

Installation Instruction For Sonic Series:

Sonic Doubleplay, Sonic Nanoflex, Sonic NanoMAG, Sonic Basic

Introduction:

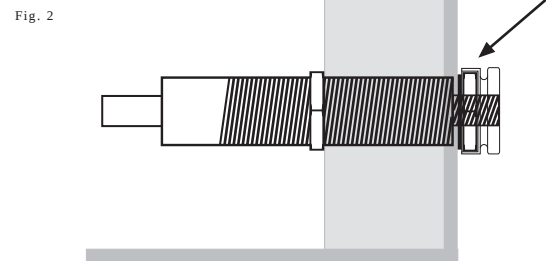
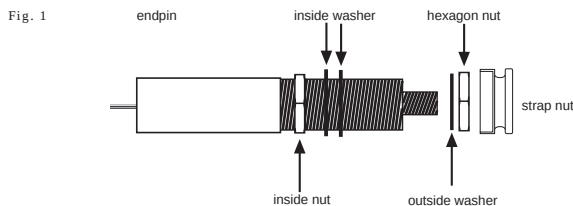
Thank you for choosing a Sonic preamplifier system from Shadow. Shadow's soundhole fitted preamps for acoustic and classical guitars are designed for sonic clarity, ease of installation and preservation of your instrument. Shadow's Sonic series includes four different products. All Sonic products are equipped with Nanoflex undersaddle pickup and/or NanoMAG pickup for the fingerboard. The soundhole fitted preamp eliminates cut of big holes in the guitar. In order to get the most out of your new pickup system, we recommend you to read the installation instruction and the owner's manual.

Installation:

For all products of Shadow's Sonic series you should start with the endpin installation, followed by the Nanoflex and/or NanoMAG pickup installation and finished with the fitting of the preamp. The system is powered by two 3V cell batteries (Sonic Basic uses one battery only) and it turns on automatically as soon as the guitar cable is plugged in into the endpin. The battery LED lights on 30 minutes before need to be replaced.

1. Endpin Installation:

Take off the strings, remove original strap nut and increase hole up to 12,5mm diameter. Remove endpin strap nut, hexagon nut and washer from the endpin (Fig. 1). Mount the endpin as shown on Fig. 2. Adjust the inside nut so that the larger threads end just below the surface of the instrument (Fig. 2, arrow). Put the washer from the outside on the endpin jack, tighten the hexagon nut with 12mm wrench and screw endpin strap nut on.

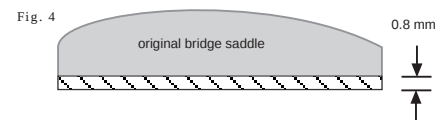
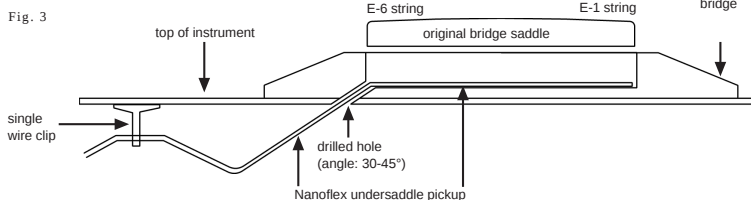


2. NanoMAG Installation (at Sonic Doubleplay and Sonic NanoMAG):

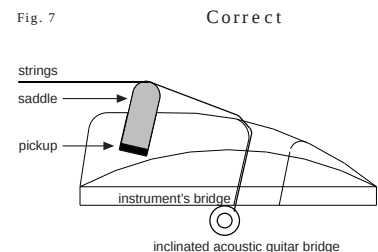
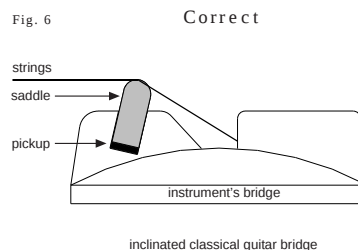
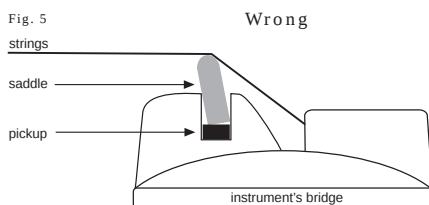
Remove the protective foil and press NanoMAG pickup to the end of your fingerboard. Make sure the pickup sits parallel to your frets and touches the guitar's top.

3. Nanoflex Installation:

Take off the original saddle and drill a 3.1mm diameter hole in the corner of the saddle slot at the bass string side (see Fig.3). The hole has to be drilled in an angle of 30°-45°. Check your bracing before drilling the hole to avoid a damage of it. Clean up the saddle slot and eliminate the wood dust and chips. Push the pickup cable through the hole in the bridge and place the pickup into the bridge slot showing "NFX top" up towards the saddle. To accommodate the height of the original bridge reduce the height of the saddle (Fig. 4). Pay attention, that the bottom side has to be absolutely flat.



Insert the saddle and secure it temporarily with a piece of tape. Use the single wire clip to secure the wire from the pickup to the underside of the top and secure the cable into it (Fig. 3). Failing to secure the wire may produce bizarre audio consequences. Place the double cable holder to the side of the guitar and secure the endpin cable and the pickup cable into it.



