

Installation manual for

- **Endpin Socket** *Mono or Stereo, w. integrated switch*
- **NanoFlex** *Monophonic pickup*
- **NanoFlex 6** *Hexaphonic pickup*
- **PanaFlex** *Stereo panoramic pickup*

Introduction

Thank you and congratulations for choosing a Shadow pickup system. Shadow preamps are known for the most reliable, user-friendly and best sounding products on the market. As a result of an enormous research and development effort over three years, Shadow releases a revolutionary pickup system. The hexaphonic pickup Nanoflex-6 unites six Nanoflex pickups in one – one for each string.

Pickup Variants

We offer flexible pickups with different features. Pay attention to choose the correct one to be mounted in the guitar. We have the monophonic (standard) pickup in two different widths: 2.3mm and 2.8mm depends on how is the bridge slot.

Note: Almost all new guitars are using 2.3mm. NanoFlex 6 and PanaFlex pickups are available in 2.3mm width only.

If you are using a **NanoFlex 6** or a **PanaFlex**: Before you install the pickup: Check the correct string spacing!

- 11.8mm for classical guitars with nylon strings. (Needed for some baritone-guitars too!)
- 11.0mm for acoustical guitars with steel strings.

△ *If you are not sure if you can install it by yourself, we suggest contacting a luthier in your area!*

△ *Damaged pickups or other parts which were damaged by mishandling are out of the warranty.*

Endpin Installation

Take off the strings and 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. Pay attention on the washer! Adjust the inside nut so that the larger threads end just below the surface of the instrument (Fig.2, arrow). Put a small screwdriver or similar in the two side holes of the endpin socket to lock it during screwing the hexagon nut.

Put the washer from the outside on the endpin jack and tighten the hexagon nut with 12mm wrench and screw endpin strap nut on.

Laying the cable in that way that it may not produce noise during vibration!

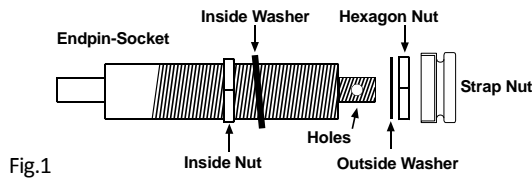


Fig.1

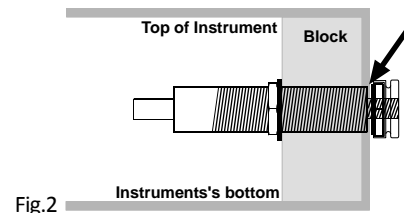


Fig.2

Pickup Installation

Remove the original saddle and drill a 3.1mm diameter hole in the corner of the saddle slot at the bass string side (Fig.3 D).

The hole has to be drilled in an angle of 30°-45°. Check your bracing before drilling the hole to avoid damage.

Clean up the saddle slot and eliminate the wood dust and chips. Lead the NFX pickup through the hole in the bridge and place it into the bridge slot showing "NFX top" up towards the saddle.

Fig.3: To accommodate the height of the original bridge reduce the height of the saddle. The thickness of the Nanoflex is around 0.8mm. Important: The bottom side has to be absolutely flat! Insert the saddle and secure it temporarily with a piece of tape.

Fig.4: Use the single wire clip (if supplied) to secure the wire from the pickup to the underside of the top and secure the cable into it. Failing to secure the wire may produce feedback and other bizarre audio consequences.

Also fix this area to avoid noise or feedback. You may use adhesive material to fix it. Connect the 3-pin cable of the pickup and the 4-pin cable from the endpin to the bottom of the preamp.

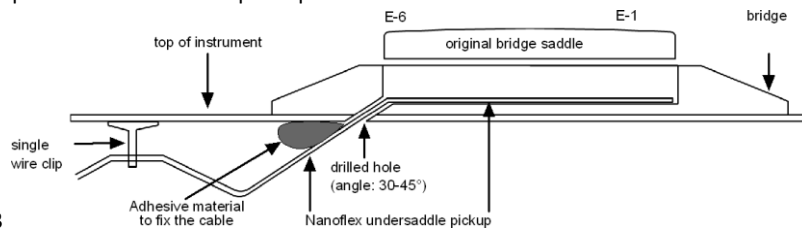


Fig.3

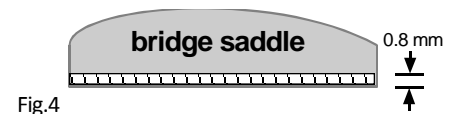


Fig.4

Fig.5: During reassembling the strings, pay attention to the saddle! If needed press it back to the correct upright position. See Fig.6. Otherwise it is easy to cause feedback!

Fig.7: Perfect bridges are using an inclination of around 13° to 15°. This is best for the sound quality, because the string vibrations are transferred perfect to the pickup.

