



Crimson 275 Power Supply

Bob Carver
CORPORATION

The output tubes are arranged in push-pull parallel, four in all. The screen grids are operated at approximately 340 Volts provided by a separate power supply formed by one-half of a voltage doubler supplying the plates with 685 Volts.

The power supply consists of a large power transformer, with energy storage that is far greater than necessary. AC filament voltage is biased to approximately 60 volts. Multiple decoupling filter sections are used with load regulation obtained through constant current loading.

Turn-on in-rush current limiting is provided by a thermistor, bias voltage adjustment by a bias control, and bias current is measured by a meter that simultaneously senses current for all four output tubes.

A tube fuse is mounted on the rear apron and provides protection for the output section in the event of a catastrophic vacuum tube failure. Additionally, a rear mounted power line fuse provides overall protection for the amplifier.



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Crimson 275 Amplifier Schematic

