

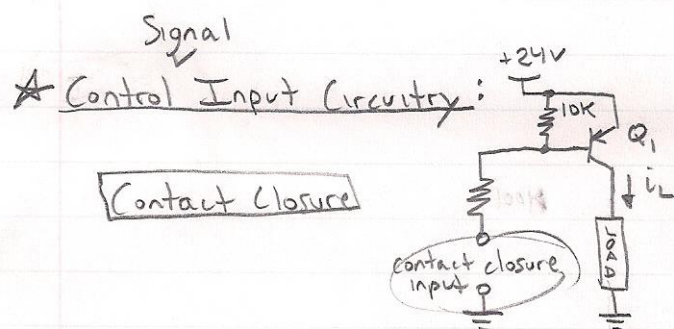
BiAMP Power Supply & Low-Voltage Control

12-26-2012

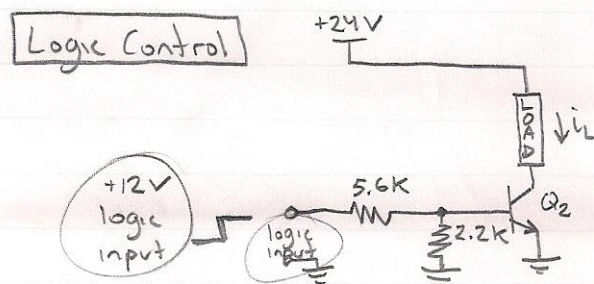
★ Summary: Installed +24V_{DC} switching power supply inside AudioFLEX chassis.

- Added control circuitry that drive power relay via control input signal
- Control has (3) modes for 2-pin input:

DIP selectable {
Contact Closure → shorting input pins closes power relay
CMOS logic input → +12V logic "HIGH" closes power relay
No Control (always ON) → with no control connector (1/8" mono plug) inserted in control jack, the power relay is always closed.

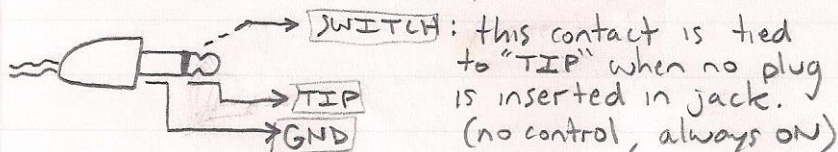


- current i_L flows only when control is set to "Contact Closure" and input pins are shorted together



- current i_L flows while control input goes logic "HIGH" (when switch is set to "logic control.")

No Control - (Always ON)

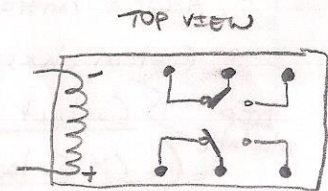


- for SWITCH contact (with TIP) to activate relay in both ~~control~~ modes (logic and contact closure), the contact closure circuit must use ~~positive~~ logic.

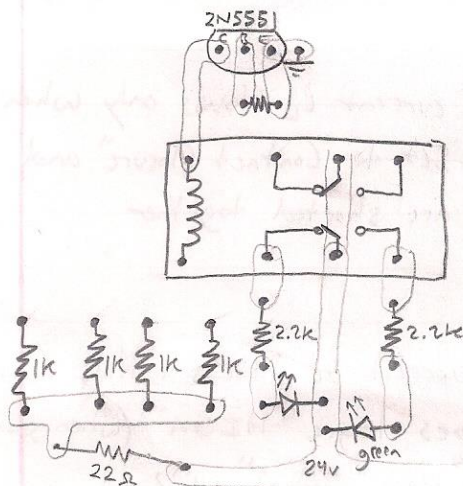
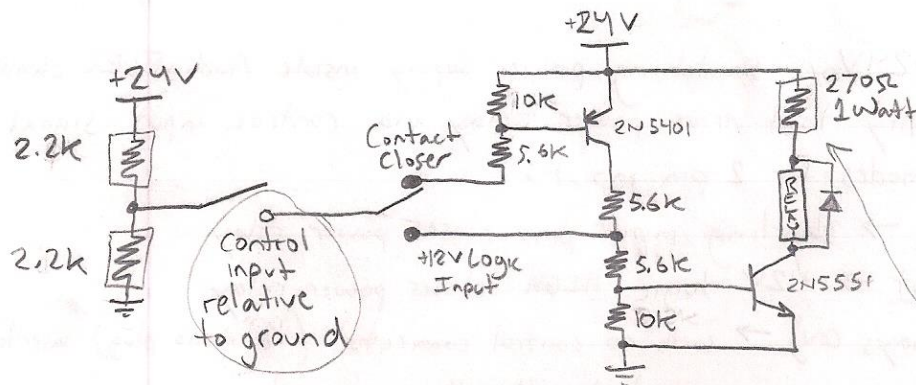
Final Circuit

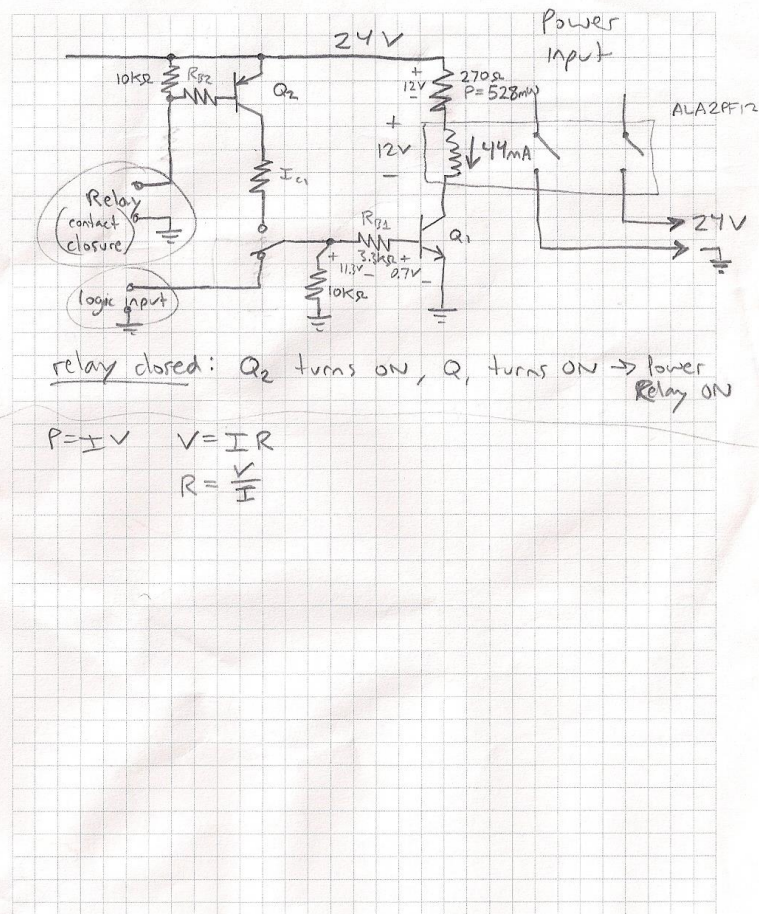


Small-sig
transistors.



$$-(1k \parallel 1k \parallel 1k \parallel 1k) + 22\Omega = 270\Omega$$





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