

HFN-S2 Artist - Pickup For Selmer / Maccaferri Instruments - Installation Instructions

To Install the HFN-S2 Artist you will need the following tools:

Electric drill, 1/2" spade or forstner bit, assorted drill bits to 1/2", x-acto, side cutters, needle nose pliers, small flat head jewellers driver.

Important: Please read these instructions before installing the pickup system

Installing the Endpin Jack Preamp

Note: As can be seen in fig 1, the lower portion of the tailpiece has been modified on this Saga and the lower mounting screw of the tailpiece has been relocated upward. This was done so that the endpin jack could be mounted as close to center as possible. Whether you choose to modify the tailpiece or not is your choice. The only variation will be how centered the strap button appears.

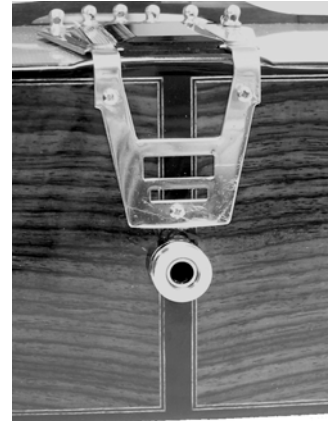


fig 1

1) Slack off all six strings and remove them or tape them out of the way. Remove any end pin at the butt of the guitar. If you are going to modify the tailpiece mounting, now is the time to trim the bottom of the tailpiece away, and redrill through the brass for the new hole.

2) If the instrument had a strap button attached with a small screw, use the spade or forstner bit to drill a pilot hole through the end block. 3) If the instrument had a strap button press fitted or glued into a tapered hole in the end block, you will need to gradually and carefully increase the diameter of the hole to 1/2" using either a tapered reamer or a succession of different drill bits concluding with a 1/2" size.

4) Remove the outer strap button, and the small nut and washer from the endpin jack.

5a) **On Large Sound Hole Instruments** Reach inside the sound hole and poke the endpin jack preamp through the hole in the end block

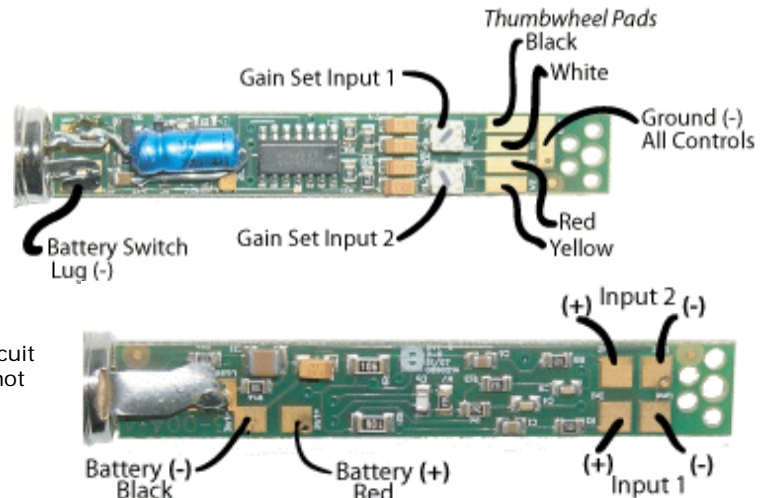
5b) **On Small Sound Hole Instruments** Uncoil and straighten the optional jack tool. Insert the brass end of the tool through the end of the guitar and feed it inside until you can grab the brass end of it from the sound hole. Insert the brass end into the preamp and pull the tool back through the body thus locating the jack in the hole.

6) The jack should protrude approximately 5/16" outside the guitar when tightened. Reinstall the flat washer and small nut. Insert a small allen wrench or other small round (like a drill bit) through the 2 holes in the end of the preamp to keep it from rotating; tighten the small nut.

Setting the preamp gain

1) The Artist II endpin jack preamp is a two channel preamp. On the preamp circuit board there is a trim pot for for setting the gain for each channel. As supplied with our HFN pickup, only one channel of the preamp is being used and that channel comes from the factory with the trim pot gain set at approximately 20 percent of maximum gain. The second channel may be utilized for a magnetic pickup or mic. If nothing is attached to this second channel, the trim pot must be turned fully off on the circuit board to avoid any noise. A small jewellers screw driver may be use to rotate the trim pot. Rotating it fully counterclockwise will turn the input gain to fully off.

2) It may be necessary to adjust the input gain on the preamp circuit board. If the input gain is set too low the amplifier or mixer may not process the signal properly. If the input gain is set too high then distortion may occur.



Installing the Pickup

Each arch on the bottom of the pickup base should center on one of the main transverse braces that frame the bridge box area. The pickup should be placed reasonably close to the center line of the instrument. (Fig 2)

Mounting Materials

Each pickup comes supplied with a large quantity of light grey mounting putty.

