EHX PEDALS

POWER JACK MOD INSTRUCTIONS

StewMac®

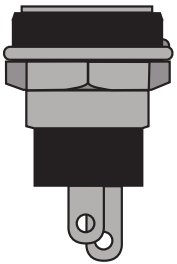
THIS VERY SIMPLE MOD

lets you use the widely available "Boss style" 9-volt power supply for your older EHX pedals. Though we use the EHX Holy Grail for these instructions, this mod works for many older EHX pedals. Never worry about finding the right power supply again!

If you run into issues with this modification, a StewMac tech advisor is a click or call away: **stewmac.com/contactus or 1.800.848.2273**

PARTS LIST

[1] **Small DC power jack**



[1] **EHX Pedals Power Jack Mod instructions**

TOOLS YOU'LL NEED

Fine-gauge Wire Stripper
#1606

Guitar Tech Screwdriver and Wrench Set
#3693

Wire Cutter
#1607

1/4" Drill Bit
#4850

Kester Pocket-Pak Solder
#0505

Solder Sucker
#0503

Solder Wick
#0504

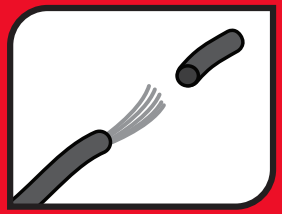
Solomon SR-965 Soldering Station
#0501

CONNECTING THE NEW SWITCH

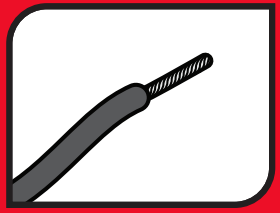
For your new switch to be connected properly, an understanding of tinning and soldering is necessary.

TINNING

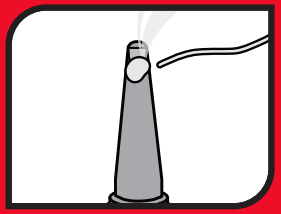
Tinning is an important part of the soldering process as it helps to make stronger solder joints. Tinning a wire is done by heating the wire with a soldering iron and then melting a layer of solder on it. If the wire you plan to tin is made up of many strands of wire, follow all of the steps below.



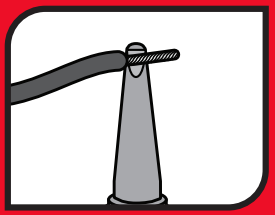
1. Strip roughly 1/4"of the wire sheathing from the end of the wire you intend to solder.



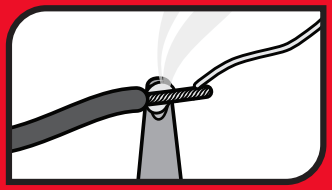
2. Twist the wire strands of the exposed wire firmly. ***Don't twist solid core wires.***



3. Dab a tiny amount of solder onto the end of your soldering iron.

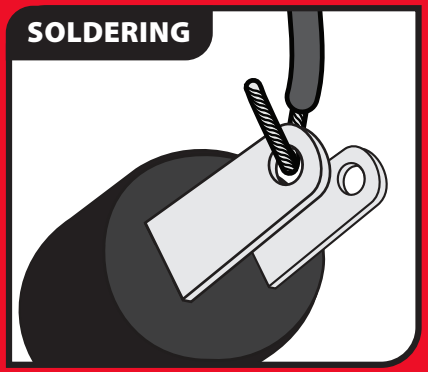


4. Touch the soldering iron with its dab of solder to the exposed wire closest to the sheathing. This will help to hold the iron in place as it heats the exposed wire. Wire will heat within a few seconds.

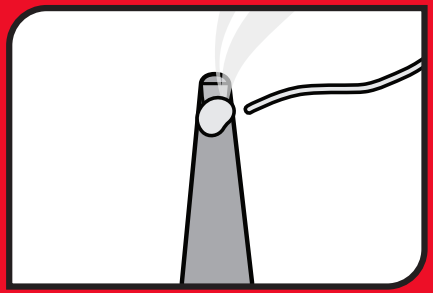


5. With the iron still touching the wire, take a length of solder and touch it on the exposed end of the wire and slide it along the wire slightly towards the sheathing and iron. The solder will find its way into the braids of the exposed wire.

