

EQ tips Cheat Sheet

by Frederic Villemin (fredv) via cheatography.com/50/cs/73/

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EQ Frequ	ency breakdown (1/2)	EQ Frequency breakdown (1/2) (cont)		EQ Frequency breakdown (2/2) (cont)		
<= 30Hz	Virtually undetectable, you can safely cut these frequencies	0.6- 3kHz	Provides presence, but are hard in nature. Good for rock.		Adding will give sparkle, shimmer, Hz bring out details. Cutting will	
40-60Hz	Sub bass Frequencies. "Feel" only	800Hz	Boost the bass guitar for punch. Cut the electric guitar to remove		smooth out harshness and darken the mix	
60- 200Hz	Add for tom "boom". Cut to decrease bass "boom"	2-	the "cheap" sound In this area you can emphasize		Boost to add "air" and clarity to acoustic instruments	
80Hz	Boost for the kick drum lower end to cut through the mix. Notch most other instruments here. Rolling off the electric guitar here is advisable	4kHz	the "smack" of the kick's beater	http://ww	w.soundgadget.net	
		2.5kHz	Good for adding to a dirty guitar for some real sizzle. Boost this area for bass guitar if using the pop/slap style	EQ Instrument breakdown		
				Vocals	presence (5 kHz), sibilance (7.5 - 10 kHz), boom (200 - 240	
80- 200Hz	Boost bass instruments for presence. Boost will add warmth and fullness to guitars, vocals and horns	2.5-	Boost for clarity with an acoustic		kHz), fullness (120 Hz)	
		5kHz	guitar and piano	Electric Guitar	fullness (240 Hz), bite (2.5 kHz),	
		EQ Freq	EQ Frequency breakdown (2/2)		air / sizzle (8 kHz) bottom (60 - 80 Hz), attack (700	
100Hz- 4kHz	Scooping/notching instruments here will provide room in the	3-7kHz	This is the area where vocal sibilance resides. Boost slightly to add sense of "volume" It also adds a harshness that is particularly fatiguing. Add warmth without loss of clarity by attenuating this region a bit	Bass Guitar	- 1000 Hz), string noise (2.5 kHz)	
<=120Hz	Mix Add for warmth. Too much will			Snare Drum	fatness (240 Hz), crispness (5 kHz)	
subwoofers. music such a bass guitar.	Top of the range for most			Kick Drum	bottom (60 - 80 Hz), slap (4 kHz)	
	subwoofers. Also the low end of music such as kick drums and bass guitar. Bottom end of acoustic guitar and piano. Add for warmth	4kHz	Boost vocal here for presence	Hi Hat & Cymbals	sizzle (7.5 - 10 kHz), clank (200 Hz)	
		4-9kHz	Brightness, presence, definition, sibilance, high frequency distortion	Toms	attack (5 kHz), fullness (120 - 240 Hz)	
120- 600Hz	Boost for strong vocal presence. Causes problems with vocal resonance and	4.5kHz	Extremely tiring to the ears, add a slight notch here	Acoustic Guitar	harshness / bite (2 kHz), boom (120 - 200 Hz), cut (7 - 10 kHz)	
		5kHz	Add a crisp, sharp "crack" to the snare. Also a good place to add some attack to the toms. Cut on background parts to make them sink in to the back a bit	EQ Helpful suggestions		
200Hz	Slight boost for depth. Cut to reduce muddiness. This is a good area to get the "gong" out			Embrace the idea of "notching", when in		
				doubt, cut instead of boosting.		
					truments to have their own "space"	
240Hz	of cymbals. Boost to fatten the snare. Boost acoustic guitars slightly to add fullness. Scoop vocal here if muddy. Notch filter here can	>=7kHz	Add for the sense of quality and accuracy for cymbals. Too much output will come off as lacking definition. Cut vocals to decrease sibilance	fight for it	quency spectrum; don't make them :.	
				Understand that instruments of the same		
				type can and will sound different, EQ accordingly.		
350-	add thump to a kick drum Cut to remove the "cardboard"	8-	Cut or Boost to adjust brightness	EQing WILL NOT save your mix; you can't EQ out bad sound. Cut frequencies below 90Hz for vocals,		
400Hz	sound of drums - Notch the bass guitar a little bit to reduce presence	12kHz	for cymbals and acoustic guitar			
				they add little to the mix except mud		



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EQ Helpful suggestions (cont)

Listen to 15 minutes of well mixed audio before any mixing session

Limit Stereo Width to 30% except special effects

Don't forget the noise gate

The old RIAA AES mechanical rule for vinyl was to cut at 47Hz and 12k, and some great recordings were made this way. Human perception at extreme highs and lows is not all that accurate or sensitive, and a little goes a long way

EQ Glossary					
Attenu- ation	the reduction of a signal level				
Band	range of frequencies				
Boost	selected frequency levels are amplified				
Cut	selected frequency are attenuated				
Presence	increasing causes the sounds of voices and such instruments seem more "present"				
Q	describes the shape of the EQ curve (higher Q = narrower range, lower Q = wider range)				
Sibilance	refers to the hissing "s","s- h","z", or "zh", sound of the human voice				
Warmth	sound where the bass and low mid frequencies have depth and where the high frequencies are smooth sounding opposed to aggressive or fatiguing				

Thanks to Tikmerd

http://www.homerecording.be/forum/t1166-

As well as dB Masters @

http://www.homerecordingconnection.com/news.php

?action=view_story&id=390

and

http://www.soundgadget.com



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