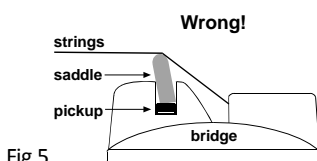


Fig.5

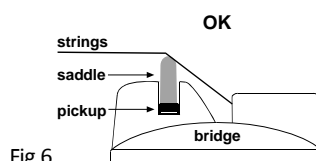


Fig.6

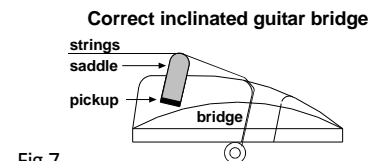
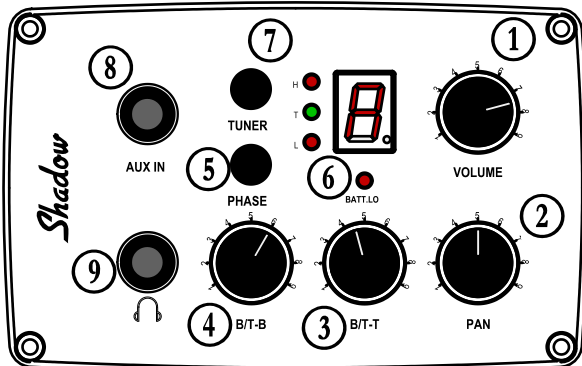


Fig.7

- SH 4035 A Stereo PanaFlex Preamp for Acoustic Guitars
- SH 4035 C Stereo PanaFlex Preamp for Classic Guitars

Introduction

Thank you and congratulations for choosing a Shadow pickup system. Shadow pickups and preamps are known for being the most reliable, user-friendly and best sounding products on the market. As result of research and development efforts over many years, Shadow is pleased to announce our revolutionary new stereo pickup system. The stereo PanaFlex pickup combines six small NanoFlex pickups with stereo and headphone outputs. The SH 4035 A/C also features an 1/8" Aux-in jack that allows you to play along with tracks from your music device. You can route the signal to your headphones, an amp or a mixer. Please read this manual carefully. If you still have questions you can contact our online support.



1. **VOLUME Control**
2. **PAN Control**
3. **BT-T combined Bass/Treble EQ-Control for high strings (GBE)**
4. **BT-B combined Bass/Treble EQ-Control for low strings (EAD)**
5. **PHASE Switch**
6. **BATT.LOW Indicator**
7. **TUNER Switch, Display and LEDs**
8. **AUX IN to connect stereo CD or MP3 Player**
9. **HEADPHONES Output to connect your stereo Headphones**

Bottom: Sockets for
 Battery-Pouch for 2x 1.5V AAA Batteries (Type: e.g. LR03) (2-Pin)
 Stereo PanaFlex Pickup (3-Pin)
 Stereo Endpin-Cable (4-Pin)

Installation

Note: First install the pickup and the endpin-socket. The Installation instructions for the pickup and endpin-socket are provided in separate documents. After you install the pickup and endpin you are ready to find the right position for the battery-pouch. A good position that won't affect your sound is in the body of the guitar near or on the neck block. To install the preamp, mill or saw the cutout in the rib. Size: SH 4035: 67x41 [mm]. Check the dimensions carefully before you start to cut!

Batteries*

The battery engages as soon as you plug the instrument cable into the endpin. To spare the battery life, take the cable out, when not in use. If you don't plan to use the unit for a longer period remove the batteries to prevent leakage.

Fresh batteries will last up to ~400 hours when used under normal conditions. (Tuner = Off, without Headphone).

*Notes of battery disposal:

For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste!

There is a separate collection system for used batteries, to allow recycling and proper treatment in accordance with legislation.

For other countries: The used battery is to be returned to the selling point. Or contact your local authority for correct method of disposal of used batteries.

Operation

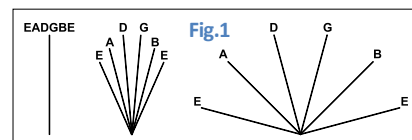
(1) VOLUME Control

This control adjusts the overall volume. Normal operation should be between position 6 and 8.

(2) PAN Control

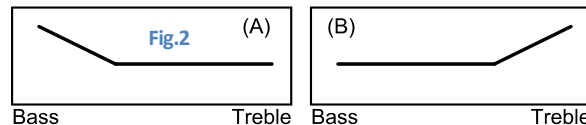
For this unique sound, simply connect your guitar by way of a standard stereo Y-cable to the mixing board. Adjust the pan knobs for the two mixer inputs to the left and right. Turning the PAN control clockwise separates the output of the strings of your instrument. This brings about a tonal depth that has not been possible until now.

Fig.1 shows the amount of the left and right signal controlled by the PAN control



(3) BT-T CONTROL

The BT-T Control is used to control the tone for the lower treble strings [G-B-E]. It works like a bass/treble rocker: Middle position: Flat sound. Fig.2: If you turn the pot away from the center positions either bass or treble increases. If bass is increasing (A) the treble will stay flat! Likewise, if you increase treble (B): Bass will stay flat



(4) BT-B CONTROL:

The BT-B Control has the same function as BT-T control but controls the sound for the upper strings [E-A-D]

(5) PHASE Switch

Depending on the environment some feedback may occur. This has a physical property and depends on the position between your instrument and speaker. A good method to lower the risk of feedback is to turn the phase by 180° to change the physical conditions. Very often it helps, but sometimes it will support the feedback or just change the frequency of the feedback. If the phase switch doesn't work, try to moving from your current position.

(6) BATT.LO LED

The voltage of the battery is constantly being measured. When the LED lights up, it's time to change your batteries.

(7) TUNER Switch

Press the switch to start the tuner operation. This mutes the analog output. The display shows the note played and both LEDs "H" or "L" showing how close it is to the correct pitch. If you reached the final pitch the LED "T" lights up. Press the switch again, to end the tuner operation. If the tuner is not in use (no input signal) for ~90 sec. the display will be switched off to save battery energy. This is shown by the flashing "L" LED.

(8) AUX IN

Connect your stereo CD or MP3 player. This is perfect for practicing or playing along with your music.

(9) HEADPHONES

To connect your stereo headphones.