Sega/Gremlin G80 Power Supply

INSTALL GUIDE

The Vector Labs G80 power supply replacement board enables the use of standard ATX switching power supply to generate the G80 card cage power and also has a bult in audio amplifier. The kit contains the PCB and 4 white mounting feet w/screws.

NOTICE UNPLUG YOUR ARCADE CABINET FROM THE WALL SOCKET BEFORE PROCEEDING.

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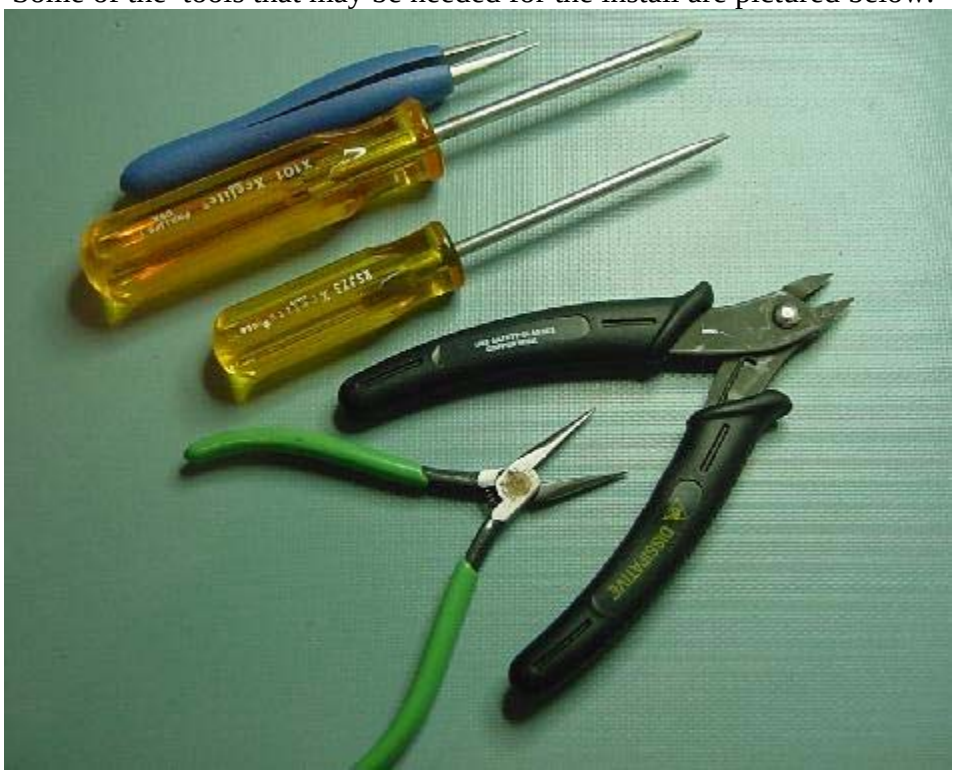
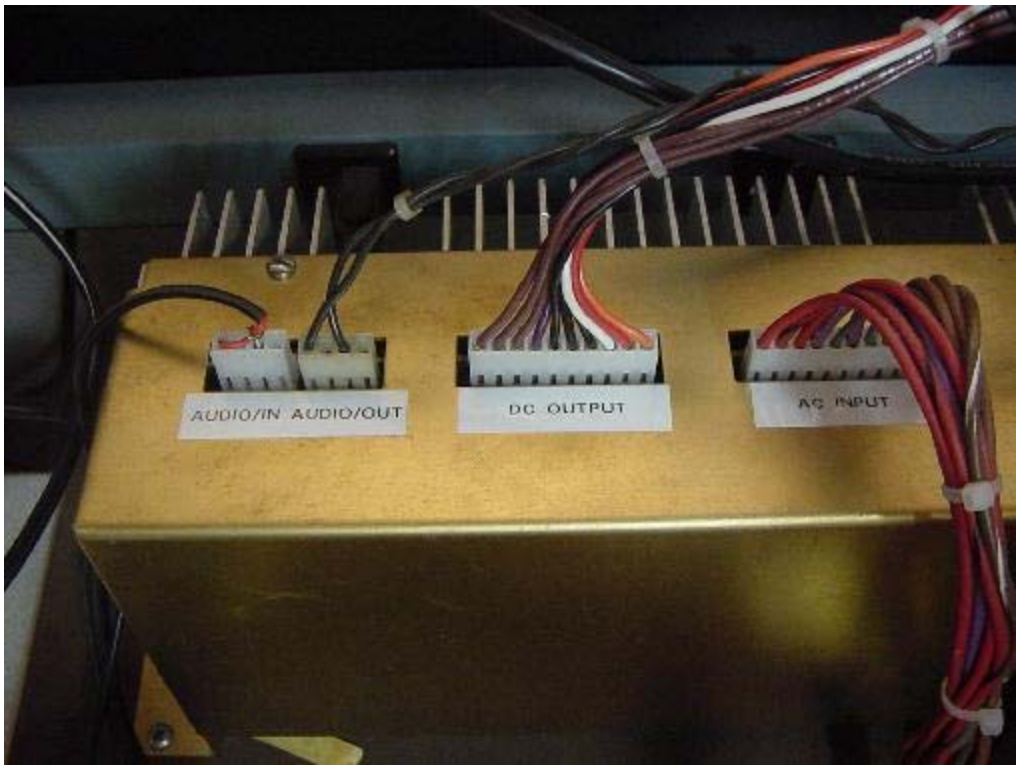
Some of the tools that may be needed for the install are pictured below.

