The Wayback Machine - https://web.archive.org/web/20190227103242/http://home.earthlink.net:80/~kerrybradley/id11.html

Cheap Mods

Yamaha CS-01 Resonance Mod

Just to get this up here. I hope to make this clearer soon...

This shows how you can modify the Yamaha CS-01 Mk1 to:

1) have variable resonance control, by hijacking the Breath Control VCF potentiometer

a) remove the 10k resistor near the VCF chip.

b) cut the traces (or lift the pins) of the Breath Control VCF pot that connect it to GND and the Breath Control jack. I lifted the pins just to avoid cu

c) remove the 39k resistor tied to the wiper of the VCF pot.

d) solder wires from one side of the pot and the pot wiper and run these wires over to the holes that used to contain the 10k resistor near the VCF

e) I'd suggest adjusting the resonance trimmer that's near the VCF chip to make your new Resonance control self-oscillate near the end of the ro you analog control of the resonance, they used a different 24dB VCF chip.

2) have variable VCA "drone" by hijacking the Breath Control VCA potentiometer.

a) remove the 1k resistor that grounds usually-closed terminal of the breath control jack to GND

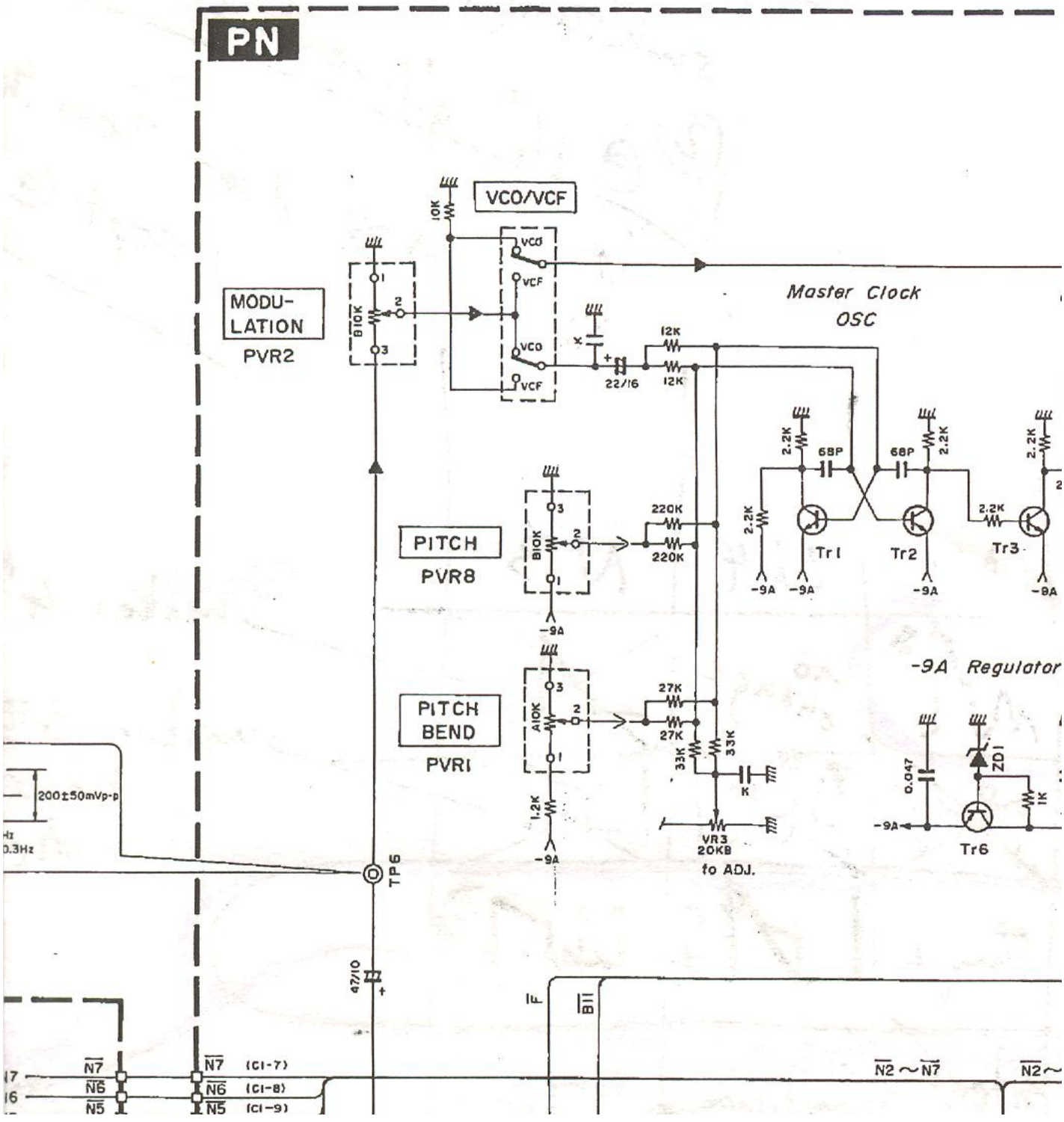
b) solder a 47k resistor from the ungrounded, non-wiper terminal of the pot to -9V.

