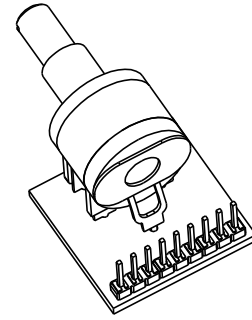


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## INSTALLATION INFORMATION

### EMG MODEL: ACTIVE BALANCE CONTROL (ABC) / B-125 (PASSIVE/ACTIVE PICKUP INPUT)

#### SPECIFICATIONS

Input Impedance (kΩ)	500
Typical Output Noise (dBV)	-130
Output Impedance (kΩ)	2.0
Current Draw (@9V (mA)	0.86
Current Draw (@18V (mA)	0.88
Maximum Supply (Volts DC)	27

#### INCLUDED:

B125 ABC Control  
Battery Clip with V+ Power Buss  
Power Supply Cable, 5.5" (Red)  
Connect Cable, 5.5" (Black/White)  
Output Cable, 6.4" (Black/White)  
Stereo Output Jack

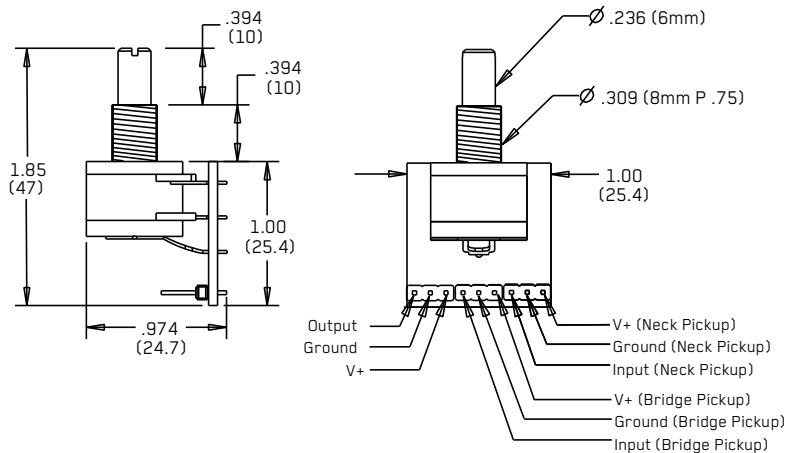
#### GENERAL OPERATION

The B125 Active Balance Control (ABC) is used to pan between two pickups, rather than relying on a selection switch. The B125 features input buffers for each pickup, so it can be used to combine 2 Passive Pickups, 2 Active Pickups, or even 1 Active pickup with 1 Passive pickup. The control has a center detent (click) in the middle of its rotation. If the combination of Active and Passive pickup signals results in a thin/weak out-of-phase sound, you may need to reverse the default wiring of your Passive pickup.

#### INSTALLATION NOTES:

The output impedance of the ABC is low, so any existing high-resistance (i.e. 250/500 kΩ) Volume and Tone controls will not work when placed after the ABC. Volume and Tone controls after the ABC should be 25 kΩ. EMG Active Accessories (VLPF, EXB, BT or BQ Controls, etc.) may also be placed after the ABC, either before or after a 25 kΩ Master Volume.

#### Dimensions: B125 Active Balance (ABC)



#### WARRANTY

All EMG Pickups and accessories are warranted for a period of two years. This warranty does not cover failure due to improper installation, abuse or damage. If upon examination the pickup is determined to be defective, a replacement will be made. Warranty replacement products are covered by this same warranty. This warranty covers only those pickups and accessories sold by authorized EMG Dealers. This warranty is not transferable.