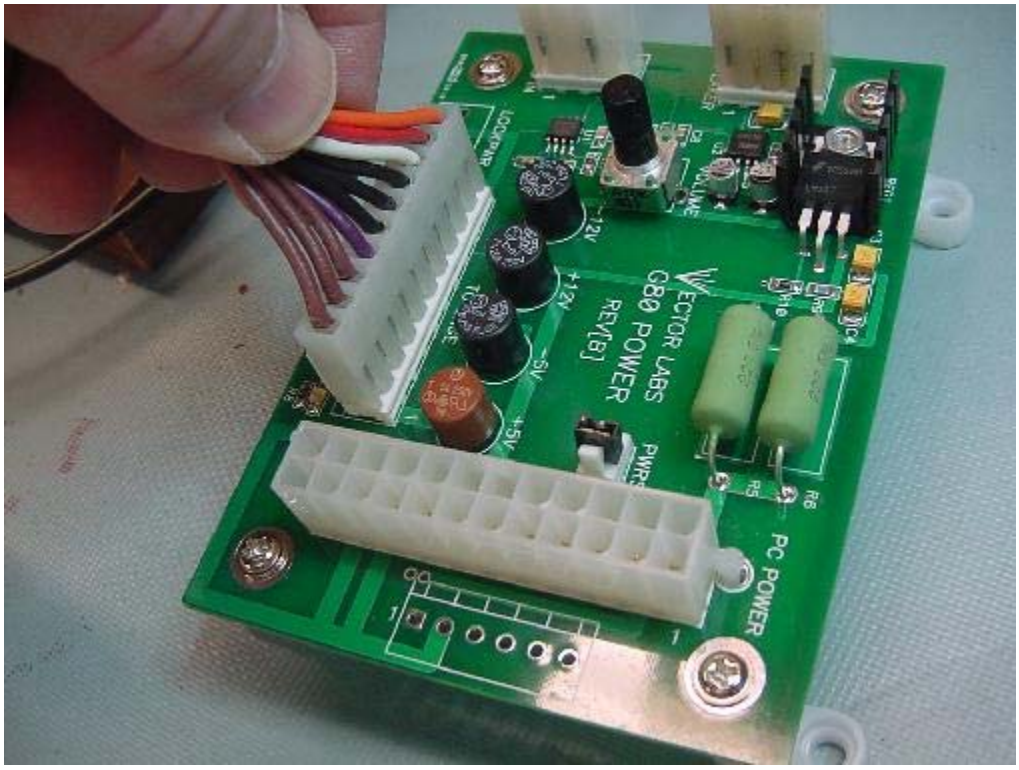


It is recommended to use a ATX power supply that has –12V @800ma or better.
The picture below is a typical 250watt ATX supply and is more than enough to power the G80 card cage, higher wattage supplys are not necessary and are more expensive.



The typical G80 power supply is shown above and has four connectors, AC input from the transformer, DC output to the card cage, audio input and audio output. First unplug the AC input connector and zip tie somehere where it will not short out on anything, as it will not be used anymore. Next unplug the audio input and output connector and plug into the new board as shown below.

Next unplug the dc output connector from the old supply and plug into the new board as shown below.



Now plug in the 20 or 24pin connector from the ATX supply as shown below.

