

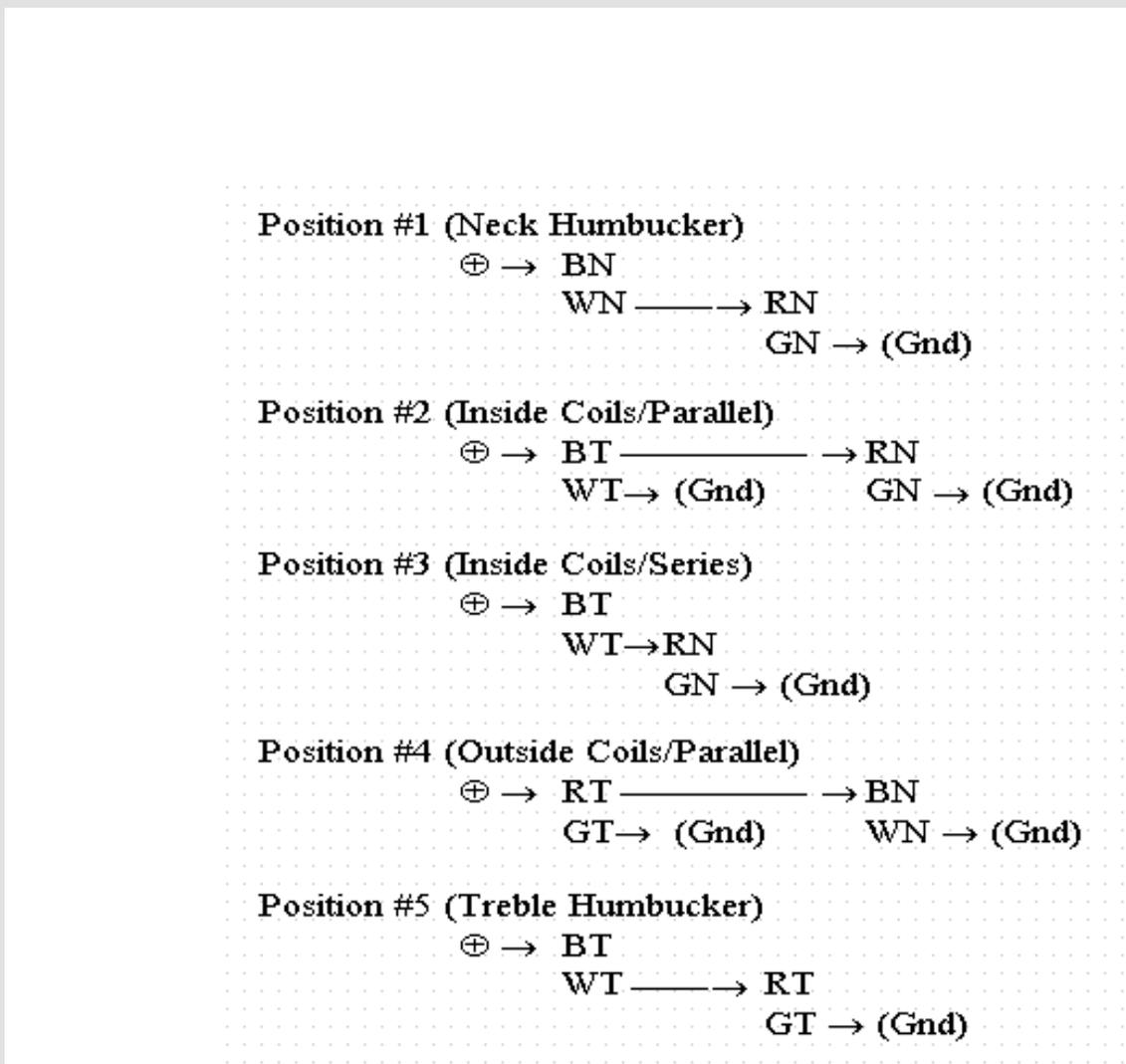
PRStrat Wiring Harness

(for 2 Humbuckers)

Designed by Steve Ahola 1997

The PRStrat wiring harness duplicates the pickup combinations of the newer PRS guitars with a 5 position rotary switch. A 4-pole 5-position strat-style selector is used (All Parts # EP078).

The following chart illustrates the 5 switch positions and the specific linkages used:



Notes: The letter codes refer to the Seymour Duncan color codes:
The 1st letter represents the color (B=Black; W=White; R=Red; G=Green)
The 2nd letter designates which pickup (N=Neck; T=Treble)

CONSTRUCTION NOTES:

For the parallel and series linkages to be hum-cancelling, the magnetic polarities of the 2 coils used need to be opposite to each other. This can be tested using a small bar magnet and noting which coils attract one end of the magnet and which coils are repelled by it. To reverse the polarity of a humbucker with traditional PAF construction, carefully remove all of the screws holding it together and flip the magnet 180 degrees (rotating it around the long axis). You can use the bar magnet to confirm that the polarities were indeed reversed. After reversing the magnet and reassembling the pickup, you then need to invert the pickup leads. Rather than desoldering the connections at the pickup end, I suggest that you mark the other end of the cable and just mentally substitute the colors when you are wiring it up. (Colored-coding the leads with 1/16" heat shrink tubing would work even better.)

