

Counterpoint SA-100 SA-12 Lateral MOSFET Output Stage

Notes:

1. Resistors R13 and R60 (not shown) are removed and replaced with 0 Ohm resistors.
2. Resistor R61 (not shown) is removed.
3. The vbe multiplier (Q?, [not shown] whose emitter connects to R60) has been removed and a 4.7uf 100V capacitor (C100) placed in the holes where the collector (pos lead) and emitter (neg lead) were.
4. VR1 should be a multturn potentiometer, 25K ohms, wired as a rheostat between R14 and R15. The new potentiometer should fit the existing VR1 holes.
5. Pay attention to the pinouts of the lateral MOSFETS as they are different than the vertical MOSFETs they replace.
6. Capacitors CS1 and CS2 MUST be installed to prevent MHz oscillation of the output devices.
7. TP100 is a 1 Ohm 5W wire wound soldered to a blown AGC fuse. Use a voltmeter to measure the voltage drop across this resistor to set the bias - your reading in mV will equal the current in mA.
Set bias to 250 milliamps per chanel. Remove the resistor and replace with the correct fuse when finished.
8. Set the DC offset to +/- 0 mv. You may need to reset the bias and reset the offset a few times to find the balance.

This is not an exact drawing of the output stage - relays & local filters/bypass are not drawn.

There are also parts that may be unnecessary such as the protection diodes D1, D2, D4 & D5 or the Zobel network at the output - remove at your discretion.

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