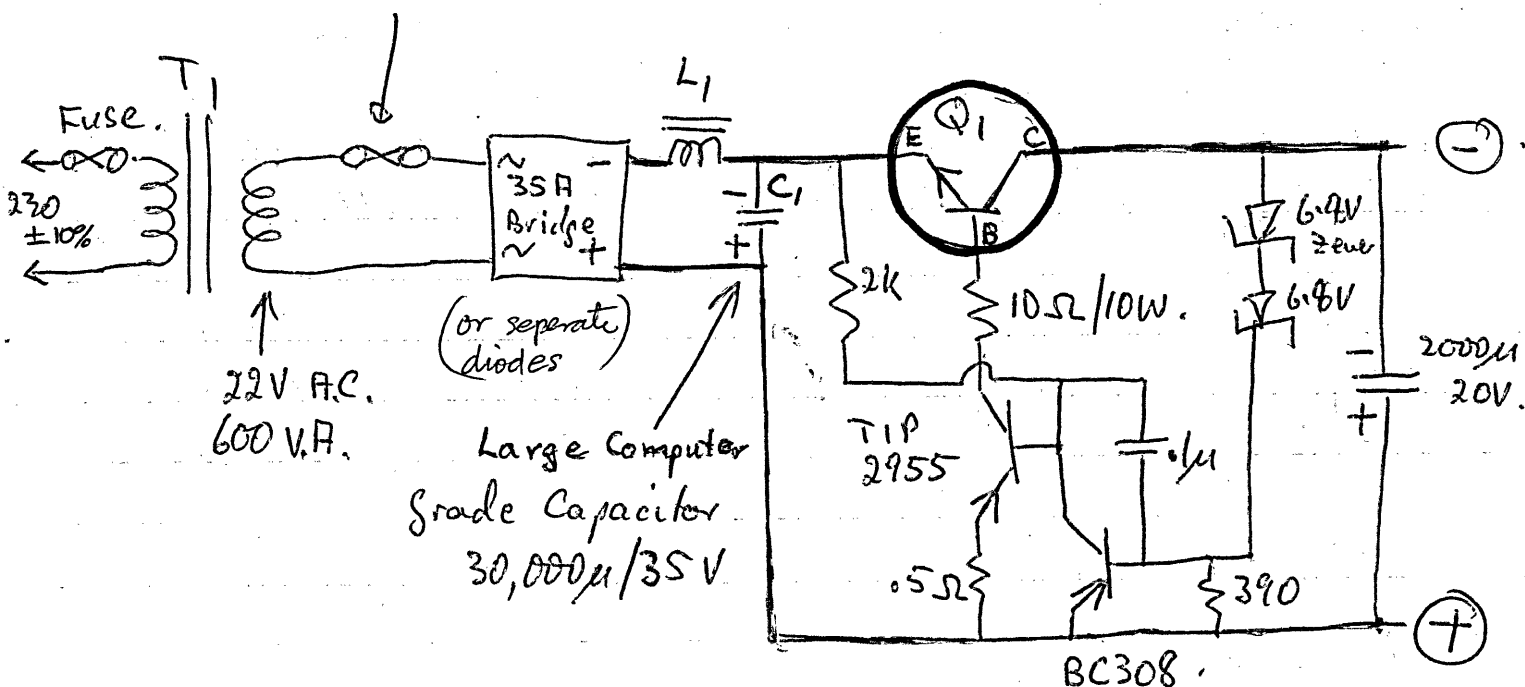


14V. 20 Amp Reg. P/S.

222AYX.
Peter Pohl.

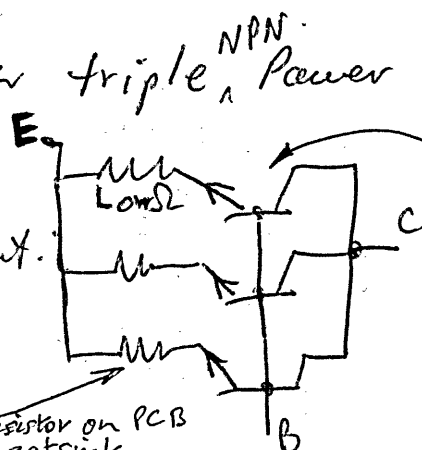
20 Amp Automotive cutout.



(L₁) choke $\approx$ 2 to 10 mH ex computer
- adjust core gap so that inductance is maximum that still allows regulator to work with fluctuating load. (Best done using oscilloscope while keying say 15A Load - but can be approximated by watching 12V 3W lamp across output to see that brilliance does not change while either keying or while whistling at full power on SSB.

(Q₁) is ex Computer triple^{NPN} Power transistor on heatsink.

Base current $\approx$ 200-500mA when 20A collector current.



