

Humbucking Pickup

**Welcome and thank you for choosing Fokin Pickups product!**

Please read this guide carefully before you start. In this document you'll find detailed info about the pickup, how it works, and how to install it. So, let's begin!

**How does humbucker work?**

The humbucking pickup consists of two close located coils that usually are connected in series. The main feature of the humbucker is that its coils are wound in opposite directions, while their magnetic cores have opposite polarities, which results in significant interference suppression and signal increase. Thus, the humbucker gives you high signal level and low noise at the same time.



In general, humbuckers are recommended for use with high signal amplification equipment and effects (such as overdrive, fuzz, distortion etc).

All Fokin humbucker models have individual coil tap wires, which allows you to use any type of coil connections: in series, parallel or coil-split.

**Can I install the pickup by myself?**

Yes, humbucker installation is relatively easy, but you'll need some tools and basic soldering skills. If not, we strongly recommend you to have a qualified guitar tech to properly install your pickup, because any damages caused by improper installation are not covered by our warranty.

**Basic pickup installation steps:**

- 1 (In case of pickup replace) Remove the strings from your guitar, remove the backplate to achieve an access to the wiring. Remember the original wiring scheme. Carefully de-solder the original pickup wires and remove the pickup.
- 2 While running Fokin pickup's wire to the wiring place, mount the humbucker to the guitar body or pickguard. **Important:** Humbucker up-down orientation doesn't affect the sound, so you can place it as you wish, regarding optimal cable placement and desired Fokin logo location.
- 3 There is no need in excessively long pickup cable, so we recommend to cut it to length that optimal for setup.<sup>1</sup>  
*Keep in mind the main rule about signal cables: shorter is better!*
- 4 Strip the wire tips, tin, and then solder them in accordance with desired wiring scheme (see "Humbucker Wiring" chapter).

**Please Note!**

Any damages or failures caused by modifications, disassemble, protective tape removal, original wire replace, magnets and magnetic cores replace, coil unwinding or wind cable cleaning or soldering etc, ARE NOT covered by warranty.

**Uh, something went wrong...**

The table below shows common pickup installation problems and their solutions:

<b>No signal</b>	Make sure that pickup wires are properly soldered / insulated. Please check the insulation between the signal wire and ground.
<b>Weak or dull signal</b>	Make sure that your potentiometer resistance is 500 KOhm or higher. Please check the insulation between the signal wire and ground. Check the connection between bare wire and ground.
<b>Noise or hum</b>	Check your guitar cable. Make sure that your AC outlet has proper grounding.

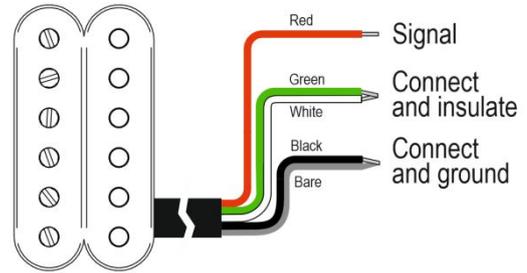
<sup>1</sup> We recommend to cut pickup wire 14 days after pickup receipt in order to maintain your right of it's return or exchange.

**Humbucker Wiring**

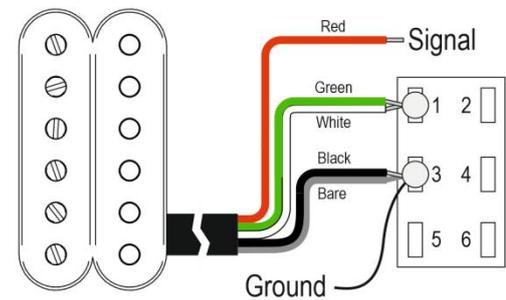
All Fokin humbuckers have the following wire color codes:

● Red	○ White	● Green	● Black	Bare
North Coil Start	North Coil Finish	South Coil Finish	South Coil Start	Chasis (Ground)

The most common humbucker coils connection type is **in series**. In order to do this, you must connect Finish taps of its coils (see diagram below):



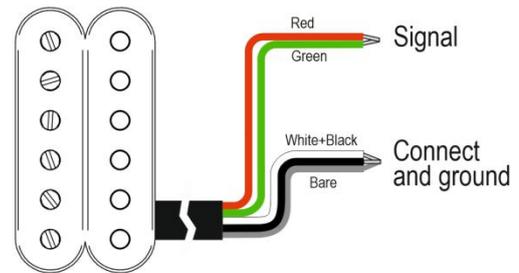
This type of connection allows you to add **coil-split** function into your guitar, which make the humbucker sound like single-coil pickup. In order to bypass one of humbucker's coils, you must connect its taps to the ground, using any type of electrical switch, including common On/On switches or Push/pull potentiometers:



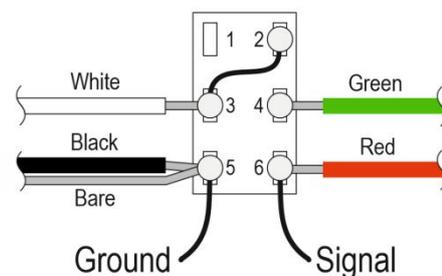
Connection between pins 1 and 3 results in bypassing of South coil.

Please keep in mind that there is no noise suppression while the humbucker is in coil-split mode, which leads to increased noise level, and the signal level drops noticeably.

Another type of the humbucker coils connection is **parallel**, which results in slightly decreased signal level, but more transparent tone of your instrument:



Furthermore, you can add another On/On switch or Push/pull potentiometer into your guitar that will allow you to easily switch the humbucker between parallel and in series modes. The diagram below shows the switch pinout wiring:



Connection between pin pairs 1-3 and 2-4 results in series mode, while connection between pin pairs 3-5 and 4-6 results in parallel mode.

If you still have any questions, please contact us: [support@fokinpickups.com](mailto:support@fokinpickups.com)