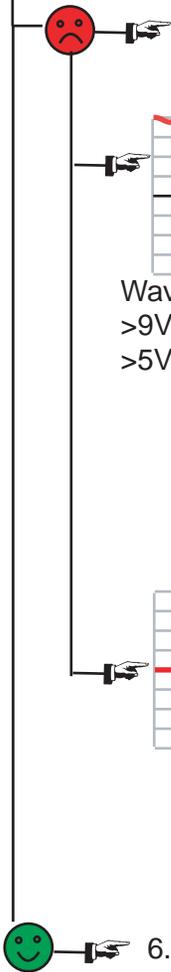


Every pedal has a power supply or battery, and its always the first thing to tweak, so its the same procedure for every pedal:

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!!!**



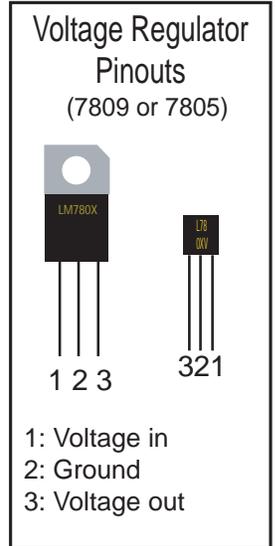
Wavy, or humming
>9V (7809)
>5V (7805)

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