Similar to 2N5881.
NPN Type 358

Emitter Resistor on PCB fitted to heatsink.

(T₁) 22V AC 600VA for continuous 20A supply - can use smaller for intermittent use.

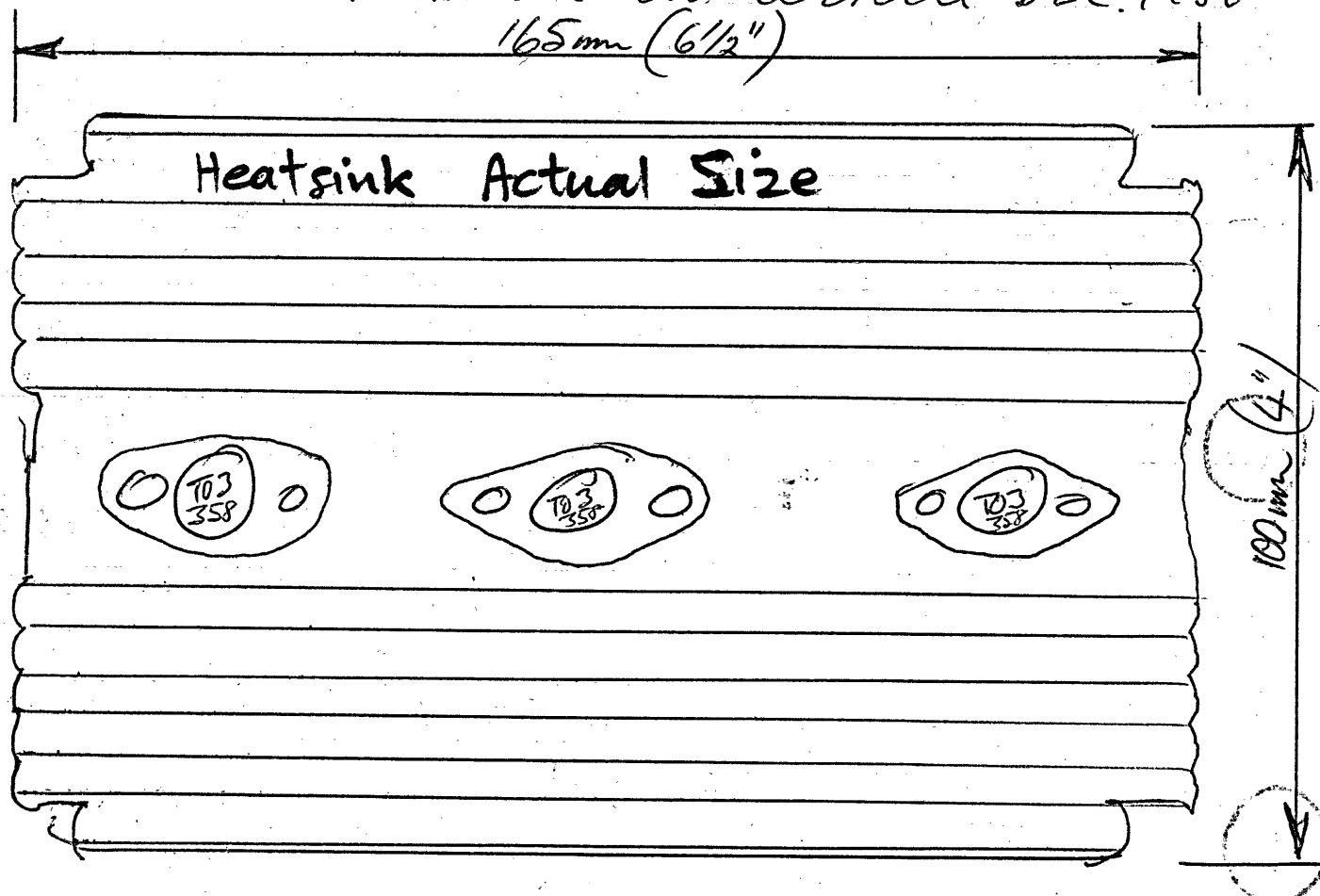
Warning: DO NOT TRY TO leave out L₁ (ie capacitor input supply) if using more than a few amps as ripple currents in C₁ can be ~~up to~~ about FIVE TIMES the DC output current viz 100A ripple for 20ADC PTO

Neither C, nor usual bridge rectifiers will stand currents of that size for long!

Use Auto cable (heavy) for high current wiring, and keep leads as short as possible.

Voltage across C, varies from about 30V at no load to just above ($\frac{1}{2}$ volt) the output volts ($\approx 14V$) at full load

It is probably worth while to put a 'crow bar' circuit set for 15-16V across the output should the regulator fail - see recent 'break-in' article DEC. 1980.



Note - Height of Heatsink is 50mm (2")

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