

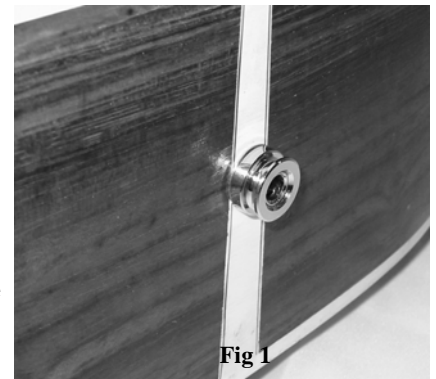
**HFN-C (passive) Installation Instructions - Pickup For Classical Guitars**

To Install the **HFN-C** you will need the following tools:

Drill, 3/16" 3/8" and 31/64" drill bits, fluted burr, x-acto knife or side cutters, needle nose pliers.

**Installing the Endpin Jack**

- 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.
- 2) Drill a pilot hole through the end block approximately 3/16" in diameter in the area you wish to place the end pin jack.
- 3) Using a fluted burr, chamfer the edges of the hole so that you will not damage the finish of the instrument when you use the larger sizes of bits required.
- 4) Drill through the guitar end block using a 3/8" bit and re-chamfer the hole. Repeat drilling with a 31/64" bit to complete the drilling operations.
- 5) Remove the outer strap button, and the small nut and washer from the endpin jack.
- 6) Reach inside the sound hole and poke the endpin jack through the drilled hole in the end block. The jack should protrude approximately 5/16" outside the guitar. Reinstall the flat washer and small nut.
- 7) Insert a small allen wrench or other small round (like a drill bit) through the 2 holes in the end of the endpin jack to keep the jack assembly from rotating; tighten the small nut.



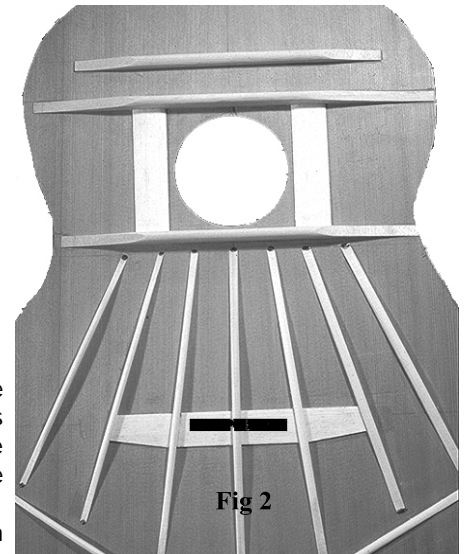
**Mounting Materials**

Each pickup comes supplied with a quantity of 2 different thicknesses of double sided foam tape for mounting the pickup to the underside of the bridge plate or soundboard. Make sure that area that you are putting the pickup in is clean and dust free. If in doubt, wipe the underside area with a clean cloth or paper towel moistened with a little rubbing alcohol to clean off any grime.

- 1) The thicker mounting tape should be used in almost all installations. It provides the best balance and relative output for most instruments.
- 2) If your instrument is relatively stiff or not high in acoustic output, then the thinner tape may be used to boost output and response. The thinner tape will also bring in more top end to the pickup.

**Installing the Pickup**

- 1) The pickup is meant to go as directly under the bridge and saddle as possible (and in line with it). The center arch of the pickup should span the center brace of the instrument. It is suggested that you take a measurement from the edge of the sound hole to the center of the saddle and cut a thin piece of scrap wood to the same length. When you have your hand inside the instrument you can use this 'stick' to help locate where the pickup should go.
- 2) Remove the backing from one side of the foam tape. With the foam tape sticky side up on a flat surface, place the feet of the pickup over the tape and press down to make the tape adhere to the feet.
- 3) Cut away the tape that now covers the center arch of the pickup, leaving the rest of the tape in place including the tape that spans the arches of the outer feet of the pickup.
- 4) Remove the remaining backing from the foam tape.



**For a Classical Guitar**

- 1) The black rectangle shown in **Fig 2** indicates the pickup placement. For instruments that do not have a bridge plate you may ascertain the correct position for the pickup by tapping on the saddle with your finger and feeling inside next to the center brace in the bridge area to find the spot with the most vibration.
- 2) Press the pickup firmly into place.

**Finishing Touches**

- 1) If necessary use a wire holder to clamp the pickup lead wire and prevent it from rattling around inside.
- 2) Reinstall the strings.

**Note:** This pickup is designed for use with a preamp.

**Warranty**

We warrant to the original purchaser that our pickups are free from defects in materials and workmanship for a period of 2 (two) years. Should a product fail to perform properly within the specified warranty period you may contact your dealer or Schatten Design for instructions. No product will be accepted for warranty return by Schatten Design without a Return Authorization number.