



Understanding the Taylor Expression System®



Your new Taylor guitar features the Taylor Expression System® (ES) — a groundbreaking concept in acoustic guitar amplification. It combines a state-of-the-art pickup system with a “professional audio”-quality preamp. Taylor Guitars developed proprietary sensing technology for the ES, utilizing the guitar’s entire soundboard to create a network of magnetic, surface-sensing microphones. Two strategically-placed Dynamic Body Sensors™ capture vibrations in the top of the guitar. A patented Dynamic String Sensor™ mounted beneath the fretboard measures string vibrations and converts them into an electronic signal. The advanced design is seamlessly integrated into your guitar, allowing for total control with three unobtrusive, side-mounted knobs. Your guitar’s natural tone will sing loud, clear and true.

Read on to learn more about the ES, recommended connections, control settings, and battery usage.

Connections

The 2007 Taylor ES is designed to be plugged-in using a standard quarter-inch guitar cable, which will work in every circumstance: with an acoustic guitar amplifier, a standard direct box, or any other guitar-ready application. The ES also is designed to

be “Pro Ready,” which means it can be plugged directly into a “balanced line level input” such as an input on a mixer using a TRS to XLR cable. The result is a higher signal level, which translates into the ability to drive long cable distances without any frequency loss, due to the low impedance of the system. With this application, you can plug directly into a stage snake or recording/mixing console without the use of a direct box.

Tone Controls

Three knobs allow for simple, accurate control of your guitar’s amplified tone. Using the knobs to adjust the bass, treble and volume will give you the ability to shape your tone considerably. We encourage you to experiment with different control settings.

Control Arrangement

Volume: closest to front of guitar
 Treble: center position
 Bass: closest to back of guitar

All three controls on the ES are designed to indicate a center position, commonly known as a detent. By rotating each knob back and forth, you should feel a small “bump” at the center marker. For bass and treble, the center position indicates the “off” or “flat” mode. The center point of the volume knob indicates half of the highest volume output.

Plugging In

Follow these simple steps to set the proper volume and tone levels for your Taylor ES:

- 1) Start Position: Turn all three controls on the guitar to the center detent position. In this position the Bass and Treble are flat and the Volume is at the midway point.
- 2) Turn the volume knob on your amplifier or mixer all the way down. Plug in the guitar.
- 3) Set the tone controls on your amplifier or mixer to flat or a neutral position. *NOTE: Some acoustic guitar amplifiers do not have*

active EQ (tone controls). In that instance, finding a neutral tone spot can be a bit more challenging but is not impossible. Setting all the tone controls on the same number is a good place to start.

- 4) Slowly raise the mixer or amplifier volume level to a comfortable level, then adjust the tone controls on your guitar to suit your personal taste.



L-R: Standard quarter-inch TRS cords (straight and right angle); XLR (male) connector.

Battery Usage

The 2007 ES requires one 9-volt battery. Taylor uses and recommends Duracell® for optimal performance and long life. A new battery will provide 40-50 hours of plugged-in use. The ES conserves battery life using a standard, automatic on/off system. The ES is in an “off” state until a cable is inserted, which activates the preamp. Removing the cable will

