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## INSTALLATION INFORMATION

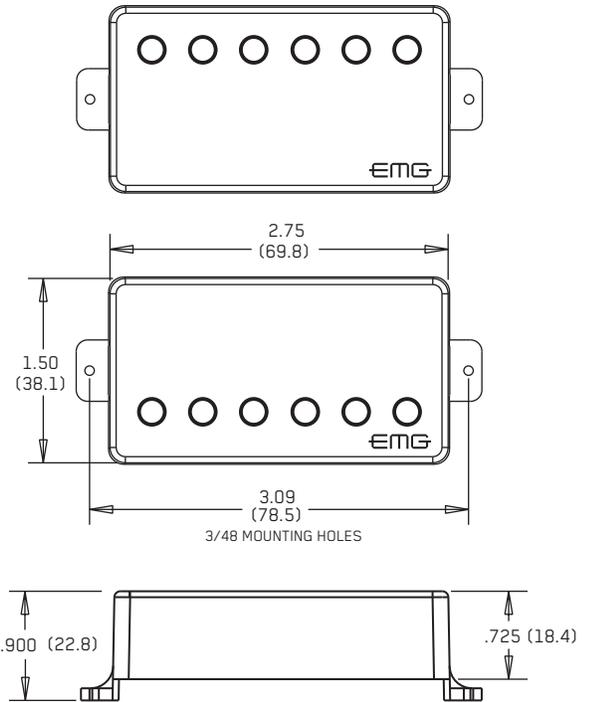
### EMG MODELS: JAMES HETFIELD - JH SET

#### SPECIFICATIONS:

	MODEL:	
	NECK	BRIDGE
Logo Color*	White	White
Magnet Type**	C	C/S
Resonant Frequency (KHz)	2.11	1.61
Output Voltage (String)	3.00	3.00
Output Voltage (Strum)	4.50	4.50
Output Noise (60 Hz)	-100	-100
Output Impedance (Kohm)	10	10
Current @9V (Microamps) (Set)	160	
Battery Life (Hours)(Set)	1500	
Maximum Supply (Volts DC) (Set)	27	

\*Note: Logo Colors are not distinguished on the JH Set

\*\*Note: Magnet Type: C (Ceramic) C/S (Ceramic/Steel)

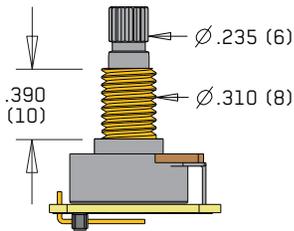


#### INSTALLATION NOTES:

All EMG Pickups are compatible with each other. EMG accessories, the VLPF, EXG, SPC or RPC Controls can be added to any EMG Pickup System without requiring an extra battery. DO NOT reconnect the bridge ground wire, EMG Pickups do not require string grounding. Use the 25K Ohm controls that are included for best results. If your output jack is a long panel style you will need a stereo jack, use a SwitchCraft 152B, soldering will be required (see the bottom of page 2). Adjust the pickup level to the strings, and at a distance that works for you, experiment. Alternate wiring diagrams are available at: [emgpickups.com](http://emgpickups.com).

#### INCLUDED WITH EACH PICKUP:

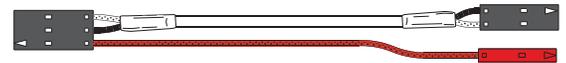
2 VOLUME CONTROLS (25K)  
2 TONE CONTROLS (25K)



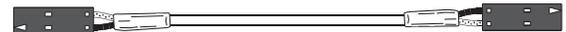
ADJUSTMENT  
SCREWS & SPRINGS (2 pr)



2 PICKUP CABLES 15" (38cm)



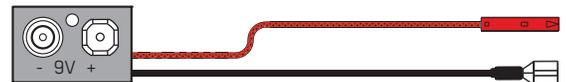
3 CONNECT CABLES 5.5" (14cm)



OUTPUT CABLE 6" (15cm)



BATTERY CABLE 7" (18cm)



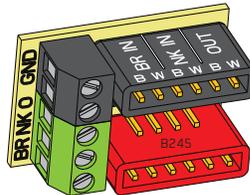
BATTERY  
BUSS



STEREO OUTPUT  
JACK



2 PICKUP IN/ OUT  
BATTERY BUSS



#### 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 Models: EMG-JH Set

### General Notes:

- Every attempt has been made to make this a solderless installation. There are some instances where this is not possible;
- 1) If your instrument uses the long panel output jack and you had passive pickups you will need a new stereo output jack, the Switchcraft 152B is recommended. Soldering to the new jack will be required, see diagram #6.
  - 2) Some instruments may already have a battery holder installed and in that case see the diagram at the bottom of page 3.
  - 3) Instruments with two pickups may need soldering to the selection switch in some installations.

