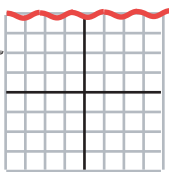


Every pedal has a power supply or battery, and its always the first thing to tweak, so its the same procedure for every pedal:

1. If you're using a battery, plug something into the input jack (not necessary for power supplies)
2. Hook the scope/meter - to either the black wire of the battery snap, or to the ground pin of the power jack
3. Hook the scope/meter + to either the red wire of the battery snap, or to pin 3 of the 7809/7805.
4. Set the scope to 2V/div and 5ms/div, or the meter to DC Volts (20V setting).
5. Plug in the battery or the power supply.
6. Immediately check to see if there's a solid 9V (for a 7809), or 5V (for a 7805) on pin 3.

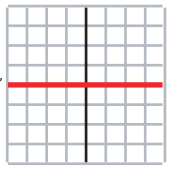
**IF SOMETHING GETS HOT  
DISCONNECT POWER  
IMMEDIATELY!!!**



Wavy, or humming  
>9V (7809)  
>5V (7805)

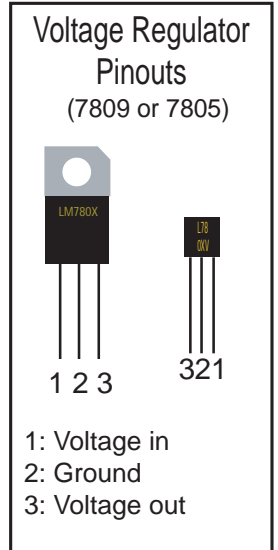
If pin 3 measures more than 9V (7809) or 5V (7805):  
-voltage regulator is blown  
-voltage regulator wiring is shorting out  
If it smokes then it definitely needs to be replaced...  
(gave up the ghost!)

If pin 3 measures less than 9V (5V) then  
-7809/7805 is blown  
-7809/7805 is backwards=>should replace  
-missing the 100uF cap from pin 3 to ground  
-the 100uF cap is backwards  
-the powersupply can't supply enough mA  
-there's an IC in backwards (it will get hot)  
-there's a short on the board between V+ and ground  
-power supply is broken or battery is low



No power  
0V

If pin 3 meaures zero volts (or less than 0.5V):  
-battery or powersupply is broken/dead  
-power jack or battery snap is miswired  
-power jack is melted/not connecting to plug  
-theres a short on the board between V+ and ground



6. Test for power on all ICs:



Broken trace between the IC and where power or ground connect to board