**Installation Instructions:**  
**EMG Model: B125 ABC (Active Balance Control)**

**Existing EMG-HZ Passive Pickup installations:**

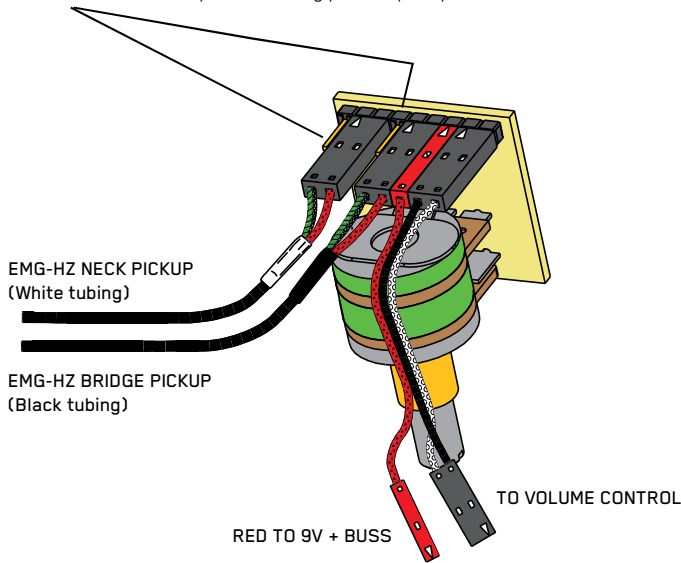
If you already have EMG-HZ Pickups in your instrument, check to see if the existing pickup cables already include solderless connectors or not.

In some cases, EMG-HZ Pickup cables may end in raw wires. This is common for EMG-HZ Pickups that came stock in certain instruments. See Page 4 for instructions on how to splice these raw wires to a new EMG solderless connection header.

Otherwise, see below for making solderless connections to the B125. The output of the ABC can be routed to a variety of configurations, some of which are shown on Page 3.

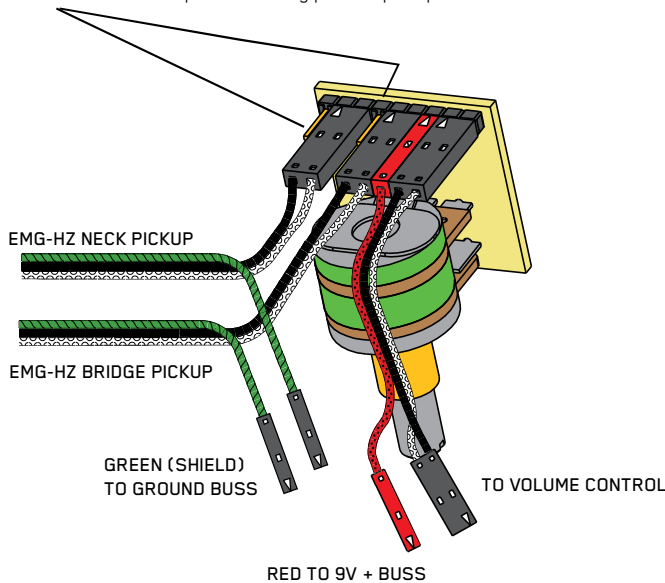
**Diagram #1**  
**EMG-HZ Pickups (Soapbar / Humbucker)**

Pins 1 and 4  
 These pins supply 9V+ for EMG Active Pickups:  
**DO NOT** use either V+ pin when using passive pickups.



**Diagram #2**  
**EMG-P-HZ /J-HZ Pickups**

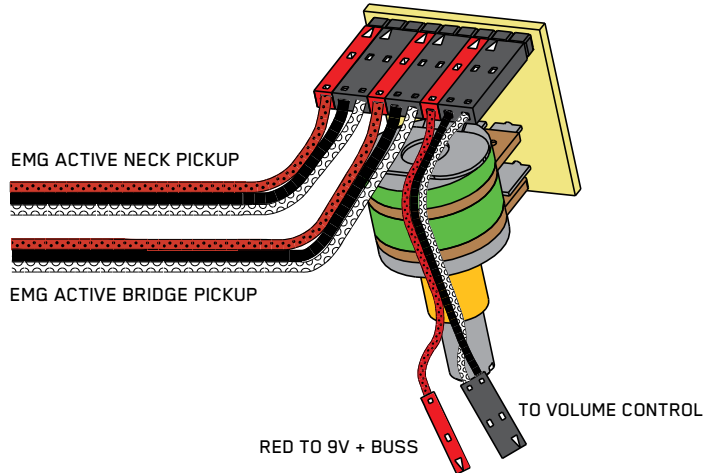
Pins 1 and 4  
 These pins supply 9V+ for EMG Active Pickups:  
**DO NOT** use either V+ pin when using passive pickups.



**Two EMG Active Pickups:**

The B125 ABC can be used to combine any two EMG Active Pickups, as shown below. In this configuration, all pins will be used.