1) Into each of the two arches on the bottom of the pickup that will mate up with the transverse bracing, tear off and insert a piece of putty large enough to completely fill each arch.

On Large sound hole instruments

1) On large sound hole and 'D' hole instruments the opening for the sound hole is large enough that you should be able to comfortably install the pickup by simply putting your hand in through the sound hole.

2) When reaching inside to place the pickup, feel where the braces are and mate up the putty filled arches with the 2 braces. Press the pickup firmly into place..

On Small sound hole (petite bouche) instruments

1) Using the optional pickup installation tool. Note that the pivoting end of the tool has a small stop pin at its end. (Fig 3)

2) Note that the side walls of the channel that will hold the pickup are slightly flexible and that they may be carefully bent inward to increase the tool's ability to hold the pickup in place.

3) Slide the pickup into place on the tool, as shown until the pickup rests against the locating pin. (fig 4)

4) Into each of the two small arches on the bottom of the pickup, tear off and insert a piece of putty large enough to completely fill each arch.

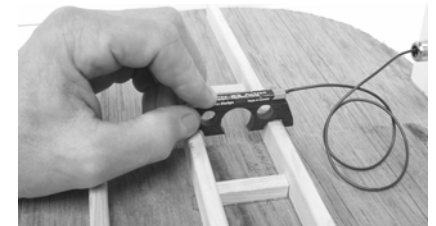


fig 2



fig 3

5) Note a marker band on the shaft of the tool. When this band is lined up with the edge of the sound hole, the pickup should be right over the braces (fig 5).

6) Being careful not to touch the bracing with the pickup or putty, insert the tool end holding the pickup through the sound hole just about a half inch farther than the shaft mark indicator line.

7) Raise the pickup into position and simultaneously pull the tool back slightly towards the shaft mark. You will feel the arches of the pickup start to grab the bracing. Place your thumb behind the handle (towards the fingerboard side of things) and use your thumb as a bit of a lever. This will make it easier to press the pickup into place. Continue to raise and pull back on the tool handle until the pickup is fully seated.

8) When the pickup is fully seated, press down and forward on the tool to allow the tool and the pickup to separate.

9) After installation, the majority of the mounting putty will appear to have squeezed out the side. This is normal. A word of caution here: do not try to use too little putty as the pickup may not mount or work properly.

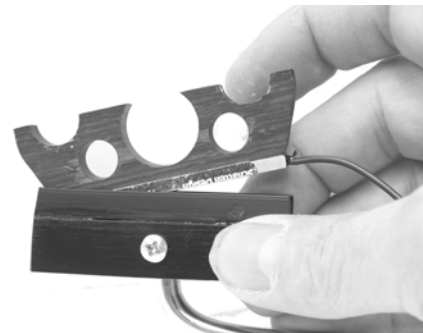


Fig 4

Installing Thumbwheel Controls

1) Thumbwheel controls are normally installed so that the black wheels extend just slightly beyond the edge of the soundhole on the bass side.

2) Feel inside your guitar, under the lip of the soundhole and find an area that is clean and flat and large enough for the control unit to sit flat. The control unit must sit flat in order for the VHB foam adhesive to hold properly. If a large enough flat area does not exist, a small thin wood plate may have to be glued in to provide the necessary flat room between braces.

3) Remove the backing from the VHB tape and while supporting the outside area of the soundhole, firmly press the control unit into place.



fig 5

Installing the Battery Bag

1) In order to make sure that the battery wires will reach to where you want to position it, install a battery in the bag and attach the battery connector.

2) Chose a spot on the inside of your guitar where you would like to place the battery. Make certain that you can reach the battery through the soundhole and that both the battery and the wires can remain out of sight. Make sure that the spot you chose is relatively flat and that it is clean and dry.

3) Once you have confirmed the location, peel the backing from the velcro pad and press it into place.

Finishing Touches

1) Using the supplied wire holders, clamp the battery leads and pickup lead wire so they are secure. Reinstall the strings.

Preamp Specs:

2 Channels, gain settable from 0 to 24 db. on each channel via the small white trim pot on each channel.

Multiple power capability - The preamp may be run from a 9 volt battery onboard an instrument, or with phantom power (up to 48 volts d.c.) from a mixer or amplifier, or from an outboard battery pack (part RP-1). A special cable (part CAB-1) is required to run from either phantom power or battery pack.

CAB-1 Cable Specs:

Optional Ten foot, 3 conductor cable, XLR male to TRS 1/4" stereo male.

XLR Pin		1/4" Stereo
Pin 1	= Ground =	Sleeve
Pin 2	= Signal =	Tip
Pin 3	= Power =	Ring

RP-1 Battery Box Specs:

Optional remote 18 volt battery box, XLR female jack to 1/4" mono female jack, holds 2 x 9 volt d.c. batteries. Requires CAB-1 cable from instrument to RP-1. A standard guitar cord is used to connect from the 1/4" mono jack to a guitar amp