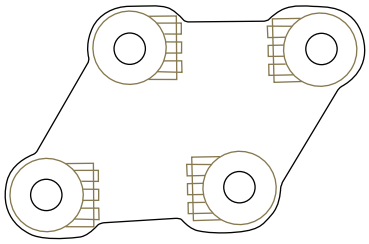
Gibson® Les Paul®
50's Wiring Instructions
2 Conductor/Braided

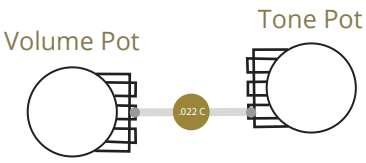
LegendTone.com™
Wiring Diagram & Instructions

Step-by-Step Instructions

1. **Assemble all components (pots) on to the grounding plate.** Before inserting the pot onto the plate, add 1 nut to each pot and tighten it so that it is approx. 1/4" to 3/8" from the bottom of the pot shaft. (This gap or space is correct.) Push each pot (shaft) through the grounding plate, then add 1 lock washer, 1 flat washer, and finally the last nut to the pot (Over the plate). *TIP: Some prefer to add the lock washer before adding the grounding plate. This is okay and a matter of preference.*

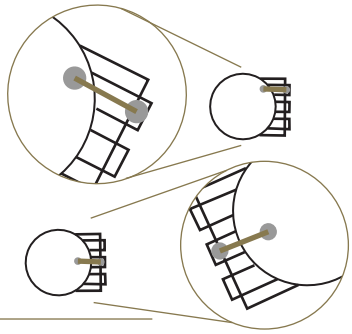


2. **Install the tone capacitors by soldering them between the volume and tone pots.** Solder one leg to the 2nd lug of the volume pot, then solder the second leg to the 3rd lug of the tone pot. *TIP: The layout of the capacitor does not matter. Some prefer to install the capacitor legs straight and some prefer to bend them to a z-like pattern. This won't impact the sound.*



3. **Connect the volume pots 3rd lug to ground by bending and soldering the lug directly OR by using ground core wire.** *TIP: Use the extra, cut capacitor leg from the previous steps. This is the preferred method.*

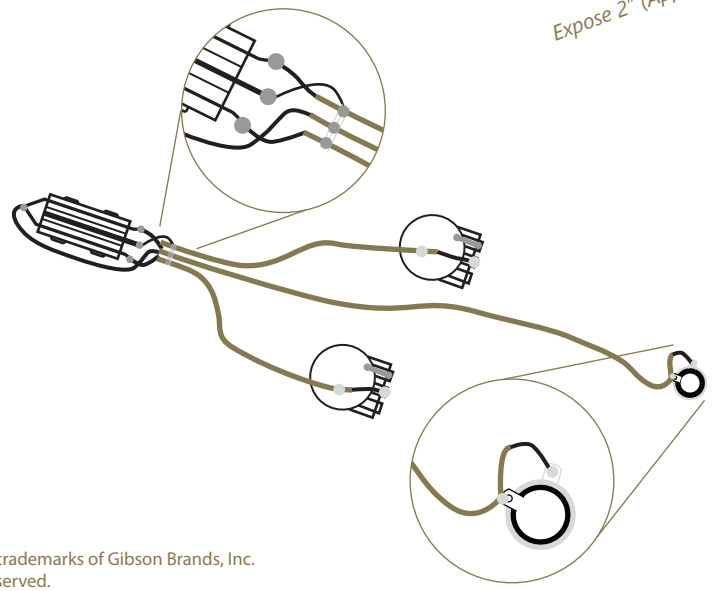
4. **Connect the tone pots 2nd lug to ground by bending and soldering the lug directly OR by using ground core wire.** *TIP: Use the extra, cut capacitor leg from the previous steps. This is the preferred method.*



5. **Prepare 3 braided wires by cutting each to 18" to 19" in length. (55mm).** Measure and cut each wire to length, then using wire strippers remove 1" (approx.) of the braided shielding cover to expose the black cloth, push-back wire on each end. On 1 wire on 1 end, remove 1.75" to 2.25" of braided cover. This will be used to connect the switch output to the input/output jack later. *TIP: Take your time and be careful to not over-cut the braided cover too much. If any braid 'tears' or cover strands remain, cut these strands off for the best results.*

6. **Connect the Neck and Bridge braided wires to the toggle switch lugs.** Refer to the reference diagram for the location of the neck and bridge wires on the switch. Do this outside of the guitar for best results. *TIP: Mark the bridge and neck wires to easily locate each later during installation.*

7. **Connect the switch output using last prepared braided wire. The wire should be soldered to the toggle switch output.** *TIP: Use the wire with the extra exposed black wire on the switch end. Refer to the digram on the right. This wire will be connected at a later step to the positive lug on the input/output jack.*