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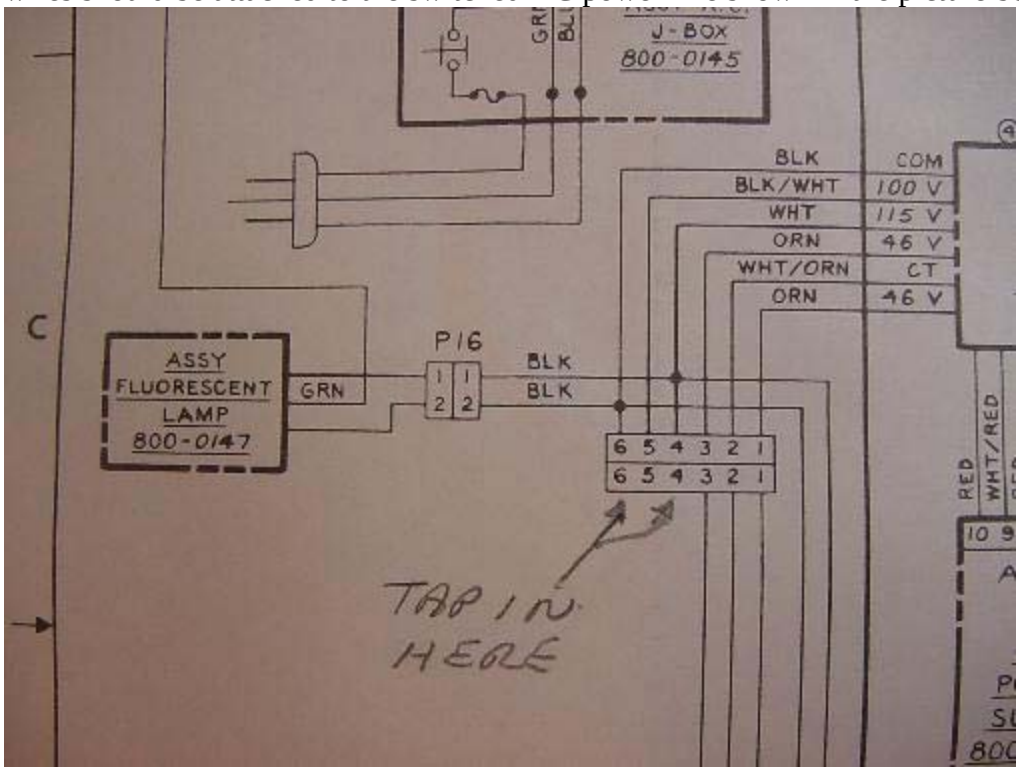
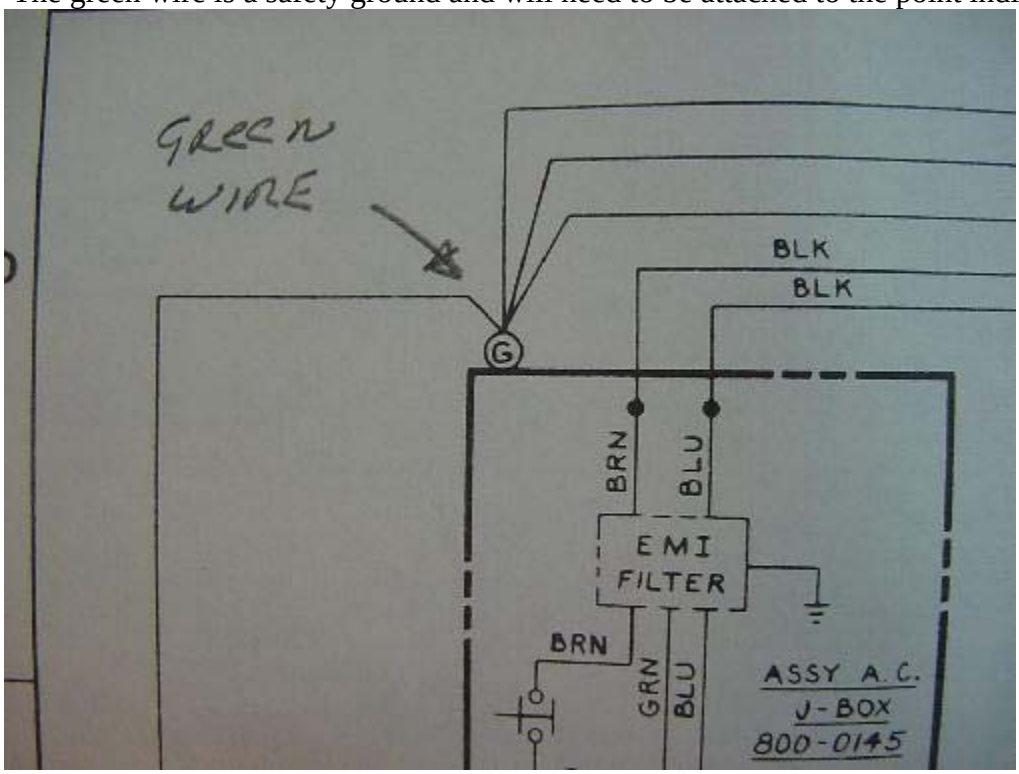
IF YOU ARE NOT EXPERIENCED WITH AC POWER WIRING STOP NOW AND CONTACT A QUALIFIED ELECTRICIAN.

