



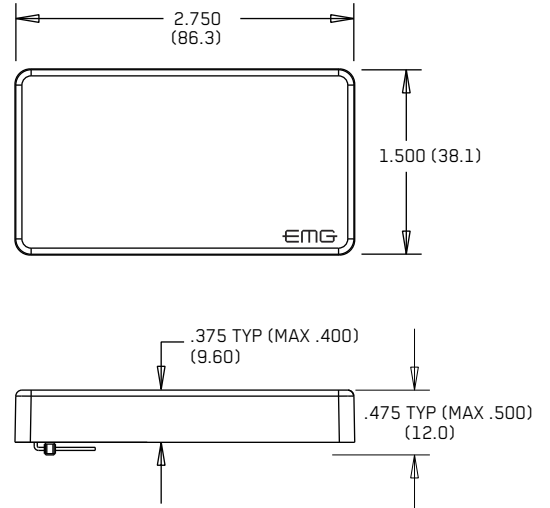
0230-0003-B

PO BOX 4394
SANTA ROSA, CA
95402 USA

P (707) 525-9941
F (707) 575-7046
EMGPICKUPS.COM

INSTALLATION INFORMATION

EMG MODELS: **EMG-91 ARCHTOP**



SPECIFICATIONS:

Logo Color
Magnet Type
Resonant Frequency (KHz)
Output Voltage (String)
Output Voltage (Strum)
Output Noise (60 Hz)
Output Impedance (kOhm)
Current @9V (Microamps)
Battery Life (Hours)
Maximum Supply (Volts DC)

MODEL:

EMG-91
Gold
Alnico 5
4.05
1.00
3.00
-101
2
380
800
27

ABOUT THE EMG-91 ARCHTOP PICKUP:

The 91 is our original archtop pickup. There are several benefits to using an active pickup for an archtop. Firstly, the pickup can be designed for great tone because output level is not an issue. In addition, the EMG design ensures the pickup is virtually noiseless and doesn't need string grounding. It is nearly impossible to ground the strings of an archtop guitar, so this makes the 91 an excellent choice for amplifying your instrument.

String Compensation (B and E)

The 91 has built-in compensation for the plain B and E strings so they balance well with the other wound strings in an acoustic string set. If your instrument is strung with something other than an acoustic guitar string set, there may be issues with string output balance. Of course, be sure to mount the pickup as shown with the EMG Logo in the bottom right hand corner.

Mounting:

Because all archtop guitars are different, mounting the pickup is usually unique in most cases. The pickup can be mounted on its bottom surface to a pickguard, or can be mounted with the EMG-91 bracket kit. See Page 2 for diagrams and dimensions of the 91 bracket.

Two styles of output jack are provided: a long endpin jack and smaller panel jack. Either can be used, depending on your instrument. Installation instructions for the endpin jack are provided on Page 3.

Power:

The 91 requires at least 9 Volts of battery power. This can be accomplished by installing a battery holder in the instrument, or by using an external power supply like our EMG ES-918. When using external power, a stereo cable must be used between the instrument and the power supply box. Wiring diagrams are provided for the two different methods of powering your active pickup.

Volume and Tone Controls:

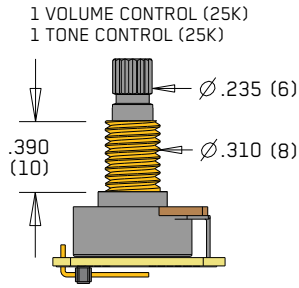
A set of standalone Volume and Tone controls are included with the 91 Pickup, but are not required for installation. The 91 Pickup can be wired directly to either of the two output jacks provided. Different wiring configurations are shown in the included instructions.

Alternatively, you can install the B-46 EMG Archtop Volume and Tone Control, a low-profile thumbwheel Volume and Tone control set. Please contact an EMG sales representative to learn more about this compact control set for archtop pickups.

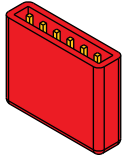
WARRANTY

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.