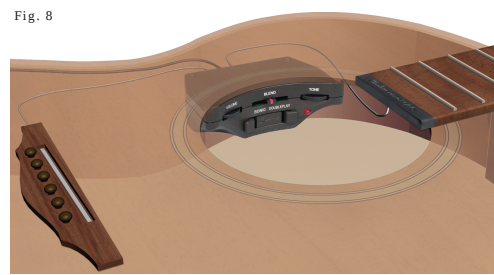
4. Soundhole Fitted Preamplifier Installation:

Carefully sand with a fine sandpaper the interior side of your guitar's top where the preamp will be placed. Afterwards clean up this area and eliminate the wood dust. Place the preamp for testing purposes to the place it fits your guitar best. Before you fix the preamp measure the height of the top bracing if the amount of adhesive tape is sufficient. If the braces are too high you should apply adhesive stickers on the top of the stickers fixed on the preamp.

Connect the pickup(s) and endpin cable, remove protective foil from the preamp sticker and press the preamp to the top. Mount the strings and tune your instrument. Make sure the strings do not pull the bridge saddle forward in neck direction (Fig. 5, 6 & 7).

You can fix your preamp into the guitar permanently by using the adhesive sticker already applied to the preamp. If you want to take the preamp off from time to time use included velcro stickers. Velcro stickers have to be glued on the top of the permanent mount stickers. After gluing to the top (Fig. 8) do not remove the preamp for at least 12 hours to achieve the bond with the wood. Connect the endpin with a regular guitar cable to an amplifier.

The battery turns automatically on, as soon as you plug the instrument cable into the endpin. To spare the battery life, take the cable out, when not used.



Potentiometers:

Volume Control:

The volume potentiometer controls the overall output signal. Turn it clockwise to raise and anticlockwise to reduce the volume.

Blend Control:

The heart of Sonic Doubleplay is its blend control. With the blend control you can mix the Nanoflex pickup in the bridge and the magnetic NanoMAG at the fingerboard. This gives you an incredible range of different sounds and colours for your individual playing.

Tone Control:

The tone potentiometer controls the overall sound colour. It functions as a bass and treble control simultaneously. If you turn it anticlockwise you add clear and transparent trebles, without cutting bass frequencies. Turning it clockwise you will create a warm bass sound.

Phase Invert Switch:

The phase invert switch will invert the signal and cancels the overall feedback.

Battery LED:

The LED will turn on when the battery power is low and batteries should be replaced within 30 minutes.

Battery Compartment:

All Sonic products use environmentally friendly and long-lasting 3 volt coin-type batteries (# 2032). To exchange the batteries push the left and right clip gently together and pull out the battery holder. The plus side of the battery faces towards the preamp's top.

Treble Control:

This controls the amount of treble or "highs". Turn it clockwise to raise and anticlockwise to reduce the trebles.

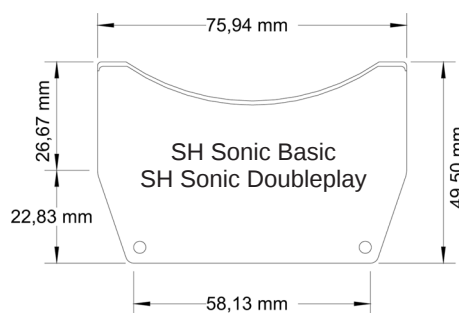
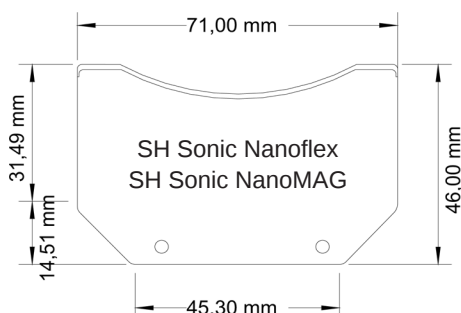
Bass Control:

This controls the amount of bass or "lows". Turn it clockwise to raise and anticlockwise to reduce the bass.

Technical Specifications:

	SH Sonic Doubleplay	SH Sonic Nanoflex	SH Sonic NanoMAG	SH Sonic Basic
Pickup	Nanoflex & NanoMAG	Nanoflex	NanoMAG	Nanoflex
Battery Power	2 x 3 Volt (# 2032)	2 x 3 Volt (# 2032)	2 x 3 Volt (# 2032)	1 x 3 Volt (# 2032)
Battery Usage	1,2 mA; approx. 180 hrs.	0,8 mA; approx. 250 hrs.	0,8 mA; approx. 250 hrs.	0,25 mA; approx. 1000 hrs.
Frequency Range	20 Hz - 30 kHz	20 Hz - 30 kHz	20 Hz - 20 kHz	20 Hz - 30 kHz
Output Impedance	600 Ohm	600 Ohm	600 Ohm	600 Ohm

Dimensions:



NANO flex

Nanoflex pickups do not only take the vibrations of the strings like common undersaddle pickups. Nanoflex senses the vibrations of the strings AND the body of the instrument simultaneously. This gives the equivalent of having a microphone mixed with an undersaddle pickup. No other technology gives you this high level of sound reproduction.

NANO MAG

NanoMAG is the only pickup of its kind on the market which provides an acoustic sound, but also can produce the sweet blues or jazz sound. The pickup is protected by an epoxy layer and the silver-platinum shielding will provide together with active electronics a low impedance hum-free output signal. It is very resistant to feedback and has an incredible dynamic in all positions.