

Flip the guitar over and remove the backplate behind the control knobs. (Leave the smaller, round plate alone. That is for the toggle switch.)

around the joint. Don't add so



The two pots on the left control the volume. The top is for the neck pickup and the bottom is for the bridge pickup. The two pots on the right control the tone. The top is for the neck pickup and the bottom is for the bridge pickup.



TIP: If you have a digital camera, snap a few shots of the controls. If not, make a good sketch of what you see.

There is a thick black wire coming from the pickup cavity to the treble volume pot. Two thinner wires extend from the end of the black wire at the volume pot. One of these thinner wires will be soldered to the back of the pot. This is the ground wire for the treble pickup. The other thinner wire will be soldered to the lowest lug on the side of the pot. This is the hot wire for the treble pickup. In the photo, the ground wire is bare and the hot wire is white.



## **Removing Old Pickup**

2. Be sure that your soldering iron is hot and clean (see sidebar for basic soldering tips). Lightly touch the tip of the hot soldering iron to the solder that holds the ground wire to the back of the volume pot. It should come loose almost instantly. Do the same to detach the hot wire from the lug. You have disconnected the pickup from the controls.

much that it makes a blob. Gently remove the iron and keep the joint still until the solder cools. The joint should be clean and shiny. If it is dull and grainy, reheat and reflow the solder. If you add too much solder, use the solder removal tools listed above.





3. Flip the guitar over and remove the four screws from the pickup bezel and lift the entire pickup assembly out, carefully pulling the wire through the channel in the body. Now that the pickup is clear of the guitar, remove the two screws that hold the pickup in the bezel and use them to attach the bezel to the new Gibson pickup you have chosen. It can be a little tricky at first to screw the pickup to the bezel because of the spring tension.



4. Gently thread the wire of the new pickup through the body channel and into the control cavity, coiling any extra wire length neatly into the cavity. Fasten the pickup back onto the guitar using the four screws of the bezel.







# **Installing New Pickup**

### Vintage two-conductor wiring

If you are installing a vintage-style pickup, like the '57 Classic, Burstbucker, P-90, or P-94, it really couldn't be easier.



Strip back the shield (wire mesh) to reveal the hot lead wire. Strip the end of the wire back 1/8" using your wire stripper or a razor blade. "Tin" the wire by touching the tip of the soldering iron to the exposed lead and applying a little solder to soak in between the strands. This will make the rest of the installation a lot easier.







Solder a small portion of the shield wire to the back of the volume pot by heating the pot with the iron and using a flathead screwdriver to hold the wire down while adding solder. If there is already a decent-sized blob of solder left from the old pickup, that should be plenty to reattach the ground wire of the new pickup. If you add more, you may have too much solder on the pot. Give the solder a few seconds to cool, then gently pull on the wire to make sure you have made a strong connection.



Solder the hot lead to the same lug on the terminal that the old pickup's hot wire was attached to: Slip the end of the lead wire through the hole in the lug, touch the iron to the lug, and melt a drop of solder onto the lug to attach the wire. Again, when the solder cools, gently tug on the wire to be sure the connection is secure.

#### Modern four-lead wiring

If you are installing a modern pickup like the Tony Iommi, Dirty Fingers, or 500T, there is one extra step. Modern pickups have four lead wires instead of two, in order to enable coil splitting (the use of only one of the humbucker's two coils for more of a—you guessed it—*singlecoil* sound. Coil splitting is for another lesson, so for now all you have to do is twist the green and white wires together, tape them off, and forget about them. Twist the black wire and the bare wire together, tin the end, and solder to the back of the volume pot. Solder the hot wire to the lug just as described in the two-conductor wiring instructions.

#### You have just installed a new pickup!

Before closing the back plate, plug the guitar into the amp and lightly tap on the pickup with your screwdriver. If installed correctly, you will hear your tapping through the amp.



Close up the backplate, restring your guitar, tune, and play. Adjust the height of the pickup to find the sweet spot, the height that sounds best to your ears. If the pickup is too close to the strings, it will sound muddy and distorted (in a bad way). If it is far away from the strings, it will sound weak and you will lose tone. Take your time and use your ears.



Congratulations on a job well done.



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