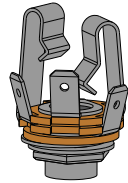
INCLUDED WITH EACH PICKUP:



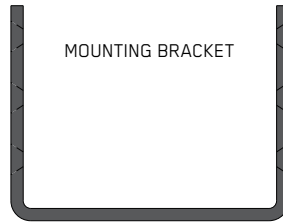
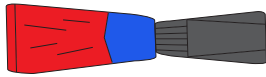
BATTERY BUSS



STEREO PANEL JACK



MOUNTING BRACKET ADHESIVE (CYANOACRYLATE)



BRACKET SPACER / ALIGNMENT JIG



MOUNTING BRACKET SCREWS (6)



SHIELDED PICKUP CABLE 24" (61cm)



RIBBON PICKUP CABLE 11" (28cm)



1 CONNECT CABLE 5.5" (14cm)



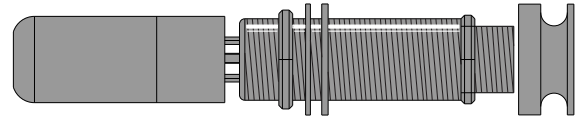
OUTPUT CABLE 22" (56cm)



POWER CABLE 6.5" (16cm)



STEREO ENDPIN JACK

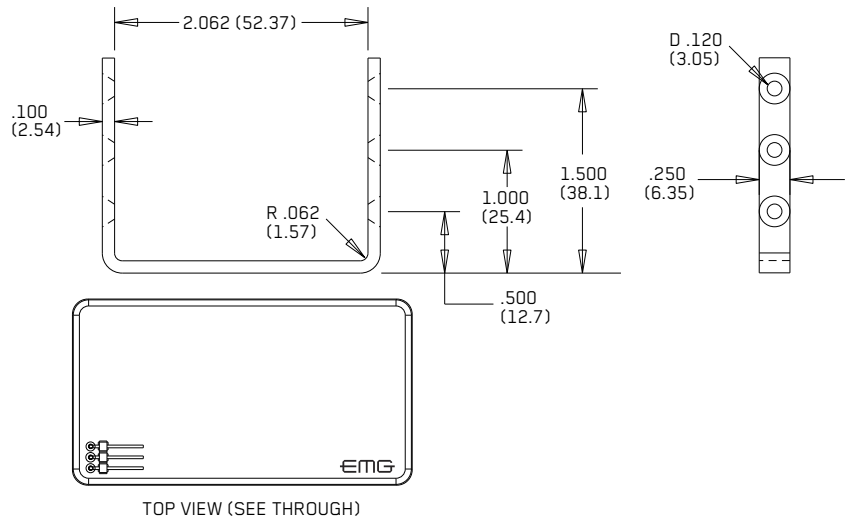


Mounting Instructions:

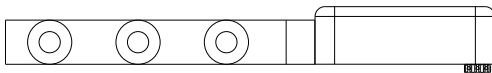
Because all archtop guitars are different, mounting the pickup is usually unique in most cases. The pickup can be mounted on its bottom surface to a pickguard, or mounted with the included Mounting Bracket Kit.

Bracket Assembly and Mounting:

- 1) Clean the upper side of the pickup and bottom side of the bracket with rubbing alcohol.
- 2) Place the pickup face down on a flat, clean surface. Position the spacer on the side of the pickup opposite the logo, centered with grooved side facing up.
- 3) Place the bracket flat on the spacer, aligned with the grooves, against the pickup. Tack it in place with a small amount of adhesive. Let dry for at least 60 seconds or until set.
- 4) Turn the pickup over (face up) and place it on a flat surface. The spacer is no longer needed.
- 5) Fill the gap between the top of the bracket and side of the pickup with adhesive. Do not push the bracket flat against the side of the pickup. With the bracket and pickup laying on your working surface, soak up any excess adhesive with the edge of a paper towel. Let dry for at least 15 minutes.



SIDE VIEW WITH BRACKET



TOP VIEW (SEE THROUGH)

Pickup Cable Connection

Two pickup cables are included with the EMG-91 Pickup a long shielded cable and a shorter ribbon style cable. Either cable can be used for installation, as they both connect to the pickup with an identical 3 pin housing. The longer shielded cable may be preferable for installations with direct output, while the ribbon cable is generally used for installations with onboard controls (Volume and Tone).

Regardless of the wiring harness, the pickup cable must be connected to the pickup with its indented arrow facing out. See Diagram #1.

