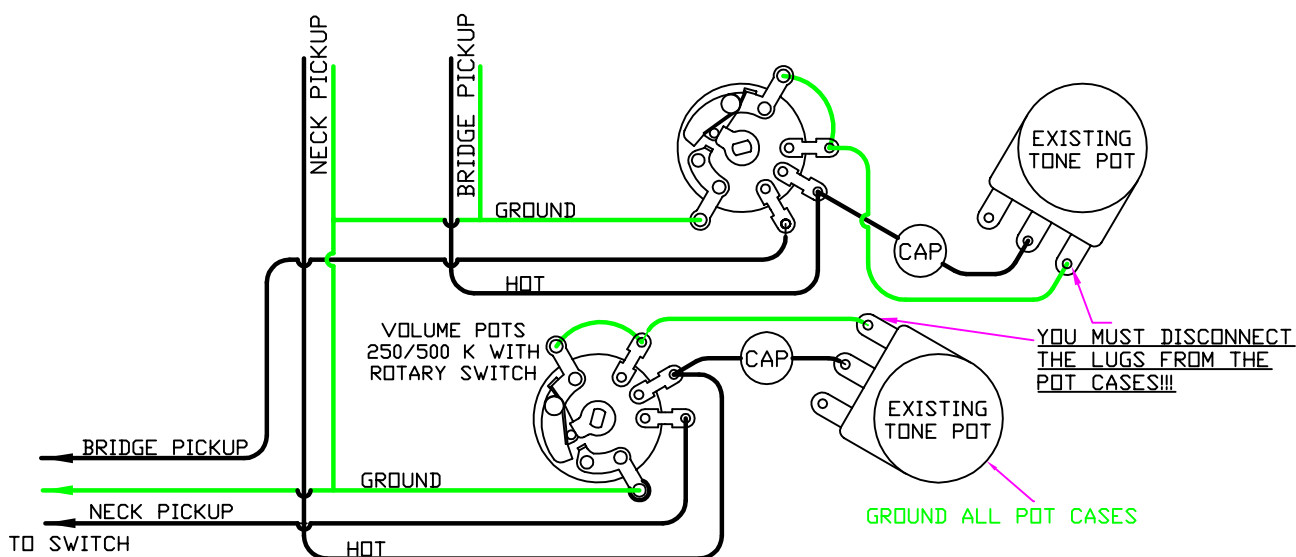


BYPASS VOLUME POT

WIRING INSTRUCTIONS FOR LES PAUL STYLE GUITARS

NS DESIGN
DECEMBER 1, 2010

PATENT PENDING



1. Disconnect existing volume pot from circuit.
2. Disconnect the ground lugs from the pot cases on the existing pot cases.
(If the lugs are connected to ground, the bypass switch will have no effect.)
3. All other components and wiring should remain unchanged.
4. Wire in the new ByPass volume pots as drawn.
5. All 4 pot cases should be connected to ground to minimize hum. However, no lugs on any of the pots should be permanently connected to ground, as this will override the effect of the bypass switch.

When the ByPass volume pot is wired correctly, the switch at full clockwise rotation lifts the ground for itself and the associated tone pot, thus eliminating pot loading for improved high end response. If both pickups are switched on simultaneously, both volume pots must be switched to bypass mode to be effective. This is equivalent to wiring the pickups directly to the jack, so rotating the the tone knobs will have no effect.

The ByPass pot operates exactly like a conventional pot until the switch is activated. The sound you hear before the bypass switch kicks in is the limit for an ordinary pot.