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Installation Instructions - NR-2 Neo Pickup For National Style Biscuit Bridge Instruments

Important Notes:

1) It is critical that the fit of the saddle into the biscuit of the instrument be rock solid. If there is any movement or play in the saddle, the pickup may not work properly. Should you need to replace the existing saddle to achieve a proper fit into the biscuit or need to shim and/or glue the saddle in, then it should be done prior to installing this pickup system. The saddle fit to the biscuit must be tight otherwise there can be quite noticeable variations in string to string volume. Address this as required.

2) The primary location for mounting the sensor is on the surface of the biscuit approximately 1/8" behind the saddle (see fig 1). This mounting position works well on most instruments. If the biscuit itself is overly thick (approaching 3/4") there might not be enough vibration transmitted through it to the sensor and it may be necessary to install the sensor on the saddle itself (as shown in fig.2).

3) Remove the tailpiece, strings and cover plate from the instrument.

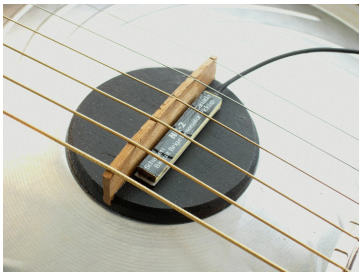

fig 1

Sensor Mounting

1) The sensor will mount with the supplied 3M VHB tape. Take a piece of the narrow VHB tape, cut it to the length of the sensor, remove the backing paper on one side of the tape and apply it to the non-labeled side of the sensor.

2) Thread the sensor element through the center opening of the cover plate.

3) The element is to be centered so it spans approximately the distance from the 5th and 1st strings. Remove the backing paper on the VHB and firmly press the sensor into place on the biscuit or the saddle depending upon the installation.

4) Reinstall the cover plate.

fig 2

Installing the Neo-Jack

1) The Neo-Jack is designed to fit directly onto the tailpiece. Dry fit the jack assembly onto the tailpiece; it should be a snug fit. Note that the hole in the tailpiece is visible through the slot in the Neo-Jack.

2) Remove the backing paper from the 3M VHB on the Neo-Jack, position the jack assembly properly over the tailpiece and press the Neo-Jack firmly into place on the tailpiece (fig 3).

3) Position the tailpiece as it would be mounted on the instrument and push any excess lead wire back into the instrument. Reinstall the tailpiece and the strings.

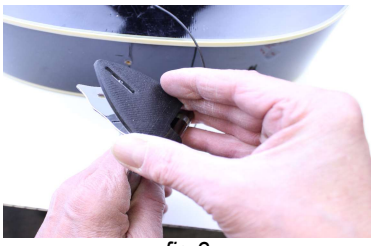

fig 3

A Word About Amplification:

NR-2 passive pickups have been designed to operate properly and sound good without the use of a preamp when plugged into any normal electric guitar amp. As a non-preamped piezo pickup the NR-2 has an impedance of approximately 2 mega ohms which most electric guitar amps will handle. As with any passive pickup, the sound can be further enhanced and EQ'd with an outboard preamp.

PA systems: If you require the added ability to be able to plug directly into a P.A. or mixer then a preamp designed for pickups will be necessary. The preamps that are built into PA systems are microphone preamps and generally will not work properly with a passive pickup.

Acoustic Amps: If you are plugging into an acoustic amp a preamp may be required depending upon the design of that acoustic amp. Acoustic amps may or may not require the use of a preamp with a passive pickup and that will depend upon whether or not there is a special built in preamp section within that amp that specifically allows for the choice of plugging in either a passive (non-preamped) or active (preamped) pickup. This choice is quite often a second channel or a pushbutton on the amp's control panel. Many acoustic amps show a selection that may indicate the choice of 'high impedance' and 'low impedance'. Low impedance in these instances usually indicates that in this range the amp will handle an impedance of 1000 ohms or less - which will allow active pickups with preamps to be used.

High impedance in these instances may indicate an allowable impedance in the 2 or 3 mega ohm range - which will allow passive pickups to be used. Or it may indicate a maximum input impedance allowed of 20,000 ohms or less - which will handle magnetic electric guitar pickups but not passive pickups. You should carefully read the technical specifications of your acoustic amp in order to see what it will do.

Rev 12-7-2019