

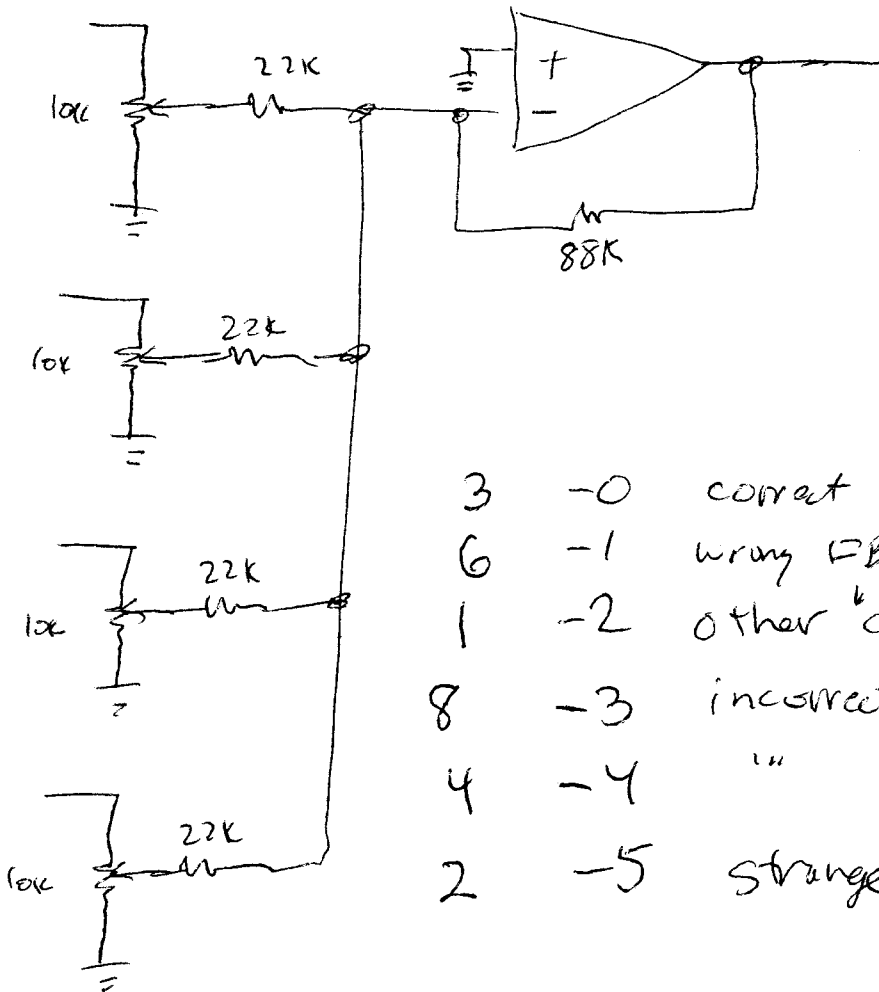
Name

Key

You are still working for the Big Sound Company. They need a cheap mixer with the following specs:

1. Unity gain, when the fader is set for 12 dB loss.
2. Only one op-amp.
3. The faders are 10k, and require a 22k load.
4. Four inputs, all unbalanced, driving the fader directly.
5. DC coupled. (no coupling capacitors)

This means your amplifier will need 12 dB gain.
Design the mixer.



- | | | |
|---|----|--------------------------------------|
| 3 | -0 | correct |
| 6 | -1 | wrong FB resistor |
| 1 | -2 | other "correct" topology? → strange. |
| 8 | -3 | incorrect but believable topology |
| 4 | -4 | " positive feedback? |
| 2 | -5 | strange |