

# Determine the wires of an unknown 4 wire humbucker with the N-audio guitar pickup phase tester

**1**

Top  
Bottom

Two single coil pickups form a humbucker with 4 wires.

**2**

TAP HERE Top  
Bottom

Both LEDs are OFF

Connect one of the wires to the hot (tip) of the tester and all others to the negative pin. Use a sharp cutter or a flat screwdriver and tap to the poles to generate a peak.

**3**

TAP HERE Top  
Bottom

Red LED indicates negative phase

Tap to one and then to the other half of the pickup, looking for LED blink. Ignore the LED color for now. When there is a peak you know one wire of the corresponding section.

**4**

TAP HERE Top  
Bottom

Red LED indicates negative phase

Start taking out wires from the negative end one by one. Tap every time when took out a wire until there is no led activity.

**5**

TAP HERE Top  
Bottom

Both LEDs are OFF

When there is no LED indication, the second wire for the corresponding pickup is the last one when there was LED blink. In this case, this is wire B.

**6**

TAP HERE Top  
Bottom

Green LED indicates negative phase

Arrange the wires until the green LED turns on. Draw this on the pickup sketch. The black dot shows the positive /in phase/ ends.

**7**

TAP HERE Top  
Bottom

Red LED indicates negative phase

Do the same procedure finding the phase of the second half of the humbucker.

**8**

TAP HERE Top  
Bottom

Green LED indicates negative phase

When the green LED is on, complete the sketch as shown.

**9**

Top  
Bottom

Output

Humbucker/  
Single switch

There are two solutions for wiring and both of them are correct. The difference is which portion of the humbucker is muted in a single switch position. Usually, the active single should create hum canceling with the middle position pickup on the guitar.