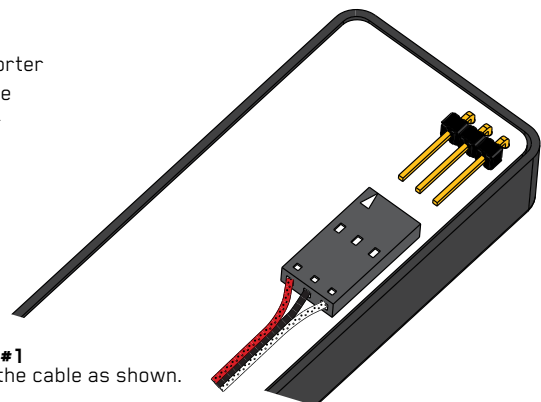


Diagram #1
Connect the cable as shown.

Endpin Jack Installation

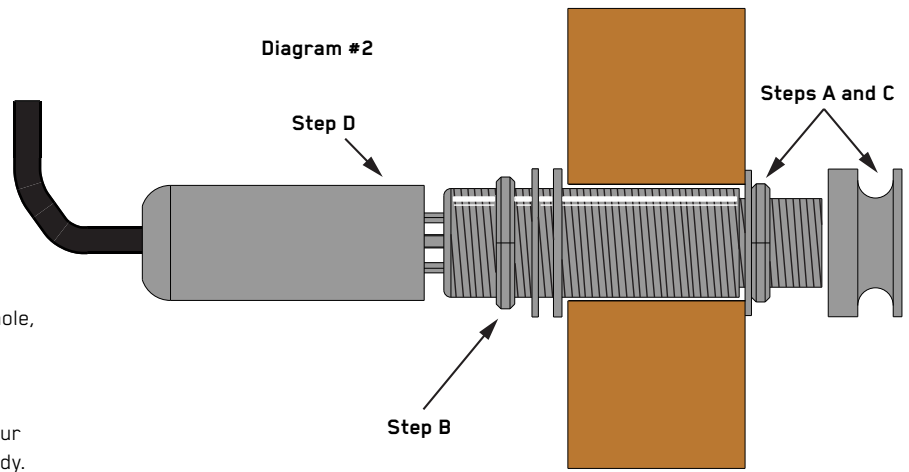
A 31/64 inch (12mm) hole is required for the endpin output jack. The hole should be no larger than 1/2 inch in diameter. It is recommended that this hole be drilled by someone with the proper tools and skill to maintain the finish of your guitar. Read the following instructions before you proceed.

If your instrument does not have a strap button you can drill the 31/64" hole using a brad point drill. No pilot hole is required. If your instrument already has a strap button, remove it. Fill the strap button hole with a piece of wood doweling to provide a solid/flat surface for the brad point drill. Then drill the 31/64" hole, the dowel will be drilled out during the process. Remove the sawdust from the instrument and proceed

Depending on your instrument, it may be necessary to connect your wiring harness to the endpin jack prior before mounting to the body.

Refer to Diagram #2

- A) Remove the strap button, nut and finish washer from the jack.
- B) Insert the jack through the soundhole, then through the end block of the guitar. At this point you will need to adjust the rear hex nut to allow for the thickness of the endblock. The rear hexnut should be adjusted allowing you to tighten the outer nut to get the jack nice and snug.
- C) Re-attach the washer and nut and tighten into place then screw the strap peg on.
- D) Thread the Shield cover onto the jack and tighten.



Direct Output without Volume and Tone Controls

You can use the provided 24" shielded cable to send the pickup output directly to either output jack. The pickup can be powered by either an internal battery holder or an external power supply like our ES-918.

