

Permanent Cure for the NC-300 Filament Regulator

The oscillator heater in the NC-300 is fed from a 12 volt tap on the power transformer through an Amperite current regulator. These work very well but seem prone to quit at critical times. A 6V6 will be found in most 300's instead, as it will make the beast run, even if it won't regulate. The circuit shown was installed in a 300 belonging to W2NSD. C1 is at least 1000 μ f, at least 12 working volts. D1 was a shorted 2N301—or a good one . . . power transistors are fine low voltage diodes. D2 is a 1N1602 (International) or other 6.2 volt ten watt zener diode. If the stud goes to the anode in what you can get, turn the other diode and electrolytic around—mica washers are too fussy. For a 6AH6 R1 came out about 8 ohms 10 watts (10 in parallel with 40). The action would be better with about 2500 μ f and 8 ohms.

. . . W1OOP

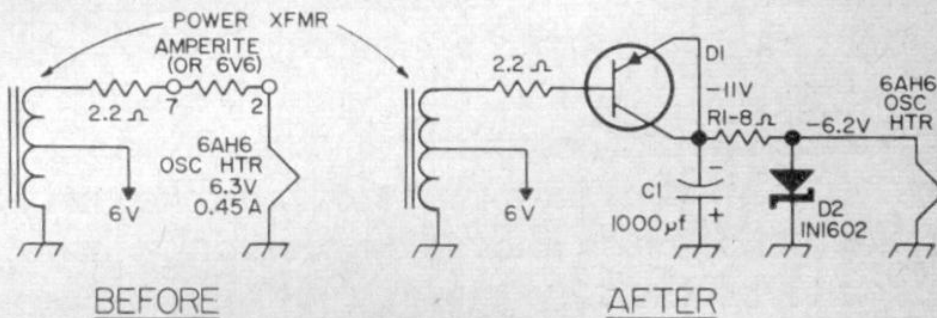


Fig. 1. A permanent cure for the NC-300 filament regulator's troubles.