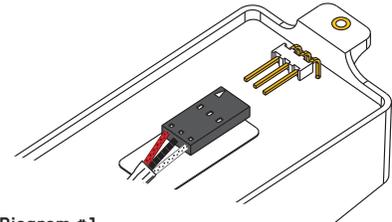
### Installation (Two Pickup Guitars with Selection switch):

Guitars with two pickups and a selection switch will use the EMG B245 Pickup Buss as shown in diagram #2.

The Pickup Buss is a convenient way to wire your guitar without soldering.

There is a separate sheet attached to these instructions that describes the B245 Pickup Buss in detail.

In all installations it's best to find a place to mount the Pickup Buss in the control cavity before starting. Then, after the cables are routed use the velcro to mount it securely.



**Diagram #1**

Insert the plug onto the 3 pin header of the pickup as shown above.

Note the orientation arrow.

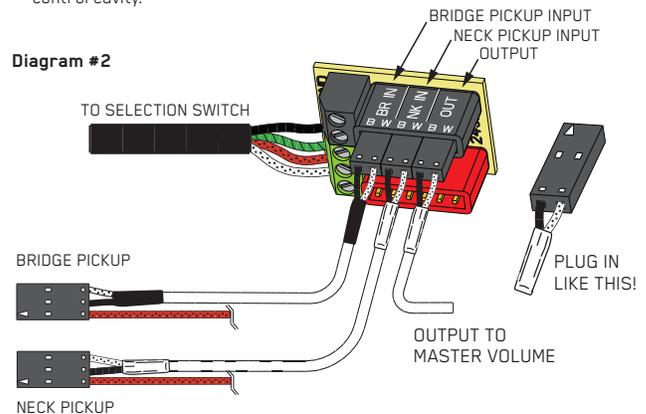
### 2 Pickups / Toggle Select Switch / Master Volume and Tone

Refer to Diagrams #1, #2, and #3

- 1) Install the Pickups and route the Pickup cables to the control cavity. If the cables are too long, wind up the excess and keep it under the pickup.
- 2) Mount the Volume and Tone controls into the body. Plug both Pickup cables onto the B245 Pickup Buss (BLACK Shroud) as shown, Refer to diagram #2  
Bridge Pickup to position 1  
Neck Pickup to position 2.
- 3) Plug a coax cable from the Pickup Buss (position 3) to the Master Volume control as shown in diagram #3.
- 4) Plug a coax cable from the Master Volume to the Master Tone as shown.
- 5) Strip the insulation from the switch wires and Insert them into the GREEN Terminal Block and tighten the screws with a small screwdriver.  
The Bridge pickup goes to the BR Terminal  
The Neck pickup goes to the NK Terminal  
The Output of the switch goes to the O Terminal  
If there is a ground wire coming from the switch, insert it into one of the black terminals on the terminal block.
- 6) Plug the output cable onto the Master Tone control and connect the output wires to the output jack by pushing the connectors on as shown.  
WHITE wire onto the TIP (T) contact,  
BLACK wire onto the SLEEVE (S) contact  
BLACK Battery Negative wire onto the RING (R) contact.

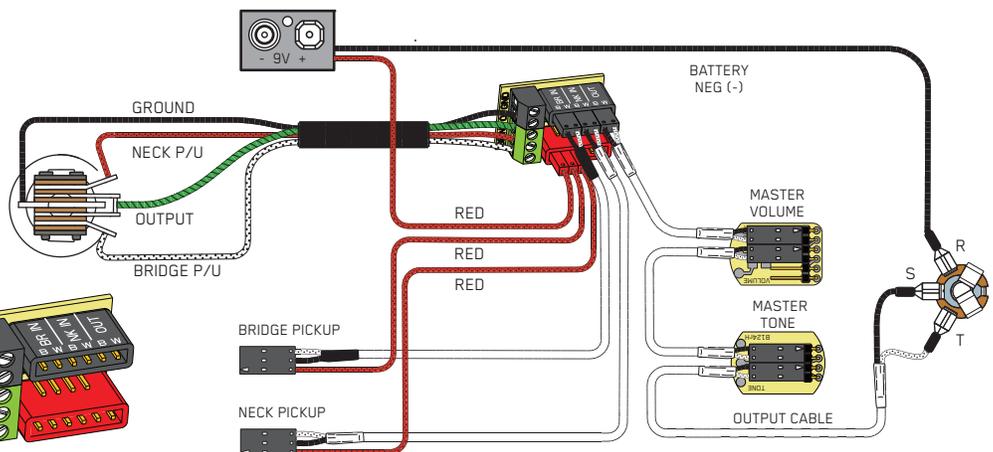
- 7) Plug the RED Wires of the pickups onto the V+ Buss (RED Shroud) along with the RED of the battery clip.
- 8) Put the battery in the insulating foam piece provided and place it securely in the control cavity. We suggest that you plug in the instrument and test it before closing the control cavity.

