



Specifications:

Resonant Frequency (KHz)	14.2
Output Noise (dBV)	-96
Output Impedance (Kohm)	.2
RMS Output Voltage	.05
Current @ 9volts (Microamps)	220
Maximum Supply Voltage	.27V

INSTALLATION INFORMATION

MODEL: EMG-ACS

Installation Notes:

This is a very simple installation. Connectors are used throughout so soldering is not required. Once the installation is complete the EMG-ACS can be removed and reinstalled easily. Velcro is used to attach the pickup cable out of sight when the pickup is removed.

Bronze strings:

When using Bronze wrapped strings with the EMG-ACS, you'll find that the high E and B strings will be louder than the others. You can compensate for this by removing the pole piece for the B string altogether and lowering the pole piece for the E string an 1/8" to 1/4" below the face of the pickup.

INSTALLATION INSTRUCTIONS

- 1) Remove the strings.
- 2) Preparing for Ultrajak installation.

A 1/2" hole in the end block is required for the installation of the Ultrajak. It is highly recommended that this hole be drilled by a person with the appropriate tools and skill to maintain the finish of your instrument. Read the following instructions fully before you proceed.

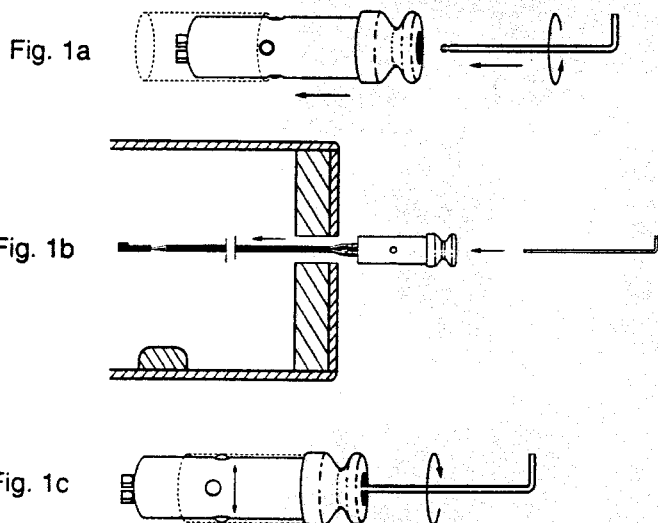
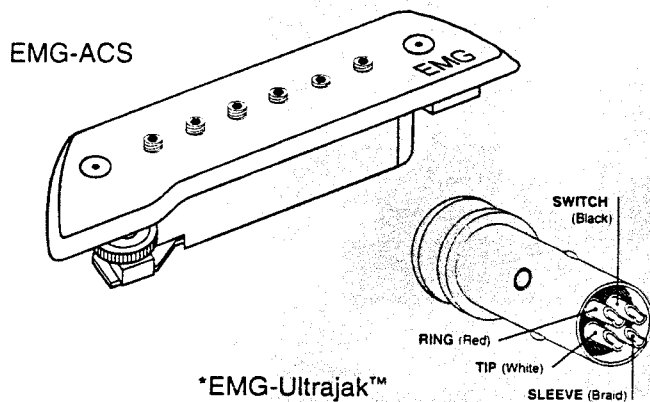
If your instrument does not have a strap button, you can simply drill the 31/64" hole using the brad point drill. No pilot hole is required. If your instrument already has a strap button it must be removed. Fill the strap button hole with a piece of wood doweling to provide a solid/flat surface for the brad point drill. Then drill the 31/64" hole, the dowel will be drilled out. Use the 1/2" ream to finish the hole. Remove all the sawdust from the inside of the instrument.

- 3) Install the Ultrajak.

Insert the 1/16" Allen wrench into the Ultrajak and rotate the screw counter-clockwise until the ball bearings are flush with the outside of the housing (Fig. 1a). Thread the cable through the 1/2" hole (Fig. 1b) and push the jack into the hole, flush to the guitar body. Again, using the 1/16" Allen wrench, rotate the screw clockwise and this will tighten the Ultrajak firmly into the guitar (Fig. 1c).

Tools required:

Electric drill, 31/64" brad point drill bit,
1/2" ream
1/16", 3/32" Allen wrenches (included).



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 at any time a pickup fails to work, return it postage prepaid with proof of purchase. If upon examination the pickup is determined to be defective, a replacement will be made at no charge. 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.

*Ultrajak is a registered trademark of EMG, Inc. covered under patent #5,809,136 © Copyright 1998 by EMG, Inc.

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4) Installing the battery bag.

Before installing the battery bag be sure the neck block is clean and dust free. Remove the adhesive backing from the dual lock fastener on the battery bag and affix it to the neck block as shown in Fig. 1.

5) Refer to Fig. 2. Plug the connector from the Ultrajak into the 4 pin header on the left side of the battery/connector board.

There is a key-way on the header to insure proper polarity.

