



B136rE 0230-0118rE

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SANTA ROSA, CA
95402 USA

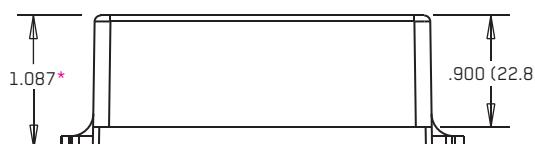
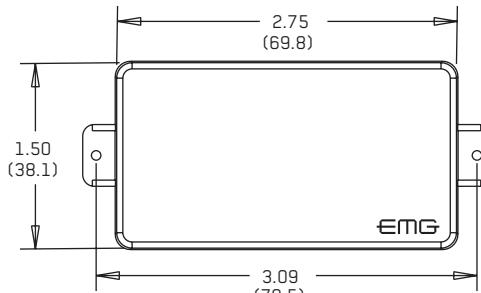
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INSTALLATION INFORMATION EMG MODELS: 81-TW

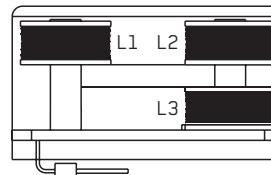
SPECIFICATIONS:

	MODEL:	Single-Coil	Dual-Coil
Logo Color	81-TW	Copper	
Magnet Type*	C/S		
Resonant Frequency (KHz)		3.47	1.77
Output Voltage (String)		2.00	3.00
Output Voltage (Strum)		3.00	4.50
Output Noise (60 Hz)		-107	-107
Output Impedance (Kohm)		10	10
Current @9V (Microamps)	160		
Battery Life (Hours)	1500		
Maximum Supply (Volts DC)	27		

* Magnet Type CS (Ceramic and Steel)



*The 81-TW is taller than the typical EMG Pickup,
Be sure to it will fit in your guitar before you start the installation.

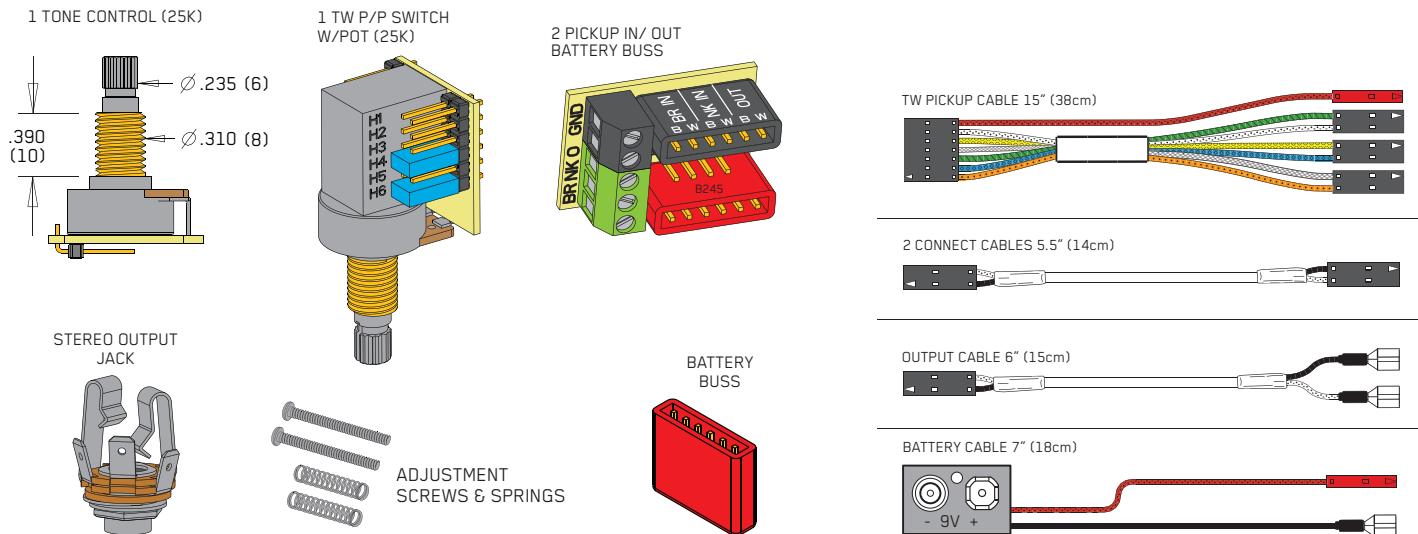


In Dual-coil mode, coils L1 and L2 are active.
In Single-coil mode, coils L2 and L3 are active.