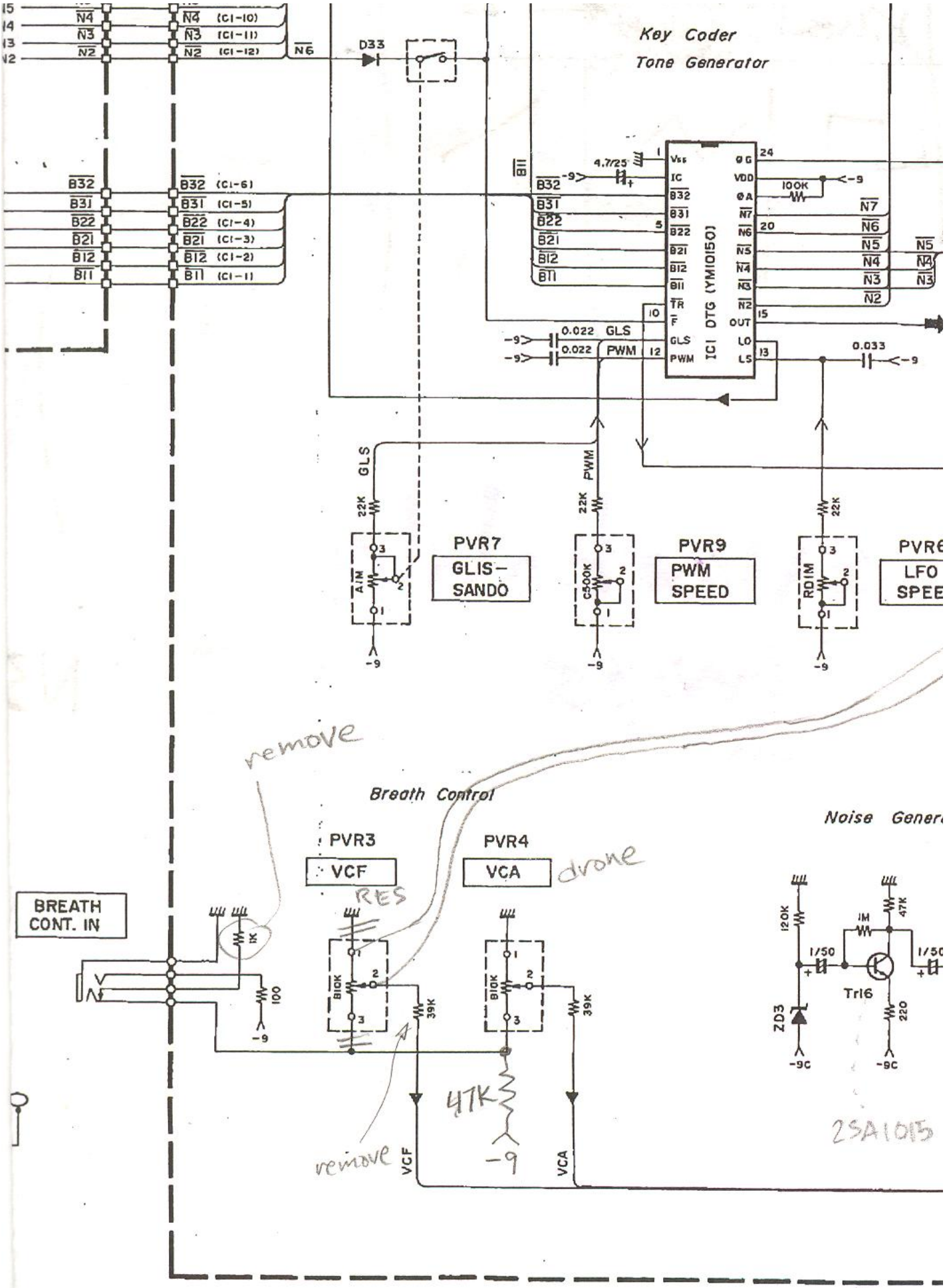
c) when the VCA drone pot is now fully on, you'll always get a DCO-VCF signal running to the power amp. this mod keeps the VCA only partially on (basically, I don't know the max CV that the VCA chip can tolerate). so if you just use the drone, you'll have to increase the volume at the pow

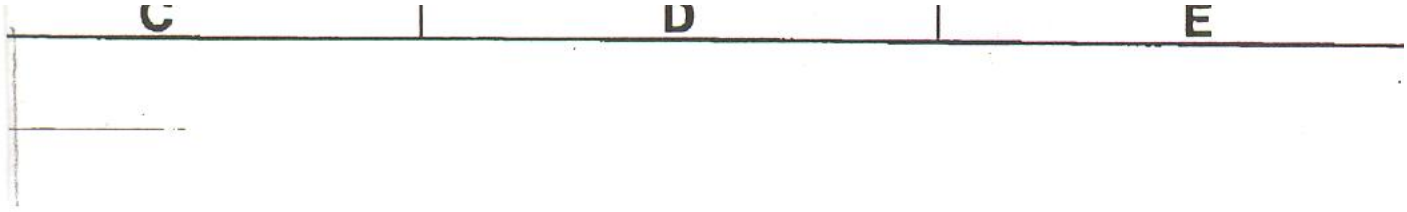
Sorry I don't have actual pics of the mod up! Perhaps someday soon...

C | D | E

CS01 OVERA




Key Coder
Tone Generator
D33
IC1 DTG (YM1015O)
4.7/25
100K
0.022 GLS
0.022 PWM
0.033
22K GLS
22K PWM
22K
PVR7
GLIS-SANDO
PVR9
PWM SPEED
PVR6
LFO SPEE
remove
Breath Control
Noise Gener
PVR3
VCF
PVR4
VCA
drone
RES
BREATH CONT. IN
1K
100
B10K
39K
47K
VCF
VCA
120K
1M
47K
1/50
Tr16
ZD3
220
2SA1015



Here's the video I made of the modded CS-01:

http://www.youtube.com/watch?v=C2hpcBVtQwo