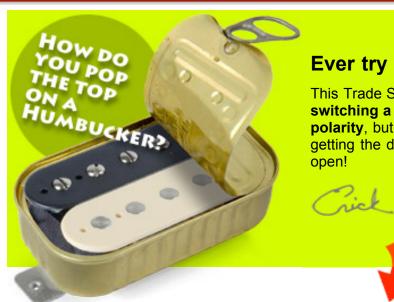
From: "Stewart-MacDonald" <enews@info.stewmac.com>
Subject: How to open a humbucker and reverse the polarity

Date: September 4, 2008 6:56:52 AM PDT To: stephensdesign@opendoor.com

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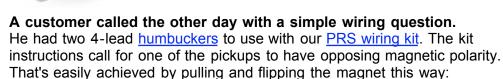


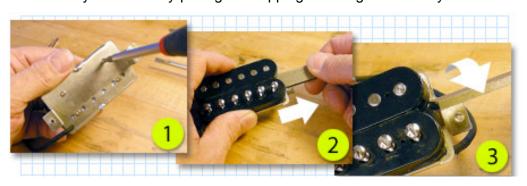
Ever try to open a humbucker?

This Trade Secret is about switching a humbucker's polarity, but the hard part is getting the doggone pickup open!











- (1) Loosen the <u>polepiece screws</u> so they clear the baseplate, then loosen the <u>bobbin screws</u> a bit so the magnet slides out (2). Be careful so you don't damage any of the delicate connection wires.
- (3) Roll the magnet over, flipping it 180 degrees. This is the move that switches the polarity.



Re-install the rotated <u>magnet</u>, sliding it back where it came from. Simple enough, right?

That's how I described the job to the customer. But then he asked, "But how do I get the darn cover off?"

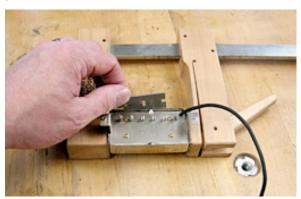
Let me show you how I do it...





Removing the cover from a humbucker can be tricky.

Generally, the <u>cover</u> is soldered on. Removing it is even a little risky, because it's easy to damage the coil (don't ask how I know!!!). To do this you'll need two clamps, a razor blade and a soldering iron.



I like to hold the pickup in a cam clamp while I'm working on it. The cork lining in the jaws doesn't mar the plating.

While your soldering iron heats up, insert the corner of a single-edge razor blade between the cover and the baseplate of the pickup.



It only takes a touch of the hot iron to melt the solder. As soon as it does, carefully work the blade between the cover and baseplate just enough to keep the solder joint apart while the solder hardens.

When the solder cools, the blade slides right out. Do this on both sides, of course.





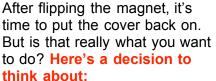
Covers For Humbucking Pickups



Cam Clamps



The <u>cover</u> is now loose and ready to come off.







Golden Age Humbuckers with gold covers

MORE...

Cover your pickups or let them run around naked?

Since the cover itself creates some capacitance, it can take the edge off the sound of the pickup. Some players prefer the brighter sound of an uncovered pickup, so they leave the covers off. That's why we offer our Golden Age Humbuckers in no-cover versions like the "Zebra" at right.



Golden Age Zebras with exposed coils

MORE...



For those of us who like the sweet sound of a covered pickup, here's a quick way to put it back on.

I use a <u>mini cam clamp</u> to make sure the cover fits to the pickup as tightly as possible.





I'll then use my medium clamp to bring the sides in tight against the <u>baseplate</u>.







When the sides are clamped, remove the mini cam. A quick touch of a hot soldering iron will flow the existing solder together and secure the cover back in place.





When the solder has cooled, remove the clamp and your reversed-polarity pickup is ready to wire up in PRS fashion!



Problem-solving products mentioned above:



Magnet Polarity Tester A very useful tool for troubleshooting and testing pickups and wiring.

\$8.95

Buy Now



Humbucker Kit

Assemble and wind your own humbucking pickups with our vintage-style kits.

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Guitar Tech Screwdriver Set

Our versatile 19-in-1 set especially for fretted instrument hardware. A Stewart-MacDonald exclusive.

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Mini Cam Clamp

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Wiring Kit for Paul Reed Smith

Rotary switch with all the components for wiring a PRS guitar. Complete with a wiring diagram.

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Cam Clamps

Cam clamps are a favorite of all types of woodworkers and they come in very handy in lutherie as well. We offer high-quality clamps in two sizes.

4-1/2" throat

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