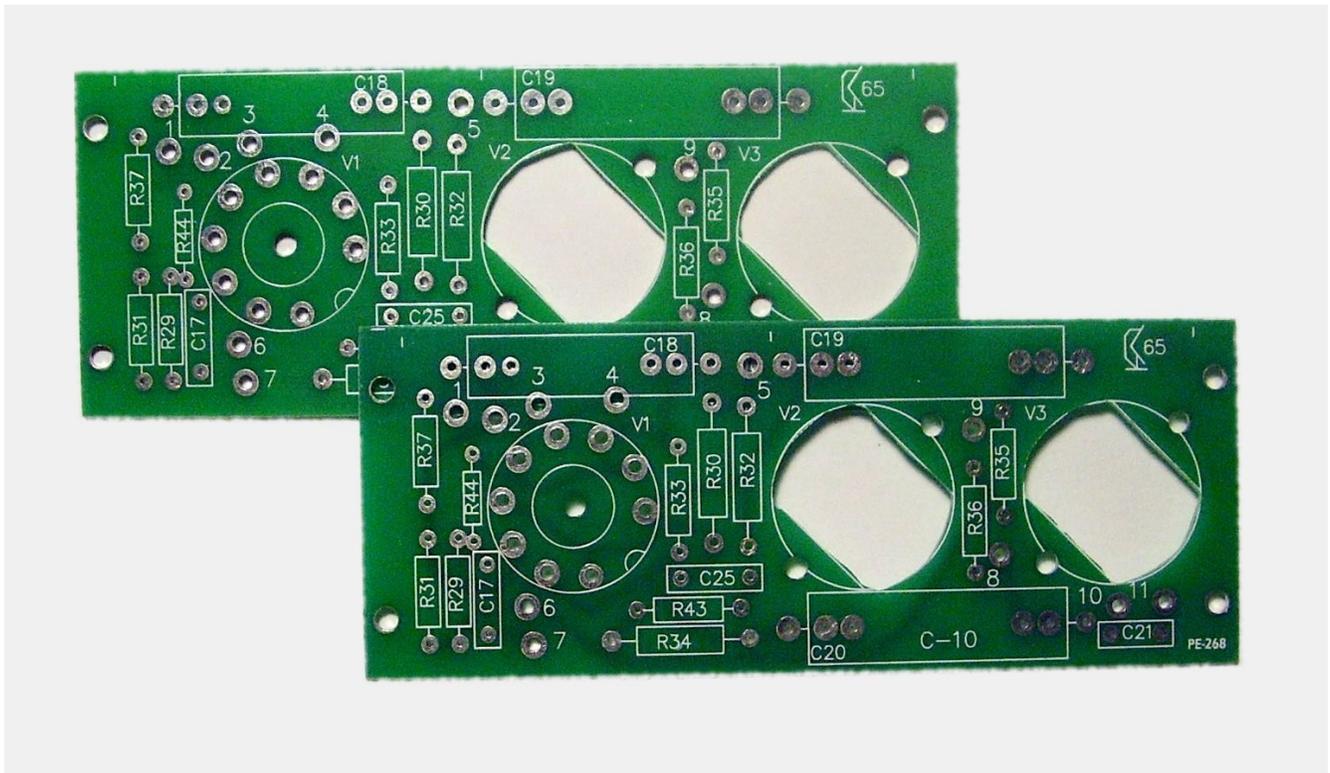


Amplifier PCB

For The

Dynaco[®] SCA-35

For Use With the 6GH8A Driver Tube

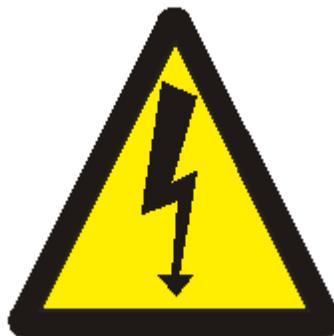


Classic Valve Design



Classic Valve Design assumes no responsibility for circuit or user damage from the use or misuse of these boards or any other product. We simply provide these on an AS-IS basis with workmanship quality as the only thing guaranteed at this time.

This product is designed for and use around **LETHAL VOLTAGES**. We assume the user has a reasonably competent grasp of line operated electronics at the time of sale.



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The Dynaco® SCA-35 amplifier is a wonderful integrated amplifier that still finds popularity today with vintage tube amplifier enthusiasts.

Using the popular 6BQ5/EL84 output tubes, it has a smooth, warm sound that these high transconductance tubes are known for. However, as with most Dynaco® designs, it uses the relatively rare and rather expensive 7199 tube.

