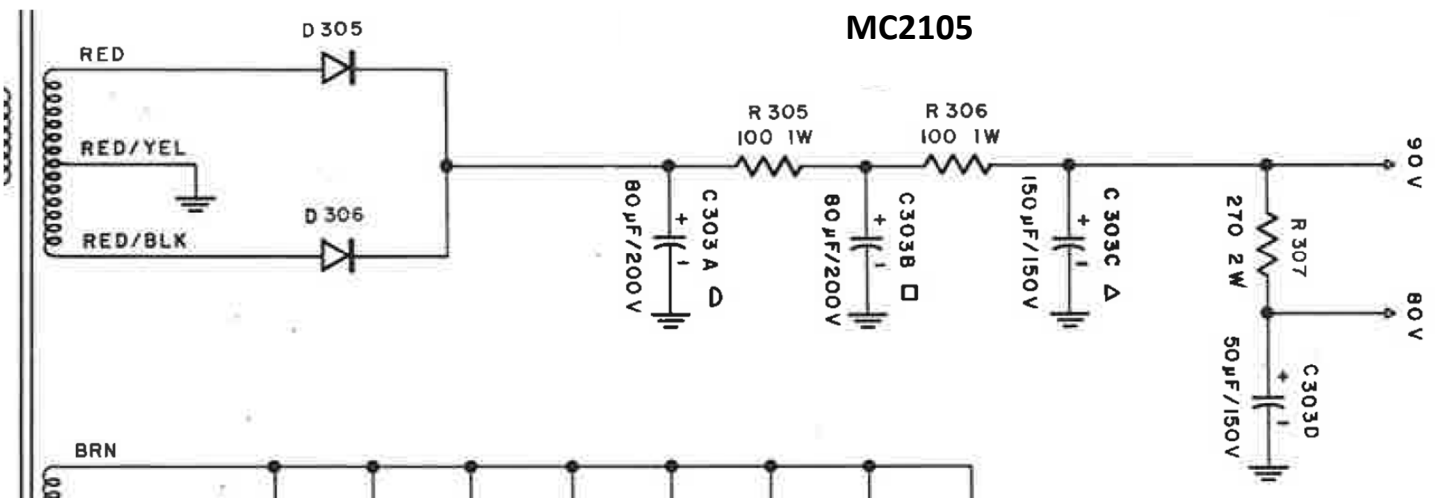
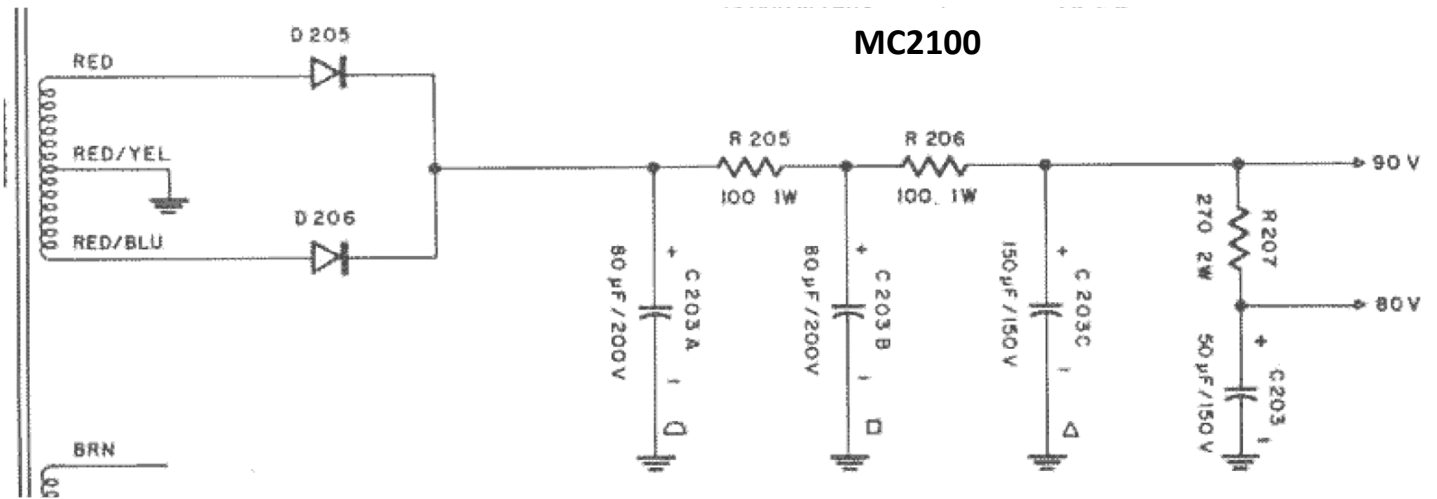
Using the included hardware with tooth lock washers will help ensure a solid electrical connection between the PCB and chassis ground.



The four extra pads along the outside ring of the PCB are extra chassis ground tie-points, convenient for attaching additional components or wires.

- 14. Triple check your work.** We recommend powering your unit up through a “dim bulb tester” (essentially a line current limiter) while doing your initial testing.

**Enjoy!**



Symbols on new PCB were arranged for MC2300 installs. They may not align with the original can in the MC2100 and MC2105.