The Wide Range Humbucker guitar pickup used in many of Fender's guitars has two separate pickup coils. Although some of these pickups were factory wired to be true 4-wire humbucker pickups, the majority of these pickups are now wired as a 2-wire pickup. This document describes the simple procedure to modify the 2-wire version of this pickup so that it is a true 4-wire humbucker pickup.

Cables to modify these Wide Range Humbucker pickups are included with our upgrades for the 72 Telecaster Thinline Reissue, 72 Telecaster Custom Reissue and the 72 Telecaster Deluxe Reissue upgrade. Two lengths of cables are provided. The 14” (35.5cm) long cable is for the Neck pickup and the 12” (30.5cm) long cable is for the Bridge pickup.

**Tools You Need**

You need the following tools to perform this conversion.

- 30 watt soldering iron
- 60/40 rosin core solder
- Wire strippers
- Screwdriver
- Pliers (adjustable)

**Conversion Procedure**

1. Remove your existing Wide Range Humbucker pickup (or use a spare). Here is what it looks like (top view).
Here is what it looks like (bottom view).

2. Using a flat blade screwdriver, pry up the two cable clamps to free the cable.

3. Remove the cable from underneath the clamps.
4. Using the soldering iron, desolder and remove all four wires and the bare wire attached to the cable clamp.

After removing all wires, heat each of the four terminals to cause the solder to be liquid and quickly bang the pickup on a flat surface to evacuate all solder from the terminal holes. Your four terminals should have clear holes in which to place the new wires.

**Note:** the pickup coil *(very fine)* wires are wrapped around the outside of each terminal several times. Do NOT disturb these wires.

5. Take the provided cable and use the wire strippers strip off 2.5" (6.4cm) of the outer sheath insulation.

6. Four insulated wires, bare wire and shield are exposed. Remove the foil shield.
7. Using wire strippers, remove 3/16" (5mm) insulation from the end of all four insulated wires.

8. Tightly twist each of the four exposed wires and use the soldering iron to "tin" the wires.

9. At the other end of the cable, use the wire strippers strip off 2.5" (6.4cm) of the outer sheath insulation. Remove the cable insulation sheath and foil shield. Strip insulation from four wires and lightly "tin" each bare wire end. This end of the cable will be connected to the our upgrade switch product.
10. Attach the wires to the terminals of the pickup using the wire colors shown.

**VERY IMPORTANT NOTE:**

Use only the wire color scheme shown in the picture. Correct operation and control of each pickup coil depends on using this color scheme.

11. Prepare the cable to go under the cable clamps.

12. Cut the uninsulated bare wire so 1/2" (12.7mm) remains. Solder and "tin" the end of this wire.
13. Solder the end of the bare wire to the cable clamp where the original bare wire was soldered.

14. Slide cable under the two cable clamps.

15. Use adjustable pliers (with wider jaw setting) to snugly crimp down the cable clamps around the cable.
16. Adjustable pliers in wide jaw setting will use the pickup cover edge as an "anchor" to crimp cable clamps.

17. Before cable clamp is crimped down.
18. After cable clamp is crimped down.

19. Neatly dress down all wires to lay flat.
20. Use an ohmmeter to test for continuity of both pickup coils wire pairs. Results will be around 4.08K ohms.

We use these wire color codes for Wide Range Humbucker pickup.

**North Coil:**
Green ( + ), White ( – )

**South Coil:**
Black ( + ), Red ( – )

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**Nice To Know**

Other Fender 4-wire humbucker pickups that use the same wire color scheme:

- Atomic
- Enforcer
- Shawbucker
- Tex Mex

For additional wiring details, go to  http://www.AweSome-Guitars.com/docs