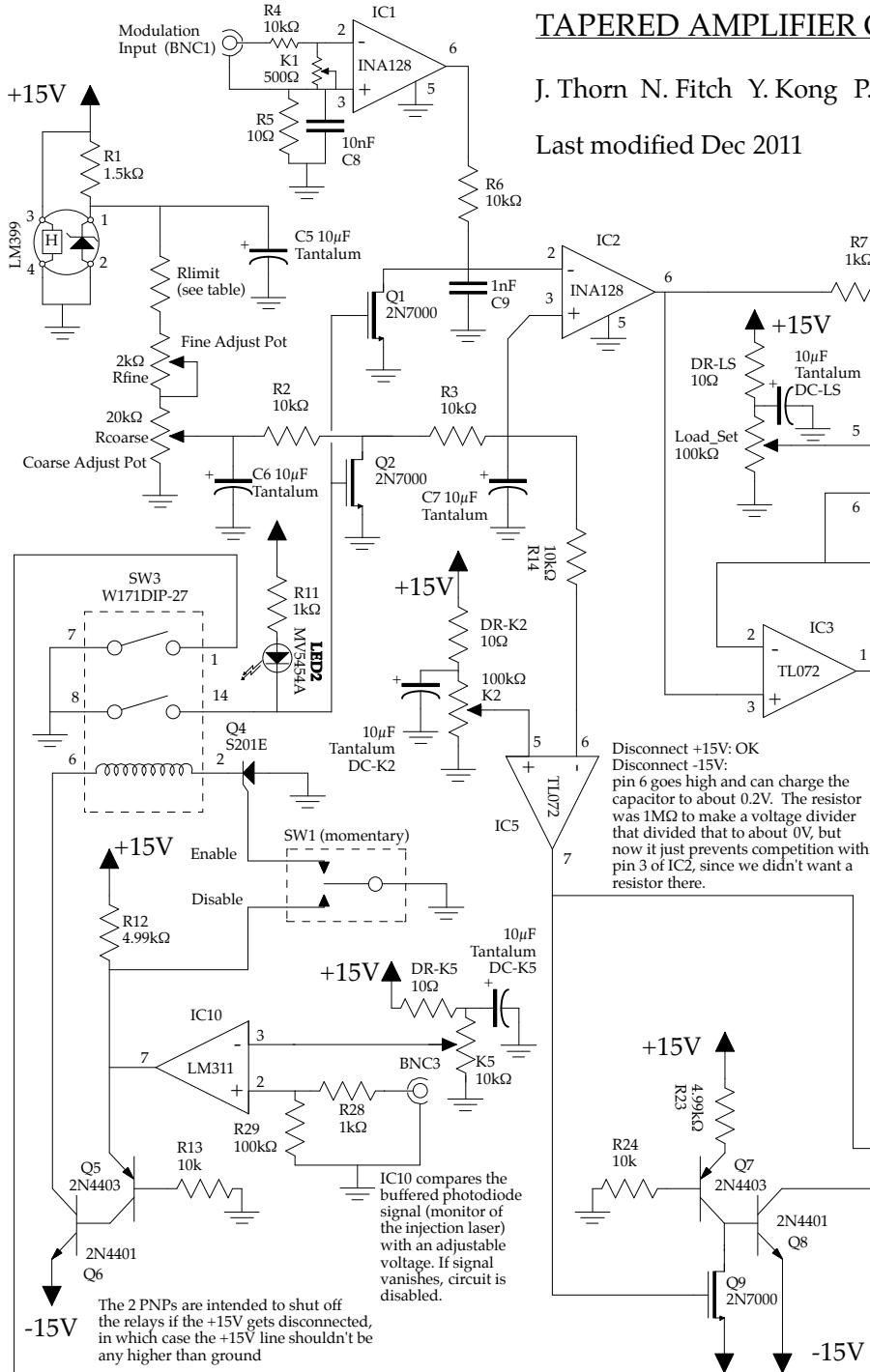


TAPERED AMPLIFIER CURRENT CONTROL CIRCUIT

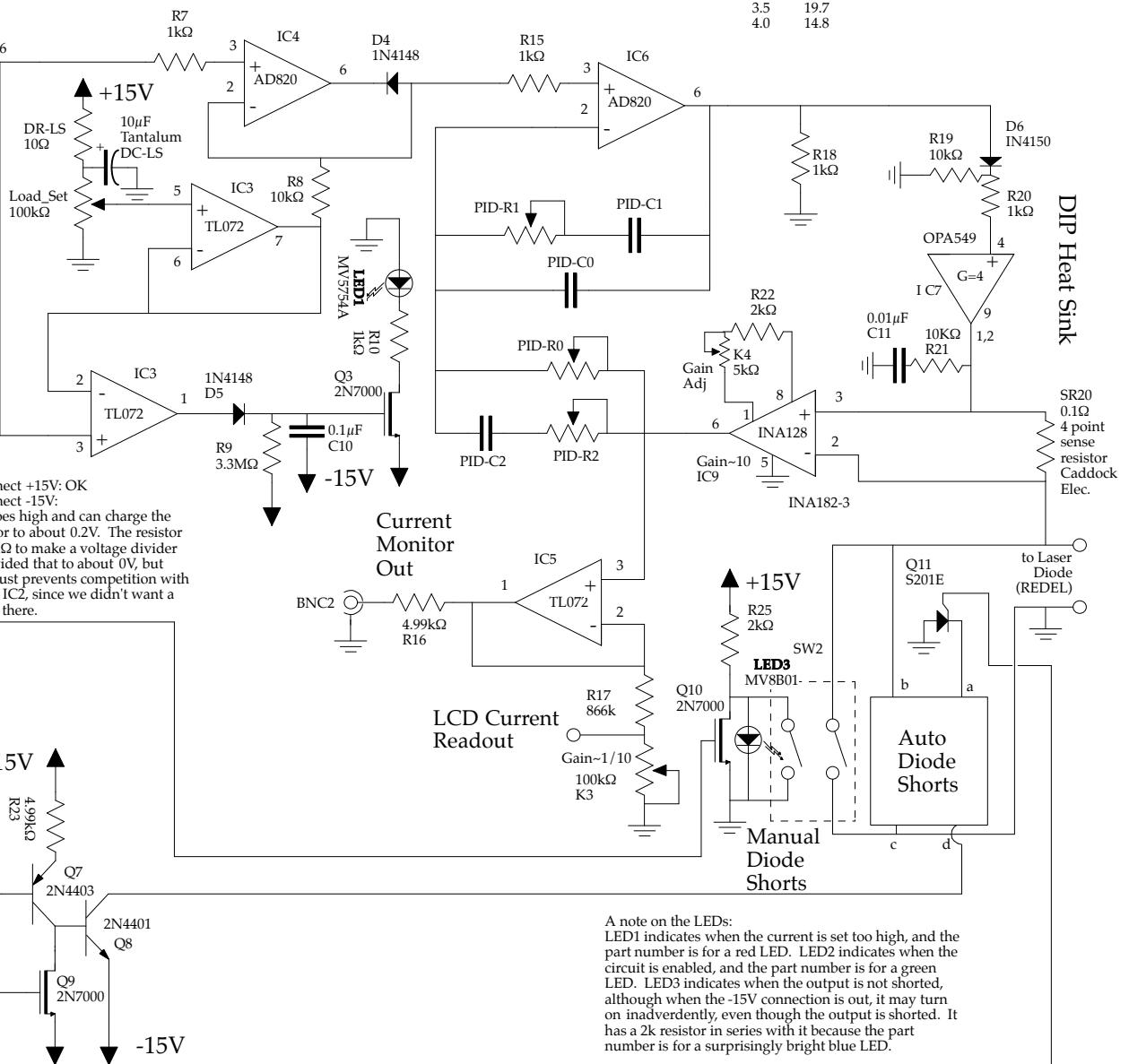
J. Thorn N. Fitch Y. Kong P. Martin

Last modified Dec 2011



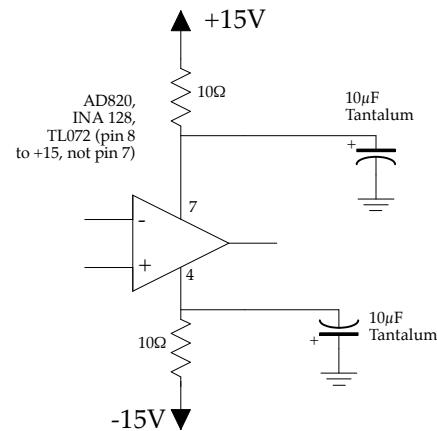
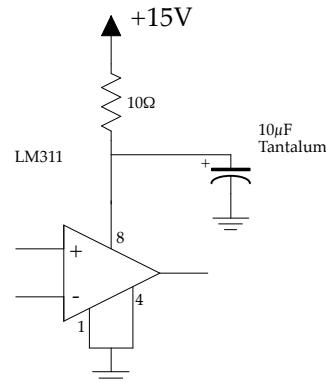
Output Limit Resistor, Rlimit:
max current for Rfine->0, Rcourse->20k
 $I_{max} = (6.95 \text{ A}) R_{course} / (R_{limit} + R_{course})$

