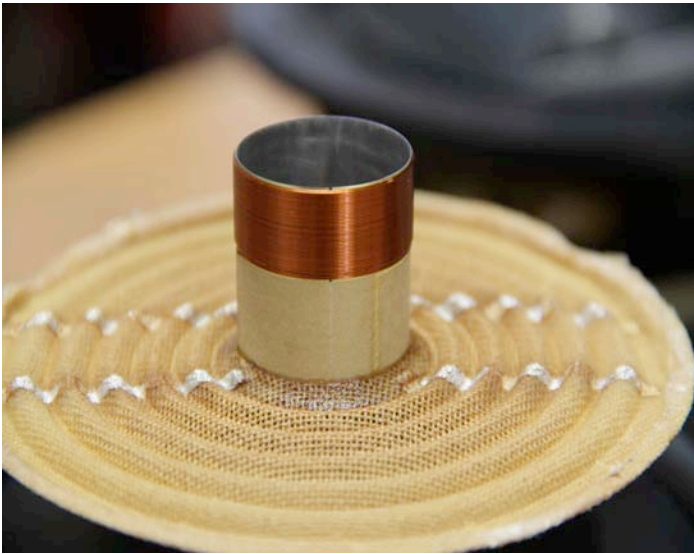


# **Biketronics Inc.**

## **Tech Brief: How To Prevent Speaker Damage**



*Healthy Speaker Voice Coil*



*Damaged Speaker Voice Coil*

It's easy to protect damage like this from happening to your speakers. Damage occurs to voice coils when the speaker is played past its **max volume** for a long period of time.

Motorcycle audio is one of the most demanding environments for audio equipment. With the amount of wind and engine noise, it is difficult to hear if a speaker is being played past its **max volume** while on the road.

To protect your speaker, simply find the **max volume** your speaker can play while your bike is at rest.

### **How to find your max volume for any radio, amplifier, equalization (EQ) and speaker:**

1. Use an "aggressive" song on your loudest source. Choose a song with plenty of bass.
2. Start bike on jiffy stand. Amplifiers and radios make more power with engine running.
3. Turn volume up until system distorts.

Distortion is when clarity begins to decrease. It can also sound like a wet towel being snapped, and is the speaker's way of telling you it's being strained. Note the volume level at which distortion begins. This is your **max volume**.

For the given EQ and equipment, don't go beyond your **max volume**. Different EQ's may have different **max volume**. For example, use more bass with less volume around town, but less bass with more volume on the interstate.

Respect your **max volume** and you will likely never blow a speaker or other component. Enjoy your system and peace of mind.

**Contact Biketronics for more information**  
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