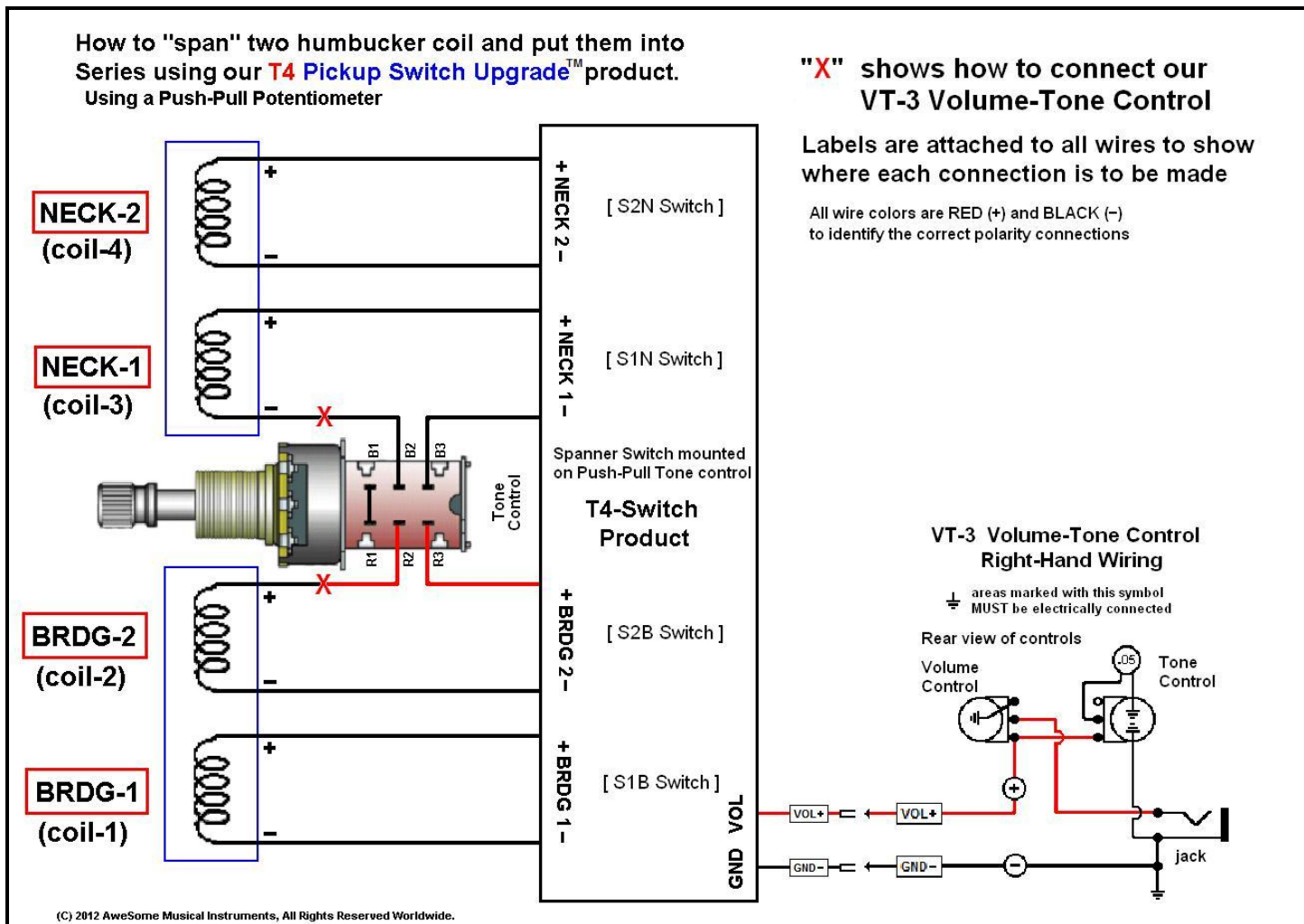


Our T4-Switch product (*REV C*) lets you directly control four separate pickup coils with an HH, HSS or SSSS pickup configuration to give you 68 unique pickup tones. By using a push-pull potentiometer, you can *span* the two inner pickup coils and get 20 *additional* unique pickup tones for a total of **88 pickup tones** on a single instrument. Now you can directly put all four pickup coils in series to get incredible *jaw-dropping* pickup tones! You must use true **4-wire humbucker pickups**.

The push-pull potentiometer of our **VT-3 Volume-Tone Control** assembly lets you put Coil-2 and Coil-3 into a series circuit and get 20 *additional* unique pickup tones – for a total of **88 pickup tones** on a single instrument with our T4-Switch. Further, now you can directly put all four pickup coils in series to give you incredible **QuadraBucker™** pickup tones that are so “Fat”, they are... **OBESE!**

A. How It Works

Using the switch function of the push-pull Tone control (*see our VT-3 Volume-Tone Control product*), you can electrically put the two inner pickup coils in series. The push-pull Tone control is wired into the BRDG-2 (+) and NECK-1 (-) T4-Switch connections. The push-pull pot has two positions. With the Tone control shaft IN, the BRDG-2 and NECK-1 pickup coils are directly connected to the T4-Switch. Pulling the Tone control shaft OUT puts the BRDG-2 and NECK-1 pickup coils into a series circuit to give you 20 additional pickup tones.