INSTALLATION NOTES:

The EMG-81-TW has a variety of ways it can be wired into a guitar. The diagrams included are limited to the most popular because of space. The addition of the plug-on PC Board on the Push-Pull Pot adds further flexibility as you will see in the diagrams. We suggest you look fully at the installation diagrams included in this sheet along with the B157 Pickup Buss data sheet included in this package before beginning your installation. The Push-Pull pot allows you 2 options as a volume control as well as 2 other options using the pot as a tone control. If you don't see a diagram that fits your instrument directly, or you want to do something completely different, contact our technical department and we'll create a diagram you can follow for your installation. Certain limitations apply...

INCLUDED WITH EACH PICKUP:



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.

Diagram #5

PP POT USED AS THE PICKUP
TONE CONTROL

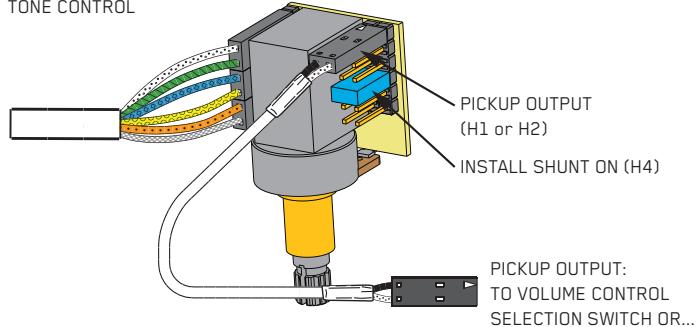


Diagram #6

PUSH-PULL POT USED AS A MASTER
TONE CONTROL

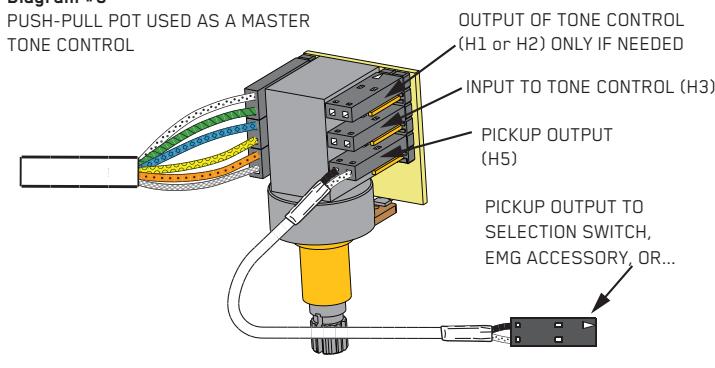


Diagram #8

One TW Pickup
Master Volume

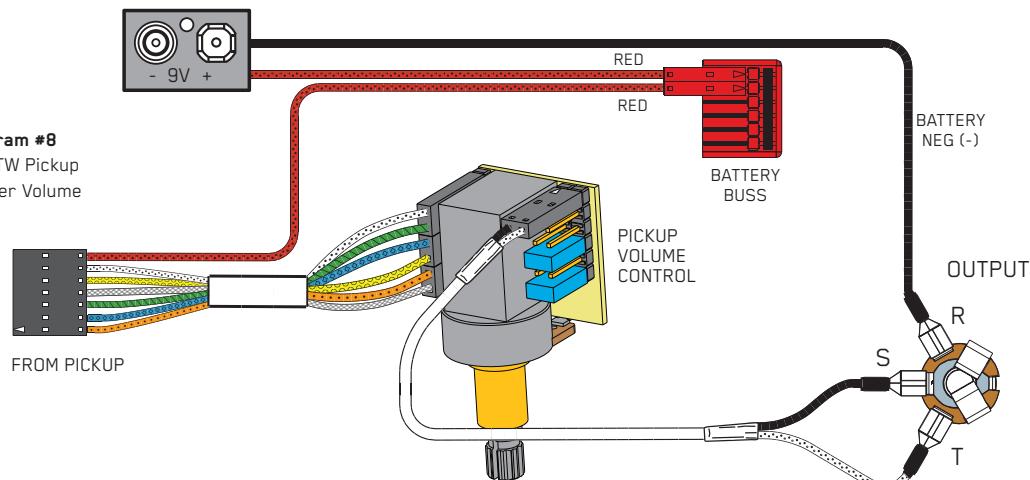
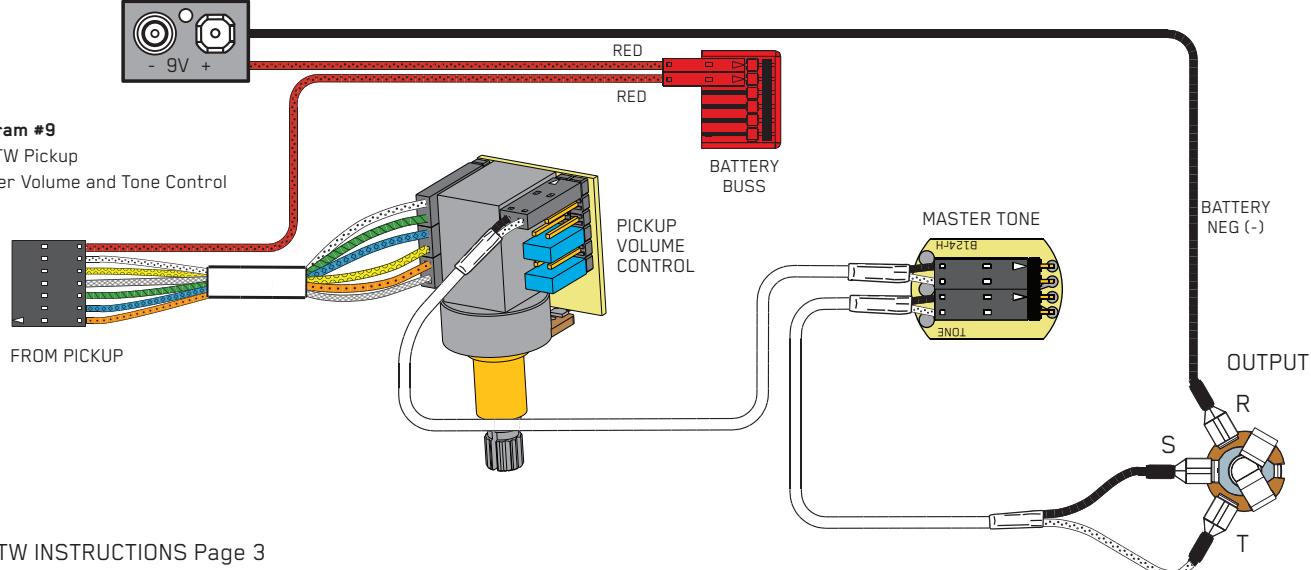


Diagram #9

One TW Pickup
Master Volume and Tone Control



Using the Pot Section as:

2) The Pickup Tone control or as a Master Tone control for the instrument.

Refer to Diagrams #5 and #6

The pot section (25KA) can be used either as a Tone control for the pickup or it can be used as a Master Tone control for the guitar. Diagrams #5 and #6 show how to connect either option.

Use the dual-line header, push the cables on and install the shunts as needed onto headers H1 thru H6.

Use Diagram #5 if you have a single 81-TW installed in your instrument, or have two or more pickups in your instrument and want to use the pot as the Tone control for the 81-TW Pickup only.

Installing the shunt on position H4 connects a tone capacitor on the PC Board to the wiper of the 25K Pot and creates a passive Tone control. The output of pickup can be either position H1 or H2.

Diagram #6 uses the 25K Tone control independently of the pickup output. By taking the output of the pickup from Position H5, the control is now available to use as a Tone Control independent of the pickup output.

Position H3 is the input to the Tone Control, with H1 or H2 being the output of the control, if necessary.

Position H5, the output of the pickup, would typically go to a selection switch or output jack.