Reference

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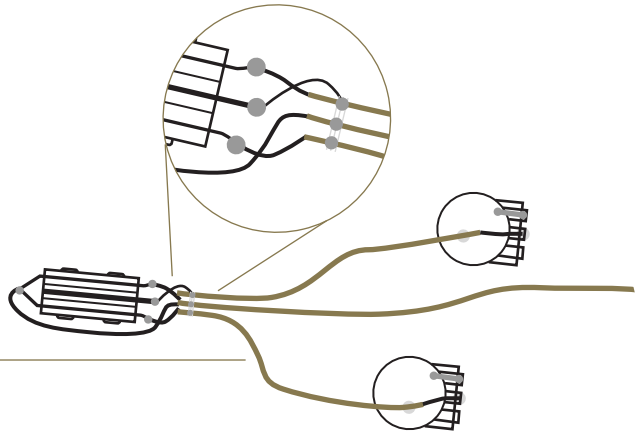
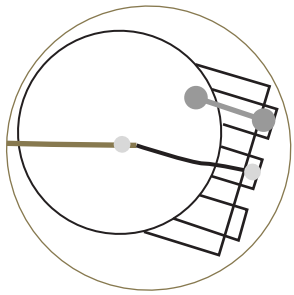


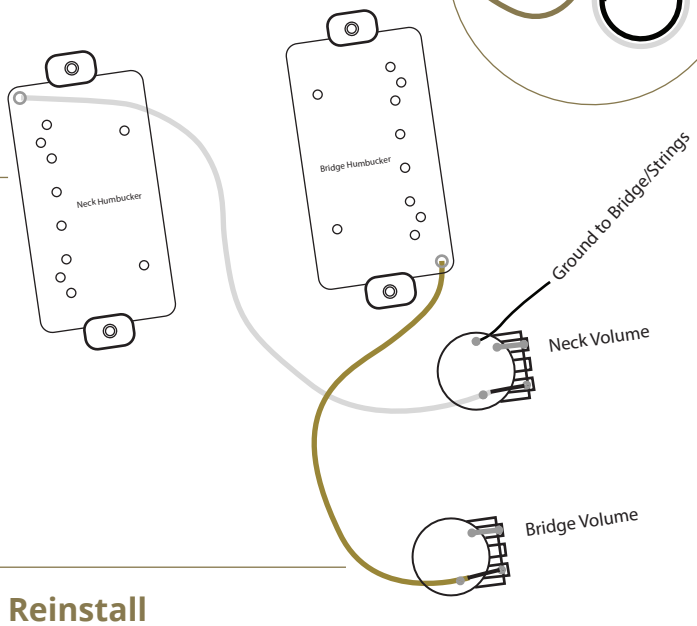
8. **Ground the toggle switch by adding a wire from the ground lug on the switch to the braided cover/shield on all 3 wires.** *TIP: Using a separate jumper wire, remove enough of the cloth to wrap the exposed wire around all 3 braided wires 3 times. Once wrapped, solder multiple points to form a connection between the braided wire and the wrapped wire. After soldering, applying heat shrinkwrap is recommended to prevent unwanted ground issues.*

9. **Install the toggle switch and wires into the guitar.** Route the 3 braided wires through the guitar toggle switch cavity, through the channel, to the main control cavity.



10. **Connect the Neck and Bridge braided wires to each volume pot 2nd lugs.**
    a. Solder the neck toggle wire to the 2nd lug on the neck volume knob then solder the braided wire cover to the top of the neck volume pot.
    b. Solder the bridge toggle wire to the 2nd lug on the bridge volume knob then solder the braided wire cover to the top of the bridge volume pot.

11. **Connect the braided switch output wire to the terminal lugs on the input/output jack.** *TIP: The outer ring/lug is the postive (connect the black, expose cloth wire) and the inner ring is the ground (solder the braided wire cover to this lug.) Some prefer to attach a jumper wire and wrap/solder to the braided wire.*



12. **Connect the pickups to each volume pot by soldering humbucker wires to lug 1 on each pot.**
    a. Solder the neck pickup wire to the 1st lug on the neck volume knob then solder the braided wire cover to the top of the neck volume pot.
    b. Solder the bridge pickup wire to the 1st lug on the bridge volume knob then solder the braided wire cover to the top of the bridge volume pot.

13. **Connect the ground from the bridge/strings by soldering to the top of the neck volume pot.**

You have completed the wiring on your guitar. Reinstall your pick guard and enjoy your new tone.

