

# FF5 Project - Powering the Fuzz Face™ PNP circuit with a Charge Pump

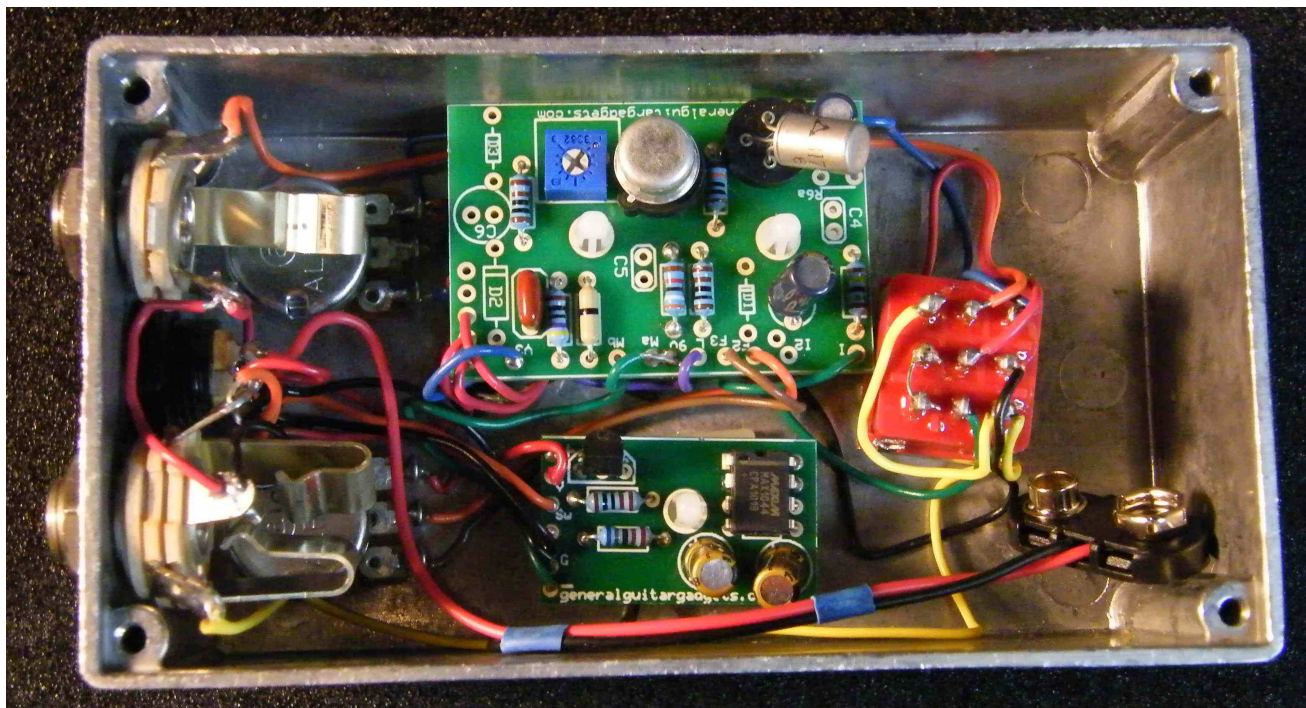
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We ran across a forum post long ago where R.G. Keen suggested using a charge pump to convert the power input of a PNP circuit from positive ground to negative ground. This provides a solution for those of us who like to **daisy chain** a power supply to all of our stompboxes. If you've ever tried to daisy chain your modern pedals (Boss, Ibanez, etc) with a Fuzz Face (or an old 70's Big Muff Pi or any PNP transistor circuit pedal), you know you can't do it. Now you can!

From the DC jack or battery, the charge pump circuit is a negative ground circuit. From the output of the charge pump circuit, we use the ground and -9v outputs to power the Fuzz Face. The Fuzz Face circuit sees a positive ground (0v is more positive than -9v). So here is the solution for the FF5 PNP versions in diagram and photo. This is a great "wrapper circuit" to install and probably well worth the time in the long run. Here's a photo of a Dallas Arbiter type Fuzz Face replica with the charge pump.



Here's the wiring diagram for the Dallas Arbiter Fuzz Face Replica with charge pump (next page).

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