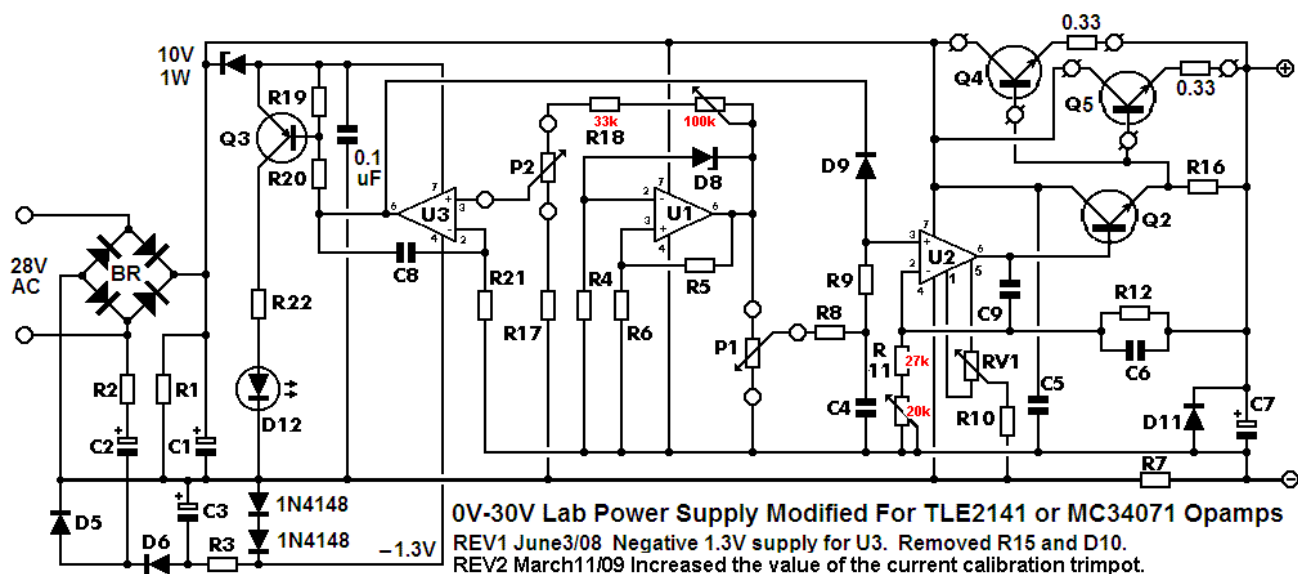




Parts List for modified 3A Variable Power Supply

Using MC34071 or TLE2141 opamps

- *T1 = 28VAC, 4.3A, 118VA stepdown power transformer
- *R1 = 2.2 KOhm 2w
- *R2 = 82 ohm 2w
- R3 = 220 ohm 1/2w
- *R4 = 1 KOhm 1/4w
- R5, R6, R20, R21 = 10 KOhm 1/4w
- *R7 = 0.47 ohm 10w
- R8, R11 = 27 KOhm 1/4w
- R9, R19 = 2.2 KOhm 1/4w
- *R10 = 1k ohm 1/4W for TLE2141, a piece of wire for MC34071
- R12 = 56KOhm 1/4W
- *R13 = not used
- *R14 = not used
- *R15 = 100 ohm 1/4w
- R16 = 1 KOhm 1/4w
- R17 = 33 ohm 1/4w
- R18 = 33k 1/4W
- *R22 = 3.9 KOhm 1w
- *RV1 = 5k trimpot for TLE2141, 10k trimpot for MC34071
- New = 20k trimpot to calibrate voltage
- New = 100k trimpot to calibrate current
- P1, P2 = 10KOhm linear potentiometer
- *C1 = 12,000uF/63V electrolytic
- C2, C3 = 47uF/50V electrolytic
- C4 = 100nF polyester
- *C5 = 220nF polyester
- C6 = 100pF ceramic
- C7 = 10uF/50V electrolytic
- C8 = 330pF ceramic
- C9 = 100pF ceramic
- *D1, D2, D3, D4 = 6-10A/50V diode bridge module, on a heatsink or on the chassis
- D5, D6 = 1N4148
- *D7 = two 1N4148 diodes in series
- D8 = BZX79C5V6 low current 5.6V Zener
- D9, D10 = 1N4148
- D11 = 1N4001 diode 1A
- *Q1 = not used
- *Q2 = BD139, NPN transistor, on a pretty big heatsink
- Q3 = BC557, PNP transistor or BC327
- *Q4 = Two paralleled 2N3055 NPN power transistors with 0.33 ohm, 2W emitter resistors each
- *U1, U2, U3 = TLE2141 or MC34071 opamps
- D12 = LED

"*" is a change from the original design.