**Diagram #2**



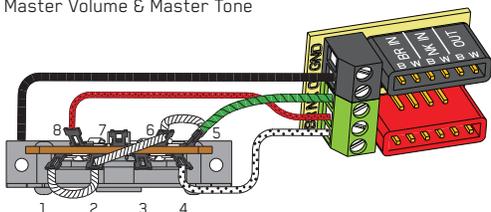
**Diagram #3**

2 Pickups  
Toggle Style Select Switch  
Master Volume & Master Tone



**Diagram #3a**

2 Pickups  
Lever Style Select Switch  
Master Volume & Master Tone



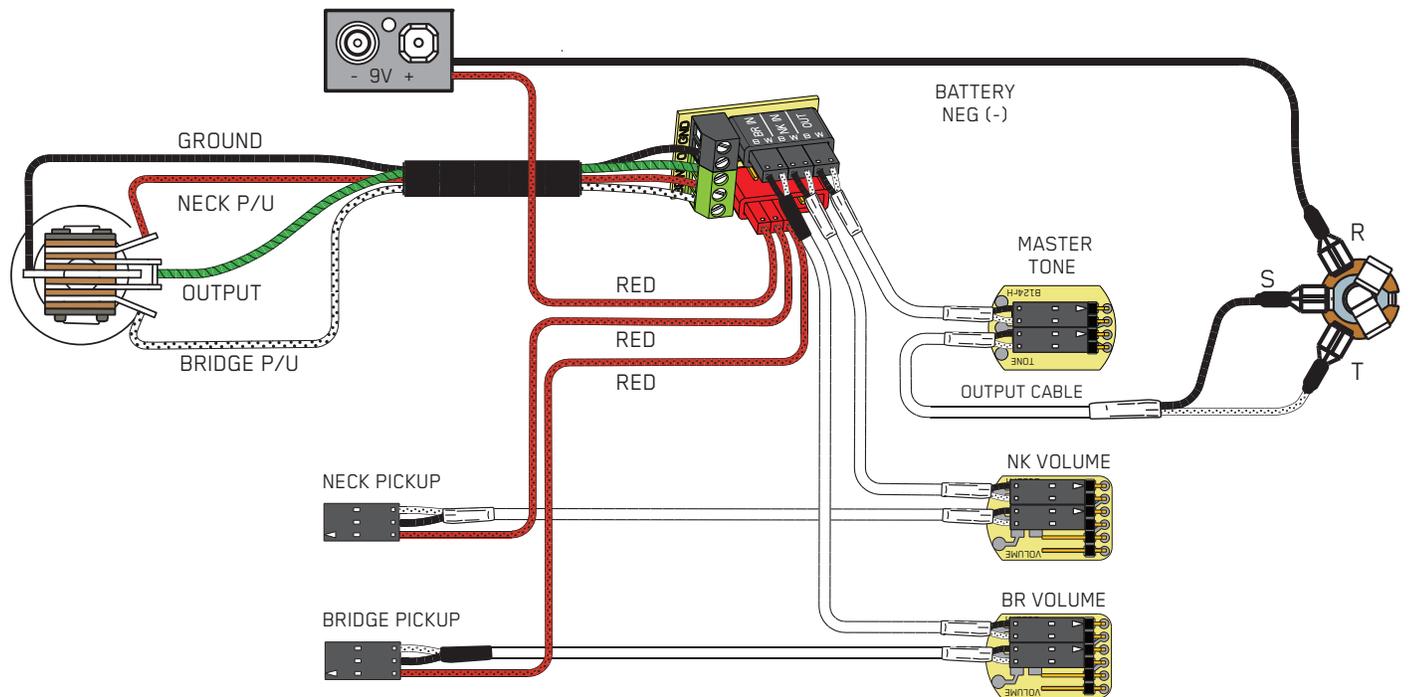
## 2 Pickups / Toggle Select Switch / 2 Volumes and Master Tone

