

HEATHKIT DX-100 AUDIO MOD

Audio Mod

- 1) Replace cathode caps from pin 8 of the 12AX7 to gnd with a 220uf 35v electrolytic and 1uf 35v tantalum.
- 2) Replace 510pf coupling cap between pin 6 of the 12AX7 and the volume control with a .05uf 600v metalized polyester film.
- 3) Remove the 2uf cap from pin 3 of the 12AX7 to gnd. Pin 3 will be the point where negative feedback is injected. See [Figure 1](#)
- 4) Replace the .1uf supply decoupling caps with 10uf 450v electrolytic caps. (one is on the 47K dropping resistor and the other is on the 100K)
- 5) Replace the 510pf coupling cap between pin 1 of the 12AX7 and pin 2 of the 12BY7 with a .05uf 600v metalized polyester film.
- 6) Replace the 2uf cathode cap on pin 1 of the 12BY7 to gnd. with two caps. One 100uf 35v electrolytic and one 1uf 35v tantalum.
- 7) On the power supply side of the driver transformer primary, (labeled "M") add two .05uf 500v ceramic disc caps to gnd.
- 8) On the secondary center-tap of the driver transformer, add a 1000uf 100v electrolytic cap to gnd. (+ side to gnd.)
- 9) On the mod transformer where the primary center-tap and secondary hot side pick up +800v, add a .01uf 3kv ceramic disc cap to gnd.
- 10) On the mod transformer, replace the .02uf 1.5kv cap across the secondary with a .01uf 3kv ceramic disc.
- 11) Replace the .1uf decoupling cap on pin 3 of the 1625s to gnd with a .1uf 600v metalized polyester film.
- 12) From the 500ohm tap on the mod transformer to pin 3 of the 12AX7, build the circuit shown in figure-1 to apply the negative feedback.