**Diagram #3**  
**EMG Active Pickups**



**Mixing EMG-HZ or other Passive Pickups and EMG Active Pickups:**

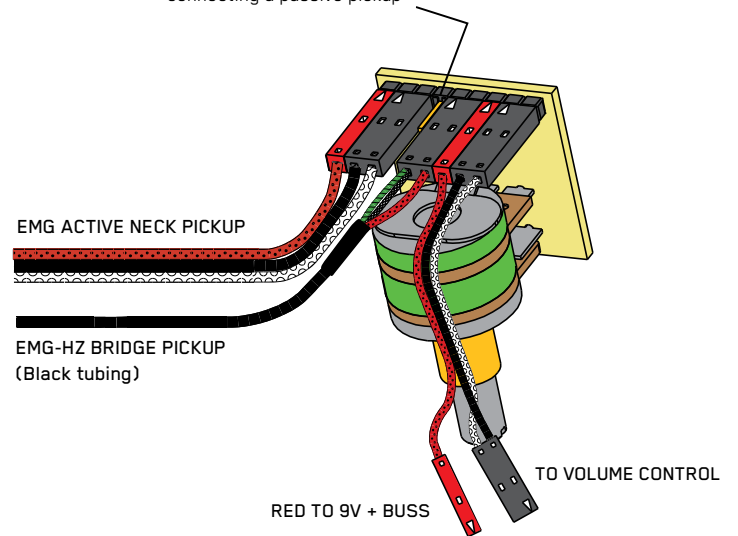
Plug the EMG-HZ or other Passive Pickup cable onto Pins 2 and 3, or Pins 5 and 6 as shown below. **DO NOT** connect any Passive Pickup wires to V+ supply Pin 1 or Pin 4.

Plug the EMG Active Pickup onto the other 3 input pins, including the V+ supply pin.

If the combination of Active and Passive pickup signals results in a thin/weak out-of-phase sound, you may need to reverse the wiring of your Passive pickup.

**Diagram #4**  
**EMG-HZ Pickup (Bridge)**  
**EMG Active Pickup (Neck Pickup)**

**DO NOT** use this V+ pin when connecting a passive pickup

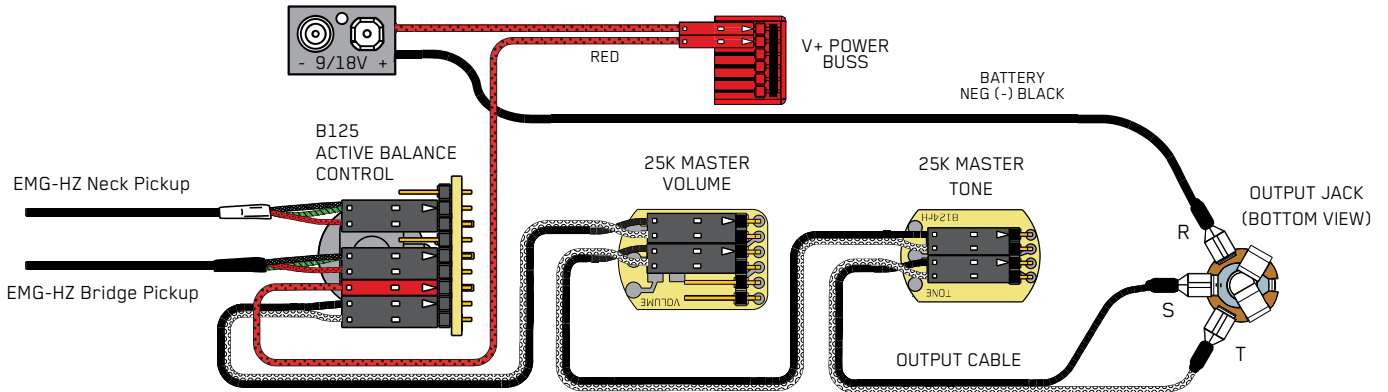
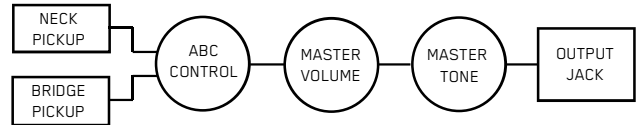