Refer to Diagram #4

- 1) Install the Pickups and route the Pickup cables to the control cavity.  
If the cables are too long, wind up the excess and keep it under the pickup.
- 2) Mount the Volume and Tone controls into the body.  
Plug both pickup cables onto the Volume controls as shown.  
Plug a coax cable from the Bridge Volume control to the Pickup Buss (Position 1)  
Plug a coax cable from the Neck Volume control to the Pickup Buss (Position 2)
- 3) Plug a coax cable from the Pickup Buss (position 3) to the Master Tone control as shown.
- 4) Strip the insulation from the switch wires and Insert them into the GREEN Terminal Block and tighten the screws with a small screwdriver.  
The Bridge pickup goes to the BR Terminal  
The Neck Pickup goes to the NK Terminal  
The Output of the switch goes to the O Terminal  
If there is a ground wire coming from the switch, insert it into one of the black terminals on the terminal block.
- 5) Plug the output cable onto the Tone control and connect the wires to the output jack by pushing the connectors on as shown.  
WHITE wire onto the TIP (T) contact,  
BLACK wire onto the SLEEVE (S) contact  
BLACK Battery Negative wire onto the RING (R) contact.
- 6) Plug the RED Wires of the pickups onto the V+ Supply Buss (RED Shroud) along with the RED of the battery clip. Extra pins are for EMG Accessories.
- 7) Put the battery in the insulating foam provided and place it securely in the control cavity.  
We suggest that you plug in the instrument and test it before closing the control cavity.

### Diagram #4

2 Pickups  
Toggle Style Switch  
Volume each Pickup (Volumes are independent)  
Master Tone

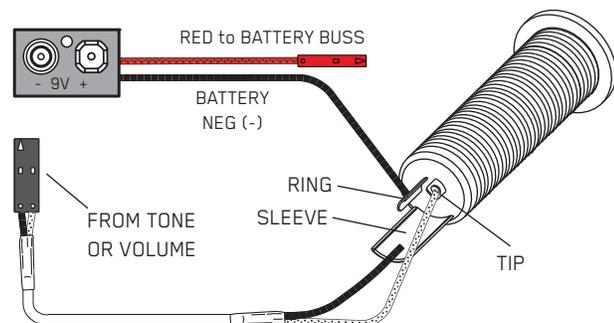


### Soldering to the 152B Panel Jack:

If your instrument has a long Panel Jack like the one below you will have to solder the output cable as shown.

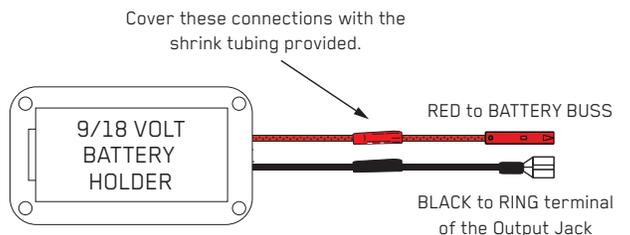
Ground (Black) to the sleeve  
Signal (White) to the Tip  
Battery Negative (Black) to the Ring

Diagram #6



### 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 pickups. Simply cut and strip the wires from the battery clip provided. Twist the wires together and use the shrink tubing included to cover the connections. Soldering the wires is the preferred.



**2 Pickups / Toggle Select Switch / 2 Volumes and 2 Tones)**

Refer to Diagram #5

- 1) Install the Pickups and route the cables to the control cavity.  
If the cables are too long, wind up the excess and keep it under the pickup.
- 2) Mount the Volume and Tone controls into the body  
Plug both Neck and Bridge pickup cables onto the Volume Controls as shown.  
Plug a coax cable from the Bridge (BR) Volume control to the Pickup Buss (Position 1). See Diagram #7  
Plug a coax cable from the Neck (NK) Volume control to the Pickup Buss (Position 2). See Diagram #7
- 3) Plug a coax cable from the Bridge (BR) Volume control to the Bridge (BR) Tone control as shown.
- 4) Plug a coax cable from the Neck (NK) Volume control to the Neck (NK) Tone control as shown.
- 5) Strip the insulation from the switch wires and Insert them into the GREEN Terminal Block and tighten the screws with a small screwdriver.  
The Bridge pickup goes to the BR Terminal  
The Neck Pickup goes to the NK Terminal  
The Output of the switch goes to the O Terminal  
If there is a ground wire coming from the switch, insert it into one of the black terminals on the terminal block.

- 6) Plug the output cable onto the Pickup Buss (Position 3) and push the connectors onto the jack as shown.  
WHITE wire onto the TIP (T) contact,  
BLACK wire onto the SLEEVE (S) contact  
BLACK Battery Negative wire onto the RING (R) contact.
- 7) Plug the RED Wires of the pickups onto the V+ Supply Buss (RED Shroud) along with the RED of the battery clip. Extra pins are for EMG Accessories.
- 8) Put the battery in the foam insulator provided and place it securely in the control cavity.  
We suggest that you plug in the instrument and test it before closing the control cavity.

**Diagram #5**

- 2 Pickups
- 2 Volume (either volume will act as a master)
- 2 Tone
- Toggle Style Switch