Diagram #3a

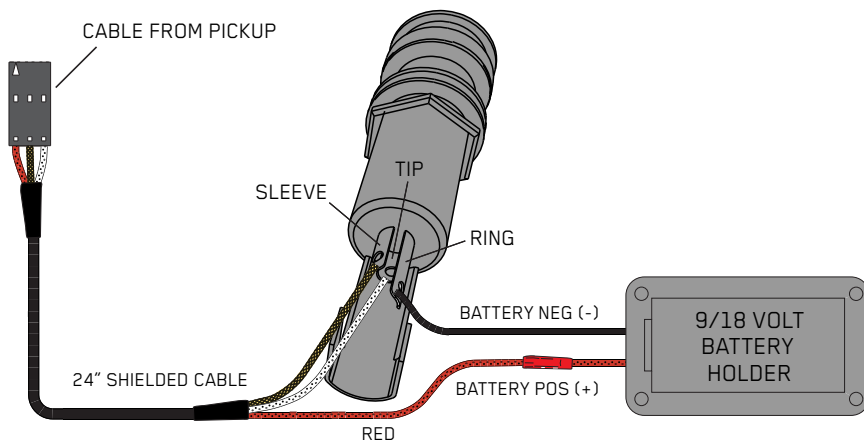
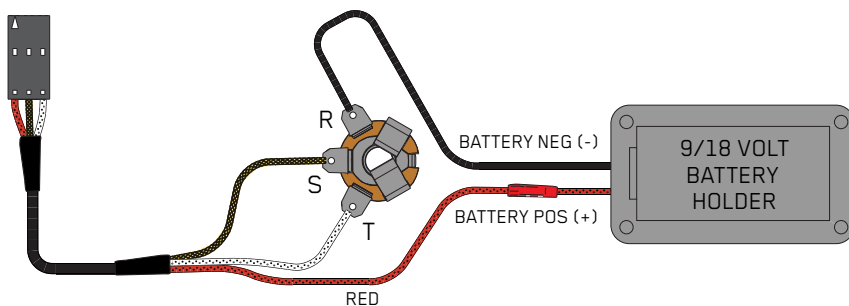


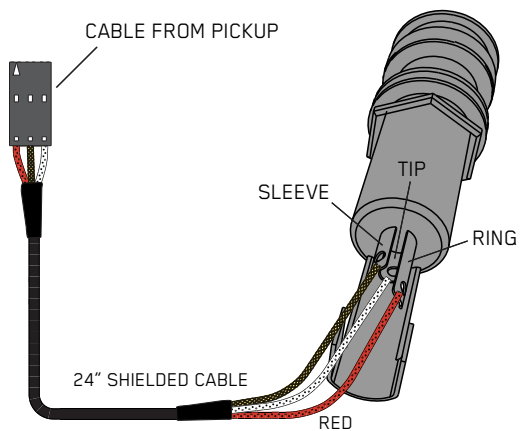
Diagram #3b



Direct Output with EMG ES-918 External Power Supply

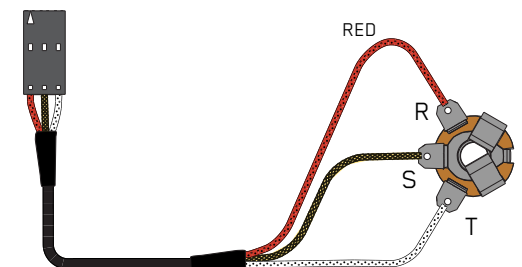
When using the ES-918 Power Supply, you need a Stereo cable to send +9 or +18 Volts up the Ring contact to the pickup.

Diagram #4a



REQUIRES STEREO (TRS) CABLE BETWEEN INSTRUMENT AND ES-918 POWER SUPPLY

Diagram #4b



Installation with Volume and Tone Controls

The provided ribbon style cable can be used to make a solderless connection to the included Volume and Tone controls.

Either of the standalone controls may be omitted - simply wire the remaining control (Volume or Tone) between the pickup and the output jack.

There may be some situations where additional lengths of wire must be spliced into the EMG solderless connect cables.

If installing with the endpin jack, you will need to cut the slip-on connectors from the provided output cable and solder directly to the jack lugs.

Master Volume and Tone, with Internal Battery Holder

1) Refer to Diagram #5a. Plug the Pickup cable onto the Volume control as shown. Plug a connect cable from the Volume control to the Tone control.

Plug the output cable onto the Tone control as shown.

2) Connect the wires of the output cable to the stereo panel jack by pushing the connectors on as shown.

WHITE wire to the TIP (T) contact,

BLACK wire to the SLEEVE (S) contact

If using the endpin jack, you will need to snip these slip-on connectors from the output cable before soldering to the jack lugs. See Diagram #5b

3) Insert the Pickup cable RED wire into the battery buss. Use the provided power cable (single red wire) to join the Battery Buss to your internal battery holder (+). Solder the battery holder negative (-) wire to the Ring lug of your output jack.

