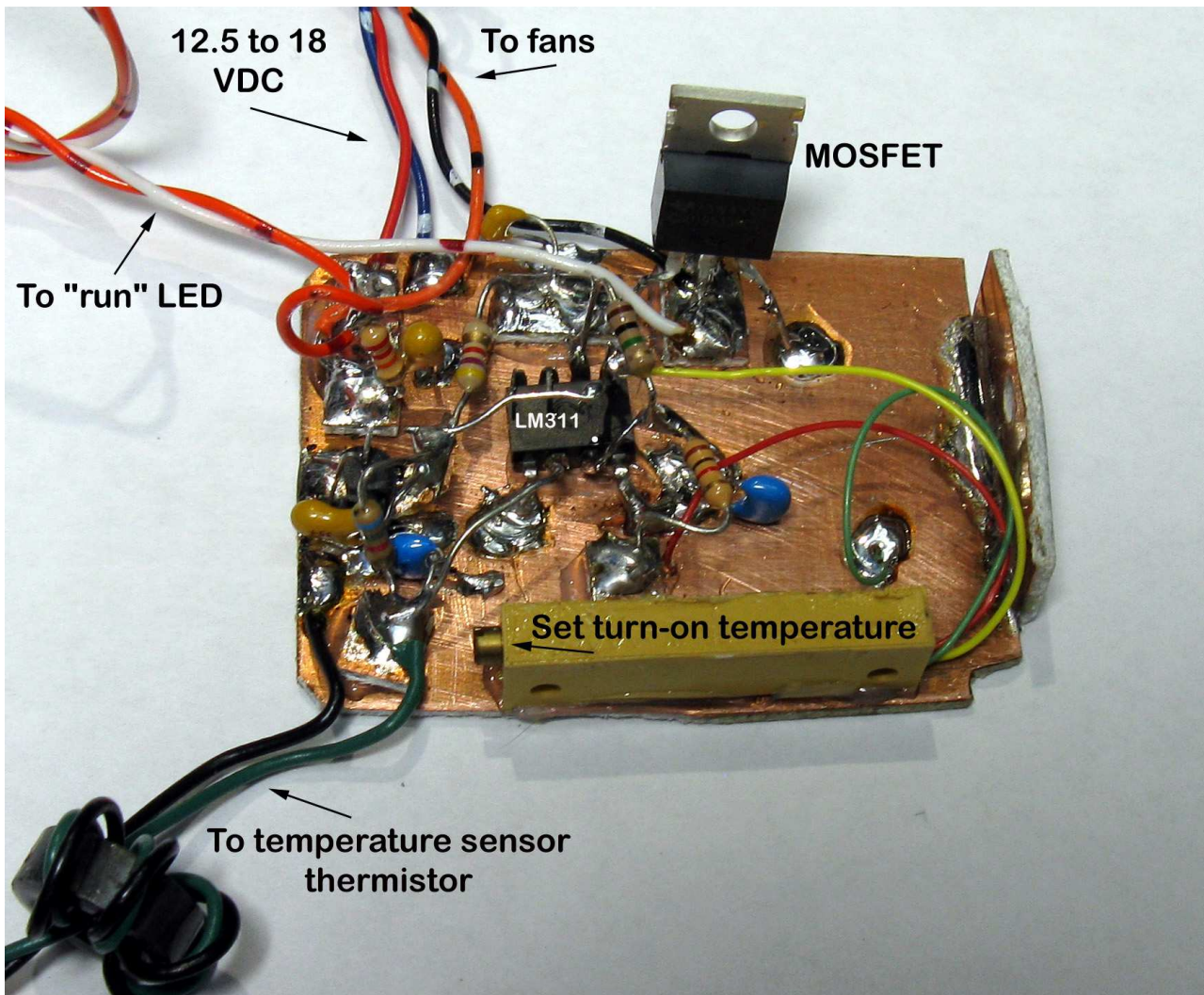


FAN CONTROLLER – KZ4AK



The thermistor is tucked inside the server PS near air outlet. Layer epoxy insulates it.

Set potentiometer is multi-turn for ease of setting. Set turn-on temperature to suit.

The LED is front panel mounted to show when fans are ON.