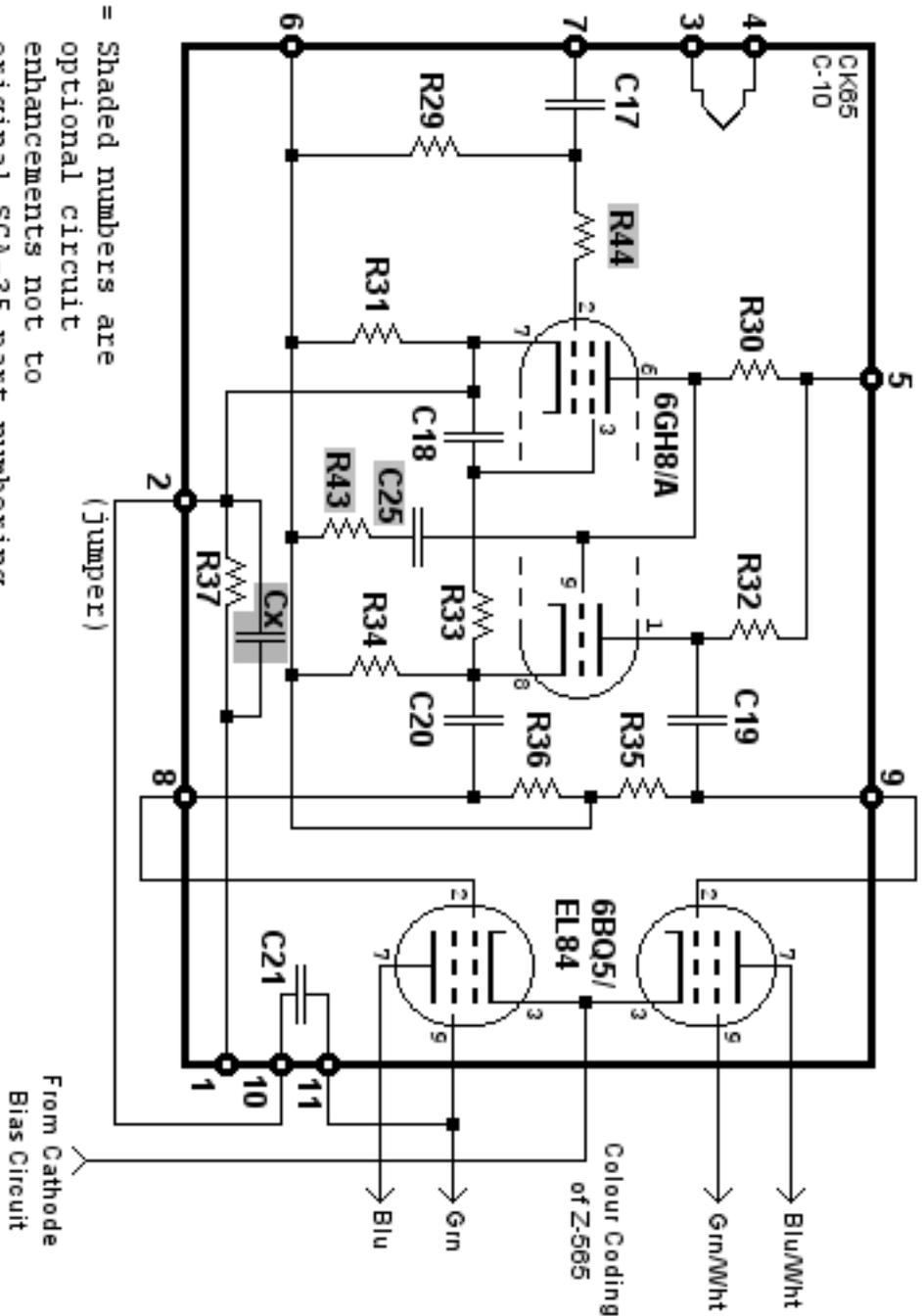
As many Dynaco® enthusiasts have discovered, the common and inexpensive 6GH8A is an electrical equivalent, but requiring a different pin out. These boards allow you to use the 6GH8A without modification of the PCB.

For the advanced modifier/upgrade, a few extra component pads have been provided, such as for a grid snubber on the 6GH8A pentode grid #1 (which reduces the chance of parasitic oscillations) as well as pole zero (PZ) compensation on the anode (if you don't know what this is, ignore it).

Part numbers for stock components as well as the off-board pin numbers on the PCB follow the original SCA-35 assembly manual for least confusion.

Revision Note 6-17-2013:

We have made a couple changes to the circuit that in our opinion really improve this circuit to function better with the 6GH8A tube - R37 is changed to 30K from 82K and tack a 150pF capacitor across it. That simple!



■ = Shaded numbers are
 optional circuit
 enhancements not to
 original SCA-35 part numbering

Parts List

(values in brackets are what we suggest for enhanced performance with full range drivers)

Resistors:

R29: 4.7 Meg, ½ watt (470K, ½ watt)

R30: 270K, 1 watt

R31: 560 ohms, ½ watt

R32: 22K, 1 watt

R33: 120K, ½ watt

R34: 27K, 1 watt

R35, R36: 470K, ½ watt (220K, ½ watt)

R37: 30K, ½ watt

R43: PZ compensation resistor, ½ watt

R44: 10K, ½ watt or jumper for stock

Capacitors:

C17: 100n, polypropylene film, 50V

C18: 100n, polypropylene film, 250V

C19, C20: 100n, polypropylene film, 450V

C21: 12p, Silver Mica (500V), Polystyrene (630V) or linear ceramic (1KV)

C25: PZ compensation capacitor, 450V

Cx: 150pF Silver Mica, Polystyrene or linear ceramic (tack solder across R37)

(using capacitors with higher voltage ratings, OK)

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