Diagram #5a

One Pickup
One Volume
One Tone

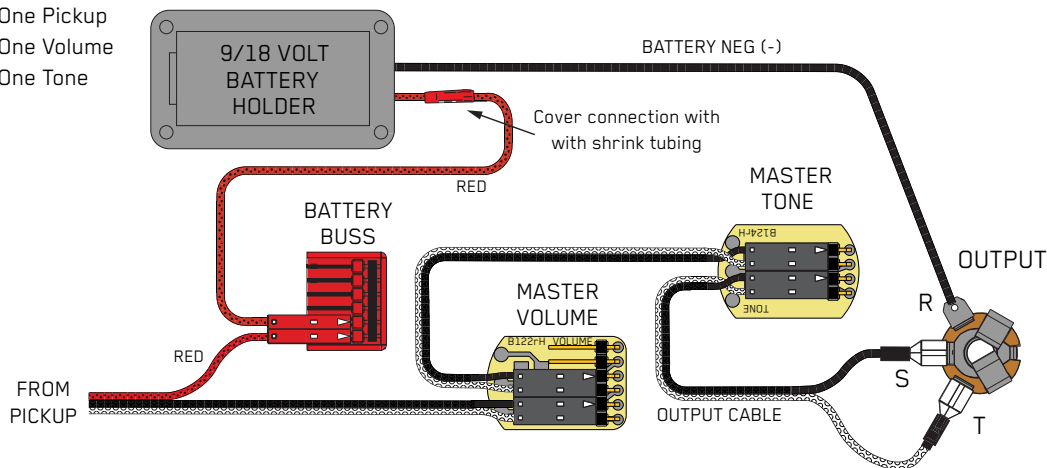
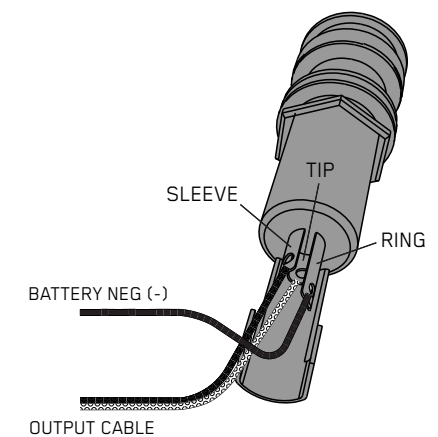


Diagram #5b

Output Cable and Battery Negative soldered to Endpin Jack



Master Volume and Tone, with EMG ES-918 External Power Supply

1) Refer to Diagram #6a. Connect the Pickup to the Volume and Tone controls as described above, and make the same connections from output cable to the TIP and SLEEVE contacts of your output jack.

2) Insert the Pickup cable RED wire into the battery buss. Use the provided power cable (single red wire) to join the Battery Buss to the RING contact of your output jack. **You will need a Stereo cable to send +9 or +18 Volts up the Ring contact to the pickup.**

See Diagram #6b for guidance on wiring to the endpin jack when using an external power supply.

Diagram #6a

One Pickup
One Volume
One Tone
External Power Supply

**REQUIRES STEREO (TRS) CABLE
BETWEEN INSTRUMENT AND
ES-918 POWER SUPPLY**

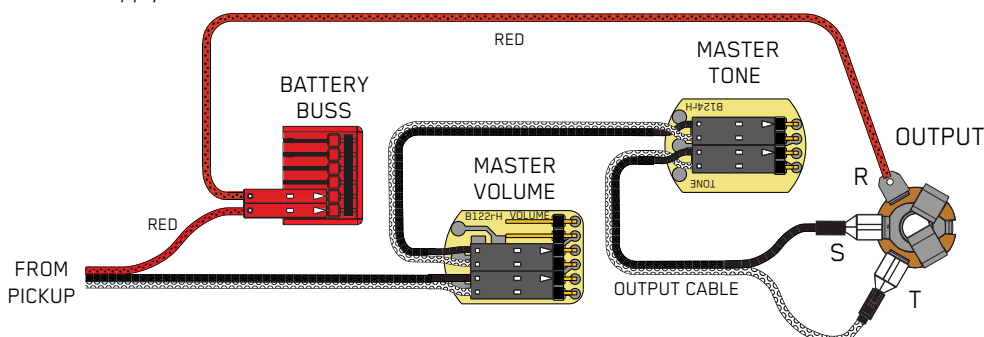


Diagram #6b

Output Cable and Battery Buss soldered to Endpin Jack, for use with External Power Supply