6) Wire clips are provided to fasten the Ultrajak cable inside the guitar as shown in Fig. 5. It's easiest to put the clips onto the cable, find the best spot for attachment, remove the adhesive backing and attach the clips to the inside top of the guitar.

7) Refer to Fig 2. Plug the ACS output cable into the 3 pin header on the right side of the battery/connector board. There is a key-way on the header to insure proper polarity.

8) Place a 9 Volt Battery onto the battery/connector board and insert it into the battery bag, close the bag, then affix the battery bag to the mating dual lock on the neck block.

9) Install the Velcro coin.

Refer to Fig. 3. Velcro is provided to hold the ACS Pickup cable out of sight when the pickup is removed. Find a convenient spot inside the guitar body, remove any dust, remove the backing and attach the Velcro coin. A matching piece of Velcro is provided on the back of the ACS Pickup cable.

10) Plug the ACS pickup cable into the 3 pin header on the back-side of the ACS Pickup. Velcro side up as shown in Fig. 3.

11) Installing the pickup into the soundhole.

Loosen the mounting screws using the 1/16" Allen wrench, do not remove the bracket. Place the pickup into the sound hole towards the neck and tighten the screws (Fig. 4).

12) Re-stringing the instrument.

13) To align the pickup under the strings, loosen the screws, align the pole pieces of the ACS Pickup with the strings, and retighten the screws.

Plug the guitar into your amplifier. Turn the volume control up on the ACS and you're ready to play. To achieve the optimum string balance, adjust the pole pieces on the pickup with the 3/32" Allen wrench provided. Refer to the note on Bronze wrapped strings on page one.

It's not necessary to remove or loosen the strings to remove or reinstall the EMG-ACS Pickup.

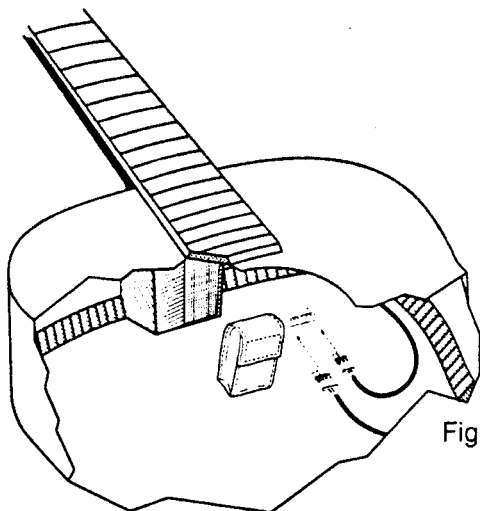


Fig. 1

Fig. 2

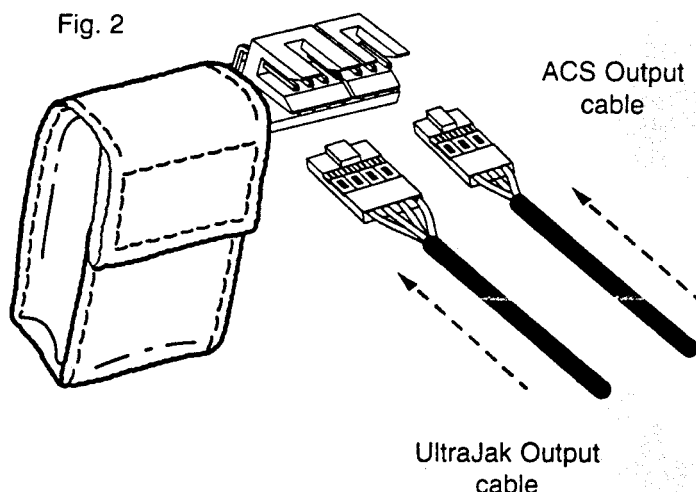


Fig. 3

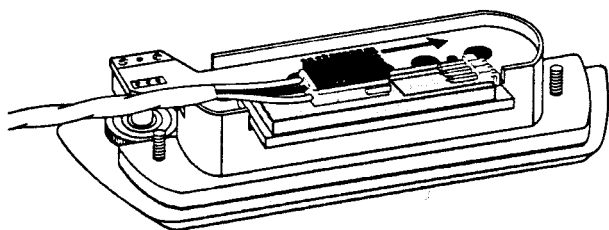


Fig. 4

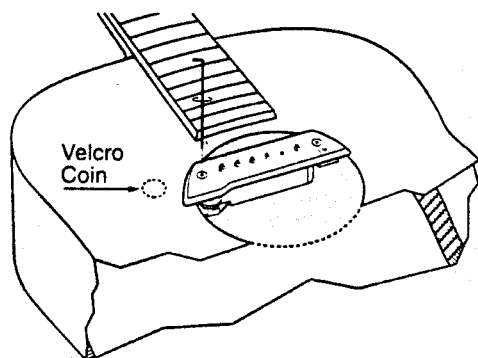


Fig. 5