Some ATX power supplys come with power cords, if not you can buy them fairly cheaply. As they have been standard on PC's for many years. You will need to cut the power plug of one end and strip ½" of insulation from the 3 wires. Some cords have blue/brown/green or white/black/green wires. The black/white or blue/brown wires should be attached to the switched AC power like shown in the picture below



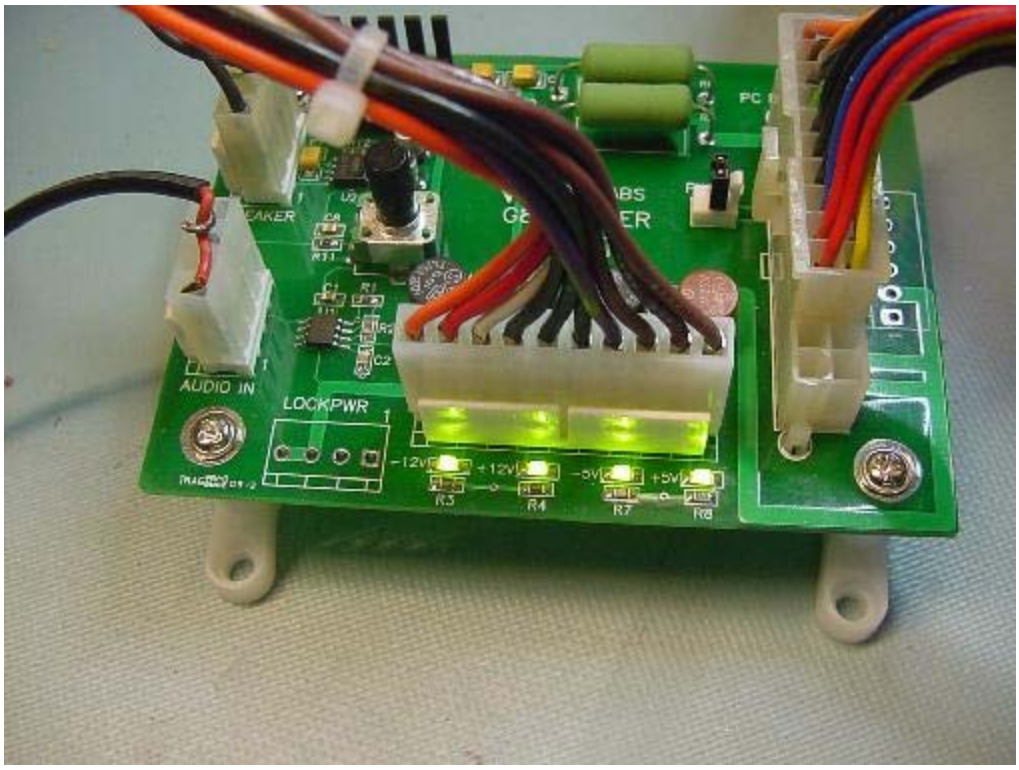
The green wire is a safety ground and will need to be attached to the point indicated below.



THE INSTALL IS NOW COMPLETE!!!

The power switch on your ATX power supply should always remain in the on position as the game power switch now controls the power into the ATX supply.

Plug the cabinet power cord back into the wall socket and power on the game.



The 4 LED's should be lit indicating power available on the +5v –5v +12v & -12v outputs. Coin up the game and adjust the volume level control on the PCB.

If no LED's are lit then check the fan inside the ATX supply to see if it is running. If not then you are not getting AC power to the ATX supply. If some of the LED's are lit and other's are not then there is a problem with your DC power cable or card cage. Note which led's are off and then power the cabinet off and check the corresponding fuse on the other side of the connector. The fuses are socketed and can be easily unplugged and tested with an ohm meter to see if they have been blown or are still good. Only check one at a time so they don't get plugged into the wrong position. Replacement fuses can be provided by contacting **support@vector-labs.com**

IF YOU HAVE AND PROBLEMS OR SUGGESTIONS ON HOW TO IMPROVE THIS INSTALL GUIDE PLEASE CONTACT VECTOR-LABS@TX.RR.COM

THANK YOU FOR YOUR PURCHASE