

# Atmosfeel Part 1



In this article, we introduce the Atmosfeel™ Pickup system, which is featured in select Yamaha acoustic guitars. We'll examine its design, practical applications, and the value it provides to players.

**What is Atmosfeel?** | Our proprietary 3-way pickup system designed to capture the full character of an acoustic guitar with natural clarity.

## Three pickups capture the acoustic sound

The Atmosfeel system consists of three pickups

### 1 Under-saddle pickup

Captures string vibrations to reproduce rich, deep tones in the mid-to-low frequency range.



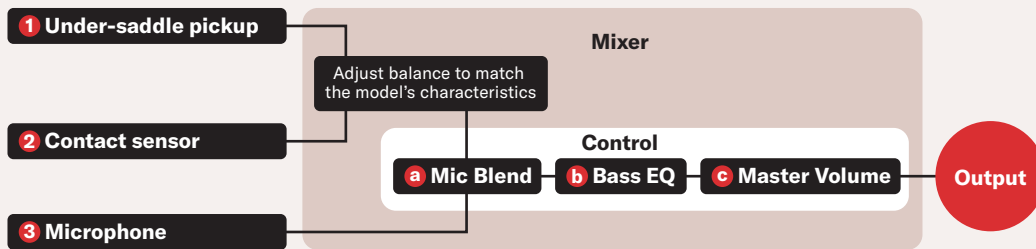
### 2 Contact sensor

Captures the top vibrations to reproduce even the most delicate nuances and shimmers in the high frequency range.

### 3 Microphone

Captures the air vibrations inside the body, reproducing the guitar's midrange warmth and resonance.

The signals from the three pickups are routed to the internal mixer, as shown in the diagram below. The side-mounted controls allow players to adjust the blend to their preference.



Models equipped with Atmosfeel

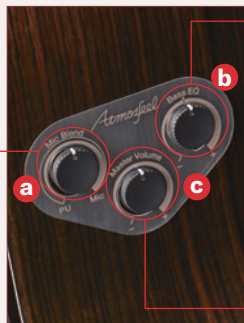
- FG9 RX/MX
- FGX5
- FGX3
- NCX5
- NCX3
- NCX3C
- FS9 RX/MX
- FSX5
- FSX3
- NTX5
- NTX3

## Tone shaping tailored for any performance setting

The three side-mounted controls allow precise adjustment of your sound for any performance scenario

### a Mic Blend

Adjusts the microphone output to control spatial depth. In smaller venues with limited natural reverb, adding depth creates a richer, more dimensional sound. On larger stages with significant ambient reverb, reducing the depth produces a more natural acoustic presentation.



### b Bass EQ (Treble EQ for nylon-string guitars)

Adjusts low-frequency output. In ensemble settings with other bass-supporting instruments, only subtle adjustments are recommended. When performing solo, boosting the bass adds power and depth. For nylon-string guitars, a Treble EQ replaces the Bass EQ, allowing fine tuning of higher frequencies, and enhancing the subtle nuances of fingertip articulation.

### c Master Volume

Adjusts the overall output level.

## The value Atmosfeel delivers

### Preserving natural acoustic tone, even through amplification

Traditional acoustic guitars often lose their natural tone when amplified, because conventional pickups cannot fully capture the intricate elements of sound, such as string vibration, top-plate resonance, and the guitar body's internal air movement.

For players who practice unplugged but plug in on stage, this gap can make it difficult to achieve their intended expression and feel. To address this, Yamaha developed Atmosfeel.

Atmosfeel captures every nuance of an acoustic guitar's sound and faithfully delivers it.

With Atmosfeel, players can perform with the same natural feel and expression, whether unplugged or amplified.