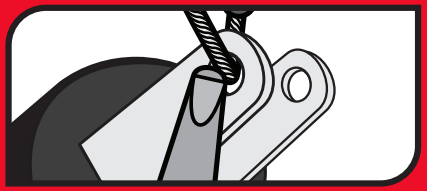
SOLDERING



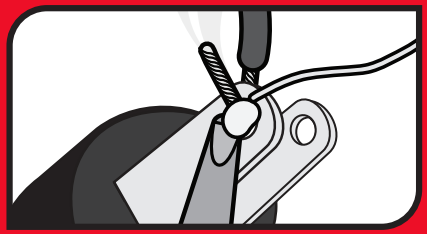
1. Insert tinned wire through lug hole before soldering and bend to secure.



2. Melt a small amount of solder onto the tip of the iron ("tinning" the iron).



3. Hold the tip against the connection until the connection reaches soldering temperature. This should take just a few seconds.



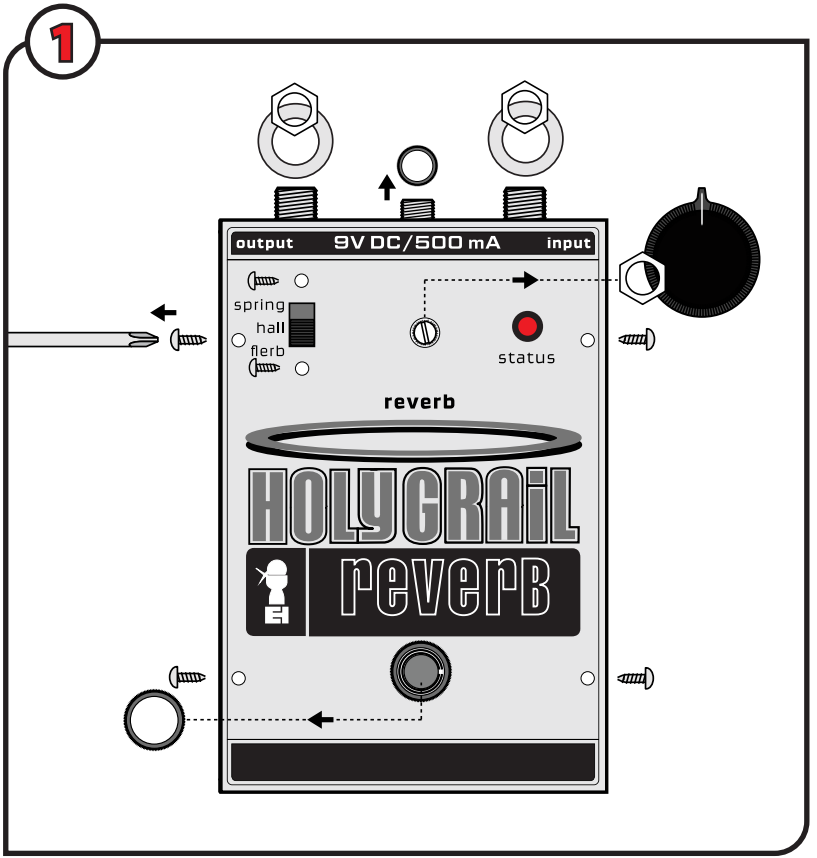
4. Feed solder to the connection, not to the iron. Stop feeding solder once the lug hole is filled. Keep the iron on the connection for a second longer; this pause gives time for all of the flux to cook out of the joint. After the joint has cooled, trim away the excess wires.

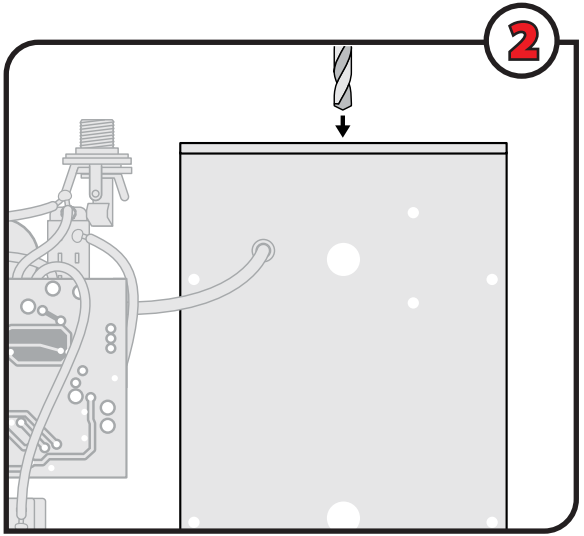
MORE HELPFUL SOLDERING TIPS AND TRICKS

- *Keep your soldering tip clean by wiping it often on a damp sponge.*
- *Also keep it tinned by occasionally melting a little solder onto it.*
- *Don't blow on the hot solder or touch anything until the joint has cooled completely. A good solder joint is shiny – a sign that it was left to cool undisturbed.*
- *Plan so each joint is only soldered once. Resoldered joints are messy and more likely to fail.*