In the above graphic, “Neck-1” and “Neck-2” represent the two coils of a 4-wire humbucker pickup. If you have a 4-wire humbucker pickup in the Bridge position and two single-coil pickups, then “Neck-1” will be the Middle single-coil pickup and “Neck-2” will be the Neck single-coil pickup.

This added capability lets you enhance your existing “palette” of pure analog pickup tones with incredible pickup tones that are so fat, they’re obese. These are amazing pickup tones that let you put three coils in series to produce several TroikaBucker™ pickup tones (labeled “T”). You can also put all four pickup coils in series to produce several QuadraBucker™ pickup tones (labeled “Q”) – incredible and unique pickup tones that are unavailable on other instruments.

IMPORTANT Note: There are some rules when using this VT-3 enhancement. When the Tone control is in the OUT position, the mini toggle switches S2B and S1N that control the affected pickup coils (i.e., BRDG-2 and NECK-1) MUST both be in normal (Down) phase. If you put either or both of these switches in the reverse phase (up) position or in the off position, no sound is produced by this special series connection.

B. Switch Table For The Added Tones

This Switch Table shows the additional pickup tone combinations that you will get when our VT-3 Volume-Tone control is used with our T4-Switch (REV C). See document #C on our website Document Library page for the first 68 pickup tone combinations.

Note: Switches S1N and S2B MUST both be on and in the DOWN position when your coils are Spanned.

##	NECK Control			Tone Pot shaft is	BRDG Control			Your Description Of The Pickup Tone
	S2N	S5N	S1N		S2B	S5B	S1B	
69.			D	OUT	D			69. _____
70.			D		D		D	70. _____
71.			D		D		U	71. _____
72.			D		D	U	D	72. T _____
73.			D		D	U	U	73. T _____
74.	D		D		D			74. _____
75.	U		D		D			75. _____
76.	D	U	D		D			76. T _____
77.	U	U	D		D			77. T _____
78.	D		D		D		D	78. _____
79.	D		D		D		U	79. _____
80.	D		D		D	U	D	80. _____
81.	D		D		D	U	U	81. _____
82.	U		D		D		D	82. _____
83.	D	U	D		D		D	83. _____
84.	U	U	D		D		D	84. _____
85.	D	U	D		D	U	D	85. Q _____
86.	D	U	D		D	U	U	86. Q _____
87.	U	U	D		D	U	D	87. Q _____
88.	U	U	D		D	U	U	88. Q _____

Visit our website’s (<http://www.AweSome-Guitars.com>) Document Library for more useful wiring tips. We have an extensive product catalog of assembled components to help you transform your dreams into reality.

IMPORTANT Notes About 4-Wire Humbucker Pickups

Most 4-wire humbucker pickups are made to be *Symmetrical*. This means that the two coils of the humbucker pickup package are identical (*i.e., same impedance/resistance*). Although not necessarily bad in itself, when each of the two coils are separately controlled the lack of versatility and performance becomes clear. Turn on one of the coils by itself and get a pickup tone. Separately turn on the other coil by itself and get the exact same pickup tone. This design is an obstacle that prevents you from enjoying maximum pickup tone versatility.

When we introduced our T4-Switch in 2011, it became clear that this redundant tone from each separate identical coil of the *Symmetrical* 4-wire humbucker pickup was disappointing because it severely limited the true benefit and pickup tone versatility that our new T4-Switch product was capable of providing.

To address this major shortcoming of the *Symmetrical* 4-wire humbucker pickups, we pioneered the development of *Asymmetrical* 4-wire humbucker pickups that would give players access to a Grand Canyon Wide range of unique pickup tones.

Our criteria was to design the specifications for the *Asymmetrical* 4-wire humbucker pickups. Further, the Bridge pickup needed to be different than the Neck pickup. Each of the two coils of the newly designed *Asymmetrical* 4-wire humbucker pickup have a *differential* of about 15 percent. This means that each coil when separately turned on will produce a noticeably different pickup tone.

We also wanted the Bridge and Neck pickups to have completely different impedances/resistances to maximize pickup tone versatility.

We spent several months collaborating with the owner of **heartlandtone.com** to assist us with creating truly versatile *Asymmetrical* 4-wire humbucker pickups that harnessed the incredible versatility of our T4-Switch product and produced the maximum in tone versatility.

This genius pickup manufacturer and owner of **heartlandtone.com** is both a guitar player and custom pickup maker who is expert in technical knowledge of creating pickups.

Using our switch products, he was able to understand what our incredible products provided. More important, he also clearly knew what we wanted with this new *Asymmetrical* 4-wire humbucker pickup configuration.

The result of this collaboration is the new the true "*golden mean*" of *Asymmetrical* 4-wire humbucker pickups.

If your HSS or HH instrument has *Symmetrical* 4-wire humbucker pickups and you want to use our T4-Switch product, consider replacing them with new *Asymmetrical* 4-wire humbucker pickups from **heartlandtone.com**. Tell them you will be using the AweSome T4-Switch product.