

The pitches generally don't have to specifically fit the key of the tune you are recording, although in some cases, like when a tom groove is used prominently in the song, it can be



critical that you tune the pitches of the toms to the key of the song. Again, make sure there is *even* tension on each drumhead.

A common mistake I see from most inexperienced drummers is not tuning the pitch of the bottom head relatively close to the top head. Many times the bottom head is so low in pitch that the drum fails to resonate well enough to produce a good sound. If a drum is ringing too much, try slowly raising the pitch of the bottom head closer to that of the top head; this will start to choke the resonance of the drum, reducing the ring. Be careful—if you get the pitches *too* close it will choke all the resonance out of the drum.

Damping

You can reduce unwanted ring with various materials placed on the head of a tom or snare drum. There are many different products that work great, such as silicon patches, duct tape, gaffer's tape and the Evans Sound Control. The sound-damping material is usually placed on the batter head and close to the rim to avoid being hit by the drumstick. I always try to put on just enough material to accomplish the job. If it takes too much to stop bad ringing, remove the material from the head and check your tuning. You should be able to get very close to the right sound without using any sound control material.

The snare

If you have a choice of snare drums for your session, this will be an important decision. The snare and the bass drum are the drums that will be played the majority of the time throughout most songs. Snare drums come in many depths and sizes. In general, the smaller the drum the thinner the sound. As with toms, the wood materials produce relatively the same sorts of sound differences. Metal snare drums produce a more metallic sound and tend to ring more.

The tuning of a snare drum sometimes depends on the technique of the drummer. Some drummers hit the drumhead and the rim of the snare drum at the same time, which produces a very pronounced attack and more ring. You might need to tune the pitch of the snare batter head somewhat higher for a drummer who only strikes the batter head and not the rim. I tighten my snare heads pretty tight and use both techniques on my snare drum depending on the situation.

The tension of the snare strainer will also change the sound of the drum. If the snare strainer is really tight it will choke the resonance of the drum, making it flat-sounding. Some songs require a loose sounding snare strainer (Ballads, some R&B and Pop tunes) and some require a tighter snare strainer (Funk, Techno).

The kick

A great kick-drum sound depends on what is striking it as well as the head itself. I have been using a Powerstroke drumhead manufactured by Yamaha on the batter side and a Remo Emperor on the front side, with a 5-inch diameter hole cut in it. Most of the time the drum should be tuned about as low as possible. In general I find that creating a specific pitch in a kick drum doesn't work.

Most applications require a mostly deadened kick drum. I've seen various materials used to reduce the ring in a kick drum, such as pillows, blankets, and sound-control pads made by drum companies. Find the one that works right for the material being recorded.

The beater used on the kick drum pedal will affect the attack greatly. A hard kick drumbeater made of wood or plastic will create a lot of attack so you don't have to try and eq attack into the kick drum. There are Kevlar pads you can add to the batter head at the spot where the bass drum beater hits the head that will add more attack.

Having more knowledge about the instrument you are recording will help you understand how to achieve the sound you are looking for. For drum tracking sessions I always have at the ready various sizes of new coated Emperor batter heads, a few different-sized Powerstroke bass drum heads, sound control material, and—of course—a drum key!

Pat Bautz is a session drummer and recording engineer who does remote drum sessions for clients requiring quality live drum tracks. You can learn more about this service at **www.realdrumstudio.com**.



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