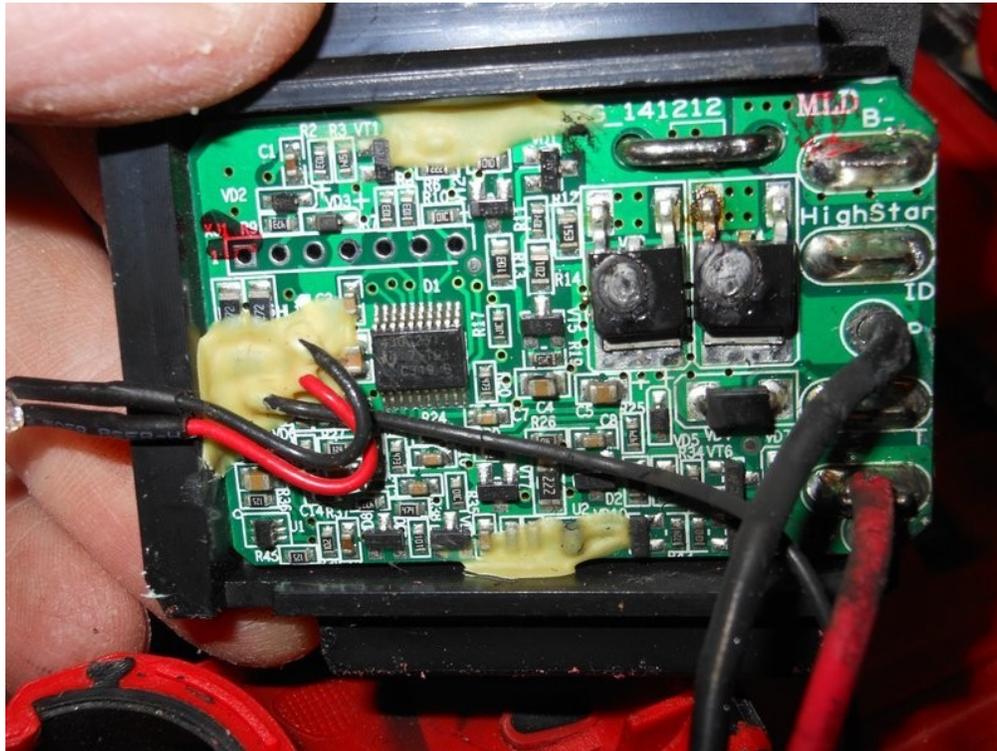


Harbor Freight Bauer Drill



Voltage Regulator Meltdown

2 Linear voltage regulators have big burnt out holes on them. Need replacement. What is their pinout? (they are DPAK package). Tab is GND. I think pin 1 is input, 3 is output.
Motor is Mabuchi model: RZ-735VA-A014. Range 6-20 volts.
Switch before motor is 7.2 – 24 volts.

Micro is TI msp430g252. Drills need a micro now. Great idea.../s
Question is, what is the level of the voltage regulator? Is it 20V?
It appears to be an onsemi (likely counterfeit) model such as: CS52015
I can't find an exact match from Digikey which only searches current models, not historical models.
I may be able to throw an adjustable vreg with similar pinout in...
The battery is 20V. The linear vregs aren't getting any power, even when broken. Maybe protection circuitry, maybe something else failed.
I need my DMM which I don't have, to reverse engineer further.
The two Vregs have a pin tied together, and that pin may be output, adjusted by resistors.