**Common Setups with B125 ABC:**

**Diagram #5**

**2 Pickups / B125 Active Balance Control / Master Volume and Master Tone**

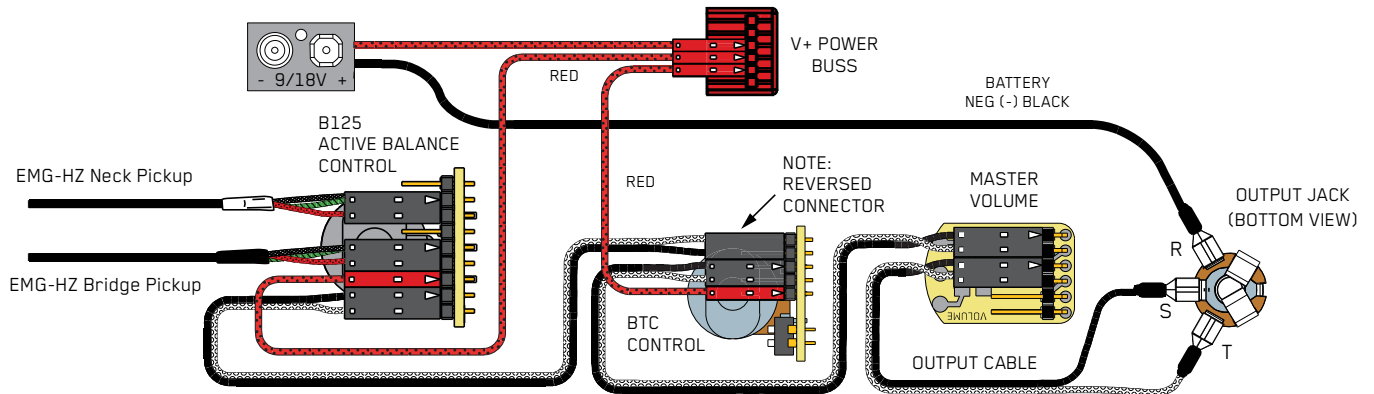
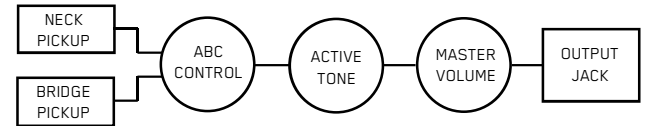
This installation can be used for instruments with 3 control positions. Since the output impedance of the ABC is low, 25 kΩ Master Volume and Tone controls are required. See Diagram #7 for alternate installations using active EMG accessories/EQ controls (VLPF, EXB, SPC, RPC, etc.) in place of the included 25 kΩ Tone control.



**Diagram #6**

**2 Pickups / B125 Active Balance Control / Master Volume / Active Accessory**

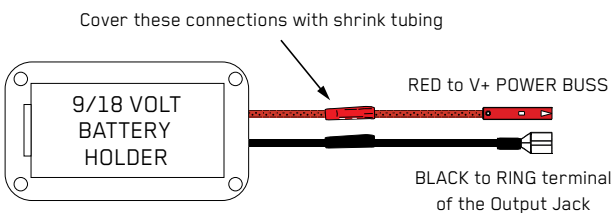
This diagram is for installations that include the EMG ABC Active Blend Control and BTC Control (2-band EQ). The BTC Control shares the same 5-pin connection scheme as many other EMG accessories such as the BTS, EXB, SPC, and more. Each accessory is sold separately. Visit [emgpickups.com](http://emgpickups.com) for more information.



**Diagram #7**

**If the instrument has a Battery Holder:**

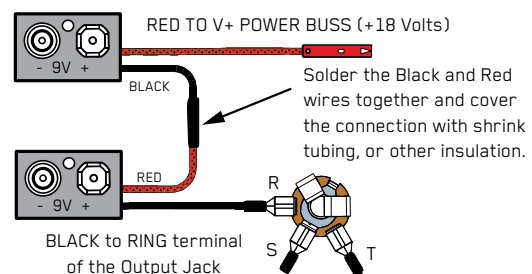
If your instrument has a 9 or 18 Volt battery holder you can still use the EMG Connectors to supply power to the B125 ABC. Simply cut and strip the wires from the battery clip provided. Twist the wires together and use shrink tubing to cover the connections. Soldering the wires is preferred.



**Diagram #8**

**+18 Volt Wiring Option (Soldered):**

If you want to operate your instrument at +18 Volts for greater headroom and playing dynamics, use two battery clips wired in series as shown below. +18 Volts is recommended for any type of Active Accessory or EQ in your instrument which boosts the pickup signal. (BT, BQ, VMC, EXB, SPC, RPC, etc.)