DISASSEMBLE THE PEDAL

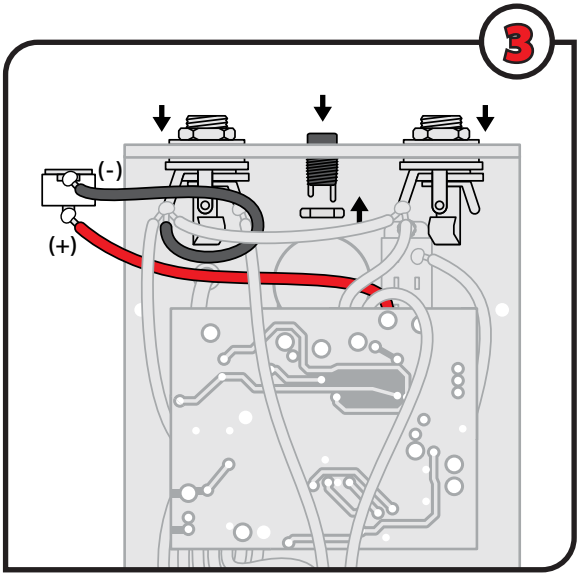
Remove the four screws that secure the back of the pedal housing. Pull off knob(s), remove screws/nuts holding the switch(s), mounting nuts on the potentiometers, and nut that holds the power jack. Set screws, washers and nuts aside. Gently pull top and bottom housing apart, being careful to not damage any wires or the circuit board. (Wires to the glued power light should be the only thing that remain connected).





ENLARGE THE POWER JACK HOLE

With the circuit board and other vital parts out of the way, enlarge the power jack hole from the outside of the housing with a 5/16" drill bit.



