Symptoms of a Wet Guitar

Extended exposure to high humidity can lead to guitar damage. Here’s what to look for and how to prevent it.

While much of our energy is devoted to preventing guitars from drying out, it is also possible for guitars to become too wet. Usually, a guitar becomes over-humidified when it has been exposed to the elements for a period of several weeks in an area where the humidity is very high (80 to 90 percent), or for several months where the humidity is medium-high (60 to 70 percent). In some cases, guitar bodies are over-humidified by well-meaning owners who, in an effort to prevent their guitars from drying, have gotten carried away with soundhole humidifiers.

While high humidity usually will not crack the wood the way low humidity can, the adverse effects can be just as damaging and sometimes can be more costly to repair. The wood in a guitar can swell tremendously, causing glue joints to fail, finish to lift, and neck angles to go bad. Distortions in the wood can remain even after other damage has been repaired, leaving the guitar cosmetically disfigured. Read the Tech Sheet, “Symptoms of a Dry Guitar,” to gain an understanding of our wood-drying process, the climate control of our factory, and how relative humidity affects wood.

We do not expect guitar owners to become meteorologists, or to walk on eggshells concerning the safety of their guitars. But by becoming familiar both with the principles of humidity and with how a normal guitar looks and feels, an owner can prevent almost all damage to a guitar. Basic precautions include: keeping the guitar in its case when not in use; keeping it out of direct sunlight and extremes in heat, cold, and high or low humidity; and regularly checking for any significant changes.

Examine these photographs of an extremely “wet” guitar that came to us from a dealer in Asia. During a very wet and rainy season, this guitar remained on the store wall, where it absorbed moisture from the air. When the dealer returned it to us for repair, it weighed in at 2,431 grams. After drying it and then letting it normalize naturally to the 47 percent relative humidity in our factory (which restored the guitar to its original moisture content), the guitar weighed 2,383 grams. This was a loss of 48 grams of water, or 1.34 ounces — enough to saturate four large, highly absorbent paper towels!
Symptoms to look for:
1. High action. Strings that are unusually high off the fretboard, making it difficult to play.
3. Unusually swollen top. See Photo 2.
4. Unusual warp on the top, back or both at the end-block. See Photos 1 and 2.
5. Improper neck angle. Sighting the neck to the bridge, the frets will appear to hit below the bridge. See Photo 6.

NOTE: All guitars will have a certain amount of “pull” behind the bridge. This alone is not an indication of a wet guitar. Look for a combination of these symptoms to determine if the guitar is getting too humid.

In wet areas, prevention is best:
1. Periodically remove the guitar and blow-dry the interior of the case with a hair dryer for 10-15 minutes.
2. Use a small de-humidifier in the room where you store your guitar. It’s also wise to monitor the humidity levels with a digital hygrometer. Radio Shack offers these.
3. Place several silica gel packs in the guitar case and change them every few months.
4. Consider using the Planet Waves Humidipak® (available through TaylorWare). Featuring two-way humidity control technology, the breathable membrane packets will automatically maintain a relative humidity level of 48 percent by absorbing excess moisture in humid environments.

A note on Taylor laminate guitars:
The Taylor 100 Series, 200 Series, Baby Taylor and Big Baby models feature a laminate back and sides with an arched back. The arch is by design and allows us to add strength to the guitar body without bracing the back. Don’t be alarmed by the sight of the back arch on these models.