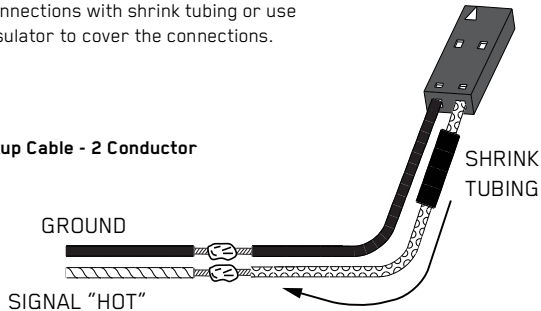
**Splicing Passive Pickup Cables:**

If you have pickups without solderless connection terminals, you can splice them onto one of our solderless connect cables. A single connection cable is provided which can be cut and spliced on either end, if needed for this purpose. If you need additional EMG solderless connection cables, please visit [emgpickups.com](http://emgpickups.com) and navigate to our Parts / Wiring Components product page.

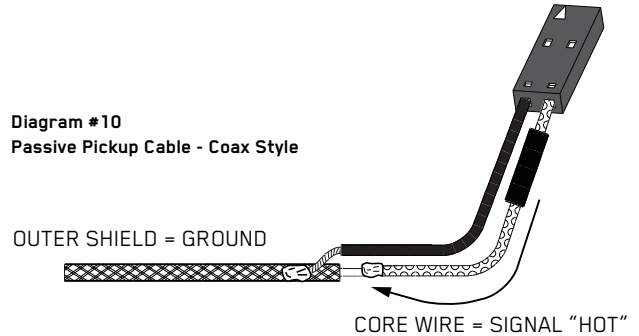
Solder the ground/shield wire of your pickup cable to the black wire of the EMG connect cable, and solder the signal or "hot" wire to the white wire.

Cover the connections with shrink tubing or use a suitable insulator to cover the connections.

**Diagram #9**  
Passive Pickup Cable - 2 Conductor

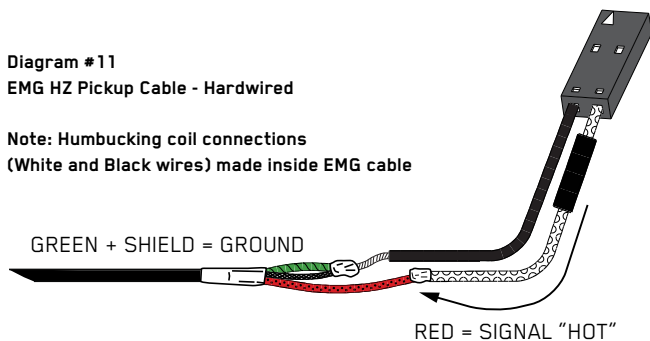


**Diagram #10**  
Passive Pickup Cable - Coax Style

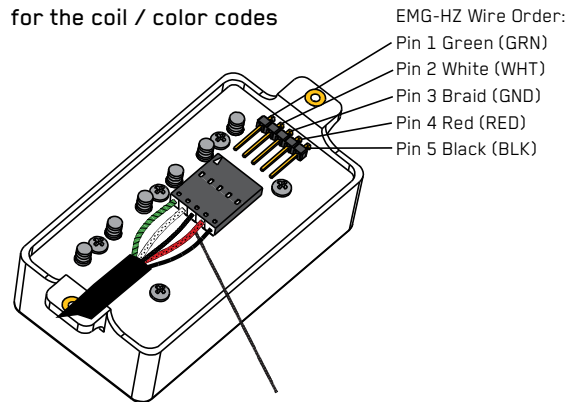


**Diagram #11**  
EMG HZ Pickup Cable - Hardwired

**Note:** Humbucking coil connections (White and Black wires) made inside EMG cable



See any EMG-HZ Data Sheet for the coil / color codes



The RED Wire of the EMG-HZ Pickup is a coil wire. It is the signal output (hot) wire. **DO NOT** hook this wire to 9V+ or you will be sorry. Really sorry! If you are installing new EMG-HZ Passive Pickups refer to those data sheets.

**COMPLIANCE**



EMG Pickups and Accessories comply with the following regional certifications.

Region	Certification
Europe	CE, WEEE, REACH, RoHS
North America	RoHS
USA (California)	California Prop 65
UK	UKCA

**ELECTRONIC PRODUCTS AND BATTERY DISPOSAL**



All electrical and electronic products and batteries must be collected separately by a local collection system. Do not dispose of these items with your normal household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please recycle the product(s) responsibly.