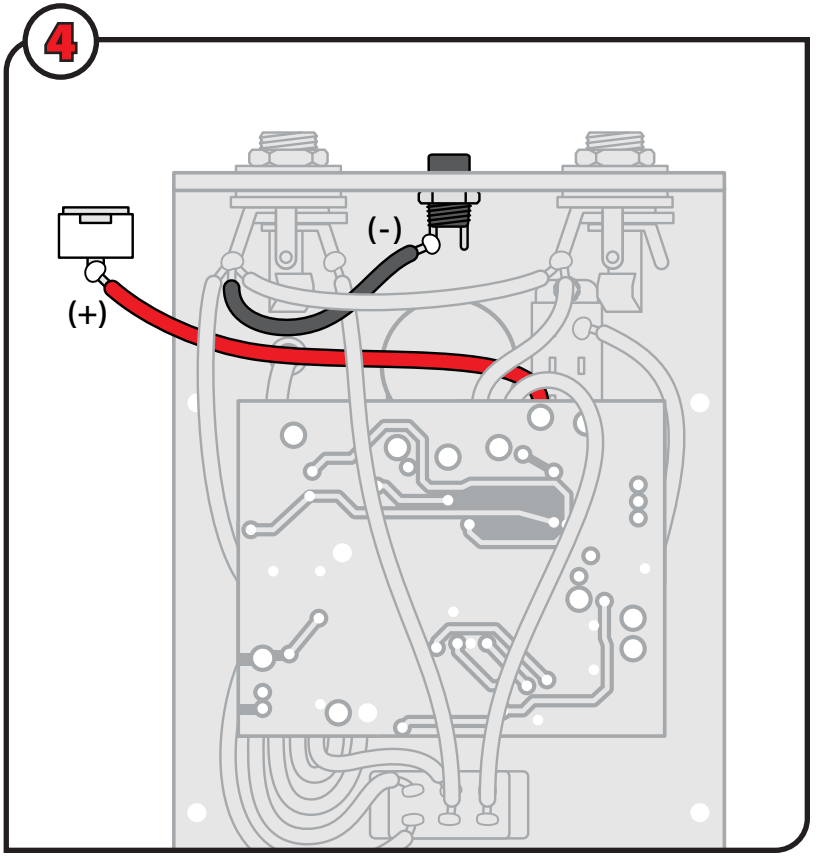
INSTALL NEW JACK AND REASSEMBLE

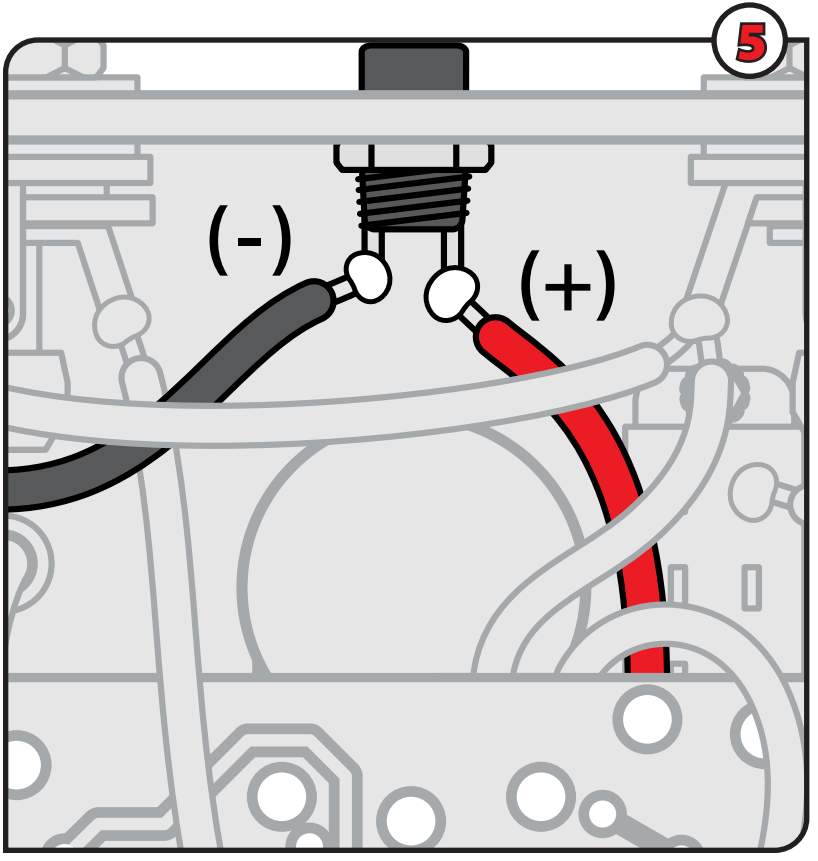
Insert new power jack into the enlarged power jack hole from outside the housing and attach washer and nut inside. Leave the wires connected to the old power jack for now. Put the circuit board back into the pedal and re-install the jacks in their original locations.

INSTALL THE BLACK WIRE

The power jack's shorter solder lug corresponds to its center connection, so the "negative" wire needs to be soldered to it. Cut the black wire from the old power jack, strip roughly 3/8" of insulation from the end of the wire, and tin the freshly exposed wire.

Wrap the black wire through the eyelet of the shorter solder lug on the new power jack and solder it.





