

# **Editing, Equalization, and Compression Tips**

## **Editing for Timing Issues**

- List to each separate take for each track. Pick the best one and use it going forward.
- Determine exact time (mm:ss) where timing issues occur. Compare to original scratch, click, or
  percussion tracks. Note1 Timing doesn't need to be perfect versus click, but each track needs to
  generally line up versus the other performance tracks. Note2 People are very sensitive to audible
  timing issues. The finished product will not sound "professional" if these are not addressed.
- Cut and paste either phrases or quiet passages to adjust timing. Do not delete anything from tracks. Save track as a new file name before editing. If no useable tracks are available, consider looping an acceptable section of a track, and then using that throughout the song.

## **Editing for Performance Issues**

- Determine exact time (mm:ss) where other performance issues, such as pitch, wrong notes, extra noises, etc, occur.
- Find a better instance of the same phrase in the same track, or from a different take.
- Determine the exact length of the phrase. Make sure timeline snapping (fine) is turned on. Note –
   Bars and Beats time format usually works the best, but mm:ss can also work.
- Highlight the good phrase (exact length), hit Copy, then highlight the same length over the bad phrase and hit Paste.

#### **Equalization**

- Think of each track as having its own real estate in the frequency range, with a sweet spot that it
  owns. Emphasize that frequency on the track, and deemphasize that frequency range on the other
  tracks
- Kick drum and Bass exclusively own the region from 100 Hz down. Put a High Pass filter on all other tracks with a frequency somewhere between 100 and 200 Hz. Move the frequency up until the track starts sounding thin, and then back off a little.
- Put a low pass filter on Kick Drum and Bass with a frequency between 3kHz and 10kHz.
- Find problem and sweet frequencies by sweeping a filter with a narrow Q and a large amount of boost or cut.
- Avoid boosting and limit to 2-3dB when boosting. Boost with a wide Q, generally cut with a narrow Q (surgical cuts).
- Use a compressor or dedicated deesser to address sibilance instead of EQ. Consider using tape saturation, tube distortion, or an exciter to add presence/air instead of EQ.
- Use available frequency analysis tools to help with this process.
- Do not make any major EQ decisions with track solo'd. All major mixing decisions need to be made
  in the context of the full song. Note Making each track sound great solo'd will result in a poor
  sounding song.
- Treat instrument solos like vocals.
- Check phase on drum tracks by reversing phase on each track to see which has best bass response.
- Use "Track Starting Points" chart for guidance on initial EQ settings.



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40hz – kick fundamental	1200hz - body of the snare	6000hz - sizzle of the high
80hz - rumble of the bass	1400hz - meat of the vocal	hat
100hz - thump of the kick	1600hz - snap of the kick/	7000hz - sizzle of the
200hz - bottom of the guitar	attack on guitar	cymbals
250hz - warmth of the vocal	2500hz - wires and snap of	8000hz - top end of the kick
350hz - bang of the snare	snare	9000hz - brightness on snare
400hz - body of the bass	3000hz - presence of the	and cymbals
500hz - clang of the high hat	vocal	10000hz - brightness on
600hz - clang of the cymbals	4000hz - ring of ride	vocal
800hz - ping of ride cymbal	cymbal/top end of bass	12000hz - air on vocal
1000hz - meat of the guitar	guitar	14000hz - air on cymbals

# **Track Compression**

- Use a basic compressor on most tracks to tighten dynamics. Aim for 4-10dB of compression with 2-4dB of makeup gain. Start with attack and release settings of 10/100ms and 2/1 reduction. Use higher settings on tracks with a lot of low end (bass / kick, etc). Avoid any "Pumping" sound.
- Note Compression of 10dB will cut the dynamic range approximately in half. Adjust makeup gain
  so that the overall track volume does not change with the compressor on or off. Note We usually
  perceive louder as better, so use this approach when A/B'ing all effects and mix adjustments.
- Do not use compression on highly compressed instruments, such as distorted electric guitars.
- Bass can often benefit by using a multiband compressor.
- Vocals will sometimes need multiple levels of compression.
- Simulations of many analog devices, such as tape saturation, tubes, transformers, etc will also provide some compression.
- Post track compression will often be found on a group buss, main buss, and during the Mastering process. Leave dynamics in place to allow for this compression later on.
- Use "Track Starting Points" chart for guidance on initial Compression settings.