I _{max} (A)	R _{limit} (kΩ)
0.5	258
1.0	119
1.5	72.7
2.0	49.5
2.5	35.6
3.0	26.3
3.5	19.7
4.0	14.8

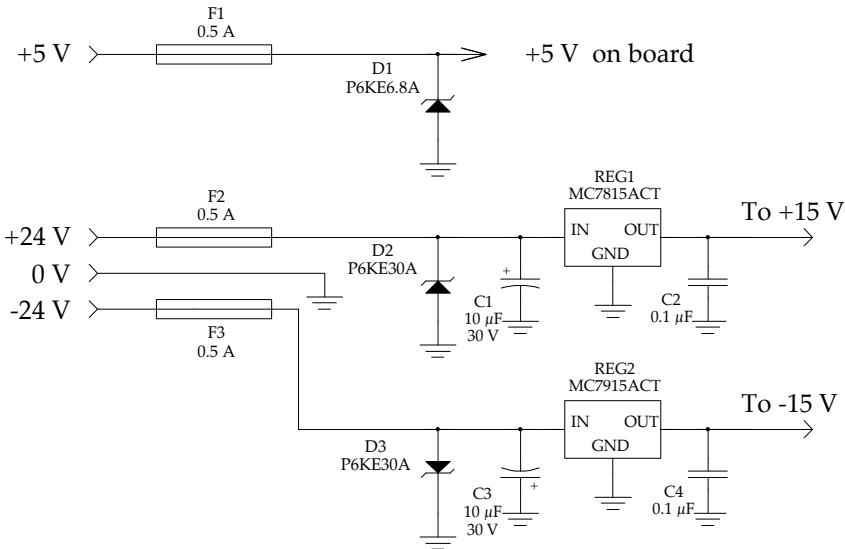


A note on the LEDs:
LED1 indicates when the current is set too high, and the part number is for a red LED. LED2 indicates when the circuit is enabled, and the part number is for a green LED. LED3 indicates when the output is not shorted, although when the -15V connection is out, it may turn on inadvertently, even though the output is shorted. It has a 2k resistor in series with it because the part number is for a surprisingly bright blue LED.

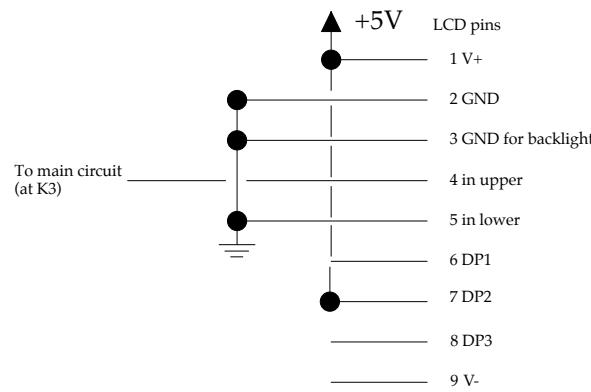
ADDITIONAL CONNECTIONS



POWER CONNECTIONS



LCD CONNECTIONS



ADDITIONAL OPA549 & DIODE SHORTS CONNECTIONS