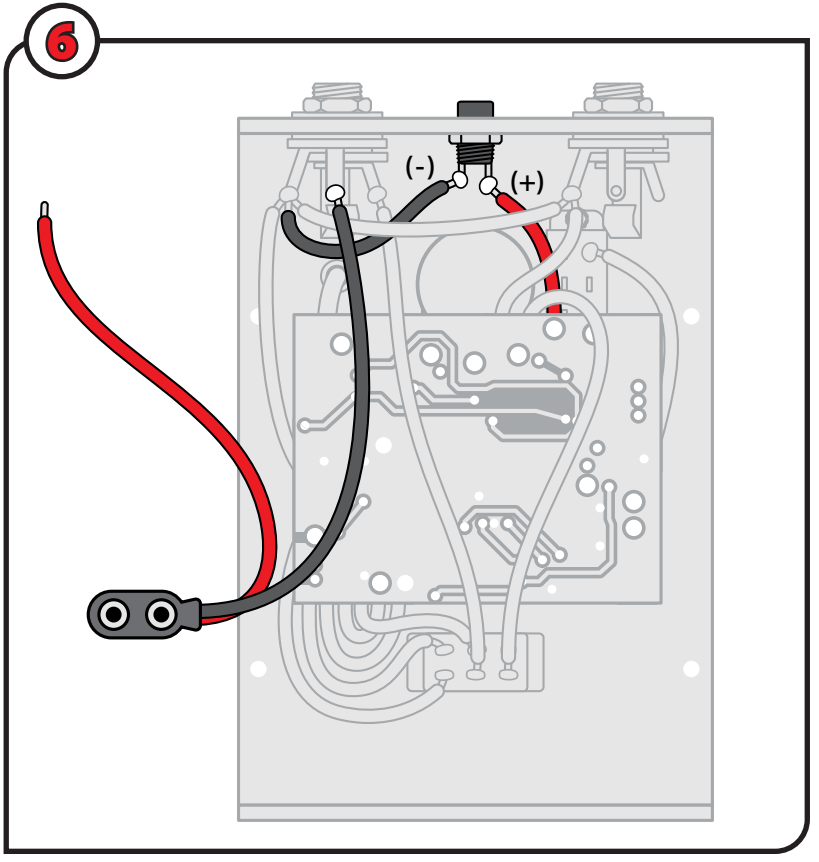
INSTALL THE RED WIRE

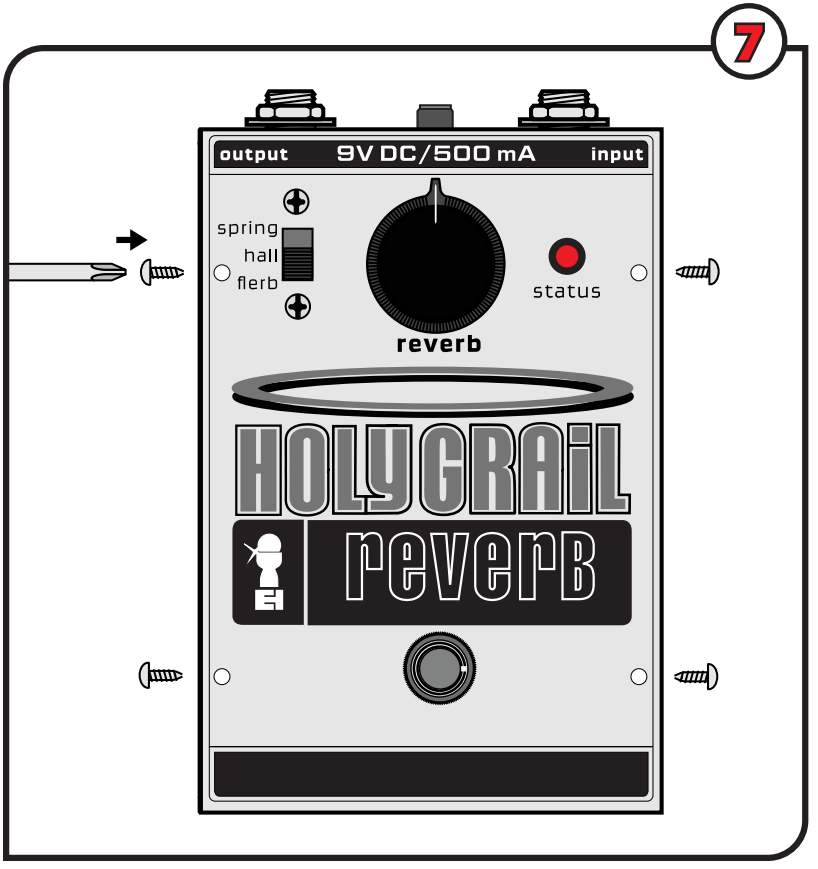
Cut the red wire from the old power jack, strip roughly 3/8" of insulation from the end of the wire, and tin the freshly exposed wire.

Wrap the red wire through the eyelet of the longer solder lug on the new power jack and solder it.

REMOVING THE BATTERY CONNECTOR (IF YOU HAVE ONE)

Some old-style EHX pedals come with a battery connector. This new power supply does not support a battery connection. To remove it, clip the battery connector's black lead from the shield lug on the input jack and remove the old battery harness and the old power jack.





FINAL ASSEMBLY AND TESTING

Re-attach the back panel with the four mounting screws. Plug in your favorite standard 9-volt "Boss style" power supply, a guitar, and an amp, and take your new convenient EHX pedal for a test drive. Should you experience intermittent power in the pedal, take the back cover off and re-set the solder joints on the power jack.

TECHNICAL SUPPORT:
If you have any questions before, during, or after attempting these modifications, please don't hesitate to reach out to our Tech Support Team. They are available by email at service@stewmac.com, and by phone M-F 9:00AM-5:00PM ET at 1-800-848-2273.

DISCLAIMER: Performing the modifications outlined in these instructions will void any warranty on your pedal. StewMac is not responsible for any damage caused by attempting these modifications.

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