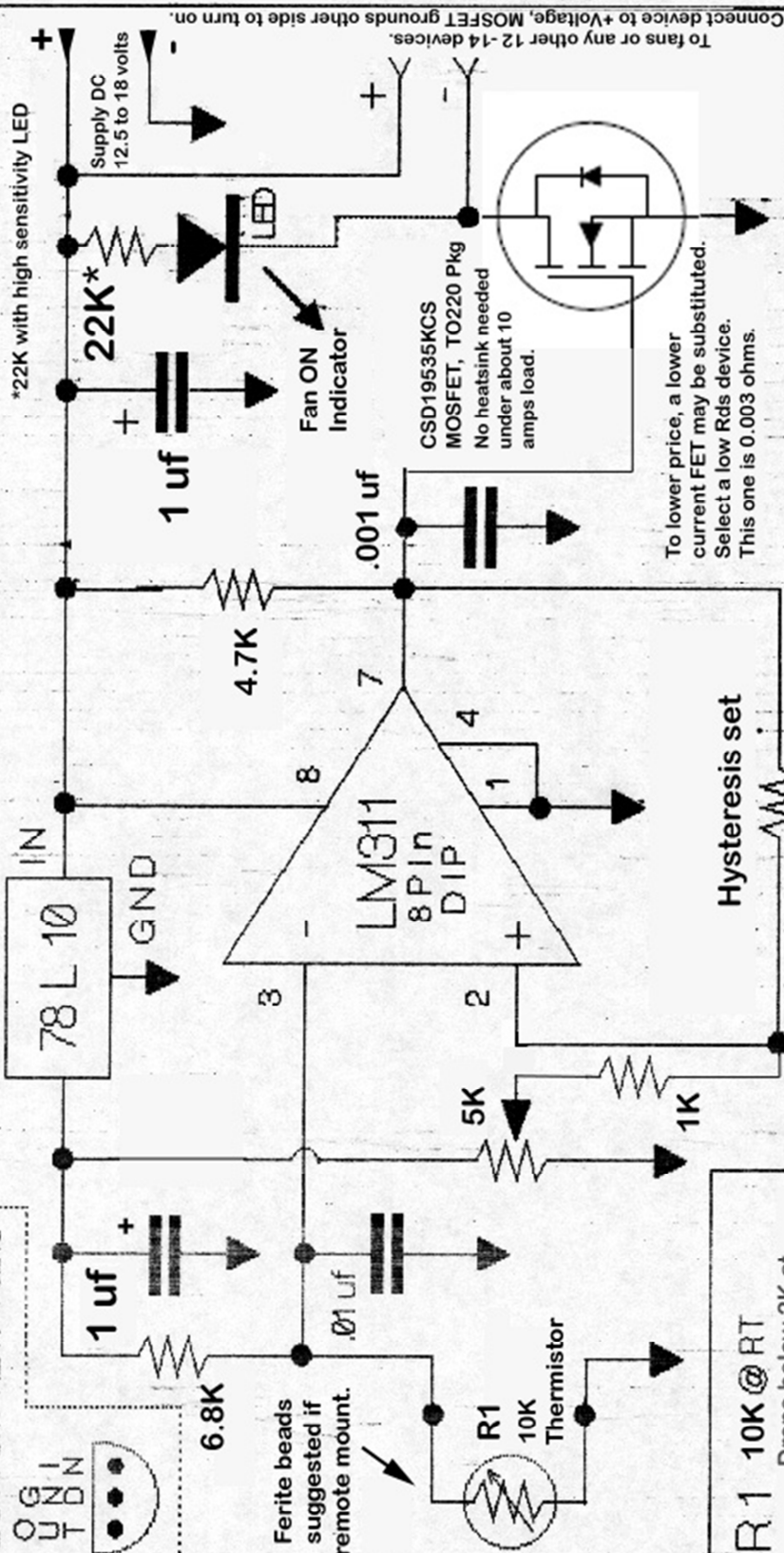
Change the 1 M ohm resistor to vary the OFF – ON dead band (hysteresis).

This revised circuit uses a low R_{ds} MOSFET (3 milliohms) and is capable of switching 14 VDC of around 5-10 amps with no heat sink on the TO220 package. Much higher with heat sink.

Built “dead-bug” style with island w/ pads of circuit board epoxied to main circuit board.

Parts not from my junkie-box are from Digikey.com

BOTTOM VIEW 78L10



TEMPERATURE SWITCH

For fan control, or whatever.
KZ4AK - File: temp switch.jpg

Hysteresis set

~1 Meg

Value too high - Output may jitter.
Value too low = large deadband between on and off.

.01 & .001 Capacitors for RF bypass

R1 10K @ RT

Drops below 2K at higher temperature.

R2 -Set anti-jitter dead band.

Lower R = more hysteresis