Before soldering the leads to the selector switch, I would suggest that you test out the combinations using micro-test clips (Radio Shack# 270-355) and a test cable that you can plug into your guitar amp. The color codes used in the diagram are for a set of Seymour Duncan Hot Rails neck and Cool Rails bridge pickups; the pickups you use may be different so you may need to reverse or substitute leads. When wired up properly, the parallel and series linkages should be hum-cancelling and in-phase.

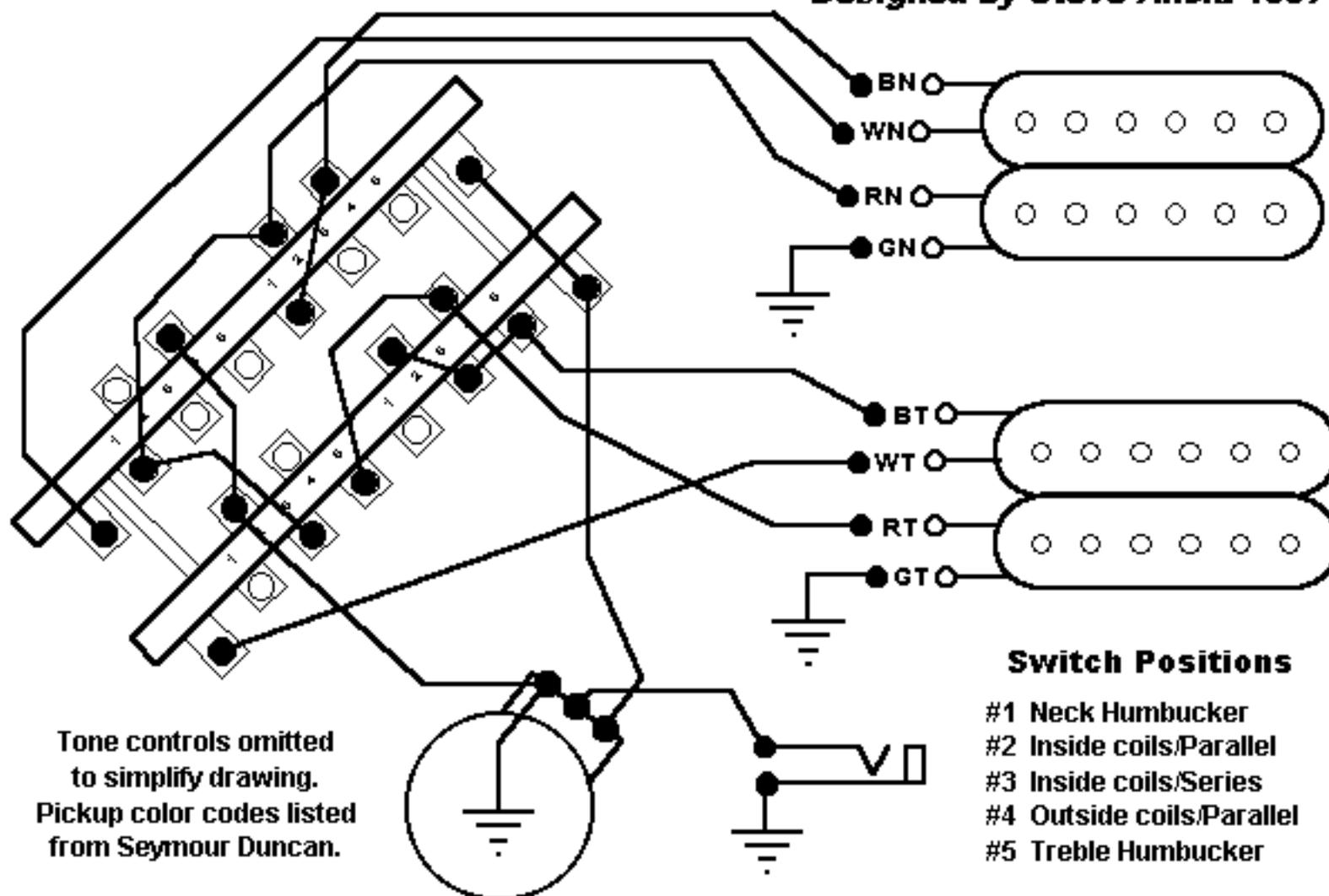
Steve Ahola
November 1997
(Revised 3/14/98)
steve_ahola@yahoo.com
<http://www.blueguitar.org/>

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Tone controls omitted to simplify drawing.
Pickup color codes listed from Seymour Duncan.

Switch Positions

- #1 Neck Humbucker
- #2 Inside coils/Parallel
- #3 Inside coils/Series
- #4 Outside coils/Parallel
- #5 Treble Humbucker