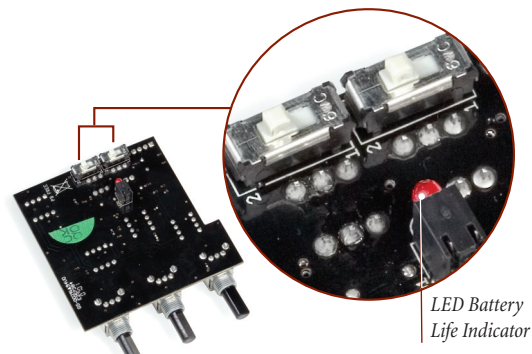
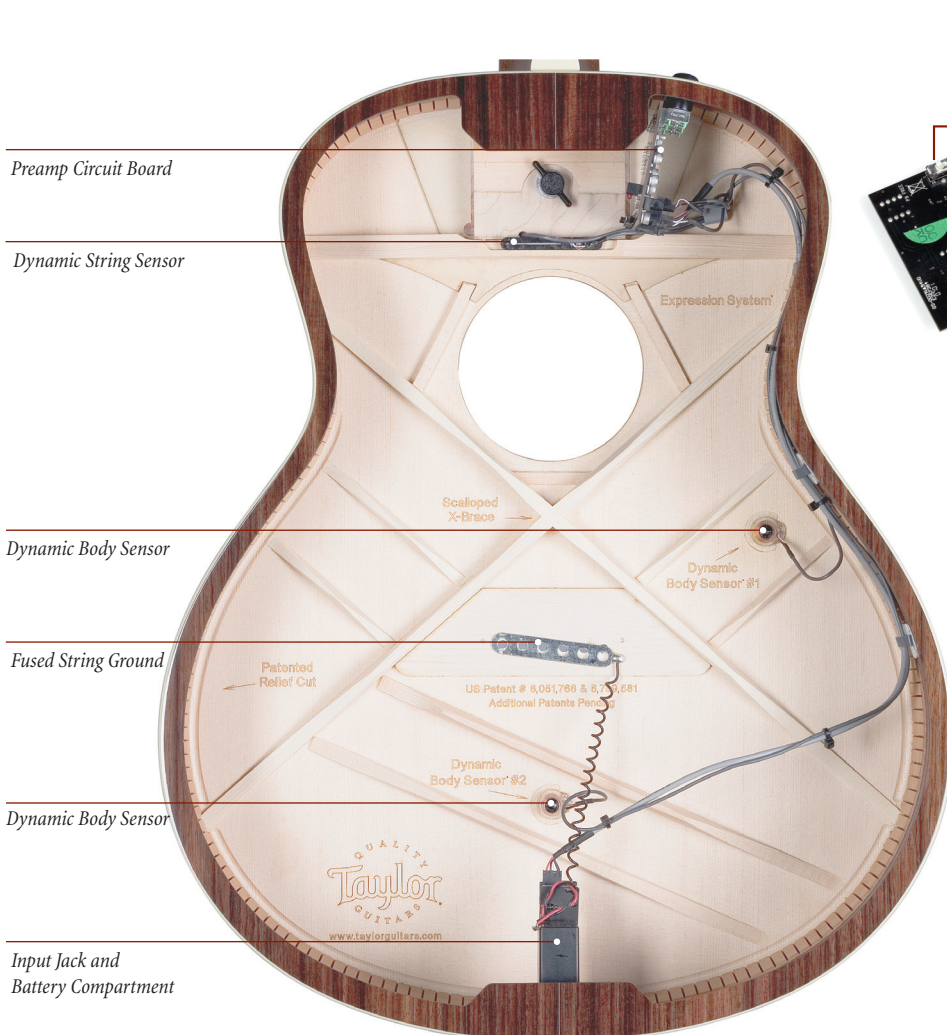


return the system to the “off” mode and conserve battery life. An LED battery life indicator is located inside the soundhole on the preamp circuit board. (If your amplified tone begins to sound distorted, the battery most likely needs to be replaced.)

To change the battery, release the clip on the battery carriage (located along the tail line) by pushing it toward the input jack. Remove the battery and replace with a new one, paying close attention to the positive/negative orientation shown inside the carriage.

TIP: Batteries can leak if left unused for long periods of time. When you replace the battery, write the date on it with a permanent marker to track how long the battery has been in the guitar.

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Individual body sensor switches are located on the preamp circuit board and accessible through the soundhole. (Shown above in the "on" position.)

adjusting the volume. By turning both the bass and treble up, the midrange is effectively dipped; turning them below the center detent boosts the mids.

Pickup Sensor Flexibility

The 2007 Taylor ES gives you the ability to voice the guitar differently for various performance applications (different types of venues, band configurations, etc.). By turning off one or both of the body sensors, you can create different voicings for different levels of sensitivity and tone. Switching off both body sensors allows you to play solely on the neck pickup if desire.

The two body sensor switches are easily accessible inside the soundhole, on the edge of the preamp circuit board. When the switches are positioned toward the back of the guitar, the sensors are on. Moving them toward the front of the guitar turns them off.

Fused String Ground Protection (Patent pending)

Each 2007 ES-equipped Taylor also includes a fused string ground. This was designed as an extra safety precaution to protect the player from occasions of improper electrical ground, which in rare instances has shocked performers with the infamous "blue spark" when they step up to a microphone. A grounding plate affixed to the underside of the bridge plate is wired to a fuse, which removes the player from the circuit path in the event of a dangerous current seeking ground. If this occurs, the fuse will blow, but the player will remain unharmed. While the ES electronics will continue to work with a blown fuse, the strings would no longer be grounded and the guitar would be more susceptible to an electrical hum. A blown fuse can be replaced by an authorized Taylor repair technician.

Unique Expression System Features

The 2007 Expression System has several distinctive features that will give you increased performance control.

Feedback Resistance

The heart of the ES is a series of three proprietary magnetic pickups. Two of the pickups (body sensors) are affixed to the underside of the soundboard and can best be described as surface-mounted microphones. The ES is not, however, subject to the usual feedback problems you might encounter when playing into a microphone. The system is uniquely suited to work at high sound pressure levels (SPLs), resisting feedback

even at high volume levels. If you are accustomed to using a soundhole plug to prevent feedback, it should not be necessary to use one with the ES.

Tone-shaping Control

The ES opens up new frontiers in sound, and will enable you to create a wide range of tones using simple adjustments of the onboard controls. The built-in equalizer reacts to subtle changes in bass, treble and volume, emphasizing individual characteristics of the guitar's natural sound.

NOTE: The absence of a midrange control knob does not mean there is no mid-band control. It's easy to boost or cut the mids simply by turning the Bass and Treble knobs past the center detent in either direction, then

