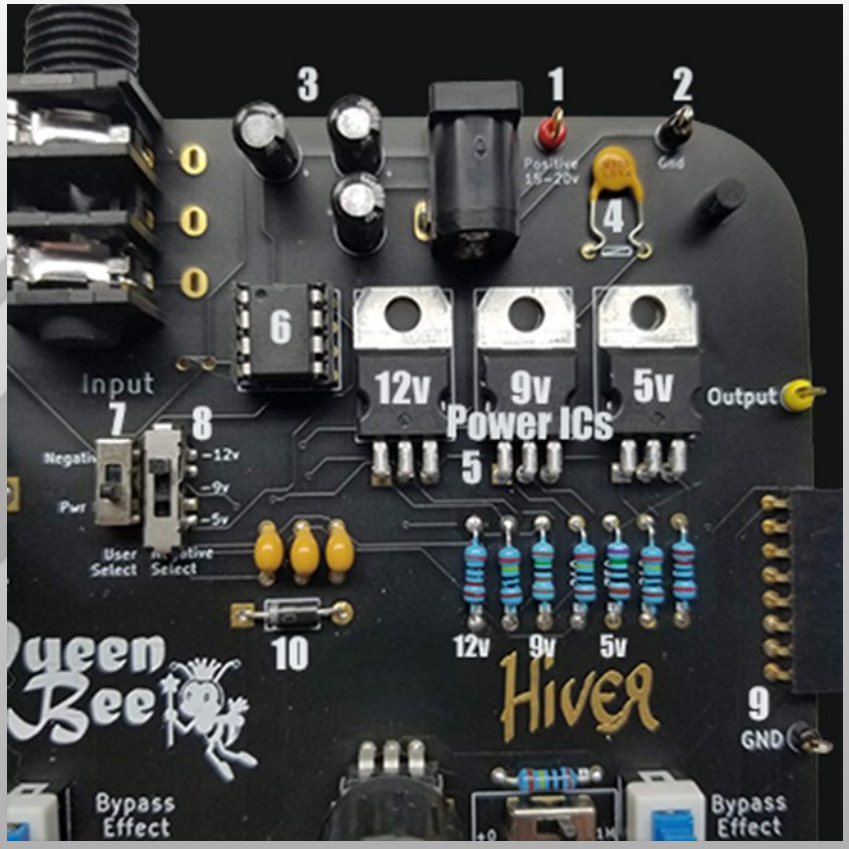
Queen Bee

Features Breakdown

Power Section Details



1. Positive power connection for a power supply. As designed, the Queen Bee will safely support up to 20v. A minimum of 15v is required for proper operation of the 12v power regulator.
2. Ground connection for power supply.
3. Electrolytic capacitor bank used to stabilize power and cut power supply noise. In the newest version there are two extra spaces provided for custom filtering needs.
4. Thermal Fuse
5. Power ICs. These LM317s can be configured for custom voltage choices by changing the corresponding resistors shown. Please note that if you change the resistor, and therefor the voltage, then the corresponding negative voltage will change as well. The Queen Bee is designed to be acceptably close to the shown voltages. It is not designed to be absolutely accurate.
6. The TC1044 charge pump is connected to the 12v, 9v, and 5v voltage lines via switch 8. It can convert voltages up to 12v. If you should configure one of those lines to go above 12v then care should be taken not to flip switch 8 to that corresponding position. If you are using the Queen Bee as designed all switch positions are useable.
7. This switch gives you the option of sending negative power (as selected by switch 8) to the FX stages, or sending the power supplied directly from your wall wart or power supply. *There is a voltage drop across diode 10.
8. Three positions allow you to choose -12v, -9v, or -5v to be sent to your FX stages. This switch must be used in combination with switch 7.
9. Ground test connection.
10. Diode for reverse polarity protection.

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Audio Section

1. Audio Output- The footprint is designed to accept two different sizes of ¼ inch jacks.
2. Audio Input- The footprint is designed to accept two different sizes of ¼ inch jacks.
3. Audio input connector for attaching a signal generator.
4. Bypass capacitors. The footprint is designed to accept a wide variety of capacitors. Sockets can be used for flexibility.
5. Capacitor selector switches. These switches can be used to enable or bypass the above capacitors.
6. Volume control.