Notes: The capacitor values do not change the wiring. These instructions and diagrams will work correctly with any cap values. (e.g., .022uF, .047uF, .05uF, .1uF). If you are using the included ground plate, no additional grounding or ground wire is required. All components are grounded to the plate.

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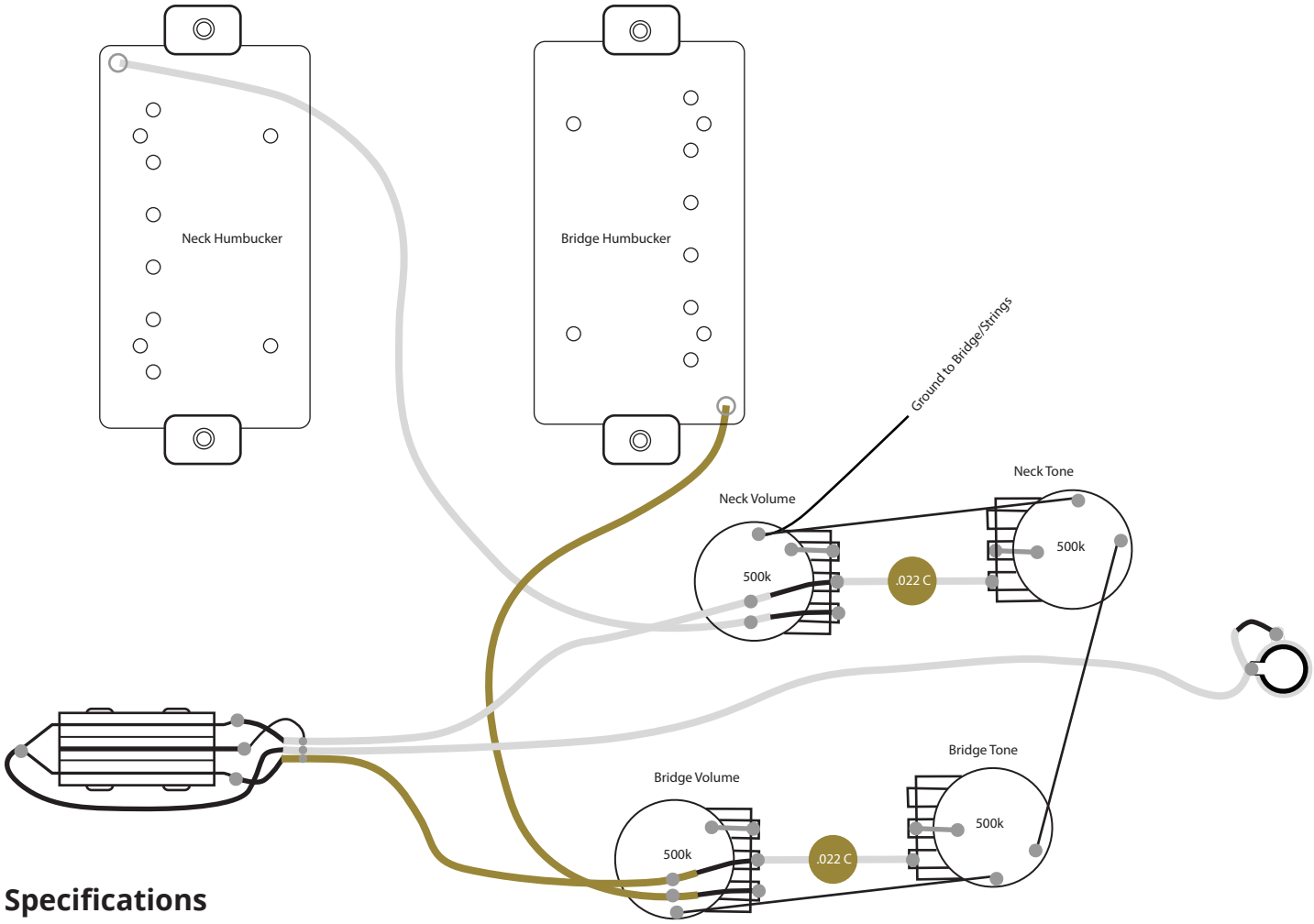
Wiring Diagram



Specifications

Gibson® Les Paul® 50's Wiring (Vintage)
2 Conductor/Braided

Pickup Configuration
Neck: Humbucker
Bridge: Humbucker

Control Configuration
Volume (Neck): 500k
Tone (Neck): 500k
Volume (Bridge): 500k
Tone (Bridge): 500k

Switch: 3-Way, Toggle
Capacitors: .022uF
Input/Output: Mono Jack

Switch Positions

3-Way Toggle Position	3	2	1
Neck	●	●	
Bridge	●	●	
Tone Control(s)	T1	T1 & T2	T2