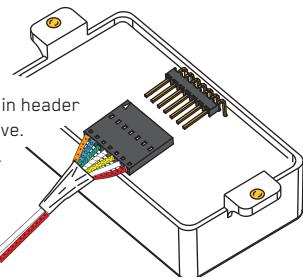
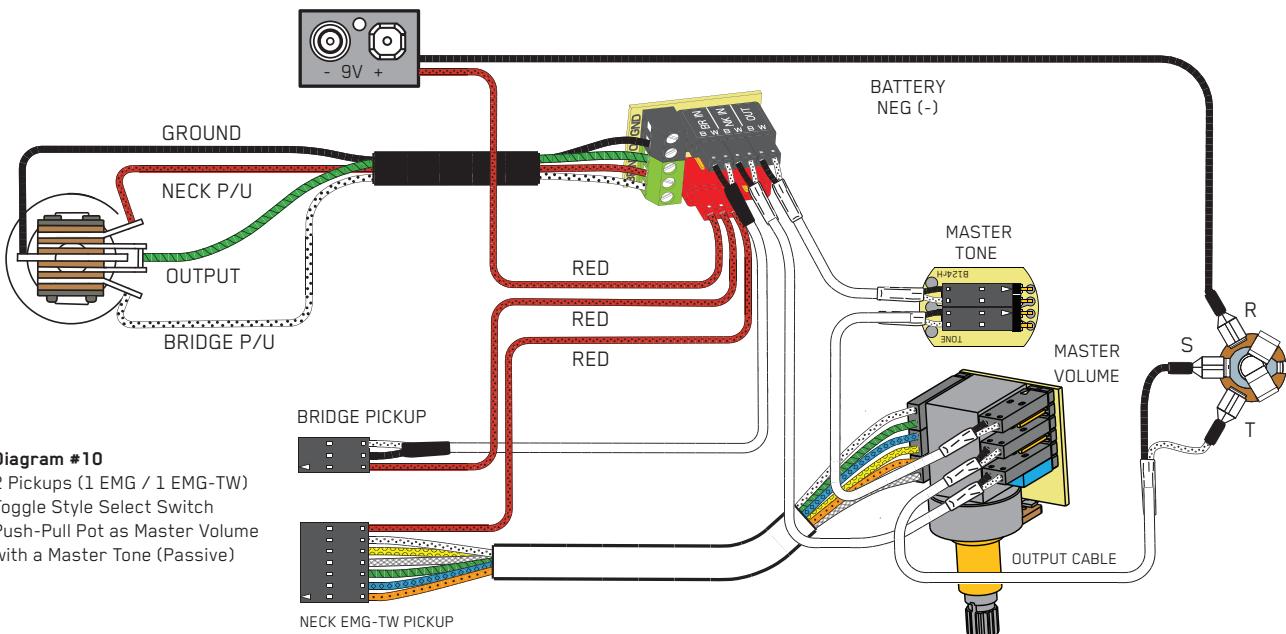


Diagram #7

Insert the plug onto the 7 pin header
of the pickup as shown above.
Note the orientation arrow.



Refer to Diagram #10 Above:

- 1) Install the Pickups and route the cables to the control cavity keeping any excess cable under the pickup.
- 2) Choose an up/down option from Diagram #1 or #2 and plug the 81-TW Pickup cable onto the push-pull pot.
- 3) Route a coax cable from the push/pull pot (H4) to the Pickup buss, Position 1. Plug the pickup cable of the other EMG into Position 2 of the pickup buss.
- 4) Plug a coax cable from Position 3 of the Pickup Buss to the Tone control. Plug a coax cable from the Tone control to the Push-Pull Pot (H1)
- 5) Plug the output cable from the Push-Pull Pot (H2) to the output jack and push the connectors onto the T, S, and R terminals of the jack as shown.
- 6) Plug the RED Wires of the pickups onto the V+ Supply Buss (RED Shroud) with the RED wire of the battery clip.
- 7) Strip the insulation from the switch wires and Insert them into the GREEN and BLACK Terminal Blocks and tighten the screws with a small screwdriver. Refer to the B157 Pickup buss instructions enclosed.
- 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.

Refer to Diagram #11 Below:

- 1) Install the 81-TW Pickups and route the cables to the control cavity keeping any excess cable under the pickup.
- 2) Choose an up/down option from Diagram #1 or #2 and plug the 81-TW Pickup cables onto the push-pull switch sections.
- 3) Route a coax cable from each of the Push-Pull Pots (H1) to the Tone controls.
- 4) Plug a coax cable from the Bridge Tone to the Pickup Buss (Position 1) Plug a coax cable from the Neck Tone to the Pickup Buss (Position 2)
- 5) Plug the output cable from the Pickup Buss (Position 3) to the output jack and push the connectors onto the T, S, and R terminals of the jack as shown.
- 6) Plug the RED Wires of the pickups onto the V+ Supply Buss (RED Shroud) with the RED wire of the battery clip.
- 7) Strip the insulation from the switch wires and Insert them into the GREEN and BLACK Terminal Blocks and tighten the screws with a small screwdriver. Refer to the B157 Pickup buss instructions enclosed.
- 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.

